October 11, 2016

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

Dear Dr. Heavner,

The following are the results associated with Frontier Analytical Laboratory project number **10147**. This project corresponds to your **LDW ENR/AC Pilot Study** project. Seventeen sediment samples were received on 9/15/2016 at Frontier Analytical Laboratory. Per your e-mail request dated 9/15/2016, samples 10147-004-SA, 10147-005-SA, 10147-009-SA, 10147-010-SA and 10147-014-SA (Floyd Snider Sample ID's: LDW-BA-SC-ENR+AC-CD-CORE, LDW-BA-SC-ENR+AC-CE-CORE, LDW-BA-SC-ENR-CD-CORE, LDW-BA-SC-ENR-CE-CORE and LDW-BA-IN-ENR+AC-CD-CORE respectively) were placed on hold. The remaining twelve samples were extracted and analyzed following EPA Method 1668C for all 209 polychlorinated biphenyls (PCBs). The total PCB concentration is listed in the upper right hand corner of the first data page (Page 1 of 3) of each EPA Method 1668C sample. A turnaround time of fifteen business days was requested for project **10147**.

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, your e-mail dated 9/15/2016, our sample login form and the sample photos. The Laboratory Raw Data section contains our project request sheet, the 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.

If you have any questions regarding project **10147**, 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: **10147**

Received on: **09/15/2016** Project Due: **10/07/2016** Storage: **R3**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
10147-001-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR+AC-CA-CORE	EPA 1668 PCB	Sediment	09/09/2016	10:08 am	09/11/2017
10147-002-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR+AC-CB-CORE	EPA 1668 PCB	Sediment	09/09/2016	09:45 am	09/11/2017
10147-003-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR+AC-CC-CORE	EPA 1668 PCB	Sediment	09/09/2016	04:00 pm	09/11/2017
10147-004-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR+AC-CD-CORE	EPA 1668 PCB	Sediment	09/09/2016	04:30 pm	09/11/2017
10147-005-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR+AC-CE-CORE	EPA 1668 PCB	Sediment	09/09/2016	04:50 pm	09/11/2017
10147-006-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR-CA-CORE	EPA 1668 PCB	Sediment	09/10/2016	01:05 pm	09/10/2017
10147-007-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR-CB-CORE	EPA 1668 PCB	Sediment	09/10/2016	12:10 pm	09/10/2017
10147-008-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR-CC-CORE	EPA 1668 PCB	Sediment	09/10/2016	12:25 pm	09/10/2017
10147-009-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR-CD-CORE	EPA 1668 PCB	Sediment	09/10/2016	01:35 pm	09/10/2017
10147-010-SA	0	LDW ENR/AC Pilot Study	LDW-BA-SC-ENR-CE-CORE	EPA 1668 PCB	Sediment	09/12/2016	11:45 am	09/12/2017
10147-011-SA	0	LDW ENR/AC Pilot Study	LDW-BA-IN-ENR+AC-CA-CORE	EPA 1668 PCB	Sediment	09/14/2016	10:20 am	09/14/2017
10147-012-SA	0	LDW ENR/AC Pilot Study	LDW-BA-IN-ENR+AC-CB-CORE	EPA 1668 PCB	Sediment	09/14/2016	10:55 am	09/14/2017
10147-013-SA	0	LDW ENR/AC Pilot Study	LDW-BA-IN-ENR+AC-CC-CORE	EPA 1668 PCB	Sediment	09/14/2016	09:57 am	09/14/2017
10147-014-SA	0	LDW ENR/AC Pilot Study	LDW-BA-IN-ENR+AC-CD-CORE	EPA 1668 PCB	Sediment	09/13/2016	11:40 am	09/13/2017
10147-015-SA	0	LDW ENR/AC Pilot Study	LDW-BA-IN-ENR-CA-CORE	EPA 1668 PCB	Sediment	09/14/2016	11:30 am	09/14/2017
10147-016-SA	0	LDW ENR/AC Pilot Study	LDW-BA-IN-ENR-CB-CORE	EPA 1668 PCB	Sediment	09/14/2016	10:40 am	09/14/2017
10147-017-SA	0	LDW ENR/AC Pilot Study	LDW-BA-IN-ENR-CC-CORE	EPA 1668 PCB	Sediment	09/14/2016	11:42 am	09/14/2017

FAL Sample ID	Notes
10147-004-SA	'Sample was received with a cracked lid. Sample on Hold. KH 9/16/16
10147-005-SA	Sample on Hold. KH 9/16/16
10147-009-SA	Sample on Hold. KH 9/16/16
10147-010-SA	Sample on Hold. KH 9/16/16
10147-014-SA	Sample on Hold. KH 9/16/16

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EPA Method 1668
PCBs

FAL ID: 10147-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-28-2016
Total Conc: 0.00

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	0.428			PCB-51	ND	0.583		
PCB-2	ND	0.498			PCB-52	ND	0.492	C	69
PCB-3	ND	0.502			PCB-53	ND	0.613		
PCB-4	ND	0.941			PCB-54	ND	0.468		
PCB-5	ND	0.827			PCB-55	ND	0.432		
PCB-6	ND	0.848			PCB-56	ND	0.682	C	60
PCB-7	ND	0.833			PCB-57	ND	0.450		
PCB-8	ND	0.843			PCB-58	ND	0.451		
PCB-9	ND	0.798			PCB-59	-	-	C042	42
PCB-10	ND	0.846			PCB-60	-	-	C056	56
PCB-11	ND	0.878			PCB-61	ND	0.423	C	70
PCB-12	ND	0.829			PCB-62	ND	0.491		
PCB-13	ND	0.896			PCB-63	ND	0.452		
PCB-14	ND	0.847			PCB-64	-	-	C041	41/71/72
PCB-15	ND	0.760			PCB-65	ND	0.493		
PCB-16	ND	0.624			PCB-66	ND	0.430	C	76
PCB-17	ND	0.667			PCB-67	ND	0.454		
PCB-18	ND	0.709			PCB-68	ND	0.433		
PCB-19	ND	0.691			PCB-69	-	-	C052	52
PCB-20	ND	0.554	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	0.524			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.625			PCB-73	ND	0.457		
PCB-24	ND	0.544			PCB-74	ND	0.412		
PCB-25	ND	0.467			PCB-75	-	-	C048	48
PCB-26	ND	0.584			PCB-76	-	-	C066	66
PCB-27	ND	0.463			PCB-77	ND	0.595		
PCB-28	ND	0.525			PCB-78	ND	0.626		
PCB-29	ND	0.631			PCB-79	ND	0.607		
PCB-30	ND	0.496			PCB-80	ND	0.384		
PCB-31	ND	0.581			PCB-81	ND	0.575		
PCB-32	ND	0.536			PCB-82	ND	0.954		
PCB-33	-	-	C020	20/21	PCB-83	ND	0.856	C	112
PCB-34	ND	0.694			PCB-84	ND	0.988	C	92
PCB-35	ND	0.558			PCB-85	ND	0.842	C	116
PCB-36	ND	0.588			PCB-86	ND	0.971		
PCB-37	ND	0.525			PCB-87	ND	0.755	C	117/125
PCB-38	ND	0.618			PCB-88	ND	0.574	C	91
PCB-39	ND	0.566			PCB-89	ND	0.993		
PCB-40	ND	0.768			PCB-90	ND	0.875	C	101
PCB-41	ND	0.449	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	0.496	C	59	PCB-92	-	-	C084	84
PCB-43	ND	0.620	C	49	PCB-93	ND	0.760		
PCB-44	ND	0.664			PCB-94	ND	0.640		
PCB-45	ND	0.681			PCB-95	ND	0.751		
PCB-46	ND	0.705			PCB-96	ND	0.452		
PCB-47	ND	0.457			PCB-97	ND	0.810		
PCB-48	ND	0.519	C	75	PCB-98	ND	0.451	C	102
PCB-49	-	-	C043	43	PCB-99	ND	0.807		
PCB-50	ND	0.616			PCB-100	ND	0.547		

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EPA Method 1668
PCBs

FAL ID: 10147-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-28-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	0.595		
PCB-102	-	-	C098	98	PCB-152	ND	0.531		
PCB-103	ND	0.541			PCB-153	ND	0.514		
PCB-104	ND	0.423			PCB-154	ND	0.625		
PCB-105	ND	0.832			PCB-155	ND	0.475		
PCB-106	ND	0.820	C	118	PCB-156	ND	0.482		
PCB-107	ND	0.829	C	108	PCB-157	ND	0.509		
PCB-108	-	-	C107	107	PCB-158	ND	0.459	C	160
PCB-109	ND	0.761			PCB-159	ND	0.462		
PCB-110	ND	0.661			PCB-160	-	-	C158	158
PCB-111	ND	0.592	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.767			PCB-163	-	-	C138	138/164
PCB-114	ND	0.862			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	0.491		
PCB-117	-	-	C087	87/125	PCB-167	ND	0.501		
PCB-118	-	-	C106	106	PCB-168	ND	0.461		
PCB-119	ND	0.682			PCB-169	ND	0.543		
PCB-120	ND	0.641			PCB-170	ND	0.688		
PCB-121	ND	0.483			PCB-171	ND	0.538		
PCB-122	ND	0.833			PCB-172	ND	0.593		
PCB-123	ND	0.731			PCB-173	ND	0.609		
PCB-124	ND	0.794			PCB-174	ND	0.497		
PCB-125	-	-	C087	87/117	PCB-175	ND	0.497		
PCB-126	ND	0.879			PCB-176	ND	0.372		
PCB-127	ND	0.920			PCB-177	ND	0.598		
PCB-128	ND	0.539	C	162	PCB-178	ND	0.519		
PCB-129	ND	0.733			PCB-179	ND	0.362		
PCB-130	ND	0.653			PCB-180	ND	0.451		
PCB-131	ND	0.587	C	133	PCB-181	ND	0.541		
PCB-132	ND	0.528	C	161	PCB-182	ND	0.468	C	187
PCB-133	-	-	C131	131	PCB-183	ND	0.870		
PCB-134	ND	0.592	C	143	PCB-184	ND	0.355		
PCB-135	ND	0.554			PCB-185	ND	0.517		
PCB-136	ND	0.529			PCB-186	ND	0.376		
PCB-137	ND	0.643			PCB-187	-	-	C182	182
PCB-138	ND	0.442	C	163/164	PCB-188	ND	0.420		
PCB-139	ND	0.538	C	149	PCB-189	ND	0.376		
PCB-140	ND	0.583			PCB-190	ND	0.501		
PCB-141	ND	0.597			PCB-191	ND	0.455		
PCB-142	ND	0.689			PCB-192	ND	0.459		
PCB-143	-	-	C134	134	PCB-193	ND	0.422		
PCB-144	ND	0.595			PCB-194	ND	0.488		
PCB-145	ND	0.534			PCB-195	ND	0.496		
PCB-146	ND	0.501	C	165	PCB-196	ND	0.753	C	203
PCB-147	ND	0.565			PCB-197	ND	0.524		
PCB-148	ND	0.738			PCB-198	ND	0.808		
PCB-149	-	-	C139	139	PCB-199	ND	0.875		
PCB-150	ND	0.521			PCB-200	ND	0.550		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-28-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	0.525		
PCB-202	ND	0.512		
PCB-203	-	-	C196	196
PCB-204	ND	0.527		
PCB-205	ND	0.989		
PCB-206	ND	0.506		
PCB-207	ND	0.439		
PCB-208	ND	0.419		
PCB-209	ND	0.633		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	80.7	5.00 - 145	
13C-PCB-3	81.6	5.00 - 145	
13C-PCB-4	86.6	5.00 - 145	
13C-PCB-15	92.9	5.00 - 145	
13C-PCB-19	85.9	5.00 - 145	
13C-PCB-37	103	5.00 - 145	
13C-PCB-54	99.4	5.00 - 145	
13C-PCB-77	92.7	10.0 - 145	
13C-PCB-81	95.8	10.0 - 145	
13C-PCB-104	87.9	10.0 - 145	
13C-PCB-105	99.4	10.0 - 145	
13C-PCB-114	98.6	10.0 - 145	
13C-PCB-118	102	10.0 - 145	
13C-PCB-123	106	10.0 - 145	
13C-PCB-126	97.0	10.0 - 145	
13C-PCB-155	88.8	10.0 - 145	
13C-PCB-156	99.3	10.0 - 145	
13C-PCB-157	98.4	10.0 - 145	
13C-PCB-167	98.2	10.0 - 145	
13C-PCB-169	99.9	10.0 - 145	
13C-PCB-188	89.3	10.0 - 145	
13C-PCB-189	92.7	10.0 - 145	
13C-PCB-202	89.3	10.0 - 145	
13C-PCB-205	95.4	10.0 - 145	
13C-PCB-206	93.4	10.0 - 145	
13C-PCB-208	86.6	10.0 - 145	
13C-PCB-209	87.5	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	126	5.00 - 145	
13C-PCB-111	110	10.0 - 145	
13C-PCB-178	110	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: 10/11/2016

Reviewed By: _____

Date: 10/11/2016

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EPA Method 1668
PCBs

FAL ID: 10147-001-OPR
Client ID: OPR
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: ng/ml

Acquired: 09-28-2016

Compound	% Recovery	QC Limits	Qual
PCB-1	101	60.0 - 135	
PCB-3	105	60.0 - 135	
PCB-4	111	60.0 - 135	
PCB-15	95.4	60.0 - 135	
PCB-19	102	60.0 - 135	
PCB-37	99.0	60.0 - 135	
PCB-54	101	60.0 - 135	
PCB-77	97.2	60.0 - 135	
PCB-81	97.0	60.0 - 135	
PCB-104	100	60.0 - 135	
PCB-105	103	60.0 - 135	
PCB-114	98.4	60.0 - 135	
PCB-118	108	60.0 - 135	
PCB-123	89.8	60.0 - 135	
PCB-126	96.8	60.0 - 135	
PCB-155	97.2	60.0 - 135	
PCB-156	98.2	60.0 - 135	
PCB-157	98.6	60.0 - 135	
PCB-167	102	60.0 - 135	
PCB-169	98.2	60.0 - 135	
PCB-188	98.6	60.0 - 135	
PCB-189	97.8	60.0 - 135	
PCB-202	101	60.0 - 135	
PCB-205	102	60.0 - 135	
PCB-206	99.2	60.0 - 135	
PCB-208	101	60.0 - 135	
PCB-209	98.0	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	84.4	15.0 - 145	
13C-PCB-3	87.8	15.0 - 145	
13C-PCB-4	92.3	15.0 - 145	
13C-PCB-15	98.3	15.0 - 145	
13C-PCB-19	91.9	15.0 - 145	
13C-PCB-37	101	15.0 - 145	
13C-PCB-54	102	15.0 - 145	
13C-PCB-77	103	40.0 - 145	
13C-PCB-81	108	40.0 - 145	
13C-PCB-104	95.7	40.0 - 145	
13C-PCB-105	107	40.0 - 145	
13C-PCB-114	103	40.0 - 145	
13C-PCB-118	106	40.0 - 145	
13C-PCB-123	112	40.0 - 145	
13C-PCB-126	114	40.0 - 145	
13C-PCB-155	98.1	40.0 - 145	
13C-PCB-156	107	40.0 - 145	
13C-PCB-157	107	40.0 - 145	
13C-PCB-167	106	40.0 - 145	
13C-PCB-169	104	40.0 - 145	
13C-PCB-188	98.1	40.0 - 145	
13C-PCB-189	96.9	40.0 - 145	
13C-PCB-202	101	40.0 - 145	
13C-PCB-205	102	40.0 - 145	
13C-PCB-206	99.1	40.0 - 145	
13C-PCB-208	94.3	40.0 - 145	
13C-PCB-209	96.2	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	109	15.0 - 145	
13C-PCB-111	104	40.0 - 145	
13C-PCB-178	109	40.0 - 145	

Analyst: _____

Date: 10/11/2016

Reviewed By: _____

Date: 10/11/2016

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-001-SA
Client ID: LDW-BA-SC-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.03 g
% Solids: 52.66

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-28-2016
Total Conc: 21700

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	7.82	-			PCB-51	23.7	-		
PCB-2	2.61	-	J		PCB-52	451	-	C	69
PCB-3	6.56	-			PCB-53	65.5	-		
PCB-4	37.3	-			PCB-54	ND	0.628		
PCB-5	ND	0.509			PCB-55	10.1	-		
PCB-6	55.9	-			PCB-56	270	-	C	60
PCB-7	6.94	-			PCB-57	ND	0.605		
PCB-8	175	-			PCB-58	ND	0.605		
PCB-9	8.18	-			PCB-59	-	-	C042	42
PCB-10	2.34	-	J		PCB-60	-	-	C056	56
PCB-11	10.8	-			PCB-61	474	-	C	70
PCB-12	2.60	-	J		PCB-62	ND	0.660		
PCB-13	14.8	-			PCB-63	19.8	-		
PCB-14	ND	0.522			PCB-64	-	-	C041	41/71/72
PCB-15	94.5	-			PCB-65	ND	0.662		
PCB-16	75.4	-			PCB-66	446	-	C	76
PCB-17	118	-			PCB-67	16.9	-		
PCB-18	243	-			PCB-68	1.80	-	J	
PCB-19	20.9	-			PCB-69	-	-	C052	52
PCB-20	238	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	149	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.19			PCB-73	ND	0.613		
PCB-24	10.8	-			PCB-74	206	-		
PCB-25	60.8	-			PCB-75	-	-	C048	48
PCB-26	113	-			PCB-76	-	-	C066	66
PCB-27	15.7	-			PCB-77	44.7	-		
PCB-28	455	-			PCB-78	ND	0.666		
PCB-29	4.69	-			PCB-79	6.91	-		
PCB-30	ND	0.594			PCB-80	ND	0.516		
PCB-31	456	-			PCB-81	9.90	-		
PCB-32	89.9	-			PCB-82	90.8	-		
PCB-33	-	-	C020	20/21	PCB-83	37.6	-	C	112
PCB-34	ND	1.32			PCB-84	343	-	C	92
PCB-35	ND	1.06			PCB-85	128	-	C	116
PCB-36	ND	1.12			PCB-86	ND	0.962		
PCB-37	117	-			PCB-87	283	-	C	117/125
PCB-38	ND	1.17			PCB-88	156	-	C	91
PCB-39	ND	1.08			PCB-89	9.10	-		
PCB-40	30.1	-			PCB-90	923	-	C	101
PCB-41	198	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	105	-	C	59	PCB-92	-	-	C084	84
PCB-43	363	-	C	49	PCB-93	ND	1.40		
PCB-44	293	-			PCB-94	5.88	-		
PCB-45	59.5	-			PCB-95	1100	-		
PCB-46	22.7	-			PCB-96	ND	0.833		
PCB-47	96.9	-			PCB-97	203	-		
PCB-48	74.3	-	C	75	PCB-98	ND	0.833	C	102
PCB-49	-	-	C043	43	PCB-99	378	-		
PCB-50	ND	0.827			PCB-100	10.7	-		

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EPA Method 1668
PCBs

FAL ID: 10147-001-SA
Client ID: LDW-BA-SC-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.03 g
% Solids: 52.66

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-28-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	301	-		
PCB-102	-	-	C098	98	PCB-152	1.30	-	J	
PCB-103	9.10	-			PCB-153	1250	-		
PCB-104	ND	0.780			PCB-154	30.7	-		
PCB-105	303	-			PCB-155	ND	0.386		
PCB-106	733	-	C	118	PCB-156	115	-		
PCB-107	57.4	-	C	108	PCB-157	24.9	-		
PCB-108	-	-	C107	107	PCB-158	124	-	C	160
PCB-109	ND	0.754			PCB-159	17.8	-		
PCB-110	830	-			PCB-160	-	-	C158	158
PCB-111	11.7	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.760			PCB-163	-	-	C138	138/164
PCB-114	18.2	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	3.67	-	J	
PCB-117	-	-	C087	87/125	PCB-167	50.5	-		
PCB-118	-	-	C106	106	PCB-168	2.35	-	J	
PCB-119	28.2	-			PCB-169	ND	0.568		
PCB-120	4.57	-			PCB-170	473	-		
PCB-121	ND	0.891			PCB-171	126	-		
PCB-122	8.93	-			PCB-172	67.7	-		
PCB-123	12.6	-			PCB-173	9.12	-		
PCB-124	30.9	-			PCB-174	386	-		
PCB-125	-	-	C087	87/117	PCB-175	19.1	-		
PCB-126	4.78	-			PCB-176	59.2	-		
PCB-127	ND	0.953			PCB-177	284	-		
PCB-128	167	-	C	162	PCB-178	87.3	-		
PCB-129	47.1	-			PCB-179	177	-		
PCB-130	69.5	-			PCB-180	724	-		
PCB-131	33.8	-	C	133	PCB-181	ND	0.688		
PCB-132	354	-	C	161	PCB-182	522	-	C	187
PCB-133	-	-	C131	131	PCB-183	257	-		
PCB-134	57.7	-	C	143	PCB-184	ND	0.451		
PCB-135	141	-			PCB-185	46.5	-		
PCB-136	184	-			PCB-186	ND	0.478		
PCB-137	50.9	-			PCB-187	-	-	C182	182
PCB-138	1120	-	C	163/164	PCB-188	ND	0.520		
PCB-139	1030	-	C	149	PCB-189	17.3	-		
PCB-140	7.88	-			PCB-190	98.3	-		
PCB-141	213	-			PCB-191	16.4	-		
PCB-142	ND	0.873			PCB-192	ND	0.584		
PCB-143	-	-	C134	134	PCB-193	49.1	-		
PCB-144	75.8	-			PCB-194	185	-		
PCB-145	ND	0.434			PCB-195	76.1	-		
PCB-146	177	-	C	165	PCB-196	239	-	C	203
PCB-147	21.7	-			PCB-197	9.90	-		
PCB-148	3.16	-	J		PCB-198	11.3	-		
PCB-149	-	-	C139	139	PCB-199	241	-		
PCB-150	4.65	-			PCB-200	28.8	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-001-SA
Client ID: LDW-BA-SC-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.03 g
% Solids: 52.66

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-28-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	29.6	-		
PCB-202	40.9	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.648		
PCB-205	9.66	-		
PCB-206	72.1	-		
PCB-207	10.2	-		
PCB-208	18.9	-		
PCB-209	28.6	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	74.4	5.00 - 145	
13C-PCB-3	89.2	5.00 - 145	
13C-PCB-4	94.4	5.00 - 145	
13C-PCB-15	93.0	5.00 - 145	
13C-PCB-19	86.6	5.00 - 145	
13C-PCB-37	91.4	5.00 - 145	
13C-PCB-54	104	5.00 - 145	
13C-PCB-77	110	10.0 - 145	
13C-PCB-81	113	10.0 - 145	
13C-PCB-104	79.2	10.0 - 145	
13C-PCB-105	109	10.0 - 145	
13C-PCB-114	108	10.0 - 145	
13C-PCB-118	106	10.0 - 145	
13C-PCB-123	111	10.0 - 145	
13C-PCB-126	118	10.0 - 145	
13C-PCB-155	93.0	10.0 - 145	
13C-PCB-156	110	10.0 - 145	
13C-PCB-157	106	10.0 - 145	
13C-PCB-167	106	10.0 - 145	
13C-PCB-169	113	10.0 - 145	
13C-PCB-188	88.7	10.0 - 145	
13C-PCB-189	96.4	10.0 - 145	
13C-PCB-202	89.4	10.0 - 145	
13C-PCB-205	102	10.0 - 145	
13C-PCB-206	98.9	10.0 - 145	
13C-PCB-208	92.0	10.0 - 145	
13C-PCB-209	87.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	117	5.00 - 145	
13C-PCB-111	108	10.0 - 145	
13C-PCB-178	101	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: 10/11/2016

Reviewed By: _____

Date: 10/11/2016

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EPA Method 1668
PCBs

FAL ID: 10147-002-SA
Client ID: LDW-BA-SC-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.06 g
% Solids: 55.50

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-28-2016
Total Conc: 27600

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	11.3	-			PCB-51	44.1	-		
PCB-2	2.43	-	J		PCB-52	653	-	C	69
PCB-3	9.09	-			PCB-53	127	-		
PCB-4	71.1	-			PCB-54	2.60	-	J	
PCB-5	ND	0.429			PCB-55	16.2	-		
PCB-6	71.3	-			PCB-56	543	-	C	60
PCB-7	16.6	-			PCB-57	3.85	-	J	
PCB-8	334	-			PCB-58	2.28	-	J	
PCB-9	9.36	-			PCB-59	-	-	C042	42
PCB-10	4.03	-			PCB-60	-	-	C056	56
PCB-11	8.97	-			PCB-61	767	-	C	70
PCB-12	5.56	-			PCB-62	ND	0.532		
PCB-13	22.0	-			PCB-63	33.3	-		
PCB-14	ND	0.440			PCB-64	-	-	C041	41/71/72
PCB-15	153	-			PCB-65	ND	0.533		
PCB-16	169	-			PCB-66	735	-	C	76
PCB-17	254	-			PCB-67	30.7	-		
PCB-18	555	-			PCB-68	2.22	-	J	
PCB-19	52.2	-			PCB-69	-	-	C052	52
PCB-20	560	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	316	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.949			PCB-73	ND	0.493		
PCB-24	15.9	-			PCB-74	351	-		
PCB-25	89.6	-			PCB-75	-	-	C048	48
PCB-26	158	-			PCB-76	-	-	C066	66
PCB-27	35.3	-			PCB-77	70.2	-		
PCB-28	1010	-			PCB-78	1.81	-	J	
PCB-29	8.36	-			PCB-79	5.27	-		
PCB-30	ND	0.649			PCB-80	ND	0.416		
PCB-31	845	-			PCB-81	9.98	-		
PCB-32	193	-			PCB-82	122	-		
PCB-33	-	-	C020	20/21	PCB-83	46.9	-	C	112
PCB-34	6.35	-			PCB-84	413	-	C	92
PCB-35	ND	0.846			PCB-85	160	-	C	116
PCB-36	ND	0.893			PCB-86	ND	0.978		
PCB-37	224	-			PCB-87	344	-	C	117/125
PCB-38	ND	0.938			PCB-88	207	-	C	91
PCB-39	ND	0.859			PCB-89	14.0	-		
PCB-40	75.1	-			PCB-90	1030	-	C	101
PCB-41	363	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	182	-	C	59	PCB-92	-	-	C084	84
PCB-43	577	-	C	49	PCB-93	ND	1.38		
PCB-44	494	-			PCB-94	8.83	-		
PCB-45	131	-			PCB-95	1390	-		
PCB-46	52.8	-			PCB-96	7.03	-		
PCB-47	167	-			PCB-97	248	-		
PCB-48	145	-	C	75	PCB-98	ND	0.817	C	102
PCB-49	-	-	C043	43	PCB-99	433	-		
PCB-50	3.66	-	J		PCB-100	9.92	-		

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EPA Method 1668
PCBs

FAL ID: 10147-002-SA
Client ID: LDW-BA-SC-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.06 g
% Solids: 55.50

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-28-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	299	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.703		
PCB-103	14.6	-			PCB-153	1220	-		
PCB-104	ND	0.765			PCB-154	26.9	-		
PCB-105	354	-			PCB-155	ND	0.629		
PCB-106	792	-	C	118	PCB-156	118	-		
PCB-107	67.1	-	C	108	PCB-157	25.5	-		
PCB-108	-	-	C107	107	PCB-158	118	-	C	160
PCB-109	ND	0.766			PCB-159	16.9	-		
PCB-110	947	-			PCB-160	-	-	C158	158
PCB-111	11.1	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.772			PCB-163	-	-	C138	138/164
PCB-114	23.0	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	4.52	-		
PCB-117	-	-	C087	87/125	PCB-167	51.2	-		
PCB-118	-	-	C106	106	PCB-168	1.89	-	J	
PCB-119	27.8	-			PCB-169	ND	0.584		
PCB-120	ND	0.646			PCB-170	458	-		
PCB-121	ND	0.874			PCB-171	124	-		
PCB-122	11.6	-			PCB-172	73.4	-		
PCB-123	14.9	-			PCB-173	10.1	-		
PCB-124	38.0	-			PCB-174	413	-		
PCB-125	-	-	C087	87/117	PCB-175	17.9	-		
PCB-126	5.65	-			PCB-176	57.8	-		
PCB-127	ND	0.937			PCB-177	279	-		
PCB-128	170	-	C	162	PCB-178	88.0	-		
PCB-129	49.6	-			PCB-179	167	-		
PCB-130	71.2	-			PCB-180	777	-		
PCB-131	31.8	-	C	133	PCB-181	ND	0.706		
PCB-132	332	-	C	161	PCB-182	517	-	C	187
PCB-133	-	-	C131	131	PCB-183	259	-		
PCB-134	59.2	-	C	143	PCB-184	ND	0.463		
PCB-135	147	-			PCB-185	51.5	-		
PCB-136	185	-			PCB-186	ND	0.491		
PCB-137	50.7	-			PCB-187	-	-	C182	182
PCB-138	1080	-	C	163/164	PCB-188	ND	0.563		
PCB-139	999	-	C	149	PCB-189	15.1	-		
PCB-140	7.52	-			PCB-190	100	-		
PCB-141	220	-			PCB-191	18.6	-		
PCB-142	ND	0.911			PCB-192	ND	0.600		
PCB-143	-	-	C134	134	PCB-193	51.2	-		
PCB-144	62.4	-			PCB-194	202	-		
PCB-145	ND	0.707			PCB-195	72.5	-		
PCB-146	168	-	C	165	PCB-196	269	-	C	203
PCB-147	21.6	-			PCB-197	9.34	-		
PCB-148	ND	0.977			PCB-198	11.3	-		
PCB-149	-	-	C139	139	PCB-199	260	-		
PCB-150	3.60	-	J		PCB-200	28.3	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-002-SA
Client ID: LDW-BA-SC-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.06 g
% Solids: 55.50

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-28-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	30.7	-		
PCB-202	42.8	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.712		
PCB-205	10.8	-		
PCB-206	72.4	-		
PCB-207	10.4	-		
PCB-208	18.8	-		
PCB-209	22.6	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	78.6	5.00 - 145	
13C-PCB-3	89.5	5.00 - 145	
13C-PCB-4	94.6	5.00 - 145	
13C-PCB-15	96.8	5.00 - 145	
13C-PCB-19	88.1	5.00 - 145	
13C-PCB-37	88.2	5.00 - 145	
13C-PCB-54	110	5.00 - 145	
13C-PCB-77	97.4	10.0 - 145	
13C-PCB-81	103	10.0 - 145	
13C-PCB-104	74.9	10.0 - 145	
13C-PCB-105	114	10.0 - 145	
13C-PCB-114	110	10.0 - 145	
13C-PCB-118	105	10.0 - 145	
13C-PCB-123	113	10.0 - 145	
13C-PCB-126	120	10.0 - 145	
13C-PCB-155	93.4	10.0 - 145	
13C-PCB-156	114	10.0 - 145	
13C-PCB-157	109	10.0 - 145	
13C-PCB-167	111	10.0 - 145	
13C-PCB-169	117	10.0 - 145	
13C-PCB-188	86.4	10.0 - 145	
13C-PCB-189	103	10.0 - 145	
13C-PCB-202	87.2	10.0 - 145	
13C-PCB-205	102	10.0 - 145	
13C-PCB-206	96.8	10.0 - 145	
13C-PCB-208	92.0	10.0 - 145	
13C-PCB-209	84.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	125	5.00 - 145	
13C-PCB-111	107	10.0 - 145	
13C-PCB-178	98.0	10.0 - 145	

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

Analyst: _____

Date: 10/11/2016

Reviewed By: _____

Date: 10/11/2016

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EPA Method 1668
PCBs

FAL ID: 10147-003-SA
Client ID: LDW-BA-SC-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.01 g
% Solids: 51.14

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-28-2016
Total Conc: 19200

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	7.46	-			PCB-51	28.5	-		
PCB-2	1.59	-	J		PCB-52	473	-	C	69
PCB-3	5.81	-			PCB-53	79.4	-		
PCB-4	40.0	-			PCB-54	1.69	-	J	
PCB-5	ND	0.721			PCB-55	12.2	-		
PCB-6	44.1	-			PCB-56	339	-	C	60
PCB-7	8.53	-			PCB-57	4.21	-		
PCB-8	203	-			PCB-58	1.64	-	J	
PCB-9	7.03	-			PCB-59	-	-	C042	42
PCB-10	1.80	-	J		PCB-60	-	-	C056	56
PCB-11	6.04	-			PCB-61	512	-	C	70
PCB-12	3.79	-	J		PCB-62	ND	0.613		
PCB-13	14.6	-			PCB-63	22.1	-		
PCB-14	ND	0.739			PCB-64	-	-	C041	41/71/72
PCB-15	92.6	-			PCB-65	ND	0.615		
PCB-16	114	-			PCB-66	482	-	C	76
PCB-17	164	-			PCB-67	19.7	-		
PCB-18	347	-			PCB-68	2.08	-	J	
PCB-19	29.2	-			PCB-69	-	-	C052	52
PCB-20	315	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	180	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.983			PCB-73	ND	0.570		
PCB-24	18.9	-			PCB-74	234	-		
PCB-25	43.2	-			PCB-75	-	-	C048	48
PCB-26	97.9	-			PCB-76	-	-	C066	66
PCB-27	13.9	-			PCB-77	46.3	-		
PCB-28	505	-			PCB-78	ND	0.932		
PCB-29	5.94	-			PCB-79	3.65	-	J	
PCB-30	ND	0.675			PCB-80	ND	0.480		
PCB-31	400	-			PCB-81	7.72	-		
PCB-32	109	-			PCB-82	86.5	-		
PCB-33	-	-	C020	20/21	PCB-83	32.1	-	C	112
PCB-34	3.26	-	J		PCB-84	291	-	C	92
PCB-35	ND	0.877			PCB-85	112	-	C	116
PCB-36	ND	0.925			PCB-86	ND	0.872		
PCB-37	131	-			PCB-87	247	-	C	117/125
PCB-38	ND	0.972			PCB-88	126	-	C	91
PCB-39	ND	0.891			PCB-89	9.71	-		
PCB-40	62.0	-			PCB-90	750	-	C	101
PCB-41	311	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	138	-	C	59	PCB-92	-	-	C084	84
PCB-43	397	-	C	49	PCB-93	ND	0.939		
PCB-44	371	-			PCB-94	5.38	-		
PCB-45	84.9	-			PCB-95	885	-		
PCB-46	33.4	-			PCB-96	5.71	-		
PCB-47	114	-			PCB-97	173	-		
PCB-48	106	-	C	75	PCB-98	ND	0.557	C	102
PCB-49	-	-	C043	43	PCB-99	304	-		
PCB-50	2.23	-	J		PCB-100	5.89	-		

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EPA Method 1668
PCBs

FAL ID: 10147-003-SA
Client ID: LDW-BA-SC-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.01 g
% Solids: 51.14

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-28-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	245	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.700		
PCB-103	13.7	-			PCB-153	983	-		
PCB-104	ND	0.522			PCB-154	18.2	-		
PCB-105	248	-			PCB-155	ND	0.626		
PCB-106	611	-	C	118	PCB-156	91.4	-		
PCB-107	45.5	-	C	108	PCB-157	18.3	-		
PCB-108	-	-	C107	107	PCB-158	98.4	-	C	160
PCB-109	ND	0.683			PCB-159	12.9	-		
PCB-110	692	-			PCB-160	-	-	C158	158
PCB-111	13.1	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.688			PCB-163	-	-	C138	138/164
PCB-114	14.7	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	3.00	-	J	
PCB-117	-	-	C087	87/125	PCB-167	39.5	-		
PCB-118	-	-	C106	106	PCB-168	1.41	-	J	
PCB-119	19.1	-			PCB-169	ND	0.603		
PCB-120	3.96	-	J		PCB-170	340	-		
PCB-121	ND	0.596			PCB-171	87.1	-		
PCB-122	7.97	-			PCB-172	56.4	-		
PCB-123	10.4	-			PCB-173	7.31	-		
PCB-124	27.9	-			PCB-174	296	-		
PCB-125	-	-	C087	87/117	PCB-175	12.2	-		
PCB-126	4.09	-			PCB-176	42.6	-		
PCB-127	ND	0.812			PCB-177	201	-		
PCB-128	131	-	C	162	PCB-178	64.7	-		
PCB-129	39.2	-			PCB-179	129	-		
PCB-130	53.4	-			PCB-180	549	-		
PCB-131	25.4	-	C	133	PCB-181	ND	0.646		
PCB-132	274	-	C	161	PCB-182	367	-	C	187
PCB-133	-	-	C131	131	PCB-183	183	-		
PCB-134	48.1	-	C	143	PCB-184	ND	0.424		
PCB-135	120	-			PCB-185	36.3	-		
PCB-136	153	-			PCB-186	ND	0.449		
PCB-137	36.3	-			PCB-187	-	-	C182	182
PCB-138	875	-	C	163/164	PCB-188	ND	0.478		
PCB-139	811	-	C	149	PCB-189	11.7	-		
PCB-140	5.47	-			PCB-190	73.5	-		
PCB-141	178	-			PCB-191	14.1	-		
PCB-142	ND	0.895			PCB-192	ND	0.549		
PCB-143	-	-	C134	134	PCB-193	35.7	-		
PCB-144	51.6	-			PCB-194	138	-		
PCB-145	ND	0.704			PCB-195	55.2	-		
PCB-146	132	-	C	165	PCB-196	175	-	C	203
PCB-147	15.6	-			PCB-197	7.78	-		
PCB-148	ND	0.973			PCB-198	8.20	-		
PCB-149	-	-	C139	139	PCB-199	173	-		
PCB-150	2.24	-	J		PCB-200	19.7	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-003-SA
Client ID: LDW-BA-SC-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.01 g
% Solids: 51.14

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-28-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	22.3	-		
PCB-202	29.3	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.744		
PCB-205	6.22	-		
PCB-206	49.9	-		
PCB-207	7.08	-		
PCB-208	13.0	-		
PCB-209	16.8	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	84.5	5.00 - 145	
13C-PCB-3	93.1	5.00 - 145	
13C-PCB-4	99.3	5.00 - 145	
13C-PCB-15	105	5.00 - 145	
13C-PCB-19	91.4	5.00 - 145	
13C-PCB-37	96.4	5.00 - 145	
13C-PCB-54	104	5.00 - 145	
13C-PCB-77	116	10.0 - 145	
13C-PCB-81	109	10.0 - 145	
13C-PCB-104	83.7	10.0 - 145	
13C-PCB-105	113	10.0 - 145	
13C-PCB-114	115	10.0 - 145	
13C-PCB-118	114	10.0 - 145	
13C-PCB-123	117	10.0 - 145	
13C-PCB-126	129	10.0 - 145	
13C-PCB-155	95.2	10.0 - 145	
13C-PCB-156	117	10.0 - 145	
13C-PCB-157	114	10.0 - 145	
13C-PCB-167	115	10.0 - 145	
13C-PCB-169	120	10.0 - 145	
13C-PCB-188	95.5	10.0 - 145	
13C-PCB-189	101	10.0 - 145	
13C-PCB-202	85.6	10.0 - 145	
13C-PCB-205	103	10.0 - 145	
13C-PCB-206	99.7	10.0 - 145	
13C-PCB-208	92.7	10.0 - 145	
13C-PCB-209	87.0	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	113	5.00 - 145	
13C-PCB-111	109	10.0 - 145	
13C-PCB-178	99.2	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: 10/11/2016

Reviewed By: _____

Date: 10/11/2016

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-006-SA
Client ID: LDW-BA-SC-ENR-CA-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.01 g
% Solids: 45.78

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016
Total Conc: 54700

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	14.3	-			PCB-51	35.7	-		
PCB-2	4.43	-			PCB-52	1130	-	C	69
PCB-3	13.4	-			PCB-53	111	-		
PCB-4	47.6	-			PCB-54	2.60	-	J	
PCB-5	ND	0.947			PCB-55	16.4	-		
PCB-6	68.8	-			PCB-56	445	-	C	60
PCB-7	11.1	-			PCB-57	4.43	-		
PCB-8	224	-			PCB-58	2.72	-	J	
PCB-9	9.29	-			PCB-59	-	-	C042	42
PCB-10	2.74	-	J		PCB-60	-	-	C056	56
PCB-11	19.9	-			PCB-61	1070	-	C	70
PCB-12	4.74	-			PCB-62	ND	0.742		
PCB-13	24.3	-			PCB-63	33.2	-		
PCB-14	ND	0.971			PCB-64	-	-	C041	41/71/72
PCB-15	140	-			PCB-65	ND	0.745		
PCB-16	107	-			PCB-66	802	-	C	76
PCB-17	158	-			PCB-67	27.8	-		
PCB-18	340	-			PCB-68	3.54	-	J	
PCB-19	32.0	-			PCB-69	-	-	C052	52
PCB-20	471	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	291	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.24			PCB-73	ND	0.690		
PCB-24	22.7	-			PCB-74	382	-		
PCB-25	128	-			PCB-75	-	-	C048	48
PCB-26	215	-			PCB-76	-	-	C066	66
PCB-27	16.8	-			PCB-77	77.0	-		
PCB-28	1040	-			PCB-78	3.03	-	J	
PCB-29	7.18	-			PCB-79	11.0	-		
PCB-30	ND	0.936			PCB-80	ND	0.581		
PCB-31	993	-			PCB-81	19.7	-		
PCB-32	117	-			PCB-82	269	-		
PCB-33	-	-	C020	20/21	PCB-83	112	-	C	112
PCB-34	7.65	-			PCB-84	1110	-	C	92
PCB-35	ND	1.10			PCB-85	357	-	C	116
PCB-36	ND	1.16			PCB-86	ND	1.02		
PCB-37	198	-			PCB-87	985	-	C	117/125
PCB-38	ND	1.22			PCB-88	572	-	C	91
PCB-39	ND	1.12			PCB-89	18.9	-		
PCB-40	60.2	-			PCB-90	2820	-	C	101
PCB-41	276	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	121	-	C	59	PCB-92	-	-	C084	84
PCB-43	589	-	C	49	PCB-93	ND	1.10		
PCB-44	488	-			PCB-94	17.8	-		
PCB-45	77.4	-			PCB-95	4610	-		
PCB-46	32.0	-			PCB-96	13.1	-		
PCB-47	147	-			PCB-97	645	-		
PCB-48	84.4	-	C	75	PCB-98	ND	0.653	C	102
PCB-49	-	-	C043	43	PCB-99	1060	-		
PCB-50	2.88	-	J		PCB-100	31.2	-		

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EPA Method 1668
PCBs

FAL ID: 10147-006-SA
Client ID: LDW-BA-SC-ENR-CA-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.01 g
% Solids: 45.78

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	668	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.829		
PCB-103	40.8	-			PCB-153	3000	-		
PCB-104	ND	0.612			PCB-154	74.6	-		
PCB-105	905	-			PCB-155	ND	0.742		
PCB-106	2290	-	C	118	PCB-156	358	-		
PCB-107	151	-	C	108	PCB-157	79.9	-		
PCB-108	-	-	C107	107	PCB-158	353	-	C	160
PCB-109	ND	0.800			PCB-159	35.7	-		
PCB-110	2670	-			PCB-160	-	-	C158	158
PCB-111	39.1	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.806			PCB-163	-	-	C138	138/164
PCB-114	51.7	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	15.8	-		
PCB-117	-	-	C087	87/125	PCB-167	146	-		
PCB-118	-	-	C106	106	PCB-168	5.30	-		
PCB-119	62.5	-			PCB-169	ND	0.839		
PCB-120	10.4	-			PCB-170	991	-		
PCB-121	ND	0.699			PCB-171	259	-		
PCB-122	26.2	-			PCB-172	161	-		
PCB-123	31.8	-			PCB-173	20.7	-		
PCB-124	96.4	-			PCB-174	803	-		
PCB-125	-	-	C087	87/117	PCB-175	39.8	-		
PCB-126	11.2	-			PCB-176	125	-		
PCB-127	ND	1.13			PCB-177	575	-		
PCB-128	516	-	C	162	PCB-178	186	-		
PCB-129	163	-			PCB-179	364	-		
PCB-130	194	-			PCB-180	1620	-		
PCB-131	96.2	-	C	133	PCB-181	ND	1.02		
PCB-132	966	-	C	161	PCB-182	1190	-	C	187
PCB-133	-	-	C131	131	PCB-183	551	-		
PCB-134	167	-	C	143	PCB-184	ND	0.671		
PCB-135	356	-			PCB-185	97.6	-		
PCB-136	461	-			PCB-186	ND	0.711		
PCB-137	177	-			PCB-187	-	-	C182	182
PCB-138	2990	-	C	163/164	PCB-188	3.07	-	J	
PCB-139	2520	-	C	149	PCB-189	38.6	-		
PCB-140	20.7	-			PCB-190	202	-		
PCB-141	556	-			PCB-191	39.8	-		
PCB-142	ND	1.23			PCB-192	ND	0.868		
PCB-143	-	-	C134	134	PCB-193	105	-		
PCB-144	179	-			PCB-194	503	-		
PCB-145	ND	0.834			PCB-195	193	-		
PCB-146	441	-	C	165	PCB-196	680	-	C	203
PCB-147	66.9	-			PCB-197	21.7	-		
PCB-148	ND	1.15			PCB-198	33.8	-		
PCB-149	-	-	C139	139	PCB-199	665	-		
PCB-150	11.3	-			PCB-200	74.2	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-006-SA
Client ID: LDW-BA-SC-ENR-CA-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.01 g
% Solids: 45.78

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	84.9	-		
PCB-202	123	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.03		
PCB-205	23.2	-		
PCB-206	275	-		
PCB-207	37.3	-		
PCB-208	69.2	-		
PCB-209	154	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	79.2	5.00 - 145	
13C-PCB-3	88.7	5.00 - 145	
13C-PCB-4	94.0	5.00 - 145	
13C-PCB-15	96.5	5.00 - 145	
13C-PCB-19	83.5	5.00 - 145	
13C-PCB-37	72.5	5.00 - 145	
13C-PCB-54	119	5.00 - 145	
13C-PCB-77	114	10.0 - 145	
13C-PCB-81	109	10.0 - 145	
13C-PCB-104	66.9	10.0 - 145	
13C-PCB-105	109	10.0 - 145	
13C-PCB-114	109	10.0 - 145	
13C-PCB-118	107	10.0 - 145	
13C-PCB-123	113	10.0 - 145	
13C-PCB-126	125	10.0 - 145	
13C-PCB-155	89.8	10.0 - 145	
13C-PCB-156	111	10.0 - 145	
13C-PCB-157	107	10.0 - 145	
13C-PCB-167	105	10.0 - 145	
13C-PCB-169	112	10.0 - 145	
13C-PCB-188	86.8	10.0 - 145	
13C-PCB-189	92.1	10.0 - 145	
13C-PCB-202	79.3	10.0 - 145	
13C-PCB-205	99.5	10.0 - 145	
13C-PCB-206	94.1	10.0 - 145	
13C-PCB-208	91.0	10.0 - 145	
13C-PCB-209	77.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	138	5.00 - 145	
13C-PCB-111	101	10.0 - 145	
13C-PCB-178	92.0	10.0 - 145	

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

Analyst: _____

Date: 10/11/2016

Reviewed By: _____

Date: 10/11/2016

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EPA Method 1668
PCBs

FAL ID: 10147-007-SA
Client ID: LDW-BA-SC-ENR-CB-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.04 g
% Solids: 46.74

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016
Total Conc: 17500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	8.83	-			PCB-51	15.5	-		
PCB-2	2.25	-	J		PCB-52	283	-	C	69
PCB-3	7.29	-			PCB-53	42.6	-		
PCB-4	23.0	-			PCB-54	ND	0.642		
PCB-5	ND	0.808			PCB-55	6.55	-		
PCB-6	33.1	-			PCB-56	162	-	C	60
PCB-7	4.61	-			PCB-57	2.17	-	J	
PCB-8	97.4	-			PCB-58	1.08	-	J	
PCB-9	4.18	-			PCB-59	-	-	C042	42
PCB-10	1.23	-	J		PCB-60	-	-	C056	56
PCB-11	9.44	-			PCB-61	314	-	C	70
PCB-12	2.43	-	J		PCB-62	ND	0.674		
PCB-13	11.7	-			PCB-63	11.9	-		
PCB-14	ND	0.829			PCB-64	-	-	C041	41/71/72
PCB-15	60.6	-			PCB-65	ND	0.677		
PCB-16	39.9	-			PCB-66	294	-	C	76
PCB-17	64.7	-			PCB-67	11.1	-		
PCB-18	136	-			PCB-68	2.29	-	J	
PCB-19	12.4	-			PCB-69	-	-	C052	52
PCB-20	182	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	102	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.00			PCB-73	ND	0.627		
PCB-24	9.35	-			PCB-74	133	-		
PCB-25	50.5	-			PCB-75	-	-	C048	48
PCB-26	93.1	-			PCB-76	-	-	C066	66
PCB-27	7.88	-			PCB-77	31.4	-		
PCB-28	365	-			PCB-78	ND	0.848		
PCB-29	ND	1.01			PCB-79	3.37	-	J	
PCB-30	ND	0.925			PCB-80	ND	0.528		
PCB-31	341	-			PCB-81	5.94	-		
PCB-32	49.2	-			PCB-82	64.8	-		
PCB-33	-	-	C020	20/21	PCB-83	27.5	-	C	112
PCB-34	ND	1.11			PCB-84	256	-	C	92
PCB-35	ND	0.894			PCB-85	93.6	-	C	116
PCB-36	ND	0.943			PCB-86	ND	0.935		
PCB-37	82.8	-			PCB-87	209	-	C	117/125
PCB-38	ND	0.991			PCB-88	148	-	C	91
PCB-39	ND	0.907			PCB-89	5.19	-		
PCB-40	27.9	-			PCB-90	686	-	C	101
PCB-41	117	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	52.9	-	C	59	PCB-92	-	-	C084	84
PCB-43	213	-	C	49	PCB-93	ND	1.43		
PCB-44	151	-			PCB-94	5.37	-		
PCB-45	32.1	-			PCB-95	1060	-		
PCB-46	12.7	-			PCB-96	4.94	-		
PCB-47	56.0	-			PCB-97	146	-		
PCB-48	39.3	-	C	75	PCB-98	ND	0.851	C	102
PCB-49	-	-	C043	43	PCB-99	277	-		
PCB-50	ND	0.846			PCB-100	12.2	-		

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EPA Method 1668
PCBs

FAL ID: 10147-007-SA
Client ID: LDW-BA-SC-ENR-CB-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.04 g
% Solids: 46.74

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	251	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.842		
PCB-103	17.5	-			PCB-153	1110	-		
PCB-104	ND	0.797			PCB-154	27.2	-		
PCB-105	228	-			PCB-155	ND	0.753		
PCB-106	555	-	C	118	PCB-156	105	-		
PCB-107	42.6	-	C	108	PCB-157	20.6	-		
PCB-108	-	-	C107	107	PCB-158	107	-	C	160
PCB-109	ND	0.733			PCB-159	16.1	-		
PCB-110	600	-			PCB-160	-	-	C158	158
PCB-111	8.46	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.739			PCB-163	-	-	C138	138/164
PCB-114	13.0	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	3.78	-	J	
PCB-117	-	-	C087	87/125	PCB-167	42.2	-		
PCB-118	-	-	C106	106	PCB-168	2.18	-	J	
PCB-119	20.9	-			PCB-169	ND	0.843		
PCB-120	3.57	-	J		PCB-170	461	-		
PCB-121	ND	0.911			PCB-171	114	-		
PCB-122	6.65	-			PCB-172	74.4	-		
PCB-123	9.68	-			PCB-173	9.83	-		
PCB-124	22.6	-			PCB-174	358	-		
PCB-125	-	-	C087	87/117	PCB-175	19.3	-		
PCB-126	3.12	-	J		PCB-176	55.5	-		
PCB-127	ND	0.937			PCB-177	264	-		
PCB-128	144	-	C	162	PCB-178	86.3	-		
PCB-129	38.0	-			PCB-179	158	-		
PCB-130	66.6	-			PCB-180	726	-		
PCB-131	28.1	-	C	133	PCB-181	ND	1.21		
PCB-132	255	-	C	161	PCB-182	497	-	C	187
PCB-133	-	-	C131	131	PCB-183	240	-		
PCB-134	47.4	-	C	143	PCB-184	ND	0.796		
PCB-135	126	-			PCB-185	45.0	-		
PCB-136	153	-			PCB-186	ND	0.843		
PCB-137	34.1	-			PCB-187	-	-	C182	182
PCB-138	936	-	C	163/164	PCB-188	ND	0.862		
PCB-139	854	-	C	149	PCB-189	15.2	-		
PCB-140	6.73	-			PCB-190	93.3	-		
PCB-141	196	-			PCB-191	17.8	-		
PCB-142	ND	1.18			PCB-192	ND	1.03		
PCB-143	-	-	C134	134	PCB-193	47.1	-		
PCB-144	55.3	-			PCB-194	205	-		
PCB-145	ND	0.847			PCB-195	74.1	-		
PCB-146	158	-	C	165	PCB-196	252	-	C	203
PCB-147	19.1	-			PCB-197	9.27	-		
PCB-148	ND	1.17			PCB-198	14.0	-		
PCB-149	-	-	C139	139	PCB-199	246	-		
PCB-150	4.45	-			PCB-200	25.6	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-007-SA
Client ID: LDW-BA-SC-ENR-CB-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.04 g
% Solids: 46.74

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	27.1	-		
PCB-202	41.5	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.03		
PCB-205	9.28	-		
PCB-206	76.5	-		
PCB-207	10.9	-		
PCB-208	20.1	-		
PCB-209	27.1	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	70.8	5.00 - 145	
13C-PCB-3	80.2	5.00 - 145	
13C-PCB-4	87.1	5.00 - 145	
13C-PCB-15	90.8	5.00 - 145	
13C-PCB-19	76.9	5.00 - 145	
13C-PCB-37	76.0	5.00 - 145	
13C-PCB-54	107	5.00 - 145	
13C-PCB-77	99.0	10.0 - 145	
13C-PCB-81	108	10.0 - 145	
13C-PCB-104	62.0	10.0 - 145	
13C-PCB-105	106	10.0 - 145	
13C-PCB-114	104	10.0 - 145	
13C-PCB-118	101	10.0 - 145	
13C-PCB-123	108	10.0 - 145	
13C-PCB-126	112	10.0 - 145	
13C-PCB-155	82.0	10.0 - 145	
13C-PCB-156	101	10.0 - 145	
13C-PCB-157	101	10.0 - 145	
13C-PCB-167	102	10.0 - 145	
13C-PCB-169	104	10.0 - 145	
13C-PCB-188	79.6	10.0 - 145	
13C-PCB-189	84.6	10.0 - 145	
13C-PCB-202	74.5	10.0 - 145	
13C-PCB-205	89.7	10.0 - 145	
13C-PCB-206	83.4	10.0 - 145	
13C-PCB-208	80.0	10.0 - 145	
13C-PCB-209	69.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	134	5.00 - 145	
13C-PCB-111	103	10.0 - 145	
13C-PCB-178	96.1	10.0 - 145	

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

Analyst: _____

Date: 10/11/2016

Reviewed By: _____

Date: 10/11/2016

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EPA Method 1668
PCBs

FAL ID: 10147-008-SA
Client ID: LDW-BA-SC-ENR-CC-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.04 g
% Solids: 47.43

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016
Total Conc: 26600

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	8.51	-			PCB-51	19.2	-		
PCB-2	2.85	-	J		PCB-52	616	-	C	69
PCB-3	12.6	-			PCB-53	58.7	-		
PCB-4	29.9	-			PCB-54	1.19	-	J	
PCB-5	ND	0.813			PCB-55	10.5	-		
PCB-6	36.2	-			PCB-56	257	-	C	60
PCB-7	6.16	-			PCB-57	3.40	-	J	
PCB-8	128	-			PCB-58	1.33	-	J	
PCB-9	5.48	-			PCB-59	-	-	C042	42
PCB-10	1.56	-	J		PCB-60	-	-	C056	56
PCB-11	12.3	-			PCB-61	582	-	C	70
PCB-12	2.69	-	J		PCB-62	ND	0.509		
PCB-13	14.3	-			PCB-63	17.9	-		
PCB-14	ND	0.834			PCB-64	-	-	C041	41/71/72
PCB-15	86.9	-			PCB-65	ND	0.511		
PCB-16	61.6	-			PCB-66	413	-	C	76
PCB-17	86.4	-			PCB-67	14.0	-		
PCB-18	185	-			PCB-68	2.52	-	J	
PCB-19	16.5	-			PCB-69	-	-	C052	52
PCB-20	242	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	135	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.904			PCB-73	ND	0.473		
PCB-24	8.37	-			PCB-74	207	-		
PCB-25	62.6	-			PCB-75	-	-	C048	48
PCB-26	131	-			PCB-76	-	-	C066	66
PCB-27	12.8	-			PCB-77	41.9	-		
PCB-28	442	-			PCB-78	2.05	-	J	
PCB-29	4.31	-			PCB-79	6.85	-		
PCB-30	ND	0.910			PCB-80	ND	0.398		
PCB-31	431	-			PCB-81	9.89	-		
PCB-32	60.7	-			PCB-82	141	-		
PCB-33	-	-	C020	20/21	PCB-83	55.8	-	C	112
PCB-34	5.07	-			PCB-84	538	-	C	92
PCB-35	ND	0.806			PCB-85	176	-	C	116
PCB-36	ND	0.850			PCB-86	ND	0.951		
PCB-37	109	-			PCB-87	472	-	C	117/125
PCB-38	ND	0.894			PCB-88	260	-	C	91
PCB-39	ND	0.818			PCB-89	9.43	-		
PCB-40	40.4	-			PCB-90	1350	-	C	101
PCB-41	184	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	73.8	-	C	59	PCB-92	-	-	C084	84
PCB-43	331	-	C	49	PCB-93	ND	1.23		
PCB-44	284	-			PCB-94	9.40	-		
PCB-45	40.5	-			PCB-95	1990	-		
PCB-46	17.9	-			PCB-96	7.65	-		
PCB-47	79.9	-			PCB-97	315	-		
PCB-48	51.9	-	C	75	PCB-98	ND	0.730	C	102
PCB-49	-	-	C043	43	PCB-99	522	-		
PCB-50	1.66	-	J		PCB-100	12.9	-		

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EPA Method 1668
PCBs

FAL ID: 10147-008-SA
Client ID: LDW-BA-SC-ENR-CC-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.04 g
% Solids: 47.43

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	319	-		
PCB-102	-	-	C098	98	PCB-152	3.06	-	J	
PCB-103	25.5	-			PCB-153	1540	-		
PCB-104	ND	0.683			PCB-154	36.5	-		
PCB-105	465	-			PCB-155	ND	0.643		
PCB-106	1200	-	C	118	PCB-156	180	-		
PCB-107	86.9	-	C	108	PCB-157	40.3	-		
PCB-108	-	-	C107	107	PCB-158	174	-	C	160
PCB-109	ND	0.745			PCB-159	16.5	-		
PCB-110	1300	-			PCB-160	-	-	C158	158
PCB-111	19.1	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.752			PCB-163	-	-	C138	138/164
PCB-114	30.0	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	7.60	-		
PCB-117	-	-	C087	87/125	PCB-167	70.0	-		
PCB-118	-	-	C106	106	PCB-168	2.54	-	J	
PCB-119	31.6	-			PCB-169	ND	0.762		
PCB-120	5.95	-			PCB-170	488	-		
PCB-121	ND	0.781			PCB-171	130	-		
PCB-122	14.1	-			PCB-172	79.5	-		
PCB-123	17.4	-			PCB-173	11.1	-		
PCB-124	49.0	-			PCB-174	387	-		
PCB-125	-	-	C087	87/117	PCB-175	19.7	-		
PCB-126	5.33	-			PCB-176	60.4	-		
PCB-127	ND	0.926			PCB-177	282	-		
PCB-128	252	-	C	162	PCB-178	91.5	-		
PCB-129	80.4	-			PCB-179	182	-		
PCB-130	110	-			PCB-180	773	-		
PCB-131	45.8	-	C	133	PCB-181	ND	1.11		
PCB-132	434	-	C	161	PCB-182	517	-	C	187
PCB-133	-	-	C131	131	PCB-183	256	-		
PCB-134	85.4	-	C	143	PCB-184	ND	0.727		
PCB-135	180	-			PCB-185	47.4	-		
PCB-136	229	-			PCB-186	ND	0.770		
PCB-137	82.7	-			PCB-187	-	-	C182	182
PCB-138	1420	-	C	163/164	PCB-188	ND	0.767		
PCB-139	1230	-	C	149	PCB-189	16.6	-		
PCB-140	10.3	-			PCB-190	102	-		
PCB-141	277	-			PCB-191	19.7	-		
PCB-142	ND	1.03			PCB-192	ND	0.941		
PCB-143	-	-	C134	134	PCB-193	49.5	-		
PCB-144	79.0	-			PCB-194	208	-		
PCB-145	ND	0.723			PCB-195	74.0	-		
PCB-146	220	-	C	165	PCB-196	266	-	C	203
PCB-147	35.7	-			PCB-197	9.67	-		
PCB-148	ND	0.999			PCB-198	13.6	-		
PCB-149	-	-	C139	139	PCB-199	243	-		
PCB-150	5.30	-			PCB-200	27.1	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-008-SA
Client ID: LDW-BA-SC-ENR-CC-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
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Amount: 5.04 g
% Solids: 47.43

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	30.6	-		
PCB-202	44.1	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.943		
PCB-205	10.2	-		
PCB-206	89.1	-		
PCB-207	11.2	-		
PCB-208	22.2	-		
PCB-209	34.9	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	75.9	5.00 - 145	
13C-PCB-3	85.3	5.00 - 145	
13C-PCB-4	93.8	5.00 - 145	
13C-PCB-15	96.3	5.00 - 145	
13C-PCB-19	79.2	5.00 - 145	
13C-PCB-37	68.3	5.00 - 145	
13C-PCB-54	111	5.00 - 145	
13C-PCB-77	106	10.0 - 145	
13C-PCB-81	104	10.0 - 145	
13C-PCB-104	70.0	10.0 - 145	
13C-PCB-105	109	10.0 - 145	
13C-PCB-114	111	10.0 - 145	
13C-PCB-118	107	10.0 - 145	
13C-PCB-123	118	10.0 - 145	
13C-PCB-126	121	10.0 - 145	
13C-PCB-155	86.6	10.0 - 145	
13C-PCB-156	109	10.0 - 145	
13C-PCB-157	106	10.0 - 145	
13C-PCB-167	108	10.0 - 145	
13C-PCB-169	107	10.0 - 145	
13C-PCB-188	85.0	10.0 - 145	
13C-PCB-189	87.5	10.0 - 145	
13C-PCB-202	77.2	10.0 - 145	
13C-PCB-205	92.0	10.0 - 145	
13C-PCB-206	85.4	10.0 - 145	
13C-PCB-208	84.4	10.0 - 145	
13C-PCB-209	71.4	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	119	5.00 - 145	
13C-PCB-111	108	10.0 - 145	
13C-PCB-178	98.0	10.0 - 145	

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

Analyst: _____

Date: 10/11/2016

Reviewed By: _____

Date: 10/11/2016

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EPA Method 1668
PCBs

FAL ID: 10147-011-SA
Client ID: LDW-BA-IN-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.06 g
% Solids: 58.31

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016
Total Conc: 222000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	49.1	-			PCB-51	87.9	-		
PCB-2	11.3	-			PCB-52	10900	-	C	69
PCB-3	24.1	-			PCB-53	351	-		
PCB-4	118	-			PCB-54	4.86	-		
PCB-5	ND	0.638			PCB-55	315	-		
PCB-6	372	-			PCB-56	1120	-	C	60
PCB-7	27.8	-			PCB-57	281	-		
PCB-8	449	-			PCB-58	47.9	-		
PCB-9	26.6	-			PCB-59	-	-	C042	42
PCB-10	3.35	-	J		PCB-60	-	-	C056	56
PCB-11	41.6	-			PCB-61	4200	-	C	70
PCB-12	11.9	-			PCB-62	ND	0.594		
PCB-13	56.4	-			PCB-63	224	-		
PCB-14	ND	0.654			PCB-64	-	-	C041	41/71/72
PCB-15	187	-			PCB-65	ND	0.596		
PCB-16	281	-			PCB-66	3360	-	C	76
PCB-17	485	-			PCB-67	619	-		
PCB-18	1170	-			PCB-68	99.4	-		
PCB-19	67.8	-			PCB-69	-	-	C052	52
PCB-20	929	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	463	-			PCB-72	-	-	C041	41/64/71
PCB-23	27.2	-			PCB-73	ND	0.552		
PCB-24	34.4	-			PCB-74	1410	-		
PCB-25	1210	-			PCB-75	-	-	C048	48
PCB-26	4900	-			PCB-76	-	-	C066	66
PCB-27	41.2	-			PCB-77	202	-		
PCB-28	1580	-			PCB-78	19.6	-		
PCB-29	10.9	-			PCB-79	69.4	-		
PCB-30	ND	0.770			PCB-80	ND	0.465		
PCB-31	1610	-			PCB-81	101	-		
PCB-32	314	-			PCB-82	1440	-		
PCB-33	-	-	C020	20/21	PCB-83	800	-	C	112
PCB-34	30.2	-			PCB-84	7000	-	C	92
PCB-35	ND	0.656			PCB-85	1940	-	C	116
PCB-36	ND	0.692			PCB-86	ND	0.929		
PCB-37	321	-			PCB-87	5000	-	C	117/125
PCB-38	ND	0.728			PCB-88	2220	-	C	91
PCB-39	ND	0.667			PCB-89	92.9	-		
PCB-40	330	-			PCB-90	12000	-	C	101
PCB-41	2110	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1130	-	C	59	PCB-92	-	-	C084	84
PCB-43	6620	-	C	49	PCB-93	ND	1.10		
PCB-44	4650	-			PCB-94	70.9	-		
PCB-45	255	-			PCB-95	18200	-		
PCB-46	114	-			PCB-96	71.0	-		
PCB-47	998	-			PCB-97	3150	-		
PCB-48	409	-	C	75	PCB-98	ND	0.655	C	102
PCB-49	-	-	C043	43	PCB-99	5530	-		
PCB-50	12.8	-			PCB-100	93.8	-		

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EPA Method 1668
PCBs

FAL ID: 10147-011-SA
Client ID: LDW-BA-IN-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.06 g
% Solids: 58.31

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	2290	-		
PCB-102	-	-	C098	98	PCB-152	20.5	-		
PCB-103	220	-			PCB-153	9490	-		
PCB-104	ND	0.613			PCB-154	190	-		
PCB-105	4340	-			PCB-155	ND	0.753		
PCB-106	12000	-	C	118	PCB-156	1450	-		
PCB-107	1000	-	C	108	PCB-157	366	-		
PCB-108	-	-	C107	107	PCB-158	1470	-	C	160
PCB-109	ND	0.728			PCB-159	59.3	-		
PCB-110	15300	-			PCB-160	-	-	C158	158
PCB-111	147	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.732			PCB-163	-	-	C138	138/164
PCB-114	237	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	58.4	-		
PCB-117	-	-	C087	87/125	PCB-167	552	-		
PCB-118	-	-	C106	106	PCB-168	20.4	-		
PCB-119	505	-			PCB-169	ND	0.760		
PCB-120	64.9	-			PCB-170	2200	-		
PCB-121	ND	0.701			PCB-171	590	-		
PCB-122	142	-			PCB-172	347	-		
PCB-123	144	-			PCB-173	50.4	-		
PCB-124	445	-			PCB-174	1700	-		
PCB-125	-	-	C087	87/117	PCB-175	79.7	-		
PCB-126	54.7	-			PCB-176	253	-		
PCB-127	ND	0.937			PCB-177	1250	-		
PCB-128	2560	-	C	162	PCB-178	350	-		
PCB-129	721	-			PCB-179	719	-		
PCB-130	965	-			PCB-180	3310	-		
PCB-131	396	-	C	133	PCB-181	ND	1.15		
PCB-132	4560	-	C	161	PCB-182	1970	-	C	187
PCB-133	-	-	C131	131	PCB-183	1000	-		
PCB-134	836	-	C	143	PCB-184	2.38	-	J	
PCB-135	1650	-			PCB-185	170	-		
PCB-136	1890	-			PCB-186	ND	0.797		
PCB-137	840	-			PCB-187	-	-	C182	182
PCB-138	11500	-	C	163/164	PCB-188	4.05	-		
PCB-139	9700	-	C	149	PCB-189	77.7	-		
PCB-140	104	-			PCB-190	389	-		
PCB-141	1980	-			PCB-191	84.2	-		
PCB-142	3.46	-	J		PCB-192	ND	0.973		
PCB-143	-	-	C134	134	PCB-193	192	-		
PCB-144	493	-			PCB-194	667	-		
PCB-145	7.41	-			PCB-195	216	-		
PCB-146	1480	-	C	165	PCB-196	765	-	C	203
PCB-147	325	-			PCB-197	26.7	-		
PCB-148	ND	1.17			PCB-198	33.5	-		
PCB-149	-	-	C139	139	PCB-199	809	-		
PCB-150	22.8	-			PCB-200	81.9	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-011-SA
Client ID: LDW-BA-IN-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.06 g
% Solids: 58.31

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	91.4	-		
PCB-202	129	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.933		
PCB-205	29.8	-		
PCB-206	402	-		
PCB-207	32.4	-		
PCB-208	94.5	-		
PCB-209	460	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	75.5	5.00 - 145	
13C-PCB-3	84.4	5.00 - 145	
13C-PCB-4	94.2	5.00 - 145	
13C-PCB-15	99.3	5.00 - 145	
13C-PCB-19	80.4	5.00 - 145	
13C-PCB-37	109	5.00 - 145	
13C-PCB-54	103	5.00 - 145	
13C-PCB-77	118	10.0 - 145	
13C-PCB-81	114	10.0 - 145	
13C-PCB-104	77.0	10.0 - 145	
13C-PCB-105	118	10.0 - 145	
13C-PCB-114	114	10.0 - 145	
13C-PCB-118	119	10.0 - 145	
13C-PCB-123	119	10.0 - 145	
13C-PCB-126	129	10.0 - 145	
13C-PCB-155	85.2	10.0 - 145	
13C-PCB-156	110	10.0 - 145	
13C-PCB-157	105	10.0 - 145	
13C-PCB-167	106	10.0 - 145	
13C-PCB-169	108	10.0 - 145	
13C-PCB-188	78.3	10.0 - 145	
13C-PCB-189	94.4	10.0 - 145	
13C-PCB-202	77.3	10.0 - 145	
13C-PCB-205	96.2	10.0 - 145	
13C-PCB-206	91.6	10.0 - 145	
13C-PCB-208	87.1	10.0 - 145	
13C-PCB-209	76.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	123	5.00 - 145	
13C-PCB-111	102	10.0 - 145	
13C-PCB-178	88.5	10.0 - 145	

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

Analyst: _____

Date: 10/11/2016

Reviewed By: _____

Date: 10/11/2016

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EPA Method 1668
PCBs

FAL ID: 10147-012-SA
Client ID: LDW-BA-IN-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.02 g
% Solids: 60.21

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016
Total Conc: 120000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	420	-			PCB-51	80.3	-		
PCB-2	40.3	-			PCB-52	4180	-	C	69
PCB-3	196	-			PCB-53	266	-		
PCB-4	226	-			PCB-54	3.89	-	J	
PCB-5	ND	0.898			PCB-55	102	-		
PCB-6	256	-			PCB-56	1110	-	C	60
PCB-7	62.3	-			PCB-57	60.5	-		
PCB-8	722	-			PCB-58	17.6	-		
PCB-9	55.4	-			PCB-59	-	-	C042	42
PCB-10	12.8	-			PCB-60	-	-	C056	56
PCB-11	23.9	-			PCB-61	2790	-	C	70
PCB-12	21.6	-			PCB-62	ND	0.918		
PCB-13	93.8	-			PCB-63	115	-		
PCB-14	ND	0.921			PCB-64	-	-	C041	41/71/72
PCB-15	328	-			PCB-65	ND	0.921		
PCB-16	332	-			PCB-66	2200	-	C	76
PCB-17	456	-			PCB-67	179	-		
PCB-18	1040	-			PCB-68	34.6	-		
PCB-19	72.5	-			PCB-69	-	-	C052	52
PCB-20	814	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	437	-			PCB-72	-	-	C041	41/64/71
PCB-23	2.70	-	J		PCB-73	ND	0.854		
PCB-24	44.2	-			PCB-74	965	-		
PCB-25	305	-			PCB-75	-	-	C048	48
PCB-26	1060	-			PCB-76	-	-	C066	66
PCB-27	37.6	-			PCB-77	178	-		
PCB-28	1330	-			PCB-78	14.5	-		
PCB-29	10.1	-			PCB-79	45.7	-		
PCB-30	ND	1.19			PCB-80	ND	0.719		
PCB-31	1410	-			PCB-81	68.1	-		
PCB-32	286	-			PCB-82	700	-		
PCB-33	-	-	C020	20/21	PCB-83	331	-	C	112
PCB-34	19.4	-			PCB-84	2980	-	C	92
PCB-35	27.9	-			PCB-85	894	-	C	116
PCB-36	1.98	-	J		PCB-86	ND	1.04		
PCB-37	370	-			PCB-87	2300	-	C	117/125
PCB-38	9.12	-			PCB-88	6160	-	C	91
PCB-39	6.82	-			PCB-89	54.9	-		
PCB-40	293	-			PCB-90	6230	-	C	101
PCB-41	1480	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	612	-	C	59	PCB-92	-	-	C084	84
PCB-43	2730	-	C	49	PCB-93	ND	1.97		
PCB-44	2380	-			PCB-94	35.1	-		
PCB-45	246	-			PCB-95	8060	-		
PCB-46	104	-			PCB-96	40.3	-		
PCB-47	501	-			PCB-97	1580	-		
PCB-48	361	-	C	75	PCB-98	ND	1.17	C	102
PCB-49	-	-	C043	43	PCB-99	2630	-		
PCB-50	8.08	-			PCB-100	32.7	-		

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EPA Method 1668
PCBs

FAL ID: 10147-012-SA
Client ID: LDW-BA-IN-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.02 g
% Solids: 60.21

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	1110	-		
PCB-102	-	-	C098	98	PCB-152	9.08	-		
PCB-103	88.2	-			PCB-153	5180	-		
PCB-104	ND	1.09			PCB-154	84.5	-		
PCB-105	2320	-			PCB-155	ND	0.931		
PCB-106	6330	-	C	118	PCB-156	786	-		
PCB-107	510	-	C	108	PCB-157	194	-		
PCB-108	-	-	C107	107	PCB-158	759	-	C	160
PCB-109	1.63	-	J		PCB-159	43.1	-		
PCB-110	6690	-			PCB-160	-	-	C158	158
PCB-111	72.0	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.823			PCB-163	-	-	C138	138/164
PCB-114	129	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	34.4	-		
PCB-117	-	-	C087	87/125	PCB-167	307	-		
PCB-118	-	-	C106	106	PCB-168	8.62	-		
PCB-119	184	-			PCB-169	ND	0.962		
PCB-120	25.4	-			PCB-170	1330	-		
PCB-121	ND	1.25			PCB-171	339	-		
PCB-122	78.9	-			PCB-172	203	-		
PCB-123	78.5	-			PCB-173	31.4	-		
PCB-124	222	-			PCB-174	979	-		
PCB-125	-	-	C087	87/117	PCB-175	50.2	-		
PCB-126	35.3	-			PCB-176	137	-		
PCB-127	ND	1.21			PCB-177	688	-		
PCB-128	1230	-	C	162	PCB-178	201	-		
PCB-129	378	-			PCB-179	396	-		
PCB-130	496	-			PCB-180	2000	-		
PCB-131	192	-	C	133	PCB-181	ND	1.63		
PCB-132	2120	-	C	161	PCB-182	1120	-	C	187
PCB-133	-	-	C131	131	PCB-183	558	-		
PCB-134	401	-	C	143	PCB-184	ND	1.07		
PCB-135	769	-			PCB-185	105	-		
PCB-136	894	-			PCB-186	ND	1.14		
PCB-137	418	-			PCB-187	-	-	C182	182
PCB-138	5920	-	C	163/164	PCB-188	ND	1.25		
PCB-139	4620	-	C	149	PCB-189	47.4	-		
PCB-140	43.1	-			PCB-190	245	-		
PCB-141	1050	-			PCB-191	51.5	-		
PCB-142	ND	1.52			PCB-192	ND	1.39		
PCB-143	-	-	C134	134	PCB-193	110	-		
PCB-144	268	-			PCB-194	390	-		
PCB-145	3.95	-	J		PCB-195	144	-		
PCB-146	784	-	C	165	PCB-196	513	-	C	203
PCB-147	151	-			PCB-197	16.7	-		
PCB-148	ND	1.45			PCB-198	24.3	-		
PCB-149	-	-	C139	139	PCB-199	502	-		
PCB-150	9.47	-			PCB-200	53.1	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-012-SA
Client ID: LDW-BA-IN-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.02 g
% Solids: 60.21

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	55.8	-		
PCB-202	77.8	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.31		
PCB-205	19.4	-		
PCB-206	150	-		
PCB-207	20.3	-		
PCB-208	36.4	-		
PCB-209	243	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	74.6	5.00 - 145	
13C-PCB-3	74.4	5.00 - 145	
13C-PCB-4	89.7	5.00 - 145	
13C-PCB-15	97.2	5.00 - 145	
13C-PCB-19	76.6	5.00 - 145	
13C-PCB-37	115	5.00 - 145	
13C-PCB-54	101	5.00 - 145	
13C-PCB-77	119	10.0 - 145	
13C-PCB-81	126	10.0 - 145	
13C-PCB-104	75.2	10.0 - 145	
13C-PCB-105	119	10.0 - 145	
13C-PCB-114	118	10.0 - 145	
13C-PCB-118	117	10.0 - 145	
13C-PCB-123	125	10.0 - 145	
13C-PCB-126	131	10.0 - 145	
13C-PCB-155	84.1	10.0 - 145	
13C-PCB-156	109	10.0 - 145	
13C-PCB-157	105	10.0 - 145	
13C-PCB-167	106	10.0 - 145	
13C-PCB-169	113	10.0 - 145	
13C-PCB-188	79.6	10.0 - 145	
13C-PCB-189	95.1	10.0 - 145	
13C-PCB-202	76.3	10.0 - 145	
13C-PCB-205	97.3	10.0 - 145	
13C-PCB-206	86.4	10.0 - 145	
13C-PCB-208	83.8	10.0 - 145	
13C-PCB-209	71.4	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	124	5.00 - 145	
13C-PCB-111	99.6	10.0 - 145	
13C-PCB-178	88.6	10.0 - 145	

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

Analyst: _____

Date: 10/11/2016

Reviewed By: _____

Date: 10/11/2016

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EPA Method 1668
PCBs

FAL ID: 10147-013-SA
Client ID: LDW-BA-IN-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.04 g
% Solids: 59.54

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016
Total Conc: 407000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	347	-			PCB-51	413	-		
PCB-2	48.3	-			PCB-52	23500	-	C	69
PCB-3	159	-			PCB-53	1420	-		
PCB-4	562	-			PCB-54	23.4	-		
PCB-5	ND	0.672			PCB-55	913	-		
PCB-6	2300	-			PCB-56	3300	-	C	60
PCB-7	141	-			PCB-57	629	-		
PCB-8	2150	-			PCB-58	99.8	-		
PCB-9	140	-			PCB-59	-	-	C042	42
PCB-10	21.6	-			PCB-60	-	-	C056	56
PCB-11	159	-			PCB-61	6390	-	C	70
PCB-12	29.5	-			PCB-62	ND	0.797		
PCB-13	319	-			PCB-63	508	-		
PCB-14	3.98	-			PCB-64	-	-	C041	41/71/72
PCB-15	695	-			PCB-65	ND	0.800		
PCB-16	1420	-			PCB-66	6860	-	C	76
PCB-17	2370	-			PCB-67	1500	-		
PCB-18	6030	-			PCB-68	149	-		
PCB-19	382	-			PCB-69	-	-	C052	52
PCB-20	3920	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	1930	-			PCB-72	-	-	C041	41/64/71
PCB-23	8.35	-			PCB-73	ND	0.741		
PCB-24	194	-			PCB-74	3420	-		
PCB-25	4600	-			PCB-75	-	-	C048	48
PCB-26	16300	-			PCB-76	-	-	C066	66
PCB-27	184	-			PCB-77	445	-		
PCB-28	6980	-			PCB-78	53.0	-		
PCB-29	39.4	-			PCB-79	100	-		
PCB-30	ND	0.848			PCB-80	ND	0.624		
PCB-31	8140	-			PCB-81	237	-		
PCB-32	1480	-			PCB-82	2380	-		
PCB-33	-	-	C020	20/21	PCB-83	1260	-	C	112
PCB-34	138	-			PCB-84	11200	-	C	92
PCB-35	85.2	-			PCB-85	3080	-	C	116
PCB-36	19.1	-			PCB-86	ND	0.816		
PCB-37	1170	-			PCB-87	8440	-	C	117/125
PCB-38	39.6	-			PCB-88	4320	-	C	91
PCB-39	29.3	-			PCB-89	194	-		
PCB-40	1050	-			PCB-90	15800	-	C	101
PCB-41	5900	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	2740	-	C	59	PCB-92	-	-	C084	84
PCB-43	14200	-	C	49	PCB-93	ND	1.91		
PCB-44	10300	-			PCB-94	152	-		
PCB-45	1120	-			PCB-95	34000	-		
PCB-46	461	-			PCB-96	165	-		
PCB-47	2410	-			PCB-97	4320	-		
PCB-48	1080	-	C	75	PCB-98	ND	1.14	C	102
PCB-49	-	-	C043	43	PCB-99	7770	-		
PCB-50	45.8	-			PCB-100	159	-		

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EPA Method 1668
PCBs

FAL ID: 10147-013-SA
Client ID: LDW-BA-IN-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.04 g
% Solids: 59.54

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	3480	-		
PCB-102	-	-	C098	98	PCB-152	27.8	-		
PCB-103	410	-			PCB-153	13100	-		
PCB-104	ND	1.06			PCB-154	269	-		
PCB-105	6670	-			PCB-155	ND	0.739		
PCB-106	17200	-	C	118	PCB-156	2160	-		
PCB-107	1440	-	C	108	PCB-157	548	-		
PCB-108	-	-	C107	107	PCB-158	2260	-	C	160
PCB-109	13.0	-			PCB-159	109	-		
PCB-110	23000	-			PCB-160	-	-	C158	158
PCB-111	247	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.645			PCB-163	-	-	C138	138/164
PCB-114	416	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	98.6	-		
PCB-117	-	-	C087	87/125	PCB-167	852	-		
PCB-118	-	-	C106	106	PCB-168	25.6	-		
PCB-119	766	-			PCB-169	ND	0.778		
PCB-120	86.4	-			PCB-170	3680	-		
PCB-121	ND	1.22			PCB-171	923	-		
PCB-122	217	-			PCB-172	534	-		
PCB-123	250	-			PCB-173	85.8	-		
PCB-124	724	-			PCB-174	2660	-		
PCB-125	-	-	C087	87/117	PCB-175	127	-		
PCB-126	92.0	-			PCB-176	381	-		
PCB-127	ND	0.914			PCB-177	1900	-		
PCB-128	3890	-	C	162	PCB-178	536	-		
PCB-129	1120	-			PCB-179	1050	-		
PCB-130	1450	-			PCB-180	4970	-		
PCB-131	603	-	C	133	PCB-181	ND	1.23		
PCB-132	6940	-	C	161	PCB-182	2980	-	C	187
PCB-133	-	-	C131	131	PCB-183	1540	-		
PCB-134	1260	-	C	143	PCB-184	2.90	-	J	
PCB-135	2360	-			PCB-185	255	-		
PCB-136	2970	-			PCB-186	ND	0.852		
PCB-137	1370	-			PCB-187	-	-	C182	182
PCB-138	16400	-	C	163/164	PCB-188	4.88	-		
PCB-139	14500	-	C	149	PCB-189	129	-		
PCB-140	144	-			PCB-190	656	-		
PCB-141	3110	-			PCB-191	134	-		
PCB-142	5.32	-			PCB-192	ND	1.04		
PCB-143	-	-	C134	134	PCB-193	286	-		
PCB-144	879	-			PCB-194	972	-		
PCB-145	11.5	-			PCB-195	351	-		
PCB-146	2050	-	C	165	PCB-196	1120	-	C	203
PCB-147	529	-			PCB-197	39.7	-		
PCB-148	ND	1.15			PCB-198	50.7	-		
PCB-149	-	-	C139	139	PCB-199	1150	-		
PCB-150	33.0	-			PCB-200	123	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-013-SA
Client ID: LDW-BA-IN-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.04 g
% Solids: 59.54

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	134	-		
PCB-202	178	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.02		
PCB-205	48.3	-		
PCB-206	311	-		
PCB-207	40.5	-		
PCB-208	73.7	-		
PCB-209	333	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	67.4	5.00 - 145	
13C-PCB-3	74.7	5.00 - 145	
13C-PCB-4	90.3	5.00 - 145	
13C-PCB-15	98.0	5.00 - 145	
13C-PCB-19	78.1	5.00 - 145	
13C-PCB-37	115	5.00 - 145	
13C-PCB-54	109	5.00 - 145	
13C-PCB-77	122	10.0 - 145	
13C-PCB-81	125	10.0 - 145	
13C-PCB-104	72.0	10.0 - 145	
13C-PCB-105	120	10.0 - 145	
13C-PCB-114	119	10.0 - 145	
13C-PCB-118	118	10.0 - 145	
13C-PCB-123	123	10.0 - 145	
13C-PCB-126	133	10.0 - 145	
13C-PCB-155	85.6	10.0 - 145	
13C-PCB-156	110	10.0 - 145	
13C-PCB-157	106	10.0 - 145	
13C-PCB-167	105	10.0 - 145	
13C-PCB-169	113	10.0 - 145	
13C-PCB-188	80.2	10.0 - 145	
13C-PCB-189	93.3	10.0 - 145	
13C-PCB-202	78.6	10.0 - 145	
13C-PCB-205	98.5	10.0 - 145	
13C-PCB-206	83.7	10.0 - 145	
13C-PCB-208	82.8	10.0 - 145	
13C-PCB-209	70.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	139	5.00 - 145	
13C-PCB-111	105	10.0 - 145	
13C-PCB-178	92.2	10.0 - 145	

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

Analyst: _____

Date: 10/11/2016

Reviewed By: _____

Date: 10/11/2016

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EPA Method 1668
PCBs

FAL ID: 10147-015-SA
Client ID: LDW-BA-IN-ENR-CA-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.07 g
% Solids: 62.15

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016
Total Conc: 414000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	430	-			PCB-51	138	-		
PCB-2	58.3	-			PCB-52	15600	-	C	69
PCB-3	237	-			PCB-53	574	-		
PCB-4	266	-			PCB-54	5.97	-		
PCB-5	ND	0.769			PCB-55	529	-		
PCB-6	468	-			PCB-56	3050	-	C	60
PCB-7	74.7	-			PCB-57	331	-		
PCB-8	1010	-			PCB-58	ND	0.644		
PCB-9	84.1	-			PCB-59	-	-	C042	42
PCB-10	21.0	-			PCB-60	-	-	C056	56
PCB-11	65.1	-			PCB-61	8930	-	C	70
PCB-12	27.6	-			PCB-62	ND	0.702		
PCB-13	148	-			PCB-63	344	-		
PCB-14	ND	0.788			PCB-64	-	-	C041	41/71/72
PCB-15	509	-			PCB-65	ND	0.704		
PCB-16	464	-			PCB-66	6290	-	C	76
PCB-17	691	-			PCB-67	958	-		
PCB-18	1640	-			PCB-68	113	-		
PCB-19	97.7	-			PCB-69	-	-	C052	52
PCB-20	1960	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	934	-			PCB-72	-	-	C041	41/64/71
PCB-23	4.10	-			PCB-73	ND	0.653		
PCB-24	62.3	-			PCB-74	2730	-		
PCB-25	1480	-			PCB-75	-	-	C048	48
PCB-26	6530	-			PCB-76	-	-	C066	66
PCB-27	62.4	-			PCB-77	486	-		
PCB-28	2960	-			PCB-78	66.1	-		
PCB-29	21.8	-			PCB-79	209	-		
PCB-30	ND	0.784			PCB-80	ND	0.549		
PCB-31	3720	-			PCB-81	320	-		
PCB-32	446	-			PCB-82	2790	-		
PCB-33	-	-	C020	20/21	PCB-83	1360	-	C	112
PCB-34	47.3	-			PCB-84	11900	-	C	92
PCB-35	61.1	-			PCB-85	3610	-	C	116
PCB-36	10.8	-			PCB-86	28.7	-		
PCB-37	671	-			PCB-87	9700	-	C	117/125
PCB-38	33.8	-			PCB-88	4640	-	C	91
PCB-39	14.6	-			PCB-89	194	-		
PCB-40	533	-			PCB-90	23700	-	C	101
PCB-41	3100	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1400	-	C	59	PCB-92	-	-	C084	84
PCB-43	8700	-	C	49	PCB-93	ND	1.79		
PCB-44	6600	-			PCB-94	143	-		
PCB-45	423	-			PCB-95	37500	-		
PCB-46	179	-			PCB-96	125	-		
PCB-47	1430	-			PCB-97	6210	-		
PCB-48	596	-	C	75	PCB-98	ND	1.06	C	102
PCB-49	-	-	C043	43	PCB-99	10300	-		
PCB-50	16.6	-			PCB-100	158	-		

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EPA Method 1668
PCBs

FAL ID: 10147-015-SA
Client ID: LDW-BA-IN-ENR-CA-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.07 g
% Solids: 62.15

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	4240	-		
PCB-102	-	-	C098	98	PCB-152	31.5	-		
PCB-103	374	-			PCB-153	18100	-		
PCB-104	ND	0.994			PCB-154	318	-		
PCB-105	10500	-			PCB-155	ND	0.689		
PCB-106	26900	-	C	118	PCB-156	3140	-		
PCB-107	2210	-	C	108	PCB-157	769	-		
PCB-108	-	-	C107	107	PCB-158	3030	-	C	160
PCB-109	5.60	-			PCB-159	126	-		
PCB-110	27400	-			PCB-160	-	-	C158	158
PCB-111	314	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.960			PCB-163	-	-	C138	138/164
PCB-114	585	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	126	-		
PCB-117	-	-	C087	87/125	PCB-167	1180	-		
PCB-118	-	-	C106	106	PCB-168	32.0	-		
PCB-119	759	-			PCB-169	ND	0.823		
PCB-120	110	-			PCB-170	4440	-		
PCB-121	ND	1.14			PCB-171	1130	-		
PCB-122	292	-			PCB-172	632	-		
PCB-123	337	-			PCB-173	99.7	-		
PCB-124	1030	-			PCB-174	3080	-		
PCB-125	-	-	C087	87/117	PCB-175	146	-		
PCB-126	124	-			PCB-176	439	-		
PCB-127	ND	0.873			PCB-177	2260	-		
PCB-128	5070	-	C	162	PCB-178	611	-		
PCB-129	1580	-			PCB-179	1240	-		
PCB-130	1830	-			PCB-180	6050	-		
PCB-131	767	-	C	133	PCB-181	ND	1.17		
PCB-132	8970	-	C	161	PCB-182	3460	-	C	187
PCB-133	-	-	C131	131	PCB-183	1790	-		
PCB-134	1610	-	C	143	PCB-184	3.34	-	J	
PCB-135	2920	-			PCB-185	296	-		
PCB-136	3420	-			PCB-186	ND	0.815		
PCB-137	1880	-			PCB-187	-	-	C182	182
PCB-138	22700	-	C	163/164	PCB-188	5.88	-		
PCB-139	17600	-	C	149	PCB-189	162	-		
PCB-140	185	-			PCB-190	802	-		
PCB-141	4110	-			PCB-191	162	-		
PCB-142	5.97	-			PCB-192	ND	0.996		
PCB-143	-	-	C134	134	PCB-193	336	-		
PCB-144	1080	-			PCB-194	1260	-		
PCB-145	12.8	-			PCB-195	479	-		
PCB-146	3090	-	C	165	PCB-196	1440	-	C	203
PCB-147	663	-			PCB-197	46.7	-		
PCB-148	ND	1.07			PCB-198	63.5	-		
PCB-149	-	-	C139	139	PCB-199	1380	-		
PCB-150	36.9	-			PCB-200	149	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-015-SA
Client ID: LDW-BA-IN-ENR-CA-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.07 g
% Solids: 62.15

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	160	-		
PCB-202	217	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.965		
PCB-205	61.4	-		
PCB-206	463	-		
PCB-207	57.9	-		
PCB-208	107	-		
PCB-209	260	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	70.7	5.00 - 145	
13C-PCB-3	81.7	5.00 - 145	
13C-PCB-4	89.2	5.00 - 145	
13C-PCB-15	97.3	5.00 - 145	
13C-PCB-19	79.2	5.00 - 145	
13C-PCB-37	107	5.00 - 145	
13C-PCB-54	108	5.00 - 145	
13C-PCB-77	123	10.0 - 145	
13C-PCB-81	127	10.0 - 145	
13C-PCB-104	69.2	10.0 - 145	
13C-PCB-105	122	10.0 - 145	
13C-PCB-114	123	10.0 - 145	
13C-PCB-118	121	10.0 - 145	
13C-PCB-123	129	10.0 - 145	
13C-PCB-126	134	10.0 - 145	
13C-PCB-155	87.6	10.0 - 145	
13C-PCB-156	112	10.0 - 145	
13C-PCB-157	108	10.0 - 145	
13C-PCB-167	106	10.0 - 145	
13C-PCB-169	111	10.0 - 145	
13C-PCB-188	87.3	10.0 - 145	
13C-PCB-189	92.8	10.0 - 145	
13C-PCB-202	82.0	10.0 - 145	
13C-PCB-205	101	10.0 - 145	
13C-PCB-206	83.3	10.0 - 145	
13C-PCB-208	86.6	10.0 - 145	
13C-PCB-209	68.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	149	5.00 - 145	A
13C-PCB-111	105	10.0 - 145	
13C-PCB-178	99.2	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: 10/11/2016

Reviewed By: _____

Date: 10/11/2016

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EPA Method 1668
PCBs

FAL ID: 10147-016-SA
Client ID: LDW-BA-IN-ENR-CB-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.02 g
% Solids: 59.57

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016
Total Conc: 225000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	166	-			PCB-51	111	-		
PCB-2	21.8	-			PCB-52	10100	-	C	69
PCB-3	86.1	-			PCB-53	437	-		
PCB-4	159	-			PCB-54	5.80	-		
PCB-5	ND	0.849			PCB-55	339	-		
PCB-6	465	-			PCB-56	1580	-	C	60
PCB-7	42.9	-			PCB-57	219	-		
PCB-8	590	-			PCB-58	ND	0.676		
PCB-9	39.2	-			PCB-59	-	-	C042	42
PCB-10	9.37	-			PCB-60	-	-	C056	56
PCB-11	52.4	-			PCB-61	3850	-	C	70
PCB-12	11.6	-			PCB-62	ND	0.737		
PCB-13	109	-			PCB-63	200	-		
PCB-14	ND	0.870			PCB-64	-	-	C041	41/71/72
PCB-15	255	-			PCB-65	ND	0.740		
PCB-16	359	-			PCB-66	3280	-	C	76
PCB-17	587	-			PCB-67	604	-		
PCB-18	1490	-			PCB-68	65.0	-		
PCB-19	85.6	-			PCB-69	-	-	C052	52
PCB-20	1210	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	612	-			PCB-72	-	-	C041	41/64/71
PCB-23	3.52	-	J		PCB-73	ND	0.686		
PCB-24	34.0	-			PCB-74	1490	-		
PCB-25	1140	-			PCB-75	-	-	C048	48
PCB-26	4600	-			PCB-76	-	-	C066	66
PCB-27	56.3	-			PCB-77	240	-		
PCB-28	2190	-			PCB-78	41.5	-		
PCB-29	11.5	-			PCB-79	119	-		
PCB-30	ND	0.861			PCB-80	ND	0.577		
PCB-31	2340	-			PCB-81	207	-		
PCB-32	388	-			PCB-82	1550	-		
PCB-33	-	-	C020	20/21	PCB-83	715	-	C	112
PCB-34	37.5	-			PCB-84	6740	-	C	92
PCB-35	33.9	-			PCB-85	1920	-	C	116
PCB-36	7.57	-			PCB-86	16.2	-		
PCB-37	412	-			PCB-87	5320	-	C	117/125
PCB-38	21.8	-			PCB-88	2270	-	C	91
PCB-39	8.31	-			PCB-89	101	-		
PCB-40	441	-			PCB-90	12100	-	C	101
PCB-41	2420	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1080	-	C	59	PCB-92	-	-	C084	84
PCB-43	5560	-	C	49	PCB-93	ND	1.50		
PCB-44	4830	-			PCB-94	76.1	-		
PCB-45	371	-			PCB-95	19300	-		
PCB-46	153	-			PCB-96	86.1	-		
PCB-47	877	-			PCB-97	3180	-		
PCB-48	445	-	C	75	PCB-98	ND	0.888	C	102
PCB-49	-	-	C043	43	PCB-99	5130	-		
PCB-50	12.9	-			PCB-100	65.3	-		

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EPA Method 1668
PCBs

FAL ID: 10147-016-SA
Client ID: LDW-BA-IN-ENR-CB-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.02 g
% Solids: 59.57

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	2160	-		
PCB-102	-	-	C098	98	PCB-152	18.9	-		
PCB-103	171	-			PCB-153	9670	-		
PCB-104	ND	0.832			PCB-154	155	-		
PCB-105	4800	-			PCB-155	ND	0.634		
PCB-106	13100	-	C	118	PCB-156	1640	-		
PCB-107	1010	-	C	108	PCB-157	399	-		
PCB-108	-	-	C107	107	PCB-158	1640	-	C	160
PCB-109	4.33	-			PCB-159	63.8	-		
PCB-110	14700	-			PCB-160	-	-	C158	158
PCB-111	161	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.905			PCB-163	-	-	C138	138/164
PCB-114	300	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	74.2	-		
PCB-117	-	-	C087	87/125	PCB-167	615	-		
PCB-118	-	-	C106	106	PCB-168	17.1	-		
PCB-119	360	-			PCB-169	ND	0.696		
PCB-120	46.4	-			PCB-170	2150	-		
PCB-121	ND	0.951			PCB-171	521	-		
PCB-122	163	-			PCB-172	304	-		
PCB-123	176	-			PCB-173	51.7	-		
PCB-124	566	-			PCB-174	1480	-		
PCB-125	-	-	C087	87/117	PCB-175	63.3	-		
PCB-126	65.1	-			PCB-176	213	-		
PCB-127	ND	0.801			PCB-177	1030	-		
PCB-128	2760	-	C	162	PCB-178	287	-		
PCB-129	850	-			PCB-179	584	-		
PCB-130	1010	-			PCB-180	2910	-		
PCB-131	403	-	C	133	PCB-181	ND	1.02		
PCB-132	4890	-	C	161	PCB-182	1580	-	C	187
PCB-133	-	-	C131	131	PCB-183	857	-		
PCB-134	848	-	C	143	PCB-184	2.21	-	J	
PCB-135	1510	-			PCB-185	147	-		
PCB-136	1900	-			PCB-186	ND	0.706		
PCB-137	989	-			PCB-187	-	-	C182	182
PCB-138	12300	-	C	163/164	PCB-188	2.53	-	J	
PCB-139	9290	-	C	149	PCB-189	80.8	-		
PCB-140	84.5	-			PCB-190	379	-		
PCB-141	2210	-			PCB-191	79.7	-		
PCB-142	3.72	-	J		PCB-192	ND	0.863		
PCB-143	-	-	C134	134	PCB-193	154	-		
PCB-144	599	-			PCB-194	584	-		
PCB-145	7.41	-			PCB-195	203	-		
PCB-146	1510	-	C	165	PCB-196	638	-	C	203
PCB-147	347	-			PCB-197	21.0	-		
PCB-148	ND	0.984			PCB-198	24.3	-		
PCB-149	-	-	C139	139	PCB-199	652	-		
PCB-150	19.1	-			PCB-200	67.6	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-016-SA
Client ID: LDW-BA-IN-ENR-CB-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.02 g
% Solids: 59.57

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	70.2	-		
PCB-202	97.4	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.825		
PCB-205	27.6	-		
PCB-206	337	-		
PCB-207	27.7	-		
PCB-208	81.9	-		
PCB-209	608	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	77.2	5.00 - 145	
13C-PCB-3	85.5	5.00 - 145	
13C-PCB-4	94.7	5.00 - 145	
13C-PCB-15	101	5.00 - 145	
13C-PCB-19	83.9	5.00 - 145	
13C-PCB-37	120	5.00 - 145	
13C-PCB-54	103	5.00 - 145	
13C-PCB-77	126	10.0 - 145	
13C-PCB-81	131	10.0 - 145	
13C-PCB-104	75.5	10.0 - 145	
13C-PCB-105	122	10.0 - 145	
13C-PCB-114	122	10.0 - 145	
13C-PCB-118	121	10.0 - 145	
13C-PCB-123	127	10.0 - 145	
13C-PCB-126	132	10.0 - 145	
13C-PCB-155	88.8	10.0 - 145	
13C-PCB-156	107	10.0 - 145	
13C-PCB-157	107	10.0 - 145	
13C-PCB-167	109	10.0 - 145	
13C-PCB-169	112	10.0 - 145	
13C-PCB-188	86.4	10.0 - 145	
13C-PCB-189	97.0	10.0 - 145	
13C-PCB-202	83.5	10.0 - 145	
13C-PCB-205	98.5	10.0 - 145	
13C-PCB-206	85.4	10.0 - 145	
13C-PCB-208	83.4	10.0 - 145	
13C-PCB-209	69.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	148	5.00 - 145	A
13C-PCB-111	102	10.0 - 145	
13C-PCB-178	97.8	10.0 - 145	

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

Analyst: _____

Date: 10/11/2016

Reviewed By: _____

Date: 10/11/2016

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-017-SA
Client ID: LDW-BA-IN-ENR-CC-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.03 g
% Solids: 58.79

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016
Total Conc: 80300

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	1760	-			PCB-51	48.8	-		
PCB-2	250	-			PCB-52	2590	-	C	69
PCB-3	1100	-			PCB-53	163	-		
PCB-4	666	-			PCB-54	2.50	-	J	
PCB-5	ND	0.734			PCB-55	60.5	-		
PCB-6	655	-			PCB-56	877	-	C	60
PCB-7	161	-			PCB-57	25.2	-		
PCB-8	2040	-			PCB-58	8.23	-		
PCB-9	233	-			PCB-59	-	-	C042	42
PCB-10	50.9	-			PCB-60	-	-	C056	56
PCB-11	44.8	-			PCB-61	2060	-	C	70
PCB-12	117	-			PCB-62	ND	0.728		
PCB-13	323	-			PCB-63	69.0	-		
PCB-14	ND	0.753			PCB-64	-	-	C041	41/71/72
PCB-15	1250	-			PCB-65	ND	0.730		
PCB-16	172	-			PCB-66	1370	-	C	76
PCB-17	282	-			PCB-67	81.6	-		
PCB-18	655	-			PCB-68	13.7	-		
PCB-19	44.3	-			PCB-69	-	-	C052	52
PCB-20	572	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	299	-			PCB-72	-	-	C041	41/64/71
PCB-23	1.91	-	J		PCB-73	ND	0.677		
PCB-24	23.8	-			PCB-74	670	-		
PCB-25	183	-			PCB-75	-	-	C048	48
PCB-26	613	-			PCB-76	-	-	C066	66
PCB-27	29.4	-			PCB-77	180	-		
PCB-28	981	-			PCB-78	12.0	-		
PCB-29	10.6	-			PCB-79	36.7	-		
PCB-30	ND	0.821			PCB-80	ND	0.570		
PCB-31	949	-			PCB-81	69.1	-		
PCB-32	212	-			PCB-82	480	-		
PCB-33	-	-	C020	20/21	PCB-83	208	-	C	112
PCB-34	13.1	-			PCB-84	1900	-	C	92
PCB-35	24.8	-			PCB-85	621	-	C	116
PCB-36	ND	0.518			PCB-86	11.7	-		
PCB-37	44.8	-			PCB-87	1630	-	C	117/125
PCB-38	7.82	-			PCB-88	613	-	C	91
PCB-39	2.64	-	J		PCB-89	35.0	-		
PCB-40	176	-			PCB-90	4340	-	C	101
PCB-41	933	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	339	-	C	59	PCB-92	-	-	C084	84
PCB-43	1480	-	C	49	PCB-93	ND	1.26		
PCB-44	1480	-			PCB-94	23.2	-		
PCB-45	151	-			PCB-95	5080	-		
PCB-46	60.2	-			PCB-96	26.1	-		
PCB-47	295	-			PCB-97	1080	-		
PCB-48	203	-	C	75	PCB-98	ND	0.749	C	102
PCB-49	-	-	C043	43	PCB-99	1720	-		
PCB-50	4.29	-			PCB-100	18.2	-		

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EPA Method 1668
PCBs

FAL ID: 10147-017-SA
Client ID: LDW-BA-IN-ENR-CC-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.03 g
% Solids: 58.79

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	680	-		
PCB-102	-	-	C098	98	PCB-152	5.62	-		
PCB-103	45.6	-			PCB-153	3160	-		
PCB-104	ND	0.701			PCB-154	50.8	-		
PCB-105	1800	-			PCB-155	ND	0.615		
PCB-106	4550	-	C	118	PCB-156	472	-		
PCB-107	341	-	C	108	PCB-157	118	-		
PCB-108	-	-	C107	107	PCB-158	501	-	C	160
PCB-109	1.59	-	J		PCB-159	21.0	-		
PCB-110	4370	-			PCB-160	-	-	C158	158
PCB-111	60.6	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.882			PCB-163	-	-	C138	138/164
PCB-114	104	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	20.1	-		
PCB-117	-	-	C087	87/125	PCB-167	200	-		
PCB-118	-	-	C106	106	PCB-168	5.64	-		
PCB-119	97.8	-			PCB-169	ND	0.697		
PCB-120	14.4	-			PCB-170	746	-		
PCB-121	ND	0.801			PCB-171	197	-		
PCB-122	57.0	-			PCB-172	121	-		
PCB-123	66.7	-			PCB-173	14.6	-		
PCB-124	197	-			PCB-174	562	-		
PCB-125	-	-	C087	87/117	PCB-175	26.0	-		
PCB-126	34.5	-			PCB-176	80.3	-		
PCB-127	ND	0.830			PCB-177	402	-		
PCB-128	756	-	C	162	PCB-178	114	-		
PCB-129	248	-			PCB-179	230	-		
PCB-130	288	-			PCB-180	1110	-		
PCB-131	124	-	C	133	PCB-181	ND	1.07		
PCB-132	1280	-	C	161	PCB-182	651	-	C	187
PCB-133	-	-	C131	131	PCB-183	342	-		
PCB-134	238	-	C	143	PCB-184	ND	0.702		
PCB-135	463	-			PCB-185	60.1	-		
PCB-136	550	-			PCB-186	ND	0.744		
PCB-137	283	-			PCB-187	-	-	C182	182
PCB-138	3670	-	C	163/164	PCB-188	ND	0.807		
PCB-139	2820	-	C	149	PCB-189	27.7	-		
PCB-140	23.1	-			PCB-190	143	-		
PCB-141	678	-			PCB-191	30.9	-		
PCB-142	ND	1.07			PCB-192	ND	0.910		
PCB-143	-	-	C134	134	PCB-193	64.9	-		
PCB-144	170	-			PCB-194	236	-		
PCB-145	2.48	-	J		PCB-195	91.3	-		
PCB-146	480	-	C	165	PCB-196	273	-	C	203
PCB-147	93.6	-			PCB-197	13.1	-		
PCB-148	ND	0.955			PCB-198	15.7	-		
PCB-149	-	-	C139	139	PCB-199	271	-		
PCB-150	6.61	-			PCB-200	30.7	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10147-017-SA
Client ID: LDW-BA-IN-ENR-CC-CORE
Matrix: Sediment
Batch No: X3857

Date Extracted: 09-26-2016
Date Received: 09-15-2016
Amount: 5.03 g
% Solids: 58.79

ICal: DAILY209FAL4-9-28-16Y
GC Column: DB1
Units: pg/g

Acquired: 09-29-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	32.9	-		
PCB-202	43.0	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.911		
PCB-205	12.3	-		
PCB-206	96.6	-		
PCB-207	12.3	-		
PCB-208	27.6	-		
PCB-209	87.2	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	80.0	5.00 - 145	
13C-PCB-3	85.1	5.00 - 145	
13C-PCB-4	95.8	5.00 - 145	
13C-PCB-15	100	5.00 - 145	
13C-PCB-19	84.2	5.00 - 145	
13C-PCB-37	121	5.00 - 145	
13C-PCB-54	101	5.00 - 145	
13C-PCB-77	123	10.0 - 145	
13C-PCB-81	127	10.0 - 145	
13C-PCB-104	76.3	10.0 - 145	
13C-PCB-105	120	10.0 - 145	
13C-PCB-114	119	10.0 - 145	
13C-PCB-118	121	10.0 - 145	
13C-PCB-123	124	10.0 - 145	
13C-PCB-126	134	10.0 - 145	
13C-PCB-155	87.6	10.0 - 145	
13C-PCB-156	111	10.0 - 145	
13C-PCB-157	111	10.0 - 145	
13C-PCB-167	109	10.0 - 145	
13C-PCB-169	113	10.0 - 145	
13C-PCB-188	83.9	10.0 - 145	
13C-PCB-189	95.4	10.0 - 145	
13C-PCB-202	84.2	10.0 - 145	
13C-PCB-205	96.0	10.0 - 145	
13C-PCB-206	86.3	10.0 - 145	
13C-PCB-208	82.9	10.0 - 145	
13C-PCB-209	72.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	136	5.00 - 145	
13C-PCB-111	103	10.0 - 145	
13C-PCB-178	94.3	10.0 - 145	

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

Analyst: _____

Date: 10/11/2016

Reviewed By: _____

Date: 10/11/2016

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

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El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY

Laboratory Project No.: 10147

Temperature: 0 °C

Chain of Custody

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

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Floyd Snider	Company Name: Amec Foster Wheeler	FAL Quote #: 3102A
Contact Name: Gretchen Heavner	Contact Name: Diane Shannon	P.O. #: C013106435
Address: 601 Union Street, Suite 600, Seattle WA 98101	Address: 3500 188TH St. SW, Suite 601, Lynnwood WA 98037	Project #: LY15160310
Phone: 206-292-2078 Fax: 206-682-7867	Phone: 425-921-4008 Fax:	Project Name: LDW ENR/AC Pilot Study
Email: gretchen.heavner@floydsnider.com	Email: diane.shannon@amecfw.com	TAT (business days): ✓ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION	REPORT DISTRIBUTION (email only is preferred)	ADDITIONAL INSTRUCTIONS
Report Level: ☐ I/II ☐ III ✓ IV	☐ Hardcopy	EDD format should be as developed with Floyd|Snider and Saylor Data Solutions
✓ EDD: ☐ FAL Basic ☐ Geotracker ✓ Other: FSI ☐ Custom: Contact FAL	☐ CD (.pdf including EDDs if requested)	
	✓ Email (.pdf including EDDs if requested)	

☐ California State Drinking Water Form

System #: Source #:

Sampler: Employer:

**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

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	LDW-BA-SC-ENR+AC-CA-CORE	9/09/16	1008	sediment	1								✓			
2	CB-CORE		0945													
3	CC-CORE		1600													
4	CD-CORE		1630													Cracked lid Hold
5	CE-CORE		1650													Hold
6	LDW-BA-SC-ENR-CA-CORE	9/10/16	1305													
7	CB-CORE		1210													
8	CC-CORE		1225													
9	CD-CORE		1335													Hold
10	CE-CORE	9/12/16	1145													Hold
11	LDW-BA-IN-ENR+AC-CA-CORE	9/14/16	1020													
12	CB-CORE		1055													
13	CC-CORE		0957													
14	CD-CORE	9/13/16	1140													Hold
15	LDW-BA-IN-ENR-CA-CORE	9/14/16	1130													

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
Julia Levengood	9/14/16	1425	Kally Sop KZ Lpp	9-15-16	945

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

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

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FAL USE ONLY

Laboratory Project No.: 10147

Temperature: 0 °C

Chain of Custody

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

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: Diane Shannon	P.O. #: C013106435
Address: 601 Union Street, Suite 600, Seattle WA 98101	Address: 3500 188TH St. SW, Suite 601, Lynnwood WA 98037	Project #: LY15160310
Phone: 206-292-2078 Fax: 206-682-7867	Phone: 425-921-4008 Fax:	Project Name: LDW ENR/AC Pilot Study
Email: gretchen.heavner@floydsnider.com	Email: diane.shannon@amecfw.com	TAT (business days): ✓ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

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	✓ Email (.pdf including EDDs if requested)	

☐ California State Drinking Water Form

System #: Source #:

Sampler: Employer:

**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

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	LDW-BA-IN-ENR-CB-CORE	9/14/16	1040	sediment	1								✓			
2	↓ -CC-CORE	↓	1142	↓	1								✓			
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

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

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Julia Levengood	9/14/16	1425	Kelly Zipp KZipp	9-15-16	945

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

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

Kassandra Hibbard

From: Gretchen Heavner [Gretchen.Heavner@floydsnider.com]
Sent: Thursday, September 15, 2016 1:53 PM
To: Kassandra Hibbard
Subject: RE: 10147 Sample Receipt (LDW ENR/AC Pilot Study) Due: 10/7/2016

Hi Kassandra,
We have had some issues with which samples should be sent and some of these need to be held. Please place the following samples on hold until further notice:

LDW-BA-SC-ENR+AC-CD-CORE 10147.004.SA ✓
LDW-BA-SC-ENR+AC-CE-CORE 10147.005.SA ✓
LDW-BA-SC-ENR-CD-CORE 10147.009.SA ✓
LDW-BA-SC-ENR-CE-CORE 10147.010.SA ✓
LDW-BA-IN-ENR+AC-CD-CORE 10147.014.SA

Thanks!

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

From: Kassandra Hibbard [mailto:kassandrah@frontieranalytical.com]
Sent: Thursday, September 15, 2016 12:47 PM
To: Gretchen Heavner <Gretchen.Heavner@floydsnider.com>; Teri A. Floyd <Teri.Floyd@floydsnider.com>; jessica.youngblood@amecfw.com
Cc: Tom Crabtree <tomc@frontieranalytical.com>; Brad Silverbush <brads@frontieranalytical.com>; Dan Vickers <danv@frontieranalytical.com>; Kathy Zipp <kathyz@frontieranalytical.com>
Subject: 10147 Sample Receipt (LDW ENR/AC Pilot Study) Due: 10/7/2016

Dear Ms. Heavner,

This email confirms the receipt of your twelve sediment samples. The samples were received on September 15, 2016 in good condition. Attached is a PDF of your chain of custody, our sample login form, our project-sample tracking form and a sample photo. The samples have been assigned a Frontier Analytical Laboratory (FAL) project number **10147** (Floyd | Snider ID: **LDW ENR/AC Pilot Study**). In order to expedite inquiries, please reference our project number. These samples will analyzed following EPA Method 1668 for all 209 PCBs.

A fifteen (15) business-day turnaround time will be provided for this work.

If you have any questions regarding this project, please call us at (916) 934-0900.

Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Kassandra Hibbard
Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **10147**

Client:	Floyd | Snider
Client Project ID:	LDW ENR/AC Pilot Study
Date Received:	09/15/2016
Time Received:	09:45 am
Received By:	KZ
Logged In By:	KH
# of Samples Received:	17
Duplicates:	0
Storage Location:	R3

Method of Delivery:	Fed-Ex
Tracking Number:	777231836020
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Blue Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A
Anomalies or additional comments:	

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PROJECT REQUEST SHEET

1-3, 6-8, 11-13, 15-17

Project #:	10147	Sample #:	~~1-17~~ ON 9.19.16	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	09/10/2017
Matrix:	Sediment	Extraction Batch:	3857	Due Date:	10/07/2016
Method:	EPA 1668 PCB			Storage:	R3
SOP:	SOPs: EP1A Rev.9 IP1A Rev.6				

COMMENTS/INSTRUCTIONS:

* Samples 4, 5, 9, 10, 14 on Hold KH 9.16.16

Results:

Extract/s located in box: Yield

Standards: _____

Instrument:
DB5 _____
DB225 _____
DB1 _____
Other _____

Sample #	Sample Sample Control -- Prep		Extract Prep -- Instrument		Extract Instrument -- Storage	
	Initial	Date	Initial	Date	Initial	Date
10147-003-0001-SA						
10147-005-0001-SA						
10147-007-0001-SA						
10147-009-0001-SA						
10147-011-0001-SA						
10147-002-0001-SA						
10147-004-0001-SA						
10147-006-0001-SA						
10147-008-0001-SA						
10147-010-0001-SA						
10147-001-0001-SA						

Frontier Analytical Laboratory
Percent Solids

FAL Project: 10147

Sample ID	Chemist	Date	Wet Sample Weight (g)	Dry Sample Weight (g)	% Solids	~~10g~~ 5g Equiv RR 9.21.16	Wet Wt Oven Temp	Dry Wt Oven Temp	Boat Wt (gms)
10147-001-0001-SA	RR	9.21.16	12.04g	6.34g	52.66%	9.49g	114°c	115°c	1.26g
10147-002-0001-SA	↓	↓	10.18g	5.65g	55.50%	9.01g	↓	↓	1.25g
10147-003-0001-SA	↓	↓	12.67g	6.48g	51.14%	9.78g	↓	↓	1.25g
10147-004-0001-SA	ON	HOLD							RR 9.21.16
10147-005-0001-SA									
10147-006-0001-SA	RR	9.21.16	10.18g	4.66g	45.78%	10.92g	114°c	115°c	1.27g
10147-007-0001-SA	↓	↓	12.90g	6.03g	46.74%	10.70g	↓	↓	1.25g
10147-008-0001-SA	↓	↓	15.20g	7.21g	47.43%	10.54g	↓	↓	1.27g
10147-009-0001-SA	ON	HOLD							RR 9.21.16
10147-010-0001-SA									
10147-011-0001-SA	RR	9.21.16 RR	11.25g	6.56g	58.31%	8.57g	114°c	115°c	1.27g
10147-012-0001-SA	↓	↓	15.96g	9.61g	60.21%	8.30g	↓	↓	1.28g
10147-013-0001-SA	↓	↓	13.79g	8.21g	59.54%	8.40g	↓	↓	1.28g
10147-014-0001-SA	ON	HOLD							RR 9.21.16
10147-015-0001-SA	RR	9.21.16	12.47g	7.75g	62.15%	8.05g	114°c	115°c	1.27g
10147-016-0001-SA	↓	↓	16.15g	9.62g	59.57%	8.39g	↓	↓	1.27g
10147-017-0001-SA	↓	↓	13.59g	7.99g	58.79%	8.50g	↓	↓	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 #: 10147 Extraction Date: 2016-09-26 Extraction Chemist: RR

Method/Analysis: EPA 1668 PCB

Procedure: SOX Solvent: DCM (Methylene Chloride)

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS Amt: 10.0uL ID: R160602A Vial: 4 Chemist/Witness/Date	NS Amt: 10.0uL ID: 160829A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R160816A Vial: 1 Chemist/Witness/Date
03857-001-0001-MB	(5.00g)	(5.00g)	RR 9-26-16	NA	RR KH 9-27-16
03857-001-0001-OPR	(5.00g)	(5.00g)		RR 9-26-16	
10147-001-0001-SA	9.56g	5.03g		NA	
10147-002-0001-SA	9.12g	5.06g			
10147-003-0001-SA	9.79g	5.01g			
10147-006-0001-SA	10.95g	5.01g			
10147-007-0001-SA	10.78g	5.04g			
10147-008-0001-SA	10.63g	5.04g			
10147-011-0001-SA	8.67g	5.06g			
10147-012-0001-SA	8.33g	5.02g			
10147-013-0001-SA	8.47g	5.04g			
10147-015-0001-SA	8.15g	5.07g			
10147-016-0001-SA	8.43g	5.02g			
10147-017-0001-SA	8.55g	5.03g			

AX-21 Charcoal Cleaned	130410	Acetone	162164	Acid Alumina	A0347591	Hexane	162820
Methanol	162125	Methylene Chloride (DCM)	163601	Silica Gel	TA1975634	Sodium Hydroxide 1N	151965
Sodium Sulfate	16B100005	Sulfuric Acid	161853	Tetradecane	157561	Toluene	56097
Water	163604	C-18 Empore Discs	320860D	Cyclohexane	55211		

Comments:

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 10147

Method/Analysis: EPA 1668 PCB

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

Sample ID	Cleanup 1	Cleanup 2	Cleanup 3	RS
	MSG	NA	NA	Amt: 10.0uL ID: 160926A Vial: 1
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
03857-001-0001-MB	RR 9-27-16	NA	NA	RR KH 9-27-16
03857-001-0001-OPR				
10147-001-0001-SA				
10147-002-0001-SA				
10147-003-0001-SA				
10147-006-0001-SA				
10147-007-0001-SA				
10147-008-0001-SA				
10147-011-0001-SA				
10147-012-0001-SA				
10147-013-0001-SA				
10147-015-0001-SA				
10147-016-0001-SA				
10147-017-0001-SA				

AX-21 Charcoal Cleaned	130410	Acetone	162164	Acid Alumina	A0347591	Hexane	162820
Methanol	162125	Methylene Chloride (DCM)	163601	Silica Gel	TA1975634	Sodium Hydroxide 1N	151965
Sodium Sulfate	16B100005	Sulfuric Acid	161853	Tetradecane	157561	Toluene	56097
Water	163604	C-18 Empore Discs	320860D	Cyclohexane	55211		

Comments:

FAL ID: 03857-001-0001-MB Filename: 28SEP16Y Sam:5 Acquired: 28-SEP-16 19:07:40 ICal: DAILY209FAL4-9-28-16Y
Client ID: Method Blank ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.00	*		2320	1880	0.428	
13C-PCB-1	1.30e+08	3.12	y	14:29	1.29	1610					80.7
PCB-2	*	*	n	NotFnd	0.91	*		2320	1880	0.498	
PCB-3	*	*	n	NotFnd	0.96	*		2320	1880	0.502	
13C-PCB-3	1.29e+08	3.18	y	16:54	1.26	1630					81.6
PCB-4	*	*	n	NotFnd	0.95	*		2090	1890	0.941	
PCB-10	*	*	n	NotFnd	1.14	*		3490	1890	0.846	
13C-PCB-4	6.95e+07	1.56	y	18:09	0.64	1730					86.6
PCB-9	*	*	n	NotFnd	1.21	*		3490	1890	0.798	
PCB-7	*	*	n	NotFnd	1.16	*		3490	1890	0.833	
PCB-6	*	*	n	NotFnd	1.14	*		3490	1890	0.848	
PCB-8	*	*	n	NotFnd	1.15	*		3490	1890	0.843	
PCB-5	*	*	n	NotFnd	1.17	*		3490	1890	0.827	
PCB-14	*	*	n	NotFnd	1.14	*		3490	1890	0.847	
PCB-11	*	*	n	NotFnd	1.10	*		3490	1890	0.878	
PCB-13	*	*	n	NotFnd	1.08	*		3490	1890	0.896	
PCB-12	*	*	n	NotFnd	1.17	*		3490	1890	0.829	
PCB-15	*	*	n	NotFnd	1.08	*		3490	1890	0.760	
13C-PCB-15	1.16e+08	1.60	y	23:40	1.00	1860					92.9
PCB-19	*	*	n	NotFnd	1.04	*		1420	1500	0.691	
PCB-30	*	*	n	NotFnd	1.45	*		1420	1500	0.496	
PCB-18	*	*	n	NotFnd	1.01	*		1420	1500	0.709	
PCB-17	*	*	n	NotFnd	1.08	*		1420	1500	0.667	
PCB-27	*	*	n	NotFnd	1.55	*		1420	1500	0.463	
PCB-24	*	*	n	NotFnd	1.32	*		1420	1500	0.544	
PCB-16	*	*	n	NotFnd	1.15	*		1420	1500	0.624	
PCB-32	*	*	n	NotFnd	1.34	*		1420	1500	0.536	
13C-PCB-19	7.11e+07	1.06	y	22:02	0.66	1720					85.9
13C-PCB-9	1.25e+08	1.59	y	19:49	-	15.1					
PCB-34	*	*	n	NotFnd	0.81	*		1500	999	0.694	
PCB-23	*	*	n	NotFnd	0.90	*		1500	999	0.625	
PCB-29	*	*	n	NotFnd	0.90	*		1500	999	0.631	
PCB-26	*	*	n	NotFnd	0.97	*		1500	999	0.584	
PCB-25	*	*	n	NotFnd	1.21	*		1500	999	0.467	
PCB-31	*	*	n	NotFnd	0.97	*		1500	999	0.581	
PCB-28	*	*	n	NotFnd	1.08	*		1500	999	0.525	
PCB-20	*	*	n	NotFnd	1.02	*		1500	999	0.554	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.02	*		1500	999	0.554	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.02	*		1500	999	0.554	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.08	*		1500	999	0.524	
PCB-36	*	*	n	NotFnd	0.96	*		1500	999	0.588	
PCB-39	*	*	n	NotFnd	1.00	*		1500	999	0.566	
PCB-38	*	*	n	NotFnd	0.91	*		1500	999	0.618	
PCB-35	*	*	n	NotFnd	1.01	*		1500	999	0.558	
PCB-37	*	*	n	NotFnd	1.08	*		1500	999	0.525	
13C-PCB-37	8.17e+07	1.04	y	30:17	1.03	2060					103

PCB-54	*	*	n	NotFnd	1.04	*	877	1230	0.468	
PCB-50	*	*	n	NotFnd	0.79	*	877	1230	0.616	
PCB-53	*	*	n	NotFnd	0.80	*	877	1230	0.613	
PCB-51	*	*	n	NotFnd	0.84	*	877	1230	0.583	
PCB-45	*	*	n	NotFnd	0.72	*	877	1230	0.681	
PCB-46	*	*	n	NotFnd	0.69	*	877	1230	0.705	
PCB-52	*	*	n	NotFnd	0.99	*	877	1230	0.492	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	0.99	*	877	1230	0.492	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.07	*	877	1230	0.457	
PCB-43	*	*	n	NotFnd	0.79	*	877	1230	0.620	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.79	*	877	1230	0.620	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	1.07	*	877	1230	0.457	
PCB-48	*	*	n	NotFnd	0.94	*	877	1230	0.519	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	0.94	*	877	1230	0.519	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*	877	1230	0.493	
PCB-62	*	*	n	NotFnd	0.99	*	877	1230	0.491	
PCB-44	*	*	n	NotFnd	0.73	*	877	1230	0.664	
PCB-42	*	*	n	NotFnd	0.98	*	877	1230	0.496	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.98	*	877	1230	0.496	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	1.09	*	877	1230	0.449	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	1.09	*	877	1230	0.449	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	1.09	*	877	1230	0.449	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	1.09	*	877	1230	0.449	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.12	*	877	1230	0.433	
PCB-40	*	*	n	NotFnd	0.63	*	877	1230	0.768	
PCB-57	*	*	n	NotFnd	1.08	*	877	1230	0.450	
PCB-67	*	*	n	NotFnd	1.07	*	877	1230	0.454	
PCB-58	*	*	n	NotFnd	1.08	*	877	1230	0.451	
PCB-63	*	*	n	NotFnd	1.08	*	877	1230	0.452	
PCB-74	*	*	n	NotFnd	1.18	*	877	1230	0.412	
PCB-61	*	*	n	NotFnd	1.15	*	877	1230	0.423	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.15	*	877	1230	0.423	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.13	*	877	1230	0.430	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.13	*	877	1230	0.430	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.27	*	877	1230	0.384	
PCB-55	*	*	n	NotFnd	1.13	*	877	1230	0.432	
13C-PCB-54	8.37e+07	0.79	y	25:34	1.09	1990				99.4
PCB-104	*	*	n	NotFnd	1.13	*	564	1110	0.423	
PCB-96	*	*	n	NotFnd	1.06	*	564	1110	0.452	
PCB-103	*	*	n	NotFnd	0.88	*	564	1110	0.541	
PCB-100	*	*	n	NotFnd	0.87	*	564	1110	0.547	
PCB-94	*	*	n	NotFnd	0.74	*	564	1110	0.640	
PCB-98	*	*	n	NotFnd	1.06	*	564	1110	0.451	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	1.06	*	564	1110	0.451	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.63	*	564	1110	0.751	
PCB-93	*	*	n	NotFnd	0.63	*	564	1110	0.760	
PCB-88	*	*	n	NotFnd	0.83	*	564	1110	0.574	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.83	*	564	1110	0.574	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.99	*	564	1110	0.483	
13C-PCB-104	6.65e+07	1.59	y	29:60	0.98	1760				87.9
13C-PCB-28	9.84e+07	1.02	y	26:37	1.01	2520				126
13C-PCB-52	7.72e+07	0.79	y	28:54	-	13.0				

PCB-56	*	*	n	NotFnd	0.89	*	864	1010	0.682	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	0.89	*	864	1010	0.682	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.00	*	864	1010	0.607	
PCB-78	*	*	n	NotFnd	0.97	*	864	1010	0.626	
PCB-81	*	*	n	NotFnd	1.07	*	864	1010	0.575	
13C-PCB-81	6.25e+07	0.81	y	36:04	0.96	1920				95.8
PCB-77	*	*	n	NotFnd	1.01	*	864	1010	0.595	
13C-PCB-77	6.41e+07	0.83	y	36:36	1.02	1850				92.7
PCB-155	*	*	n	NotFnd	1.05	*	864	868	0.475	
PCB-150	*	*	n	NotFnd	0.96	*	864	868	0.521	
PCB-152	*	*	n	NotFnd	0.94	*	864	868	0.531	
PCB-145	*	*	n	NotFnd	0.94	*	864	868	0.534	
PCB-136	*	*	n	NotFnd	0.94	*	864	868	0.529	
PCB-148	*	*	n	NotFnd	0.68	*	864	868	0.738	
PCB-154	*	*	n	NotFnd	0.80	*	864	868	0.625	
13C-PCB-155	6.92e+07	1.25	y	34:08	1.15	1780				88.8
13C-PCB-111	8.52e+07	1.58	y	36:14	1.14	2210				110
13C-PCB-101	6.77e+07	1.58	y	34:35	-	11.9				
PCB-84	*	*	n	NotFnd	0.87	*	1120	1330	0.988	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.87	*	1120	1330	0.988	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.86	*	1120	1330	0.993	
PCB-90	*	*	n	NotFnd	0.98	*	1120	1330	0.875	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.98	*	1120	1330	0.875	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.12	*	1120	1330	0.767	
PCB-99	*	*	n	NotFnd	1.06	*	1120	1330	0.807	
PCB-119	*	*	n	NotFnd	1.26	*	1120	1330	0.682	
PCB-83	*	*	n	NotFnd	1.00	*	1120	1330	0.856	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	1.00	*	1120	1330	0.856	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.13	*	1120	1330	0.761	
PCB-97	*	*	n	NotFnd	1.06	*	1120	1330	0.810	
PCB-86	*	*	n	NotFnd	0.88	*	1120	1330	0.971	
PCB-125	*	*	n	NotFnd	1.13	*	1120	1330	0.755	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	1.13	*	1120	1330	0.755	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	1.13	*	1120	1330	0.755	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.45	*	1120	1330	0.592	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.45	*	1120	1330	0.592	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	1.02	*	1120	1330	0.842	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	1.02	*	1120	1330	0.842	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.34	*	1120	1330	0.641	
PCB-110	*	*	n	NotFnd	1.30	*	1120	1330	0.661	
PCB-82	*	*	n	NotFnd	0.75	*	1020	1030	0.954	
PCB-124	*	*	n	NotFnd	0.99	*	776	1480	0.794	
PCB-108	*	*	n	NotFnd	0.95	*	776	1480	0.829	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	0.95	*	776	1480	0.829	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.08	*	776	1480	0.731	
13C-PCB-123	5.80e+07	1.57	y	38:15	0.97	2120				106
PCB-118	*	*	n	NotFnd	0.91	*	776	1480	0.820	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	0.91	*	776	1480	0.820	Co-elute PCB 118
13C-PCB-118	6.09e+07	1.58	y	38:25	1.06	2050				102
PCB-114	*	*	n	NotFnd	0.97	*	776	1480	0.862	
13C-PCB-114	5.75e+07	1.56	y	39:03	1.04	1970				98.6
PCB-122	*	*	n	NotFnd	0.95	*	776	1480	0.833	
PCB-105	*	*	n	NotFnd	0.94	*	776	1480	0.832	
13C-PCB-105	5.78e+07	1.57	y	39:51	1.03	1990				99.4

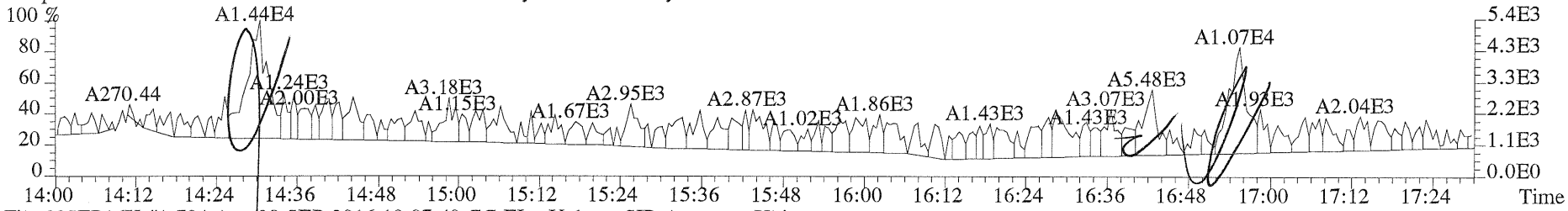
PCB-127	*	*	n	NotFnd	0.86	*		776	1480	0.920	
PCB-126	*	*	n	NotFnd	0.98	*		776	1480	0.879	
13C-PCB-126	4.99e+07	1.48	y	41:58	0.91	1940					97.0
PCB-151	*	*	n	NotFnd	0.82	*		792	648	0.595	
PCB-135	*	*	n	NotFnd	0.88	*		792	648	0.554	
PCB-144	*	*	n	NotFnd	0.82	*		792	648	0.595	
PCB-147	*	*	n	NotFnd	0.86	*		792	648	0.565	
PCB-139	*	*	n	NotFnd	0.90	*		792	648	0.538	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.90	*		792	648	0.538	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.83	*		792	648	0.583	
PCB-143	*	*	n	NotFnd	0.82	*		792	648	0.592	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.82	*		792	648	0.592	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.83	*		792	648	0.587	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.83	*		792	648	0.587	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.71	*		792	648	0.689	
PCB-165	*	*	n	NotFnd	0.97	*		792	648	0.501	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	0.97	*		792	648	0.501	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	0.92	*		792	648	0.528	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	0.92	*		792	648	0.528	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	0.95	*		792	648	0.514	
PCB-168	*	*	n	NotFnd	1.05	*		792	648	0.461	
PCB-141	*	*	n	NotFnd	0.81	*		792	648	0.597	
PCB-137	*	*	n	NotFnd	0.76	*		792	648	0.643	
PCB-130	*	*	n	NotFnd	0.74	*		792	648	0.653	
PCB-138	*	*	n	NotFnd	1.10	*		792	648	0.442	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.10	*		792	648	0.442	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.10	*		792	648	0.442	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.06	*		792	648	0.459	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.06	*		792	648	0.459	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.66	*		792	648	0.733	
PCB-166	*	*	n	NotFnd	0.99	*		792	648	0.491	
PCB-159	*	*	n	NotFnd	1.05	*		792	648	0.462	
PCB-128	*	*	n	NotFnd	0.90	*		792	648	0.539	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.90	*		792	648	0.539	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	0.94	*		792	648	0.501	
13C-PCB-167	6.21e+07	1.25	y	43:20	1.12	1960					98.2
PCB-156	*	*	n	NotFnd	0.99	*		792	648	0.482	
13C-PCB-156	5.97e+07	1.27	y	44:34	1.07	1990					99.3
PCB-157	*	*	n	NotFnd	0.94	*		792	648	0.509	
13C-PCB-157	6.07e+07	1.25	y	44:49	1.10	1970					98.4
PCB-169	*	*	n	NotFnd	0.95	*		792	648	0.543	
13C-PCB-169	5.52e+07	1.25	y	46:42	0.98	2000					99.9

FAL ID: 03857-001-0001-MB Filename: 28SEP16Y Sam:5 Acquired: 28-SEP-16 19:07:40 ICal: DAILY209FAL4-9-28-16Y
Client ID: Method Blank ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.000

PCB-188	*	*	n	NotFnd	1.11	*	752	588	0.420	
13C-PCB-188	6.20e+07	1.06	y	39:38	1.23	1790				89.3
PCB-184	*	*	n	NotFnd	1.25	*	752	588	0.355	
PCB-179	*	*	n	NotFnd	1.23	*	752	588	0.362	
PCB-176	*	*	n	NotFnd	1.19	*	752	588	0.372	
PCB-186	*	*	n	NotFnd	1.18	*	752	588	0.376	
PCB-178	*	*	n	NotFnd	0.85	*	752	588	0.519	
PCB-175	*	*	n	NotFnd	0.89	*	752	588	0.497	
PCB-187	*	*	n	NotFnd	0.95	*	752	588	0.468	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.95	*	752	588	0.468	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.95	*	1420	1080	0.870	
PCB-185	*	*	n	NotFnd	0.86	*	752	588	0.517	
PCB-174	*	*	n	NotFnd	0.89	*	752	588	0.497	
PCB-181	*	*	n	NotFnd	0.82	*	752	588	0.541	
PCB-177	*	*	n	NotFnd	0.74	*	752	588	0.598	
PCB-171	*	*	n	NotFnd	0.82	*	752	588	0.538	
PCB-173	*	*	n	NotFnd	0.73	*	752	588	0.609	
PCB-172	*	*	n	NotFnd	0.75	*	752	588	0.593	
PCB-192	*	*	n	NotFnd	0.96	*	752	588	0.459	
PCB-180	*	*	n	NotFnd	0.98	*	752	588	0.451	
PCB-193	*	*	n	NotFnd	1.05	*	752	588	0.422	
PCB-191	*	*	n	NotFnd	0.97	*	752	588	0.455	
PCB-170	*	*	n	NotFnd	0.64	*	752	588	0.688	
PCB-190	*	*	n	NotFnd	0.88	*	752	588	0.501	
PCB-189	*	*	n	NotFnd	1.10	*	752	588	0.376	
13C-PCB-189	4.70e+07	1.07	y	48:23	0.90	1850				92.7
PCB-202	*	*	n	NotFnd	0.95	*	508	660	0.512	
PCB-201	*	*	n	NotFnd	0.92	*	508	660	0.525	
PCB-204	*	*	n	NotFnd	0.92	*	508	660	0.527	
PCB-197	*	*	n	NotFnd	0.93	*	508	660	0.524	
PCB-200	*	*	n	NotFnd	0.88	*	508	660	0.550	
PCB-198	*	*	n	NotFnd	0.60	*	508	660	0.808	
PCB-199	*	*	n	NotFnd	0.55	*	508	660	0.875	
PCB-203	*	*	n	NotFnd	0.64	*	508	660	0.753	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.64	*	508	660	0.753	Co-elute PCB 203
13C-PCB-202	5.04e+07	0.91	y	44:45	1.00	1790				89.3
13C-PCB-178	5.19e+07	1.07	y	42:16	0.84	2200				110
13C-PCB-138	5.63e+07	1.24	y	41:30	-	11.5				
PCB-195	*	*	n	NotFnd	0.75	*	564	476	0.496	
PCB-194	*	*	n	NotFnd	0.76	*	564	476	0.488	
PCB-205	*	*	n	NotFnd	1.00	*	1360	1420	0.989	
13C-PCB-205	3.65e+07	0.91	y	50:02	1.27	1910				95.4
PCB-208	*	*	n	NotFnd	0.93	*	428	532	0.419	
13C-PCB-208	3.90e+07	0.79	y	49:07	1.49	1730				86.6
PCB-207	*	*	n	NotFnd	1.00	*	428	532	0.439	
PCB-206	*	*	n	NotFnd	0.99	*	428	532	0.506	
13C-PCB-206	2.87e+07	0.79	y	51:14	1.02	1870				93.4
PCB-209	*	*	n	NotFnd	1.06	*	952	912	0.633	
13C-PCB-209	4.16e+07	1.19	y	52:25	1.58	1750				87.5
13C-PCB-194	3.01e+07	0.91	y	49:47	-	11.5				

Analyst: _____ Date: 10/7/16

File:28SEP16Y #1-784 Acq:28-SEP-2016 19:07:40 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:03857-001-0001-MB File Text:Frontier Analytical Laboratory



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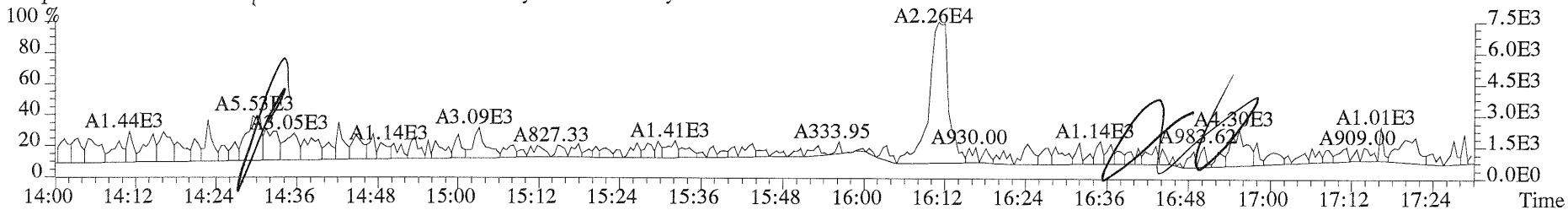

File:28SEP16Y #1-784 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
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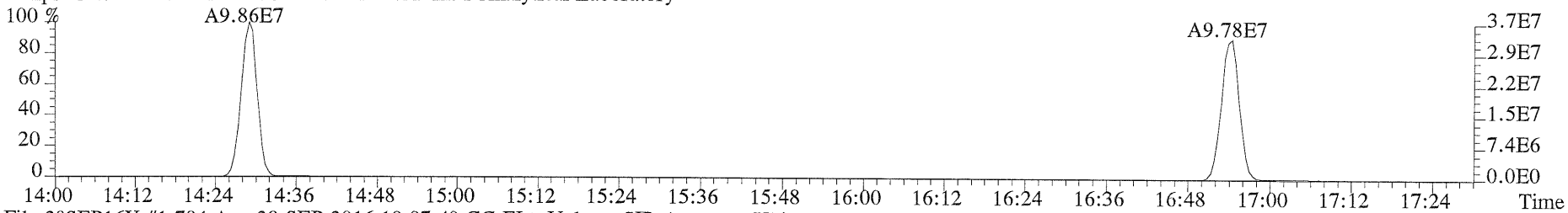
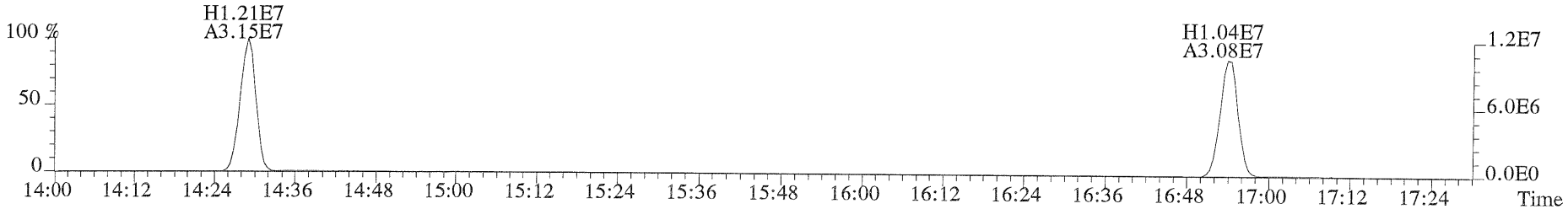


File:28SEP16Y #1-784 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-509 Acq:28-SEP-2016 19:07:40 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
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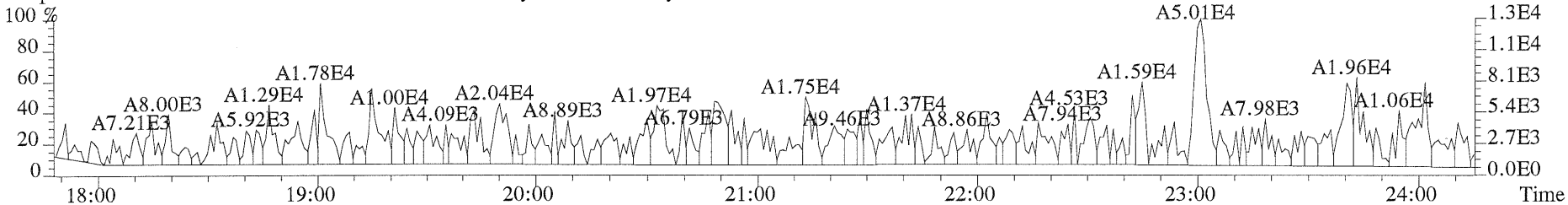

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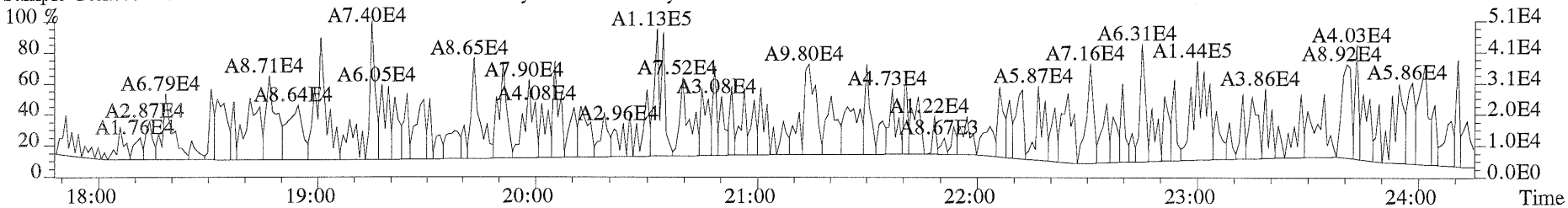
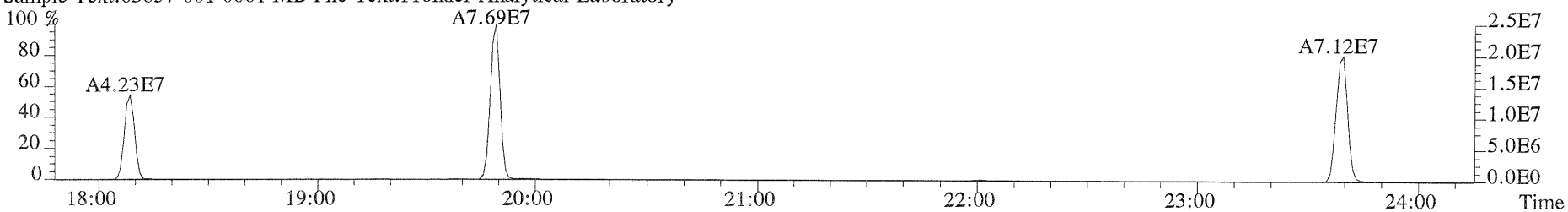
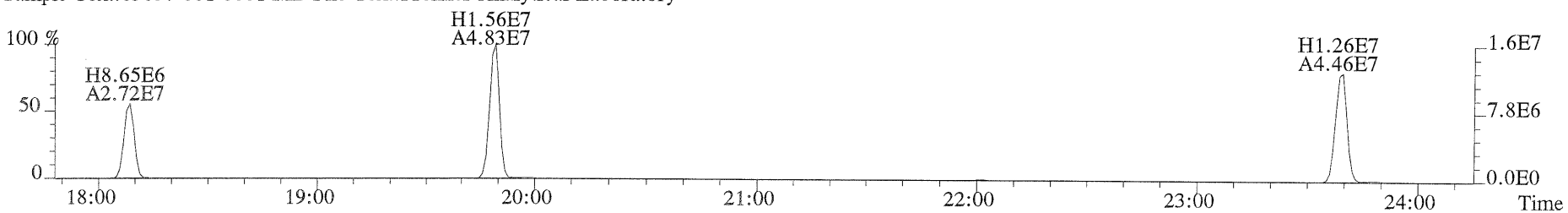
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



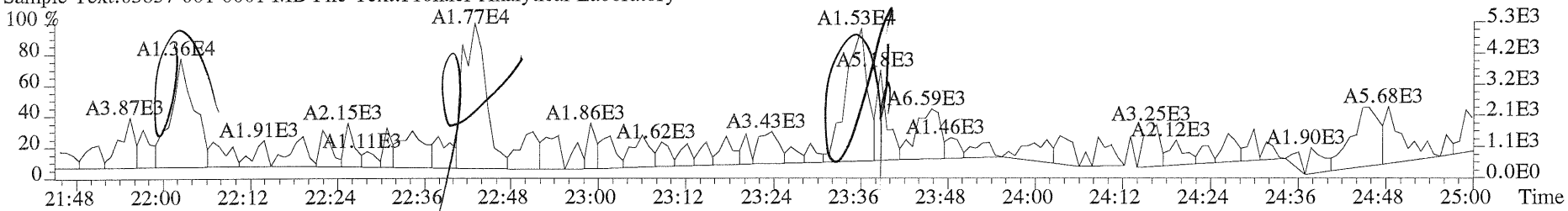
File:28SEP16Y #1-509 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



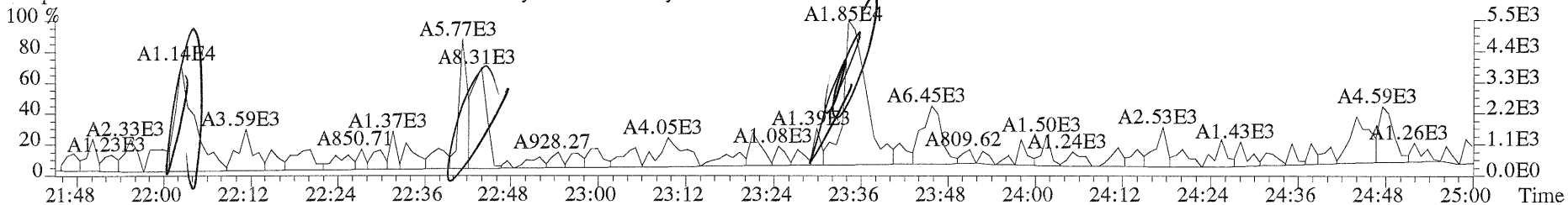
File:28SEP16Y #1-509 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



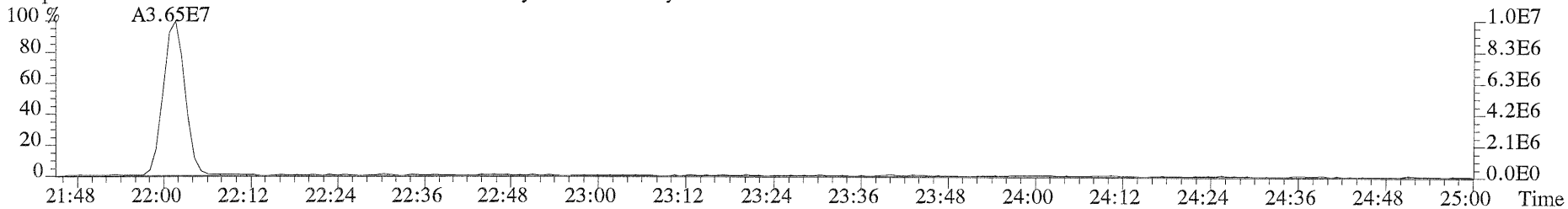
File:28SEP16Y #1-509 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



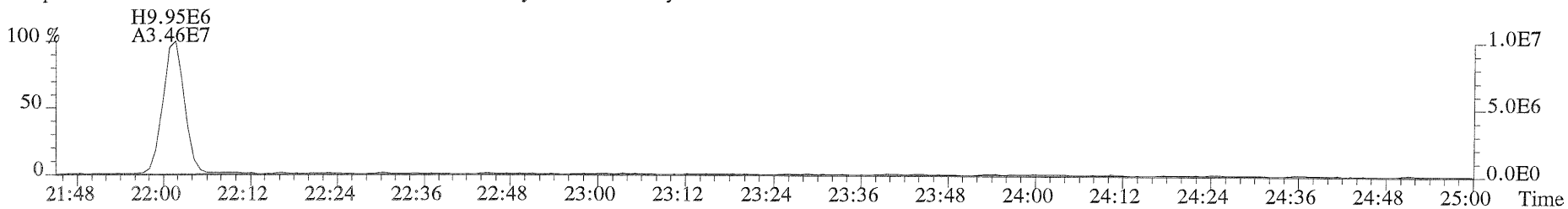
File:28SEP16Y #1-509 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



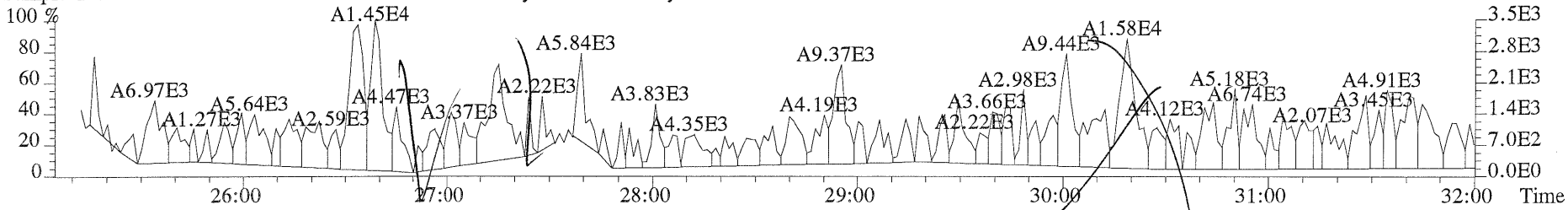
File:28SEP16Y #1-509 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



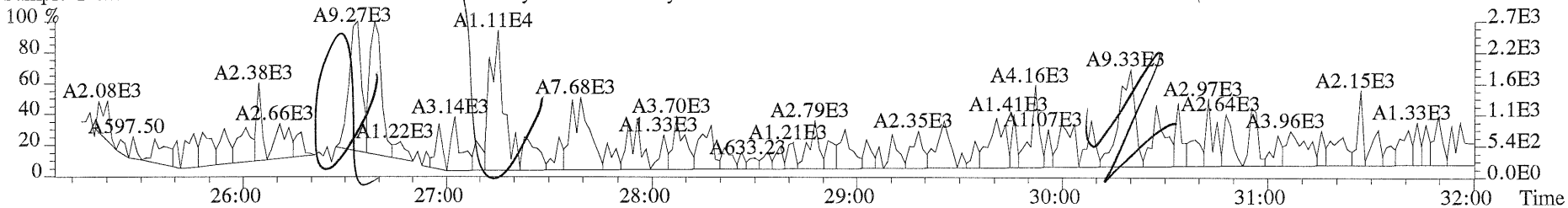
File:28SEP16Y #1-509 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



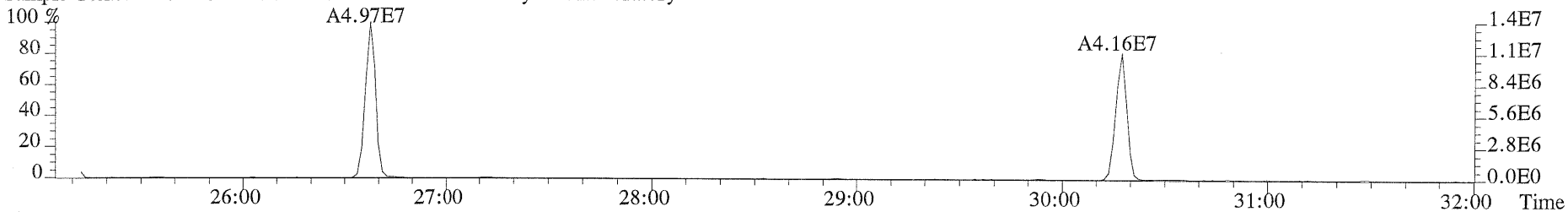
File:28SEP16Y #1-403 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



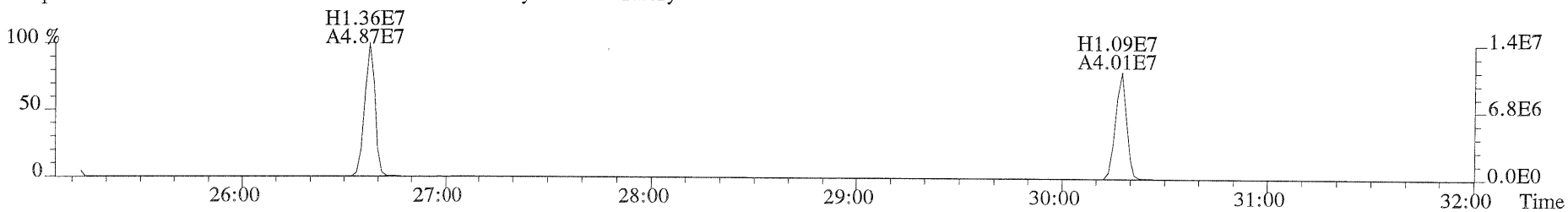
File:28SEP16Y #1-403 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



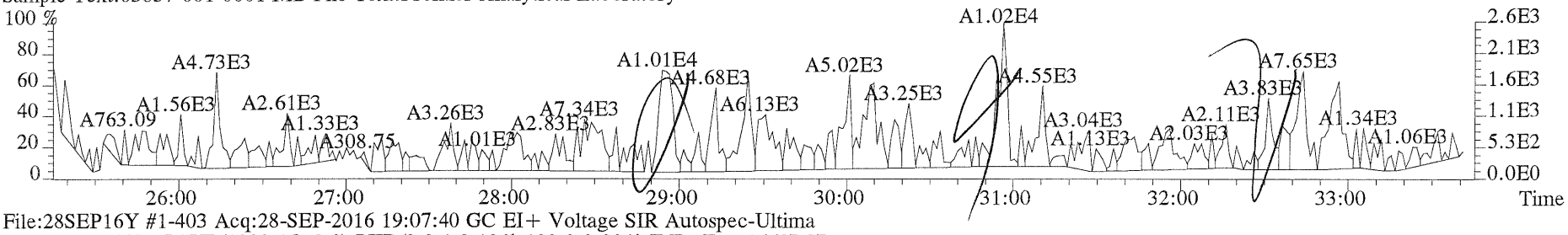
File:28SEP16Y #1-403 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



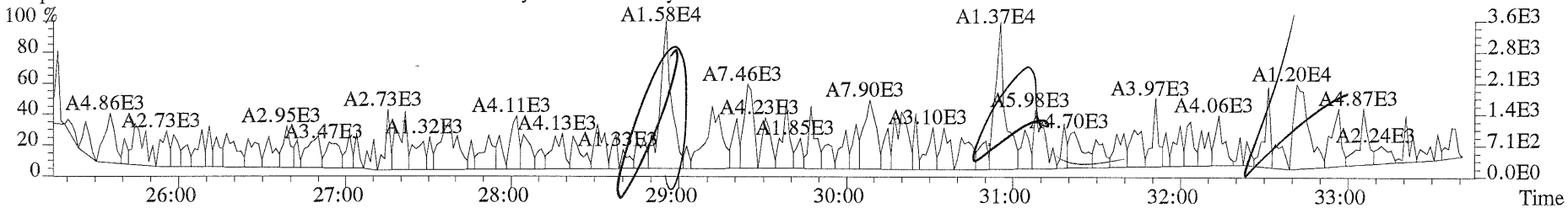
File:28SEP16Y #1-403 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



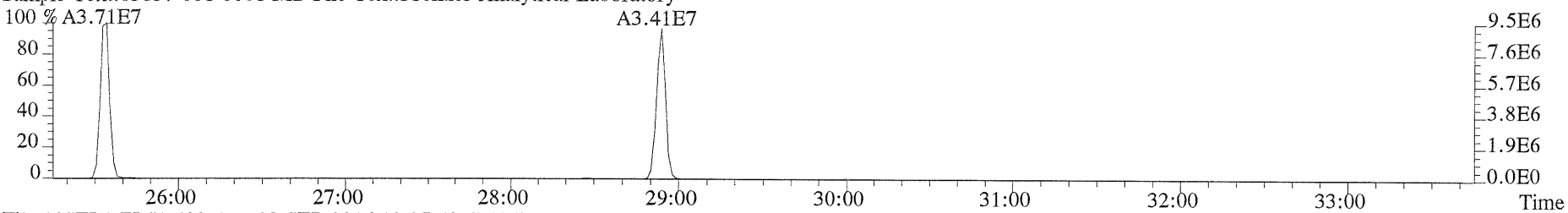
File:28SEP16Y #1-403 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



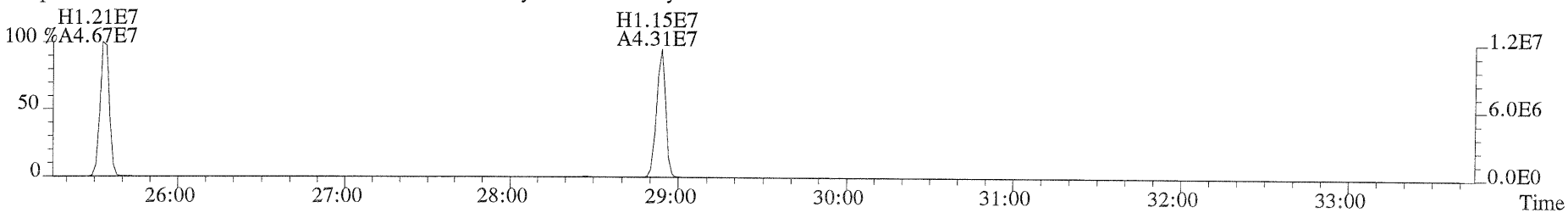
File:28SEP16Y #1-403 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



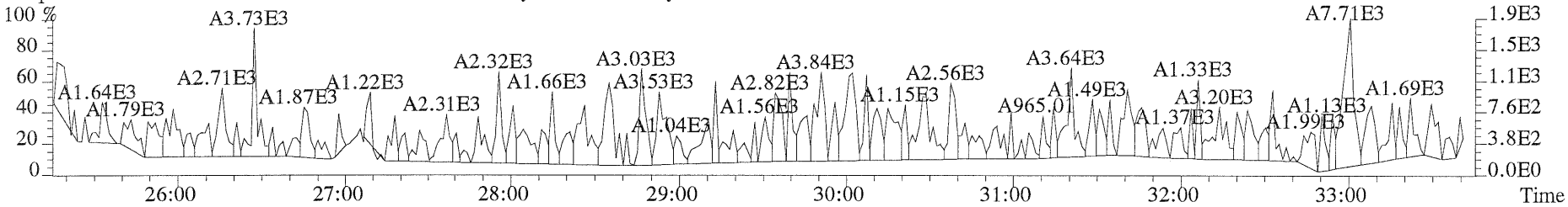
File:28SEP16Y #1-403 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



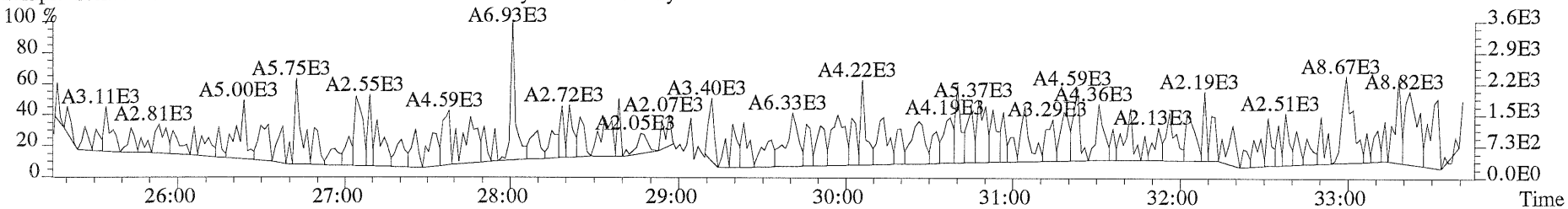
File:28SEP16Y #1-403 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



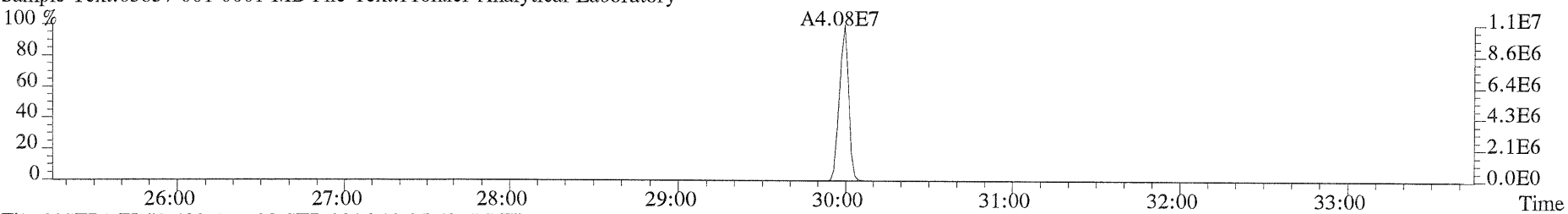
File:28SEP16Y #1-403 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



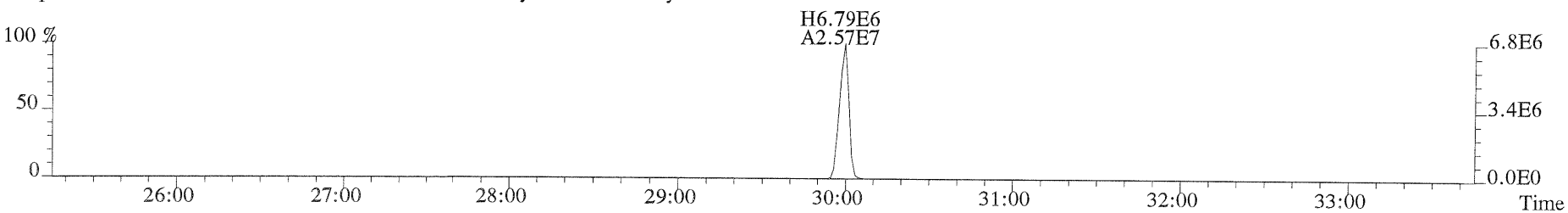
File:28SEP16Y #1-403 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



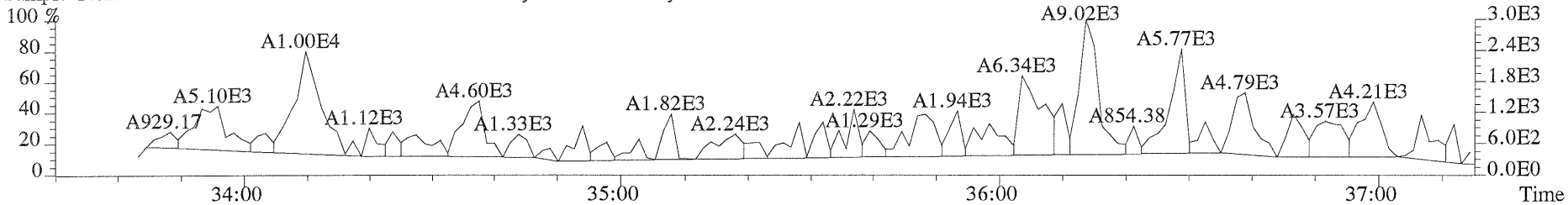
File:28SEP16Y #1-403 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



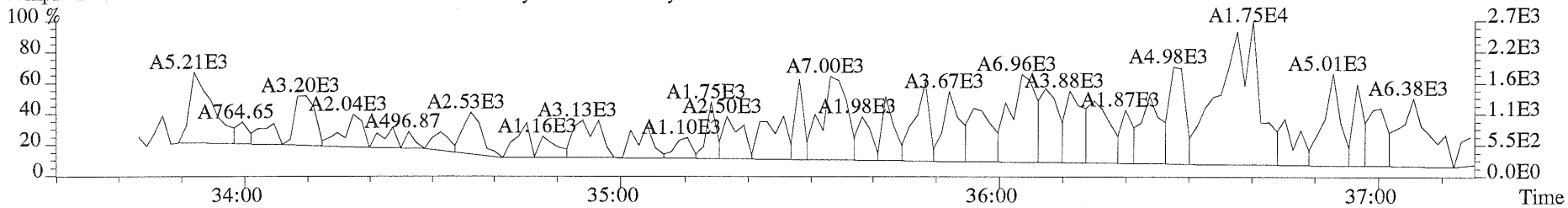
File:28SEP16Y #1-403 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



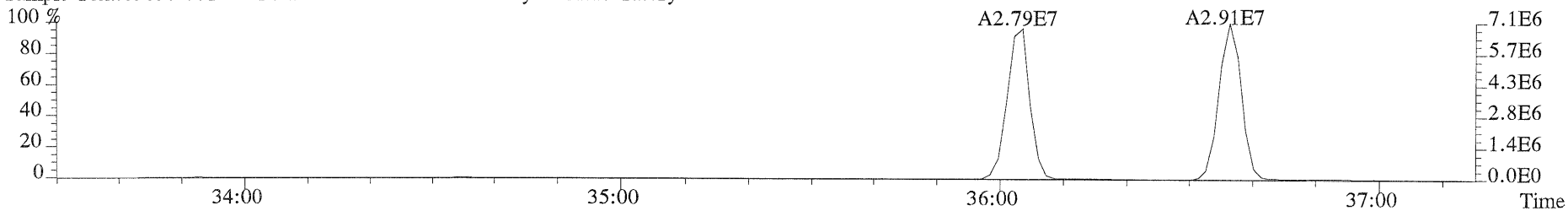
File:28SEP16Y #1-179 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



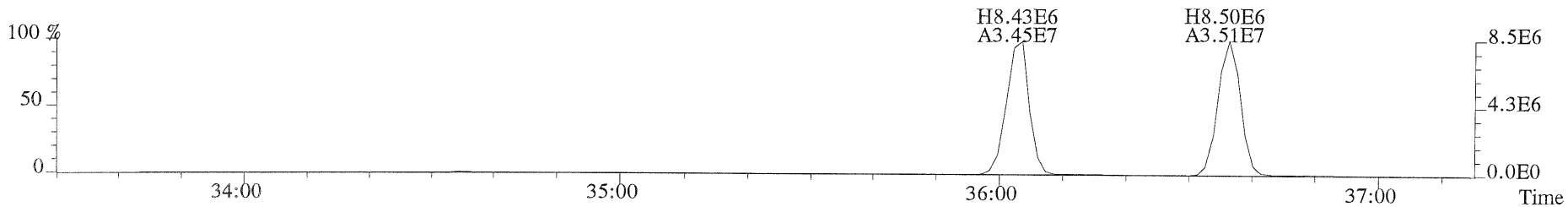
File:28SEP16Y #1-179 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



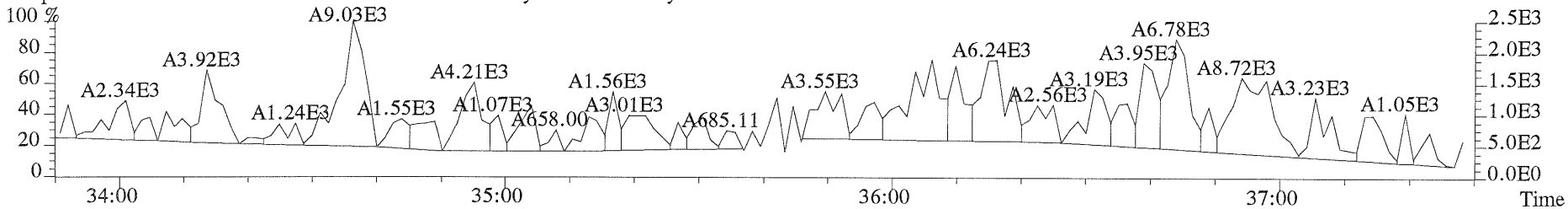
File:28SEP16Y #1-179 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



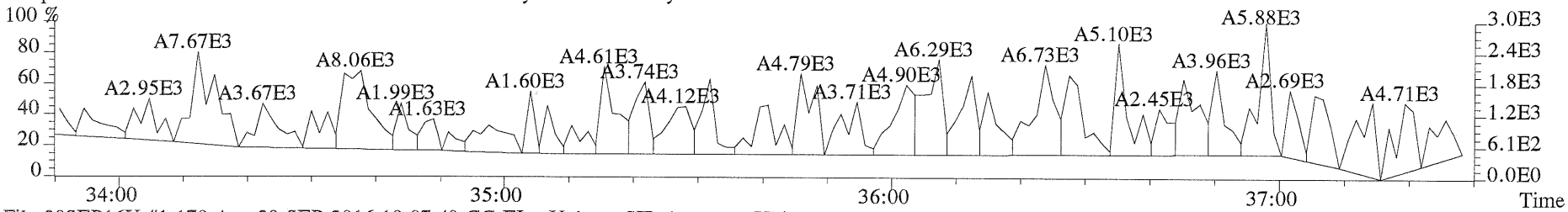
File:28SEP16Y #1-179 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



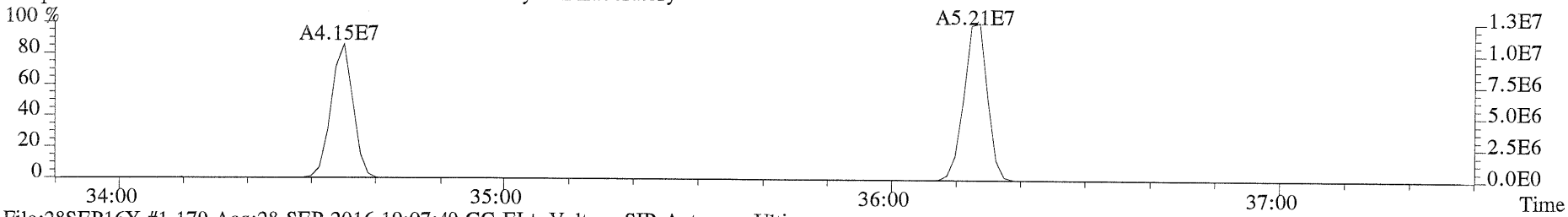
File:28SEP16Y #1-179 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



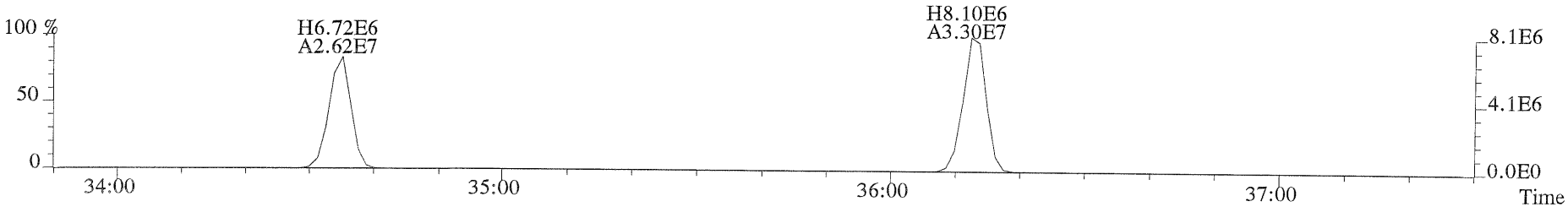
File:28SEP16Y #1-179 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



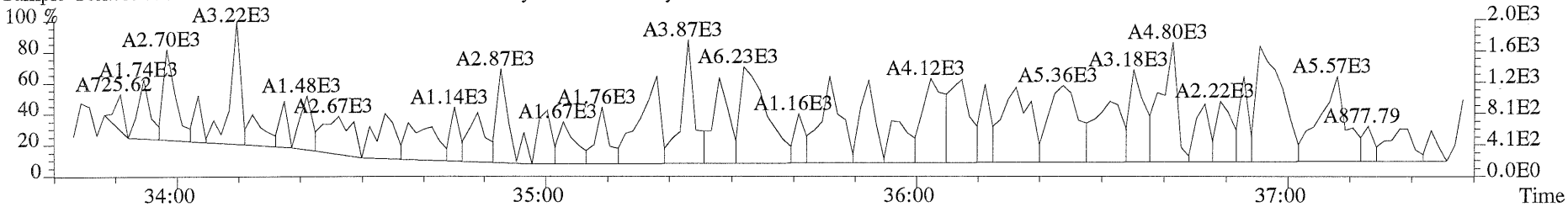
File:28SEP16Y #1-179 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



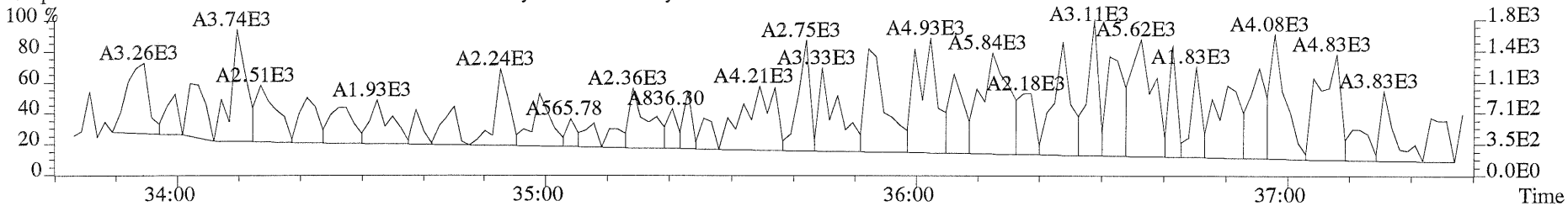
File:28SEP16Y #1-179 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



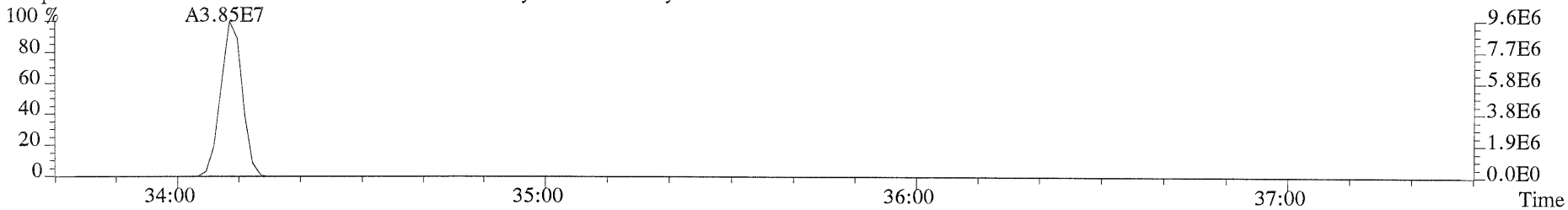
File:28SEP16Y #1-179 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



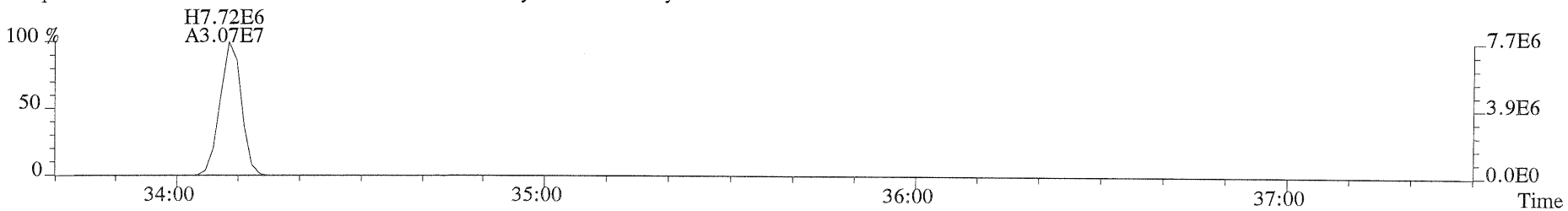
File:28SEP16Y #1-179 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



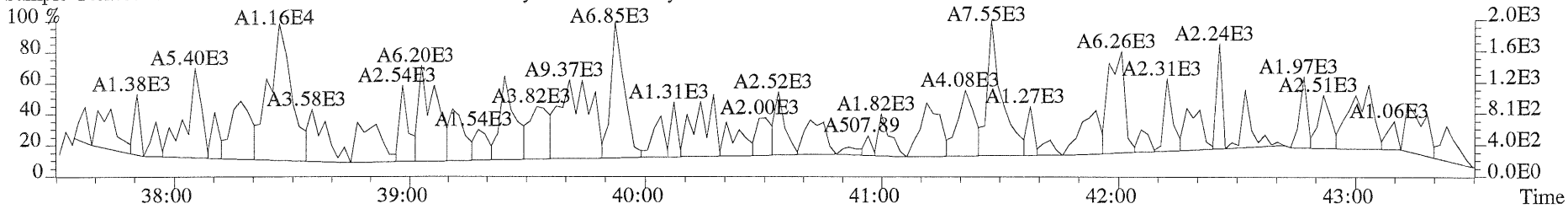
File:28SEP16Y #1-179 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



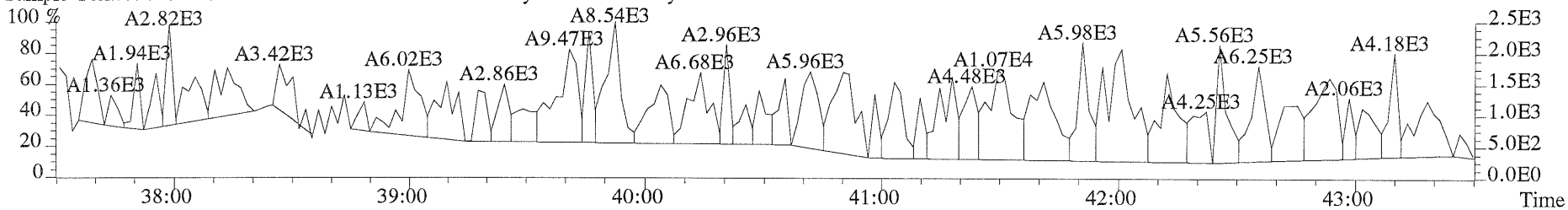
File:28SEP16Y #1-179 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



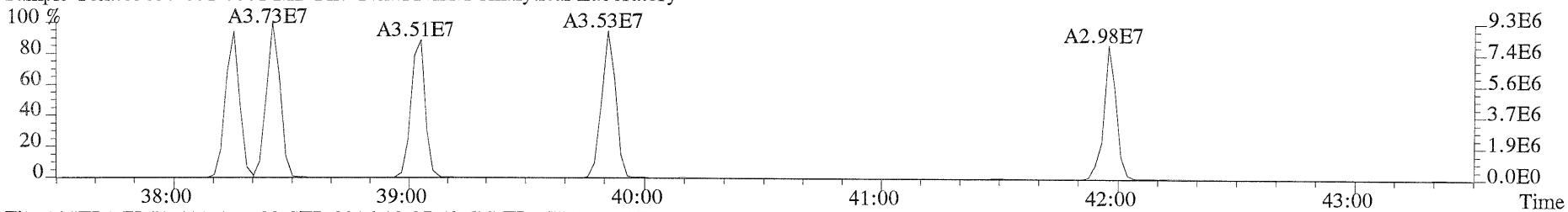
File:28SEP16Y #1-411 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:28-SEP-2016 19:07:40 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:03857-001-0001-MB File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:28-SEP-2016 19:07:40 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:03857-001-0001-MB File Text:Frontier Analytical Laboratory



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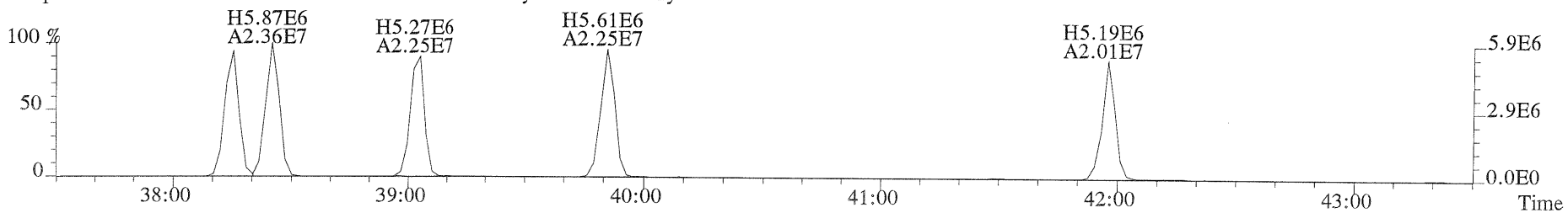
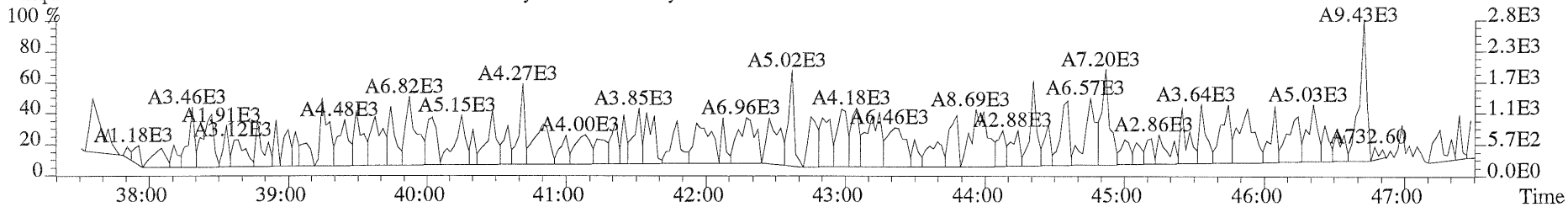
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:28-SEP-2016 19:07:40 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:03857-001-0001-MB File Text:Frontier Analytical Laboratory



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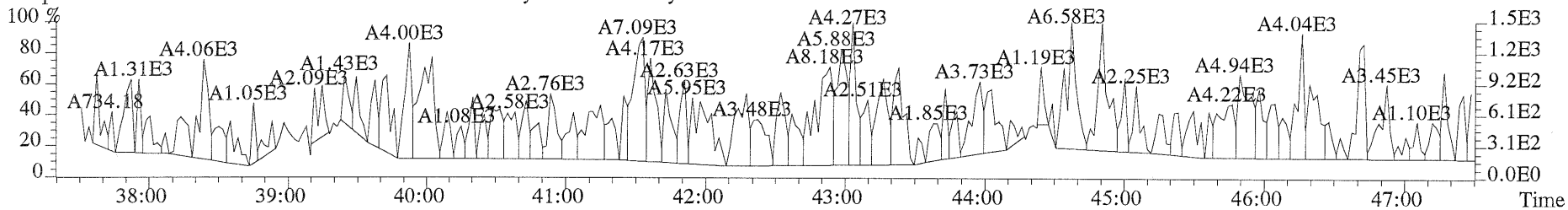
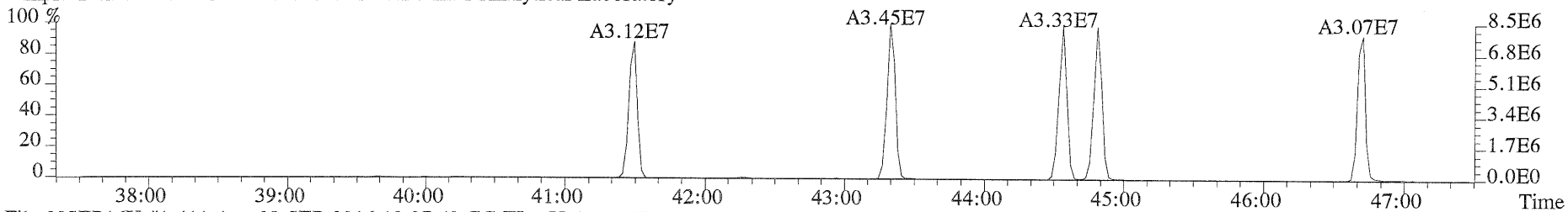
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:28-SEP-2016 19:07:40 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:03857-001-0001-MB 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
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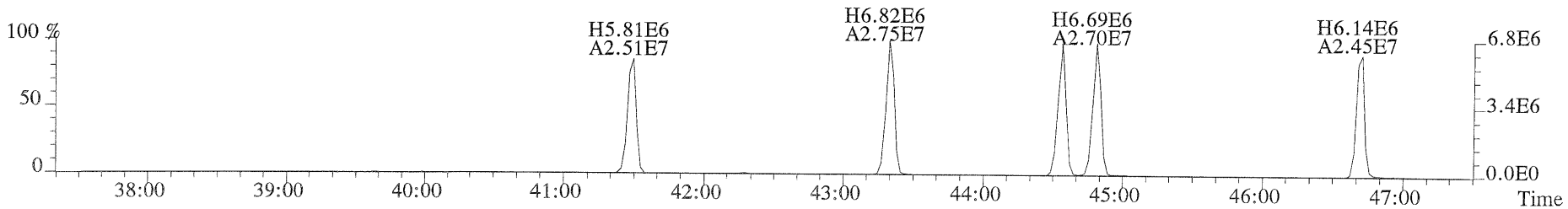

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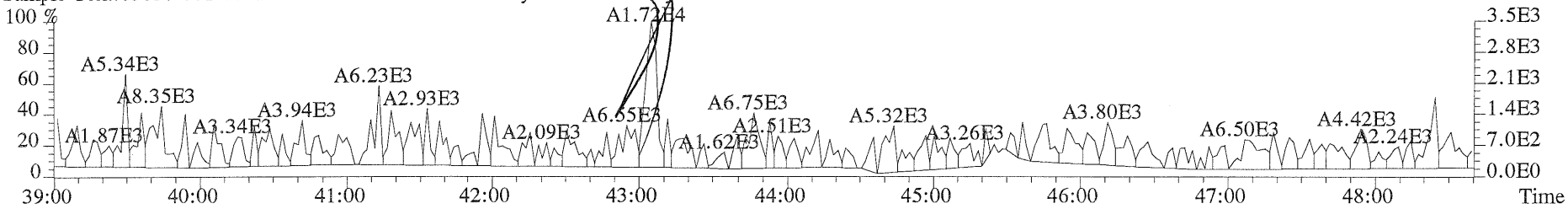
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



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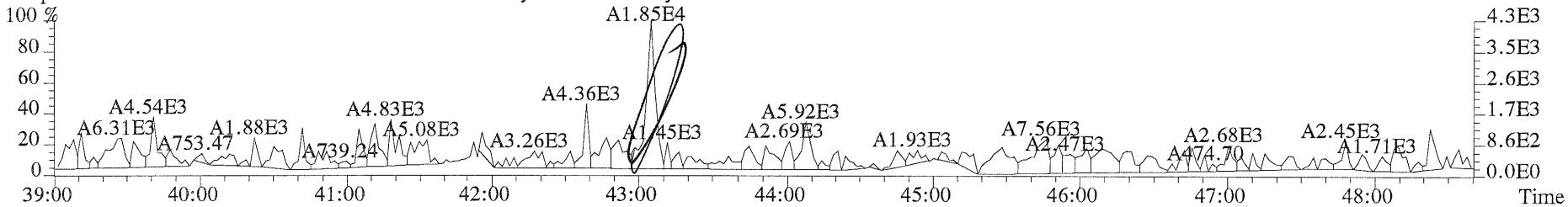
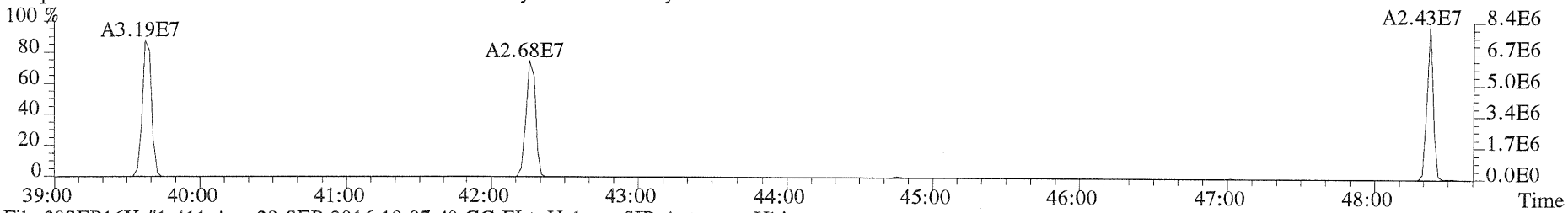
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:28-SEP-2016 19:07:40 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:03857-001-0001-MB File Text:Frontier Analytical Laboratory



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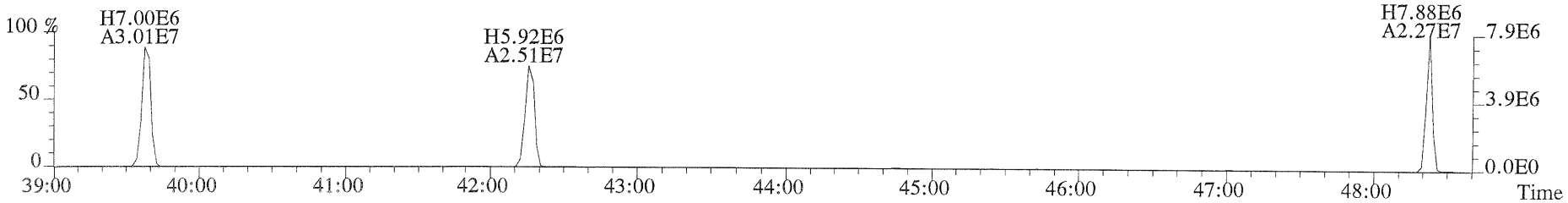
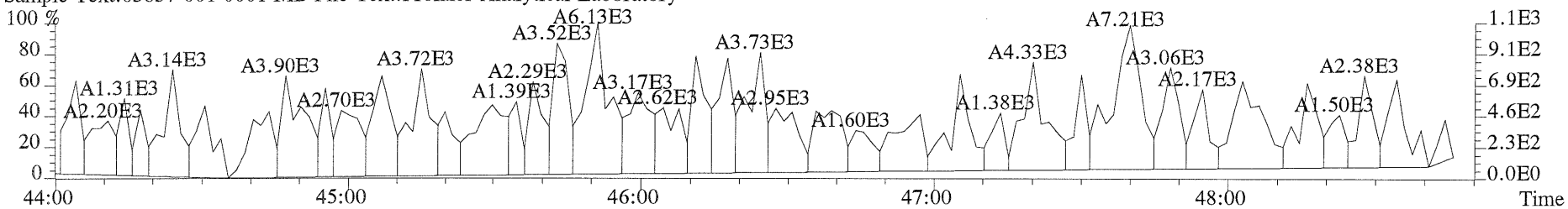
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:28-SEP-2016 19:07:40 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:03857-001-0001-MB File Text:Frontier Analytical Laboratory



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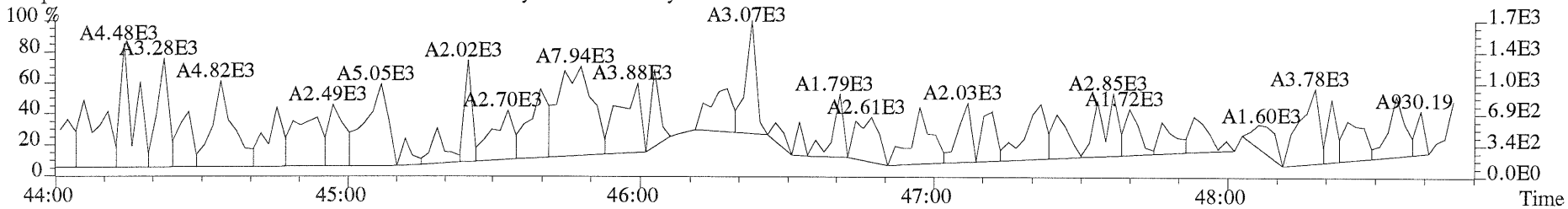
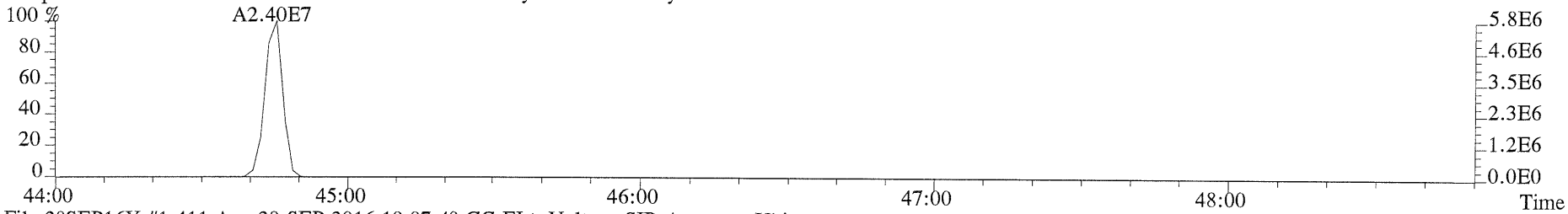
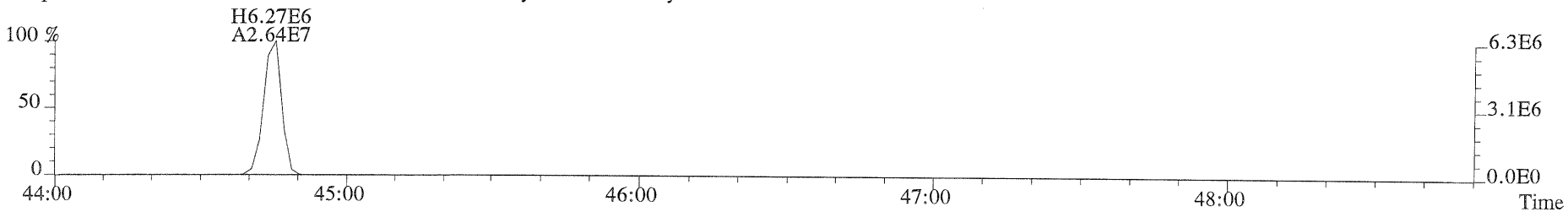
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



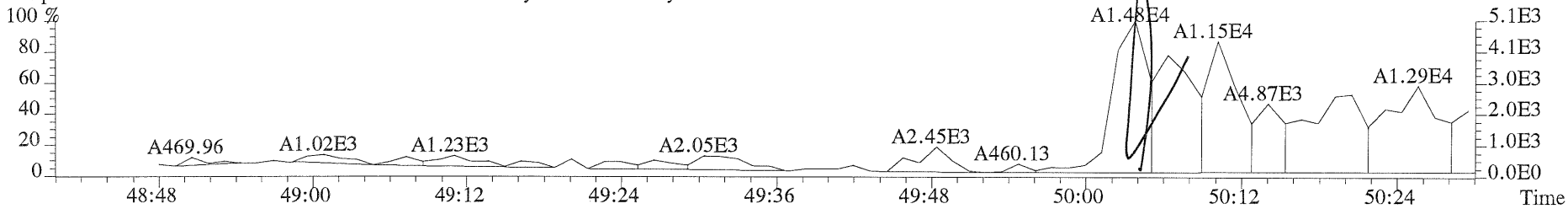
File:28SEP16Y #1-411 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



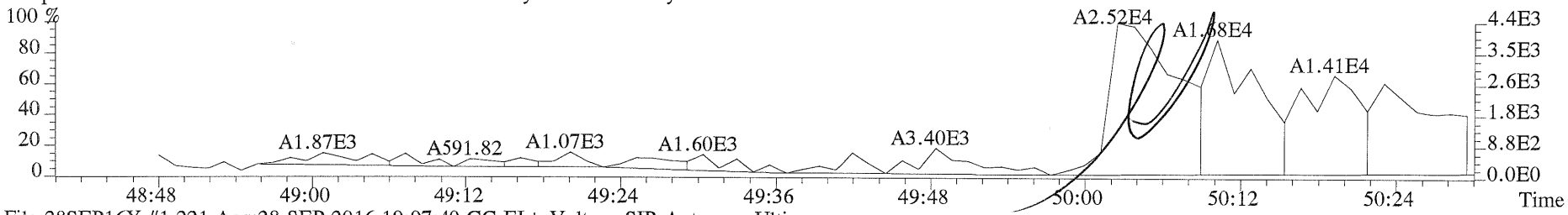
File:28SEP16Y #1-411 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 19:07:40 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:03857-001-0001-MB File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 19:07:40 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:03857-001-0001-MB File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 19:07:40 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
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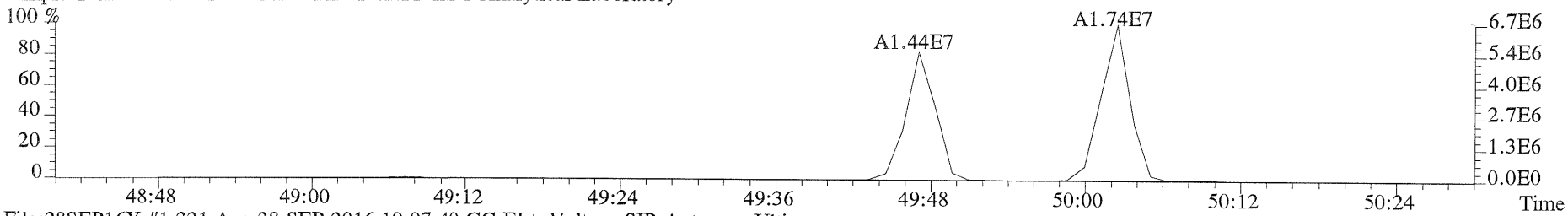
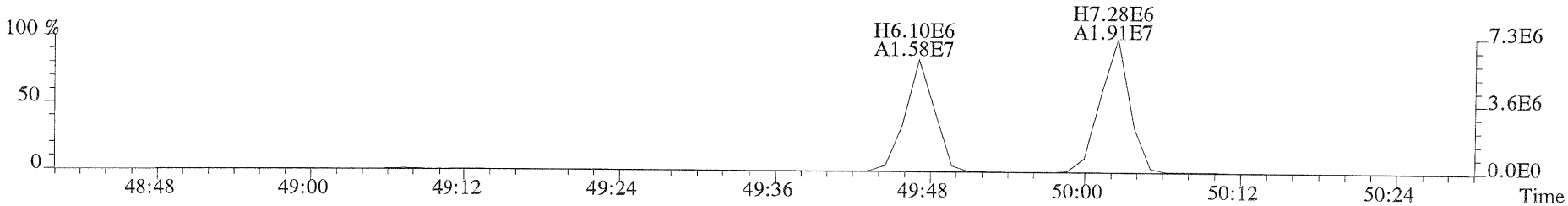


File:28SEP16Y #1-221 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 19:07:40 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
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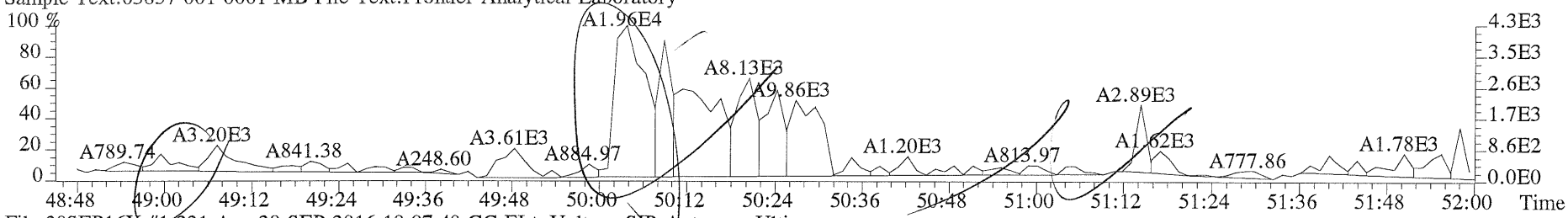

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465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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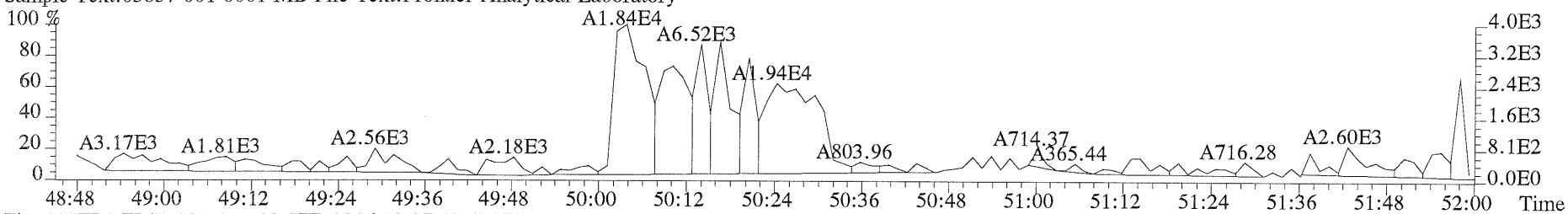
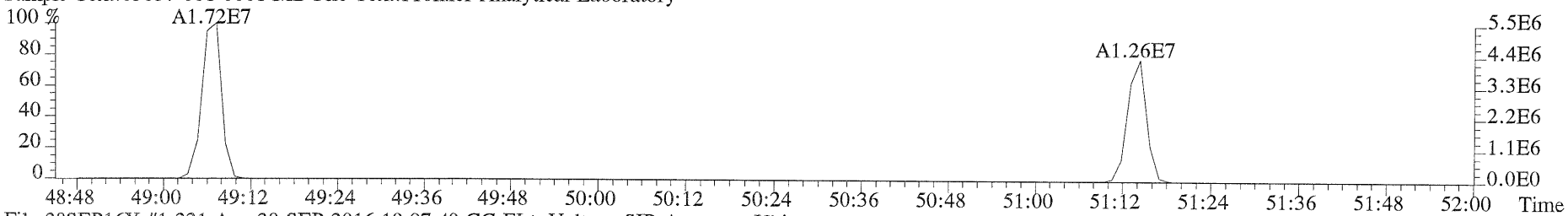
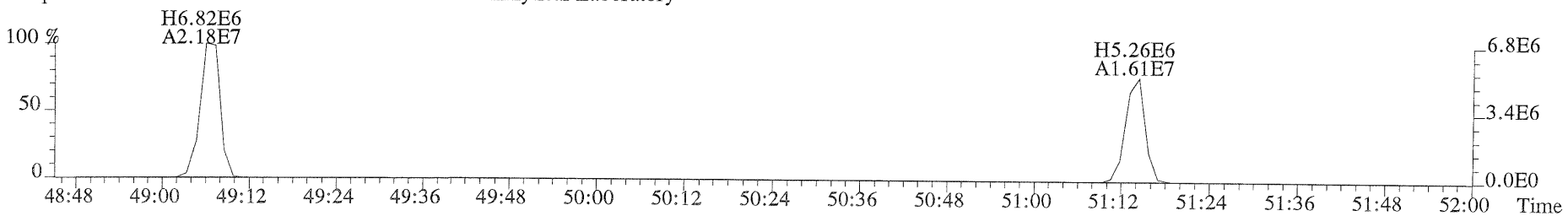


File:28SEP16Y #1-221 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 19:07:40 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:03857-001-0001-MB File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 19:07:40 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
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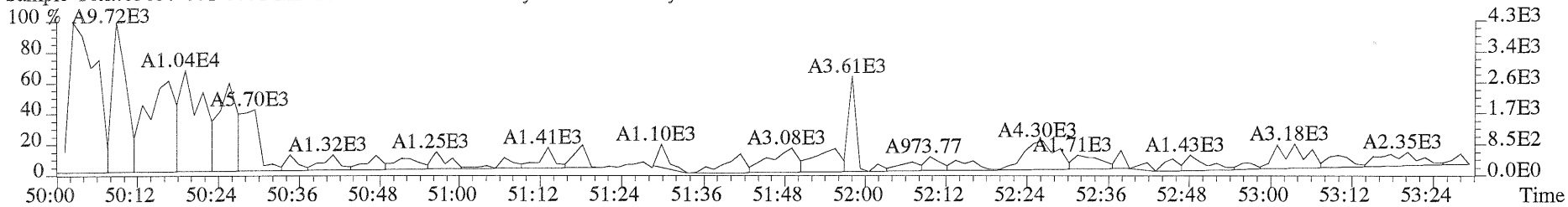

File:28SEP16Y #1-221 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
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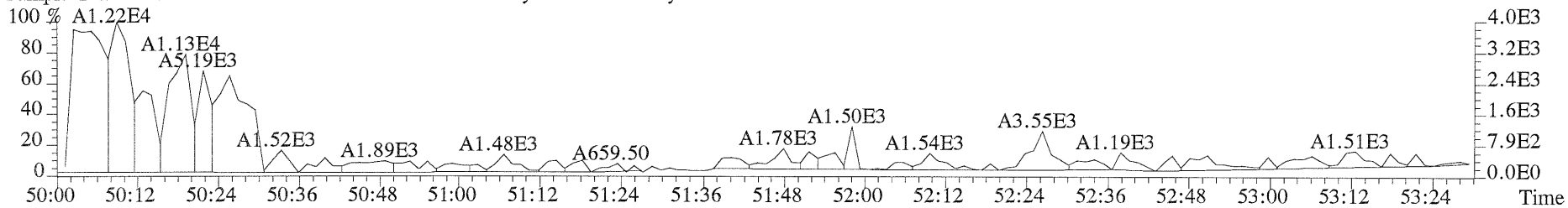
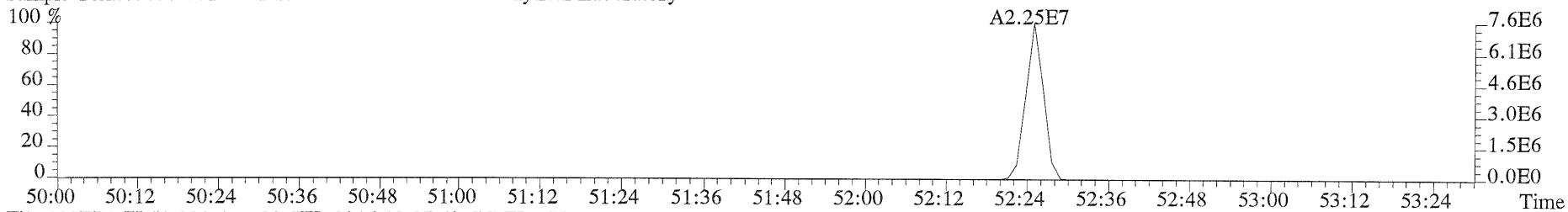
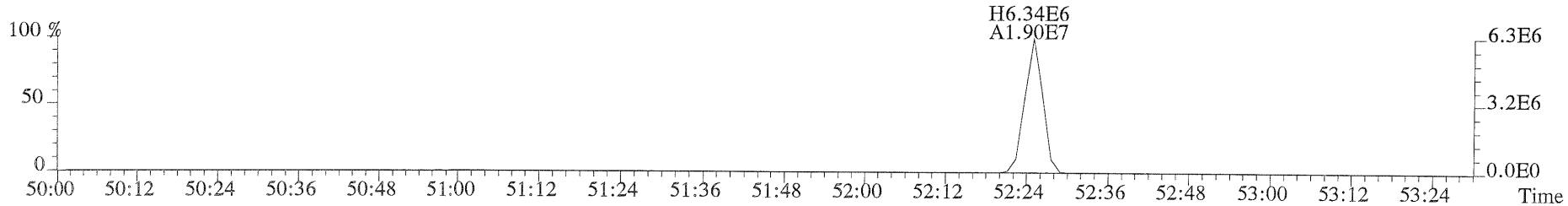


File:28SEP16Y #1-221 Acq:28-SEP-2016 19:07:40 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-MB File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 19:07:40 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:03857-001-0001-MB File Text:Frontier Analytical Laboratory



03857.001.0001.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): Sediment OPR Data Filename: 28SEP16Y Sam:4

Ext. Date: 9/26/16 Shift: Day Analysis Date: 28-SEP-16 18:11:10

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	50.6	30.0 - 67.5
PCB-3	50	52.7	30.0 - 67.5
PCB-4	50	55.4	30.0 - 67.5
PCB-15	50	47.7	30.0 - 67.5
PCB-19	50	51.1	30.0 - 67.5
PCB-37	50	49.5	30.0 - 67.5
PCB-54	50	50.4	30.0 - 67.5
PCB-77	50	48.6	30.0 - 67.5
PCB-81	50	48.5	30.0 - 67.5
PCB-104	50	50.0	30.0 - 67.5
PCB-105	50	51.7	30.0 - 67.5
PCB-114	50	49.2	30.0 - 67.5
PCB-118	50	53.9	30.0 - 67.5
PCB-123	50	44.9	30.0 - 67.5
PCB-126	50	48.4	30.0 - 67.5
PCB-155	50	48.6	30.0 - 67.5
PCB-156	50	49.1	30.0 - 67.5
PCB-157	50	49.3	30.0 - 67.5
PCB-167	50	51.1	30.0 - 67.5
PCB-169	50	49.1	30.0 - 67.5
PCB-188	50	49.3	30.0 - 67.5
PCB-189	50	48.9	30.0 - 67.5
PCB-202	50	50.4	30.0 - 67.5
PCB-205	50	50.9	30.0 - 67.5
PCB-206	50	49.6	30.0 - 67.5
PCB-208	50	50.3	30.0 - 67.5
PCB-209	50	49.0	30.0 - 67.5

Analyst: _____ Date: 10/5/16

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): Sediment OPR Data Filename: 28SEP16Y Sam:4

Ext. Date: 9/26/16 Shift: Day Analysis Date: 28-SEP-16 18:11:10

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	84.4	15.0 - 145
13C-PCB-3	100	87.8	15.0 - 145
13C-PCB-4	100	92.3	15.0 - 145
13C-PCB-15	100	98.3	15.0 - 145
13C-PCB-19	100	91.9	15.0 - 145
13C-PCB-37	100	101	15.0 - 145
13C-PCB-54	100	102	15.0 - 145
13C-PCB-77	100	103	40.0 - 145
13C-PCB-81	100	108	40.0 - 145
13C-PCB-104	100	95.7	40.0 - 145
13C-PCB-105	100	107	40.0 - 145
13C-PCB-114	100	103	40.0 - 145
13C-PCB-118	100	106	40.0 - 145
13C-PCB-123	100	112	40.0 - 145
13C-PCB-126	100	114	40.0 - 145
13C-PCB-155	100	98.1	40.0 - 145
13C-PCB-156	100	107	40.0 - 145
13C-PCB-157	100	107	40.0 - 145
13C-PCB-167	100	106	40.0 - 145
13C-PCB-169	100	104	40.0 - 145
13C-PCB-188	100	98.1	40.0 - 145
13C-PCB-189	100	96.9	40.0 - 145
13C-PCB-202	100	101	40.0 - 145
13C-PCB-205	100	102	40.0 - 145
13C-PCB-206	100	99.1	40.0 - 145
13C-PCB-208	100	94.3	40.0 - 145
13C-PCB-209	100	96.2	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	109	15.0 - 145
13C-PCB-111	100	104	40.0 - 145
13C-PCB-178	100	109	40.0 - 145

Analyst: [signature] Date: 10/7/16

FAL ID: 03857-001-0001-OPR Filename: 28SEP16Y Sam:4 Acquired: 28-SEP-16 18:11:10 ICal: DAILY209FAL4-9-28-16Y 1 of 2
Client ID: OPR ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 1.000

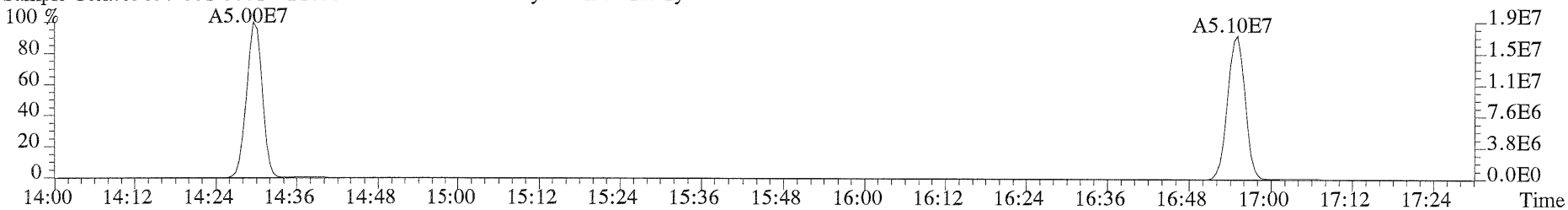
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.62e+07	3.10 y	14:30	1.00	50.6		2.50	-	-	*	
13C-PCB-1	1.31e+08	3.12 y	14:28	1.29	84.4		2.50				84.4
PCB-3	6.74e+07	3.11 y	16:55	0.96	52.7		2.50	-	-	*	
13C-PCB-3	1.33e+08	3.15 y	16:53	1.26	87.8		2.50				87.8
PCB-4	3.75e+07	1.50 y	18:10	0.95	55.4		2.50	-	-	*	
13C-PCB-4	7.12e+07	1.57 y	18:08	0.64	92.3		2.50				92.3
PCB-15	6.07e+07	1.52 y	23:40	1.08	47.7		2.50	-	-	*	
13C-PCB-15	1.18e+08	1.58 y	23:39	1.00	98.3		2.50				98.3
PCB-19	3.88e+07	1.05 y	22:03	1.04	51.1		2.50	-	-	*	
13C-PCB-19	7.31e+07	1.03 y	22:01	0.66	91.9		2.50				91.9
13C-PCB-9	1.20e+08	1.57 y	19:48	-	72.5		2.50				
PCB-37	4.18e+07	0.99 y	30:19	1.08	49.5		2.50	-	-	*	
13C-PCB-37	7.84e+07	1.03 y	30:17	1.03	101		2.50				101
PCB-54	4.42e+07	0.78 y	25:34	1.04	50.4		2.50	-	-	*	
13C-PCB-54	8.42e+07	0.80 y	25:33	1.09	102		2.50				102
PCB-104	3.99e+07	1.60 y	30:01	1.13	50.0		2.50	-	-	*	
13C-PCB-104	7.07e+07	1.58 y	29:60	0.98	95.7		2.50				95.7
13C-PCB-28	8.33e+07	1.01 y	26:38	1.01	109		2.50				109
13C-PCB-52	7.55e+07	0.80 y	28:54	-	63.5		2.50				
PCB-81	3.61e+07	0.76 y	36:04	1.07	48.5		2.50	-	-	*	
13C-PCB-81	6.95e+07	0.80 y	36:02	0.96	108		2.50				108
PCB-77	3.48e+07	0.75 y	36:38	1.01	48.6		2.50	-	-	*	
13C-PCB-77	7.09e+07	0.80 y	36:37	1.02	103		2.50				103
PCB-155	3.87e+07	1.26 y	34:10	1.05	48.6		2.50	-	-	*	
13C-PCB-155	7.57e+07	1.27 y	34:09	1.15	98.1		2.50				98.1
13C-PCB-111	7.98e+07	1.55 y	36:12	1.14	104		2.50				104
13C-PCB-101	6.70e+07	1.58 y	34:35	-	59.0		2.50				
PCB-123	2.91e+07	1.53 y	38:16	1.08	44.9		2.50	-	-	*	
13C-PCB-123	5.97e+07	1.56 y	38:16	0.97	112		2.50				112
PCB-118	3.01e+07	1.50 y	38:26	0.91	53.9		2.50	-	-	*	
13C-PCB-118	6.15e+07	1.58 y	38:26	1.06	106		2.50				106
PCB-114	2.81e+07	1.53 y	39:04	0.97	49.2		2.50	-	-	*	
13C-PCB-114	5.88e+07	1.58 y	39:02	1.04	103		2.50				103
PCB-105	2.95e+07	1.53 y	39:53	0.94	51.7		2.50	-	-	*	
13C-PCB-105	6.07e+07	1.59 y	39:51	1.03	107		2.50				107
PCB-126	2.69e+07	1.50 y	41:60	0.98	48.4		2.50	-	-	*	
13C-PCB-126	5.69e+07	1.56 y	41:58	0.91	114		2.50				114
PCB-167	3.13e+07	1.24 y	43:22	0.94	51.1		2.50	-	-	*	
13C-PCB-167	6.51e+07	1.26 y	43:20	1.12	106		2.50				106
PCB-156	3.05e+07	1.24 y	44:34	0.99	49.1		2.50	-	-	*	
13C-PCB-156	6.26e+07	1.27 y	44:34	1.07	107		2.50				107
PCB-157	2.98e+07	1.24 y	44:51	0.94	49.3		2.50	-	-	*	
13C-PCB-157	6.41e+07	1.24 y	44:49	1.10	107		2.50				107
PCB-169	2.61e+07	1.25 y	46:43	0.95	49.1		2.50	-	-	*	
13C-PCB-169	5.60e+07	1.22 y	46:41	0.98	104		2.50				104
PCB-188	3.63e+07	1.04 y	39:40	1.11	49.3		2.50	-	-	*	
13C-PCB-188	6.63e+07	1.06 y	39:38	1.23	98.1		2.50				98.1
PCB-189	2.56e+07	1.04 y	48:23	1.10	48.9		2.50	-	-	*	
13C-PCB-189	4.78e+07	1.06 y	48:23	0.90	96.9		2.50				96.9
PCB-202	2.66e+07	0.87 y	44:46	0.95	50.4		2.50	-	-	*	
13C-PCB-202	5.56e+07	0.90 y	44:44	1.00	101		2.50				101
13C-PCB-178	5.00e+07	1.08 y	42:16	0.84	109		2.50				109
13C-PCB-138	5.48e+07	1.25 y	41:28	-	56.1		2.50				

FAL ID: 03857-001-0001-OPR Filename: 28SEP16Y Sam:4 Acquired: 28-SEP-16 18:11:10 ICal: DAILY209FAL4-9-28-16Y2 of 2
Client ID: OPR ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 1.000

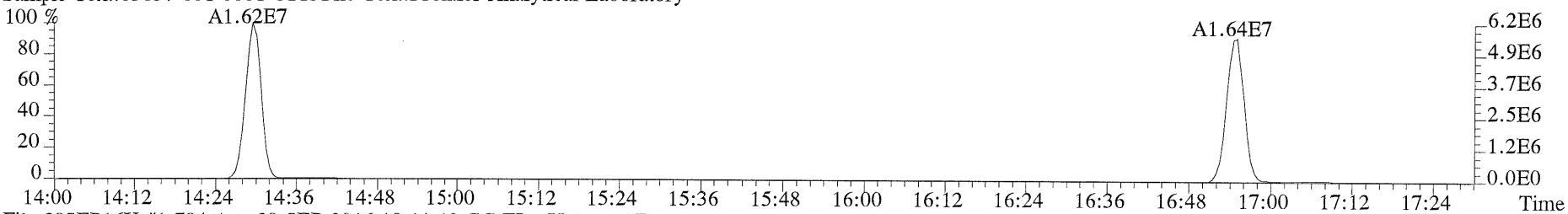
PCB-205	1.95e+07	0.88 y	50:03	1.00	50.9	2.50	-	-	*	
13C-PCB-205	3.81e+07	0.91 y	50:02	1.27	102	2.50				102
PCB-208	1.95e+07	1.36 y	49:08	0.93	50.3	2.50	-	-	*	
13C-PCB-208	4.16e+07	0.79 y	49:06	1.49	94.3	2.50				94.3
PCB-206	1.47e+07	1.37 y	51:15	0.99	49.6	2.50	-	-	*	
13C-PCB-206	2.98e+07	0.80 y	51:14	1.02	99.1	2.50				99.1
PCB-209	2.32e+07	1.18 y	52:26	1.06	49.0	2.50	-	-	*	
13C-PCB-209	4.48e+07	1.21 y	52:26	1.58	96.2	2.50				96.2
13C-PCB-194	2.96e+07	0.90 y	49:48	-	56.4	2.50				

Analyst: [illegible] Date: 10/7/14

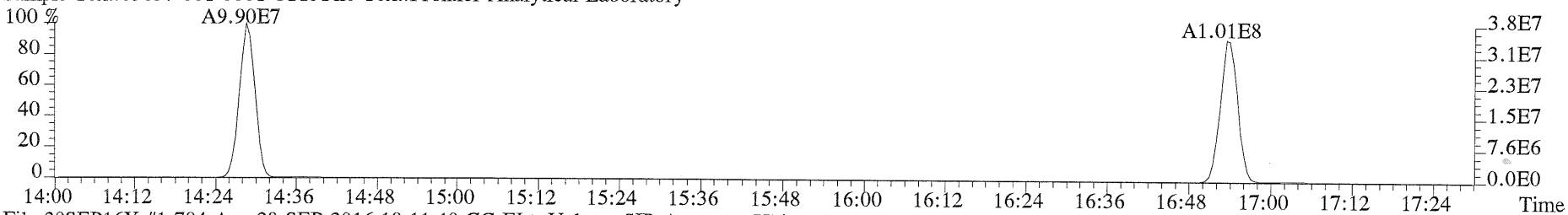
File:28SEP16Y #1-784 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



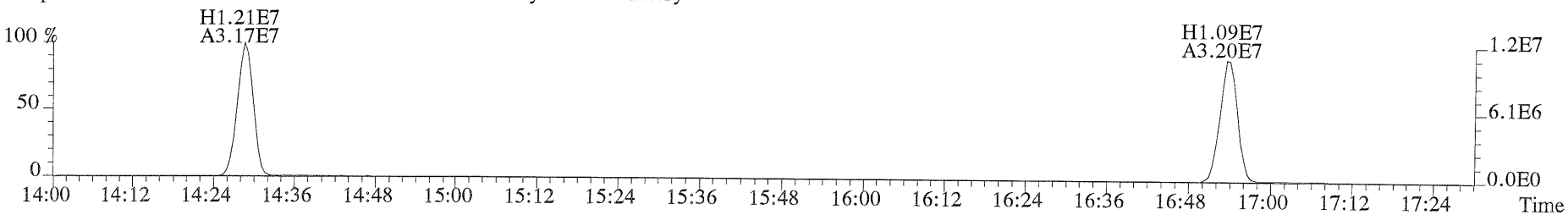
File:28SEP16Y #1-784 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



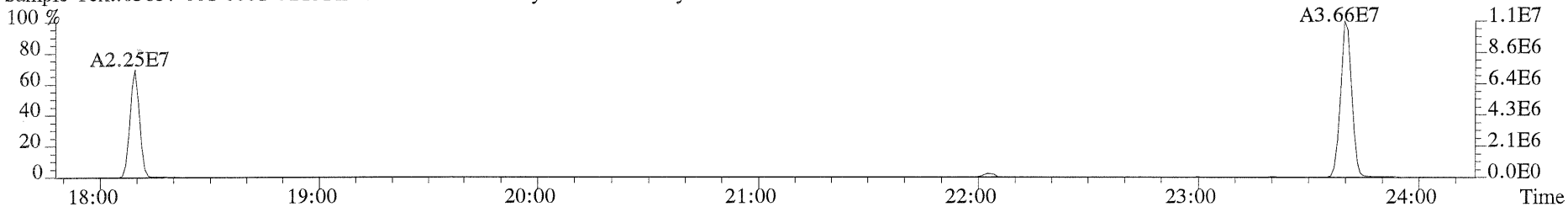
File:28SEP16Y #1-784 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



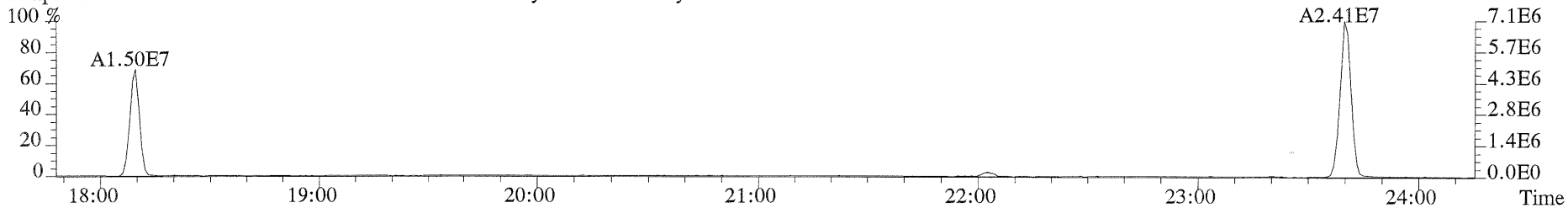
File:28SEP16Y #1-784 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



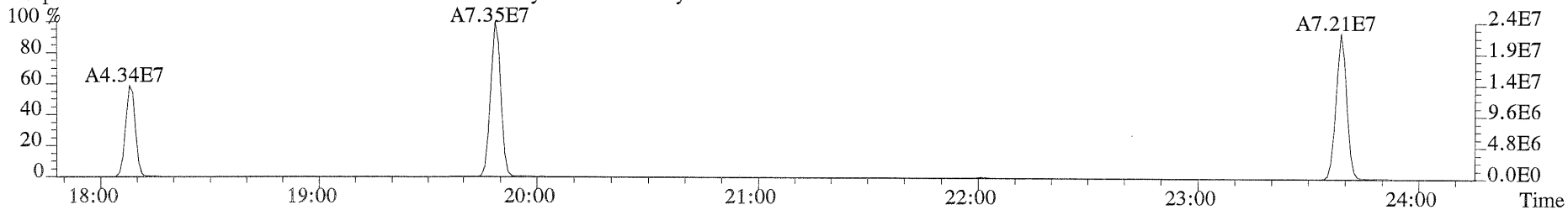
File:28SEP16Y #1-509 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



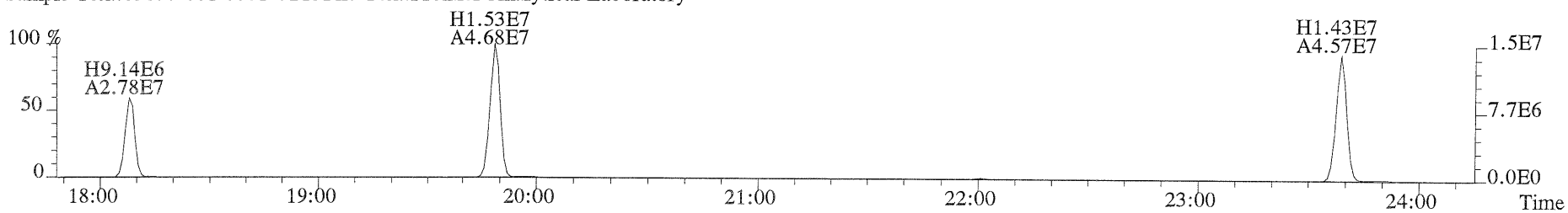
File:28SEP16Y #1-509 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



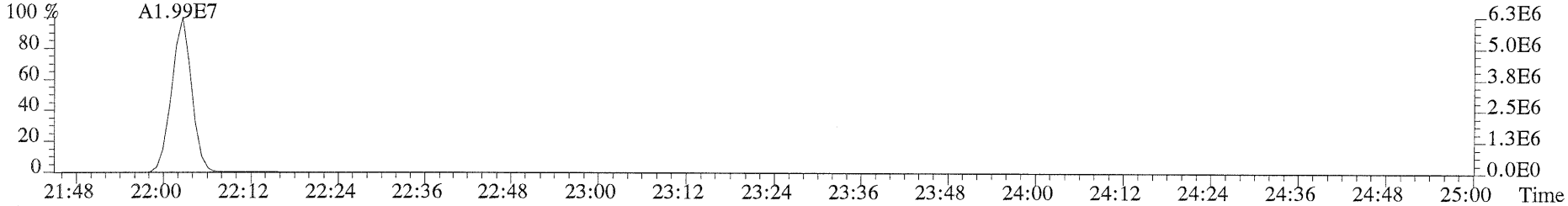
File:28SEP16Y #1-509 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



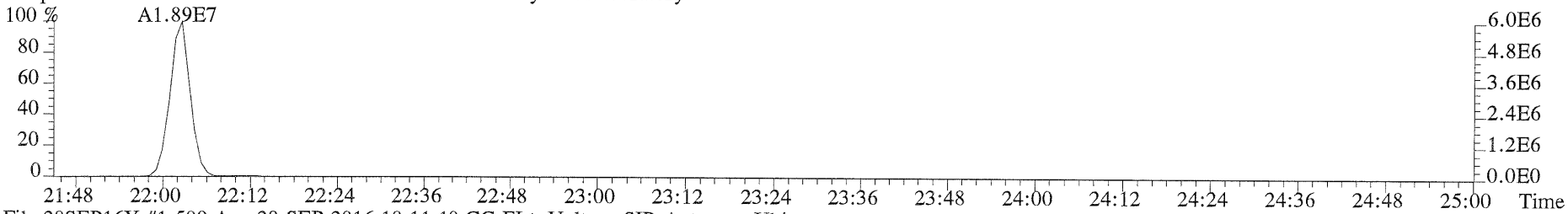
File:28SEP16Y #1-509 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



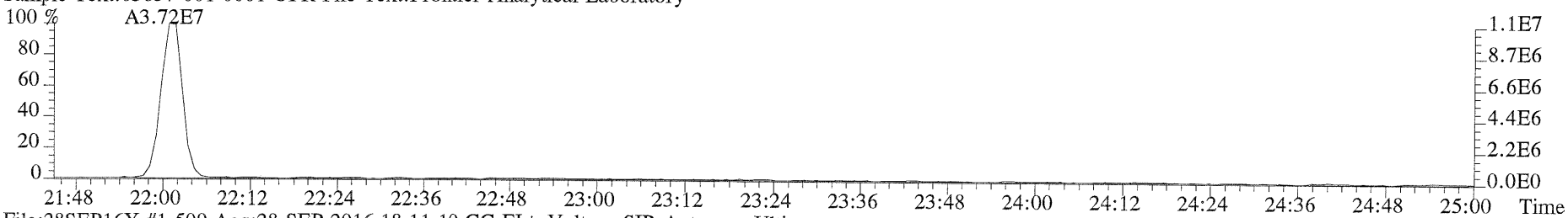
File:28SEP16Y #1-509 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



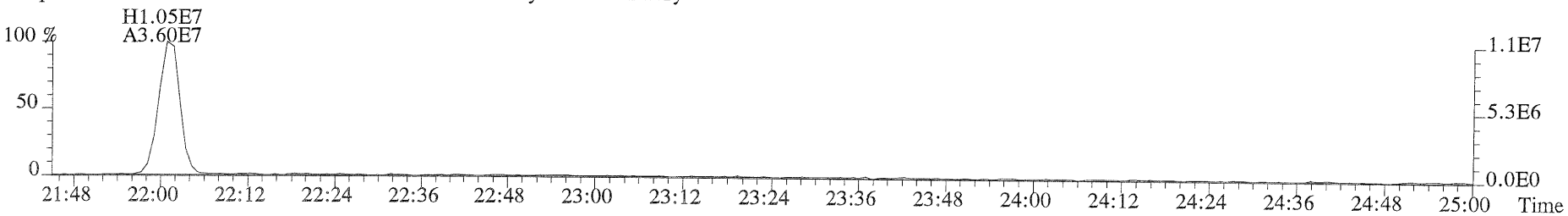
File:28SEP16Y #1-509 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



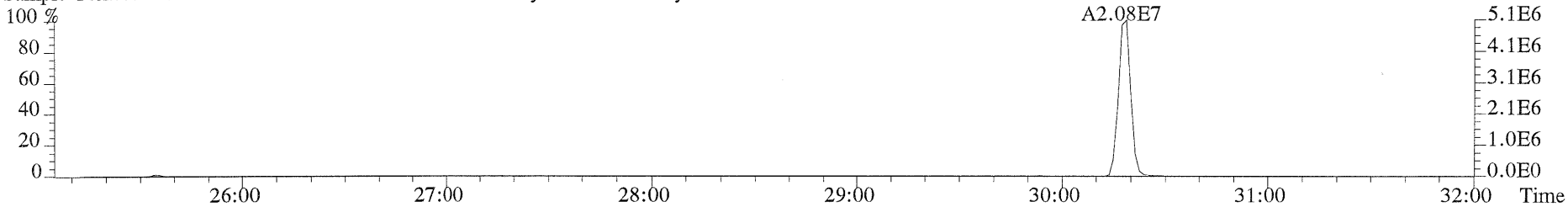
File:28SEP16Y #1-509 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



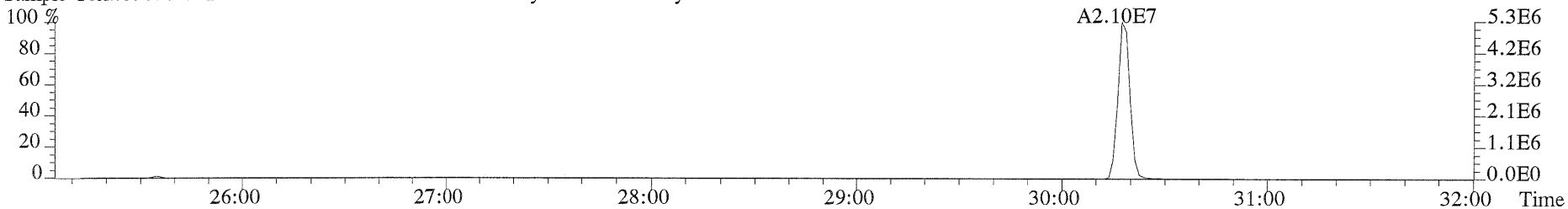
File:28SEP16Y #1-509 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



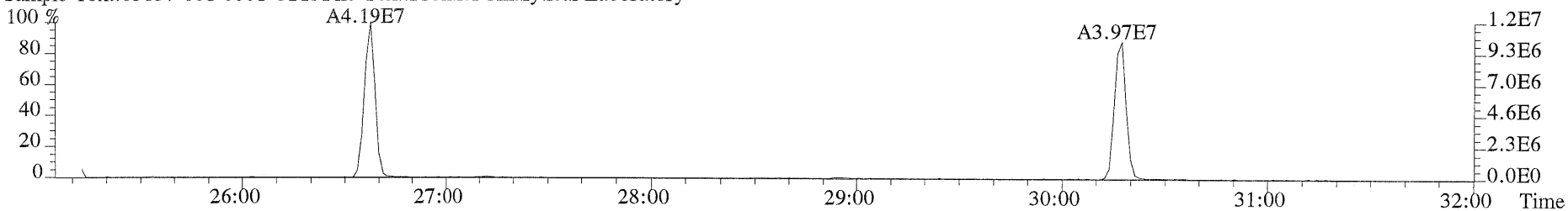
File:28SEP16Y #1-403 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



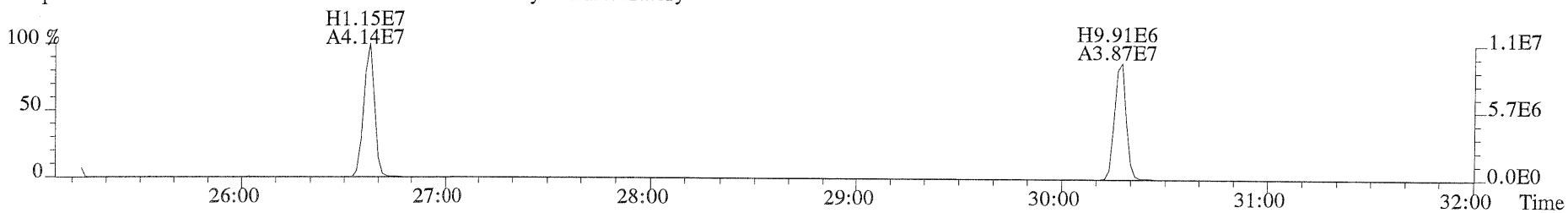
File:28SEP16Y #1-403 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



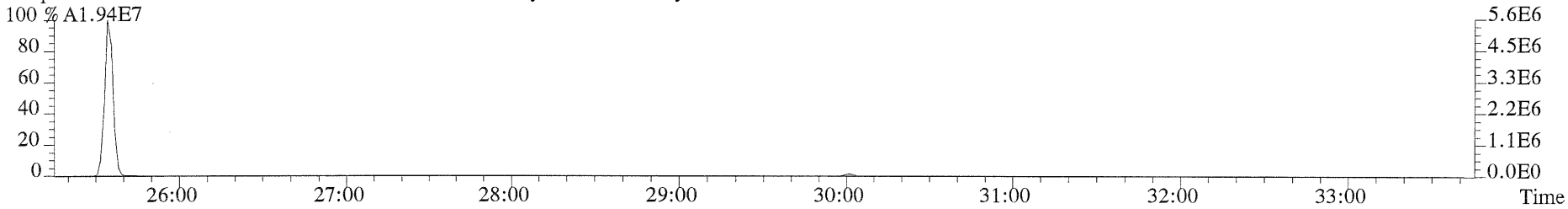
File:28SEP16Y #1-403 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



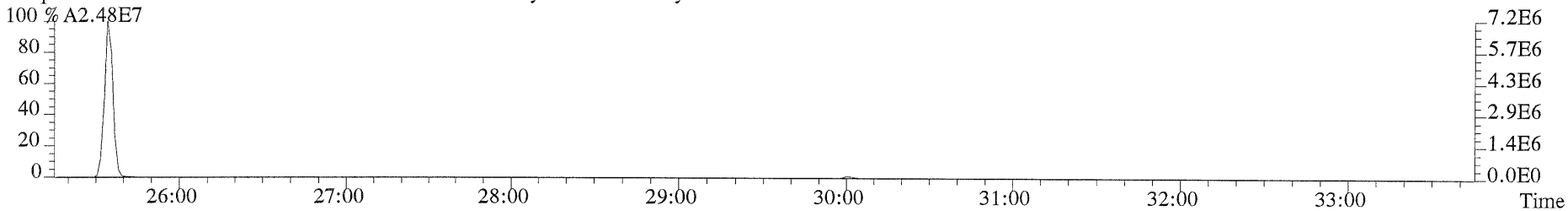
File:28SEP16Y #1-403 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



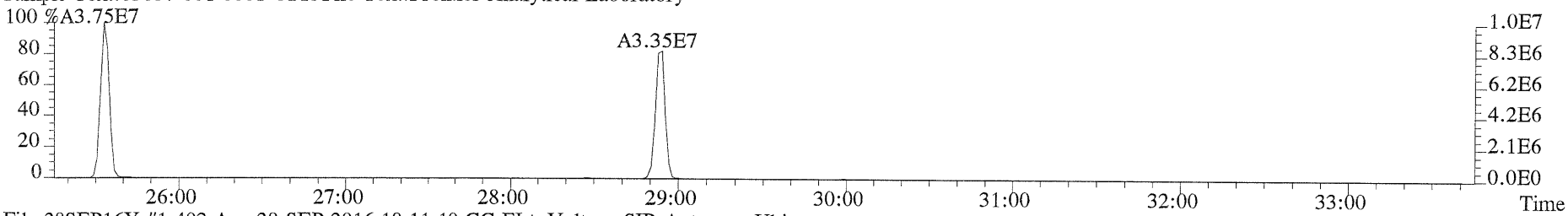
File:28SEP16Y #1-403 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



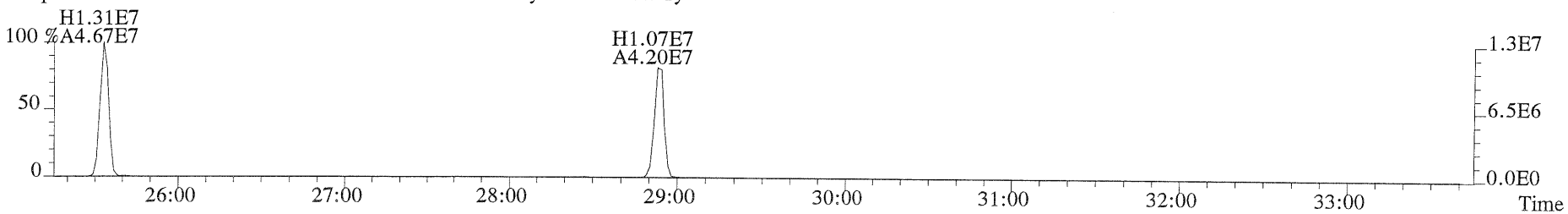
File:28SEP16Y #1-403 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



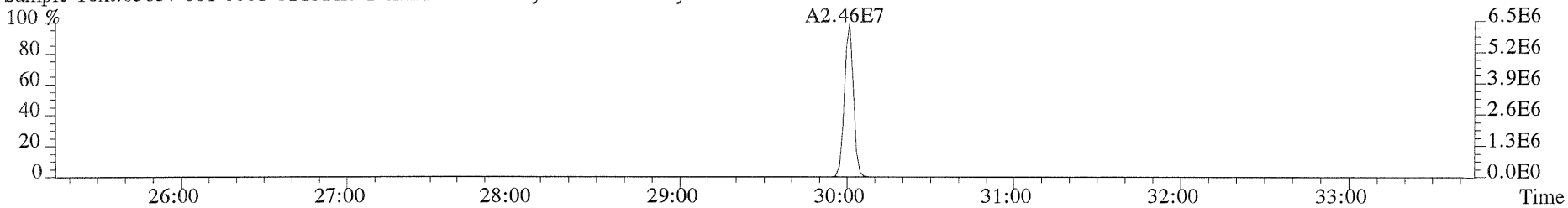
File:28SEP16Y #1-403 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



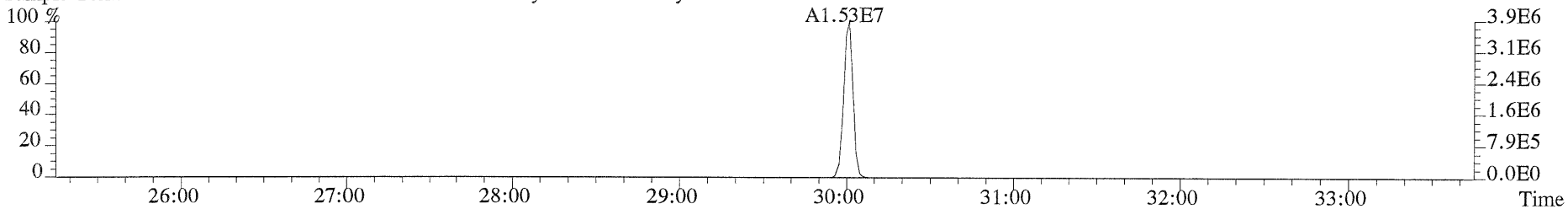
File:28SEP16Y #1-403 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



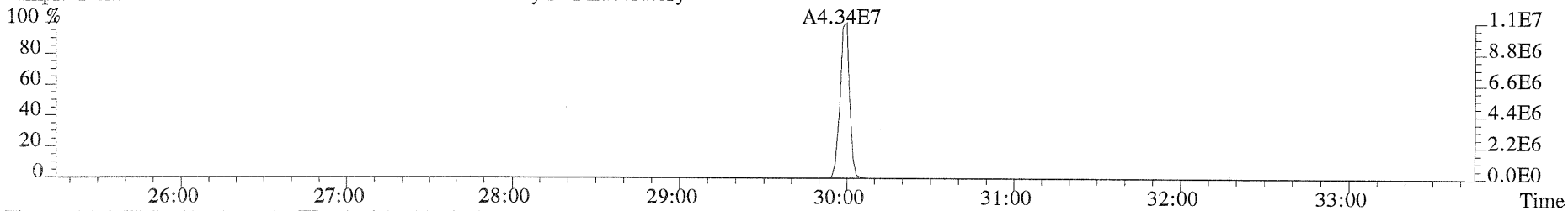
File:28SEP16Y #1-403 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



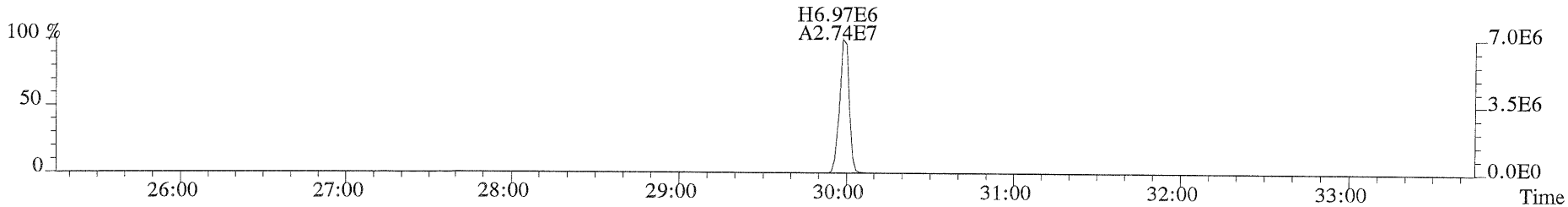
File:28SEP16Y #1-403 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



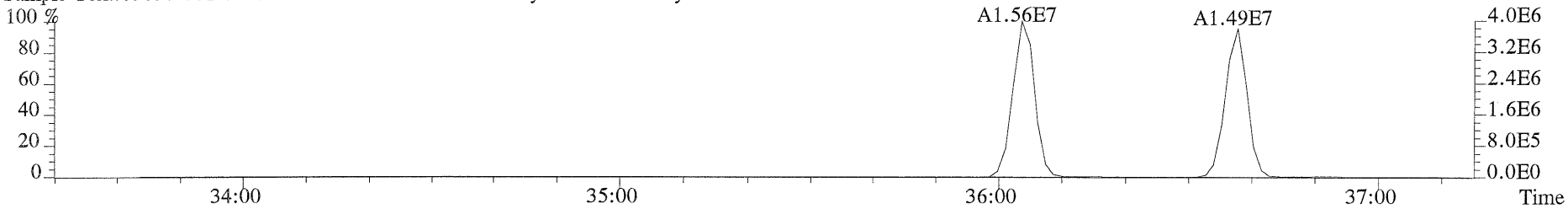
File:28SEP16Y #1-403 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



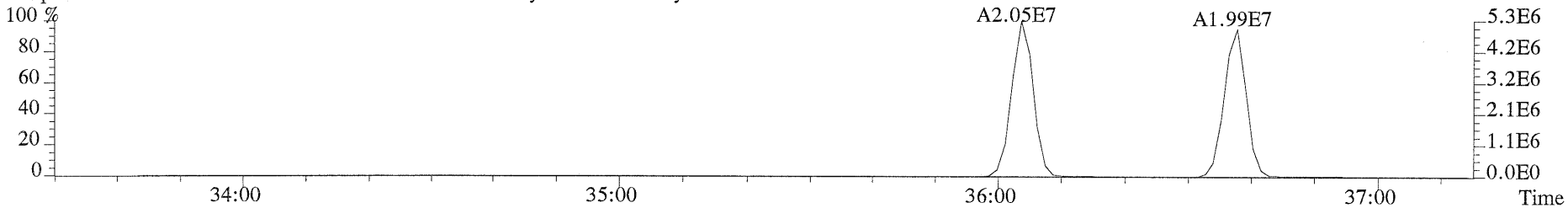
File:28SEP16Y #1-403 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



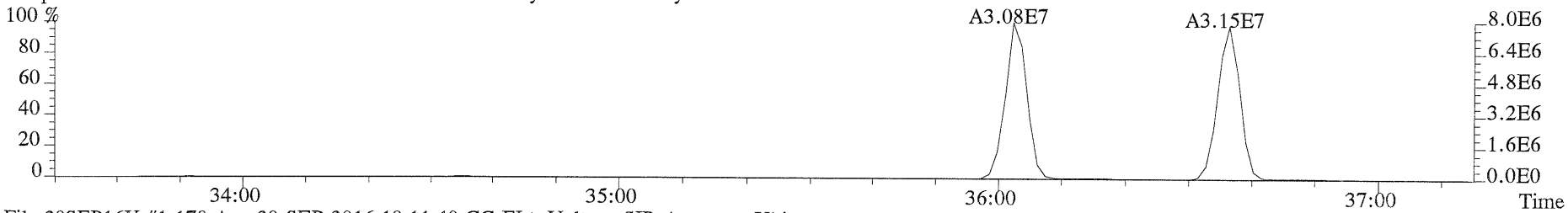
File:28SEP16Y #1-178 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



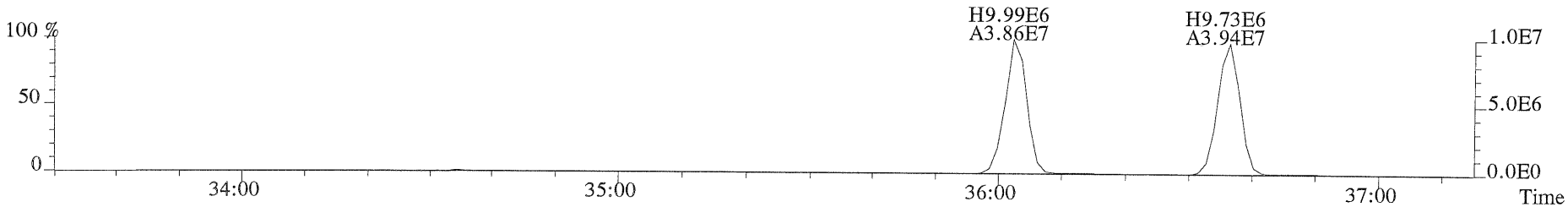
File:28SEP16Y #1-178 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



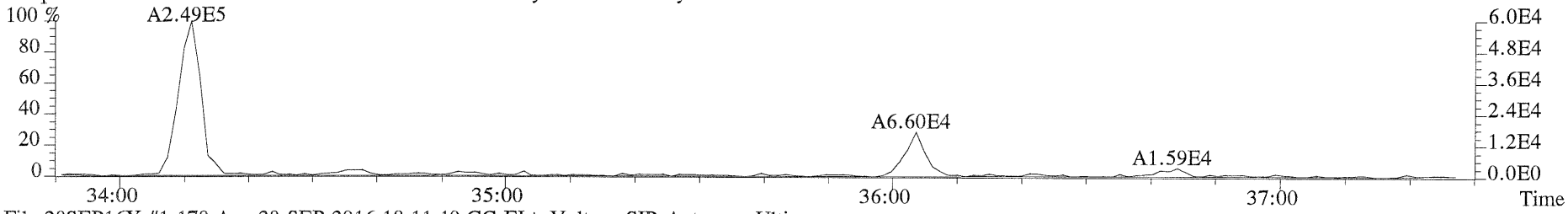
File:28SEP16Y #1-178 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



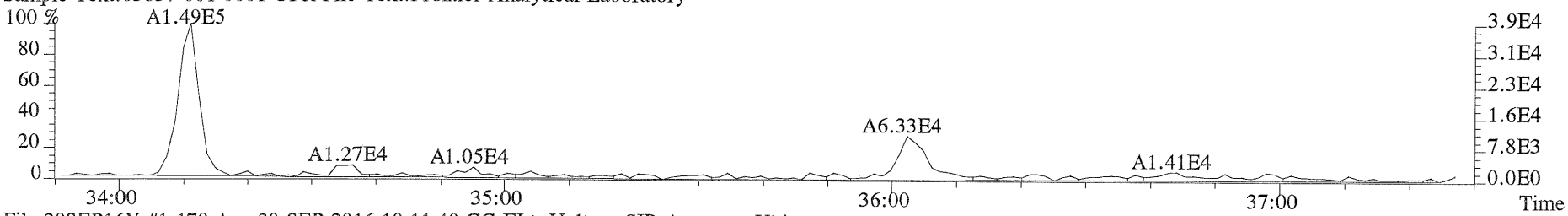
File:28SEP16Y #1-178 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



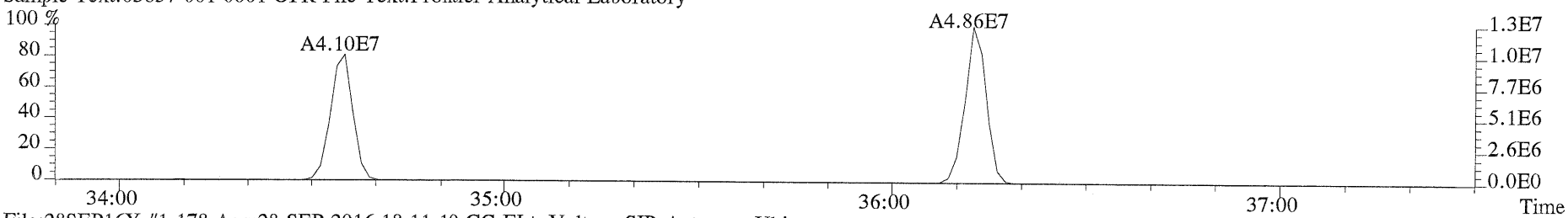
File:28SEP16Y #1-178 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



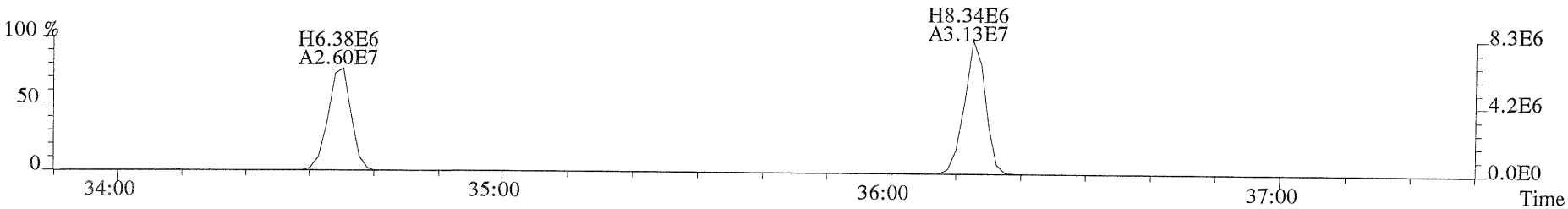
File:28SEP16Y #1-178 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



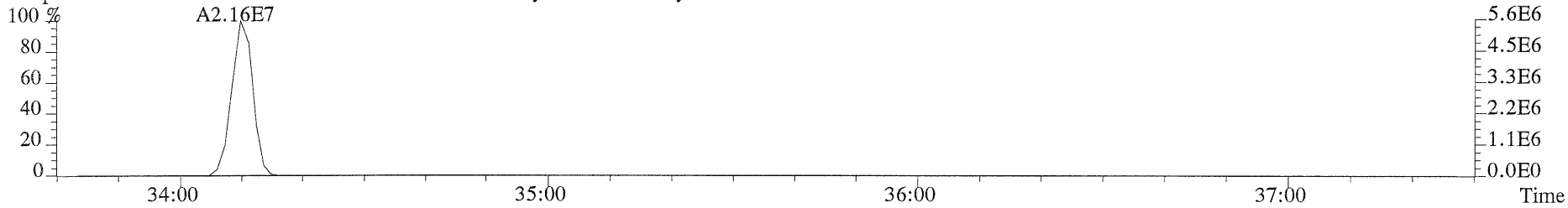
File:28SEP16Y #1-178 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



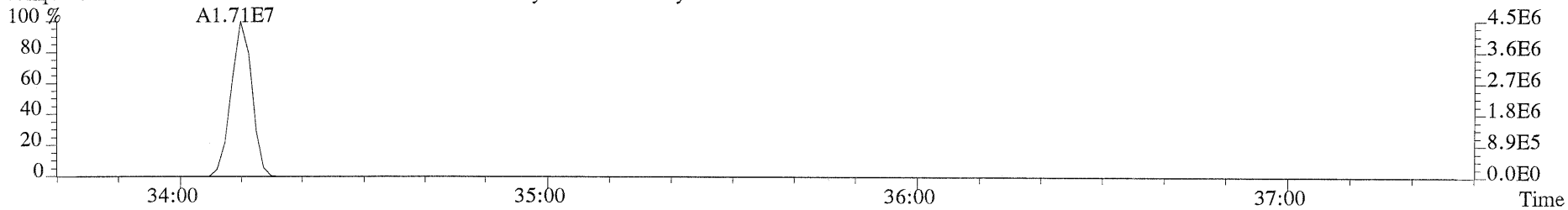
File:28SEP16Y #1-178 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



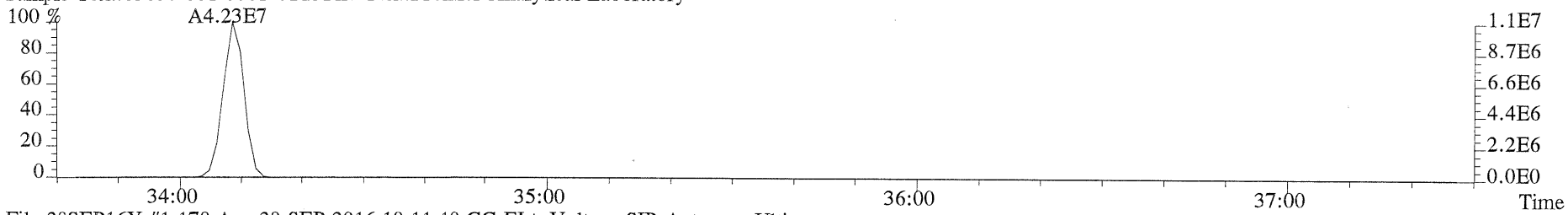
File:28SEP16Y #1-178 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



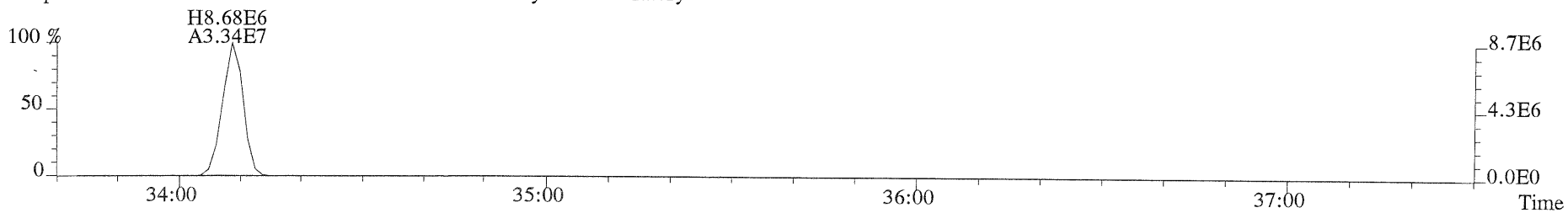
File:28SEP16Y #1-178 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



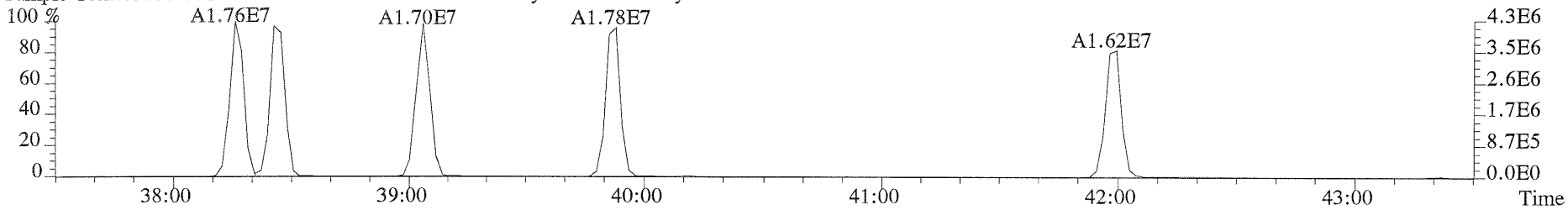
File:28SEP16Y #1-178 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



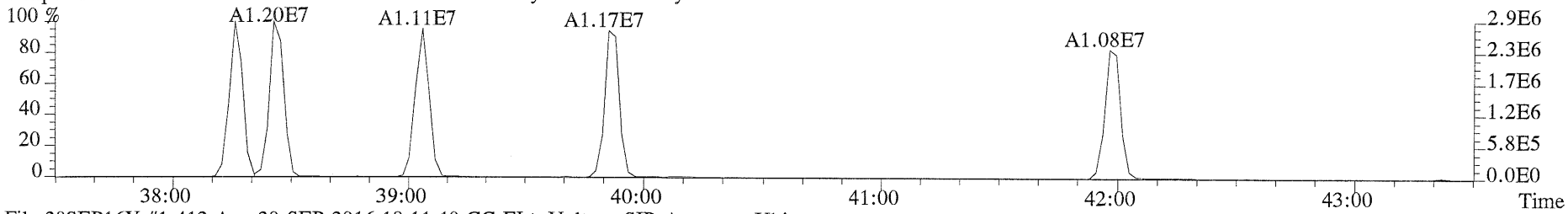
File:28SEP16Y #1-178 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



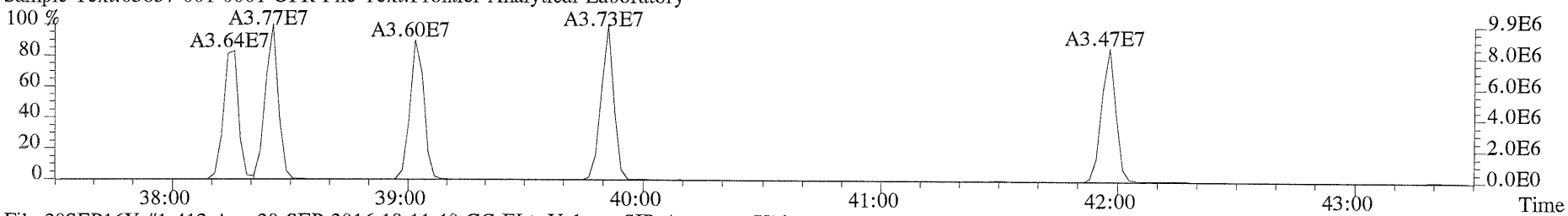
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



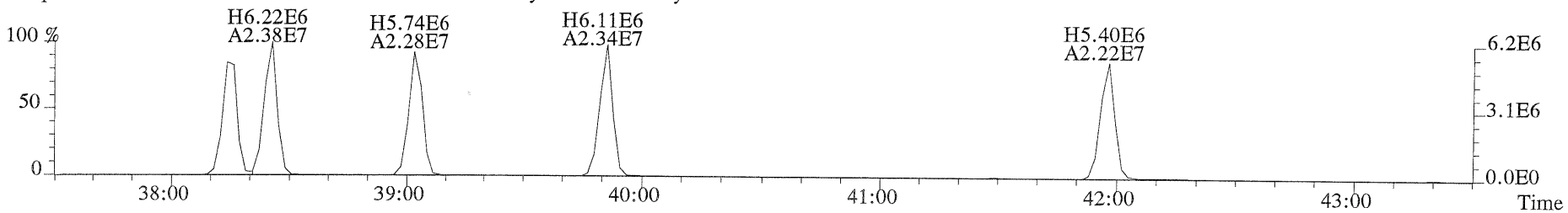
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



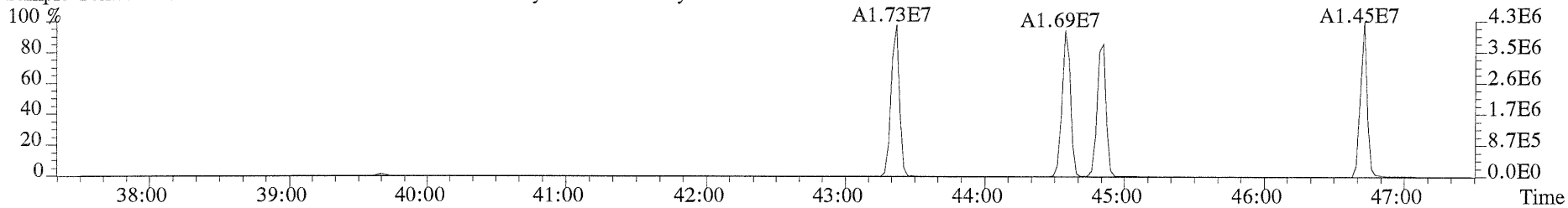
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



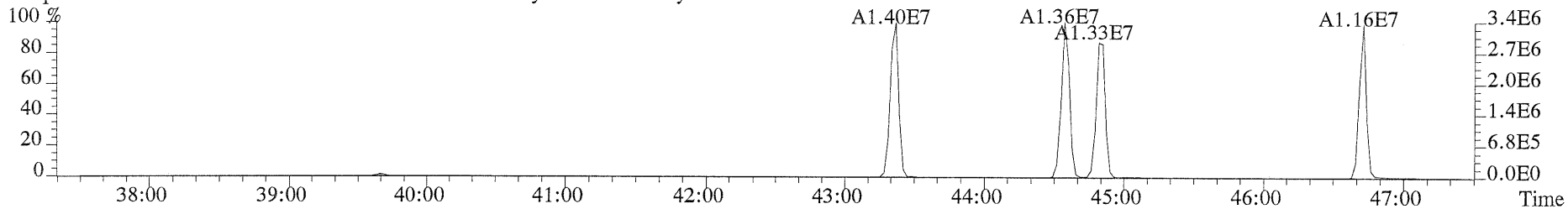
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



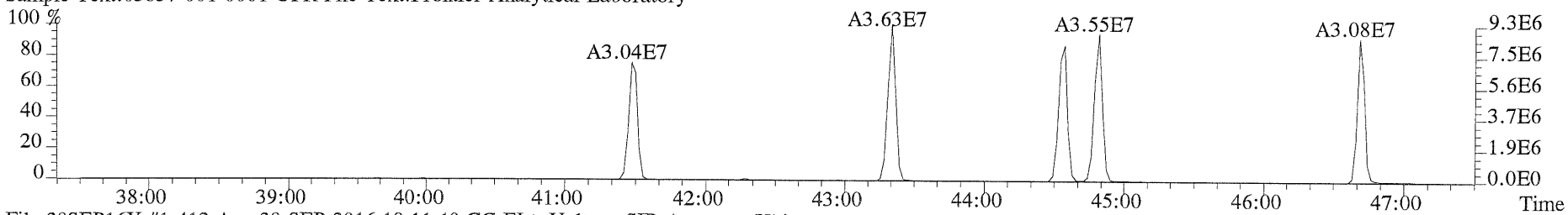
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



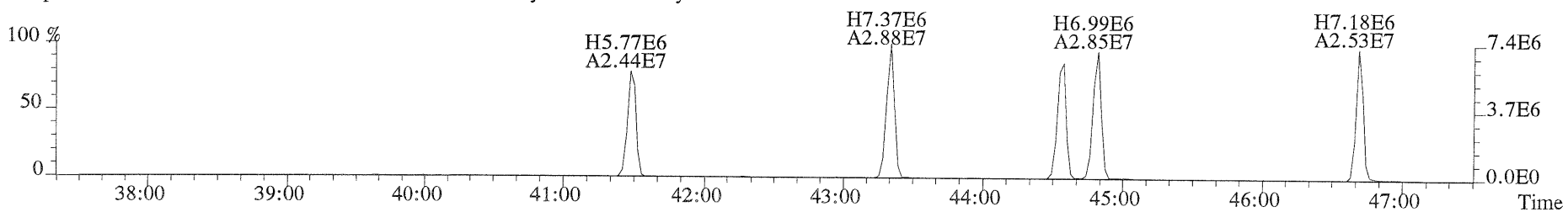
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



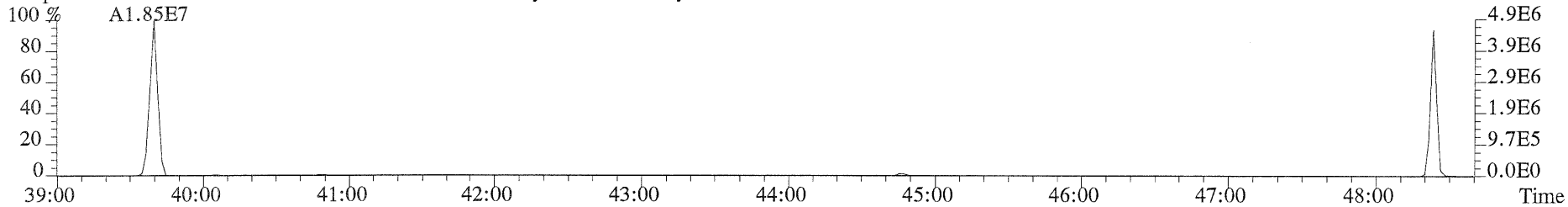
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



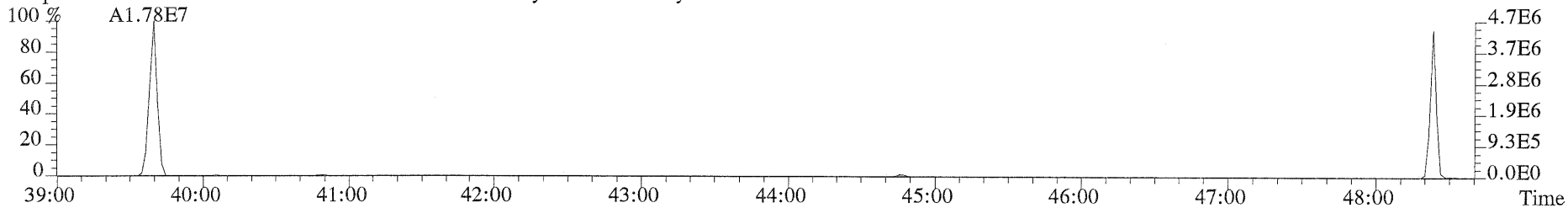
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



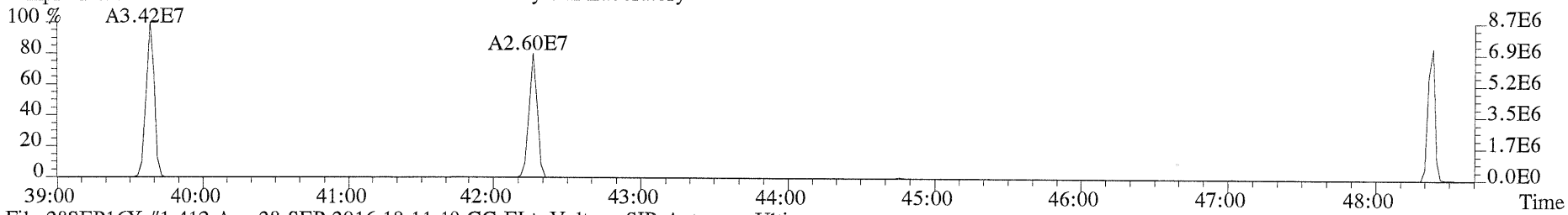
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



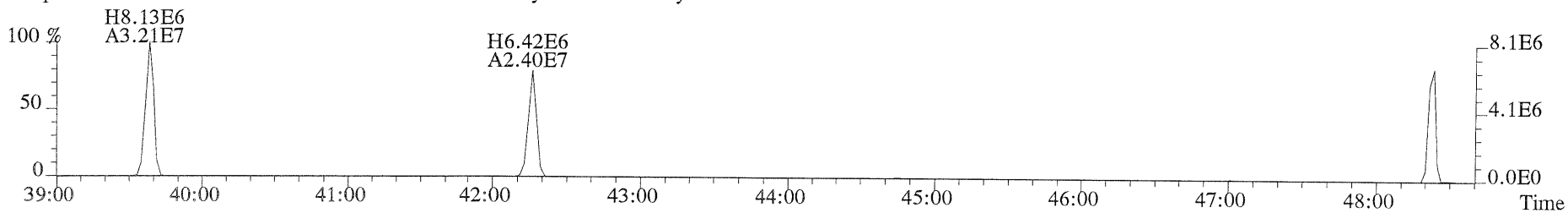
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



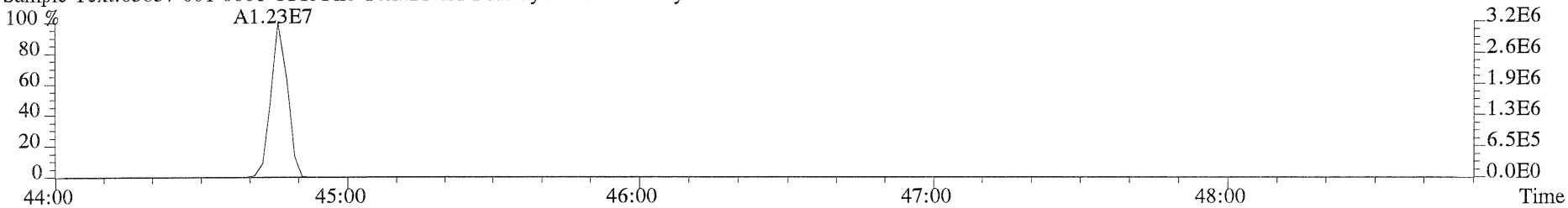
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



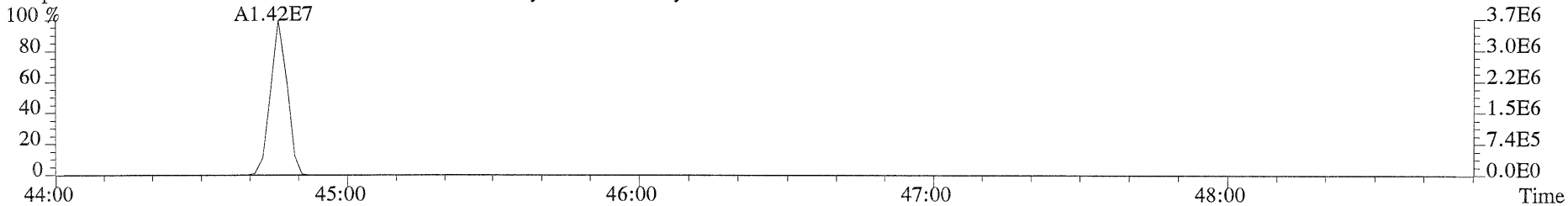
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



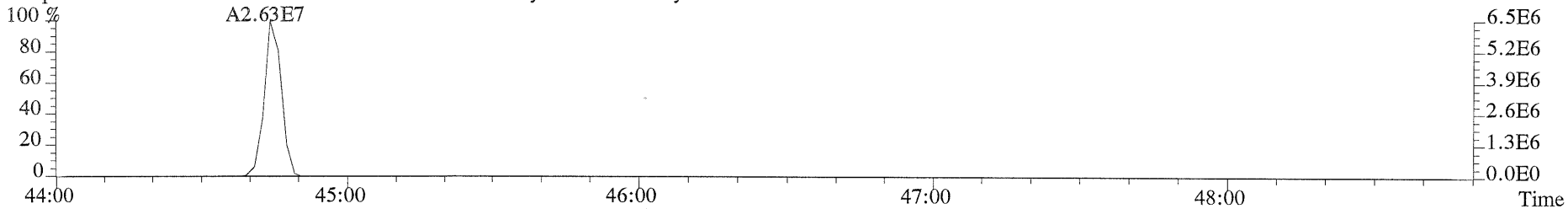
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



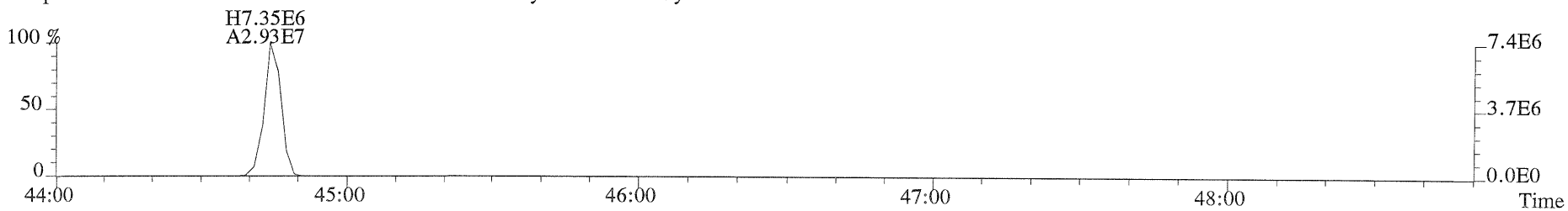
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



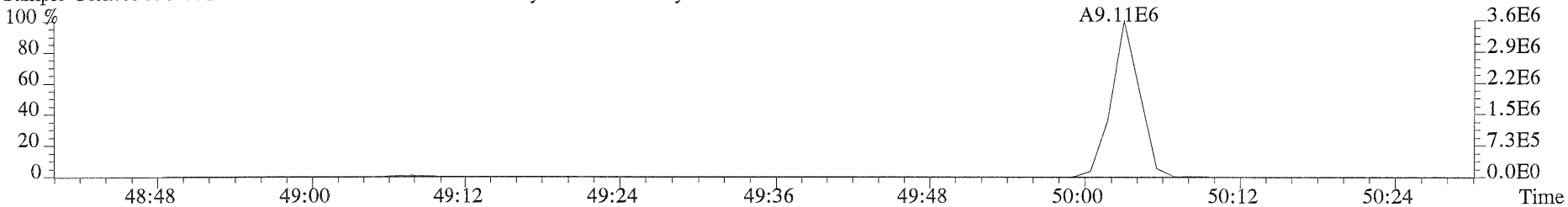
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



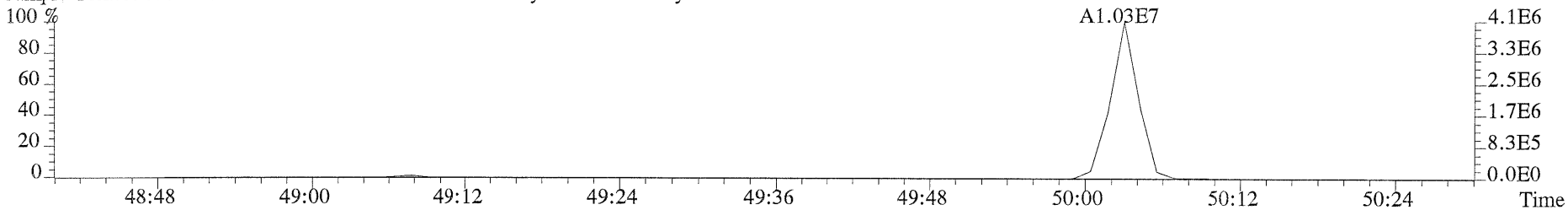
File:28SEP16Y #1-412 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



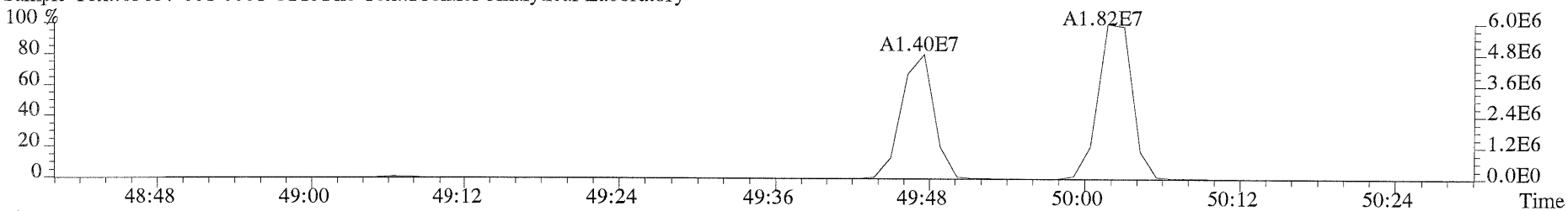
File:28SEP16Y #1-221 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



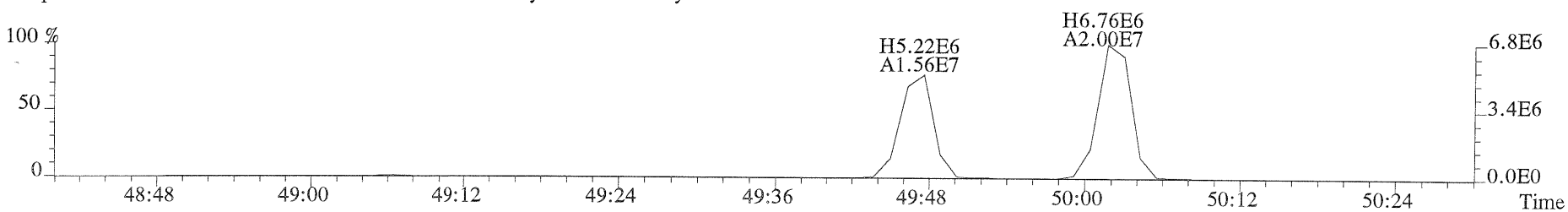
File:28SEP16Y #1-221 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



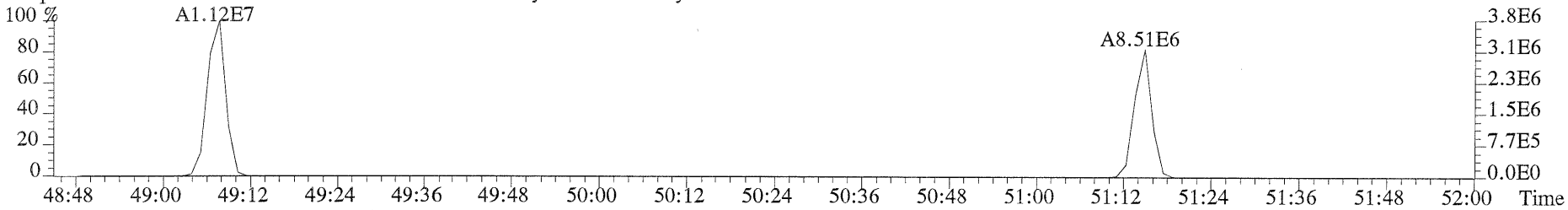
File:28SEP16Y #1-221 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



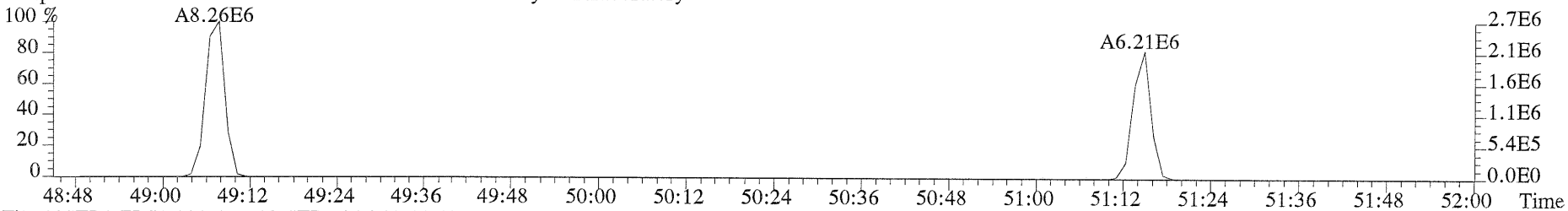
File:28SEP16Y #1-221 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



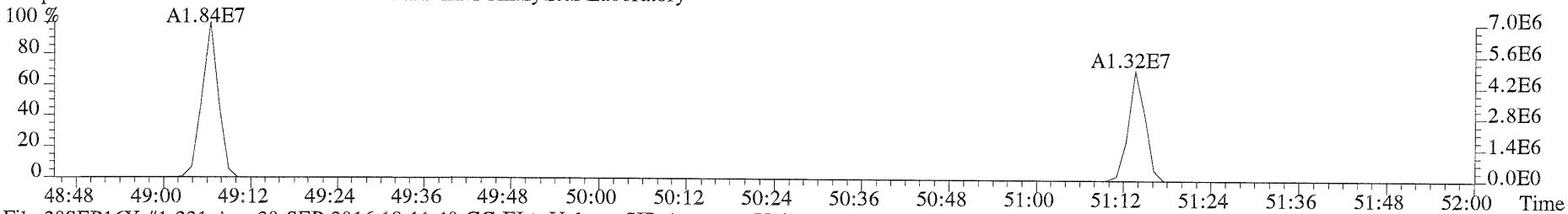
File:28SEP16Y #1-221 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



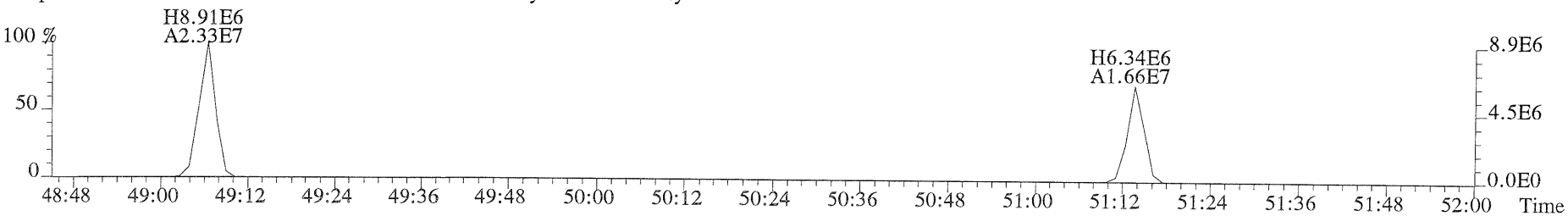
File:28SEP16Y #1-221 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



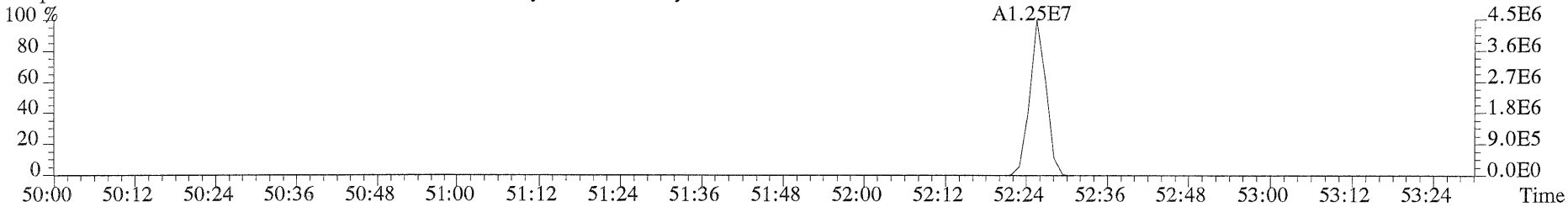
File:28SEP16Y #1-221 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



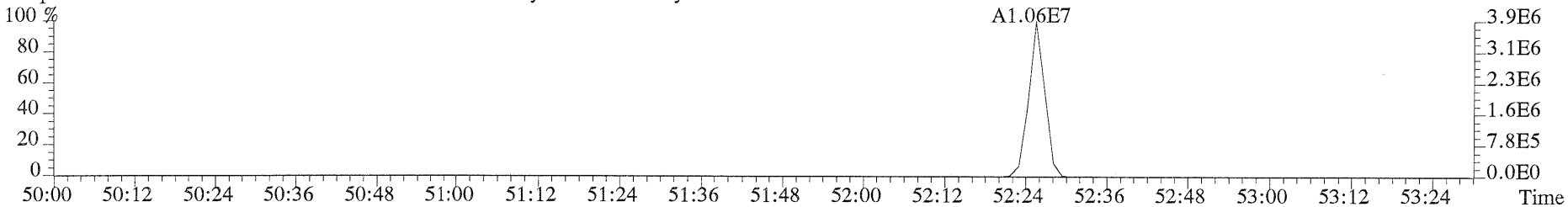
File:28SEP16Y #1-221 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



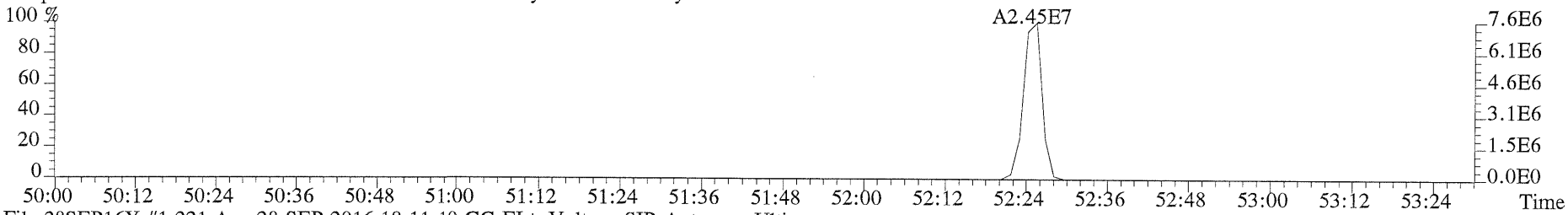
File:28SEP16Y #1-221 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



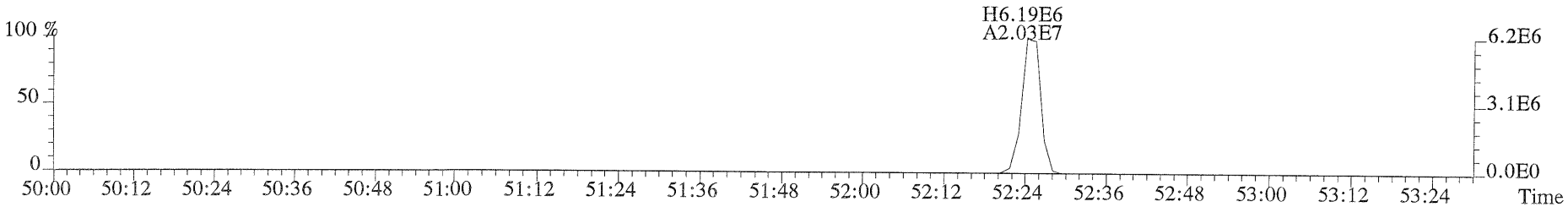
File:28SEP16Y #1-221 Acq:28-SEP-2016 18:11:10 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 18:11:10 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:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 18:11:10 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:03857-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 10147-001-0001-SA Filename: 28SEP16Y Sam:8 Acquired: 28-SEP-16 21:57:08 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-SC-ENR+AC-CA-CORE ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.030

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	3.78e+05	2.94 y	14:30	1.00	7.82		-	-	*	
13C-PCB-1	9.61e+07	3.15 y	14:29	1.29	1480					74.4
PCB-2	1.25e+05	3.16 y	16:43	0.91	2.61	J	-	-	*	
PCB-3	3.57e+05	3.04 y	16:55	0.96	6.56		-	-	*	
13C-PCB-3	1.13e+08	3.17 y	16:54	1.26	1770					89.2
PCB-4	1.09e+06	1.49 y	18:10	0.95	37.3		-	-	*	
PCB-10	1.04e+05	1.52 y	18:14	1.14	2.34	J	-	-	*	
13C-PCB-4	6.08e+07	1.56 y	18:09	0.64	1880					94.4
PCB-9	3.83e+05	1.34 y	19:53	1.21	8.18		-	-	*	
PCB-7	3.11e+05	1.52 y	19:54	1.16	6.94		-	-	*	
PCB-6	2.47e+06	1.43 y	20:29	1.14	55.9		-	-	*	
PCB-8	7.77e+06	1.51 y	20:51	1.15	175		-	-	*	
PCB-5	*	* n	NotFnd	1.17	*		2020	742	0.509	
PCB-14	*	* n	NotFnd	1.14	*		2020	742	0.522	
PCB-11	4.61e+05	1.38 y	23:02	1.10	10.8		-	-	*	
PCB-13	6.20e+05	1.38 y	23:23	1.08	14.8		-	-	*	
PCB-12	1.17e+05	1.41 y	23:25	1.17	2.60	J	-	-	*	
PCB-15	4.78e+06	1.45 y	23:42	1.08	94.5		-	-	*	
13C-PCB-15	9.29e+07	1.58 y	23:40	1.00	1850					93.0
PCB-19	6.28e+05	1.10 y	22:04	1.04	20.9		-	-	*	
PCB-30	*	* n	NotFnd	1.45	*		1440	1360	0.594	
PCB-18	7.13e+06	1.06 y	23:37	1.01	243		-	-	*	
PCB-17	3.67e+06	1.06 y	23:47	1.08	118		-	-	*	
PCB-27	7.05e+05	1.05 y	24:18	1.55	15.7		-	-	*	
PCB-24	4.11e+05	1.09 y	24:19	1.32	10.8		-	-	*	
PCB-16	2.51e+06	1.06 y	24:47	1.15	75.4		-	-	*	
PCB-32	3.48e+06	1.04 y	24:48	1.34	89.9		-	-	*	
13C-PCB-19	5.74e+07	1.06 y	22:02	0.66	1720					86.6
13C-PCB-9	1.00e+08	1.59 y	19:50	-	12.0					
PCB-34	*	* n	NotFnd	0.81	*		1220	1090	1.32	
PCB-23	*	* n	NotFnd	0.90	*		1220	1090	1.19	
PCB-29	1.14e+05	1.19 y	25:53	0.90	4.69		-	-	*	
PCB-26	2.98e+06	0.99 y	26:04	0.97	113		-	-	*	
PCB-25	2.00e+06	1.01 y	26:13	1.21	60.8		-	-	*	
PCB-31	1.21e+07	0.96 y	26:34	0.97	456		-	-	*	
PCB-28	1.33e+07	0.98 y	26:40	1.08	455		-	-	*	
PCB-20	6.61e+06	0.99 y	27:17	1.02	238		-	-	*	Co-elute PCB 21/33
PCB-21	6.61e+06	0.99 y	27:17	1.02	238		-	-	*	Co-elute PCB 20/33
PCB-33	6.61e+06	0.99 y	27:17	1.02	238		-	-	*	Co-elute PCB 20/21
PCB-22	4.38e+06	1.00 y	27:41	1.08	149		-	-	*	
PCB-36	*	* n	NotFnd	0.96	*		1220	1090	1.12	
PCB-39	*	* n	NotFnd	1.00	*		1220	1090	1.08	
PCB-38	*	* n	NotFnd	0.91	*		1220	1090	1.17	
PCB-35	*	* n	NotFnd	1.01	*		1220	1090	1.06	
PCB-37	3.44e+06	1.05 y	30:26	1.08	117		-	-	*	
13C-PCB-37	5.41e+07	1.03 y	30:25	1.03	1820					91.4

PCB-54	*	*	n	NotFnd	1.04	*		1080	1180	0.628	
PCB-50	*	*	n	NotFnd	0.79	*		1080	1180	0.827	
PCB-53	1.71e+06	0.78	y	27:19	0.80	65.5		-	-	*	
PCB-51	6.52e+05	0.76	y	27:38	0.84	23.7		-	-	*	
PCB-45	1.40e+06	0.80	y	28:02	0.72	59.5		-	-	*	
PCB-46	5.15e+05	0.81	y	28:30	0.69	22.7		-	-	*	
PCB-52	1.47e+07	0.78	y	28:58	0.99	451		-	-	*	Co-elute PCB 69
PCB-69	1.47e+07	0.78	y	28:58	0.99	451		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.07	*		1080	1180	0.613	
PCB-43	9.39e+06	0.78	y	29:15	0.79	363		-	-	*	Co-elute PCB 49
PCB-49	9.39e+06	0.78	y	29:15	0.79	363		-	-	*	Co-elute PCB 43
PCB-47	3.40e+06	0.77	y	29:27	1.07	96.9		-	-	*	
PCB-48	2.30e+06	0.78	y	29:34	0.94	74.3		-	-	*	Co-elute PCB 75
PCB-75	2.30e+06	0.78	y	29:34	0.94	74.3		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*		1080	1180	0.662	
PCB-62	*	*	n	NotFnd	0.99	*		1080	1180	0.660	
PCB-44	7.08e+06	0.78	y	30:16	0.73	293		-	-	*	
PCB-42	3.40e+06	0.77	y	30:30	0.98	105		-	-	*	Co-elute PCB 59
PCB-59	3.40e+06	0.77	y	30:30	0.98	105		-	-	*	Co-elute PCB 42
PCB-72	7.07e+06	0.77	y	31:09	1.09	198		-	-	*	Co-elute PCB 41/71/64
PCB-41	7.07e+06	0.77	y	31:09	1.09	198		-	-	*	Co-elute PCB 72/71/64
PCB-71	7.07e+06	0.77	y	31:09	1.09	198		-	-	*	Co-elute PCB 72/41/64
PCB-64	7.07e+06	0.77	y	31:09	1.09	198		-	-	*	Co-elute PCB 72/41/71
PCB-68	6.65e+04	0.81	y	31:26	1.12	1.80	J	-	-	*	
PCB-40	6.28e+05	0.78	y	31:37	0.63	30.1		-	-	*	
PCB-57	*	*	n	NotFnd	1.08	*		1080	1180	0.605	
PCB-67	5.96e+05	0.76	y	32:05	1.07	16.9		-	-	*	
PCB-58	*	*	n	NotFnd	1.08	*		1080	1180	0.605	
PCB-63	7.02e+05	0.76	y	32:20	1.08	19.8		-	-	*	
PCB-74	8.00e+06	0.77	y	32:36	1.18	206		-	-	*	
PCB-61	1.80e+07	0.77	y	32:48	1.15	474		-	-	*	Co-elute PCB 70
PCB-70	1.80e+07	0.77	y	32:48	1.15	474		-	-	*	Co-elute PCB 61
PCB-76	1.67e+07	0.77	y	32:59	1.13	446		-	-	*	Co-elute PCB 66
PCB-66	1.67e+07	0.77	y	32:59	1.13	446		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.27	*		1080	1180	0.516	
PCB-55	3.75e+05	0.70	y	33:28	1.13	10.1		-	-	*	
13C-PCB-54	6.54e+07	0.81	y	25:34	1.09	2070					104
PCB-104	*	*	n	NotFnd	1.13	*		776	796	0.780	
PCB-96	*	*	n	NotFnd	1.06	*		776	796	0.833	
PCB-103	1.80e+05	1.49	y	31:48	0.88	9.10		-	-	*	
PCB-100	2.09e+05	1.36	y	32:09	0.87	10.7		-	-	*	
PCB-94	9.83e+04	1.66	y	32:34	0.74	5.88		-	-	*	
PCB-98	*	*	n	NotFnd	1.06	*		776	796	0.833	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	1.06	*		776	796	0.833	Co-elute PCB 98
PCB-95	1.57e+07	1.58	y	33:03	0.63	1100		-	-	*	
PCB-93	*	*	n	NotFnd	0.63	*		776	796	1.40	
PCB-88	2.91e+06	1.51	y	33:26	0.83	156		-	-	*	Co-elute PCB 91
PCB-91	2.91e+06	1.51	y	33:26	0.83	156		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.99	*		776	796	0.891	
13C-PCB-104	4.47e+07	1.61	y	30:05	0.98	1570					79.2
13C-PCB-28	6.81e+07	1.01	y	26:39	1.01	2320					117
13C-PCB-52	5.76e+07	0.79	y	28:56	-	9.64					

PCB-56	7.14e+06	0.74	y	33:57	0.89	270		-	-	*	Co-elute PCB 60
PCB-60	7.14e+06	0.74	y	33:57	0.89	270		-	-	*	Co-elute PCB 56
PCB-79	2.05e+05	0.70	y	34:58	1.00	6.91		-	-	*	
PCB-78	*	*	n	NotFnd	0.97	*		780	1100	0.666	
PCB-81	3.09e+05	0.69	y	36:08	1.07	9.90		-	-	*	
13C-PCB-81	5.80e+07	0.81	y	36:06	0.96	2250					113
PCB-77	1.36e+06	0.82	y	36:40	1.01	44.7		-	-	*	
13C-PCB-77	5.98e+07	0.82	y	36:39	1.02	2190					110
PCB-155	*	*	n	NotFnd	1.05	*		568	568	0.386	
PCB-150	1.28e+05	1.15	y	35:24	0.96	4.65		-	-	*	
PCB-152	3.50e+04	1.12	y	35:52	0.94	1.30	J	-	-	*	
PCB-145	*	*	n	NotFnd	0.94	*		568	568	0.434	
PCB-136	4.99e+06	1.25	y	36:35	0.94	184		-	-	*	
PCB-148	6.14e+04	1.20	y	36:40	0.68	3.16	J	-	-	*	
PCB-154	7.03e+05	1.28	y	37:08	0.80	30.7		-	-	*	
13C-PCB-155	5.69e+07	1.26	y	34:12	1.15	1850					93.0
13C-PCB-111	6.53e+07	1.58	y	36:16	1.14	2140					108
13C-PCB-101	5.32e+07	1.59	y	34:37	-	9.31					
PCB-84	7.57e+06	1.54	y	34:17	0.87	343		-	-	*	Co-elute PCB 92
PCB-92	7.57e+06	1.54	y	34:17	0.87	343		-	-	*	Co-elute PCB 84
PCB-89	1.99e+05	1.47	y	34:29	0.86	9.10		-	-	*	
PCB-90	2.30e+07	1.57	y	34:39	0.98	923		-	-	*	Co-elute PCB 101
PCB-101	2.30e+07	1.57	y	34:39	0.98	923		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.12	*		1000	976	0.760	
PCB-99	1.02e+07	1.56	y	34:58	1.06	378		-	-	*	
PCB-119	9.00e+05	1.56	y	35:24	1.26	28.2		-	-	*	
PCB-83	9.58e+05	1.63	y	35:33	1.00	37.6		-	-	*	Co-elute PCB 112
PCB-112	9.58e+05	1.63	y	35:33	1.00	37.6		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.13	*		1000	976	0.754	
PCB-97	5.45e+06	1.55	y	35:52	1.06	203		-	-	*	
PCB-86	*	*	n	NotFnd	0.88	*		1000	976	0.962	
PCB-125	8.15e+06	1.54	y	36:08	1.13	283		-	-	*	Co-elute PCB 87/117
PCB-87	8.15e+06	1.54	y	36:08	1.13	283		-	-	*	Co-elute PCB 125/117
PCB-117	8.15e+06	1.54	y	36:08	1.13	283		-	-	*	Co-elute PCB 125/87
PCB-111	4.31e+05	1.46	y	36:17	1.45	11.7		-	-	*	Co-elute PCB 115
PCB-115	4.31e+05	1.46	y	36:17	1.45	11.7		-	-	*	Co-elute PCB 111
PCB-85	3.32e+06	1.58	y	36:24	1.02	128		-	-	*	Co-elute PCB 116
PCB-116	3.32e+06	1.58	y	36:24	1.02	128		-	-	*	Co-elute PCB 85
PCB-120	1.55e+05	1.50	y	36:36	1.34	4.57		-	-	*	
PCB-110	2.74e+07	1.55	y	36:45	1.30	830		-	-	*	
PCB-82	1.73e+06	1.47	y	37:22	0.75	90.8		-	-	*	
PCB-124	7.80e+05	1.46	y	38:00	0.99	30.9		-	-	*	
PCB-108	1.39e+06	1.49	y	38:10	0.95	57.4		-	-	*	Co-elute PCB 107
PCB-107	1.39e+06	1.49	y	38:10	0.95	57.4		-	-	*	Co-elute PCB 108
PCB-123	3.37e+05	1.49	y	38:18	1.08	12.6		-	-	*	
13C-PCB-123	4.89e+07	1.53	y	38:17	0.97	2200					111
PCB-118	1.71e+07	1.51	y	38:28	0.91	733		-	-	*	Co-elute PCB 106
PCB-106	1.71e+07	1.51	y	38:28	0.91	733		-	-	*	Co-elute PCB 118
13C-PCB-118	5.10e+07	1.57	y	38:28	1.06	2110					106
PCB-114	4.50e+05	1.46	y	39:06	0.97	18.2		-	-	*	
13C-PCB-114	5.08e+07	1.57	y	39:05	1.04	2140					108
PCB-122	2.15e+05	1.55	y	39:13	0.95	8.93		-	-	*	
PCB-105	7.38e+06	1.49	y	39:54	0.94	303		-	-	*	
13C-PCB-105	5.15e+07	1.57	y	39:54	1.03	2180					109

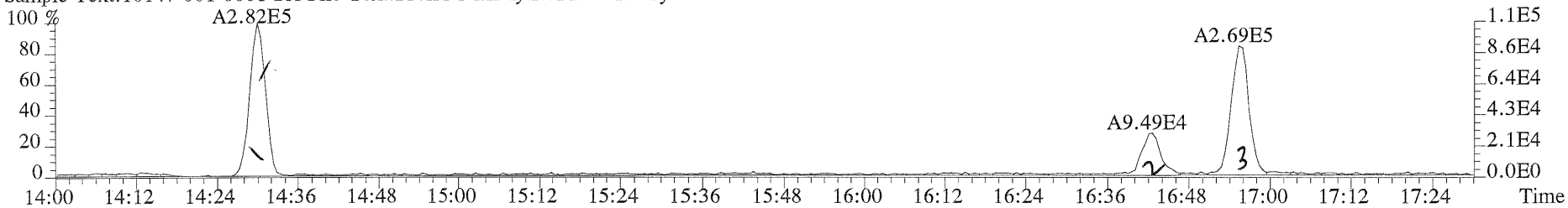
PCB-127	*	*	n	NotFnd	0.86	*		1020	880	0.953		
PCB-126	1.16e+05	1.46	y	42:01	0.98	4.78		-	-	*		
13C-PCB-126	4.92e+07	1.59	y	42:01	0.91	2350					118	
PCB-151	6.51e+06	1.24	y	37:46	0.82	301		-	-	*		
PCB-135	3.28e+06	1.23	y	37:57	0.88	141		-	-	*		
PCB-144	1.64e+06	1.28	y	38:04	0.82	75.8		-	-	*		
PCB-147	4.95e+05	1.20	y	38:12	0.86	21.7		-	-	*		
PCB-139	2.47e+07	1.25	y	38:25	0.90	1030		-	-	*	Co-elute PCB 149	
PCB-149	2.47e+07	1.25	y	38:25	0.90	1030		-	-	*	Co-elute PCB 139	
PCB-140	1.74e+05	1.24	y	38:37	0.83	7.88		-	-	*		
PCB-143	1.26e+06	1.22	y	39:01	0.82	57.7		-	-	*	Co-elute PCB 134	
PCB-134	1.26e+06	1.22	y	39:01	0.82	57.7		-	-	*	Co-elute PCB 143	
PCB-131	7.42e+05	1.23	y	39:18	0.83	33.8		-	-	*	Co-elute PCB 133	
PCB-133	7.42e+05	1.23	y	39:18	0.83	33.8		-	-	*	Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.71	*		880	690	0.873		
PCB-165	4.56e+06	1.23	y	39:41	0.97	177		-	-	*	Co-elute PCB 146	
PCB-146	4.56e+06	1.23	y	39:41	0.97	177		-	-	*	Co-elute PCB 165	
PCB-161	8.65e+06	1.21	y	39:56	0.92	354		-	-	*	Co-elute PCB 132	
PCB-132	8.65e+06	1.21	y	39:56	0.92	354		-	-	*	Co-elute PCB 161	
PCB-153	3.14e+07	1.24	y	40:02	0.95	1250		-	-	*		
PCB-168	6.55e+04	1.28	y	40:15	1.05	2.35	J	-	-	*		
PCB-141	4.58e+06	1.27	y	40:45	0.81	213		-	-	*		
PCB-137	1.02e+06	1.24	y	41:06	0.76	50.9		-	-	*		
PCB-130	1.37e+06	1.18	y	41:13	0.74	69.5		-	-	*		
PCB-138	3.26e+07	1.23	y	41:33	1.10	1120		-	-	*	Co-elute PCB 163/164	
PCB-163	3.26e+07	1.23	y	41:33	1.10	1120		-	-	*	Co-elute PCB 138/164	
PCB-164	3.26e+07	1.23	y	41:33	1.10	1120		-	-	*	Co-elute PCB 138/163	
PCB-158	3.47e+06	1.23	y	41:46	1.06	124		-	-	*	Co-elute PCB 160	
PCB-160	3.47e+06	1.23	y	41:46	1.06	124		-	-	*	Co-elute PCB 158	
PCB-129	8.27e+05	1.25	y	42:01	0.66	47.1		-	-	*		
PCB-166	9.64e+04	1.10	y	42:27	0.99	3.67	J	-	-	*		
PCB-159	4.97e+05	1.21	y	42:48	1.05	17.8		-	-	*		
PCB-128	3.99e+06	1.20	y	43:02	0.90	167		-	-	*	Co-elute PCB 162	
PCB-162	3.99e+06	1.20	y	43:02	0.90	167		-	-	*	Co-elute PCB 128	
PCB-167	1.29e+06	1.25	y	43:23	0.94	50.5		-	-	*		
13C-PCB-167	5.40e+07	1.25	y	43:23	1.12	2100					106	
PCB-156	3.07e+06	1.26	y	44:37	0.99	115		-	-	*		
13C-PCB-156	5.35e+07	1.25	y	44:35	1.07	2190					110	
PCB-157	6.23e+05	1.23	y	44:52	0.94	24.9		-	-	*		
13C-PCB-157	5.27e+07	1.25	y	44:52	1.10	2100					106	
PCB-169	*	*	n	NotFnd	0.95	*		880	690	0.568		
13C-PCB-169	5.06e+07	1.24	y	46:44	0.98	2250					113	

FAL ID: 10147-001-0001-SA Filename: 28SEP16Y Sam:8 Acquired: 28-SEP-16 21:57:08 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-SC-ENR+AC-CA-CORE ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.030

PCB-188	*	*	n	NotFnd	1.11	*		884	588	0.520	
13C-PCB-188	4.98e+07	1.06	y	39:41	1.23	1760					88.7
PCB-184	*	*	n	NotFnd	1.25	*		884	588	0.451	
PCB-179	4.86e+06	1.07	y	40:52	1.23	177		-	-	*	
PCB-176	1.58e+06	1.03	y	41:18	1.19	59.2		-	-	*	
PCB-186	*	*	n	NotFnd	1.18	*		884	588	0.478	
PCB-178	1.67e+06	1.09	y	42:19	0.85	87.3		-	-	*	
PCB-175	3.83e+05	1.17	y	42:39	0.89	19.1		-	-	*	
PCB-187	1.11e+07	1.06	y	42:48	0.95	522		-	-	*	Co-elute PCB 182
PCB-182	1.11e+07	1.06	y	42:48	0.95	522		-	-	*	Co-elute PCB 187
PCB-183	5.49e+06	1.08	y	43:07	0.95	257		-	-	*	
PCB-185	8.95e+05	1.02	y	43:44	0.86	46.5		-	-	*	
PCB-174	7.71e+06	1.07	y	44:04	0.89	386		-	-	*	
PCB-181	*	*	n	NotFnd	0.82	*		884	588	0.688	
PCB-177	4.72e+06	1.04	y	44:21	0.74	284		-	-	*	
PCB-171	2.34e+06	1.07	y	44:37	0.82	126		-	-	*	
PCB-173	1.49e+05	1.09	y	45:02	0.73	9.12		-	-	*	
PCB-172	1.13e+06	1.09	y	45:25	0.75	67.7		-	-	*	
PCB-192	*	*	n	NotFnd	0.96	*		884	588	0.584	
PCB-180	1.60e+07	1.06	y	45:46	0.98	724		-	-	*	
PCB-193	1.16e+06	1.05	y	45:56	1.05	49.1		-	-	*	
PCB-191	3.58e+05	0.97	y	46:09	0.97	16.4		-	-	*	
PCB-170	6.83e+06	1.04	y	47:04	0.64	473		-	-	*	
PCB-190	1.95e+06	1.10	y	47:13	0.88	98.3		-	-	*	
PCB-189	3.77e+05	1.03	y	48:26	1.10	17.3		-	-	*	
13C-PCB-189	3.95e+07	1.07	y	48:24	0.90	1920					96.4
PCB-202	7.95e+05	0.87	y	44:49	0.95	40.9		-	-	*	
PCB-201	5.62e+05	0.93	y	45:15	0.92	29.6		-	-	*	
PCB-204	*	*	n	NotFnd	0.92	*		544	656	0.648	
PCB-197	1.88e+05	0.98	y	45:40	0.93	9.90		-	-	*	
PCB-200	5.20e+05	0.91	y	46:24	0.88	28.8		-	-	*	
PCB-198	1.39e+05	0.90	y	47:35	0.60	11.3		-	-	*	
PCB-199	2.73e+06	0.87	y	47:41	0.55	241		-	-	*	
PCB-203	3.16e+06	0.86	y	47:56	0.64	239		-	-	*	Co-elute PCB 196
PCB-196	3.16e+06	0.86	y	47:56	0.64	239		-	-	*	Co-elute PCB 203
13C-PCB-202	4.07e+07	0.89	y	44:47	1.00	1780					89.4
13C-PCB-178	3.83e+07	1.06	y	42:19	0.84	2000					101
13C-PCB-138	4.55e+07	1.23	y	41:31	-	9.27					
PCB-195	9.58e+05	0.89	y	49:01	0.75	76.1		-	-	*	
PCB-194	2.37e+06	0.87	y	49:50	0.76	185		-	-	*	
PCB-205	1.63e+05	0.79	y	50:05	1.00	9.66		-	-	*	
13C-PCB-205	3.34e+07	0.90	y	50:04	1.27	2020					102
PCB-208	3.14e+05	1.33	y	49:08	0.93	18.9		-	-	*	
13C-PCB-208	3.56e+07	0.78	y	49:08	1.49	1830					92.0
PCB-207	1.58e+05	1.44	y	49:26	1.00	10.2		-	-	*	
PCB-206	9.41e+05	1.33	y	51:16	0.99	72.1		-	-	*	
13C-PCB-206	2.61e+07	0.80	y	51:16	1.02	1970					98.9
PCB-209	5.39e+05	1.15	y	52:27	1.06	28.6		-	-	*	
13C-PCB-209	3.55e+07	1.19	y	52:26	1.58	1730					87.1
13C-PCB-194	2.59e+07	0.92	y	49:48	-	9.82					

Analyst: _____ Date: 10/7/16

File:28SEP16Y #1-784 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-784 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
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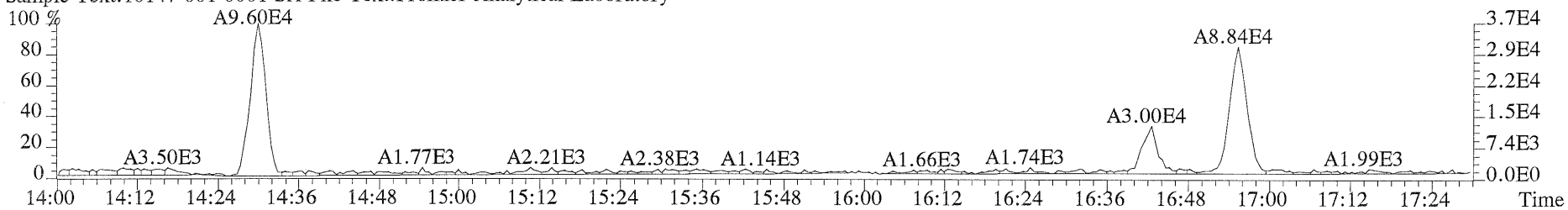

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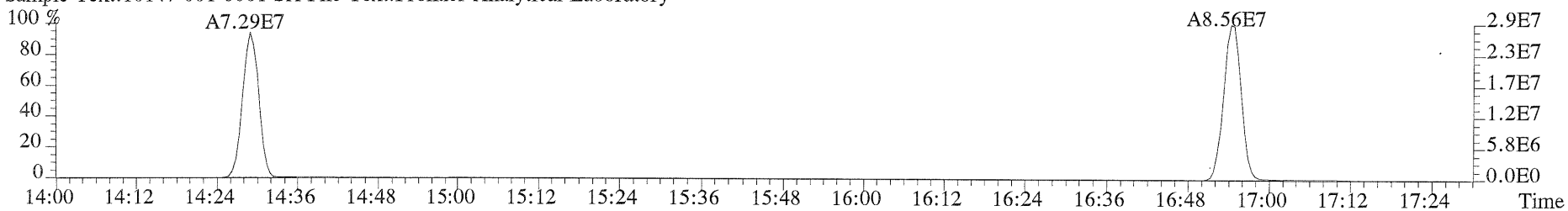
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



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202.0766 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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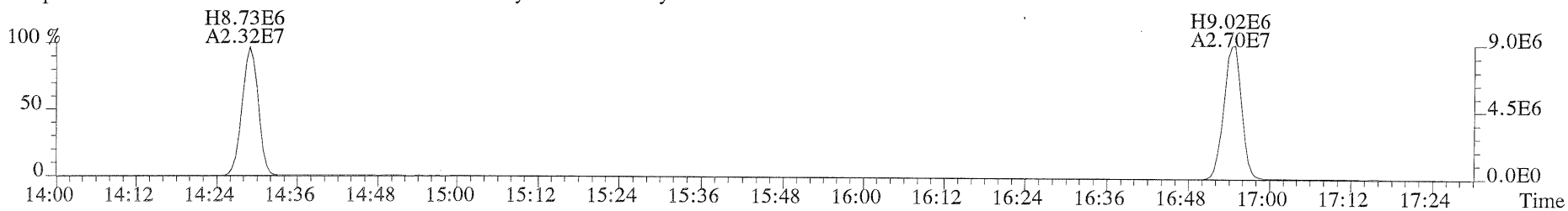
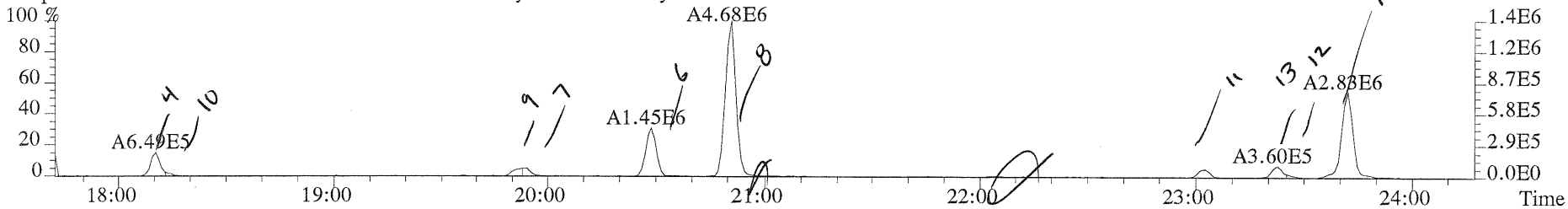


File:28SEP16Y #1-509 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-509 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
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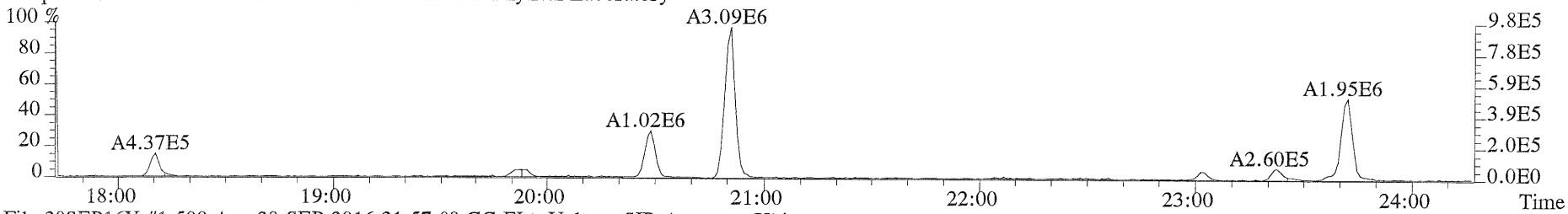
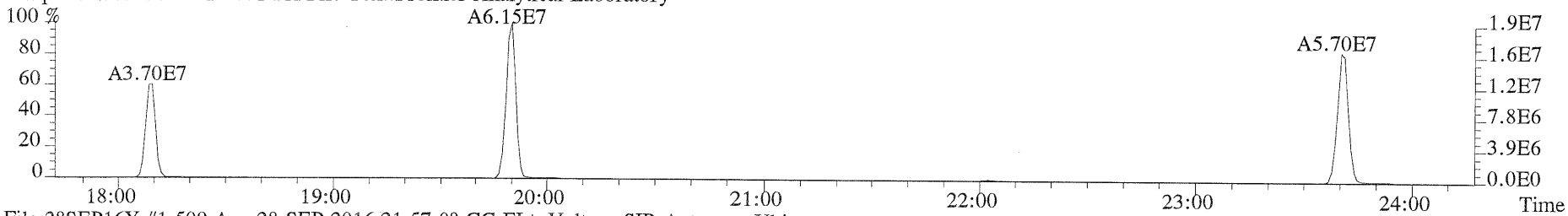
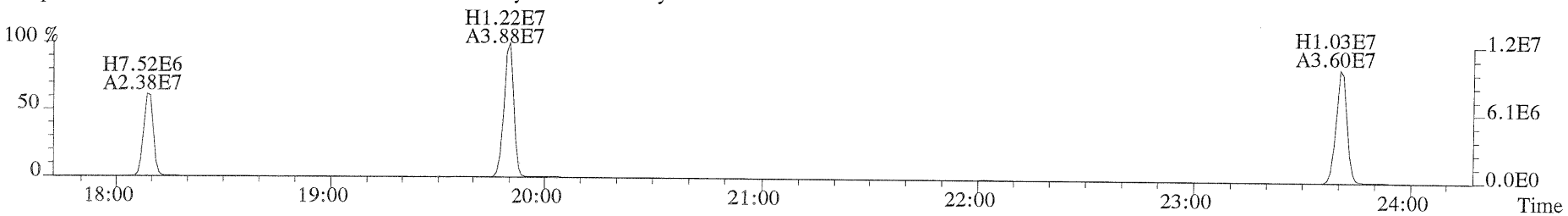
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-509 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-509 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-509 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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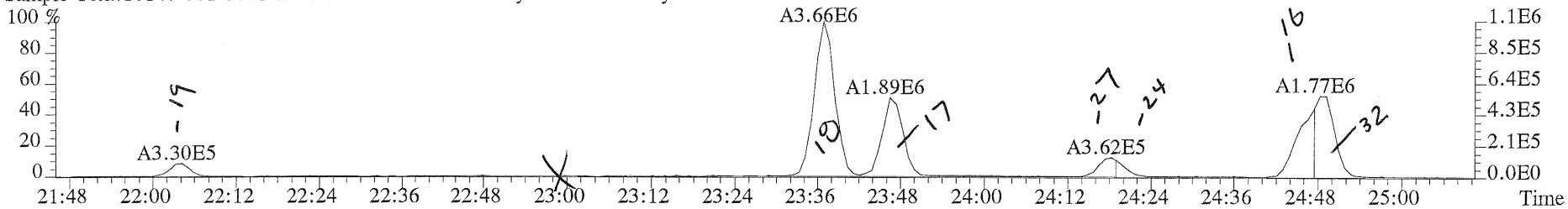
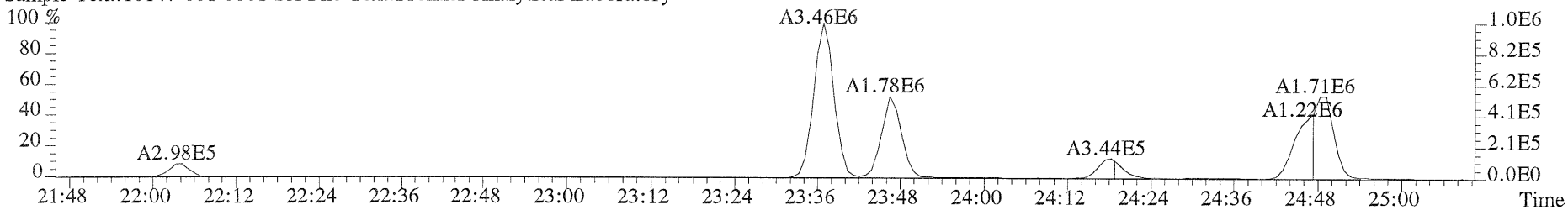
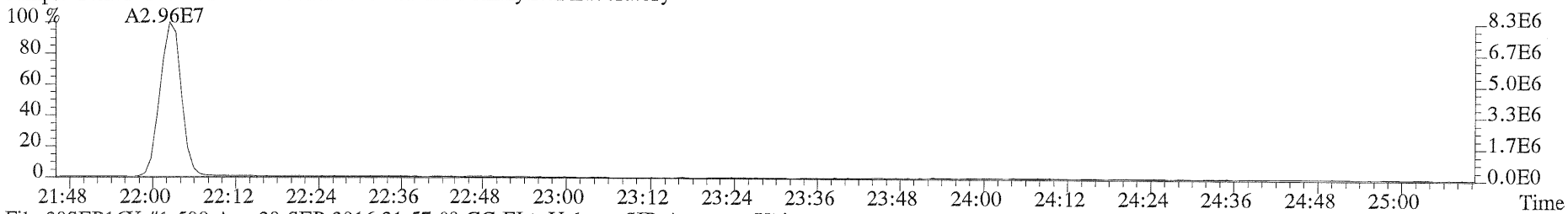


File:28SEP16Y #1-509 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-509 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



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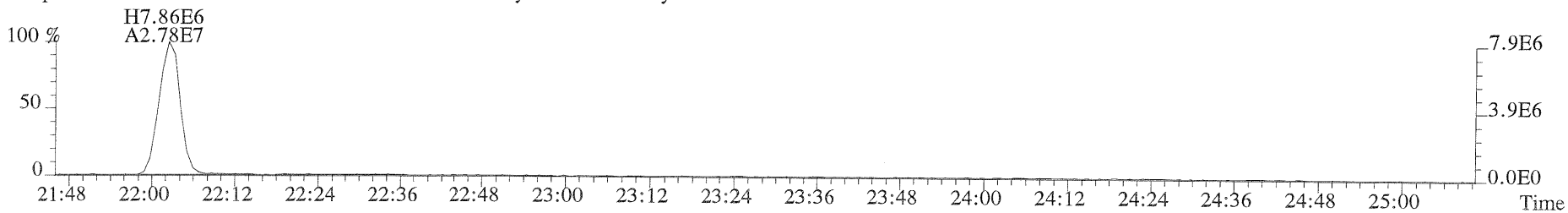
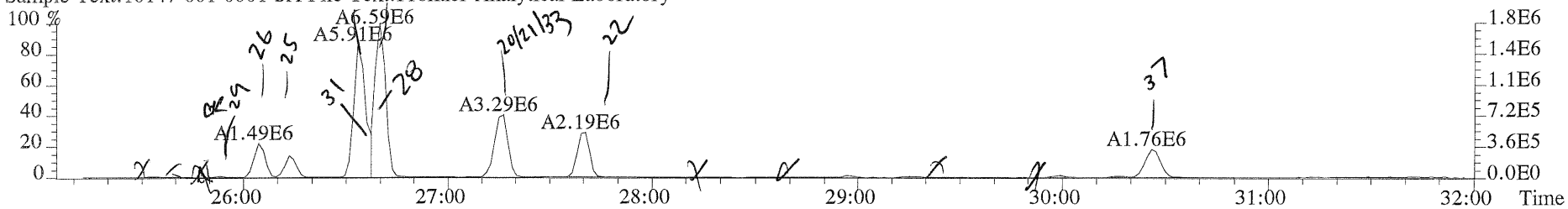
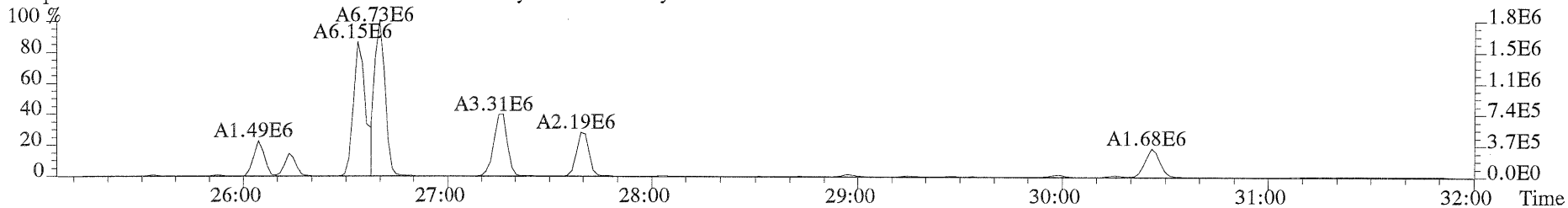
269.9986 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



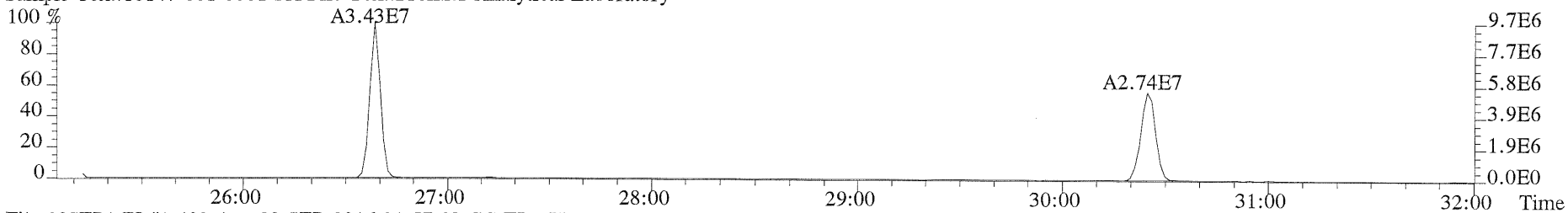
File:28SEP16Y #1-403 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



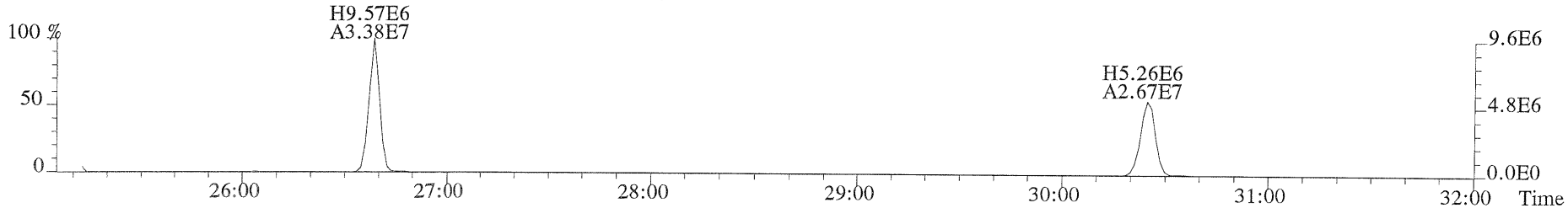
File:28SEP16Y #1-403 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



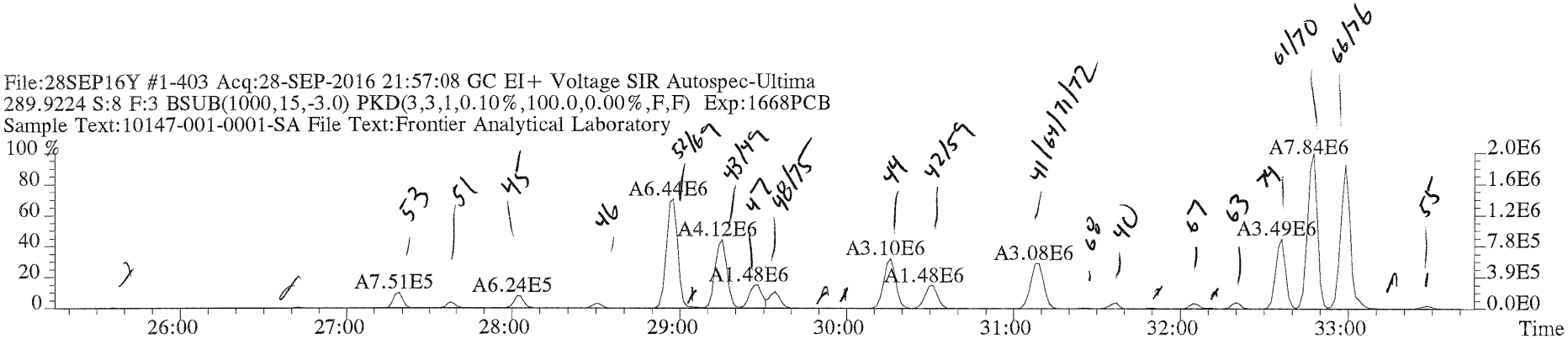
File:28SEP16Y #1-403 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



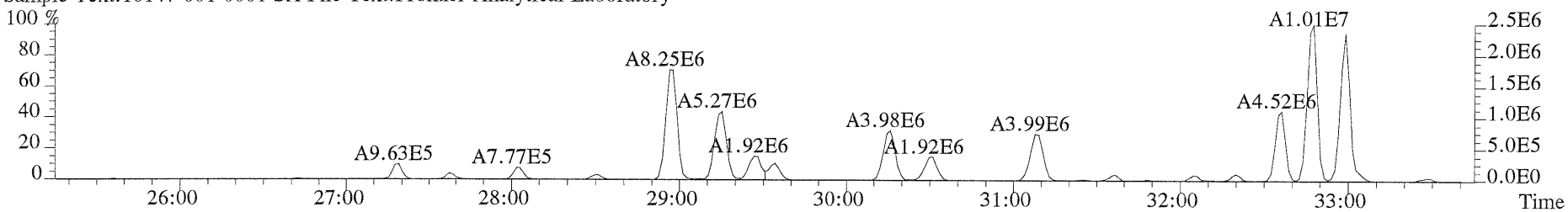
File:28SEP16Y #1-403 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



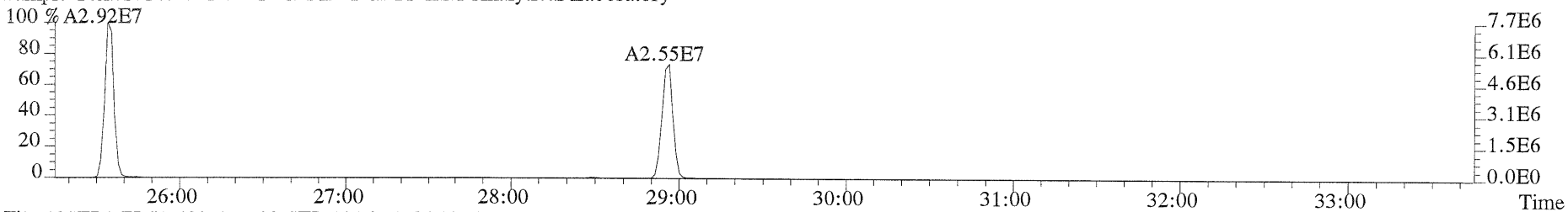
File:28SEP16Y #1-403 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



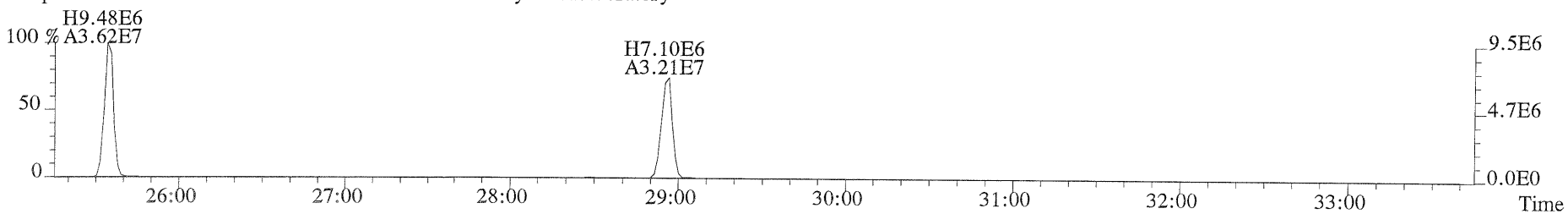
File:28SEP16Y #1-403 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



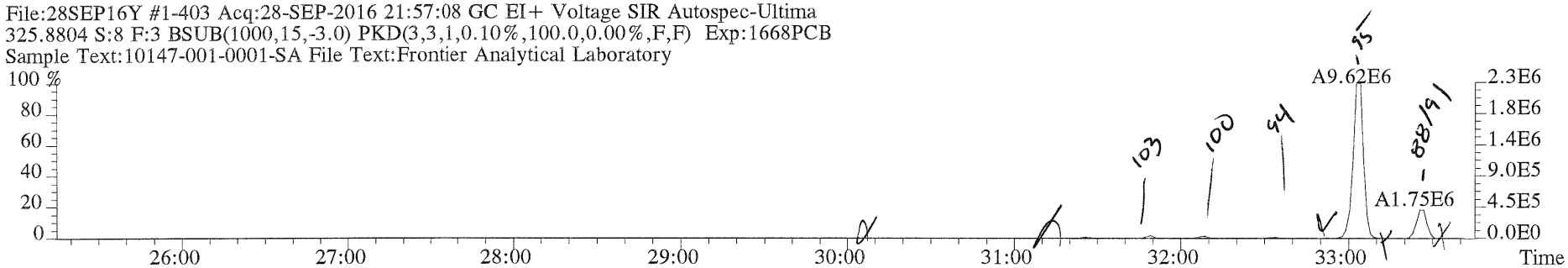
File:28SEP16Y #1-403 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



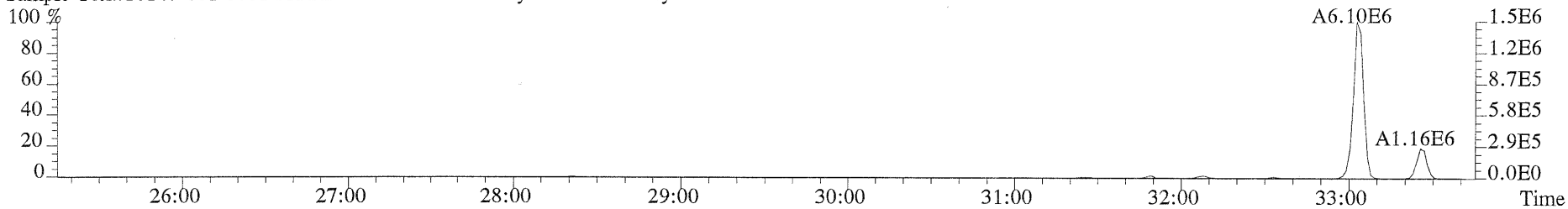
File:28SEP16Y #1-403 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



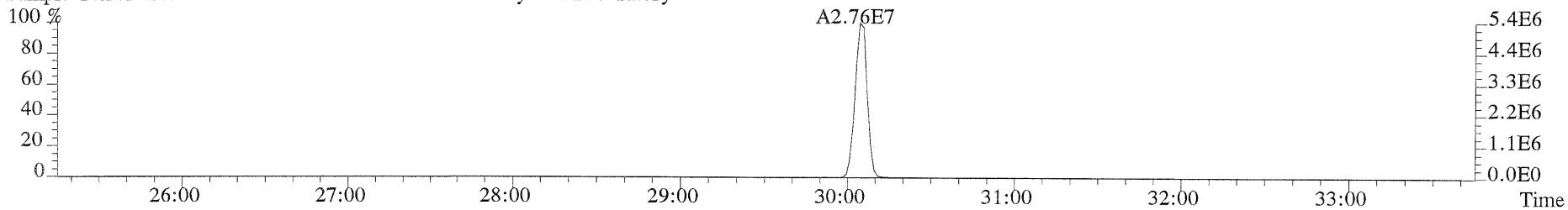
File:28SEP16Y #1-403 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



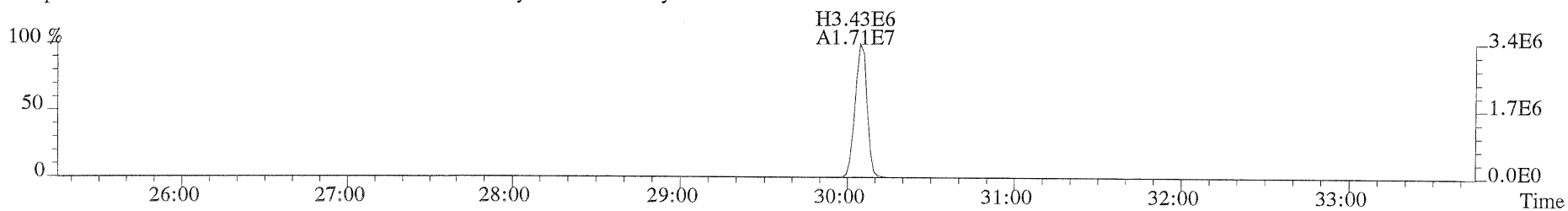
File:28SEP16Y #1-403 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



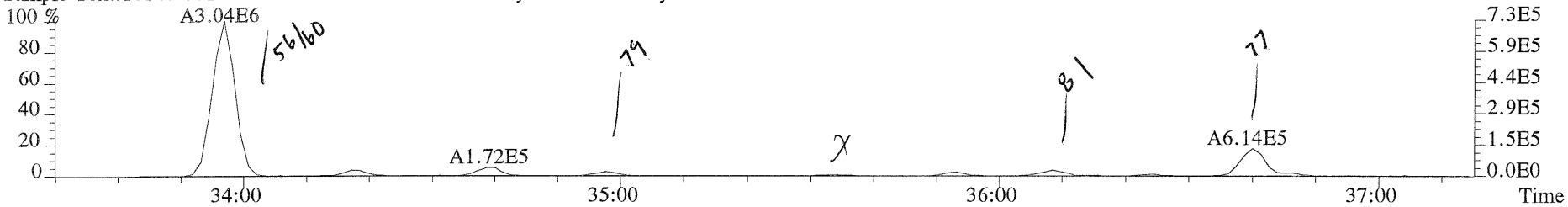
File:28SEP16Y #1-403 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



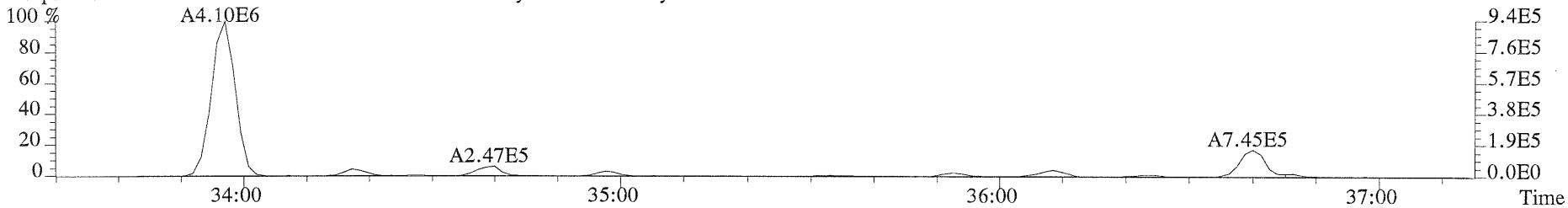
File:28SEP16Y #1-403 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



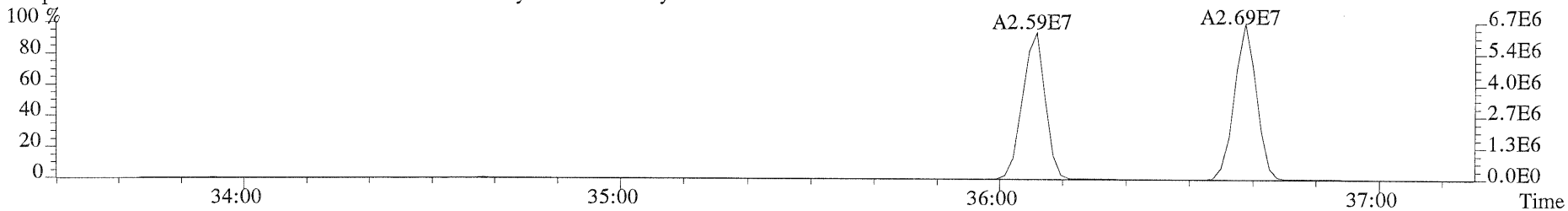
File:28SEP16Y #1-179 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



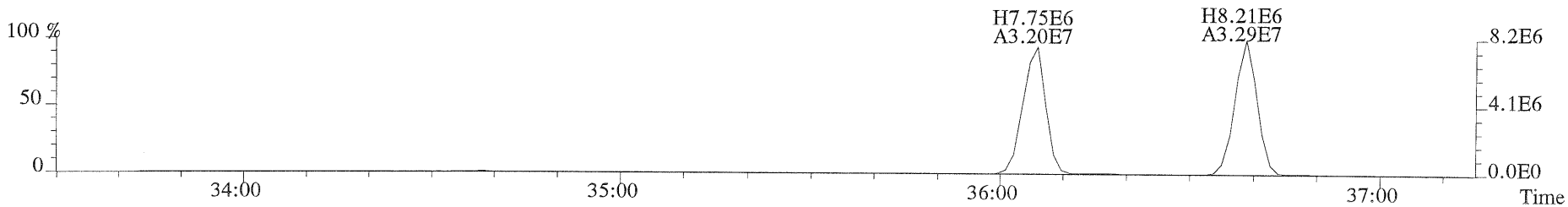
File:28SEP16Y #1-179 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



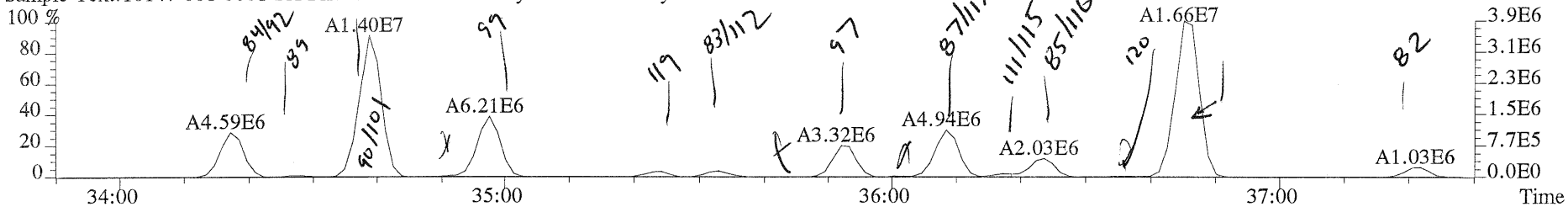
File:28SEP16Y #1-179 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



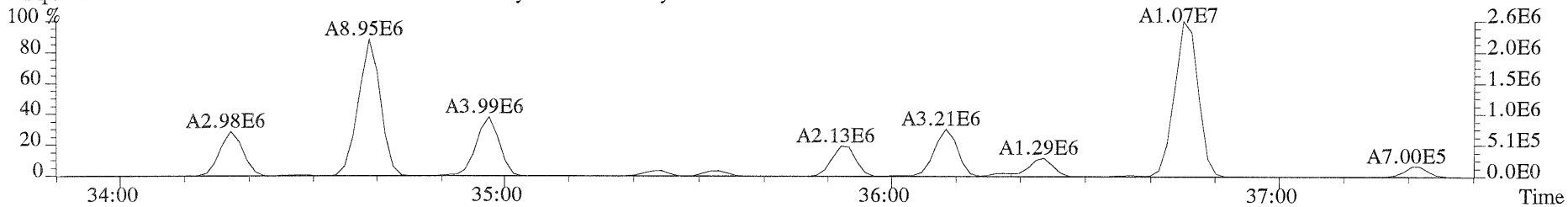
File:28SEP16Y #1-179 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



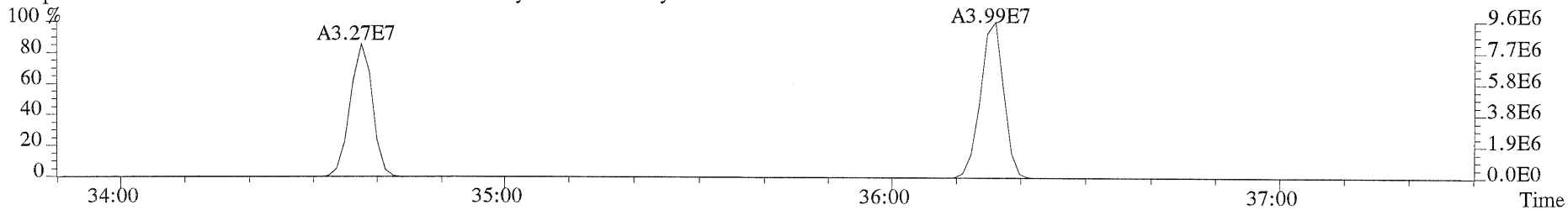
File:28SEP16Y #1-179 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



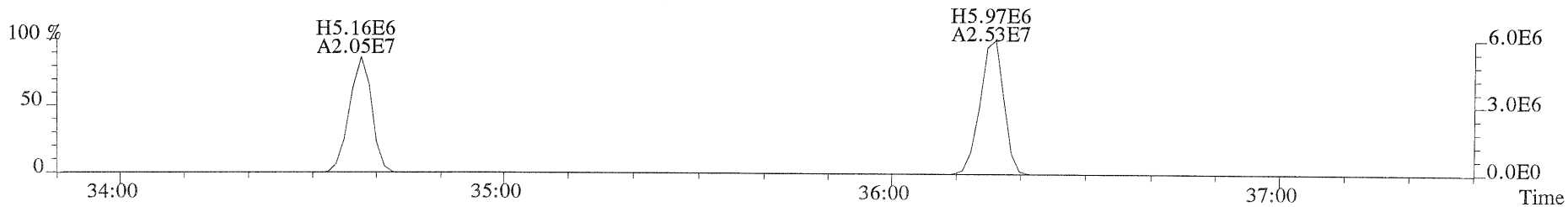
File:28SEP16Y #1-179 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



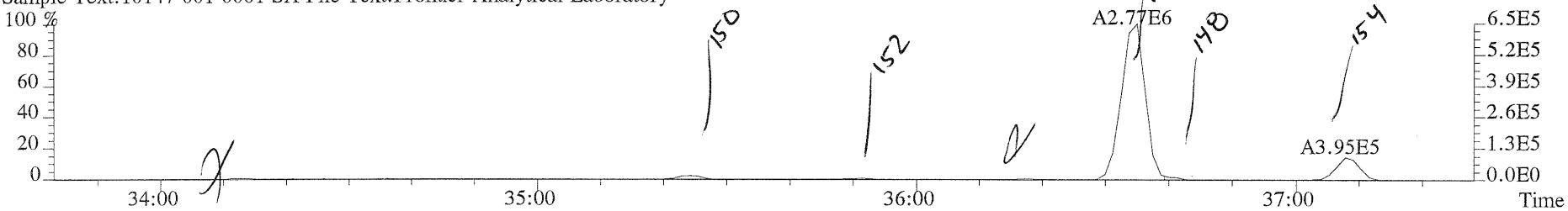
File:28SEP16Y #1-179 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



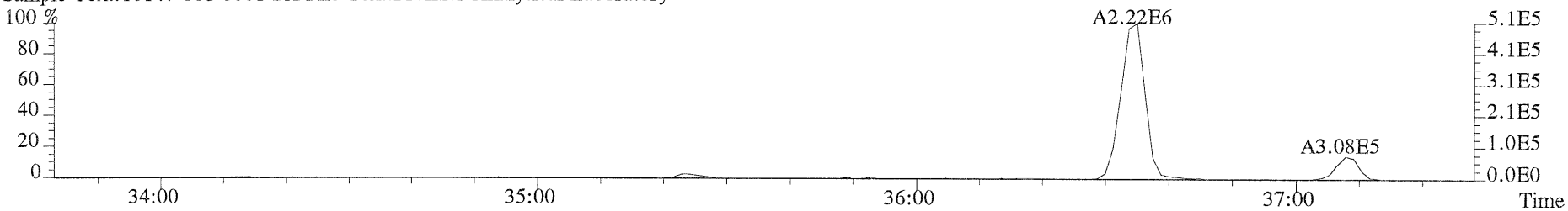
File:28SEP16Y #1-179 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



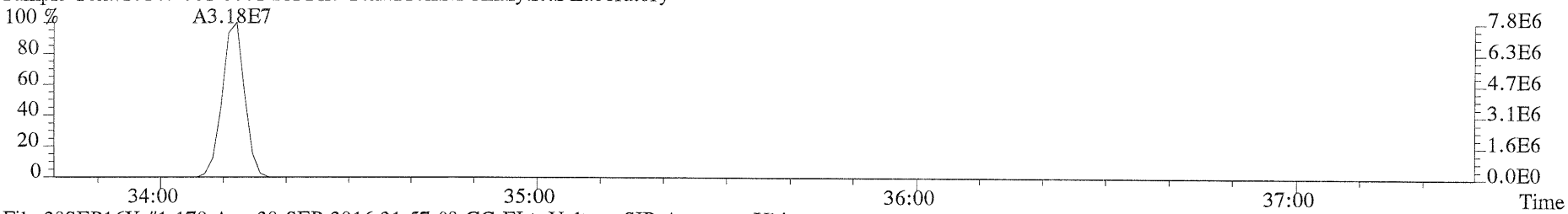
File:28SEP16Y #1-179 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



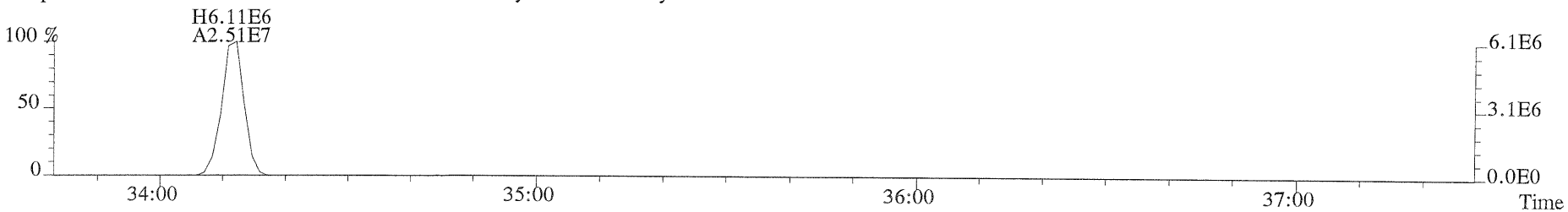
File:28SEP16Y #1-179 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



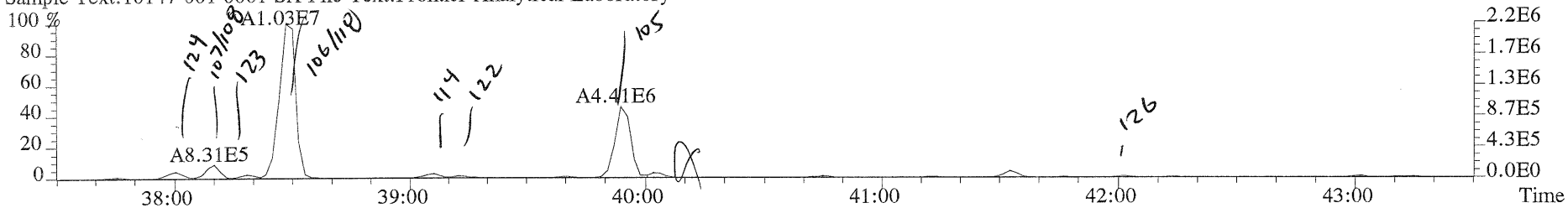
File:28SEP16Y #1-179 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



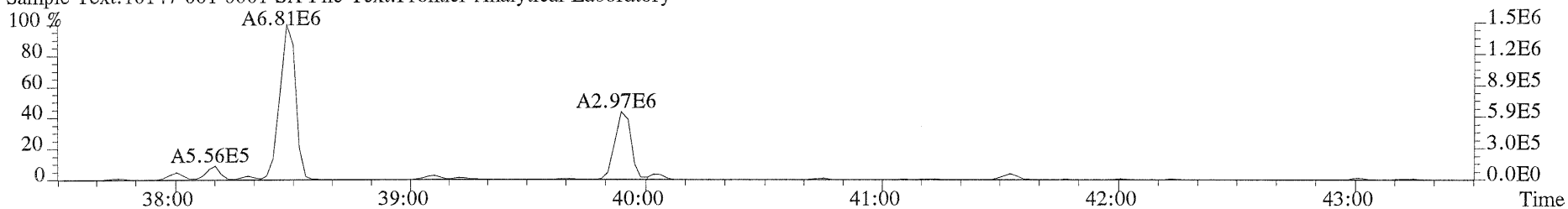
File:28SEP16Y #1-179 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



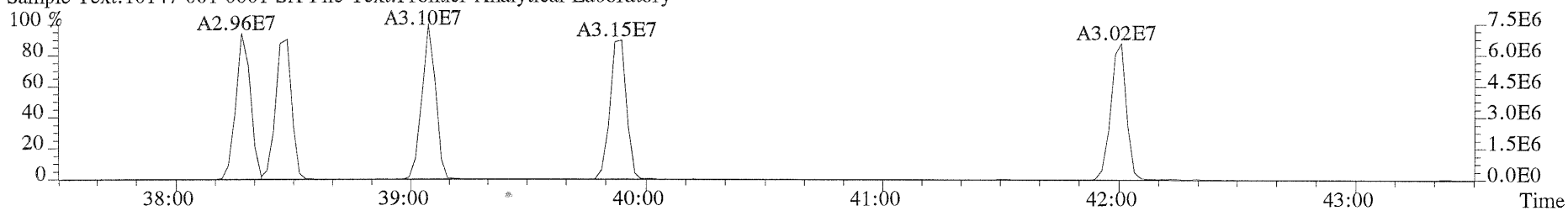
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



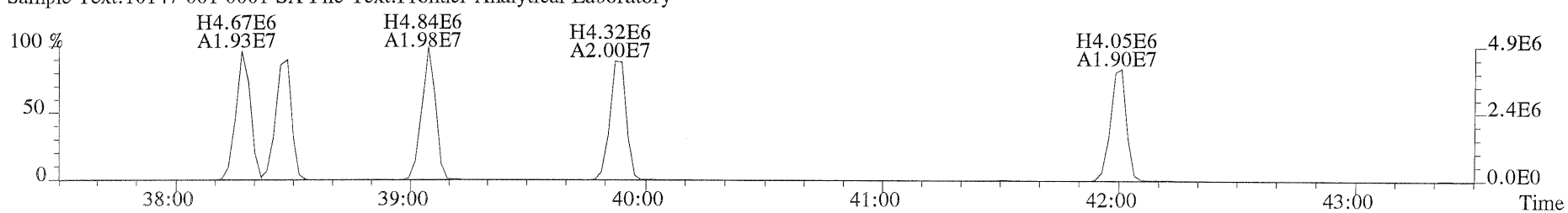
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



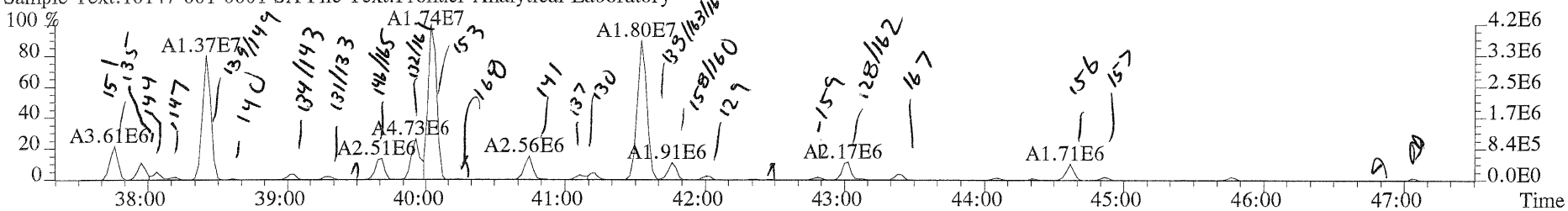
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



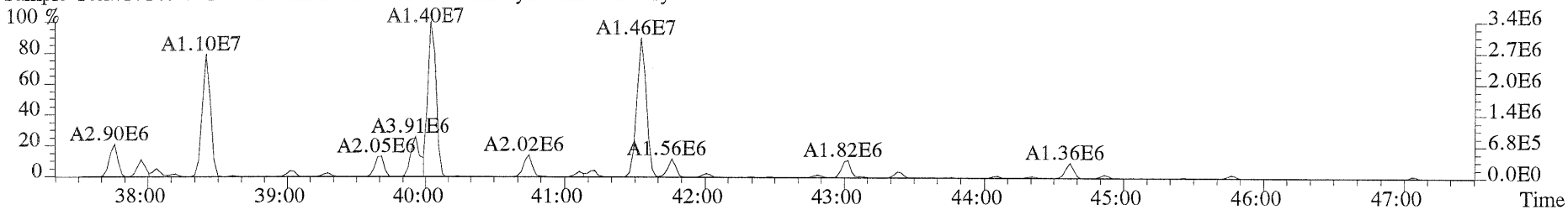
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



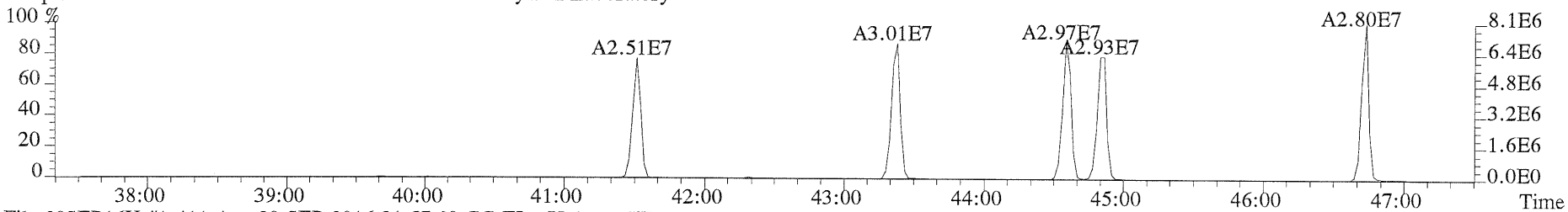
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



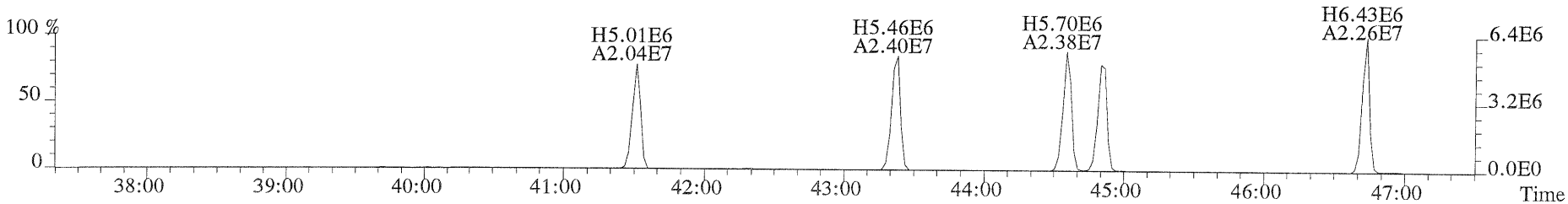
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



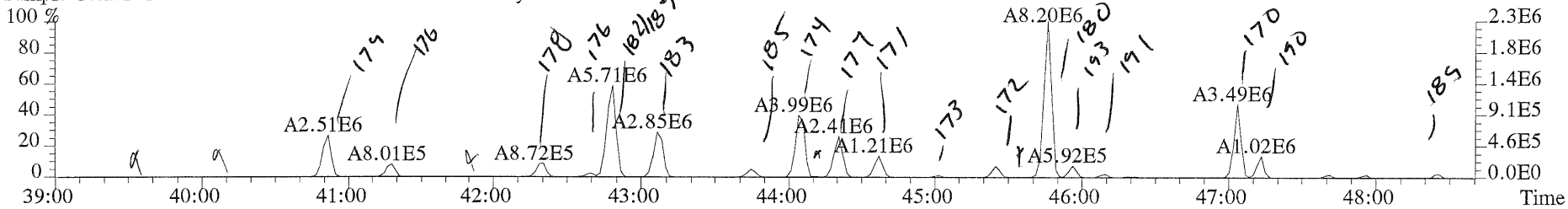
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



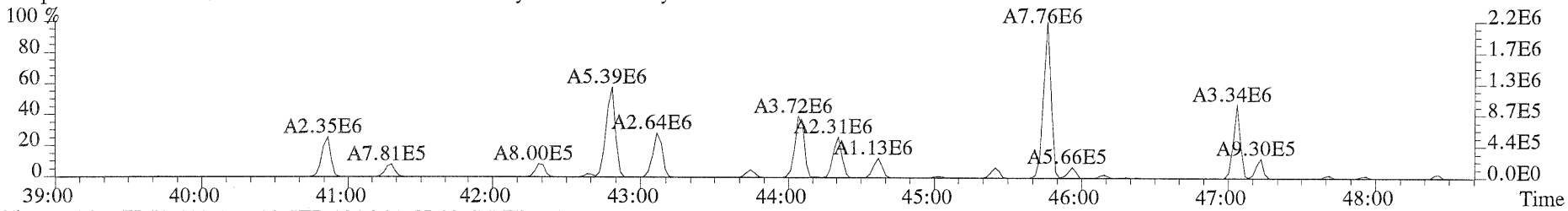
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



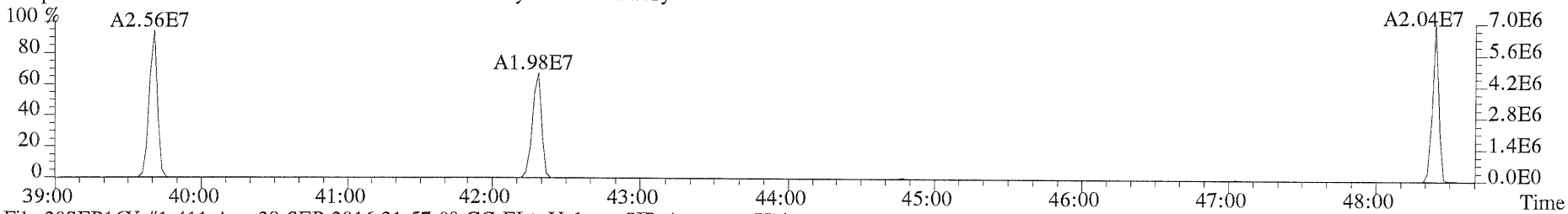
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



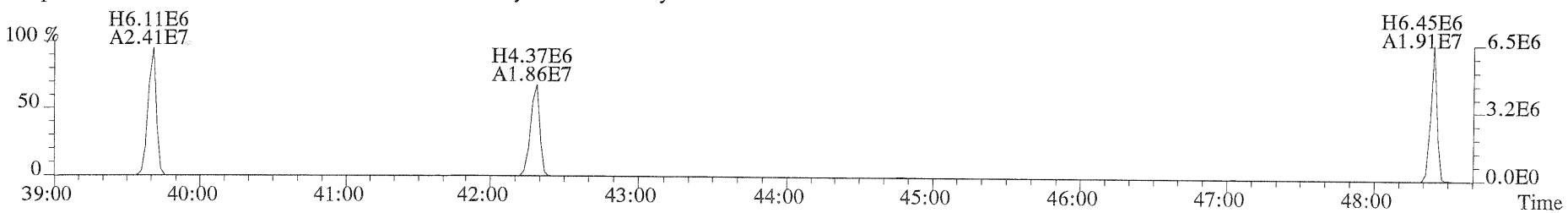
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



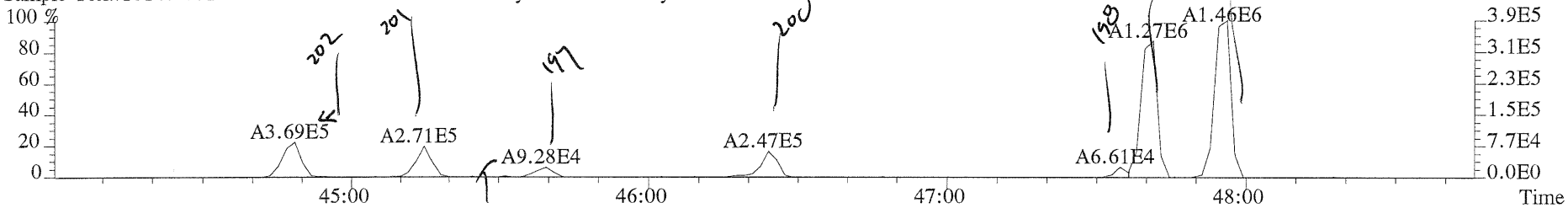
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



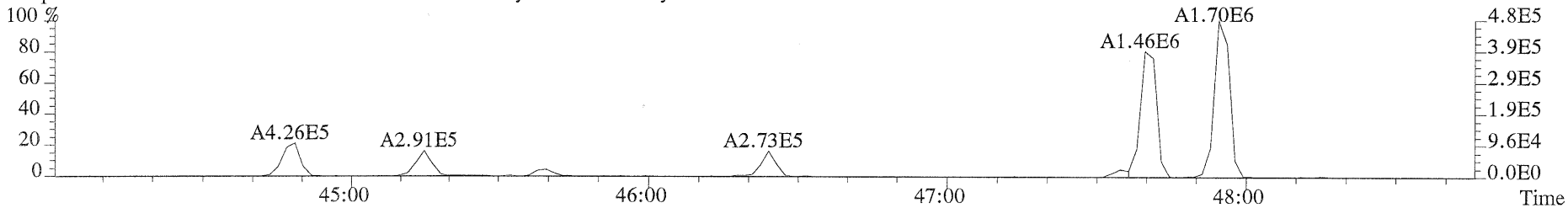
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



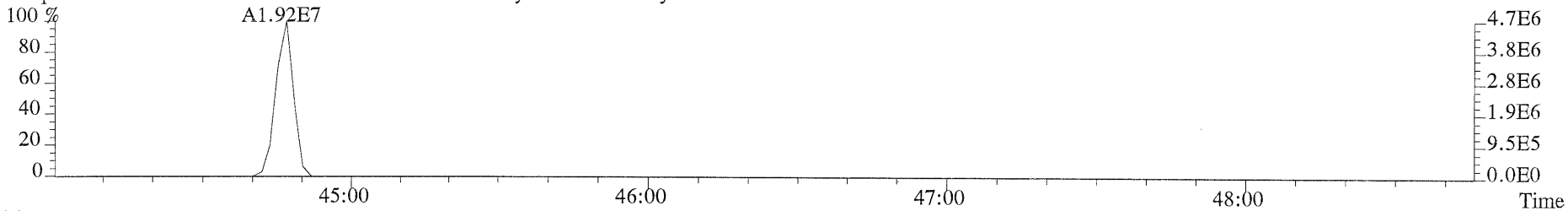
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



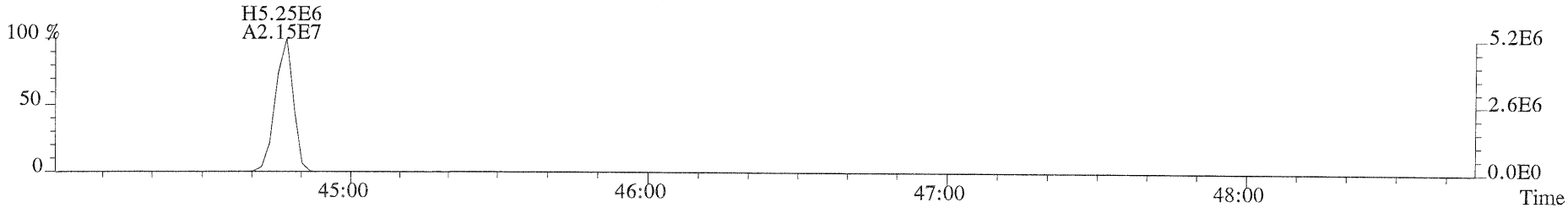
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



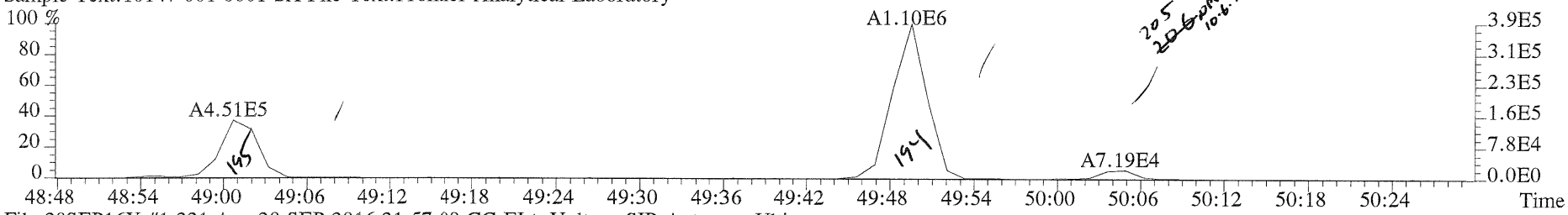
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



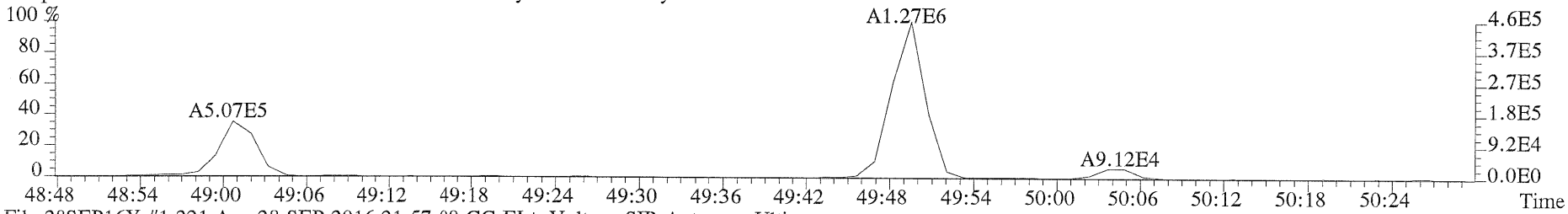
File:28SEP16Y #1-411 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



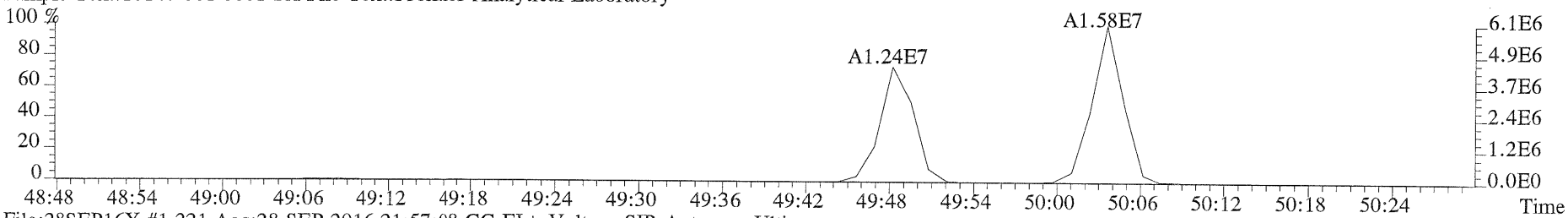
File:28SEP16Y #1-221 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



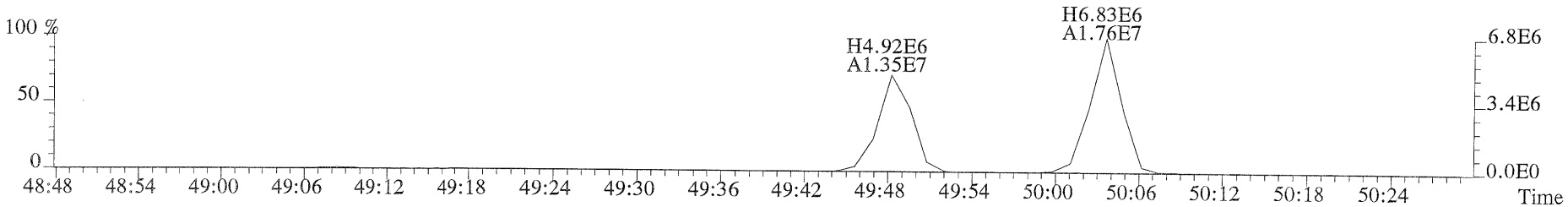
File:28SEP16Y #1-221 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



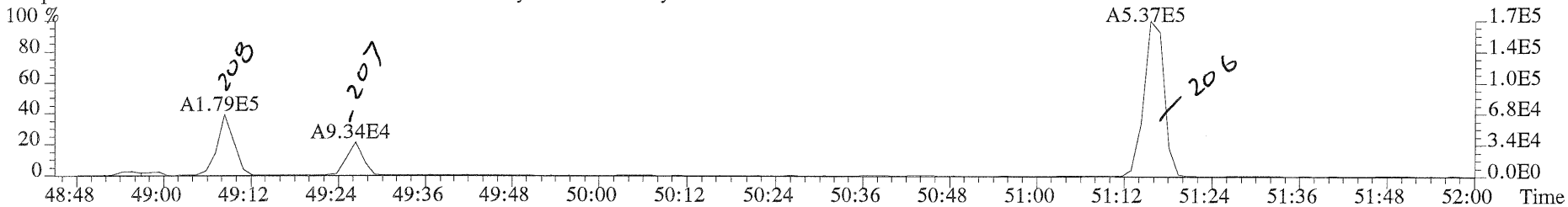
File:28SEP16Y #1-221 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



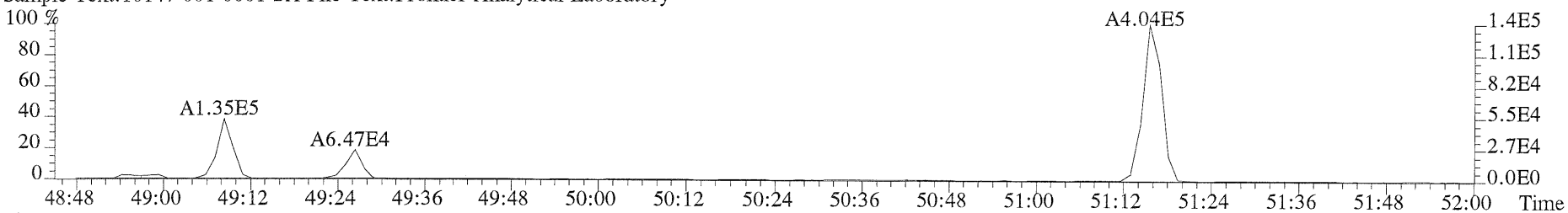
File:28SEP16Y #1-221 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



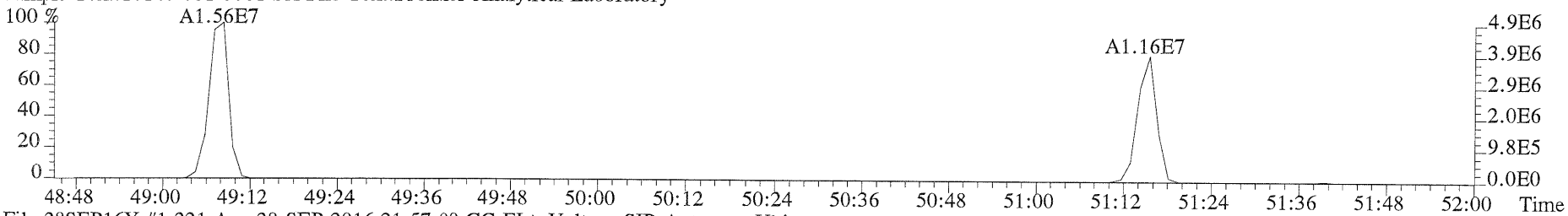
File:28SEP16Y #1-221 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



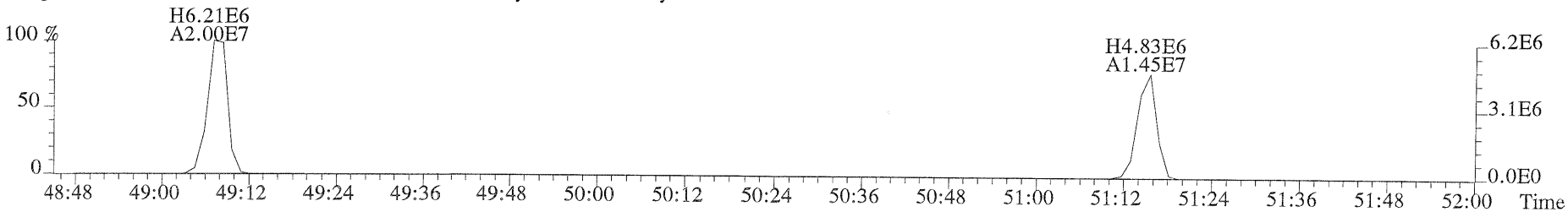
File:28SEP16Y #1-221 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



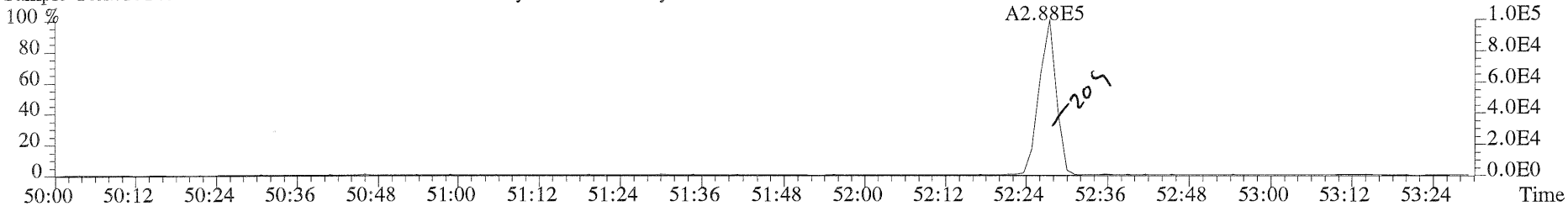
File:28SEP16Y #1-221 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



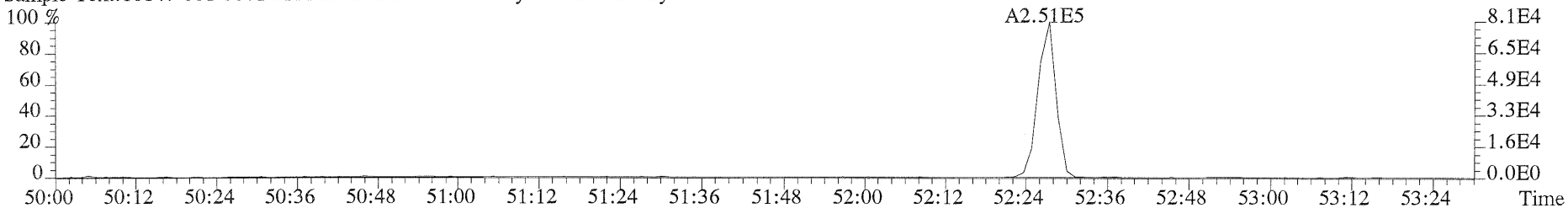
File:28SEP16Y #1-221 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



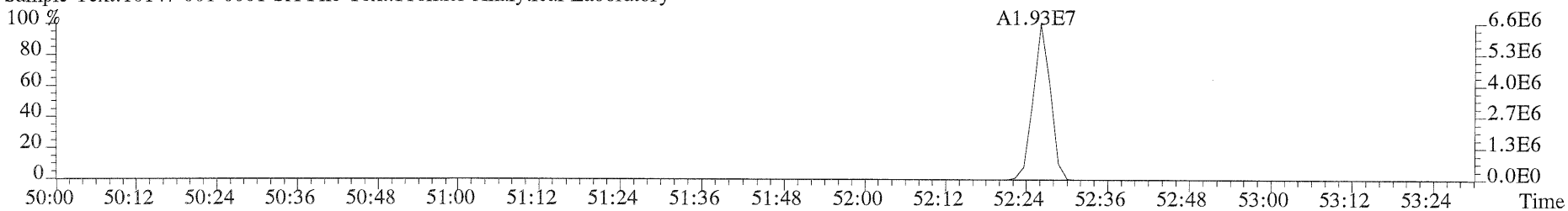
File:28SEP16Y #1-221 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



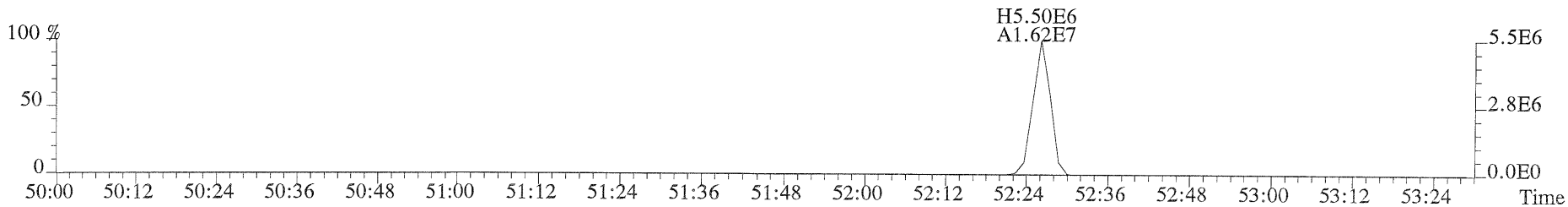
File:28SEP16Y #1-221 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 21:57:08 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10147-002-0001-SA Filename: 28SEP16Y Sam:9 Acquired: 28-SEP-16 22:53:36 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-SC-ENR+AC-CB-CORE ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.060

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	5.75e+05	3.18 y	14:31	1.00	11.3		-	-	*	
13C-PCB-1	1.00e+08	3.12 y	14:30	1.29	1550					78.6
PCB-2	1.19e+05	2.80 y	16:43	0.91	2.43	J	-	-	*	
PCB-3	4.92e+05	2.97 y	16:56	0.96	9.09		-	-	*	
13C-PCB-3	1.11e+08	3.16 y	16:55	1.26	1770					89.5
PCB-4	2.05e+06	1.43 y	18:11	0.95	71.1		-	-	*	
PCB-10	1.81e+05	1.37 y	18:14	1.14	4.03		-	-	*	
13C-PCB-4	6.00e+07	1.53 y	18:09	0.64	1870					94.6
PCB-9	4.46e+05	1.53 y	19:52	1.21	9.36		-	-	*	
PCB-7	7.59e+05	1.58 y	19:54	1.16	16.6		-	-	*	
PCB-6	3.20e+06	1.48 y	20:30	1.14	71.3		-	-	*	
PCB-8	1.51e+07	1.53 y	20:52	1.15	334		-	-	*	
PCB-5	*	* n	NotFnd	1.17	*		1380	1050	0.429	
PCB-14	*	* n	NotFnd	1.14	*		1380	1050	0.440	
PCB-11	3.88e+05	1.40 y	23:02	1.10	8.97		-	-	*	
PCB-13	9.35e+05	1.52 y	23:23	1.08	22.0		-	-	*	
PCB-12	2.55e+05	1.56 y	23:25	1.17	5.56		-	-	*	
PCB-15	7.98e+06	1.50 y	23:42	1.08	153		-	-	*	
13C-PCB-15	9.54e+07	1.59 y	23:41	1.00	1910					96.8
PCB-19	1.58e+06	1.04 y	22:04	1.04	52.2		-	-	*	
PCB-30	*	* n	NotFnd	1.45	*		1570	1660	0.649	
PCB-18	1.64e+07	1.04 y	23:38	1.01	555		-	-	*	
PCB-17	7.97e+06	1.05 y	23:47	1.08	254		-	-	*	
PCB-27	1.59e+06	1.02 y	24:18	1.55	35.3		-	-	*	
PCB-24	6.13e+05	1.06 y	24:20	1.32	15.9		-	-	*	
PCB-16	5.67e+06	1.04 y	24:47	1.15	169		-	-	*	
PCB-32	7.53e+06	1.06 y	24:49	1.34	193		-	-	*	
13C-PCB-19	5.76e+07	1.06 y	22:03	0.66	1740					88.1
13C-PCB-9	9.89e+07	1.59 y	19:50	-	11.8					
PCB-34	1.29e+05	1.04 y	25:34	0.81	6.35		-	-	*	
PCB-23	*	* n	NotFnd	0.90	*		820	770	0.949	
PCB-29	1.87e+05	0.99 y	25:53	0.90	8.36		-	-	*	
PCB-26	3.82e+06	0.96 y	26:06	0.97	158		-	-	*	
PCB-25	2.70e+06	0.97 y	26:14	1.21	89.6		-	-	*	
PCB-31	2.05e+07	0.98 y	26:35	0.97	845		-	-	*	
PCB-28	2.70e+07	0.99 y	26:41	1.08	1010		-	-	*	
PCB-20	1.42e+07	0.96 y	27:16	1.02	560		-	-	*	Co-elute PCB 21/33
PCB-21	1.42e+07	0.96 y	27:16	1.02	560		-	-	*	Co-elute PCB 20/33
PCB-33	1.42e+07	0.96 y	27:16	1.02	560		-	-	*	Co-elute PCB 20/21
PCB-22	8.48e+06	0.96 y	27:40	1.08	316		-	-	*	
PCB-36	*	* n	NotFnd	0.96	*		820	770	0.893	
PCB-39	*	* n	NotFnd	1.00	*		820	770	0.859	
PCB-38	*	* n	NotFnd	0.91	*		820	770	0.938	
PCB-35	*	* n	NotFnd	1.01	*		820	770	0.846	
PCB-37	6.00e+06	0.97 y	30:27	1.08	224		-	-	*	
13C-PCB-37	4.92e+07	1.03 y	30:26	1.03	1740					88.2

FAL ID: 10147-002-0001-SA Filename: 28SEP16Y Sam:9 Acquired: 28-SEP-16 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-SC-ENR+AC-CB-CORE ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.060

PCB-54	8.92e+04	0.87	y	25:37	1.04	2.60	J	-	-	*	
PCB-50	9.53e+04	0.81	y	26:42	0.79	3.66	J	-	-	*	
PCB-53	3.34e+06	0.80	y	27:19	0.80	127		-	-	*	
PCB-51	1.21e+06	0.79	y	27:39	0.84	44.1		-	-	*	
PCB-45	3.10e+06	0.79	y	28:03	0.72	131		-	-	*	
PCB-46	1.20e+06	0.76	y	28:31	0.69	52.8		-	-	*	
PCB-52	2.13e+07	0.78	y	28:58	0.99	653		-	-	*	Co-elute PCB 69
PCB-69	2.13e+07	0.78	y	28:58	0.99	653		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.07	*		892	1060	0.493	
PCB-43	1.49e+07	0.78	y	29:15	0.79	577		-	-	*	Co-elute PCB 49
PCB-49	1.49e+07	0.78	y	29:15	0.79	577		-	-	*	Co-elute PCB 43
PCB-47	5.86e+06	0.78	y	29:28	1.07	167		-	-	*	
PCB-48	4.48e+06	0.80	y	29:35	0.94	145		-	-	*	Co-elute PCB 75
PCB-75	4.48e+06	0.80	y	29:35	0.94	145		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*		892	1060	0.533	
PCB-62	*	*	n	NotFnd	0.99	*		892	1060	0.532	
PCB-44	1.19e+07	0.78	y	30:16	0.73	494		-	-	*	
PCB-42	5.90e+06	0.79	y	30:31	0.98	182		-	-	*	Co-elute PCB 59
PCB-59	5.90e+06	0.79	y	30:31	0.98	182		-	-	*	Co-elute PCB 42
PCB-72	1.30e+07	0.78	y	31:09	1.09	363		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.30e+07	0.78	y	31:09	1.09	363		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.30e+07	0.78	y	31:09	1.09	363		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.30e+07	0.78	y	31:09	1.09	363		-	-	*	Co-elute PCB 72/41/71
PCB-68	8.22e+04	0.74	y	31:25	1.12	2.22	J	-	-	*	
PCB-40	1.57e+06	0.78	y	31:37	0.63	75.1		-	-	*	
PCB-57	1.37e+05	0.78	y	31:49	1.08	3.85	J	-	-	*	
PCB-67	1.09e+06	0.80	y	32:06	1.07	30.7		-	-	*	
PCB-58	8.12e+04	0.83	y	32:11	1.08	2.28	J	-	-	*	
PCB-63	1.18e+06	0.79	y	32:20	1.08	33.3		-	-	*	
PCB-74	1.37e+07	0.77	y	32:36	1.18	351		-	-	*	
PCB-61	2.91e+07	0.78	y	32:48	1.15	767		-	-	*	Co-elute PCB 70
PCB-70	2.91e+07	0.78	y	32:48	1.15	767		-	-	*	Co-elute PCB 61
PCB-76	2.75e+07	0.77	y	33:00	1.13	735		-	-	*	Co-elute PCB 66
PCB-66	2.75e+07	0.77	y	33:00	1.13	735		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.27	*		892	1060	0.416	
PCB-55	6.03e+05	0.80	y	33:29	1.13	16.2		-	-	*	
13C-PCB-54	6.51e+07	0.81	y	25:35	1.09	2170					110
PCB-104	*	*	n	NotFnd	1.13	*		620	732	0.765	
PCB-96	1.50e+05	1.73	y	31:25	1.06	7.03		-	-	*	
PCB-103	2.59e+05	1.41	y	31:49	0.88	14.6		-	-	*	
PCB-100	1.74e+05	1.46	y	32:08	0.87	9.92		-	-	*	
PCB-94	1.33e+05	1.40	y	32:34	0.74	8.83		-	-	*	
PCB-98	*	*	n	NotFnd	1.06	*		620	732	0.817	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	1.06	*		620	732	0.817	Co-elute PCB 98
PCB-95	1.79e+07	1.57	y	33:04	0.63	1390		-	-	*	
PCB-93	*	*	n	NotFnd	0.63	*		620	732	1.38	
PCB-88	3.46e+06	1.57	y	33:27	0.83	207		-	-	*	Co-elute PCB 91
PCB-91	3.46e+06	1.57	y	33:27	0.83	207		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.99	*		620	732	0.874	
13C-PCB-104	3.99e+07	1.62	y	30:06	0.98	1480					74.9
13C-PCB-28	6.86e+07	1.00	y	26:40	1.01	2460					125
13C-PCB-52	5.43e+07	0.79	y	28:56	-	9.04					

PCB-56	1.27e+07	0.73	y	33:57	0.89	543		-	-	*	Co-elute PCB 60
PCB-60	1.27e+07	0.73	y	33:57	0.89	543		-	-	*	Co-elute PCB 56
PCB-79	1.39e+05	0.73	y	34:59	1.00	5.27		-	-	*	
PCB-78	4.63e+04	0.77	y	35:34	0.97	1.81	J	-	-	*	
PCB-81	2.81e+05	0.67	y	36:10	1.07	9.98		-	-	*	
13C-PCB-81	5.19e+07	0.81	y	36:06	0.96	2040					103
PCB-77	1.87e+06	0.75	y	36:41	1.01	70.2		-	-	*	
13C-PCB-77	5.21e+07	0.83	y	36:40	1.02	1930					97.4
PCB-155	*	*	n	NotFnd	1.05	*		940	928	0.629	
PCB-150	9.85e+04	1.32	y	35:24	0.96	3.60	J	-	-	*	
PCB-152	*	*	n	NotFnd	0.94	*		940	928	0.703	
PCB-145	*	*	n	NotFnd	0.94	*		940	928	0.707	
PCB-136	4.98e+06	1.26	y	36:35	0.94	185		-	-	*	
PCB-148	*	*	n	NotFnd	0.68	*		940	928	0.977	
PCB-154	6.12e+05	1.27	y	37:09	0.80	26.9		-	-	*	
13C-PCB-155	5.63e+07	1.28	y	34:12	1.15	1850					93.4
13C-PCB-111	6.42e+07	1.57	y	36:16	1.14	2120					107
13C-PCB-101	5.23e+07	1.60	y	34:39	-	9.10					
PCB-84	9.00e+06	1.54	y	34:18	0.87	413		-	-	*	Co-elute PCB 92
PCB-92	9.00e+06	1.54	y	34:18	0.87	413		-	-	*	Co-elute PCB 84
PCB-89	3.04e+05	1.61	y	34:28	0.86	14.0		-	-	*	
PCB-90	2.54e+07	1.56	y	34:40	0.98	1030		-	-	*	Co-elute PCB 101
PCB-101	2.54e+07	1.56	y	34:40	0.98	1030		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.12	*		1010	1020	0.772	
PCB-99	1.16e+07	1.56	y	34:58	1.06	433		-	-	*	
PCB-119	8.79e+05	1.48	y	35:24	1.26	27.8		-	-	*	
PCB-83	1.18e+06	1.55	y	35:33	1.00	46.9		-	-	*	Co-elute PCB 112
PCB-112	1.18e+06	1.55	y	35:33	1.00	46.9		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.13	*		1010	1020	0.766	
PCB-97	6.59e+06	1.52	y	35:53	1.06	248		-	-	*	
PCB-86	*	*	n	NotFnd	0.88	*		1010	1020	0.978	
PCB-125	9.81e+06	1.55	y	36:10	1.13	344		-	-	*	Co-elute PCB 87/117
PCB-87	9.81e+06	1.55	y	36:10	1.13	344		-	-	*	Co-elute PCB 125/117
PCB-117	9.81e+06	1.55	y	36:10	1.13	344		-	-	*	Co-elute PCB 125/87
PCB-111	4.05e+05	1.57	y	36:17	1.45	11.1		-	-	*	Co-elute PCB 115
PCB-115	4.05e+05	1.57	y	36:17	1.45	11.1		-	-	*	Co-elute PCB 111
PCB-85	4.09e+06	1.49	y	36:24	1.02	160		-	-	*	Co-elute PCB 116
PCB-116	4.09e+06	1.49	y	36:24	1.02	160		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.34	*		1010	1020	0.646	
PCB-110	3.09e+07	1.55	y	36:46	1.30	947		-	-	*	
PCB-82	2.29e+06	1.59	y	37:22	0.75	122		-	-	*	
PCB-124	9.48e+05	1.48	y	38:02	0.99	38.0		-	-	*	
PCB-108	1.60e+06	1.50	y	38:10	0.95	67.1		-	-	*	Co-elute PCB 107
PCB-107	1.60e+06	1.50	y	38:10	0.95	67.1		-	-	*	Co-elute PCB 108
PCB-123	3.94e+05	1.56	y	38:20	1.08	14.9		-	-	*	
13C-PCB-123	4.81e+07	1.53	y	38:18	0.97	2220					113
PCB-118	1.77e+07	1.49	y	38:30	0.91	792		-	-	*	Co-elute PCB 106
PCB-106	1.77e+07	1.49	y	38:30	0.91	792		-	-	*	Co-elute PCB 118
13C-PCB-118	4.86e+07	1.54	y	38:28	1.06	2070					105
PCB-114	5.68e+05	1.48	y	39:06	0.97	23.0		-	-	*	
13C-PCB-114	5.03e+07	1.54	y	39:04	1.04	2180					110
PCB-122	2.76e+05	1.43	y	39:13	0.95	11.6		-	-	*	
PCB-105	8.75e+06	1.52	y	39:55	0.94	354		-	-	*	
13C-PCB-105	5.19e+07	1.59	y	39:54	1.03	2260					114

FAL ID: 10147-002-0001-SA Filename: 28SEP16Y Sam:9 Acquired: 28-SEP-16 22:53:36 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-SC-ENR+AC-CB-CORE ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.060

PCB-127	*	*	n	NotFnd	0.86	*		844	1040	0.937		
PCB-126	1.35e+05	1.39	y	42:02	0.98	5.65		-	-	*		
13C-PCB-126	4.82e+07	1.56	y	42:01	0.91	2370					120	
PCB-151	6.51e+06	1.25	y	37:45	0.82	299		-	-	*		
PCB-135	3.45e+06	1.26	y	37:59	0.88	147		-	-	*		
PCB-144	1.36e+06	1.27	y	38:05	0.82	62.4		-	-	*		
PCB-147	4.97e+05	1.23	y	38:12	0.86	21.6		-	-	*		
PCB-139	2.41e+07	1.23	y	38:27	0.90	999		-	-	*	Co-elute PCB 149	
PCB-149	2.41e+07	1.23	y	38:27	0.90	999		-	-	*	Co-elute PCB 139	
PCB-140	1.67e+05	1.24	y	38:38	0.83	7.52		-	-	*		
PCB-143	1.30e+06	1.27	y	39:03	0.82	59.2		-	-	*	Co-elute PCB 134	
PCB-134	1.30e+06	1.27	y	39:03	0.82	59.2		-	-	*	Co-elute PCB 143	
PCB-131	7.03e+05	1.24	y	39:18	0.83	31.8		-	-	*	Co-elute PCB 133	
PCB-133	7.03e+05	1.24	y	39:18	0.83	31.8		-	-	*	Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.71	*		880	860	0.911		
PCB-165	4.36e+06	1.25	y	39:41	0.97	168		-	-	*	Co-elute PCB 146	
PCB-146	4.36e+06	1.25	y	39:41	0.97	168		-	-	*	Co-elute PCB 165	
PCB-161	8.18e+06	1.25	y	39:55	0.92	332		-	-	*	Co-elute PCB 132	
PCB-132	8.18e+06	1.25	y	39:55	0.92	332		-	-	*	Co-elute PCB 161	
PCB-153	3.08e+07	1.27	y	40:04	0.95	1220		-	-	*		
PCB-168	5.31e+04	1.28	y	40:15	1.05	1.89	J	-	-	*		
PCB-141	4.78e+06	1.27	y	40:45	0.81	220		-	-	*		
PCB-137	1.02e+06	1.23	y	41:08	0.76	50.7		-	-	*		
PCB-130	1.42e+06	1.25	y	41:13	0.74	71.2		-	-	*		
PCB-138	3.18e+07	1.24	y	41:33	1.10	1080		-	-	*	Co-elute PCB 163/164	
PCB-163	3.18e+07	1.24	y	41:33	1.10	1080		-	-	*	Co-elute PCB 138/164	
PCB-164	3.18e+07	1.24	y	41:33	1.10	1080		-	-	*	Co-elute PCB 138/163	
PCB-158	3.34e+06	1.21	y	41:47	1.06	118		-	-	*	Co-elute PCB 160	
PCB-160	3.34e+06	1.21	y	41:47	1.06	118		-	-	*	Co-elute PCB 158	
PCB-129	8.79e+05	1.25	y	42:02	0.66	49.6		-	-	*		
PCB-166	1.20e+05	1.27	y	42:29	0.99	4.52		-	-	*		
PCB-159	4.75e+05	1.13	y	42:48	1.05	16.9		-	-	*		
PCB-128	4.10e+06	1.22	y	43:01	0.90	170		-	-	*	Co-elute PCB 162	
PCB-162	4.10e+06	1.22	y	43:01	0.90	170		-	-	*	Co-elute PCB 128	
PCB-167	1.34e+06	1.22	y	43:25	0.94	51.2		-	-	*		
13C-PCB-167	5.48e+07	1.24	y	43:23	1.12	2190					111	
PCB-156	3.17e+06	1.23	y	44:37	0.99	118		-	-	*		
13C-PCB-156	5.36e+07	1.26	y	44:37	1.07	2260					114	
PCB-157	6.40e+05	1.25	y	44:53	0.94	25.5		-	-	*		
13C-PCB-157	5.26e+07	1.23	y	44:52	1.10	2160					109	
PCB-169	*	*	n	NotFnd	0.95	*		880	860	0.584		
13C-PCB-169	5.03e+07	1.23	y	46:44	0.98	2310					117	

FAL ID: 10147-002-0001-SA Filename: 28SEP16Y Sam:9 Acquired: 28-SEP-16 22:53:36 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-SC-ENR+AC-CB-CORE ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.060

PCB-188	*	*	n	NotFnd	1.11	*	804	644	0.563		
13C-PCB-188	4.68e+07	1.06	y	39:41	1.23	1710				86.4	
PCB-184	*	*	n	NotFnd	1.25	*	804	644	0.463		
PCB-179	4.55e+06	1.06	y	40:51	1.23	167	-	-	*		
PCB-176	1.53e+06	1.04	y	41:18	1.19	57.8	-	-	*		
PCB-186	*	*	n	NotFnd	1.18	*	804	644	0.491		
PCB-178	1.67e+06	1.06	y	42:20	0.85	88.0	-	-	*		
PCB-175	3.54e+05	1.07	y	42:40	0.89	17.9	-	-	*		
PCB-187	1.09e+07	1.04	y	42:48	0.95	517	-	-	*	Co-elute PCB 182	
PCB-182	1.09e+07	1.04	y	42:48	0.95	517	-	-	*	Co-elute PCB 187	
PCB-183	5.47e+06	1.02	y	43:08	0.95	259	-	-	*		
PCB-185	9.79e+05	1.03	y	43:46	0.86	51.5	-	-	*		
PCB-174	8.15e+06	1.07	y	44:06	0.89	413	-	-	*		
PCB-181	*	*	n	NotFnd	0.82	*	804	644	0.706		
PCB-177	4.59e+06	1.05	y	44:20	0.74	279	-	-	*		
PCB-171	2.27e+06	1.02	y	44:37	0.82	124	-	-	*		
PCB-173	1.64e+05	1.02	y	45:02	0.73	10.1	-	-	*		
PCB-172	1.21e+06	1.04	y	45:26	0.75	73.4	-	-	*		
PCB-192	*	*	n	NotFnd	0.96	*	804	644	0.600		
PCB-180	1.69e+07	1.06	y	45:46	0.98	777	-	-	*		
PCB-193	1.19e+06	1.01	y	45:56	1.05	51.2	-	-	*		
PCB-191	4.02e+05	0.97	y	46:09	0.97	18.6	-	-	*		
PCB-170	6.54e+06	1.07	y	47:03	0.64	458	-	-	*		
PCB-190	1.97e+06	1.06	y	47:13	0.88	100	-	-	*		
PCB-189	3.42e+05	1.00	y	48:26	1.10	15.1	-	-	*		
13C-PCB-189	4.08e+07	1.05	y	48:24	0.90	2040				103	
PCB-202	7.90e+05	0.86	y	44:48	0.95	42.8	-	-	*		
PCB-201	5.52e+05	0.88	y	45:15	0.92	30.7	-	-	*		
PCB-204	*	*	n	NotFnd	0.92	*	648	648	0.712		
PCB-197	1.68e+05	0.93	y	45:39	0.93	9.34	-	-	*		
PCB-200	4.86e+05	0.85	y	46:24	0.88	28.3	-	-	*		
PCB-198	1.32e+05	0.78	y	47:35	0.60	11.3	-	-	*		
PCB-199	2.81e+06	0.86	y	47:41	0.55	260	-	-	*		
PCB-203	3.37e+06	0.86	y	47:56	0.64	269	-	-	*	Co-elute PCB 196	
PCB-196	3.37e+06	0.86	y	47:56	0.64	269	-	-	*	Co-elute PCB 203	
13C-PCB-202	3.84e+07	0.92	y	44:47	1.00	1720				87.2	
13C-PCB-178	3.61e+07	1.08	y	42:19	0.84	1940				98.0	
13C-PCB-138	4.40e+07	1.25	y	41:31	-	8.90					
PCB-195	9.59e+05	0.88	y	49:02	0.75	72.5	-	-	*		
PCB-194	2.71e+06	0.85	y	49:49	0.76	202	-	-	*		
PCB-205	1.91e+05	0.96	y	50:05	1.00	10.8	-	-	*		
13C-PCB-205	3.49e+07	0.91	y	50:04	1.27	2020				102	
PCB-208	3.26e+05	1.37	y	49:10	0.93	18.8	-	-	*		
13C-PCB-208	3.69e+07	0.78	y	49:08	1.49	1820				92.0	
PCB-207	1.67e+05	1.37	y	49:26	1.00	10.4	-	-	*		
PCB-206	9.64e+05	1.26	y	51:17	0.99	72.4	-	-	*		
13C-PCB-206	2.65e+07	0.78	y	51:15	1.02	1910				96.8	
PCB-209	4.29e+05	1.13	y	52:27	1.06	22.6	-	-	*		
13C-PCB-209	3.56e+07	1.19	y	52:27	1.58	1660				84.1	
13C-PCB-194	2.68e+07	0.91	y	49:49	-	10.1					

Analyst: _____ Date: 10/7/16

File:28SEP16Y #1-783 Acq:28-SEP-2016 22:53:36 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
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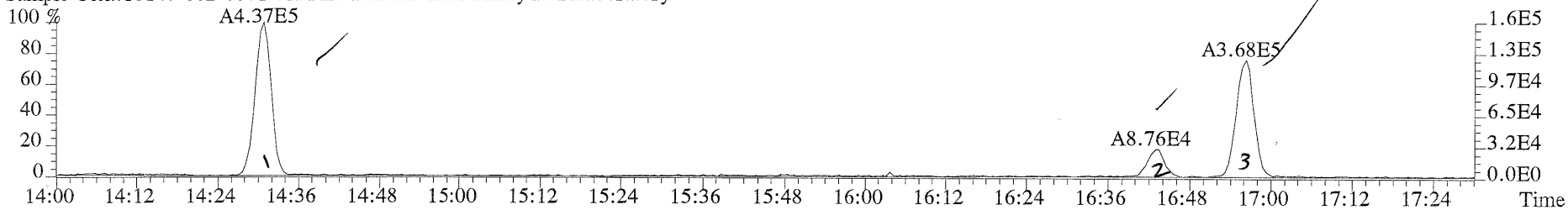

File:28SEP16Y #1-783 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
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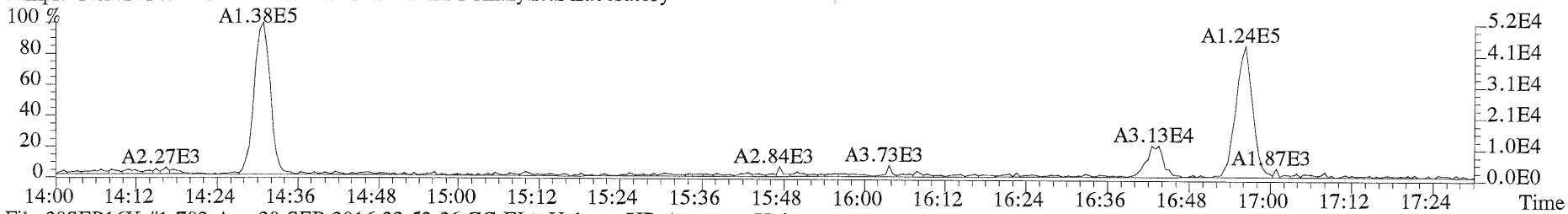
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



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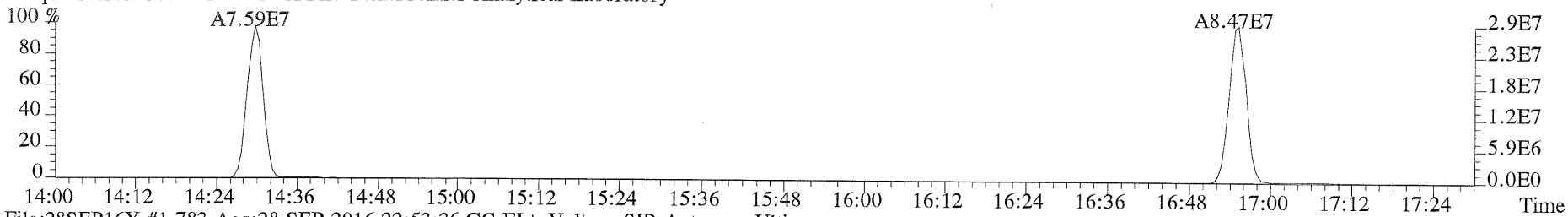
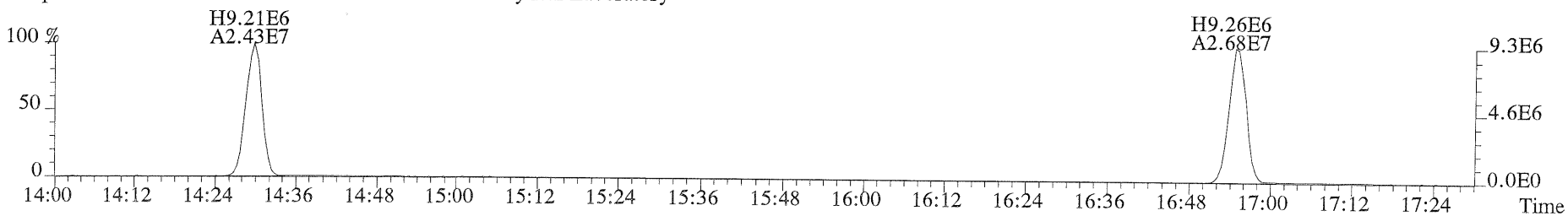
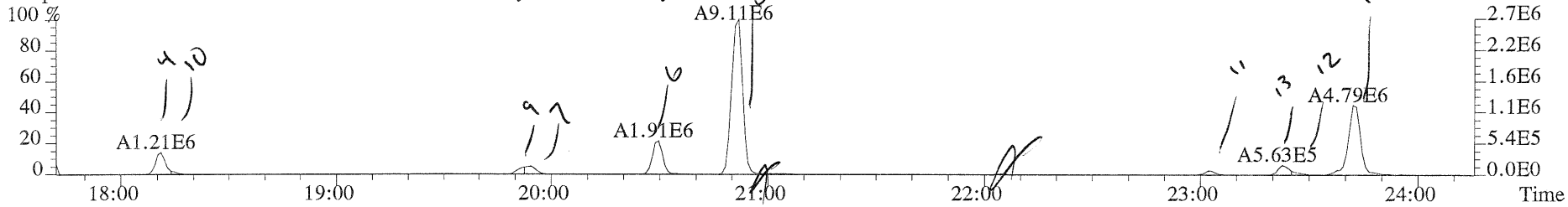
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



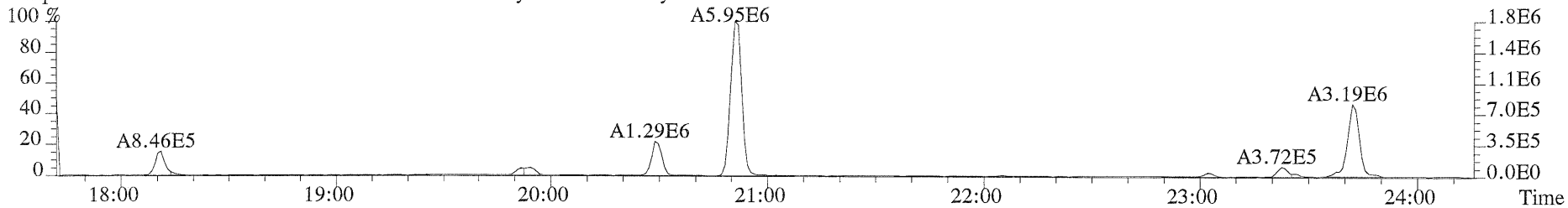
File:28SEP16Y #1-783 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



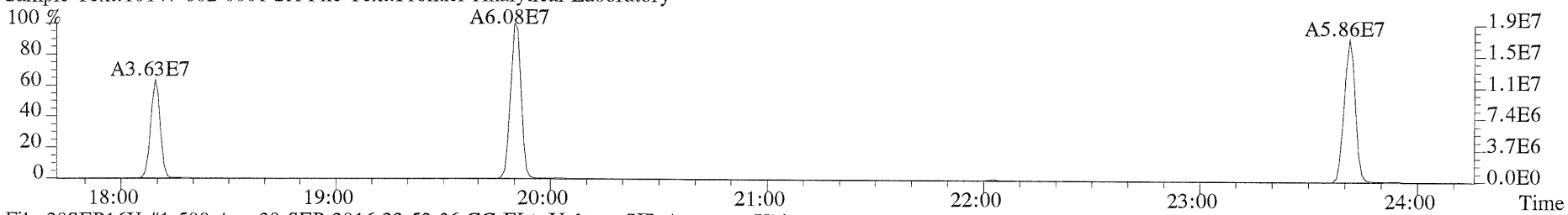
File:28SEP16Y #1-509 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



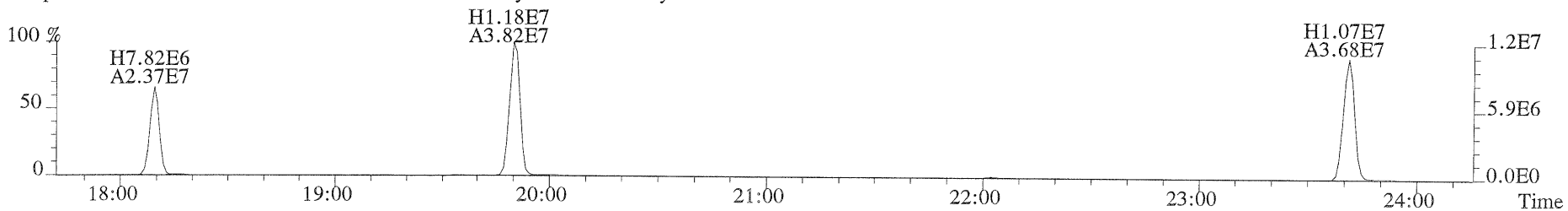
File:28SEP16Y #1-509 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



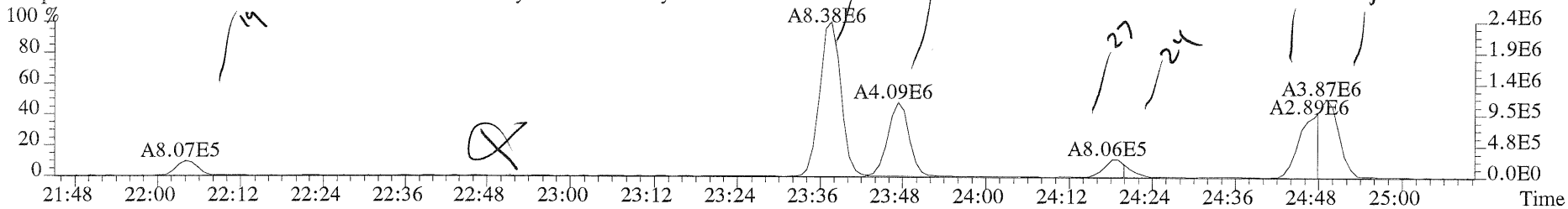
File:28SEP16Y #1-509 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



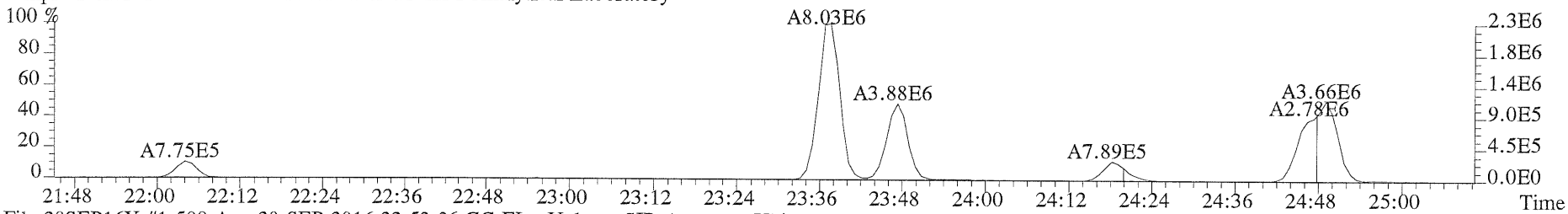
File:28SEP16Y #1-509 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



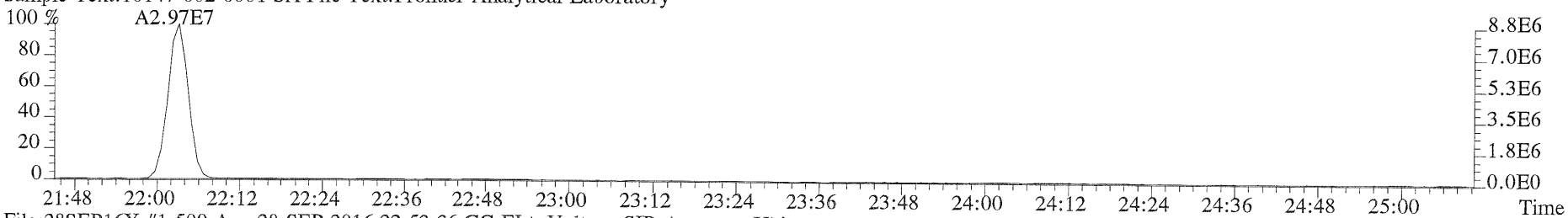
File:28SEP16Y #1-509 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



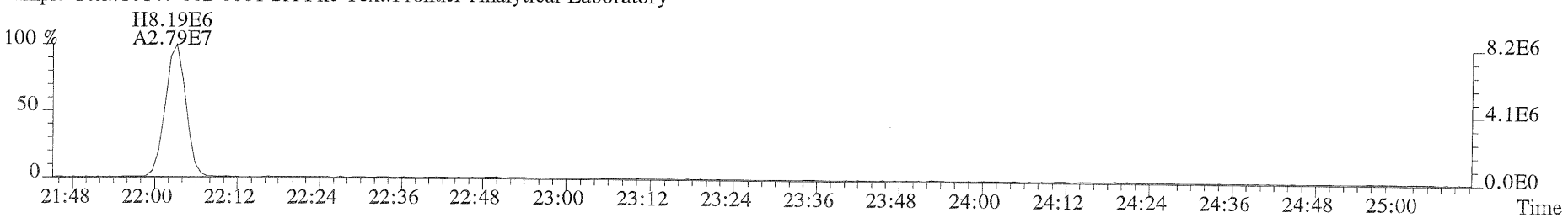
File:28SEP16Y #1-509 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



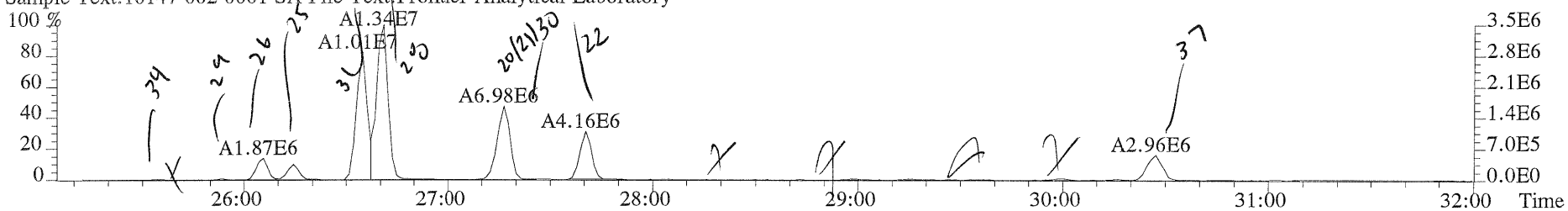
File:28SEP16Y #1-509 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



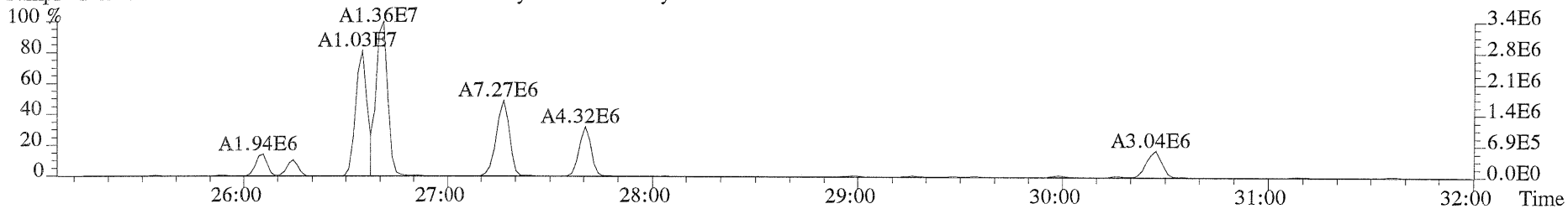
File:28SEP16Y #1-509 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



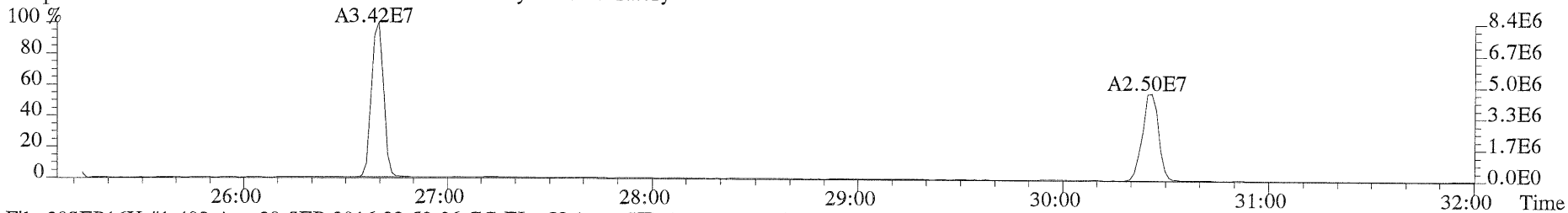
File:28SEP16Y #1-403 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



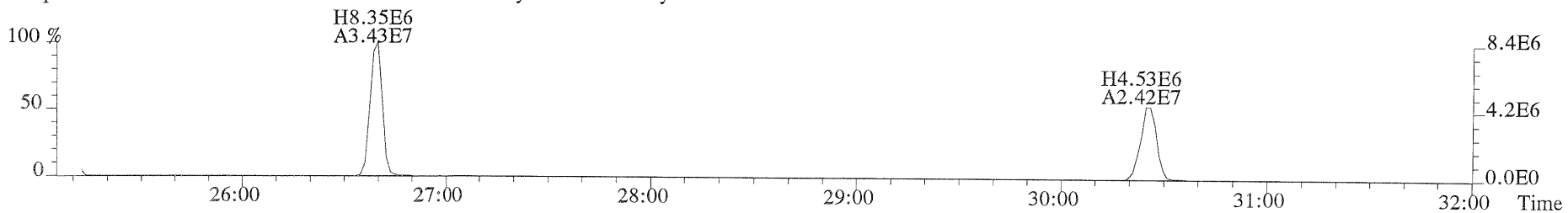
File:28SEP16Y #1-403 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



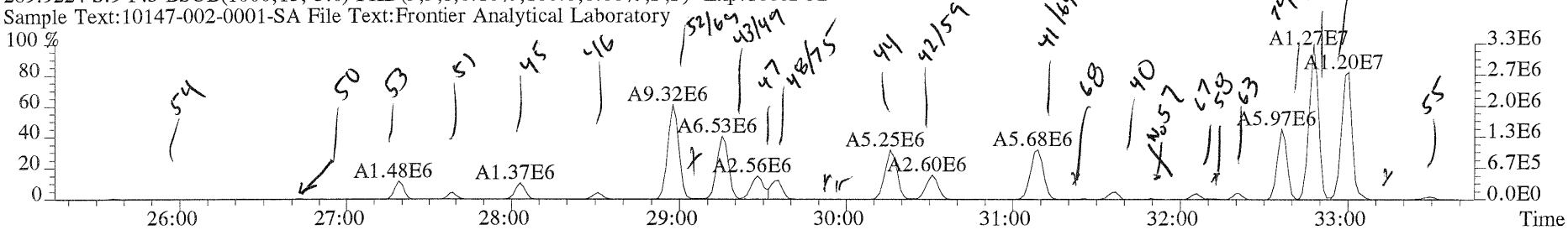
File:28SEP16Y #1-403 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



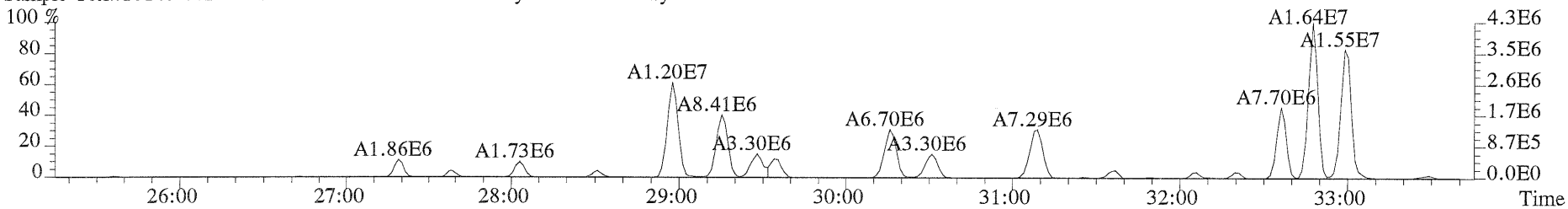
File:28SEP16Y #1-403 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



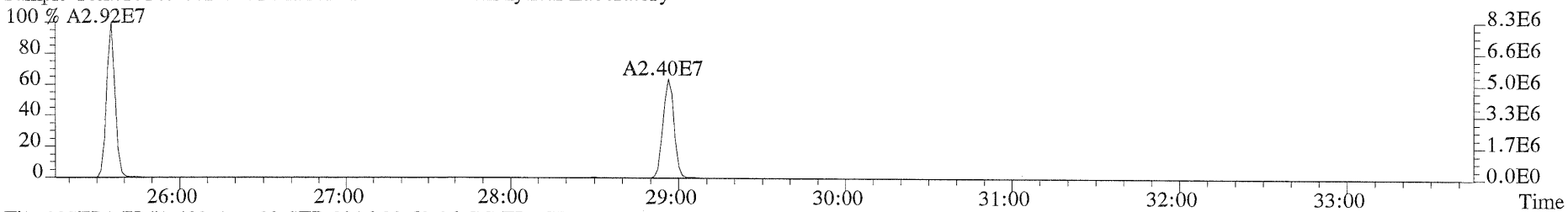
File:28SEP16Y #1-403 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



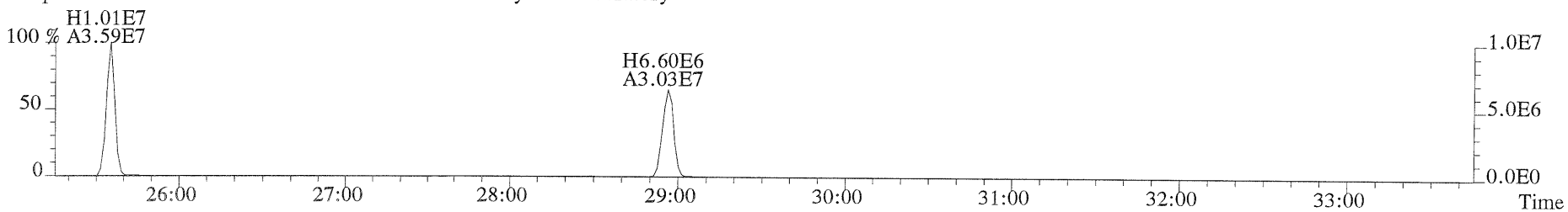
File:28SEP16Y #1-403 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



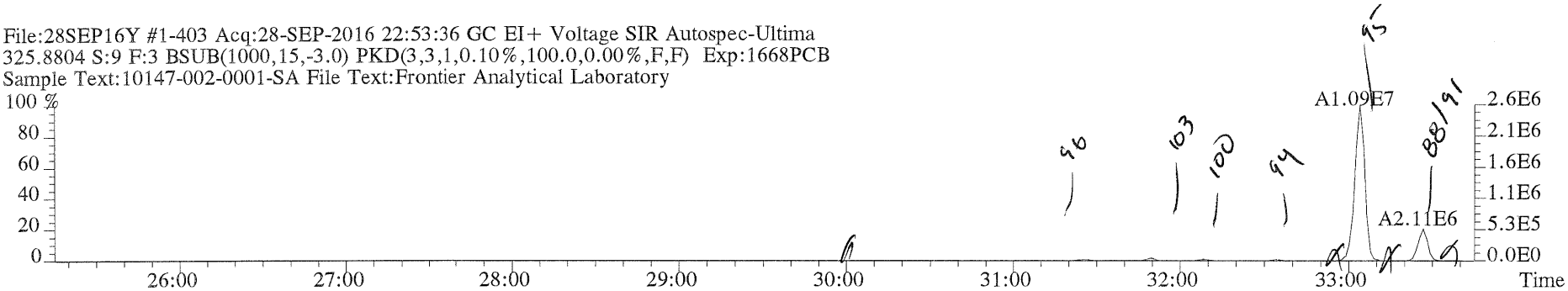
File:28SEP16Y #1-403 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



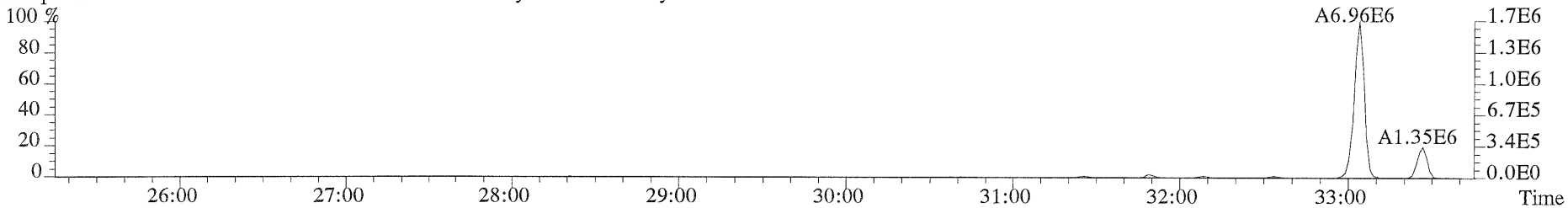
File:28SEP16Y #1-403 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



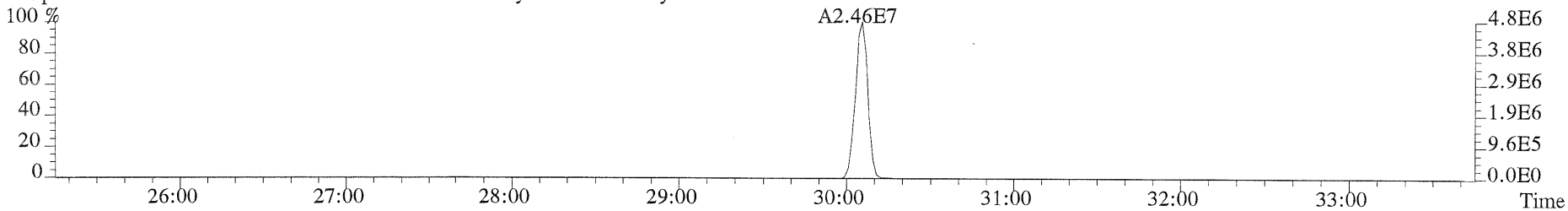
File:28SEP16Y #1-403 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



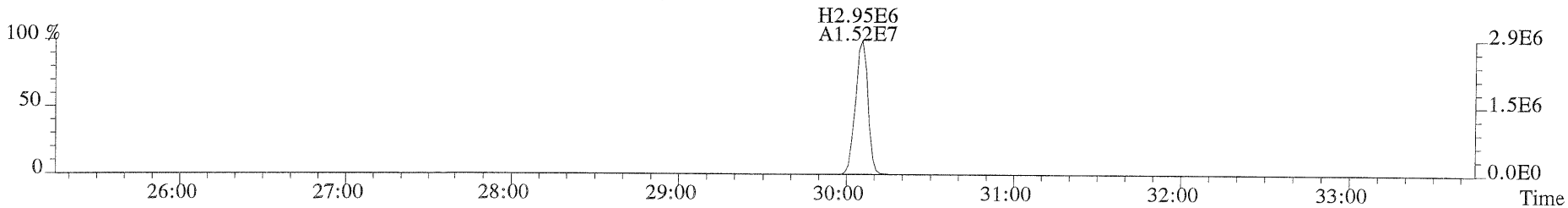
File:28SEP16Y #1-403 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



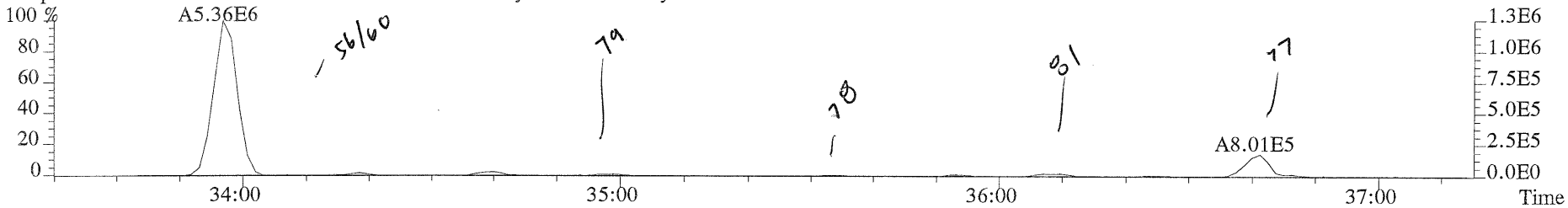
File:28SEP16Y #1-403 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



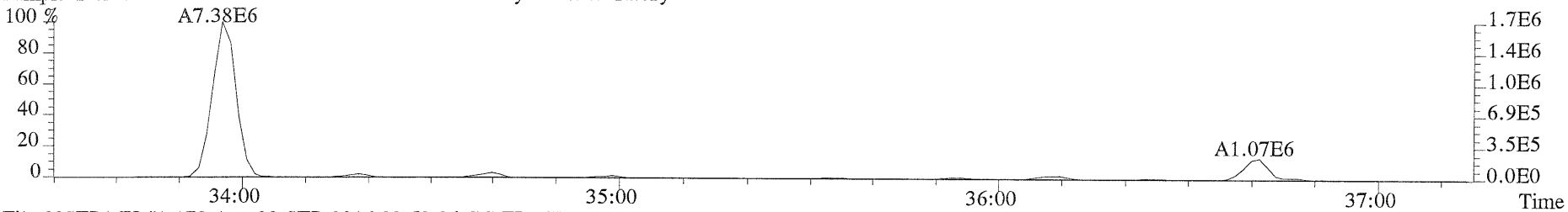
File:28SEP16Y #1-403 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



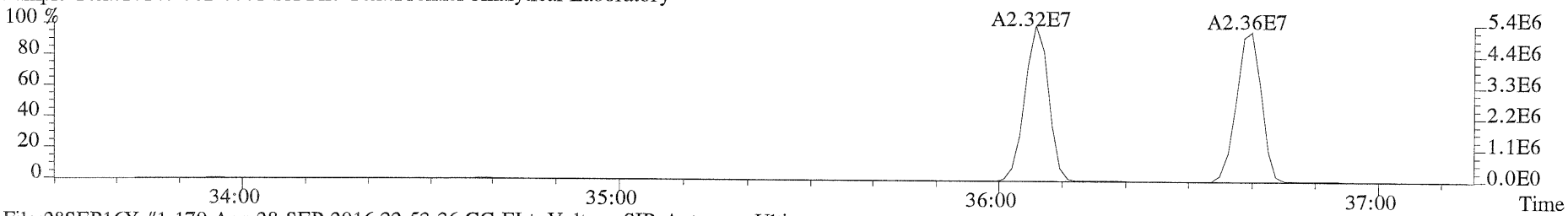
File:28SEP16Y #1-179 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



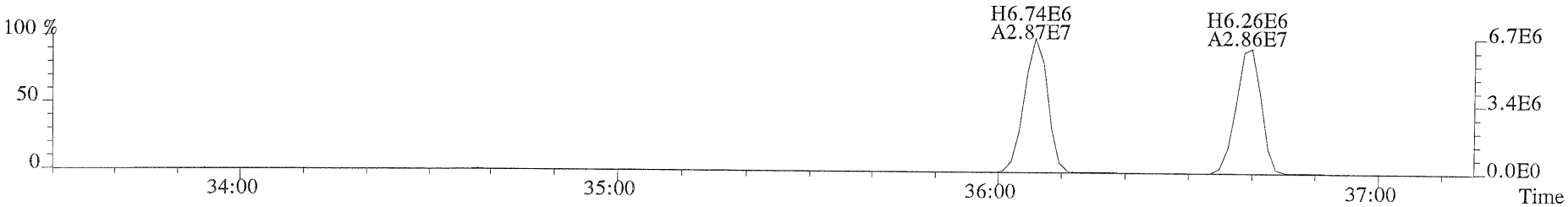
File:28SEP16Y #1-179 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



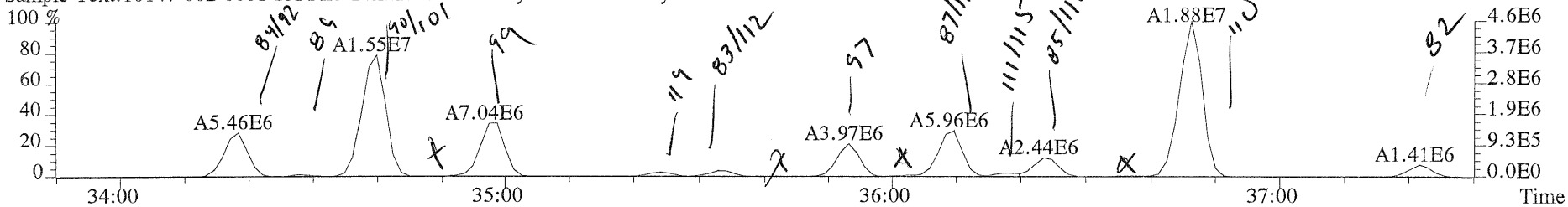
File:28SEP16Y #1-179 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



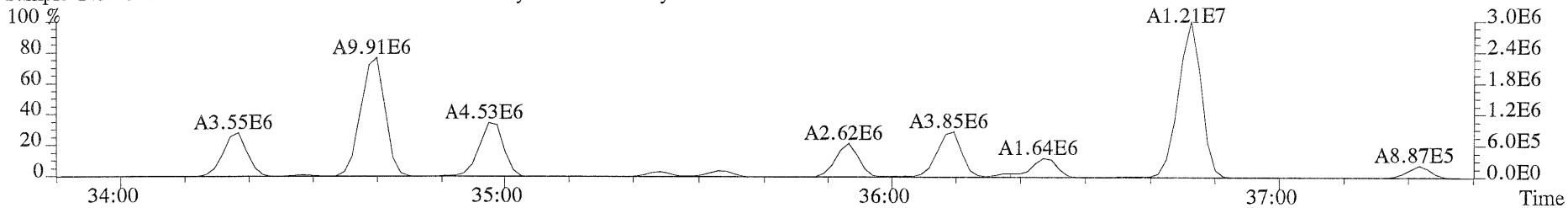
File:28SEP16Y #1-179 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



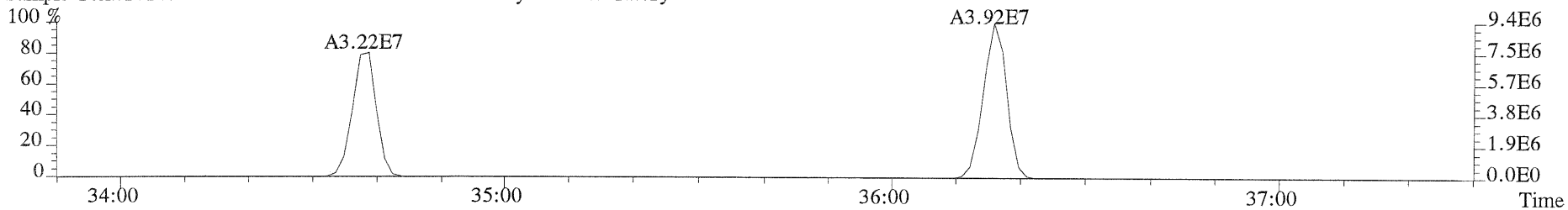
File:28SEP16Y #1-179 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



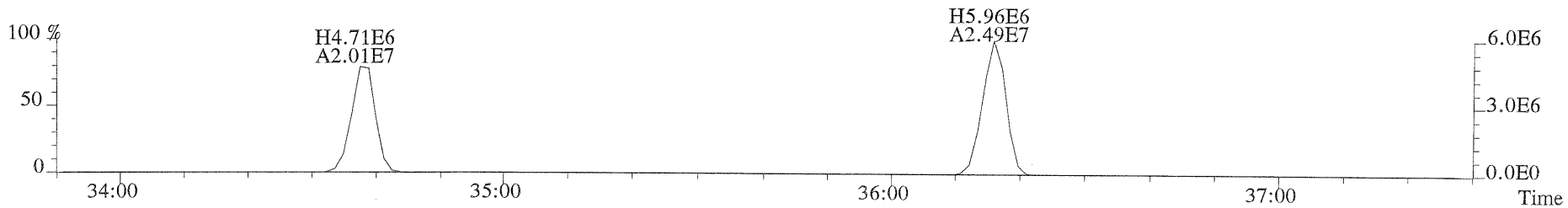
File:28SEP16Y #1-179 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



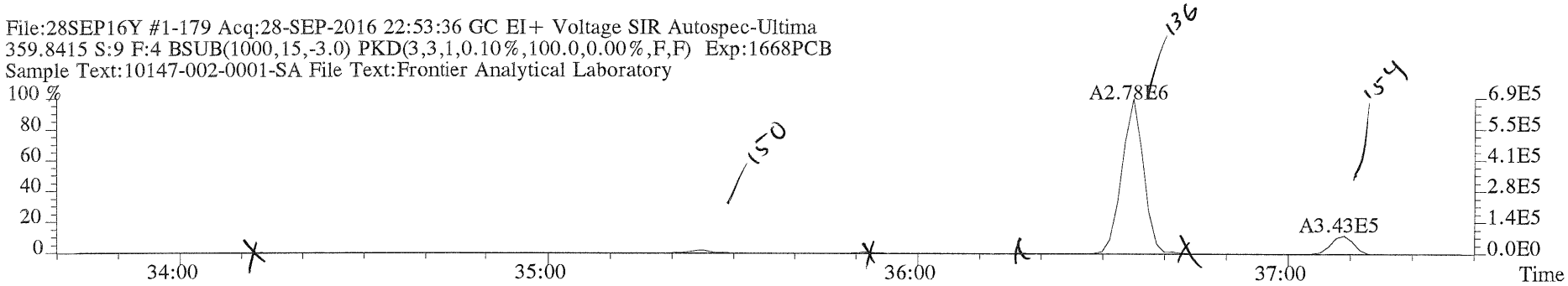
File:28SEP16Y #1-179 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



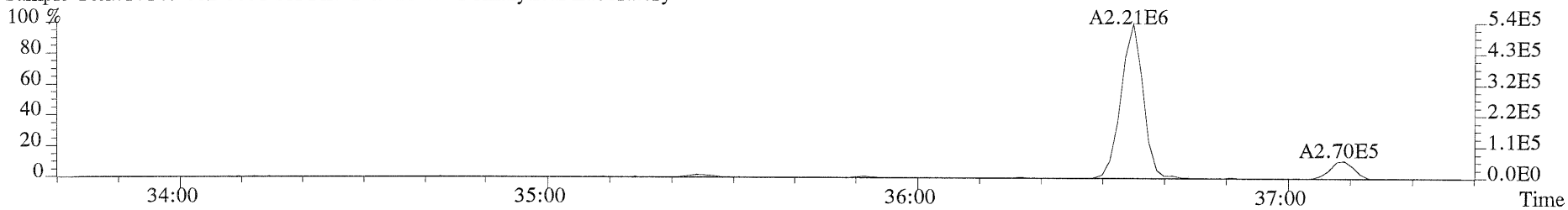
File:28SEP16Y #1-179 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



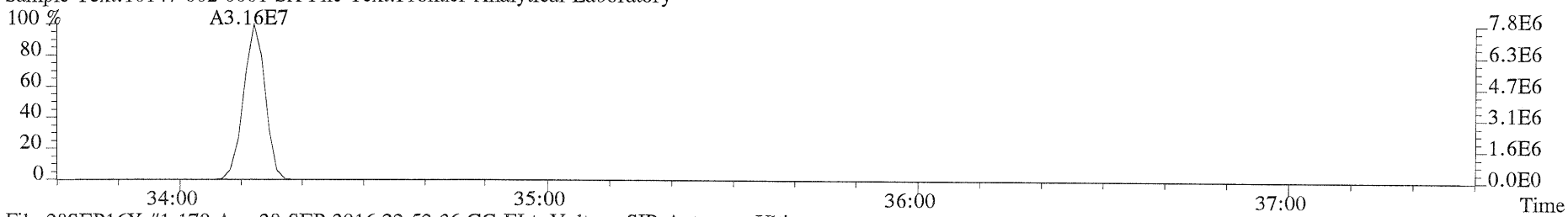
File:28SEP16Y #1-179 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



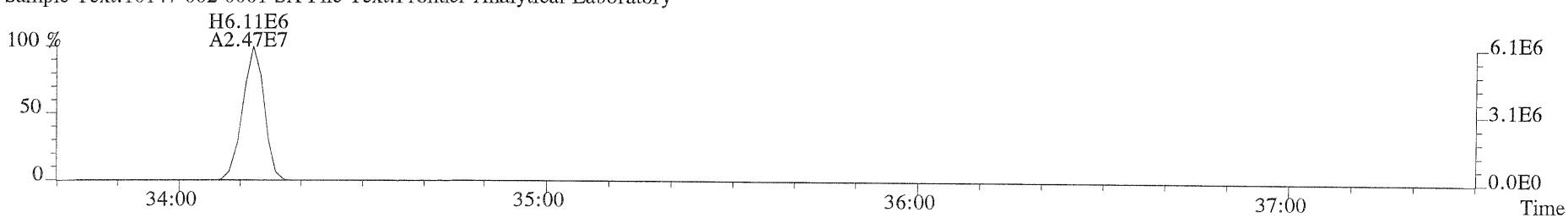
File:28SEP16Y #1-179 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



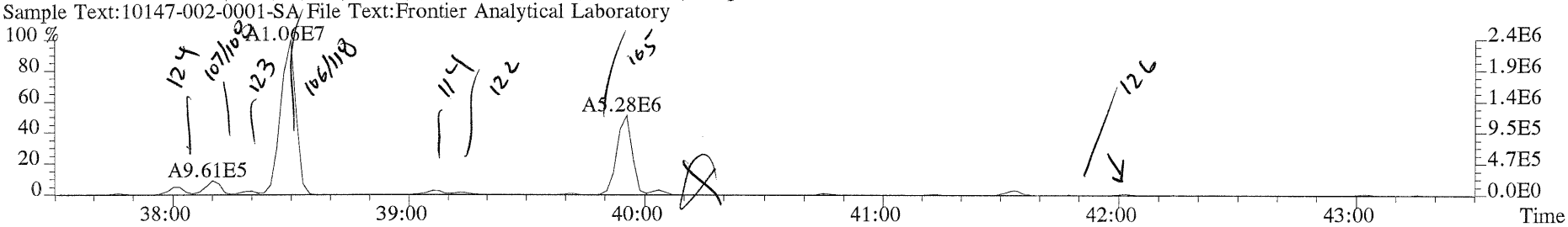
File:28SEP16Y #1-179 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



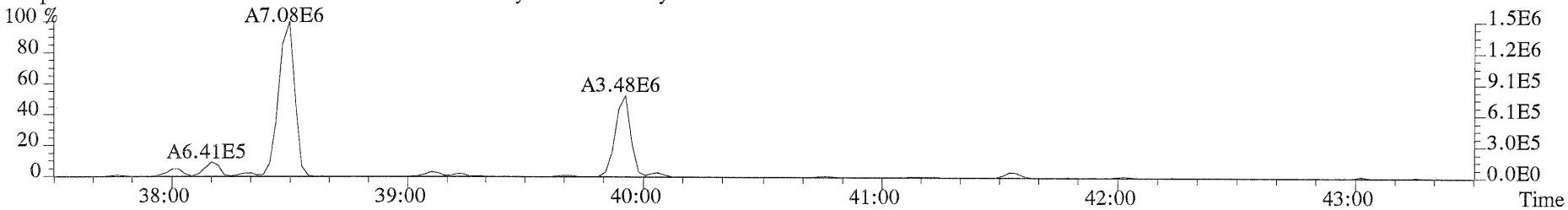
File:28SEP16Y #1-179 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



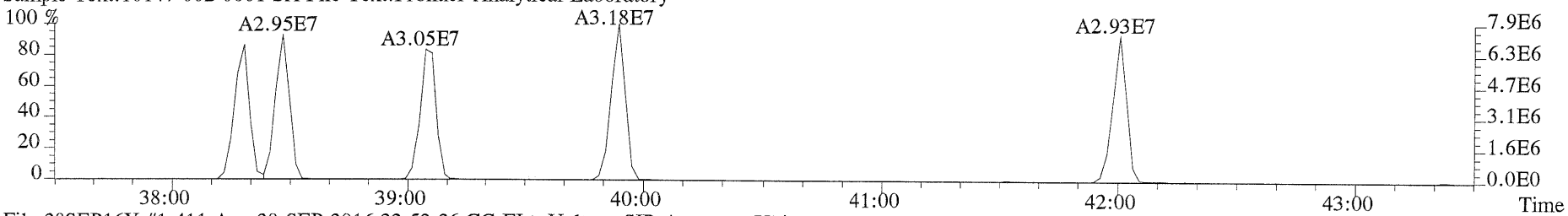
File:28SEP16Y #1-411 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



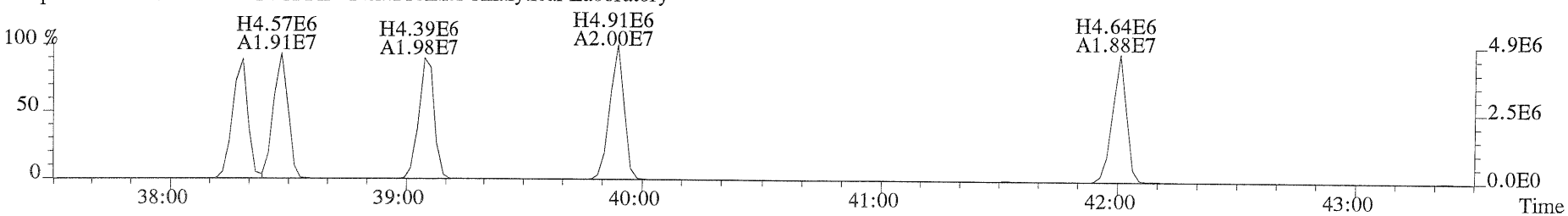
File:28SEP16Y #1-411 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



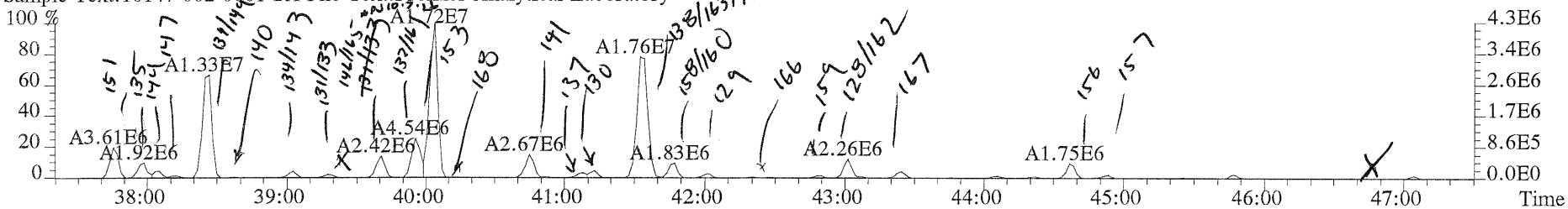
File:28SEP16Y #1-411 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



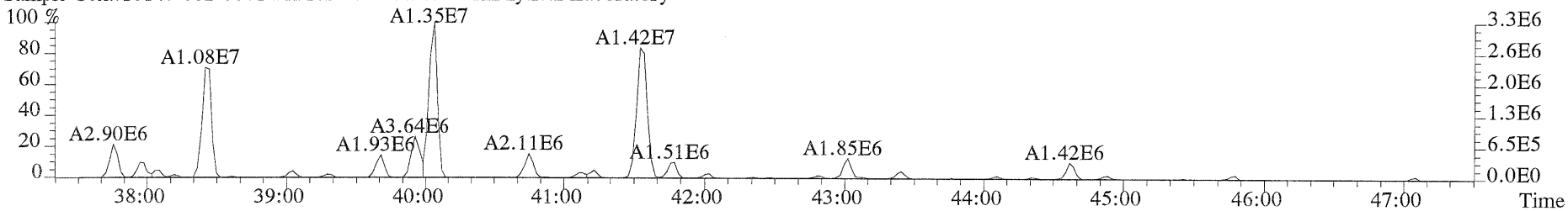
File:28SEP16Y #1-411 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



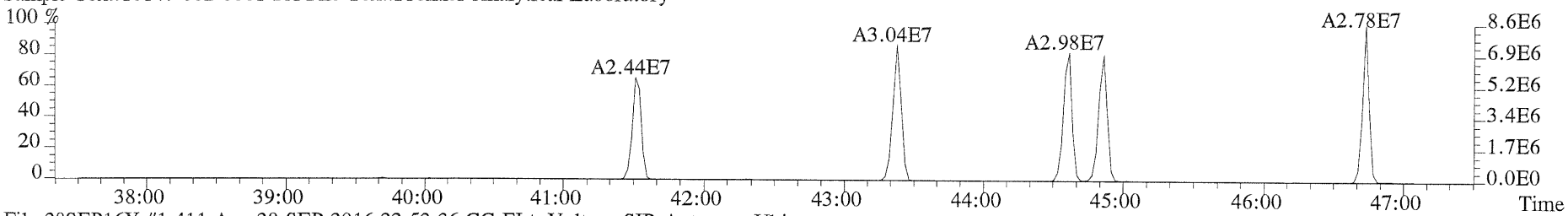
File:28SEP16Y #1-411 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



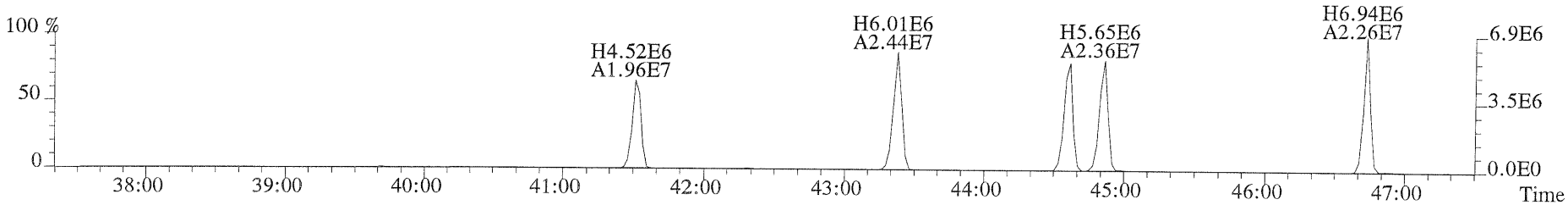
File:28SEP16Y #1-411 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



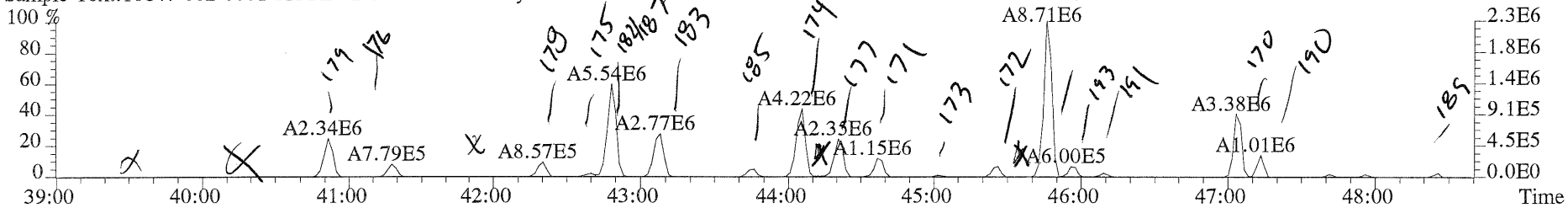
File:28SEP16Y #1-411 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



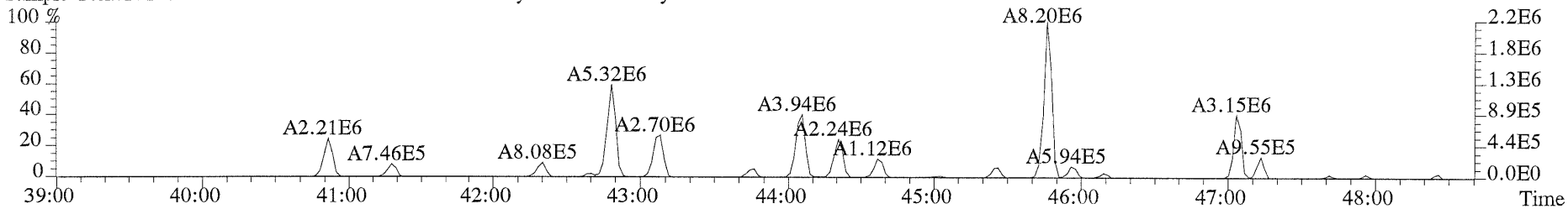
File:28SEP16Y #1-411 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



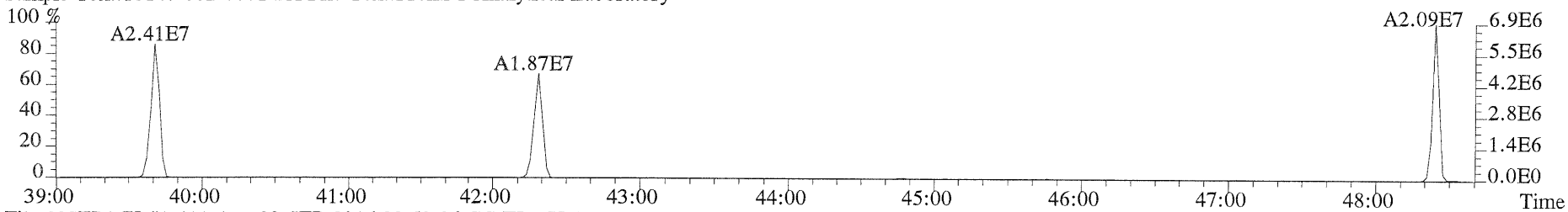
File:28SEP16Y #1-411 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



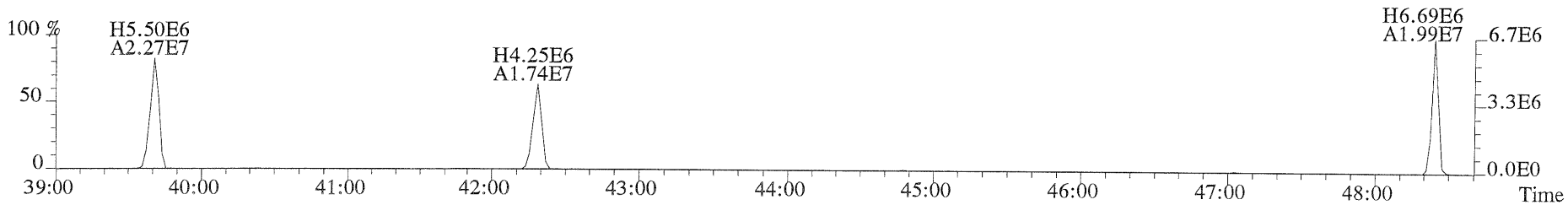
File:28SEP16Y #1-411 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



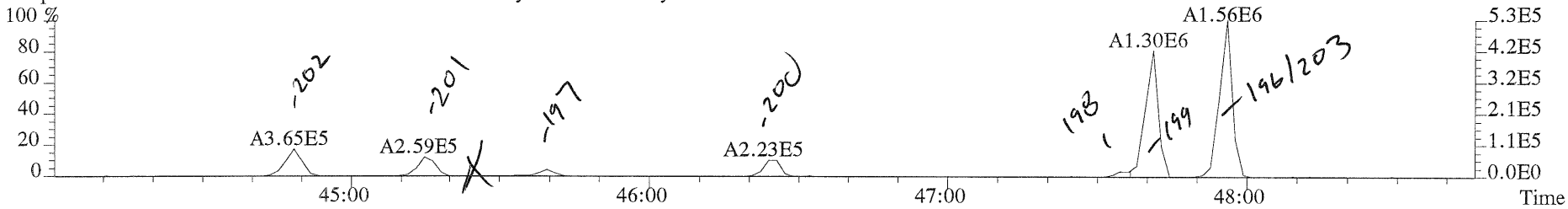
File:28SEP16Y #1-411 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:28-SEP-2016 22:53:36 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:10147-002-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



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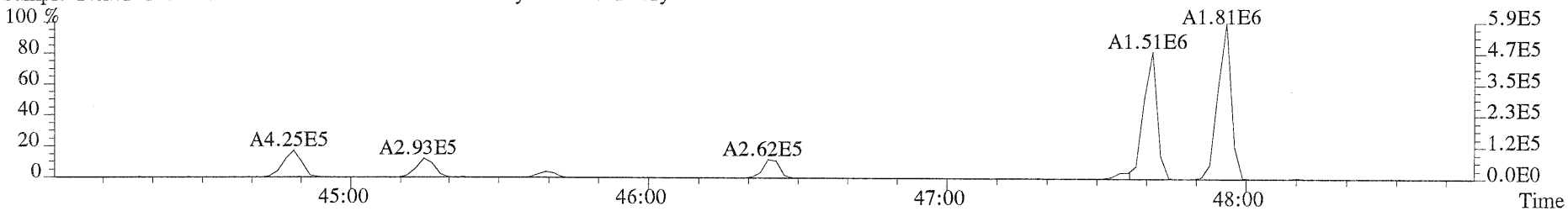
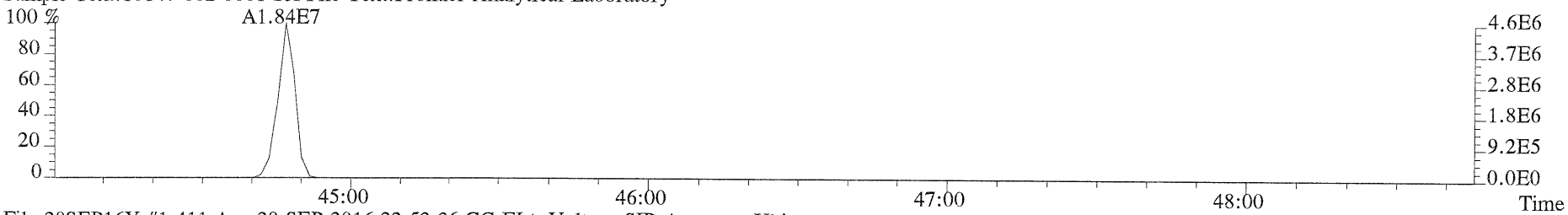
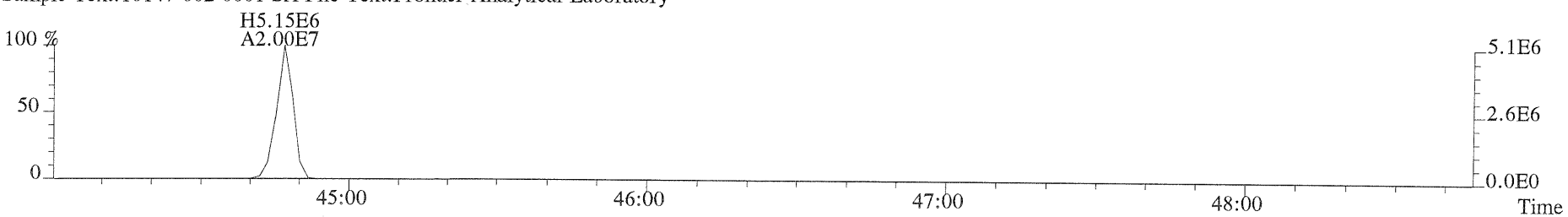
429.7606 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



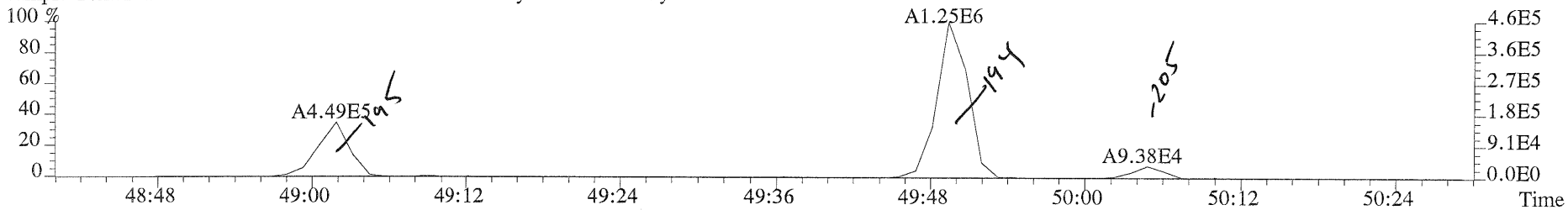
File:28SEP16Y #1-411 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



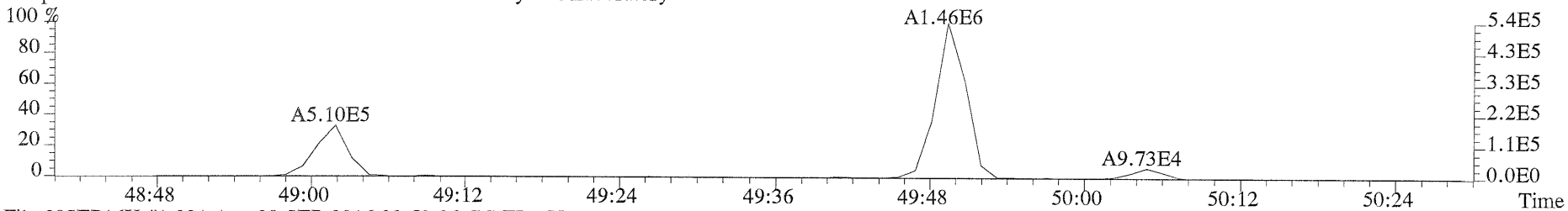
File:28SEP16Y #1-411 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



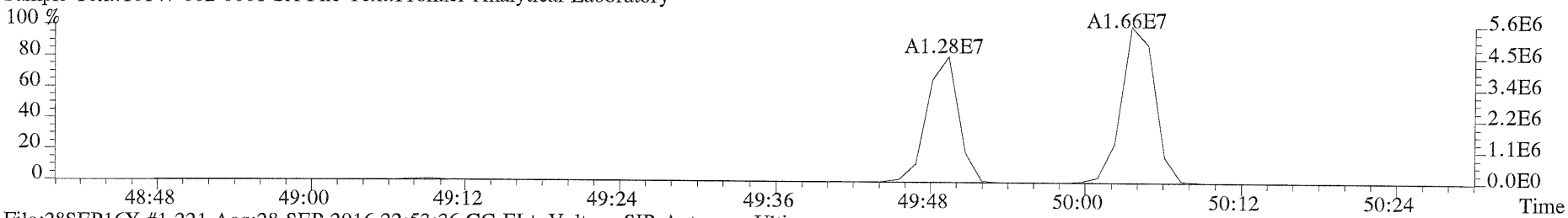
File:28SEP16Y #1-221 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



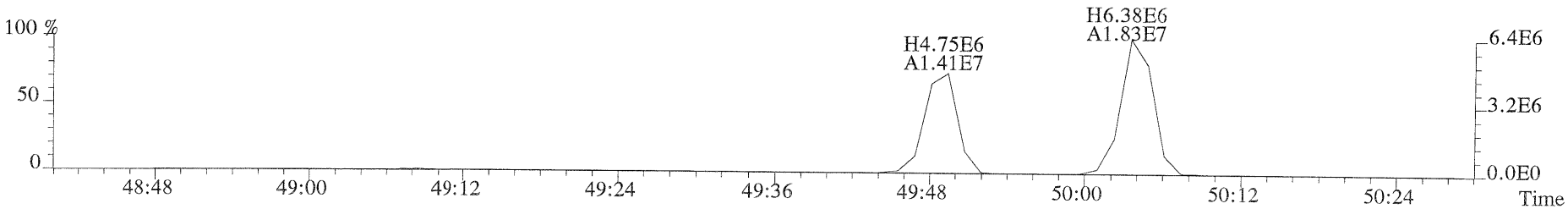
File:28SEP16Y #1-221 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



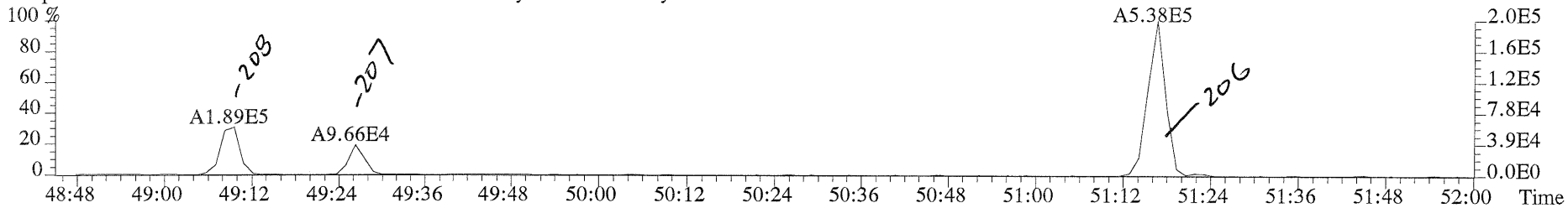
File:28SEP16Y #1-221 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



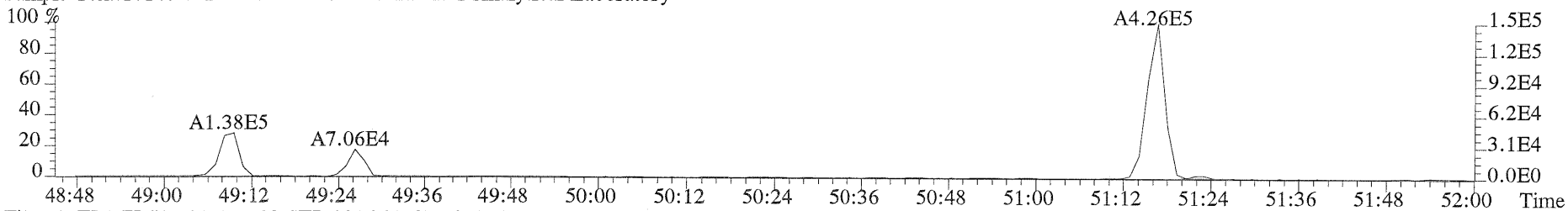
File:28SEP16Y #1-221 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



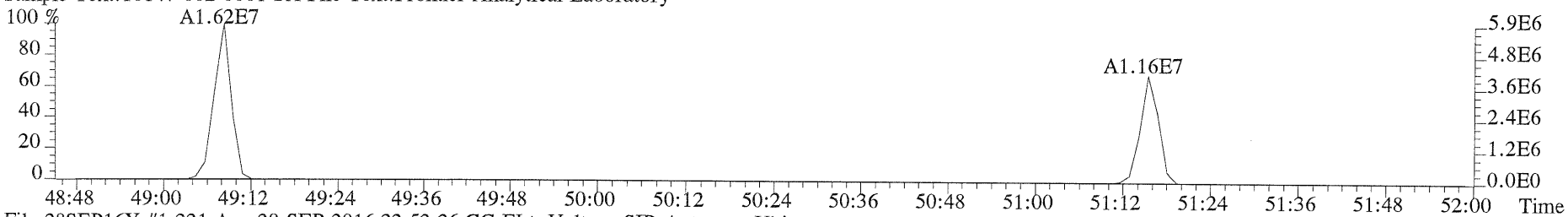
File:28SEP16Y #1-221 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



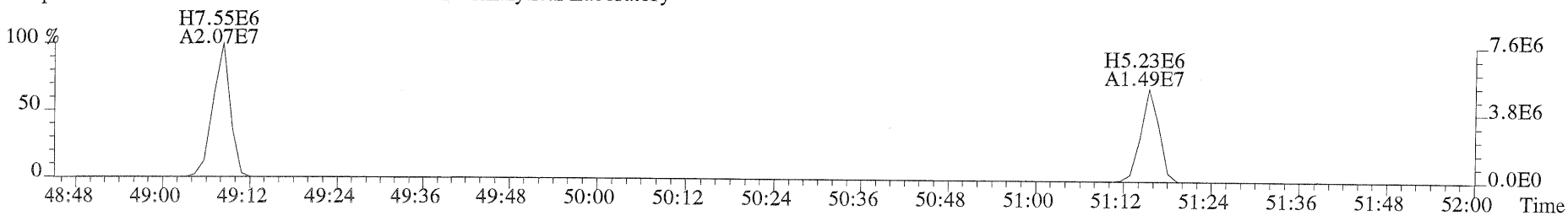
File:28SEP16Y #1-221 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



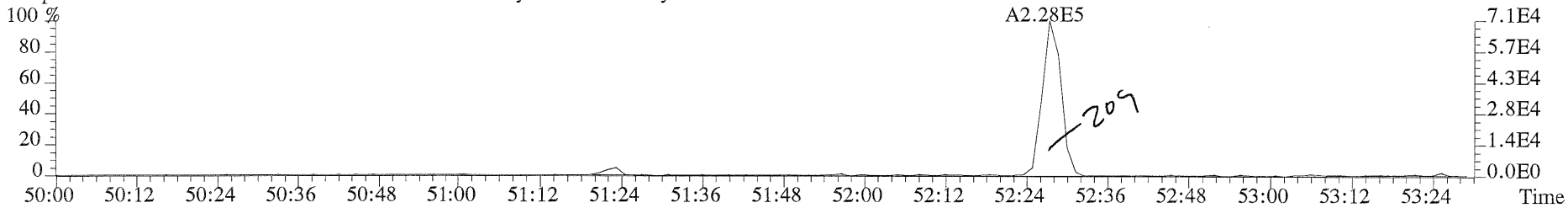
File:28SEP16Y #1-221 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



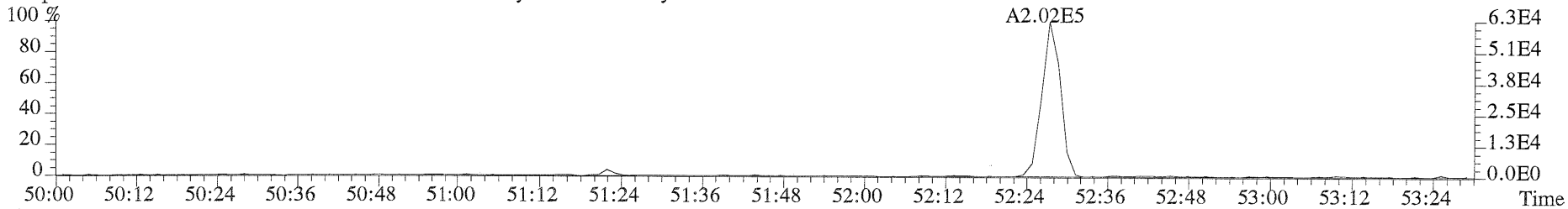
File:28SEP16Y #1-221 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



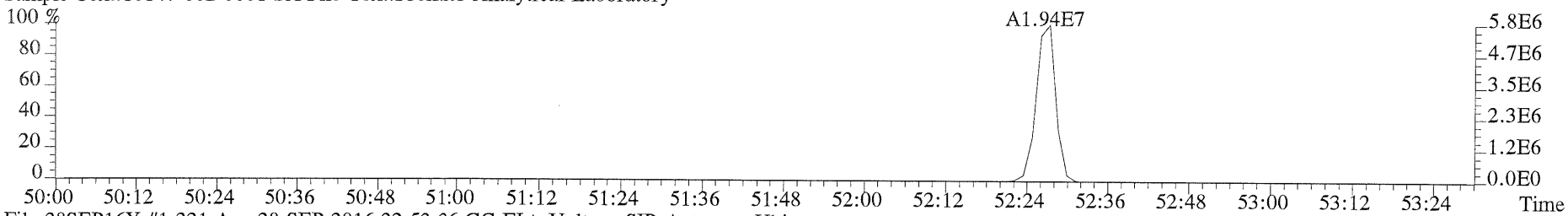
File:28SEP16Y #1-221 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



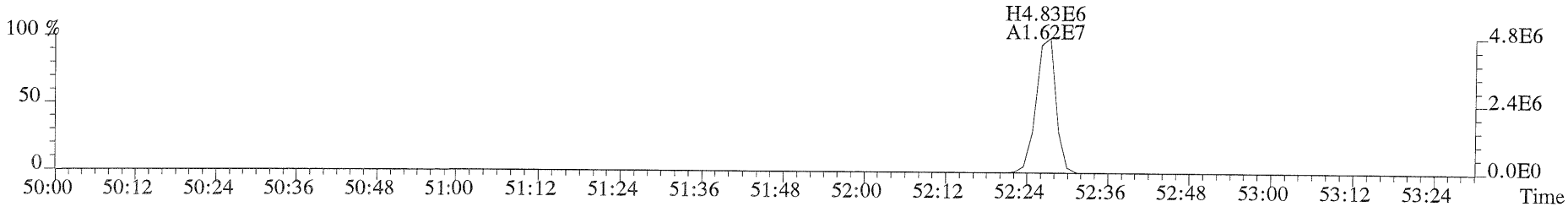
File:28SEP16Y #1-221 Acq:28-SEP-2016 22:53:36 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-002-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 22:53:36 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:10147-002-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 22:53:36 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:10147-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10147-003-0001-SA Filename: 28SEP16Y Sam:10 Acquired: 28-SEP-16 23:50:04 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-SC-ENR+AC-CC-CORE ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.010 ✓

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	4.04e+05	2.85 y	14:31	1.00	7.46		-	-	*	
13C-PCB-1	1.08e+08	3.11 y	14:30	1.29	1690					84.5
PCB-2	8.18e+04	2.84 y	16:43	0.91	1.59	J	-	-	*	
PCB-3	3.25e+05	2.96 y	16:57	0.96	5.81		-	-	*	
13C-PCB-3	1.16e+08	3.15 y	16:55	1.26	1860					93.1
PCB-4	1.20e+06	1.48 y	18:11	0.95	40.0		-	-	*	
PCB-10	8.64e+04	1.42 y	18:15	1.14	1.80	J	-	-	*	
13C-PCB-4	6.32e+07	1.56 y	18:10	0.64	1980					99.3
PCB-9	3.57e+05	1.48 y	19:52	1.21	7.03		-	-	*	
PCB-7	4.15e+05	1.50 y	19:54	1.16	8.53		-	-	*	
PCB-6	2.11e+06	1.52 y	20:30	1.14	44.1		-	-	*	
PCB-8	9.77e+06	1.53 y	20:52	1.15	203		-	-	*	
PCB-5	*	* n	NotFnd	1.17	*		2400	2000	0.721	
PCB-14	*	* n	NotFnd	1.14	*		2400	2000	0.739	
PCB-11	2.79e+05	1.47 y	23:03	1.10	6.04		-	-	*	
PCB-13	6.59e+05	1.38 y	23:23	1.08	14.6		-	-	*	
PCB-12	1.85e+05	1.44 y	23:25	1.17	3.79	J	-	-	*	
PCB-15	5.22e+06	1.47 y	23:43	1.08	92.6		-	-	*	
13C-PCB-15	1.04e+08	1.59 y	23:41	1.00	2100					105
PCB-19	9.13e+05	1.10 y	22:05	1.04	29.2		-	-	*	
PCB-30	*	* n	NotFnd	1.45	*		2100	1500	0.675	
PCB-18	1.06e+07	1.04 y	23:37	1.01	347		-	-	*	
PCB-17	5.30e+06	1.05 y	23:47	1.08	164		-	-	*	
PCB-27	6.47e+05	1.01 y	24:18	1.55	13.9		-	-	*	
PCB-24	7.48e+05	1.13 y	24:19	1.32	18.9		-	-	*	
PCB-16	3.93e+06	1.02 y	24:48	1.15	114		-	-	*	
PCB-32	4.38e+06	1.09 y	24:49	1.34	109		-	-	*	
13C-PCB-19	6.00e+07	1.07 y	22:03	0.66	1820					91.4
13C-PCB-9	9.93e+07	1.59 y	19:51	-	11.9					
PCB-34	7.75e+04	1.04 y	25:34	0.81	3.26	J	-	-	*	
PCB-23	*	* n	NotFnd	0.90	*		1020	980	0.983	
PCB-29	1.55e+05	1.04 y	25:54	0.90	5.94		-	-	*	
PCB-26	2.77e+06	0.96 y	26:05	0.97	97.9		-	-	*	
PCB-25	1.53e+06	0.98 y	26:14	1.21	43.2		-	-	*	
PCB-31	1.14e+07	0.95 y	26:35	0.97	400		-	-	*	
PCB-28	1.59e+07	0.98 y	26:41	1.08	505		-	-	*	
PCB-20	9.38e+06	0.98 y	27:16	1.02	315		-	-	*	Co-elute PCB 21/33
PCB-21	9.38e+06	0.98 y	27:16	1.02	315		-	-	*	Co-elute PCB 20/33
PCB-33	9.38e+06	0.98 y	27:16	1.02	315		-	-	*	Co-elute PCB 20/21
PCB-22	5.67e+06	0.99 y	27:40	1.08	180		-	-	*	
PCB-36	*	* n	NotFnd	0.96	*		1020	980	0.925	
PCB-39	*	* n	NotFnd	1.00	*		1020	980	0.891	
PCB-38	*	* n	NotFnd	0.91	*		1020	980	0.972	
PCB-35	*	* n	NotFnd	1.01	*		1020	980	0.877	
PCB-37	4.11e+06	0.96 y	30:27	1.08	131		-	-	*	
13C-PCB-37	5.83e+07	1.01 y	30:26	1.03	1920					96.4

PCB-54	5.91e+04	0.70	y	25:36	1.04	1.69	J	-	-	*	
PCB-50	5.94e+04	0.84	y	26:43	0.79	2.23	J	-	-	*	
PCB-53	2.13e+06	0.80	y	27:19	0.80	79.4		-	-	*	
PCB-51	8.02e+05	0.81	y	27:39	0.84	28.5		-	-	*	
PCB-45	2.05e+06	0.79	y	28:03	0.72	84.9		-	-	*	
PCB-46	7.77e+05	0.81	y	28:31	0.69	33.4		-	-	*	
PCB-52	1.58e+07	0.78	y	28:57	0.99	473		-	-	*	Co-elute PCB 69
PCB-69	1.58e+07	0.78	y	28:57	0.99	473		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.07	*		992	1300	0.570	
PCB-43	1.05e+07	0.79	y	29:15	0.79	397		-	-	*	Co-elute PCB 49
PCB-49	1.05e+07	0.79	y	29:15	0.79	397		-	-	*	Co-elute PCB 43
PCB-47	4.09e+06	0.78	y	29:28	1.07	114		-	-	*	
PCB-48	3.34e+06	0.78	y	29:35	0.94	106		-	-	*	Co-elute PCB 75
PCB-75	3.34e+06	0.78	y	29:35	0.94	106		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*		992	1300	0.615	
PCB-62	*	*	n	NotFnd	0.99	*		992	1300	0.613	
PCB-44	9.17e+06	0.78	y	30:16	0.73	371		-	-	*	
PCB-42	4.56e+06	0.78	y	30:31	0.98	138		-	-	*	Co-elute PCB 59
PCB-59	4.56e+06	0.78	y	30:31	0.98	138		-	-	*	Co-elute PCB 42
PCB-72	1.14e+07	0.77	y	31:05	1.09	311		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.14e+07	0.77	y	31:05	1.09	311		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.14e+07	0.77	y	31:05	1.09	311		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.14e+07	0.77	y	31:05	1.09	311		-	-	*	Co-elute PCB 72/41/71
PCB-68	7.87e+04	0.73	y	31:15	1.12	2.08	J	-	-	*	
PCB-40	1.32e+06	0.75	y	31:27	0.63	62.0		-	-	*	
PCB-57	1.53e+05	0.79	y	31:46	1.08	4.21		-	-	*	
PCB-67	7.11e+05	0.79	y	32:03	1.07	19.7		-	-	*	
PCB-58	5.96e+04	0.75	y	32:10	1.08	1.64	J	-	-	*	
PCB-63	8.03e+05	0.77	y	32:18	1.08	22.1		-	-	*	
PCB-74	9.33e+06	0.78	y	32:35	1.18	234		-	-	*	
PCB-61	1.99e+07	0.78	y	32:46	1.15	512		-	-	*	Co-elute PCB 70
PCB-70	1.99e+07	0.78	y	32:46	1.15	512		-	-	*	Co-elute PCB 61
PCB-76	1.84e+07	0.78	y	32:58	1.13	482		-	-	*	Co-elute PCB 66
PCB-66	1.84e+07	0.78	y	32:58	1.13	482		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.27	*		992	1300	0.480	
PCB-55	4.63e+05	0.76	y	33:28	1.13	12.2		-	-	*	
13C-PCB-54	6.72e+07	0.82	y	25:35	1.09	2090					104
PCB-104	*	*	n	NotFnd	1.13	*		550	610	0.522	
PCB-96	1.46e+05	1.64	y	31:19	1.06	5.71		-	-	*	
PCB-103	2.92e+05	1.51	y	31:47	0.88	13.7		-	-	*	
PCB-100	1.24e+05	1.40	y	32:06	0.87	5.89		-	-	*	
PCB-94	9.69e+04	1.46	y	32:32	0.74	5.38		-	-	*	
PCB-98	*	*	n	NotFnd	1.06	*		550	610	0.557	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	1.06	*		550	610	0.557	Co-elute PCB 98
PCB-95	1.36e+07	1.58	y	33:03	0.63	885		-	-	*	
PCB-93	*	*	n	NotFnd	0.63	*		550	610	0.939	
PCB-88	2.53e+06	1.57	y	33:25	0.83	126		-	-	*	Co-elute PCB 91
PCB-91	2.53e+06	1.57	y	33:25	0.83	126		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.99	*		550	610	0.596	
13C-PCB-104	4.83e+07	1.65	y	30:06	0.98	1670					83.7
13C-PCB-28	6.74e+07	1.01	y	26:40	1.01	2260					113
13C-PCB-52	5.89e+07	0.78	y	28:56	-	9.89					

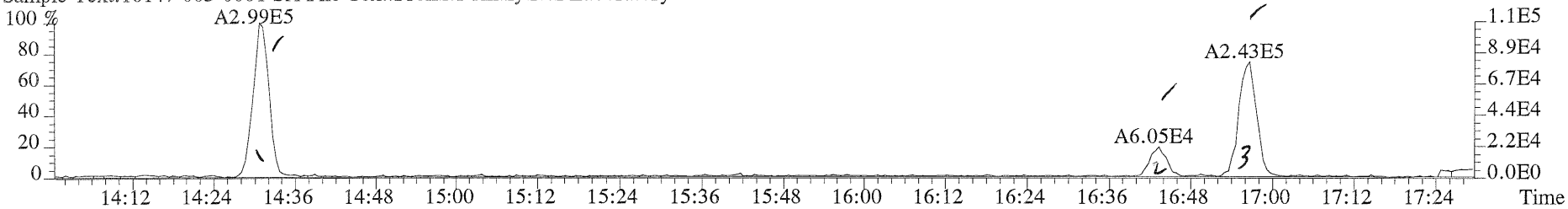
PCB-56	8.95e+06	0.73	y	33:57	0.89	339		-	-	*	Co-elute PCB 60
PCB-60	8.95e+06	0.73	y	33:57	0.89	339		-	-	*	Co-elute PCB 56
PCB-79	1.08e+05	0.70	y	34:57	1.00	3.65	J	-	-	*	
PCB-78	*	*	n	NotFnd	0.97	*		1200	1400	0.932	
PCB-81	2.30e+05	0.75	y	36:09	1.07	7.72		-	-	*	
13C-PCB-81	5.55e+07	0.81	y	36:06	0.96	2170					109
PCB-77	1.47e+06	0.72	y	36:40	1.01	46.3		-	-	*	
13C-PCB-77	6.27e+07	0.82	y	36:39	1.02	2310					116
PCB-155	*	*	n	NotFnd	1.05	*		950	890	0.626	
PCB-150	6.23e+04	1.21	y	35:24	0.96	2.24	J	-	-	*	
PCB-152	*	*	n	NotFnd	0.94	*		950	890	0.700	
PCB-145	*	*	n	NotFnd	0.94	*		950	890	0.704	
PCB-136	4.20e+06	1.27	y	36:35	0.94	153		-	-	*	
PCB-148	*	*	n	NotFnd	0.68	*		950	890	0.973	
PCB-154	4.23e+05	1.35	y	37:09	0.80	18.2		-	-	*	
13C-PCB-155	5.80e+07	1.25	y	34:12	1.15	1900					95.2
13C-PCB-111	6.57e+07	1.57	y	36:16	1.14	2170					109
13C-PCB-101	5.29e+07	1.58	y	34:37	-	9.29					
PCB-84	6.81e+06	1.55	y	34:17	0.87	291		-	-	*	Co-elute PCB 92
PCB-92	6.81e+06	1.55	y	34:17	0.87	291		-	-	*	Co-elute PCB 84
PCB-89	2.26e+05	1.60	y	34:27	0.86	9.71		-	-	*	
PCB-90	1.98e+07	1.54	y	34:38	0.98	750		-	-	*	Co-elute PCB 101
PCB-101	1.98e+07	1.54	y	34:38	0.98	750		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.12	*		1000	990	0.688	
PCB-99	8.71e+06	1.54	y	34:57	1.06	304		-	-	*	
PCB-119	6.47e+05	1.55	y	35:24	1.26	19.1		-	-	*	
PCB-83	8.68e+05	1.52	y	35:33	1.00	32.1		-	-	*	Co-elute PCB 112
PCB-112	8.68e+05	1.52	y	35:33	1.00	32.1		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.13	*		1000	990	0.683	
PCB-97	4.95e+06	1.53	y	35:53	1.06	173		-	-	*	
PCB-86	*	*	n	NotFnd	0.88	*		1000	990	0.872	
PCB-125	7.55e+06	1.55	y	36:08	1.13	247		-	-	*	Co-elute PCB 87/117
PCB-87	7.55e+06	1.55	y	36:08	1.13	247		-	-	*	Co-elute PCB 125/117
PCB-117	7.55e+06	1.55	y	36:08	1.13	247		-	-	*	Co-elute PCB 125/87
PCB-111	5.11e+05	1.48	y	36:17	1.45	13.1		-	-	*	Co-elute PCB 115
PCB-115	5.11e+05	1.48	y	36:17	1.45	13.1		-	-	*	Co-elute PCB 111
PCB-85	3.06e+06	1.54	y	36:23	1.02	112		-	-	*	Co-elute PCB 116
PCB-116	3.06e+06	1.54	y	36:23	1.02	112		-	-	*	Co-elute PCB 85
PCB-120	1.43e+05	1.46	y	36:37	1.34	3.96	J	-	-	*	
PCB-110	2.42e+07	1.56	y	36:46	1.30	692		-	-	*	
PCB-82	1.75e+06	1.50	y	37:22	0.75	86.5		-	-	*	
PCB-124	7.45e+05	1.50	y	38:00	0.99	27.9		-	-	*	
PCB-108	1.17e+06	1.49	y	38:10	0.95	45.5		-	-	*	Co-elute PCB 107
PCB-107	1.17e+06	1.49	y	38:10	0.95	45.5		-	-	*	Co-elute PCB 108
PCB-123	2.94e+05	1.46	y	38:20	1.08	10.4		-	-	*	
13C-PCB-123	5.20e+07	1.55	y	38:18	0.97	2330					117
PCB-118	1.54e+07	1.52	y	38:30	0.91	611		-	-	*	Co-elute PCB 106
PCB-106	1.54e+07	1.52	y	38:30	0.91	611		-	-	*	Co-elute PCB 118
13C-PCB-118	5.53e+07	1.57	y	38:28	1.06	2280					114
PCB-114	3.90e+05	1.35	y	39:06	0.97	14.7		-	-	*	
13C-PCB-114	5.47e+07	1.56	y	39:04	1.04	2300					115
PCB-122	2.03e+05	1.51	y	39:13	0.95	7.97		-	-	*	
PCB-105	6.26e+06	1.50	y	39:55	0.94	248		-	-	*	
13C-PCB-105	5.34e+07	1.55	y	39:54	1.03	2250					113

PCB-127	*	*	n	NotFnd	0.86	*		810	990	0.812		
PCB-126	1.08e+05	1.55	y	42:02	0.98	4.09		-	-	*		
13C-PCB-126	5.40e+07	1.56	y	42:00	0.91	2580					129	
PCB-151	5.69e+06	1.26	y	37:45	0.82	245		-	-	*		
PCB-135	2.99e+06	1.21	y	37:57	0.88	120		-	-	*		
PCB-144	1.20e+06	1.30	y	38:03	0.82	51.6		-	-	*		
PCB-147	3.83e+05	1.27	y	38:12	0.86	15.6		-	-	*		
PCB-139	2.09e+07	1.24	y	38:25	0.90	811		-	-	*	Co-elute PCB 149	
PCB-149	2.09e+07	1.24	y	38:25	0.90	811		-	-	*	Co-elute PCB 139	
PCB-140	1.30e+05	1.29	y	38:36	0.83	5.47		-	-	*		
PCB-143	1.13e+06	1.16	y	39:03	0.82	48.1		-	-	*	Co-elute PCB 134	
PCB-134	1.13e+06	1.16	y	39:03	0.82	48.1		-	-	*	Co-elute PCB 143	
PCB-131	5.99e+05	1.24	y	39:17	0.83	25.4		-	-	*	Co-elute PCB 133	
PCB-133	5.99e+05	1.24	y	39:17	0.83	25.4		-	-	*	Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.71	*		910	940	0.895		
PCB-165	3.65e+06	1.22	y	39:41	0.97	132		-	-	*	Co-elute PCB 146	
PCB-146	3.65e+06	1.22	y	39:41	0.97	132		-	-	*	Co-elute PCB 165	
PCB-161	7.20e+06	1.21	y	39:55	0.92	274		-	-	*	Co-elute PCB 132	
PCB-132	7.20e+06	1.21	y	39:55	0.92	274		-	-	*	Co-elute PCB 161	
PCB-153	2.65e+07	1.25	y	40:04	0.95	983		-	-	*		
PCB-168	4.23e+04	1.22	y	40:15	1.05	1.41	J	-	-	*		
PCB-141	4.12e+06	1.20	y	40:45	0.81	178		-	-	*		
PCB-137	7.82e+05	1.28	y	41:06	0.76	36.3		-	-	*		
PCB-130	1.13e+06	1.22	y	41:13	0.74	53.4		-	-	*		
PCB-138	2.74e+07	1.25	y	41:32	1.10	875		-	-	*	Co-elute PCB 163/164	
PCB-163	2.74e+07	1.25	y	41:32	1.10	875		-	-	*	Co-elute PCB 138/164	
PCB-164	2.74e+07	1.25	y	41:32	1.10	875		-	-	*	Co-elute PCB 138/163	
PCB-158	2.96e+06	1.24	y	41:46	1.06	98.4		-	-	*	Co-elute PCB 160	
PCB-160	2.96e+06	1.24	y	41:46	1.06	98.4		-	-	*	Co-elute PCB 158	
PCB-129	7.40e+05	1.29	y	42:00	0.66	39.2		-	-	*		
PCB-166	8.47e+04	1.10	y	42:28	0.99	3.00	J	-	-	*		
PCB-159	3.86e+05	1.23	y	42:48	1.05	12.9		-	-	*		
PCB-128	3.36e+06	1.21	y	43:01	0.90	131		-	-	*	Co-elute PCB 162	
PCB-162	3.36e+06	1.21	y	43:01	0.90	131		-	-	*	Co-elute PCB 128	
PCB-167	1.10e+06	1.23	y	43:24	0.94	39.5		-	-	*		
13C-PCB-167	5.93e+07	1.24	y	43:23	1.12	2300					115	
PCB-156	2.59e+06	1.23	y	44:37	0.99	91.4		-	-	*		
13C-PCB-156	5.70e+07	1.24	y	44:37	1.07	2330					117	
PCB-157	4.96e+05	1.23	y	44:53	0.94	18.3		-	-	*		
13C-PCB-157	5.73e+07	1.24	y	44:52	1.10	2280					114	
PCB-169	*	*	n	NotFnd	0.95	*		910	940	0.603		
13C-PCB-169	5.40e+07	1.24	y	46:44	0.98	2400					120	

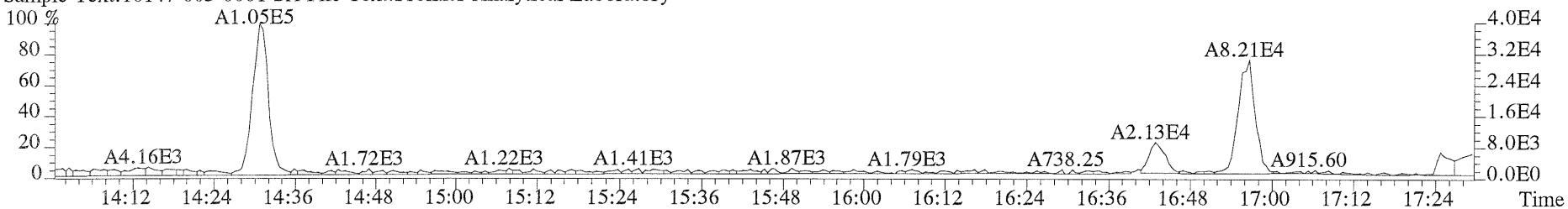
PCB-188	*	*	n	NotFnd	1.11	*	805	710	0.478		
13C-PCB-188	5.40e+07	1.07	y	39:41	1.23	1910				95.5	
PCB-184	*	*	n	NotFnd	1.25	*	805	710	0.424		
PCB-179	3.79e+06	1.07	y	40:51	1.23	129	-	-	*		
PCB-176	1.22e+06	1.06	y	41:18	1.19	42.6	-	-	*		
PCB-186	*	*	n	NotFnd	1.18	*	805	710	0.449		
PCB-178	1.32e+06	1.07	y	42:20	0.85	64.7	-	-	*		
PCB-175	2.60e+05	1.09	y	42:40	0.89	12.2	-	-	*		
PCB-187	8.33e+06	1.04	y	42:48	0.95	367	-	-	*	Co-elute PCB 182	
PCB-182	8.33e+06	1.04	y	42:48	0.95	367	-	-	*	Co-elute PCB 187	
PCB-183	4.16e+06	1.07	y	43:08	0.95	183	-	-	*		
PCB-185	7.45e+05	1.07	y	43:44	0.86	36.3	-	-	*		
PCB-174	6.33e+06	1.05	y	44:06	0.89	296	-	-	*		
PCB-181	*	*	n	NotFnd	0.82	*	805	710	0.646		
PCB-177	3.58e+06	1.07	y	44:20	0.74	201	-	-	*		
PCB-171	1.72e+06	1.02	y	44:37	0.82	87.1	-	-	*		
PCB-173	1.28e+05	1.00	y	45:01	0.73	7.31	-	-	*		
PCB-172	1.01e+06	1.08	y	45:26	0.75	56.4	-	-	*		
PCB-192	*	*	n	NotFnd	0.96	*	805	710	0.549		
PCB-180	1.29e+07	1.04	y	45:46	0.98	549	-	-	*		
PCB-193	9.00e+05	1.09	y	45:57	1.05	35.7	-	-	*		
PCB-191	3.30e+05	1.05	y	46:09	0.97	14.1	-	-	*		
PCB-170	5.25e+06	1.05	y	47:03	0.64	340	-	-	*		
PCB-190	1.56e+06	1.10	y	47:13	0.88	73.5	-	-	*		
PCB-189	2.68e+05	0.90	y	48:26	1.10	11.7	-	-	*		
13C-PCB-189	4.18e+07	1.05	y	48:24	0.90	2020				101	
PCB-202	5.46e+05	0.90	y	44:48	0.95	29.3	-	-	*		
PCB-201	4.06e+05	0.82	y	45:16	0.92	22.3	-	-	*		
PCB-204	*	*	n	NotFnd	0.92	*	680	680	0.744		
PCB-197	1.42e+05	0.90	y	45:39	0.93	7.78	-	-	*		
PCB-200	3.43e+05	0.81	y	46:25	0.88	19.7	-	-	*		
PCB-198	9.70e+04	0.89	y	47:35	0.60	8.20	-	-	*		
PCB-199	1.89e+06	0.85	y	47:41	0.55	173	-	-	*		
PCB-203	2.22e+06	0.88	y	47:56	0.64	175	-	-	*	Co-elute PCB 196	
PCB-196	2.22e+06	0.88	y	47:56	0.64	175	-	-	*	Co-elute PCB 203	
13C-PCB-202	3.93e+07	0.90	y	44:47	1.00	1710				85.6	
13C-PCB-178	3.81e+07	1.07	y	42:19	0.84	1980				99.2	
13C-PCB-138	4.58e+07	1.24	y	41:31	-	9.38					
PCB-195	7.65e+05	0.86	y	49:02	0.75	55.2	-	-	*		
PCB-194	1.95e+06	0.87	y	49:49	0.76	138	-	-	*		
PCB-205	1.16e+05	0.90	y	50:05	1.00	6.22	-	-	*		
13C-PCB-205	3.70e+07	0.89	y	50:03	1.27	2060				103	
PCB-208	2.36e+05	1.42	y	49:09	0.93	13.0	-	-	*		
13C-PCB-208	3.90e+07	0.79	y	49:08	1.49	1850				92.7	
PCB-207	1.20e+05	1.28	y	49:26	1.00	7.08	-	-	*		
PCB-206	7.13e+05	1.39	y	51:17	0.99	49.9	-	-	*		
13C-PCB-206	2.87e+07	0.79	y	51:15	1.02	1990				99.7	
PCB-209	3.44e+05	1.07	y	52:27	1.06	16.8	-	-	*		
13C-PCB-209	3.87e+07	1.18	y	52:27	1.58	1740				87.0	
13C-PCB-194	2.82e+07	0.91	y	49:49	-	10.7					

Analyst: _____ Date: 10/7/16

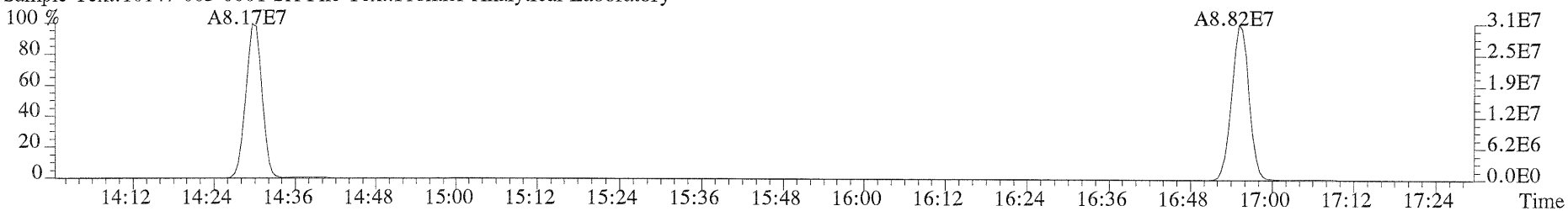
File:28SEP16Y #1-783 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:10 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



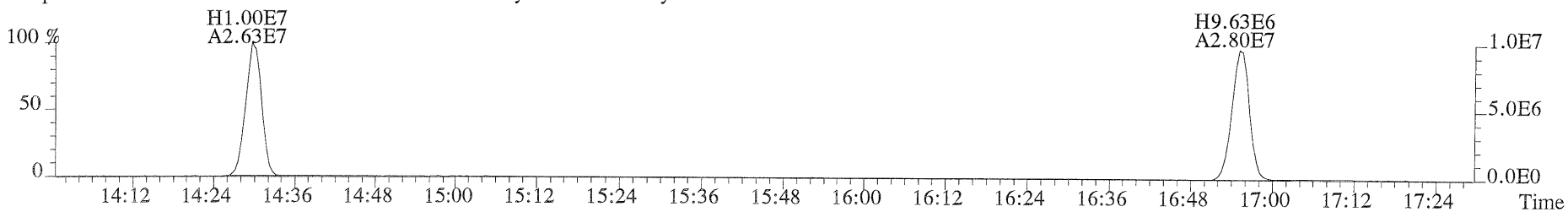
File:28SEP16Y #1-783 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:10 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



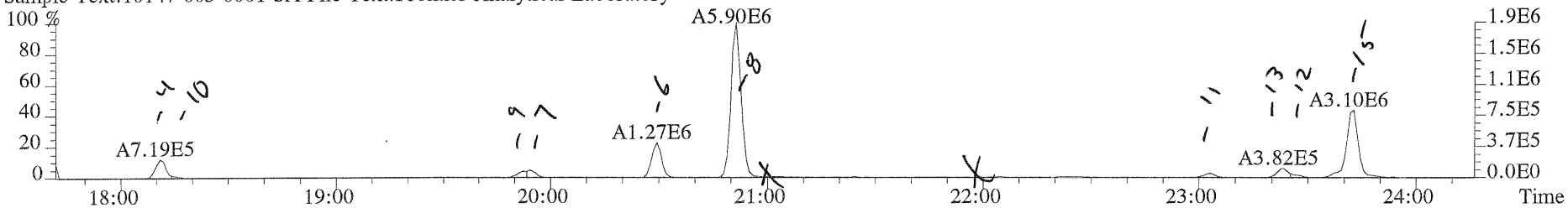
File:28SEP16Y #1-783 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:10 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



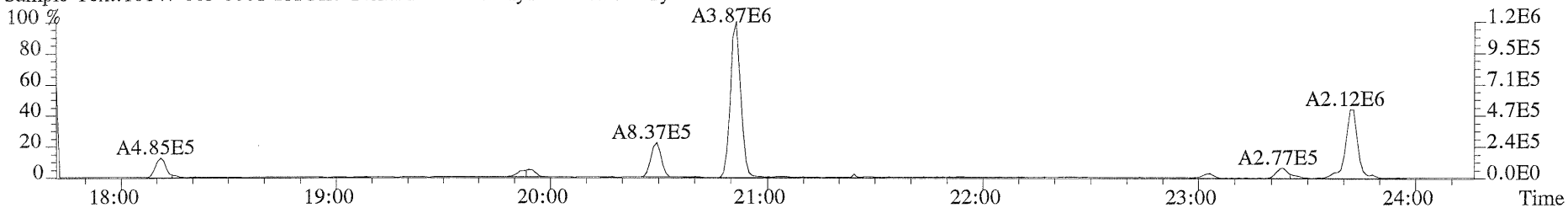
File:28SEP16Y #1-783 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:10 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



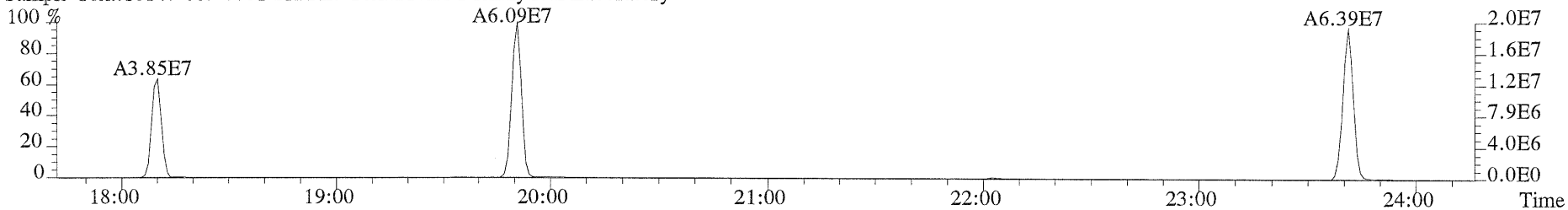
File:28SEP16Y #1-509 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



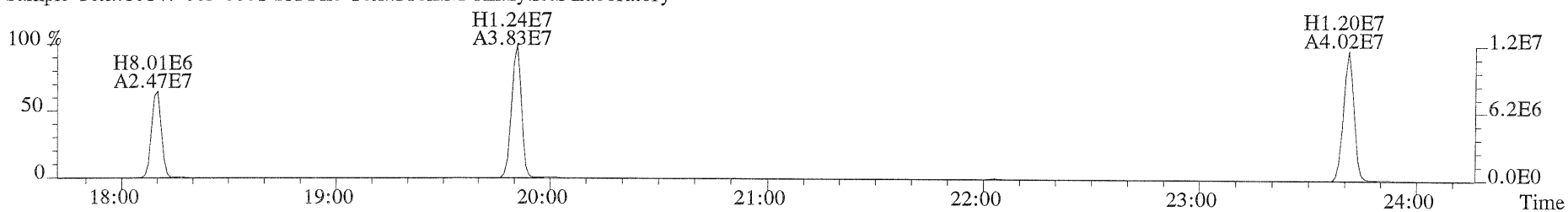
File:28SEP16Y #1-509 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



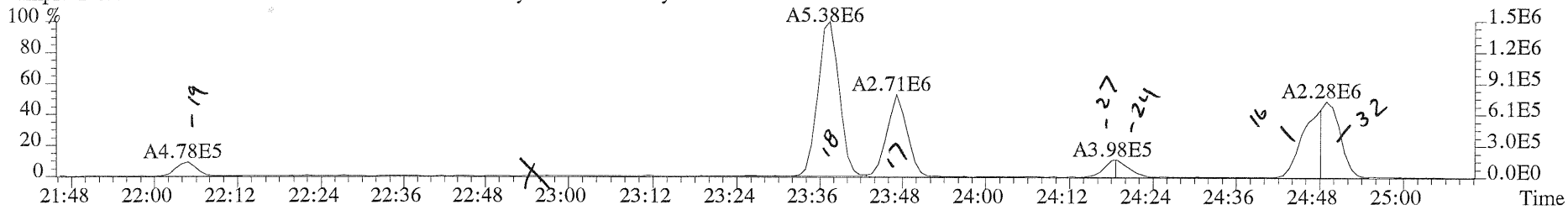
File:28SEP16Y #1-509 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



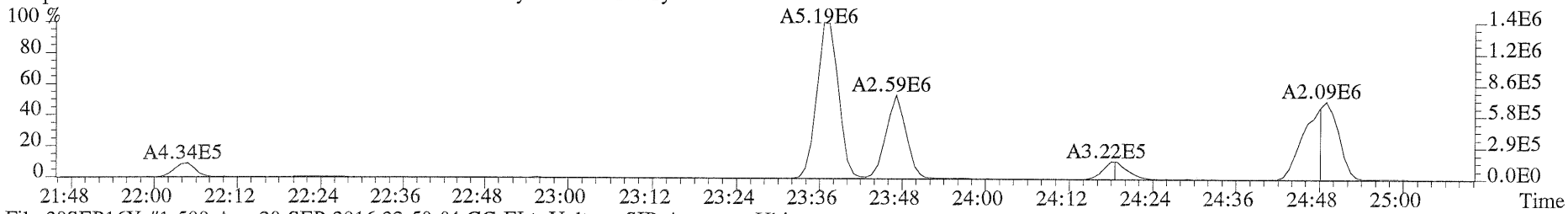
File:28SEP16Y #1-509 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



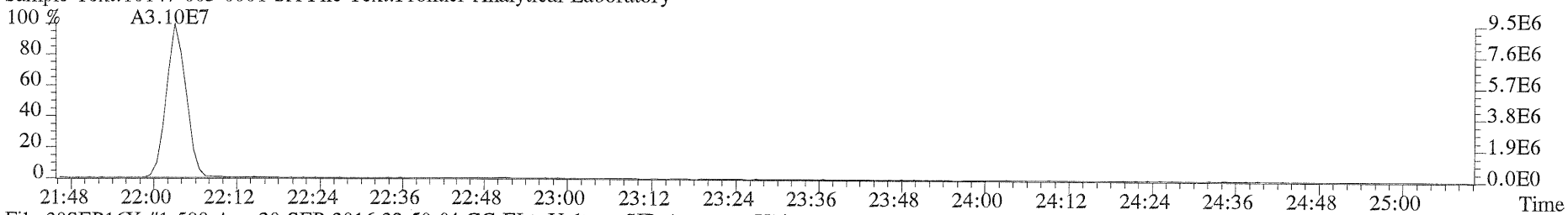
File:28SEP16Y #1-509 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



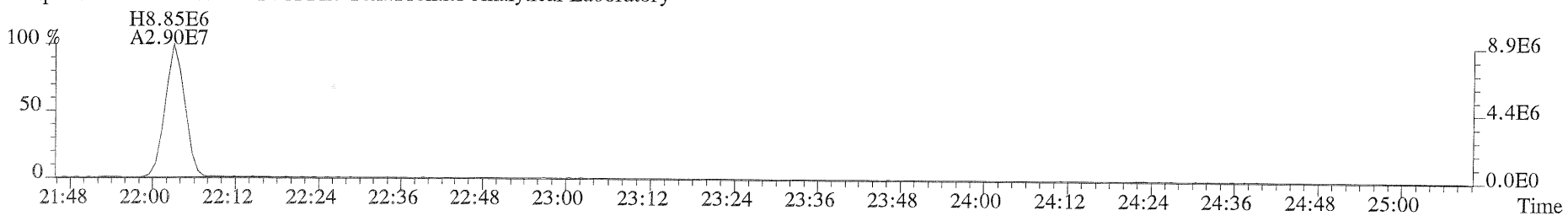
File:28SEP16Y #1-509 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



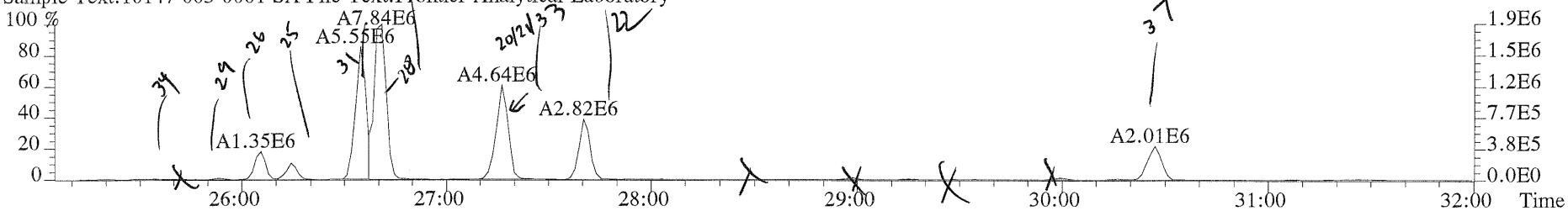
File:28SEP16Y #1-509 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



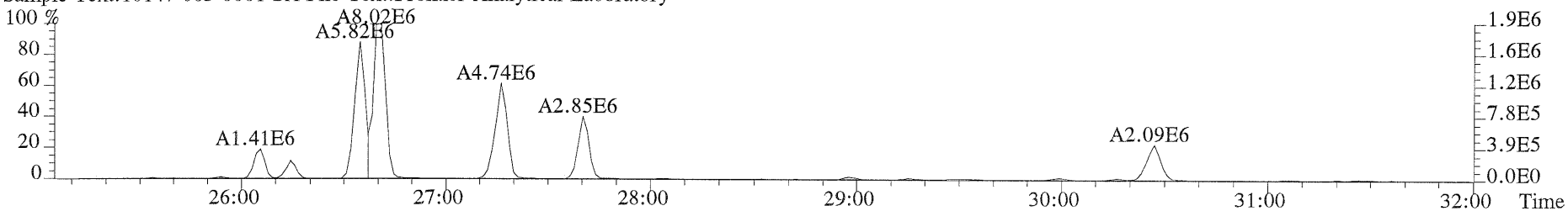
File:28SEP16Y #1-509 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



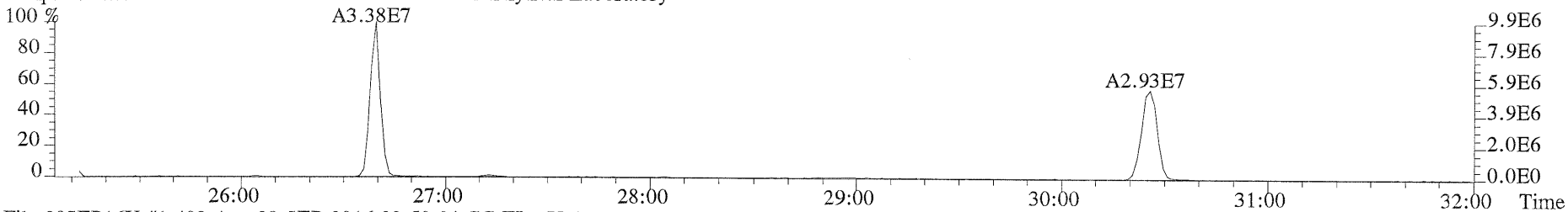
File:28SEP16Y #1-403 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



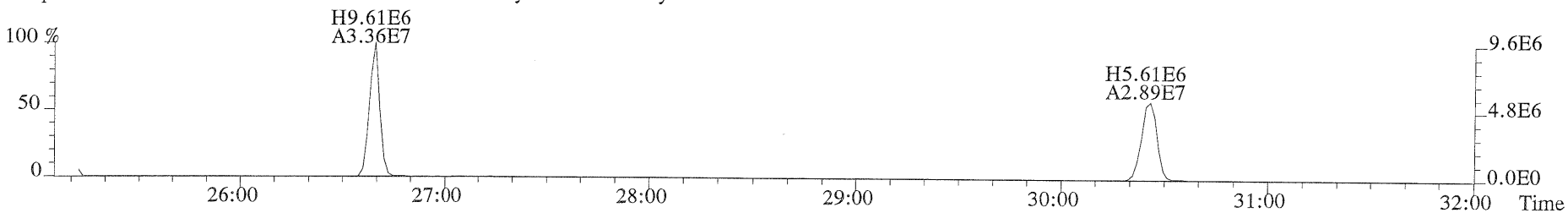
File:28SEP16Y #1-403 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



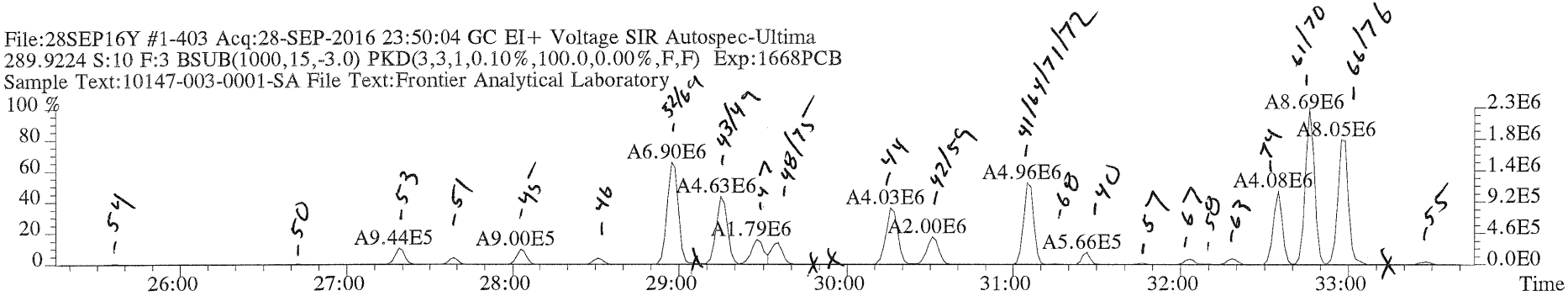
File:28SEP16Y #1-403 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



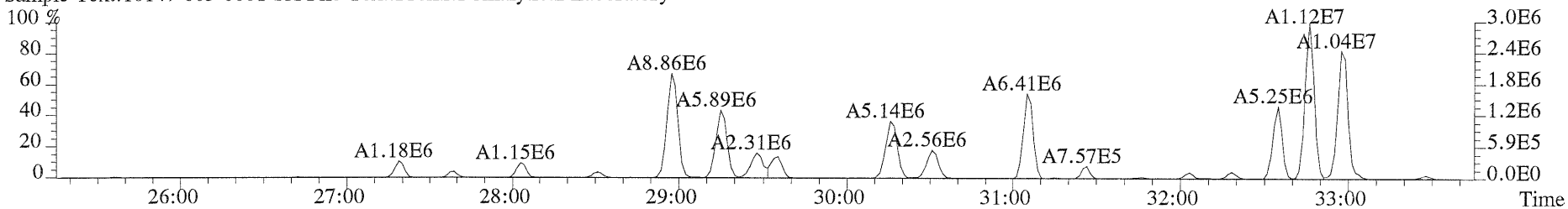
File:28SEP16Y #1-403 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



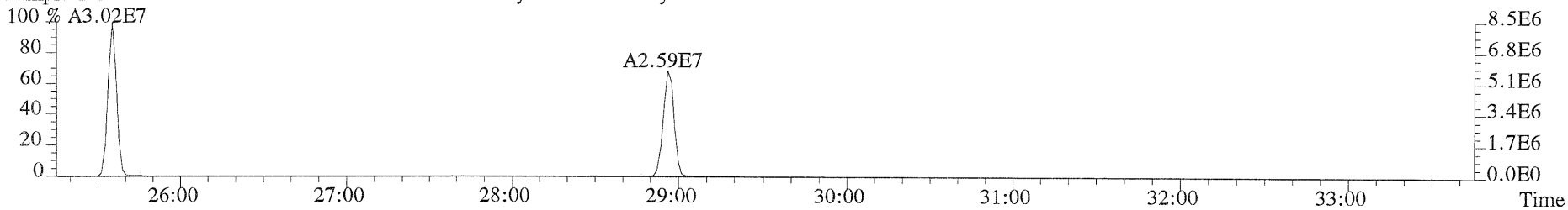
File:28SEP16Y #1-403 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



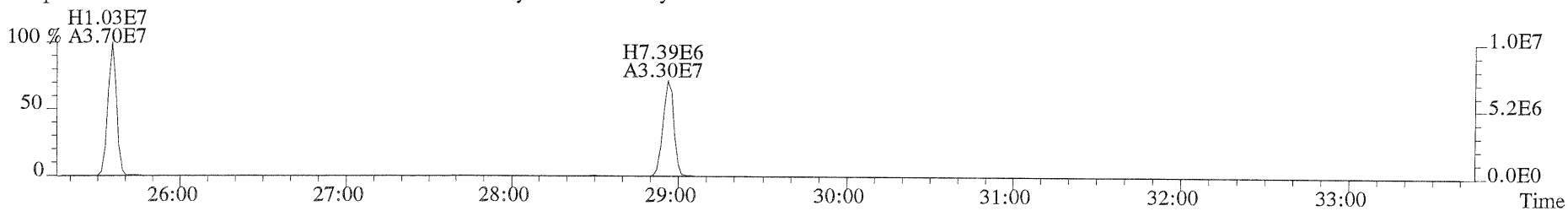
File:28SEP16Y #1-403 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-403 Acq:28-SEP-2016 23:50:04 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:10147-003-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-403 Acq:28-SEP-2016 23:50:04 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:10147-003-0001-SA File Text:Frontier Analytical Laboratory



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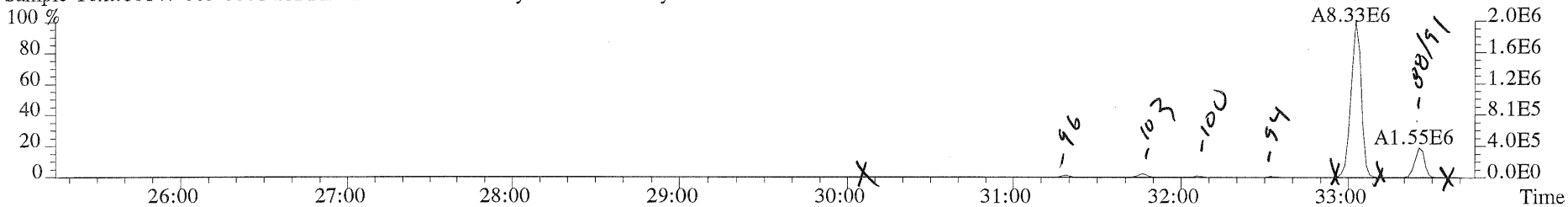
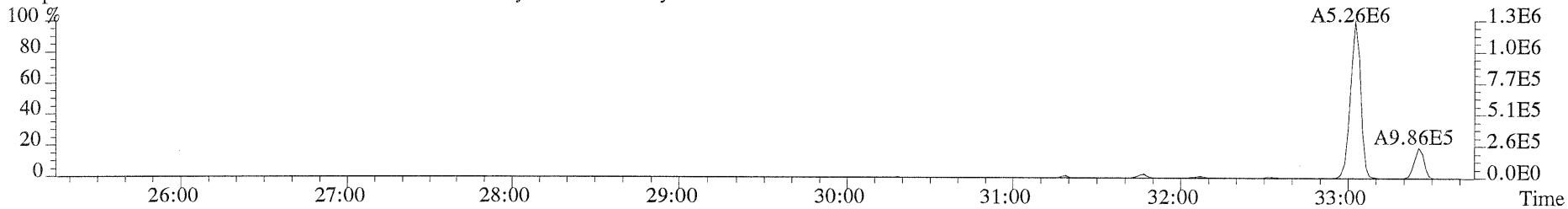
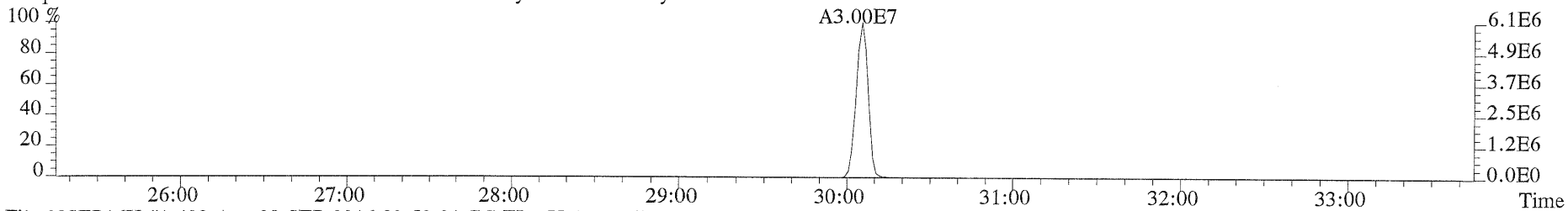
325.8804 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



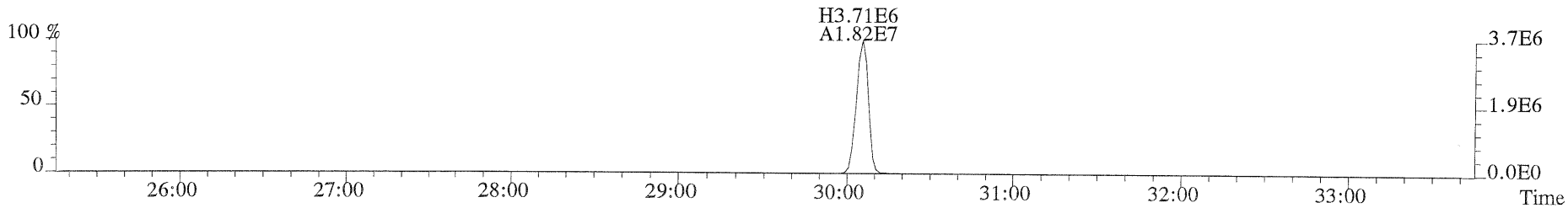
File:28SEP16Y #1-403 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



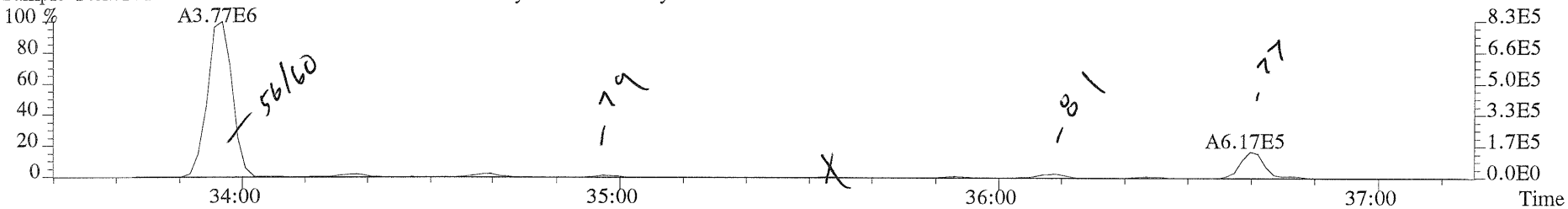
File:28SEP16Y #1-403 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



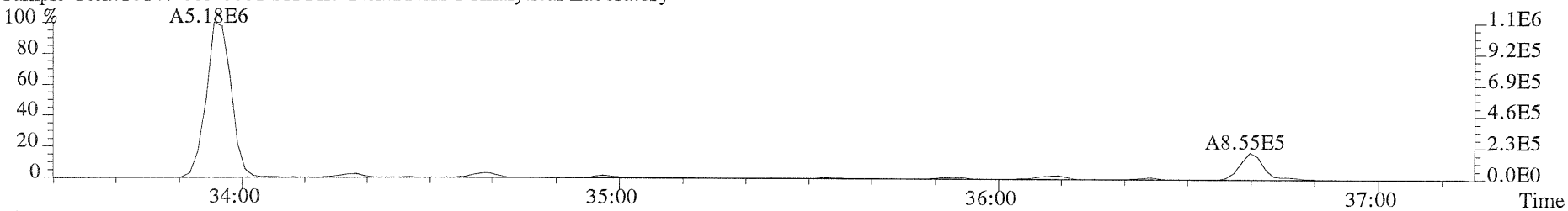
File:28SEP16Y #1-403 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



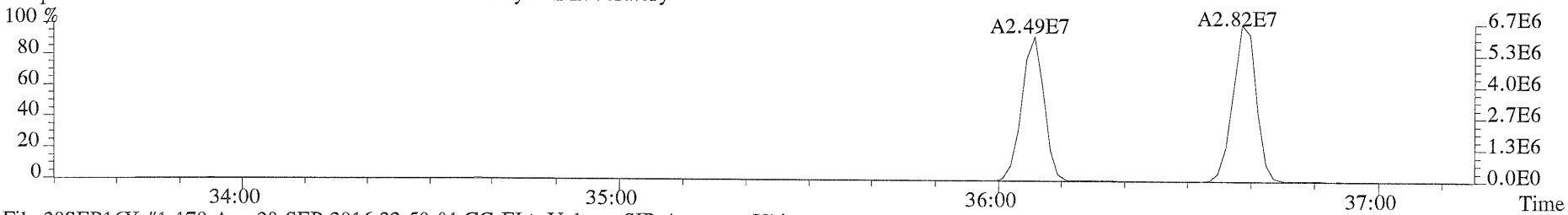
File:28SEP16Y #1-179 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



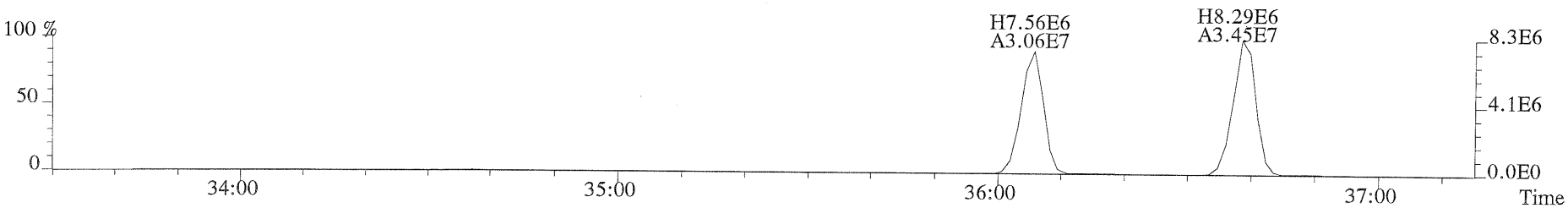
File:28SEP16Y #1-179 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



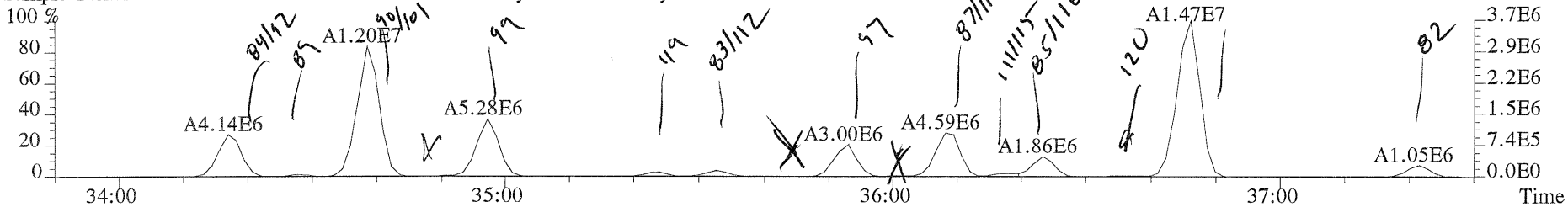
File:28SEP16Y #1-179 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



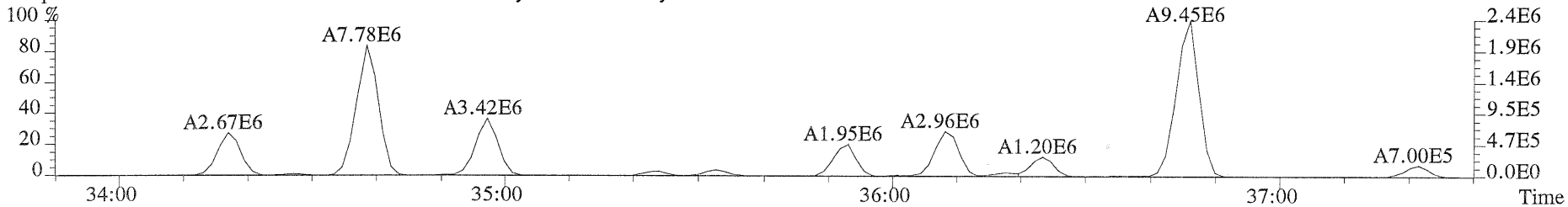
File:28SEP16Y #1-179 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



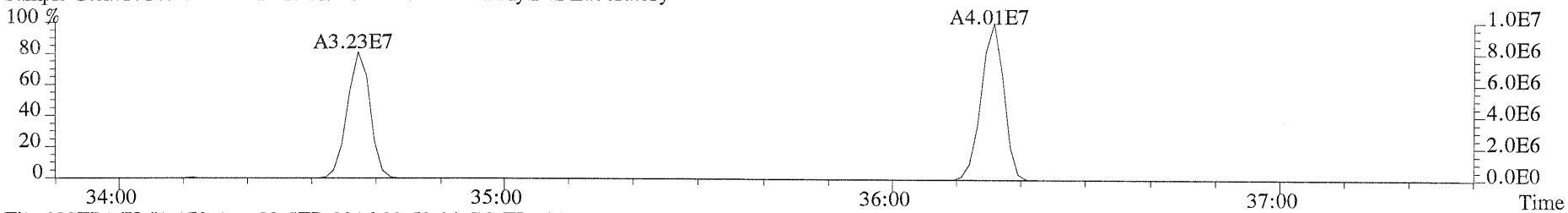
File:28SEP16Y #1-179 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



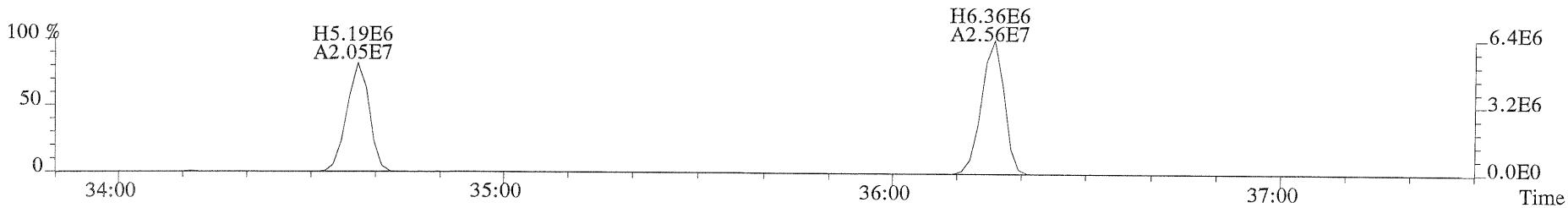
File:28SEP16Y #1-179 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



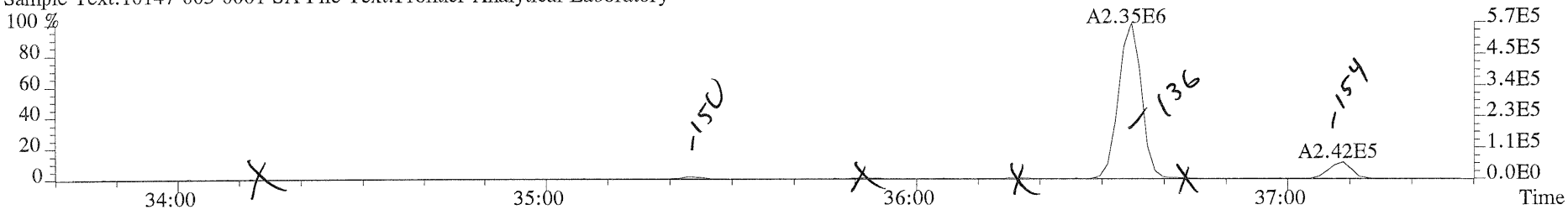
File:28SEP16Y #1-179 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



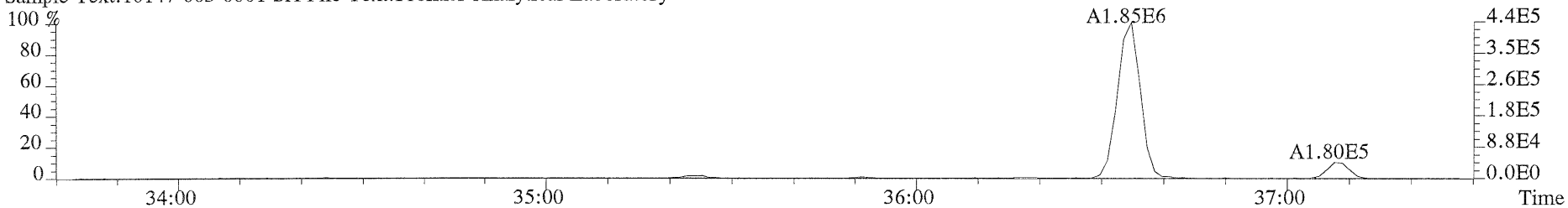
File:28SEP16Y #1-179 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



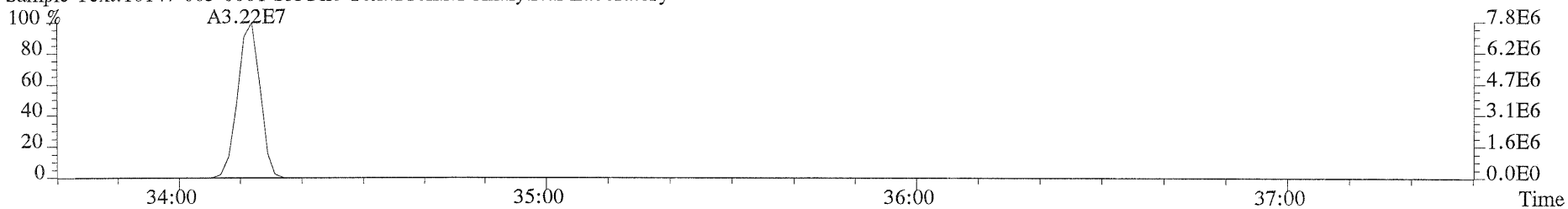
File:28SEP16Y #1-179 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



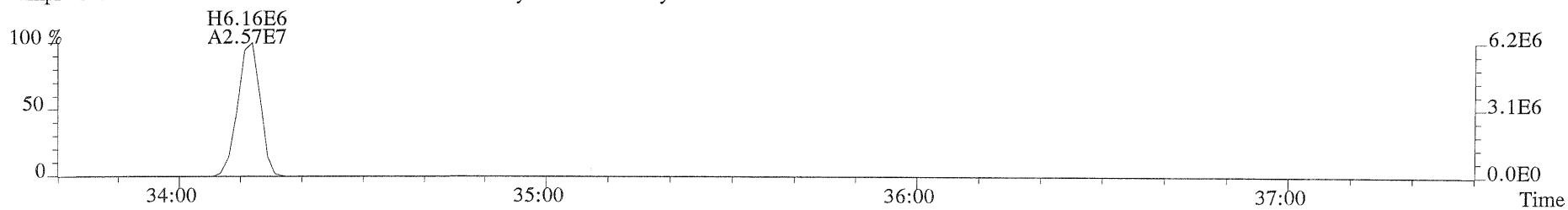
File:28SEP16Y #1-179 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



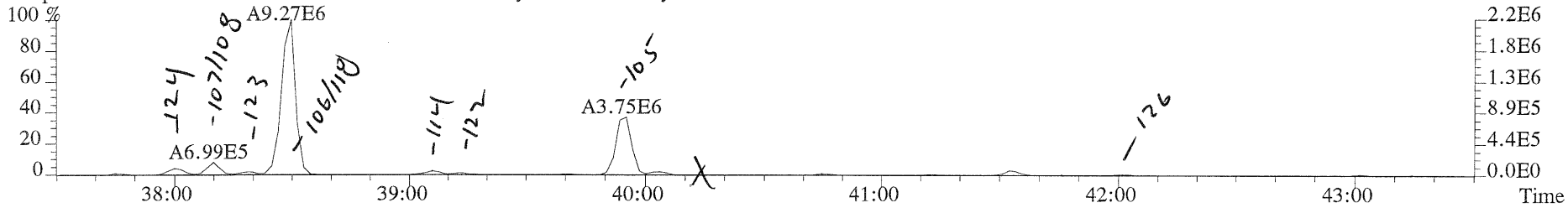
File:28SEP16Y #1-179 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



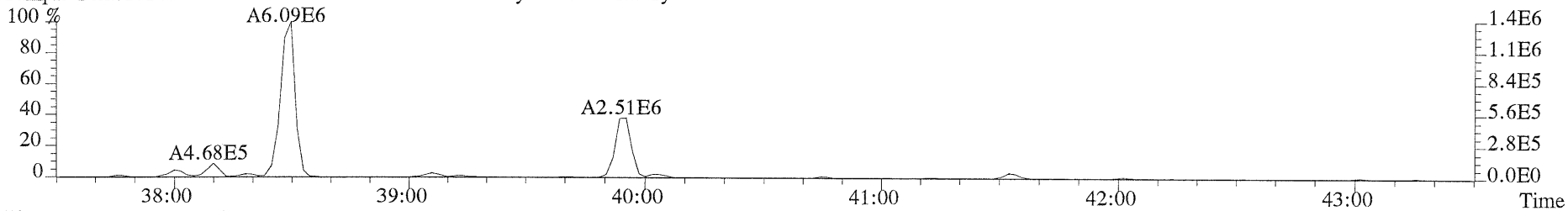
File:28SEP16Y #1-179 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



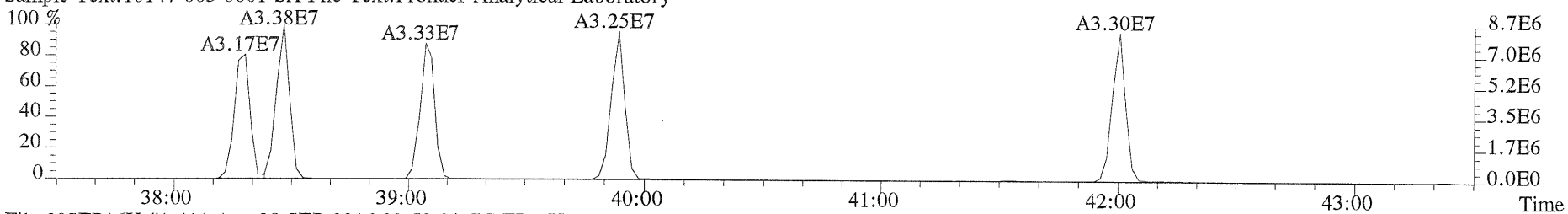
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



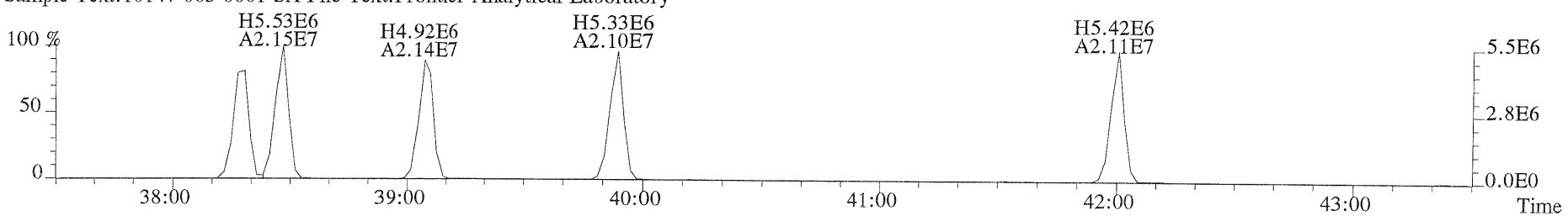
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



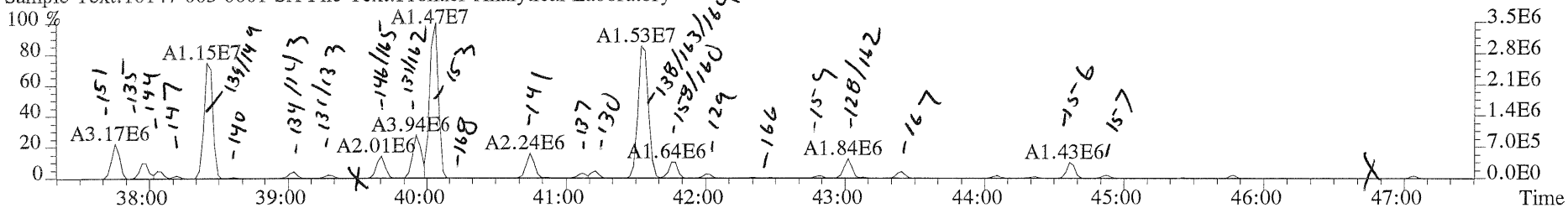
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



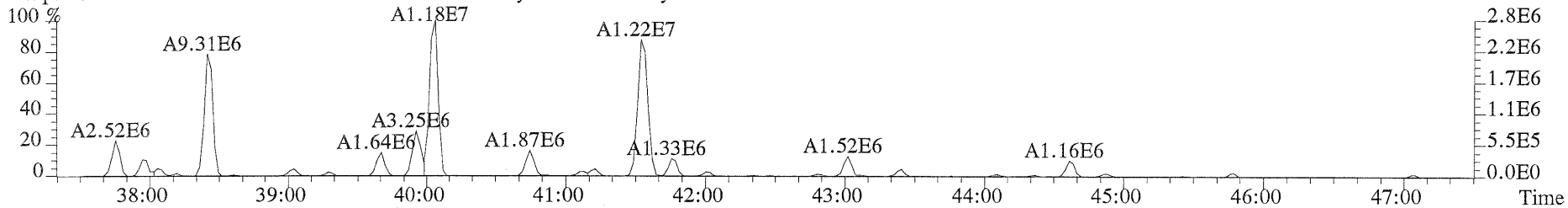
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



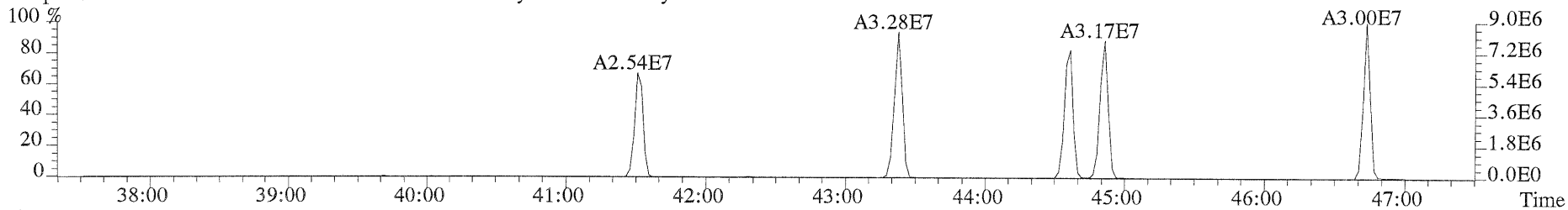
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



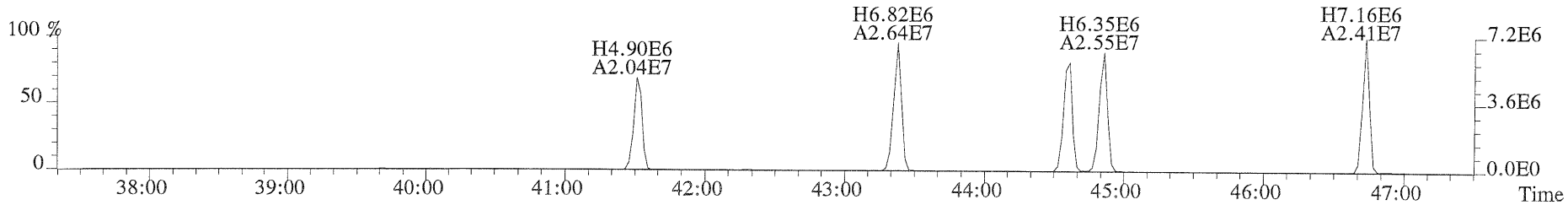
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



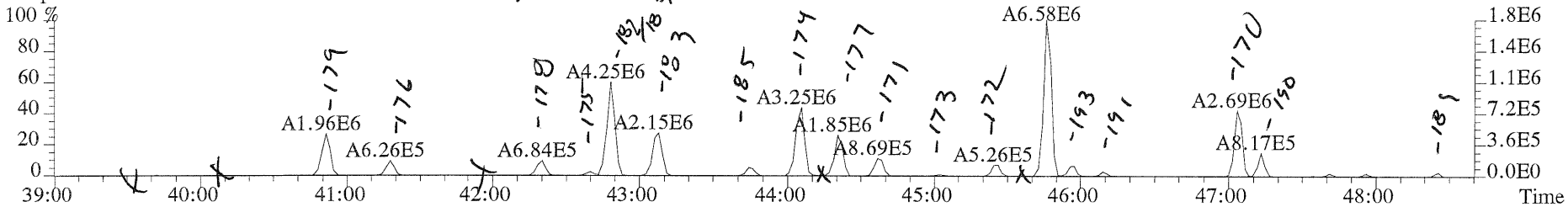
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



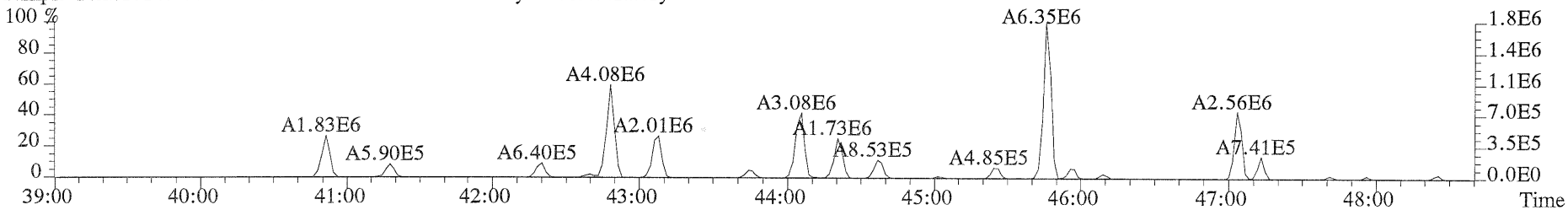
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



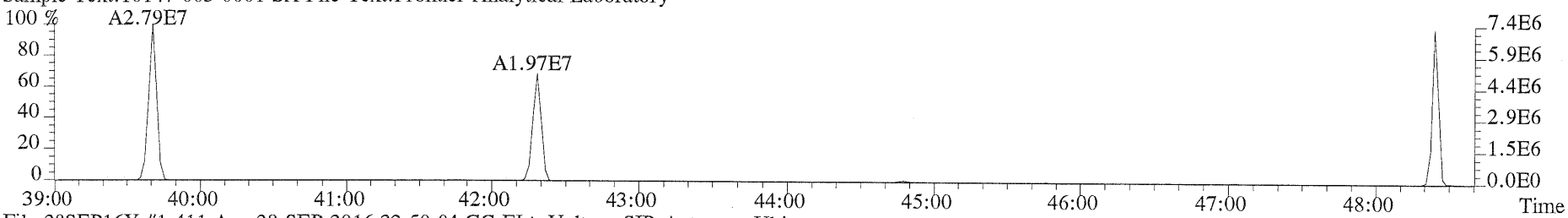
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



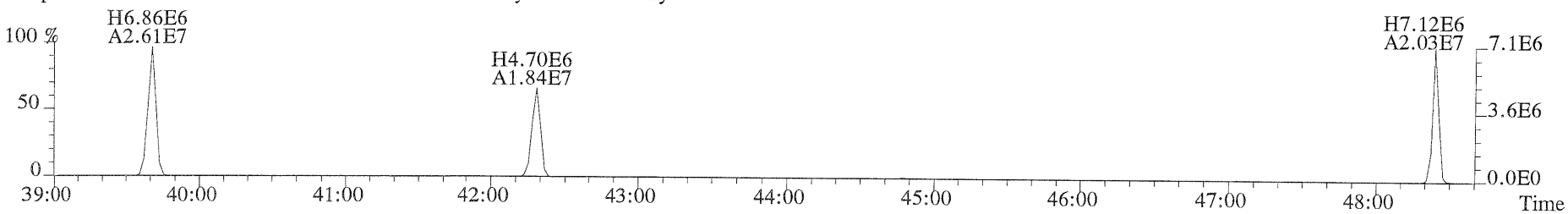
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



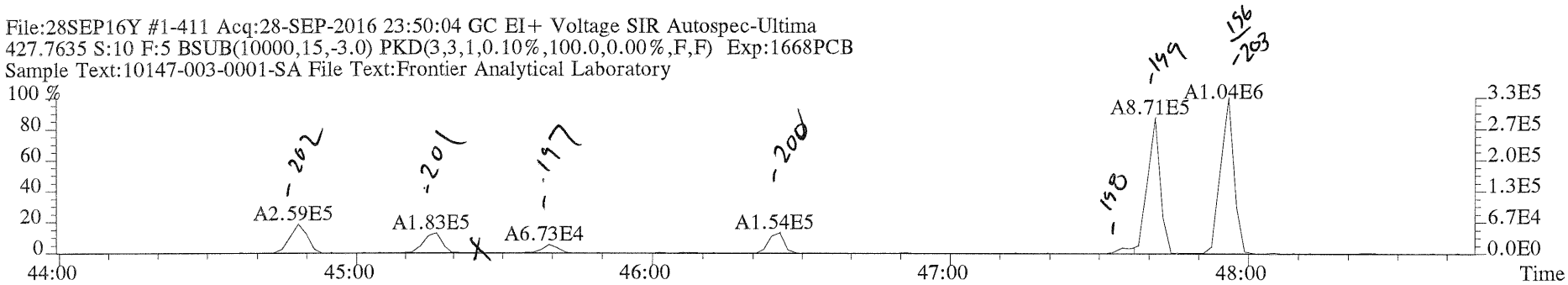
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



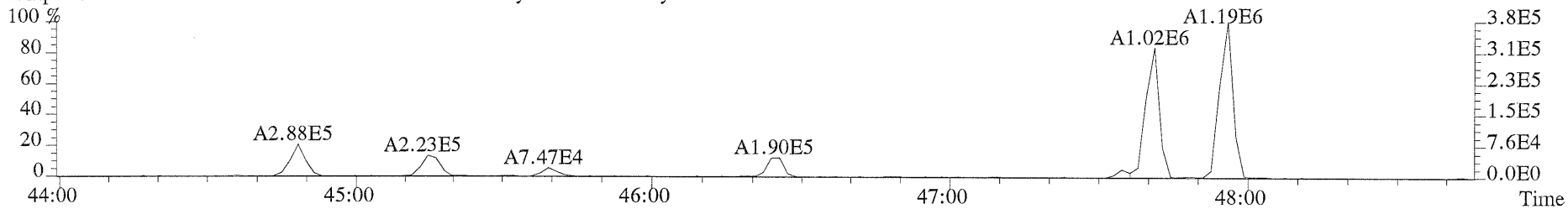
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



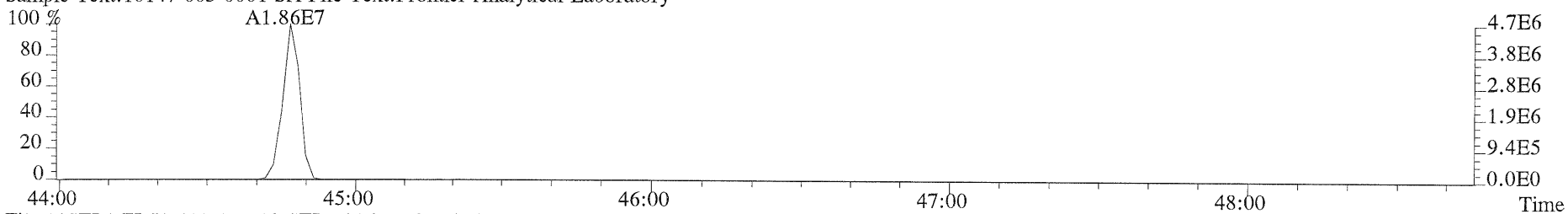
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



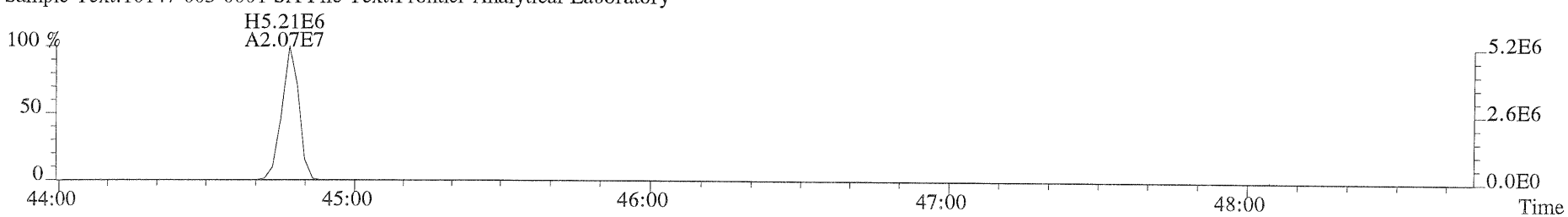
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



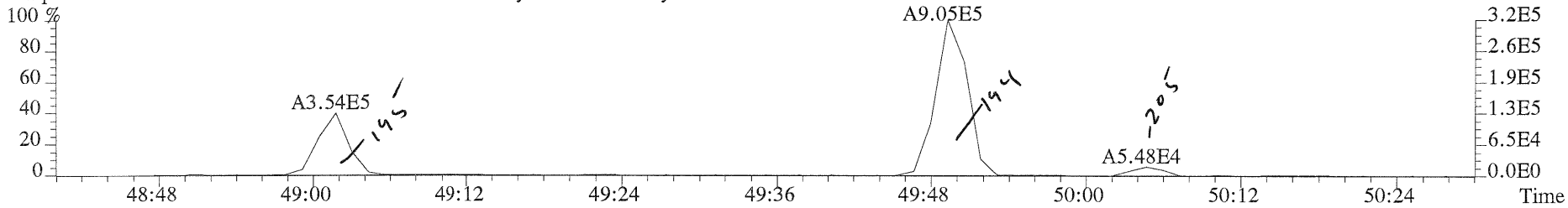
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



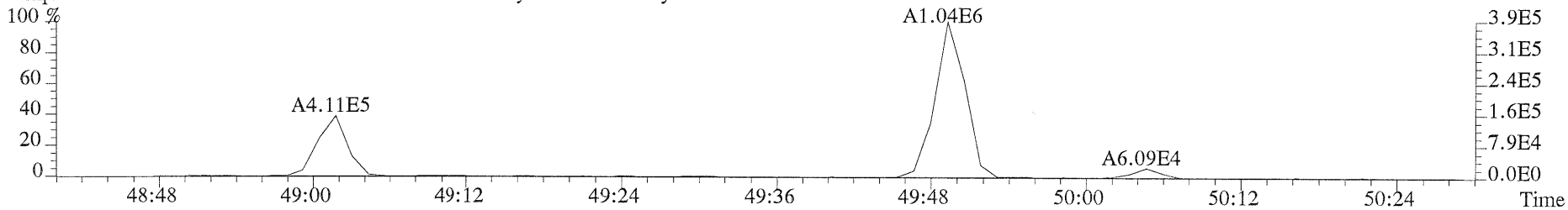
File:28SEP16Y #1-411 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



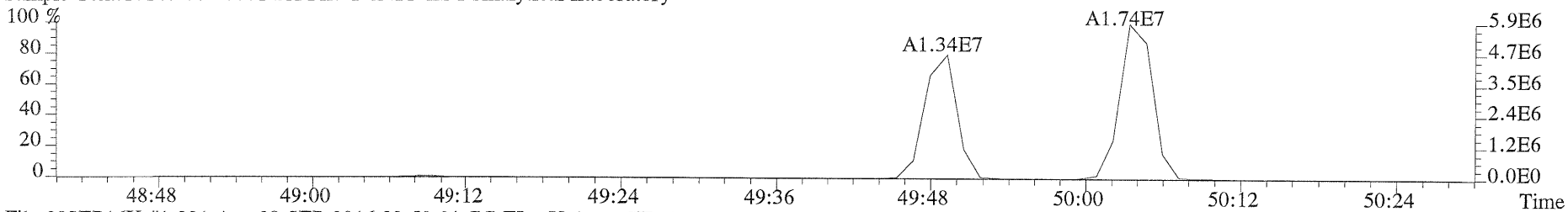
File:28SEP16Y #1-221 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



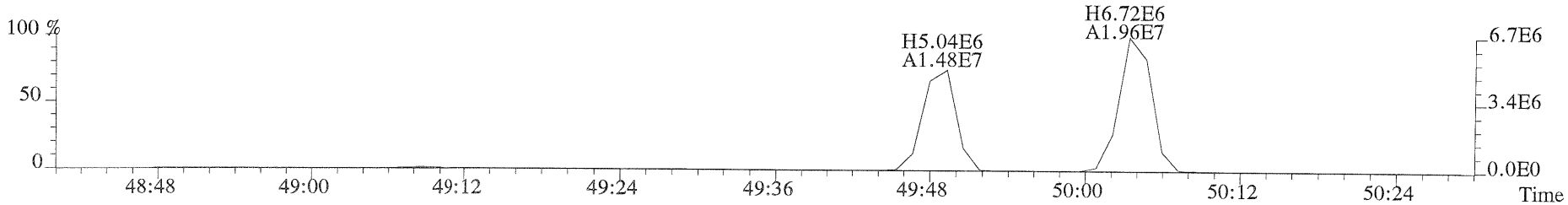
File:28SEP16Y #1-221 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



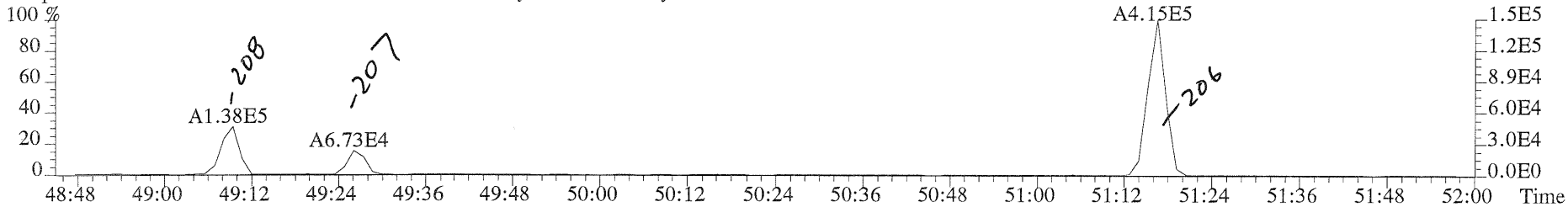
File:28SEP16Y #1-221 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



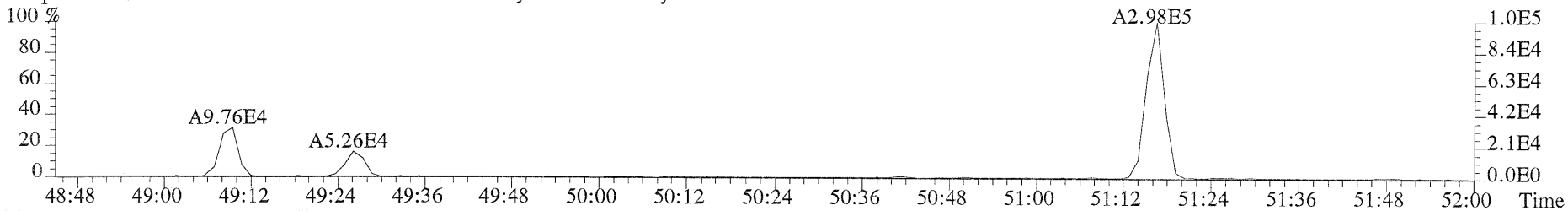
File:28SEP16Y #1-221 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



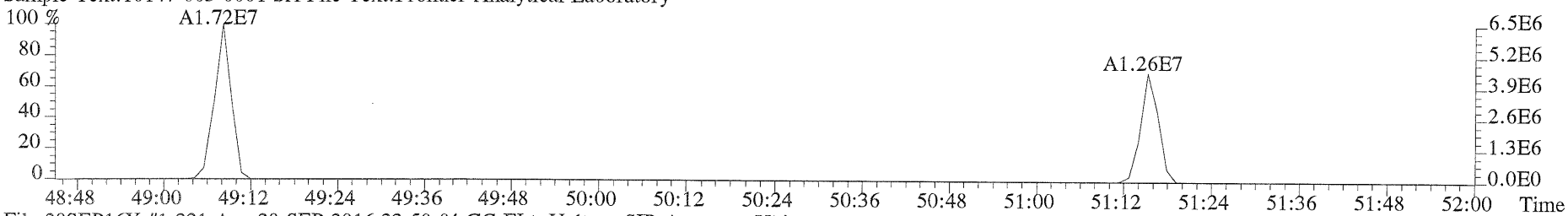
File:28SEP16Y #1-221 Acq:28-SEP-2016 23:50:04 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 23:50:04 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:10147-003-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 23:50:04 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:10147-003-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 23:50:04 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
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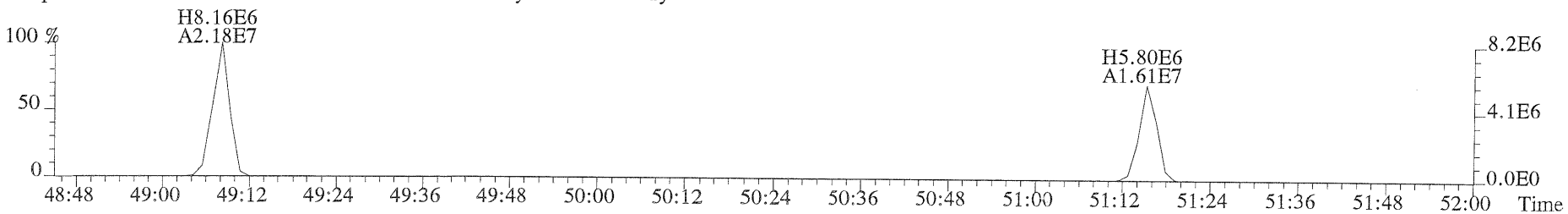

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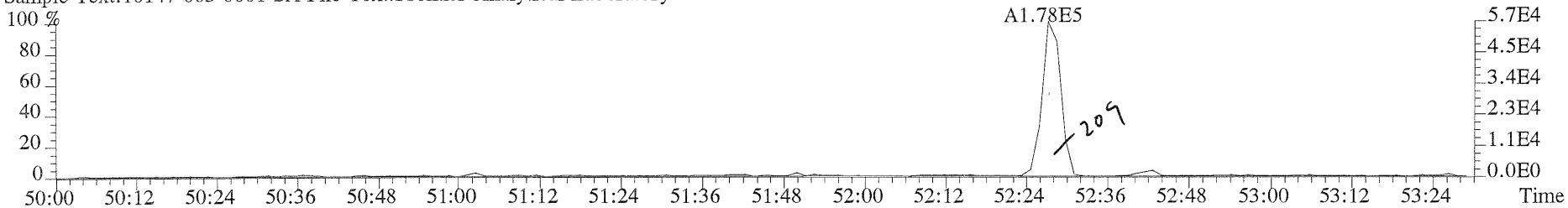
497.6826 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



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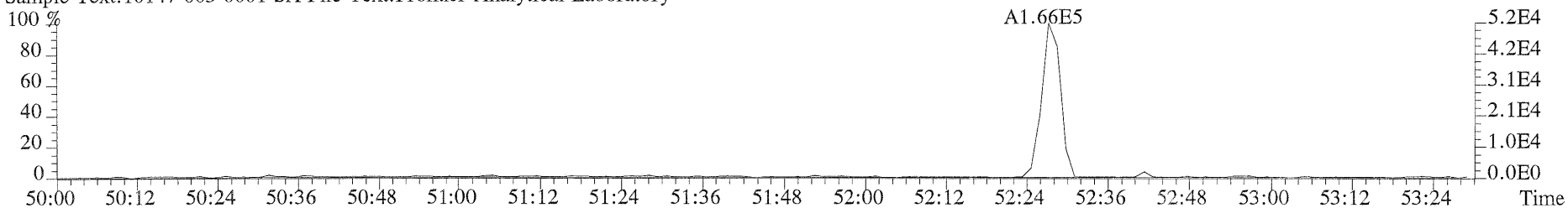
499.6797 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



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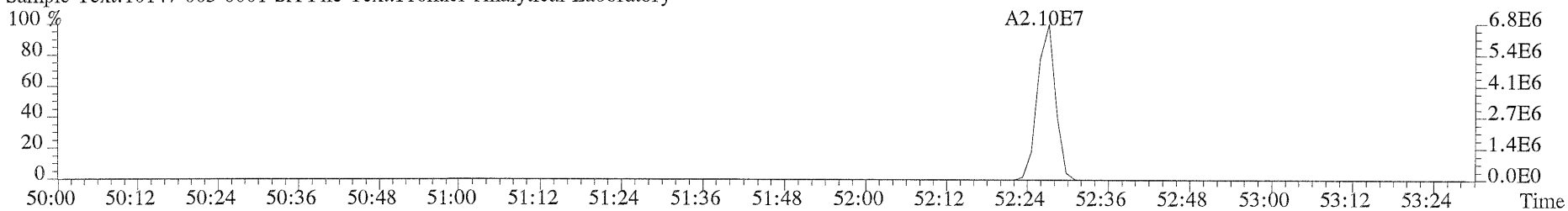
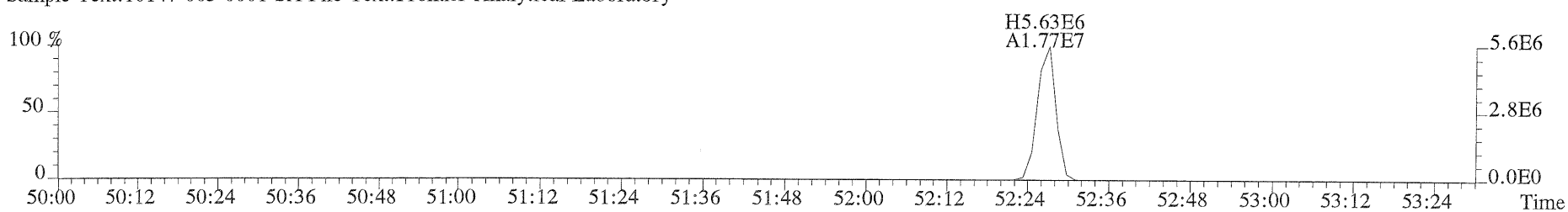
Sample Text:10147-003-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 23:50:04 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:10147-003-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10147-006-0001-SA Filename: 28SEP16Y Sam:11 Acquired: 29-SEP-16 00:46:31 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-SC-ENR-CA-CORE ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.010

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	5.65e+05	3.13 y	14:31	1.00	14.3		-	-	*	
13C-PCB-1	7.88e+07	3.13 y	14:29	1.29	1580					79.2
PCB-2	1.67e+05	3.27 y	16:44	0.91	4.43		-	-	*	
PCB-3	5.55e+05	3.02 y	16:56	0.96	13.4		-	-	*	
13C-PCB-3	8.62e+07	3.18 y	16:55	1.26	1770					88.7
PCB-4	1.06e+06	1.36 y	18:11	0.95	47.6		-	-	*	
PCB-10	9.49e+04	1.62 y	18:15	1.14	2.74	J	-	-	*	
13C-PCB-4	4.66e+07	1.56 y	18:10	0.64	1880					94.0
PCB-9	3.41e+05	1.48 y	19:53	1.21	9.29		-	-	*	
PCB-7	3.91e+05	1.41 y	19:55	1.16	11.1		-	-	*	
PCB-6	2.38e+06	1.42 y	20:30	1.14	68.8		-	-	*	
PCB-8	7.78e+06	1.51 y	20:52	1.15	224		-	-	*	
PCB-5	*	* n	NotFnd	1.17	*		2100	1900	0.947	
PCB-14	*	* n	NotFnd	1.14	*		2100	1900	0.971	
PCB-11	6.63e+05	1.50 y	23:03	1.10	19.9		-	-	*	
PCB-13	7.94e+05	1.53 y	23:24	1.08	24.3		-	-	*	
PCB-12	1.67e+05	1.58 y	23:26	1.17	4.74		-	-	*	
PCB-15	5.65e+06	1.47 y	23:43	1.08	140		-	-	*	
13C-PCB-15	7.43e+07	1.57 y	23:42	1.00	1930					96.5
PCB-19	7.10e+05	1.10 y	22:05	1.04	32.0		-	-	*	
PCB-30	*	* n	NotFnd	1.45	*		1850	1400	0.936	
PCB-18	7.36e+06	1.04 y	23:38	1.01	340		-	-	*	
PCB-17	3.64e+06	1.05 y	23:48	1.08	158		-	-	*	
PCB-27	5.58e+05	1.08 y	24:19	1.55	16.8		-	-	*	
PCB-24	6.40e+05	1.14 y	24:20	1.32	22.7		-	-	*	
PCB-16	2.63e+06	1.03 y	24:48	1.15	107		-	-	*	
PCB-32	3.34e+06	1.07 y	24:50	1.34	117		-	-	*	
13C-PCB-19	4.26e+07	1.08 y	22:03	0.66	1670					83.5
13C-PCB-9	7.73e+07	1.59 y	19:51	-	9.29					
PCB-34	8.87e+04	1.13 y	25:34	0.81	7.65		-	-	*	
PCB-23	*	* n	NotFnd	0.90	*		786	401	1.24	
PCB-29	9.17e+04	1.16 y	25:56	0.90	7.18		-	-	*	
PCB-26	2.97e+06	0.98 y	26:06	0.97	215		-	-	*	
PCB-25	2.21e+06	1.00 y	26:16	1.21	128		-	-	*	
PCB-31	1.38e+07	0.97 y	26:36	0.97	993		-	-	*	
PCB-28	1.60e+07	0.99 y	26:41	1.08	1040		-	-	*	
PCB-20	6.86e+06	0.96 y	27:18	1.02	471		-	-	*	Co-elute PCB 21/33
PCB-21	6.86e+06	0.96 y	27:18	1.02	471		-	-	*	Co-elute PCB 20/33
PCB-33	6.86e+06	0.96 y	27:18	1.02	471		-	-	*	Co-elute PCB 20/21
PCB-22	4.48e+06	0.98 y	27:42	1.08	291		-	-	*	
PCB-36	*	* n	NotFnd	0.96	*		786	401	1.16	
PCB-39	*	* n	NotFnd	1.00	*		786	401	1.12	
PCB-38	*	* n	NotFnd	0.91	*		786	401	1.22	
PCB-35	*	* n	NotFnd	1.01	*		786	401	1.10	
PCB-37	3.05e+06	0.98 y	30:29	1.08	198		-	-	*	
13C-PCB-37	2.84e+07	1.01 y	30:26	1.03	1450					72.5

PCB-54	6.72e+04	0.81	y	25:37	1.04	2.60	J	-	-	*	
PCB-50	5.66e+04	0.71	y	26:44	0.79	2.88	J	-	-	*	
PCB-53	2.20e+06	0.78	y	27:20	0.80	111		-	-	*	
PCB-51	7.40e+05	0.78	y	27:39	0.84	35.7		-	-	*	
PCB-45	1.38e+06	0.79	y	28:05	0.72	77.4		-	-	*	
PCB-46	5.49e+05	0.83	y	28:31	0.69	32.0		-	-	*	
PCB-52	2.78e+07	0.77	y	28:59	0.99	1130		-	-	*	Co-elute PCB 69
PCB-69	2.78e+07	0.77	y	28:59	0.99	1130		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.07	*		800	1050	0.690	
PCB-43	1.15e+07	0.77	y	29:17	0.79	589		-	-	*	Co-elute PCB 49
PCB-49	1.15e+07	0.77	y	29:17	0.79	589		-	-	*	Co-elute PCB 43
PCB-47	3.90e+06	0.76	y	29:29	1.07	147		-	-	*	
PCB-48	1.97e+06	0.77	y	29:36	0.94	84.4		-	-	*	Co-elute PCB 75
PCB-75	1.97e+06	0.77	y	29:36	0.94	84.4		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*		800	1050	0.745	
PCB-62	*	*	n	NotFnd	0.99	*		800	1050	0.742	
PCB-44	8.89e+06	0.80	y	30:17	0.73	488		-	-	*	
PCB-42	2.95e+06	0.79	y	30:32	0.98	121		-	-	*	Co-elute PCB 59
PCB-59	2.95e+06	0.79	y	30:32	0.98	121		-	-	*	Co-elute PCB 42
PCB-72	7.44e+06	0.79	y	31:10	1.09	276		-	-	*	Co-elute PCB 41/71/64
PCB-41	7.44e+06	0.79	y	31:10	1.09	276		-	-	*	Co-elute PCB 72/71/64
PCB-71	7.44e+06	0.79	y	31:10	1.09	276		-	-	*	Co-elute PCB 72/41/64
PCB-64	7.44e+06	0.79	y	31:10	1.09	276		-	-	*	Co-elute PCB 72/41/71
PCB-68	9.88e+04	0.84	y	31:27	1.12	3.54	J	-	-	*	
PCB-40	9.48e+05	0.76	y	31:37	0.63	60.2		-	-	*	
PCB-57	1.19e+05	0.80	y	31:56	1.08	4.43		-	-	*	
PCB-67	7.41e+05	0.79	y	32:10	1.07	27.8		-	-	*	
PCB-58	7.30e+04	0.85	y	32:15	1.08	2.72	J	-	-	*	
PCB-63	8.88e+05	0.78	y	32:24	1.08	33.2		-	-	*	
PCB-74	1.12e+07	0.79	y	32:39	1.18	382		-	-	*	
PCB-61	3.06e+07	0.78	y	32:50	1.15	1070		-	-	*	Co-elute PCB 70
PCB-70	3.06e+07	0.78	y	32:50	1.15	1070		-	-	*	Co-elute PCB 61
PCB-76	2.26e+07	0.78	y	33:02	1.13	802		-	-	*	Co-elute PCB 66
PCB-66	2.26e+07	0.78	y	33:02	1.13	802		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.27	*		800	1050	0.581	
PCB-55	4.58e+05	0.75	y	33:31	1.13	16.4		-	-	*	
13C-PCB-54	4.96e+07	0.80	y	25:37	1.09	2370					119
PCB-104	*	*	n	NotFnd	1.13	*		350	310	0.612	
PCB-96	1.73e+05	1.52	y	31:26	1.06	13.1		-	-	*	
PCB-103	4.50e+05	1.51	y	31:55	0.88	40.8		-	-	*	
PCB-100	3.41e+05	1.54	y	32:12	0.87	31.2		-	-	*	
PCB-94	1.66e+05	1.48	y	32:36	0.74	17.8		-	-	*	
PCB-98	*	*	n	NotFnd	1.06	*		350	310	0.653	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	1.06	*		350	310	0.653	Co-elute PCB 98
PCB-95	3.68e+07	1.58	y	33:07	0.63	4610		-	-	*	
PCB-93	*	*	n	NotFnd	0.63	*		350	310	1.10	
PCB-88	5.96e+06	1.61	y	33:28	0.83	572		-	-	*	Co-elute PCB 91
PCB-91	5.96e+06	1.61	y	33:28	0.83	572		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.99	*		350	310	0.699	
13C-PCB-104	2.50e+07	1.61	y	30:07	0.98	1340					66.9
13C-PCB-28	5.35e+07	1.00	y	26:40	1.01	2760					138
13C-PCB-52	3.82e+07	0.79	y	28:58	-	6.42					

PCB-56	8.71e+06	0.72	y	34:00	0.89	445		-	-	*	Co-elute PCB 60
PCB-60	8.71e+06	0.72	y	34:00	0.89	445		-	-	*	Co-elute PCB 56
PCB-79	2.42e+05	0.70	y	35:00	1.00	11.0		-	-	*	
PCB-78	6.46e+04	0.68	y	35:36	0.97	3.03	J	-	-	*	
PCB-81	4.40e+05	0.66	y	36:11	1.07	19.7		-	-	*	
13C-PCB-81	4.16e+07	0.80	y	36:07	0.96	2180					109
PCB-77	1.80e+06	0.75	y	36:43	1.01	77.0		-	-	*	
13C-PCB-77	4.61e+07	0.82	y	36:41	1.02	2270					114
PCB-155	*	*	n	NotFnd	1.05	*		789	811	0.742	
PCB-150	2.22e+05	1.32	y	35:26	0.96	11.3		-	-	*	
PCB-152	*	*	n	NotFnd	0.94	*		789	811	0.829	
PCB-145	*	*	n	NotFnd	0.94	*		789	811	0.834	
PCB-136	8.93e+06	1.26	y	36:36	0.94	461		-	-	*	
PCB-148	*	*	n	NotFnd	0.68	*		789	811	1.15	
PCB-154	1.23e+06	1.26	y	37:10	0.80	74.6		-	-	*	
13C-PCB-155	4.10e+07	1.27	y	34:13	1.15	1790					89.8
13C-PCB-111	4.56e+07	1.57	y	36:17	1.14	2010					101
13C-PCB-101	3.96e+07	1.60	y	34:40	-	6.97					
PCB-84	1.85e+07	1.55	y	34:20	0.87	1110		-	-	*	Co-elute PCB 92
PCB-92	1.85e+07	1.55	y	34:20	0.87	1110		-	-	*	Co-elute PCB 84
PCB-89	3.15e+05	1.58	y	34:30	0.86	18.9		-	-	*	
PCB-90	5.33e+07	1.56	y	34:41	0.98	2820		-	-	*	Co-elute PCB 101
PCB-101	5.33e+07	1.56	y	34:41	0.98	2820		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.12	*		850	777	0.806	
PCB-99	2.17e+07	1.57	y	35:00	1.06	1060		-	-	*	
PCB-119	1.52e+06	1.56	y	35:26	1.26	62.5		-	-	*	
PCB-83	2.17e+06	1.52	y	35:34	1.00	112		-	-	*	Co-elute PCB 112
PCB-112	2.17e+06	1.52	y	35:34	1.00	112		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.13	*		850	777	0.800	
PCB-97	1.32e+07	1.55	y	35:55	1.06	645		-	-	*	
PCB-86	*	*	n	NotFnd	0.88	*		850	777	1.02	
PCB-125	2.15e+07	1.54	y	36:11	1.13	985		-	-	*	Co-elute PCB 87/117
PCB-87	2.15e+07	1.54	y	36:11	1.13	985		-	-	*	Co-elute PCB 125/117
PCB-117	2.15e+07	1.54	y	36:11	1.13	985		-	-	*	Co-elute PCB 125/87
PCB-111	1.09e+06	1.52	y	36:20	1.45	39.1		-	-	*	Co-elute PCB 115
PCB-115	1.09e+06	1.52	y	36:20	1.45	39.1		-	-	*	Co-elute PCB 111
PCB-85	7.01e+06	1.54	y	36:25	1.02	357		-	-	*	Co-elute PCB 116
PCB-116	7.01e+06	1.54	y	36:25	1.02	357		-	-	*	Co-elute PCB 85
PCB-120	2.69e+05	1.61	y	36:39	1.34	10.4		-	-	*	
PCB-110	6.67e+07	1.55	y	36:48	1.30	2670		-	-	*	
PCB-82	3.89e+06	1.52	y	37:23	0.75	269		-	-	*	
PCB-124	1.84e+06	1.54	y	38:02	0.99	96.4		-	-	*	
PCB-108	2.77e+06	1.46	y	38:12	0.95	151		-	-	*	Co-elute PCB 107
PCB-107	2.77e+06	1.46	y	38:12	0.95	151		-	-	*	Co-elute PCB 108
PCB-123	6.50e+05	1.38	y	38:20	1.08	31.8		-	-	*	
13C-PCB-123	3.77e+07	1.53	y	38:19	0.97	2250					113
PCB-118	4.03e+07	1.52	y	38:30	0.91	2290		-	-	*	Co-elute PCB 106
PCB-106	4.03e+07	1.52	y	38:30	0.91	2290		-	-	*	Co-elute PCB 118
13C-PCB-118	3.88e+07	1.54	y	38:30	1.06	2130					107
PCB-114	9.72e+05	1.51	y	39:08	0.97	51.7		-	-	*	
13C-PCB-114	3.87e+07	1.56	y	39:06	1.04	2170					109
PCB-122	4.77e+05	1.56	y	39:14	0.95	26.2		-	-	*	
PCB-105	1.66e+07	1.50	y	39:56	0.94	905		-	-	*	
13C-PCB-105	3.88e+07	1.55	y	39:56	1.03	2180					109

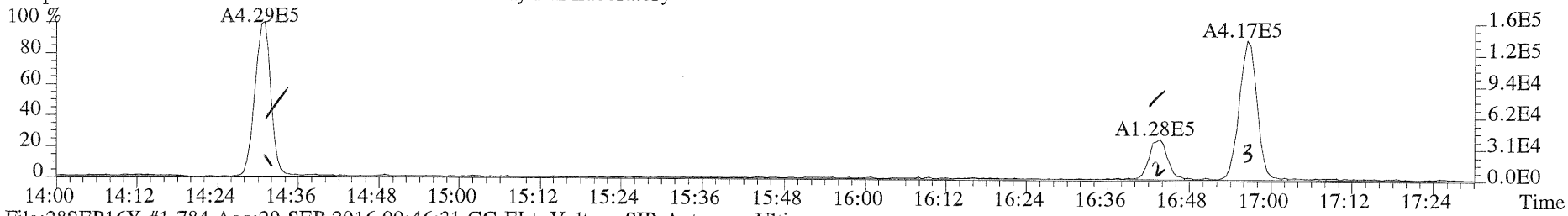
PCB-127	*	*	n	NotFnd	0.86	*	850	899	1.13		
PCB-126	2.14e+05	1.38	y	42:02	0.98	11.2	-	-	*		
13C-PCB-126	3.91e+07	1.58	y	42:02	0.91	2490				125	
PCB-151	1.09e+07	1.24	y	37:47	0.82	668	-	-	*		
PCB-135	6.23e+06	1.27	y	37:59	0.88	356	-	-	*		
PCB-144	2.92e+06	1.24	y	38:05	0.82	179	-	-	*		
PCB-147	1.15e+06	1.20	y	38:14	0.86	66.9	-	-	*		
PCB-139	4.53e+07	1.23	y	38:27	0.90	2520	-	-	*	Co-elute PCB 149	
PCB-149	4.53e+07	1.23	y	38:27	0.90	2520	-	-	*	Co-elute PCB 139	
PCB-140	3.45e+05	1.15	y	38:38	0.83	20.7	-	-	*		
PCB-143	2.73e+06	1.21	y	39:03	0.82	167	-	-	*	Co-elute PCB 134	
PCB-134	2.73e+06	1.21	y	39:03	0.82	167	-	-	*	Co-elute PCB 143	
PCB-131	1.59e+06	1.18	y	39:19	0.83	96.2	-	-	*	Co-elute PCB 133	
PCB-133	1.59e+06	1.18	y	39:19	0.83	96.2	-	-	*	Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.71	*	825	843	1.23		
PCB-165	8.52e+06	1.23	y	39:42	0.97	441	-	-	*	Co-elute PCB 146	
PCB-146	8.52e+06	1.23	y	39:42	0.97	441	-	-	*	Co-elute PCB 165	
PCB-161	1.77e+07	1.22	y	39:57	0.92	966	-	-	*	Co-elute PCB 132	
PCB-132	1.77e+07	1.22	y	39:57	0.92	966	-	-	*	Co-elute PCB 161	
PCB-153	5.67e+07	1.24	y	40:04	0.95	3000	-	-	*		
PCB-168	1.11e+05	1.07	y	40:17	1.05	5.30	-	-	*		
PCB-141	9.02e+06	1.23	y	40:47	0.81	556	-	-	*		
PCB-137	2.67e+06	1.21	y	41:08	0.76	177	-	-	*		
PCB-130	2.88e+06	1.24	y	41:15	0.74	194	-	-	*		
PCB-138	6.55e+07	1.25	y	41:34	1.10	2990	-	-	*	Co-elute PCB 163/164	
PCB-163	6.55e+07	1.25	y	41:34	1.10	2990	-	-	*	Co-elute PCB 138/164	
PCB-164	6.55e+07	1.25	y	41:34	1.10	2990	-	-	*	Co-elute PCB 138/163	
PCB-158	7.44e+06	1.24	y	41:48	1.06	353	-	-	*	Co-elute PCB 160	
PCB-160	7.44e+06	1.24	y	41:48	1.06	353	-	-	*	Co-elute PCB 158	
PCB-129	2.16e+06	1.25	y	42:02	0.66	163	-	-	*		
PCB-166	3.11e+05	1.15	y	42:29	0.99	15.8	-	-	*		
PCB-159	7.49e+05	1.29	y	42:50	1.05	35.7	-	-	*		
PCB-128	9.28e+06	1.23	y	43:03	0.90	516	-	-	*	Co-elute PCB 162	
PCB-162	9.28e+06	1.23	y	43:03	0.90	516	-	-	*	Co-elute PCB 128	
PCB-167	2.80e+06	1.22	y	43:26	0.94	146	-	-	*		
13C-PCB-167	4.06e+07	1.23	y	43:25	1.12	2100				105	
PCB-156	7.22e+06	1.21	y	44:39	0.99	358	-	-	*		
13C-PCB-156	4.06e+07	1.25	y	44:37	1.07	2210				111	
PCB-157	1.52e+06	1.21	y	44:54	0.94	79.9	-	-	*		
13C-PCB-157	4.03e+07	1.25	y	44:54	1.10	2140				107	
PCB-169	*	*	n	NotFnd	0.95	*	825	843	0.839		
13C-PCB-169	3.78e+07	1.23	y	46:45	0.98	2240				112	

FAL ID: 10147-006-0001-SA Filename: 28SEP16Y Sam:11 Acquired: 29-SEP-16 00:46:31 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-SC-ENR-CA-CORE ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.010

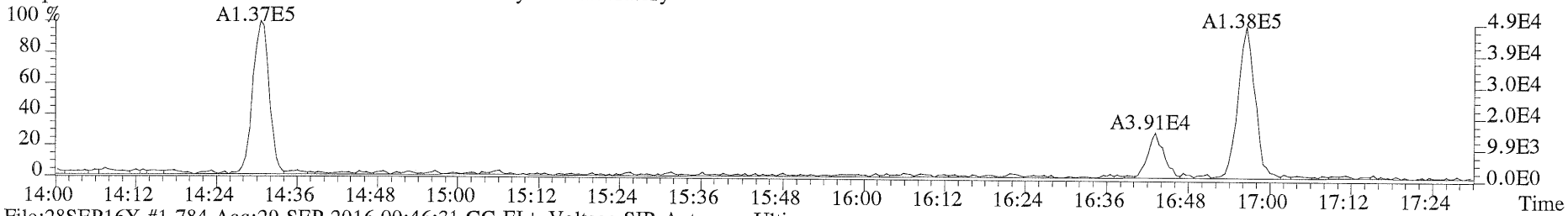
PCB-188	6.28e+04	1.00	y	39:44	1.11	3.07	J	-	-	*		
13C-PCB-188	3.67e+07	1.06	y	39:42	1.23	1730					86.8	
PCB-184	*	*	n	NotFnd	1.25	*		756	788	0.671		
PCB-179	7.28e+06	1.03	y	40:53	1.23	364		-	-	*		
PCB-176	2.43e+06	1.04	y	41:20	1.19	125		-	-	*		
PCB-186	*	*	n	NotFnd	1.18	*		756	788	0.711		
PCB-178	2.60e+06	1.06	y	42:20	0.85	186		-	-	*		
PCB-175	5.80e+05	1.10	y	42:40	0.89	39.8		-	-	*		
PCB-187	1.83e+07	1.04	y	42:50	0.95	1190		-	-	*	Co-elute PCB 182	
PCB-182	1.83e+07	1.04	y	42:50	0.95	1190		-	-	*	Co-elute PCB 187	
PCB-183	8.55e+06	1.05	y	43:08	0.95	551		-	-	*		
PCB-185	1.37e+06	1.06	y	43:46	0.86	97.6		-	-	*		
PCB-174	1.17e+07	1.05	y	44:06	0.89	803		-	-	*		
PCB-181	*	*	n	NotFnd	0.82	*		756	788	1.02		
PCB-177	6.96e+06	1.07	y	44:22	0.74	575		-	-	*		
PCB-171	3.48e+06	1.06	y	44:39	0.82	259		-	-	*		
PCB-173	2.46e+05	1.03	y	45:03	0.73	20.7		-	-	*		
PCB-172	1.96e+06	1.05	y	45:26	0.75	161		-	-	*		
PCB-192	*	*	n	NotFnd	0.96	*		756	788	0.868		
PCB-180	2.60e+07	1.07	y	45:48	0.98	1620		-	-	*		
PCB-193	1.81e+06	1.06	y	45:58	1.05	105		-	-	*		
PCB-191	6.33e+05	1.01	y	46:11	0.97	39.8		-	-	*		
PCB-170	1.04e+07	1.06	y	47:05	0.64	991		-	-	*		
PCB-190	2.92e+06	1.08	y	47:15	0.88	202		-	-	*		
PCB-189	6.03e+05	1.11	y	48:26	1.10	38.6		-	-	*		
13C-PCB-189	2.85e+07	1.06	y	48:26	0.90	1840					92.1	
PCB-202	1.60e+06	0.89	y	44:50	0.95	123		-	-	*		
PCB-201	1.07e+06	0.85	y	45:17	0.92	84.9		-	-	*		
PCB-204	*	*	n	NotFnd	0.92	*		651	644	1.03		
PCB-197	2.74e+05	0.91	y	45:41	0.93	21.7		-	-	*		
PCB-200	8.96e+05	0.89	y	46:26	0.88	74.2		-	-	*		
PCB-198	2.78e+05	0.78	y	47:36	0.60	33.8		-	-	*		
PCB-199	5.04e+06	0.89	y	47:41	0.55	665		-	-	*		
PCB-203	5.99e+06	0.87	y	47:56	0.64	680		-	-	*	Co-elute PCB 196	
PCB-196	5.99e+06	0.87	y	47:56	0.64	680		-	-	*	Co-elute PCB 203	
13C-PCB-202	2.73e+07	0.92	y	44:49	1.00	1580					79.3	
13C-PCB-178	2.65e+07	1.08	y	42:20	0.84	1840					92.0	
13C-PCB-138	3.43e+07	1.24	y	41:33	-	7.02						
PCB-195	1.85e+06	0.90	y	49:03	0.75	193		-	-	*		
PCB-194	4.89e+06	0.87	y	49:51	0.76	503		-	-	*		
PCB-205	2.97e+05	0.85	y	50:06	1.00	23.2		-	-	*		
13C-PCB-205	2.55e+07	0.91	y	50:05	1.27	1990					99.5	
PCB-208	8.85e+05	1.31	y	49:10	0.93	69.2		-	-	*		
13C-PCB-208	2.75e+07	0.79	y	49:08	1.49	1820					91.0	
PCB-207	4.37e+05	1.37	y	49:28	1.00	37.3		-	-	*		
PCB-206	2.66e+06	1.35	y	51:18	0.99	275		-	-	*		
13C-PCB-206	1.94e+07	0.80	y	51:17	1.02	1880					94.1	
PCB-209	2.01e+06	1.16	y	52:29	1.06	154		-	-	*		
13C-PCB-209	2.46e+07	1.19	y	52:29	1.58	1540					77.3	
13C-PCB-194	2.02e+07	0.92	y	49:50	-	7.70						

Analyst: _____ Date: 10/7/16

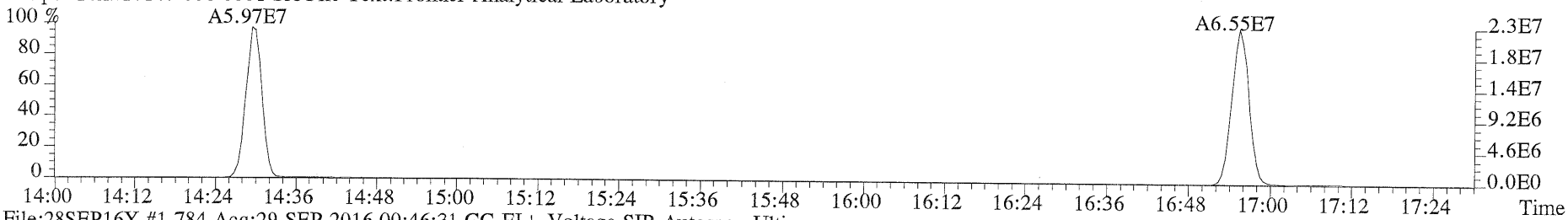
File:28SEP16Y #1-784 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



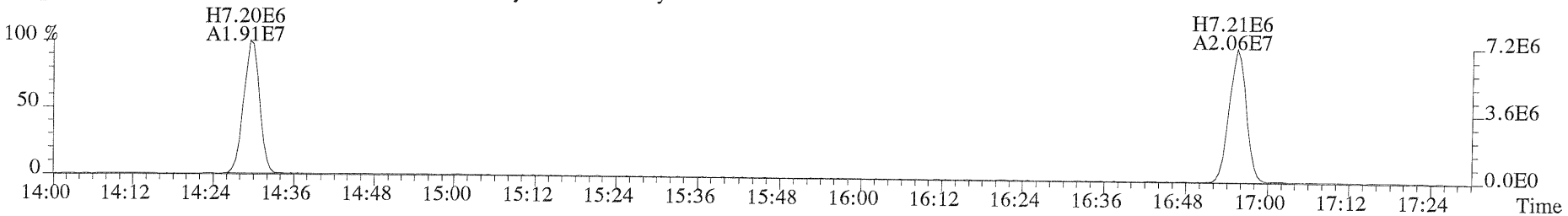
File:28SEP16Y #1-784 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



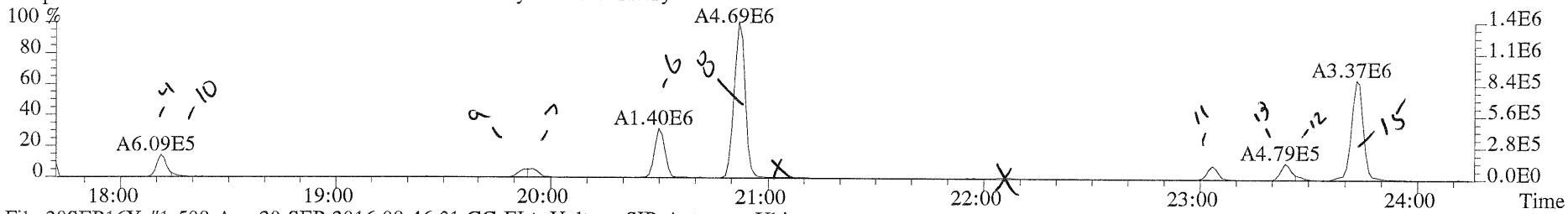
File:28SEP16Y #1-784 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



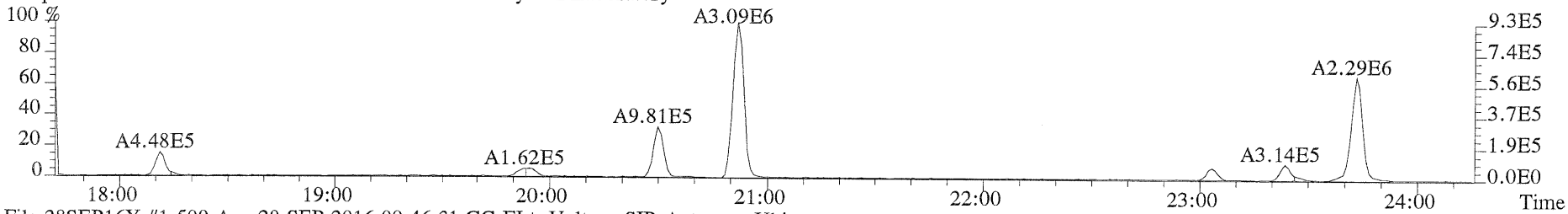
File:28SEP16Y #1-784 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



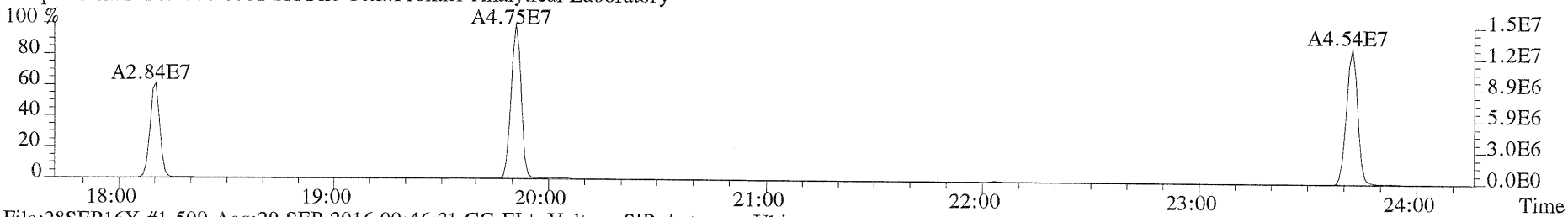
File:28SEP16Y #1-509 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



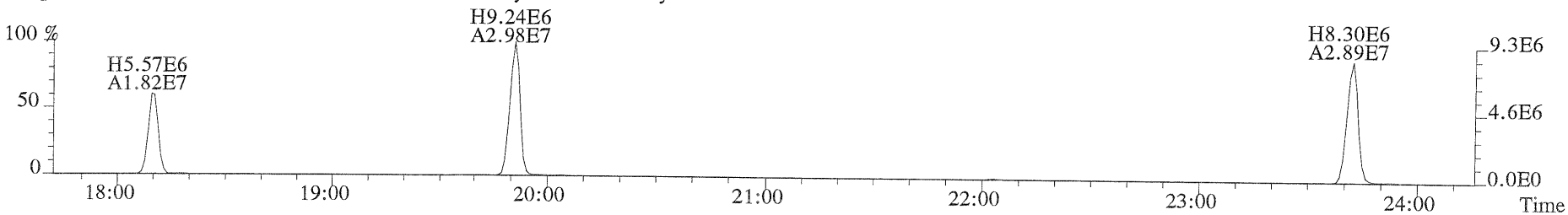
File:28SEP16Y #1-509 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



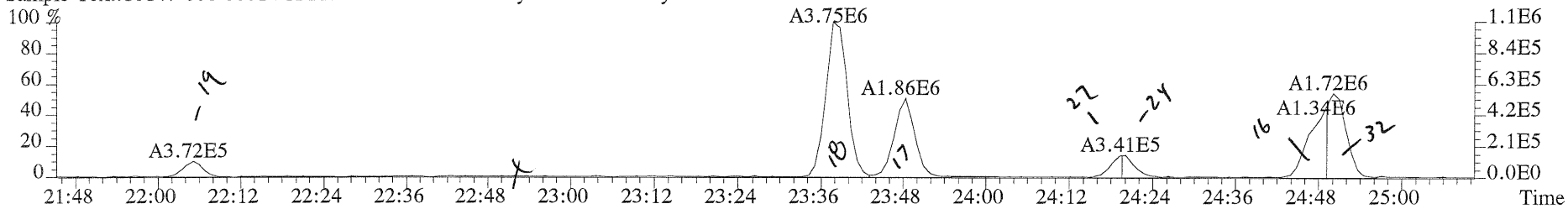
File:28SEP16Y #1-509 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



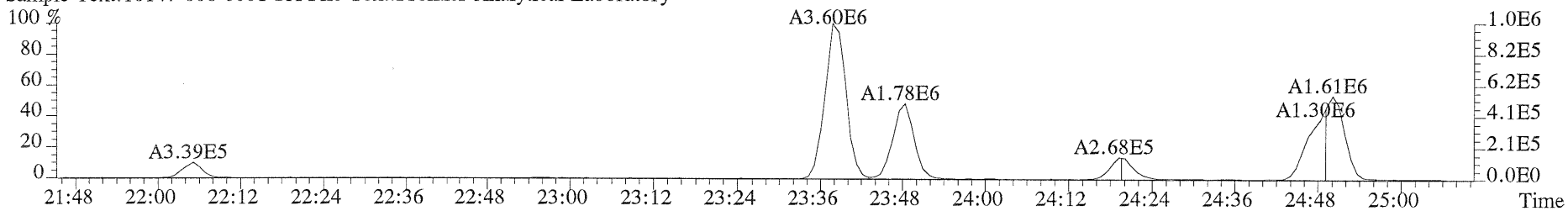
File:28SEP16Y #1-509 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



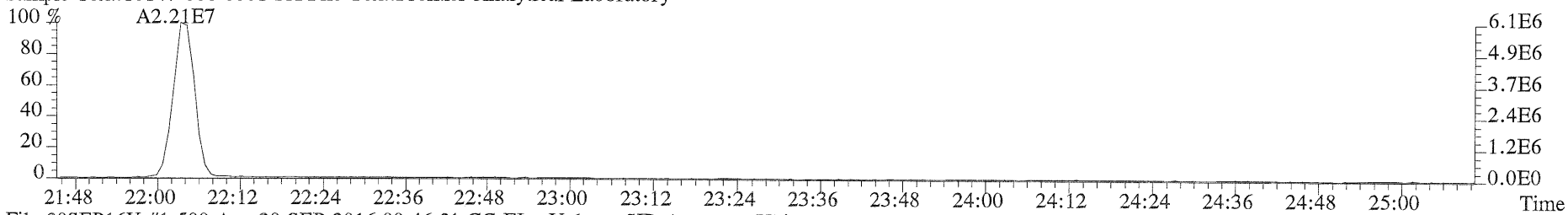
File:28SEP16Y #1-509 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



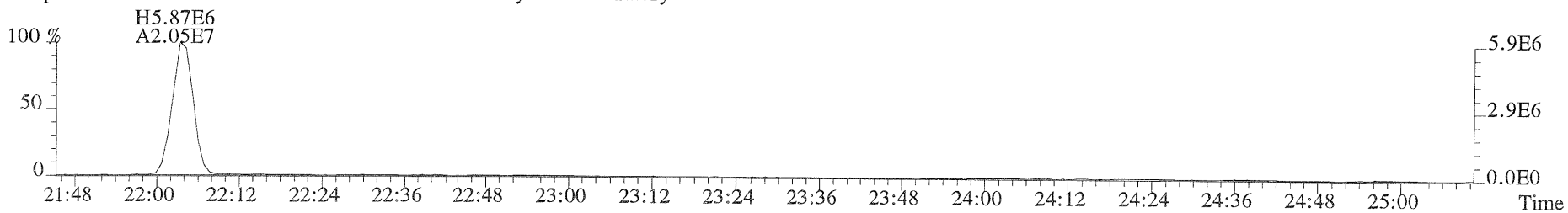
File:28SEP16Y #1-509 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



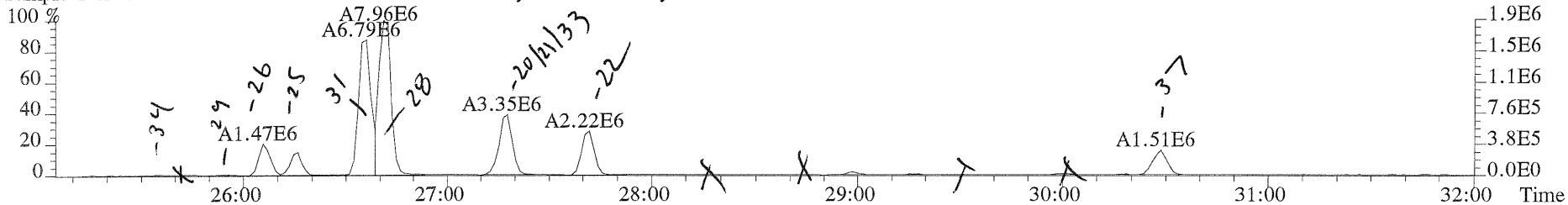
File:28SEP16Y #1-509 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



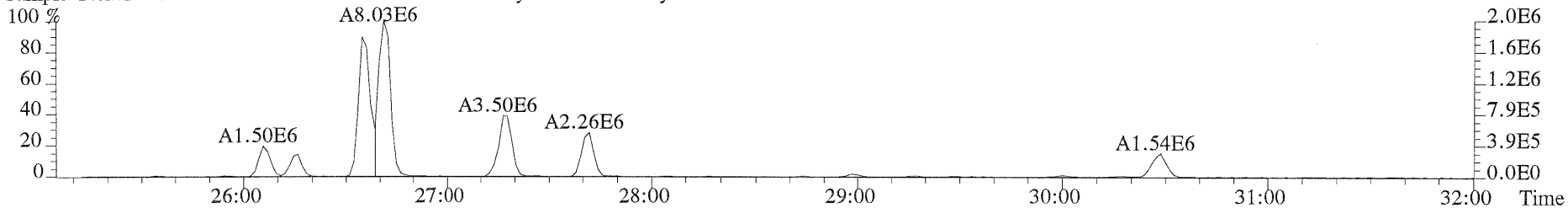
File:28SEP16Y #1-509 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



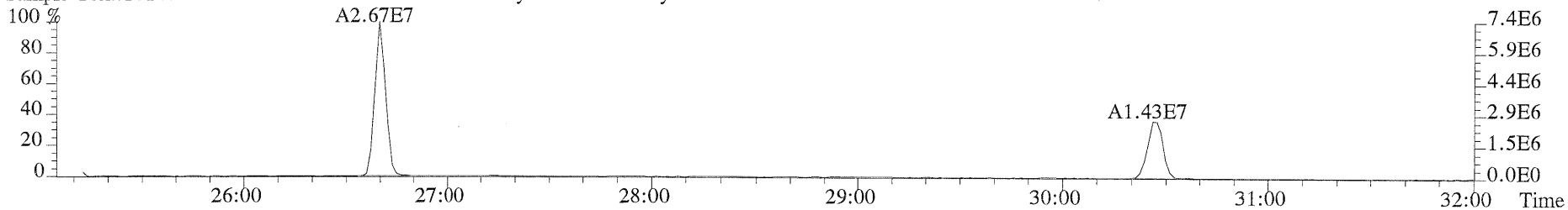
File:28SEP16Y #1-403 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



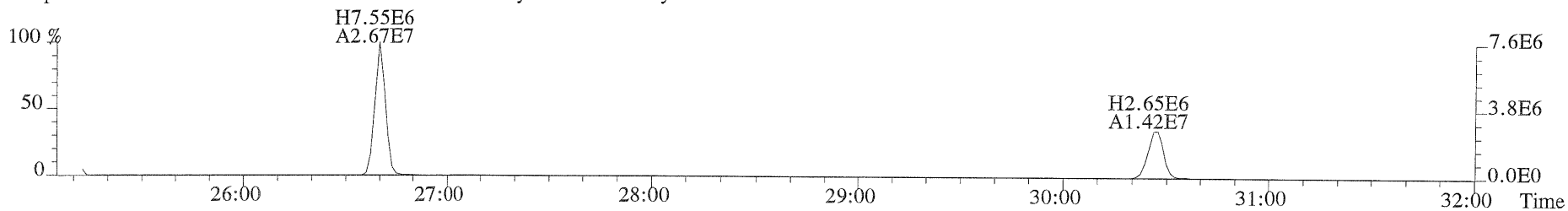
File:28SEP16Y #1-403 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



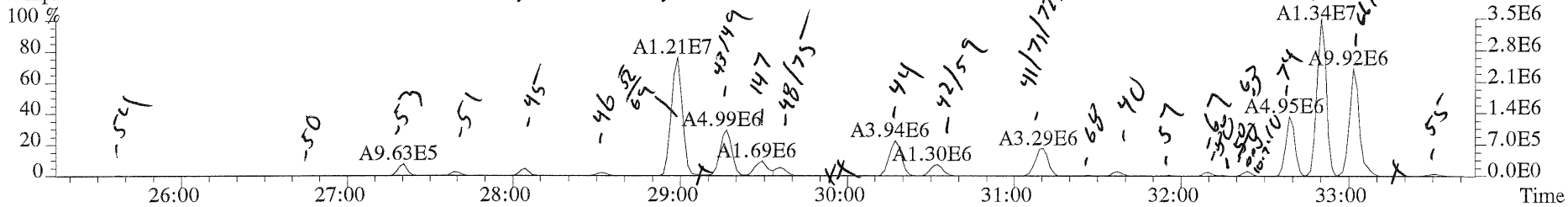
File:28SEP16Y #1-403 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



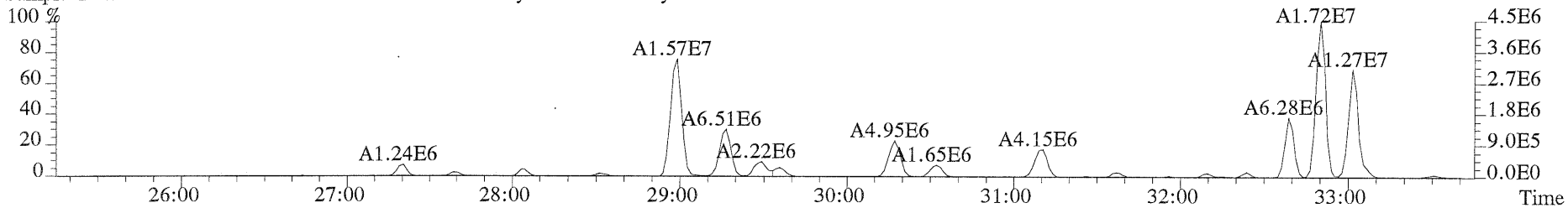
File:28SEP16Y #1-403 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



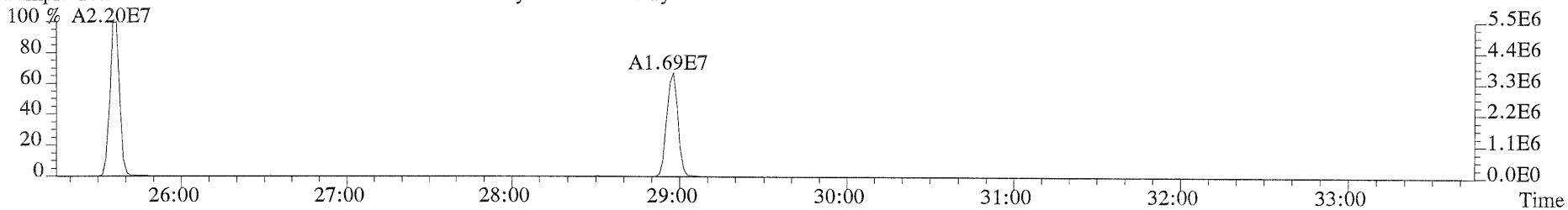
File:28SEP16Y #1-403 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



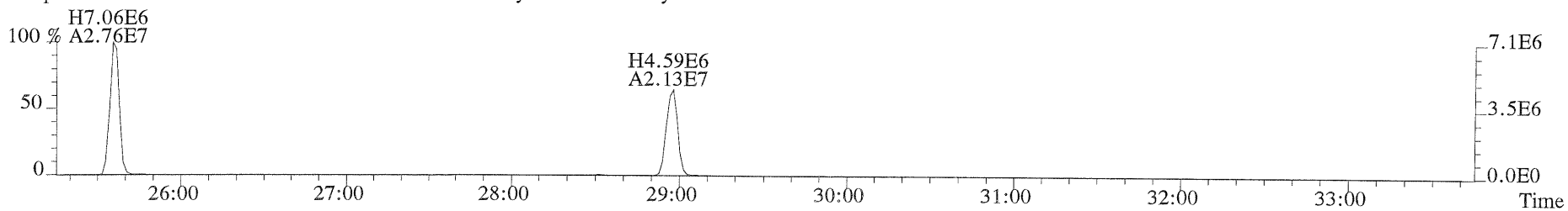
File:28SEP16Y #1-403 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



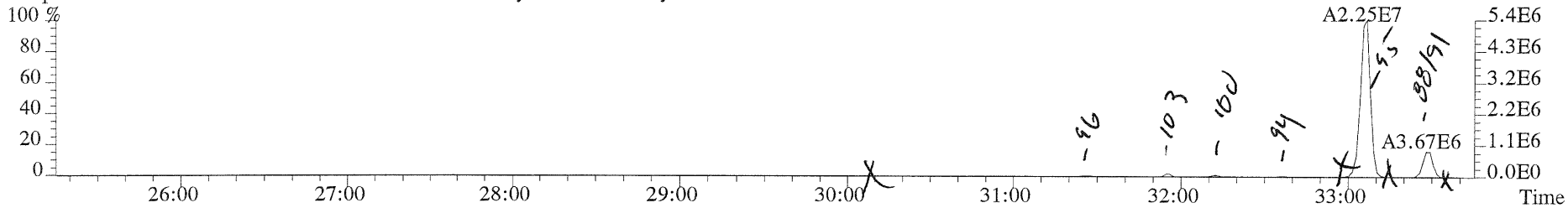
File:28SEP16Y #1-403 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



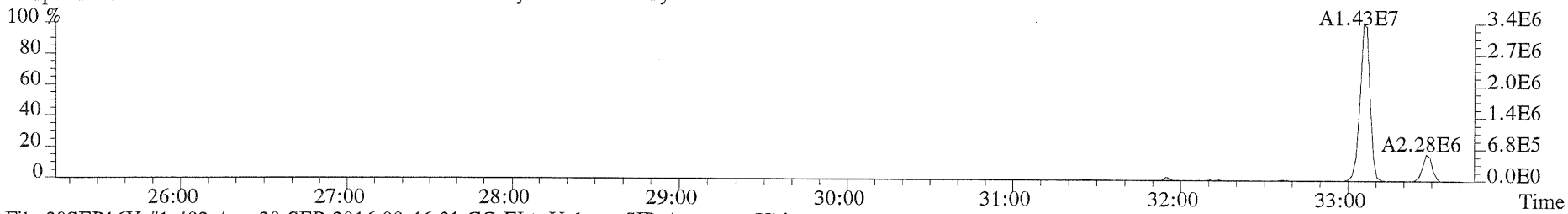
File:28SEP16Y #1-403 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



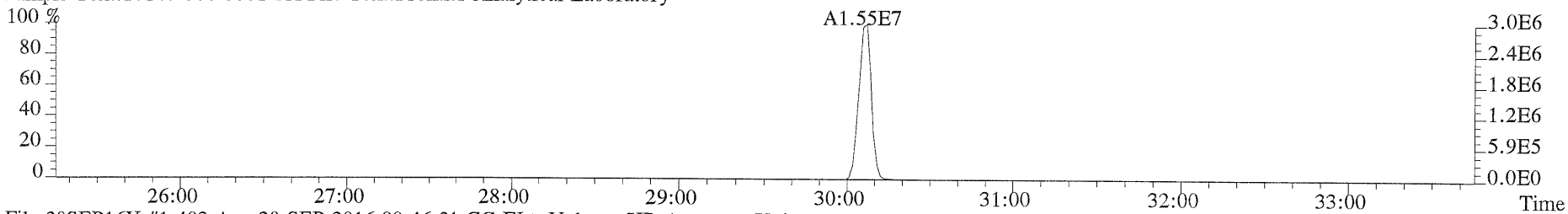
File:28SEP16Y #1-403 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



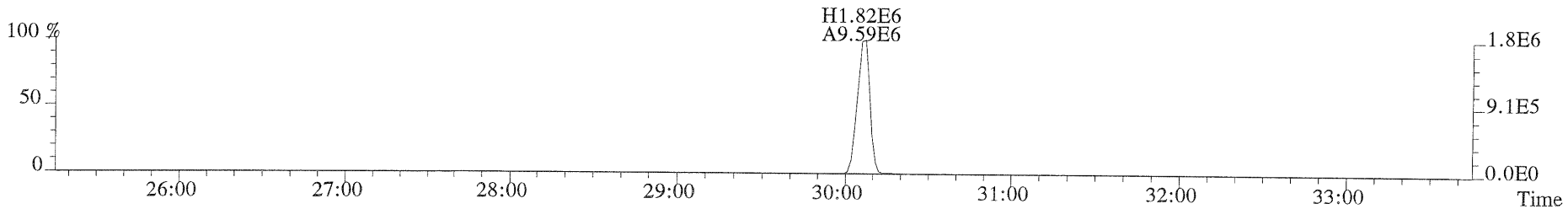
File:28SEP16Y #1-403 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-403 Acq:29-SEP-2016 00:46:31 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:10147-006-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-403 Acq:29-SEP-2016 00:46:31 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:10147-006-0001-SA File Text:Frontier Analytical Laboratory



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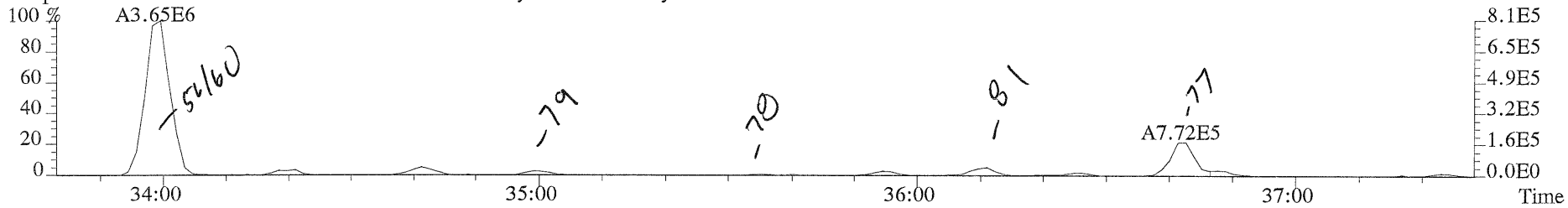
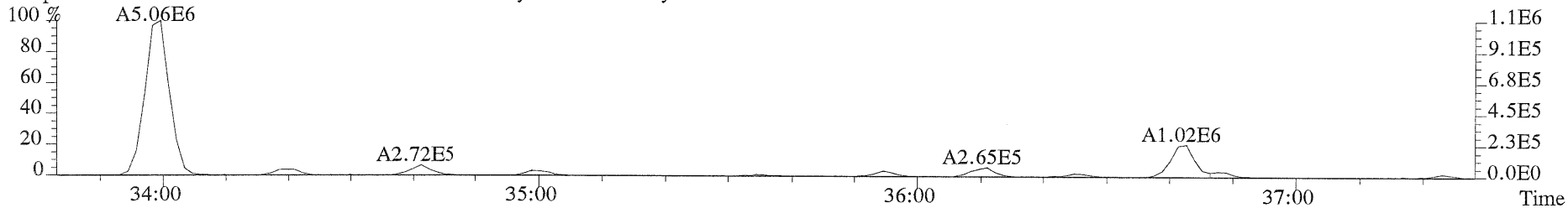
289.9224 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-179 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



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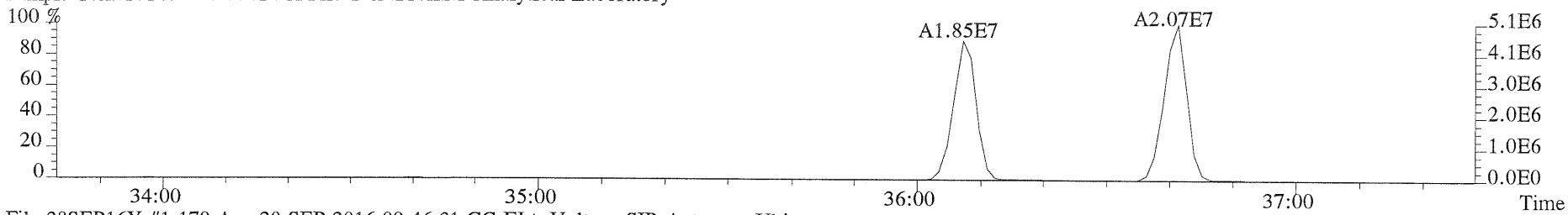
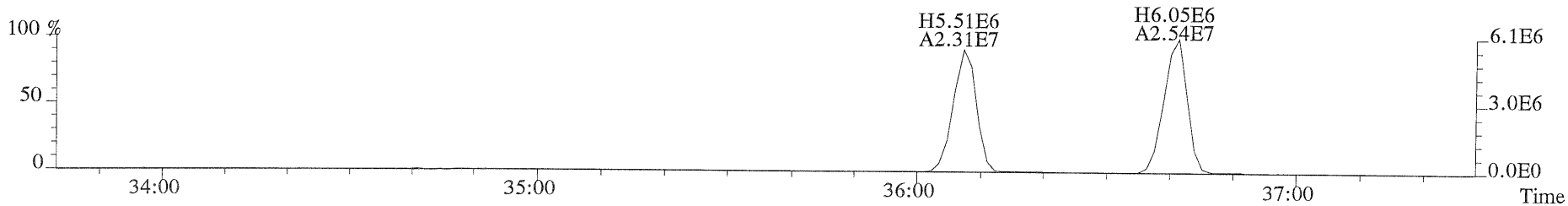
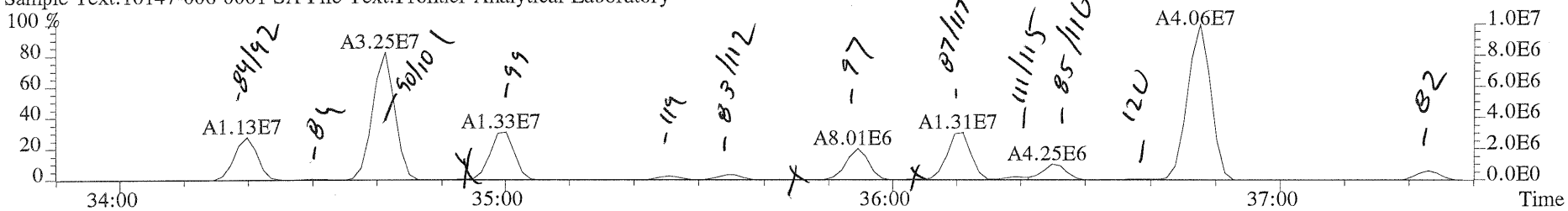
301.9626 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



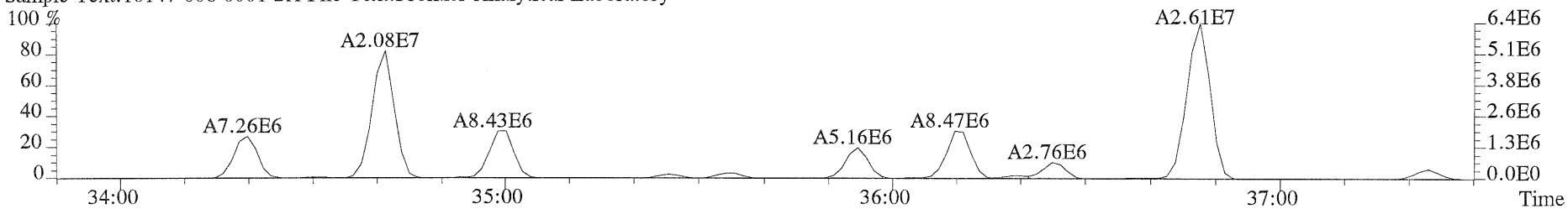
File:28SEP16Y #1-179 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



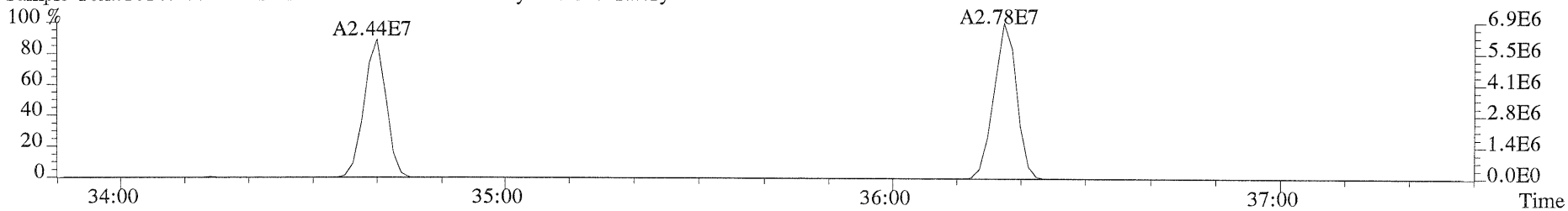
File:28SEP16Y #1-179 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



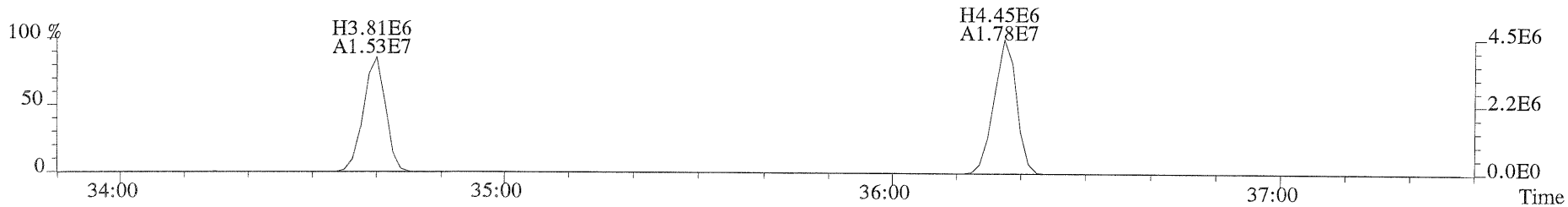
File:28SEP16Y #1-179 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



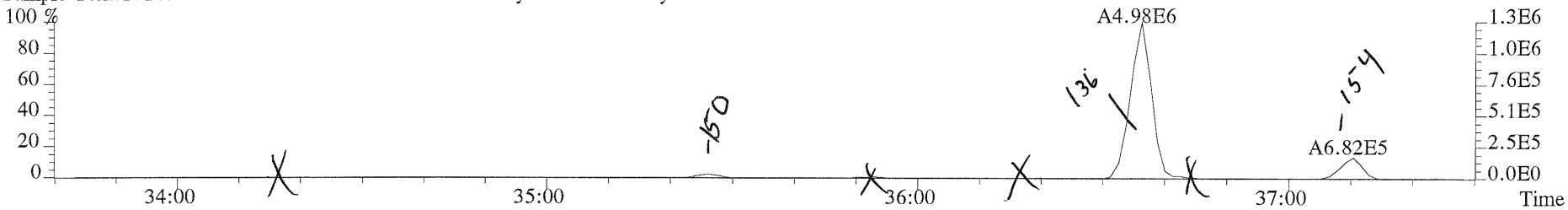
File:28SEP16Y #1-179 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



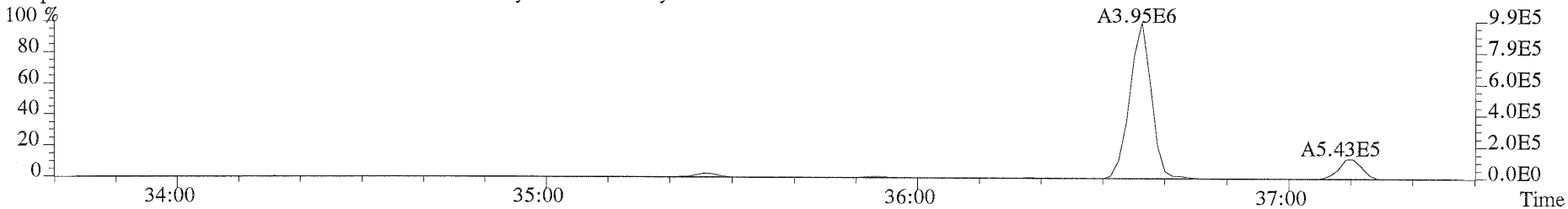
File:28SEP16Y #1-179 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



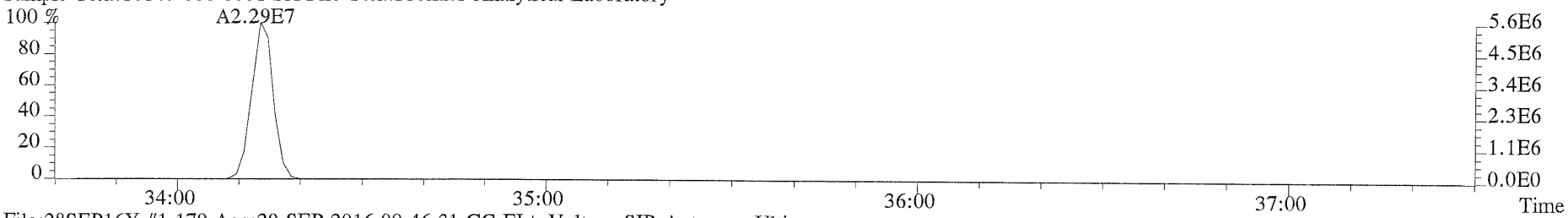
File:28SEP16Y #1-179 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



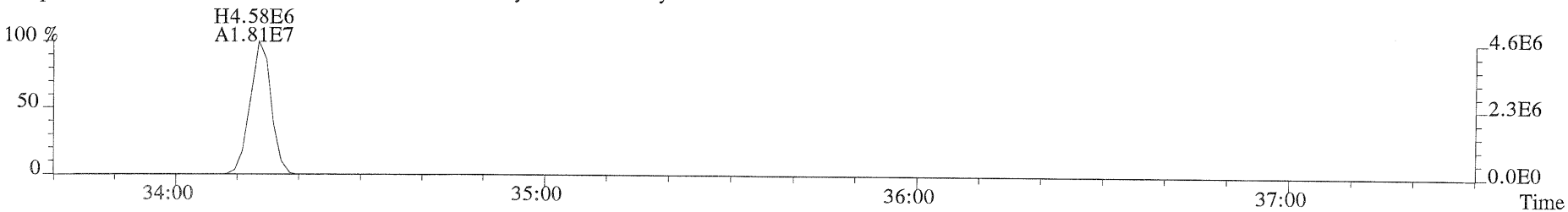
File:28SEP16Y #1-179 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



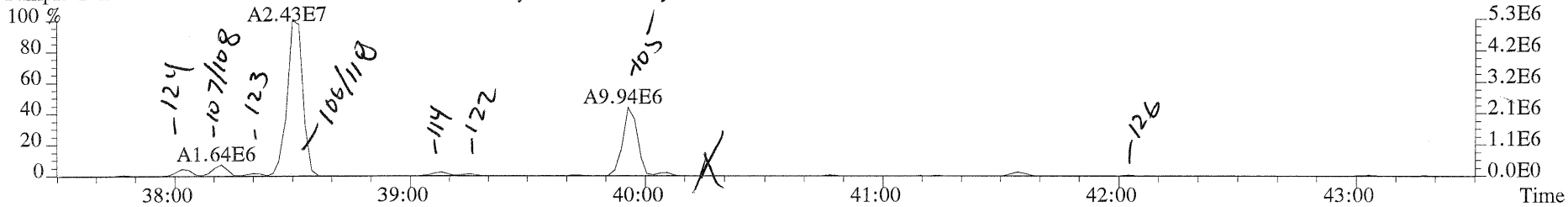
File:28SEP16Y #1-179 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



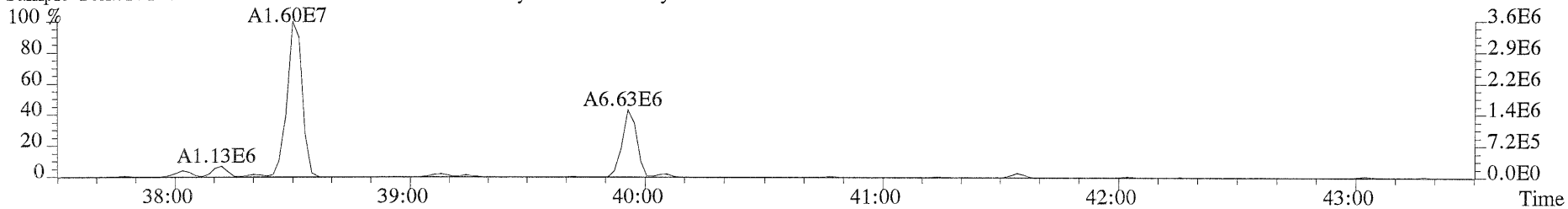
File:28SEP16Y #1-179 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



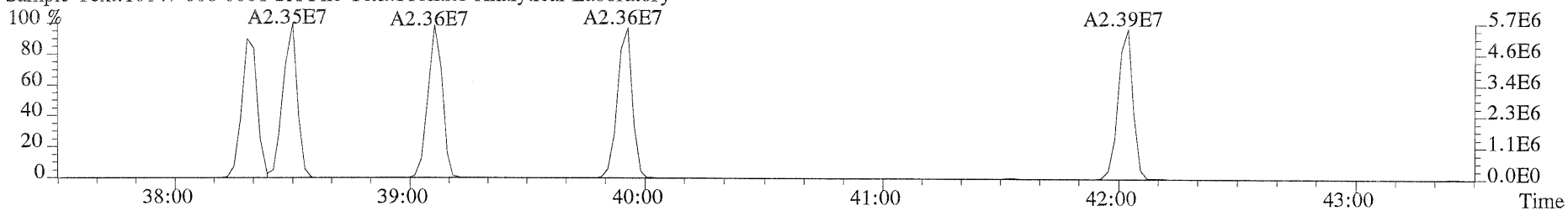
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



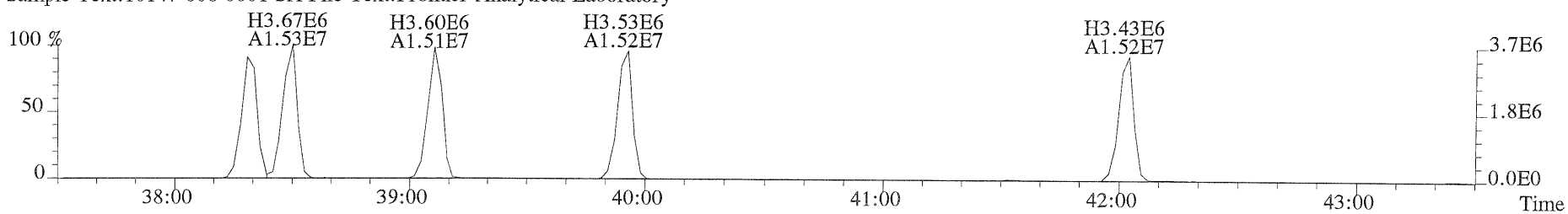
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



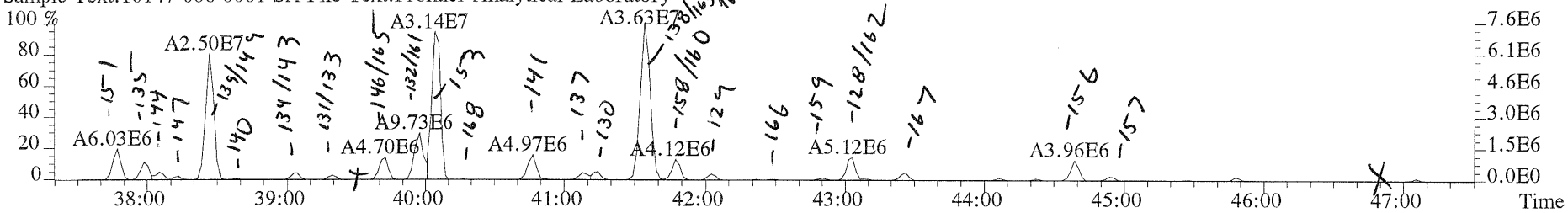
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



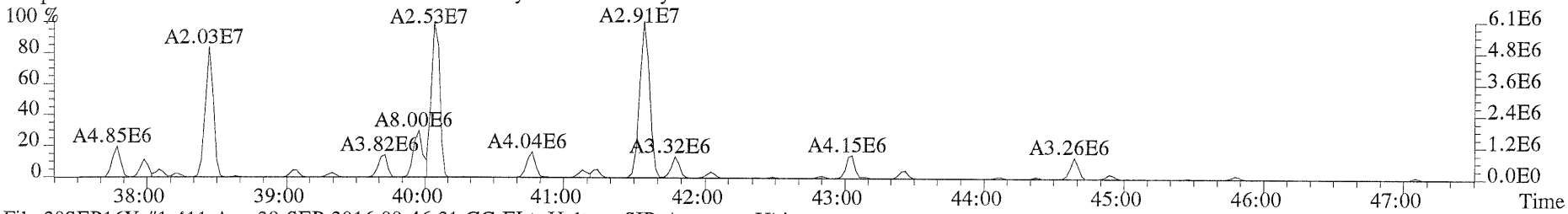
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



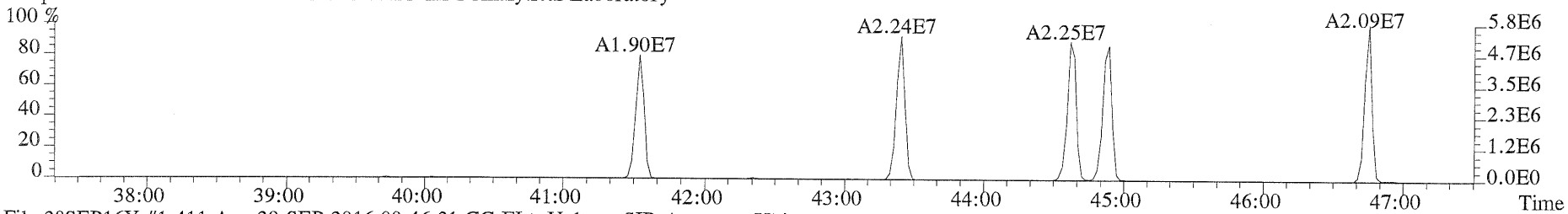
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



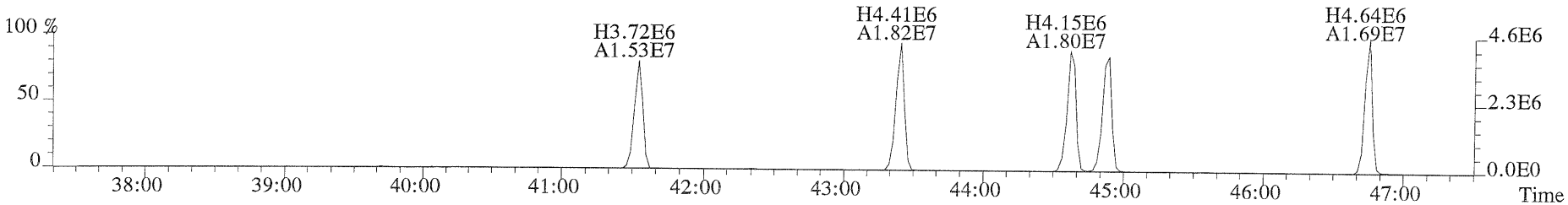
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



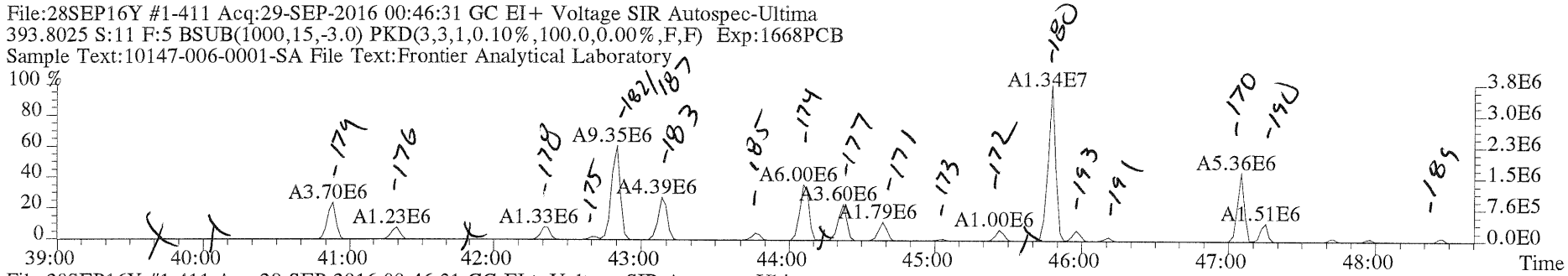
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



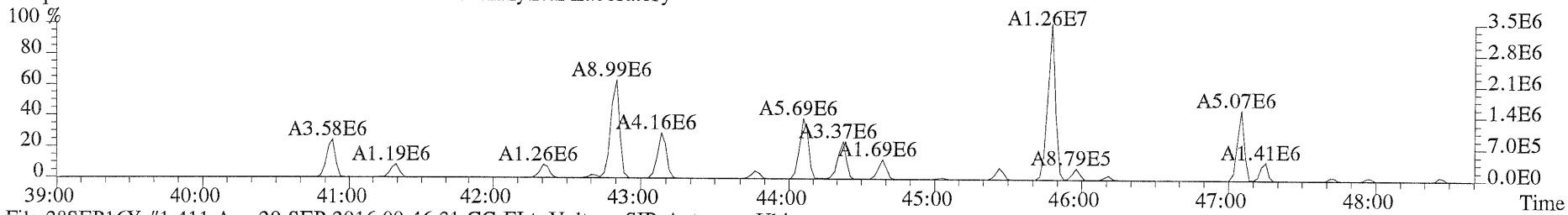
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



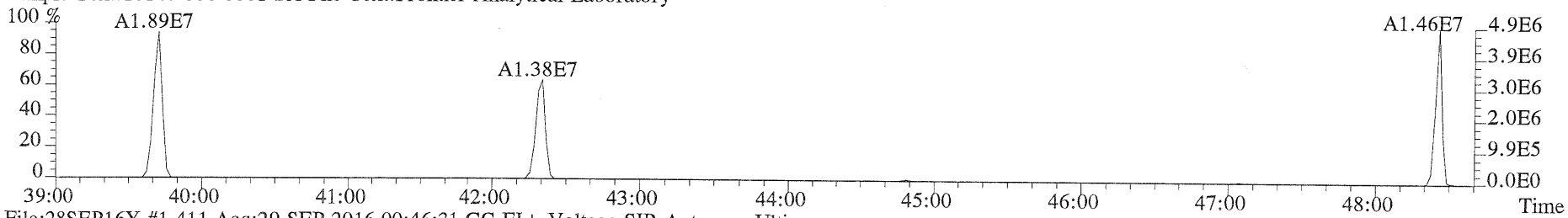
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



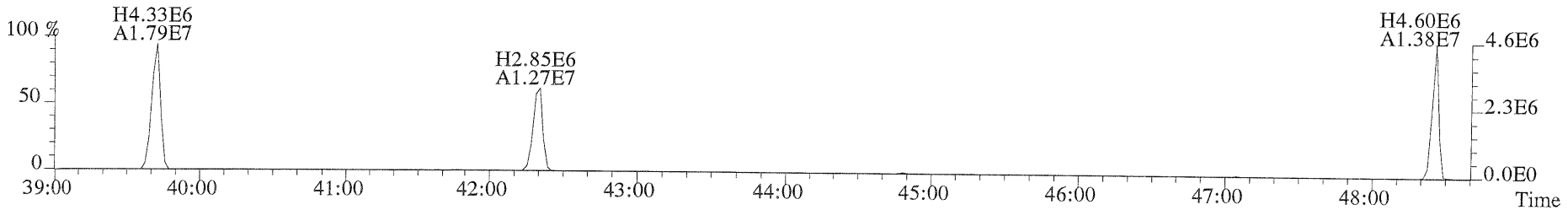
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



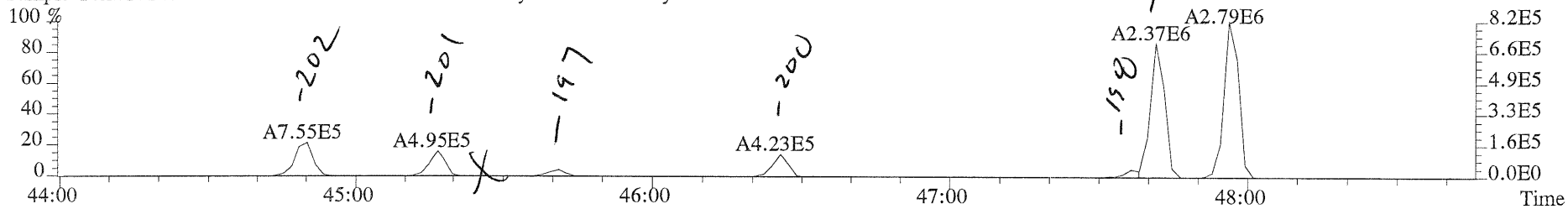
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



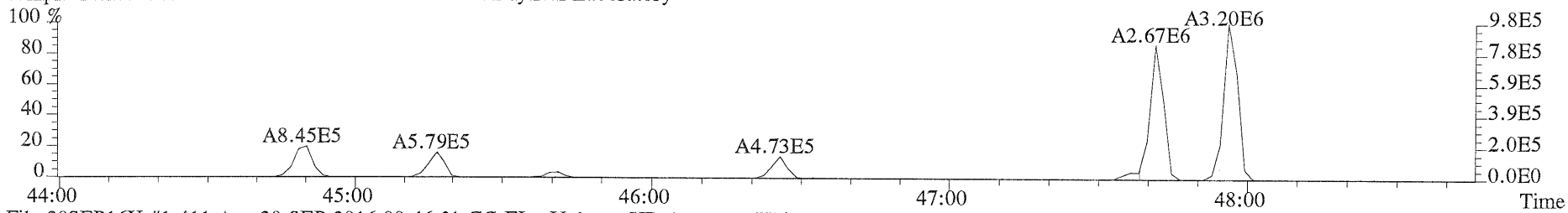
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



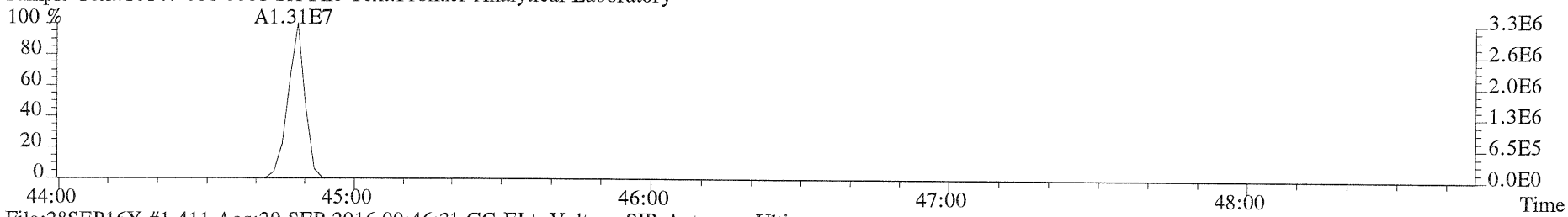
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



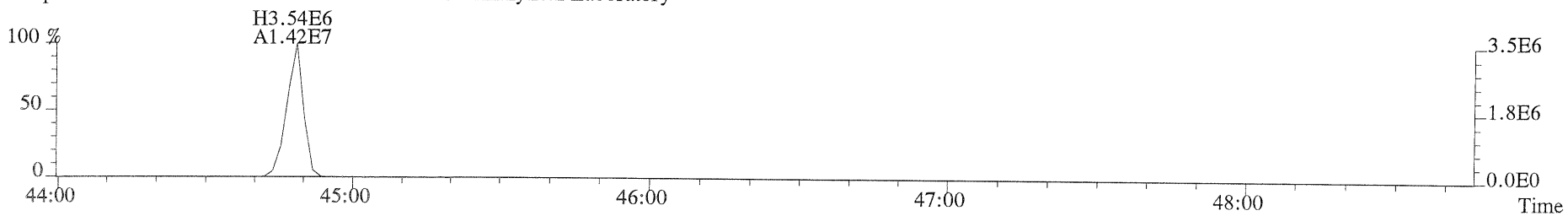
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



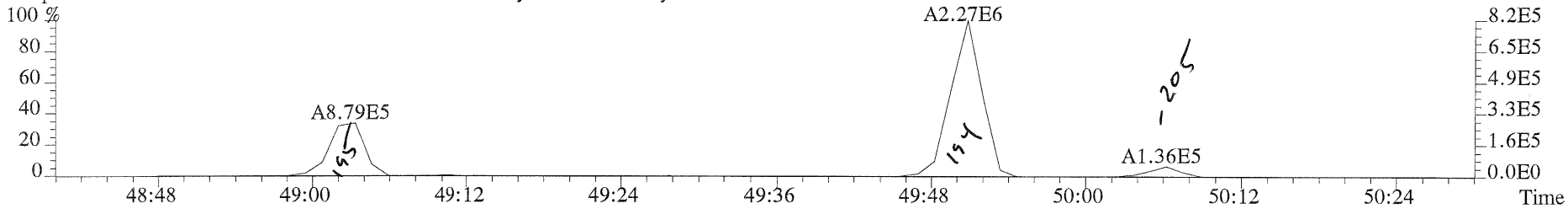
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



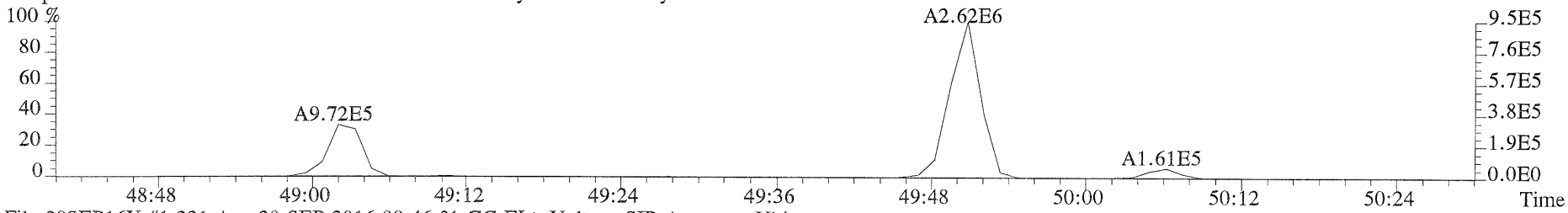
File:28SEP16Y #1-411 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



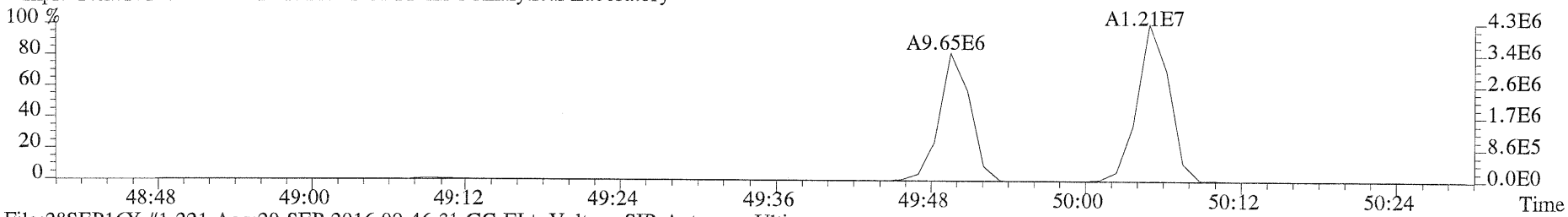
File:28SEP16Y #1-221 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



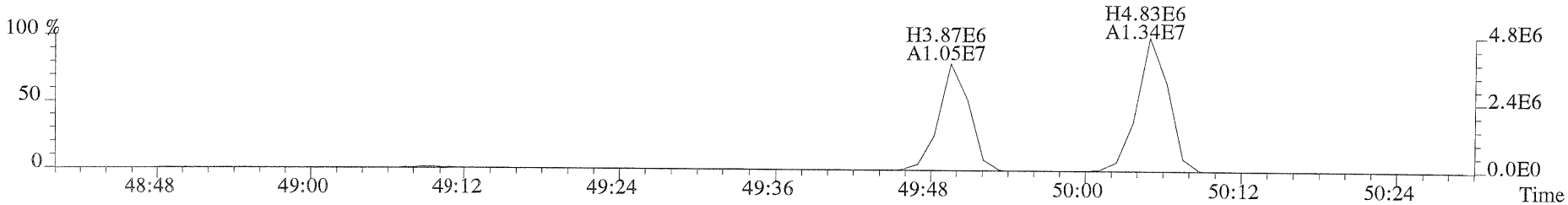
File:28SEP16Y #1-221 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



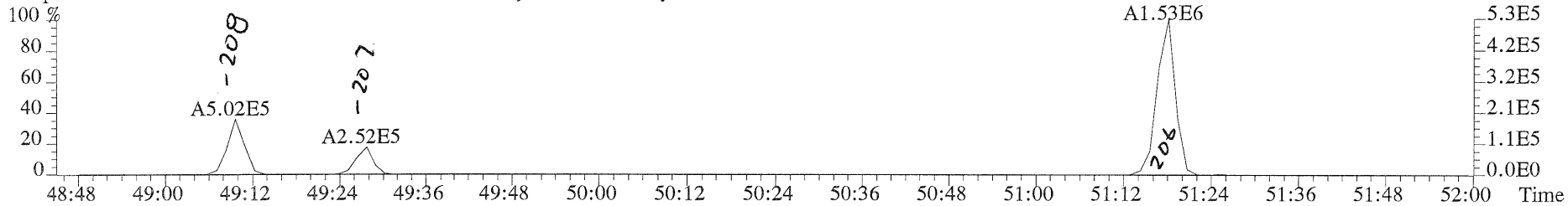
File:28SEP16Y #1-221 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



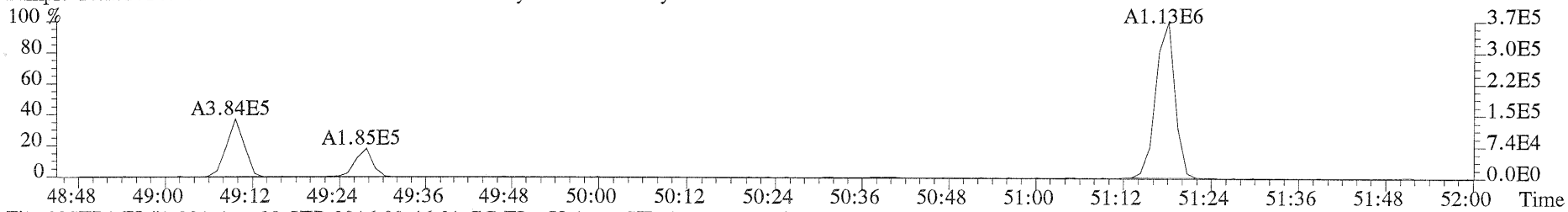
File:28SEP16Y #1-221 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



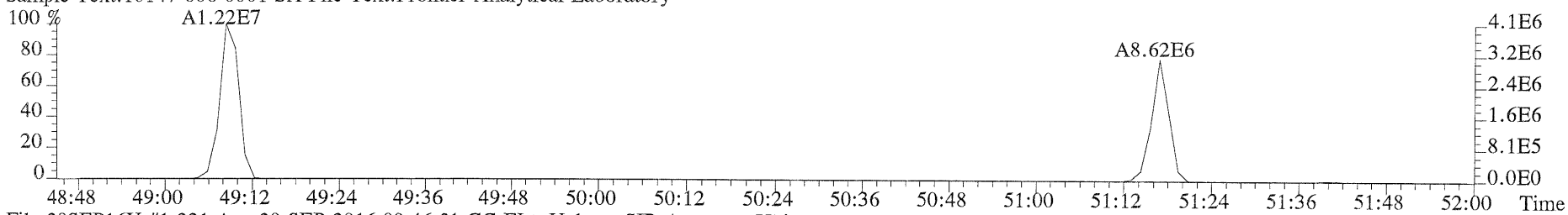
File:28SEP16Y #1-221 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



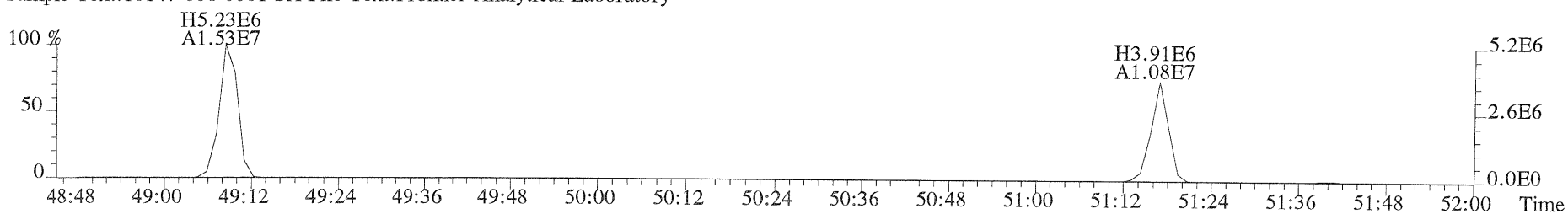
File:28SEP16Y #1-221 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



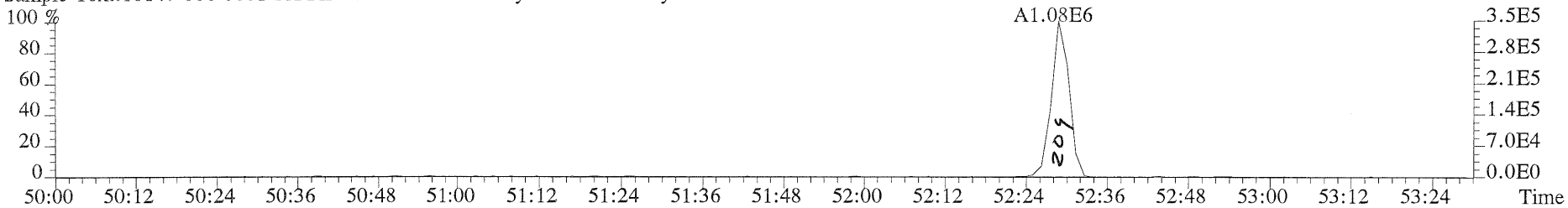
File:28SEP16Y #1-221 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



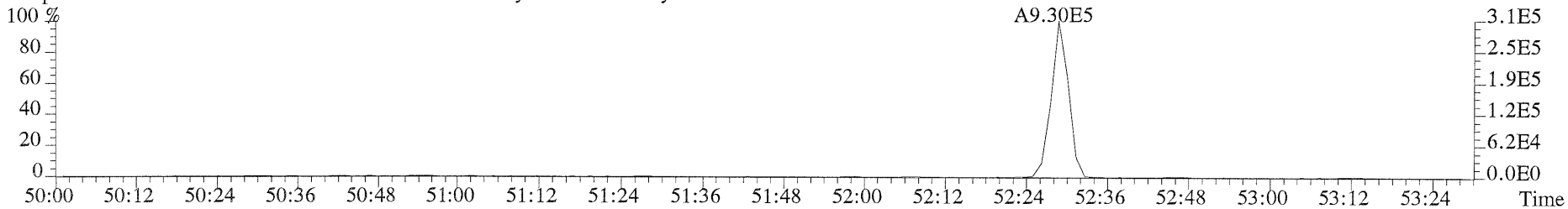
File:28SEP16Y #1-221 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



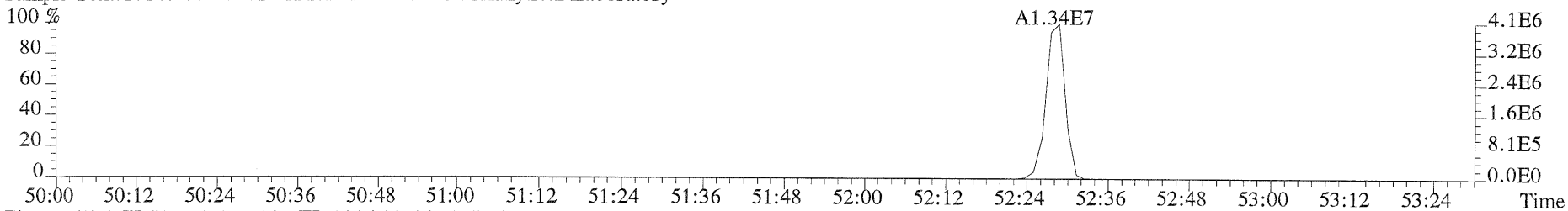
File:28SEP16Y #1-221 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



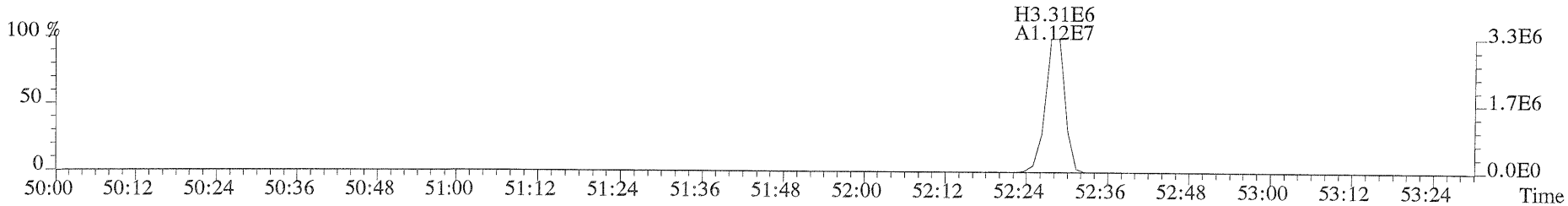
File:28SEP16Y #1-221 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 00:46:31 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:10147-006-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 00:46:31 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-006-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10147-007-0001-SA Filename: 28SEP16Y Sam:12 Acquired: 29-SEP-16 01:42:58 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-SC-ENR-CB-CORE ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.040

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	3.42e+05	3.04 y	14:31	1.00	8.83		-	-	*	
13C-PCB-1	7.69e+07	3.10 y	14:30	1.29	1410					70.8
PCB-2	8.37e+04	2.95 y	16:43	0.91	2.25	J	-	-	*	
PCB-3	3.00e+05	3.09 y	16:57	0.96	7.29		-	-	*	
13C-PCB-3	8.51e+07	3.15 y	16:56	1.26	1590					80.2
PCB-4	5.19e+05	1.49 y	18:12	0.95	23.0		-	-	*	
PCB-10	4.39e+04	1.56 y	18:15	1.14	1.23	J	-	-	*	
13C-PCB-4	4.70e+07	1.55 y	18:10	0.64	1730					87.1
PCB-9	1.58e+05	1.42 y	19:53	1.21	4.18		-	-	*	
PCB-7	1.67e+05	1.59 y	19:54	1.16	4.61		-	-	*	
PCB-6	1.17e+06	1.48 y	20:30	1.14	33.1		-	-	*	
PCB-8	3.47e+06	1.50 y	20:52	1.15	97.4		-	-	*	
PCB-5	*	* n	NotFnd	1.17	*		1800	1910	0.808	
PCB-14	*	* n	NotFnd	1.14	*		1800	1910	0.829	
PCB-11	3.23e+05	1.35 y	23:03	1.10	9.44		-	-	*	
PCB-13	3.91e+05	1.48 y	23:23	1.08	11.7		-	-	*	
PCB-12	8.80e+04	1.45 y	23:26	1.17	2.43	J	-	-	*	
PCB-15	2.52e+06	1.50 y	23:43	1.08	60.6		-	-	*	
13C-PCB-15	7.62e+07	1.58 y	23:42	1.00	1800					90.8
PCB-19	2.79e+05	1.13 y	22:05	1.04	12.4		-	-	*	
PCB-30	*	* n	NotFnd	1.45	*		1610	1720	0.925	
PCB-18	2.98e+06	1.04 y	23:38	1.01	136		-	-	*	
PCB-17	1.51e+06	1.08 y	23:48	1.08	64.7		-	-	*	
PCB-27	2.64e+05	1.17 y	24:19	1.55	7.88		-	-	*	
PCB-24	2.67e+05	1.20 y	24:20	1.32	9.35		-	-	*	
PCB-16	9.90e+05	1.07 y	24:48	1.15	39.9		-	-	*	
PCB-32	1.42e+06	1.06 y	24:50	1.34	49.2		-	-	*	
13C-PCB-19	4.28e+07	1.07 y	22:04	0.66	1530					76.9
13C-PCB-9	8.43e+07	1.57 y	19:51	-	10.1					
PCB-34	*	* n	NotFnd	0.81	*		654	511	1.11	
PCB-23	*	* n	NotFnd	0.90	*		654	511	1.00	
PCB-29	*	* n	NotFnd	0.90	*		654	511	1.01	
PCB-26	1.50e+06	1.03 y	26:06	0.97	93.1		-	-	*	
PCB-25	1.02e+06	1.02 y	26:16	1.21	50.5		-	-	*	
PCB-31	5.54e+06	0.98 y	26:35	0.97	341		-	-	*	
PCB-28	6.55e+06	1.02 y	26:41	1.08	365		-	-	*	
PCB-20	3.09e+06	1.02 y	27:18	1.02	182		-	-	*	Co-elute PCB 21/33
PCB-21	3.09e+06	1.02 y	27:18	1.02	182		-	-	*	Co-elute PCB 20/33
PCB-33	3.09e+06	1.02 y	27:18	1.02	182		-	-	*	Co-elute PCB 20/21
PCB-22	1.83e+06	1.00 y	27:42	1.08	102		-	-	*	
PCB-36	*	* n	NotFnd	0.96	*		654	511	0.943	
PCB-39	*	* n	NotFnd	1.00	*		654	511	0.907	
PCB-38	*	* n	NotFnd	0.91	*		654	511	0.991	
PCB-35	*	* n	NotFnd	1.01	*		654	511	0.894	
PCB-37	1.49e+06	0.99 y	30:28	1.08	82.8		-	-	*	
13C-PCB-37	3.31e+07	1.01 y	30:26	1.03	1510					76.0

PCB-54	*	*	n	NotFnd	1.04	*		750	987	0.642	
PCB-50	*	*	n	NotFnd	0.79	*		750	987	0.846	
PCB-53	8.47e+05	0.78	y	27:20	0.80	42.6		-	-	*	
PCB-51	3.24e+05	0.82	y	27:39	0.84	15.5		-	-	*	
PCB-45	5.74e+05	0.82	y	28:04	0.72	32.1		-	-	*	
PCB-46	2.19e+05	0.85	y	28:31	0.69	12.7		-	-	*	
PCB-52	7.00e+06	0.78	y	28:59	0.99	283		-	-	*	Co-elute PCB 69
PCB-69	7.00e+06	0.78	y	28:59	0.99	283		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.07	*		750	987	0.627	
PCB-43	4.18e+06	0.78	y	29:16	0.79	213		-	-	*	Co-elute PCB 49
PCB-49	4.18e+06	0.78	y	29:16	0.79	213		-	-	*	Co-elute PCB 43
PCB-47	1.49e+06	0.78	y	29:28	1.07	56.0		-	-	*	
PCB-48	9.22e+05	0.77	y	29:35	0.94	39.3		-	-	*	Co-elute PCB 75
PCB-75	9.22e+05	0.77	y	29:35	0.94	39.3		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*		750	987	0.677	
PCB-62	*	*	n	NotFnd	0.99	*		750	987	0.674	
PCB-44	2.77e+06	0.78	y	30:17	0.73	151		-	-	*	
PCB-42	1.30e+06	0.78	y	30:31	0.98	52.9		-	-	*	Co-elute PCB 59
PCB-59	1.30e+06	0.78	y	30:31	0.98	52.9		-	-	*	Co-elute PCB 42
PCB-72	3.17e+06	0.78	y	31:09	1.09	117		-	-	*	Co-elute PCB 41/71/64
PCB-41	3.17e+06	0.78	y	31:09	1.09	117		-	-	*	Co-elute PCB 72/71/64
PCB-71	3.17e+06	0.78	y	31:09	1.09	117		-	-	*	Co-elute PCB 72/41/64
PCB-64	3.17e+06	0.78	y	31:09	1.09	117		-	-	*	Co-elute PCB 72/41/71
PCB-68	6.44e+04	0.83	y	31:25	1.12	2.29	J	-	-	*	
PCB-40	4.42e+05	0.74	y	31:35	0.63	27.9		-	-	*	
PCB-57	5.87e+04	0.78	y	31:51	1.08	2.17	J	-	-	*	
PCB-67	2.97e+05	0.83	y	32:06	1.07	11.1		-	-	*	
PCB-58	2.91e+04	0.76	y	32:12	1.08	1.08	J	-	-	*	
PCB-63	3.22e+05	0.79	y	32:21	1.08	11.9		-	-	*	
PCB-74	3.92e+06	0.79	y	32:37	1.18	133		-	-	*	
PCB-61	9.06e+06	0.79	y	32:49	1.15	314		-	-	*	Co-elute PCB 70
PCB-70	9.06e+06	0.79	y	32:49	1.15	314		-	-	*	Co-elute PCB 61
PCB-76	8.33e+06	0.77	y	33:00	1.13	294		-	-	*	Co-elute PCB 66
PCB-66	8.33e+06	0.77	y	33:00	1.13	294		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.27	*		750	987	0.528	
PCB-55	1.85e+05	0.78	y	33:29	1.13	6.55		-	-	*	
13C-PCB-54	4.96e+07	0.81	y	25:35	1.09	2130					107
PCB-104	*	*	n	NotFnd	1.13	*		454	454	0.797	
PCB-96	6.76e+04	1.58	y	31:25	1.06	4.94		-	-	*	
PCB-103	2.00e+05	1.46	y	31:49	0.88	17.5		-	-	*	
PCB-100	1.37e+05	1.60	y	32:10	0.87	12.2		-	-	*	
PCB-94	5.18e+04	1.58	y	32:35	0.74	5.37		-	-	*	
PCB-98	*	*	n	NotFnd	1.06	*		454	454	0.851	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	1.06	*		454	454	0.851	Co-elute PCB 98
PCB-95	8.75e+06	1.59	y	33:05	0.63	1060		-	-	*	
PCB-93	*	*	n	NotFnd	0.63	*		454	454	1.43	
PCB-88	1.59e+06	1.54	y	33:27	0.83	148		-	-	*	Co-elute PCB 91
PCB-91	1.59e+06	1.54	y	33:27	0.83	148		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.99	*		454	454	0.911	
13C-PCB-104	2.57e+07	1.64	y	30:06	0.98	1230					62.0
13C-PCB-28	5.74e+07	1.01	y	26:40	1.01	2650					134
13C-PCB-52	4.24e+07	0.80	y	28:57	-	7.08					

PCB-56	3.23e+06	0.74	y	33:58	0.89	162		-	-	*	Co-elute PCB 60
PCB-60	3.23e+06	0.74	y	33:58	0.89	162		-	-	*	Co-elute PCB 56
PCB-79	7.53e+04	0.68	y	35:00	1.00	3.37	J	-	-	*	
PCB-78	*	*	n	NotFnd	0.97	*		789	987	0.848	
PCB-81	1.43e+05	0.74	y	36:11	1.07	5.94		-	-	*	
13C-PCB-81	4.48e+07	0.80	y	36:07	0.96	2140					108
PCB-77	6.97e+05	0.72	y	36:41	1.01	31.4		-	-	*	
13C-PCB-77	4.36e+07	0.80	y	36:40	1.02	1960					99.0
PCB-155	*	*	n	NotFnd	1.05	*		756	811	0.753	
PCB-150	8.74e+04	1.32	y	35:24	0.96	4.45		-	-	*	
PCB-152	*	*	n	NotFnd	0.94	*		756	811	0.842	
PCB-145	*	*	n	NotFnd	0.94	*		756	811	0.847	
PCB-136	2.96e+06	1.23	y	36:36	0.94	153		-	-	*	
PCB-148	*	*	n	NotFnd	0.68	*		756	811	1.17	
PCB-154	4.46e+05	1.23	y	37:09	0.80	27.2		-	-	*	
13C-PCB-155	4.07e+07	1.25	y	34:13	1.15	1630					82.0
13C-PCB-111	5.06e+07	1.59	y	36:17	1.14	2040					103
13C-PCB-101	4.31e+07	1.58	y	34:38	-	7.53					
PCB-84	4.39e+06	1.53	y	34:18	0.87	256		-	-	*	Co-elute PCB 92
PCB-92	4.39e+06	1.53	y	34:18	0.87	256		-	-	*	Co-elute PCB 84
PCB-89	8.84e+04	1.44	y	34:28	0.86	5.19		-	-	*	
PCB-90	1.33e+07	1.56	y	34:40	0.98	686		-	-	*	Co-elute PCB 101
PCB-101	1.33e+07	1.56	y	34:40	0.98	686		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.12	*		801	755	0.739	
PCB-99	5.81e+06	1.56	y	34:59	1.06	277		-	-	*	
PCB-119	5.19e+05	1.60	y	35:25	1.26	20.9		-	-	*	
PCB-83	5.44e+05	1.56	y	35:34	1.00	27.5		-	-	*	Co-elute PCB 112
PCB-112	5.44e+05	1.56	y	35:34	1.00	27.5		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.13	*		801	755	0.733	
PCB-97	3.06e+06	1.59	y	35:53	1.06	146		-	-	*	
PCB-86	*	*	n	NotFnd	0.88	*		801	755	0.935	
PCB-125	4.68e+06	1.56	y	36:09	1.13	209		-	-	*	Co-elute PCB 87/117
PCB-87	4.68e+06	1.56	y	36:09	1.13	209		-	-	*	Co-elute PCB 125/117
PCB-117	4.68e+06	1.56	y	36:09	1.13	209		-	-	*	Co-elute PCB 125/87
PCB-111	2.42e+05	1.48	y	36:18	1.45	8.46		-	-	*	Co-elute PCB 115
PCB-115	2.42e+05	1.48	y	36:18	1.45	8.46		-	-	*	Co-elute PCB 111
PCB-85	1.88e+06	1.55	y	36:25	1.02	93.6		-	-	*	Co-elute PCB 116
PCB-116	1.88e+06	1.55	y	36:25	1.02	93.6		-	-	*	Co-elute PCB 85
PCB-120	9.41e+04	1.38	y	36:37	1.34	3.57	J	-	-	*	
PCB-110	1.54e+07	1.56	y	36:46	1.30	600		-	-	*	
PCB-82	9.60e+05	1.57	y	37:23	0.75	64.8		-	-	*	
PCB-124	4.43e+05	1.46	y	38:02	0.99	22.6		-	-	*	
PCB-108	7.99e+05	1.44	y	38:12	0.95	42.6		-	-	*	Co-elute PCB 107
PCB-107	7.99e+05	1.44	y	38:12	0.95	42.6		-	-	*	Co-elute PCB 108
PCB-123	2.03e+05	1.54	y	38:20	1.08	9.68		-	-	*	
13C-PCB-123	3.84e+07	1.52	y	38:18	0.97	2150					108
PCB-118	9.91e+06	1.48	y	38:30	0.91	555		-	-	*	Co-elute PCB 106
PCB-106	9.91e+06	1.48	y	38:30	0.91	555		-	-	*	Co-elute PCB 118
13C-PCB-118	3.90e+07	1.53	y	38:28	1.06	2010					101
PCB-114	2.49e+05	1.46	y	39:08	0.97	13.0		-	-	*	
13C-PCB-114	3.93e+07	1.57	y	39:06	1.04	2060					104
PCB-122	1.24e+05	1.42	y	39:14	0.95	6.65		-	-	*	
PCB-105	4.33e+06	1.53	y	39:55	0.94	228		-	-	*	
13C-PCB-105	4.00e+07	1.55	y	39:54	1.03	2100					106

FAL ID: 10147-007-0001-SA Filename: 28SEP16Y Sam:12 Acquired: 29-SEP-16 01:42:58 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-SC-ENR-CB-CORE ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.040

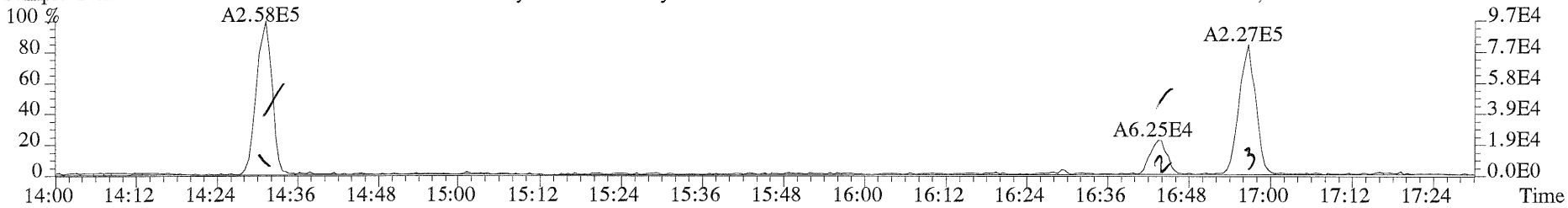
PCB-127	*	*	n	NotFnd	0.86	*		701	812	0.937		
PCB-126	5.75e+04	1.41	y	42:02	0.98	3.12	J	-	-	*		
13C-PCB-126	3.73e+07	1.57	y	42:00	0.91	2220					112	
PCB-151	4.09e+06	1.21	y	37:47	0.82	251		-	-	*		
PCB-135	2.21e+06	1.26	y	37:59	0.88	126		-	-	*		
PCB-144	9.02e+05	1.22	y	38:05	0.82	55.3		-	-	*		
PCB-147	3.29e+05	1.21	y	38:12	0.86	19.1		-	-	*		
PCB-139	1.54e+07	1.23	y	38:26	0.90	854		-	-	*	Co-elute PCB 149	
PCB-149	1.54e+07	1.23	y	38:26	0.90	854		-	-	*	Co-elute PCB 139	
PCB-140	1.12e+05	1.07	y	38:38	0.83	6.73		-	-	*		
PCB-143	7.77e+05	1.29	y	39:03	0.82	47.4		-	-	*	Co-elute PCB 134	
PCB-134	7.77e+05	1.29	y	39:03	0.82	47.4		-	-	*	Co-elute PCB 143	
PCB-131	4.65e+05	1.18	y	39:19	0.83	28.1		-	-	*	Co-elute PCB 133	
PCB-133	4.65e+05	1.18	y	39:19	0.83	28.1		-	-	*	Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.71	*		811	856	1.18		
PCB-165	3.07e+06	1.24	y	39:41	0.97	158		-	-	*	Co-elute PCB 146	
PCB-146	3.07e+06	1.24	y	39:41	0.97	158		-	-	*	Co-elute PCB 165	
PCB-161	4.69e+06	1.23	y	39:57	0.92	255		-	-	*	Co-elute PCB 132	
PCB-132	4.69e+06	1.23	y	39:57	0.92	255		-	-	*	Co-elute PCB 161	
PCB-153	2.10e+07	1.26	y	40:04	0.95	1110		-	-	*		
PCB-168	4.60e+04	1.19	y	40:15	1.05	2.18	J	-	-	*		
PCB-141	3.19e+06	1.22	y	40:46	0.81	196		-	-	*		
PCB-137	5.16e+05	1.10	y	41:08	0.76	34.1		-	-	*		
PCB-130	9.90e+05	1.21	y	41:13	0.74	66.6		-	-	*		
PCB-138	2.06e+07	1.24	y	41:34	1.10	936		-	-	*	Co-elute PCB 163/164	
PCB-163	2.06e+07	1.24	y	41:34	1.10	936		-	-	*	Co-elute PCB 138/164	
PCB-164	2.06e+07	1.24	y	41:34	1.10	936		-	-	*	Co-elute PCB 138/163	
PCB-158	2.25e+06	1.23	y	41:47	1.06	107		-	-	*	Co-elute PCB 160	
PCB-160	2.25e+06	1.23	y	41:47	1.06	107		-	-	*	Co-elute PCB 158	
PCB-129	5.04e+05	1.26	y	42:02	0.66	38.0		-	-	*		
PCB-166	7.49e+04	1.37	y	42:28	0.99	3.78	J	-	-	*		
PCB-159	3.39e+05	1.22	y	42:50	1.05	16.1		-	-	*		
PCB-128	2.59e+06	1.23	y	43:01	0.90	144		-	-	*	Co-elute PCB 162	
PCB-162	2.59e+06	1.23	y	43:01	0.90	144		-	-	*	Co-elute PCB 128	
PCB-167	8.36e+05	1.30	y	43:24	0.94	42.2		-	-	*		
13C-PCB-167	4.18e+07	1.23	y	43:23	1.12	2020					102	
PCB-156	2.06e+06	1.24	y	44:38	0.99	105		-	-	*		
13C-PCB-156	3.94e+07	1.24	y	44:37	1.07	2000					101	
PCB-157	3.95e+05	1.31	y	44:53	0.94	20.6		-	-	*		
13C-PCB-157	4.03e+07	1.25	y	44:52	1.10	2000					101	
PCB-169	*	*	n	NotFnd	0.95	*		811	856	0.843		
13C-PCB-169	3.73e+07	1.22	y	46:44	0.98	2060					104	

FAL ID: 10147-007-0001-SA Filename: 28SEP16Y Sam:12 Acquired: 29-SEP-16 01:42:58 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-SC-ENR-CB-CORE ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.040

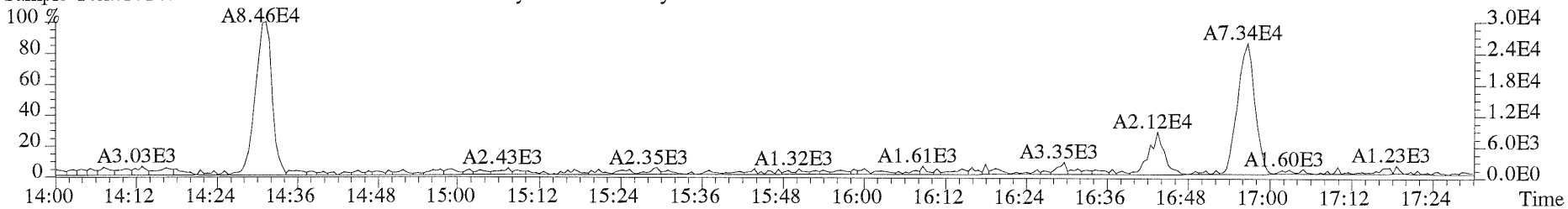
PCB-188	*	*	n	NotFnd	1.11	*		789	799	0.862	
13C-PCB-188	3.58e+07	1.06	y	39:41	1.23	1580					79.6
PCB-184	*	*	n	NotFnd	1.25	*		799	799	0.796	
PCB-179	3.10e+06	1.08	y	40:51	1.23	158		-	-	*	
PCB-176	1.06e+06	1.13	y	41:18	1.19	55.5		-	-	*	
PCB-186	*	*	n	NotFnd	1.18	*		799	799	0.843	
PCB-178	1.18e+06	1.03	y	42:20	0.85	86.3		-	-	*	
PCB-175	2.76e+05	1.12	y	42:40	0.89	19.3		-	-	*	
PCB-187	7.56e+06	1.08	y	42:50	0.95	497		-	-	*	Co-elute PCB 182
PCB-182	7.56e+06	1.08	y	42:50	0.95	497		-	-	*	Co-elute PCB 187
PCB-183	3.65e+06	1.07	y	43:08	0.95	240		-	-	*	
PCB-185	6.18e+05	1.08	y	43:46	0.86	45.0		-	-	*	
PCB-174	5.12e+06	1.05	y	44:06	0.89	358		-	-	*	
PCB-181	*	*	n	NotFnd	0.82	*		799	799	1.21	
PCB-177	3.14e+06	1.06	y	44:22	0.74	264		-	-	*	
PCB-171	1.50e+06	1.07	y	44:38	0.82	114		-	-	*	
PCB-173	1.15e+05	1.00	y	45:03	0.73	9.83		-	-	*	
PCB-172	8.91e+05	1.01	y	45:26	0.75	74.4		-	-	*	
PCB-192	*	*	n	NotFnd	0.96	*		799	799	1.03	
PCB-180	1.14e+07	1.05	y	45:48	0.98	726		-	-	*	
PCB-193	7.94e+05	0.99	y	45:57	1.05	47.1		-	-	*	
PCB-191	2.77e+05	1.17	y	46:11	0.97	17.8		-	-	*	
PCB-170	4.77e+06	1.06	y	47:05	0.64	461		-	-	*	
PCB-190	1.32e+06	1.11	y	47:13	0.88	93.3		-	-	*	
PCB-189	2.33e+05	1.01	y	48:26	1.10	15.2		-	-	*	
13C-PCB-189	2.78e+07	1.04	y	48:24	0.90	1680					84.6
PCB-202	5.40e+05	0.92	y	44:48	0.95	41.5		-	-	*	
PCB-201	3.44e+05	0.85	y	45:16	0.92	27.1		-	-	*	
PCB-204	*	*	n	NotFnd	0.92	*		599	587	1.03	
PCB-197	1.18e+05	0.99	y	45:39	0.93	9.27		-	-	*	
PCB-200	3.11e+05	0.78	y	46:25	0.88	25.6		-	-	*	
PCB-198	1.15e+05	0.84	y	47:36	0.60	14.0		-	-	*	
PCB-199	1.87e+06	0.87	y	47:41	0.55	246		-	-	*	
PCB-203	2.23e+06	0.83	y	47:56	0.64	252		-	-	*	Co-elute PCB 196
PCB-196	2.23e+06	0.83	y	47:56	0.64	252		-	-	*	Co-elute PCB 203
13C-PCB-202	2.73e+07	0.89	y	44:48	1.00	1480					74.5
13C-PCB-178	2.94e+07	1.08	y	42:19	0.84	1910					96.1
13C-PCB-138	3.65e+07	1.24	y	41:32	-	7.42					
PCB-195	7.37e+05	0.88	y	49:02	0.75	74.1		-	-	*	
PCB-194	2.08e+06	0.89	y	49:51	0.76	205		-	-	*	
PCB-205	1.24e+05	0.78	y	50:05	1.00	9.28		-	-	*	
13C-PCB-205	2.64e+07	0.90	y	50:05	1.27	1780					89.7
PCB-208	2.61e+05	1.30	y	49:09	0.93	20.1		-	-	*	
13C-PCB-208	2.77e+07	0.79	y	49:08	1.49	1590					80.0
PCB-207	1.30e+05	1.38	y	49:27	1.00	10.9		-	-	*	
PCB-206	7.55e+05	1.31	y	51:17	0.99	76.5		-	-	*	
13C-PCB-206	1.97e+07	0.80	y	51:17	1.02	1650					83.4
PCB-209	3.66e+05	1.12	y	52:29	1.06	27.1		-	-	*	
13C-PCB-209	2.54e+07	1.18	y	52:27	1.58	1380					69.6
13C-PCB-194	2.32e+07	0.92	y	49:49	-	8.77					

Analyst: _____ Date: 10/7/16

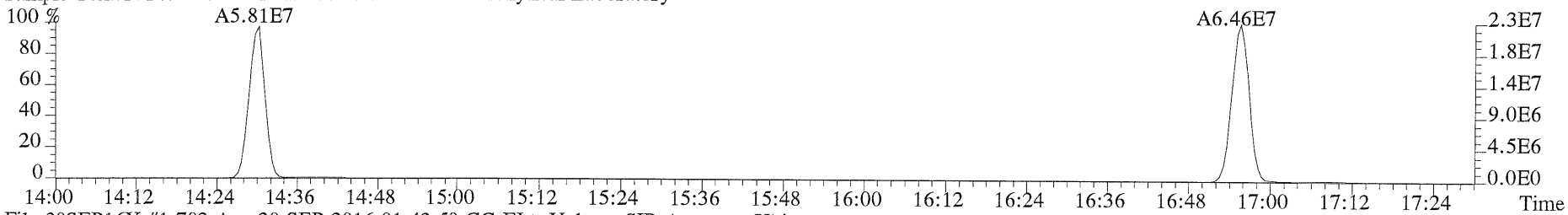
File:28SEP16Y #1-783 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-783 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-783 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-783 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
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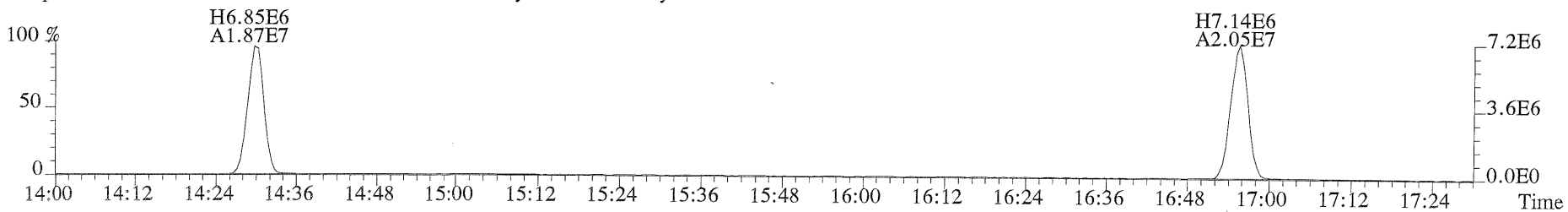
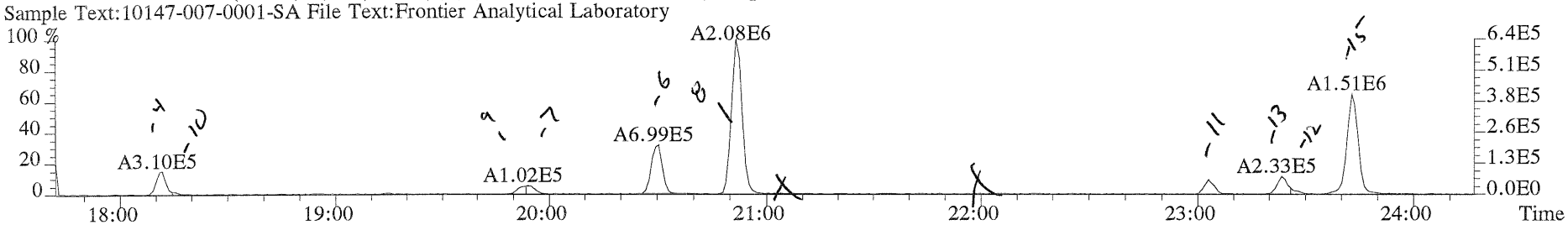
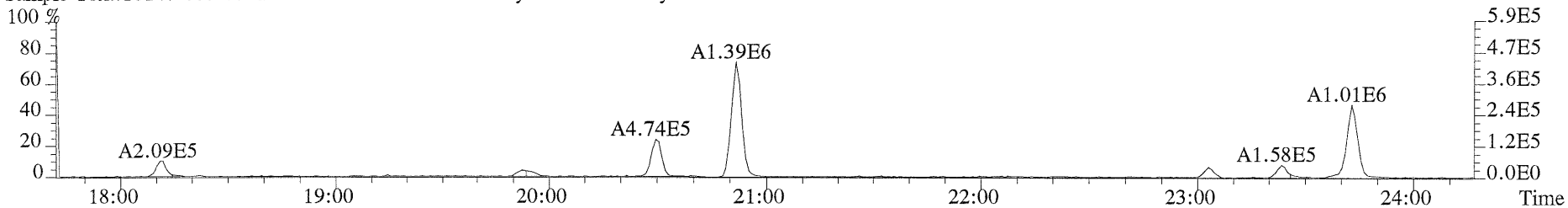
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



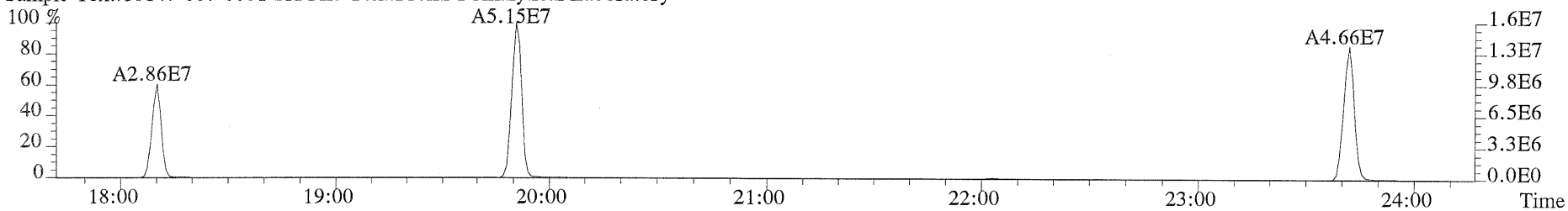
File:28SEP16Y #1-509 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



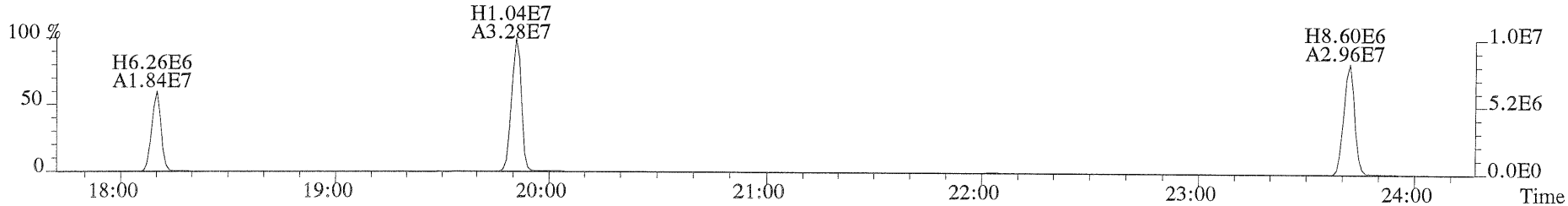
File:28SEP16Y #1-509 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



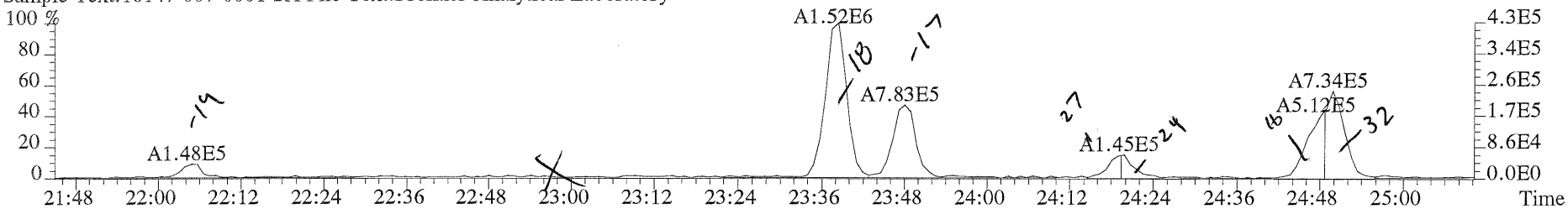
File:28SEP16Y #1-509 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



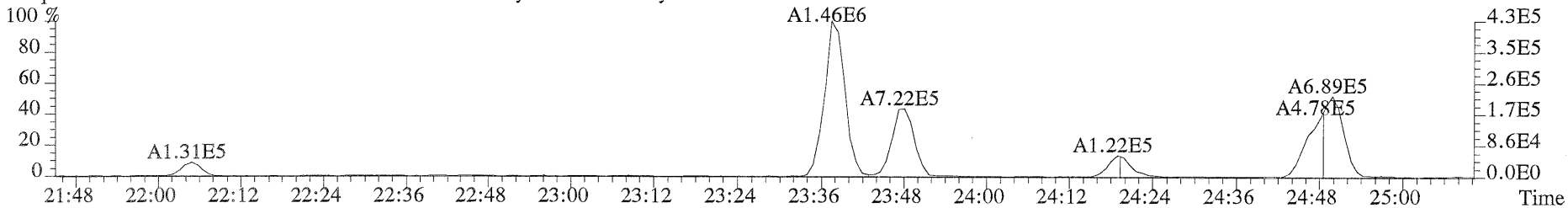
File:28SEP16Y #1-509 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



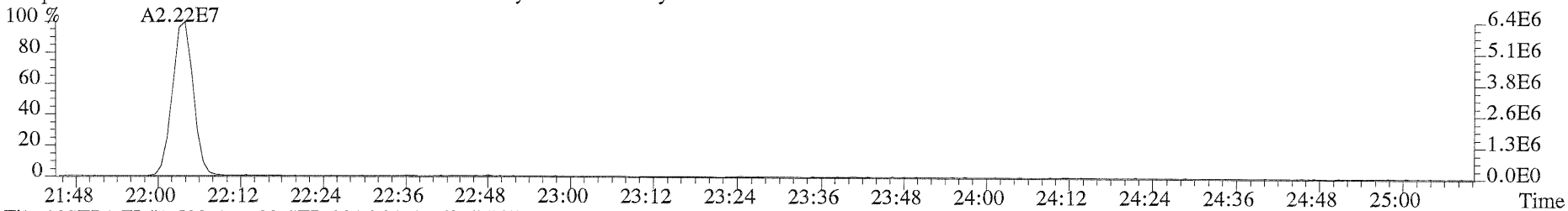
File:28SEP16Y #1-509 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



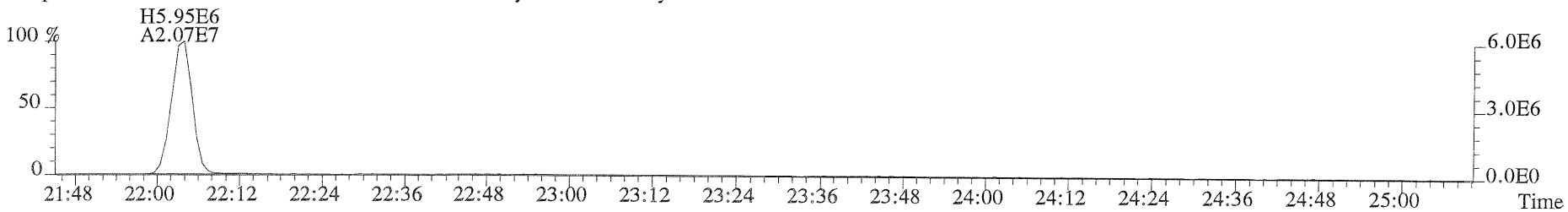
File:28SEP16Y #1-509 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



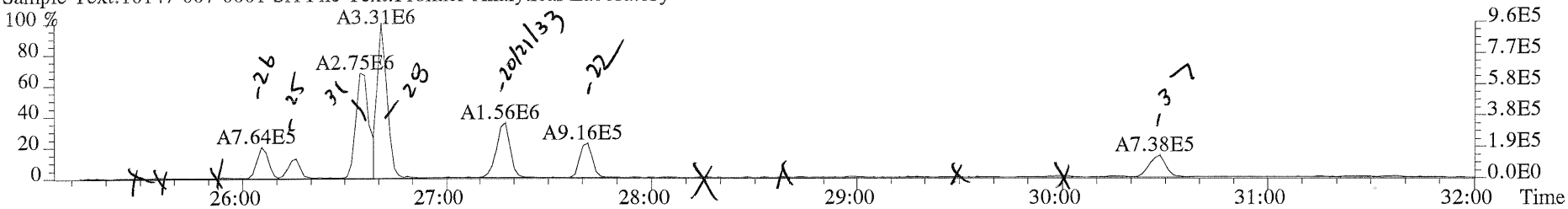
File:28SEP16Y #1-509 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



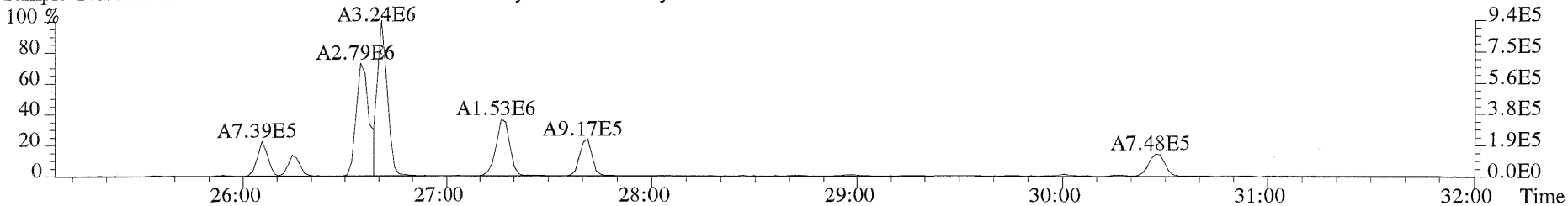
File:28SEP16Y #1-509 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-403 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-403 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



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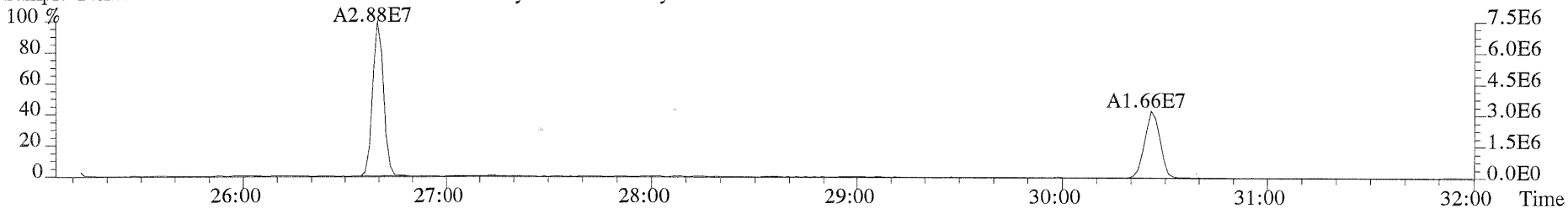
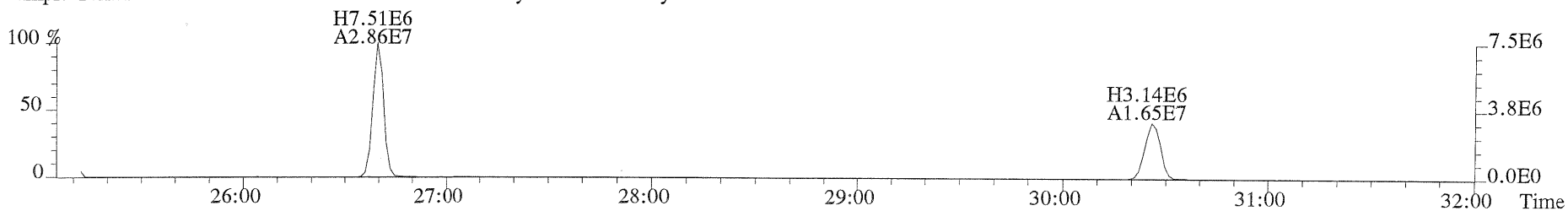
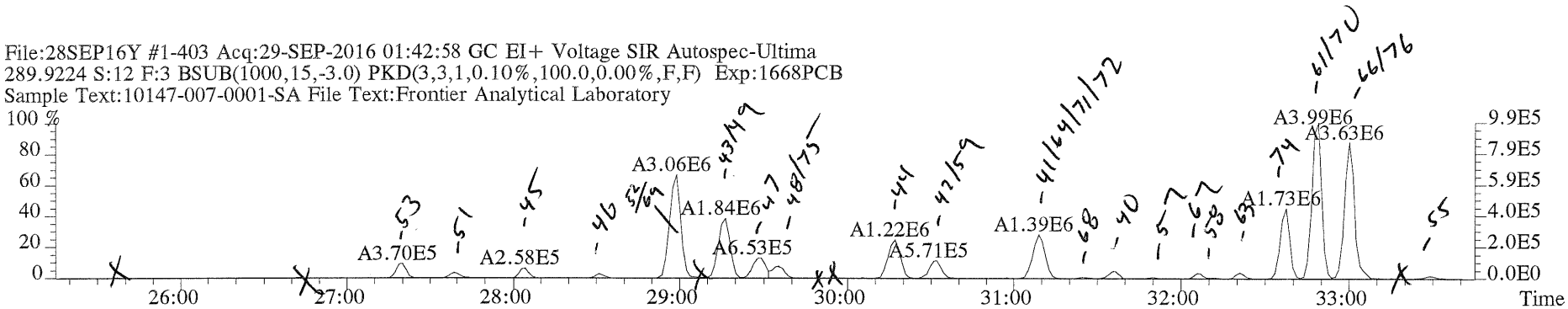
268.0016 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



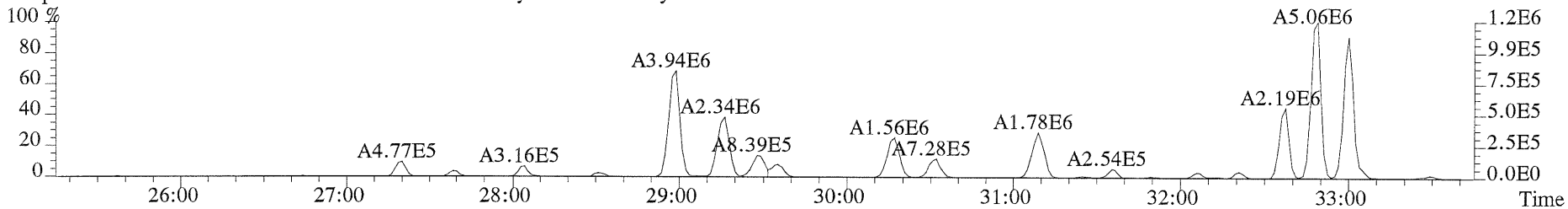
File:28SEP16Y #1-403 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



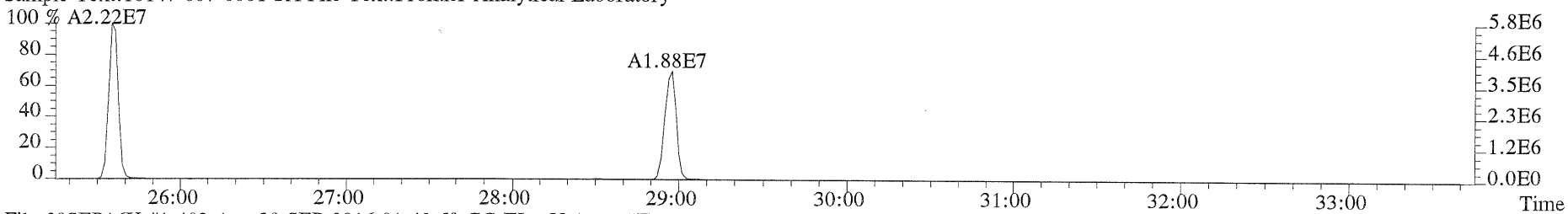
File:28SEP16Y #1-403 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



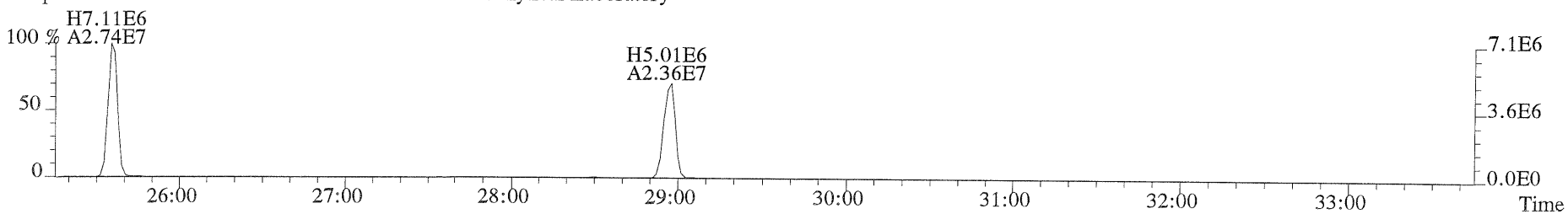
File:28SEP16Y #1-403 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



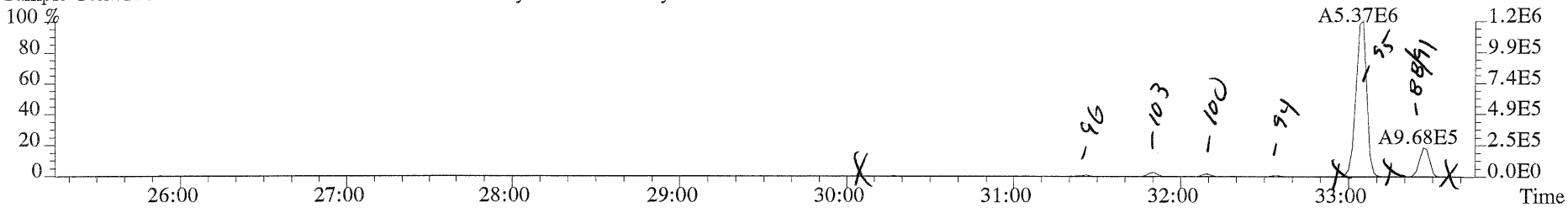
File:28SEP16Y #1-403 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



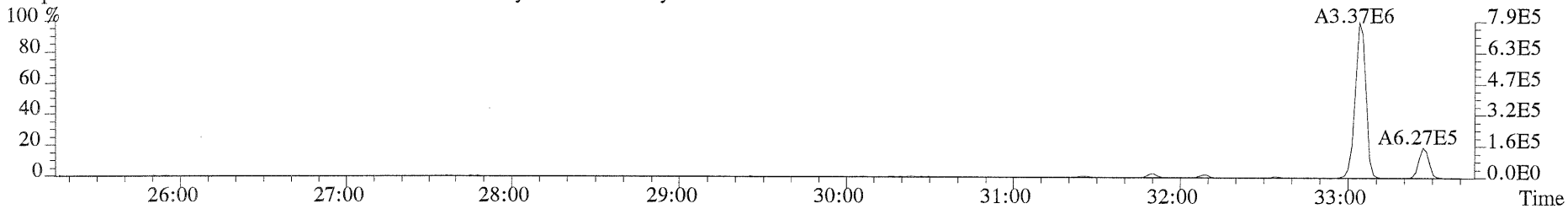
File:28SEP16Y #1-403 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



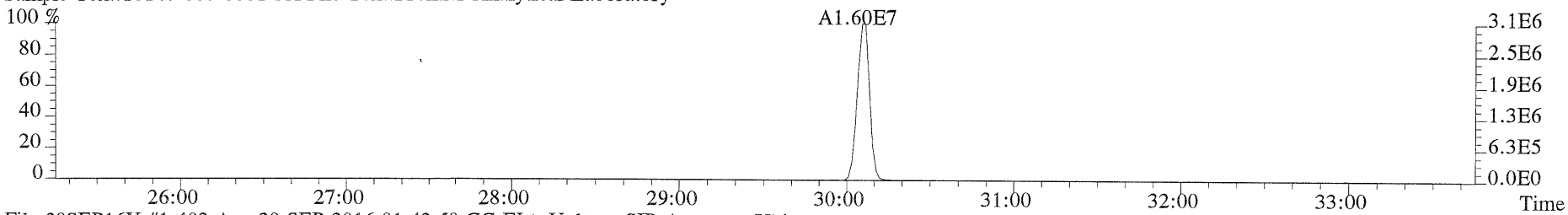
File:28SEP16Y #1-403 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



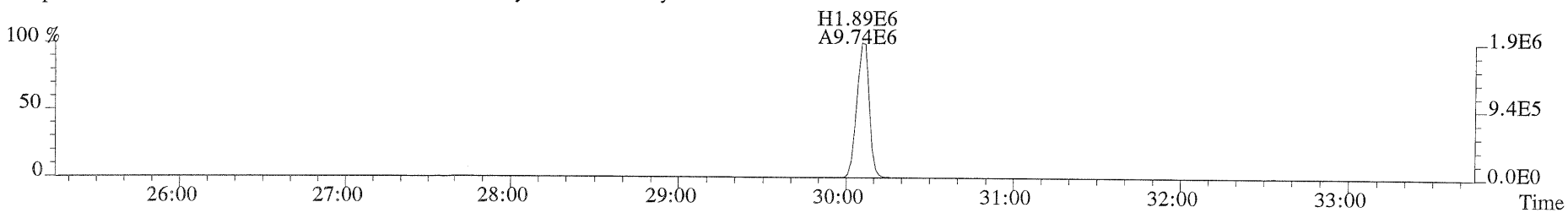
File:28SEP16Y #1-403 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



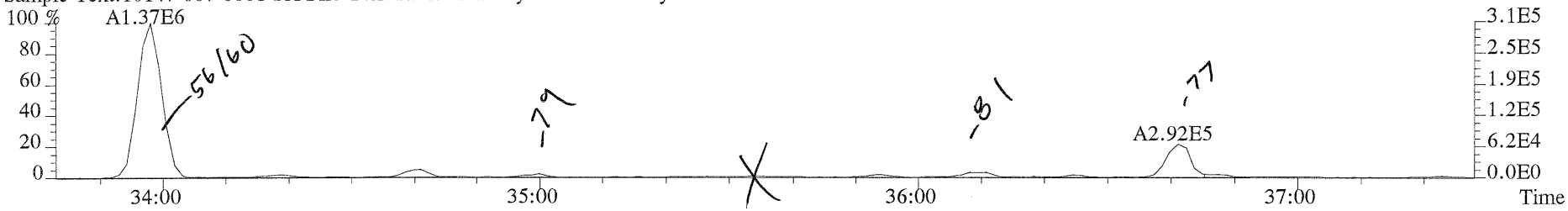
File:28SEP16Y #1-403 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



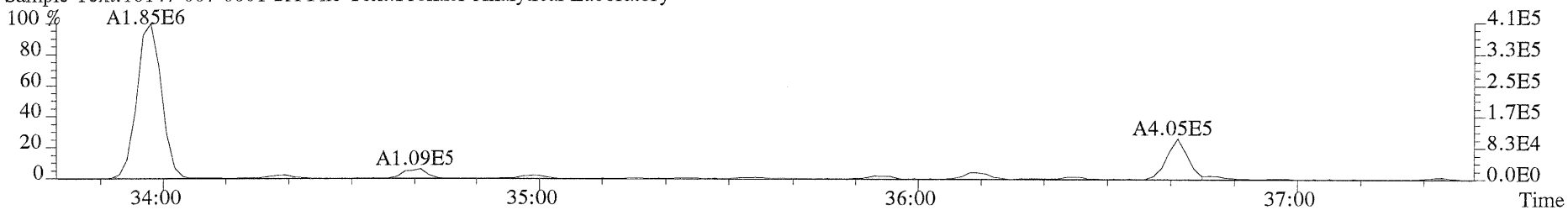
File:28SEP16Y #1-403 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



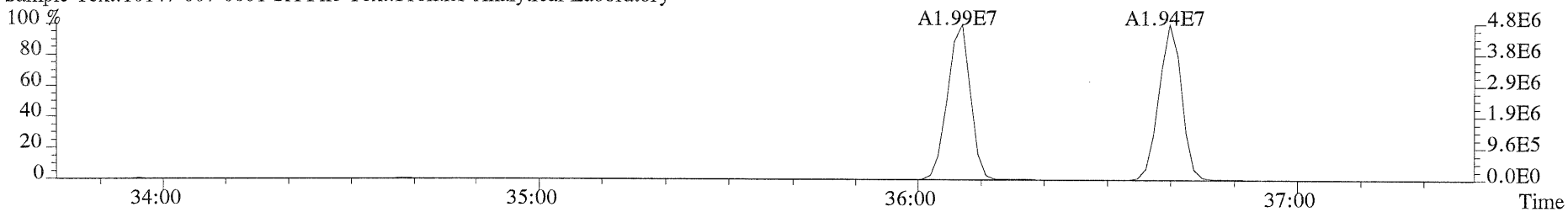
File:28SEP16Y #1-179 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



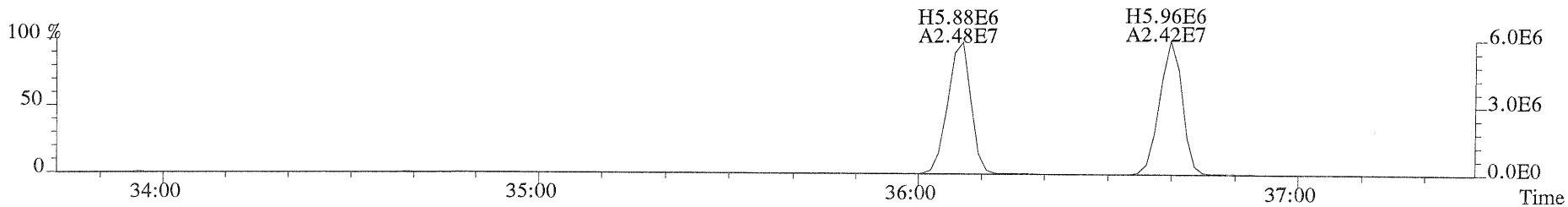
File:28SEP16Y #1-179 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



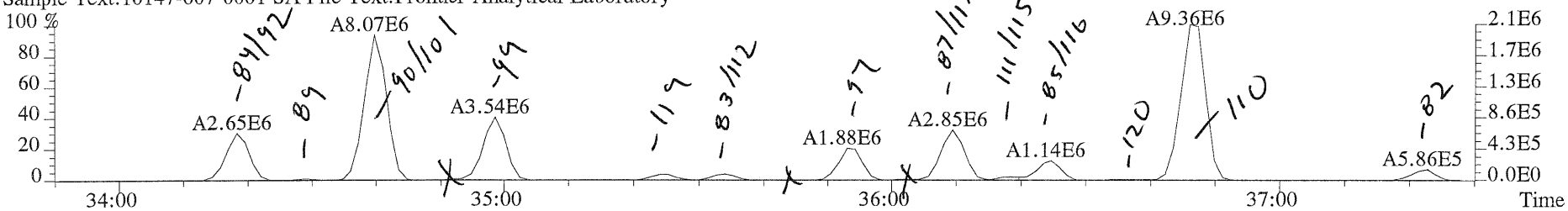
File:28SEP16Y #1-179 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



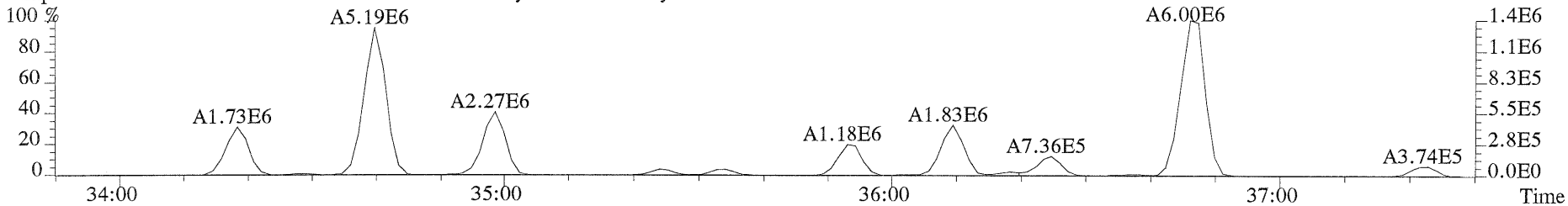
File:28SEP16Y #1-179 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



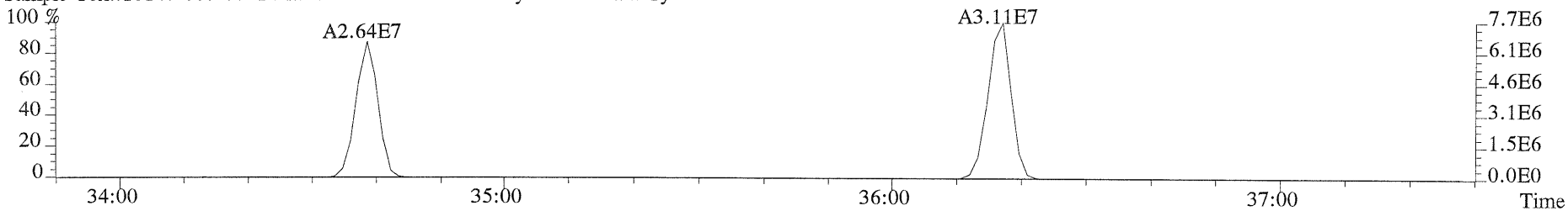
File:28SEP16Y #1-179 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



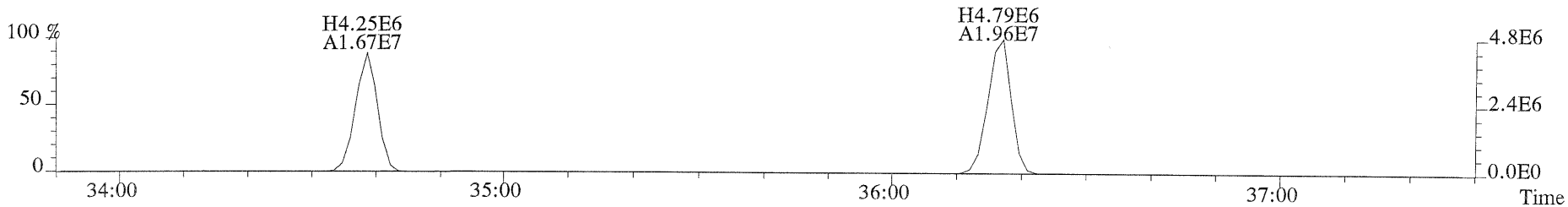
File:28SEP16Y #1-179 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



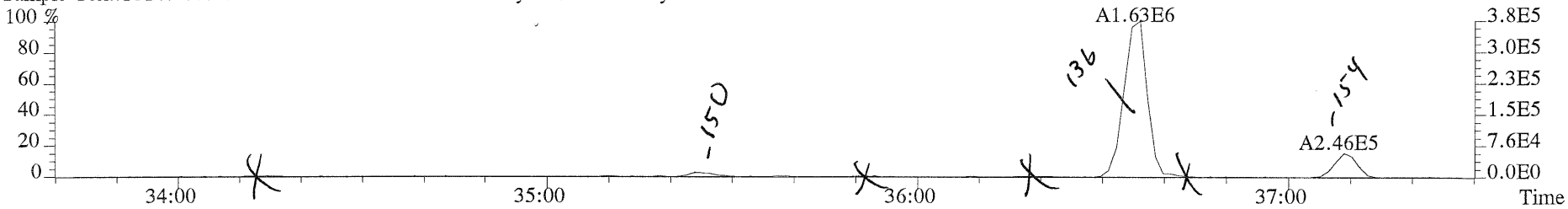
File:28SEP16Y #1-179 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



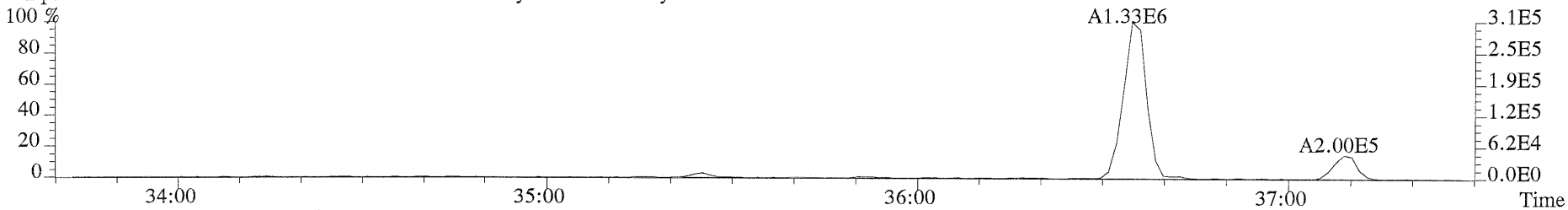
File:28SEP16Y #1-179 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



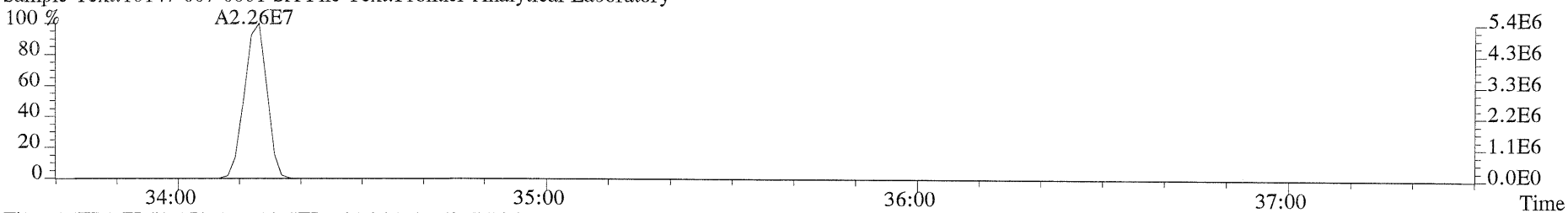
File:28SEP16Y #1-179 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



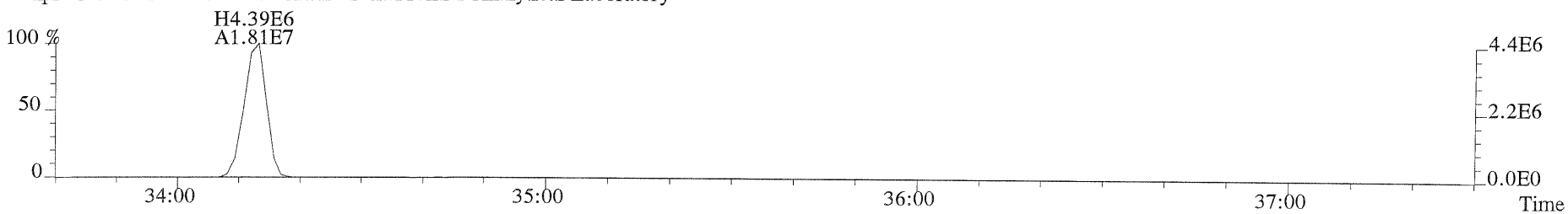
File:28SEP16Y #1-179 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



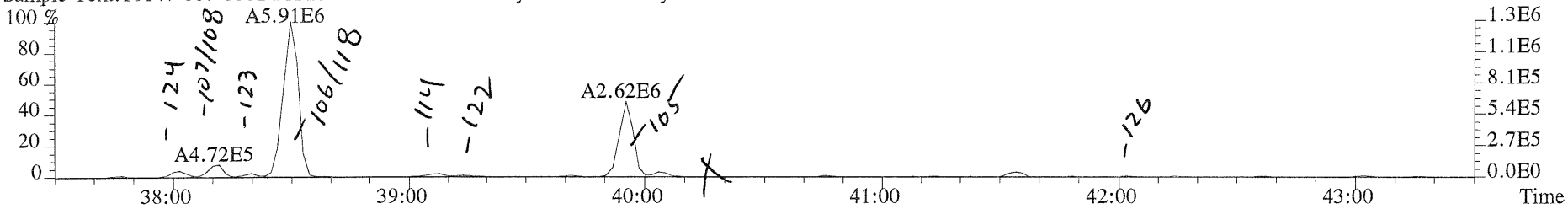
File:28SEP16Y #1-179 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



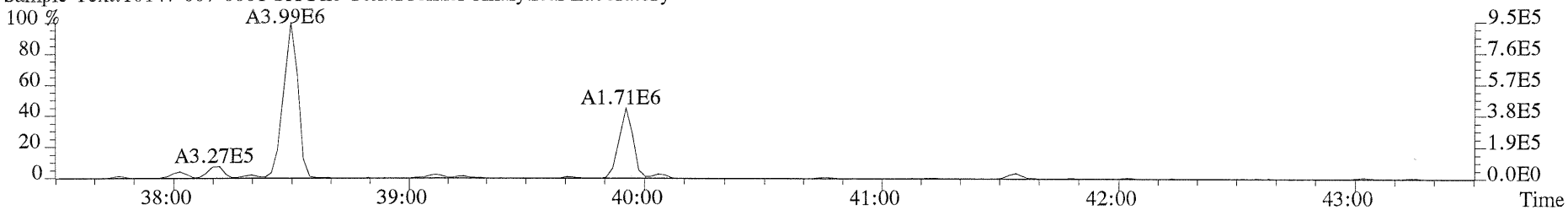
File:28SEP16Y #1-179 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



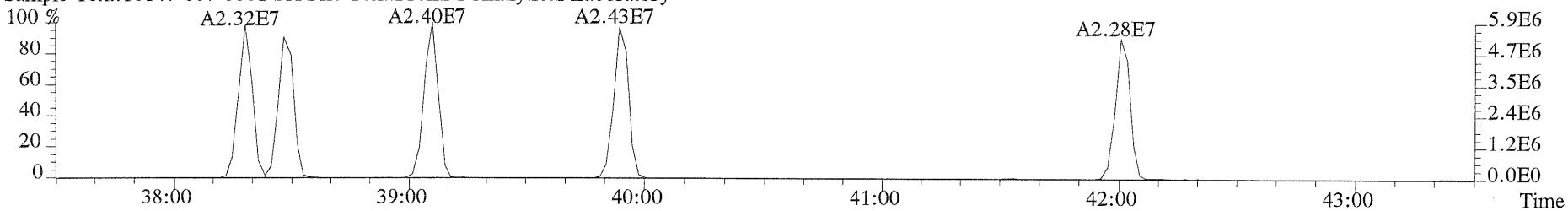
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



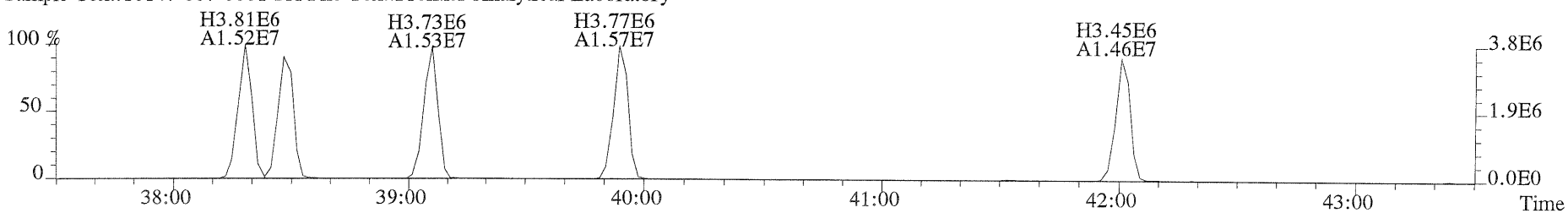
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



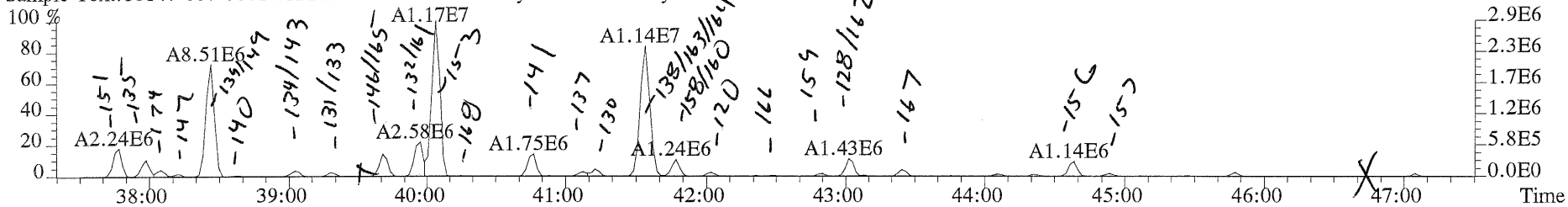
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



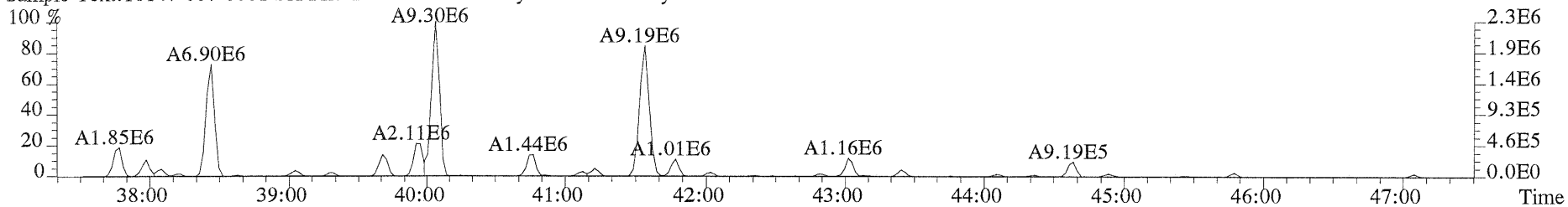
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



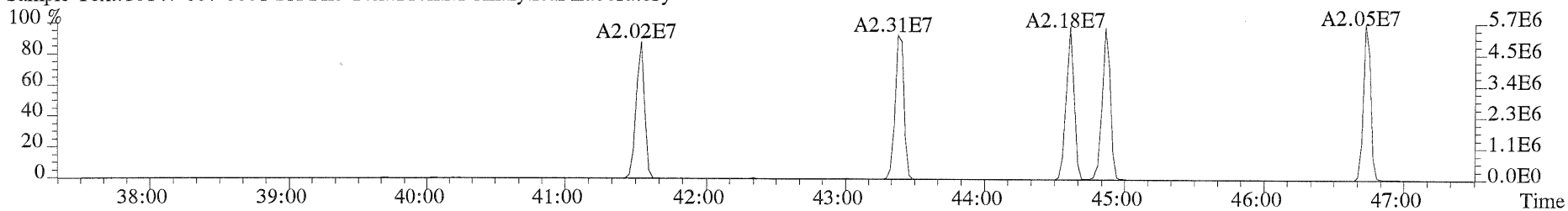
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



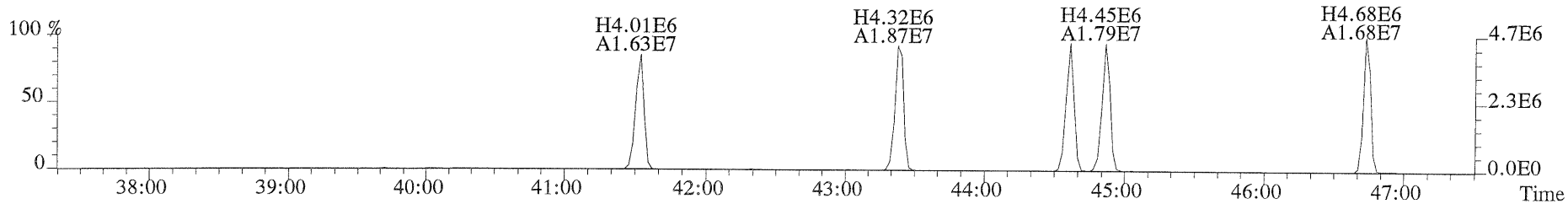
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



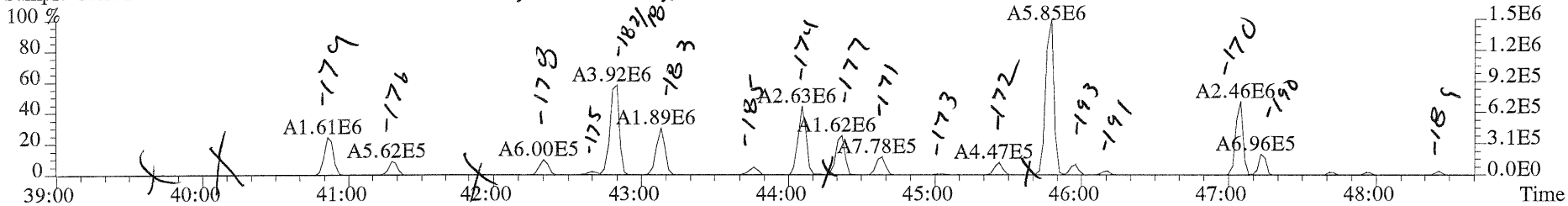
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



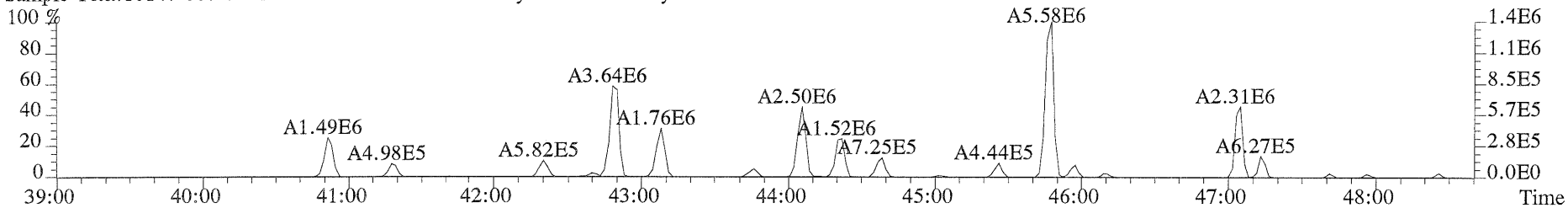
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



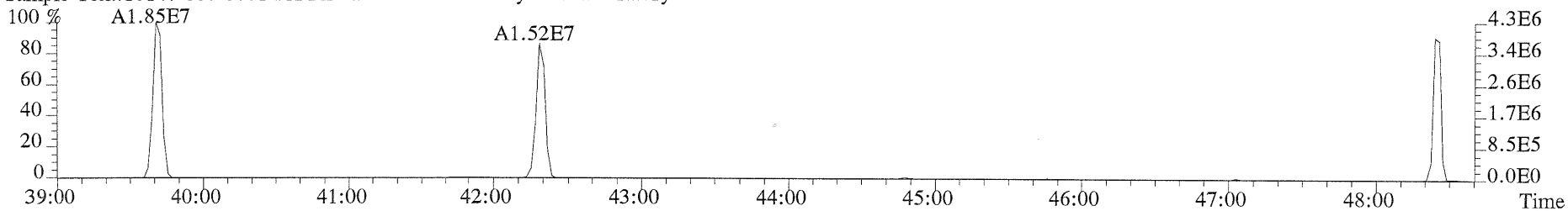
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



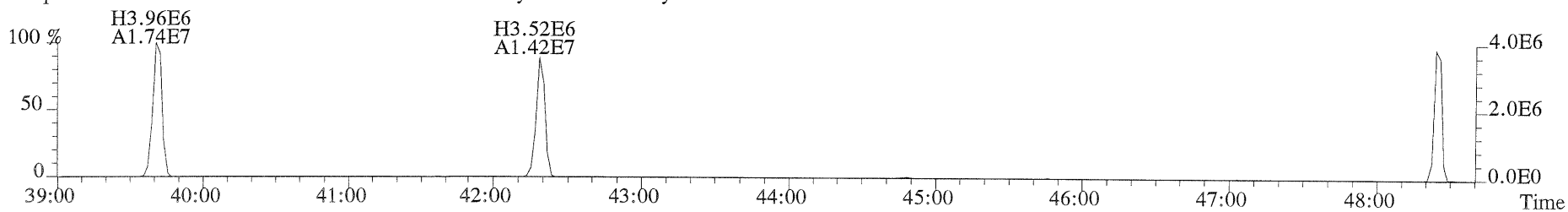
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



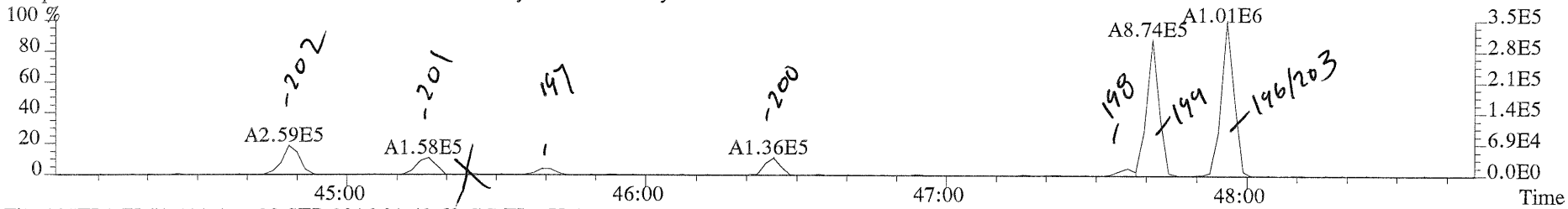
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



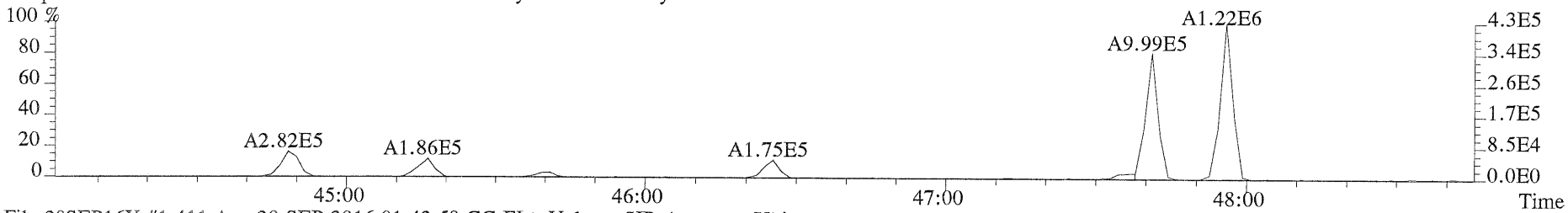
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



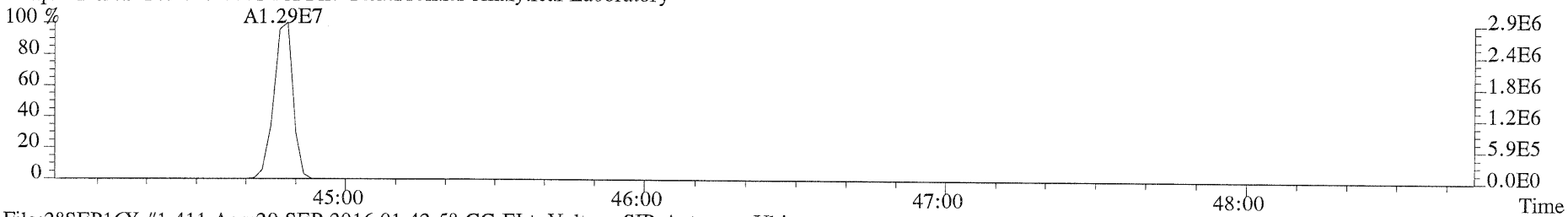
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



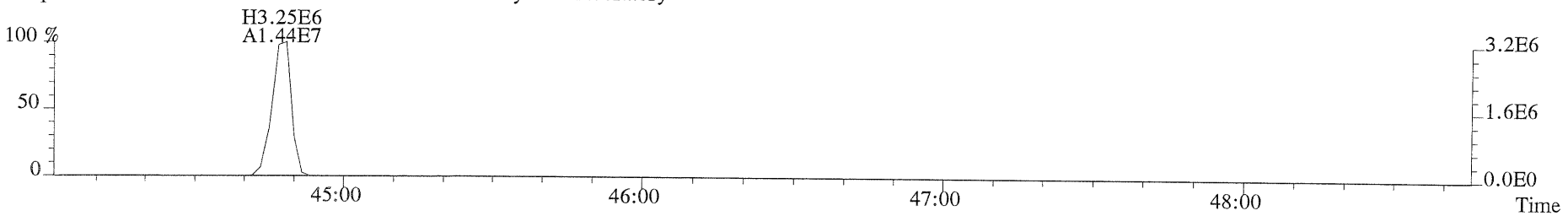
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



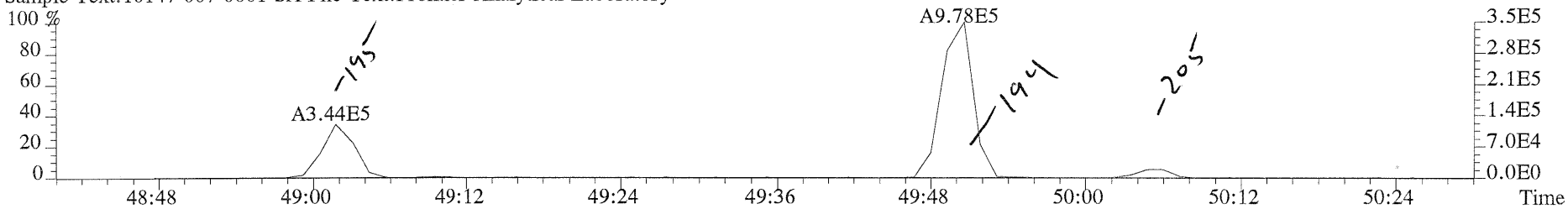
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



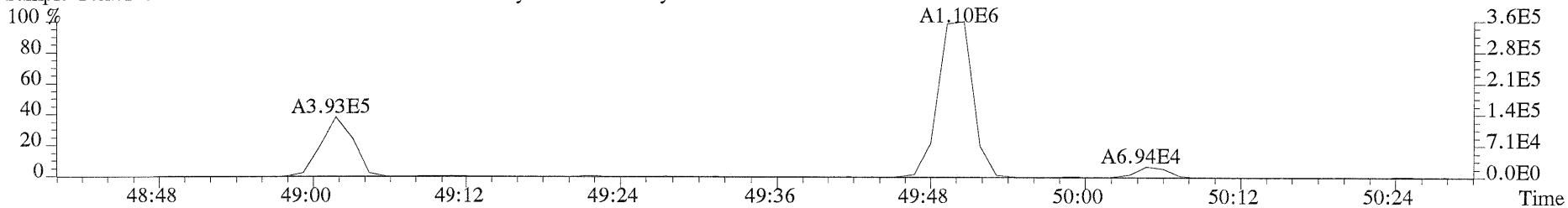
File:28SEP16Y #1-411 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



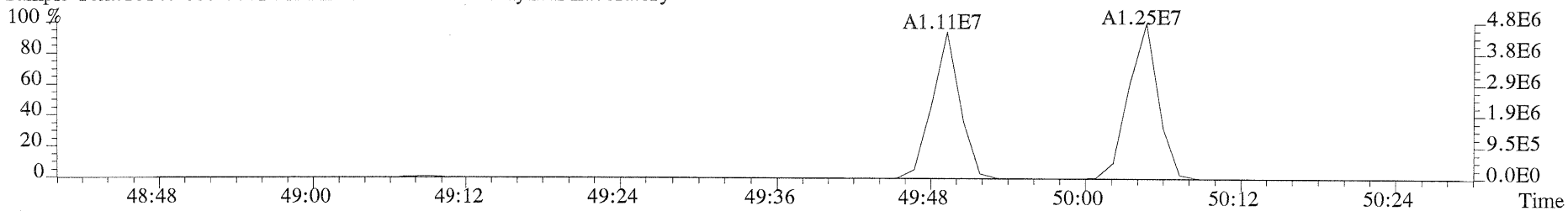
File:28SEP16Y #1-221 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



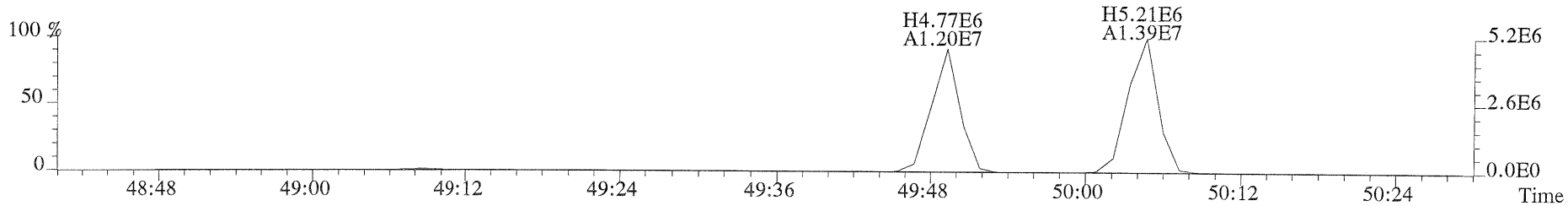
File:28SEP16Y #1-221 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



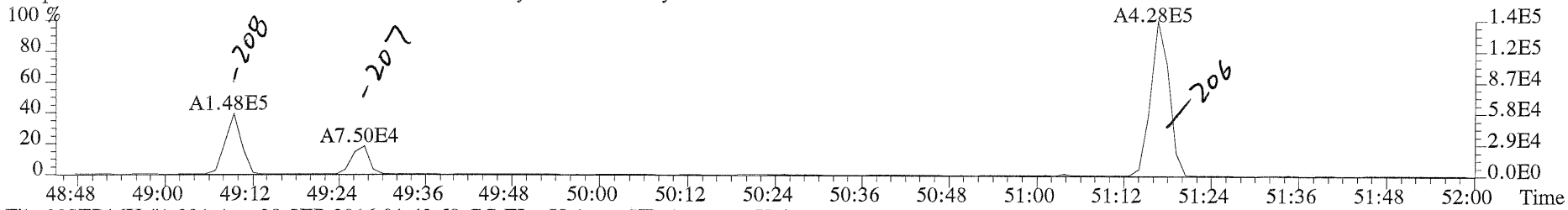
File:28SEP16Y #1-221 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



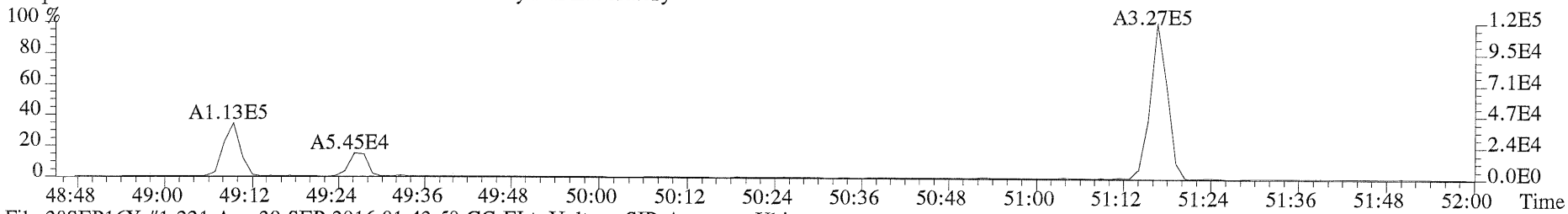
File:28SEP16Y #1-221 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



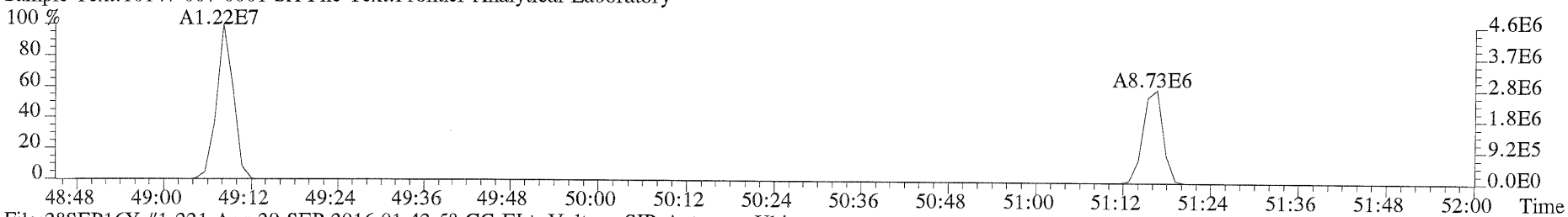
File:28SEP16Y #1-221 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



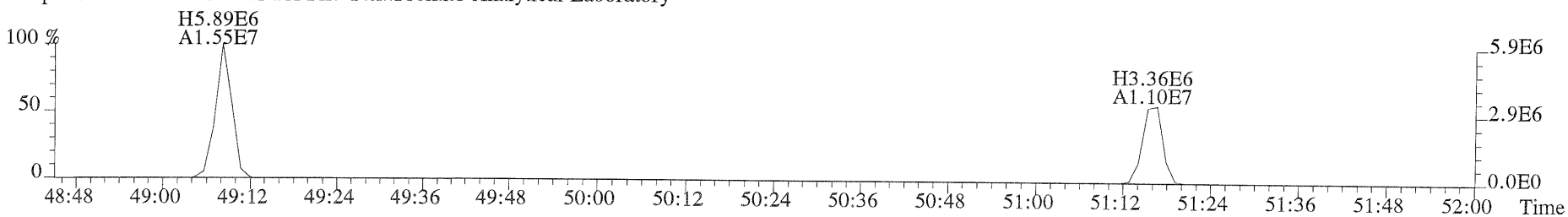
File:28SEP16Y #1-221 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



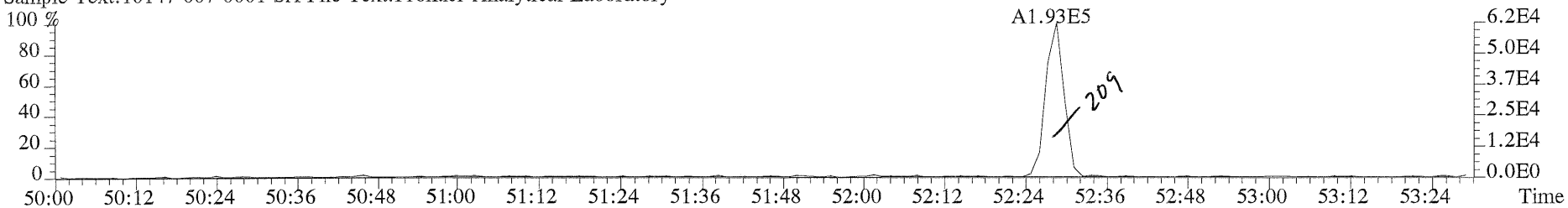
File:28SEP16Y #1-221 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



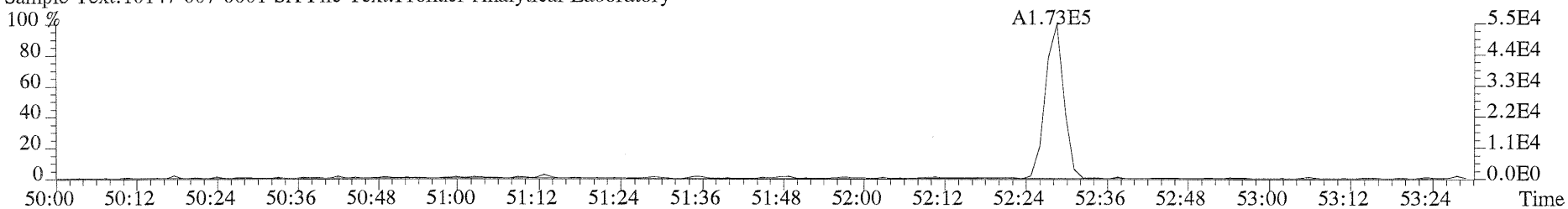
File:28SEP16Y #1-221 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



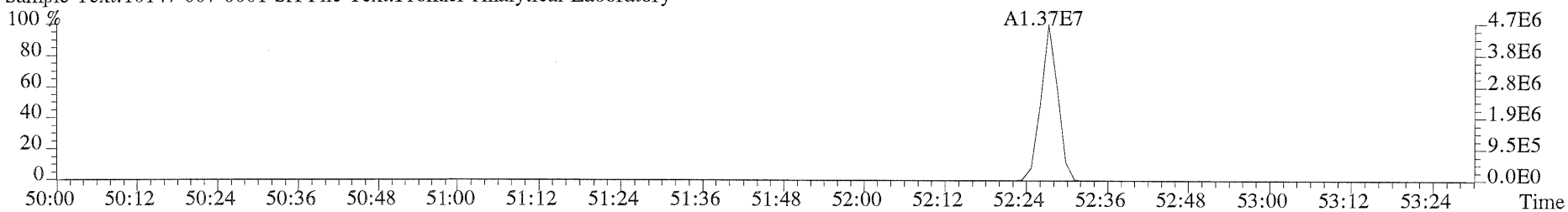
File:28SEP16Y #1-221 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



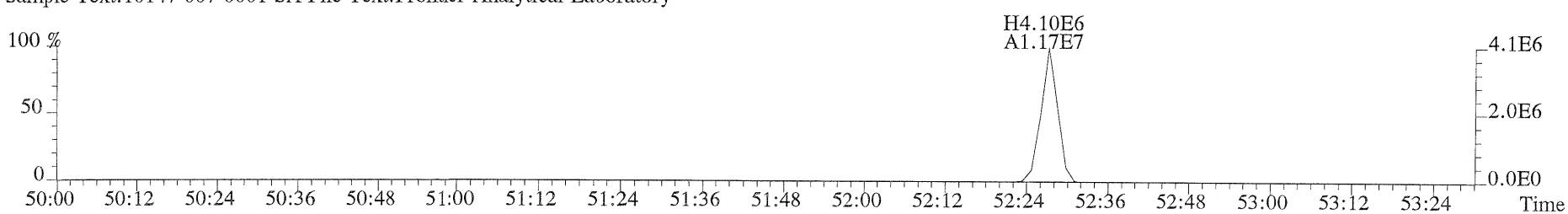
File:28SEP16Y #1-221 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 01:42:58 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-007-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10147-008-0001-SA Filename: 28SEP16Y Sam:13 Acquired: 29-SEP-16 02:39:25 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-SC-ENR-CC-CORE ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.040✓

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	3.33e+05	2.95 y	14:31	1.00	8.51		-	-	*	
13C-PCB-1	7.77e+07	3.13 y	14:30	1.29	1510					75.9
PCB-2	1.07e+05	2.77 y	16:43	0.91	2.85	J	-	-	*	
PCB-3	5.22e+05	3.11 y	16:57	0.96	12.6		-	-	*	
13C-PCB-3	8.54e+07	3.18 y	16:56	1.26	1690					85.3
PCB-4	6.86e+05	1.53 y	18:11	0.95	29.9		-	-	*	
PCB-10	5.60e+04	1.73 y	18:15	1.14	1.56	J	-	-	*	
13C-PCB-4	4.79e+07	1.55 y	18:10	0.64	1860					93.8
PCB-9	2.08e+05	1.34 y	19:53	1.21	5.48		-	-	*	
PCB-7	2.24e+05	1.53 y	19:55	1.16	6.16		-	-	*	
PCB-6	1.29e+06	1.46 y	20:30	1.14	36.2		-	-	*	
PCB-8	4.60e+06	1.51 y	20:52	1.15	128		-	-	*	
PCB-5	*	* n	NotFnd	1.17	*		1770	1880	0.813	
PCB-14	*	* n	NotFnd	1.14	*		1770	1880	0.834	
PCB-11	4.25e+05	1.53 y	23:03	1.10	12.3		-	-	*	
PCB-13	4.83e+05	1.45 y	23:24	1.08	14.3		-	-	*	
PCB-12	9.82e+04	1.47 y	23:26	1.17	2.69	J	-	-	*	
PCB-15	3.62e+06	1.51 y	23:43	1.08	86.9		-	-	*	
13C-PCB-15	7.63e+07	1.58 y	23:42	1.00	1910					96.3
PCB-19	3.60e+05	1.13 y	22:05	1.04	16.5		-	-	*	
PCB-30	*	* n	NotFnd	1.45	*		1510	1620	0.910	
PCB-18	3.93e+06	1.05 y	23:38	1.01	185		-	-	*	
PCB-17	1.95e+06	1.09 y	23:48	1.08	86.4		-	-	*	
PCB-27	4.15e+05	1.09 y	24:19	1.55	12.8		-	-	*	
PCB-24	2.32e+05	1.12 y	24:20	1.32	8.37		-	-	*	
PCB-16	1.49e+06	1.07 y	24:48	1.15	61.6		-	-	*	
PCB-32	1.71e+06	1.06 y	24:50	1.34	60.7		-	-	*	
13C-PCB-19	4.17e+07	1.07 y	22:04	0.66	1570					79.2
13C-PCB-9	7.96e+07	1.58 y	19:51	-	9.51					
PCB-34	6.05e+04	1.08 y	25:34	0.81	5.07		-	-	*	
PCB-23	*	* n	NotFnd	0.90	*		554	412	0.904	
PCB-29	5.66e+04	1.12 y	25:54	0.90	4.31		-	-	*	
PCB-26	1.86e+06	0.98 y	26:06	0.97	131		-	-	*	
PCB-25	1.11e+06	1.02 y	26:15	1.21	62.6		-	-	*	
PCB-31	6.13e+06	0.95 y	26:36	0.97	431		-	-	*	
PCB-28	6.96e+06	0.99 y	26:41	1.08	442		-	-	*	
PCB-20	3.61e+06	0.98 y	27:16	1.02	242		-	-	*	Co-elute PCB 21/33
PCB-21	3.61e+06	0.98 y	27:16	1.02	242		-	-	*	Co-elute PCB 20/33
PCB-33	3.61e+06	0.98 y	27:16	1.02	242		-	-	*	Co-elute PCB 20/21
PCB-22	2.13e+06	0.98 y	27:40	1.08	135		-	-	*	
PCB-36	*	* n	NotFnd	0.96	*		554	412	0.850	
PCB-39	*	* n	NotFnd	1.00	*		554	412	0.818	
PCB-38	*	* n	NotFnd	0.91	*		554	412	0.894	
PCB-35	*	* n	NotFnd	1.01	*		554	412	0.806	
PCB-37	1.71e+06	1.01 y	30:27	1.08	109		-	-	*	
13C-PCB-37	2.90e+07	1.07 y	30:26	1.03	1360					68.3

PCB-54	3.14e+04	0.82	y	25:37	1.04	1.19	J	-	-	*	
PCB-50	3.33e+04	0.81	y	26:42	0.79	1.66	J	-	-	*	
PCB-53	1.18e+06	0.76	y	27:19	0.80	58.7		-	-	*	
PCB-51	4.06e+05	0.78	y	27:39	0.84	19.2		-	-	*	
PCB-45	7.34e+05	0.81	y	28:03	0.72	40.5		-	-	*	
PCB-46	3.13e+05	0.77	y	28:31	0.69	17.9		-	-	*	
PCB-52	1.55e+07	0.79	y	28:59	0.99	616		-	-	*	Co-elute PCB 69
PCB-69	1.55e+07	0.79	y	28:59	0.99	616		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.07	*		711	744	0.473	
PCB-43	6.59e+06	0.78	y	29:15	0.79	331		-	-	*	Co-elute PCB 49
PCB-49	6.59e+06	0.78	y	29:15	0.79	331		-	-	*	Co-elute PCB 43
PCB-47	2.16e+06	0.78	y	29:28	1.07	79.9		-	-	*	
PCB-48	1.24e+06	0.83	y	29:36	0.94	51.9		-	-	*	Co-elute PCB 75
PCB-75	1.24e+06	0.83	y	29:36	0.94	51.9		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*		711	744	0.511	
PCB-62	*	*	n	NotFnd	0.99	*		711	744	0.509	
PCB-44	5.28e+06	0.78	y	30:17	0.73	284		-	-	*	
PCB-42	1.84e+06	0.78	y	30:31	0.98	73.8		-	-	*	Co-elute PCB 59
PCB-59	1.84e+06	0.78	y	30:31	0.98	73.8		-	-	*	Co-elute PCB 42
PCB-72	5.06e+06	0.79	y	31:09	1.09	184		-	-	*	Co-elute PCB 41/71/64
PCB-41	5.06e+06	0.79	y	31:09	1.09	184		-	-	*	Co-elute PCB 72/71/64
PCB-71	5.06e+06	0.79	y	31:09	1.09	184		-	-	*	Co-elute PCB 72/41/64
PCB-64	5.06e+06	0.79	y	31:09	1.09	184		-	-	*	Co-elute PCB 72/41/71
PCB-68	7.18e+04	0.70	y	31:23	1.12	2.52	J	-	-	*	
PCB-40	6.50e+05	0.74	y	31:32	0.63	40.4		-	-	*	
PCB-57	9.31e+04	0.74	y	31:48	1.08	3.40	J	-	-	*	
PCB-67	3.81e+05	0.80	y	32:05	1.07	14.0		-	-	*	
PCB-58	3.63e+04	0.84	y	32:11	1.08	1.33	J	-	-	*	
PCB-63	4.89e+05	0.75	y	32:20	1.08	17.9		-	-	*	
PCB-74	6.20e+06	0.78	y	32:36	1.18	207		-	-	*	
PCB-61	1.70e+07	0.77	y	32:48	1.15	582		-	-	*	Co-elute PCB 70
PCB-70	1.70e+07	0.77	y	32:48	1.15	582		-	-	*	Co-elute PCB 61
PCB-76	1.19e+07	0.78	y	32:59	1.13	413		-	-	*	Co-elute PCB 66
PCB-66	1.19e+07	0.78	y	32:59	1.13	413		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.27	*		711	744	0.398	
PCB-55	2.99e+05	0.82	y	33:28	1.13	10.5		-	-	*	
13C-PCB-54	5.02e+07	0.79	y	25:35	1.09	2200					111
PCB-104	*	*	n	NotFnd	1.13	*		441	451	0.683	
PCB-96	1.16e+05	1.67	y	31:25	1.06	7.65		-	-	*	
PCB-103	3.21e+05	1.45	y	31:48	0.88	25.5		-	-	*	
PCB-100	1.60e+05	1.53	y	32:08	0.87	12.9		-	-	*	
PCB-94	1.00e+05	1.49	y	32:34	0.74	9.40		-	-	*	
PCB-98	*	*	n	NotFnd	1.06	*		441	451	0.730	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	1.06	*		441	451	0.730	Co-elute PCB 98
PCB-95	1.81e+07	1.55	y	33:04	0.63	1990		-	-	*	
PCB-93	*	*	n	NotFnd	0.63	*		441	451	1.23	
PCB-88	3.08e+06	1.57	y	33:27	0.83	260		-	-	*	Co-elute PCB 91
PCB-91	3.08e+06	1.57	y	33:27	0.83	260		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.99	*		441	451	0.781	
13C-PCB-104	2.84e+07	1.59	y	30:06	0.98	1390					70.0
13C-PCB-28	5.01e+07	1.01	y	26:40	1.01	2370					119
13C-PCB-52	4.14e+07	0.80	y	28:56	-	6.92					

PCB-56	4.89e+06	0.73	y	33:57	0.89	257		-	-	*	Co-elute PCB 60
PCB-60	4.89e+06	0.73	y	33:57	0.89	257		-	-	*	Co-elute PCB 56
PCB-79	1.47e+05	0.70	y	34:58	1.00	6.85		-	-	*	
PCB-78	4.26e+04	0.83	y	35:34	0.97	2.05	J	-	-	*	
PCB-81	2.17e+05	0.68	y	36:08	1.07	9.89		-	-	*	
13C-PCB-81	4.07e+07	0.81	y	36:06	0.96	2060					104
PCB-77	9.39e+05	0.73	y	36:41	1.01	41.9		-	-	*	
13C-PCB-77	4.40e+07	0.83	y	36:40	1.02	2100					106
PCB-155	*	*	n	NotFnd	1.05	*		657	756	0.643	
PCB-150	1.04e+05	1.37	y	35:24	0.96	5.30		-	-	*	
PCB-152	5.90e+04	1.15	y	35:51	0.94	3.06	J	-	-	*	
PCB-145	*	*	n	NotFnd	0.94	*		657	756	0.723	
PCB-136	4.42e+06	1.25	y	36:35	0.94	229		-	-	*	
PCB-148	*	*	n	NotFnd	0.68	*		657	756	0.999	
PCB-154	5.97e+05	1.27	y	37:09	0.80	36.5		-	-	*	
13C-PCB-155	4.06e+07	1.28	y	34:12	1.15	1720					86.6
13C-PCB-111	5.03e+07	1.57	y	36:16	1.14	2150					108
13C-PCB-101	4.07e+07	1.59	y	34:39	-	7.11					
PCB-84	9.35e+06	1.56	y	34:18	0.87	538		-	-	*	Co-elute PCB 92
PCB-92	9.35e+06	1.56	y	34:18	0.87	538		-	-	*	Co-elute PCB 84
PCB-89	1.63e+05	1.37	y	34:29	0.86	9.43		-	-	*	
PCB-90	2.65e+07	1.56	y	34:40	0.98	1350		-	-	*	Co-elute PCB 101
PCB-101	2.65e+07	1.56	y	34:40	0.98	1350		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.12	*		876	789	0.752	
PCB-99	1.11e+07	1.54	y	34:59	1.06	522		-	-	*	
PCB-119	7.96e+05	1.59	y	35:24	1.26	31.6		-	-	*	
PCB-83	1.12e+06	1.52	y	35:33	1.00	55.8		-	-	*	Co-elute PCB 112
PCB-112	1.12e+06	1.52	y	35:33	1.00	55.8		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.13	*		876	789	0.745	
PCB-97	6.68e+06	1.55	y	35:53	1.06	315		-	-	*	
PCB-86	*	*	n	NotFnd	0.88	*		876	789	0.951	
PCB-125	1.07e+07	1.55	y	36:10	1.13	472		-	-	*	Co-elute PCB 87/117
PCB-87	1.07e+07	1.55	y	36:10	1.13	472		-	-	*	Co-elute PCB 125/117
PCB-117	1.07e+07	1.55	y	36:10	1.13	472		-	-	*	Co-elute PCB 125/87
PCB-111	5.55e+05	1.60	y	36:19	1.45	19.1		-	-	*	Co-elute PCB 115
PCB-115	5.55e+05	1.60	y	36:19	1.45	19.1		-	-	*	Co-elute PCB 111
PCB-85	3.59e+06	1.55	y	36:25	1.02	176		-	-	*	Co-elute PCB 116
PCB-116	3.59e+06	1.55	y	36:25	1.02	176		-	-	*	Co-elute PCB 85
PCB-120	1.59e+05	1.43	y	36:37	1.34	5.95		-	-	*	
PCB-110	3.38e+07	1.57	y	36:46	1.30	1300		-	-	*	
PCB-82	2.11e+06	1.55	y	37:22	0.75	141		-	-	*	
PCB-124	9.74e+05	1.44	y	38:02	0.99	49.0		-	-	*	
PCB-108	1.65e+06	1.48	y	38:10	0.95	86.9		-	-	*	Co-elute PCB 107
PCB-107	1.65e+06	1.48	y	38:10	0.95	86.9		-	-	*	Co-elute PCB 108
PCB-123	3.82e+05	1.52	y	38:20	1.08	17.4		-	-	*	
13C-PCB-123	4.01e+07	1.57	y	38:18	0.97	2340					118
PCB-118	2.16e+07	1.48	y	38:30	0.91	1200		-	-	*	Co-elute PCB 106
PCB-106	2.16e+07	1.48	y	38:30	0.91	1200		-	-	*	Co-elute PCB 118
13C-PCB-118	3.96e+07	1.58	y	38:28	1.06	2120					107
PCB-114	5.88e+05	1.45	y	39:06	0.97	30.0		-	-	*	
13C-PCB-114	4.01e+07	1.55	y	39:06	1.04	2190					111
PCB-122	2.67e+05	1.61	y	39:14	0.95	14.1		-	-	*	
PCB-105	8.68e+06	1.45	y	39:56	0.94	465		-	-	*	
13C-PCB-105	3.93e+07	1.55	y	39:54	1.03	2160					109

FAL ID: 10147-008-0001-SA Filename: 28SEP16Y Sam:13 Acquired: 29-SEP-16 02:39:25 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-SC-ENR-CC-CORE ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.040

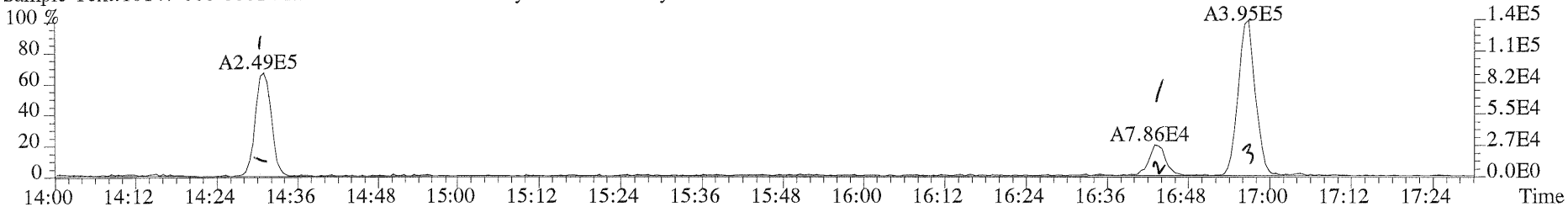
PCB-127	*	*	n	NotFnd	0.86	*		675	899	0.926	
PCB-126	1.02e+05	1.43	y	42:02	0.98	5.33		-	-	*	
13C-PCB-126	3.87e+07	1.57	y	42:01	0.91	2400					121
PCB-151	5.27e+06	1.26	y	37:45	0.82	319		-	-	*	
PCB-135	3.19e+06	1.23	y	37:59	0.88	180		-	-	*	
PCB-144	1.31e+06	1.26	y	38:05	0.82	79.0		-	-	*	
PCB-147	6.21e+05	1.34	y	38:12	0.86	35.7		-	-	*	
PCB-139	2.24e+07	1.22	y	38:27	0.90	1230		-	-	*	Co-elute PCB 149
PCB-149	2.24e+07	1.22	y	38:27	0.90	1230		-	-	*	Co-elute PCB 139
PCB-140	1.74e+05	1.26	y	38:38	0.83	10.3		-	-	*	
PCB-143	1.42e+06	1.24	y	39:03	0.82	85.4		-	-	*	Co-elute PCB 134
PCB-134	1.42e+06	1.24	y	39:03	0.82	85.4		-	-	*	Co-elute PCB 143
PCB-131	7.68e+05	1.18	y	39:19	0.83	45.8		-	-	*	Co-elute PCB 133
PCB-133	7.68e+05	1.18	y	39:19	0.83	45.8		-	-	*	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.71	*		756	777	1.03	
PCB-165	4.32e+06	1.26	y	39:41	0.97	220		-	-	*	Co-elute PCB 146
PCB-146	4.32e+06	1.26	y	39:41	0.97	220		-	-	*	Co-elute PCB 165
PCB-161	8.09e+06	1.24	y	39:56	0.92	434		-	-	*	Co-elute PCB 132
PCB-132	8.09e+06	1.24	y	39:56	0.92	434		-	-	*	Co-elute PCB 161
PCB-153	2.96e+07	1.26	y	40:04	0.95	1540		-	-	*	
PCB-168	5.42e+04	1.21	y	40:15	1.05	2.54	J	-	-	*	
PCB-141	4.56e+06	1.26	y	40:45	0.81	277		-	-	*	
PCB-137	1.27e+06	1.23	y	41:08	0.76	82.7		-	-	*	
PCB-130	1.65e+06	1.25	y	41:13	0.74	110		-	-	*	
PCB-138	3.15e+07	1.25	y	41:34	1.10	1420		-	-	*	Co-elute PCB 163/164
PCB-163	3.15e+07	1.25	y	41:34	1.10	1420		-	-	*	Co-elute PCB 138/164
PCB-164	3.15e+07	1.25	y	41:34	1.10	1420		-	-	*	Co-elute PCB 138/163
PCB-158	3.71e+06	1.23	y	41:47	1.06	174		-	-	*	Co-elute PCB 160
PCB-160	3.71e+06	1.23	y	41:47	1.06	174		-	-	*	Co-elute PCB 158
PCB-129	1.08e+06	1.24	y	42:02	0.66	80.4		-	-	*	
PCB-166	1.52e+05	1.31	y	42:29	0.99	7.60		-	-	*	
PCB-159	3.51e+05	1.19	y	42:50	1.05	16.5		-	-	*	
PCB-128	4.60e+06	1.21	y	43:02	0.90	252		-	-	*	Co-elute PCB 162
PCB-162	4.60e+06	1.21	y	43:02	0.90	252		-	-	*	Co-elute PCB 128
PCB-167	1.41e+06	1.22	y	43:25	0.94	70.0		-	-	*	
13C-PCB-167	4.25e+07	1.23	y	43:23	1.12	2140					108
PCB-156	3.67e+06	1.25	y	44:39	0.99	180		-	-	*	
13C-PCB-156	4.08e+07	1.25	y	44:37	1.07	2160					109
PCB-157	7.76e+05	1.23	y	44:53	0.94	40.3		-	-	*	
13C-PCB-157	4.06e+07	1.23	y	44:52	1.10	2100					106
PCB-169	*	*	n	NotFnd	0.95	*		756	777	0.762	
13C-PCB-169	3.69e+07	1.25	y	46:44	0.98	2130					107

FAL ID: 10147-008-0001-SA Filename: 28SEP16Y Sam:13 Acquired: 29-SEP-16 02:39:25 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-SC-ENR-CC-CORE ConCal: ST092816Y1 EndCal: ST092816Y2
Results: 10147 GC Column: DB1 Amount: 5.040

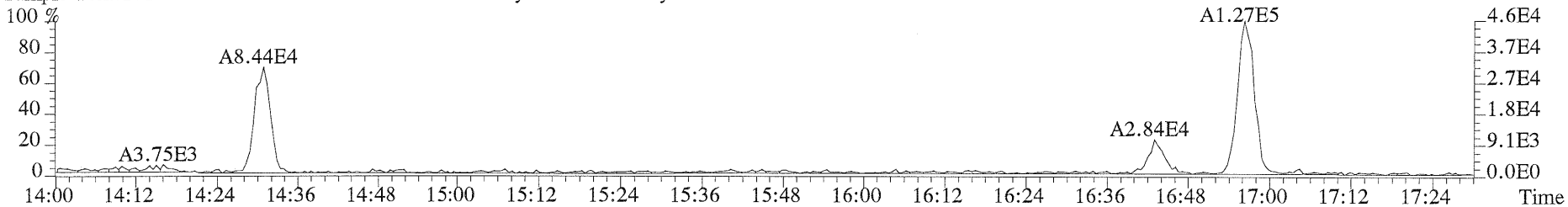
PCB-188	*	*	n	NotFnd	1.11	*	745	802	0.767	
13C-PCB-188	3.67e+07	1.07	y	39:41	1.23	1690				85.0
PCB-184	*	*	n	NotFnd	1.25	*	745	802	0.727	
PCB-179	3.62e+06	1.07	y	40:51	1.23	182	-	-	*	
PCB-176	1.17e+06	1.06	y	41:18	1.19	60.4	-	-	*	
PCB-186	*	*	n	NotFnd	1.18	*	745	802	0.770	
PCB-178	1.27e+06	0.98	y	42:20	0.85	91.5	-	-	*	
PCB-175	2.85e+05	0.94	y	42:40	0.89	19.7	-	-	*	
PCB-187	7.94e+06	1.07	y	42:48	0.95	517	-	-	*	Co-elute PCB 182
PCB-182	7.94e+06	1.07	y	42:48	0.95	517	-	-	*	Co-elute PCB 187
PCB-183	3.95e+06	1.03	y	43:08	0.95	256	-	-	*	
PCB-185	6.59e+05	1.09	y	43:46	0.86	47.4	-	-	*	
PCB-174	5.59e+06	1.06	y	44:06	0.89	387	-	-	*	
PCB-181	*	*	n	NotFnd	0.82	*	745	802	1.11	
PCB-177	3.39e+06	1.04	y	44:22	0.74	282	-	-	*	
PCB-171	1.74e+06	1.01	y	44:39	0.82	130	-	-	*	
PCB-173	1.31e+05	0.99	y	45:03	0.73	11.1	-	-	*	
PCB-172	9.63e+05	1.05	y	45:26	0.75	79.5	-	-	*	
PCB-192	*	*	n	NotFnd	0.96	*	745	802	0.941	
PCB-180	1.23e+07	1.04	y	45:48	0.98	773	-	-	*	
PCB-193	8.43e+05	1.00	y	45:58	1.05	49.5	-	-	*	
PCB-191	3.11e+05	1.02	y	46:09	0.97	19.7	-	-	*	
PCB-170	5.10e+06	1.10	y	47:05	0.64	488	-	-	*	
PCB-190	1.47e+06	1.07	y	47:13	0.88	102	-	-	*	
PCB-189	2.54e+05	1.17	y	48:26	1.10	16.6	-	-	*	
13C-PCB-189	2.76e+07	1.06	y	48:24	0.90	1740				87.5
PCB-202	5.71e+05	0.95	y	44:49	0.95	44.1	-	-	*	
PCB-201	3.87e+05	0.85	y	45:16	0.92	30.6	-	-	*	
PCB-204	*	*	n	NotFnd	0.92	*	544	575	0.943	
PCB-197	1.22e+05	0.85	y	45:40	0.93	9.67	-	-	*	
PCB-200	3.27e+05	0.86	y	46:26	0.88	27.1	-	-	*	
PCB-198	1.12e+05	0.88	y	47:35	0.60	13.6	-	-	*	
PCB-199	1.84e+06	0.93	y	47:41	0.55	243	-	-	*	
PCB-203	2.35e+06	0.86	y	47:56	0.64	266	-	-	*	Co-elute PCB 196
PCB-196	2.35e+06	0.86	y	47:56	0.64	266	-	-	*	Co-elute PCB 203
13C-PCB-202	2.71e+07	0.91	y	44:47	1.00	1530				77.2
13C-PCB-178	2.88e+07	1.09	y	42:19	0.84	1940				98.0
13C-PCB-138	3.50e+07	1.23	y	41:33	-	7.12				
PCB-195	7.23e+05	0.84	y	49:02	0.75	74.0	-	-	*	
PCB-194	2.07e+06	0.89	y	49:51	0.76	208	-	-	*	
PCB-205	1.33e+05	1.01	y	50:05	1.00	10.2	-	-	*	
13C-PCB-205	2.59e+07	0.90	y	50:05	1.27	1820				92.0
PCB-208	2.91e+05	1.41	y	49:10	0.93	22.2	-	-	*	
13C-PCB-208	2.80e+07	0.78	y	49:08	1.49	1670				84.4
PCB-207	1.33e+05	1.39	y	49:26	1.00	11.2	-	-	*	
PCB-206	8.63e+05	1.32	y	51:17	0.99	89.1	-	-	*	
13C-PCB-206	1.93e+07	0.81	y	51:15	1.02	1690				85.4
PCB-209	4.63e+05	1.17	y	52:29	1.06	34.9	-	-	*	
13C-PCB-209	2.50e+07	1.18	y	52:27	1.58	1420				71.4
13C-PCB-194	2.22e+07	0.92	y	49:49	-	8.41				

Analyst: _____ Date: 10/7/16

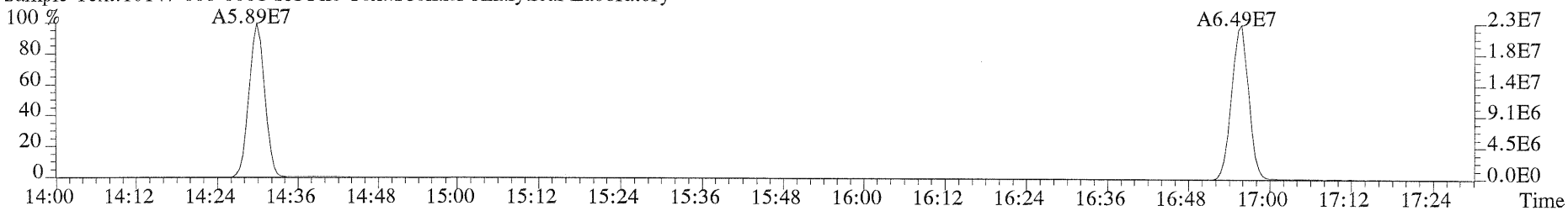
File:28SEP16Y #1-784 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



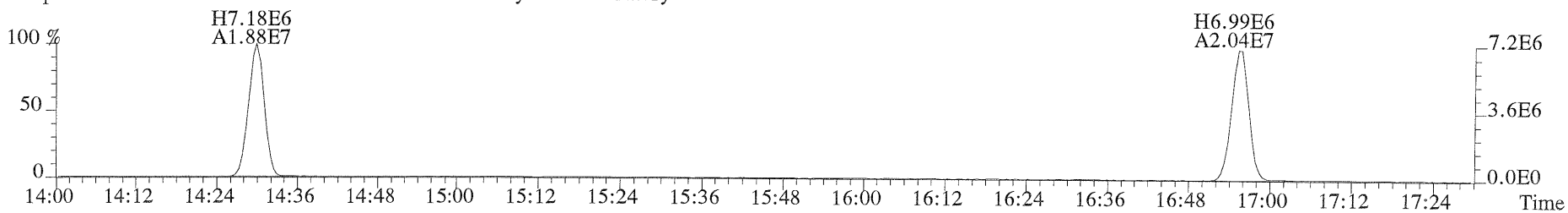
File:28SEP16Y #1-784 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



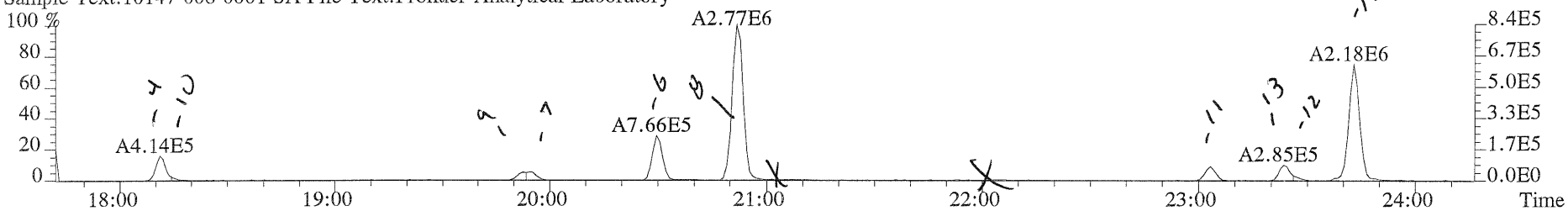
File:28SEP16Y #1-784 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



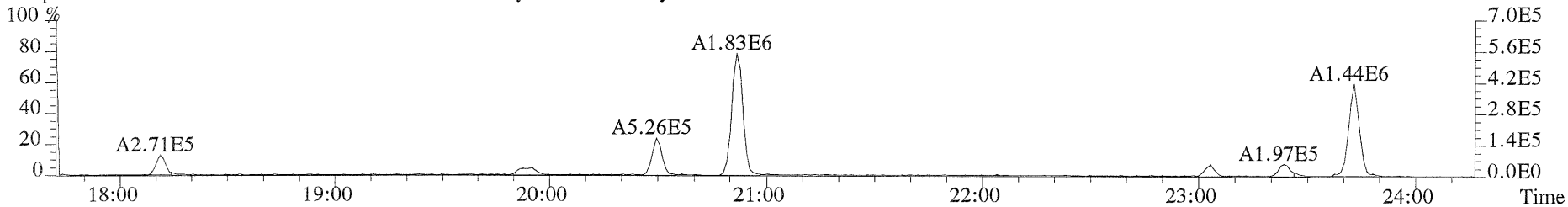
File:28SEP16Y #1-784 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



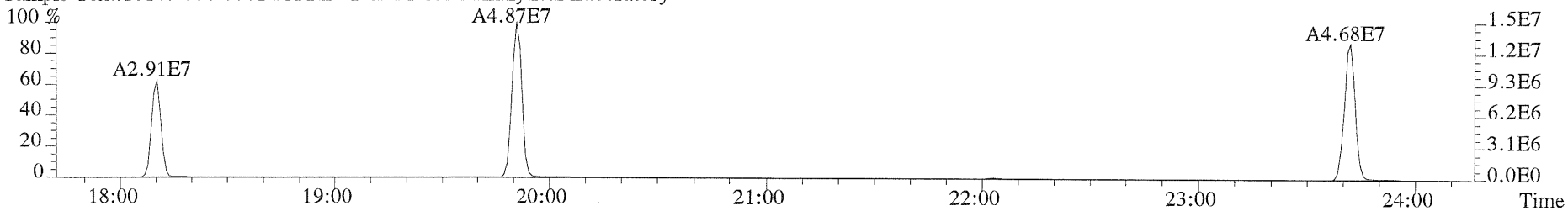
File:28SEP16Y #1-509 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



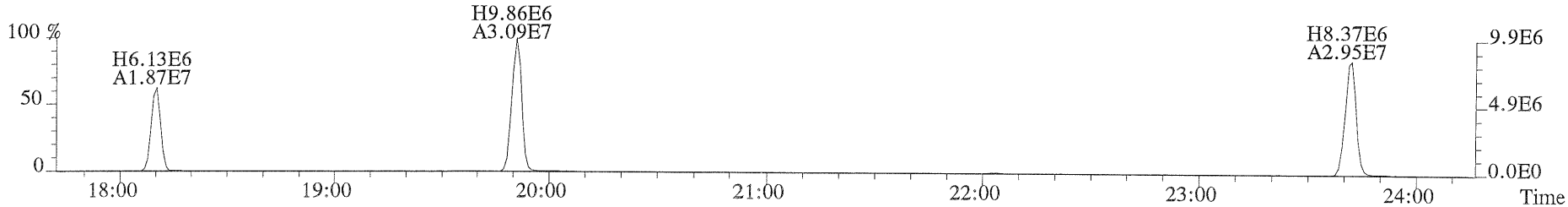
File:28SEP16Y #1-509 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



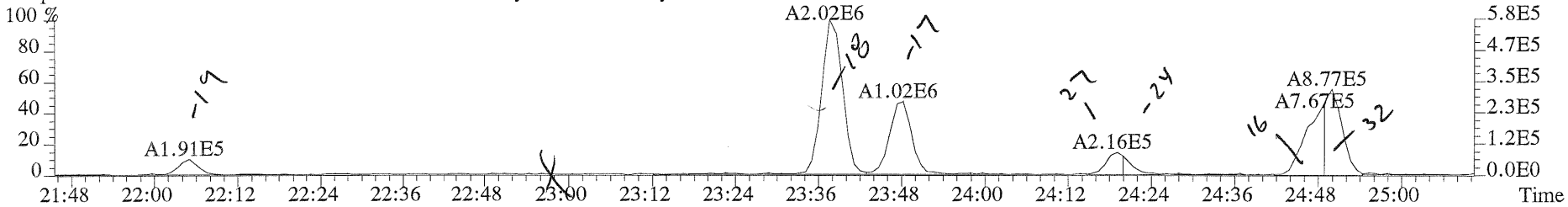
File:28SEP16Y #1-509 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



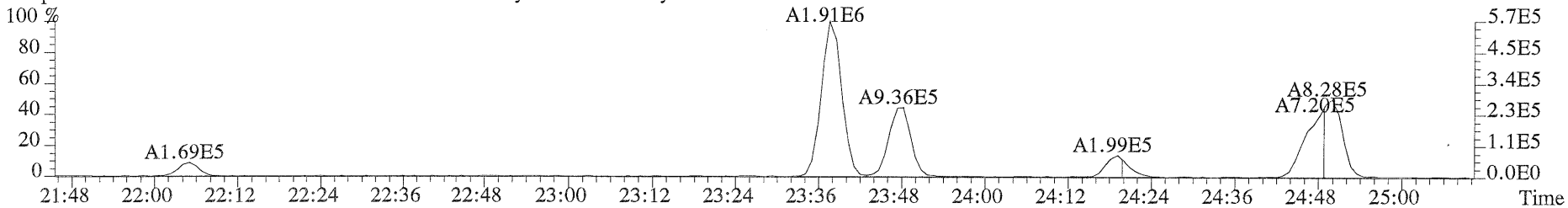
File:28SEP16Y #1-509 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



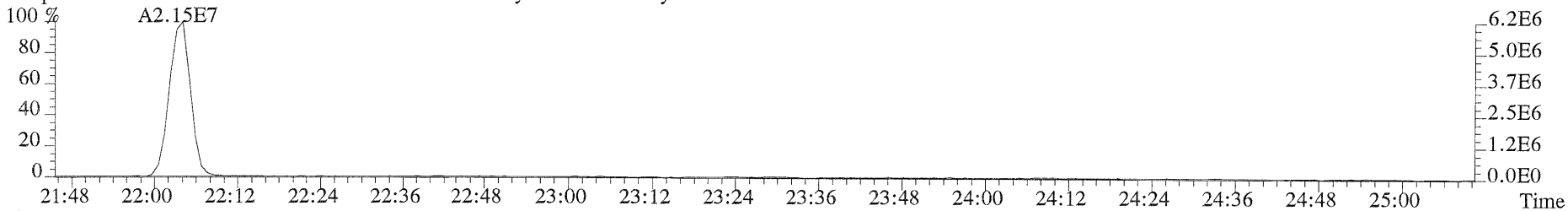
File:28SEP16Y #1-509 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



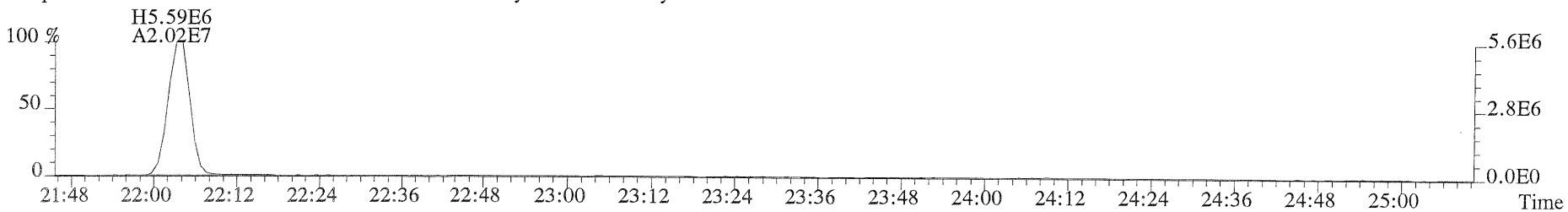
File:28SEP16Y #1-509 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



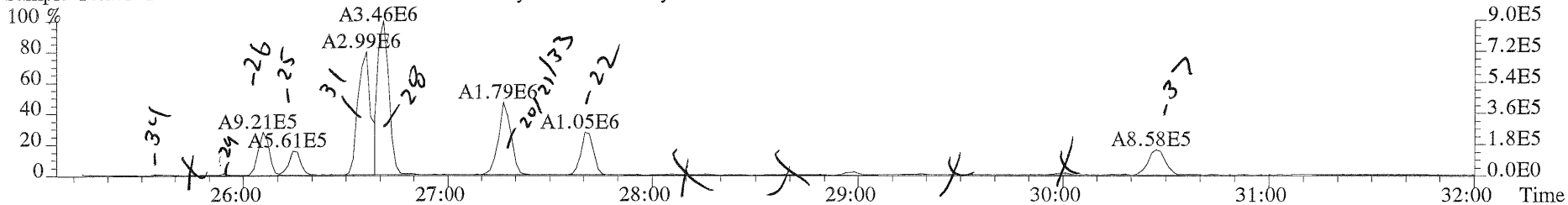
File:28SEP16Y #1-509 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



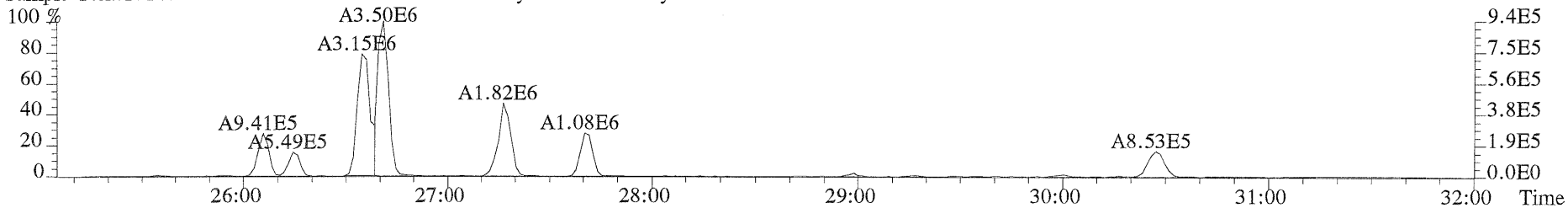
File:28SEP16Y #1-509 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



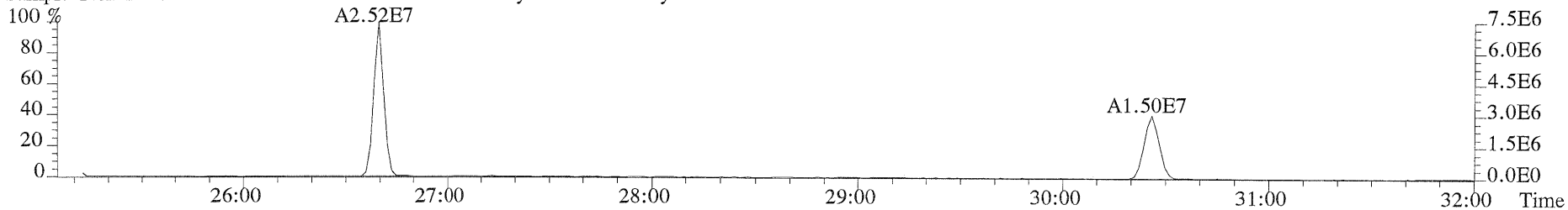
File:28SEP16Y #1-403 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



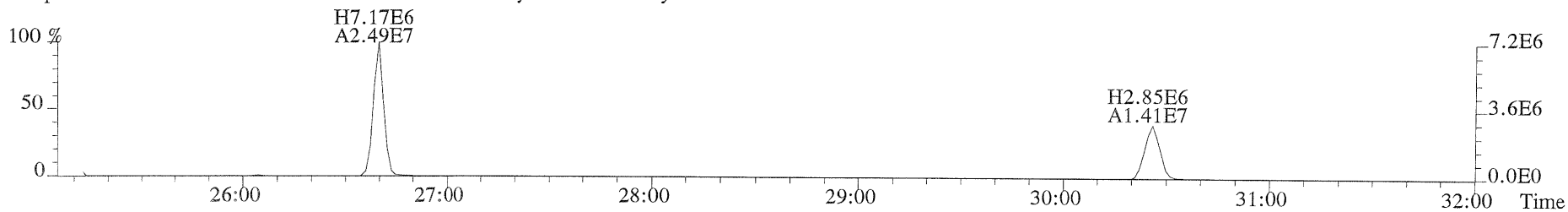
File:28SEP16Y #1-403 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



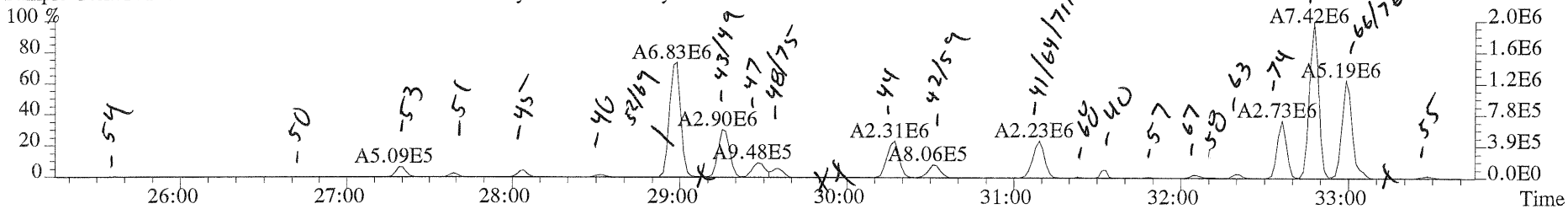
File:28SEP16Y #1-403 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



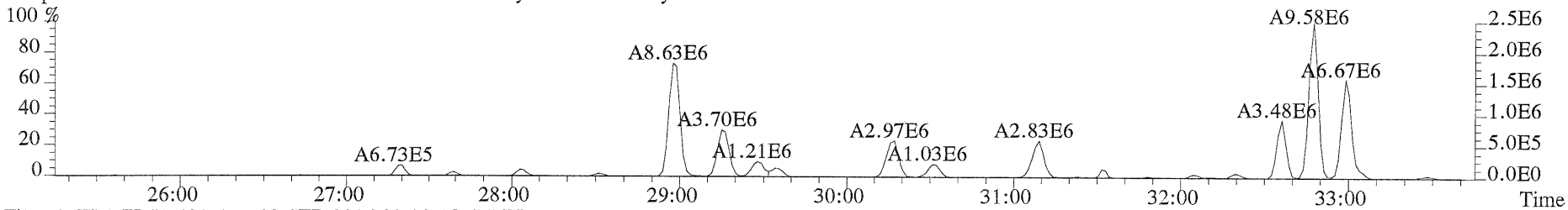
File:28SEP16Y #1-403 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



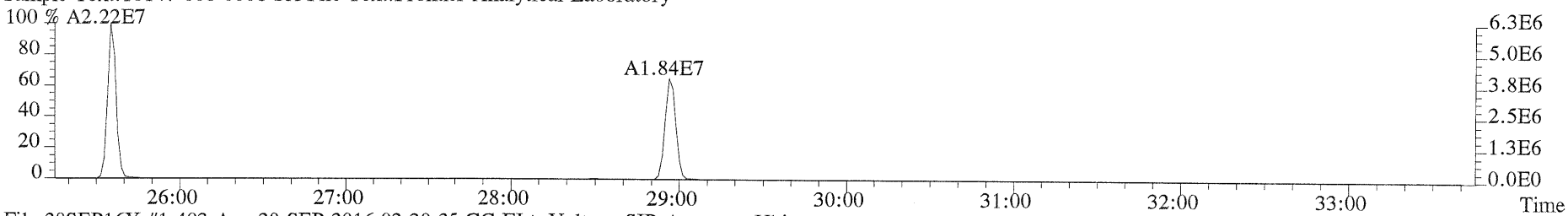
File:28SEP16Y #1-403 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



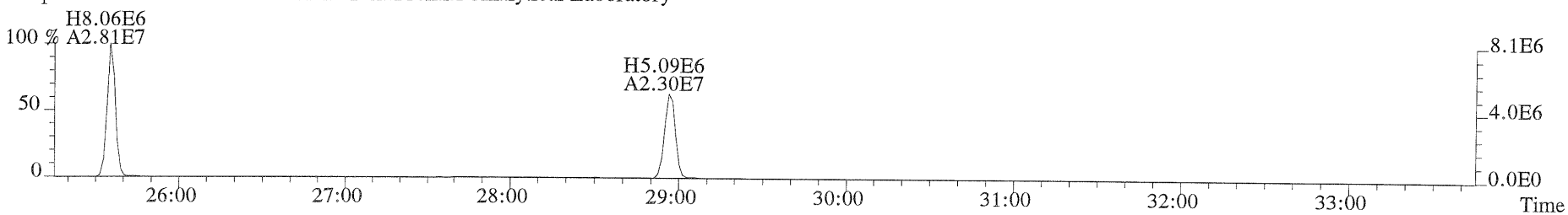
File:28SEP16Y #1-403 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



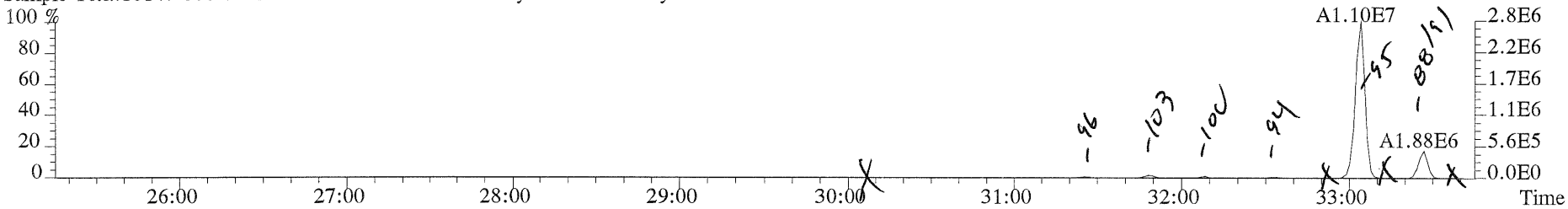
File:28SEP16Y #1-403 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



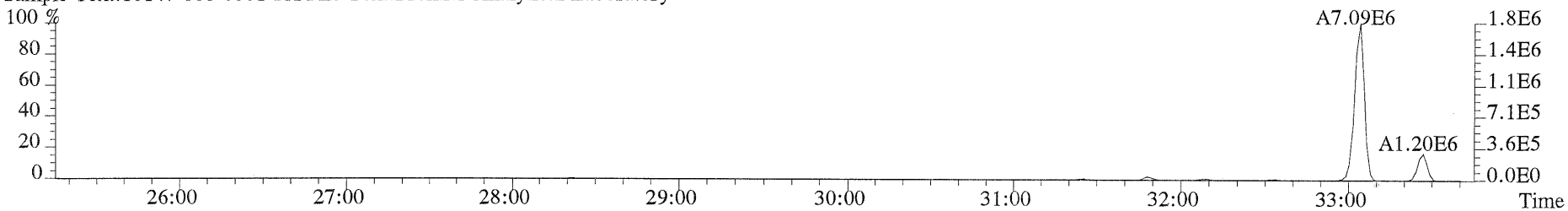
File:28SEP16Y #1-403 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



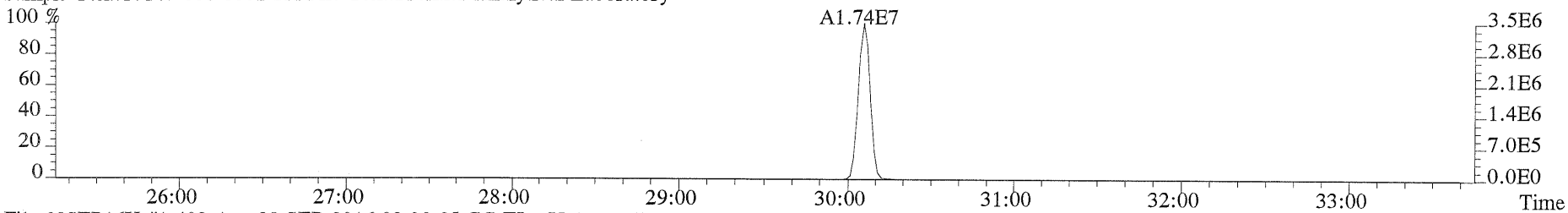
File:28SEP16Y #1-403 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



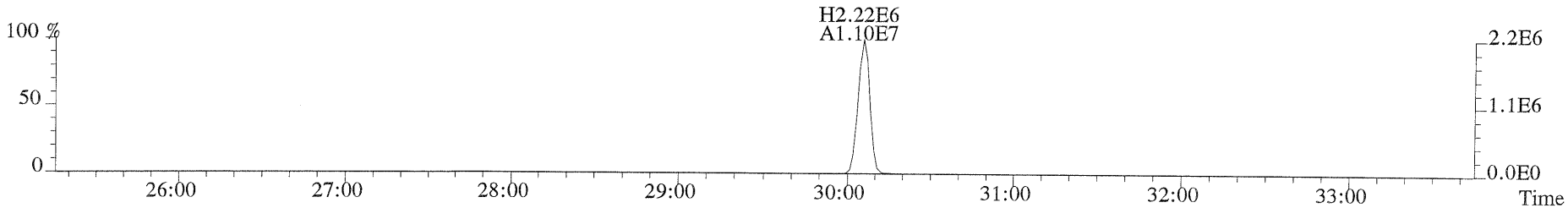
File:28SEP16Y #1-403 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



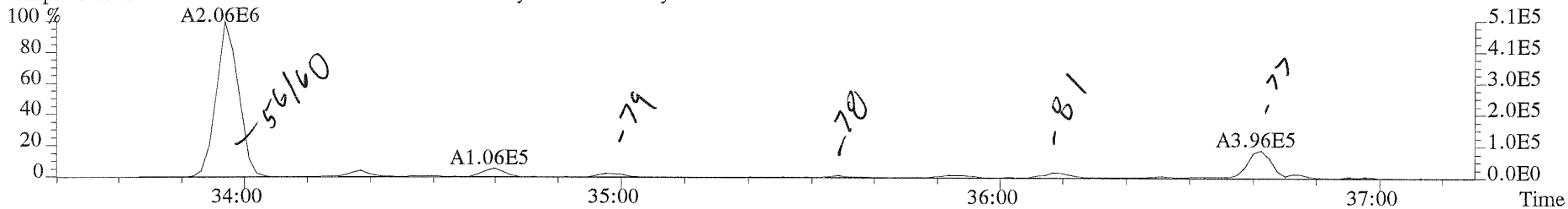
File:28SEP16Y #1-403 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



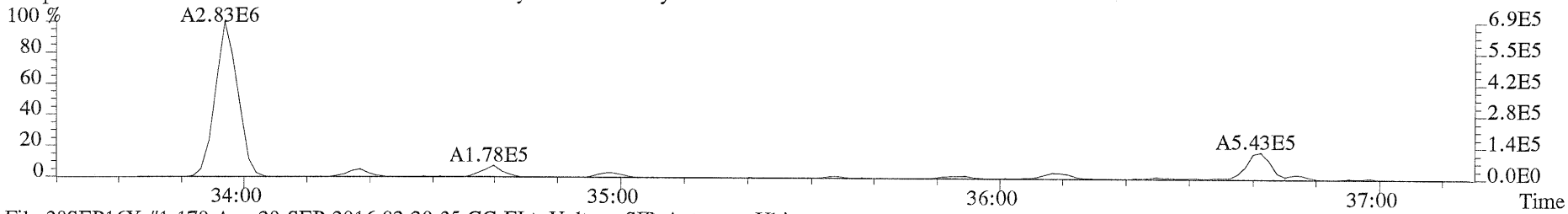
File:28SEP16Y #1-403 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



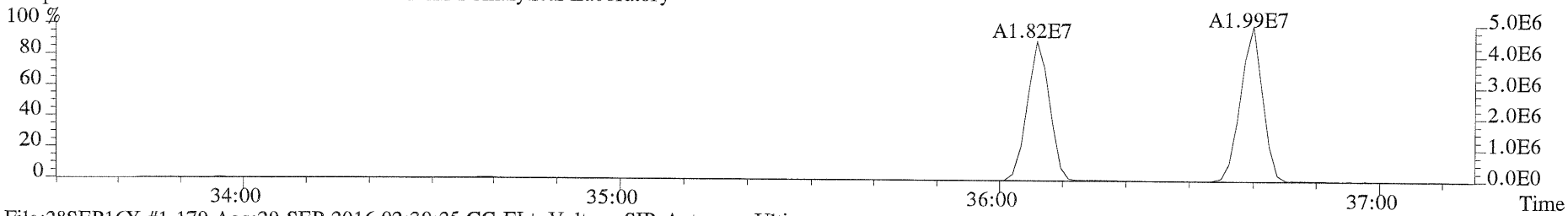
File:28SEP16Y #1-179 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



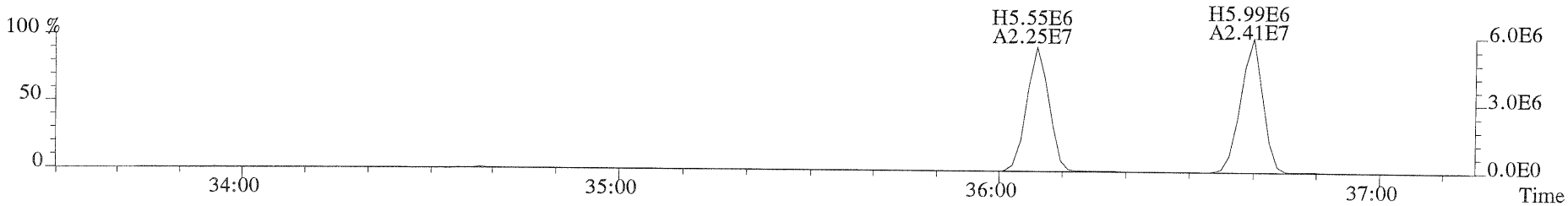
File:28SEP16Y #1-179 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



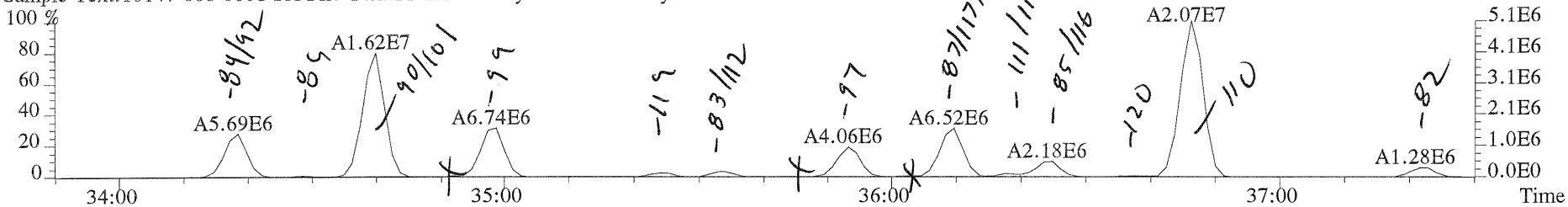
File:28SEP16Y #1-179 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



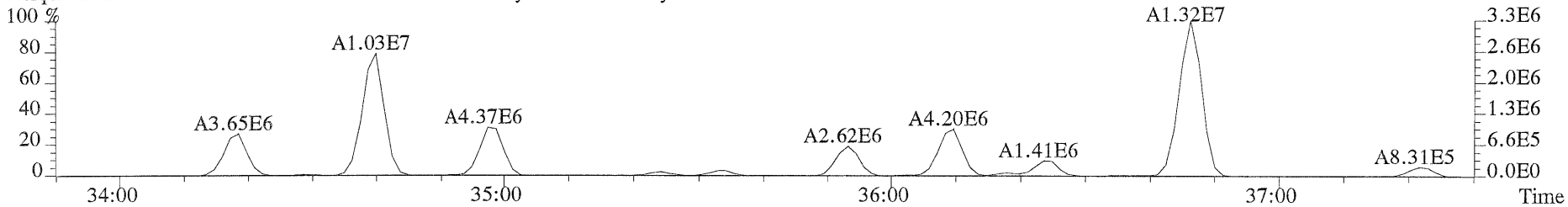
File:28SEP16Y #1-179 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



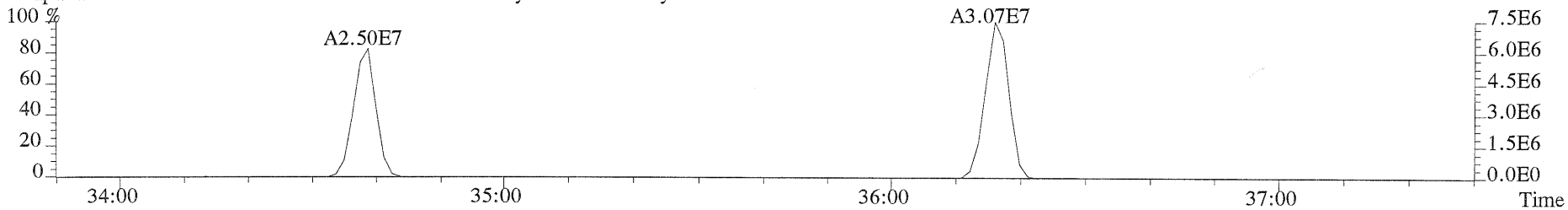
File:28SEP16Y #1-179 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



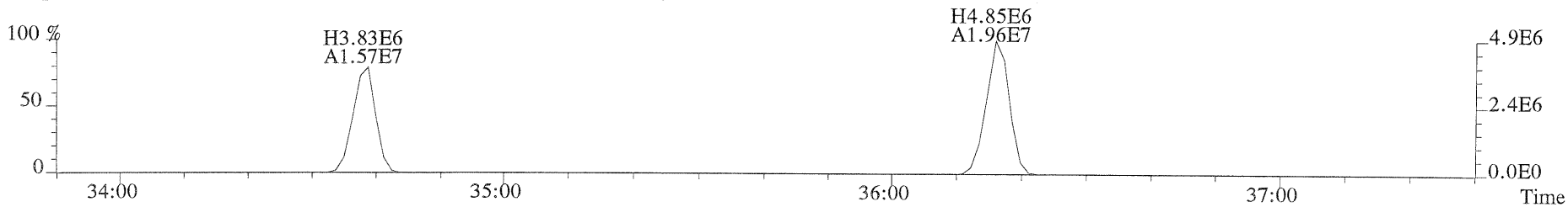
File:28SEP16Y #1-179 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



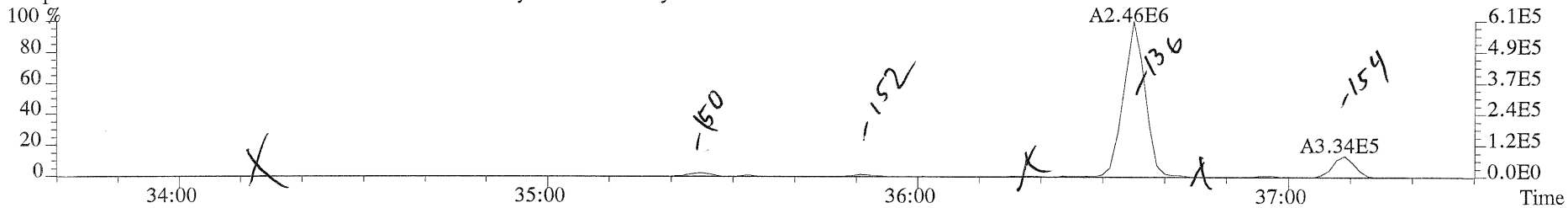
File:28SEP16Y #1-179 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



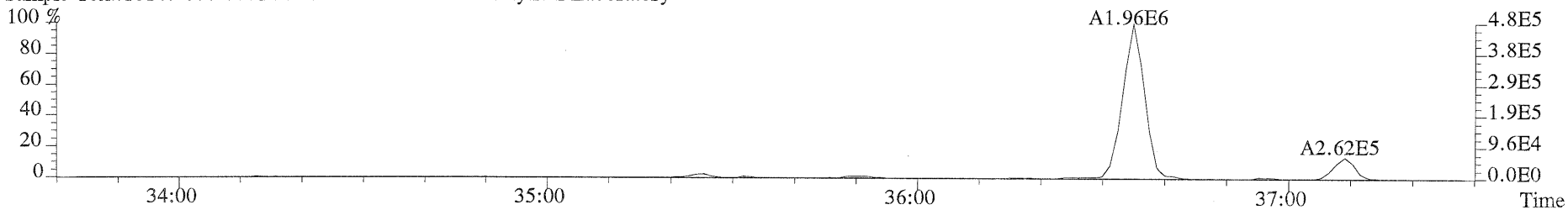
File:28SEP16Y #1-179 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



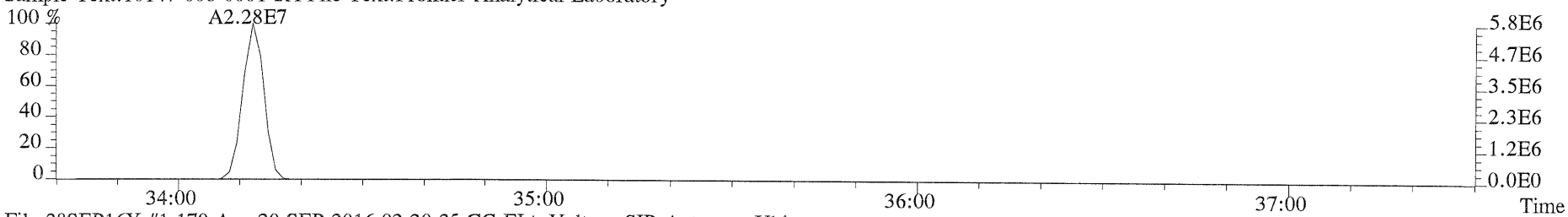
File:28SEP16Y #1-179 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



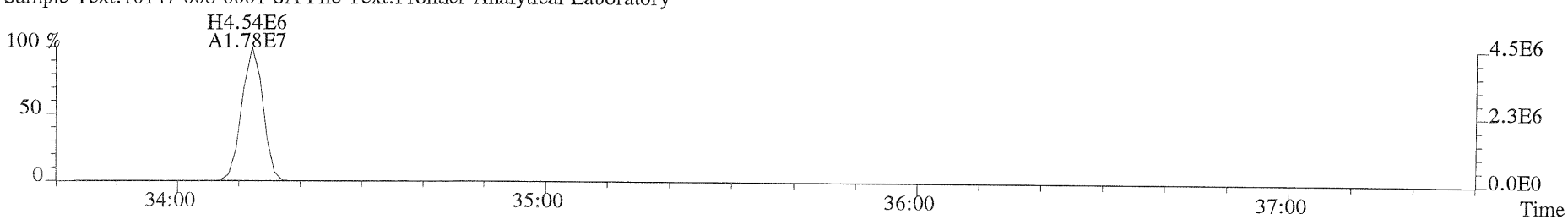
File:28SEP16Y #1-179 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



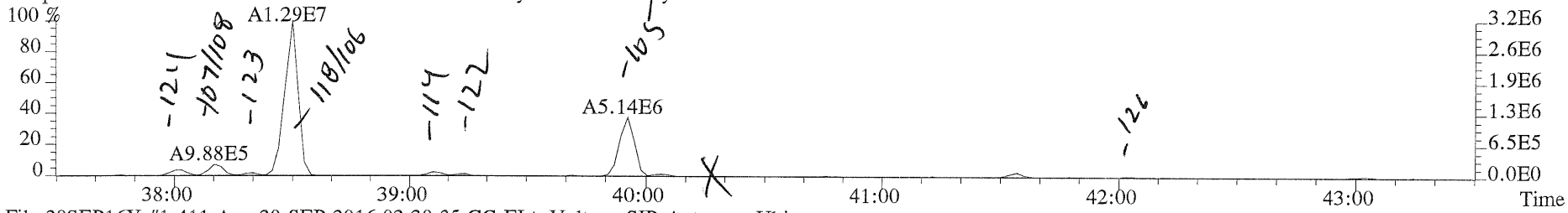
File:28SEP16Y #1-179 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



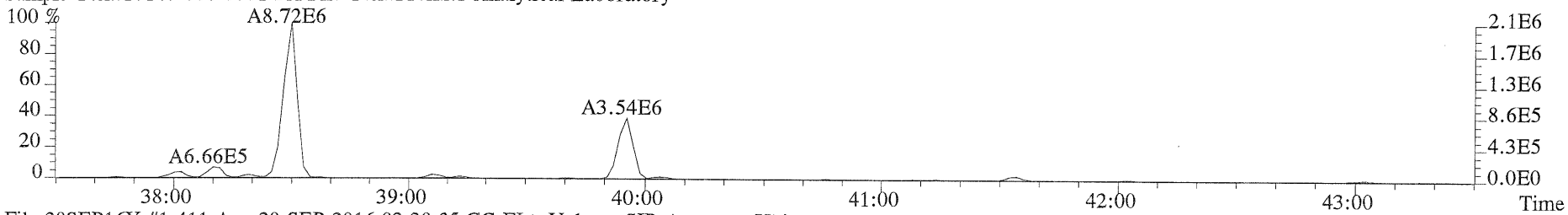
File:28SEP16Y #1-179 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



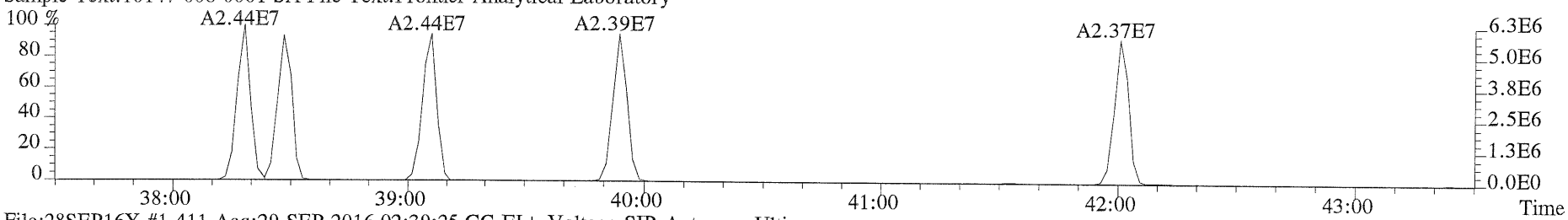
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



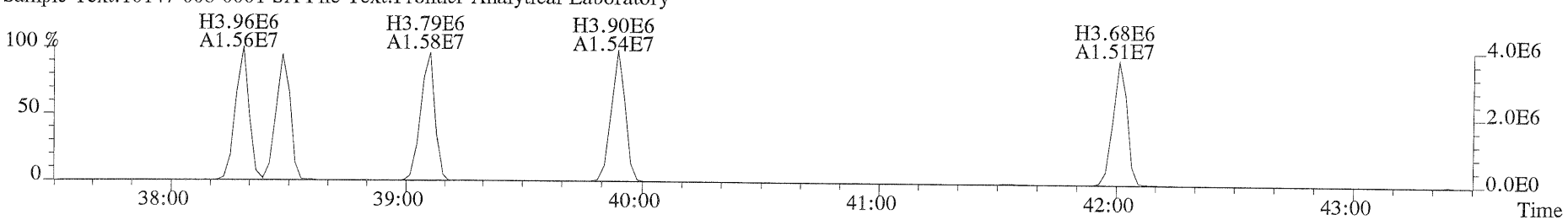
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



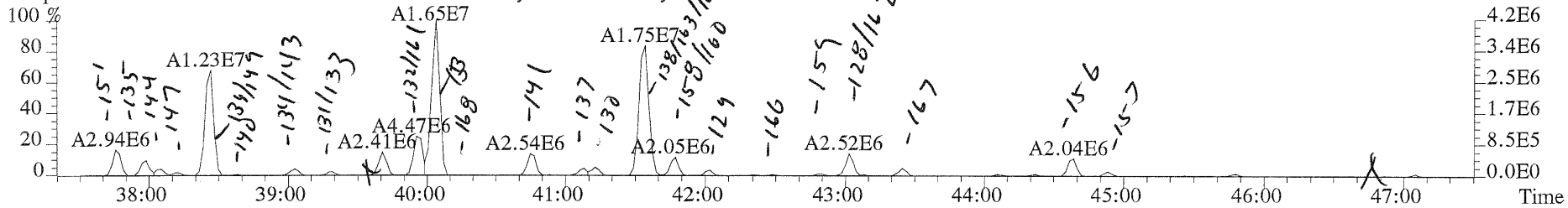
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



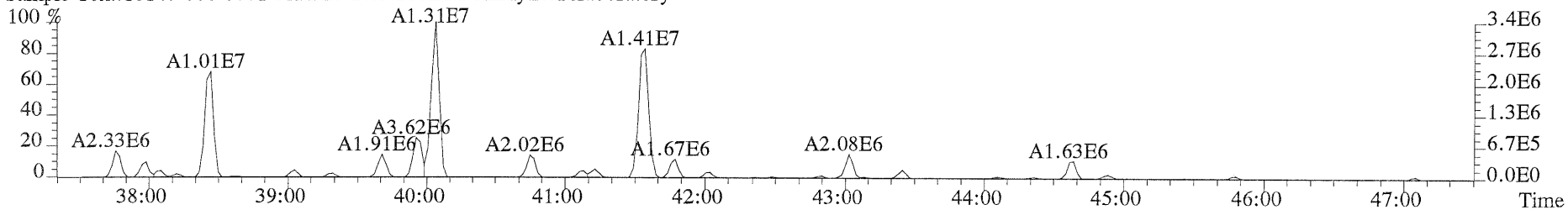
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



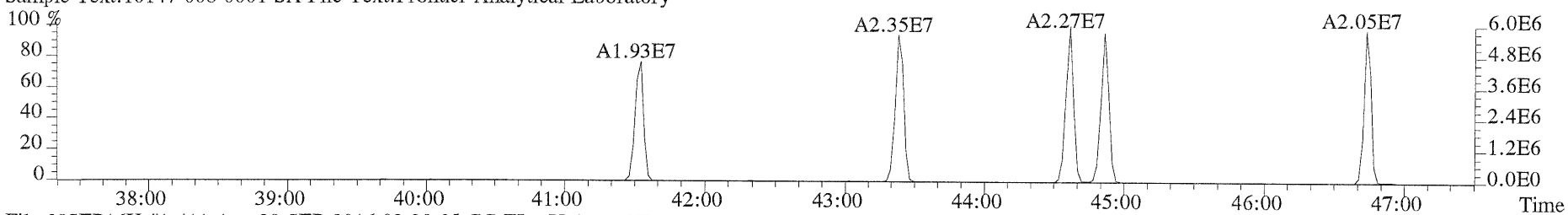
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



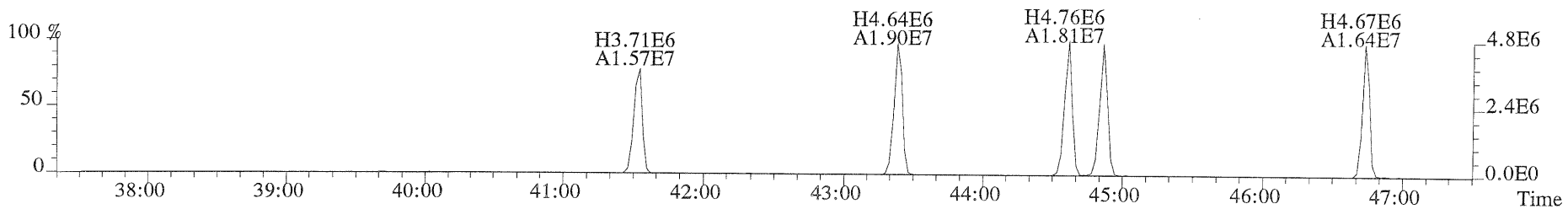
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



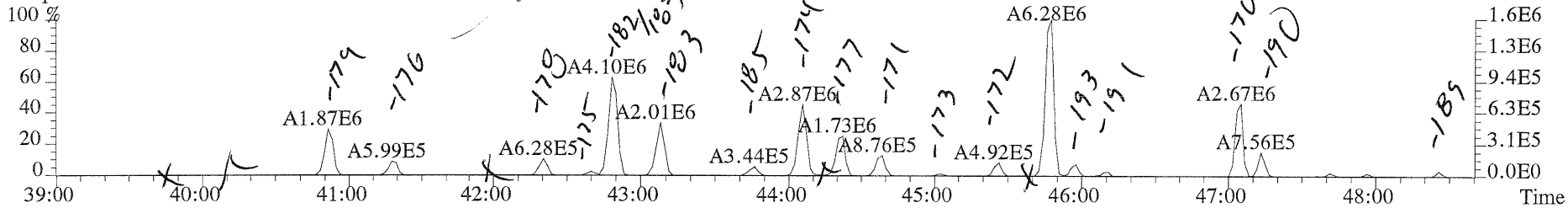
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



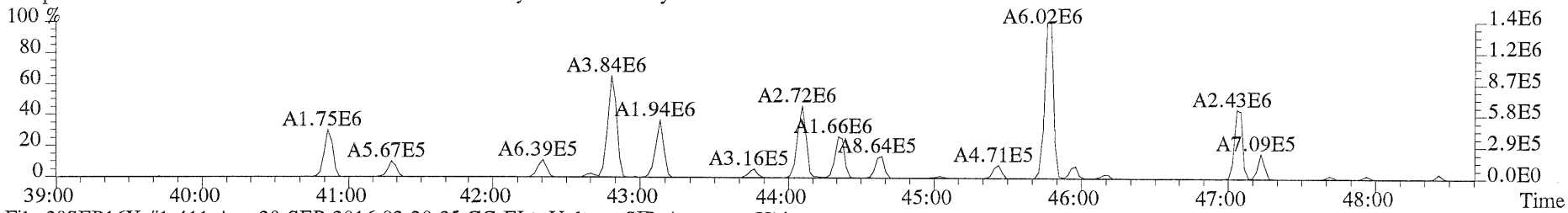
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



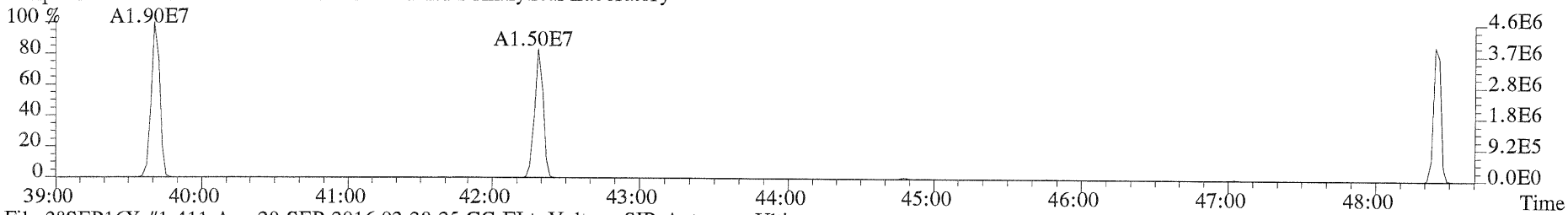
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



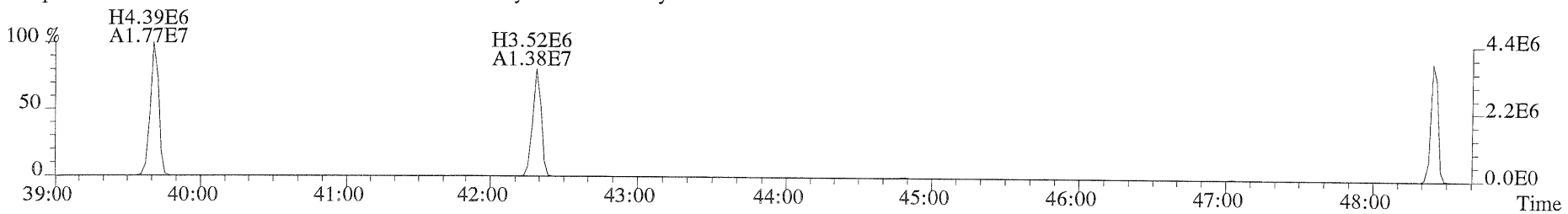
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



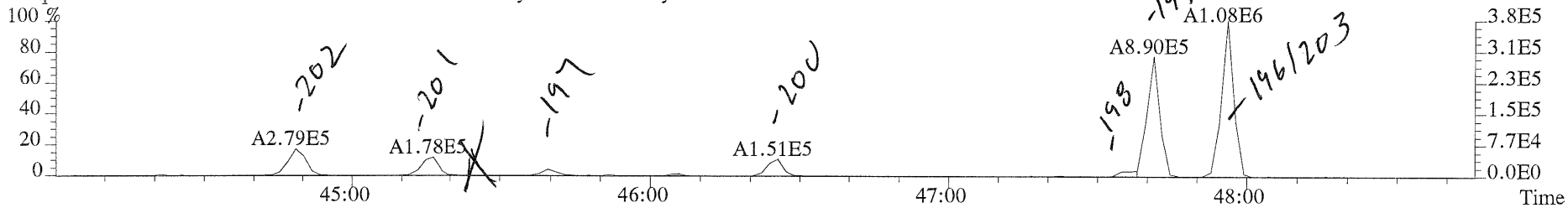
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



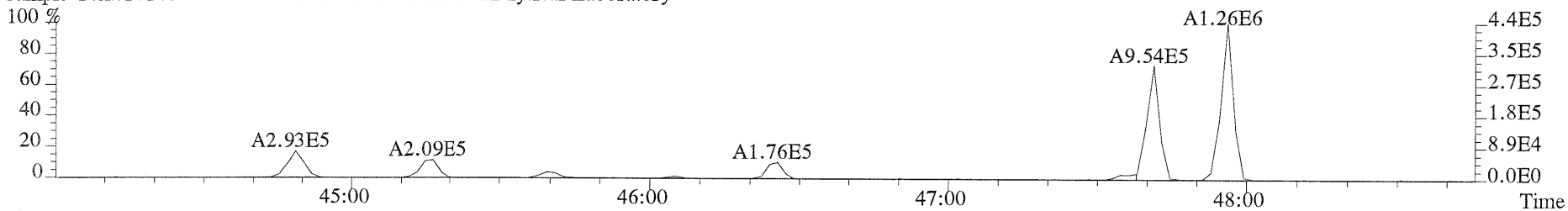
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



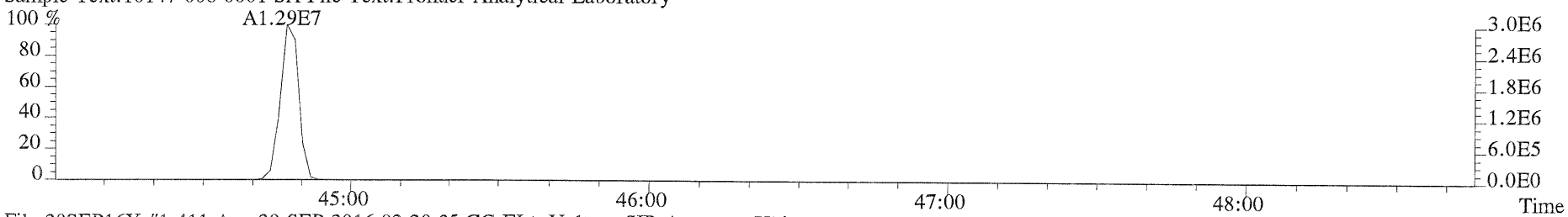
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



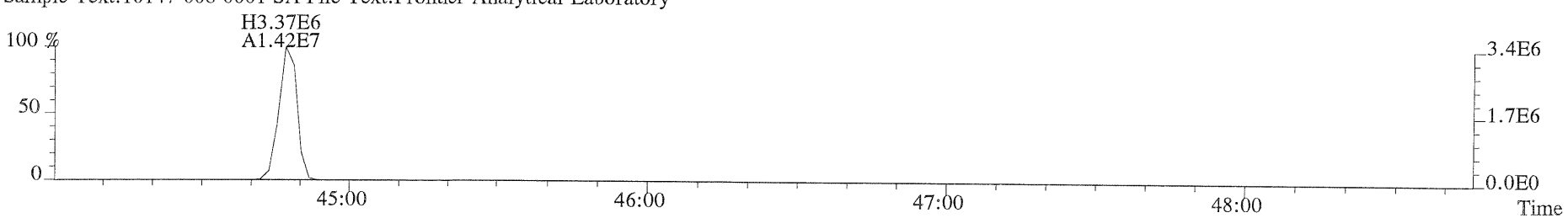
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



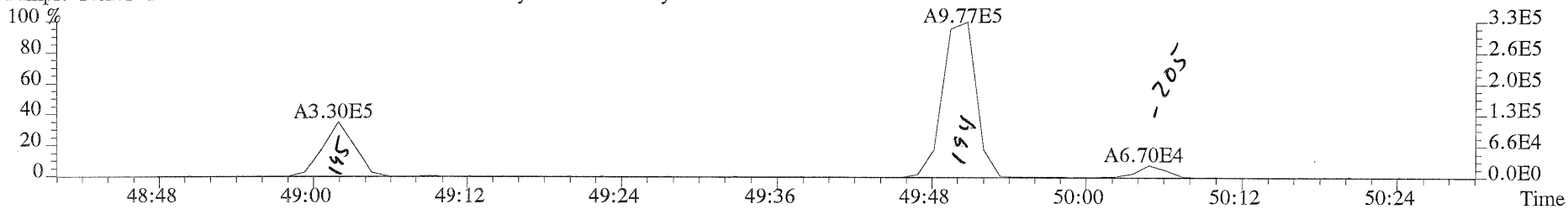
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



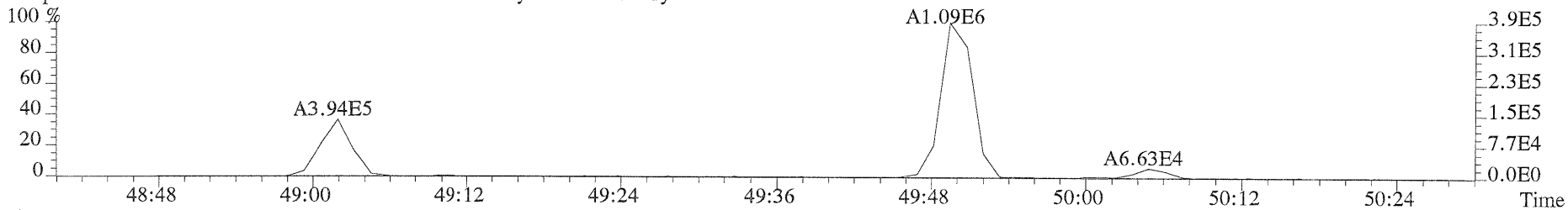
File:28SEP16Y #1-411 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



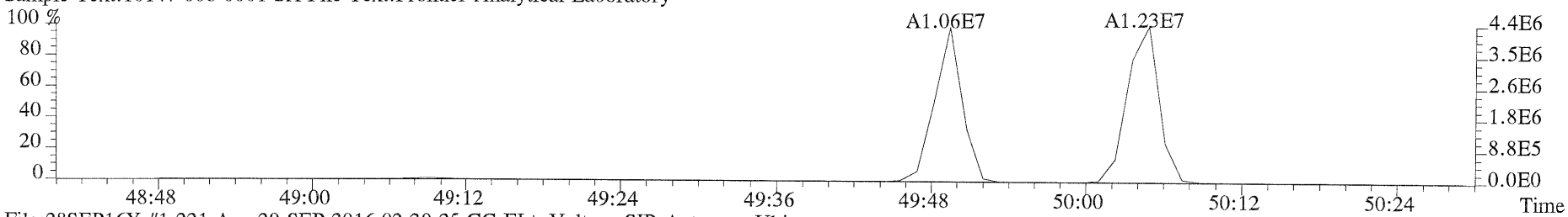
File:28SEP16Y #1-221 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



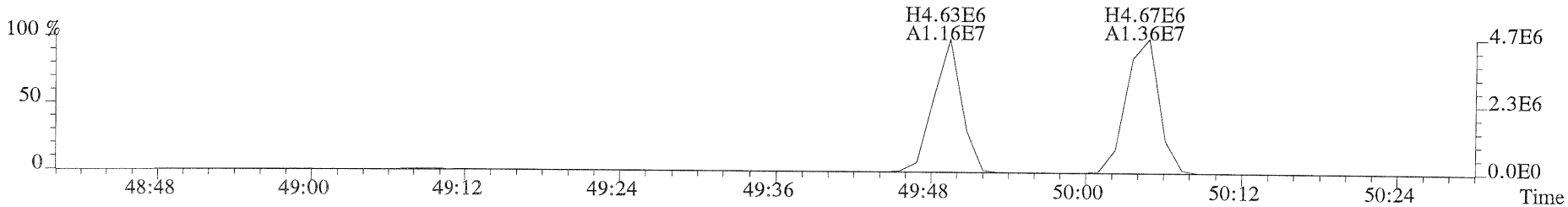
File:28SEP16Y #1-221 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



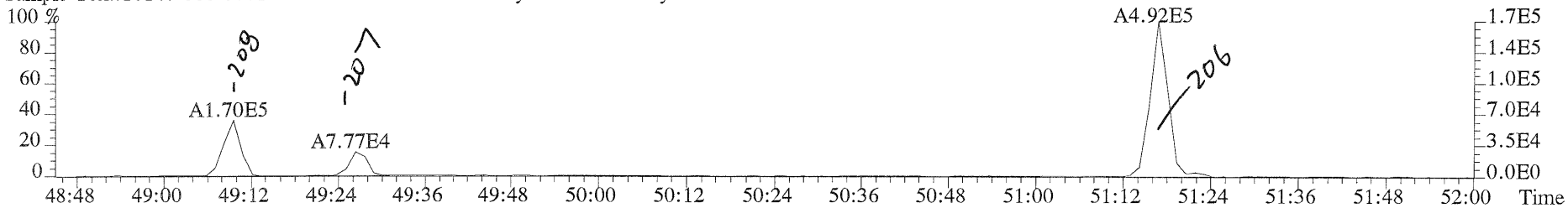
File:28SEP16Y #1-221 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



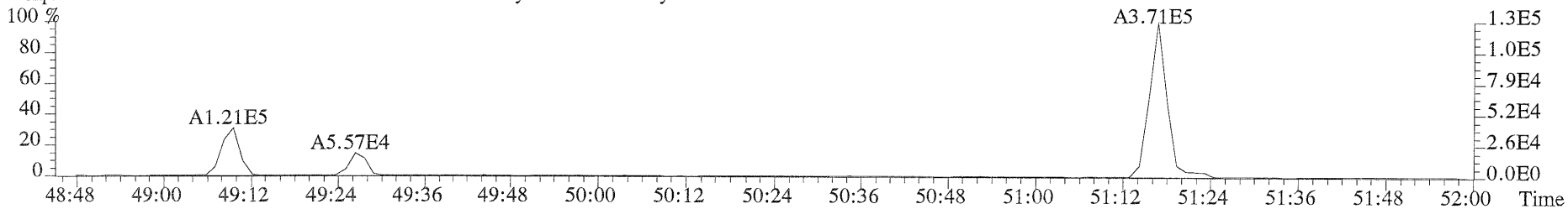
File:28SEP16Y #1-221 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



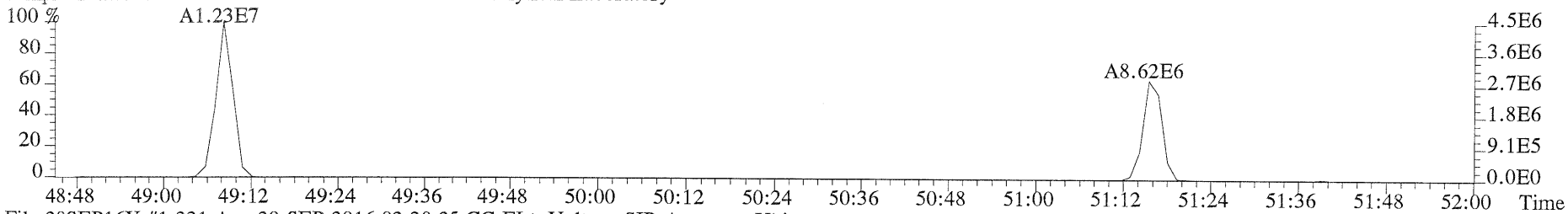
File:28SEP16Y #1-221 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



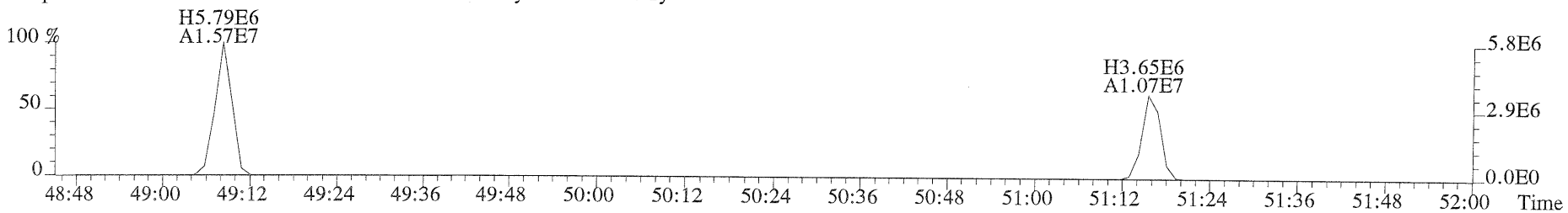
File:28SEP16Y #1-221 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



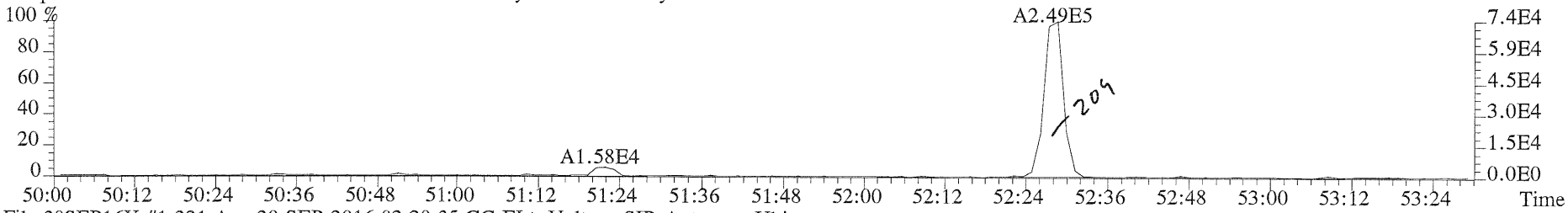
File:28SEP16Y #1-221 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



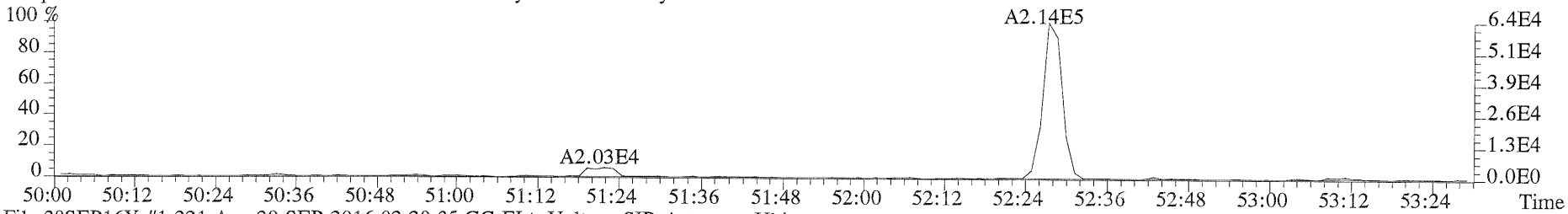
File:28SEP16Y #1-221 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



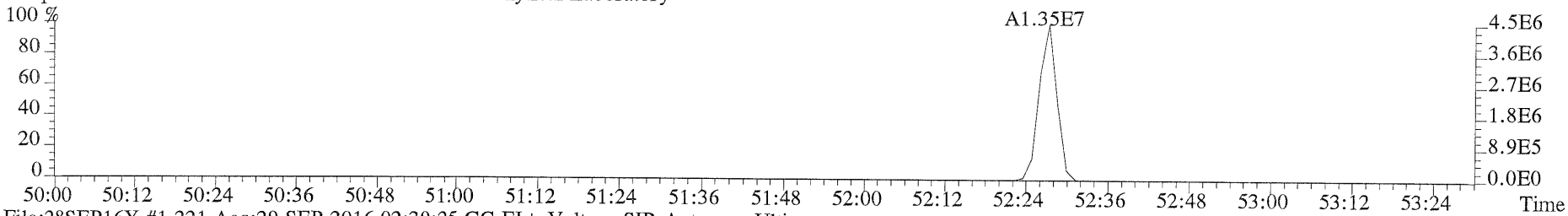
File:28SEP16Y #1-221 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



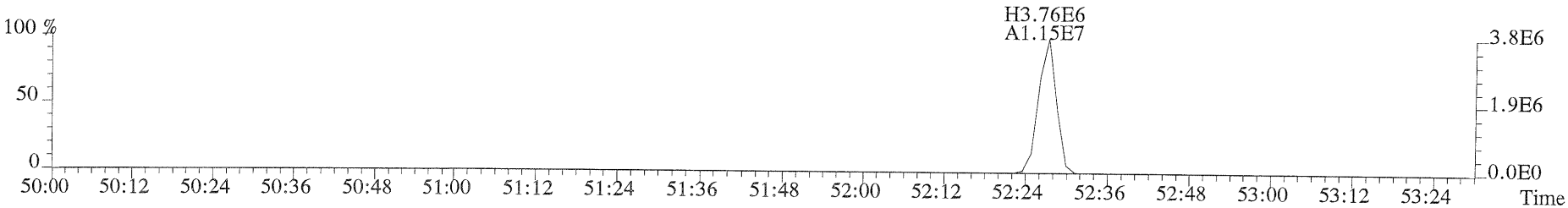
File:28SEP16Y #1-221 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 02:39:25 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-008-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10147-011-0001-SA Filename: 28SEP16Y Sam:17 Acquired: 29-SEP-16 06:25:19 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-IN-ENR+AC-CA-CORE ConCal: ST092816Y2 EndCal: ST092816Y3
Results: 10147 GC Column: DB1 Amount: 5.060

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	2.08e+06	3.05 y	14:31	1.00	49.1		-	-	*	
13C-PCB-1	8.38e+07	3.14 y	14:30	1.29	1490					75.5
PCB-2	4.58e+05	2.96 y	16:43	0.91	11.3		-	-	*	
PCB-3	1.07e+06	2.91 y	16:56	0.96	24.1		-	-	*	
13C-PCB-3	9.15e+07	3.20 y	16:55	1.26	1670					84.4
PCB-4	2.96e+06	1.49 y	18:11	0.95	118		-	-	*	
PCB-10	1.33e+05	1.51 y	18:15	1.14	3.35	J	-	-	*	
13C-PCB-4	5.21e+07	1.58 y	18:10	0.64	1860					94.2
PCB-9	1.12e+06	1.49 y	19:55	1.21	26.6		-	-	*	
PCB-7	1.12e+06	1.49 y	19:55	1.16	27.8		-	-	*	
PCB-6	1.48e+07	1.53 y	20:30	1.14	372		-	-	*	
PCB-8	1.79e+07	1.54 y	20:52	1.15	449		-	-	*	
PCB-5	*	* n	NotFnd	1.17	*		1520	1610	0.638	
PCB-14	*	* n	NotFnd	1.14	*		1520	1610	0.654	
PCB-11	1.59e+06	1.49 y	23:02	1.10	41.6		-	-	*	
PCB-13	2.12e+06	1.49 y	23:23	1.08	56.4		-	-	*	
PCB-12	4.83e+05	1.34 y	23:25	1.17	11.9		-	-	*	
PCB-15	8.74e+06	1.45 y	23:42	1.08	187		-	-	*	
13C-PCB-15	8.53e+07	1.59 y	23:41	1.00	1960					99.3
PCB-19	1.63e+06	1.09 y	22:05	1.04	67.8		-	-	*	
PCB-30	*	* n	NotFnd	1.45	*		1500	1600	0.770	
PCB-18	2.76e+07	1.05 y	23:37	1.01	1170		-	-	*	
PCB-17	1.21e+07	1.05 y	23:47	1.08	485		-	-	*	
PCB-27	1.48e+06	1.01 y	24:18	1.55	41.2		-	-	*	
PCB-24	1.05e+06	1.15 y	24:19	1.32	34.4		-	-	*	
PCB-16	7.48e+06	1.01 y	24:47	1.15	281		-	-	*	
PCB-32	9.76e+06	1.08 y	24:49	1.34	314		-	-	*	
13C-PCB-19	4.58e+07	1.07 y	22:03	0.66	1590					80.4
13C-PCB-9	8.62e+07	1.60 y	19:51	-	10.3					
PCB-34	6.83e+05	1.04 y	25:34	0.81	30.2		-	-	*	
PCB-23	6.83e+05	1.04 y	25:34	0.90	27.2		-	-	*	
PCB-29	2.71e+05	1.10 y	25:53	0.90	10.9		-	-	*	
PCB-26	1.32e+08	1.00 y	26:06	0.97	4900		-	-	*	
PCB-25	4.05e+07	0.99 y	26:15	1.21	1210		-	-	*	
PCB-31	4.35e+07	0.96 y	26:35	0.97	1610		-	-	*	
PCB-28	4.73e+07	1.00 y	26:41	1.08	1580		-	-	*	
PCB-20	2.64e+07	0.97 y	27:17	1.02	929		-	-	*	Co-elute PCB 21/33
PCB-21	2.64e+07	0.97 y	27:17	1.02	929		-	-	*	Co-elute PCB 20/33
PCB-33	2.64e+07	0.97 y	27:17	1.02	929		-	-	*	Co-elute PCB 20/21
PCB-22	1.39e+07	1.00 y	27:41	1.08	463		-	-	*	
PCB-36	*	* n	NotFnd	0.96	*		654	711	0.692	
PCB-39	*	* n	NotFnd	1.00	*		654	711	0.667	
PCB-38	*	* n	NotFnd	0.91	*		654	711	0.728	
PCB-35	*	* n	NotFnd	1.01	*		654	711	0.656	
PCB-37	9.60e+06	0.98 y	30:27	1.08	321		-	-	*	
13C-PCB-37	5.49e+07	1.08 y	30:26	1.03	2150					109

PCB-54	1.42e+05	0.83	y	25:37	1.04	4.86	-	-	*	
PCB-50	2.85e+05	0.78	y	26:42	0.79	12.8	-	-	*	
PCB-53	7.83e+06	0.78	y	27:19	0.80	351	-	-	*	
PCB-51	2.06e+06	0.76	y	27:39	0.84	87.9	-	-	*	
PCB-45	5.12e+06	0.77	y	28:03	0.72	255	-	-	*	
PCB-46	2.22e+06	0.76	y	28:31	0.69	114	-	-	*	
PCB-52	3.04e+08	0.77	y	28:58	0.99	10900	-	-	*	Co-elute PCB 69
PCB-69	3.04e+08	0.77	y	28:58	0.99	10900	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.07	*	884	877	0.552	
PCB-43	1.46e+08	0.77	y	29:15	0.79	6620	-	-	*	Co-elute PCB 49
PCB-49	1.46e+08	0.77	y	29:15	0.79	6620	-	-	*	Co-elute PCB 43
PCB-47	2.99e+07	0.77	y	29:28	1.07	998	-	-	*	
PCB-48	1.08e+07	0.78	y	29:34	0.94	409	-	-	*	Co-elute PCB 75
PCB-75	1.08e+07	0.78	y	29:34	0.94	409	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*	884	877	0.596	
PCB-62	*	*	n	NotFnd	0.99	*	884	877	0.594	
PCB-44	9.58e+07	0.78	y	30:16	0.73	4650	-	-	*	
PCB-42	3.12e+07	0.78	y	30:31	0.98	1130	-	-	*	Co-elute PCB 59
PCB-59	3.12e+07	0.78	y	30:31	0.98	1130	-	-	*	Co-elute PCB 42
PCB-72	6.42e+07	0.78	y	31:00	1.09	2110	-	-	*	Co-elute PCB 41/71/64
PCB-41	6.42e+07	0.78	y	31:00	1.09	2110	-	-	*	Co-elute PCB 72/71/64
PCB-71	6.42e+07	0.78	y	31:00	1.09	2110	-	-	*	Co-elute PCB 72/41/64
PCB-64	6.42e+07	0.78	y	31:00	1.09	2110	-	-	*	Co-elute PCB 72/41/71
PCB-68	3.14e+06	0.78	y	31:13	1.12	99.4	-	-	*	
PCB-40	5.87e+06	0.78	y	31:24	0.63	330	-	-	*	
PCB-57	8.52e+06	0.78	y	31:45	1.08	281	-	-	*	
PCB-67	1.86e+07	0.78	y	32:02	1.07	619	-	-	*	
PCB-58	1.46e+06	0.82	y	32:09	1.08	47.9	-	-	*	
PCB-63	6.78e+06	0.79	y	32:17	1.08	224	-	-	*	
PCB-74	4.69e+07	0.78	y	32:34	1.18	1410	-	-	*	
PCB-61	1.36e+08	0.78	y	32:47	1.15	4200	-	-	*	Co-elute PCB 70
PCB-70	1.36e+08	0.78	y	32:47	1.15	4200	-	-	*	Co-elute PCB 61
PCB-76	1.07e+08	0.78	y	32:58	1.13	3360	-	-	*	Co-elute PCB 66
PCB-66	1.07e+08	0.78	y	32:58	1.13	3360	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.27	*	884	877	0.465	
PCB-55	9.99e+06	0.78	y	33:28	1.13	315	-	-	*	
13C-PCB-54	5.55e+07	0.81	y	25:35	1.09	2050				103
PCB-104	*	*	n	NotFnd	1.13	*	511	553	0.613	
PCB-96	1.40e+06	1.55	y	31:15	1.06	71.0	-	-	*	
PCB-103	3.63e+06	1.55	y	31:46	0.88	220	-	-	*	
PCB-100	1.53e+06	1.53	y	32:06	0.87	93.8	-	-	*	
PCB-94	9.89e+05	1.54	y	32:33	0.74	70.9	-	-	*	
PCB-98	*	*	n	NotFnd	1.06	*	511	553	0.655	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	1.06	*	511	553	0.655	Co-elute PCB 98
PCB-95	2.16e+08	1.57	y	33:03	0.63	18200	-	-	*	
PCB-93	*	*	n	NotFnd	0.63	*	511	553	1.10	
PCB-88	3.45e+07	1.58	y	33:26	0.83	2220	-	-	*	Co-elute PCB 91
PCB-91	3.45e+07	1.58	y	33:26	0.83	2220	-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.99	*	511	553	0.701	
13C-PCB-104	3.70e+07	1.59	y	30:06	0.98	1520				77.0
13C-PCB-28	6.13e+07	1.08	y	26:40	1.01	2440				123
13C-PCB-52	4.91e+07	0.79	y	28:56	-	8.17				

PCB-56	2.54e+07	0.71	y	33:56	0.89	1120	-	-	*	Co-elute PCB 60
PCB-60	2.54e+07	0.71	y	33:56	0.89	1120	-	-	*	Co-elute PCB 56
PCB-79	1.77e+06	0.66	y	34:58	1.00	69.4	-	-	*	
PCB-78	4.84e+05	0.71	y	35:33	0.97	19.6	-	-	*	
PCB-81	2.63e+06	0.66	y	36:09	1.07	101	-	-	*	
13C-PCB-81	4.80e+07	0.81	y	36:06	0.96	2250				114
PCB-77	5.44e+06	0.75	y	36:40	1.01	202	-	-	*	
13C-PCB-77	5.26e+07	0.81	y	36:39	1.02	2320				118
PCB-155	*	*	n	NotFnd	1.05	*	811	921	0.753	
PCB-150	4.75e+05	1.31	y	35:24	0.96	22.8	-	-	*	
PCB-152	4.19e+05	1.31	y	35:51	0.94	20.5	-	-	*	
PCB-145	1.51e+05	1.29	y	36:16	0.94	7.41	-	-	*	
PCB-136	3.88e+07	1.28	y	36:35	0.94	1890	-	-	*	
PCB-148	*	*	n	NotFnd	0.68	*	811	921	1.17	
PCB-154	3.29e+06	1.29	y	37:08	0.80	190	-	-	*	
13C-PCB-155	4.30e+07	1.27	y	34:11	1.15	1680				85.2
13C-PCB-111	5.08e+07	1.58	y	36:16	1.14	2010				102
13C-PCB-101	4.38e+07	1.58	y	34:37	-	7.62				
PCB-84	1.41e+08	1.56	y	34:17	0.87	7000	-	-	*	Co-elute PCB 92
PCB-92	1.41e+08	1.56	y	34:17	0.87	7000	-	-	*	Co-elute PCB 84
PCB-89	1.86e+06	1.69	y	34:27	0.86	92.9	-	-	*	
PCB-90	2.73e+08	1.56	y	34:39	0.98	12000	-	-	*	Co-elute PCB 101
PCB-101	2.73e+08	1.56	y	34:39	0.98	12000	-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.12	*	945	899	0.732	
PCB-99	1.36e+08	1.56	y	34:58	1.06	5530	-	-	*	
PCB-119	1.47e+07	1.57	y	35:23	1.26	505	-	-	*	
PCB-83	1.86e+07	1.56	y	35:33	1.00	800	-	-	*	Co-elute PCB 112
PCB-112	1.86e+07	1.56	y	35:33	1.00	800	-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.13	*	949	899	0.728	
PCB-97	7.73e+07	1.55	y	35:52	1.06	3150	-	-	*	
PCB-86	*	*	n	NotFnd	0.88	*	949	899	0.929	
PCB-125	1.32e+08	1.55	y	36:09	1.13	5000	-	-	*	Co-elute PCB 87/117
PCB-87	1.32e+08	1.55	y	36:09	1.13	5000	-	-	*	Co-elute PCB 125/117
PCB-117	1.32e+08	1.55	y	36:09	1.13	5000	-	-	*	Co-elute PCB 125/87
PCB-111	4.95e+06	1.55	y	36:17	1.45	147	-	-	*	Co-elute PCB 115
PCB-115	4.95e+06	1.55	y	36:17	1.45	147	-	-	*	Co-elute PCB 111
PCB-85	4.57e+07	1.58	y	36:24	1.02	1940	-	-	*	Co-elute PCB 116
PCB-116	4.57e+07	1.58	y	36:24	1.02	1940	-	-	*	Co-elute PCB 85
PCB-120	2.01e+06	1.53	y	36:38	1.34	64.9	-	-	*	
PCB-110	4.60e+08	1.55	y	36:46	1.30	15300	-	-	*	
PCB-82	2.51e+07	1.55	y	37:22	0.75	1440	-	-	*	
PCB-124	1.02e+07	1.47	y	38:00	0.99	445	-	-	*	
PCB-108	2.21e+07	1.49	y	38:10	0.95	1000	-	-	*	Co-elute PCB 107
PCB-107	2.21e+07	1.49	y	38:10	0.95	1000	-	-	*	Co-elute PCB 108
PCB-123	3.47e+06	1.44	y	38:19	1.08	144	-	-	*	
13C-PCB-123	4.40e+07	1.55	y	38:19	0.97	2350				119
PCB-118	2.64e+08	1.49	y	38:28	0.91	12000	-	-	*	Co-elute PCB 106
PCB-106	2.64e+08	1.49	y	38:28	0.91	12000	-	-	*	Co-elute PCB 118
13C-PCB-118	4.78e+07	1.56	y	38:28	1.06	2340				119
PCB-114	5.26e+06	1.45	y	39:06	0.97	237	-	-	*	
13C-PCB-114	4.52e+07	1.54	y	39:05	1.04	2260				114
PCB-122	3.10e+06	1.54	y	39:13	0.95	142	-	-	*	
PCB-105	9.57e+07	1.52	y	39:56	0.94	4340	-	-	*	
13C-PCB-105	4.64e+07	1.59	y	39:54	1.03	2330				118

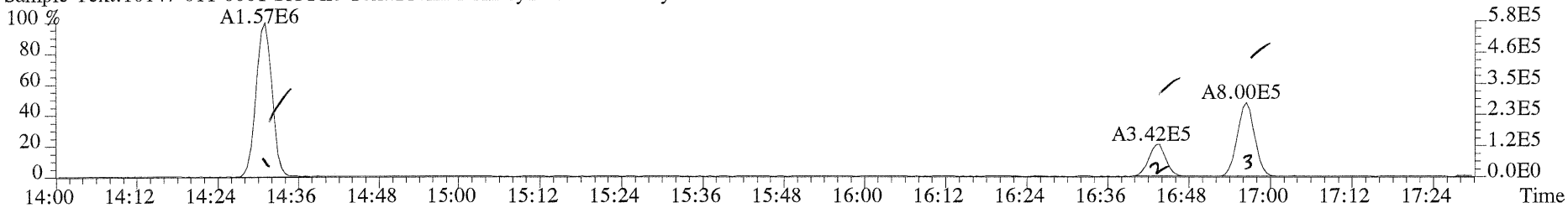
PCB-127	*	*	n	NotFnd	0.86	*		799	1010	0.937		
PCB-126	1.22e+06	1.40	y	42:02	0.98	54.7		-	-	*		
13C-PCB-126	4.49e+07	1.62	y	42:01	0.91	2550					129	
PCB-151	4.12e+07	1.24	y	37:46	0.82	2290		-	-	*		
PCB-135	3.20e+07	1.25	y	37:57	0.88	1650		-	-	*		
PCB-144	8.88e+06	1.26	y	38:04	0.82	493		-	-	*		
PCB-147	6.17e+06	1.25	y	38:12	0.86	325		-	-	*		
PCB-139	1.93e+08	1.25	y	38:25	0.90	9700		-	-	*	Co-elute PCB 149	
PCB-149	1.93e+08	1.25	y	38:25	0.90	9700		-	-	*	Co-elute PCB 139	
PCB-140	1.92e+06	1.22	y	38:37	0.83	104		-	-	*		
PCB-143	1.51e+07	1.24	y	39:03	0.82	836		-	-	*	Co-elute PCB 134	
PCB-134	1.51e+07	1.24	y	39:03	0.82	836		-	-	*	Co-elute PCB 143	
PCB-131	7.23e+06	1.23	y	39:18	0.83	396		-	-	*	Co-elute PCB 133	
PCB-133	7.23e+06	1.23	y	39:18	0.83	396		-	-	*	Co-elute PCB 131	
PCB-142	5.39e+04	1.14	y	39:26	0.71	3.46	J	-	-	*		
PCB-165	3.16e+07	1.28	y	39:41	0.97	1480		-	-	*	Co-elute PCB 146	
PCB-146	3.16e+07	1.28	y	39:41	0.97	1480		-	-	*	Co-elute PCB 165	
PCB-161	9.25e+07	1.25	y	39:56	0.92	4560		-	-	*	Co-elute PCB 132	
PCB-132	9.25e+07	1.25	y	39:56	0.92	4560		-	-	*	Co-elute PCB 161	
PCB-153	1.98e+08	1.24	y	40:04	0.95	9490		-	-	*		
PCB-168	4.75e+05	1.07	y	40:15	1.05	20.4		-	-	*		
PCB-141	3.55e+07	1.22	y	40:45	0.81	1980		-	-	*		
PCB-137	1.40e+07	1.21	y	41:06	0.76	840		-	-	*		
PCB-130	1.58e+07	1.26	y	41:13	0.74	965		-	-	*		
PCB-138	2.78e+08	1.24	y	41:33	1.10	11500		-	-	*	Co-elute PCB 163/164	
PCB-163	2.78e+08	1.24	y	41:33	1.10	11500		-	-	*	Co-elute PCB 138/164	
PCB-164	2.78e+08	1.24	y	41:33	1.10	11500		-	-	*	Co-elute PCB 138/163	
PCB-158	3.44e+07	1.24	y	41:46	1.06	1470		-	-	*	Co-elute PCB 160	
PCB-160	3.44e+07	1.24	y	41:46	1.06	1470		-	-	*	Co-elute PCB 158	
PCB-129	1.05e+07	1.24	y	42:01	0.66	721		-	-	*		
PCB-166	1.27e+06	1.25	y	42:29	0.99	58.4		-	-	*		
PCB-159	1.37e+06	1.26	y	42:48	1.05	59.3		-	-	*		
PCB-128	5.09e+07	1.24	y	43:02	0.90	2560		-	-	*	Co-elute PCB 162	
PCB-162	5.09e+07	1.24	y	43:02	0.90	2560		-	-	*	Co-elute PCB 128	
PCB-167	1.19e+07	1.23	y	43:25	0.94	552		-	-	*		
13C-PCB-167	4.53e+07	1.24	y	43:23	1.12	2090					106	
PCB-156	3.26e+07	1.23	y	44:37	0.99	1450		-	-	*		
13C-PCB-156	4.47e+07	1.23	y	44:35	1.07	2170					110	
PCB-157	7.69e+06	1.26	y	44:54	0.94	366		-	-	*		
13C-PCB-157	4.41e+07	1.24	y	44:52	1.10	2080					105	
PCB-169	*	*	n	NotFnd	0.95	*		911	901	0.760		
13C-PCB-169	4.03e+07	1.24	y	46:44	0.98	2130					108	

FAL ID: 10147-011-0001-SA Filename: 28SEP16Y Sam:17 Acquired: 29-SEP-16 06:25:19 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-IN-ENR+AC-CA-CORE ConCal: ST092816Y2 EndCal: ST092816Y3
Results: 10147 GC Column: DB1 Amount: 5.060

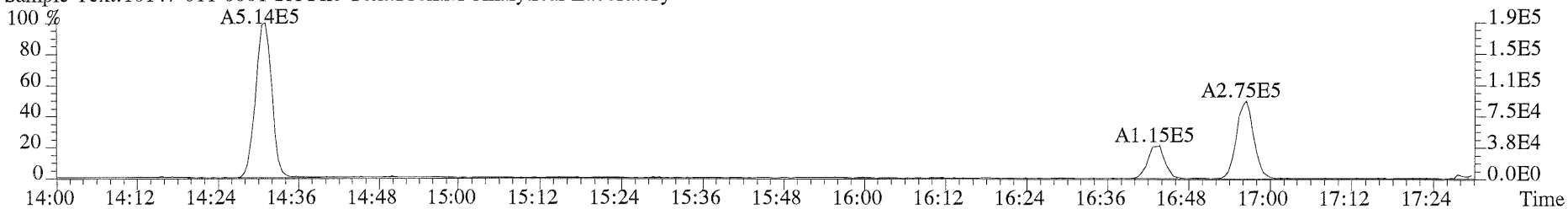
PCB-188	8.38e+04	1.13	y	39:42	1.11	4.05		-	-	*	
13C-PCB-188	3.68e+07	1.06	y	39:41	1.23	1550					78.3
PCB-184	5.22e+04	1.09	y	40:07	1.25	2.38	J	-	-	*	
PCB-179	1.54e+07	1.07	y	40:52	1.23	719		-	-	*	
PCB-176	5.27e+06	1.03	y	41:18	1.19	253		-	-	*	
PCB-186	*	*	n	NotFnd	1.18	*		945	1010	0.797	
PCB-178	5.24e+06	1.04	y	42:20	0.85	350		-	-	*	
PCB-175	1.24e+06	1.04	y	42:40	0.89	79.7		-	-	*	
PCB-187	3.27e+07	1.06	y	42:48	0.95	1970		-	-	*	Co-elute PCB 182
PCB-182	3.27e+07	1.06	y	42:48	0.95	1970		-	-	*	Co-elute PCB 187
PCB-183	1.67e+07	1.04	y	43:08	0.95	1000		-	-	*	
PCB-185	2.55e+06	1.04	y	43:44	0.86	170		-	-	*	
PCB-174	2.65e+07	1.04	y	44:06	0.89	1700		-	-	*	
PCB-181	*	*	n	NotFnd	0.82	*		945	1010	1.15	
PCB-177	1.62e+07	1.05	y	44:21	0.74	1250		-	-	*	
PCB-171	8.52e+06	1.03	y	44:37	0.82	590		-	-	*	
PCB-173	6.42e+05	1.16	y	45:02	0.73	50.4		-	-	*	
PCB-172	4.53e+06	1.07	y	45:25	0.75	347		-	-	*	
PCB-192	*	*	n	NotFnd	0.96	*		945	1010	0.973	
PCB-180	5.69e+07	1.06	y	45:46	0.98	3310		-	-	*	
PCB-193	3.54e+06	1.08	y	45:56	1.05	192		-	-	*	
PCB-191	1.44e+06	1.06	y	46:09	0.97	84.2		-	-	*	
PCB-170	2.49e+07	1.05	y	47:04	0.64	2200		-	-	*	
PCB-190	6.03e+06	1.05	y	47:13	0.88	389		-	-	*	
PCB-189	1.40e+06	1.07	y	48:26	1.10	77.7		-	-	*	
13C-PCB-189	3.24e+07	1.05	y	48:24	0.90	1870					94.4
PCB-202	1.83e+06	0.88	y	44:49	0.95	129		-	-	*	
PCB-201	1.26e+06	0.88	y	45:15	0.92	91.4		-	-	*	
PCB-204	*	*	n	NotFnd	0.92	*		655	699	0.933	
PCB-197	3.69e+05	0.86	y	45:40	0.93	26.7		-	-	*	
PCB-200	1.08e+06	0.89	y	46:24	0.88	81.9		-	-	*	
PCB-198	3.00e+05	0.98	y	47:35	0.60	33.5		-	-	*	
PCB-199	6.70e+06	0.88	y	47:41	0.55	809		-	-	*	
PCB-203	7.37e+06	0.88	y	47:56	0.64	765		-	-	*	Co-elute PCB 196
PCB-196	7.37e+06	0.88	y	47:56	0.64	765		-	-	*	Co-elute PCB 203
13C-PCB-202	2.95e+07	0.90	y	44:47	1.00	1530					77.3
13C-PCB-178	2.83e+07	1.07	y	42:19	0.84	1750					88.5
13C-PCB-138	3.81e+07	1.24	y	41:31	-	7.72					
PCB-195	2.27e+06	0.87	y	49:02	0.75	216		-	-	*	
PCB-194	7.10e+06	0.88	y	49:50	0.76	667		-	-	*	
PCB-205	4.19e+05	0.89	y	50:05	1.00	29.8		-	-	*	
13C-PCB-205	2.77e+07	0.89	y	50:04	1.27	1900					96.2
PCB-208	1.31e+06	1.39	y	49:08	0.93	94.5		-	-	*	
13C-PCB-208	2.95e+07	0.79	y	49:08	1.49	1720					87.1
PCB-207	4.15e+05	1.39	y	49:26	1.00	32.4		-	-	*	
PCB-206	4.28e+06	1.32	y	51:17	0.99	402		-	-	*	
13C-PCB-206	2.12e+07	0.78	y	51:16	1.02	1810					91.6
PCB-209	6.73e+06	1.17	y	52:27	1.06	460		-	-	*	
13C-PCB-209	2.74e+07	1.19	y	52:27	1.58	1520					76.7
13C-PCB-194	2.27e+07	0.90	y	49:48	-	8.55					

Analyst: K Date: 10/7/16

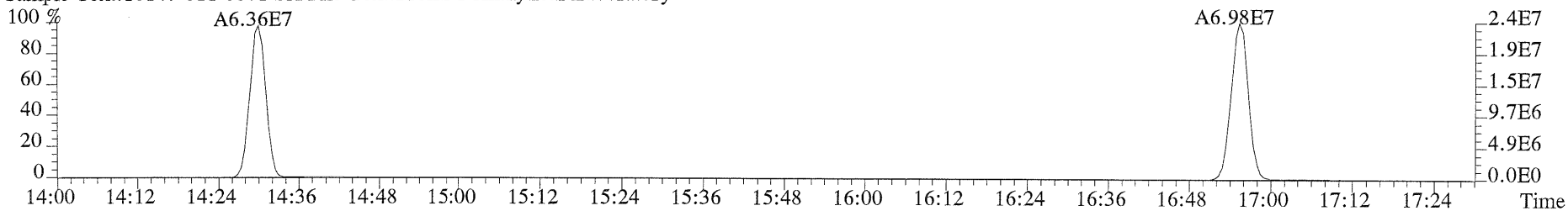
File:28SEP16Y #1-784 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:17 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



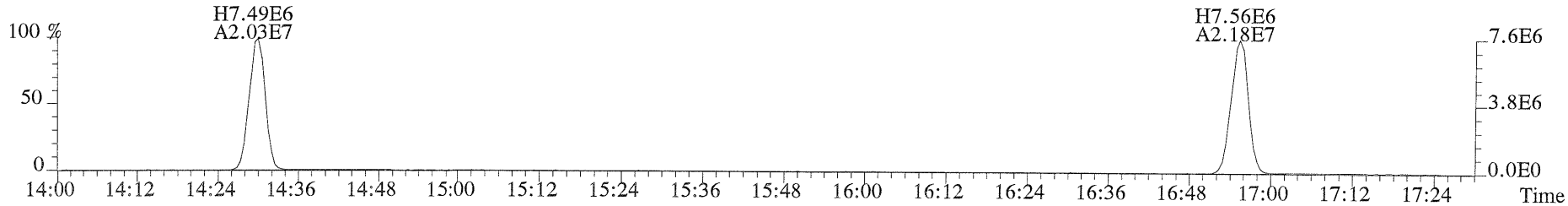
File:28SEP16Y #1-784 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:17 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



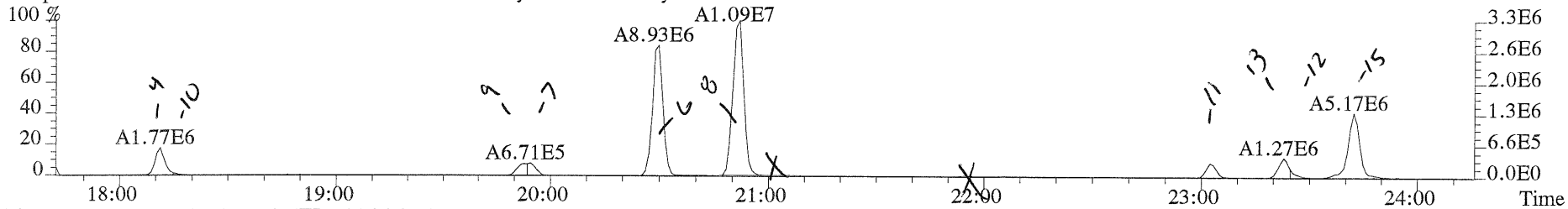
File:28SEP16Y #1-784 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:17 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



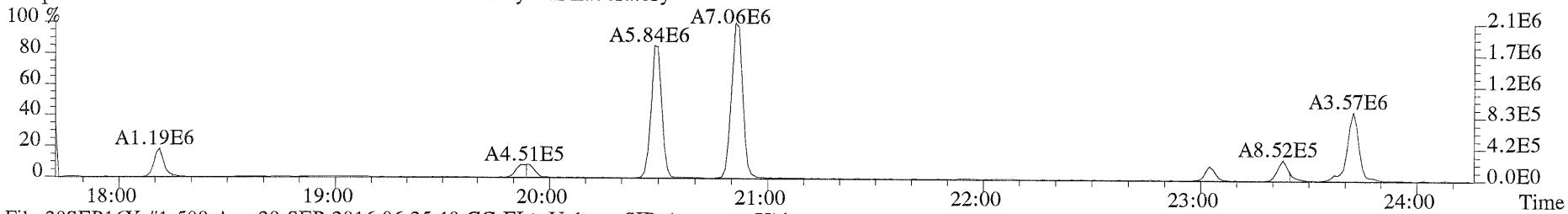
File:28SEP16Y #1-784 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:17 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



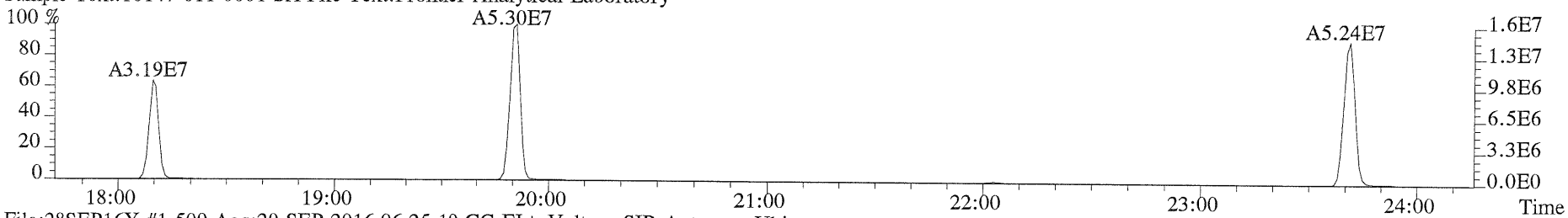
File:28SEP16Y #1-509 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:17 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



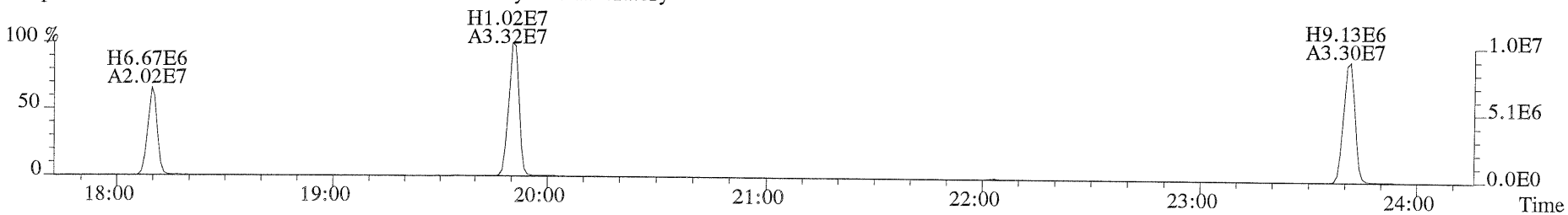
File:28SEP16Y #1-509 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:17 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



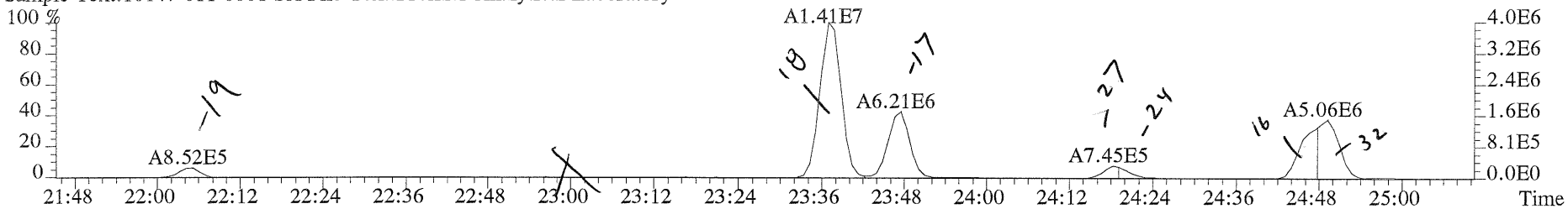
File:28SEP16Y #1-509 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:17 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



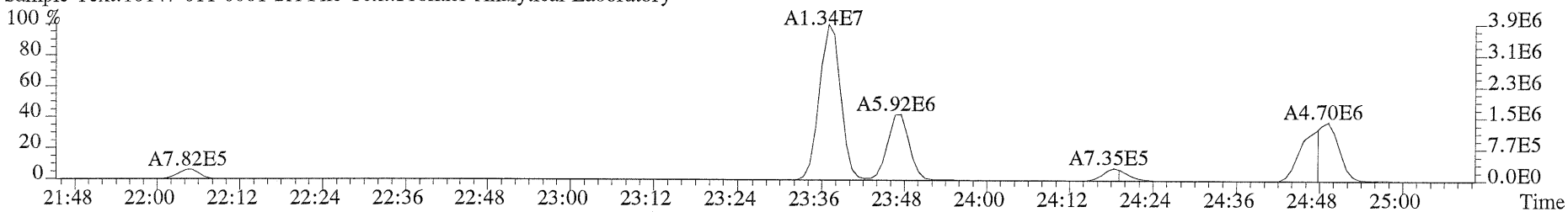
File:28SEP16Y #1-509 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:17 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



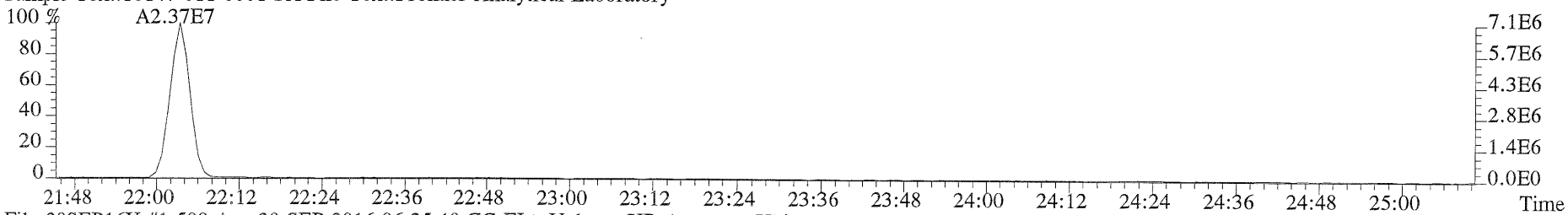
File:28SEP16Y #1-509 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:17 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



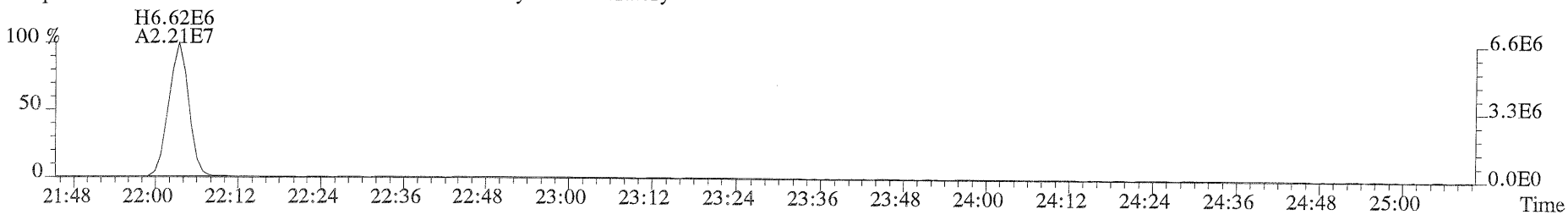
File:28SEP16Y #1-509 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:17 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



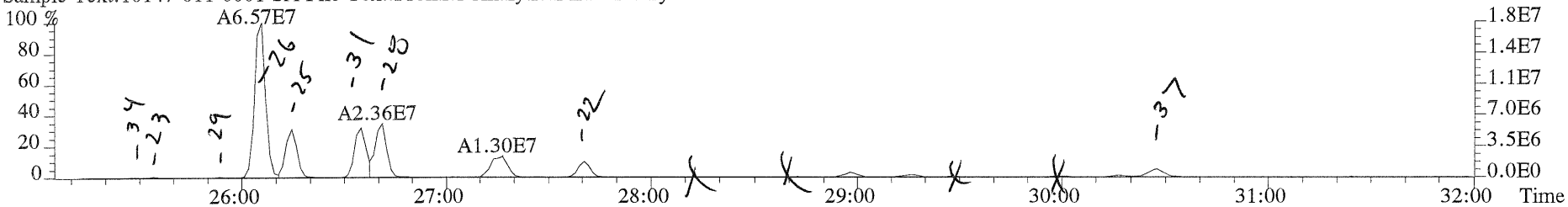
File:28SEP16Y #1-509 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:17 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



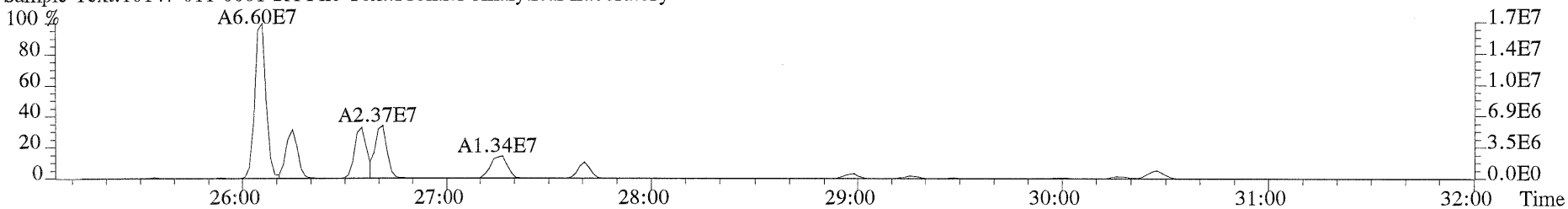
File:28SEP16Y #1-509 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:17 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



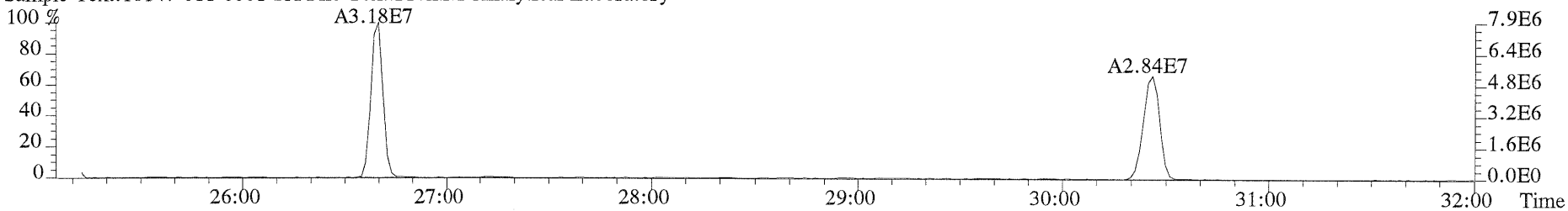
File:28SEP16Y #1-403 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



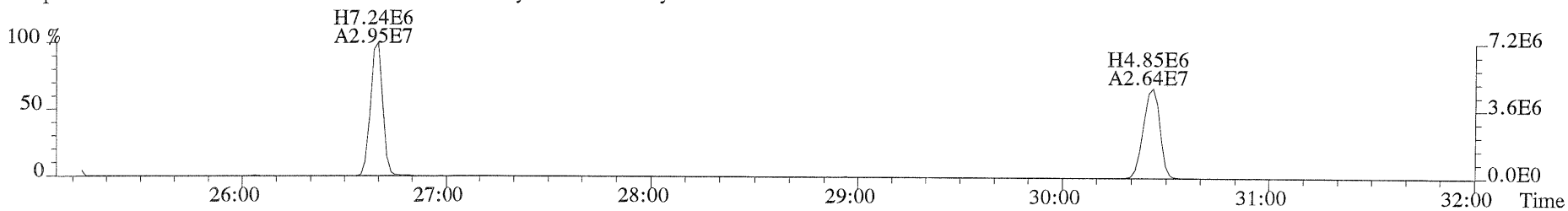
File:28SEP16Y #1-403 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



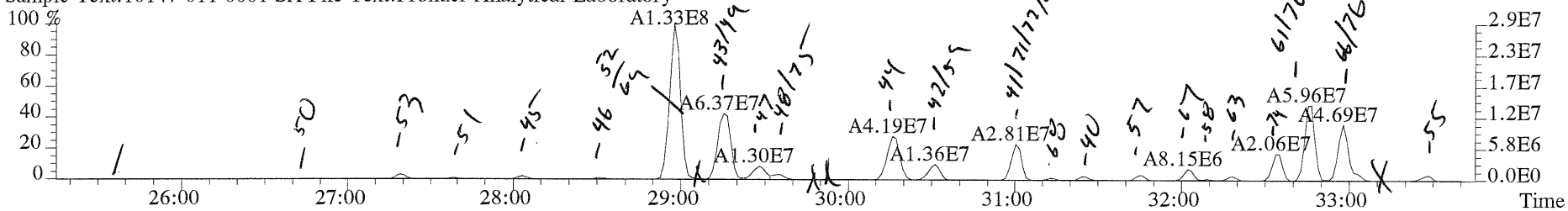
File:28SEP16Y #1-403 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



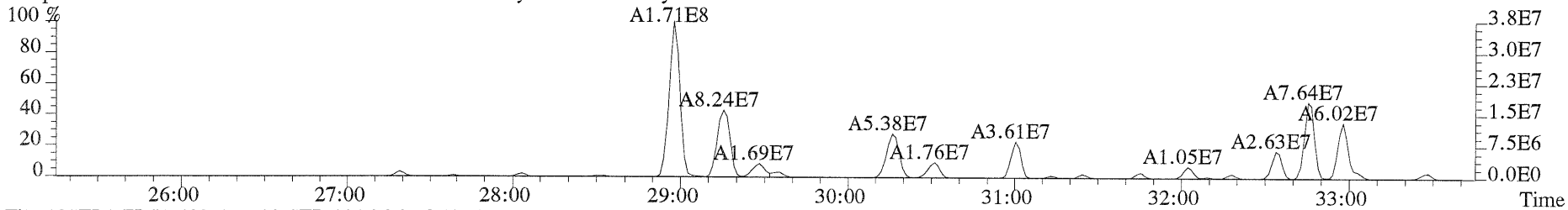
File:28SEP16Y #1-403 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



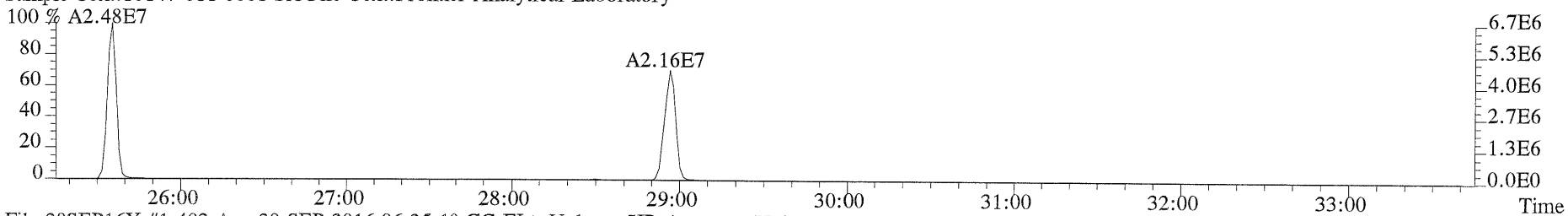
File:28SEP16Y #1-403 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



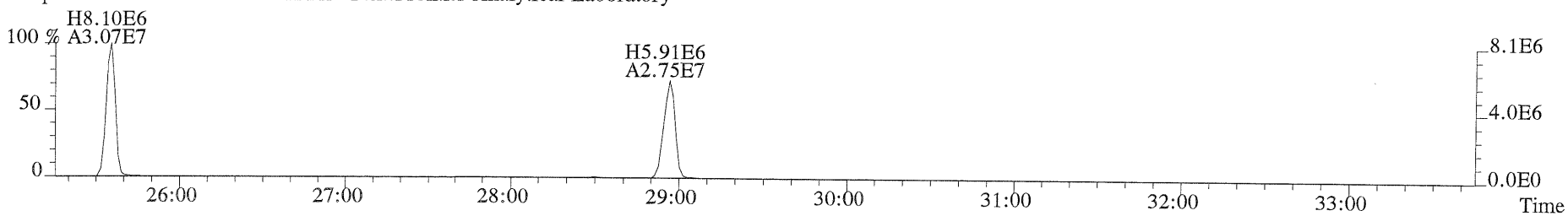
File:28SEP16Y #1-403 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



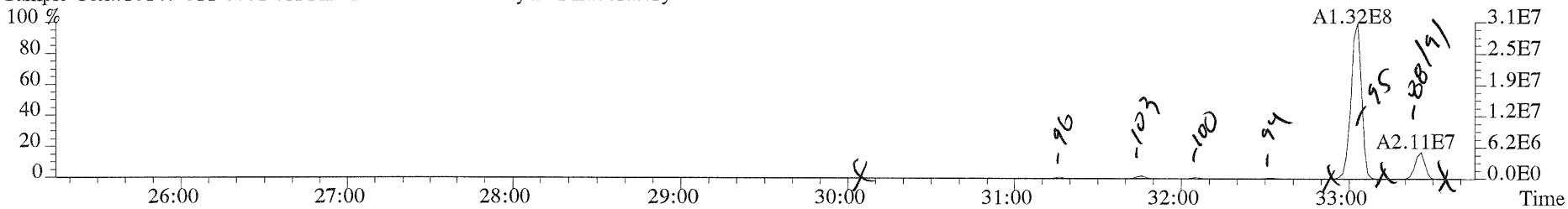
File:28SEP16Y #1-403 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-403 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-403 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-403 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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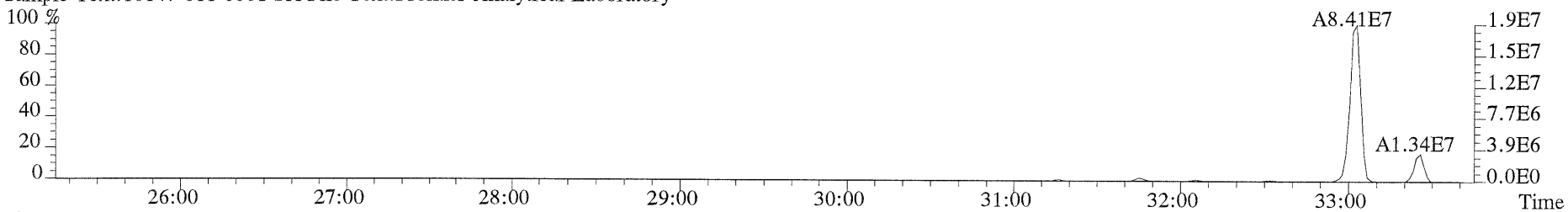
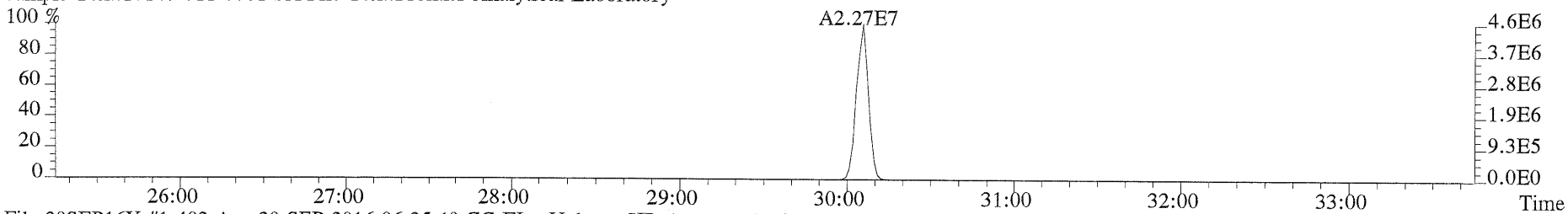
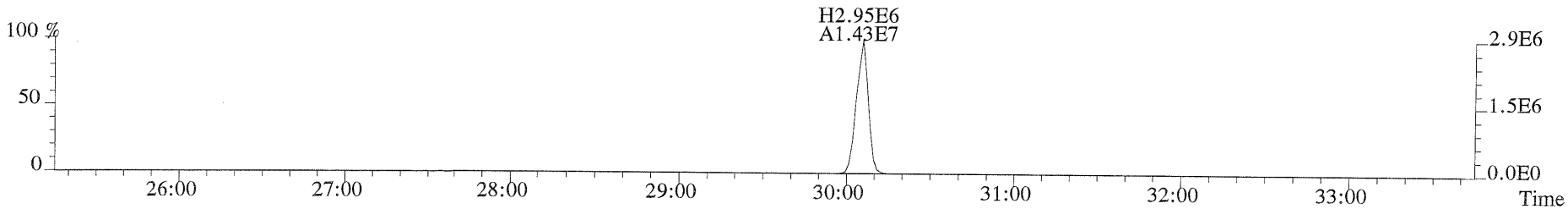


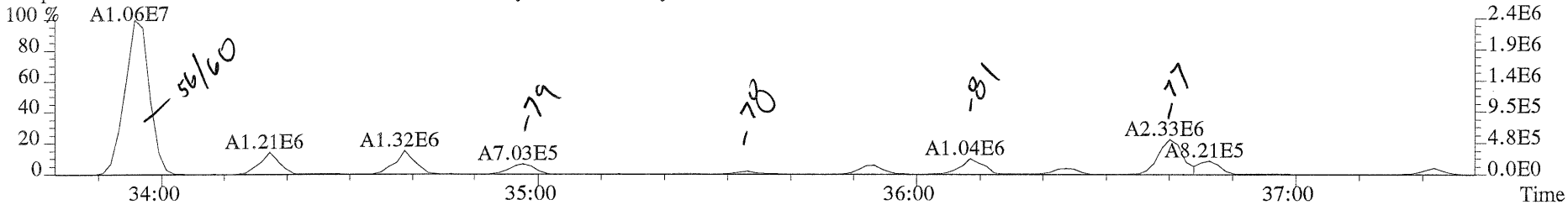
File:28SEP16Y #1-403 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



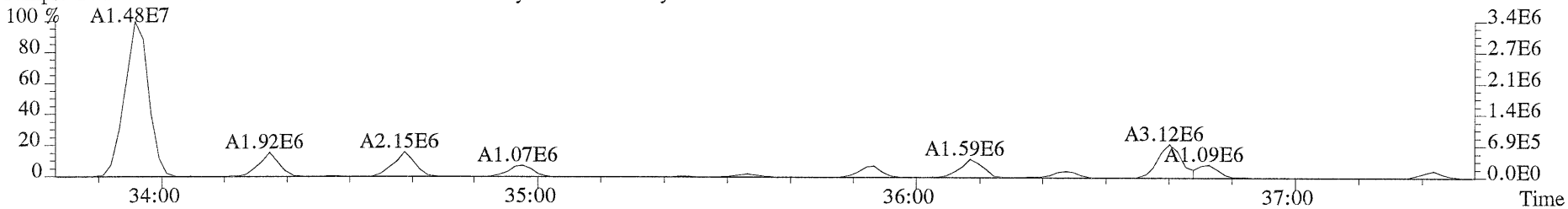
File:28SEP16Y #1-403 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:17 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



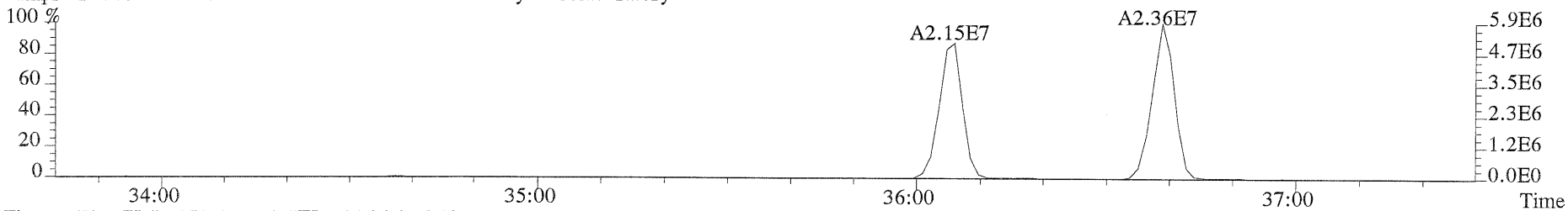
File:28SEP16Y #1-179 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:17 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



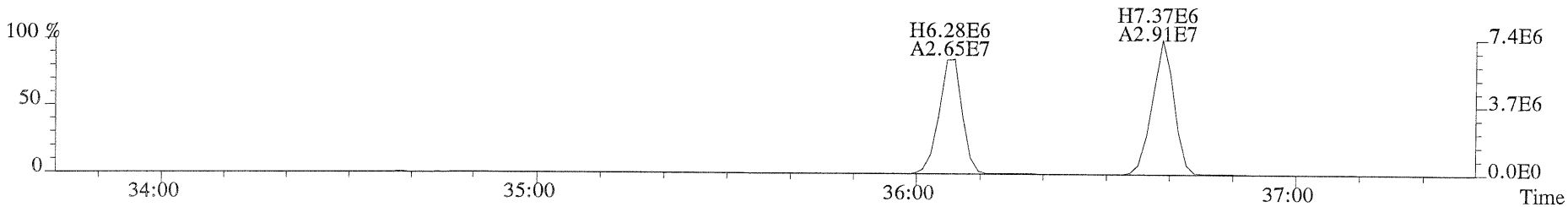
File:28SEP16Y #1-179 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:17 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



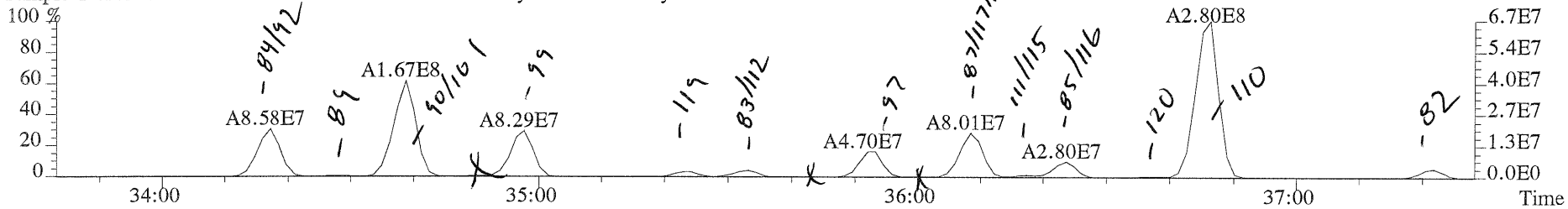
File:28SEP16Y #1-179 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:17 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-179 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:17 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-179 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:17 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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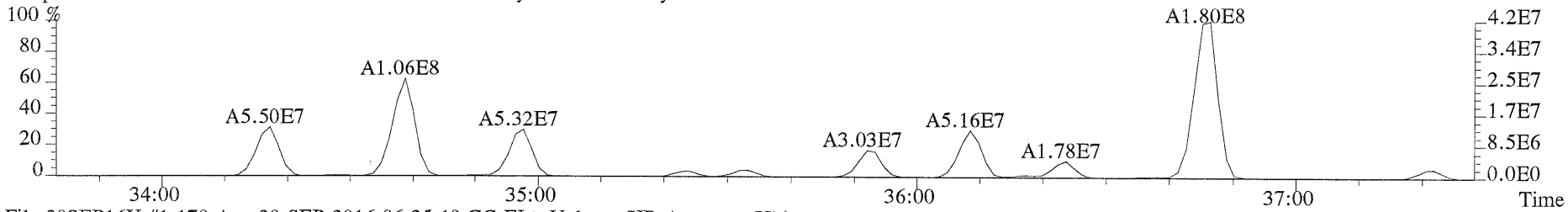
327.8775 S:17 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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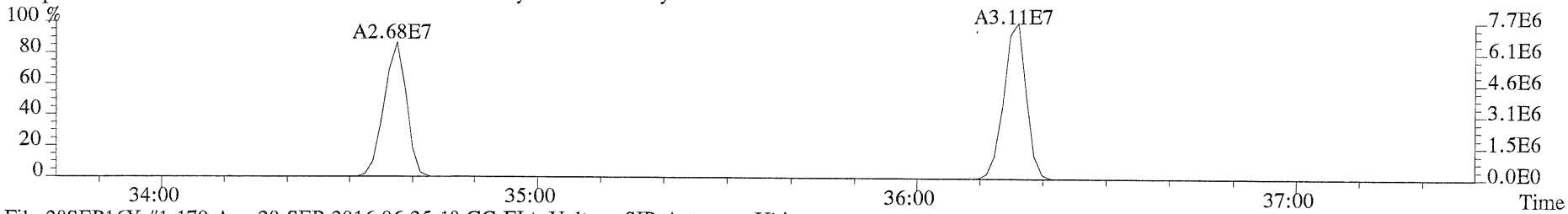
337.9207 S:17 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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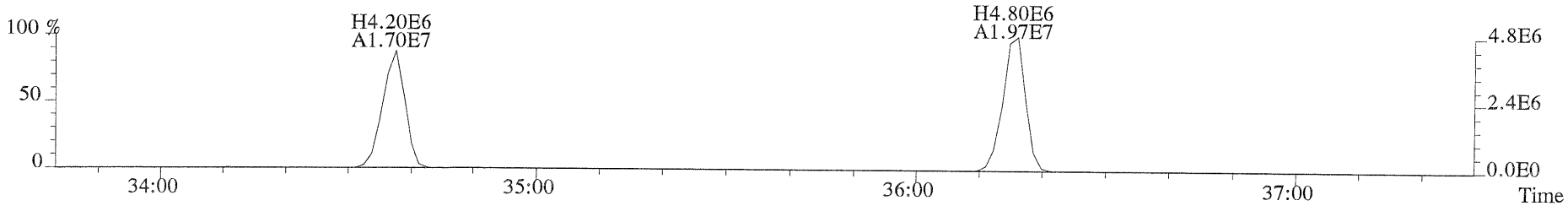
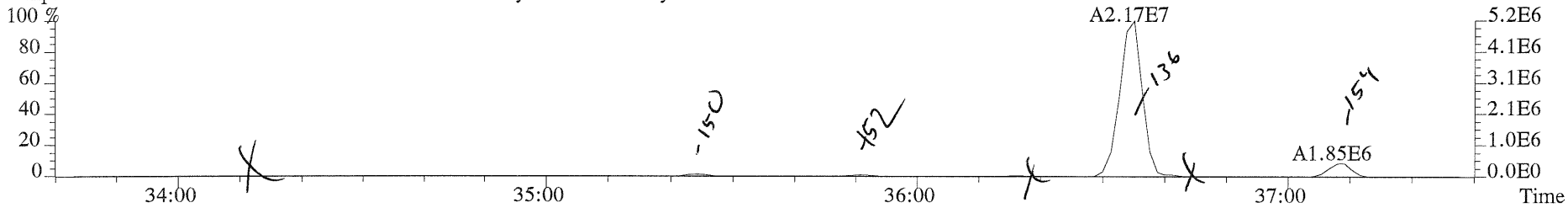
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-179 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:17 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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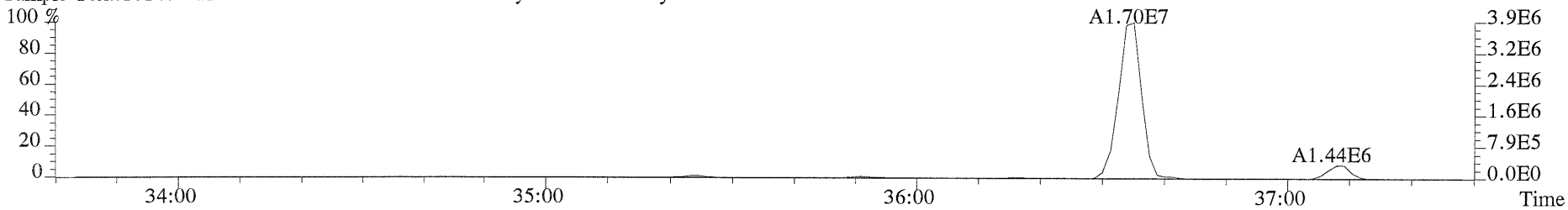
361.8385 S:17 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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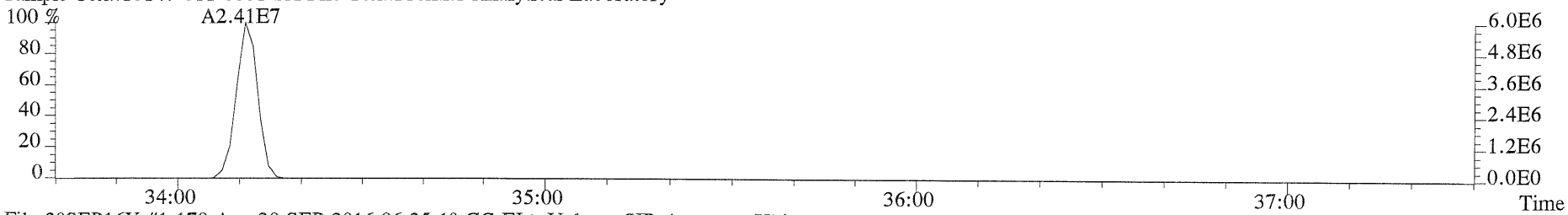
371.8817 S:17 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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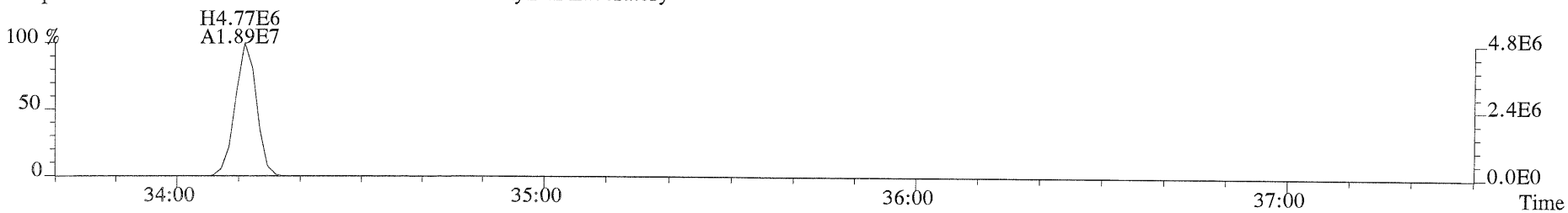
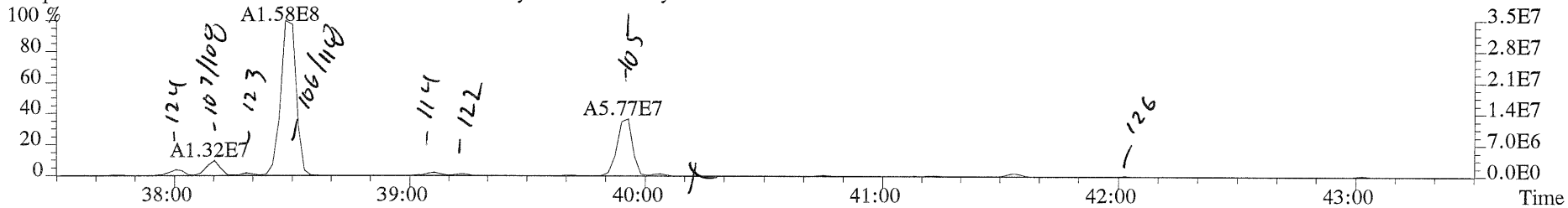
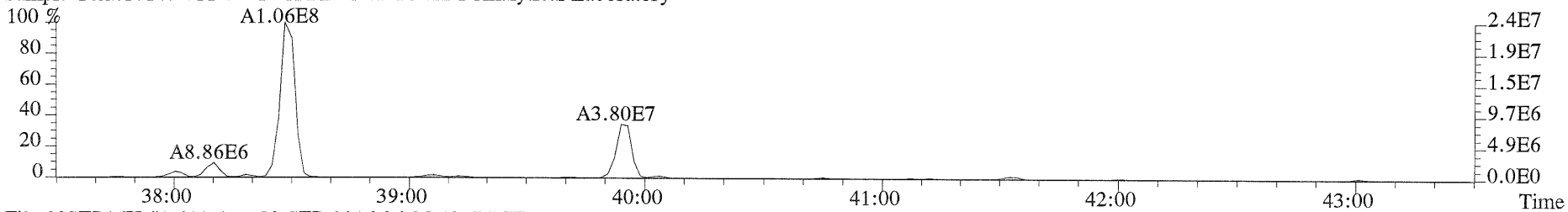
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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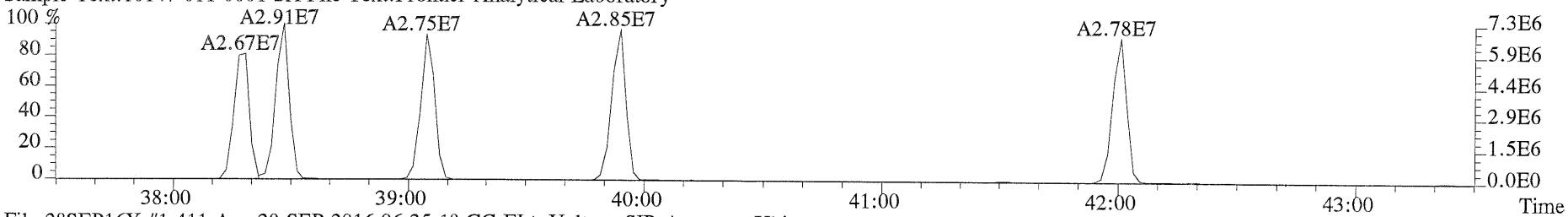

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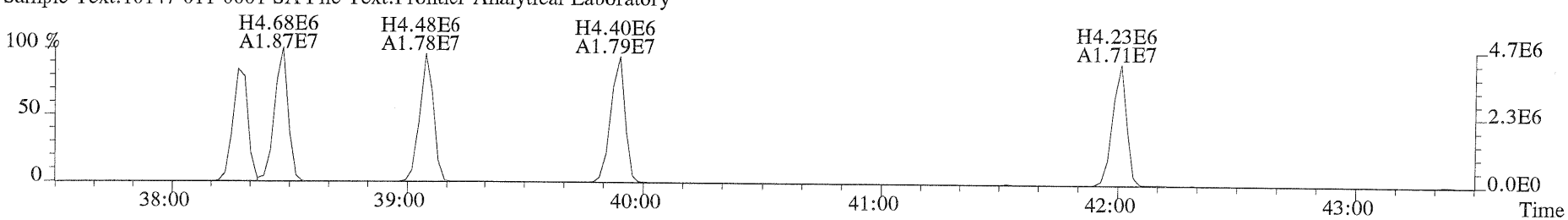
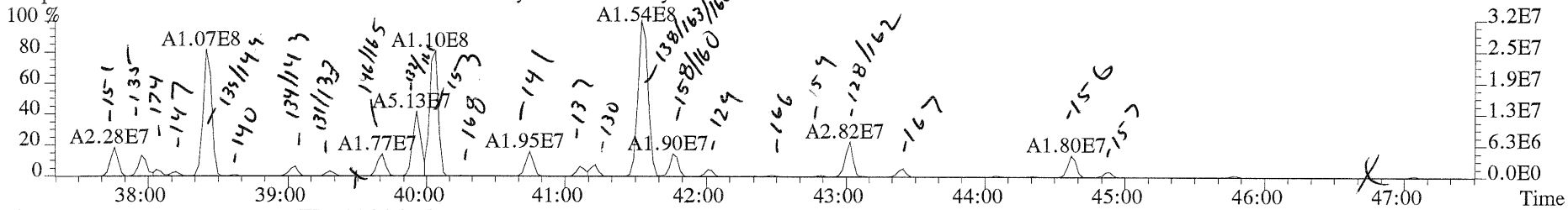
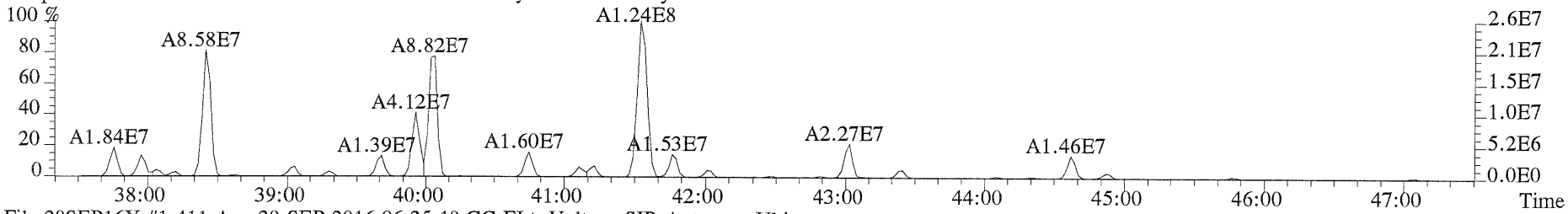
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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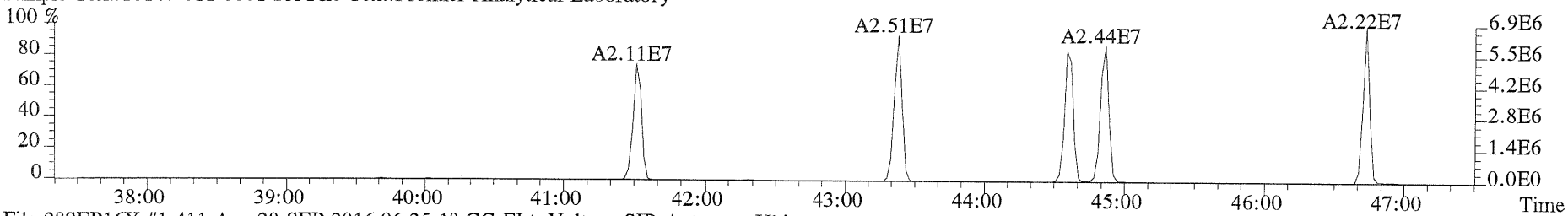
371.8817 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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373.8788 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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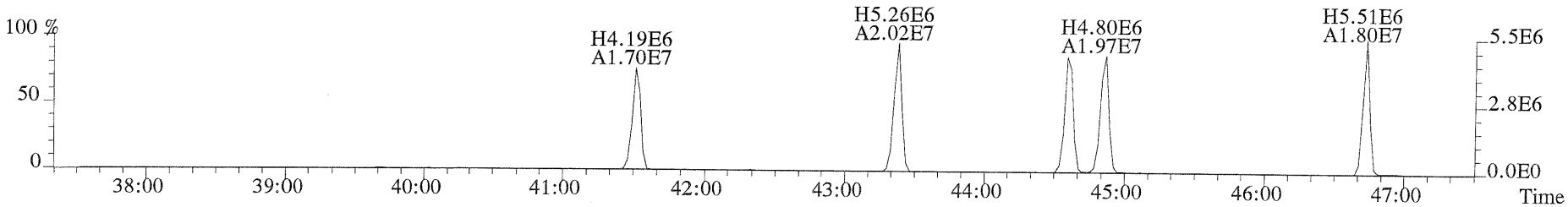

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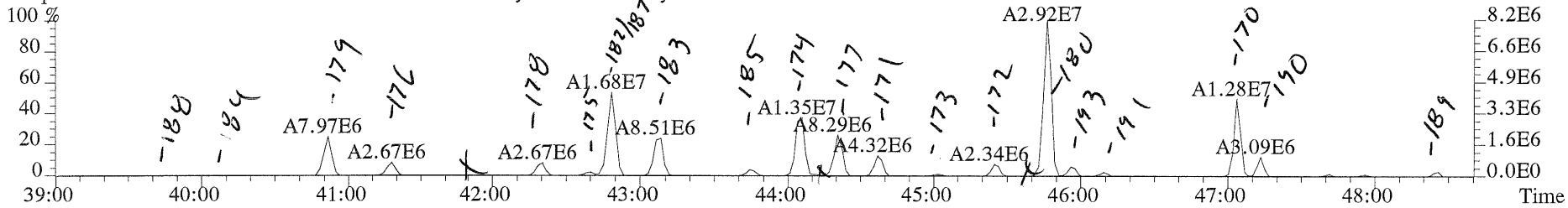
393.8025 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
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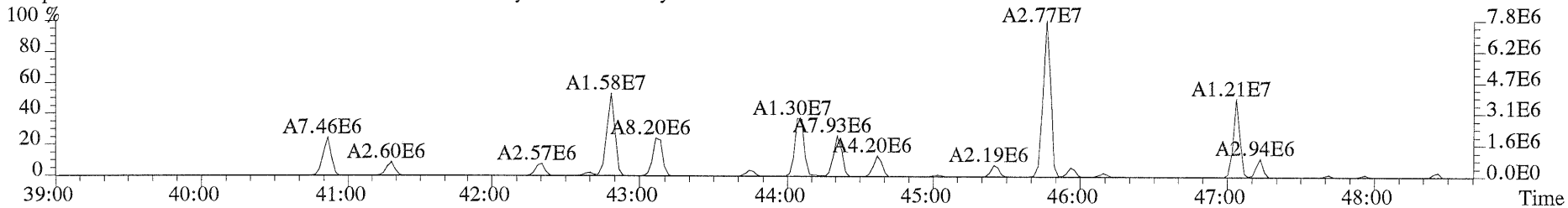
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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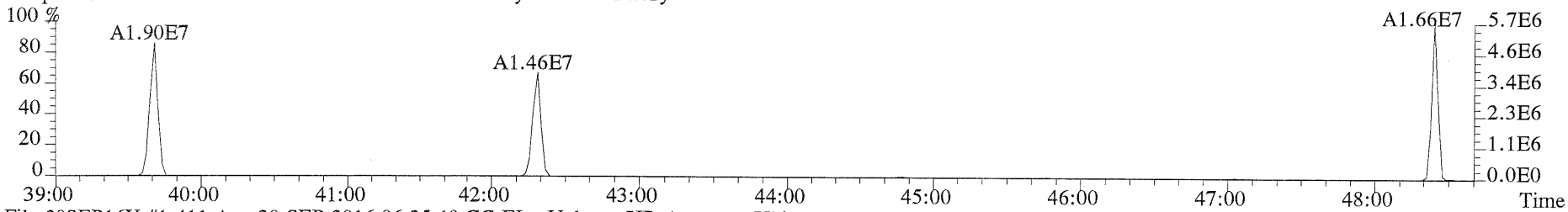
405.8428 S:17 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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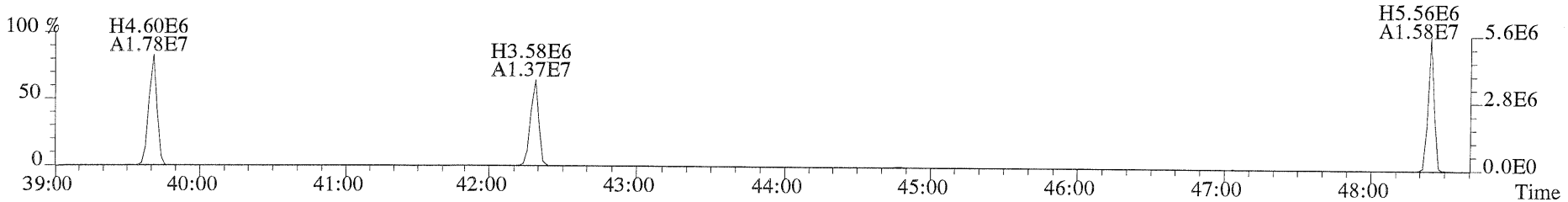
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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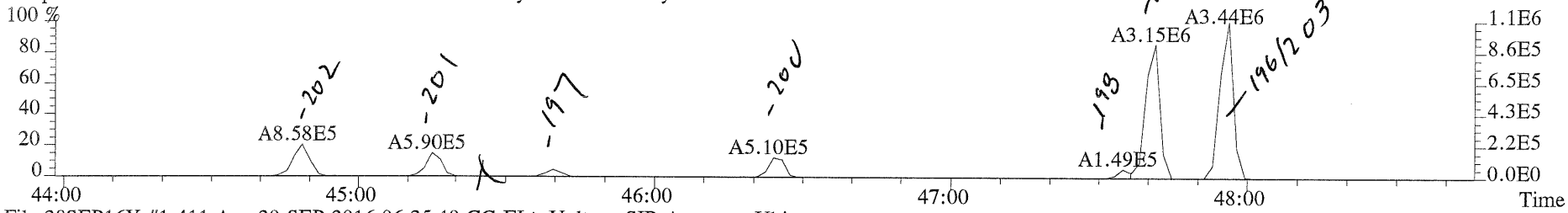
427.7635 S:17 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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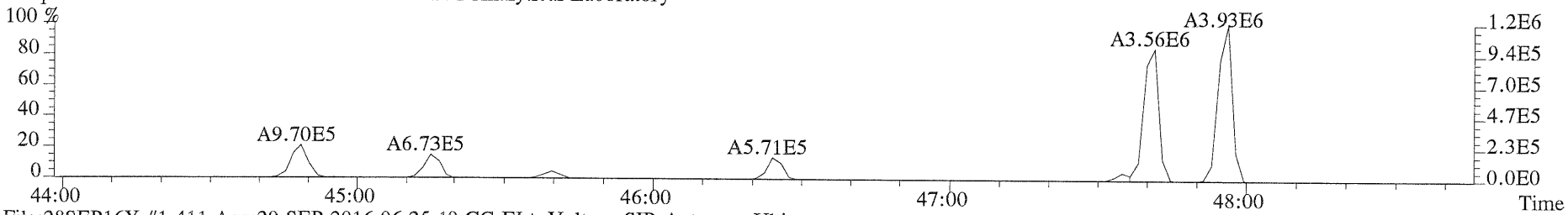
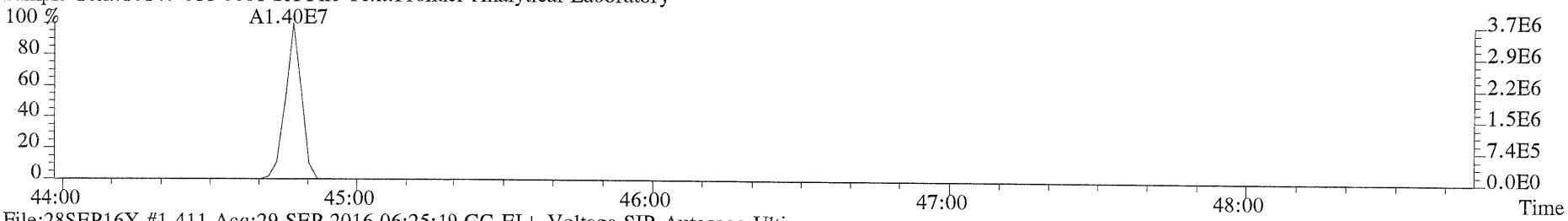
429.7606 S:17 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:17 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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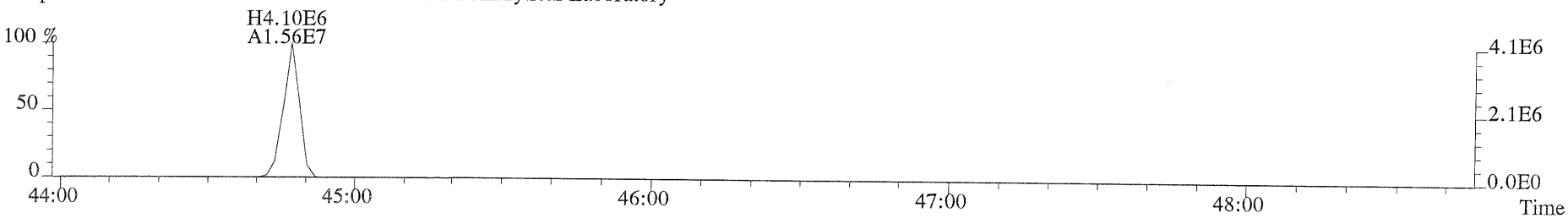
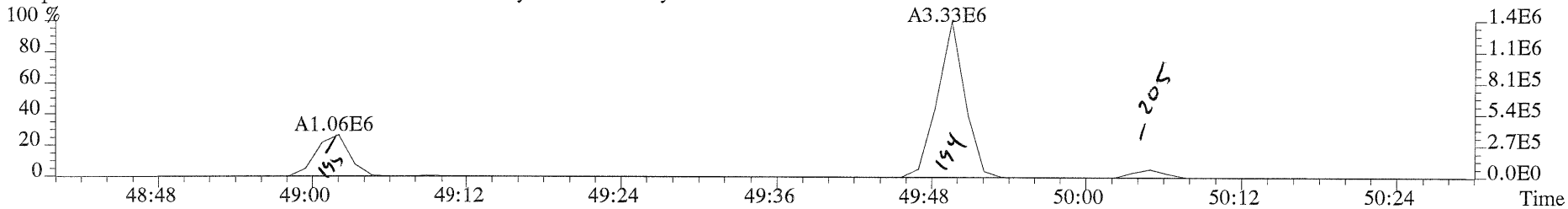
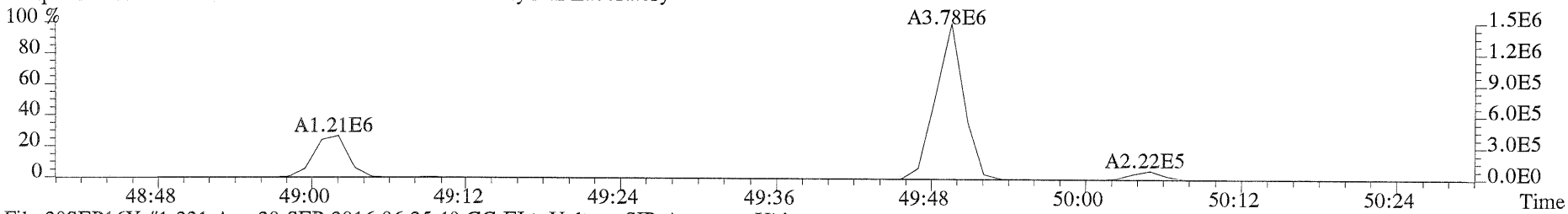
441.8008 S:17 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:17 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:17 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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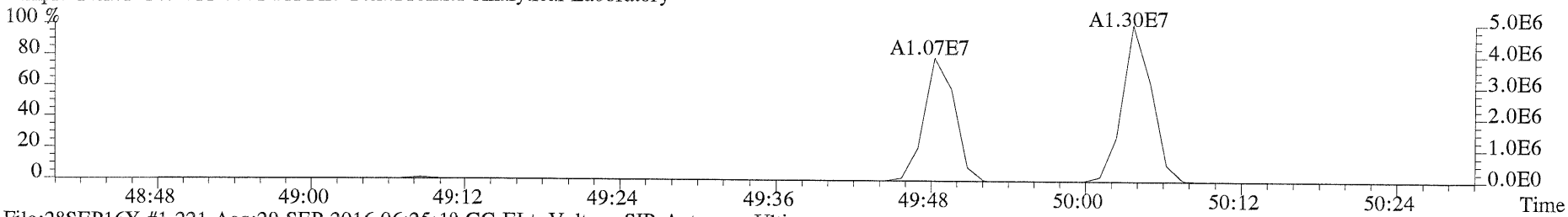
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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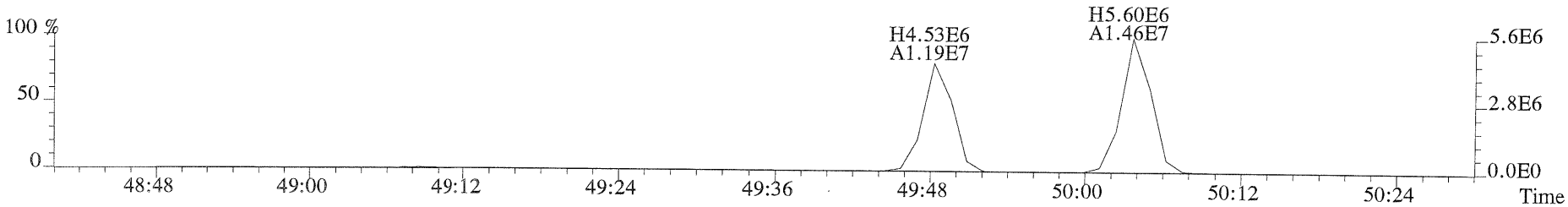
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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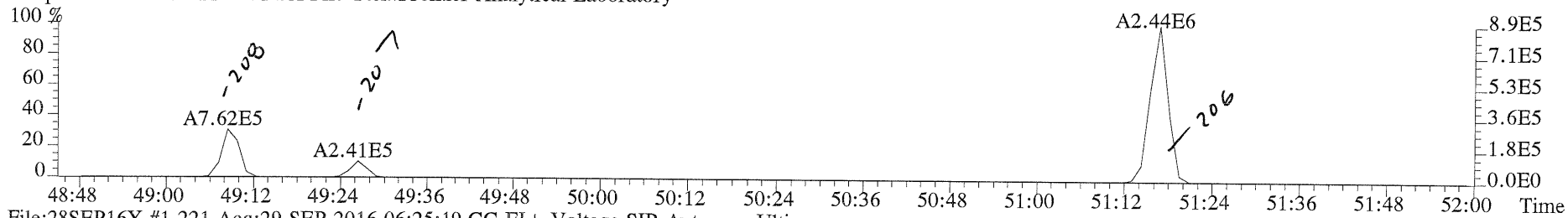
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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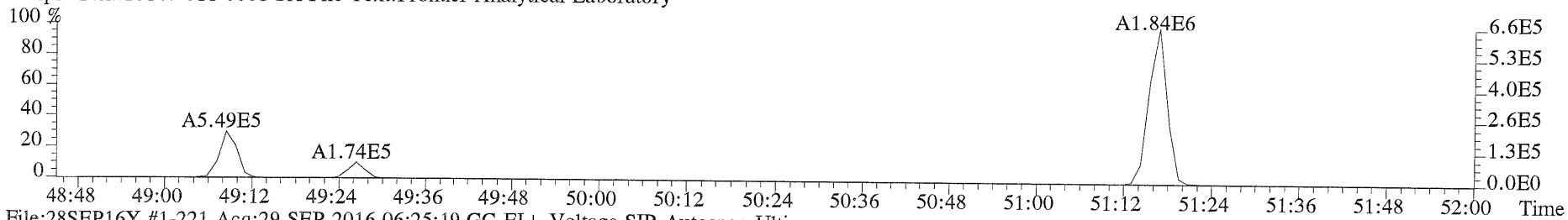
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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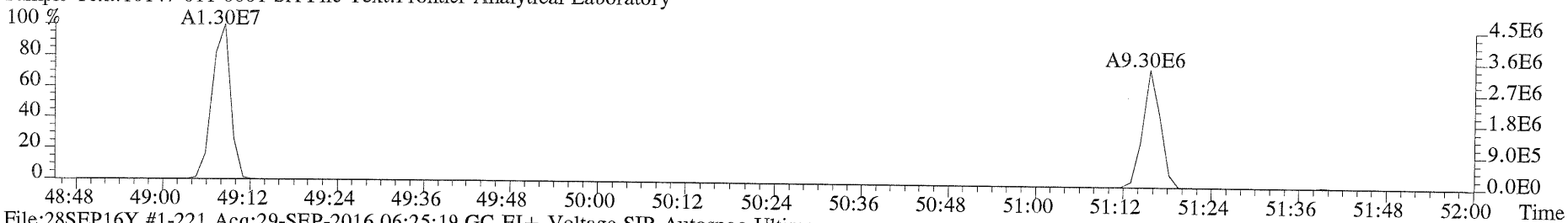
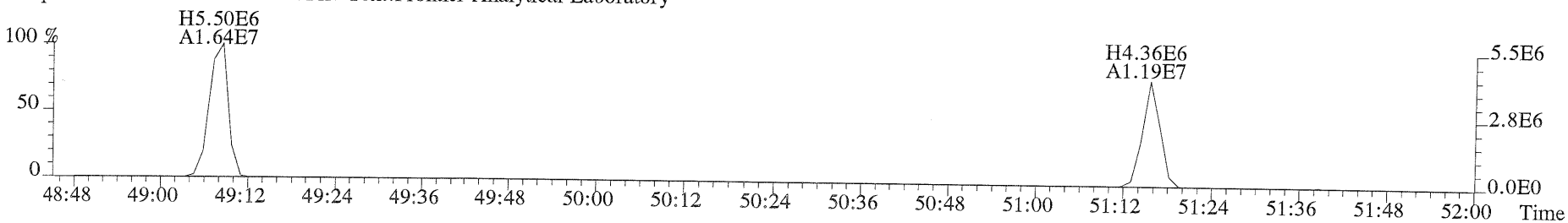
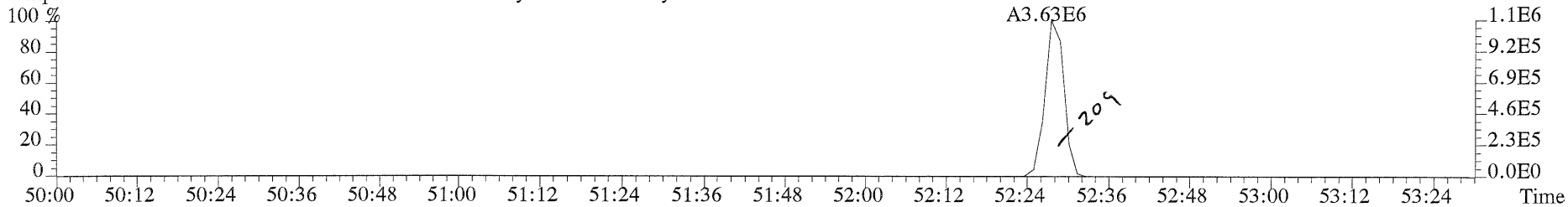
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:17 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:17 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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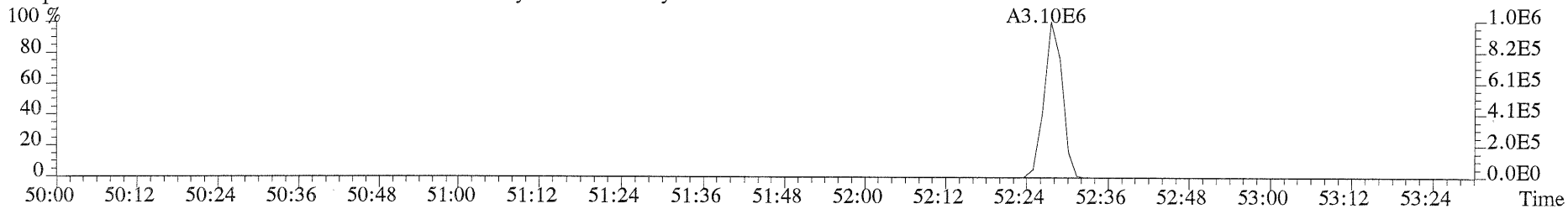
499.6797 S:17 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



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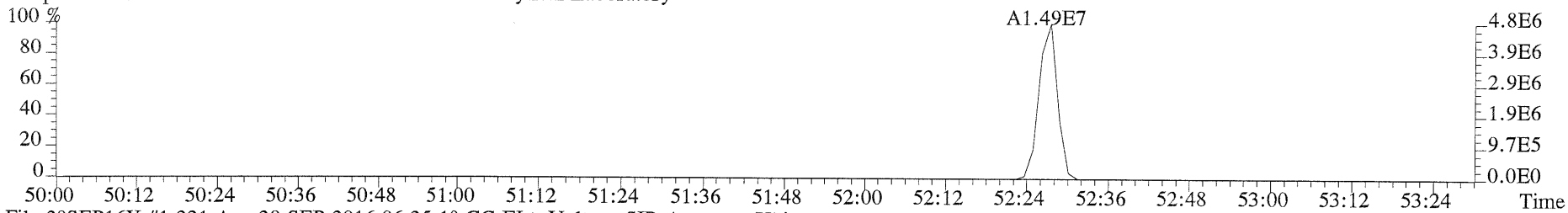
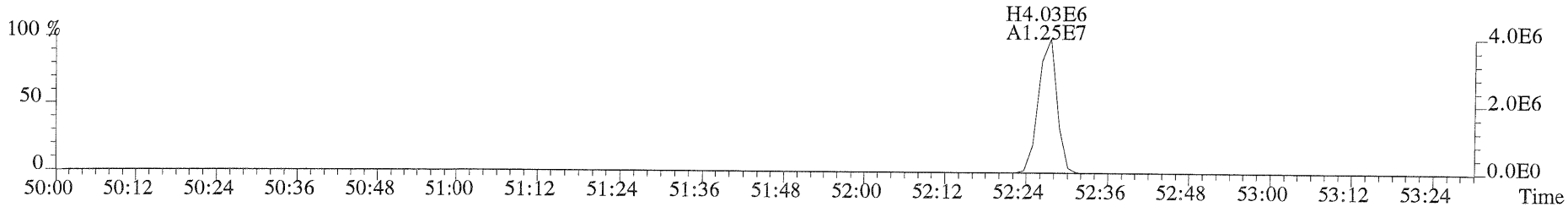
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 06:25:19 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:17 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-011-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10147-012-0001-SA Filename: 28SEP16Y Sam:18 Acquired: 29-SEP-16 07:21:46 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-IN-ENR+AC-CB-CORE ConCal: ST092816Y2 EndCal: ST092816Y3
Results: 10147 GC Column: DB1 Amount: 5.020 ✓

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.41e+07	3.14 y	14:30	1.00	420		-	-	*	
13C-PCB-1	6.71e+07	3.18 y	14:29	1.29	1490					74.6
PCB-2	1.22e+06	2.98 y	16:43	0.91	40.3		-	-	*	
PCB-3	6.19e+06	3.09 y	16:56	0.96	196		-	-	*	
13C-PCB-3	6.53e+07	3.20 y	16:55	1.26	1480					74.4
PCB-4	4.32e+06	1.45 y	18:11	0.95	226		-	-	*	
PCB-10	3.97e+05	1.46 y	18:15	1.14	12.8		-	-	*	
13C-PCB-4	4.02e+07	1.56 y	18:10	0.64	1790					89.7
PCB-9	1.82e+06	1.49 y	19:52	1.21	55.4		-	-	*	
PCB-7	1.96e+06	1.55 y	19:55	1.16	62.3		-	-	*	
PCB-6	7.91e+06	1.53 y	20:29	1.14	256		-	-	*	
PCB-8	2.24e+07	1.53 y	20:51	1.15	722		-	-	*	
PCB-5	*	* n	NotFnd	1.17	*		1610	1850	0.898	
PCB-14	*	* n	NotFnd	1.14	*		1610	1850	0.921	
PCB-11	7.14e+05	1.62 y	23:02	1.10	23.9		-	-	*	
PCB-13	2.74e+06	1.50 y	23:22	1.08	93.8		-	-	*	
PCB-12	6.83e+05	1.43 y	23:25	1.17	21.6		-	-	*	
PCB-15	1.20e+07	1.47 y	23:41	1.08	328		-	-	*	
13C-PCB-15	6.76e+07	1.60 y	23:40	1.00	1940					97.2
PCB-19	1.34e+06	1.02 y	22:04	1.04	72.5		-	-	*	
PCB-30	*	* n	NotFnd	1.45	*		1650	1810	1.19	
PCB-18	1.88e+07	1.04 y	23:37	1.01	1040		-	-	*	
PCB-17	8.73e+06	1.04 y	23:47	1.08	456		-	-	*	
PCB-27	1.04e+06	1.06 y	24:18	1.55	37.6		-	-	*	
PCB-24	1.04e+06	1.06 y	24:18	1.32	44.2		-	-	*	
PCB-16	6.78e+06	1.05 y	24:48	1.15	332		-	-	*	
PCB-32	6.80e+06	1.05 y	24:49	1.34	286		-	-	*	
13C-PCB-19	3.54e+07	1.07 y	22:03	0.66	1530					76.6
13C-PCB-9	6.98e+07	1.58 y	19:50	-	8.38					
PCB-34	3.72e+05	1.04 y	25:33	0.81	19.4		-	-	*	
PCB-23	5.73e+04	1.10 y	25:39	0.90	2.70	J	-	-	*	
PCB-29	2.13e+05	1.07 y	25:53	0.90	10.1		-	-	*	
PCB-26	2.41e+07	0.98 y	26:05	0.97	1060		-	-	*	
PCB-25	8.67e+06	0.97 y	26:15	1.21	305		-	-	*	
PCB-31	3.22e+07	0.99 y	26:34	0.97	1410		-	-	*	
PCB-28	3.37e+07	1.01 y	26:40	1.08	1330		-	-	*	
PCB-20	1.95e+07	1.00 y	27:15	1.02	814		-	-	*	Co-elute PCB 21/33
PCB-21	1.95e+07	1.00 y	27:15	1.02	814		-	-	*	Co-elute PCB 20/33
PCB-33	1.95e+07	1.00 y	27:15	1.02	814		-	-	*	Co-elute PCB 20/21
PCB-22	1.11e+07	0.99 y	27:41	1.08	437		-	-	*	
PCB-36	4.47e+04	1.00 y	28:16	0.96	1.98	J	-	-	*	
PCB-39	1.60e+05	1.17 y	28:41	1.00	6.82		-	-	*	
PCB-38	1.96e+05	1.00 y	29:28	0.91	9.12		-	-	*	
PCB-35	6.63e+05	1.10 y	29:58	1.01	27.9		-	-	*	
PCB-37	9.37e+06	1.01 y	30:24	1.08	370		-	-	*	
13C-PCB-37	4.68e+07	1.07 y	30:22	1.03	2290					115

PCB-54	8.89e+04	0.77	y	25:35	1.04	3.89	J	-	-	*	
PCB-50	1.40e+05	0.81	y	26:42	0.79	8.08		-	-	*	
PCB-53	4.64e+06	0.79	y	27:18	0.80	266		-	-	*	
PCB-51	1.47e+06	0.79	y	27:38	0.84	80.3		-	-	*	
PCB-45	3.87e+06	0.77	y	28:03	0.72	246		-	-	*	
PCB-46	1.58e+06	0.80	y	28:30	0.69	104		-	-	*	
PCB-52	9.10e+07	0.78	y	28:56	0.99	4180		-	-	*	Co-elute PCB 69
PCB-69	9.10e+07	0.78	y	28:56	0.99	4180		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.07	*		1020	1050	0.854	
PCB-43	4.71e+07	0.78	y	29:15	0.79	2730		-	-	*	Co-elute PCB 49
PCB-49	4.71e+07	0.78	y	29:15	0.79	2730		-	-	*	Co-elute PCB 43
PCB-47	1.17e+07	0.76	y	29:27	1.07	501		-	-	*	
PCB-48	7.44e+06	0.80	y	29:34	0.94	361		-	-	*	Co-elute PCB 75
PCB-75	7.44e+06	0.80	y	29:34	0.94	361		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*		1020	1050	0.921	
PCB-62	*	*	n	NotFnd	0.99	*		1020	1050	0.918	
PCB-44	3.83e+07	0.78	y	30:14	0.73	2380		-	-	*	
PCB-42	1.32e+07	0.78	y	30:26	0.98	612		-	-	*	Co-elute PCB 59
PCB-59	1.32e+07	0.78	y	30:26	0.98	612		-	-	*	Co-elute PCB 42
PCB-72	3.53e+07	0.78	y	30:58	1.09	1480		-	-	*	Co-elute PCB 41/71/64
PCB-41	3.53e+07	0.78	y	30:58	1.09	1480		-	-	*	Co-elute PCB 72/71/64
PCB-71	3.53e+07	0.78	y	30:58	1.09	1480		-	-	*	Co-elute PCB 72/41/64
PCB-64	3.53e+07	0.78	y	30:58	1.09	1480		-	-	*	Co-elute PCB 72/41/71
PCB-68	8.55e+05	0.80	y	31:12	1.12	34.6		-	-	*	
PCB-40	4.08e+06	0.79	y	31:23	0.63	293		-	-	*	
PCB-57	1.44e+06	0.80	y	31:43	1.08	60.5		-	-	*	
PCB-67	4.21e+06	0.82	y	32:01	1.07	179		-	-	*	
PCB-58	4.18e+05	0.81	y	32:07	1.08	17.6		-	-	*	
PCB-63	2.72e+06	0.78	y	32:16	1.08	115		-	-	*	
PCB-74	2.51e+07	0.77	y	32:33	1.18	965		-	-	*	
PCB-61	7.05e+07	0.78	y	32:45	1.15	2790		-	-	*	Co-elute PCB 70
PCB-70	7.05e+07	0.78	y	32:45	1.15	2790		-	-	*	Co-elute PCB 61
PCB-76	5.49e+07	0.78	y	32:57	1.13	2200		-	-	*	Co-elute PCB 66
PCB-66	5.49e+07	0.78	y	32:57	1.13	2200		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.27	*		1020	1050	0.719	
PCB-55	2.53e+06	0.79	y	33:27	1.13	102		-	-	*	
13C-PCB-54	4.37e+07	0.81	y	25:34	1.09	2010					101
PCB-104	*	*	n	NotFnd	1.13	*		887	756	1.09	
PCB-96	6.22e+05	1.68	y	31:14	1.06	40.3		-	-	*	
PCB-103	1.14e+06	1.51	y	31:45	0.88	88.2		-	-	*	
PCB-100	4.17e+05	1.53	y	32:05	0.87	32.7		-	-	*	
PCB-94	3.82e+05	1.45	y	32:30	0.74	35.1		-	-	*	
PCB-98	*	*	n	NotFnd	1.06	*		887	756	1.17	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	1.06	*		887	756	1.17	Co-elute PCB 98
PCB-95	7.49e+07	1.57	y	33:02	0.63	8060		-	-	*	
PCB-93	*	*	n	NotFnd	0.63	*		887	756	1.97	
PCB-88	7.49e+07	1.57	y	33:02	0.83	6160		-	-	*	Co-elute PCB 91
PCB-91	7.49e+07	1.57	y	33:02	0.83	6160		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.99	*		887	756	1.25	
13C-PCB-104	2.92e+07	1.61	y	30:05	0.98	1500					75.2
13C-PCB-28	4.98e+07	1.07	y	26:39	1.01	2470					124
13C-PCB-52	3.96e+07	0.78	y	28:55	-	6.64					

PCB-56	2.04e+07	0.72	y	33:55	0.89	1110		-	-	*	Co-elute PCB 60
PCB-60	2.04e+07	0.72	y	33:55	0.89	1110		-	-	*	Co-elute PCB 56
PCB-79	9.42e+05	0.67	y	34:56	1.00	45.7		-	-	*	
PCB-78	2.89e+05	0.68	y	35:32	0.97	14.5		-	-	*	
PCB-81	1.50e+06	0.69	y	36:09	1.07	68.1		-	-	*	
13C-PCB-81	4.09e+07	0.81	y	36:05	0.96	2510					126
PCB-77	3.70e+06	0.75	y	36:39	1.01	178		-	-	*	
13C-PCB-77	4.10e+07	0.82	y	36:38	1.02	2370					119
PCB-155	*	*	n	NotFnd	1.05	*		801	888	0.931	
PCB-150	1.49e+05	1.30	y	35:23	0.96	9.47		-	-	*	
PCB-152	1.40e+05	1.16	y	35:50	0.94	9.08		-	-	*	
PCB-145	6.05e+04	1.36	y	36:15	0.94	3.95	J	-	-	*	
PCB-136	1.38e+07	1.27	y	36:33	0.94	894		-	-	*	
PCB-148	*	*	n	NotFnd	0.68	*		801	888	1.45	
PCB-154	1.11e+06	1.29	y	37:07	0.80	84.5		-	-	*	
13C-PCB-155	3.26e+07	1.29	y	34:10	1.15	1680					84.1
13C-PCB-111	3.83e+07	1.54	y	36:15	1.14	1980					99.6
13C-PCB-101	3.37e+07	1.60	y	34:36	-	5.91					
PCB-84	4.71e+07	1.57	y	34:16	0.87	2980		-	-	*	Co-elute PCB 92
PCB-92	4.71e+07	1.57	y	34:16	0.87	2980		-	-	*	Co-elute PCB 84
PCB-89	8.65e+05	1.65	y	34:26	0.86	54.9		-	-	*	
PCB-90	1.11e+08	1.57	y	34:38	0.98	6230		-	-	*	Co-elute PCB 101
PCB-101	1.11e+08	1.57	y	34:38	0.98	6230		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.12	*		801	811	0.823	
PCB-99	5.10e+07	1.56	y	34:56	1.06	2630		-	-	*	
PCB-119	4.21e+06	1.51	y	35:22	1.26	184		-	-	*	
PCB-83	6.06e+06	1.54	y	35:32	1.00	331		-	-	*	Co-elute PCB 112
PCB-112	6.06e+06	1.54	y	35:32	1.00	331		-	-	*	Co-elute PCB 83
PCB-109	3.35e+04	1.33	y	35:41	1.13	1.63	J	-	-	*	
PCB-97	3.05e+07	1.56	y	35:51	1.06	1580		-	-	*	
PCB-86	*	*	n	NotFnd	0.88	*		801	811	1.04	
PCB-125	4.75e+07	1.55	y	36:07	1.13	2300		-	-	*	Co-elute PCB 87/117
PCB-87	4.75e+07	1.55	y	36:07	1.13	2300		-	-	*	Co-elute PCB 125/117
PCB-117	4.75e+07	1.55	y	36:07	1.13	2300		-	-	*	Co-elute PCB 125/87
PCB-111	1.90e+06	1.53	y	36:16	1.45	72.0		-	-	*	Co-elute PCB 115
PCB-115	1.90e+06	1.53	y	36:16	1.45	72.0		-	-	*	Co-elute PCB 111
PCB-85	1.66e+07	1.56	y	36:22	1.02	894		-	-	*	Co-elute PCB 116
PCB-116	1.66e+07	1.56	y	36:22	1.02	894		-	-	*	Co-elute PCB 85
PCB-120	6.19e+05	1.58	y	36:36	1.34	25.4		-	-	*	
PCB-110	1.58e+08	1.57	y	36:44	1.30	6690		-	-	*	
PCB-82	9.60e+06	1.57	y	37:21	0.75	700		-	-	*	
PCB-124	4.02e+06	1.46	y	37:59	0.99	222		-	-	*	
PCB-108	8.84e+06	1.51	y	38:09	0.95	510		-	-	*	Co-elute PCB 107
PCB-107	8.84e+06	1.51	y	38:09	0.95	510		-	-	*	Co-elute PCB 108
PCB-123	1.53e+06	1.43	y	38:17	1.08	78.5		-	-	*	
13C-PCB-123	3.59e+07	1.56	y	38:17	0.97	2490					125
PCB-118	1.06e+08	1.52	y	38:28	0.91	6330		-	-	*	Co-elute PCB 106
PCB-106	1.06e+08	1.52	y	38:28	0.91	6330		-	-	*	Co-elute PCB 118
13C-PCB-118	3.67e+07	1.57	y	38:27	1.06	2340					117
PCB-114	2.28e+06	1.46	y	39:05	0.97	129		-	-	*	
13C-PCB-114	3.63e+07	1.59	y	39:03	1.04	2350					118
PCB-122	1.36e+06	1.48	y	39:11	0.95	78.9		-	-	*	
PCB-105	4.00e+07	1.53	y	39:54	0.94	2320		-	-	*	
13C-PCB-105	3.65e+07	1.59	y	39:52	1.03	2380					119

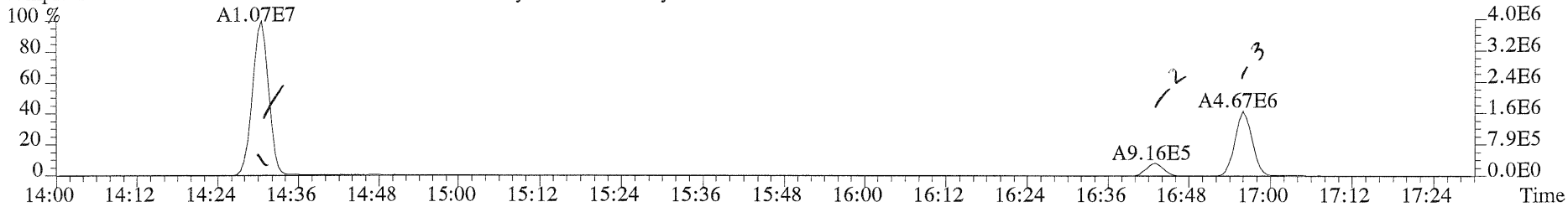
PCB-127	*	*	n	NotFnd	0.86	*	822	988	1.21		
PCB-126	6.15e+05	1.55	y	42:01	0.98	35.3	-	-	*		
13C-PCB-126	3.54e+07	1.59	y	41:59	0.91	2610				131	
PCB-151	1.56e+07	1.25	y	37:44	0.82	1110	-	-	*		
PCB-135	1.16e+07	1.26	y	37:55	0.88	769	-	-	*		
PCB-144	3.75e+06	1.23	y	38:02	0.82	268	-	-	*		
PCB-147	2.23e+06	1.26	y	38:10	0.86	151	-	-	*		
PCB-139	7.14e+07	1.25	y	38:23	0.90	4620	-	-	*	Co-elute PCB 149	
PCB-149	7.14e+07	1.25	y	38:23	0.90	4620	-	-	*	Co-elute PCB 139	
PCB-140	6.16e+05	1.29	y	38:35	0.83	43.1	-	-	*		
PCB-143	5.64e+06	1.23	y	39:01	0.82	401	-	-	*	Co-elute PCB 134	
PCB-134	5.64e+06	1.23	y	39:01	0.82	401	-	-	*	Co-elute PCB 143	
PCB-131	2.73e+06	1.27	y	39:16	0.83	192	-	-	*	Co-elute PCB 133	
PCB-133	2.73e+06	1.27	y	39:16	0.83	192	-	-	*	Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.71	*	954	944	1.52		
PCB-165	1.30e+07	1.23	y	39:39	0.97	784	-	-	*	Co-elute PCB 146	
PCB-146	1.30e+07	1.23	y	39:39	0.97	784	-	-	*	Co-elute PCB 165	
PCB-161	3.35e+07	1.22	y	39:54	0.92	2120	-	-	*	Co-elute PCB 132	
PCB-132	3.35e+07	1.22	y	39:54	0.92	2120	-	-	*	Co-elute PCB 161	
PCB-153	8.41e+07	1.25	y	40:02	0.95	5180	-	-	*		
PCB-168	1.56e+05	1.24	y	40:14	1.05	8.62	-	-	*		
PCB-141	1.47e+07	1.24	y	40:43	0.81	1050	-	-	*		
PCB-137	5.42e+06	1.21	y	41:05	0.76	418	-	-	*		
PCB-130	6.32e+06	1.24	y	41:11	0.74	496	-	-	*		
PCB-138	1.11e+08	1.25	y	41:31	1.10	5920	-	-	*	Co-elute PCB 163/164	
PCB-163	1.11e+08	1.25	y	41:31	1.10	5920	-	-	*	Co-elute PCB 138/164	
PCB-164	1.11e+08	1.25	y	41:31	1.10	5920	-	-	*	Co-elute PCB 138/163	
PCB-158	1.38e+07	1.23	y	41:44	1.06	759	-	-	*	Co-elute PCB 160	
PCB-160	1.38e+07	1.23	y	41:44	1.06	759	-	-	*	Co-elute PCB 158	
PCB-129	4.29e+06	1.25	y	41:59	0.66	378	-	-	*		
PCB-166	5.84e+05	1.18	y	42:27	0.99	34.4	-	-	*		
PCB-159	7.78e+05	1.28	y	42:47	1.05	43.1	-	-	*		
PCB-128	1.90e+07	1.24	y	43:00	0.90	1230	-	-	*	Co-elute PCB 162	
PCB-162	1.90e+07	1.24	y	43:00	0.90	1230	-	-	*	Co-elute PCB 128	
PCB-167	5.11e+06	1.24	y	43:23	0.94	307	-	-	*		
13C-PCB-167	3.52e+07	1.24	y	43:21	1.12	2110				106	
PCB-156	1.34e+07	1.22	y	44:35	0.99	786	-	-	*		
13C-PCB-156	3.44e+07	1.25	y	44:35	1.07	2160				109	
PCB-157	3.13e+06	1.21	y	44:52	0.94	194	-	-	*		
13C-PCB-157	3.42e+07	1.23	y	44:50	1.10	2100				105	
PCB-169	*	*	n	NotFnd	0.95	*	954	944	0.962		
13C-PCB-169	3.29e+07	1.23	y	46:42	0.98	2260				113	

FAL ID: 10147-012-0001-SA Filename: 28SEP16Y Sam:18 Acquired: 29-SEP-16 07:21:46 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-IN-ENR+AC-CB-CORE ConCal: ST092816Y2 EndCal: ST092816Y3
Results: 10147 GC Column: DB1 Amount: 5.020

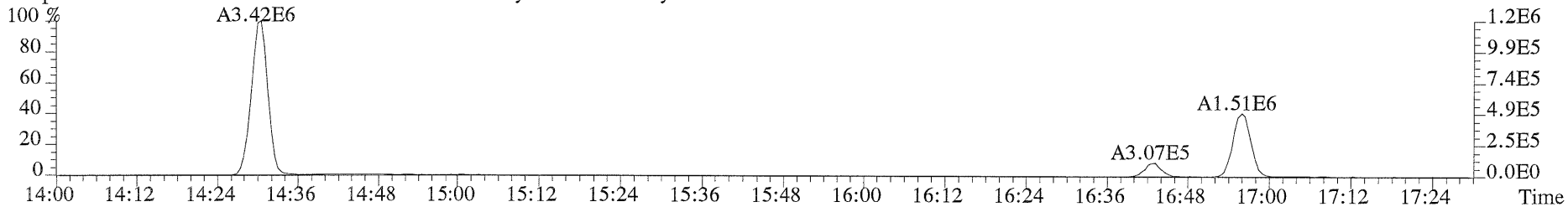
PCB-188	*	*	n	NotFnd	1.11	*	1110	988	1.25		
13C-PCB-188	2.91e+07	1.06	y	39:39	1.23	1590				79.6	
PCB-184	*	*	n	NotFnd	1.25	*	1110	988	1.07		
PCB-179	6.63e+06	1.08	y	40:50	1.23	396	-	-	*		
PCB-176	2.22e+06	1.09	y	41:16	1.19	137	-	-	*		
PCB-186	*	*	n	NotFnd	1.18	*	1110	988	1.14		
PCB-178	2.34e+06	1.08	y	42:19	0.85	201	-	-	*		
PCB-175	6.12e+05	1.11	y	42:39	0.89	50.2	-	-	*		
PCB-187	1.45e+07	1.05	y	42:47	0.95	1120	-	-	*	Co-elute PCB 182	
PCB-182	1.45e+07	1.05	y	42:47	0.95	1120	-	-	*	Co-elute PCB 187	
PCB-183	7.25e+06	1.06	y	43:07	0.95	558	-	-	*		
PCB-185	1.23e+06	1.07	y	43:43	0.86	105	-	-	*		
PCB-174	1.19e+07	1.06	y	44:04	0.89	979	-	-	*		
PCB-181	*	*	n	NotFnd	0.82	*	1110	988	1.63		
PCB-177	6.96e+06	1.05	y	44:19	0.74	688	-	-	*		
PCB-171	3.82e+06	1.04	y	44:35	0.82	339	-	-	*		
PCB-173	3.12e+05	1.02	y	45:00	0.73	31.4	-	-	*		
PCB-172	2.07e+06	1.04	y	45:25	0.75	203	-	-	*		
PCB-192	*	*	n	NotFnd	0.96	*	1110	988	1.39		
PCB-180	2.68e+07	1.06	y	45:45	0.98	2000	-	-	*		
PCB-193	1.58e+06	1.07	y	45:56	1.05	110	-	-	*		
PCB-191	6.85e+05	1.00	y	46:08	0.97	51.5	-	-	*		
PCB-170	1.17e+07	1.05	y	47:02	0.64	1330	-	-	*		
PCB-190	2.96e+06	1.06	y	47:12	0.88	245	-	-	*		
PCB-189	6.61e+05	1.04	y	48:24	1.10	47.4	-	-	*		
13C-PCB-189	2.54e+07	1.07	y	48:23	0.90	1900				95.1	
PCB-202	8.38e+05	0.87	y	44:47	0.95	77.8	-	-	*		
PCB-201	5.86e+05	0.89	y	45:13	0.92	55.8	-	-	*		
PCB-204	*	*	n	NotFnd	0.92	*	722	711	1.31		
PCB-197	1.76e+05	0.93	y	45:38	0.93	16.7	-	-	*		
PCB-200	5.33e+05	0.91	y	46:24	0.88	53.1	-	-	*		
PCB-198	1.65e+05	0.90	y	47:35	0.60	24.3	-	-	*		
PCB-199	3.16e+06	0.86	y	47:40	0.55	502	-	-	*		
PCB-203	3.76e+06	0.89	y	47:55	0.64	513	-	-	*	Co-elute PCB 196	
PCB-196	3.76e+06	0.89	y	47:55	0.64	513	-	-	*	Co-elute PCB 203	
13C-PCB-202	2.26e+07	0.90	y	44:45	1.00	1520				76.3	
13C-PCB-178	2.20e+07	1.08	y	42:17	0.84	1760				88.6	
13C-PCB-138	2.96e+07	1.24	y	41:29	-	6.04					
PCB-195	1.31e+06	0.88	y	49:01	0.75	144	-	-	*		
PCB-194	3.61e+06	0.87	y	49:48	0.76	390	-	-	*		
PCB-205	2.37e+05	0.91	y	50:04	1.00	19.4	-	-	*		
13C-PCB-205	2.42e+07	0.89	y	50:02	1.27	1940				97.3	
PCB-208	4.17e+05	1.30	y	49:08	0.93	36.4	-	-	*		
13C-PCB-208	2.45e+07	0.79	y	49:07	1.49	1670				83.8	
PCB-207	2.13e+05	1.27	y	49:25	1.00	20.3	-	-	*		
PCB-206	1.29e+06	1.29	y	51:16	0.99	150	-	-	*		
13C-PCB-206	1.72e+07	0.80	y	51:14	1.02	1720				86.4	
PCB-209	2.84e+06	1.15	y	52:26	1.06	243	-	-	*		
13C-PCB-209	2.20e+07	1.20	y	52:26	1.58	1420				71.4	
13C-PCB-194	1.96e+07	0.92	y	49:48	-	7.45					

Analyst: _____ Date: 10/7/16

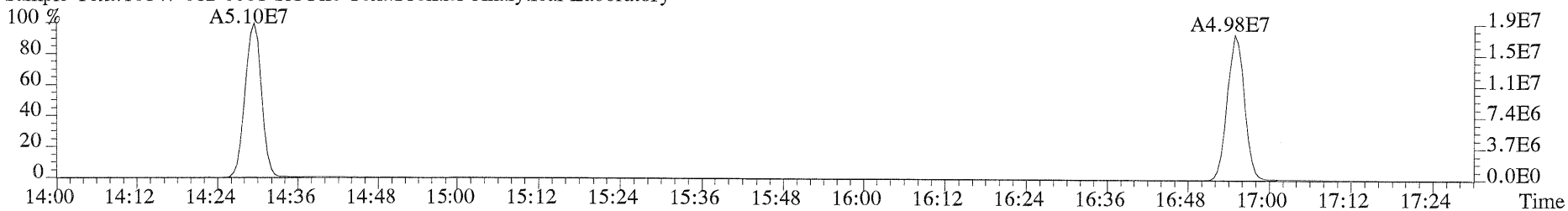
File:28SEP16Y #1-784 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:18 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



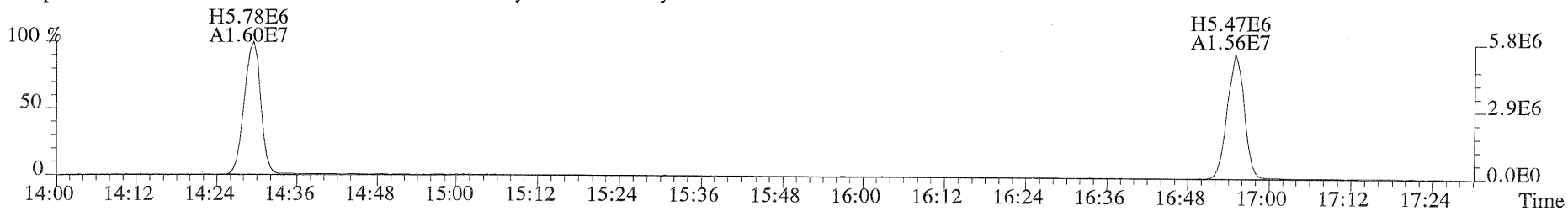
File:28SEP16Y #1-784 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:18 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



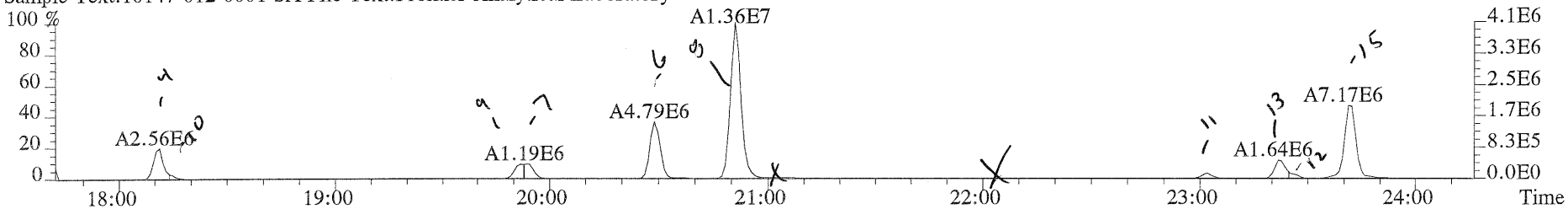
File:28SEP16Y #1-784 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:18 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



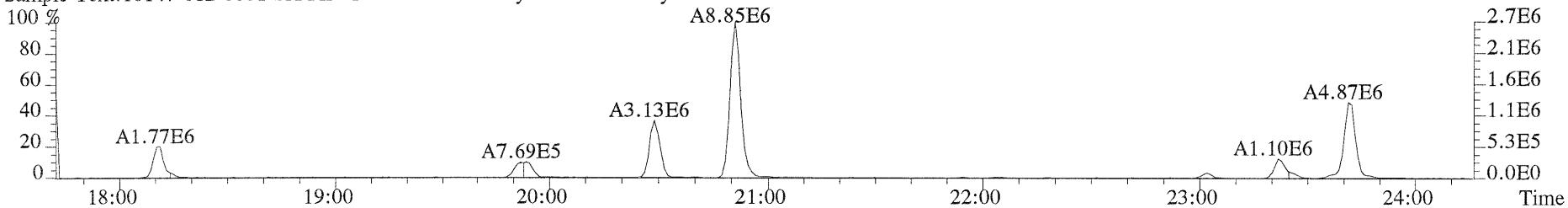
File:28SEP16Y #1-784 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:18 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



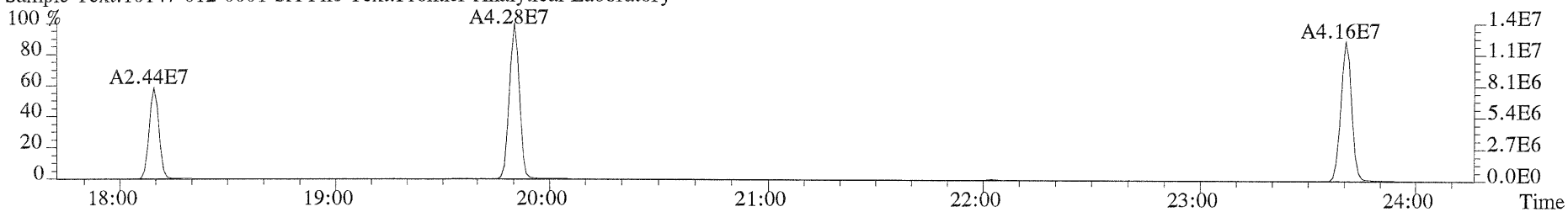
File:28SEP16Y #1-509 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



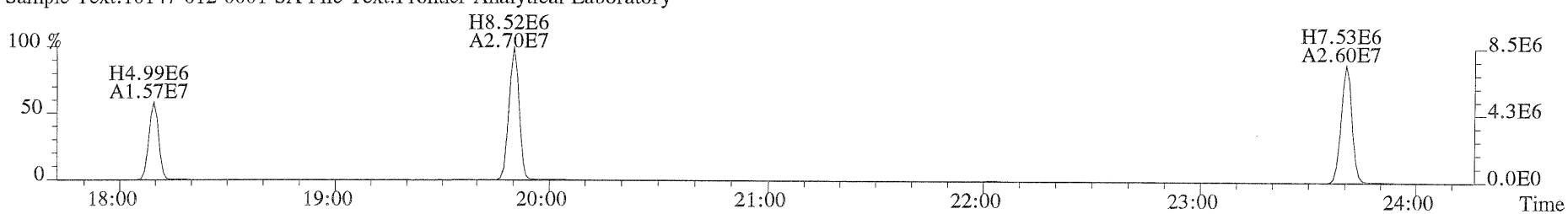
File:28SEP16Y #1-509 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



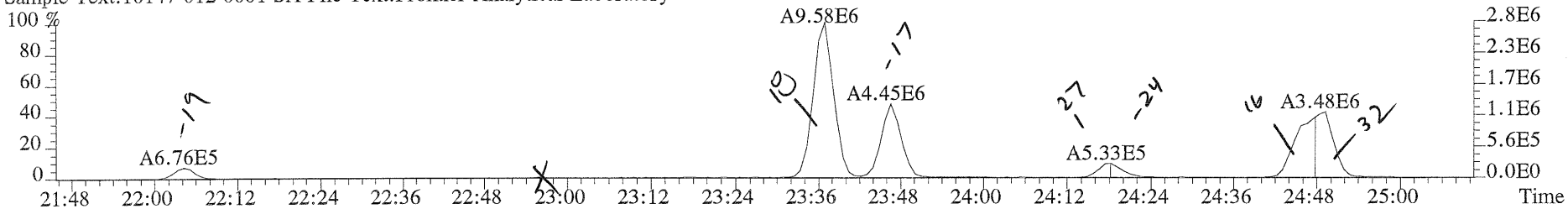
File:28SEP16Y #1-509 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



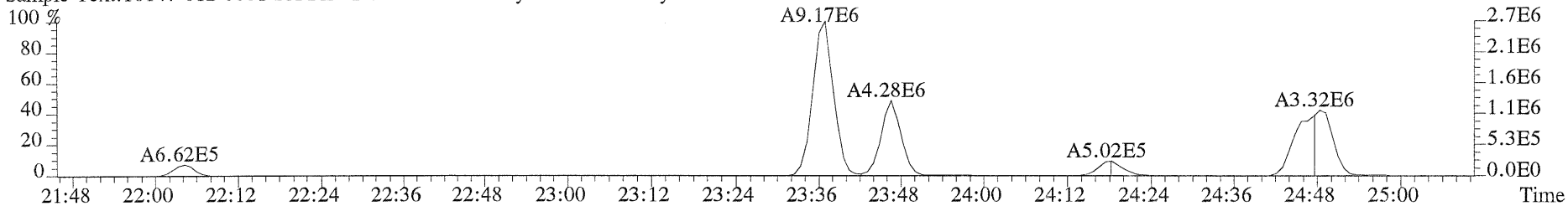
File:28SEP16Y #1-509 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



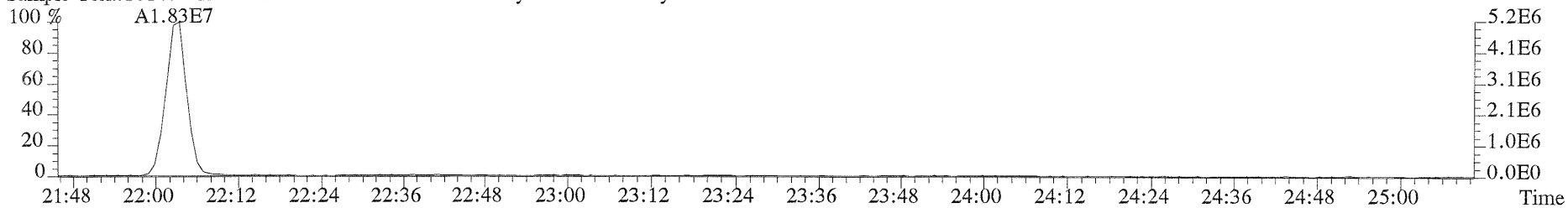
File:28SEP16Y #1-509 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



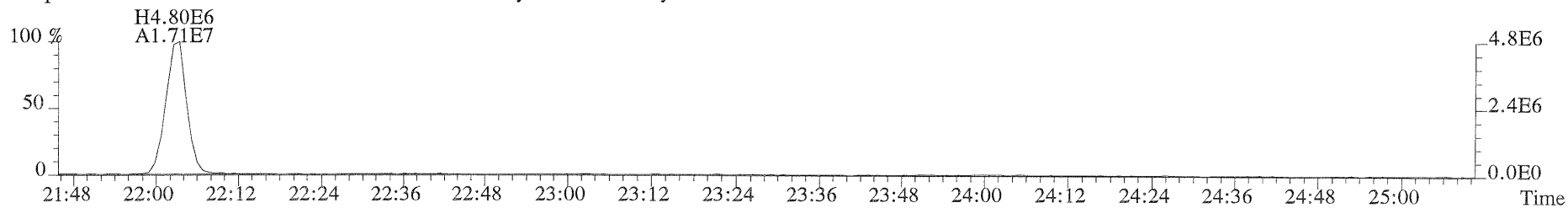
File:28SEP16Y #1-509 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



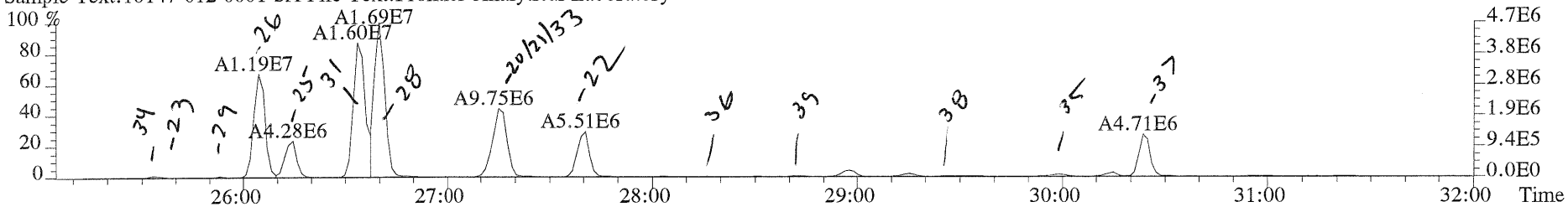
File:28SEP16Y #1-509 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



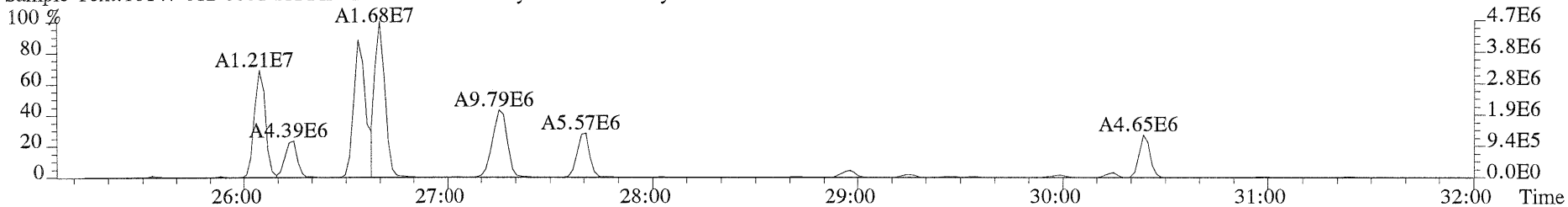
File:28SEP16Y #1-509 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:18 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



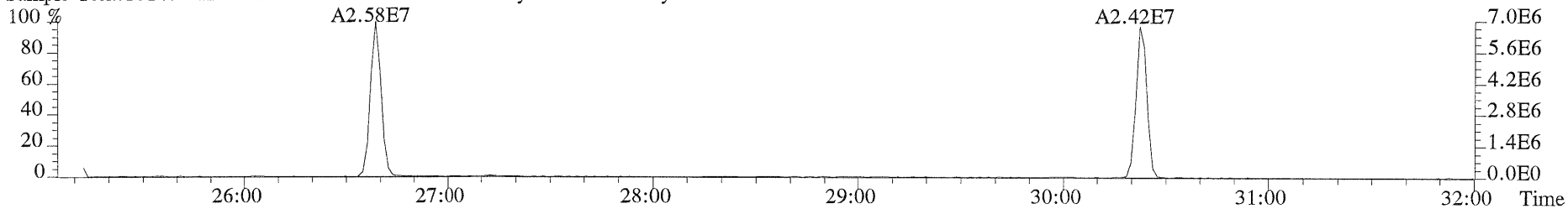
File:28SEP16Y #1-403 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



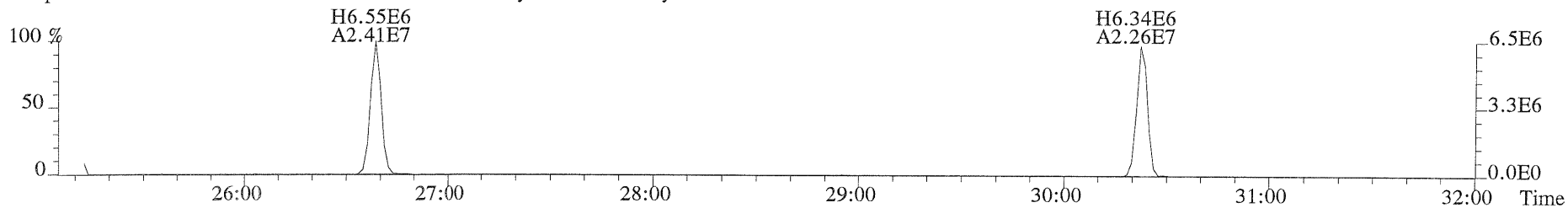
File:28SEP16Y #1-403 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



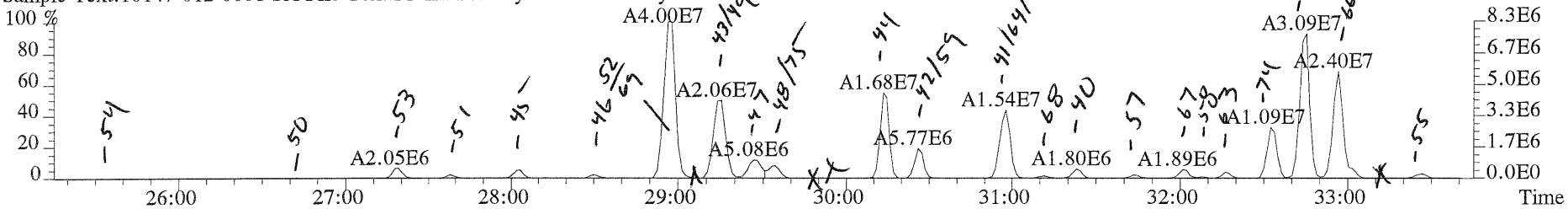
File:28SEP16Y #1-403 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



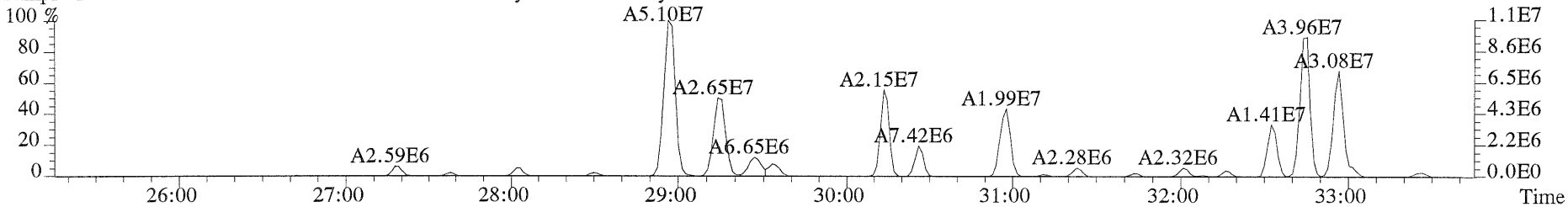
File:28SEP16Y #1-403 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



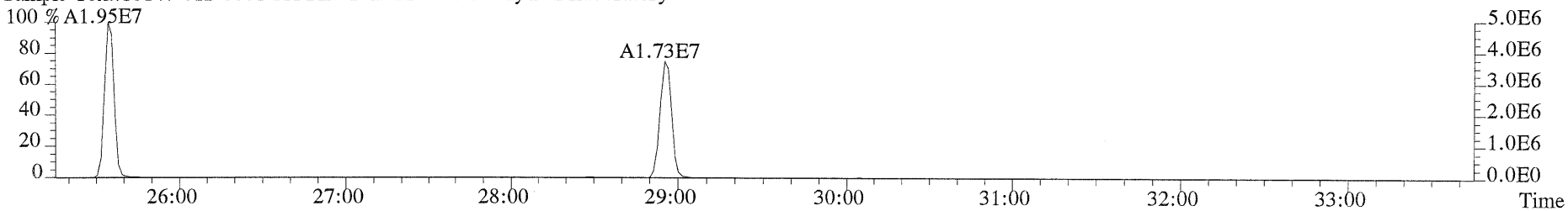
File:28SEP16Y #1-403 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



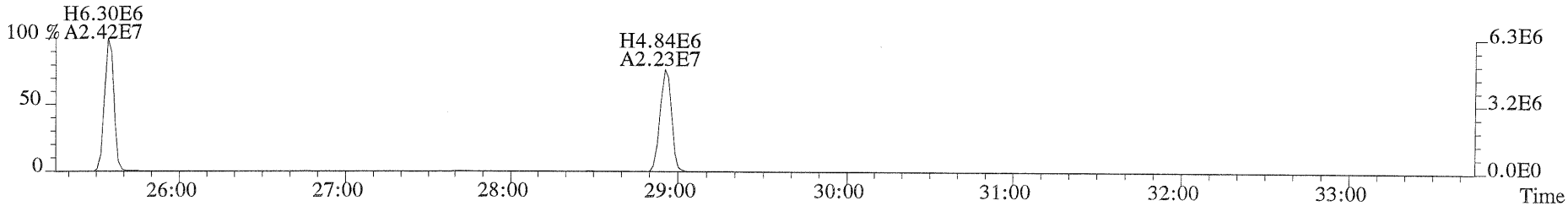
File:28SEP16Y #1-403 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



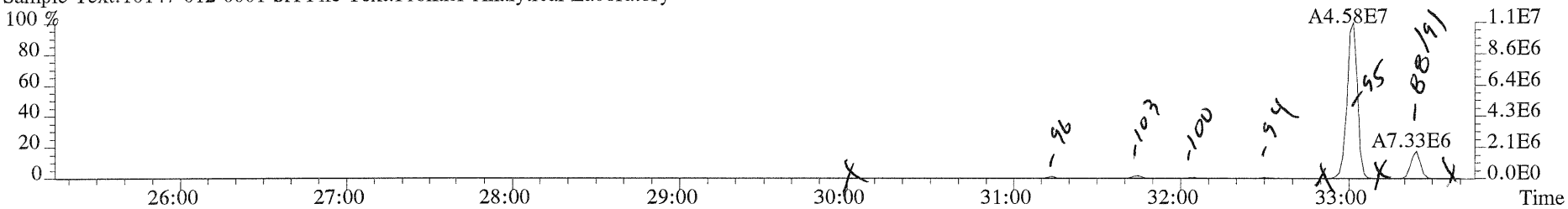
File:28SEP16Y #1-403 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



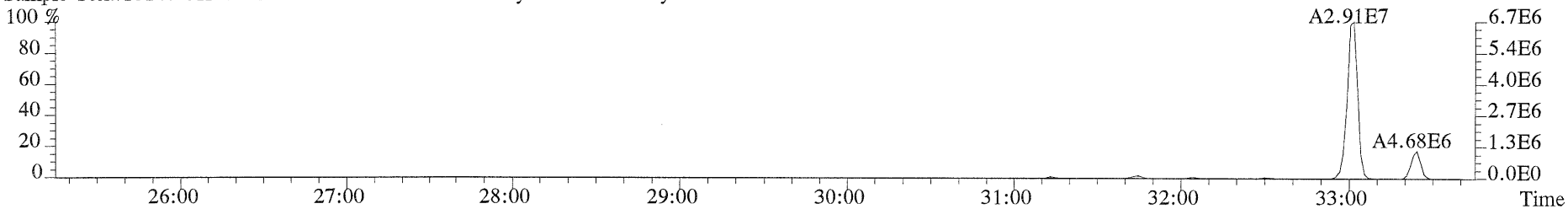
File:28SEP16Y #1-403 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



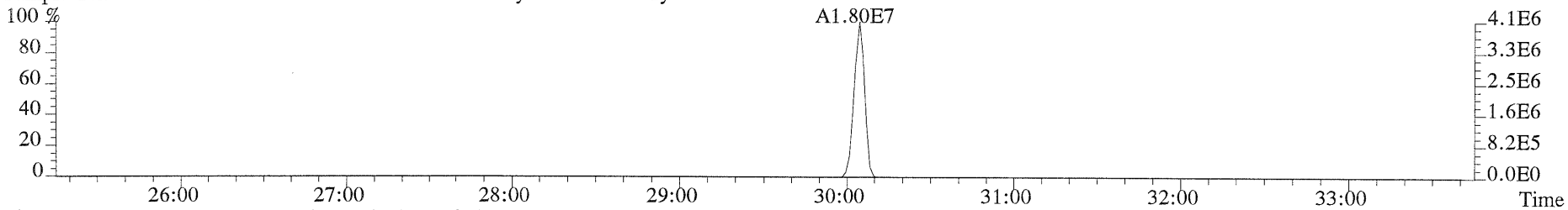
File:28SEP16Y #1-403 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



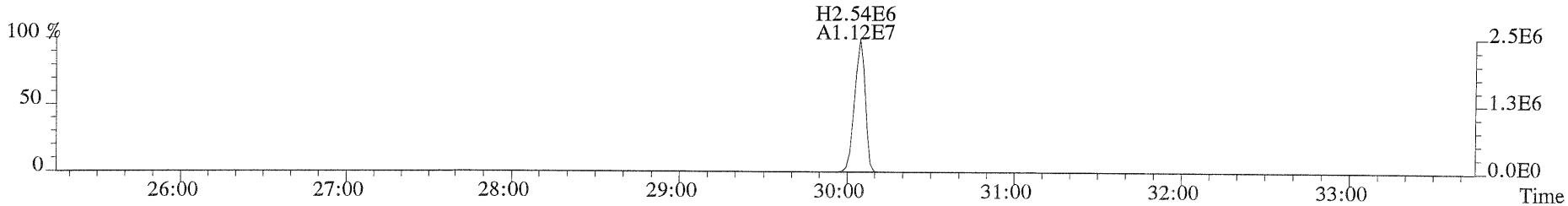
File:28SEP16Y #1-403 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-403 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-403 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:18 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



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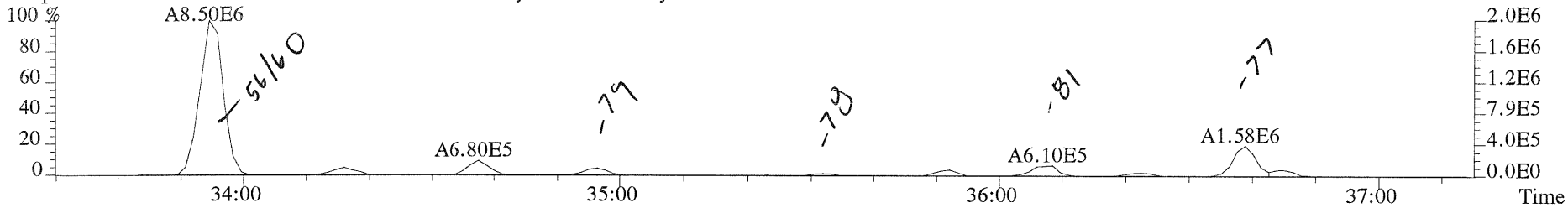
289.9224 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



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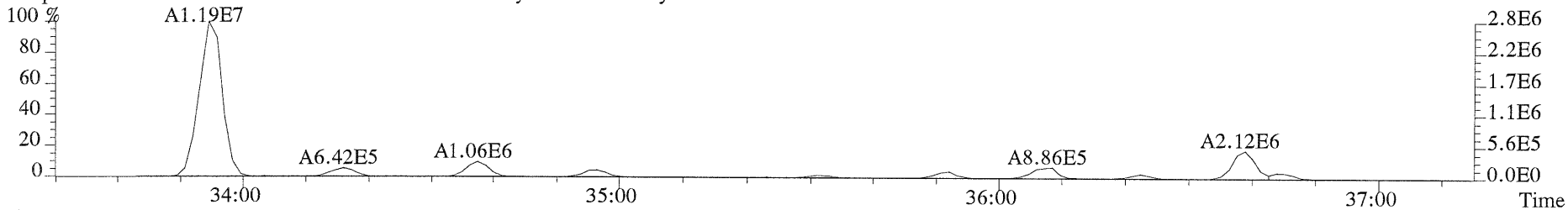
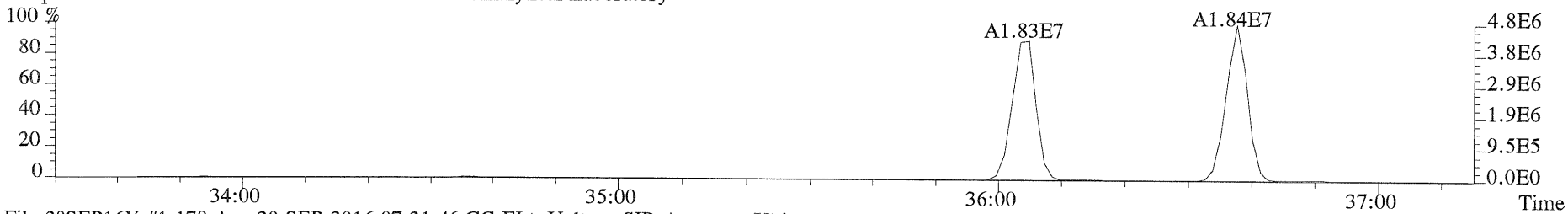
291.9194 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-179 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



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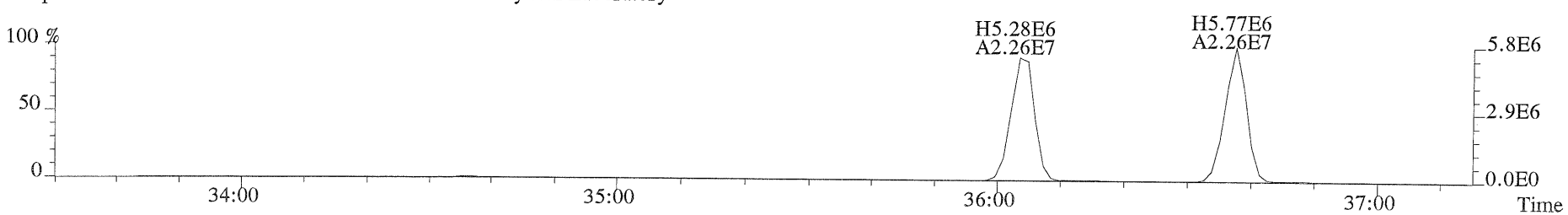
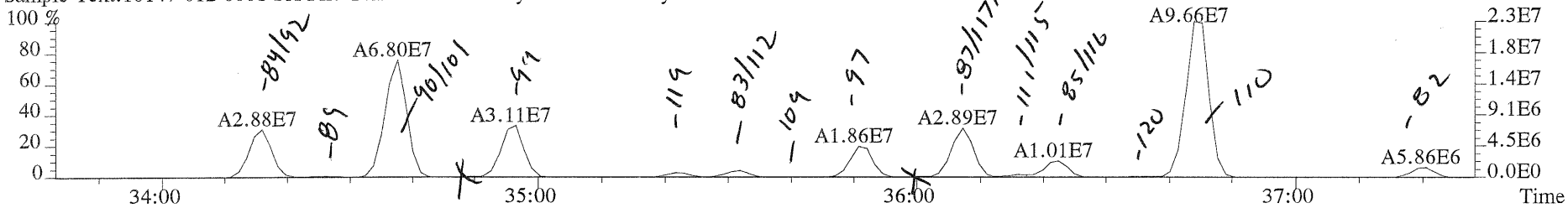
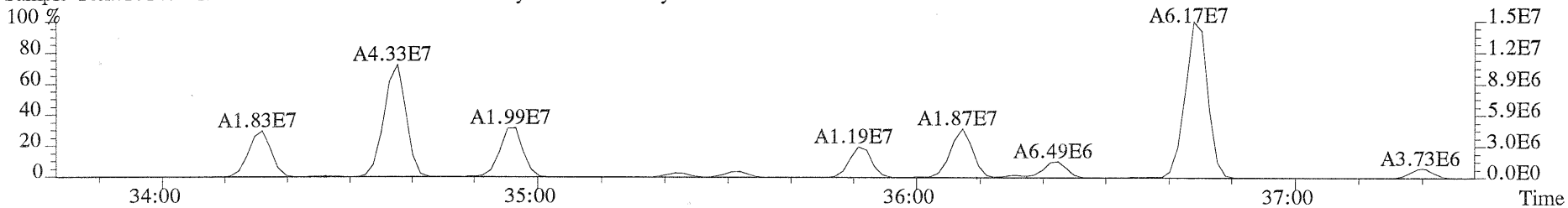
303.9597 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



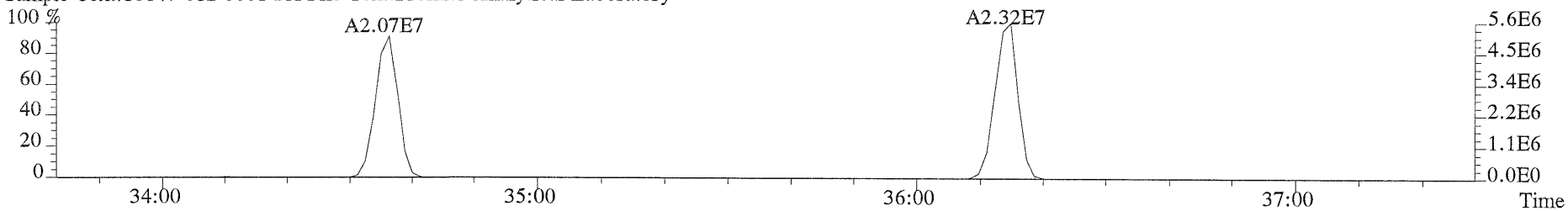
File:28SEP16Y #1-179 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:18 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-179 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:18 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-179 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:18 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



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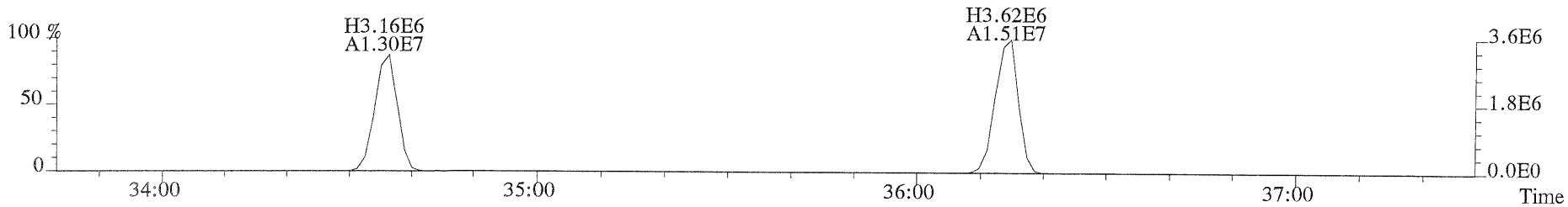
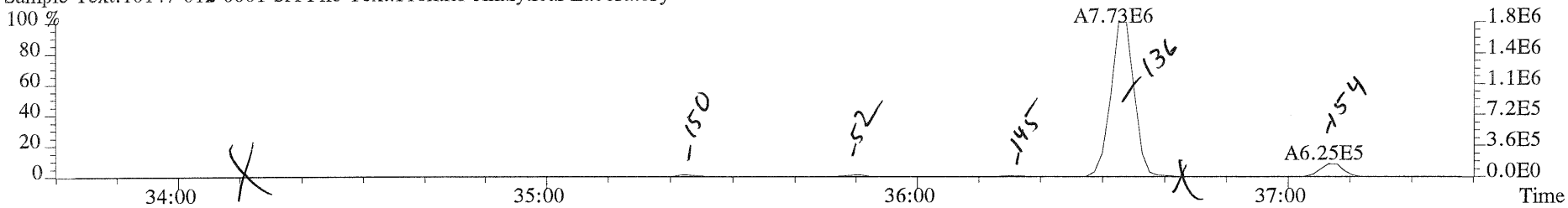
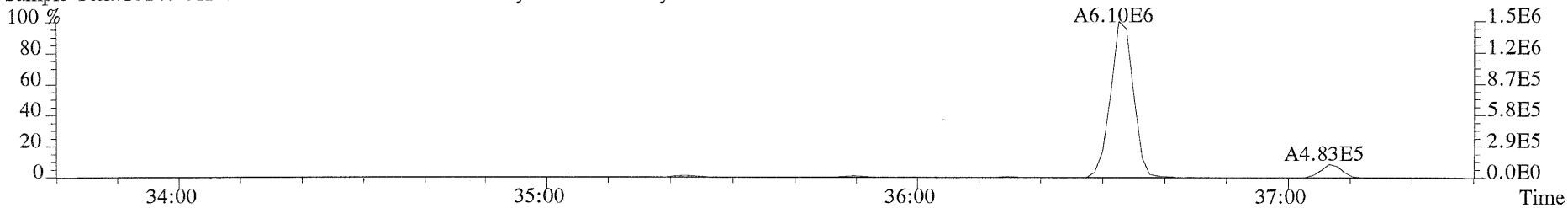
339.9178 S:18 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



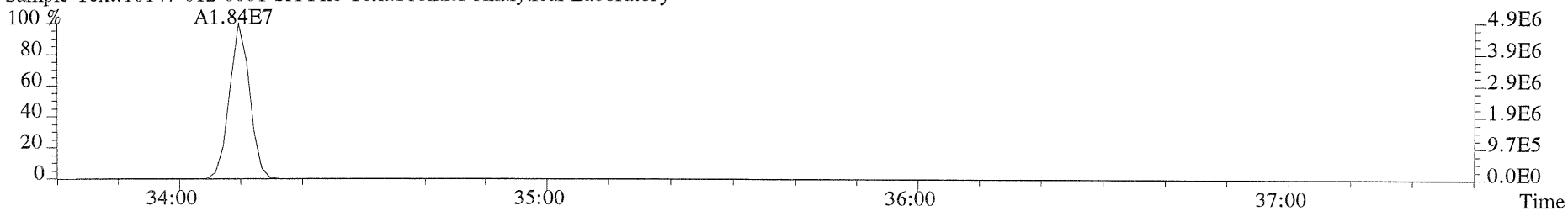
File:28SEP16Y #1-179 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



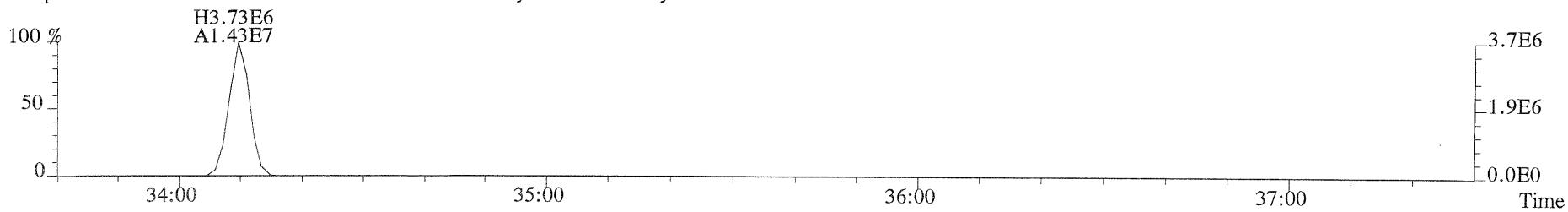
File:28SEP16Y #1-179 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



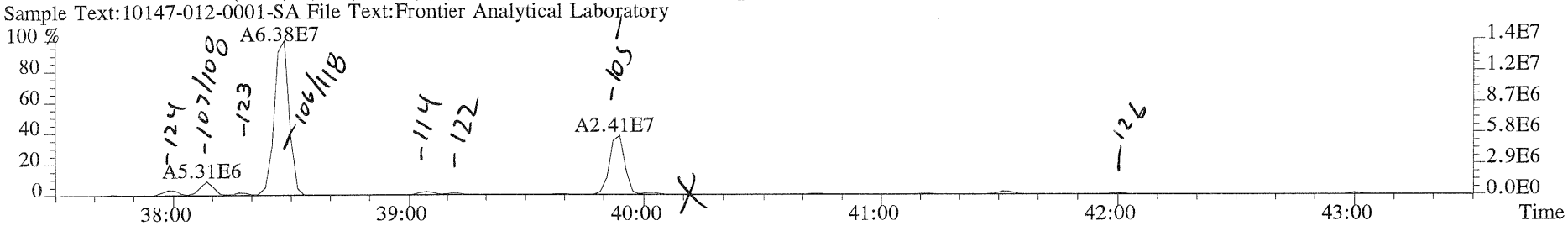
File:28SEP16Y #1-179 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



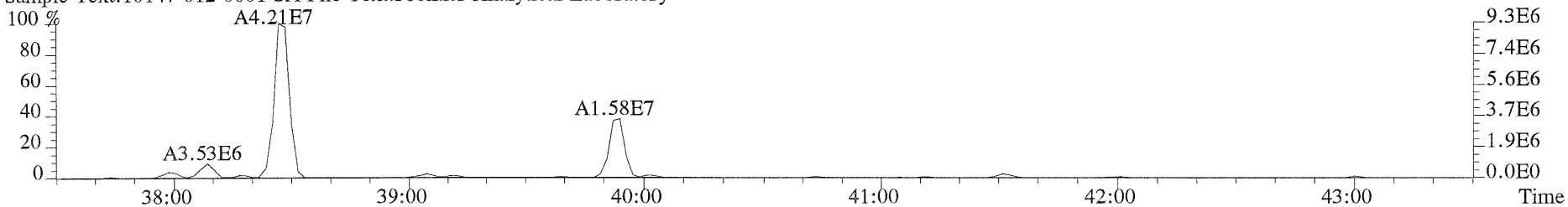
File:28SEP16Y #1-179 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:18 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



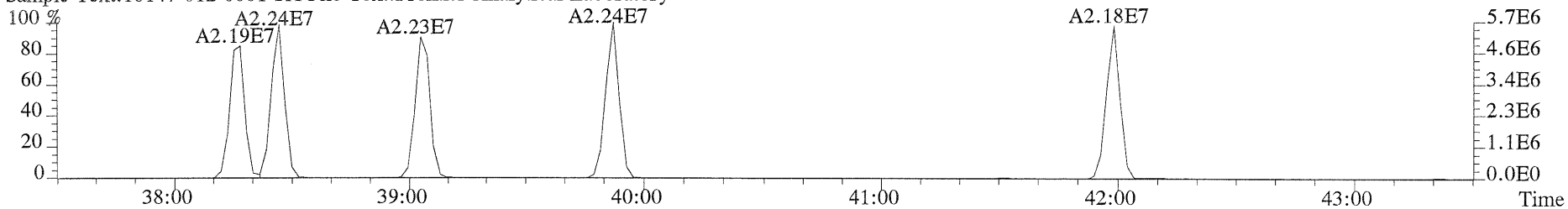
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



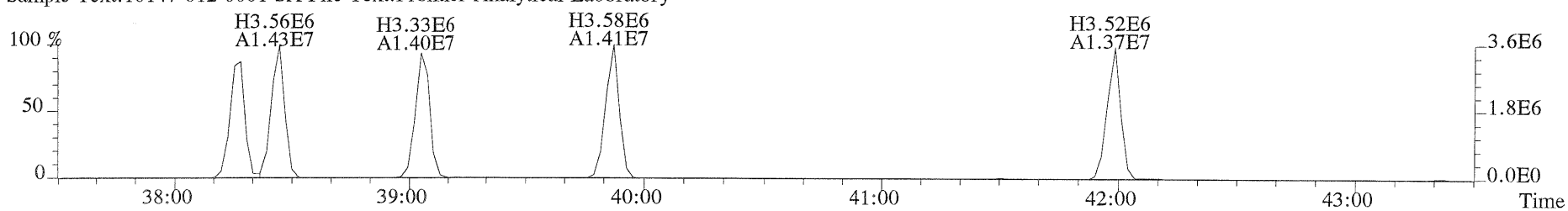
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



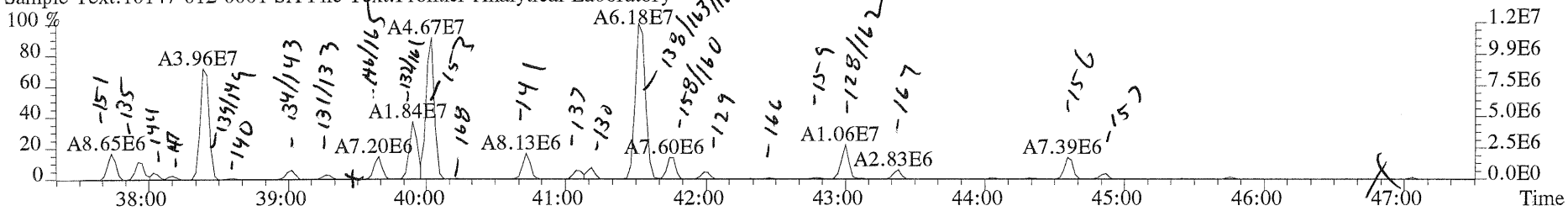
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



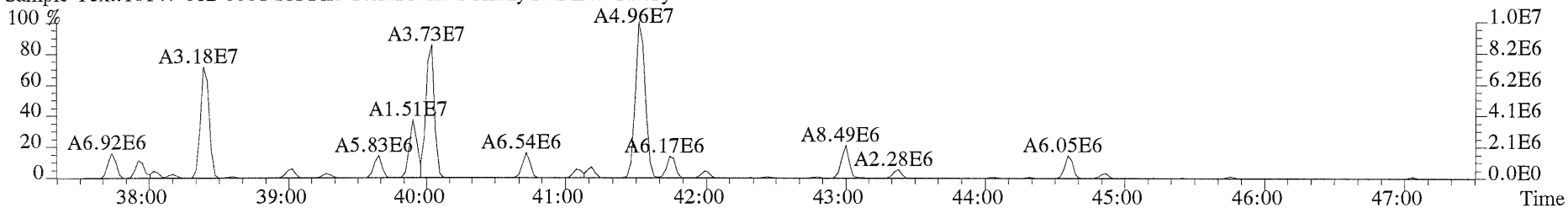
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



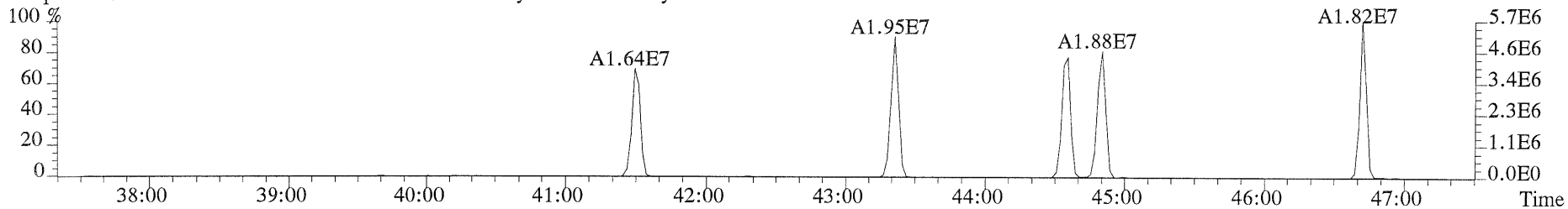
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



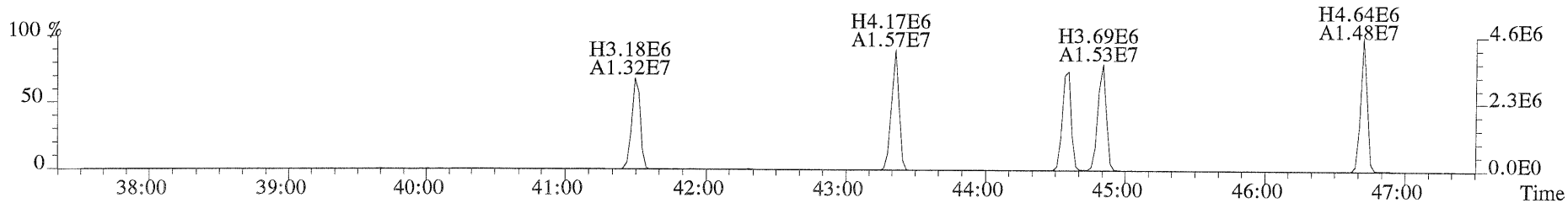
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



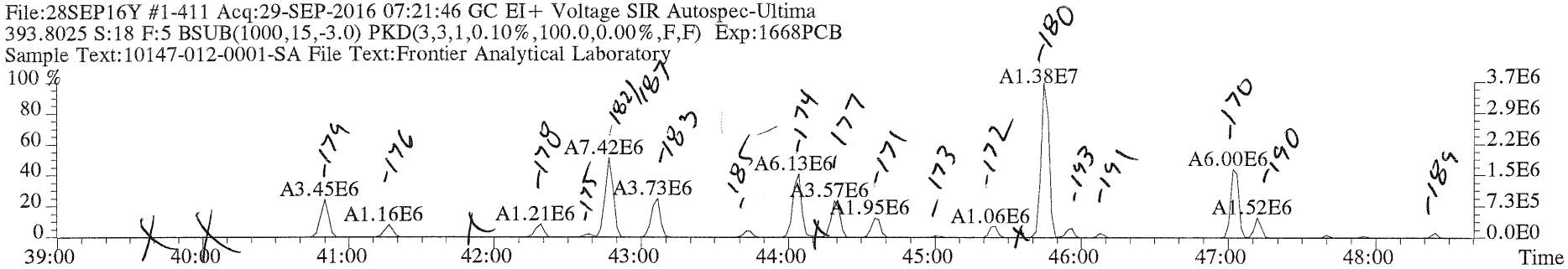
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



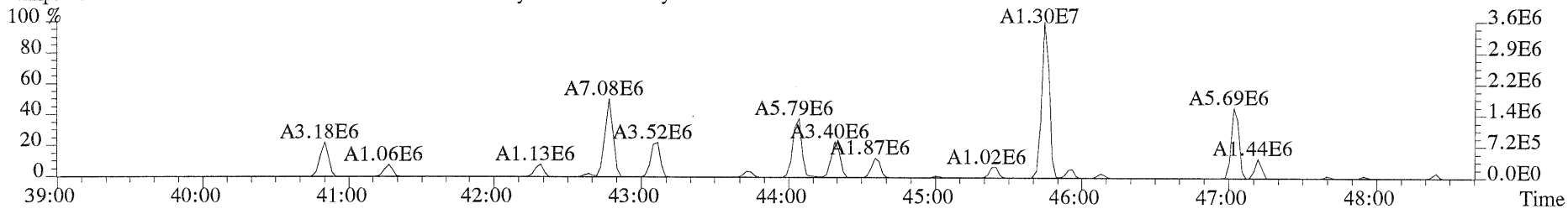
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



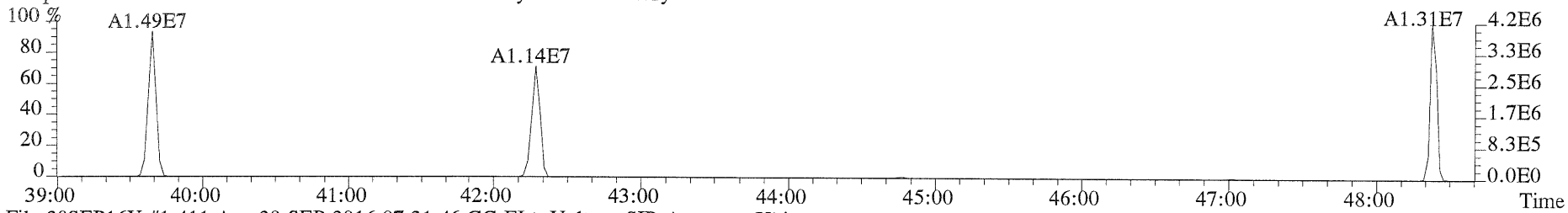
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



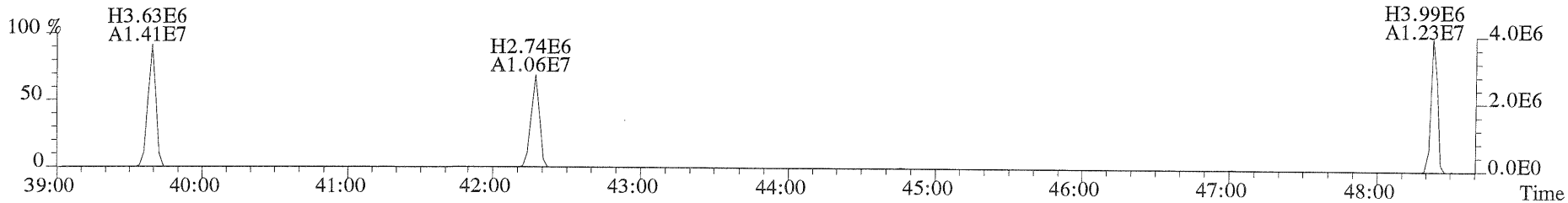
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



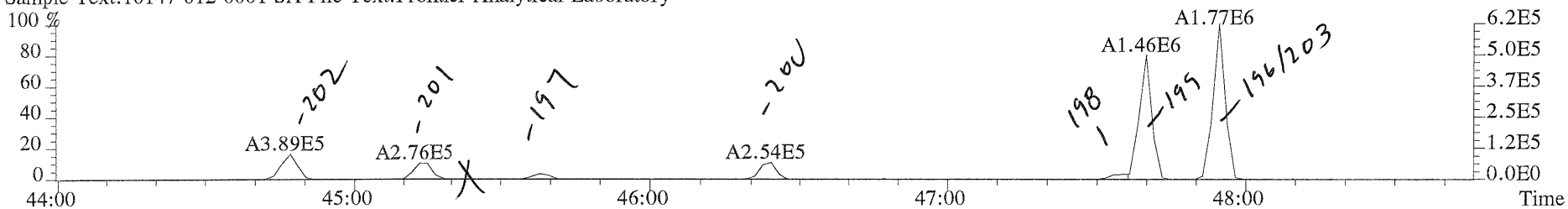
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



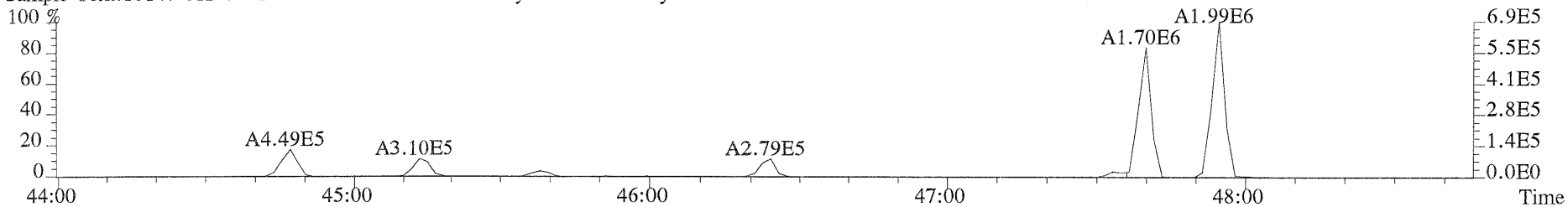
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:18 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



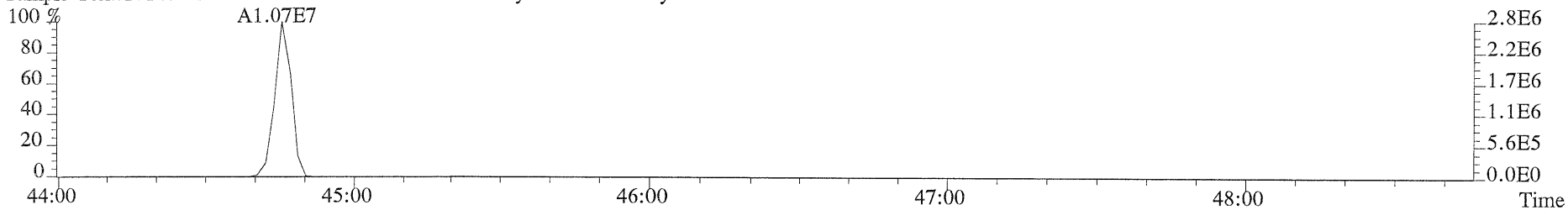
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:18 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



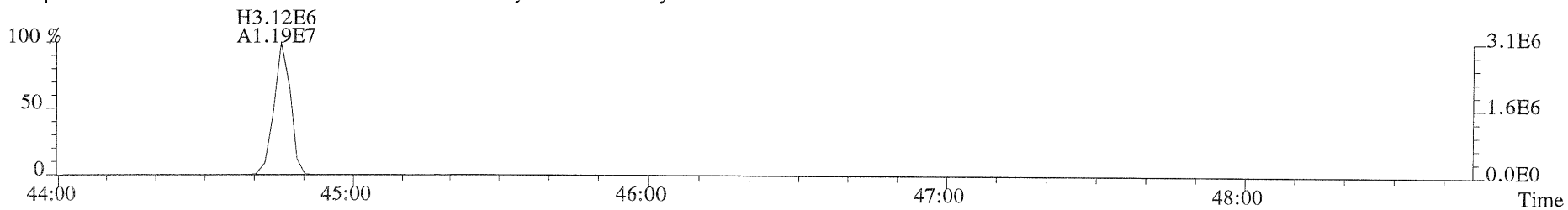
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:18 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



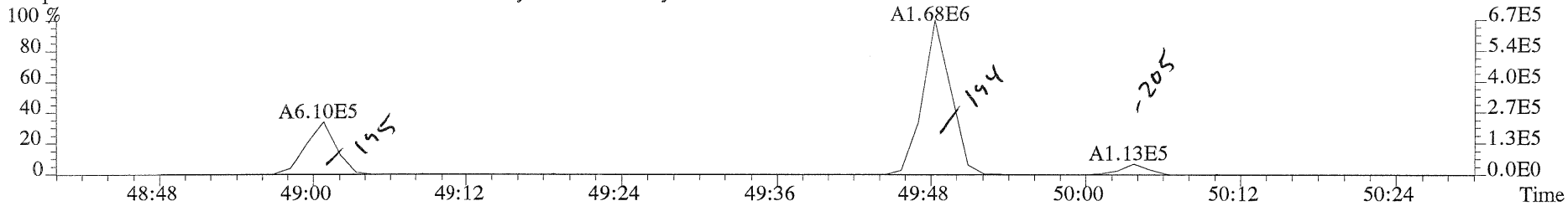
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:18 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



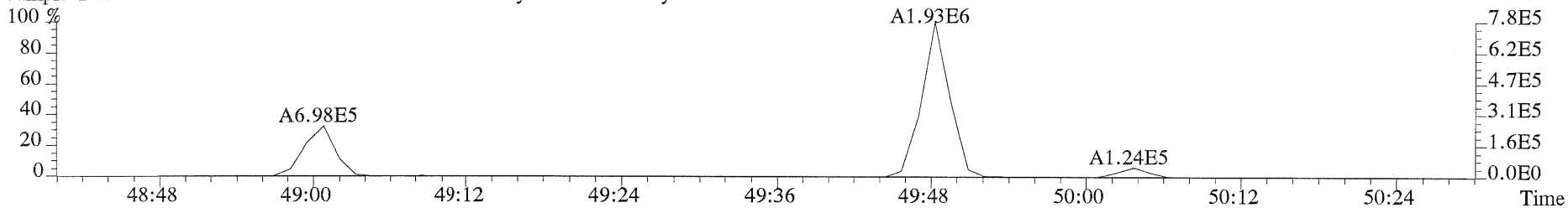
File:28SEP16Y #1-411 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:18 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



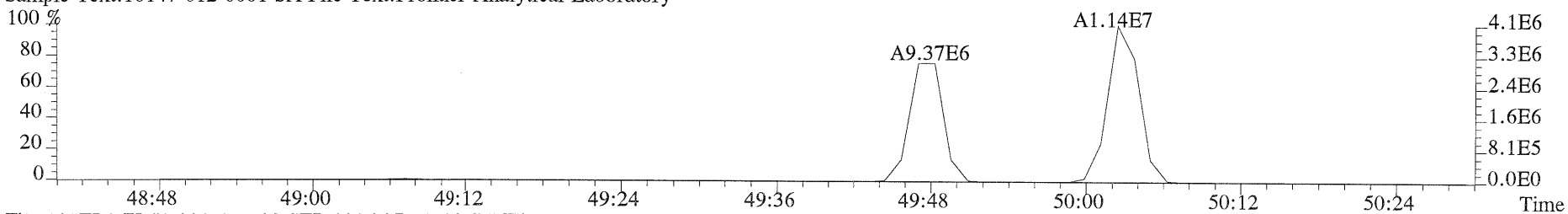
File:28SEP16Y #1-221 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



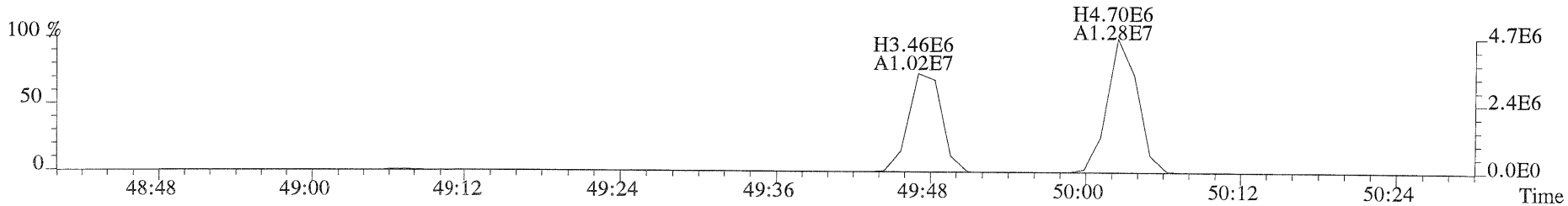
File:28SEP16Y #1-221 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



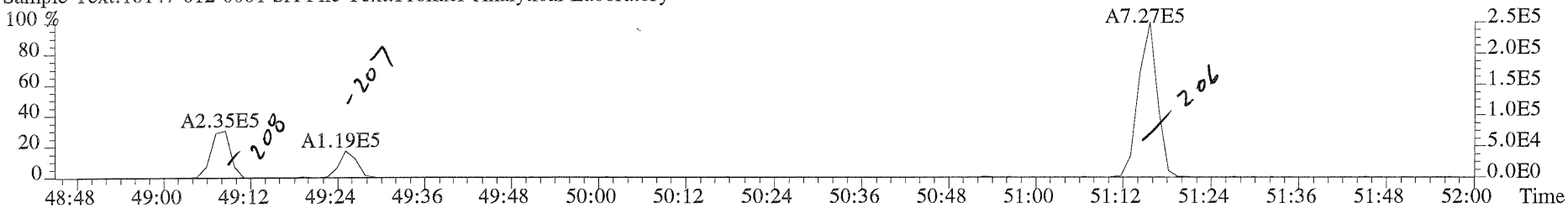
File:28SEP16Y #1-221 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



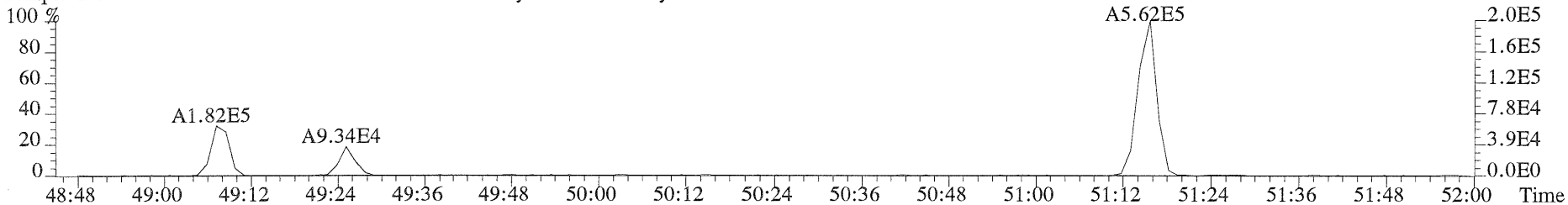
File:28SEP16Y #1-221 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



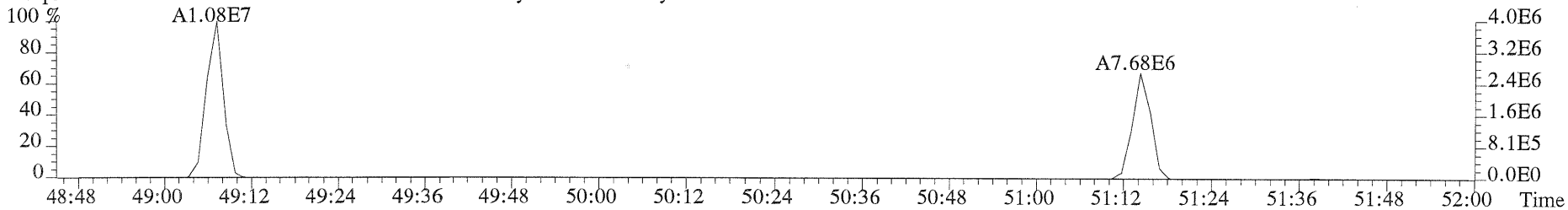
File:28SEP16Y #1-221 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



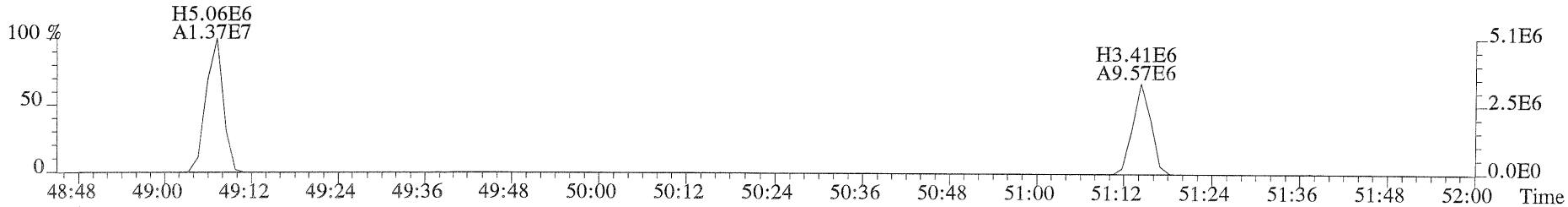
File:28SEP16Y #1-221 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



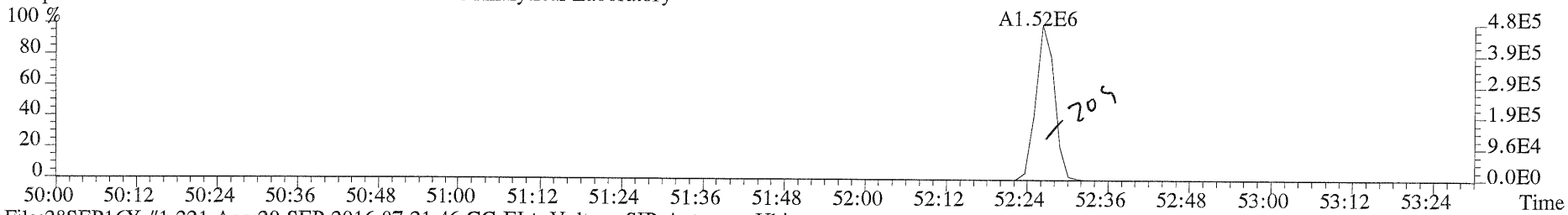
File:28SEP16Y #1-221 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



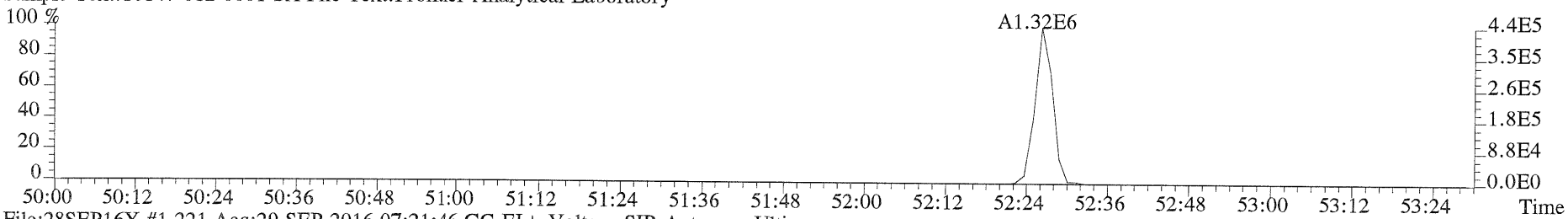
File:28SEP16Y #1-221 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



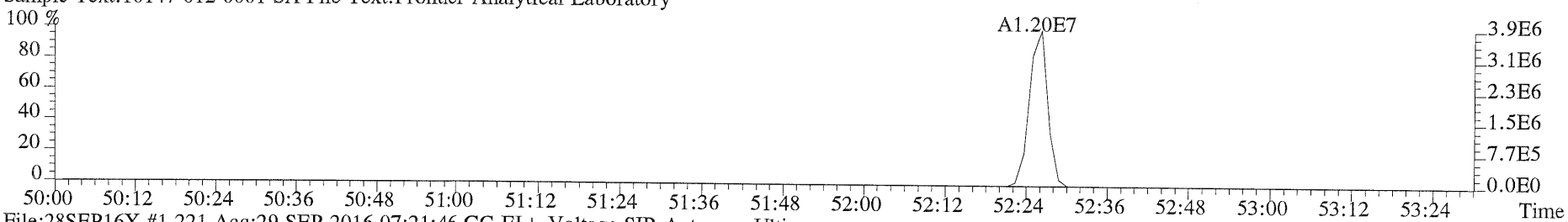
File:28SEP16Y #1-221 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



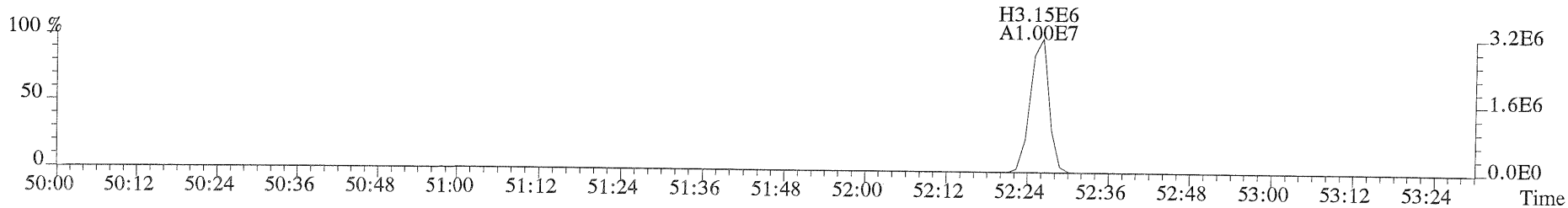
File:28SEP16Y #1-221 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 07:21:46 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:18 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-012-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10147-013-0001-SA Filename: 28SEP16Y Sam:19 Acquired: 29-SEP-16 08:18:15 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-IN-ENR+AC-CC-CORE ConCal: ST092816Y2 EndCal: ST092816Y3
Results: 10147 GC Column: DB1 Amount: 5.040 ✓

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.25e+07	3.12 y	14:30	1.00	347		-	-	*	
13C-PCB-1	7.15e+07	3.14 y	14:29	1.29	1340					67.4
PCB-2	1.66e+06	3.07 y	16:42	0.91	48.3		-	-	*	
PCB-3	5.98e+06	3.12 y	16:55	0.96	159		-	-	*	
13C-PCB-3	7.74e+07	3.21 y	16:54	1.26	1480					74.7
PCB-4	1.28e+07	1.48 y	18:10	0.95	562		-	-	*	
PCB-10	7.99e+05	1.47 y	18:13	1.14	21.6		-	-	*	
13C-PCB-4	4.77e+07	1.57 y	18:09	0.64	1790					90.3
PCB-9	5.47e+06	1.45 y	19:51	1.21	140		-	-	*	
PCB-7	5.29e+06	1.60 y	19:53	1.16	141		-	-	*	
PCB-6	8.46e+07	1.53 y	20:28	1.14	2300		-	-	*	
PCB-8	7.98e+07	1.52 y	20:50	1.15	2150		-	-	*	
PCB-5	*	* n	NotFnd	1.17	*		1500	1610	0.672	
PCB-14	1.47e+05	1.57 y	21:54	1.14	3.98		-	-	*	
PCB-11	5.65e+06	1.51 y	23:02	1.10	159		-	-	*	
PCB-13	1.11e+07	1.51 y	23:22	1.08	319		-	-	*	
PCB-12	1.11e+06	1.54 y	23:25	1.17	29.5		-	-	*	
PCB-15	3.05e+07	1.53 y	23:41	1.08	695		-	-	*	
13C-PCB-15	8.05e+07	1.60 y	23:40	1.00	1950					98.0
PCB-19	8.52e+06	1.04 y	22:04	1.04	382		-	-	*	
PCB-30	*	* n	NotFnd	1.45	*		1510	1630	0.848	
PCB-18	1.31e+08	1.04 y	23:36	1.01	6030		-	-	*	
PCB-17	5.48e+07	1.03 y	23:46	1.08	2370		-	-	*	
PCB-27	6.13e+06	1.03 y	24:17	1.55	184		-	-	*	
PCB-24	5.49e+06	1.08 y	24:18	1.32	194		-	-	*	
PCB-16	3.49e+07	0.94 y	24:46	1.15	1420		-	-	*	
PCB-32	4.26e+07	1.13 y	24:48	1.34	1480		-	-	*	
13C-PCB-19	4.25e+07	1.08 y	22:02	0.66	1550					78.1
13C-PCB-9	8.24e+07	1.57 y	19:49	-	9.85					
PCB-34	2.96e+06	1.00 y	25:33	0.81	138		-	-	*	
PCB-23	1.99e+05	1.13 y	25:38	0.90	8.35		-	-	*	
PCB-29	9.32e+05	1.06 y	25:52	0.90	39.4		-	-	*	
PCB-26	4.16e+08	1.00 y	26:03	0.97	16300		-	-	*	
PCB-25	1.47e+08	1.02 y	26:14	1.21	4600		-	-	*	
PCB-31	2.09e+08	0.97 y	26:34	0.97	8140		-	-	*	
PCB-28	1.98e+08	1.01 y	26:39	1.08	6980		-	-	*	
PCB-20	1.06e+08	0.97 y	27:14	1.02	3920		-	-	*	Co-elute PCB 21/33
PCB-21	1.06e+08	0.97 y	27:14	1.02	3920		-	-	*	Co-elute PCB 20/33
PCB-33	1.06e+08	0.97 y	27:14	1.02	3920		-	-	*	Co-elute PCB 20/21
PCB-22	5.50e+07	0.99 y	27:39	1.08	1930		-	-	*	
PCB-36	4.86e+05	1.13 y	28:14	0.96	19.1		-	-	*	
PCB-39	7.71e+05	1.05 y	28:41	1.00	29.3		-	-	*	
PCB-38	9.56e+05	1.05 y	29:27	0.91	39.6		-	-	*	
PCB-35	2.28e+06	1.06 y	29:59	1.01	85.2		-	-	*	
PCB-37	3.34e+07	1.02 y	30:26	1.08	1170		-	-	*	
13C-PCB-37	5.24e+07	1.09 y	30:25	1.03	2290					115

PCB-54	6.48e+05	0.82	y	25:34	1.04	23.4	-	-	*	
PCB-50	9.61e+05	0.77	y	26:41	0.79	45.8	-	-	*	
PCB-53	2.99e+07	0.78	y	27:18	0.80	1420	-	-	*	
PCB-51	9.17e+06	0.78	y	27:37	0.84	413	-	-	*	
PCB-45	2.12e+07	0.78	y	28:02	0.72	1120	-	-	*	
PCB-46	8.45e+06	0.79	y	28:30	0.69	461	-	-	*	
PCB-52	6.17e+08	0.78	y	28:57	0.99	23500	-	-	*	Co-elute PCB 69
PCB-69	6.17e+08	0.78	y	28:57	0.99	23500	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.07	*	1100	1010	0.741	
PCB-43	2.96e+08	0.78	y	29:14	0.79	14200	-	-	*	Co-elute PCB 49
PCB-49	2.96e+08	0.78	y	29:14	0.79	14200	-	-	*	Co-elute PCB 43
PCB-47	6.83e+07	0.77	y	29:27	1.07	2410	-	-	*	
PCB-48	2.70e+07	0.79	y	29:33	0.94	1080	-	-	*	Co-elute PCB 75
PCB-75	2.70e+07	0.79	y	29:33	0.94	1080	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*	1100	1010	0.800	
PCB-62	*	*	n	NotFnd	0.99	*	1100	1010	0.797	
PCB-44	2.00e+08	0.77	y	30:15	0.73	10300	-	-	*	
PCB-42	7.16e+07	0.79	y	30:30	0.98	2740	-	-	*	Co-elute PCB 59
PCB-59	7.16e+07	0.79	y	30:30	0.98	2740	-	-	*	Co-elute PCB 42
PCB-72	1.70e+08	0.78	y	31:03	1.09	5900	-	-	*	Co-elute PCB 41/71/64
PCB-41	1.70e+08	0.78	y	31:03	1.09	5900	-	-	*	Co-elute PCB 72/71/64
PCB-71	1.70e+08	0.78	y	31:03	1.09	5900	-	-	*	Co-elute PCB 72/41/64
PCB-64	1.70e+08	0.78	y	31:03	1.09	5900	-	-	*	Co-elute PCB 72/41/71
PCB-68	4.46e+06	0.79	y	31:13	1.12	149	-	-	*	
PCB-40	1.76e+07	0.78	y	31:25	0.63	1050	-	-	*	
PCB-57	1.80e+07	0.79	y	31:45	1.08	629	-	-	*	
PCB-67	4.28e+07	0.78	y	32:02	1.07	1500	-	-	*	
PCB-58	2.86e+06	0.79	y	32:09	1.08	99.8	-	-	*	
PCB-63	1.45e+07	0.78	y	32:18	1.08	508	-	-	*	
PCB-74	1.07e+08	0.77	y	32:33	1.18	3420	-	-	*	
PCB-61	1.96e+08	0.77	y	32:45	1.15	6390	-	-	*	Co-elute PCB 70
PCB-70	1.96e+08	0.77	y	32:45	1.15	6390	-	-	*	Co-elute PCB 61
PCB-76	2.07e+08	0.78	y	32:57	1.13	6860	-	-	*	Co-elute PCB 66
PCB-66	2.07e+08	0.78	y	32:57	1.13	6860	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.27	*	1100	1010	0.624	
PCB-55	2.73e+07	0.78	y	33:27	1.13	913	-	-	*	
13C-PCB-54	5.27e+07	0.80	y	25:34	1.09	2160				109
PCB-104	*	*	n	NotFnd	1.13	*	678	755	1.06	
PCB-96	2.73e+06	1.56	y	31:17	1.06	165	-	-	*	
PCB-103	5.69e+06	1.54	y	31:45	0.88	410	-	-	*	
PCB-100	2.18e+06	1.53	y	32:05	0.87	159	-	-	*	
PCB-94	1.79e+06	1.62	y	32:32	0.74	152	-	-	*	
PCB-98	*	*	n	NotFnd	1.06	*	678	755	1.14	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	1.06	*	678	755	1.14	Co-elute PCB 98
PCB-95	3.40e+08	1.58	y	33:02	0.63	34000	-	-	*	
PCB-93	*	*	n	NotFnd	0.63	*	678	755	1.91	
PCB-88	5.65e+07	1.56	y	33:25	0.83	4320	-	-	*	Co-elute PCB 91
PCB-91	5.65e+07	1.56	y	33:25	0.83	4320	-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.99	*	678	755	1.22	
13C-PCB-104	3.12e+07	1.59	y	30:05	0.98	1430				72.0
13C-PCB-28	6.26e+07	1.06	y	26:38	1.01	2770				139
13C-PCB-52	4.43e+07	0.81	y	28:55	-	7.39				

PCB-56	7.51e+07	0.74	y	33:55	0.89	3300	-	-	*	Co-elute PCB 60
PCB-60	7.51e+07	0.74	y	33:55	0.89	3300	-	-	*	Co-elute PCB 56
PCB-79	2.56e+06	0.66	y	34:57	1.00	100	-	-	*	
PCB-78	1.31e+06	0.73	y	35:32	0.97	53.0	-	-	*	
PCB-81	6.34e+06	0.68	y	36:07	1.07	237	-	-	*	
13C-PCB-81	4.95e+07	0.81	y	36:04	0.96	2480				125
PCB-77	1.17e+07	0.74	y	36:39	1.01	445	-	-	*	
13C-PCB-77	5.16e+07	0.81	y	36:38	1.02	2430				122
PCB-155	*	*	n	NotFnd	1.05	*	756	877	0.739	
PCB-150	6.49e+05	1.22	y	35:23	0.96	33.0	-	-	*	
PCB-152	5.36e+05	1.34	y	35:50	0.94	27.8	-	-	*	
PCB-145	2.20e+05	1.31	y	36:15	0.94	11.5	-	-	*	
PCB-136	5.74e+07	1.27	y	36:33	0.94	2970	-	-	*	
PCB-148	*	*	n	NotFnd	0.68	*	756	877	1.15	
PCB-154	4.41e+06	1.28	y	37:07	0.80	269	-	-	*	
13C-PCB-155	4.06e+07	1.27	y	34:10	1.15	1700				85.6
13C-PCB-111	4.94e+07	1.58	y	36:14	1.14	2080				105
13C-PCB-101	4.12e+07	1.59	y	34:36	-	7.21				
PCB-84	2.21e+08	1.58	y	34:16	0.87	11200	-	-	*	Co-elute PCB 92
PCB-92	2.21e+08	1.58	y	34:16	0.87	11200	-	-	*	Co-elute PCB 84
PCB-89	3.80e+06	1.61	y	34:26	0.86	194	-	-	*	
PCB-90	3.52e+08	1.56	y	34:38	0.98	15800	-	-	*	Co-elute PCB 101
PCB-101	3.52e+08	1.56	y	34:38	0.98	15800	-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.12	*	754	811	0.645	
PCB-99	1.87e+08	1.57	y	34:57	1.06	7770	-	-	*	
PCB-119	2.18e+07	1.57	y	35:22	1.26	766	-	-	*	
PCB-83	2.86e+07	1.57	y	35:32	1.00	1260	-	-	*	Co-elute PCB 112
PCB-112	2.86e+07	1.57	y	35:32	1.00	1260	-	-	*	Co-elute PCB 83
PCB-109	3.32e+05	1.69	y	35:41	1.13	13.0	-	-	*	
PCB-97	1.04e+08	1.56	y	35:51	1.06	4320	-	-	*	
PCB-86	*	*	n	NotFnd	0.88	*	754	811	0.816	
PCB-125	2.17e+08	1.55	y	36:07	1.13	8440	-	-	*	Co-elute PCB 87/117
PCB-87	2.17e+08	1.55	y	36:07	1.13	8440	-	-	*	Co-elute PCB 125/117
PCB-117	2.17e+08	1.55	y	36:07	1.13	8440	-	-	*	Co-elute PCB 125/87
PCB-111	8.11e+06	1.53	y	36:16	1.45	247	-	-	*	Co-elute PCB 115
PCB-115	8.11e+06	1.53	y	36:16	1.45	247	-	-	*	Co-elute PCB 111
PCB-85	7.12e+07	1.55	y	36:23	1.02	3080	-	-	*	Co-elute PCB 116
PCB-116	7.12e+07	1.55	y	36:23	1.02	3080	-	-	*	Co-elute PCB 85
PCB-120	2.62e+06	1.47	y	36:36	1.34	86.4	-	-	*	
PCB-110	6.77e+08	1.55	y	36:44	1.30	23000	-	-	*	
PCB-82	4.05e+07	1.56	y	37:21	0.75	2380	-	-	*	
PCB-124	1.63e+07	1.51	y	37:59	0.99	724	-	-	*	
PCB-108	3.10e+07	1.53	y	38:09	0.95	1440	-	-	*	Co-elute PCB 107
PCB-107	3.10e+07	1.53	y	38:09	0.95	1440	-	-	*	Co-elute PCB 108
PCB-123	6.00e+06	1.50	y	38:17	1.08	250	-	-	*	
13C-PCB-123	4.39e+07	1.58	y	38:16	0.97	2450				123
PCB-118	3.59e+08	1.51	y	38:27	0.91	17200	-	-	*	Co-elute PCB 106
PCB-106	3.59e+08	1.51	y	38:27	0.91	17200	-	-	*	Co-elute PCB 118
13C-PCB-118	4.57e+07	1.59	y	38:27	1.06	2340				118
PCB-114	9.18e+06	1.48	y	39:05	0.97	416	-	-	*	
13C-PCB-114	4.52e+07	1.58	y	39:04	1.04	2360				119
PCB-122	4.67e+06	1.49	y	39:12	0.95	217	-	-	*	
PCB-105	1.44e+08	1.56	y	39:53	0.94	6670	-	-	*	
13C-PCB-105	4.54e+07	1.60	y	39:53	1.03	2380				120

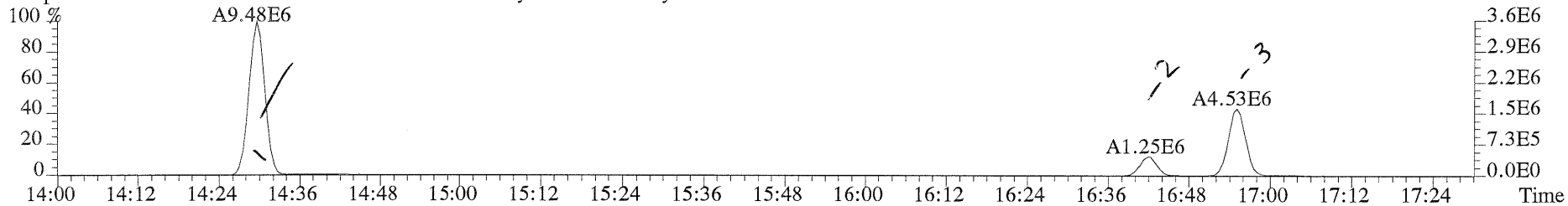
PCB-127	*	*	n	NotFnd	0.86	*	801	899	0.914		
PCB-126	2.01e+06	1.46	y	42:00	0.98	92.0	-	-	*		
13C-PCB-126	4.44e+07	1.61	y	41:60	0.91	2630				133	
PCB-151	6.07e+07	1.26	y	37:45	0.82	3480	-	-	*		
PCB-135	4.43e+07	1.25	y	37:56	0.88	2360	-	-	*		
PCB-144	1.53e+07	1.27	y	38:03	0.82	879	-	-	*		
PCB-147	9.72e+06	1.27	y	38:11	0.86	529	-	-	*		
PCB-139	2.80e+08	1.25	y	38:24	0.90	14500	-	-	*	Co-elute PCB 149	
PCB-149	2.80e+08	1.25	y	38:24	0.90	14500	-	-	*	Co-elute PCB 139	
PCB-140	2.56e+06	1.22	y	38:36	0.83	144	-	-	*		
PCB-143	2.22e+07	1.26	y	39:00	0.82	1260	-	-	*	Co-elute PCB 134	
PCB-134	2.22e+07	1.26	y	39:00	0.82	1260	-	-	*	Co-elute PCB 143	
PCB-131	1.07e+07	1.25	y	39:17	0.83	603	-	-	*	Co-elute PCB 133	
PCB-133	1.07e+07	1.25	y	39:17	0.83	603	-	-	*	Co-elute PCB 131	
PCB-142	8.01e+04	1.34	y	39:27	0.71	5.32	-	-	*		
PCB-165	4.24e+07	1.25	y	39:40	0.97	2050	-	-	*	Co-elute PCB 146	
PCB-146	4.24e+07	1.25	y	39:40	0.97	2050	-	-	*	Co-elute PCB 165	
PCB-161	1.37e+08	1.23	y	39:55	0.92	6940	-	-	*	Co-elute PCB 132	
PCB-132	1.37e+08	1.23	y	39:55	0.92	6940	-	-	*	Co-elute PCB 161	
PCB-153	2.65e+08	1.25	y	40:01	0.95	13100	-	-	*		
PCB-168	5.77e+05	1.19	y	40:14	1.05	25.6	-	-	*		
PCB-141	5.41e+07	1.25	y	40:44	0.81	3110	-	-	*		
PCB-137	2.22e+07	1.21	y	41:05	0.76	1370	-	-	*		
PCB-130	2.30e+07	1.25	y	41:12	0.74	1450	-	-	*		
PCB-138	3.85e+08	1.24	y	41:32	1.10	16400	-	-	*	Co-elute PCB 163/164	
PCB-163	3.85e+08	1.24	y	41:32	1.10	16400	-	-	*	Co-elute PCB 138/164	
PCB-164	3.85e+08	1.24	y	41:32	1.10	16400	-	-	*	Co-elute PCB 138/163	
PCB-158	5.10e+07	1.26	y	41:45	1.06	2260	-	-	*	Co-elute PCB 160	
PCB-160	5.10e+07	1.26	y	41:45	1.06	2260	-	-	*	Co-elute PCB 158	
PCB-129	1.59e+07	1.24	y	42:00	0.66	1120	-	-	*		
PCB-166	2.09e+06	1.22	y	42:26	0.99	98.6	-	-	*		
PCB-159	2.45e+06	1.24	y	42:47	1.05	109	-	-	*		
PCB-128	7.48e+07	1.24	y	43:01	0.90	3890	-	-	*	Co-elute PCB 162	
PCB-162	7.48e+07	1.24	y	43:01	0.90	3890	-	-	*	Co-elute PCB 128	
PCB-167	1.75e+07	1.24	y	43:22	0.94	852	-	-	*		
13C-PCB-167	4.33e+07	1.24	y	43:22	1.12	2080				105	
PCB-156	4.66e+07	1.24	y	44:36	0.99	2160	-	-	*		
13C-PCB-156	4.31e+07	1.24	y	44:34	1.07	2180				110	
PCB-157	1.11e+07	1.23	y	44:51	0.94	548	-	-	*		
13C-PCB-157	4.28e+07	1.24	y	44:49	1.10	2110				106	
PCB-169	*	*	n	NotFnd	0.95	*	912	966	0.778		
13C-PCB-169	4.06e+07	1.24	y	46:43	0.98	2240				113	

FAL ID: 10147-013-0001-SA Filename: 28SEP16Y Sam:19 Acquired: 29-SEP-16 08:18:15 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-IN-ENR+AC-CC-CORE ConCal: ST092816Y2 EndCal: ST092816Y3
Results: 10147 GC Column: DB1 Amount: 5.040

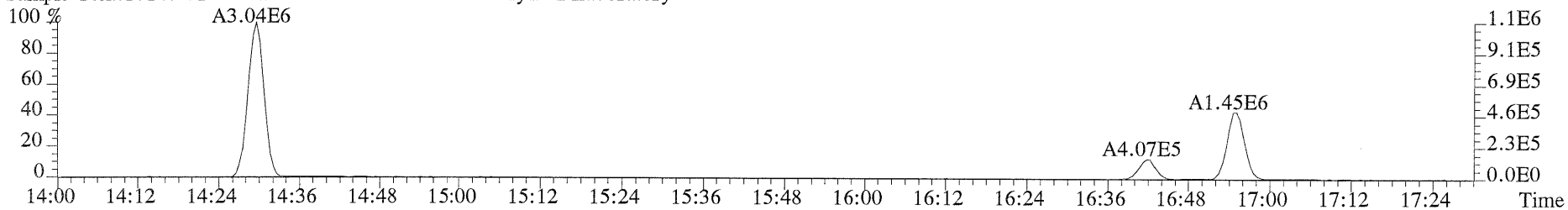
PCB-188	9.90e+04	1.08	y	39:41	1.11	4.88			-	-	*	
13C-PCB-188	3.62e+07	1.07	y	39:40	1.23	1590						80.2
PCB-184	6.13e+04	1.08	y	40:06	1.25	2.90	J		-	-	*	
PCB-179	2.18e+07	1.05	y	40:51	1.23	1050			-	-	*	
PCB-176	7.67e+06	1.05	y	41:17	1.19	381			-	-	*	
PCB-186	*	*	n	NotFnd	1.18	*			988	1010	0.852	
PCB-178	7.74e+06	1.07	y	42:18	0.85	536			-	-	*	
PCB-175	1.91e+06	1.04	y	42:37	0.89	127			-	-	*	
PCB-187	4.77e+07	1.05	y	42:47	0.95	2980			-	-	*	Co-elute PCB 182
PCB-182	4.77e+07	1.05	y	42:47	0.95	2980			-	-	*	Co-elute PCB 187
PCB-183	2.47e+07	1.06	y	43:05	0.95	1540			-	-	*	
PCB-185	3.70e+06	1.05	y	43:43	0.86	255			-	-	*	
PCB-174	4.00e+07	1.05	y	44:03	0.89	2660			-	-	*	
PCB-181	*	*	n	NotFnd	0.82	*			988	1010	1.23	
PCB-177	2.38e+07	1.05	y	44:20	0.74	1900			-	-	*	
PCB-171	1.29e+07	1.04	y	44:36	0.82	923			-	-	*	
PCB-173	1.06e+06	1.13	y	45:01	0.73	85.8			-	-	*	
PCB-172	6.73e+06	1.07	y	45:24	0.75	534			-	-	*	
PCB-192	*	*	n	NotFnd	0.96	*			988	1010	1.04	
PCB-180	8.25e+07	1.06	y	45:45	0.98	4970			-	-	*	
PCB-193	5.08e+06	1.04	y	45:55	1.05	286			-	-	*	
PCB-191	2.20e+06	1.04	y	46:08	0.97	134			-	-	*	
PCB-170	4.01e+07	1.05	y	47:02	0.64	3680			-	-	*	
PCB-190	9.80e+06	1.04	y	47:12	0.88	656			-	-	*	
PCB-189	2.19e+06	1.06	y	48:25	1.10	129			-	-	*	
13C-PCB-189	3.08e+07	1.05	y	48:23	0.90	1850						93.3
PCB-202	2.46e+06	0.84	y	44:48	0.95	178			-	-	*	
PCB-201	1.80e+06	0.86	y	45:14	0.92	134			-	-	*	
PCB-204	*	*	n	NotFnd	0.92	*			688	703	1.02	
PCB-197	5.36e+05	0.88	y	45:39	0.93	39.7			-	-	*	
PCB-200	1.58e+06	0.88	y	46:23	0.88	123			-	-	*	
PCB-198	4.43e+05	0.90	y	47:34	0.60	50.7			-	-	*	
PCB-199	9.27e+06	0.88	y	47:40	0.55	1150			-	-	*	
PCB-203	1.05e+07	0.88	y	47:55	0.64	1120			-	-	*	Co-elute PCB 196
PCB-196	1.05e+07	0.88	y	47:55	0.64	1120			-	-	*	Co-elute PCB 203
13C-PCB-202	2.89e+07	0.92	y	44:46	1.00	1560						78.6
13C-PCB-178	2.83e+07	1.07	y	42:18	0.84	1830						92.2
13C-PCB-138	3.67e+07	1.23	y	41:30	-	7.45						
PCB-195	4.08e+06	0.88	y	49:00	0.75	351			-	-	*	
PCB-194	1.15e+07	0.88	y	49:49	0.76	972			-	-	*	
PCB-205	7.53e+05	0.89	y	50:04	1.00	48.3			-	-	*	
13C-PCB-205	3.08e+07	0.92	y	50:03	1.27	1950						98.5
PCB-208	1.05e+06	1.33	y	49:08	0.93	73.7			-	-	*	
13C-PCB-208	3.05e+07	0.79	y	49:06	1.49	1640						82.8
PCB-207	5.26e+05	1.36	y	49:26	1.00	40.5			-	-	*	
PCB-206	3.28e+06	1.32	y	51:15	0.99	311			-	-	*	
13C-PCB-206	2.10e+07	0.80	y	51:15	1.02	1660						83.7
PCB-209	4.83e+06	1.18	y	52:27	1.06	333			-	-	*	
13C-PCB-209	2.72e+07	1.20	y	52:25	1.58	1390						70.1
13C-PCB-194	2.47e+07	0.91	y	49:48	-	9.34						

Analyst: _____ Date: 10/7/16

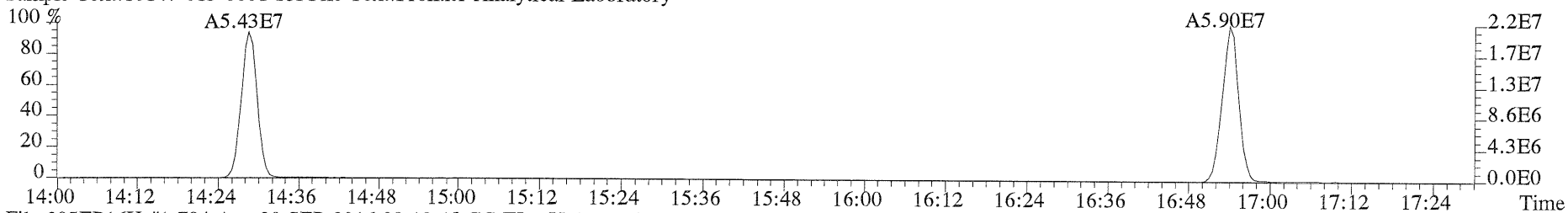
File:28SEP16Y #1-784 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:19 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



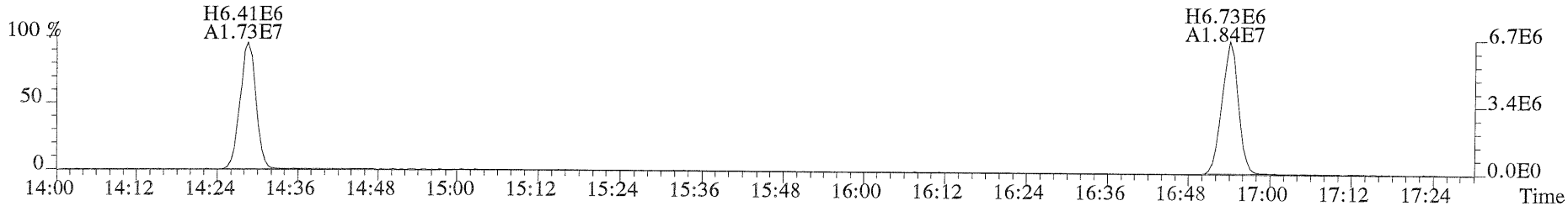
File:28SEP16Y #1-784 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:19 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



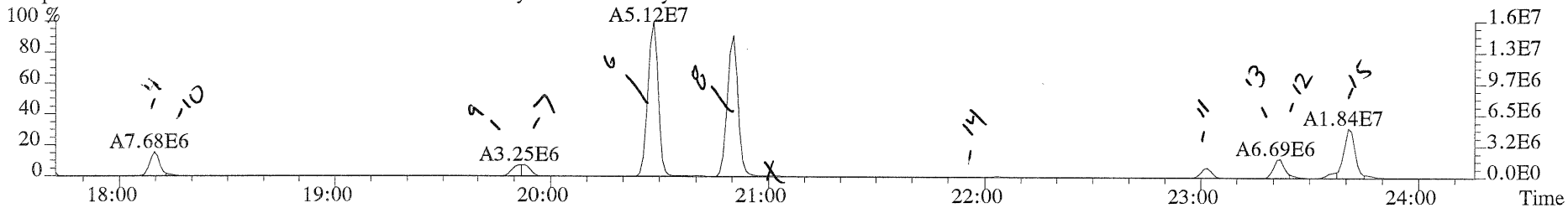
File:28SEP16Y #1-784 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:19 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



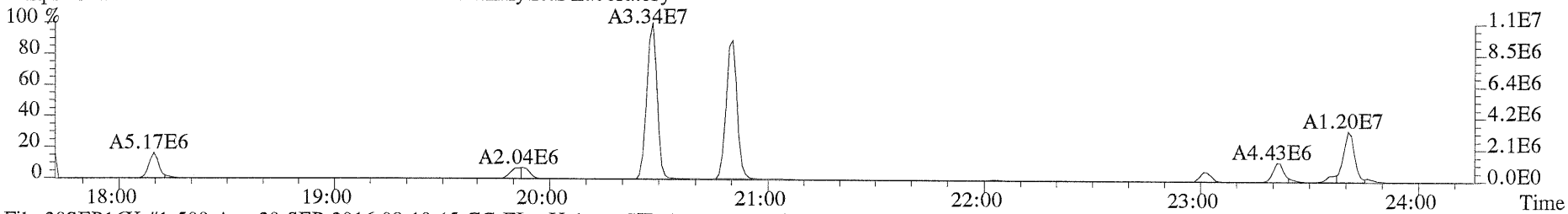
File:28SEP16Y #1-784 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:19 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



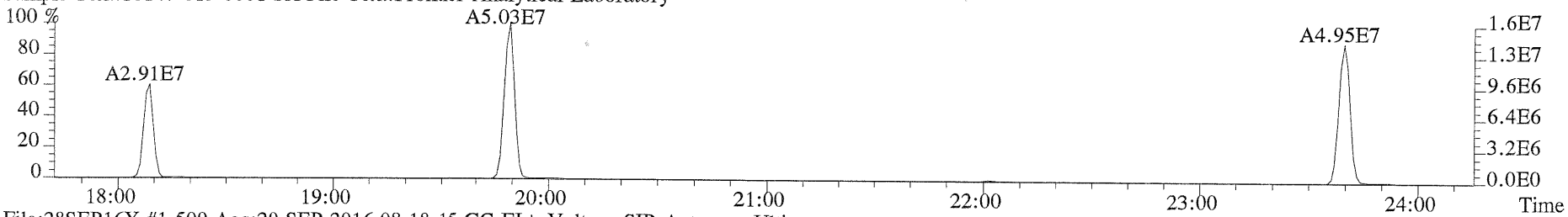
File:28SEP16Y #1-509 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



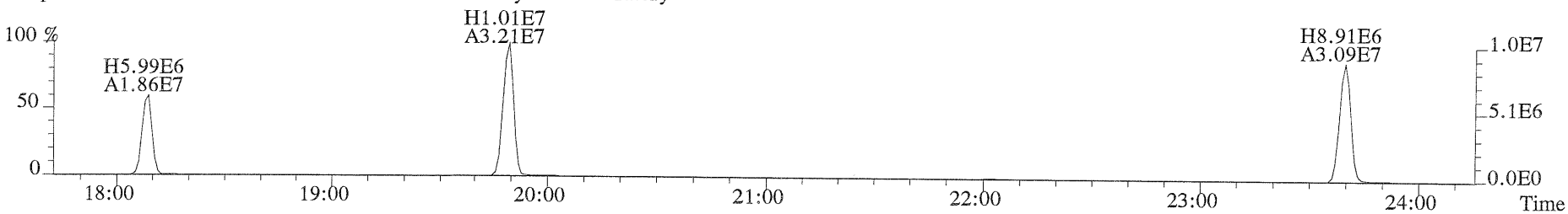
File:28SEP16Y #1-509 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



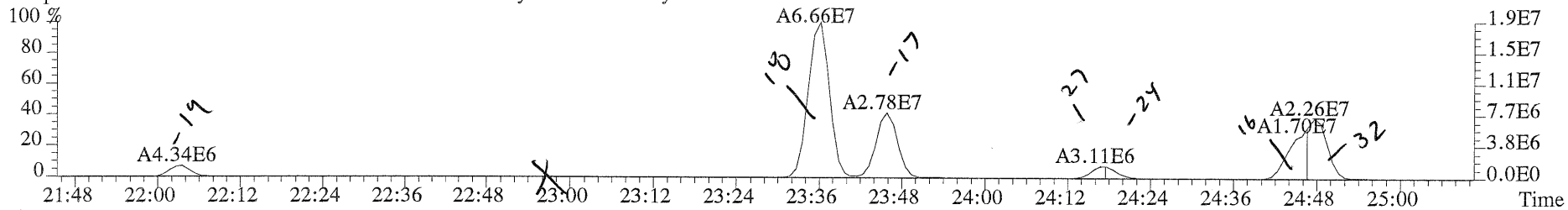
File:28SEP16Y #1-509 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



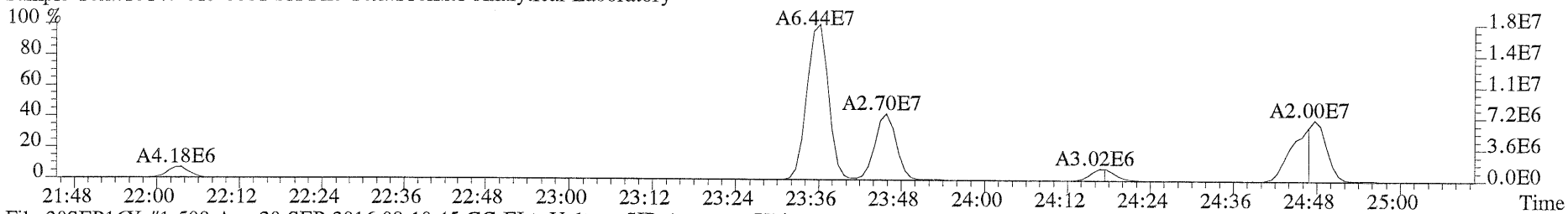
File:28SEP16Y #1-509 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



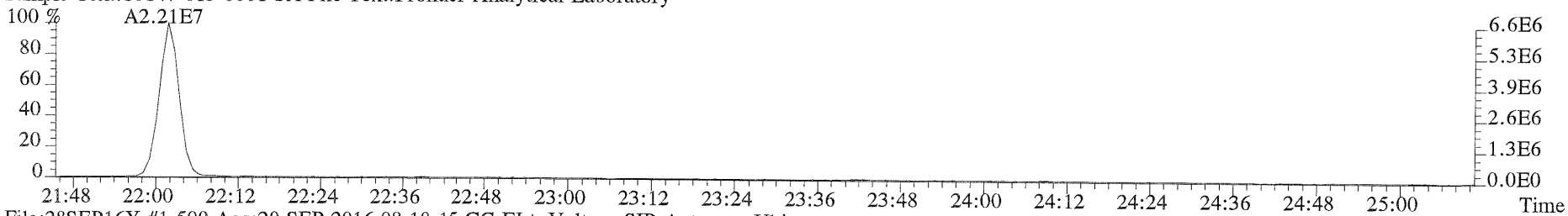
File:28SEP16Y #1-509 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



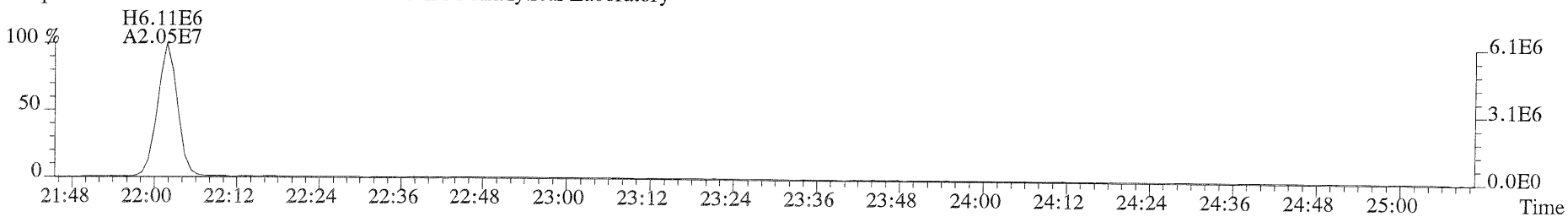
File:28SEP16Y #1-509 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



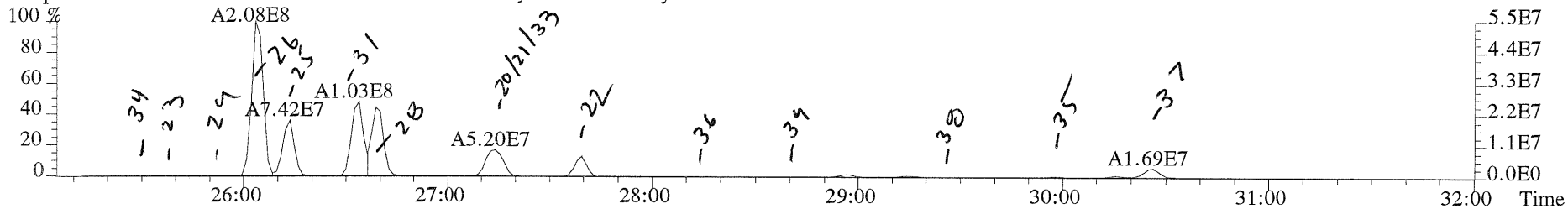
File:28SEP16Y #1-509 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



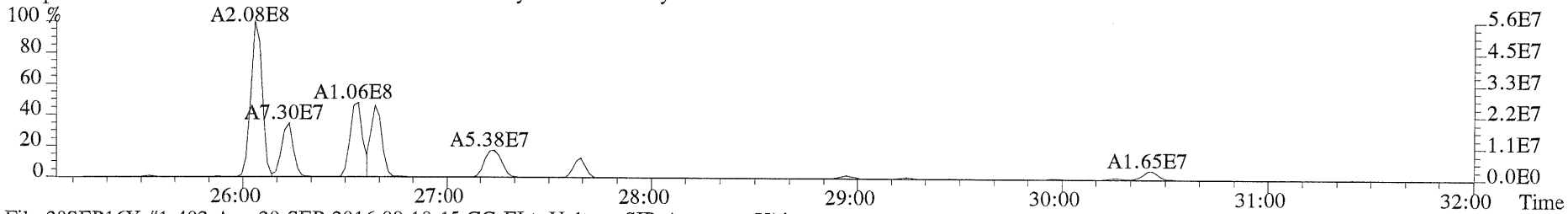
File:28SEP16Y #1-509 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:19 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



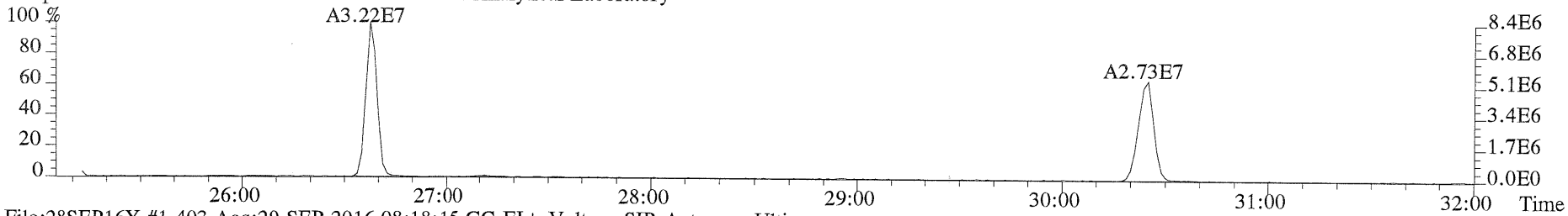
File:28SEP16Y #1-403 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



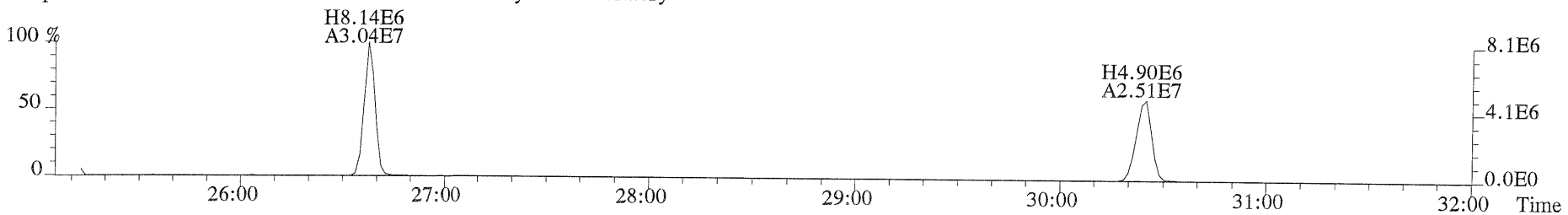
File:28SEP16Y #1-403 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



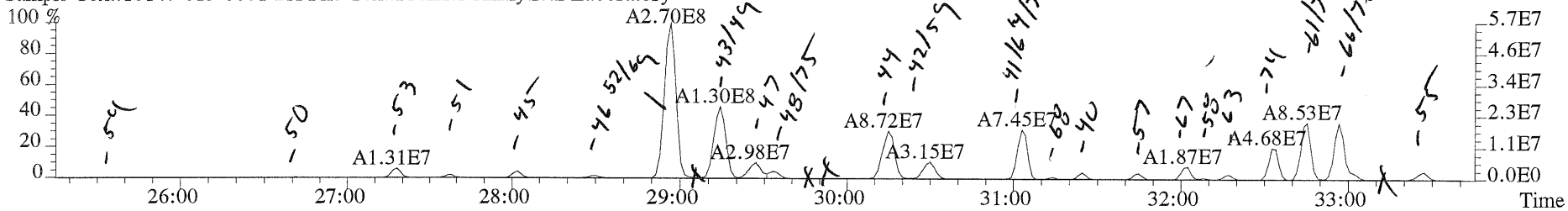
File:28SEP16Y #1-403 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



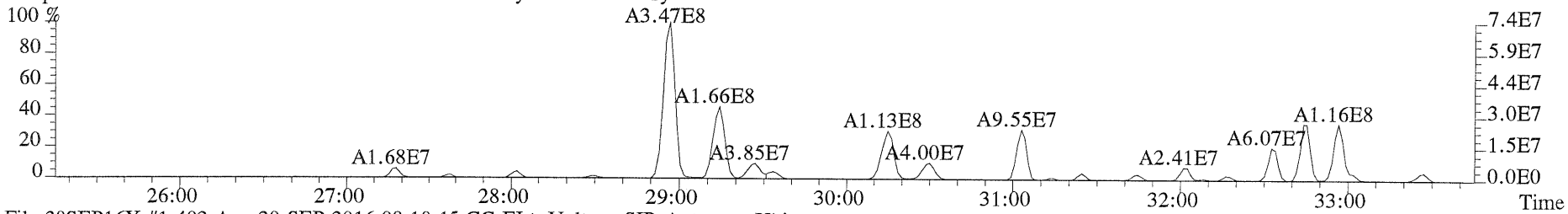
File:28SEP16Y #1-403 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



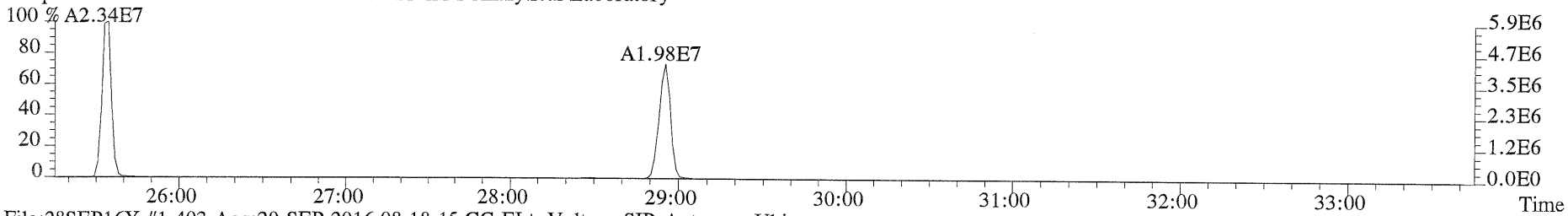
File:28SEP16Y #1-403 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



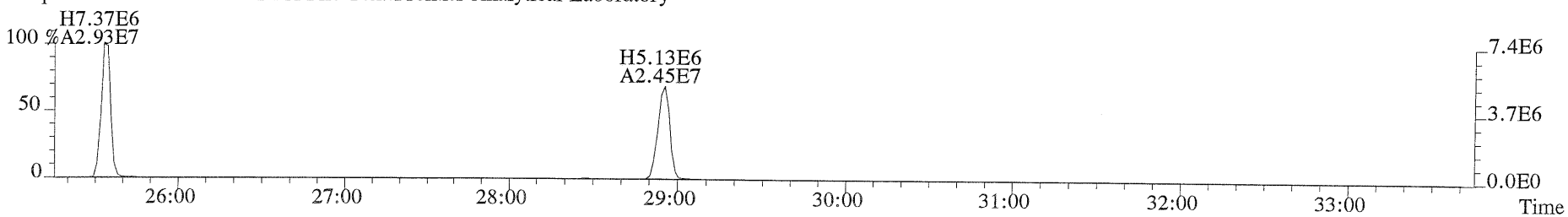
File:28SEP16Y #1-403 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



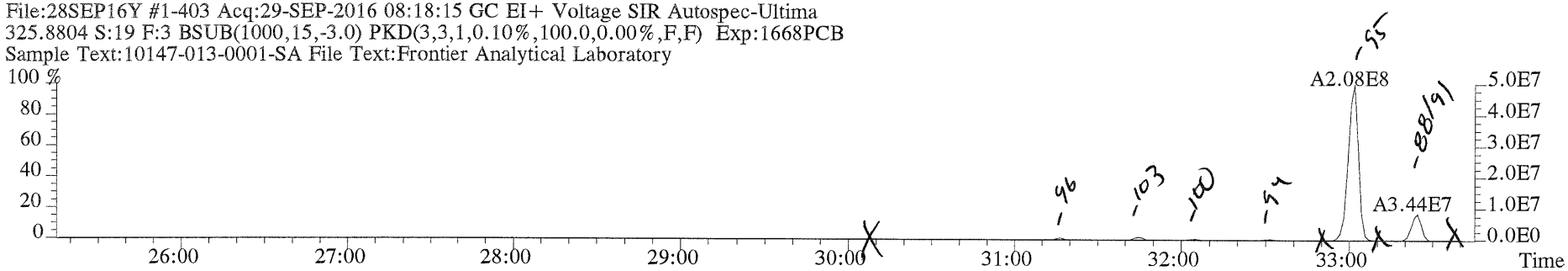
File:28SEP16Y #1-403 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



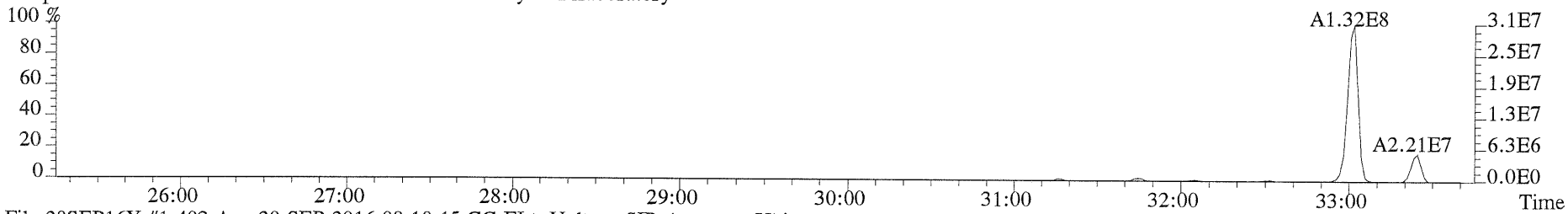
File:28SEP16Y #1-403 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



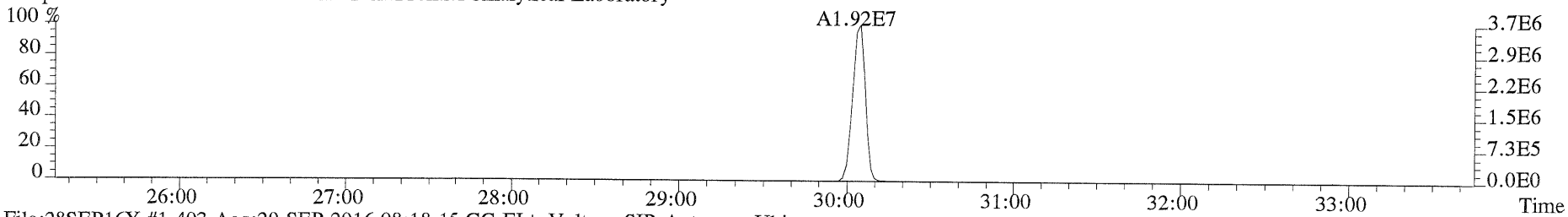
File:28SEP16Y #1-403 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



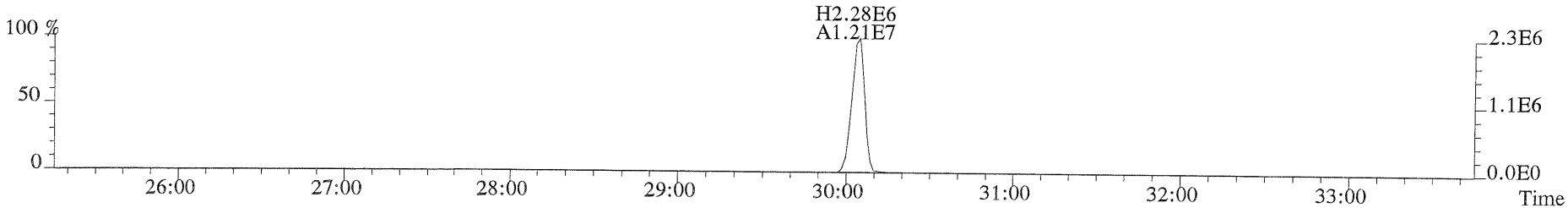
File:28SEP16Y #1-403 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



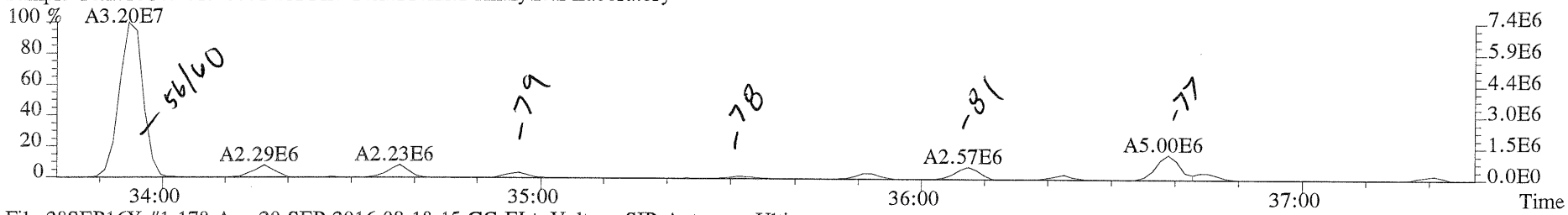
File:28SEP16Y #1-403 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



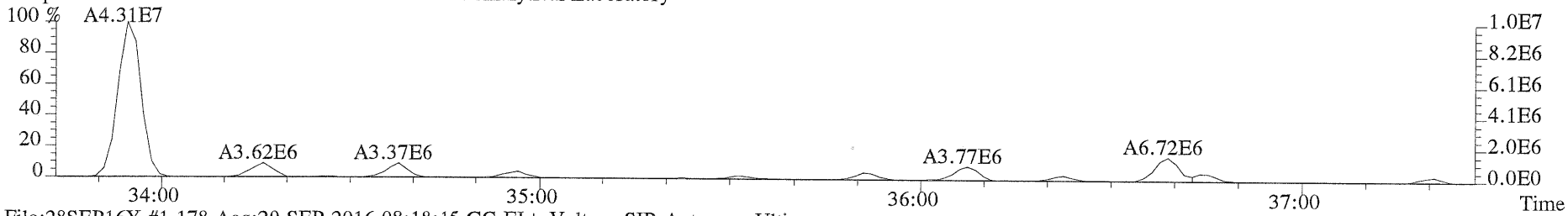
File:28SEP16Y #1-403 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:19 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



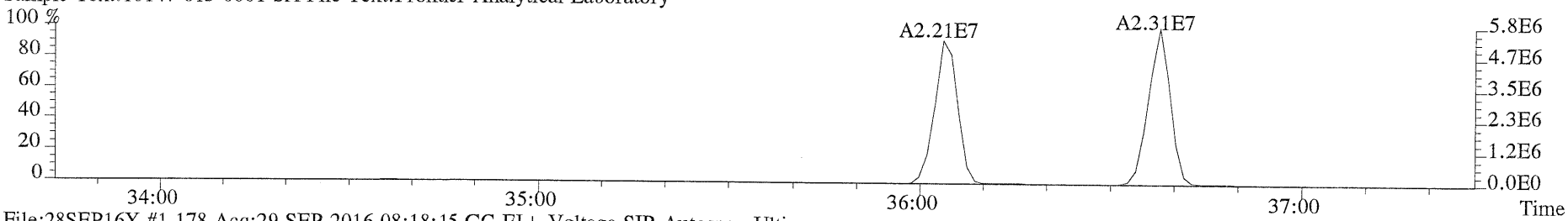
File:28SEP16Y #1-178 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:19 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



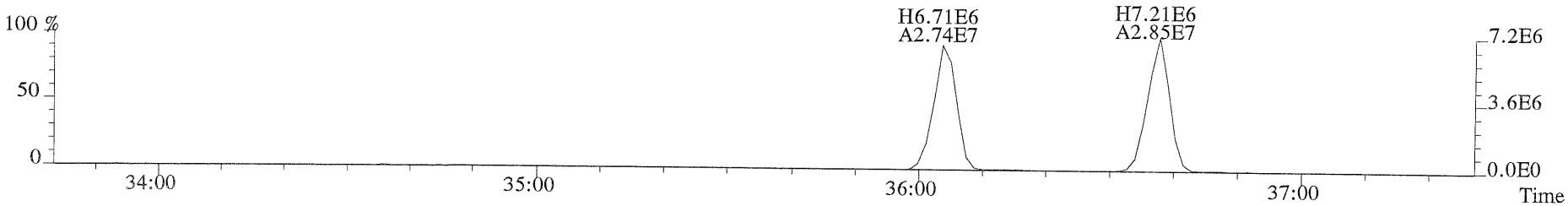
File:28SEP16Y #1-178 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:19 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



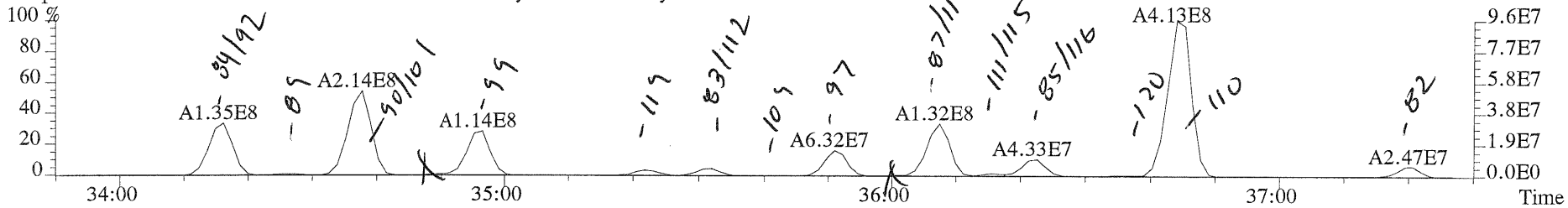
File:28SEP16Y #1-178 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:19 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



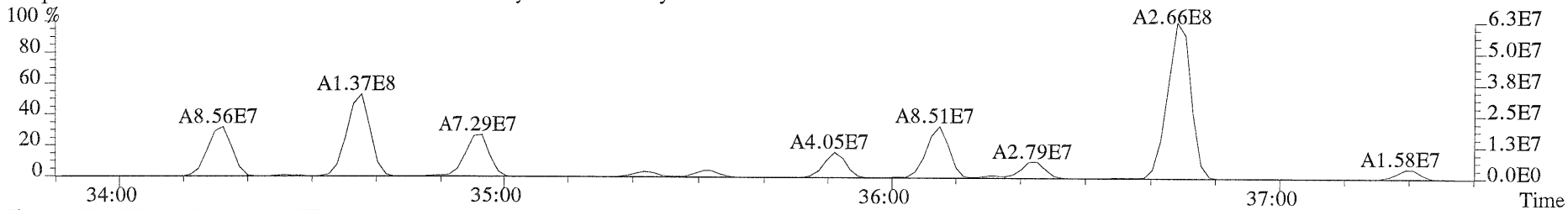
File:28SEP16Y #1-178 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:19 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



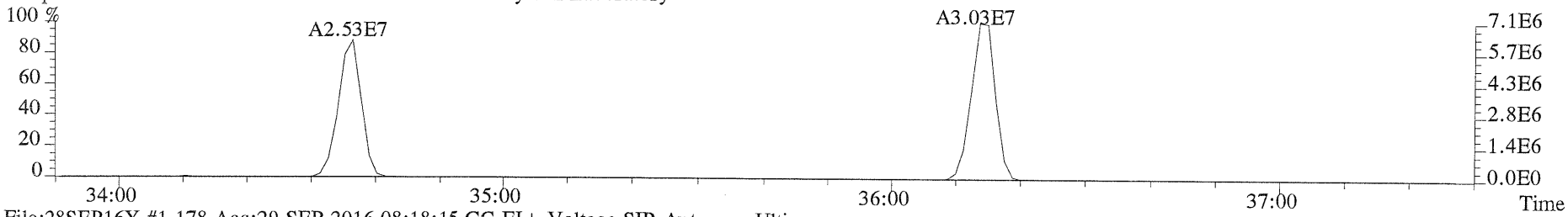
File:28SEP16Y #1-178 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



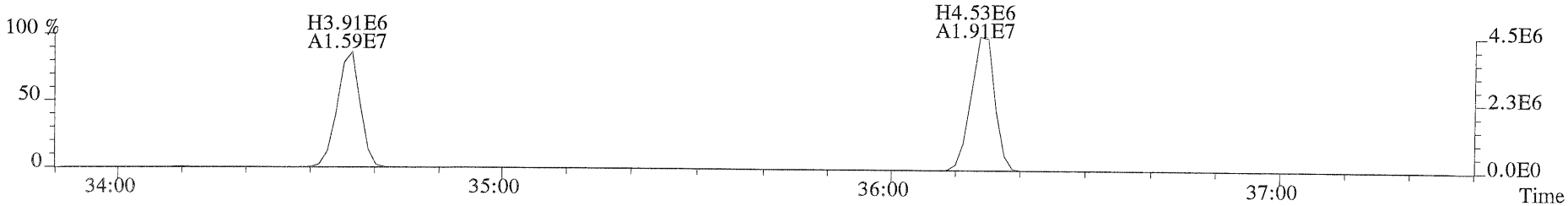
File:28SEP16Y #1-178 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



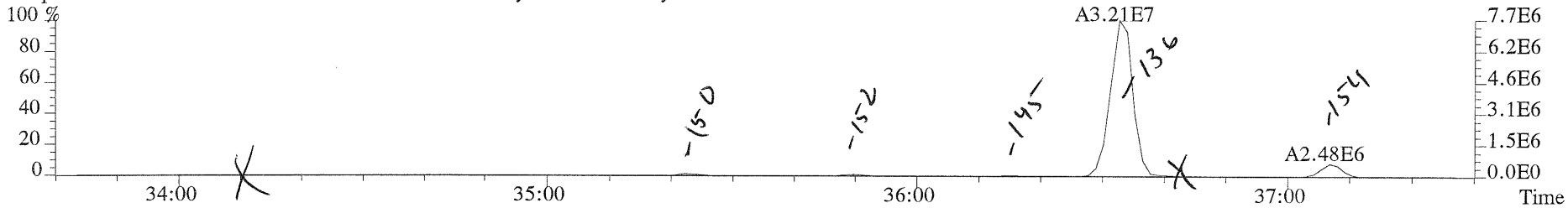
File:28SEP16Y #1-178 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



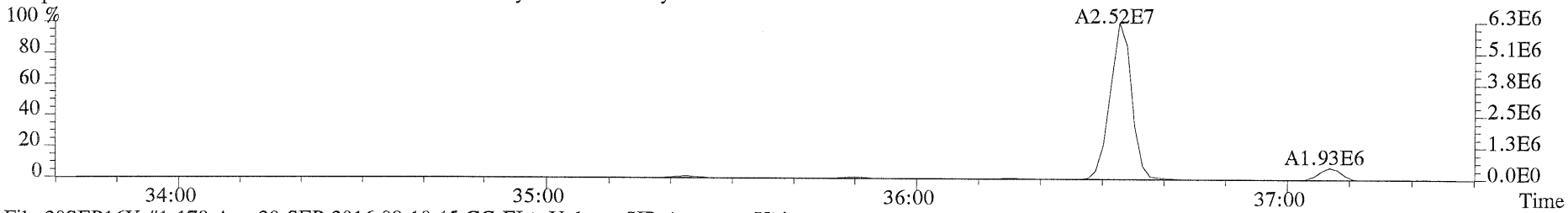
File:28SEP16Y #1-178 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



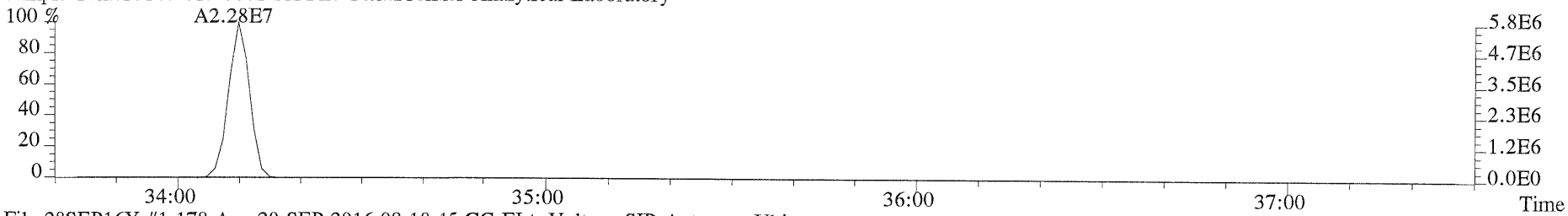
File:28SEP16Y #1-178 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



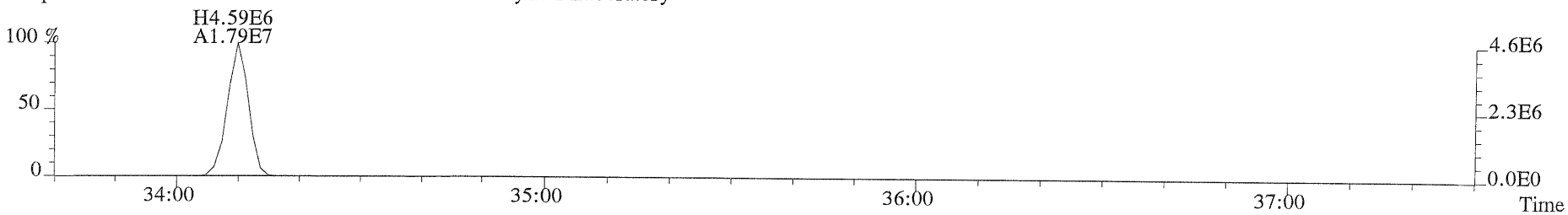
File:28SEP16Y #1-178 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



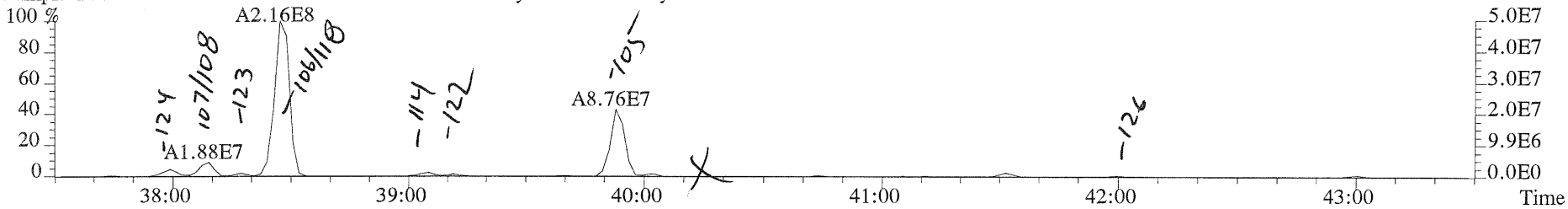
File:28SEP16Y #1-178 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



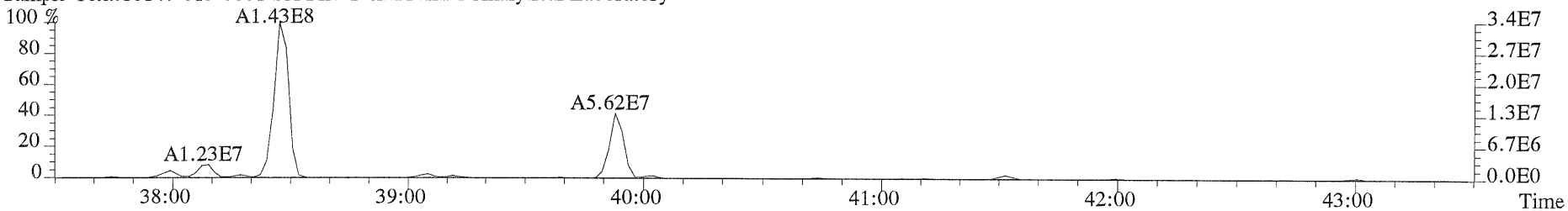
File:28SEP16Y #1-178 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:19 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



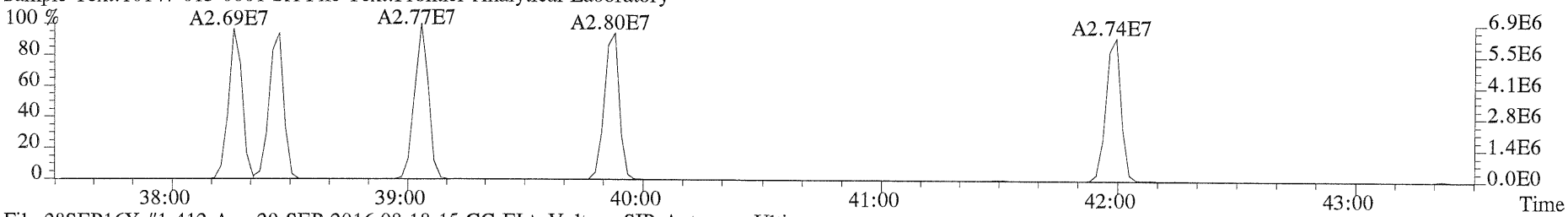
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



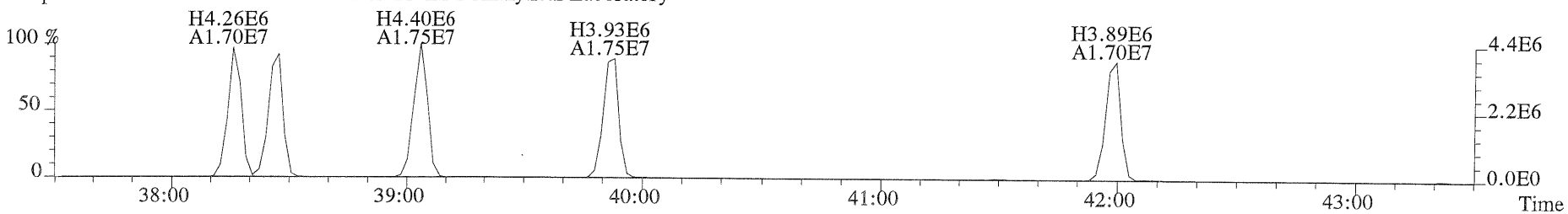
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



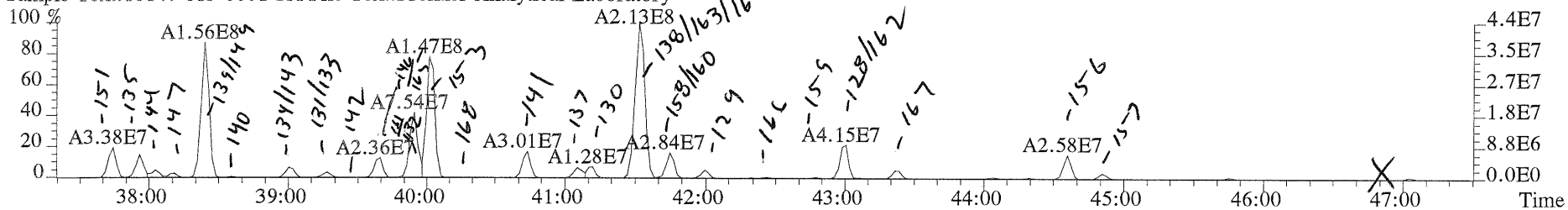
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



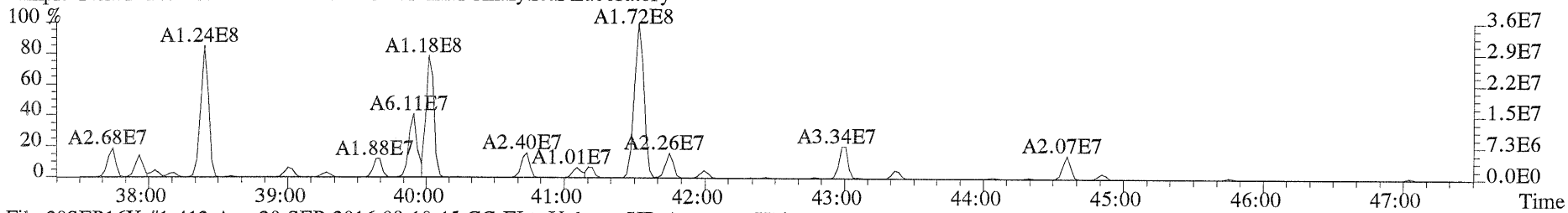
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



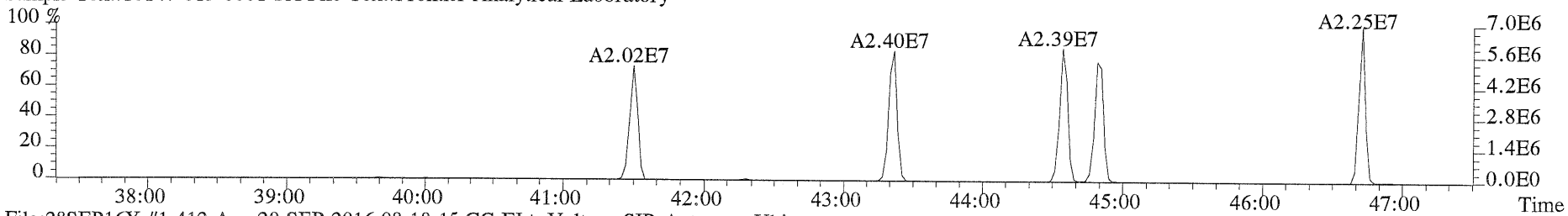
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



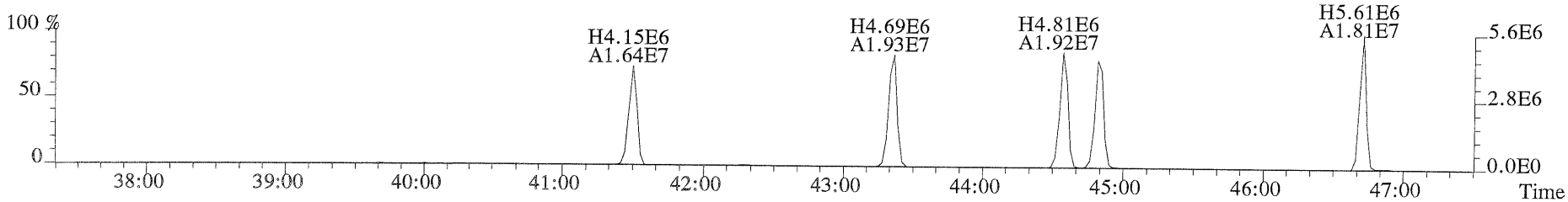
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



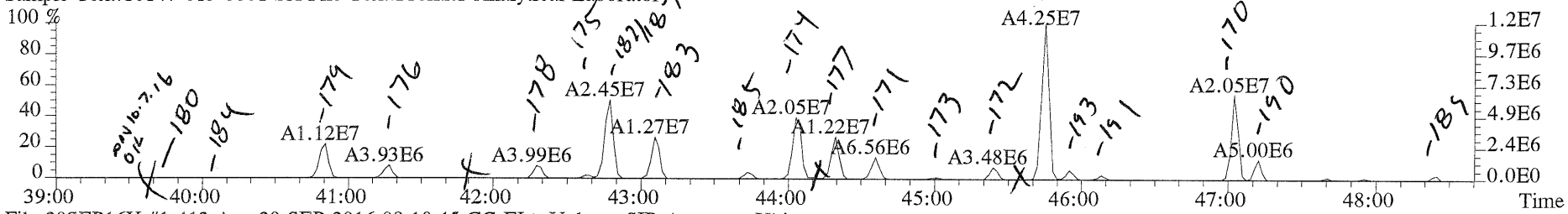
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



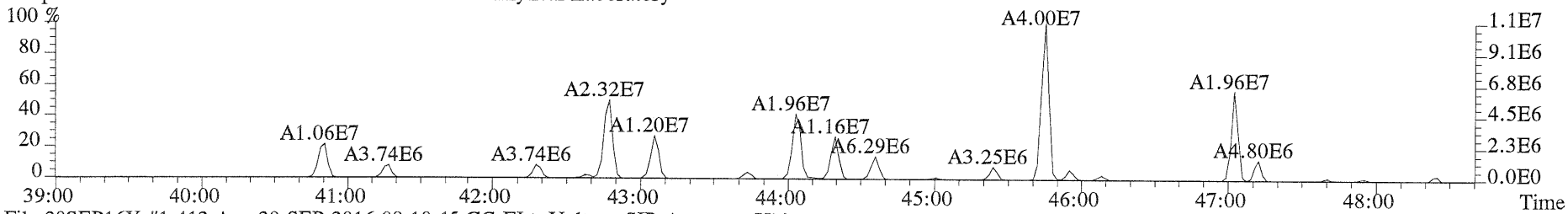
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



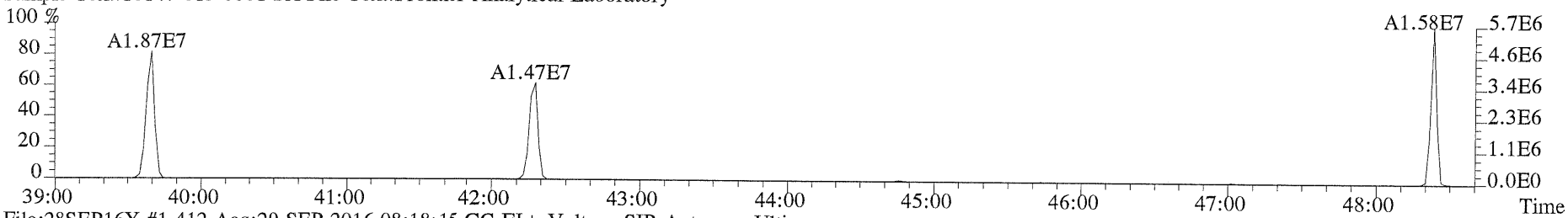
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



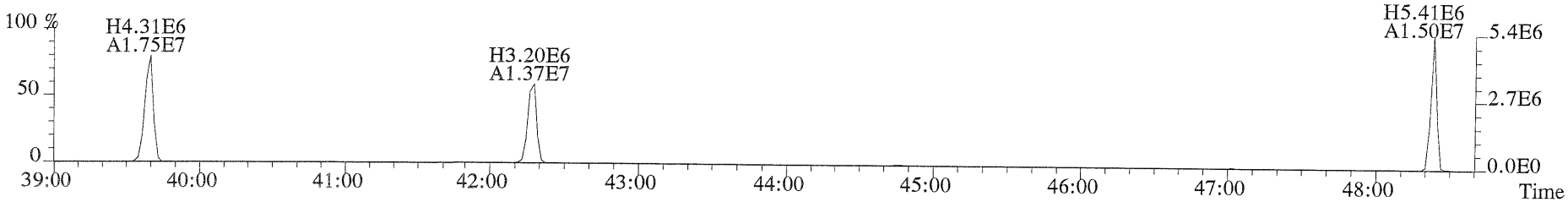
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



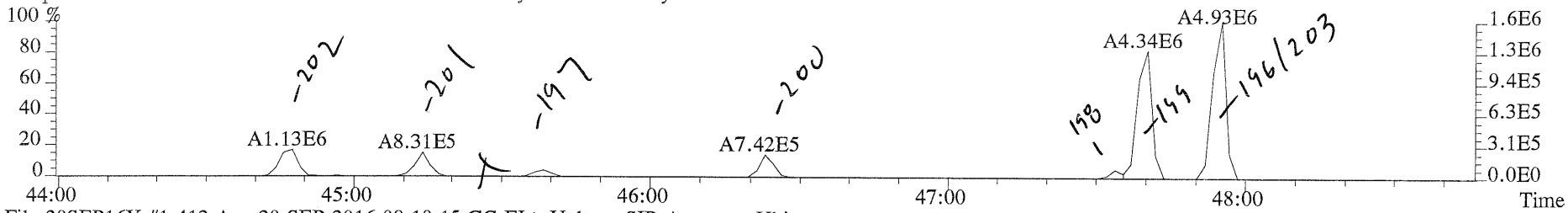
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



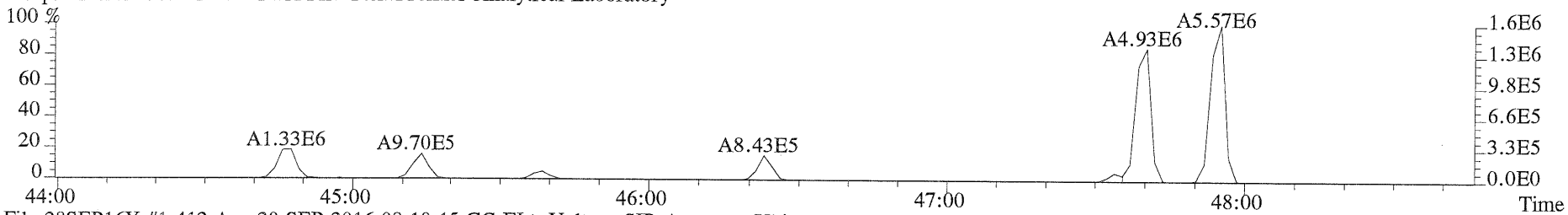
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:19 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



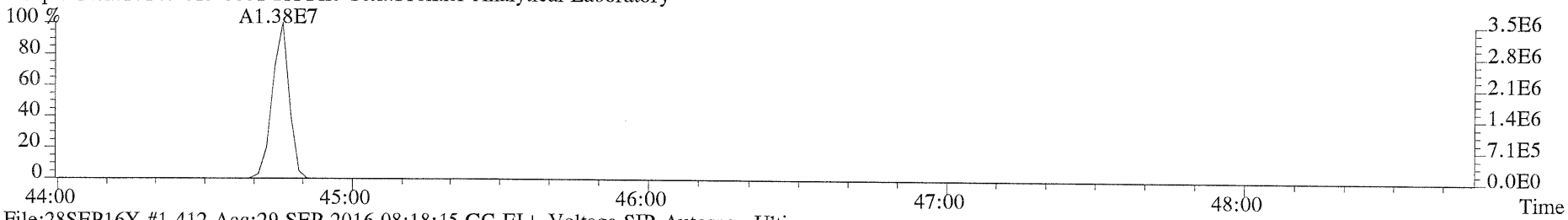
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:19 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



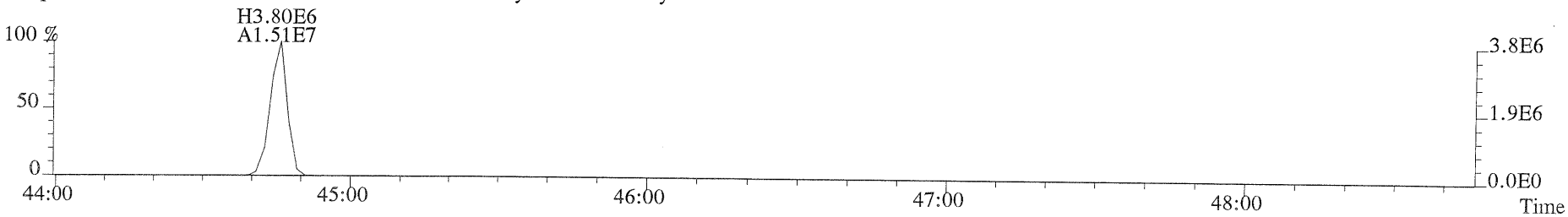
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:19 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



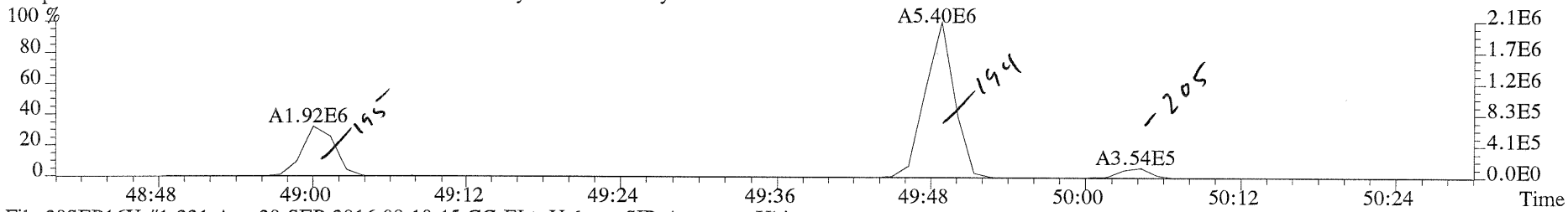
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:19 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



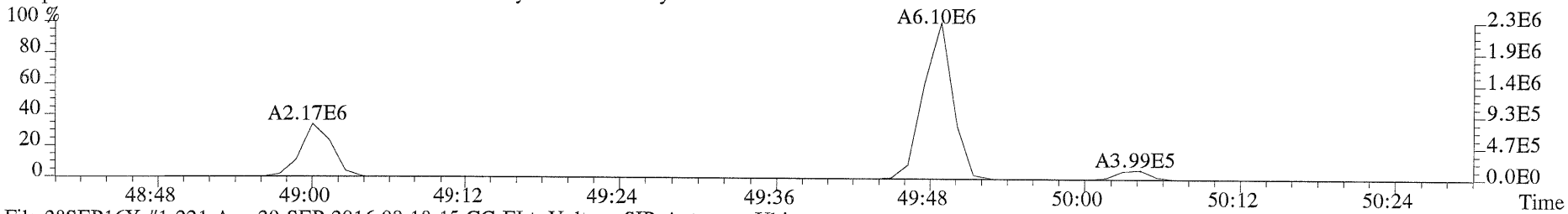
File:28SEP16Y #1-412 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:19 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



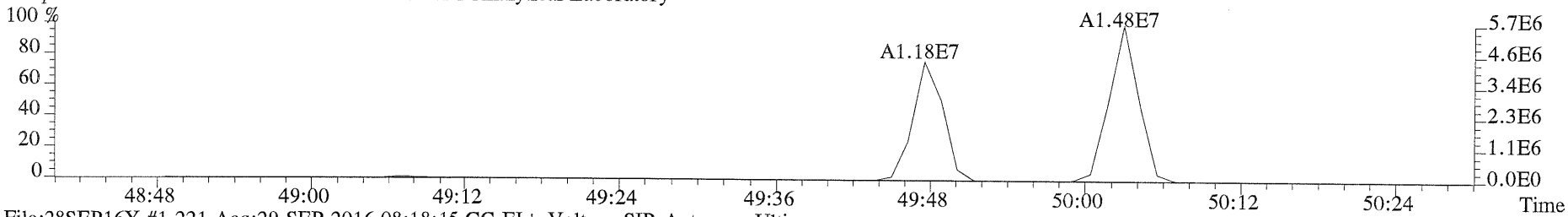
File:28SEP16Y #1-221 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:19 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



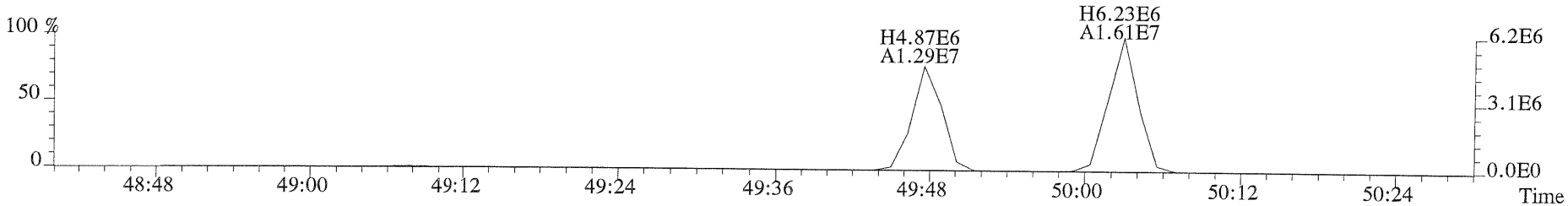
File:28SEP16Y #1-221 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:19 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



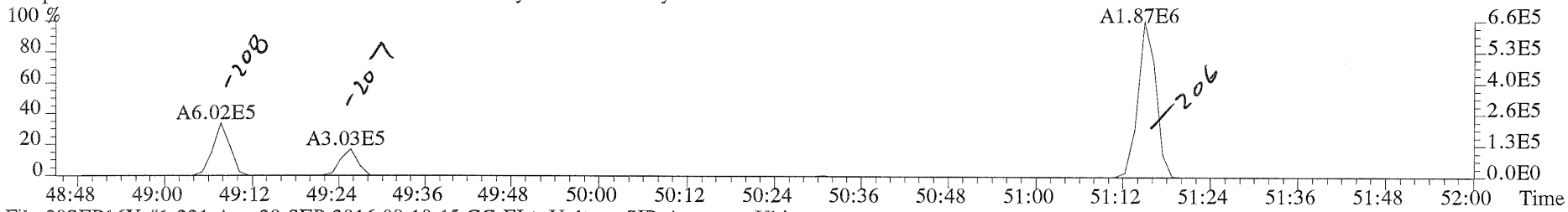
File:28SEP16Y #1-221 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:19 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



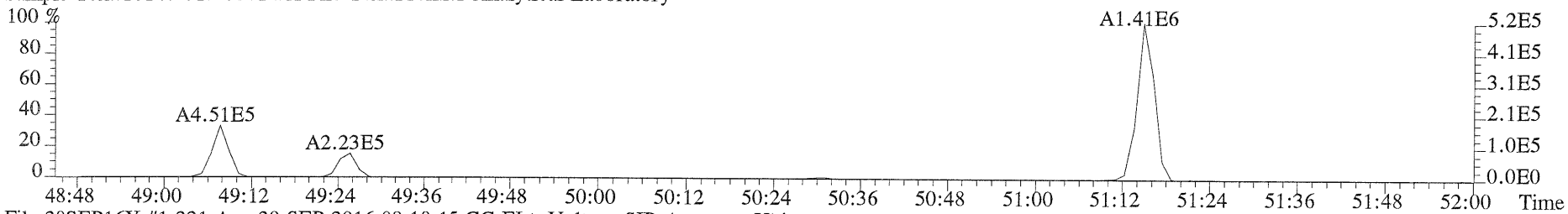
File:28SEP16Y #1-221 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:19 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



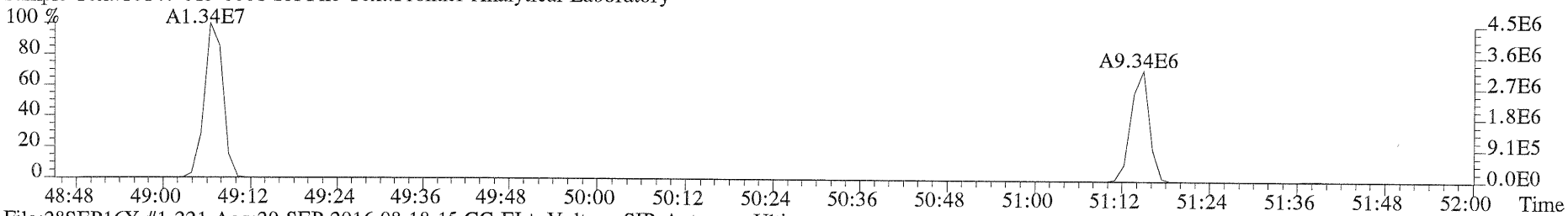
File:28SEP16Y #1-221 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:19 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



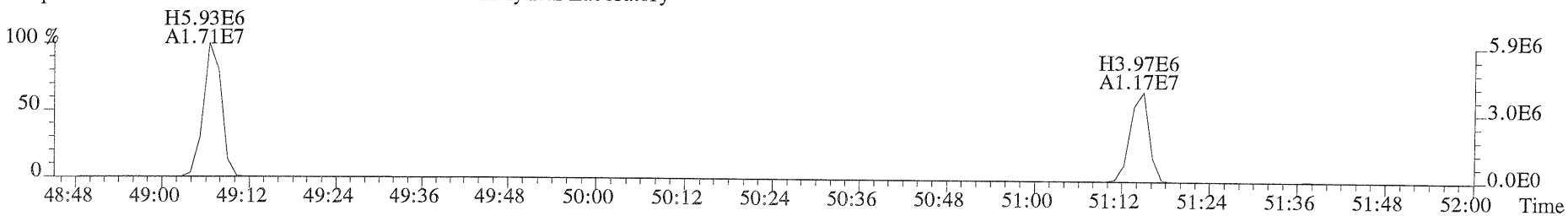
File:28SEP16Y #1-221 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:19 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



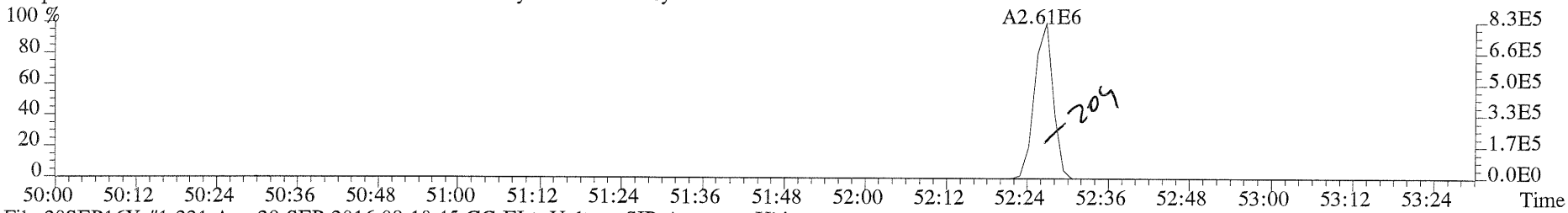
File:28SEP16Y #1-221 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:19 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



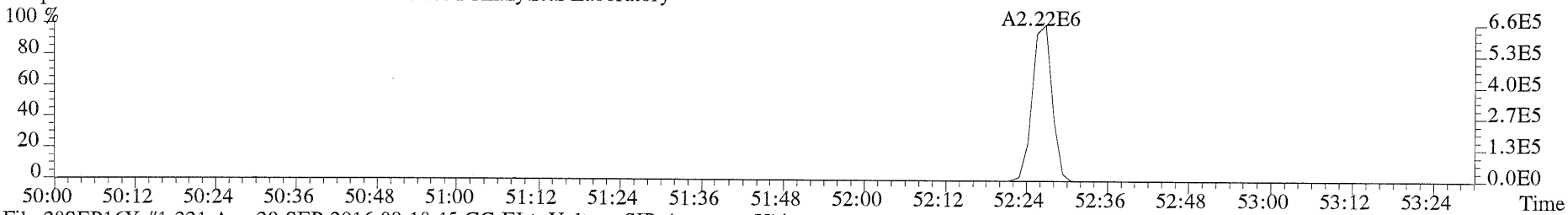
File:28SEP16Y #1-221 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:19 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



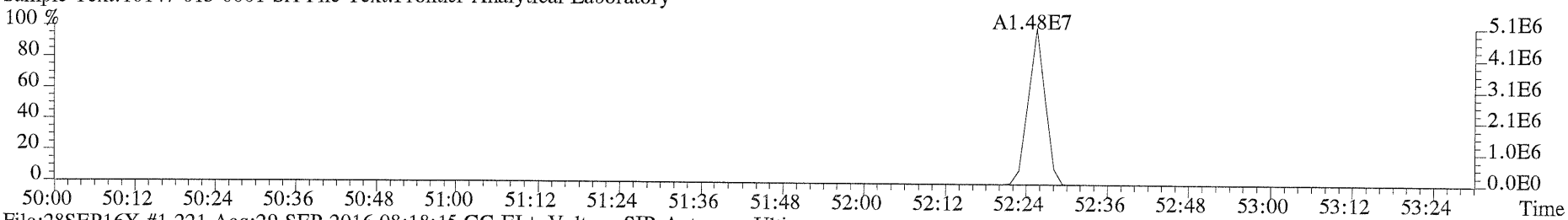
File:28SEP16Y #1-221 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:19 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



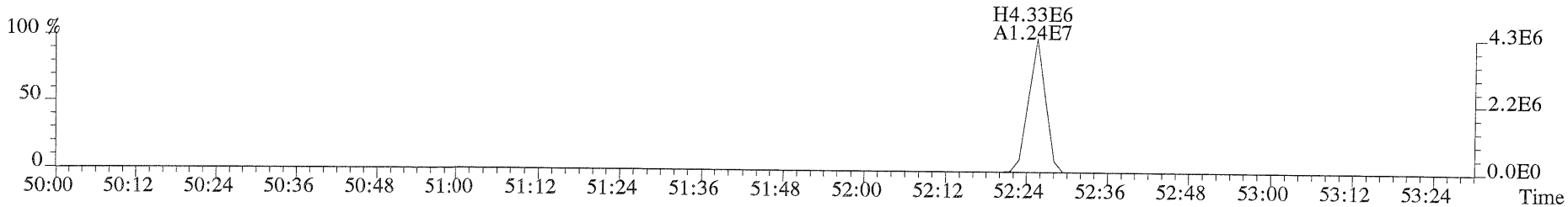
File:28SEP16Y #1-221 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:19 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:19 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 08:18:15 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:19 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-013-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10147-015-0001-SA Filename: 28SEP16Y Sam:20 Acquired: 29-SEP-16 09:14:45 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-IN-ENR-CA-CORE ConCal: ST092816Y2 EndCal: ST092816Y3
Results: 10147 GC Column: DB1 Amount: 5.070

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.79e+07	3.10 y	14:30	1.00	430		-	-	*	
13C-PCB-1	8.20e+07	3.18 y	14:29	1.29	1390					70.7
PCB-2	2.36e+06	2.98 y	16:43	0.91	58.3		-	-	*	
PCB-3	1.07e+07	3.10 y	16:56	0.96	237		-	-	*	
13C-PCB-3	9.26e+07	3.22 y	16:54	1.26	1610					81.7
PCB-4	6.62e+06	1.50 y	18:10	0.95	266		-	-	*	
PCB-10	8.46e+05	1.38 y	18:13	1.14	21.0		-	-	*	
13C-PCB-4	5.16e+07	1.58 y	18:09	0.64	1760					89.2
PCB-9	3.59e+06	1.56 y	19:52	1.21	84.1		-	-	*	
PCB-7	3.06e+06	1.51 y	19:54	1.16	74.7		-	-	*	
PCB-6	1.88e+07	1.54 y	20:29	1.14	468		-	-	*	
PCB-8	4.07e+07	1.56 y	20:51	1.15	1010		-	-	*	
PCB-5	*	* n	NotFnd	1.17	*		1900	1950	0.769	
PCB-14	*	* n	NotFnd	1.14	*		1900	1950	0.788	
PCB-11	2.53e+06	1.55 y	23:02	1.10	65.1		-	-	*	
PCB-13	5.63e+06	1.53 y	23:23	1.08	148		-	-	*	
PCB-12	1.14e+06	1.57 y	23:25	1.17	27.6		-	-	*	
PCB-15	2.44e+07	1.54 y	23:41	1.08	509		-	-	*	
13C-PCB-15	8.74e+07	1.60 y	23:40	1.00	1920					97.3
PCB-19	2.43e+06	1.06 y	22:03	1.04	97.7		-	-	*	
PCB-30	*	* n	NotFnd	1.45	*		1610	1620	0.784	
PCB-18	3.97e+07	1.04 y	23:37	1.01	1640		-	-	*	
PCB-17	1.78e+07	1.02 y	23:46	1.08	691		-	-	*	
PCB-27	2.31e+06	0.97 y	24:17	1.55	62.4		-	-	*	
PCB-24	1.97e+06	1.17 y	24:18	1.32	62.3		-	-	*	
PCB-16	1.28e+07	1.00 y	24:46	1.15	464		-	-	*	
PCB-32	1.43e+07	1.08 y	24:48	1.34	446		-	-	*	
13C-PCB-19	4.72e+07	1.08 y	22:02	0.66	1560					79.2
13C-PCB-9	9.01e+07	1.60 y	19:50	-	10.7					
PCB-34	1.03e+06	1.03 y	25:33	0.81	47.3		-	-	*	
PCB-23	9.90e+04	1.09 y	25:39	0.90	4.10		-	-	*	
PCB-29	5.22e+05	1.04 y	25:53	0.90	21.8		-	-	*	
PCB-26	1.69e+08	1.00 y	26:04	0.97	6530		-	-	*	
PCB-25	4.78e+07	1.01 y	26:13	1.21	1480		-	-	*	
PCB-31	9.69e+07	1.02 y	26:33	0.97	3720		-	-	*	
PCB-28	8.52e+07	1.03 y	26:40	1.08	2960		-	-	*	
PCB-20	5.34e+07	1.02 y	27:15	1.02	1960		-	-	*	Co-elute PCB 21/33
PCB-21	5.34e+07	1.02 y	27:15	1.02	1960		-	-	*	Co-elute PCB 20/33
PCB-33	5.34e+07	1.02 y	27:15	1.02	1960		-	-	*	Co-elute PCB 20/21
PCB-22	2.69e+07	1.03 y	27:39	1.08	934		-	-	*	
PCB-36	2.78e+05	1.11 y	28:15	0.96	10.8		-	-	*	
PCB-39	3.90e+05	1.11 y	28:41	1.00	14.6		-	-	*	
PCB-38	8.26e+05	0.99 y	29:28	0.91	33.8		-	-	*	
PCB-35	1.66e+06	1.10 y	29:58	1.01	61.1		-	-	*	
PCB-37	1.93e+07	1.01 y	30:26	1.08	671		-	-	*	
13C-PCB-37	5.27e+07	1.07 y	30:25	1.03	2100					107

PCB-54	1.79e+05	0.73	y	25:35	1.04	5.97		-	-	*	
PCB-50	3.78e+05	0.88	y	26:42	0.79	16.6		-	-	*	
PCB-53	1.32e+07	0.78	y	27:18	0.80	574		-	-	*	
PCB-51	3.32e+06	0.80	y	27:38	0.84	138		-	-	*	
PCB-45	8.74e+06	0.78	y	28:02	0.72	423		-	-	*	
PCB-46	3.57e+06	0.79	y	28:30	0.69	179		-	-	*	
PCB-52	4.46e+08	0.78	y	28:58	0.99	15600		-	-	*	Co-elute PCB 69
PCB-69	4.46e+08	0.78	y	28:58	0.99	15600		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.07	*		1020	1160	0.653	
PCB-43	1.97e+08	0.78	y	29:15	0.79	8700		-	-	*	Co-elute PCB 49
PCB-49	1.97e+08	0.78	y	29:15	0.79	8700		-	-	*	Co-elute PCB 43
PCB-47	4.39e+07	0.77	y	29:27	1.07	1430		-	-	*	
PCB-48	1.62e+07	0.80	y	29:34	0.94	596		-	-	*	Co-elute PCB 75
PCB-75	1.62e+07	0.80	y	29:34	0.94	596		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*		1020	1160	0.704	
PCB-62	*	*	n	NotFnd	0.99	*		1020	1160	0.702	
PCB-44	1.40e+08	0.78	y	30:16	0.73	6600		-	-	*	
PCB-42	3.98e+07	0.78	y	30:30	0.98	1400		-	-	*	Co-elute PCB 59
PCB-59	3.98e+07	0.78	y	30:30	0.98	1400		-	-	*	Co-elute PCB 42
PCB-72	9.72e+07	0.77	y	31:07	1.09	3100		-	-	*	Co-elute PCB 41/71/64
PCB-41	9.72e+07	0.77	y	31:07	1.09	3100		-	-	*	Co-elute PCB 72/71/64
PCB-71	9.72e+07	0.77	y	31:07	1.09	3100		-	-	*	Co-elute PCB 72/41/64
PCB-64	9.72e+07	0.77	y	31:07	1.09	3100		-	-	*	Co-elute PCB 72/41/71
PCB-68	3.66e+06	0.76	y	31:15	1.12	113		-	-	*	
PCB-40	9.75e+06	0.79	y	31:25	0.63	533		-	-	*	
PCB-57	1.03e+07	0.77	y	31:46	1.08	331		-	-	*	
PCB-67	2.96e+07	0.72	y	32:02	1.07	958		-	-	*	
PCB-58	*	*	n	NotFnd	1.08	*		1020	1160	0.644	
PCB-63	1.07e+07	0.79	y	32:17	1.08	344		-	-	*	
PCB-74	9.31e+07	0.78	y	32:34	1.18	2730		-	-	*	
PCB-61	2.97e+08	0.78	y	32:46	1.15	8930		-	-	*	Co-elute PCB 70
PCB-70	2.97e+08	0.78	y	32:46	1.15	8930		-	-	*	Co-elute PCB 61
PCB-76	2.06e+08	0.78	y	32:58	1.13	6290		-	-	*	Co-elute PCB 66
PCB-66	2.06e+08	0.78	y	32:58	1.13	6290		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.27	*		1020	1160	0.549	
PCB-55	1.72e+07	0.78	y	33:27	1.13	529		-	-	*	
13C-PCB-54	5.69e+07	0.80	y	25:34	1.09	2130					108
PCB-104	*	*	n	NotFnd	1.13	*		699	722	0.994	
PCB-96	2.18e+06	1.58	y	31:18	1.06	125		-	-	*	
PCB-103	5.45e+06	1.56	y	31:46	0.88	374		-	-	*	
PCB-100	2.27e+06	1.52	y	32:06	0.87	158		-	-	*	
PCB-94	1.76e+06	1.56	y	32:31	0.74	143		-	-	*	
PCB-98	*	*	n	NotFnd	1.06	*		699	722	1.06	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	1.06	*		699	722	1.06	Co-elute PCB 98
PCB-95	3.94e+08	1.58	y	33:02	0.63	37500		-	-	*	
PCB-93	*	*	n	NotFnd	0.63	*		699	722	1.79	
PCB-88	6.38e+07	1.58	y	33:26	0.83	4640		-	-	*	Co-elute PCB 91
PCB-91	6.38e+07	1.58	y	33:26	0.83	4640		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.99	*		699	722	1.14	
13C-PCB-104	3.27e+07	1.60	y	30:05	0.98	1360					69.2
13C-PCB-28	7.25e+07	1.08	y	26:39	1.01	2930	A				149
13C-PCB-52	4.82e+07	0.80	y	28:55	-	8.00					

PCB-56	7.44e+07	0.73	y	33:56	0.89	3050		-	-	*	Co-elute PCB 60
PCB-60	7.44e+07	0.73	y	33:56	0.89	3050		-	-	*	Co-elute PCB 56
PCB-79	5.74e+06	0.72	y	34:58	1.00	209		-	-	*	
PCB-78	1.76e+06	0.66	y	35:32	0.97	66.1		-	-	*	
PCB-81	9.23e+06	0.67	y	36:08	1.07	320		-	-	*	
13C-PCB-81	5.31e+07	0.81	y	36:05	0.96	2500					127
PCB-77	1.36e+07	0.75	y	36:40	1.01	486		-	-	*	
13C-PCB-77	5.48e+07	0.81	y	36:39	1.02	2430					123
PCB-155	*	*	n	NotFnd	1.05	*		789	811	0.689	
PCB-150	7.88e+05	1.24	y	35:23	0.96	36.9		-	-	*	
PCB-152	6.59e+05	1.28	y	35:51	0.94	31.5		-	-	*	
PCB-145	2.66e+05	1.32	y	36:16	0.94	12.8		-	-	*	
PCB-136	7.17e+07	1.28	y	36:34	0.94	3420		-	-	*	
PCB-148	*	*	n	NotFnd	0.68	*		789	811	1.07	
PCB-154	5.66e+06	1.25	y	37:08	0.80	318		-	-	*	
13C-PCB-155	4.39e+07	1.28	y	34:11	1.15	1730					87.6
13C-PCB-111	5.20e+07	1.58	y	36:15	1.14	2060					105
13C-PCB-101	4.35e+07	1.58	y	34:36	-	7.56					
PCB-84	2.54e+08	1.56	y	34:16	0.87	11900		-	-	*	Co-elute PCB 92
PCB-92	2.54e+08	1.56	y	34:16	0.87	11900		-	-	*	Co-elute PCB 84
PCB-89	4.10e+06	1.49	y	34:27	0.86	194		-	-	*	
PCB-90	5.67e+08	1.56	y	34:39	0.98	23700		-	-	*	Co-elute PCB 101
PCB-101	5.67e+08	1.56	y	34:39	0.98	23700		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.12	*		1200	1300	0.960	
PCB-99	2.68e+08	1.55	y	34:58	1.06	10300		-	-	*	
PCB-119	2.34e+07	1.56	y	35:23	1.26	759		-	-	*	
PCB-83	3.34e+07	1.57	y	35:32	1.00	1360		-	-	*	Co-elute PCB 112
PCB-112	3.34e+07	1.57	y	35:32	1.00	1360		-	-	*	Co-elute PCB 83
PCB-109	1.54e+05	1.55	y	35:42	1.13	5.60		-	-	*	
PCB-97	1.61e+08	1.56	y	35:52	1.06	6210		-	-	*	
PCB-86	6.20e+05	1.51	y	36:01	0.88	28.7		-	-	*	
PCB-125	2.69e+08	1.54	y	36:08	1.13	9700		-	-	*	Co-elute PCB 87/117
PCB-87	2.69e+08	1.54	y	36:08	1.13	9700		-	-	*	Co-elute PCB 125/117
PCB-117	2.69e+08	1.54	y	36:08	1.13	9700		-	-	*	Co-elute PCB 125/87
PCB-111	1.11e+07	1.52	y	36:17	1.45	314		-	-	*	Co-elute PCB 115
PCB-115	1.11e+07	1.52	y	36:17	1.45	314		-	-	*	Co-elute PCB 111
PCB-85	9.00e+07	1.55	y	36:24	1.02	3610		-	-	*	Co-elute PCB 116
PCB-116	9.00e+07	1.55	y	36:24	1.02	3610		-	-	*	Co-elute PCB 85
PCB-120	3.59e+06	1.53	y	36:37	1.34	110		-	-	*	
PCB-110	8.68e+08	1.56	y	36:45	1.30	27400		-	-	*	
PCB-82	5.13e+07	1.56	y	37:20	0.75	2790		-	-	*	
PCB-124	2.50e+07	1.53	y	38:00	0.99	1030		-	-	*	
PCB-108	5.13e+07	1.55	y	38:10	0.95	2210		-	-	*	Co-elute PCB 107
PCB-107	5.13e+07	1.55	y	38:10	0.95	2210		-	-	*	Co-elute PCB 108
PCB-123	8.86e+06	1.51	y	38:18	1.08	337		-	-	*	
13C-PCB-123	4.78e+07	1.59	y	38:17	0.97	2540					129
PCB-118	6.07e+08	1.52	y	38:28	0.91	26900		-	-	*	Co-elute PCB 106
PCB-106	6.07e+08	1.52	y	38:28	0.91	26900		-	-	*	Co-elute PCB 118
13C-PCB-118	4.90e+07	1.60	y	38:27	1.06	2400					121
PCB-114	1.39e+07	1.52	y	39:06	0.97	585		-	-	*	
13C-PCB-114	4.85e+07	1.60	y	39:04	1.04	2420					123
PCB-122	6.77e+06	1.54	y	39:13	0.95	292		-	-	*	
PCB-105	2.39e+08	1.55	y	39:54	0.94	10500		-	-	*	
13C-PCB-105	4.79e+07	1.59	y	39:54	1.03	2400					122

FAL ID: 10147-015-0001-SA Filename: 28SEP16Y Sam:20 Acquired: 29-SEP-16 09:14:45 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-IN-ENR-CA-CORE ConCal: ST092816Y2 EndCal: ST092816Y3
Results: 10147 GC Column: DB1 Amount: 5.070

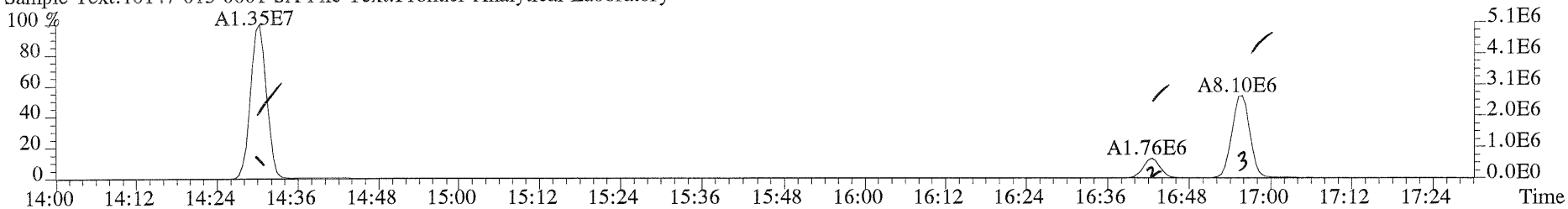
PCB-127	*	*	n	NotFnd	0.86	*	855	888	0.873		
PCB-126	2.86e+06	1.48	y	42:01	0.98	124	-	-	*		
13C-PCB-126	4.66e+07	1.61	y	42:01	0.91	2640				134	
PCB-151	7.79e+07	1.26	y	37:45	0.82	4240	-	-	*		
PCB-135	5.77e+07	1.25	y	37:57	0.88	2920	-	-	*		
PCB-144	1.98e+07	1.27	y	38:04	0.82	1080	-	-	*		
PCB-147	1.28e+07	1.25	y	38:12	0.86	663	-	-	*		
PCB-139	3.57e+08	1.25	y	38:25	0.90	17600	-	-	*	Co-elute PCB 149	
PCB-149	3.57e+08	1.25	y	38:25	0.90	17600	-	-	*	Co-elute PCB 139	
PCB-140	3.47e+06	1.22	y	38:36	0.83	185	-	-	*		
PCB-143	2.98e+07	1.25	y	39:01	0.82	1610	-	-	*	Co-elute PCB 134	
PCB-134	2.98e+07	1.25	y	39:01	0.82	1610	-	-	*	Co-elute PCB 143	
PCB-131	1.43e+07	1.19	y	39:18	0.83	767	-	-	*	Co-elute PCB 133	
PCB-133	1.43e+07	1.19	y	39:18	0.83	767	-	-	*	Co-elute PCB 131	
PCB-142	9.49e+04	1.41	y	39:28	0.71	5.97	-	-	*		
PCB-165	6.74e+07	1.23	y	39:41	0.97	3090	-	-	*	Co-elute PCB 146	
PCB-146	6.74e+07	1.23	y	39:41	0.97	3090	-	-	*	Co-elute PCB 165	
PCB-161	1.86e+08	1.24	y	39:56	0.92	8970	-	-	*	Co-elute PCB 132	
PCB-132	1.86e+08	1.24	y	39:56	0.92	8970	-	-	*	Co-elute PCB 161	
PCB-153	3.86e+08	1.24	y	40:02	0.95	18100	-	-	*		
PCB-168	7.60e+05	1.30	y	40:15	1.05	32.0	-	-	*		
PCB-141	7.53e+07	1.23	y	40:45	0.81	4110	-	-	*		
PCB-137	3.20e+07	1.23	y	41:06	0.76	1880	-	-	*		
PCB-130	3.06e+07	1.26	y	41:11	0.74	1830	-	-	*		
PCB-138	5.61e+08	1.25	y	41:33	1.10	22700	-	-	*	Co-elute PCB 163/164	
PCB-163	5.61e+08	1.25	y	41:33	1.10	22700	-	-	*	Co-elute PCB 138/164	
PCB-164	5.61e+08	1.25	y	41:33	1.10	22700	-	-	*	Co-elute PCB 138/163	
PCB-158	7.22e+07	1.24	y	41:46	1.06	3030	-	-	*	Co-elute PCB 160	
PCB-160	7.22e+07	1.24	y	41:46	1.06	3030	-	-	*	Co-elute PCB 158	
PCB-129	2.36e+07	1.24	y	42:01	0.66	1580	-	-	*		
PCB-166	2.80e+06	1.26	y	42:27	0.99	126	-	-	*		
PCB-159	2.99e+06	1.31	y	42:48	1.05	126	-	-	*		
PCB-128	1.03e+08	1.24	y	43:00	0.90	5070	-	-	*	Co-elute PCB 162	
PCB-162	1.03e+08	1.24	y	43:00	0.90	5070	-	-	*	Co-elute PCB 128	
PCB-167	2.57e+07	1.24	y	43:25	0.94	1180	-	-	*		
13C-PCB-167	4.55e+07	1.24	y	43:23	1.12	2090				106	
PCB-156	7.18e+07	1.24	y	44:37	0.99	3140	-	-	*		
13C-PCB-156	4.55e+07	1.26	y	44:35	1.07	2200				112	
PCB-157	1.66e+07	1.24	y	44:52	0.94	769	-	-	*		
13C-PCB-157	4.50e+07	1.24	y	44:52	1.10	2120				108	
PCB-169	*	*	n	NotFnd	0.95	*	991	999	0.823		
13C-PCB-169	4.17e+07	1.25	y	46:44	0.98	2200				111	

FAL ID: 10147-015-0001-SA Filename: 28SEP16Y Sam:20 Acquired: 29-SEP-16 09:14:45 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-IN-ENR-CA-CORE ConCal: ST092816Y2 EndCal: ST092816Y3
Results: 10147 GC Column: DB1 Amount: 5.070

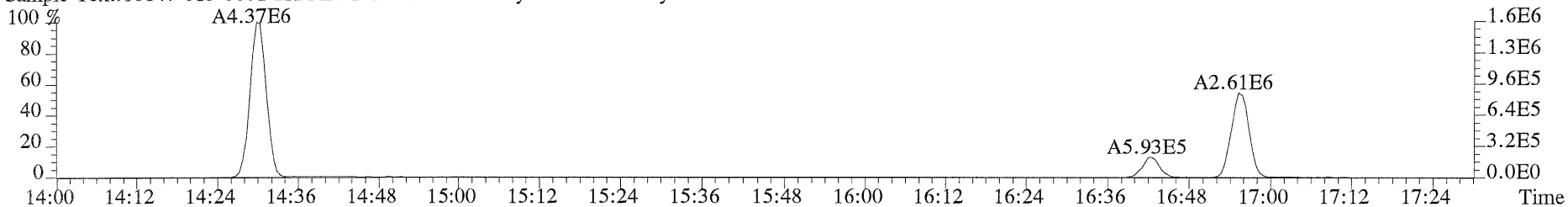
PCB-188	1.36e+05	1.12	y	39:41	1.11	5.88		-	-	*	
13C-PCB-188	4.11e+07	1.07	y	39:41	1.23	1720					87.3
PCB-184	7.72e+04	1.14	y	40:07	1.25	3.34	J	-	-	*	
PCB-179	2.80e+07	1.06	y	40:51	1.23	1240		-	-	*	
PCB-176	9.66e+06	1.03	y	41:18	1.19	439		-	-	*	
PCB-186	*	*	n	NotFnd	1.18	*		1010	1030	0.815	
PCB-178	9.65e+06	1.06	y	42:19	0.85	611		-	-	*	
PCB-175	2.40e+06	1.04	y	42:38	0.89	146		-	-	*	
PCB-187	6.07e+07	1.06	y	42:48	0.95	3460		-	-	*	Co-elute PCB 182
PCB-182	6.07e+07	1.06	y	42:48	0.95	3460		-	-	*	Co-elute PCB 187
PCB-183	3.14e+07	1.05	y	43:06	0.95	1790		-	-	*	
PCB-185	4.69e+06	1.10	y	43:44	0.86	296		-	-	*	
PCB-174	5.08e+07	1.05	y	44:04	0.89	3080		-	-	*	
PCB-181	*	*	n	NotFnd	0.82	*		1010	1030	1.17	
PCB-177	3.09e+07	1.06	y	44:21	0.74	2260		-	-	*	
PCB-171	1.72e+07	1.06	y	44:37	0.82	1130		-	-	*	
PCB-173	1.34e+06	1.02	y	45:02	0.73	99.7		-	-	*	
PCB-172	8.72e+06	1.05	y	45:25	0.75	632		-	-	*	
PCB-192	*	*	n	NotFnd	0.96	*		1010	1030	0.996	
PCB-180	1.10e+08	1.06	y	45:46	0.98	6050		-	-	*	
PCB-193	6.54e+06	1.04	y	45:56	1.05	336		-	-	*	
PCB-191	2.91e+06	1.10	y	46:09	0.97	162		-	-	*	
PCB-170	5.29e+07	1.06	y	47:03	0.64	4440		-	-	*	
PCB-190	1.31e+07	1.05	y	47:13	0.88	802		-	-	*	
PCB-189	2.86e+06	1.04	y	48:26	1.10	162		-	-	*	
13C-PCB-189	3.19e+07	1.05	y	48:24	0.90	1830					92.8
PCB-202	3.27e+06	0.88	y	44:48	0.95	217		-	-	*	
PCB-201	2.36e+06	0.92	y	45:15	0.92	160		-	-	*	
PCB-204	*	*	n	NotFnd	0.92	*		655	712	0.965	
PCB-197	6.88e+05	1.01	y	45:40	0.93	46.7		-	-	*	
PCB-200	2.09e+06	0.87	y	46:24	0.88	149		-	-	*	
PCB-198	6.07e+05	0.88	y	47:35	0.60	63.5		-	-	*	
PCB-199	1.22e+07	0.87	y	47:40	0.55	1380		-	-	*	
PCB-203	1.48e+07	0.87	y	47:56	0.64	1440		-	-	*	Co-elute PCB 196
PCB-196	1.48e+07	0.87	y	47:56	0.64	1440		-	-	*	Co-elute PCB 203
13C-PCB-202	3.14e+07	0.91	y	44:47	1.00	1620					82.0
13C-PCB-178	3.17e+07	1.08	y	42:19	0.84	1960					99.2
13C-PCB-138	3.82e+07	1.23	y	41:31	-	7.71					
PCB-195	5.74e+06	0.90	y	49:01	0.75	479		-	-	*	
PCB-194	1.54e+07	0.89	y	49:49	0.76	1260		-	-	*	
PCB-205	9.87e+05	0.88	y	50:05	1.00	61.4		-	-	*	
13C-PCB-205	3.16e+07	0.91	y	50:04	1.27	1990					101
PCB-208	1.61e+06	1.33	y	49:08	0.93	107		-	-	*	
13C-PCB-208	3.19e+07	0.79	y	49:07	1.49	1710					86.6
PCB-207	7.74e+05	1.32	y	49:26	1.00	57.9		-	-	*	
PCB-206	4.89e+06	1.36	y	51:17	0.99	463		-	-	*	
13C-PCB-206	2.09e+07	0.80	y	51:15	1.02	1640					83.3
PCB-209	3.69e+06	1.16	y	52:27	1.06	260		-	-	*	
13C-PCB-209	2.64e+07	1.20	y	52:26	1.58	1340					68.1
13C-PCB-194	2.47e+07	0.91	y	49:48	-	9.28					

Analyst: [illegible] Date: 10/10/16

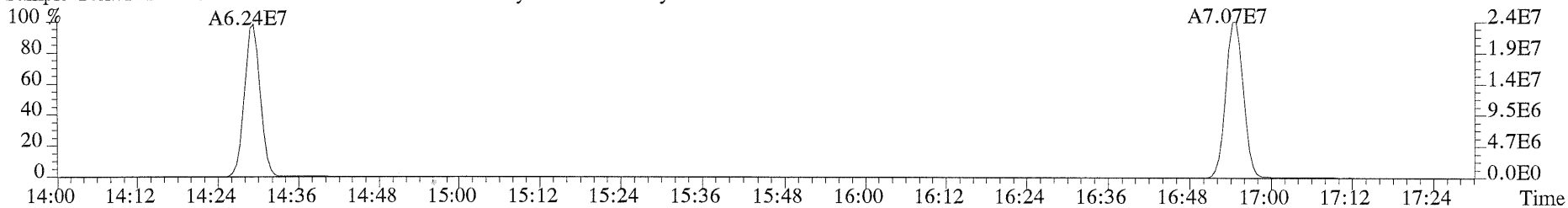
File:28SEP16Y #1-783 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:20 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



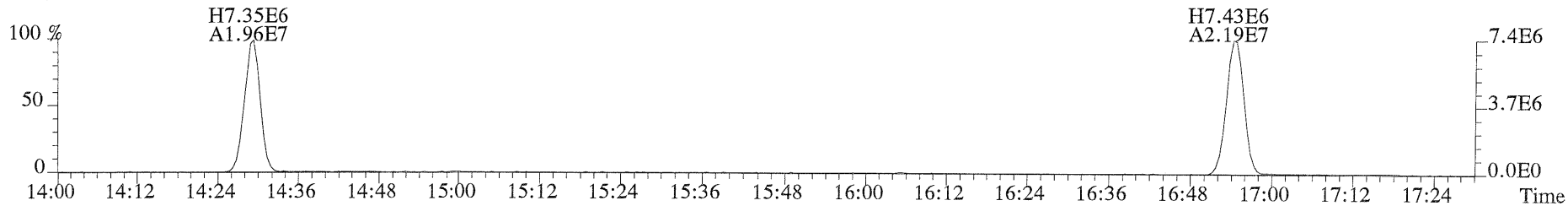
File:28SEP16Y #1-783 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:20 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



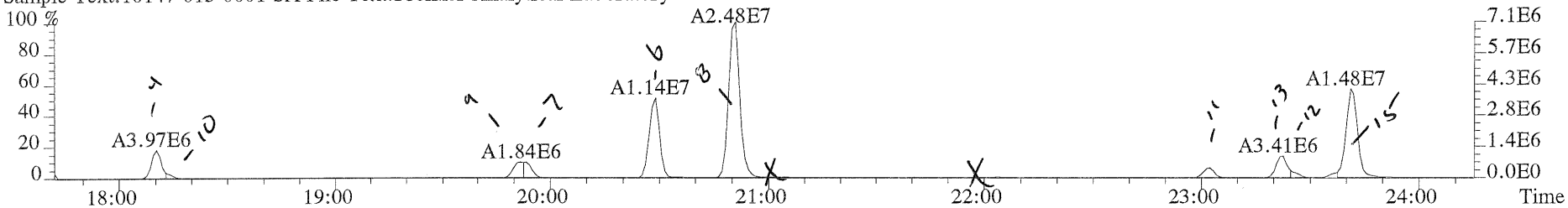
File:28SEP16Y #1-783 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:20 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



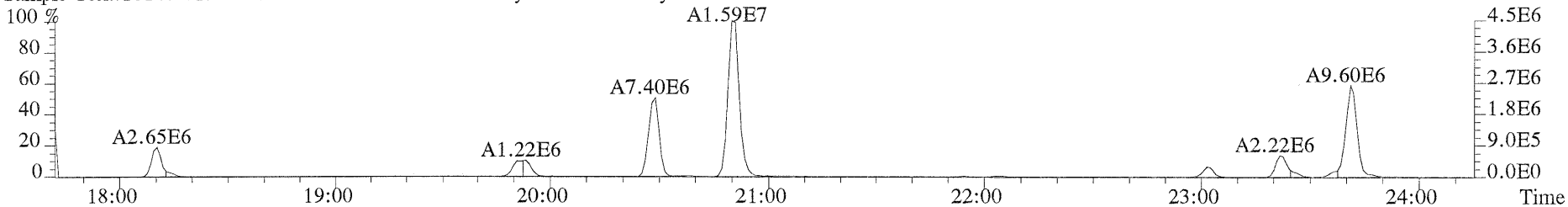
File:28SEP16Y #1-783 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:20 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



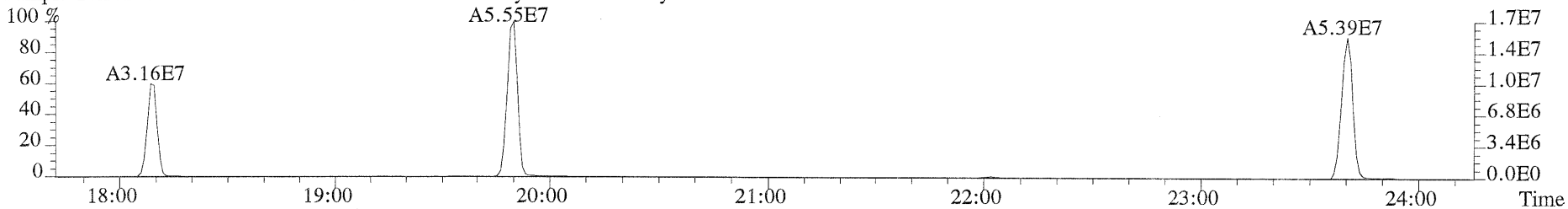
File:28SEP16Y #1-509 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:20 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



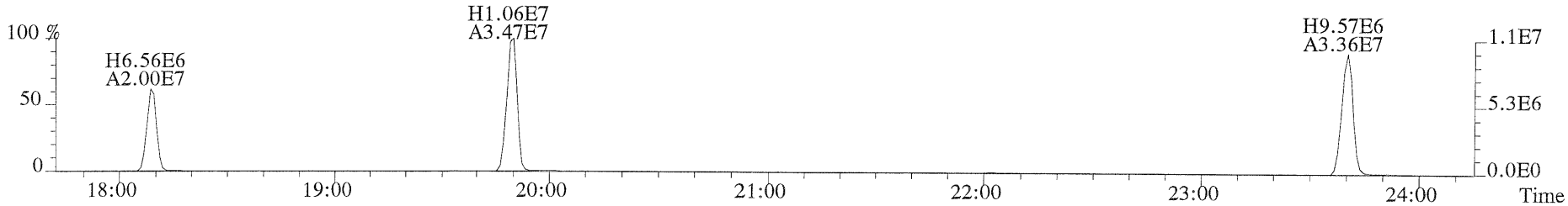
File:28SEP16Y #1-509 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:20 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



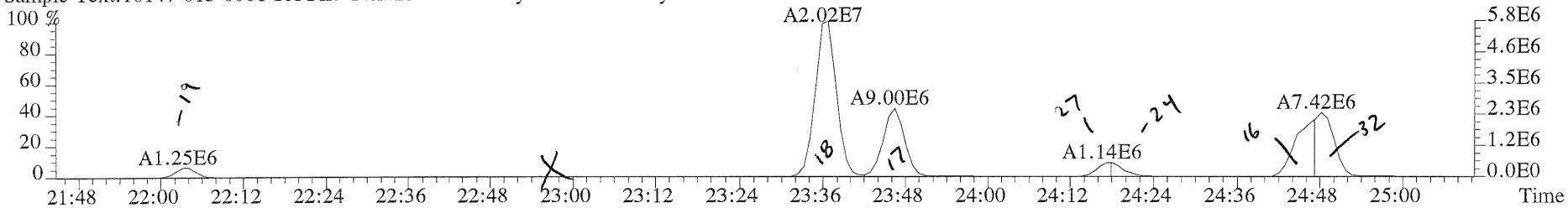
File:28SEP16Y #1-509 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:20 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



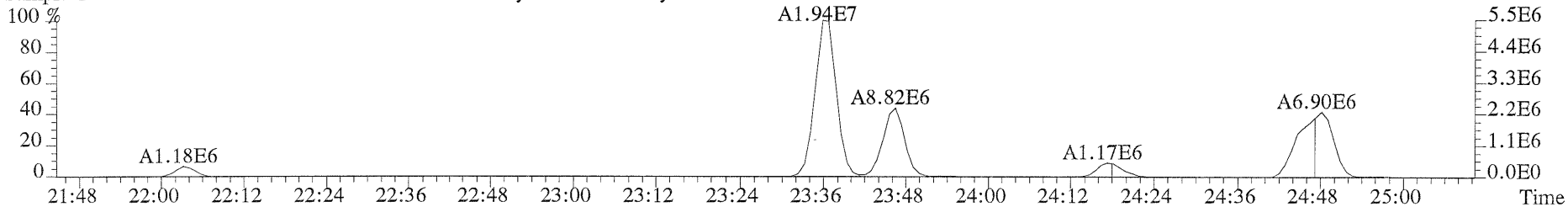
File:28SEP16Y #1-509 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:20 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



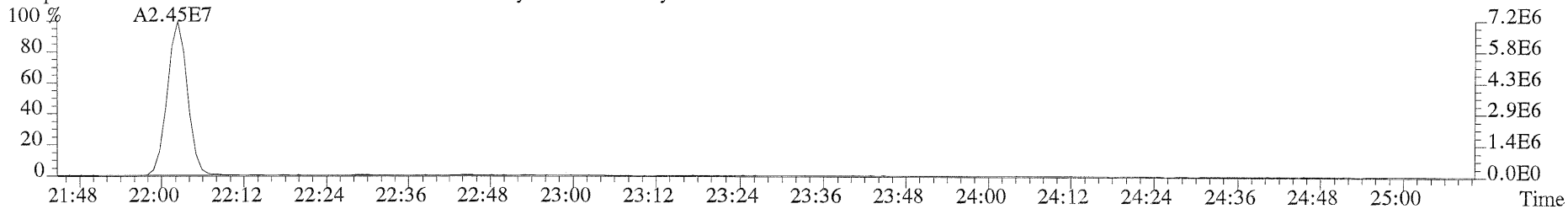
File:28SEP16Y #1-509 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:20 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



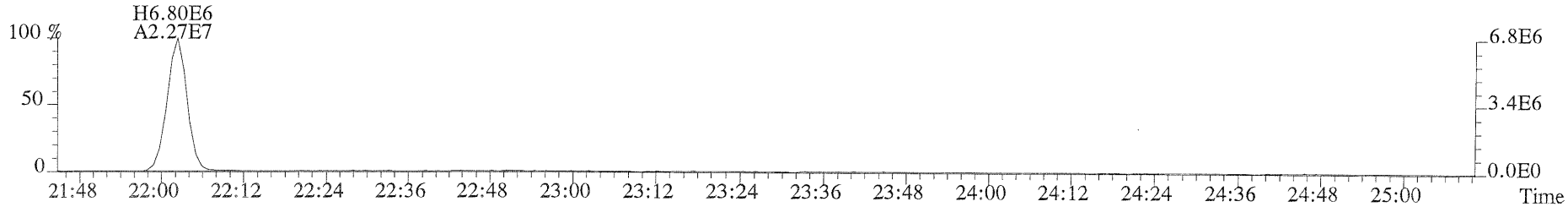
File:28SEP16Y #1-509 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:20 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



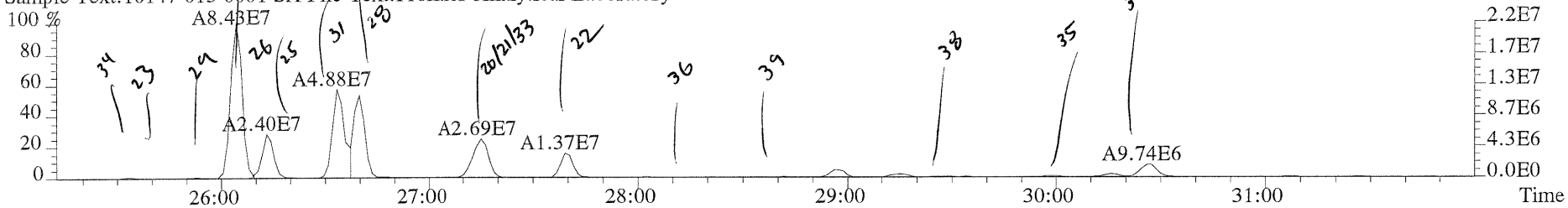
File:28SEP16Y #1-509 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:20 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



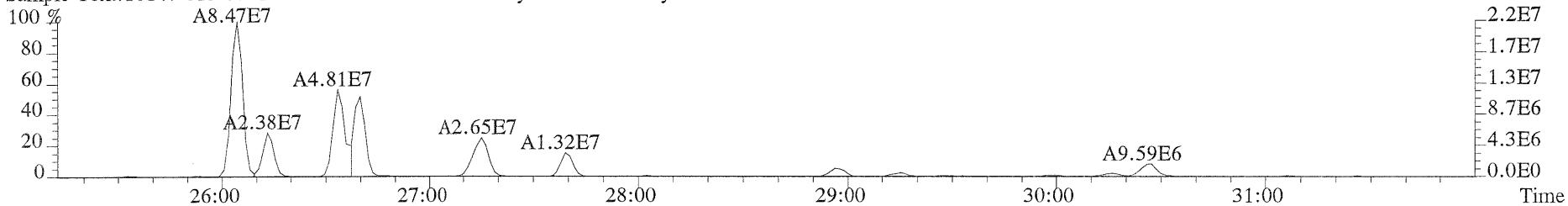
File:28SEP16Y #1-509 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:20 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



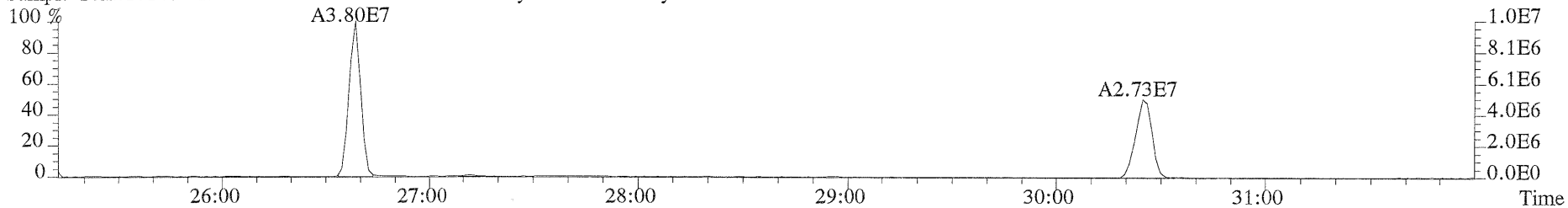
File:28SEP16Y #1-403 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:20 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



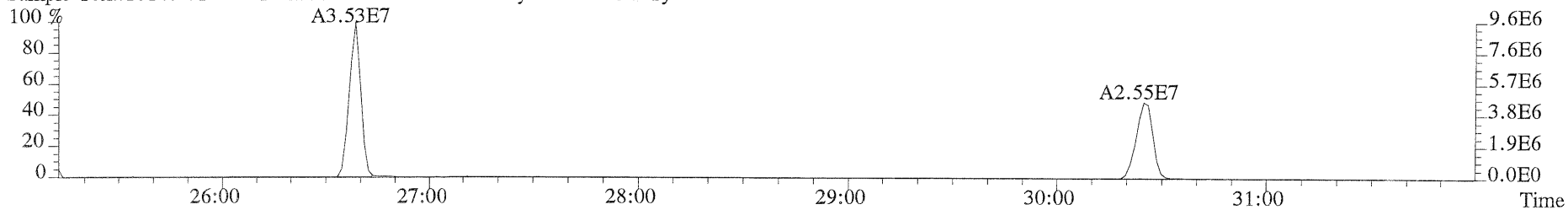
File:28SEP16Y #1-403 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:20 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



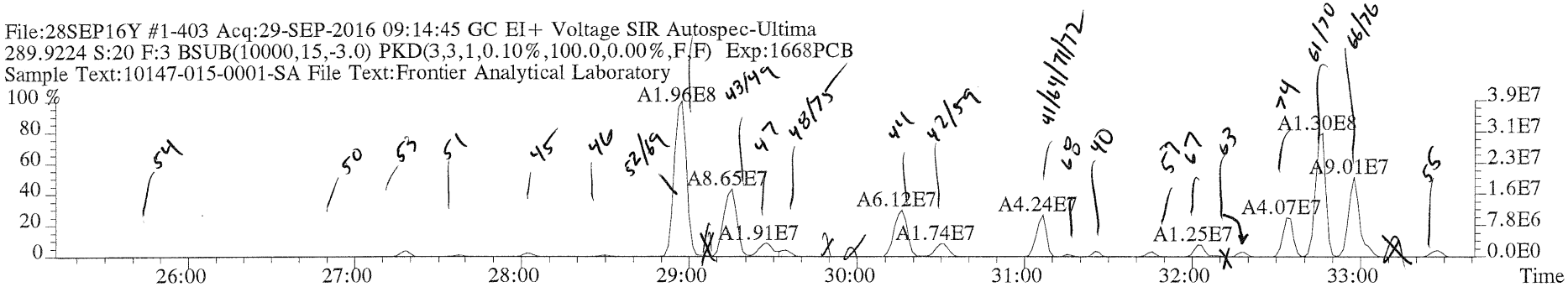
File:28SEP16Y #1-403 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:20 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



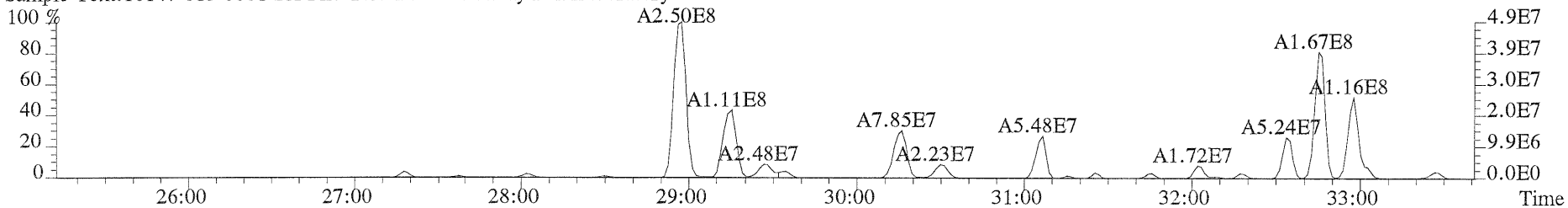
File:28SEP16Y #1-403 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:20 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



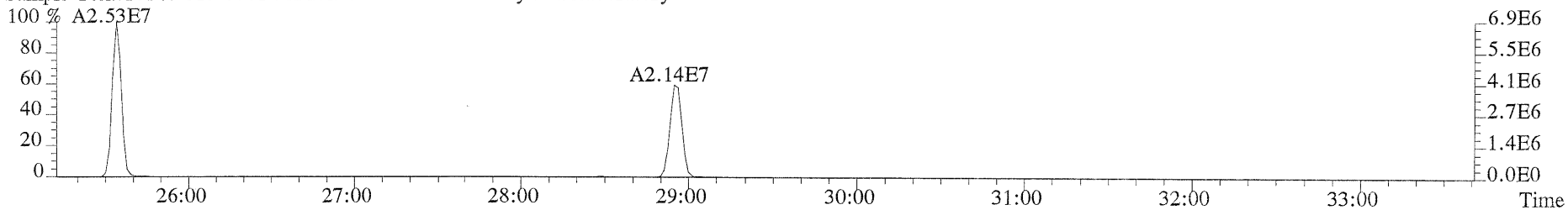
File:28SEP16Y #1-403 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:20 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



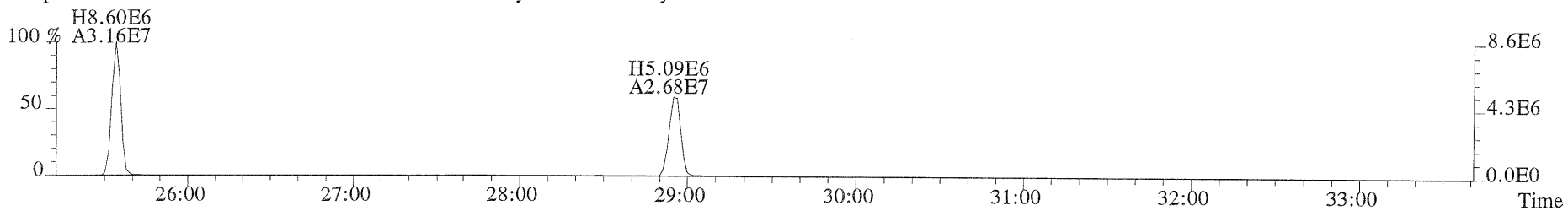
File:28SEP16Y #1-403 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:20 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



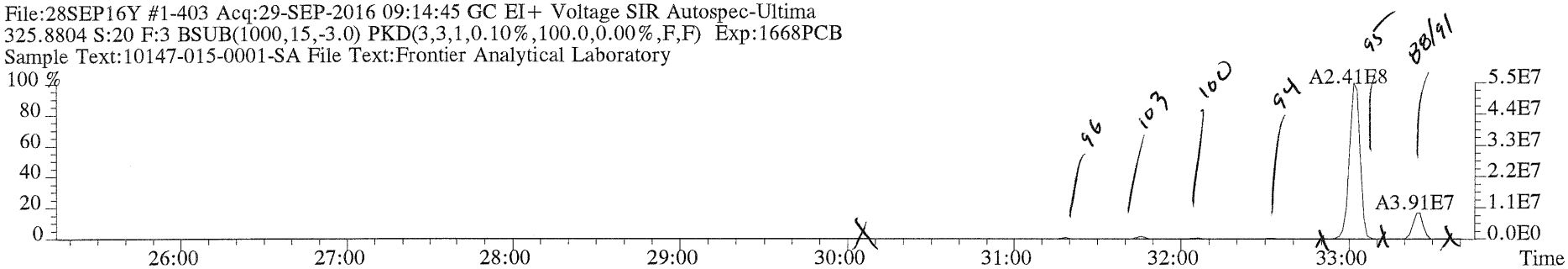
File:28SEP16Y #1-403 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:20 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



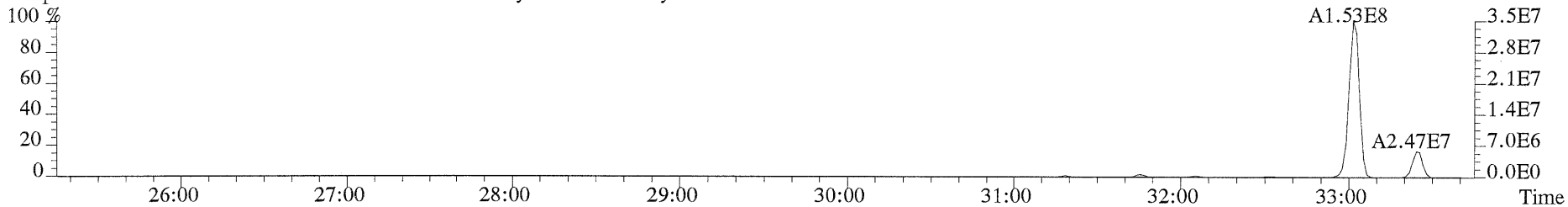
File:28SEP16Y #1-403 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:20 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



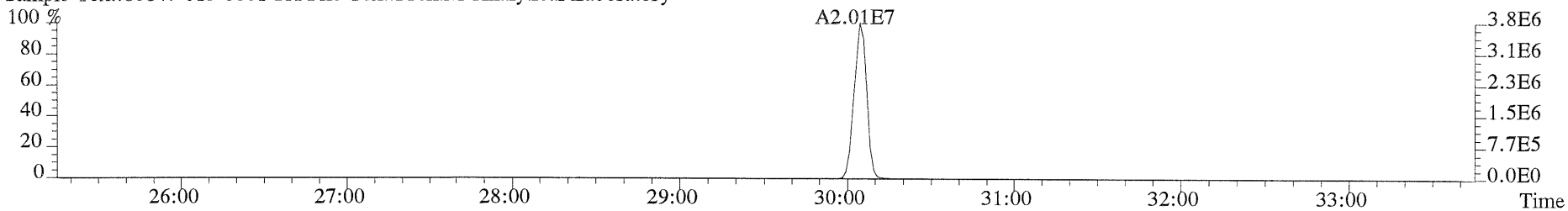
File:28SEP16Y #1-403 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



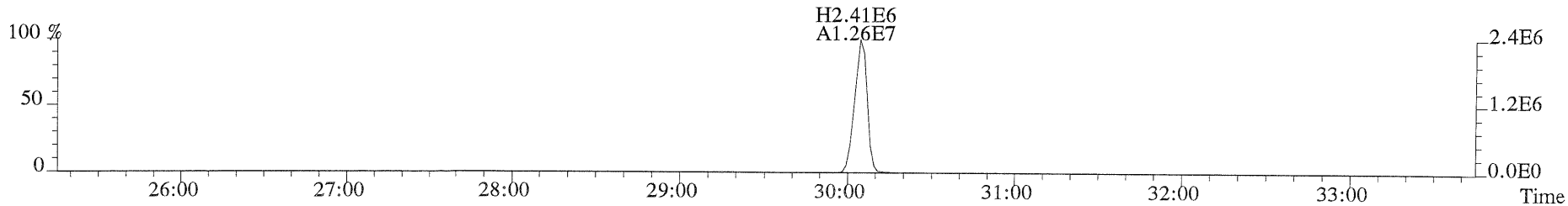
File:28SEP16Y #1-403 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



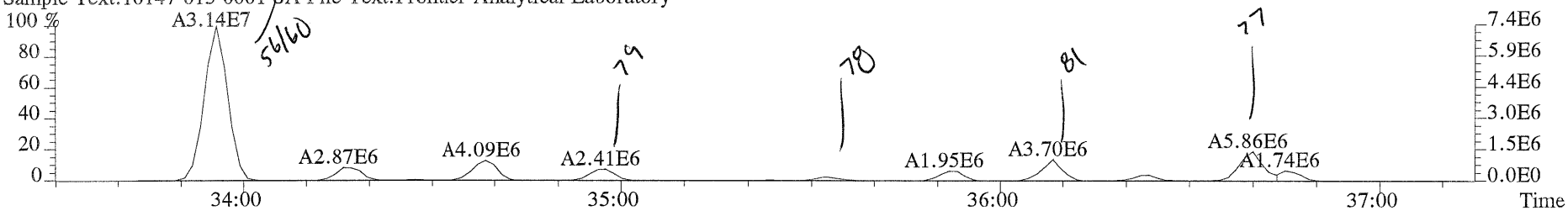
File:28SEP16Y #1-403 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



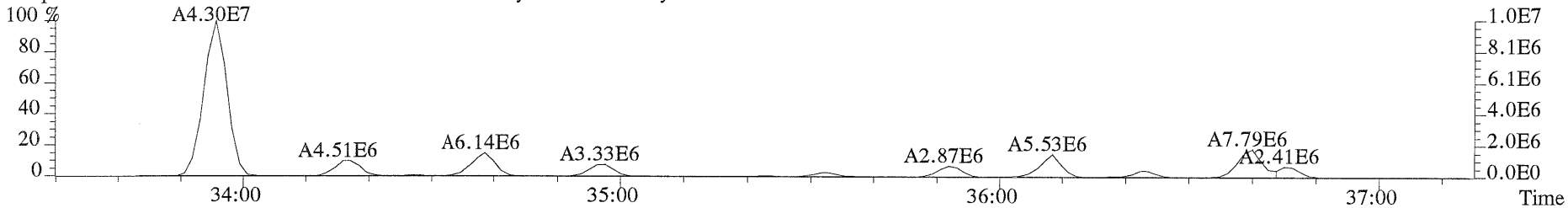
File:28SEP16Y #1-403 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:20 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



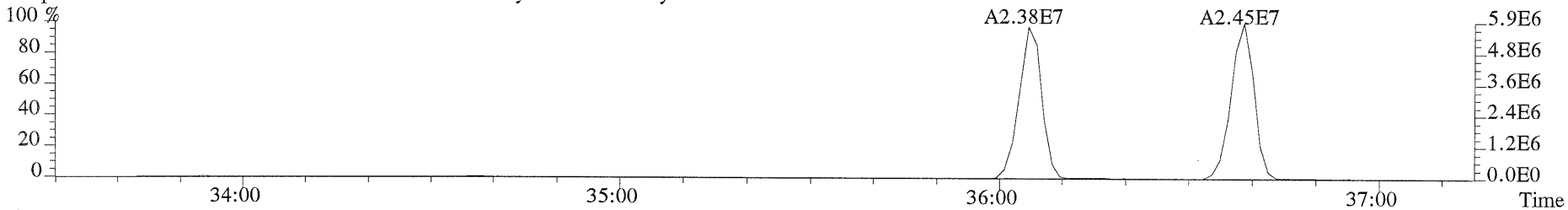
File:28SEP16Y #1-179 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



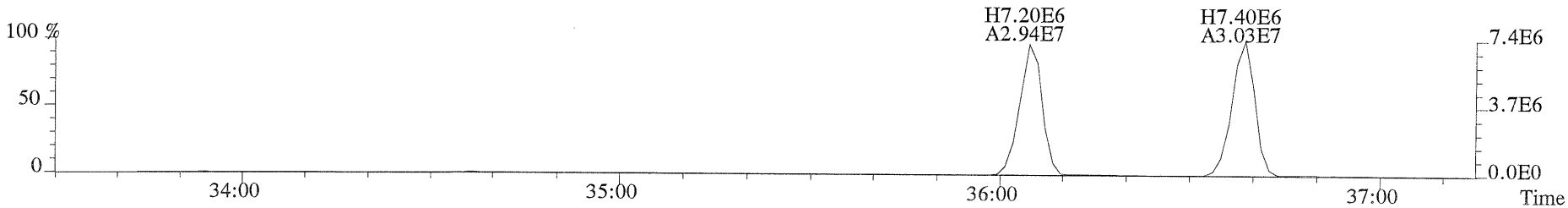
File:28SEP16Y #1-179 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



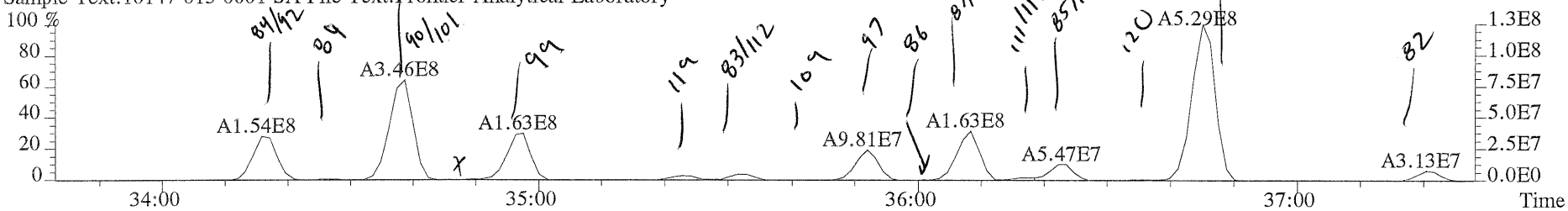
File:28SEP16Y #1-179 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



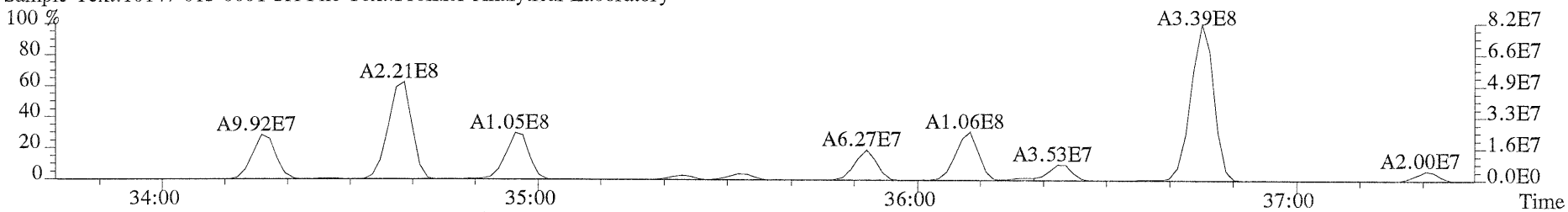
File:28SEP16Y #1-179 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



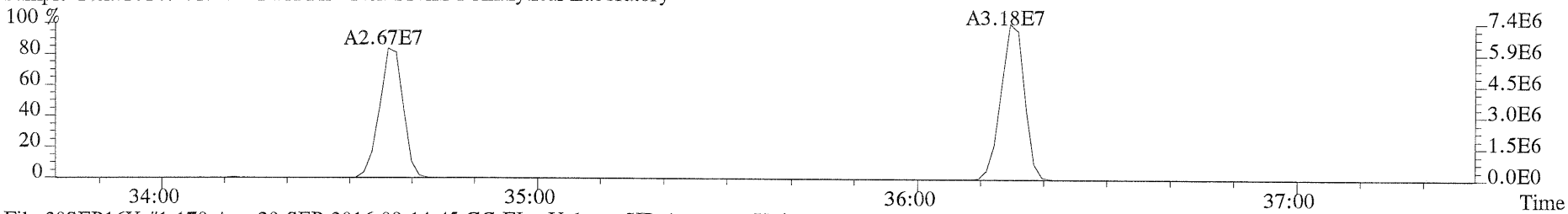
File:28SEP16Y #1-179 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:20 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



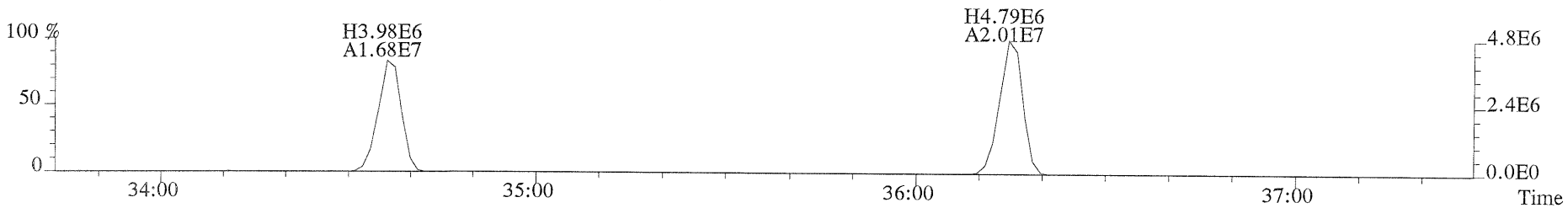
File:28SEP16Y #1-179 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:20 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



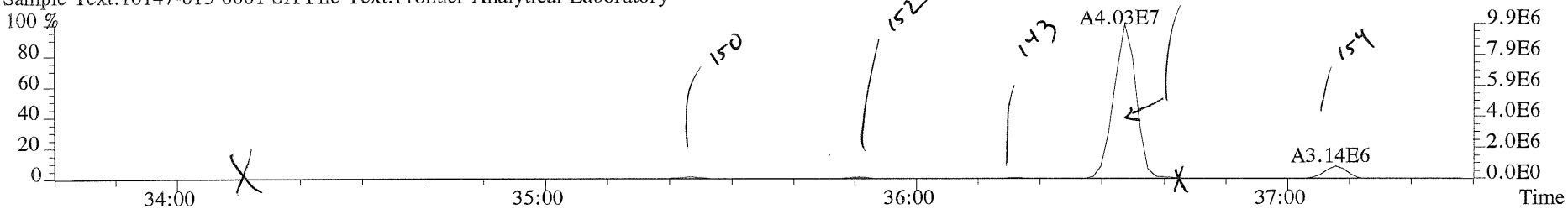
File:28SEP16Y #1-179 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:20 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



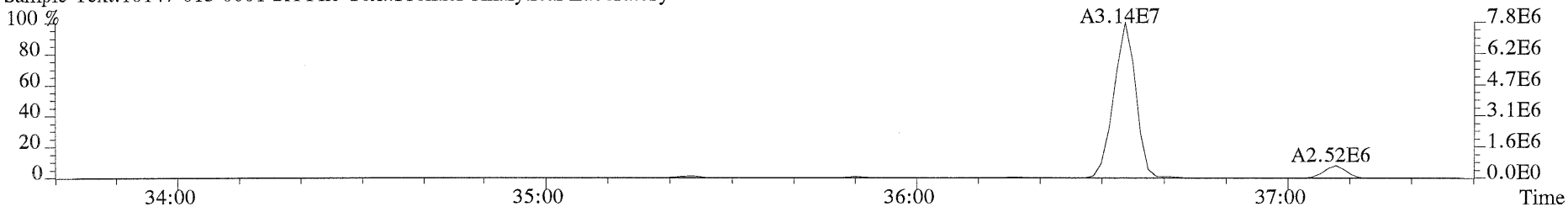
File:28SEP16Y #1-179 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:20 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



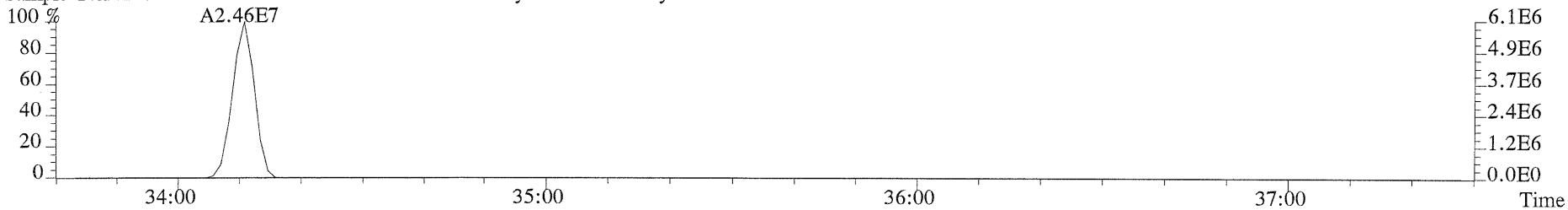
File:28SEP16Y #1-179 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



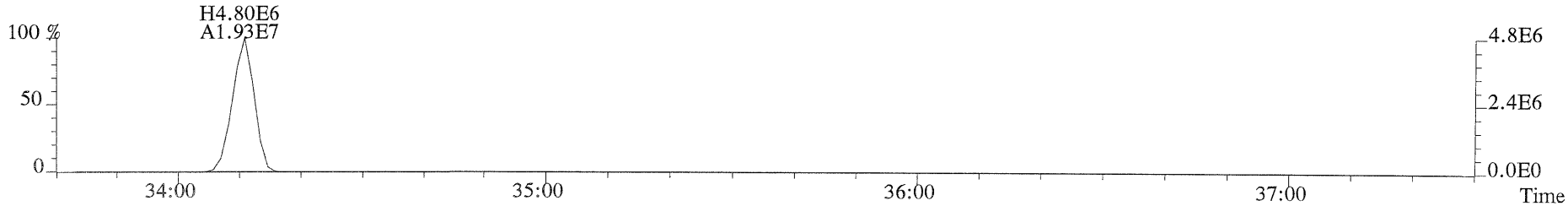
File:28SEP16Y #1-179 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



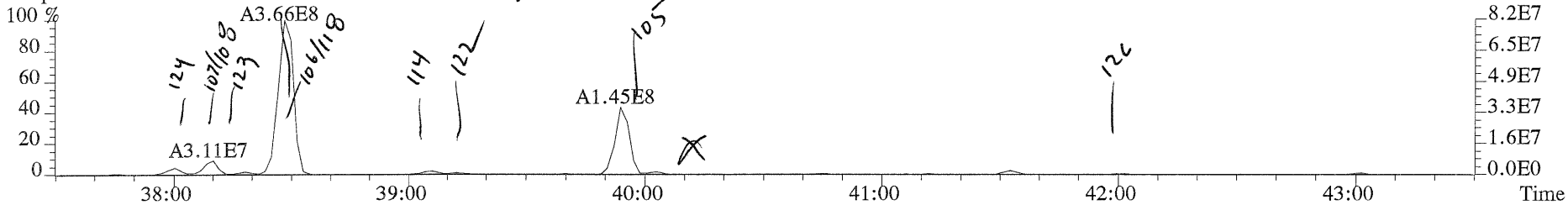
File:28SEP16Y #1-179 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



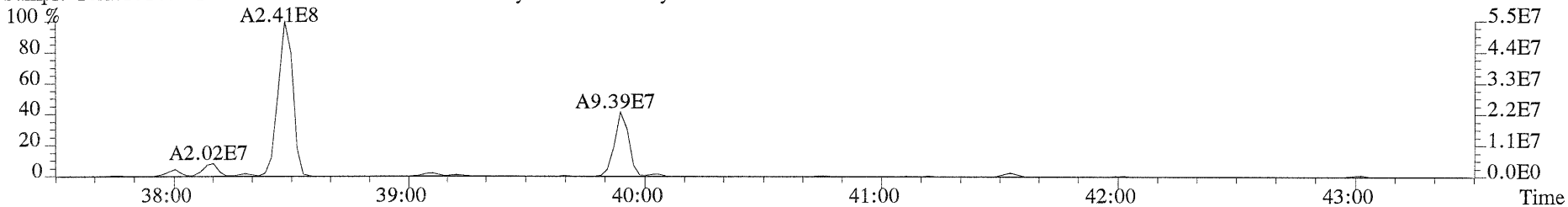
File:28SEP16Y #1-179 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:20 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



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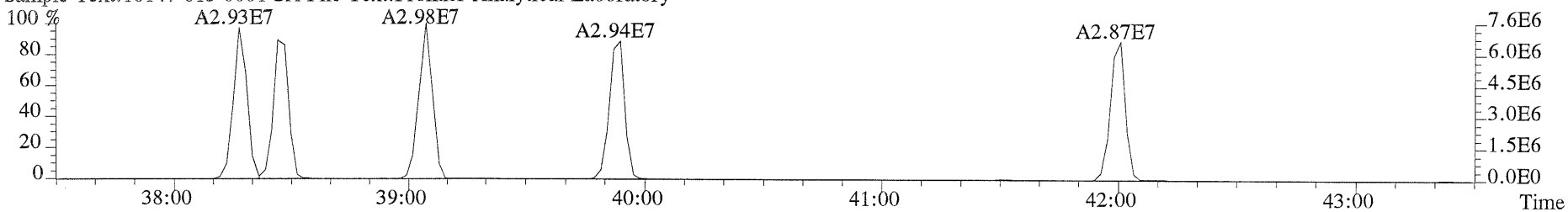
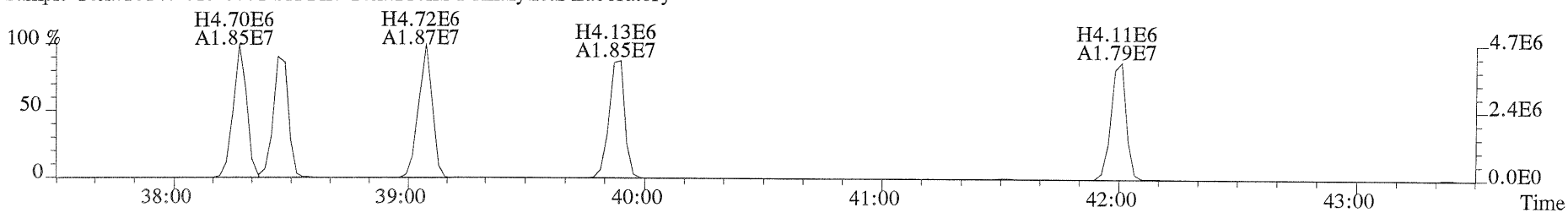
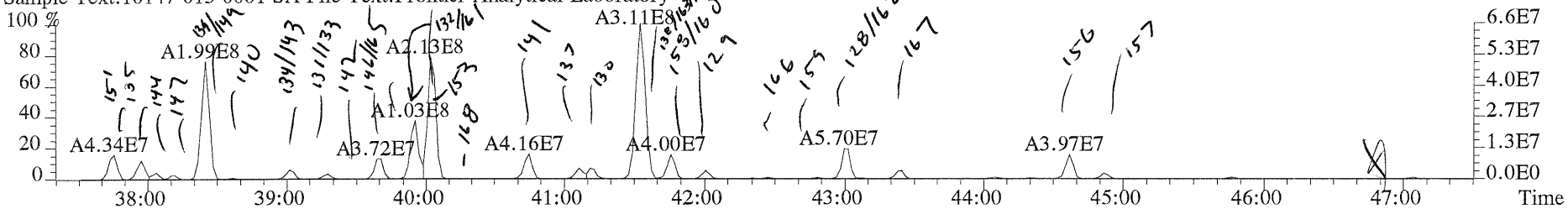
337.9207 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



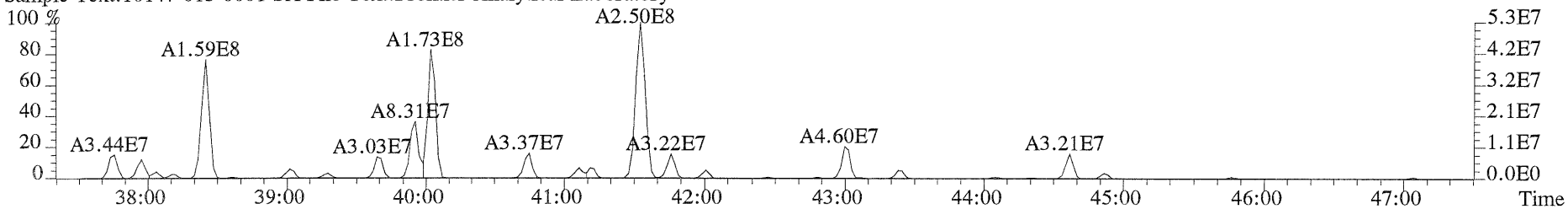
File:28SEP16Y #1-411 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



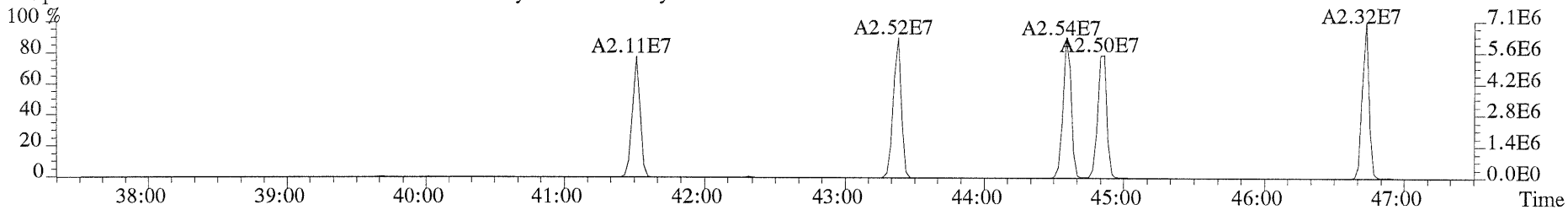
File:28SEP16Y #1-411 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



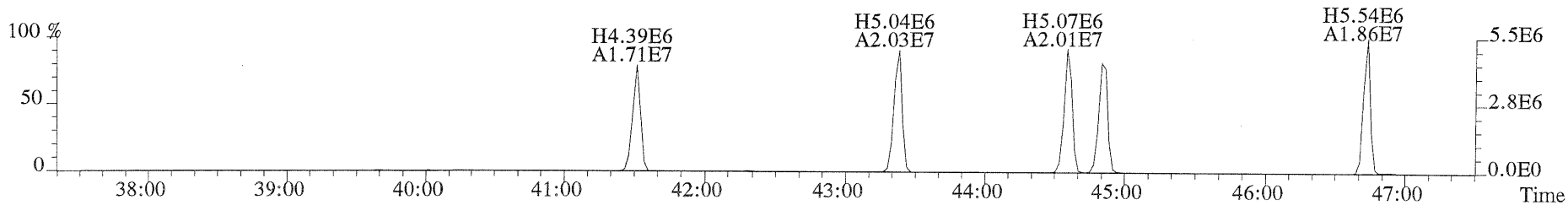
File:28SEP16Y #1-411 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



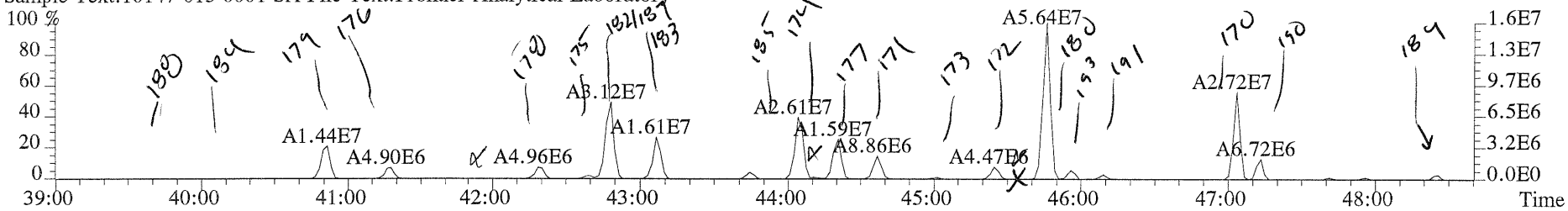
File:28SEP16Y #1-411 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



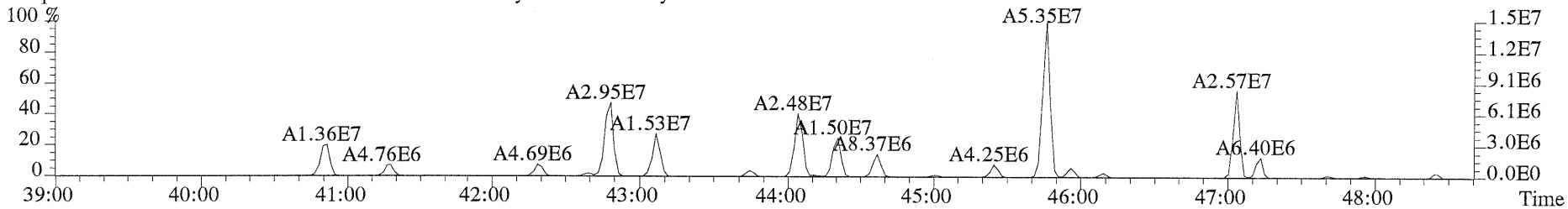
File:28SEP16Y #1-411 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



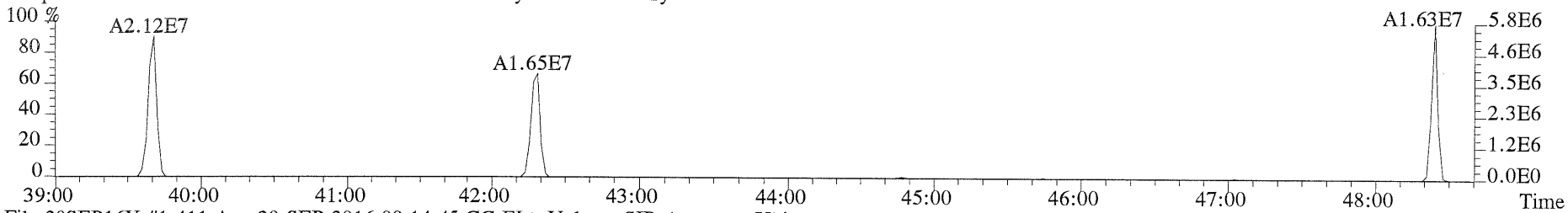
File:28SEP16Y #1-411 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



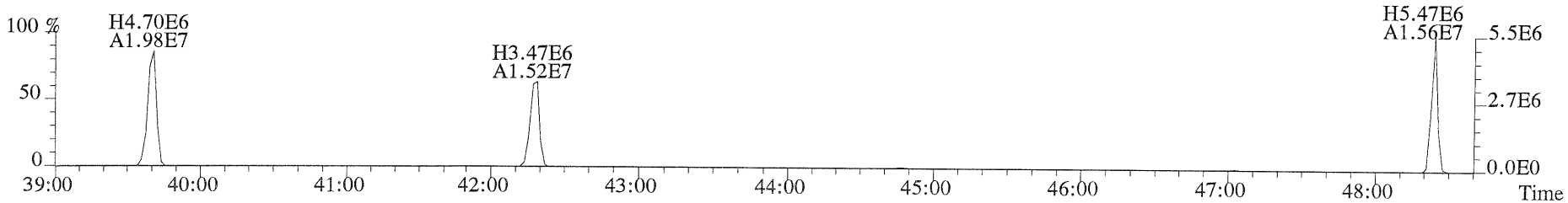
File:28SEP16Y #1-411 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



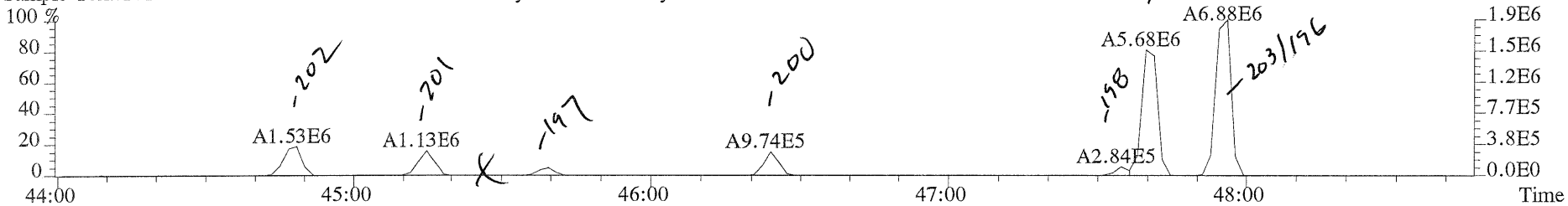
File:28SEP16Y #1-411 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



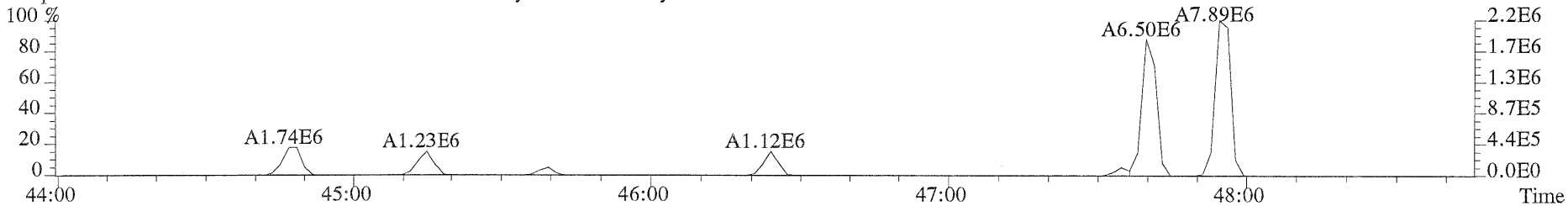
File:28SEP16Y #1-411 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:20 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



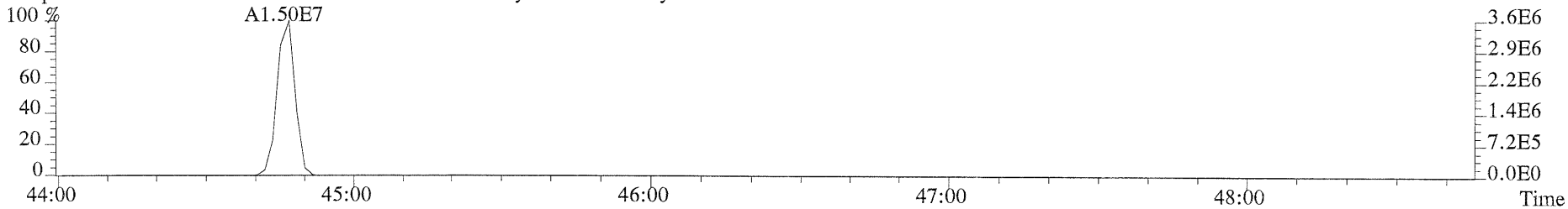
File:28SEP16Y #1-411 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:20 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



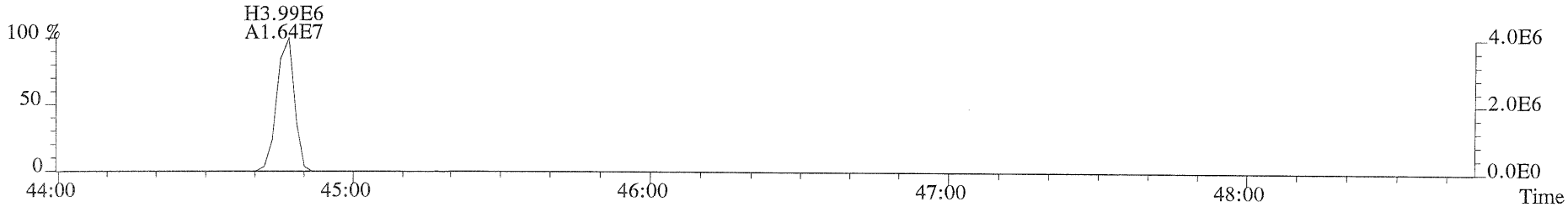
File:28SEP16Y #1-411 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:20 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



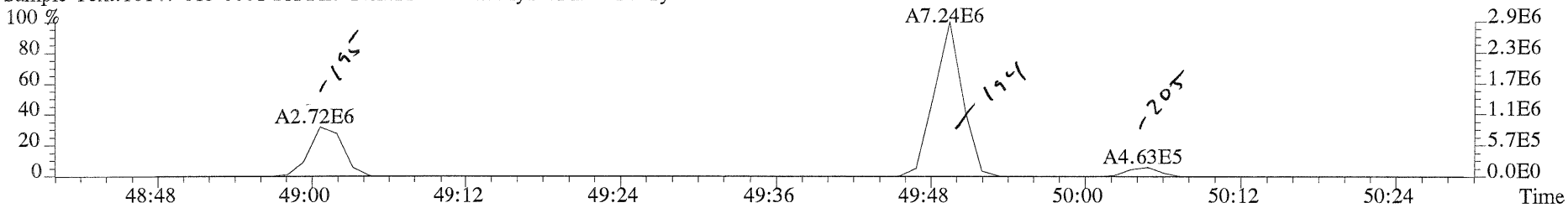
File:28SEP16Y #1-411 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:20 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



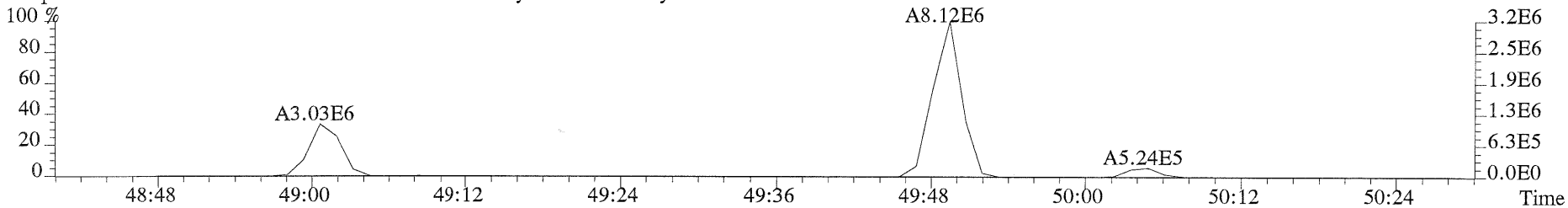
File:28SEP16Y #1-411 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:20 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



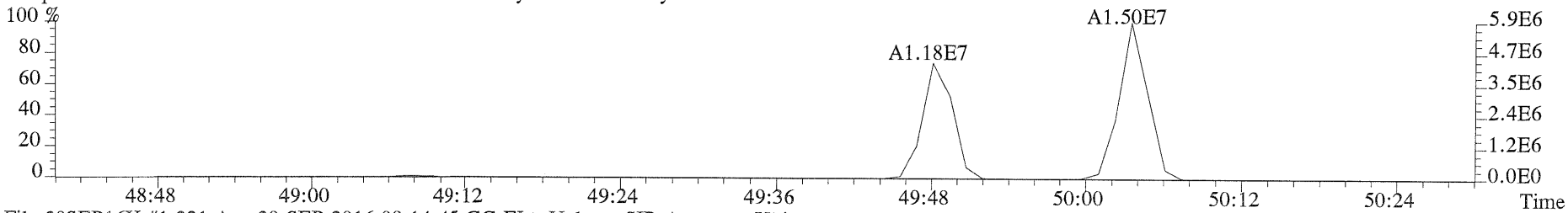
File:28SEP16Y #1-221 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



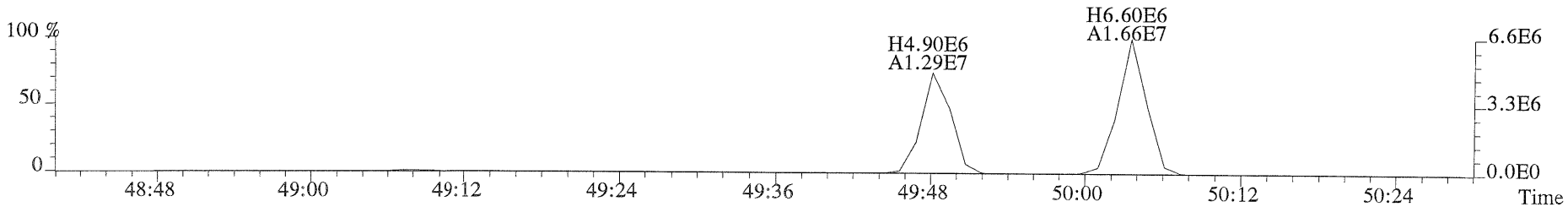
File:28SEP16Y #1-221 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



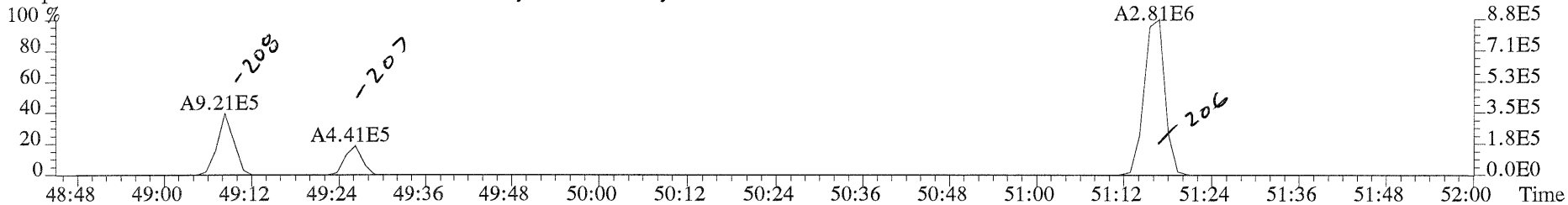
File:28SEP16Y #1-221 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



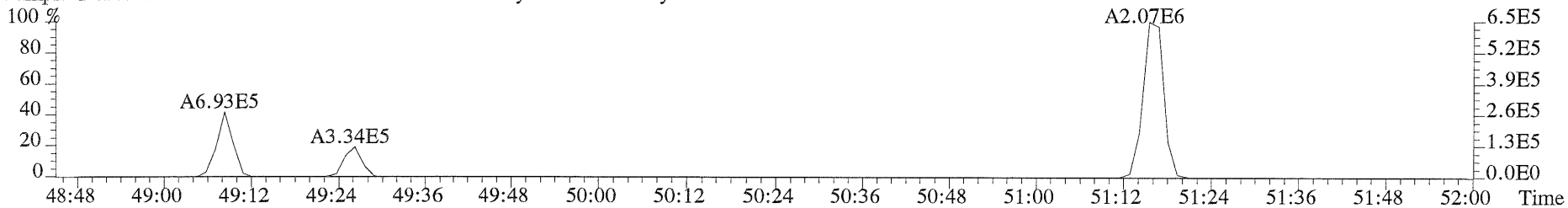
File:28SEP16Y #1-221 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



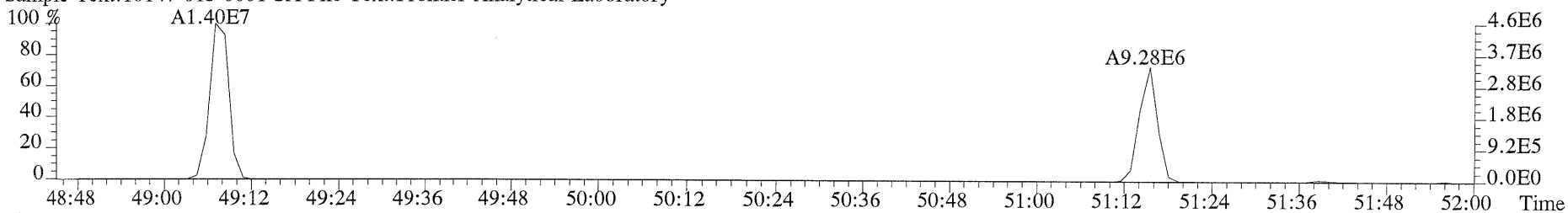
File:28SEP16Y #1-221 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



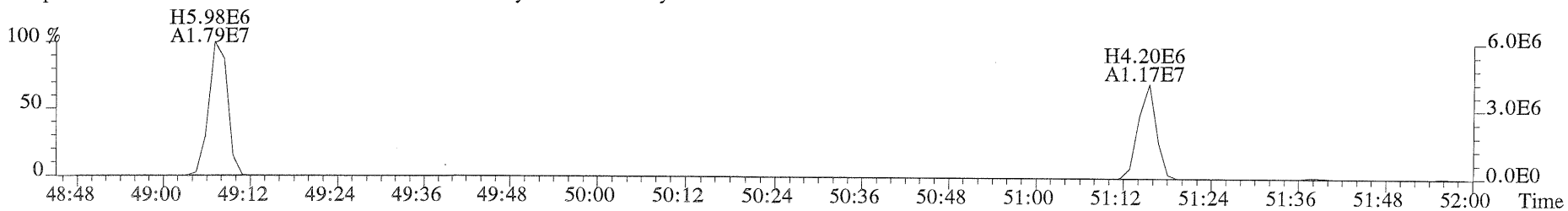
File:28SEP16Y #1-221 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



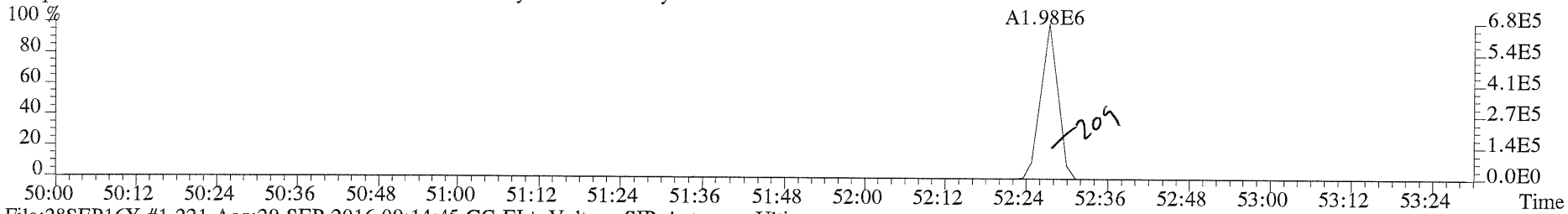
File:28SEP16Y #1-221 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



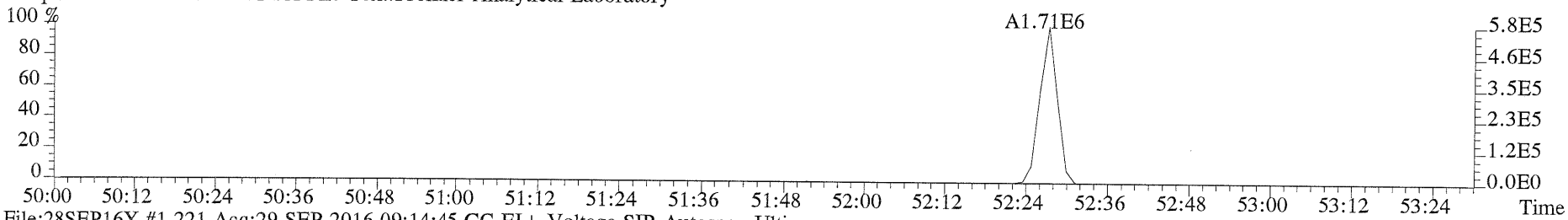
File:28SEP16Y #1-221 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



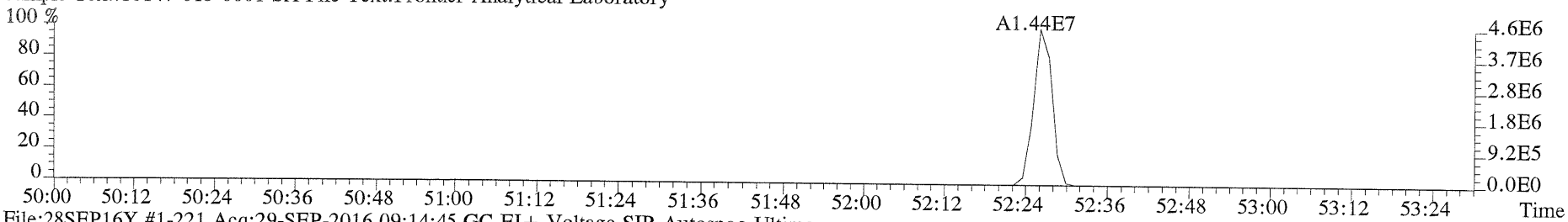
File:28SEP16Y #1-221 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



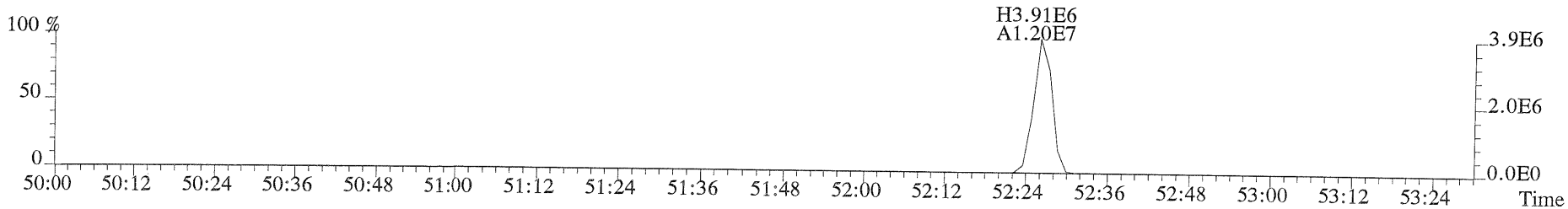
File:28SEP16Y #1-221 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 09:14:45 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:20 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-015-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10147-016-0001-SA Filename: 28SEP16Y Sam:21 Acquired: 29-SEP-16 10:11:13 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-IN-ENR-CB-CORE ConCal: ST092816Y2 EndCal: ST092816Y3
Results: 10147 GC Column: DB1 Amount: 5.020

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	8.10e+06	3.11 y	14:30	1.00	166		-	-	*	
13C-PCB-1	9.70e+07	3.18 y	14:29	1.29	1540					77.2
PCB-2	1.01e+06	3.04 y	16:43	0.91	21.8		-	-	*	
PCB-3	4.37e+06	3.01 y	16:56	0.96	86.1		-	-	*	
13C-PCB-3	1.05e+08	3.21 y	16:55	1.26	1700					85.5
PCB-4	4.50e+06	1.53 y	18:11	0.95	159		-	-	*	
PCB-10	4.25e+05	1.61 y	18:13	1.14	9.37		-	-	*	
13C-PCB-4	5.93e+07	1.57 y	18:09	0.64	1890					94.7
PCB-9	1.89e+06	1.48 y	19:51	1.21	39.2		-	-	*	
PCB-7	1.98e+06	1.56 y	19:54	1.16	42.9		-	-	*	
PCB-6	2.10e+07	1.56 y	20:28	1.14	465		-	-	*	
PCB-8	2.69e+07	1.54 y	20:50	1.15	590		-	-	*	
PCB-5	*	* n	NotFnd	1.17	*		2290	2450	0.849	
PCB-14	*	* n	NotFnd	1.14	*		2290	2450	0.870	
PCB-11	2.29e+06	1.53 y	23:02	1.10	52.4		-	-	*	
PCB-13	4.68e+06	1.53 y	23:22	1.08	109		-	-	*	
PCB-12	5.37e+05	1.50 y	23:25	1.17	11.6		-	-	*	
PCB-15	1.37e+07	1.57 y	23:41	1.08	255		-	-	*	
13C-PCB-15	9.88e+07	1.59 y	23:40	1.00	2020					101
PCB-19	2.42e+06	1.05 y	22:04	1.04	85.6		-	-	*	
PCB-30	*	* n	NotFnd	1.45	*		1910	1920	0.861	
PCB-18	4.11e+07	1.03 y	23:36	1.01	1490		-	-	*	
PCB-17	1.72e+07	1.03 y	23:46	1.08	587		-	-	*	
PCB-27	2.37e+06	0.99 y	24:18	1.55	56.3		-	-	*	
PCB-24	1.22e+06	1.18 y	24:19	1.32	34.0		-	-	*	
PCB-16	1.13e+07	0.99 y	24:47	1.15	359		-	-	*	
PCB-32	1.42e+07	1.09 y	24:48	1.34	388		-	-	*	
13C-PCB-19	5.42e+07	1.07 y	22:03	0.66	1670					83.9
13C-PCB-9	9.77e+07	1.57 y	19:49	-	11.7					
PCB-34	1.08e+06	1.06 y	25:33	0.81	37.5		-	-	*	
PCB-23	1.13e+05	1.17 y	25:39	0.90	3.52	J	-	-	*	
PCB-29	3.66e+05	1.07 y	25:53	0.90	11.5		-	-	*	
PCB-26	1.58e+08	1.02 y	26:05	0.97	4600		-	-	*	
PCB-25	4.92e+07	1.03 y	26:14	1.21	1140		-	-	*	
PCB-31	8.07e+07	1.01 y	26:34	0.97	2340		-	-	*	
PCB-28	8.35e+07	1.04 y	26:40	1.08	2190		-	-	*	
PCB-20	4.37e+07	1.03 y	27:14	1.02	1210		-	-	*	Co-elute PCB 21/33
PCB-21	4.37e+07	1.03 y	27:14	1.02	1210		-	-	*	Co-elute PCB 20/33
PCB-33	4.37e+07	1.03 y	27:14	1.02	1210		-	-	*	Co-elute PCB 20/21
PCB-22	2.34e+07	1.04 y	27:39	1.08	612		-	-	*	
PCB-36	2.58e+05	1.11 y	28:15	0.96	7.57		-	-	*	
PCB-39	2.94e+05	1.05 y	28:41	1.00	8.31		-	-	*	
PCB-38	7.07e+05	1.08 y	29:27	0.91	21.8		-	-	*	
PCB-35	1.22e+06	1.04 y	29:59	1.01	33.9		-	-	*	
PCB-37	1.57e+07	1.03 y	30:26	1.08	412		-	-	*	
13C-PCB-37	7.07e+07	1.08 y	30:25	1.03	2380					120

PCB-54	1.96e+05	0.81	y	25:36	1.04	5.80		-	-	*	
PCB-50	3.30e+05	0.80	y	26:41	0.79	12.9		-	-	*	
PCB-53	1.13e+07	0.77	y	27:18	0.80	437		-	-	*	
PCB-51	3.01e+06	0.79	y	27:38	0.84	111		-	-	*	
PCB-45	8.63e+06	0.79	y	28:02	0.72	371		-	-	*	
PCB-46	3.43e+06	0.77	y	28:30	0.69	153		-	-	*	
PCB-52	3.25e+08	0.77	y	28:57	0.99	10100		-	-	*	Co-elute PCB 69
PCB-69	3.25e+08	0.77	y	28:57	0.99	10100		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.07	*		1220	1310	0.686	
PCB-43	1.42e+08	0.77	y	29:14	0.79	5560		-	-	*	Co-elute PCB 49
PCB-49	1.42e+08	0.77	y	29:14	0.79	5560		-	-	*	Co-elute PCB 43
PCB-47	3.03e+07	0.77	y	29:27	1.07	877		-	-	*	
PCB-48	1.36e+07	0.78	y	29:33	0.94	445		-	-	*	Co-elute PCB 75
PCB-75	1.36e+07	0.78	y	29:33	0.94	445		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*		1220	1310	0.740	
PCB-62	*	*	n	NotFnd	0.99	*		1220	1310	0.737	
PCB-44	1.15e+08	0.78	y	30:15	0.73	4830		-	-	*	
PCB-42	3.45e+07	0.78	y	30:29	0.98	1080		-	-	*	Co-elute PCB 59
PCB-59	3.45e+07	0.78	y	30:29	0.98	1080		-	-	*	Co-elute PCB 42
PCB-72	8.53e+07	0.78	y	30:58	1.09	2420		-	-	*	Co-elute PCB 41/71/64
PCB-41	8.53e+07	0.78	y	30:58	1.09	2420		-	-	*	Co-elute PCB 72/71/64
PCB-71	8.53e+07	0.78	y	30:58	1.09	2420		-	-	*	Co-elute PCB 72/41/64
PCB-64	8.53e+07	0.78	y	30:58	1.09	2420		-	-	*	Co-elute PCB 72/41/71
PCB-68	2.37e+06	0.77	y	31:12	1.12	65.0		-	-	*	
PCB-40	9.08e+06	0.78	y	31:23	0.63	441		-	-	*	
PCB-57	7.67e+06	0.78	y	31:43	1.08	219		-	-	*	
PCB-67	2.10e+07	0.82	y	32:01	1.07	604		-	-	*	
PCB-58	*	*	n	NotFnd	1.08	*		1220	1310	0.676	
PCB-63	7.01e+06	0.79	y	32:16	1.08	200		-	-	*	
PCB-74	5.73e+07	0.79	y	32:33	1.18	1490		-	-	*	
PCB-61	1.44e+08	0.78	y	32:44	1.15	3850		-	-	*	Co-elute PCB 70
PCB-70	1.44e+08	0.78	y	32:44	1.15	3850		-	-	*	Co-elute PCB 61
PCB-76	1.21e+08	0.78	y	32:57	1.13	3280		-	-	*	Co-elute PCB 66
PCB-66	1.21e+08	0.78	y	32:57	1.13	3280		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.27	*		1220	1310	0.577	
PCB-55	1.24e+07	0.76	y	33:27	1.13	339		-	-	*	
13C-PCB-54	6.46e+07	0.80	y	25:34	1.09	2050					103
PCB-104	*	*	n	NotFnd	1.13	*		702	765	0.832	
PCB-96	1.94e+06	1.55	y	31:13	1.06	86.1		-	-	*	
PCB-103	3.22e+06	1.51	y	31:45	0.88	171		-	-	*	
PCB-100	1.22e+06	1.53	y	32:05	0.87	65.3		-	-	*	
PCB-94	1.21e+06	1.55	y	32:30	0.74	76.1		-	-	*	
PCB-98	*	*	n	NotFnd	1.06	*		702	765	0.888	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	1.06	*		702	765	0.888	Co-elute PCB 98
PCB-95	2.61e+08	1.58	y	33:02	0.63	19300		-	-	*	
PCB-93	*	*	n	NotFnd	0.63	*		702	765	1.50	
PCB-88	4.03e+07	1.56	y	33:25	0.83	2270		-	-	*	Co-elute PCB 91
PCB-91	4.03e+07	1.56	y	33:25	0.83	2270		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.99	*		702	765	0.951	
13C-PCB-104	4.26e+07	1.61	y	30:05	0.98	1500					75.5
13C-PCB-28	8.60e+07	1.07	y	26:39	1.01	2940	A				148
13C-PCB-52	5.75e+07	0.79	y	28:55	-	9.64					

PCB-56	4.38e+07	0.75	y	33:55	0.89	1580		-	-	*	Co-elute PCB 60
PCB-60	4.38e+07	0.75	y	33:55	0.89	1580		-	-	*	Co-elute PCB 56
PCB-79	3.71e+06	0.69	y	34:55	1.00	119		-	-	*	
PCB-78	1.26e+06	0.68	y	35:32	0.97	41.5		-	-	*	
PCB-81	6.86e+06	0.70	y	36:07	1.07	207		-	-	*	
13C-PCB-81	6.16e+07	0.80	y	36:04	0.96	2610					131
PCB-77	7.62e+06	0.74	y	36:39	1.01	240		-	-	*	
13C-PCB-77	6.26e+07	0.81	y	36:38	1.02	2500					126
PCB-155	*	*	n	NotFnd	1.05	*		801	844	0.634	
PCB-150	4.59e+05	1.35	y	35:23	0.96	19.1		-	-	*	
PCB-152	4.46e+05	1.24	y	35:50	0.94	18.9		-	-	*	
PCB-145	1.74e+05	1.29	y	36:15	0.94	7.41		-	-	*	
PCB-136	4.49e+07	1.28	y	36:33	0.94	1900		-	-	*	
PCB-148	*	*	n	NotFnd	0.68	*		801	844	0.984	
PCB-154	3.10e+06	1.31	y	37:07	0.80	155		-	-	*	
13C-PCB-155	4.99e+07	1.27	y	34:10	1.15	1770					88.8
13C-PCB-111	5.70e+07	1.59	y	36:15	1.14	2040					102
13C-PCB-101	4.88e+07	1.58	y	34:36	-	8.55					
PCB-84	1.63e+08	1.56	y	34:16	0.87	6740		-	-	*	Co-elute PCB 92
PCB-92	1.63e+08	1.56	y	34:16	0.87	6740		-	-	*	Co-elute PCB 84
PCB-89	2.42e+06	1.60	y	34:26	0.86	101		-	-	*	
PCB-90	3.29e+08	1.56	y	34:38	0.98	12100		-	-	*	Co-elute PCB 101
PCB-101	3.29e+08	1.56	y	34:38	0.98	12100		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.12	*		1310	1360	0.905	
PCB-99	1.51e+08	1.56	y	34:57	1.06	5130		-	-	*	
PCB-119	1.26e+07	1.52	y	35:22	1.26	360		-	-	*	
PCB-83	1.99e+07	1.56	y	35:32	1.00	715		-	-	*	Co-elute PCB 112
PCB-112	1.99e+07	1.56	y	35:32	1.00	715		-	-	*	Co-elute PCB 83
PCB-109	1.36e+05	1.49	y	35:41	1.13	4.33		-	-	*	
PCB-97	9.35e+07	1.55	y	35:51	1.06	3180		-	-	*	
PCB-86	3.97e+05	1.37	y	36:00	0.88	16.2		-	-	*	
PCB-125	1.68e+08	1.54	y	36:07	1.13	5320		-	-	*	Co-elute PCB 87/117
PCB-87	1.68e+08	1.54	y	36:07	1.13	5320		-	-	*	Co-elute PCB 125/117
PCB-117	1.68e+08	1.54	y	36:07	1.13	5320		-	-	*	Co-elute PCB 125/87
PCB-111	6.46e+06	1.51	y	36:16	1.45	161		-	-	*	Co-elute PCB 115
PCB-115	6.46e+06	1.51	y	36:16	1.45	161		-	-	*	Co-elute PCB 111
PCB-85	5.43e+07	1.58	y	36:23	1.02	1920		-	-	*	Co-elute PCB 116
PCB-116	5.43e+07	1.58	y	36:23	1.02	1920		-	-	*	Co-elute PCB 85
PCB-120	1.73e+06	1.59	y	36:36	1.34	46.4		-	-	*	
PCB-110	5.31e+08	1.56	y	36:44	1.30	14700		-	-	*	
PCB-82	3.23e+07	1.57	y	37:21	0.75	1550		-	-	*	
PCB-124	1.56e+07	1.51	y	37:59	0.99	566		-	-	*	
PCB-108	2.68e+07	1.55	y	38:09	0.95	1010		-	-	*	Co-elute PCB 107
PCB-107	2.68e+07	1.55	y	38:09	0.95	1010		-	-	*	Co-elute PCB 108
PCB-123	5.21e+06	1.50	y	38:17	1.08	176		-	-	*	
13C-PCB-123	5.42e+07	1.58	y	38:16	0.97	2530					127
PCB-118	3.36e+08	1.55	y	38:27	0.91	13100		-	-	*	Co-elute PCB 106
PCB-106	3.36e+08	1.55	y	38:27	0.91	13100		-	-	*	Co-elute PCB 118
13C-PCB-118	5.65e+07	1.60	y	38:27	1.06	2420					121
PCB-114	8.13e+06	1.54	y	39:05	0.97	300		-	-	*	
13C-PCB-114	5.58e+07	1.58	y	39:04	1.04	2440					122
PCB-122	4.29e+06	1.53	y	39:12	0.95	163		-	-	*	
PCB-105	1.26e+08	1.51	y	39:55	0.94	4800		-	-	*	
13C-PCB-105	5.53e+07	1.59	y	39:53	1.03	2420					122

FAL ID: 10147-016-0001-SA Filename: 28SEP16Y Sam:21 Acquired: 29-SEP-16 10:11:13 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-IN-ENR-CB-CORE ConCal: ST092816Y2 EndCal: ST092816Y3
Results: 10147 GC Column: DB1 Amount: 5.020

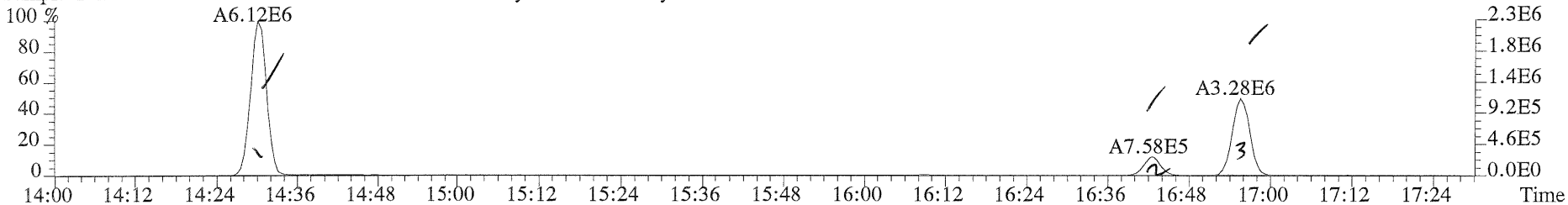
PCB-127	*	*	n	NotFnd	0.86	*		899	913	0.801		
PCB-126	1.70e+06	1.46	y	42:00	0.98	65.1		-	-	*		
13C-PCB-126	5.31e+07	1.61	y	41:60	0.91	2630					132	
PCB-151	4.52e+07	1.24	y	37:45	0.82	2160		-	-	*		
PCB-135	3.39e+07	1.24	y	37:56	0.88	1510		-	-	*		
PCB-144	1.25e+07	1.26	y	38:03	0.82	599		-	-	*		
PCB-147	7.66e+06	1.25	y	38:11	0.86	347		-	-	*		
PCB-139	2.15e+08	1.25	y	38:24	0.90	9290		-	-	*	Co-elute PCB 149	
PCB-149	2.15e+08	1.25	y	38:24	0.90	9290		-	-	*	Co-elute PCB 139	
PCB-140	1.81e+06	1.27	y	38:36	0.83	84.5		-	-	*		
PCB-143	1.78e+07	1.27	y	39:02	0.82	848		-	-	*	Co-elute PCB 134	
PCB-134	1.78e+07	1.27	y	39:02	0.82	848		-	-	*	Co-elute PCB 143	
PCB-131	8.55e+06	1.24	y	39:17	0.83	403		-	-	*	Co-elute PCB 133	
PCB-133	8.55e+06	1.24	y	39:17	0.83	403		-	-	*	Co-elute PCB 131	
PCB-142	6.73e+04	1.40	y	39:27	0.71	3.72	J	-	-	*		
PCB-165	3.75e+07	1.25	y	39:40	0.97	1510		-	-	*	Co-elute PCB 146	
PCB-146	3.75e+07	1.25	y	39:40	0.97	1510		-	-	*	Co-elute PCB 165	
PCB-161	1.16e+08	1.25	y	39:55	0.92	4890		-	-	*	Co-elute PCB 132	
PCB-132	1.16e+08	1.25	y	39:55	0.92	4890		-	-	*	Co-elute PCB 161	
PCB-153	2.34e+08	1.25	y	40:01	0.95	9670		-	-	*		
PCB-168	4.62e+05	1.23	y	40:14	1.05	17.1		-	-	*		
PCB-141	4.61e+07	1.24	y	40:44	0.81	2210		-	-	*		
PCB-137	1.92e+07	1.24	y	41:05	0.76	989		-	-	*		
PCB-130	1.93e+07	1.25	y	41:12	0.74	1010		-	-	*		
PCB-138	3.47e+08	1.24	y	41:32	1.10	12300		-	-	*	Co-elute PCB 163/164	
PCB-163	3.47e+08	1.24	y	41:32	1.10	12300		-	-	*	Co-elute PCB 138/164	
PCB-164	3.47e+08	1.24	y	41:32	1.10	12300		-	-	*	Co-elute PCB 138/163	
PCB-158	4.46e+07	1.23	y	41:45	1.06	1640		-	-	*	Co-elute PCB 160	
PCB-160	4.46e+07	1.23	y	41:45	1.06	1640		-	-	*	Co-elute PCB 158	
PCB-129	1.45e+07	1.23	y	42:00	0.66	850		-	-	*		
PCB-166	1.88e+06	1.20	y	42:26	0.99	74.2		-	-	*		
PCB-159	1.72e+06	1.28	y	42:47	1.05	63.8		-	-	*		
PCB-128	6.38e+07	1.25	y	43:01	0.90	2760		-	-	*	Co-elute PCB 162	
PCB-162	6.38e+07	1.25	y	43:01	0.90	2760		-	-	*	Co-elute PCB 128	
PCB-167	1.57e+07	1.24	y	43:24	0.94	615		-	-	*		
13C-PCB-167	5.39e+07	1.25	y	43:22	1.12	2170					109	
PCB-156	4.10e+07	1.24	y	44:36	0.99	1640		-	-	*		
13C-PCB-156	5.02e+07	1.26	y	44:34	1.07	2130					107	
PCB-157	9.76e+06	1.25	y	44:51	0.94	399		-	-	*		
13C-PCB-157	5.18e+07	1.24	y	44:51	1.10	2140					107	
PCB-169	*	*	n	NotFnd	0.95	*		987	1020	0.696		
13C-PCB-169	4.85e+07	1.24	y	46:43	0.98	2240					112	

FAL ID: 10147-016-0001-SA Filename: 28SEP16Y Sam:21 Acquired: 29-SEP-16 10:11:13 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-IN-ENR-CB-CORE ConCal: ST092816Y2 EndCal: ST092816Y3
Results: 10147 GC Column: DB1 Amount: 5.020

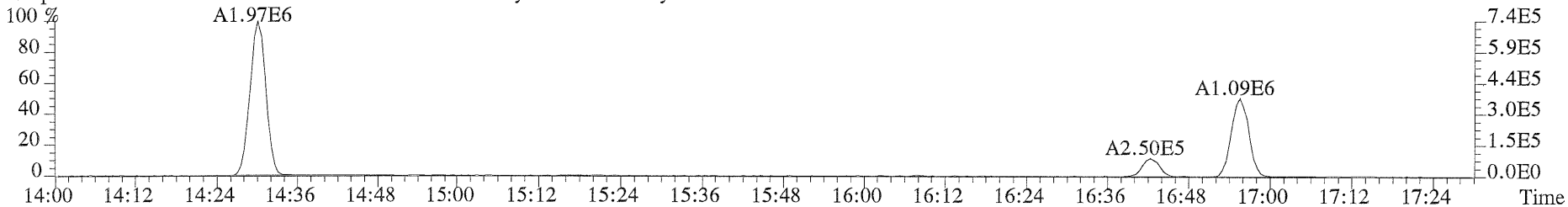
PCB-188	6.61e+04	1.14	y	39:41	1.11	2.53	J	-	-	*	
13C-PCB-188	4.69e+07	1.07	y	39:40	1.23	1720					86.4
PCB-184	5.91e+04	1.10	y	40:04	1.25	2.21	J	-	-	*	
PCB-179	1.53e+07	1.06	y	40:51	1.23	584		-	-	*	
PCB-176	5.43e+06	1.05	y	41:17	1.19	213		-	-	*	
PCB-186	*	*	n	NotFnd	1.18	*		1000	1030	0.706	
PCB-178	5.25e+06	1.06	y	42:19	0.85	287		-	-	*	
PCB-175	1.21e+06	1.00	y	42:39	0.89	63.3		-	-	*	
PCB-187	3.21e+07	1.05	y	42:47	0.95	1580		-	-	*	Co-elute PCB 182
PCB-182	3.21e+07	1.05	y	42:47	0.95	1580		-	-	*	Co-elute PCB 187
PCB-183	1.75e+07	1.05	y	43:05	0.95	857		-	-	*	
PCB-185	2.69e+06	1.05	y	43:43	0.86	147		-	-	*	
PCB-174	2.82e+07	1.06	y	44:05	0.89	1480		-	-	*	
PCB-181	*	*	n	NotFnd	0.82	*		1000	1030	1.02	
PCB-177	1.64e+07	1.06	y	44:20	0.74	1030		-	-	*	
PCB-171	9.20e+06	1.05	y	44:36	0.82	521		-	-	*	
PCB-173	8.06e+05	1.10	y	45:01	0.73	51.7		-	-	*	
PCB-172	4.85e+06	1.07	y	45:24	0.75	304		-	-	*	
PCB-192	*	*	n	NotFnd	0.96	*		1000	1030	0.863	
PCB-180	6.12e+07	1.04	y	45:45	0.98	2910		-	-	*	
PCB-193	3.47e+06	1.03	y	45:55	1.05	154		-	-	*	
PCB-191	1.66e+06	1.04	y	46:08	0.97	79.7		-	-	*	
PCB-170	2.97e+07	1.06	y	47:02	0.64	2150		-	-	*	
PCB-190	7.17e+06	1.05	y	47:12	0.88	379		-	-	*	
PCB-189	1.71e+06	1.03	y	48:25	1.10	80.8		-	-	*	
13C-PCB-189	3.85e+07	1.06	y	48:23	0.90	1930					97.0
PCB-202	1.71e+06	0.91	y	44:48	0.95	97.4		-	-	*	
PCB-201	1.20e+06	0.92	y	45:14	0.92	70.2		-	-	*	
PCB-204	*	*	n	NotFnd	0.92	*		701	744	0.825	
PCB-197	3.59e+05	0.83	y	45:39	0.93	21.0		-	-	*	
PCB-200	1.10e+06	0.88	y	46:23	0.88	67.6		-	-	*	
PCB-198	2.70e+05	0.89	y	47:34	0.60	24.3		-	-	*	
PCB-199	6.69e+06	0.87	y	47:40	0.55	652		-	-	*	
PCB-203	7.61e+06	0.88	y	47:55	0.64	638		-	-	*	Co-elute PCB 196
PCB-196	7.61e+06	0.88	y	47:55	0.64	638		-	-	*	Co-elute PCB 203
13C-PCB-202	3.68e+07	0.92	y	44:46	1.00	1660					83.5
13C-PCB-178	3.61e+07	1.08	y	42:18	0.84	1950					97.8
13C-PCB-138	4.40e+07	1.27	y	41:30	-	8.98					
PCB-195	2.80e+06	0.90	y	49:01	0.75	203		-	-	*	
PCB-194	8.19e+06	0.90	y	49:49	0.76	584		-	-	*	
PCB-205	5.11e+05	0.95	y	50:04	1.00	27.6		-	-	*	
13C-PCB-205	3.67e+07	0.91	y	50:03	1.27	1960					98.5
PCB-208	1.40e+06	1.33	y	49:08	0.93	81.9		-	-	*	
13C-PCB-208	3.65e+07	0.79	y	49:08	1.49	1660					83.4
PCB-207	4.31e+05	1.33	y	49:26	1.00	27.7		-	-	*	
PCB-206	4.30e+06	1.33	y	51:16	0.99	337		-	-	*	
13C-PCB-206	2.55e+07	0.79	y	51:15	1.02	1700					85.4
PCB-209	1.03e+07	1.16	y	52:27	1.06	608		-	-	*	
13C-PCB-209	3.19e+07	1.19	y	52:27	1.58	1380					69.1
13C-PCB-194	2.93e+07	0.92	y	49:48	-	11.2					

Analyst: _____ Date: 10/12/16

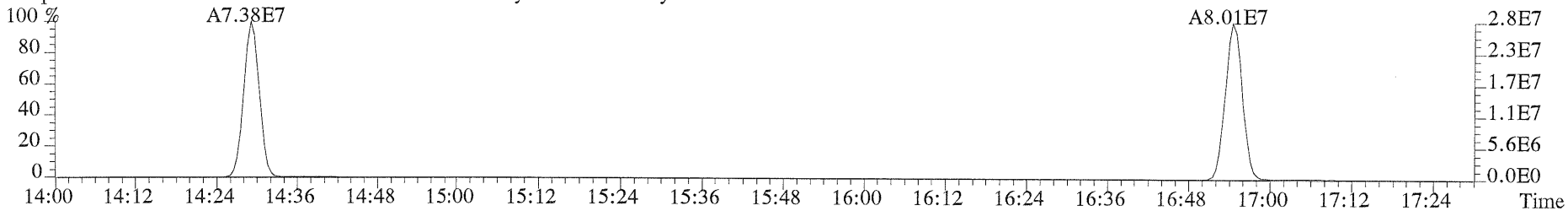
File:28SEP16Y #1-784 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:21 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



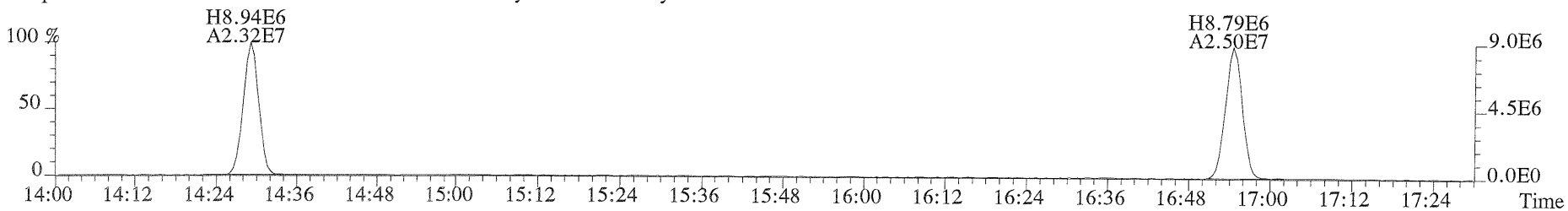
File:28SEP16Y #1-784 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:21 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



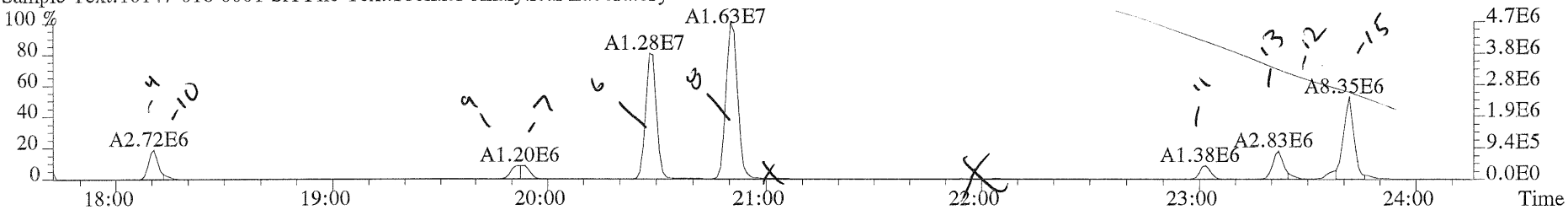
File:28SEP16Y #1-784 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:21 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



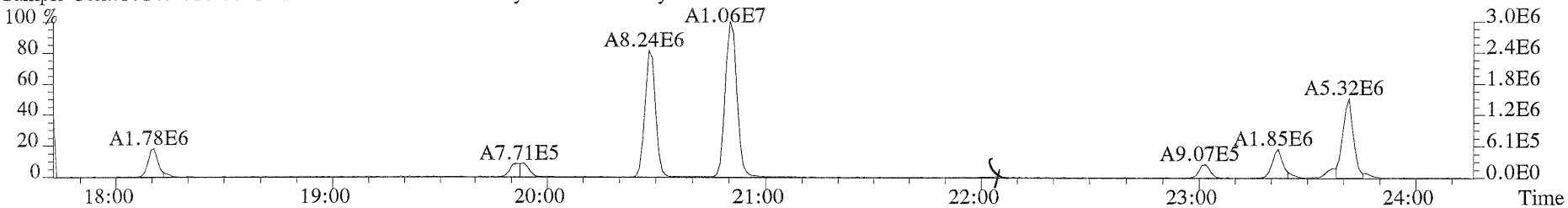
File:28SEP16Y #1-784 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:21 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



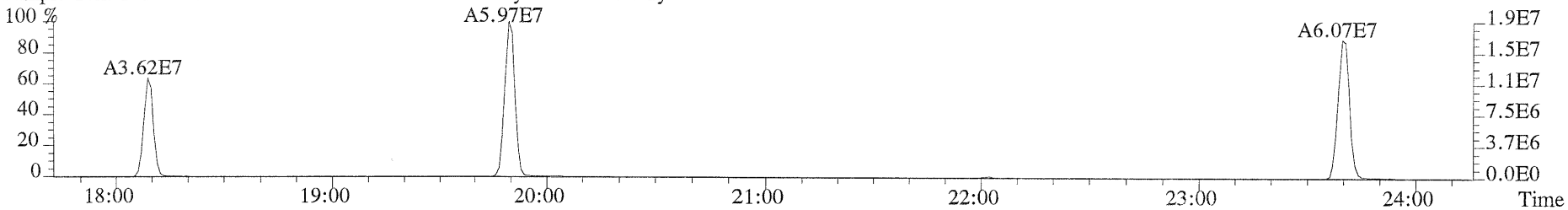
File:28SEP16Y #1-509 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:21 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



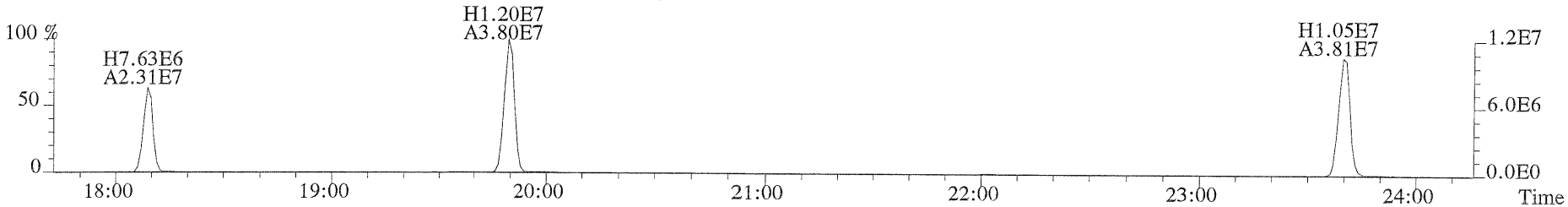
File:28SEP16Y #1-509 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:21 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



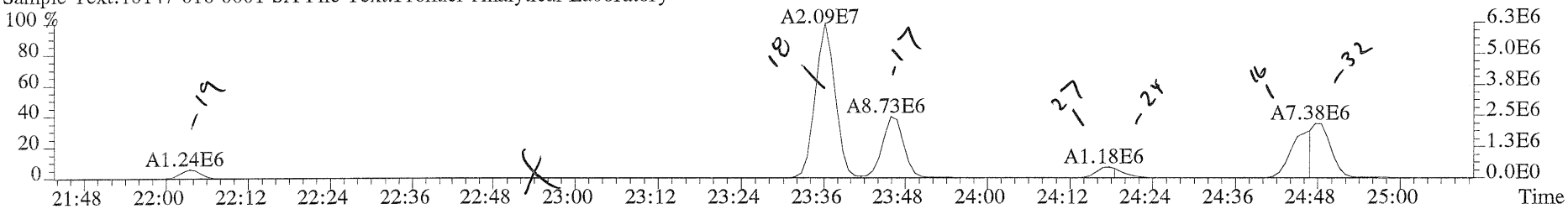
File:28SEP16Y #1-509 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:21 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



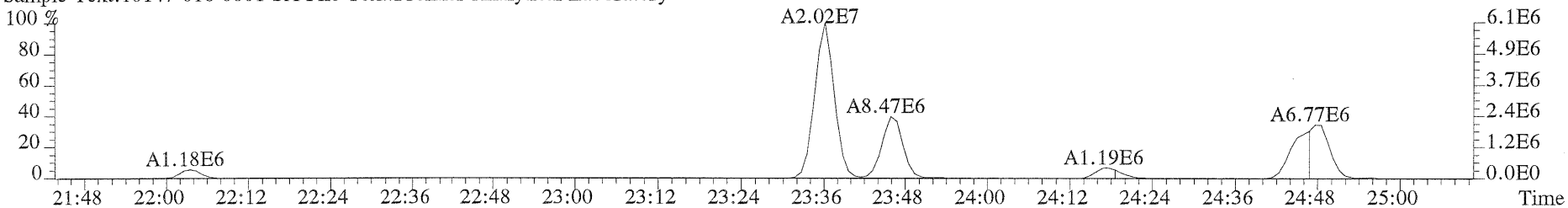
File:28SEP16Y #1-509 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:21 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



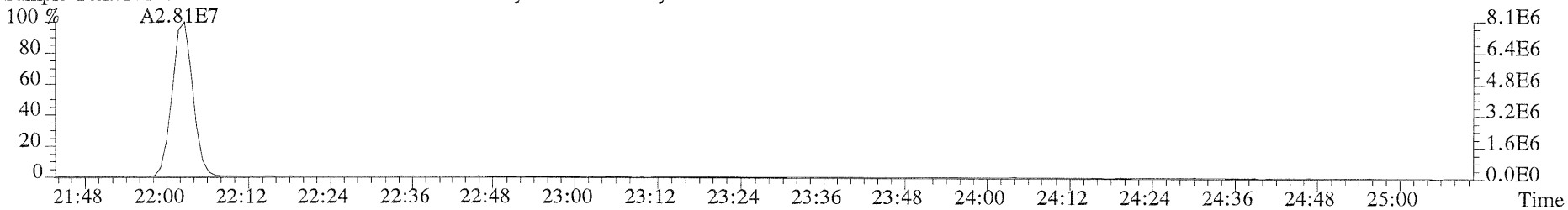
File:28SEP16Y #1-509 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:21 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



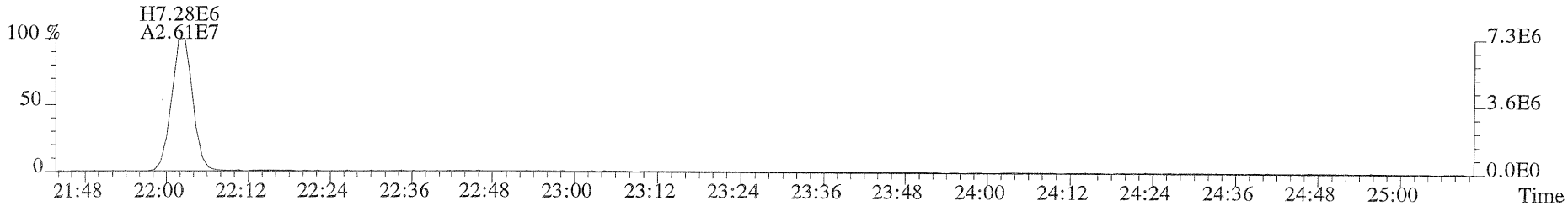
File:28SEP16Y #1-509 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:21 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



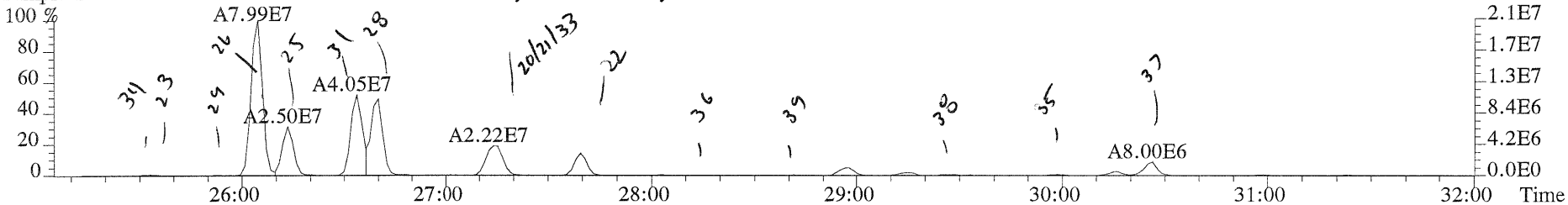
File:28SEP16Y #1-509 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:21 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



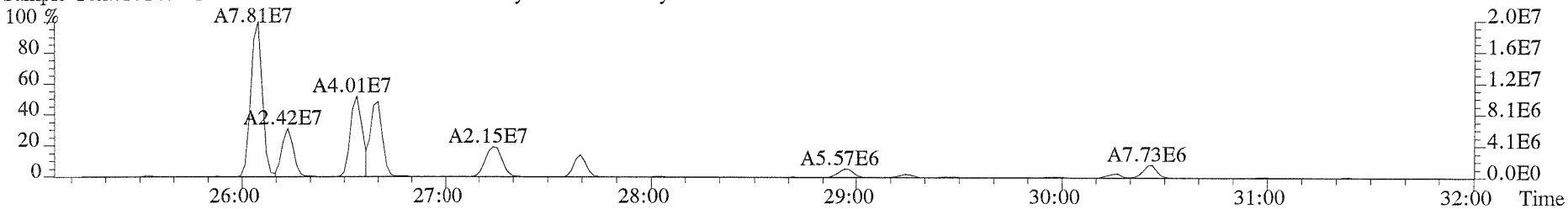
File:28SEP16Y #1-509 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:21 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



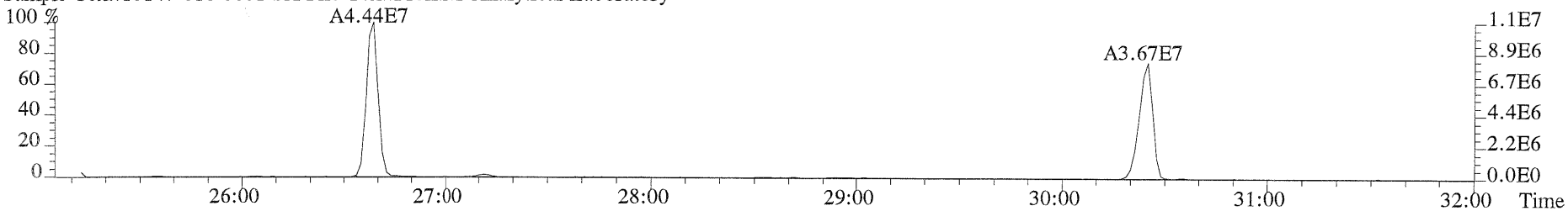
File:28SEP16Y #1-403 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:21 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



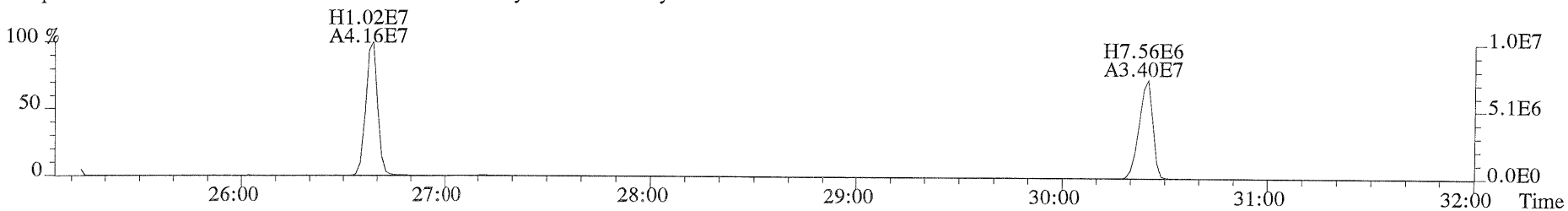
File:28SEP16Y #1-403 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:21 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



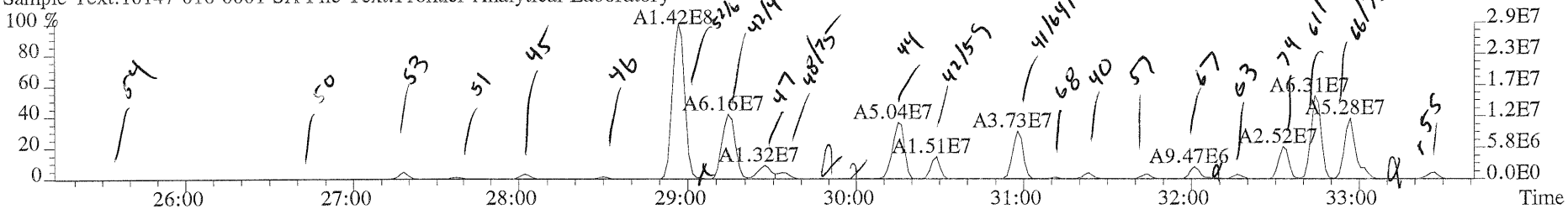
File:28SEP16Y #1-403 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:21 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



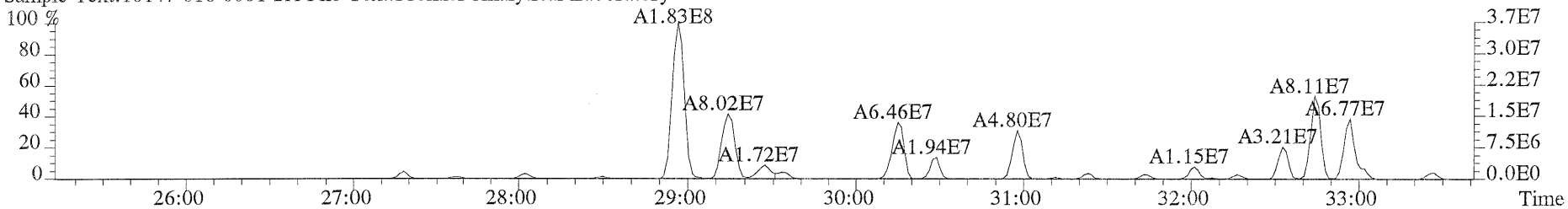
File:28SEP16Y #1-403 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:21 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



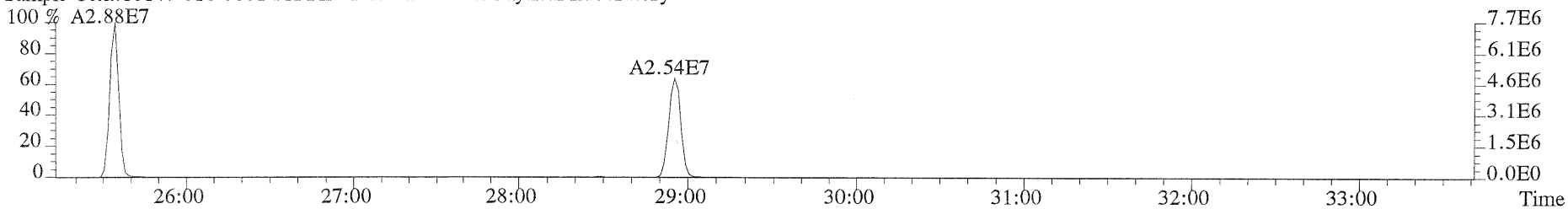
File:28SEP16Y #1-403 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:21 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



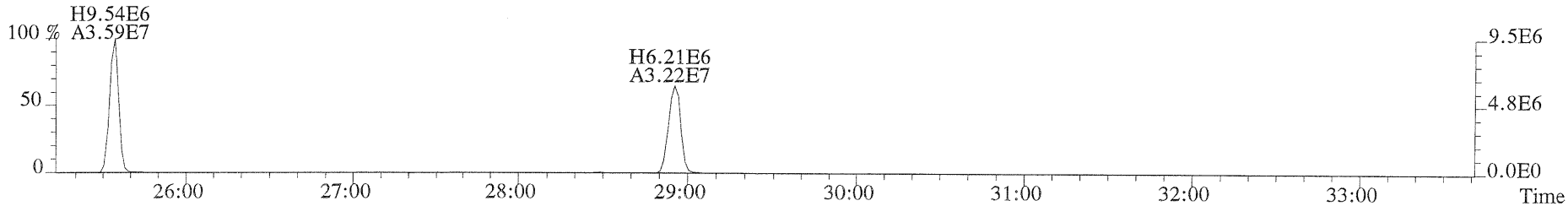
File:28SEP16Y #1-403 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:21 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



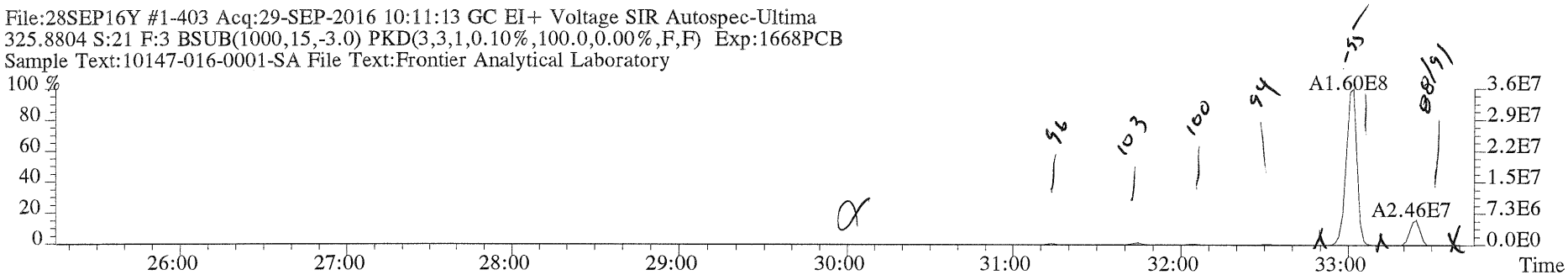
File:28SEP16Y #1-403 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:21 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



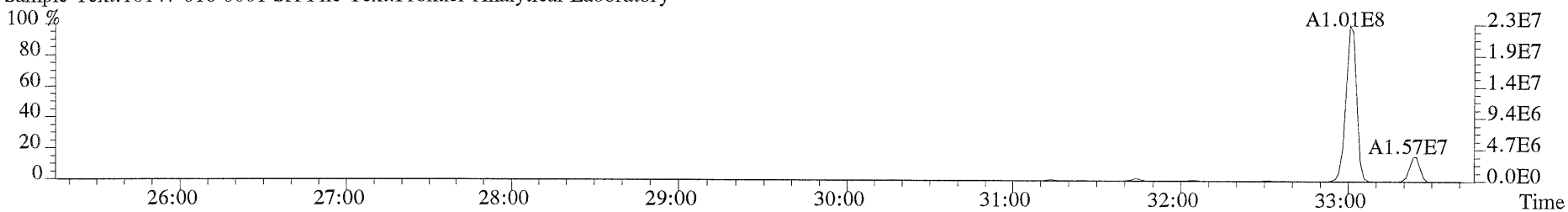
File:28SEP16Y #1-403 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:21 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



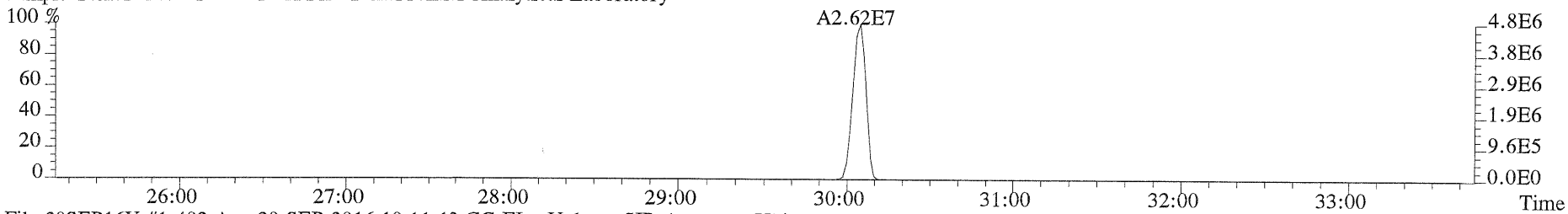
File:28SEP16Y #1-403 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:21 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



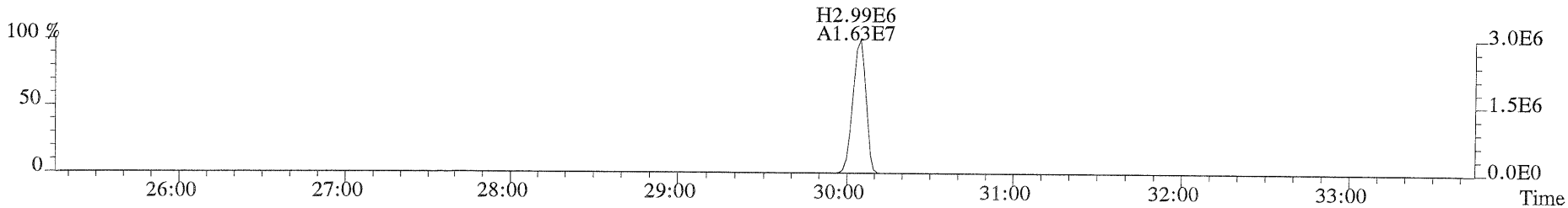
File:28SEP16Y #1-403 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:21 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



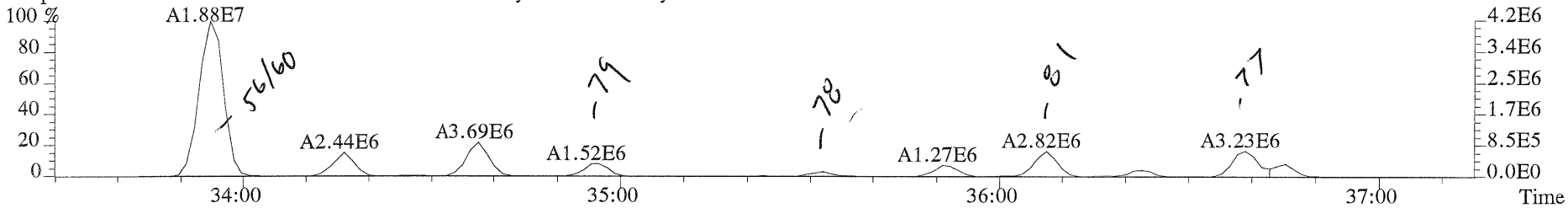
File:28SEP16Y #1-403 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:21 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



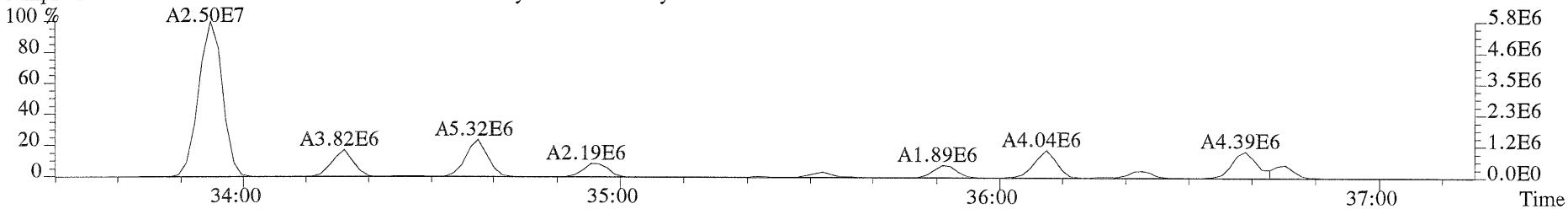
File:28SEP16Y #1-403 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:21 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



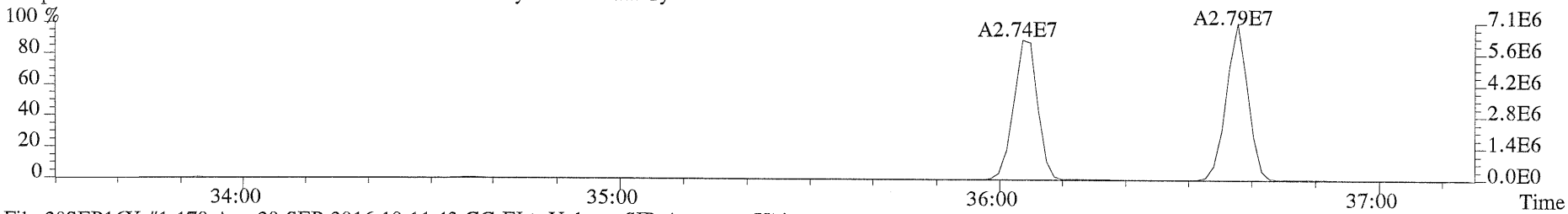
File:28SEP16Y #1-178 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:21 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



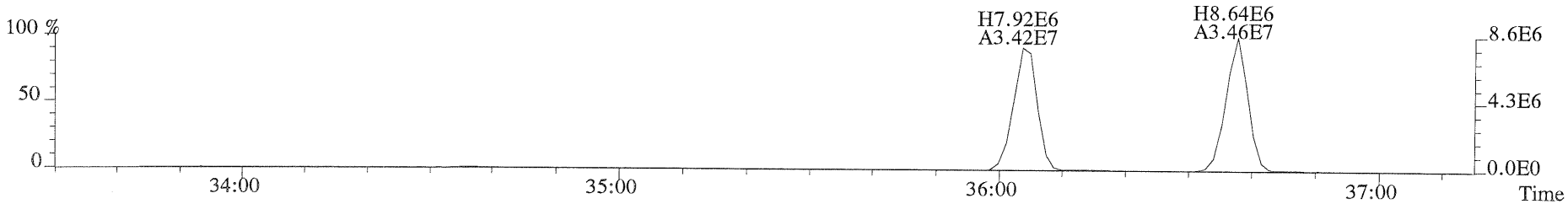
File:28SEP16Y #1-178 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:21 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



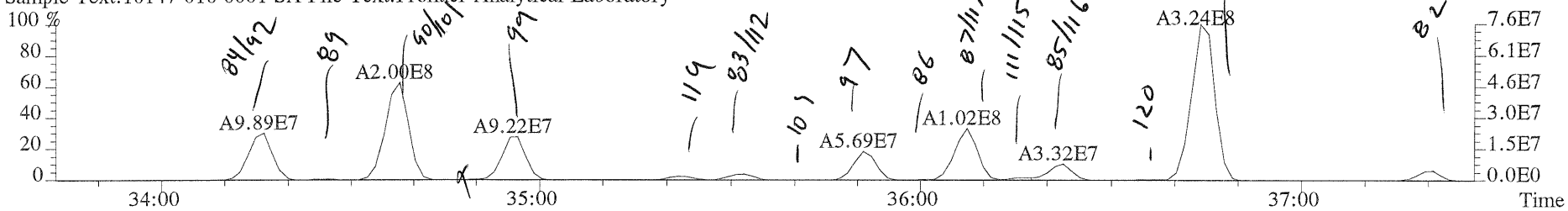
File:28SEP16Y #1-178 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:21 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



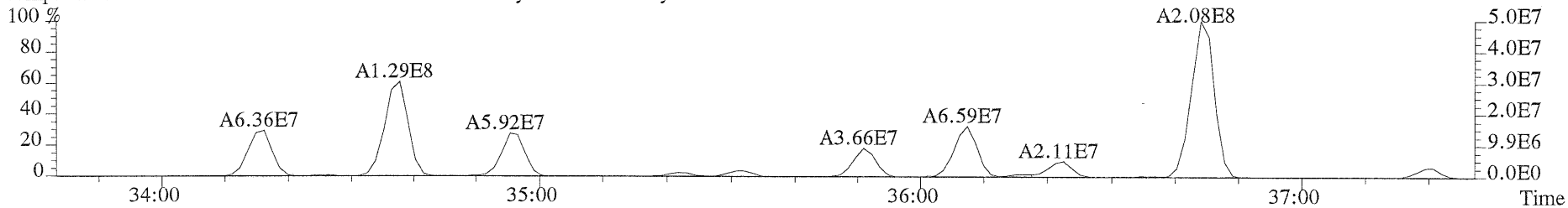
File:28SEP16Y #1-178 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:21 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



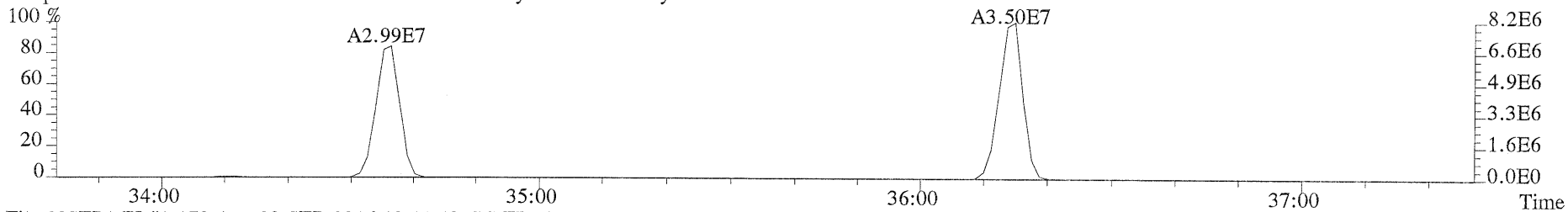
File:28SEP16Y #1-178 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:21 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



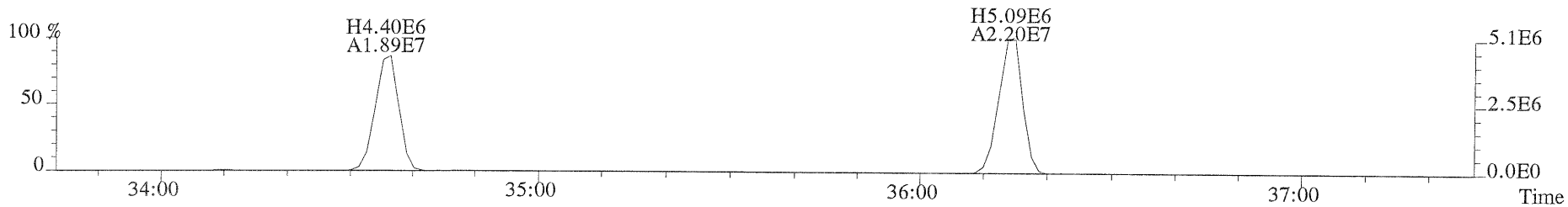
File:28SEP16Y #1-178 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:21 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



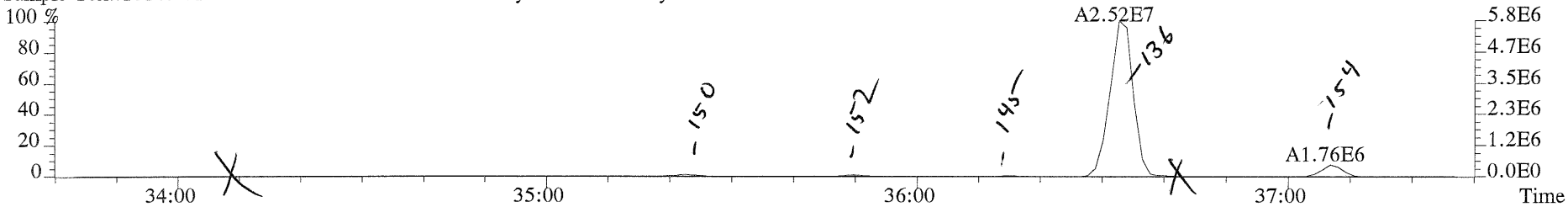
File:28SEP16Y #1-178 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:21 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



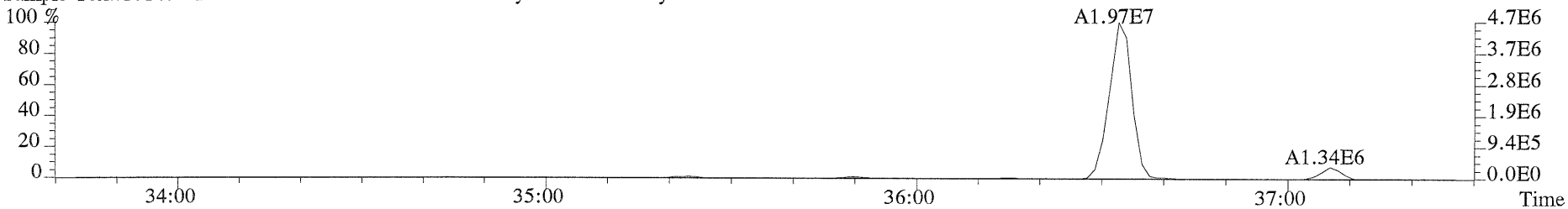
File:28SEP16Y #1-178 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:21 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



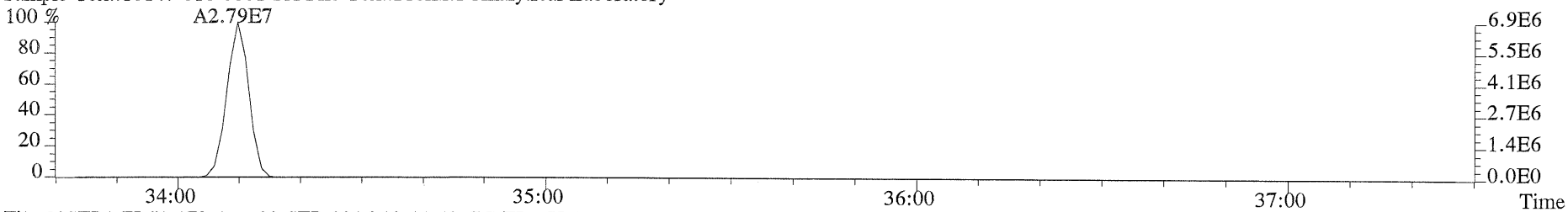
File:28SEP16Y #1-178 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:21 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



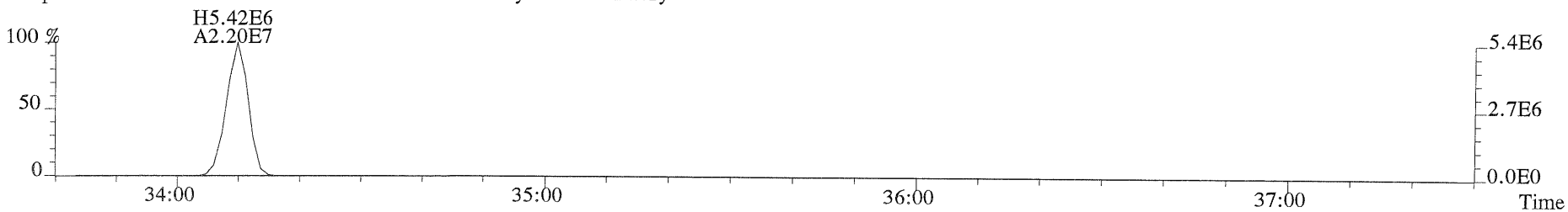
File:28SEP16Y #1-178 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:21 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



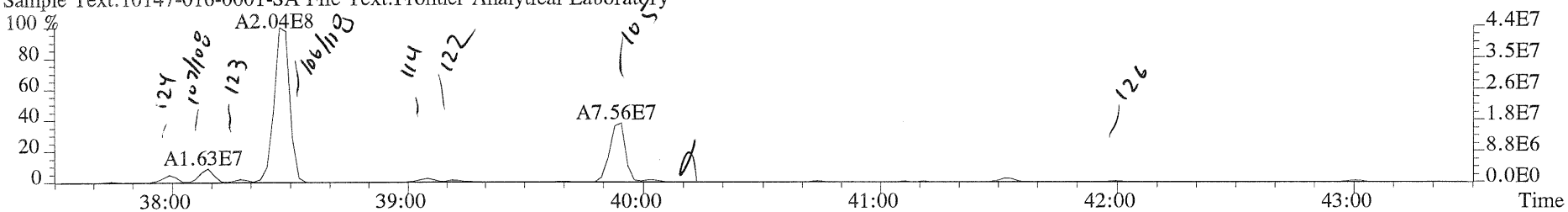
File:28SEP16Y #1-178 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:21 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



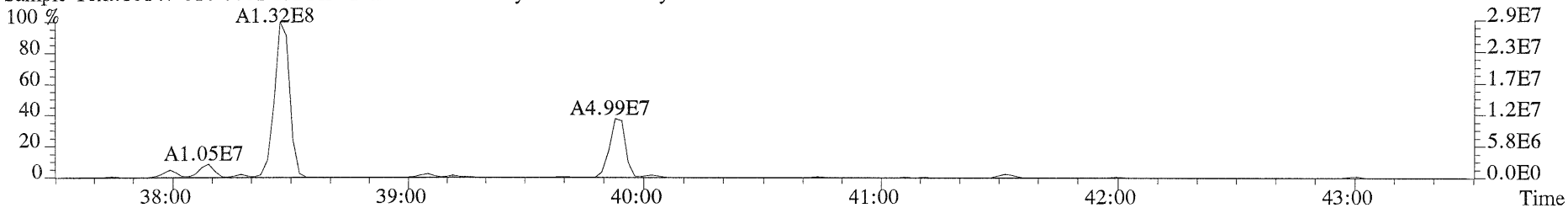
File:28SEP16Y #1-178 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:21 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



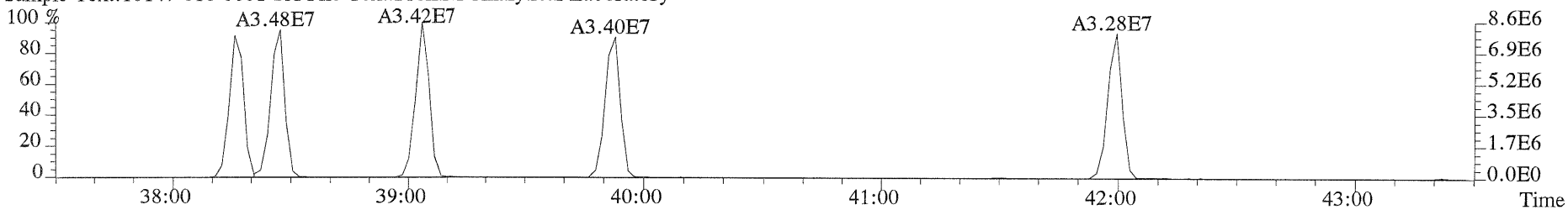
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:21 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



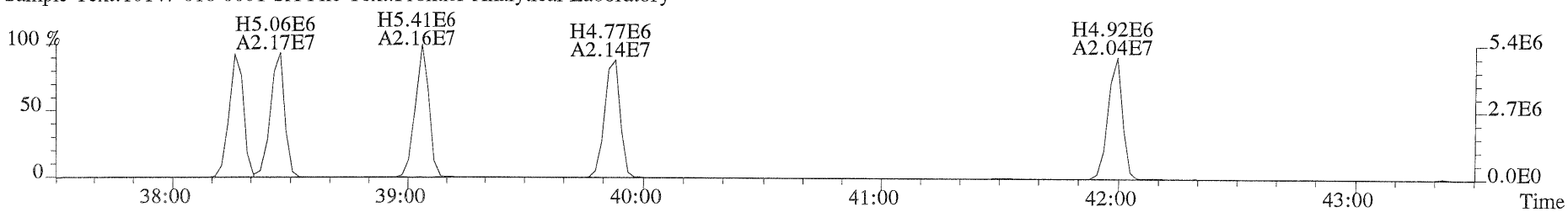
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:21 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



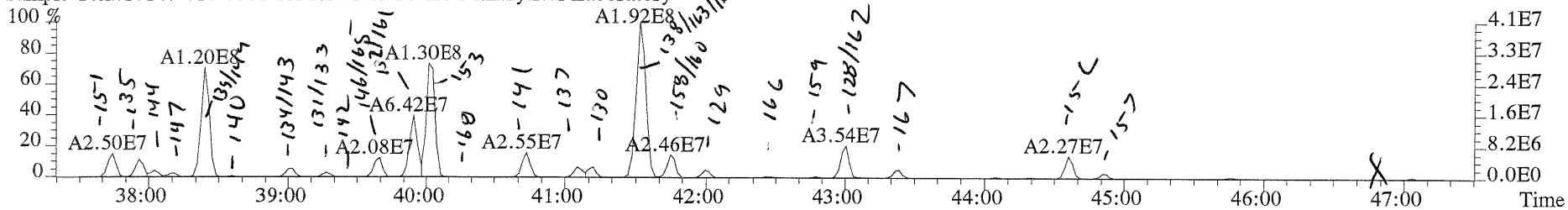
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:21 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



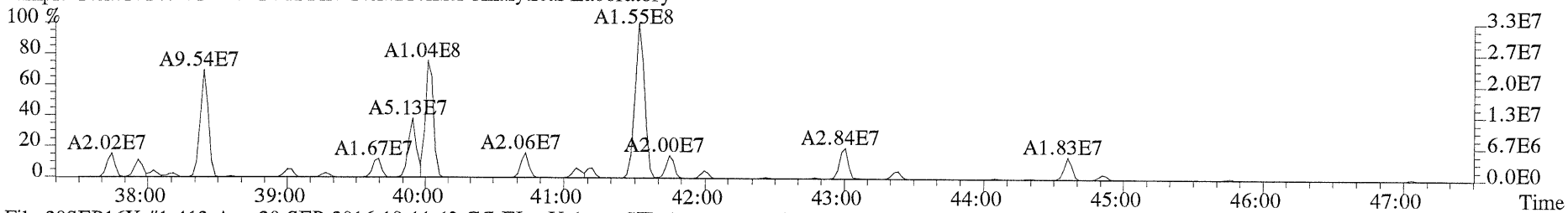
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:21 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



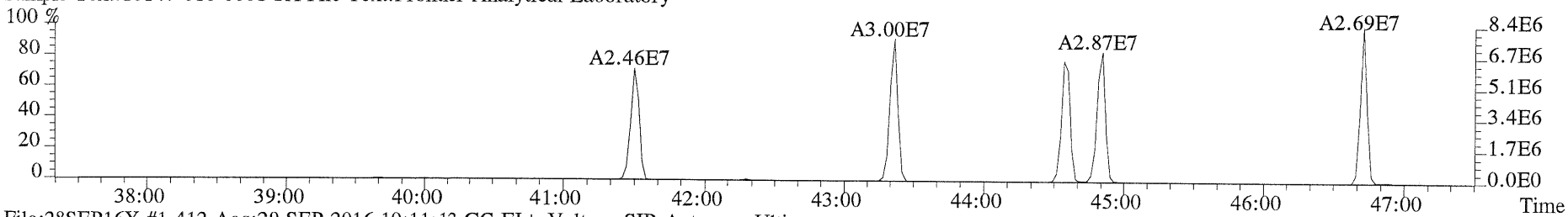
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:21 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



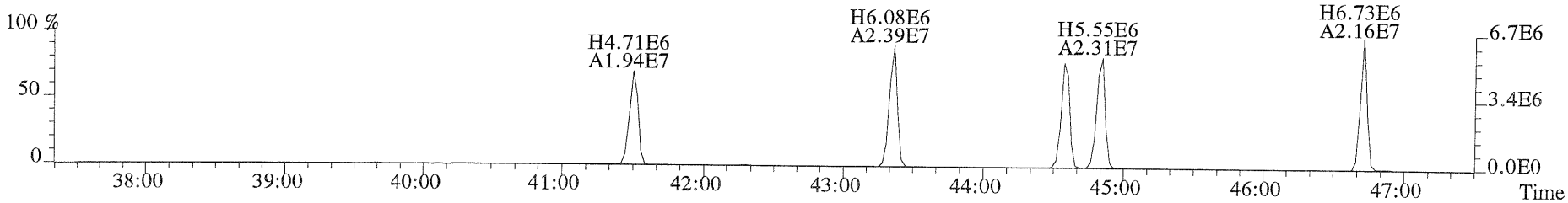
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:21 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



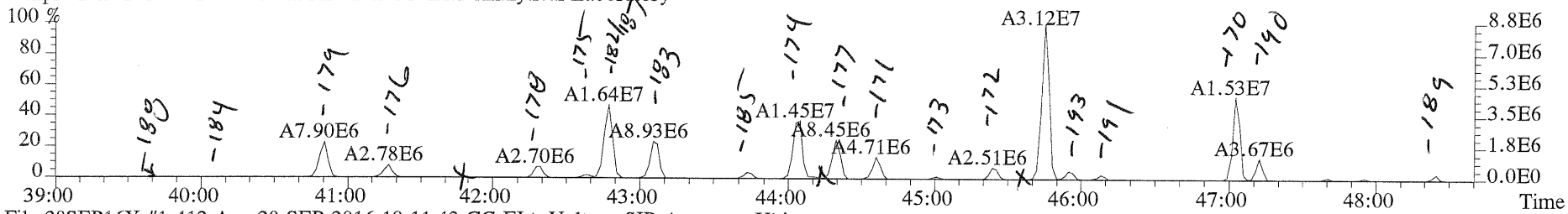
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:21 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



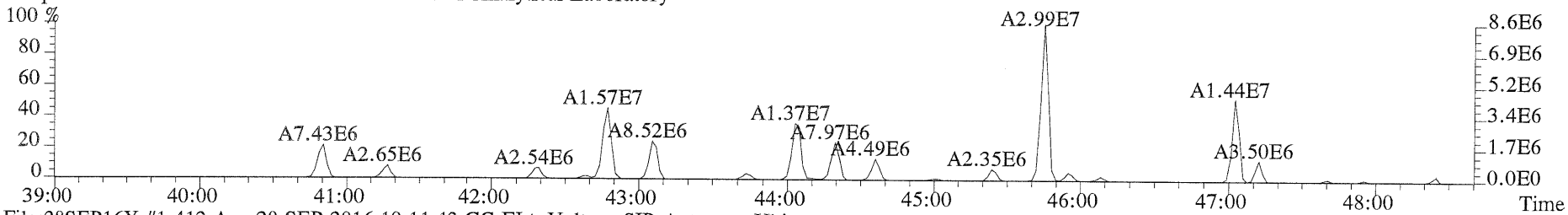
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:21 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



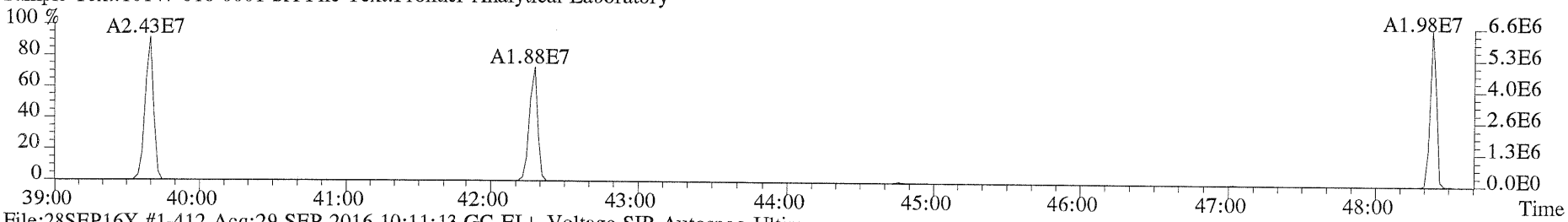
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:21 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



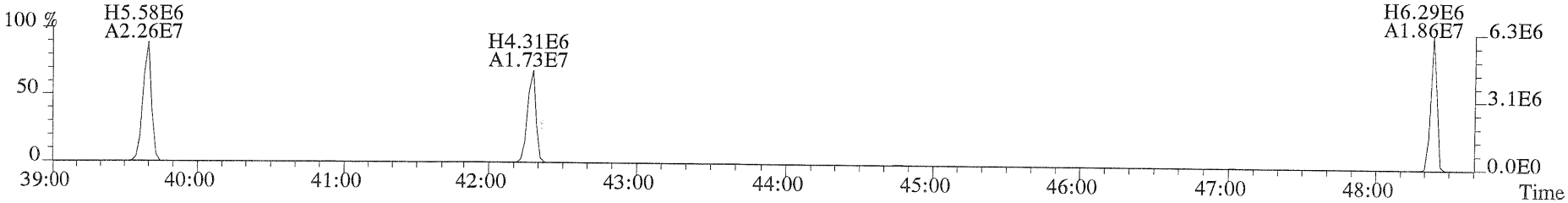
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:21 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



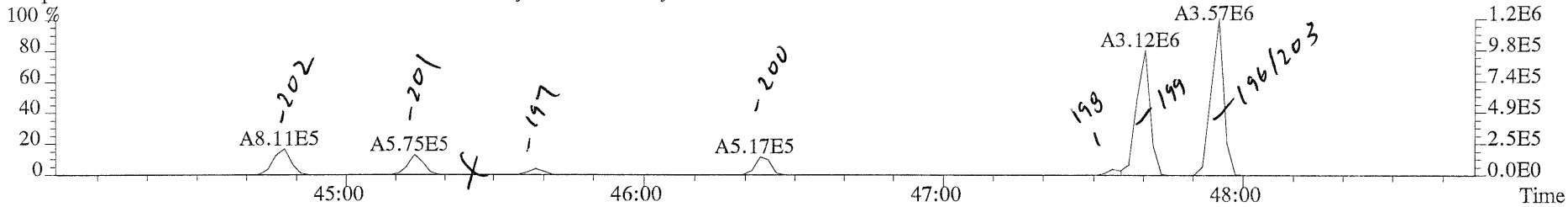
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:21 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



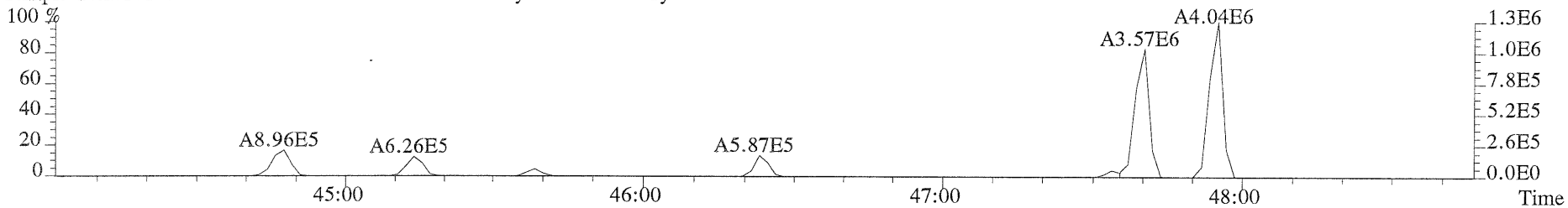
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:21 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



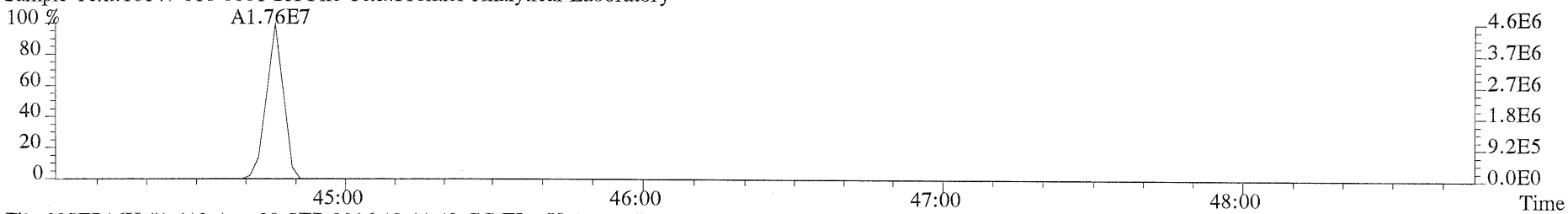
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:21 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



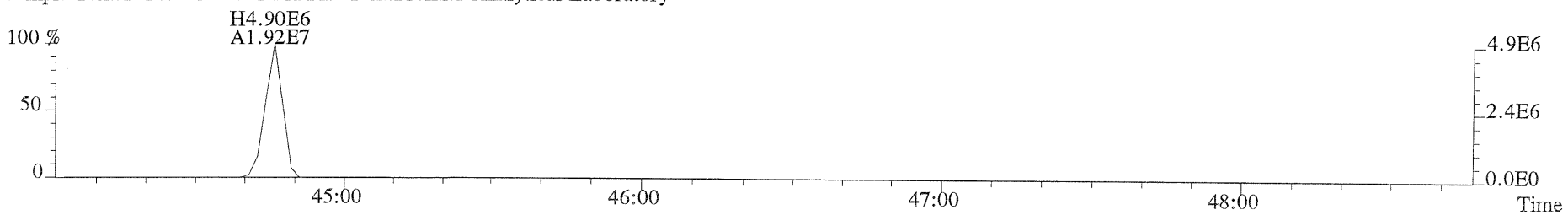
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:21 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



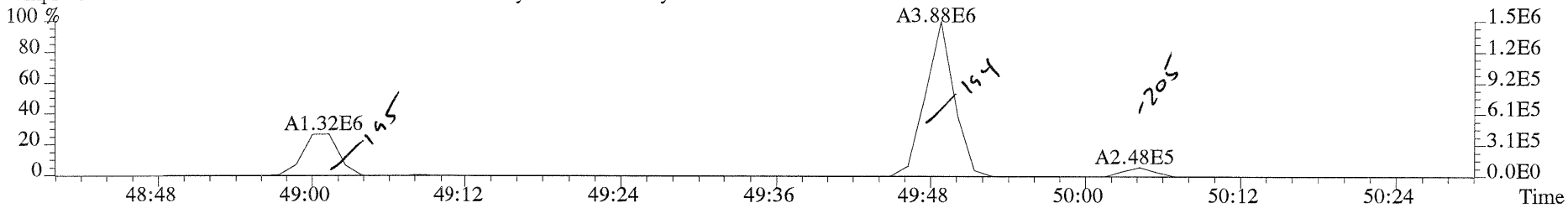
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:21 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



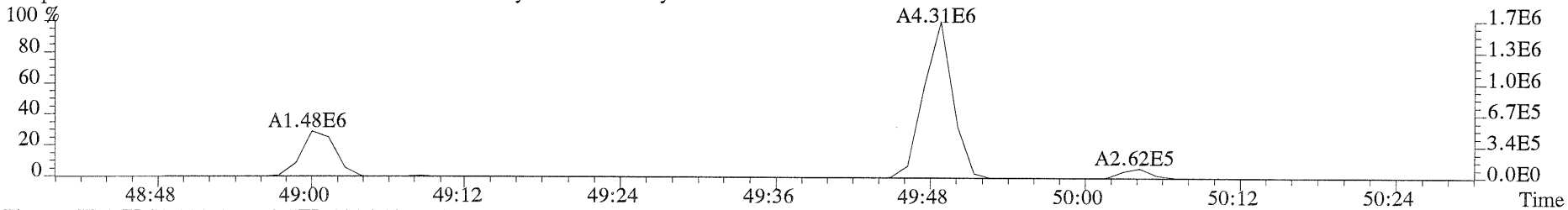
File:28SEP16Y #1-412 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:21 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



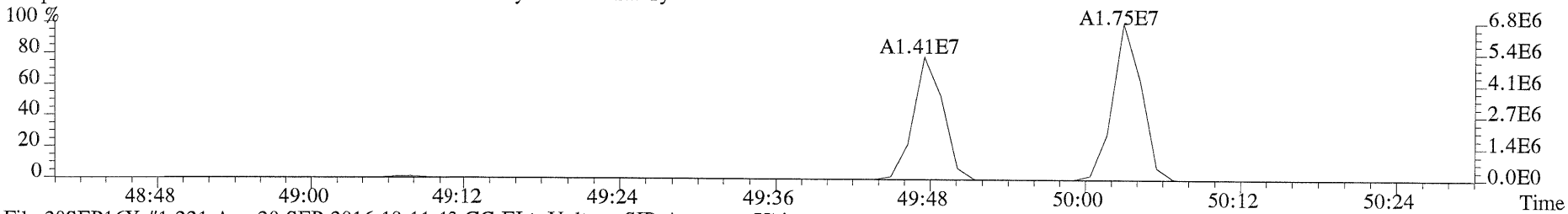
File:28SEP16Y #1-221 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:21 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



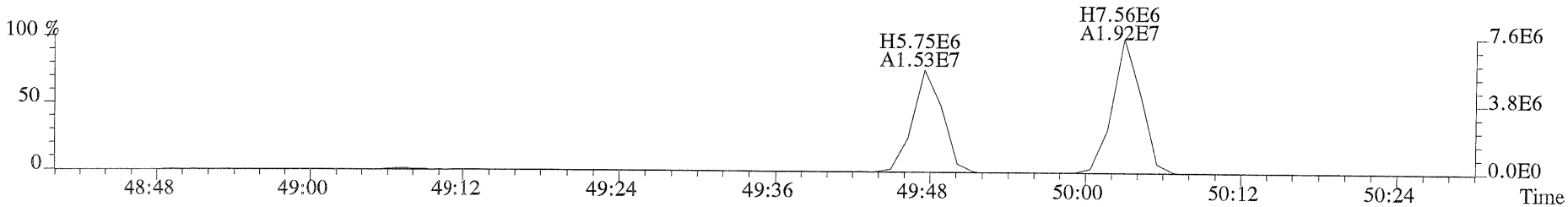
File:28SEP16Y #1-221 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:21 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



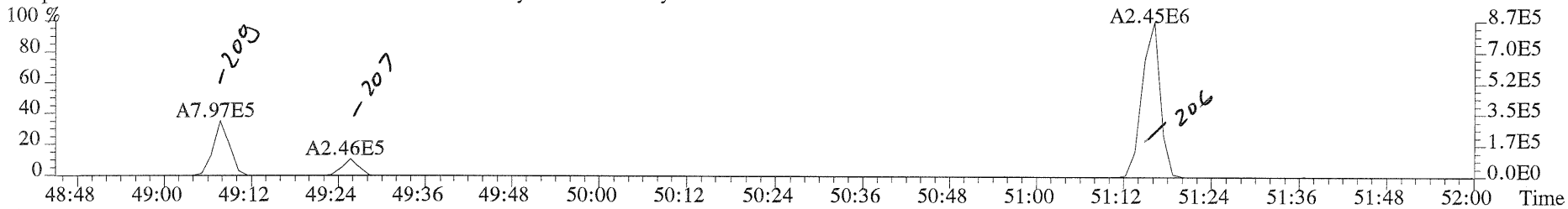
File:28SEP16Y #1-221 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:21 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



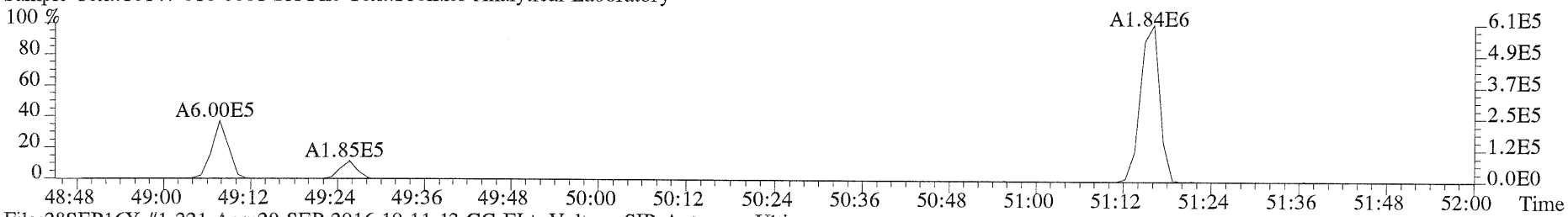
File:28SEP16Y #1-221 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:21 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



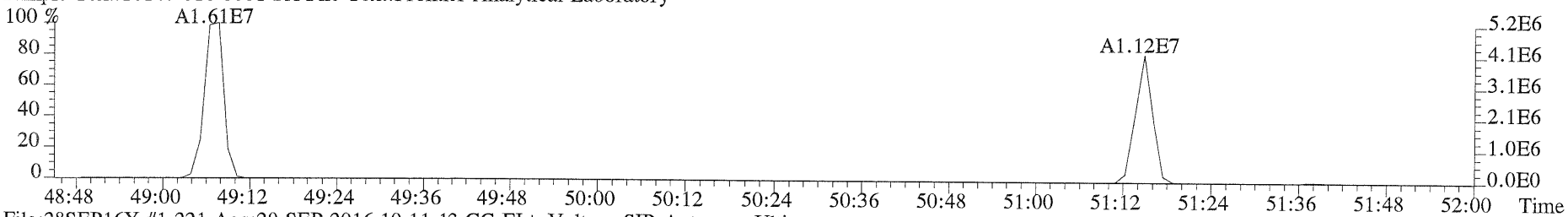
File:28SEP16Y #1-221 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:21 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



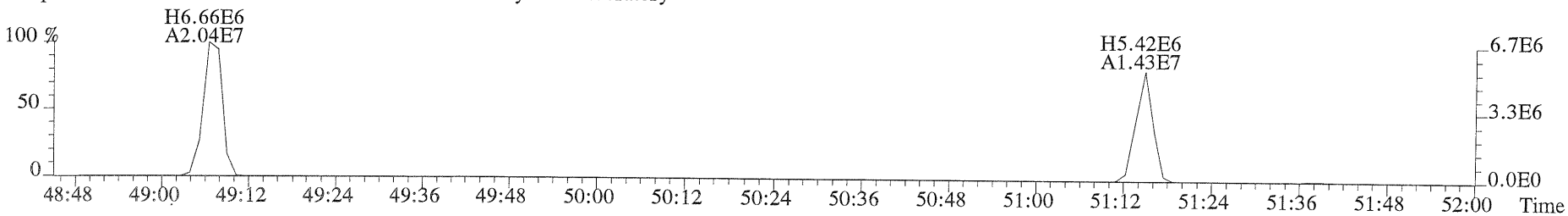
File:28SEP16Y #1-221 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:21 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



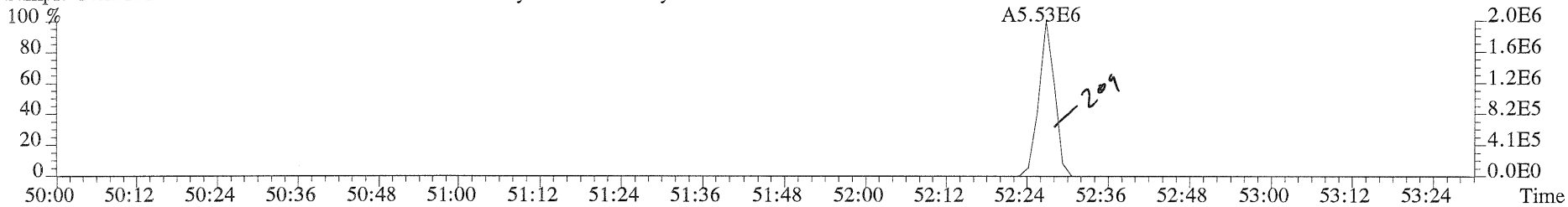
File:28SEP16Y #1-221 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:21 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



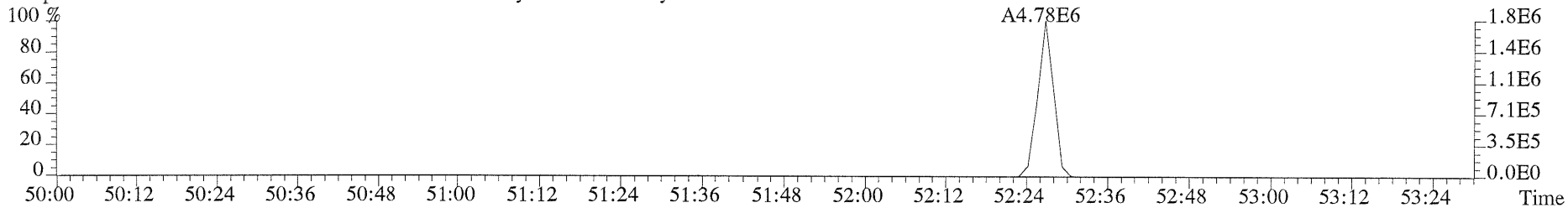
File:28SEP16Y #1-221 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:21 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



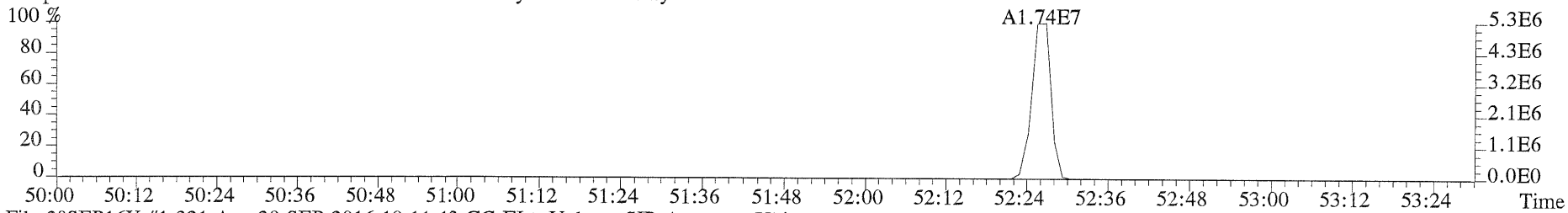
File:28SEP16Y #1-221 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:21 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



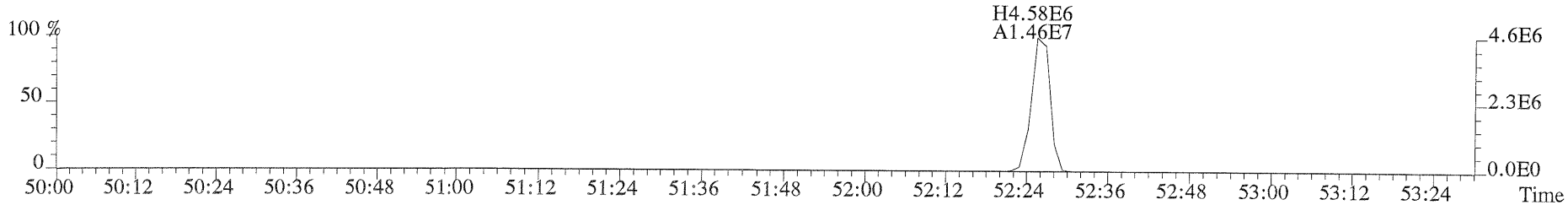
File:28SEP16Y #1-221 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:21 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:21 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 10:11:13 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:21 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-016-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10147-017-0001-SA Filename: 28SEP16Y Sam:22 Acquired: 29-SEP-16 11:07:43 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-IN-ENR-CC-CORE ConCal: ST092816Y2 EndCal: ST092816Y3
Results: 10147 GC Column: DB1 Amount: 5.030

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	9.29e+07	3.10 y	14:30	1.00	1760		-	-	*	
13C-PCB-1	1.05e+08	3.15 y	14:29	1.29	1590					80.0
PCB-2	1.23e+07	3.07 y	16:42	0.91	250		-	-	*	
PCB-3	5.83e+07	3.11 y	16:55	0.96	1100		-	-	*	
13C-PCB-3	1.09e+08	3.24 y	16:54	1.26	1690					85.1
PCB-4	2.00e+07	1.53 y	18:10	0.95	666		-	-	*	
PCB-10	2.41e+06	1.58 y	18:13	1.14	50.9		-	-	*	
13C-PCB-4	6.27e+07	1.55 y	18:09	0.64	1900					95.8
PCB-9	1.17e+07	1.59 y	19:51	1.21	233		-	-	*	
PCB-7	7.73e+06	1.48 y	19:54	1.16	161		-	-	*	
PCB-6	3.09e+07	1.57 y	20:29	1.14	655		-	-	*	
PCB-8	9.68e+07	1.54 y	20:50	1.15	2040		-	-	*	
PCB-5	*	* n	NotFnd	1.17	*		2050	2310	0.734	
PCB-14	*	* n	NotFnd	1.14	*		2050	2310	0.753	
PCB-11	2.05e+06	1.47 y	23:02	1.10	44.8		-	-	*	
PCB-13	1.44e+07	1.53 y	23:22	1.08	323		-	-	*	
PCB-12	5.64e+06	1.58 y	23:24	1.17	117		-	-	*	
PCB-15	6.95e+07	1.57 y	23:41	1.08	1250		-	-	*	
13C-PCB-15	1.02e+08	1.58 y	23:39	1.00	1990					100
PCB-19	1.32e+06	1.04 y	22:03	1.04	44.3		-	-	*	
PCB-30	*	* n	NotFnd	1.45	*		1950	1980	0.821	
PCB-18	1.90e+07	1.04 y	23:36	1.01	655		-	-	*	
PCB-17	8.68e+06	1.06 y	23:46	1.08	282		-	-	*	
PCB-27	1.30e+06	1.02 y	24:17	1.55	29.4		-	-	*	
PCB-24	8.99e+05	1.10 y	24:18	1.32	23.8		-	-	*	
PCB-16	5.65e+06	1.02 y	24:46	1.15	172		-	-	*	
PCB-32	8.12e+06	1.06 y	24:47	1.34	212		-	-	*	
13C-PCB-19	5.69e+07	1.07 y	22:02	0.66	1670					84.2
13C-PCB-9	1.02e+08	1.59 y	19:49	-	12.2					
PCB-34	4.14e+05	1.16 y	25:33	0.81	13.1		-	-	*	
PCB-23	6.70e+04	1.17 y	25:38	0.90	1.91	J	-	-	*	
PCB-29	3.68e+05	1.09 y	25:53	0.90	10.6		-	-	*	
PCB-26	2.30e+07	1.02 y	26:04	0.97	613		-	-	*	
PCB-25	8.58e+06	1.01 y	26:13	1.21	183		-	-	*	
PCB-31	3.59e+07	1.00 y	26:33	0.97	949		-	-	*	
PCB-28	4.10e+07	1.04 y	26:40	1.08	981		-	-	*	
PCB-20	2.27e+07	1.03 y	27:15	1.02	572		-	-	*	Co-elute PCB 21/33
PCB-21	2.27e+07	1.03 y	27:15	1.02	572		-	-	*	Co-elute PCB 20/33
PCB-33	2.27e+07	1.03 y	27:15	1.02	572		-	-	*	Co-elute PCB 20/21
PCB-22	1.25e+07	1.03 y	27:39	1.08	299		-	-	*	
PCB-36	*	* n	NotFnd	0.96	*		1010	1030	0.518	
PCB-39	1.02e+05	1.00 y	28:41	1.00	2.64	J	-	-	*	
PCB-38	2.77e+05	0.96 y	29:27	0.91	7.82		-	-	*	
PCB-35	9.74e+05	1.17 y	29:58	1.01	24.8		-	-	*	
PCB-37	1.87e+06	0.97 y	30:15	1.08	44.8		-	-	*	
13C-PCB-37	7.72e+07	1.07 y	30:24	1.03	2410					121

PCB-54	8.98e+04	0.77	y	25:35	1.04	2.50	J	-	-	*	
PCB-50	1.17e+05	0.75	y	26:42	0.79	4.29		-	-	*	
PCB-53	4.49e+06	0.80	y	27:18	0.80	163		-	-	*	
PCB-51	1.41e+06	0.77	y	27:38	0.84	48.8		-	-	*	
PCB-45	3.72e+06	0.80	y	28:02	0.72	151		-	-	*	
PCB-46	1.44e+06	0.76	y	28:30	0.69	60.2		-	-	*	
PCB-52	8.86e+07	0.78	y	28:56	0.99	2590		-	-	*	Co-elute PCB 69
PCB-69	8.86e+07	0.78	y	28:56	0.99	2590		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.07	*		1310	1430	0.677	
PCB-43	4.01e+07	0.78	y	29:14	0.79	1480		-	-	*	Co-elute PCB 49
PCB-49	4.01e+07	0.78	y	29:14	0.79	1480		-	-	*	Co-elute PCB 43
PCB-47	1.09e+07	0.77	y	29:27	1.07	295		-	-	*	
PCB-48	6.58e+06	0.80	y	29:33	0.94	203		-	-	*	Co-elute PCB 75
PCB-75	6.58e+06	0.80	y	29:33	0.94	203		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.99	*		1310	1430	0.730	
PCB-62	*	*	n	NotFnd	0.99	*		1310	1430	0.728	
PCB-44	3.76e+07	0.77	y	30:15	0.73	1480		-	-	*	
PCB-42	1.15e+07	0.78	y	30:26	0.98	339		-	-	*	Co-elute PCB 59
PCB-59	1.15e+07	0.78	y	30:26	0.98	339		-	-	*	Co-elute PCB 42
PCB-72	3.50e+07	0.78	y	30:58	1.09	933		-	-	*	Co-elute PCB 41/71/64
PCB-41	3.50e+07	0.78	y	30:58	1.09	933		-	-	*	Co-elute PCB 72/71/64
PCB-71	3.50e+07	0.78	y	30:58	1.09	933		-	-	*	Co-elute PCB 72/41/64
PCB-64	3.50e+07	0.78	y	30:58	1.09	933		-	-	*	Co-elute PCB 72/41/71
PCB-68	5.31e+05	0.76	y	31:10	1.12	13.7		-	-	*	
PCB-40	3.86e+06	0.77	y	31:23	0.63	176		-	-	*	
PCB-57	9.42e+05	0.80	y	31:43	1.08	25.2		-	-	*	
PCB-67	3.02e+06	0.79	y	32:01	1.07	81.6		-	-	*	
PCB-58	3.08e+05	0.75	y	32:07	1.08	8.23		-	-	*	
PCB-63	2.57e+06	0.79	y	32:16	1.08	69.0		-	-	*	
PCB-74	2.74e+07	0.77	y	32:33	1.18	670		-	-	*	
PCB-61	8.22e+07	0.78	y	32:44	1.15	2060		-	-	*	Co-elute PCB 70
PCB-70	8.22e+07	0.78	y	32:44	1.15	2060		-	-	*	Co-elute PCB 61
PCB-76	5.38e+07	0.78	y	32:57	1.13	1370		-	-	*	Co-elute PCB 66
PCB-66	5.38e+07	0.78	y	32:57	1.13	1370		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.27	*		1310	1430	0.570	
PCB-55	2.36e+06	0.78	y	33:26	1.13	60.5		-	-	*	
13C-PCB-54	6.87e+07	0.80	y	25:34	1.09	2010					101
PCB-104	*	*	n	NotFnd	1.13	*		711	799	0.701	
PCB-96	6.43e+05	1.59	y	31:13	1.06	26.1		-	-	*	
PCB-103	9.38e+05	1.55	y	31:43	0.88	45.6		-	-	*	
PCB-100	3.70e+05	1.63	y	32:05	0.87	18.2		-	-	*	
PCB-94	4.04e+05	1.47	y	32:30	0.74	23.2		-	-	*	
PCB-98	*	*	n	NotFnd	1.06	*		711	799	0.749	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	1.06	*		711	799	0.749	Co-elute PCB 98
PCB-95	7.53e+07	1.57	y	33:00	0.63	5080		-	-	*	
PCB-93	*	*	n	NotFnd	0.63	*		711	799	1.26	
PCB-88	1.19e+07	1.57	y	33:24	0.83	613		-	-	*	Co-elute PCB 91
PCB-91	1.19e+07	1.57	y	33:24	0.83	613		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.99	*		711	799	0.801	
13C-PCB-104	4.64e+07	1.60	y	30:05	0.98	1520					76.3
13C-PCB-28	8.54e+07	1.07	y	26:39	1.01	2700					136
13C-PCB-52	6.21e+07	0.79	y	28:55	-	10.4					

PCB-56	2.50e+07	0.75	y	33:54	0.89	877		-	-	*	Co-elute PCB 60
PCB-60	2.50e+07	0.75	y	33:54	0.89	877		-	-	*	Co-elute PCB 56
PCB-79	1.18e+06	0.73	y	34:56	1.00	36.7		-	-	*	
PCB-78	3.72e+05	0.75	y	35:32	0.97	12.0		-	-	*	
PCB-81	2.33e+06	0.73	y	36:07	1.07	69.1		-	-	*	
13C-PCB-81	6.27e+07	0.81	y	36:03	0.96	2530				127	
PCB-77	5.89e+06	0.77	y	36:39	1.01	180		-	-	*	
13C-PCB-77	6.44e+07	0.81	y	36:37	1.02	2440				123	
PCB-155	*	*	n	NotFnd	1.05	*		823	899	0.615	
PCB-150	1.65e+05	1.35	y	35:23	0.96	6.61		-	-	*	
PCB-152	1.38e+05	1.36	y	35:49	0.94	5.62		-	-	*	
PCB-145	6.03e+04	1.38	y	36:15	0.94	2.48	J	-	-	*	
PCB-136	1.35e+07	1.28	y	36:32	0.94	550		-	-	*	
PCB-148	*	*	n	NotFnd	0.68	*		823	899	0.955	
PCB-154	1.06e+06	1.27	y	37:07	0.80	50.8		-	-	*	
13C-PCB-155	5.17e+07	1.28	y	34:10	1.15	1740				87.6	
13C-PCB-111	6.01e+07	1.56	y	36:13	1.14	2040				103	
13C-PCB-101	5.13e+07	1.59	y	34:36	-	8.97					
PCB-84	4.66e+07	1.56	y	34:16	0.87	1900		-	-	*	Co-elute PCB 92
PCB-92	4.66e+07	1.56	y	34:16	0.87	1900		-	-	*	Co-elute PCB 84
PCB-89	8.56e+05	1.71	y	34:26	0.86	35.0		-	-	*	
PCB-90	1.21e+08	1.57	y	34:37	0.98	4340		-	-	*	Co-elute PCB 101
PCB-101	1.21e+08	1.57	y	34:37	0.98	4340		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.12	*		1330	1380	0.882	
PCB-99	5.17e+07	1.56	y	34:55	1.06	1720		-	-	*	
PCB-119	3.48e+06	1.58	y	35:22	1.26	97.8		-	-	*	
PCB-83	5.90e+06	1.54	y	35:30	1.00	208		-	-	*	Co-elute PCB 112
PCB-112	5.90e+06	1.54	y	35:30	1.00	208		-	-	*	Co-elute PCB 83
PCB-109	5.07e+04	1.70	y	35:39	1.13	1.59	J	-	-	*	
PCB-97	3.24e+07	1.55	y	35:51	1.06	1080		-	-	*	
PCB-86	2.92e+05	1.62	y	36:00	0.88	11.7		-	-	*	
PCB-125	5.23e+07	1.56	y	36:07	1.13	1630		-	-	*	Co-elute PCB 87/117
PCB-87	5.23e+07	1.56	y	36:07	1.13	1630		-	-	*	Co-elute PCB 125/117
PCB-117	5.23e+07	1.56	y	36:07	1.13	1630		-	-	*	Co-elute PCB 125/87
PCB-111	2.48e+06	1.51	y	36:16	1.45	60.6		-	-	*	Co-elute PCB 115
PCB-115	2.48e+06	1.51	y	36:16	1.45	60.6		-	-	*	Co-elute PCB 111
PCB-85	1.79e+07	1.57	y	36:21	1.02	621		-	-	*	Co-elute PCB 116
PCB-116	1.79e+07	1.57	y	36:21	1.02	621		-	-	*	Co-elute PCB 85
PCB-120	5.45e+05	1.49	y	36:35	1.34	14.4		-	-	*	
PCB-110	1.61e+08	1.54	y	36:44	1.30	4370		-	-	*	
PCB-82	1.02e+07	1.56	y	37:19	0.75	480		-	-	*	
PCB-124	5.55e+06	1.51	y	37:59	0.99	197		-	-	*	
PCB-108	9.19e+06	1.51	y	38:09	0.95	341		-	-	*	Co-elute PCB 107
PCB-107	9.19e+06	1.51	y	38:09	0.95	341		-	-	*	Co-elute PCB 108
PCB-123	2.00e+06	1.60	y	38:17	1.08	66.7		-	-	*	
13C-PCB-123	5.50e+07	1.57	y	38:15	0.97	2470				124	
PCB-118	1.21e+08	1.54	y	38:27	0.91	4550		-	-	*	Co-elute PCB 106
PCB-106	1.21e+08	1.54	y	38:27	0.91	4550		-	-	*	Co-elute PCB 118
13C-PCB-118	5.82e+07	1.59	y	38:27	1.06	2410				121	
PCB-114	2.85e+06	1.52	y	39:05	0.97	104		-	-	*	
13C-PCB-114	5.62e+07	1.60	y	39:03	1.04	2370				119	
PCB-122	1.53e+06	1.56	y	39:11	0.95	57.0		-	-	*	
PCB-105	4.79e+07	1.56	y	39:52	0.94	1800		-	-	*	
13C-PCB-105	5.62e+07	1.61	y	39:52	1.03	2380				120	

FAL ID: 10147-017-0001-SA Filename: 28SEP16Y Sam:22 Acquired: 29-SEP-16 11:07:43 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-IN-ENR-CC-CORE ConCal: ST092816Y2 EndCal: ST092816Y3
Results: 10147 GC Column: DB1 Amount: 5.030

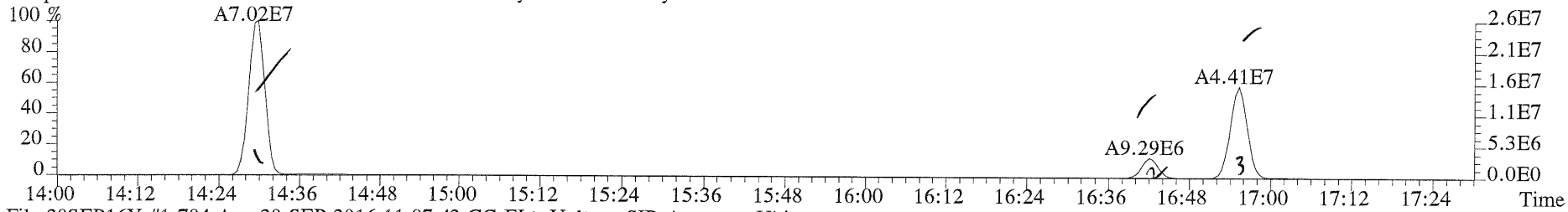
PCB-127	*	*	n	NotFnd	0.86	*	945	1010	0.830		
PCB-126	9.44e+05	1.46	y	42:01	0.98	34.5	-	-	*		
13C-PCB-126	5.56e+07	1.60	y	41:59	0.91	2660				134	
PCB-151	1.50e+07	1.25	y	37:44	0.82	680	-	-	*		
PCB-135	1.10e+07	1.25	y	37:55	0.88	463	-	-	*		
PCB-144	3.76e+06	1.20	y	38:02	0.82	170	-	-	*		
PCB-147	2.18e+06	1.24	y	38:10	0.86	93.6	-	-	*		
PCB-139	6.88e+07	1.25	y	38:23	0.90	2820	-	-	*	Co-elute PCB 149	
PCB-149	6.88e+07	1.25	y	38:23	0.90	2820	-	-	*	Co-elute PCB 139	
PCB-140	5.21e+05	1.14	y	38:35	0.83	23.1	-	-	*		
PCB-143	5.28e+06	1.22	y	39:01	0.82	238	-	-	*	Co-elute PCB 134	
PCB-134	5.28e+06	1.22	y	39:01	0.82	238	-	-	*	Co-elute PCB 143	
PCB-131	2.78e+06	1.26	y	39:16	0.83	124	-	-	*	Co-elute PCB 133	
PCB-133	2.78e+06	1.26	y	39:16	0.83	124	-	-	*	Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.71	*	1030	1080	1.07		
PCB-165	1.26e+07	1.24	y	39:39	0.97	480	-	-	*	Co-elute PCB 146	
PCB-146	1.26e+07	1.24	y	39:39	0.97	480	-	-	*	Co-elute PCB 165	
PCB-161	3.19e+07	1.24	y	39:54	0.92	1280	-	-	*	Co-elute PCB 132	
PCB-132	3.19e+07	1.24	y	39:54	0.92	1280	-	-	*	Co-elute PCB 161	
PCB-153	8.07e+07	1.24	y	40:02	0.95	3160	-	-	*		
PCB-168	1.61e+05	1.17	y	40:14	1.05	5.64	-	-	*		
PCB-141	1.49e+07	1.24	y	40:43	0.81	678	-	-	*		
PCB-137	5.78e+06	1.23	y	41:05	0.76	283	-	-	*		
PCB-130	5.80e+06	1.27	y	41:11	0.74	288	-	-	*		
PCB-138	1.09e+08	1.26	y	41:31	1.10	3670	-	-	*	Co-elute PCB 163/164	
PCB-163	1.09e+08	1.26	y	41:31	1.10	3670	-	-	*	Co-elute PCB 138/164	
PCB-164	1.09e+08	1.26	y	41:31	1.10	3670	-	-	*	Co-elute PCB 138/163	
PCB-158	1.43e+07	1.24	y	41:44	1.06	501	-	-	*	Co-elute PCB 160	
PCB-160	1.43e+07	1.24	y	41:44	1.06	501	-	-	*	Co-elute PCB 158	
PCB-129	4.45e+06	1.22	y	41:59	0.66	248	-	-	*		
PCB-166	5.39e+05	1.33	y	42:27	0.99	20.1	-	-	*		
PCB-159	5.97e+05	1.26	y	42:47	1.05	21.0	-	-	*		
PCB-128	1.84e+07	1.25	y	43:00	0.90	756	-	-	*	Co-elute PCB 162	
PCB-162	1.84e+07	1.25	y	43:00	0.90	756	-	-	*	Co-elute PCB 128	
PCB-167	5.26e+06	1.23	y	43:23	0.94	200	-	-	*		
13C-PCB-167	5.55e+07	1.24	y	43:21	1.12	2160				109	
PCB-156	1.27e+07	1.23	y	44:35	0.99	472	-	-	*		
13C-PCB-156	5.39e+07	1.26	y	44:34	1.07	2210				111	
PCB-157	3.09e+06	1.24	y	44:50	0.94	118	-	-	*		
13C-PCB-157	5.54e+07	1.25	y	44:50	1.10	2210				111	
PCB-169	*	*	n	NotFnd	0.95	*	1030	1080	0.697		
13C-PCB-169	5.03e+07	1.23	y	46:42	0.98	2240				113	

FAL ID: 10147-017-0001-SA Filename: 28SEP16Y Sam:22 Acquired: 29-SEP-16 11:07:43 ICal: DAILY209FAL4-9-28-16Y
Client ID: LDW-BA-IN-ENR-CC-CORE ConCal: ST092816Y2 EndCal: ST092816Y3
Results: 10147 GC Column: DB1 Amount: 5.030

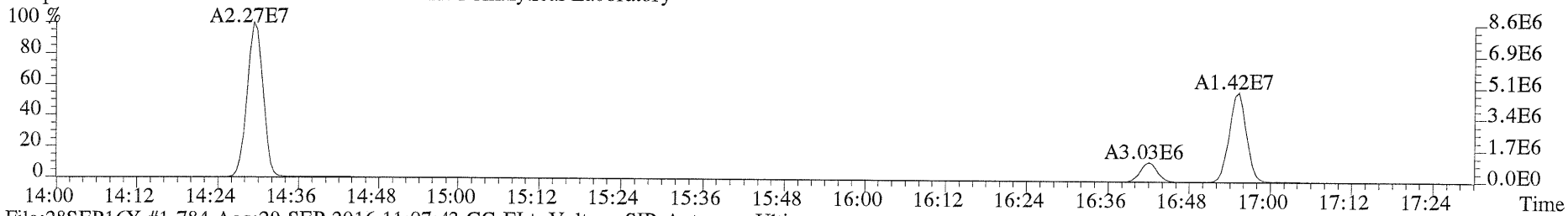
PCB-188	*	*	n	NotFnd	1.11	*	1050	1090	0.807	
13C-PCB-188	4.70e+07	1.07	y	39:39	1.23	1670				83.9
PCB-184	*	*	n	NotFnd	1.25	*	1050	1090	0.702	
PCB-179	6.10e+06	1.06	y	40:50	1.23	230	-	-	*	
PCB-176	2.07e+06	1.05	y	41:16	1.19	80.3	-	-	*	
PCB-186	*	*	n	NotFnd	1.18	*	1050	1090	0.744	
PCB-178	2.11e+06	1.05	y	42:19	0.85	114	-	-	*	
PCB-175	5.01e+05	1.03	y	42:38	0.89	26.0	-	-	*	
PCB-187	1.33e+07	1.06	y	42:47	0.95	651	-	-	*	Co-elute PCB 182
PCB-182	1.33e+07	1.06	y	42:47	0.95	651	-	-	*	Co-elute PCB 187
PCB-183	7.04e+06	1.03	y	43:05	0.95	342	-	-	*	
PCB-185	1.11e+06	1.04	y	43:43	0.86	60.1	-	-	*	
PCB-174	1.08e+07	1.05	y	44:04	0.89	562	-	-	*	
PCB-181	*	*	n	NotFnd	0.82	*	1050	1090	1.07	
PCB-177	6.45e+06	1.07	y	44:19	0.74	402	-	-	*	
PCB-171	3.52e+06	1.02	y	44:35	0.82	197	-	-	*	
PCB-173	2.30e+05	1.01	y	45:00	0.73	14.6	-	-	*	
PCB-172	1.96e+06	1.03	y	45:25	0.75	121	-	-	*	
PCB-192	*	*	n	NotFnd	0.96	*	1050	1090	0.910	
PCB-180	2.36e+07	1.05	y	45:44	0.98	1110	-	-	*	
PCB-193	1.48e+06	1.07	y	45:54	1.05	64.9	-	-	*	
PCB-191	6.50e+05	1.02	y	46:08	0.97	30.9	-	-	*	
PCB-170	1.04e+07	1.05	y	47:02	0.64	746	-	-	*	
PCB-190	2.74e+06	1.03	y	47:12	0.88	143	-	-	*	
PCB-189	5.96e+05	1.01	y	48:24	1.10	27.7	-	-	*	
13C-PCB-189	3.90e+07	1.06	y	48:22	0.90	1900				95.4
PCB-202	7.87e+05	0.87	y	44:47	0.95	43.0	-	-	*	
PCB-201	5.86e+05	0.88	y	45:13	0.92	32.9	-	-	*	
PCB-204	*	*	n	NotFnd	0.92	*	804	912	0.911	
PCB-197	2.33e+05	0.78	y	45:38	0.93	13.1	-	-	*	
PCB-200	5.23e+05	0.95	y	46:24	0.88	30.7	-	-	*	
PCB-198	1.82e+05	0.90	y	47:35	0.60	15.7	-	-	*	
PCB-199	2.90e+06	0.86	y	47:40	0.55	271	-	-	*	
PCB-203	3.39e+06	0.86	y	47:55	0.64	273	-	-	*	Co-elute PCB 196
PCB-196	3.39e+06	0.86	y	47:55	0.64	273	-	-	*	Co-elute PCB 203
13C-PCB-202	3.83e+07	0.90	y	44:45	1.00	1670				84.2
13C-PCB-178	3.59e+07	1.08	y	42:17	0.84	1870				94.3
13C-PCB-138	4.54e+07	1.25	y	41:29	-	9.26				
PCB-195	1.24e+06	0.92	y	49:01	0.75	91.3	-	-	*	
PCB-194	3.27e+06	0.90	y	49:48	0.76	236	-	-	*	
PCB-205	2.24e+05	0.93	y	50:04	1.00	12.3	-	-	*	
13C-PCB-205	3.61e+07	0.92	y	50:02	1.27	1910				96.0
PCB-208	4.73e+05	1.48	y	49:08	0.93	27.6	-	-	*	
13C-PCB-208	3.67e+07	0.80	y	49:07	1.49	1650				82.9
PCB-207	1.94e+05	1.48	y	49:25	1.00	12.3	-	-	*	
PCB-206	1.26e+06	1.33	y	51:15	0.99	96.6	-	-	*	
13C-PCB-206	2.61e+07	0.80	y	51:14	1.02	1720				86.3
PCB-209	1.56e+06	1.18	y	52:26	1.06	87.2	-	-	*	
13C-PCB-209	3.37e+07	1.18	y	52:25	1.58	1440				72.2
13C-PCB-194	2.96e+07	0.91	y	49:48	-	11.2				

Analyst: _____ Date: 10/10/16

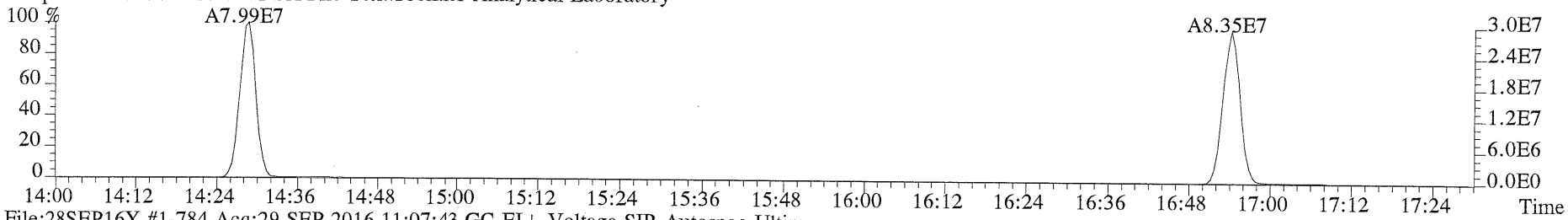
File:28SEP16Y #1-784 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:22 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



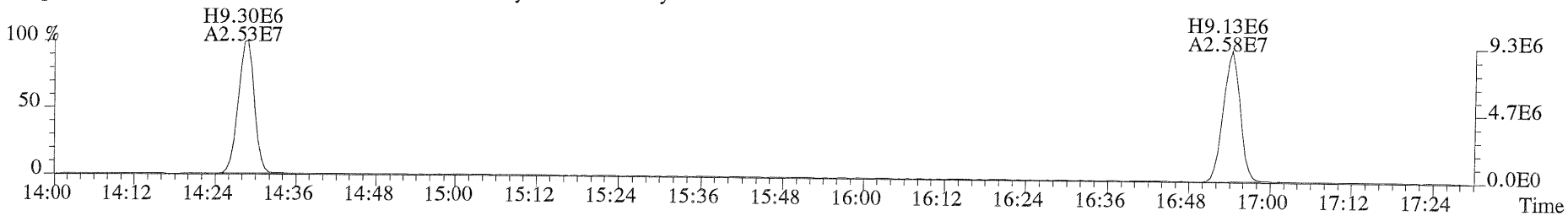
File:28SEP16Y #1-784 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:22 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



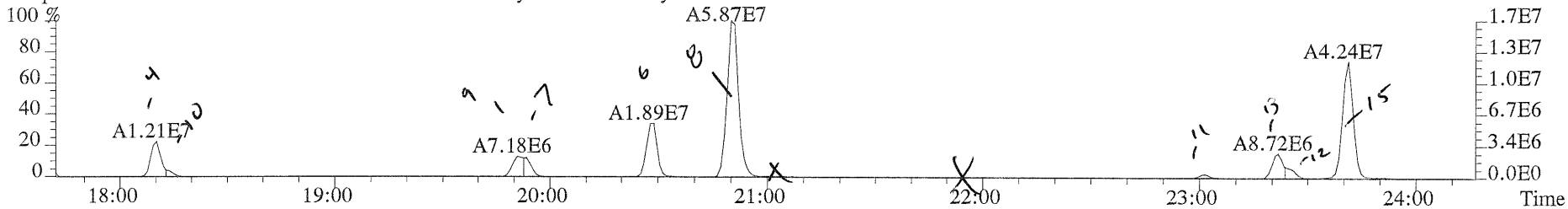
File:28SEP16Y #1-784 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:22 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



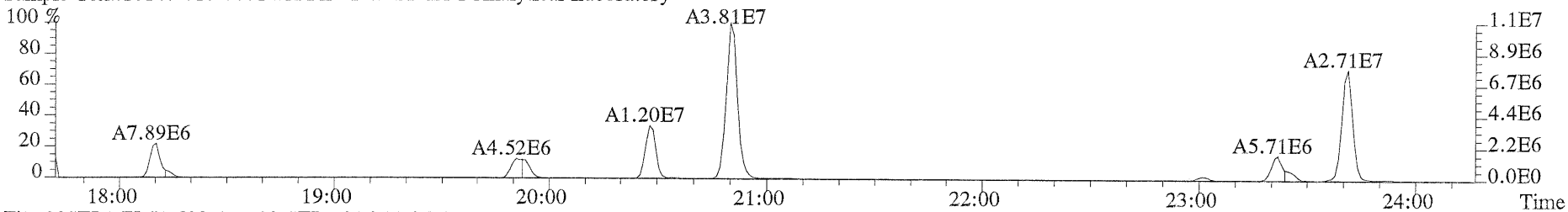
File:28SEP16Y #1-784 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:22 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



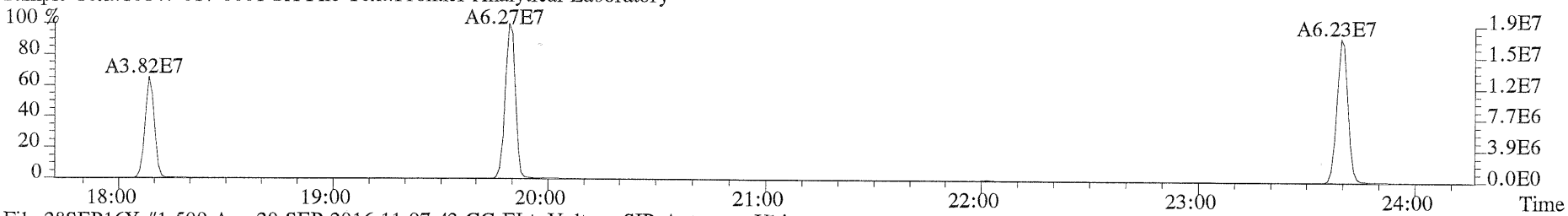
File:28SEP16Y #1-509 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:22 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



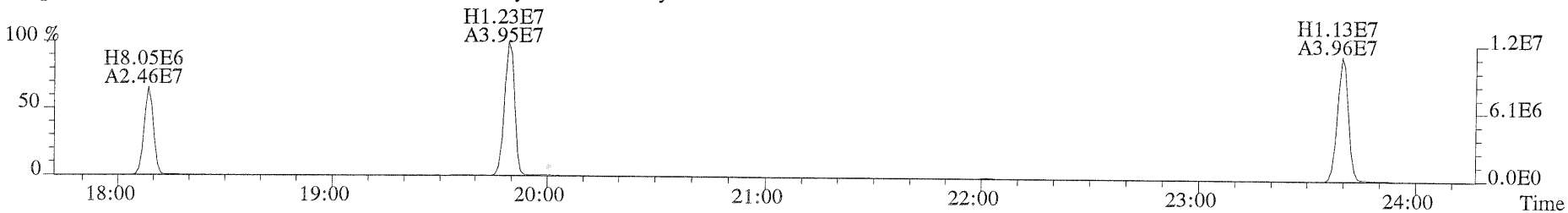
File:28SEP16Y #1-509 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:22 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



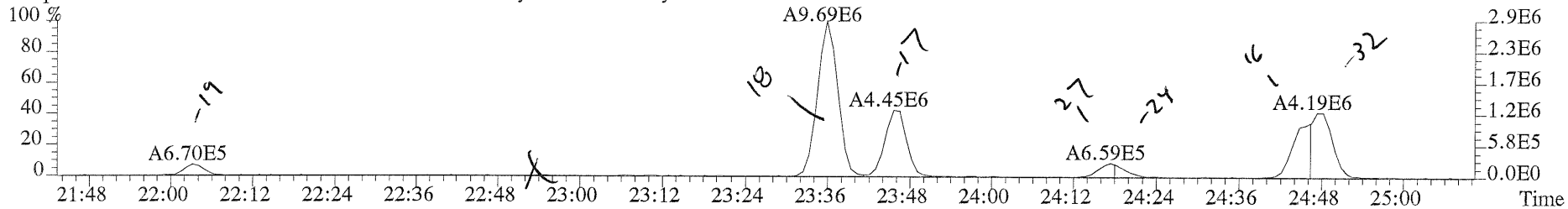
File:28SEP16Y #1-509 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:22 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



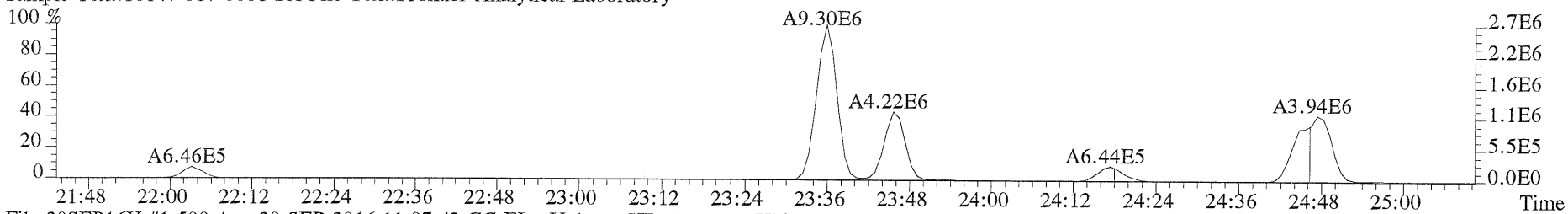
File:28SEP16Y #1-509 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:22 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



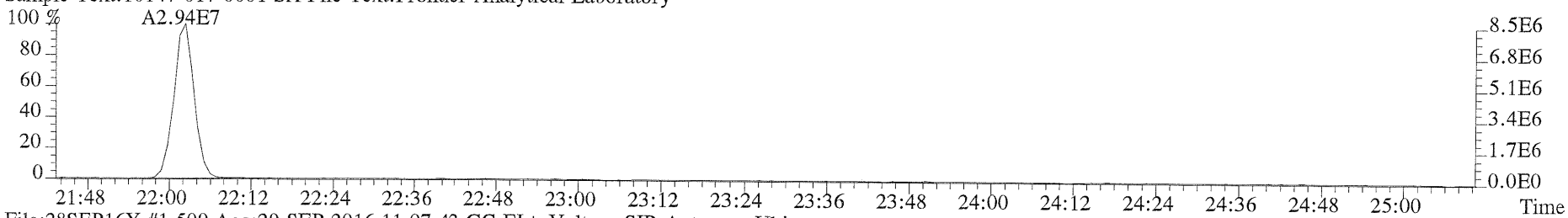
File:28SEP16Y #1-509 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:22 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



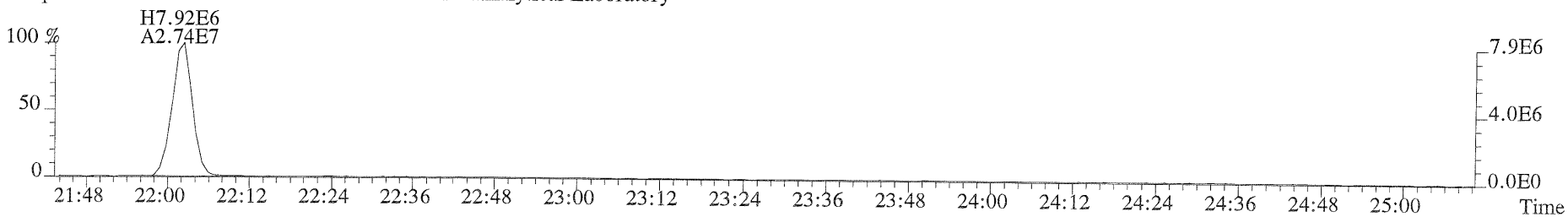
File:28SEP16Y #1-509 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:22 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



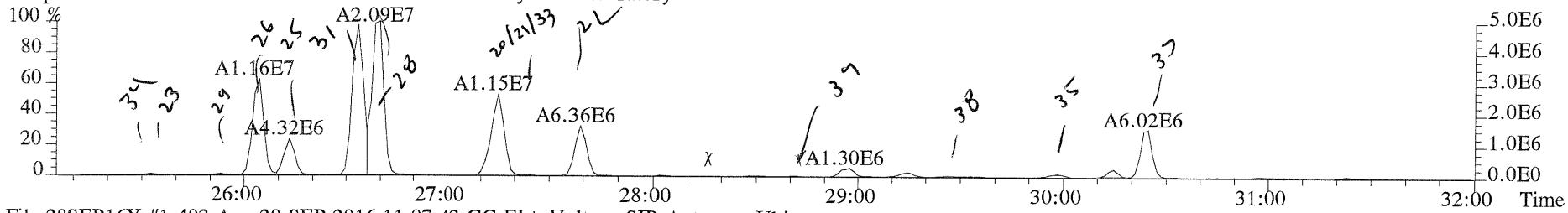
File:28SEP16Y #1-509 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:22 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



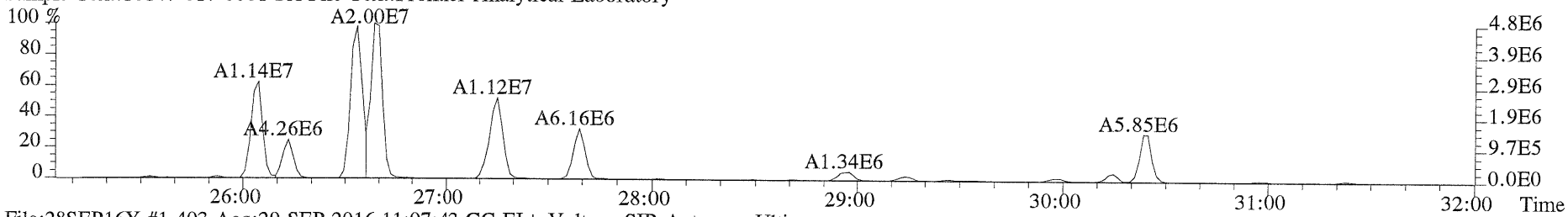
File:28SEP16Y #1-509 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:22 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



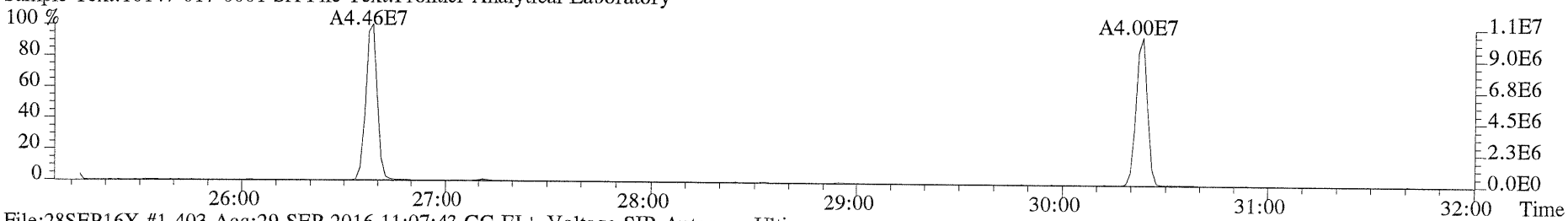
File:28SEP16Y #1-403 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:22 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



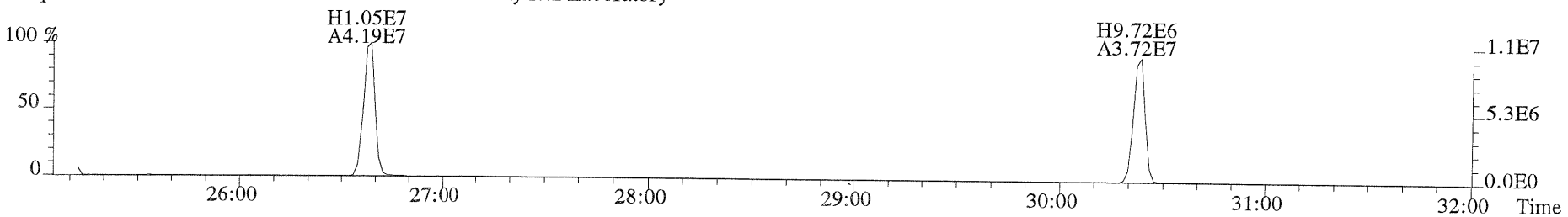
File:28SEP16Y #1-403 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:22 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



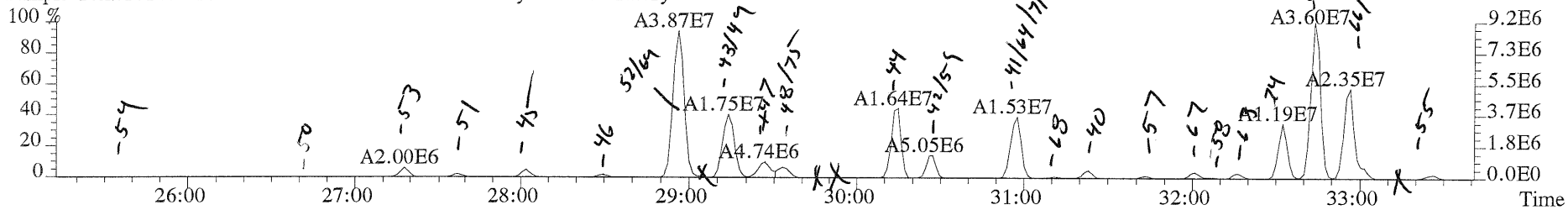
File:28SEP16Y #1-403 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:22 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



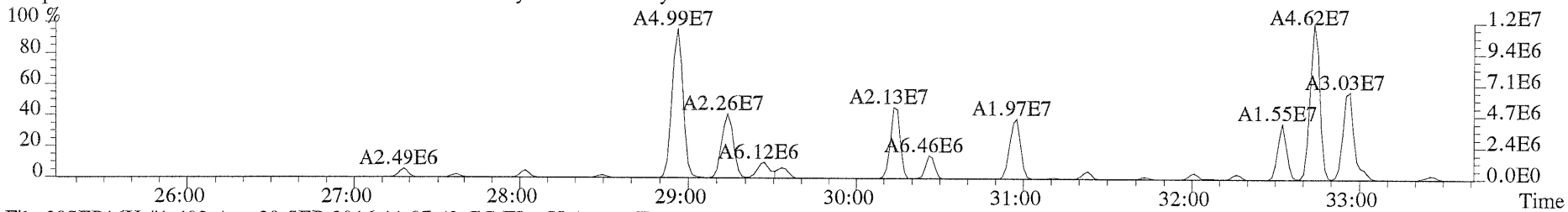
File:28SEP16Y #1-403 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:22 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



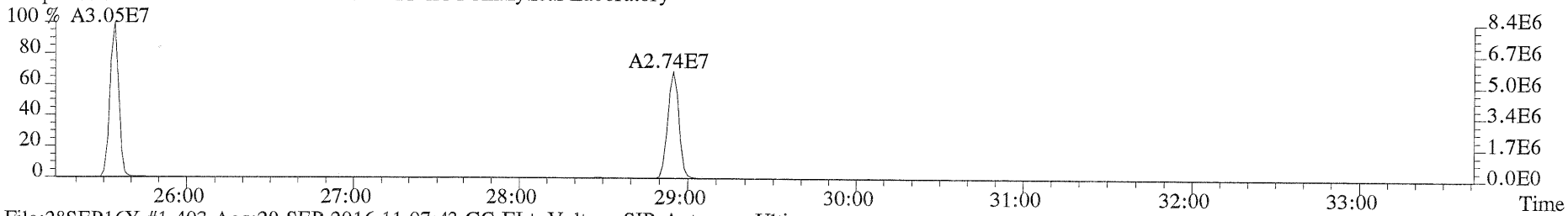
File:28SEP16Y #1-403 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:22 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



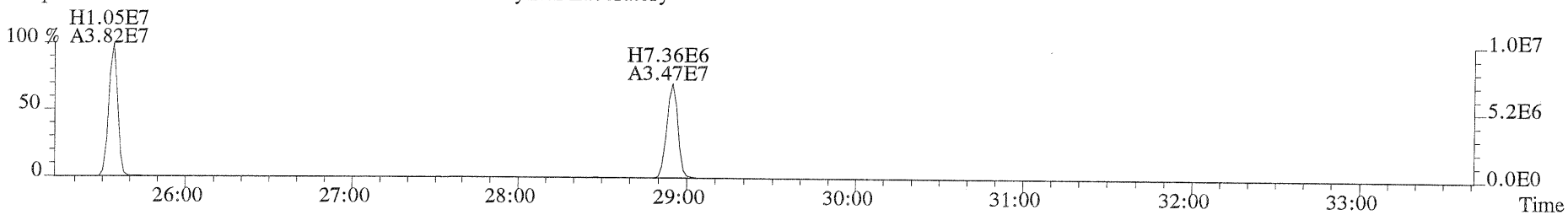
File:28SEP16Y #1-403 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:22 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



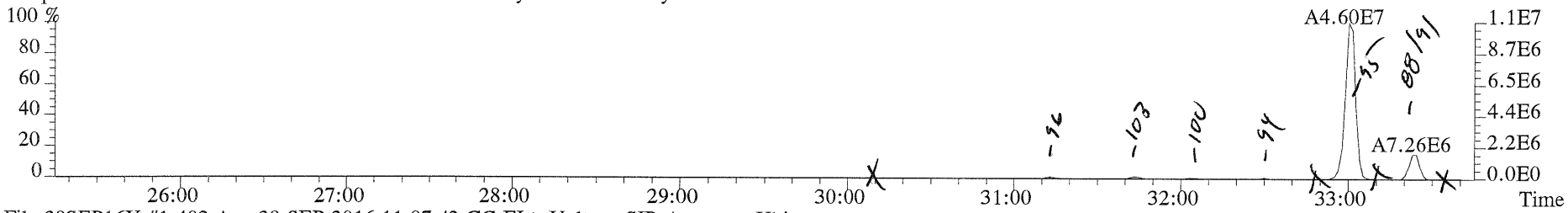
File:28SEP16Y #1-403 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:22 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



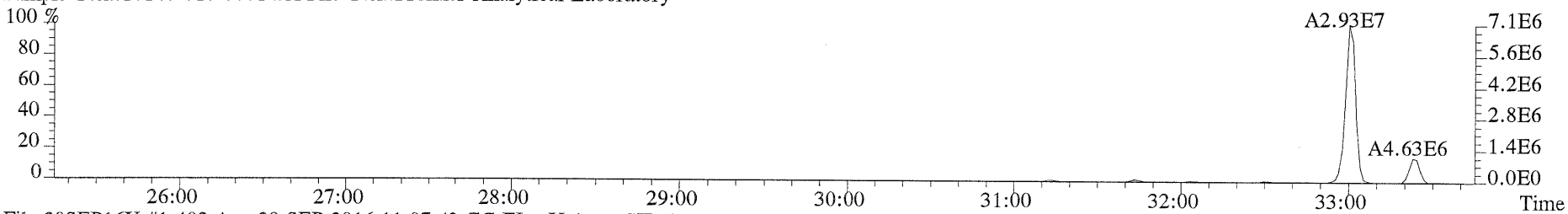
File:28SEP16Y #1-403 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:22 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



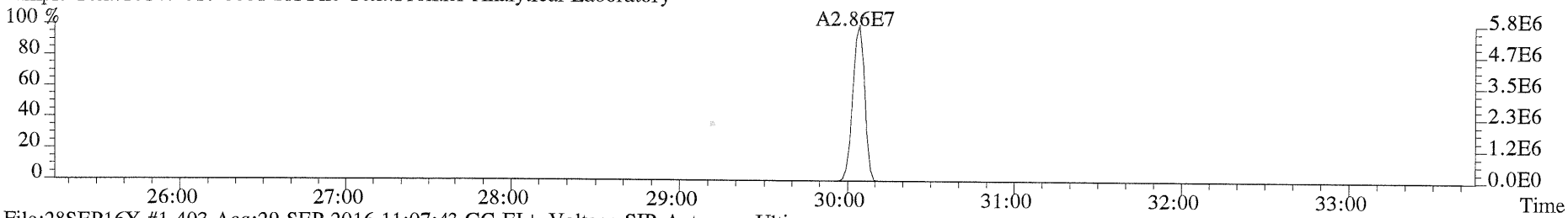
File:28SEP16Y #1-403 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:22 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



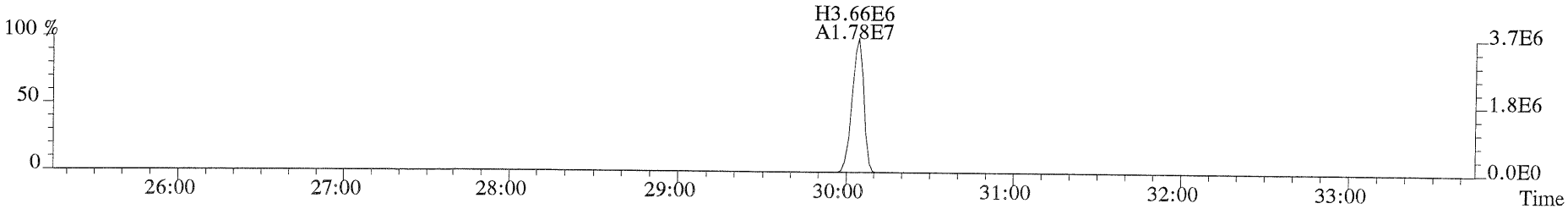
File:28SEP16Y #1-403 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:22 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-403 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:22 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-403 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:22 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



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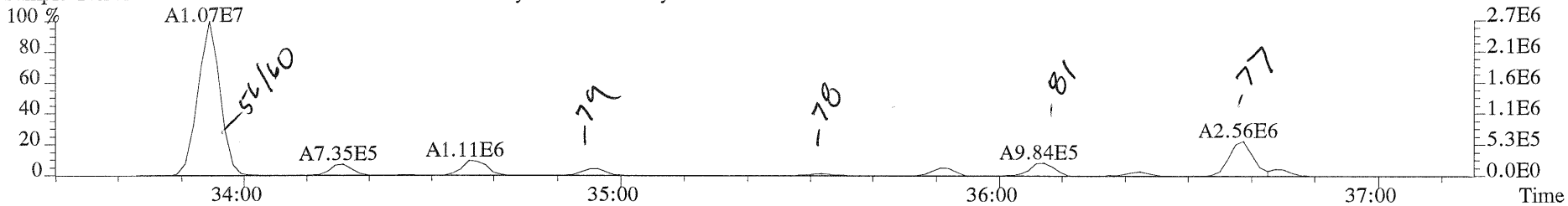
289.9224 S:22 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



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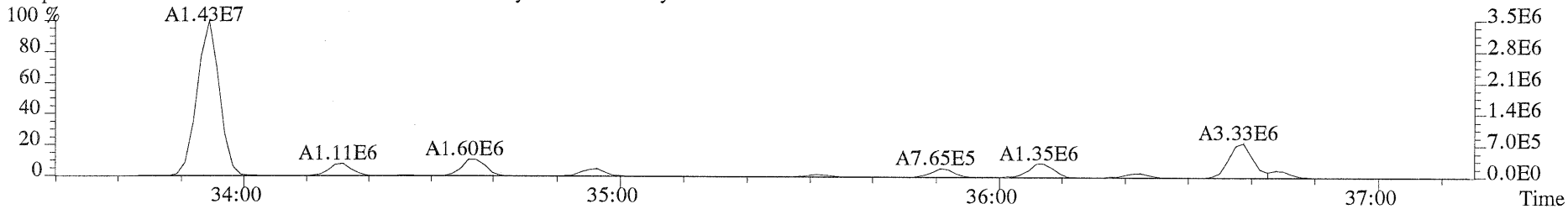
291.9194 S:22 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



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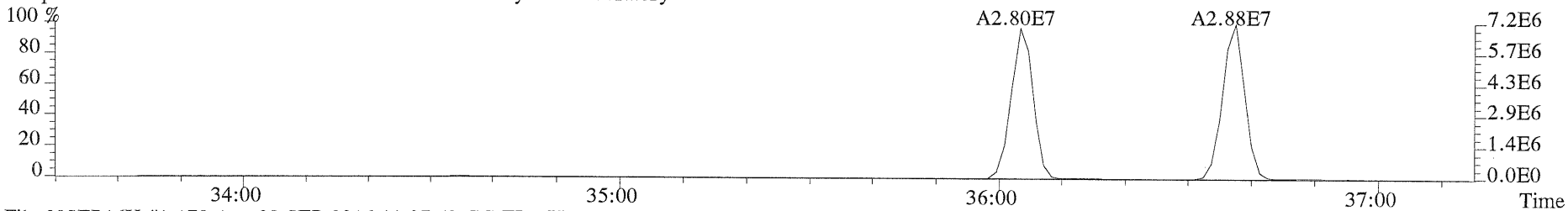
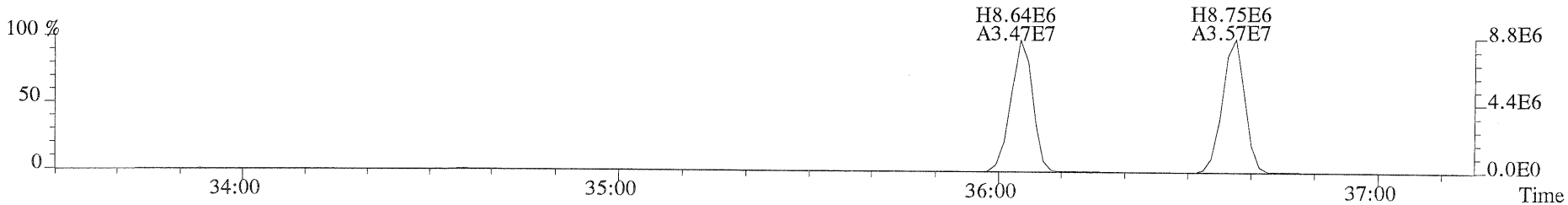
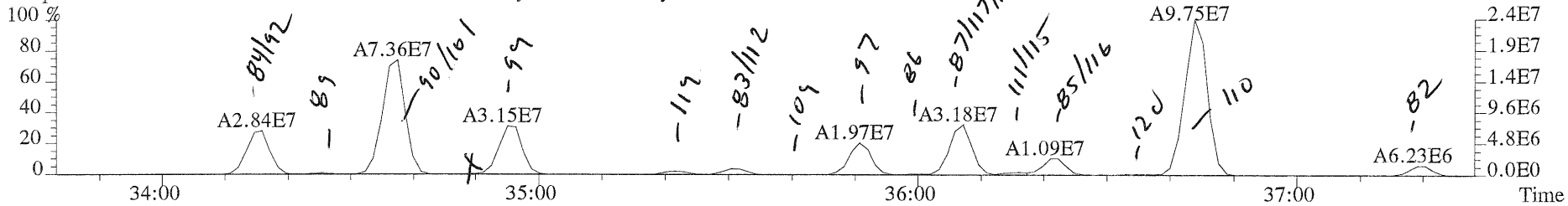
301.9626 S:22 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



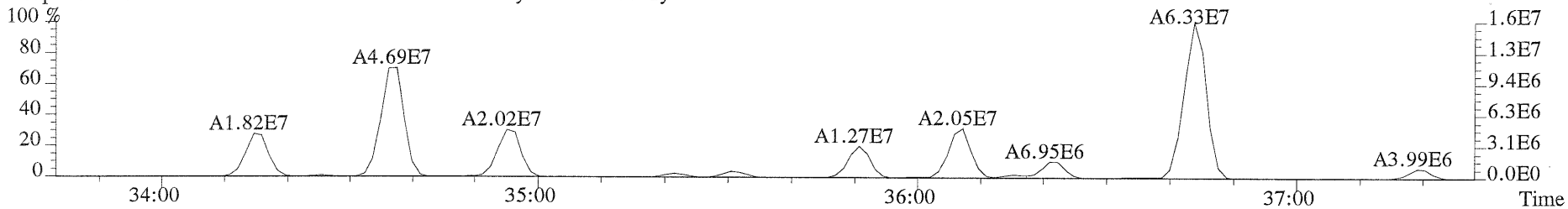
File:28SEP16Y #1-179 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:22 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



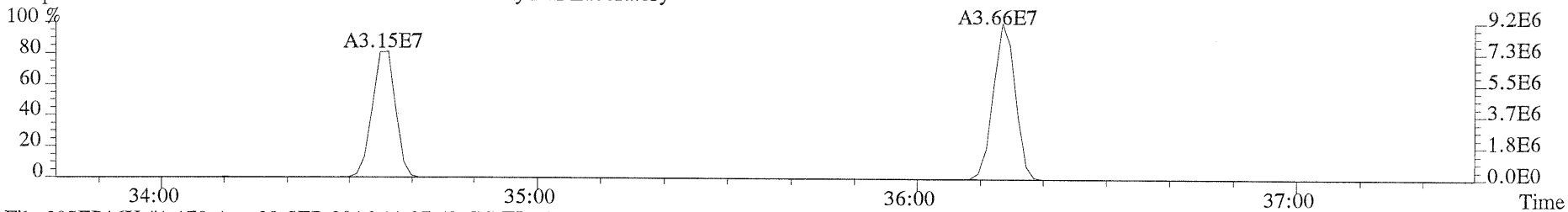
File:28SEP16Y #1-179 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:22 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



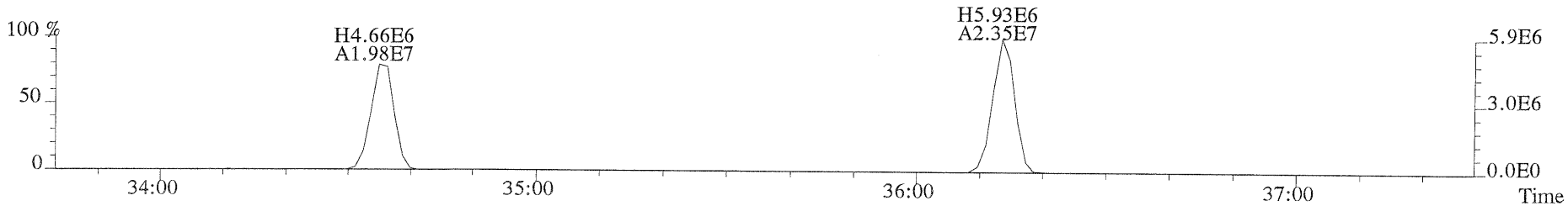
File:28SEP16Y #1-179 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:22 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



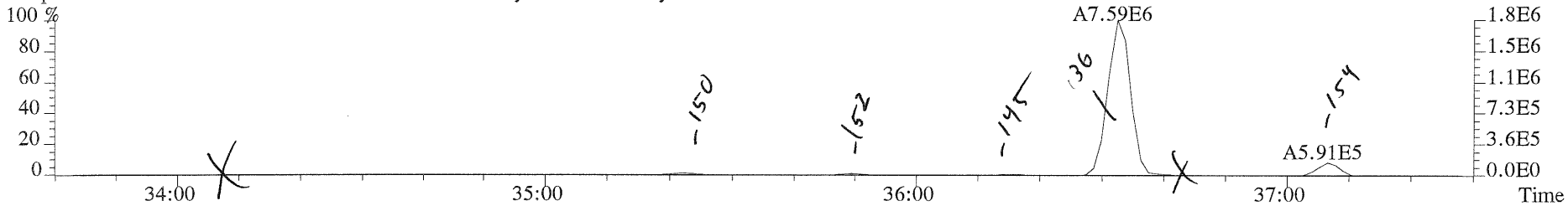
File:28SEP16Y #1-179 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:22 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



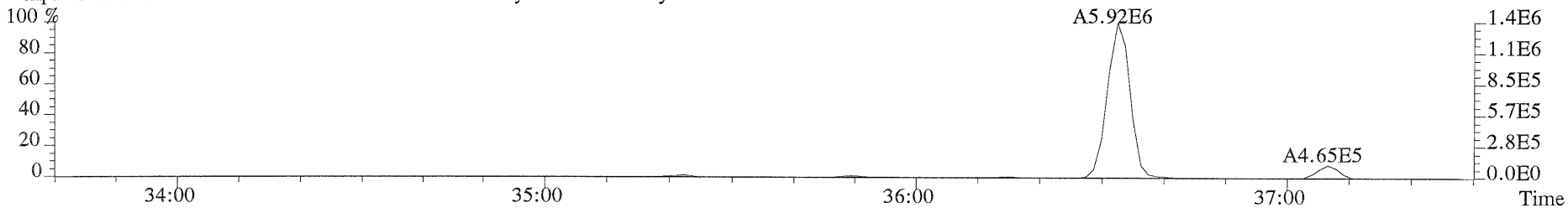
File:28SEP16Y #1-179 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:22 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



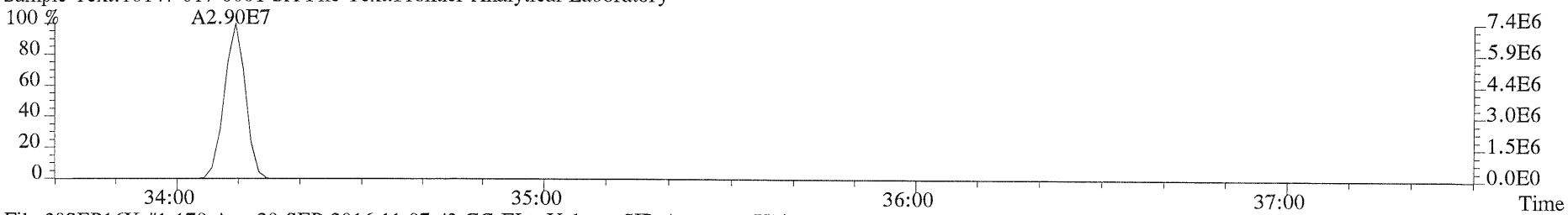
File:28SEP16Y #1-179 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:22 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



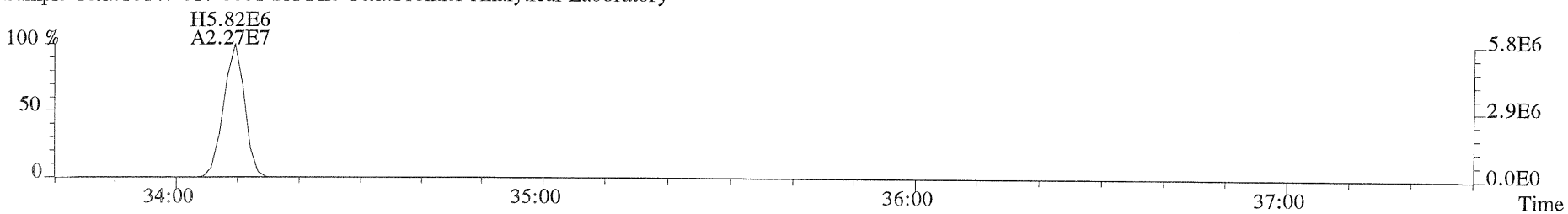
File:28SEP16Y #1-179 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:22 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



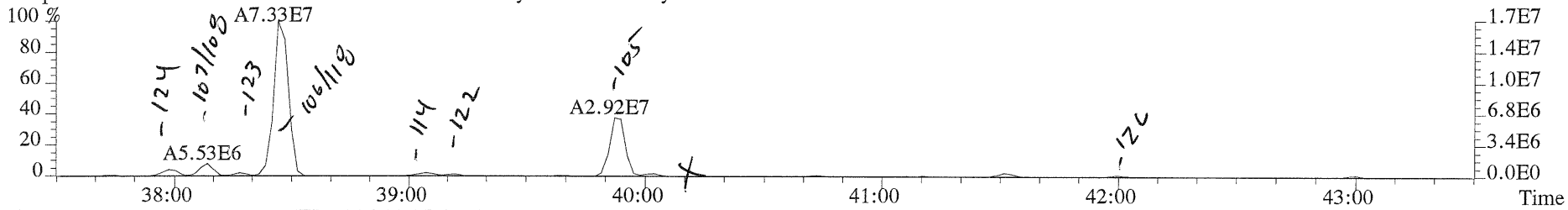
File:28SEP16Y #1-179 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:22 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



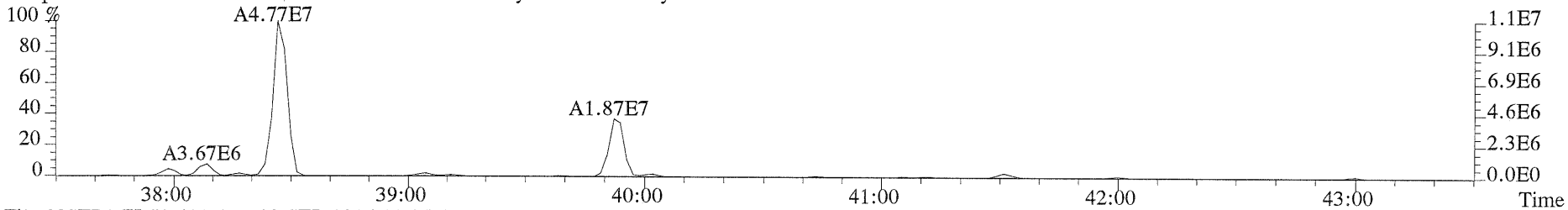
File:28SEP16Y #1-179 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:22 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



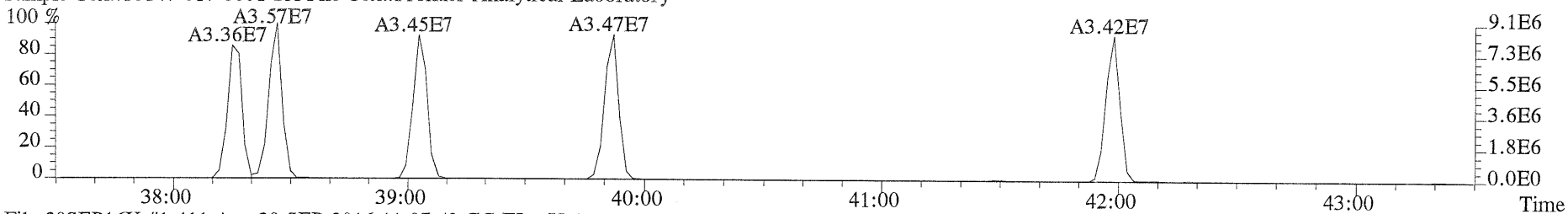
File:28SEP16Y #1-411 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:22 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



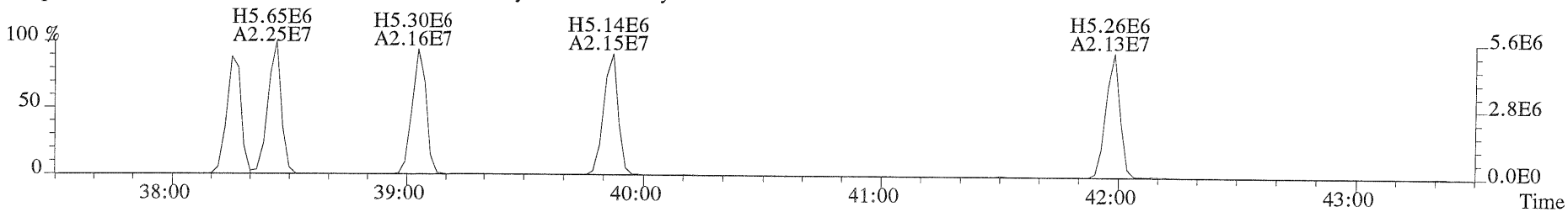
File:28SEP16Y #1-411 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:22 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



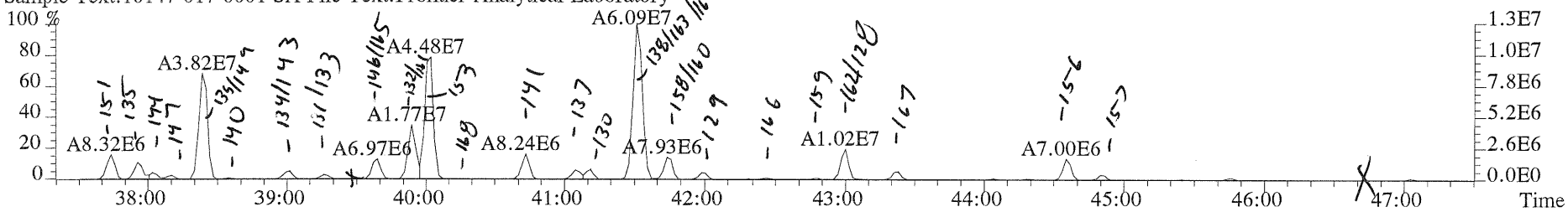
File:28SEP16Y #1-411 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:22 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



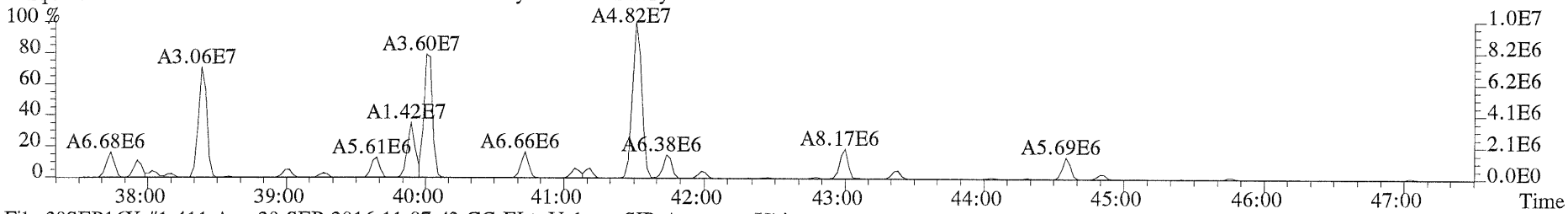
File:28SEP16Y #1-411 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:22 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



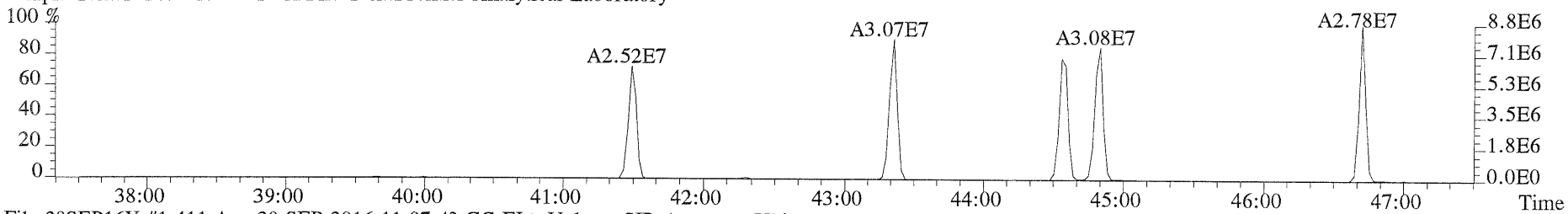
File:28SEP16Y #1-411 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:22 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



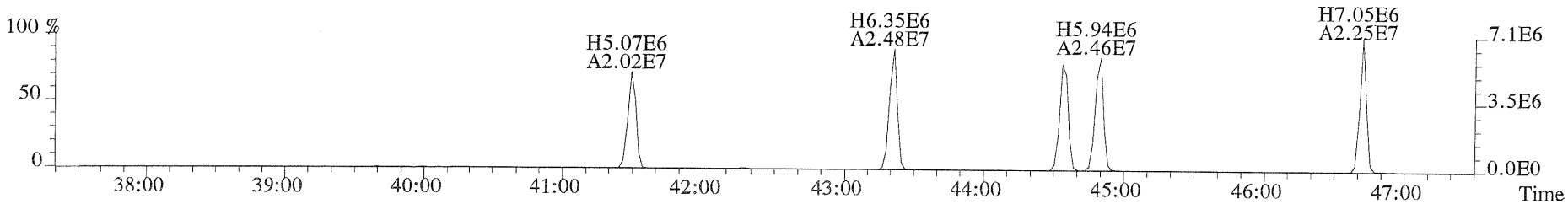
File:28SEP16Y #1-411 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:22 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



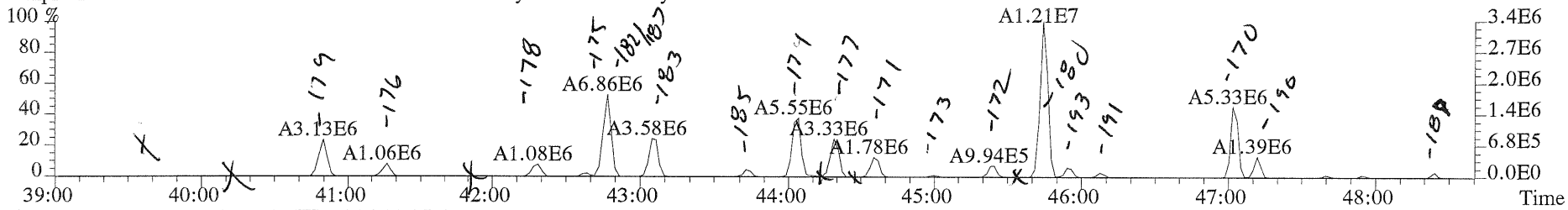
File:28SEP16Y #1-411 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:22 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:22 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:22 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



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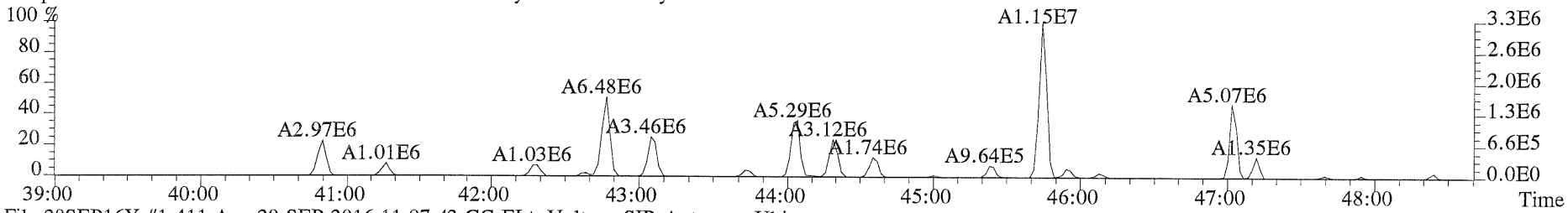
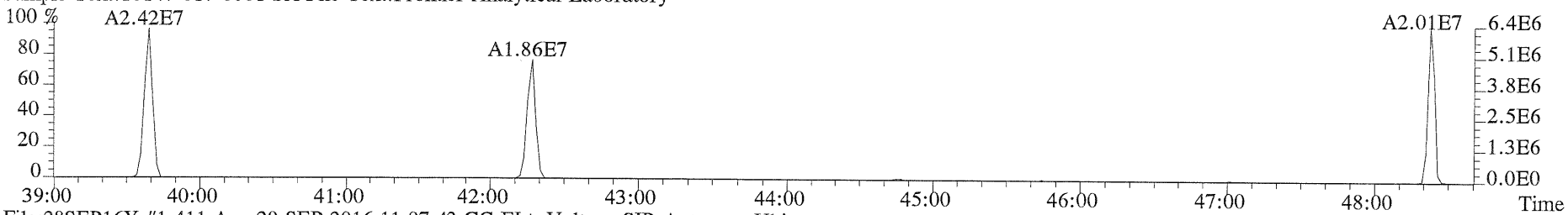
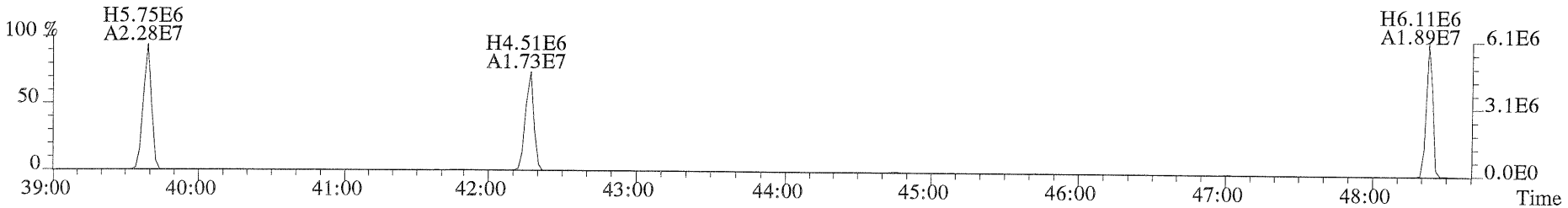
395.7995 S:22 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



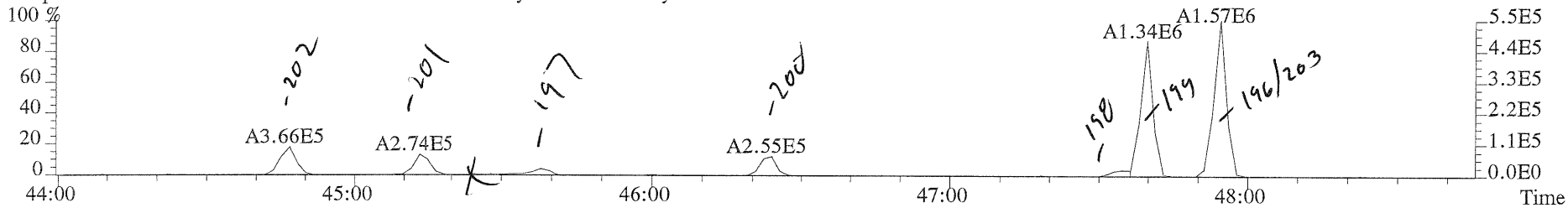
File:28SEP16Y #1-411 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:22 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



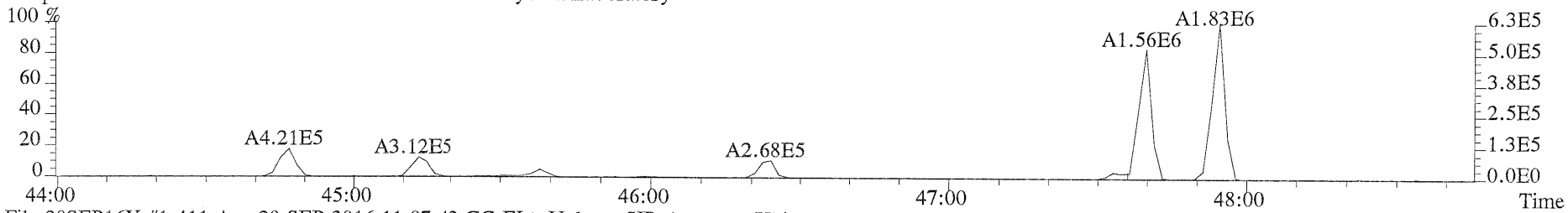
File:28SEP16Y #1-411 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:22 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



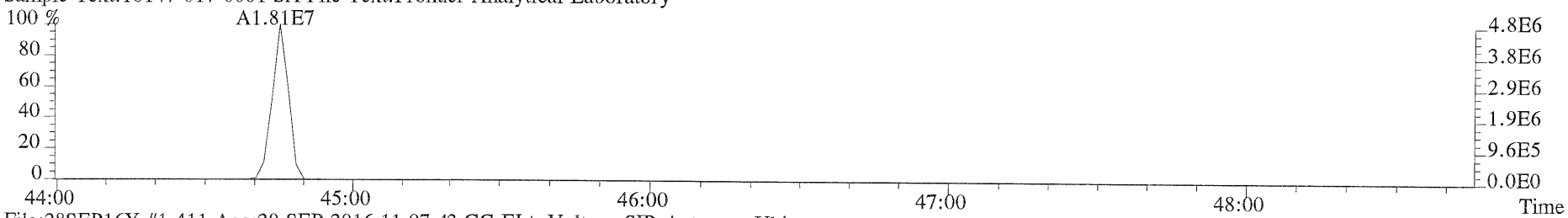
File:28SEP16Y #1-411 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:22 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:22 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-411 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:22 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



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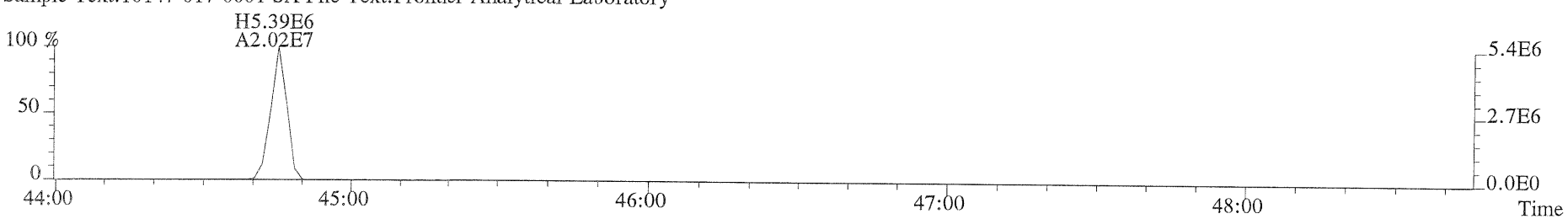
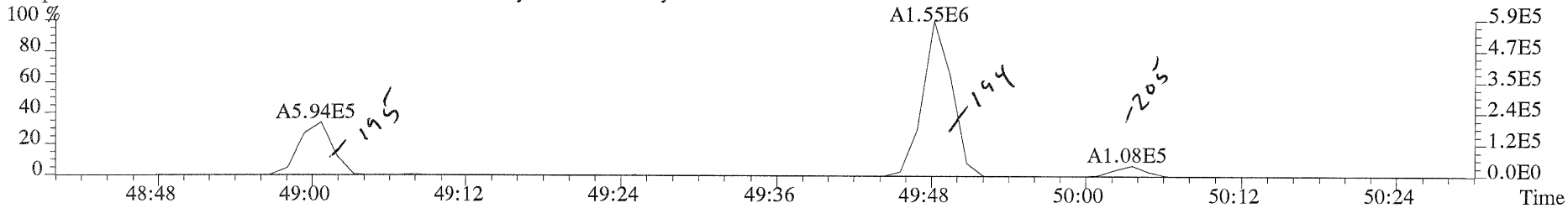
441.8008 S:22 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:22 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



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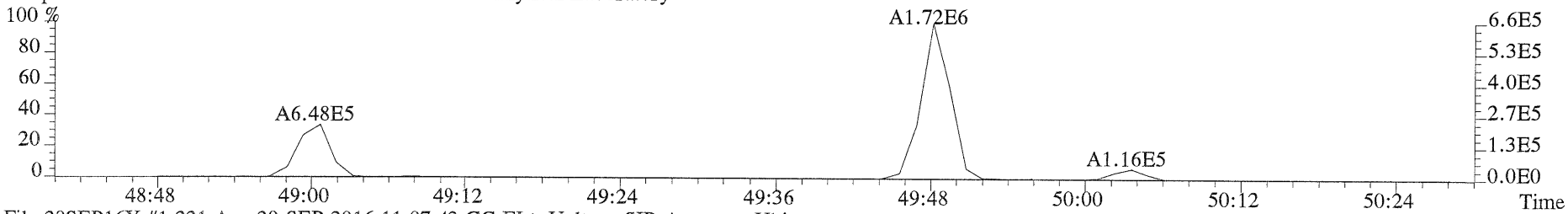
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



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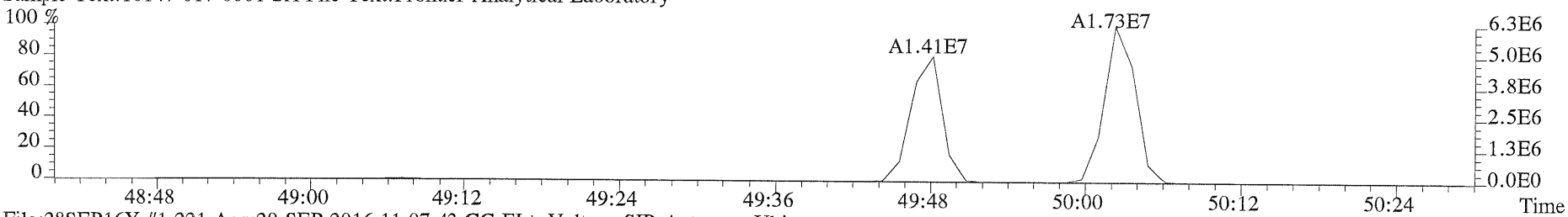
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
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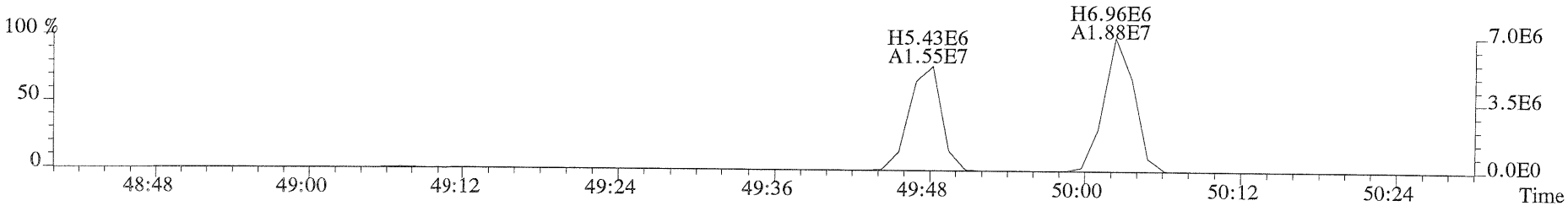
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



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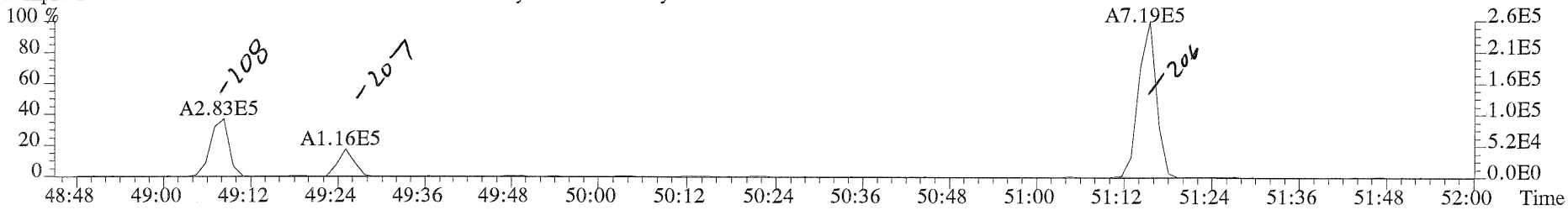
463.7216 S:22 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



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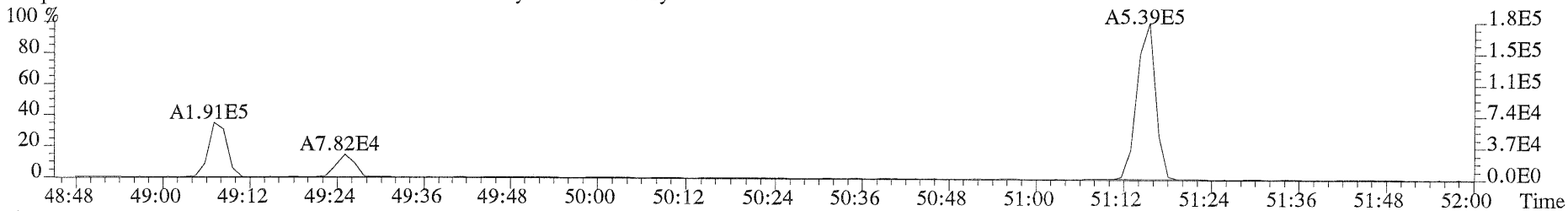
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



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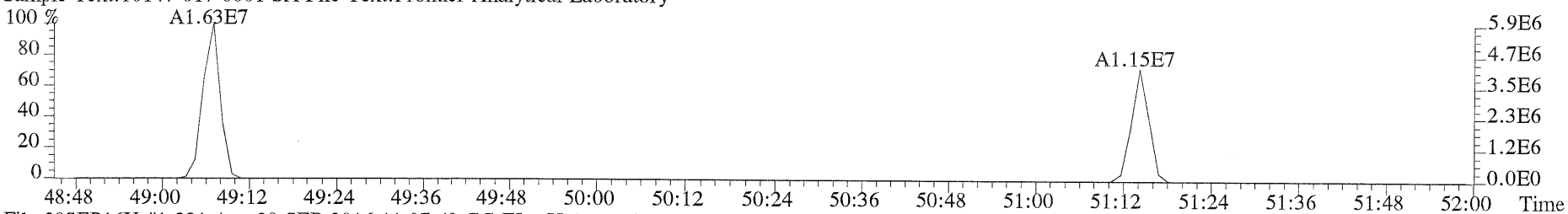
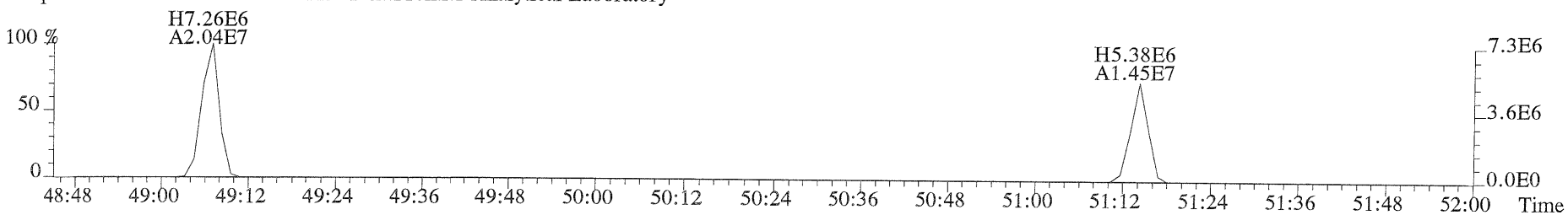
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:22 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



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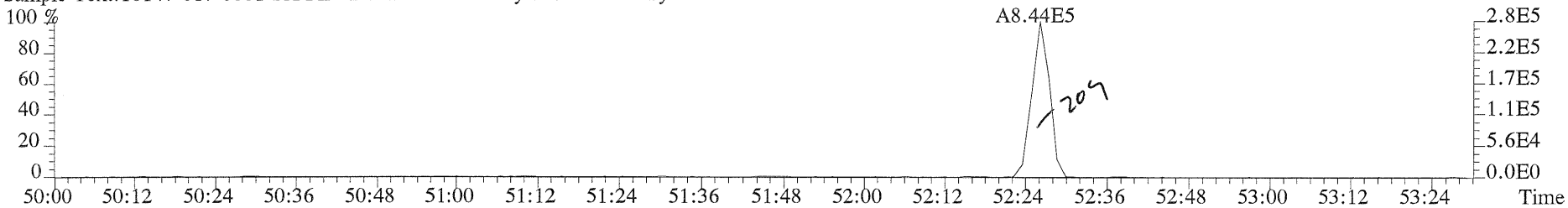
497.6826 S:22 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



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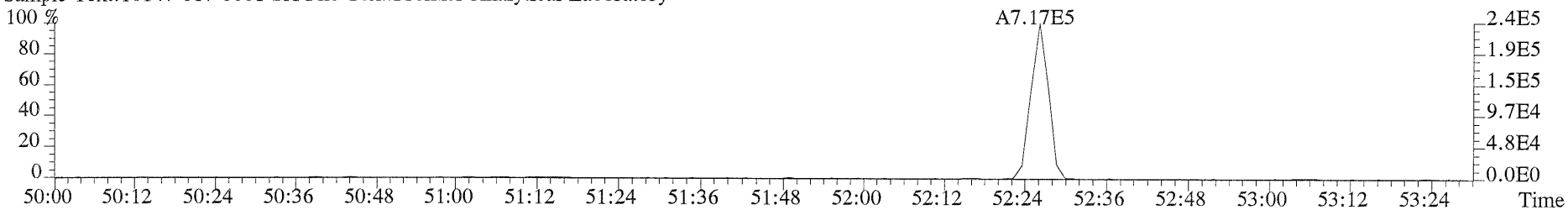
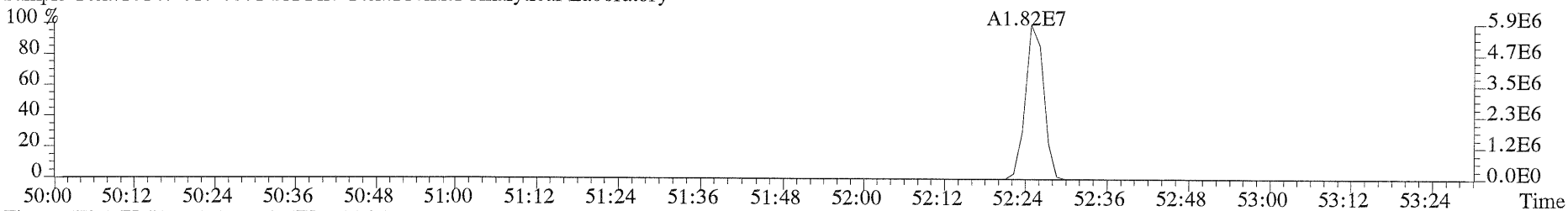
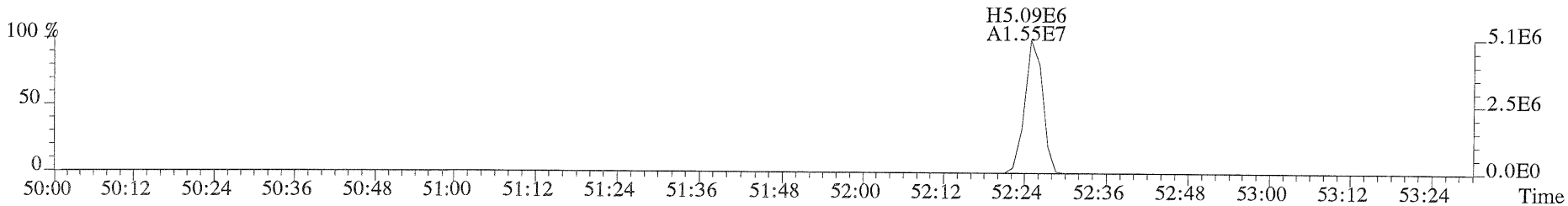
499.6797 S:22 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:22 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:29-SEP-2016 11:07:43 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:22 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10147-017-0001-SA File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

Data Filename: 11AUG16Z

Analyte: 1668FAL4-8-11-16 Cal: 1668FAL4-8-11-16

Name	RRF	S. D.	%RSD	S2 RRF#1	S3 RRF#2	S4 RRF#3	S1 RRF#4	S5 RRF#5	S6 RRF#6
PCB-1	1.05	0.0632	6.02 %	1.15	1.09	1.02	1.02	1.04	0.98
13C-PCB-1	1.14	0.0410	3.61 %	1.12	1.11	1.14	1.12	1.12	1.22
PCB-3	1.05	0.0605	5.78 %	1.15	1.09	1.02	1.00	1.01	1.01
13C-PCB-3	1.11	0.0465	4.20 %	1.04	1.08	1.10	1.12	1.11	1.19
PCB-4	1.14	0.0394	3.47 %	1.20	1.14	1.13	1.07	1.14	1.14
13C-PCB-4	0.68	0.0184	2.72 %	0.67	0.68	0.66	0.66	0.68	0.71
PCB-15	1.09	0.0250	2.30 %	1.08	1.10	1.07	1.06	1.11	1.12
13C-PCB-15	1.02	0.0428	4.18 %	0.96	1.03	1.03	1.01	1.03	1.09
PCB-19	1.16	0.0996	8.57 %	1.36	1.17	1.12	1.11	1.10	1.10
13C-PCB-19	0.61	0.0258	4.20 %	0.61	0.60	0.59	0.61	0.63	0.66
13C-PCB-9	-	-	- %	-	-	-	-	-	-
PCB-37	1.14	0.0359	3.14 %	1.11	1.16	1.15	1.09	1.14	1.19
13C-PCB-37	1.38	0.0521	3.79 %	1.32	1.33	1.39	1.34	1.40	1.46
PCB-54	1.05	0.00869	0.827 %	1.04	1.06	1.05	1.05	1.05	1.05
13C-PCB-54	1.25	0.0234	1.87 %	1.24	1.25	1.25	1.23	1.25	1.30
PCB-104	1.14	0.0827	7.24 %	1.29	1.19	1.09	1.09	1.10	1.10
13C-PCB-104	0.91	0.0275	3.02 %	0.89	0.88	0.91	0.90	0.92	0.96
13C-PCB-28	1.48	0.0521	3.51 %	1.46	1.47	1.59	1.47	1.46	1.45
13C-PCB-52	-	-	- %	-	-	-	-	-	-
PCB-81	1.14	0.0578	5.05 %	1.24	1.10	1.09	1.12	1.14	1.18
13C-PCB-81	1.27	0.0513	4.04 %	1.21	1.30	1.31	1.22	1.25	1.33
PCB-77	1.10	0.0223	2.03 %	1.11	1.11	1.10	1.06	1.09	1.13
13C-PCB-77	1.27	0.0698	5.49 %	1.25	1.16	1.27	1.27	1.31	1.37
PCB-155	1.11	0.0299	2.70 %	1.13	1.16	1.10	1.08	1.09	1.10
13C-PCB-155	1.09	0.0331	3.04 %	1.08	1.06	1.05	1.09	1.09	1.15
13C-PCB-111	1.25	0.0232	1.85 %	1.29	1.23	1.23	1.26	1.25	1.26
13C-PCB-101	-	-	- %	-	-	-	-	-	-
PCB-123	1.05	0.0594	5.64 %	1.10	0.96	1.02	1.03	1.11	1.10
13C-PCB-123	1.20	0.0903	7.51 %	1.16	1.14	1.13	1.17	1.26	1.36
PCB-118	1.07	0.0668	6.26 %	1.15	1.01	0.97	1.05	1.10	1.11
13C-PCB-118	1.31	0.0467	3.56 %	1.29	1.26	1.31	1.29	1.33	1.40
PCB-114	1.08	0.0497	4.59 %	1.17	1.06	1.05	1.04	1.09	1.10
13C-PCB-114	1.23	0.0671	5.44 %	1.20	1.16	1.19	1.22	1.30	1.33
PCB-105	1.08	0.0285	2.64 %	1.12	1.10	1.05	1.05	1.07	1.09
13C-PCB-105	1.24	0.0676	5.45 %	1.23	1.17	1.18	1.22	1.29	1.35
PCB-126	1.07	0.0569	5.33 %	1.16	1.03	1.01	1.05	1.05	1.12
13C-PCB-126	1.17	0.0581	4.96 %	1.11	1.15	1.18	1.12	1.19	1.27
PCB-167	0.98	0.0399	4.07 %	1.02	0.92	0.94	0.99	1.00	1.01
13C-PCB-167	1.24	0.0563	4.54 %	1.23	1.19	1.18	1.23	1.29	1.32
PCB-156	1.01	0.0204	2.02 %	1.04	0.99	0.99	1.00	1.02	1.03
13C-PCB-156	1.18	0.0698	5.92 %	1.17	1.11	1.10	1.17	1.24	1.28
PCB-157	0.96	0.0298	3.09 %	0.97	0.92	0.93	0.98	0.98	0.98
13C-PCB-157	1.22	0.0554	4.52 %	1.22	1.17	1.18	1.19	1.27	1.31
PCB-169	1.00	0.0446	4.47 %	1.09	0.98	0.96	0.98	0.99	0.99
13C-PCB-169	1.11	0.0792	7.15 %	1.12	1.01	1.04	1.10	1.17	1.22
PCB-188	1.09	0.0340	3.11 %	1.14	1.13	1.08	1.06	1.07	1.07
13C-PCB-188	1.22	0.105	8.61 %	1.25	1.09	1.11	1.24	1.30	1.36
PCB-189	1.14	0.0734	6.44 %	1.29	1.13	1.10	1.12	1.11	1.09
13C-PCB-189	0.97	0.0705	7.28 %	0.98	0.89	0.89	0.95	1.04	1.06
PCB-202	1.05	0.0311	2.95 %	1.12	1.06	1.03	1.04	1.05	1.04
13C-PCB-202	0.88	0.0771	8.80 %	0.87	0.78	0.81	0.87	0.95	0.98
13C-PCB-178	0.77	0.0487	6.32 %	0.79	0.71	0.71	0.78	0.82	0.81
13C-PCB-138	-	-	- %	-	-	-	-	-	-

PCB-205	1.02	0.0843	8.29 %	1.09	0.92	0.91	1.01	1.09	1.07
13C-PCB-205	1.38	0.0559	4.05 %	1.32	1.43	1.44	1.32	1.35	1.42
PCB-208	0.93	0.0183	1.97 %	0.96	0.94	0.93	0.90	0.93	0.93
13C-PCB-208	1.31	0.113	8.63 %	1.29	1.16	1.26	1.31	1.35	1.51
PCB-206	0.94	0.0197	2.11 %	0.97	0.93	0.91	0.93	0.94	0.94
13C-PCB-206	1.01	0.0466	4.60 %	1.01	0.97	0.96	1.03	1.01	1.09
PCB-209	1.10	0.109	9.87 %	1.25	0.98	0.97	1.14	1.14	1.14
13C-PCB-209	1.34	0.0712	5.32 %	1.28	1.44	1.41	1.30	1.26	1.33
13C-PCB-194	-	-	- %	-	-	-	-	-	-

Analyst: _____ Date: 8/12/16

Run #1 Filename 11AUG16Z S: 2 Acquired: 11-AUG-16 12:25:59 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z0 Analyte: FAL ID: 1668 CS0 R151116A CS0001

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	0.20	2.49e+05	3.29 y	14:28	-	1.15	y
2	IS/RT	13C-PCB-1	100.00	1.08e+08	3.11 y	14:27	-	1.12	y
3	Unk	PCB-3	0.20	2.32e+05	3.25 y	16:54	-	1.15	y
4	IS/RT	13C-PCB-3	100.00	1.01e+08	3.12 y	16:53	-	1.04	y
5	Unk	PCB-4	0.20	1.55e+05	1.34 y	18:07	-	1.20	y
6	IS/RT	13C-PCB-4	100.00	6.45e+07	1.58 y	18:06	-	0.668	y
7	Unk	PCB-15	0.20	2.00e+05	1.52 y	23:40	-	1.08	y
8	IS/RT	13C-PCB-15	100.00	9.25e+07	1.59 y	23:39	-	0.957	y
9	Unk	PCB-19	0.20	1.60e+05	1.18 y	22:00	-	1.36	y
10	IS/RT	13C-PCB-19	100.00	5.88e+07	1.10 y	21:58	-	0.609	y
11	RS	13C-PCB-9	100.00	9.67e+07	1.59 y	19:46	9.67e+05	-	n
12	Unk	PCB-37	0.20	1.75e+05	1.07 y	30:19	-	1.11	y
13	IS	13C-PCB-37	100.00	7.84e+07	1.08 y	30:18	-	1.32	y
14	Unk	PCB-54	0.20	1.52e+05	0.77 y	25:31	-	1.04	y
15	IS/RT	13C-PCB-54	100.00	7.32e+07	0.80 y	25:29	-	1.24	y
16	Unk	PCB-104	0.20	1.37e+05	1.44 y	29:57	-	1.29	y
17	IS	13C-PCB-104	100.00	5.29e+07	1.59 y	29:56	-	0.894	y
18	C/Up	13C-PCB-28	100.00	8.66e+07	1.06 y	26:35	-	1.46	y
19	RS	13C-PCB-52	100.00	5.92e+07	0.78 y	28:50	5.92e+05	-	n
20	Unk	PCB-81	0.20	1.54e+05	0.81 y	36:04	-	1.24	y
21	IS	13C-PCB-81	100.00	6.20e+07	0.80 y	36:03	-	1.21	y
22	Unk	PCB-77	0.20	1.43e+05	0.75 y	36:38	-	1.11	y
23	IS/RT	13C-PCB-77	100.00	6.40e+07	0.80 y	36:37	-	1.25	y
24	Unk	PCB-155	0.20	1.26e+05	1.32 y	34:06	-	1.13	y
25	IS	13C-PCB-155	100.00	5.57e+07	1.27 y	34:05	-	1.08	y
26	C/Up	13C-PCB-111	100.00	6.63e+07	1.58 y	36:10	-	1.29	y
27	RS	13C-PCB-101	100.00	5.14e+07	1.61 y	34:32	5.14e+05	-	n
28	Unk	PCB-123	0.20	1.22e+05	1.57 y	38:14	-	1.10	y
29	IS	13C-PCB-123	100.00	5.53e+07	1.57 y	38:13	-	1.16	y
30	Unk	PCB-118	0.20	1.41e+05	1.39 y	38:24	-	1.15	y
31	IS	13C-PCB-118	100.00	6.13e+07	1.57 y	38:24	-	1.29	y
32	Unk	PCB-114	0.20	1.34e+05	1.32 y	39:02	-	1.17	y
33	IS	13C-PCB-114	100.00	5.73e+07	1.57 y	39:00	-	1.20	y
34	Unk	PCB-105	0.20	1.31e+05	1.42 y	39:51	-	1.12	y
35	IS	13C-PCB-105	100.00	5.86e+07	1.59 y	39:50	-	1.23	y
36	Unk	PCB-126	0.20	1.23e+05	1.40 y	42:00	-	1.16	y
37	IS	13C-PCB-126	100.00	5.31e+07	1.57 y	41:58	-	1.11	y
38	Unk	PCB-167	0.20	1.20e+05	1.37 y	43:19	-	1.02	y
39	IS	13C-PCB-167	100.00	5.87e+07	1.25 y	43:17	-	1.23	y
40	Unk	PCB-156	0.20	1.16e+05	1.32 y	44:33	-	1.04	y
41	IS	13C-PCB-156	100.00	5.59e+07	1.25 y	44:31	-	1.17	y
42	Unk	PCB-157	0.20	1.13e+05	1.37 y	44:48	-	0.973	y
43	IS	13C-PCB-157	100.00	5.81e+07	1.27 y	44:48	-	1.22	y
44	Unk	PCB-169	0.20	1.16e+05	1.19 y	46:41	-	1.09	y
45	IS	13C-PCB-169	100.00	5.32e+07	1.27 y	46:41	-	1.12	y
46	Unk	PCB-188	0.20	1.36e+05	1.01 y	39:35	-	1.14	y
47	IS	13C-PCB-188	100.00	5.94e+07	1.06 y	39:35	-	1.25	y
48	Unk	PCB-189	0.20	1.20e+05	1.04 y	48:20	-	1.29	y
49	IS	13C-PCB-189	100.00	4.67e+07	1.04 y	48:20	-	0.981	y
50	Unk	PCB-202	0.20	9.21e+04	0.78 y	44:43	-	1.12	y
51	IS	13C-PCB-202	100.00	4.13e+07	0.91 y	44:41	-	0.867	y
52	C/Up	13C-PCB-178	100.00	3.74e+07	1.05 y	42:13	-	0.785	y
53	RS	13C-PCB-138	100.00	4.76e+07	1.26 y	41:27	4.76e+05	-	n

54	Unk	PCB-205	0.20	1.02e+05	0.82 y	50:01	-	1.09	y	
55	IS	13C-PCB-205	100.00	4.66e+07	0.91 y	49:59	-	1.32	y	
56	Unk	PCB-208	0.20	8.70e+04	1.50 y	49:04	-	0.960	y	
57	IS	13C-PCB-208	100.00	4.53e+07	0.79 y	49:03	-	1.29	y	
58	Unk	PCB-206	0.20	6.89e+04	1.34 y	51:11	-	0.972	y	
59	IS	13C-PCB-206	100.00	3.55e+07	0.77 y	51:10	-	1.01	y	
60	Unk	PCB-209	0.20	1.13e+05	1.19 y	52:22	-	1.25	y	
61	IS	13C-PCB-209	100.00	4.52e+07	1.20 y	52:21	-	1.28	y	
62	RS	13C-PCB-194	100.00	3.53e+07	0.91 y	49:44	3.53e+05	-	n	

Analyst: [illegible] Date: 8/12/16

Run #2 Filename 11AUG16Z S: 3 Acquired: 11-AUG-16 13:25:54 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z1 Analyte: FAL ID: 1668 CS1 R121023B CS0101

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	1.00	1.93e+06	3.03 y	14:26	-	1.09	y
2	IS/RT	13C-PCB-1	100.00	1.77e+08	3.11 y	14:25	-	1.11	y
3	Unk	PCB-3	1.00	1.88e+06	3.01 y	16:53	-	1.09	y
4	IS/RT	13C-PCB-3	100.00	1.72e+08	3.06 y	16:51	-	1.08	y
5	Unk	PCB-4	1.00	1.22e+06	1.43 y	18:06	-	1.14	y
6	IS/RT	13C-PCB-4	100.00	1.07e+08	1.58 y	18:05	-	0.676	y
7	Unk	PCB-15	1.00	1.78e+06	1.57 y	23:38	-	1.10	y
8	IS/RT	13C-PCB-15	100.00	1.63e+08	1.59 y	23:38	-	1.03	y
9	Unk	PCB-19	1.00	1.11e+06	1.08 y	21:59	-	1.17	y
10	IS/RT	13C-PCB-19	100.00	9.46e+07	1.12 y	21:57	-	0.597	y
11	RS	13C-PCB-9	100.00	1.59e+08	1.59 y	19:45	1.59e+06	-	n
12	Unk	PCB-37	1.00	1.49e+06	1.06 y	30:18	-	1.16	y
13	IS	13C-PCB-37	100.00	1.28e+08	1.06 y	30:16	-	1.33	y
14	Unk	PCB-54	1.00	1.27e+06	0.77 y	25:31	-	1.06	y
15	IS/RT	13C-PCB-54	100.00	1.20e+08	0.79 y	25:29	-	1.25	y
16	Unk	PCB-104	1.00	1.00e+06	1.53 y	29:56	-	1.19	y
17	IS	13C-PCB-104	100.00	8.45e+07	1.60 y	29:55	-	0.882	y
18	C/Up	13C-PCB-28	100.00	1.41e+08	1.07 y	26:34	-	1.47	y
19	RS	13C-PCB-52	100.00	9.58e+07	0.79 y	28:49	9.58e+05	-	n
20	Unk	PCB-81	1.00	1.19e+06	0.79 y	36:03	-	1.10	y
21	IS	13C-PCB-81	100.00	1.09e+08	0.78 y	36:01	-	1.30	y
22	Unk	PCB-77	1.00	1.09e+06	0.86 y	36:37	-	1.11	y
23	IS/RT	13C-PCB-77	100.00	9.75e+07	0.79 y	36:35	-	1.16	y
24	Unk	PCB-155	1.00	1.03e+06	1.28 y	34:05	-	1.16	y
25	IS	13C-PCB-155	100.00	8.88e+07	1.27 y	34:04	-	1.06	y
26	C/Up	13C-PCB-111	100.00	1.03e+08	1.59 y	36:09	-	1.23	y
27	RS	13C-PCB-101	100.00	8.39e+07	1.62 y	34:30	8.39e+05	-	n
28	Unk	PCB-123	1.00	9.33e+05	1.44 y	38:13	-	0.959	y
29	IS	13C-PCB-123	100.00	9.74e+07	1.57 y	38:13	-	1.14	y
30	Unk	PCB-118	1.00	1.09e+06	1.50 y	38:24	-	1.01	y
31	IS	13C-PCB-118	100.00	1.08e+08	1.58 y	38:22	-	1.26	y
32	Unk	PCB-114	1.00	1.04e+06	1.51 y	39:00	-	1.06	y
33	IS	13C-PCB-114	100.00	9.89e+07	1.58 y	39:00	-	1.16	y
34	Unk	PCB-105	1.00	1.10e+06	1.51 y	39:50	-	1.10	y
35	IS	13C-PCB-105	100.00	1.00e+08	1.60 y	39:48	-	1.17	y
36	Unk	PCB-126	1.00	1.01e+06	1.46 y	41:58	-	1.03	y
37	IS	13C-PCB-126	100.00	9.86e+07	1.60 y	41:56	-	1.15	y
38	Unk	PCB-167	1.00	9.34e+05	1.22 y	43:19	-	0.921	y
39	IS	13C-PCB-167	100.00	1.01e+08	1.24 y	43:17	-	1.19	y
40	Unk	PCB-156	1.00	9.37e+05	1.25 y	44:33	-	0.987	y
41	IS	13C-PCB-156	100.00	9.49e+07	1.25 y	44:31	-	1.11	y
42	Unk	PCB-157	1.00	9.20e+05	1.22 y	44:48	-	0.918	y
43	IS	13C-PCB-157	100.00	1.00e+08	1.25 y	44:46	-	1.17	y
44	Unk	PCB-169	1.00	8.46e+05	1.28 y	46:41	-	0.983	y
45	IS	13C-PCB-169	100.00	8.61e+07	1.26 y	46:40	-	1.01	y
46	Unk	PCB-188	1.00	1.05e+06	1.06 y	39:35	-	1.13	y
47	IS	13C-PCB-188	100.00	9.27e+07	1.05 y	39:33	-	1.09	y
48	Unk	PCB-189	1.00	8.61e+05	1.04 y	48:20	-	1.13	y
49	IS	13C-PCB-189	100.00	7.62e+07	1.05 y	48:20	-	0.892	y
50	Unk	PCB-202	1.00	7.07e+05	0.90 y	44:41	-	1.06	y
51	IS	13C-PCB-202	100.00	6.69e+07	0.91 y	44:39	-	0.784	y
52	C/Up	13C-PCB-178	100.00	6.07e+07	1.04 y	42:11	-	0.711	y
53	RS	13C-PCB-138	100.00	8.54e+07	1.26 y	41:25	8.54e+05	-	n

54	Unk	PCB-205	1.00	7.88e+05	0.88 y	49:59	-	0.924	y	
55	IS	13C-PCB-205	100.00	8.53e+07	0.91 y	49:59	-	1.43	y	
56	Unk	PCB-208	1.00	6.53e+05	1.41 y	49:04	-	0.939	y	
57	IS	13C-PCB-208	100.00	6.95e+07	0.79 y	49:03	-	1.16	y	
58	Unk	PCB-206	1.00	5.38e+05	1.32 y	51:11	-	0.926	y	
59	IS	13C-PCB-206	100.00	5.81e+07	0.78 y	51:10	-	0.973	y	
60	Unk	PCB-209	1.00	8.45e+05	1.16 y	52:21	-	0.982	y	
61	IS	13C-PCB-209	100.00	8.61e+07	1.21 y	52:21	-	1.44	y	
62	RS	13C-PCB-194	100.00	5.98e+07	0.92 y	49:44	5.98e+05	-	n	

Analyst: [illegible] Date: 8/12/16

Run #3 Filename 11AUG16Z S: 4 Acquired: 11-AUG-16 14:25:51 Cal: 1668FAL4-8-11-16
Client ID: 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: 8/18/16

Run #4 Filename 11AUG16Z S: 1 Acquired: 11-AUG-16 11:26:03 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z3 Analyte: FAL ID: 1668 CS3 R150603A CS0301

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	50.00	6.56e+07	3.10	y	14:26	-	1.02	y
2	IS/RT	13C-PCB-1	100.00	1.29e+08	3.05	y	14:25	-	1.12	y
3	Unk	PCB-3	50.00	6.47e+07	3.15	y	16:52	-	1.00	y
4	IS/RT	13C-PCB-3	100.00	1.29e+08	3.19	y	16:51	-	1.12	y
5	Unk	PCB-4	50.00	4.08e+07	1.52	y	18:05	-	1.07	y
6	IS/RT	13C-PCB-4	100.00	7.61e+07	1.56	y	18:04	-	0.657	y
7	Unk	PCB-15	50.00	6.23e+07	1.56	y	23:39	-	1.06	y
8	IS/RT	13C-PCB-15	100.00	1.17e+08	1.57	y	23:38	-	1.01	y
9	Unk	PCB-19	50.00	3.92e+07	1.04	y	21:59	-	1.11	y
10	IS/RT	13C-PCB-19	100.00	7.06e+07	1.09	y	21:57	-	0.610	y
11	RS	13C-PCB-9	100.00	1.16e+08	1.59	y	19:45	1.16e+06	-	n
12	Unk	PCB-37	50.00	5.25e+07	1.04	y	30:18	-	1.09	y
13	IS	13C-PCB-37	100.00	9.62e+07	1.14	y	30:16	-	1.34	y
14	Unk	PCB-54	50.00	4.61e+07	0.78	y	25:31	-	1.05	y
15	IS/RT	13C-PCB-54	100.00	8.82e+07	0.79	y	25:29	-	1.23	y
16	Unk	PCB-104	50.00	3.51e+07	1.56	y	29:56	-	1.09	y
17	IS	13C-PCB-104	100.00	6.45e+07	1.60	y	29:55	-	0.898	y
18	C/Up	13C-PCB-28	100.00	1.06e+08	1.10	y	26:34	-	1.47	y
19	RS	13C-PCB-52	100.00	7.18e+07	0.78	y	28:51	7.18e+05	-	n
20	Unk	PCB-81	50.00	4.21e+07	0.78	y	36:04	-	1.12	y
21	IS	13C-PCB-81	100.00	7.50e+07	0.79	y	36:03	-	1.22	y
22	Unk	PCB-77	50.00	4.15e+07	0.78	y	36:37	-	1.06	y
23	IS/RT	13C-PCB-77	100.00	7.80e+07	0.80	y	36:37	-	1.27	y
24	Unk	PCB-155	50.00	3.60e+07	1.27	y	34:06	-	1.08	y
25	IS	13C-PCB-155	100.00	6.68e+07	1.26	y	34:05	-	1.09	y
26	C/Up	13C-PCB-111	100.00	7.73e+07	1.58	y	36:10	-	1.26	y
27	RS	13C-PCB-101	100.00	6.14e+07	1.60	y	34:32	6.14e+05	-	n
28	Unk	PCB-123	50.00	3.39e+07	1.51	y	38:15	-	1.03	y
29	IS	13C-PCB-123	100.00	6.56e+07	1.57	y	38:13	-	1.17	y
30	Unk	PCB-118	50.00	3.82e+07	1.52	y	38:25	-	1.05	y
31	IS	13C-PCB-118	100.00	7.25e+07	1.58	y	38:23	-	1.29	y
32	Unk	PCB-114	50.00	3.56e+07	1.53	y	39:01	-	1.04	y
33	IS	13C-PCB-114	100.00	6.87e+07	1.58	y	39:01	-	1.22	y
34	Unk	PCB-105	50.00	3.61e+07	1.54	y	39:50	-	1.05	y
35	IS	13C-PCB-105	100.00	6.87e+07	1.60	y	39:49	-	1.22	y
36	Unk	PCB-126	50.00	3.31e+07	1.58	y	41:59	-	1.05	y
37	IS	13C-PCB-126	100.00	6.32e+07	1.57	y	41:59	-	1.12	y
38	Unk	PCB-167	50.00	3.42e+07	1.23	y	43:19	-	0.992	y
39	IS	13C-PCB-167	100.00	6.90e+07	1.25	y	43:18	-	1.23	y
40	Unk	PCB-156	50.00	3.30e+07	1.22	y	44:33	-	1.00	y
41	IS	13C-PCB-156	100.00	6.60e+07	1.27	y	44:32	-	1.17	y
42	Unk	PCB-157	50.00	3.30e+07	1.25	y	44:48	-	0.983	y
43	IS	13C-PCB-157	100.00	6.71e+07	1.25	y	44:46	-	1.19	y
44	Unk	PCB-169	50.00	3.04e+07	1.28	y	46:42	-	0.984	y
45	IS	13C-PCB-169	100.00	6.18e+07	1.24	y	46:42	-	1.10	y
46	Unk	PCB-188	50.00	3.71e+07	1.05	y	39:35	-	1.06	y
47	IS	13C-PCB-188	100.00	6.98e+07	1.06	y	39:34	-	1.24	y
48	Unk	PCB-189	50.00	3.02e+07	1.06	y	48:22	-	1.12	y
49	IS	13C-PCB-189	100.00	5.37e+07	1.04	y	48:20	-	0.954	y
50	Unk	PCB-202	50.00	2.56e+07	0.88	y	44:43	-	1.04	y
51	IS	13C-PCB-202	100.00	4.92e+07	0.91	y	44:42	-	0.875	y
52	C/Up	13C-PCB-178	100.00	4.39e+07	1.05	y	42:13	-	0.781	y
53	RS	13C-PCB-138	100.00	5.63e+07	1.25	y	41:26	5.63e+05	-	n

54	Unk	PCB-205	50.00	2.70e+07	0.88 y	50:01	-	1.01	y	
55	IS	13C-PCB-205	100.00	5.33e+07	0.90 y	49:59	-	1.32	y	
56	Unk	PCB-208	50.00	2.39e+07	1.45 y	49:04	-	0.904	y	
57	IS	13C-PCB-208	100.00	5.30e+07	0.79 y	49:03	-	1.31	y	
58	Unk	PCB-206	50.00	1.94e+07	1.40 y	51:11	-	0.934	y	
59	IS	13C-PCB-206	100.00	4.16e+07	0.79 y	51:10	-	1.03	y	
60	Unk	PCB-209	50.00	2.98e+07	1.18 y	52:22	-	1.14	y	
61	IS	13C-PCB-209	100.00	5.25e+07	1.20 y	52:21	-	1.30	y	
62	RS	13C-PCB-194	100.00	4.03e+07	0.90 y	49:44	4.03e+05	-	n	

Analyst: [illegible] Date: 5/12/16

Run #5 Filename 11AUG16Z S: 5 Acquired: 11-AUG-16 15:25:47 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z4 Analyte: FAL ID: 1668 CS4 R151116B CS0401

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	400.00	6.07e+08	3.22 y	14:26	-	1.04	y
2	IS/RT	13C-PCB-1	100.00	1.47e+08	3.05 y	14:25	-	1.12	y
3	Unk	PCB-3	400.00	5.90e+08	3.10 y	16:52	-	1.01	y
4	IS/RT	13C-PCB-3	100.00	1.46e+08	3.20 y	16:51	-	1.11	y
5	Unk	PCB-4	400.00	4.09e+08	1.57 y	18:06	-	1.14	y
6	IS/RT	13C-PCB-4	100.00	9.00e+07	1.57 y	18:04	-	0.685	y
7	Unk	PCB-15	400.00	6.01e+08	1.57 y	23:38	-	1.11	y
8	IS/RT	13C-PCB-15	100.00	1.35e+08	1.58 y	23:37	-	1.03	y
9	Unk	PCB-19	400.00	3.63e+08	1.04 y	21:59	-	1.10	y
10	IS/RT	13C-PCB-19	100.00	8.25e+07	1.10 y	21:57	-	0.628	y
11	RS	13C-PCB-9	100.00	1.31e+08	1.60 y	19:46	1.31e+06	-	n
12	Unk	PCB-37	400.00	5.21e+08	1.01 y	30:17	-	1.14	y
13	IS	13C-PCB-37	100.00	1.14e+08	1.09 y	30:15	-	1.40	y
14	Unk	PCB-54	400.00	4.28e+08	0.78 y	25:31	-	1.05	y
15	IS/RT	13C-PCB-54	100.00	1.02e+08	0.79 y	25:30	-	1.25	y
16	Unk	PCB-104	400.00	3.30e+08	1.58 y	29:56	-	1.10	y
17	IS	13C-PCB-104	100.00	7.48e+07	1.60 y	29:55	-	0.919	y
18	C/Up	13C-PCB-28	100.00	1.19e+08	1.07 y	26:35	-	1.46	y
19	RS	13C-PCB-52	100.00	8.14e+07	0.79 y	28:49	8.14e+05	-	n
20	Unk	PCB-81	400.00	4.07e+08	0.77 y	36:01	-	1.14	y
21	IS	13C-PCB-81	100.00	8.97e+07	0.80 y	36:01	-	1.25	y
22	Unk	PCB-77	400.00	4.08e+08	0.78 y	36:36	-	1.09	y
23	IS/RT	13C-PCB-77	100.00	9.38e+07	0.80 y	36:34	-	1.31	y
24	Unk	PCB-155	400.00	3.41e+08	1.27 y	34:05	-	1.09	y
25	IS	13C-PCB-155	100.00	7.84e+07	1.27 y	34:04	-	1.09	y
26	C/Up	13C-PCB-111	100.00	8.99e+07	1.60 y	36:09	-	1.25	y
27	RS	13C-PCB-101	100.00	7.17e+07	1.62 y	34:30	7.17e+05	-	n
28	Unk	PCB-123	400.00	3.62e+08	1.54 y	38:13	-	1.11	y
29	IS	13C-PCB-123	100.00	8.19e+07	1.58 y	38:11	-	1.26	y
30	Unk	PCB-118	400.00	3.79e+08	1.54 y	38:23	-	1.10	y
31	IS	13C-PCB-118	100.00	8.62e+07	1.57 y	38:21	-	1.33	y
32	Unk	PCB-114	400.00	3.66e+08	1.54 y	39:01	-	1.09	y
33	IS	13C-PCB-114	100.00	8.39e+07	1.60 y	38:59	-	1.30	y
34	Unk	PCB-105	400.00	3.57e+08	1.54 y	39:49	-	1.07	y
35	IS	13C-PCB-105	100.00	8.36e+07	1.59 y	39:49	-	1.29	y
36	Unk	PCB-126	400.00	3.24e+08	1.53 y	41:57	-	1.05	y
37	IS	13C-PCB-126	100.00	7.74e+07	1.59 y	41:55	-	1.19	y
38	Unk	PCB-167	400.00	3.35e+08	1.24 y	43:18	-	1.00	y
39	IS	13C-PCB-167	100.00	8.36e+07	1.26 y	43:18	-	1.29	y
40	Unk	PCB-156	400.00	3.30e+08	1.24 y	44:32	-	1.02	y
41	IS	13C-PCB-156	100.00	8.06e+07	1.27 y	44:30	-	1.24	y
42	Unk	PCB-157	400.00	3.23e+08	1.26 y	44:47	-	0.983	y
43	IS	13C-PCB-157	100.00	8.20e+07	1.26 y	44:47	-	1.27	y
44	Unk	PCB-169	400.00	2.99e+08	1.25 y	46:40	-	0.989	y
45	IS	13C-PCB-169	100.00	7.56e+07	1.23 y	46:40	-	1.17	y
46	Unk	PCB-188	400.00	3.62e+08	1.05 y	39:35	-	1.07	y
47	IS	13C-PCB-188	100.00	8.43e+07	1.06 y	39:34	-	1.30	y
48	Unk	PCB-189	400.00	2.98e+08	1.06 y	48:21	-	1.11	y
49	IS	13C-PCB-189	100.00	6.71e+07	1.05 y	48:19	-	1.04	y
50	Unk	PCB-202	400.00	2.57e+08	0.89 y	44:42	-	1.05	y
51	IS	13C-PCB-202	100.00	6.14e+07	0.90 y	44:40	-	0.948	y
52	C/Up	13C-PCB-178	100.00	5.33e+07	1.06 y	42:12	-	0.822	y
53	RS	13C-PCB-138	100.00	6.48e+07	1.26 y	41:26	6.48e+05	-	n

54	Unk	PCB-205	400.00	2.92e+08	0.88	y	49:59	-	1.09	y	
55	IS	13C-PCB-205	100.00	6.68e+07	0.91	y	49:58	-	1.35	y	
56	Unk	PCB-208	400.00	2.48e+08	1.42	y	49:03	-	0.928	y	
57	IS	13C-PCB-208	100.00	6.68e+07	0.79	y	49:03	-	1.35	y	
58	Unk	PCB-206	400.00	1.89e+08	1.41	y	51:10	-	0.938	y	
59	IS	13C-PCB-206	100.00	5.04e+07	0.78	y	51:10	-	1.01	y	
60	Unk	PCB-209	400.00	2.86e+08	1.18	y	52:21	-	1.14	y	
61	IS	13C-PCB-209	100.00	6.27e+07	1.19	y	52:19	-	1.26	y	
62	RS	13C-PCB-194	100.00	4.97e+07	0.92	y	49:44	4.97e+05	-	n	

Analyst: [illegible] Date: 8/12/16

Run #6 Filename 11AUG16Z S: 6 Acquired: 11-AUG-16 16:25:44 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z5 Analyte: 1668FAL4-8-11-16 FAL ID: 1668 CS5 R130426C CS0501

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	2000.00	2.77e+09	3.13	y	14:24	-	0.980	y
2	IS/RT	13C-PCB-1	100.00	1.41e+08	3.09	y	14:23	-	1.22	y
3	Unk	PCB-3	2000.00	2.77e+09	3.08	y	16:52	-	1.01	y
4	IS/RT	13C-PCB-3	100.00	1.37e+08	3.12	y	16:51	-	1.19	y
5	Unk	PCB-4	2000.00	1.87e+09	1.57	y	18:06	-	1.14	y
6	IS/RT	13C-PCB-4	100.00	8.19e+07	1.59	y	18:04	-	0.707	y
7	Unk	PCB-15	2000.00	2.84e+09	1.58	y	23:39	-	1.12	y
8	IS/RT	13C-PCB-15	100.00	1.26e+08	1.58	y	23:38	-	1.09	y
9	Unk	PCB-19	2000.00	1.68e+09	1.04	y	21:59	-	1.10	y
10	IS/RT	13C-PCB-19	100.00	7.64e+07	1.09	y	21:58	-	0.659	y
11	RS	13C-PCB-9	100.00	1.16e+08	1.61	y	19:46	1.16e+06	-	n
12	Unk	PCB-37	2000.00	2.50e+09	1.05	y	30:16	-	1.19	y
13	IS	13C-PCB-37	100.00	1.05e+08	1.09	y	30:16	-	1.46	y
14	Unk	PCB-54	2000.00	1.96e+09	0.78	y	25:31	-	1.05	y
15	IS/RT	13C-PCB-54	100.00	9.30e+07	0.79	y	25:29	-	1.30	y
16	Unk	PCB-104	2000.00	1.52e+09	1.56	y	29:57	-	1.10	y
17	IS	13C-PCB-104	100.00	6.89e+07	1.59	y	29:56	-	0.960	y
18	C/Up	13C-PCB-28	100.00	1.04e+08	1.07	y	26:36	-	1.45	y
19	RS	13C-PCB-52	100.00	7.18e+07	0.78	y	28:50	7.18e+05	-	n
20	Unk	PCB-81	2000.00	1.97e+09	0.78	y	36:03	-	1.18	y
21	IS	13C-PCB-81	100.00	8.33e+07	0.80	y	36:01	-	1.33	y
22	Unk	PCB-77	2000.00	1.93e+09	0.77	y	36:37	-	1.13	y
23	IS/RT	13C-PCB-77	100.00	8.57e+07	0.80	y	36:35	-	1.37	y
24	Unk	PCB-155	2000.00	1.57e+09	1.28	y	34:06	-	1.10	y
25	IS	13C-PCB-155	100.00	7.15e+07	1.27	y	34:05	-	1.15	y
26	C/Up	13C-PCB-111	100.00	7.85e+07	1.59	y	36:10	-	1.26	y
27	RS	13C-PCB-101	100.00	6.24e+07	1.60	y	34:32	6.24e+05	-	n
28	Unk	PCB-123	2000.00	1.68e+09	1.54	y	38:14	-	1.10	y
29	IS	13C-PCB-123	100.00	7.67e+07	1.59	y	38:13	-	1.36	y
30	Unk	PCB-118	2000.00	1.75e+09	1.55	y	38:24	-	1.11	y
31	IS	13C-PCB-118	100.00	7.89e+07	1.59	y	38:23	-	1.40	y
32	Unk	PCB-114	2000.00	1.66e+09	1.56	y	39:00	-	1.10	y
33	IS	13C-PCB-114	100.00	7.54e+07	1.59	y	39:00	-	1.33	y
34	Unk	PCB-105	2000.00	1.66e+09	1.54	y	39:50	-	1.09	y
35	IS	13C-PCB-105	100.00	7.61e+07	1.59	y	39:48	-	1.35	y
36	Unk	PCB-126	2000.00	1.61e+09	1.58	y	41:58	-	1.12	y
37	IS	13C-PCB-126	100.00	7.20e+07	1.61	y	41:57	-	1.27	y
38	Unk	PCB-167	2000.00	1.50e+09	1.25	y	43:19	-	1.01	y
39	IS	13C-PCB-167	100.00	7.47e+07	1.25	y	43:17	-	1.32	y
40	Unk	PCB-156	2000.00	1.48e+09	1.24	y	44:33	-	1.03	y
41	IS	13C-PCB-156	100.00	7.22e+07	1.26	y	44:31	-	1.28	y
42	Unk	PCB-157	2000.00	1.46e+09	1.25	y	44:48	-	0.985	y
43	IS	13C-PCB-157	100.00	7.42e+07	1.26	y	44:46	-	1.31	y
44	Unk	PCB-169	2000.00	1.36e+09	1.24	y	46:41	-	0.988	y
45	IS	13C-PCB-169	100.00	6.89e+07	1.26	y	46:40	-	1.22	y
46	Unk	PCB-188	2000.00	1.64e+09	1.05	y	39:35	-	1.07	y
47	IS	13C-PCB-188	100.00	7.66e+07	1.06	y	39:35	-	1.36	y
48	Unk	PCB-189	2000.00	1.31e+09	1.04	y	48:20	-	1.09	y
49	IS	13C-PCB-189	100.00	5.99e+07	1.04	y	48:20	-	1.06	y
50	Unk	PCB-202	2000.00	1.16e+09	0.88	y	44:43	-	1.04	y
51	IS	13C-PCB-202	100.00	5.54e+07	0.90	y	44:41	-	0.981	y
52	C/Up	13C-PCB-178	100.00	4.59e+07	1.06	y	42:13	-	0.813	y
53	RS	13C-PCB-138	100.00	5.65e+07	1.25	y	41:27	5.65e+05	-	n

54	Unk	PCB-205	2000.00	1.25e+09	0.87	y	49:59	-	1.07	y	
55	IS	13C-PCB-205	100.00	5.85e+07	0.92	y	49:59	-	1.42	y	
56	Unk	PCB-208	2000.00	1.16e+09	1.38	y	49:04	-	0.931	y	
57	IS	13C-PCB-208	100.00	6.20e+07	0.78	y	49:03	-	1.51	y	
58	Unk	PCB-206	2000.00	8.49e+08	1.38	y	51:11	-	0.943	y	
59	IS	13C-PCB-206	100.00	4.50e+07	0.78	y	51:10	-	1.09	y	
60	Unk	PCB-209	2000.00	1.25e+09	1.18	y	52:21	-	1.14	y	
61	IS	13C-PCB-209	100.00	5.48e+07	1.20	y	52:21	-	1.33	y	
62	RS	13C-PCB-194	100.00	4.12e+07	0.91	y	49:44	4.12e+05	-	n	

Analyst: _____ Date: 8/10/13

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 11AUG16Z Sam:1 Analysis Date: 11-AUG-16 11:26:03

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.10	2.66-3.60	y	48.3	37.5 - 62.5
PCB-3	M/M+2	3.15	2.66-3.60	y	47.8	37.5 - 62.5
PCB-4	M/M+2	1.52	1.33-1.79	y	47.2	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	48.7	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	47.9	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	47.8	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	49.8	37.5 - 62.5
PCB-77	M/M+2	0.78	0.65-0.89	y	48.3	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	49.0	37.5 - 62.5
PCB-104	M+2/M+4	1.56	1.32-1.78	y	47.6	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	48.6	37.5 - 62.5
PCB-114	M+2/M+4	1.53	1.32-1.78	y	47.8	37.5 - 62.5
PCB-118	M+2/M+4	1.52	1.32-1.78	y	49.5	37.5 - 62.5
PCB-123	M+2/M+4	1.51	1.32-1.78	y	49.1	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	49.0	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	48.6	37.5 - 62.5
PCB-156	M+2/M+4	1.22	1.05-1.43	y	49.5	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	51.1	37.5 - 62.5
PCB-167	M+2/M+4	1.23	1.05-1.43	y	50.6	37.5 - 62.5
PCB-169	M+2/M+4	1.28	1.05-1.43	y	49.3	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	48.7	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	49.3	37.5 - 62.5
PCB-202	M+2/M+4	0.88	0.76-1.02	y	49.3	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	49.7	37.5 - 62.5
PCB-206	M+4/M+6	1.40	1.13-1.53	y	49.8	37.5 - 62.5
PCB-208	M+4/M+6	1.45	1.13-1.53	y	48.5	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	51.5	37.5 - 62.5

Analyst: [signature] Date: 8/12/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 11AUG16Z Sam:1 Analysis Date: 11-AUG-16 11:26:03

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.05	2.66-3.60	y	98.2	50.0 - 145
13C-PCB-3	M/M+2	3.19	2.66-3.60	y	101	50.0 - 145
13C-PCB-4	M/M+2	1.56	1.33-1.79	y	97.2	50.0 - 145
13C-PCB-15	M/M+2	1.57	1.33-1.79	y	98.9	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	99.2	50.0 - 145
13C-PCB-37	M/M+2	1.14	0.88-1.20	y	97.4	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	98.0	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	100.0	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	96.2	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	98.7	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	98.5	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	99.0	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	98.2	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	96.9	50.0 - 145
13C-PCB-126	M+2/M+4	1.57	1.32-1.78	y	95.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.26	1.05-1.43	y	100	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	99.4	50.0 - 145
13C-PCB-157	M+2/M+4	1.25	1.05-1.43	y	97.4	50.0 - 145
13C-PCB-167	M+2/M+4	1.25	1.05-1.43	y	98.8	50.0 - 145
13C-PCB-169	M+2/M+4	1.24	1.05-1.43	y	99.2	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	101	50.0 - 145
13C-PCB-189	M+2/M+4	1.04	0.89-1.21	y	98.4	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	99.8	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	95.9	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	102	50.0 - 145
13C-PCB-208	M+2/M+4	0.79	0.65-0.89	y	100	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	97.3	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.10	0.88-1.20	y	99.2	65.0 - 135
13C-PCB-111	M+2/M+4	1.58	1.32-1.78	y	101	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	101	75.0 - 125

Analyst: _____ Date: 8/18/16

FAL ID: ST081116Z3 Filename: 11AUG16Z Sam:1 Acquired: 11-AUG-16 11:26:03 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R150603A CS0301 ConCal: NA EndCal: NA
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.56e+07	3.10 y	14:26	1.05	48.3		2.50	-	-	*	-
13C-PCB-1	1.29e+08	3.05 y	14:25	1.14	98.2		2.50				98.2
PCB-3	6.47e+07	3.15 y	16:52	1.05	47.8		2.50	-	-	*	-
13C-PCB-3	1.29e+08	3.19 y	16:51	1.11	101		2.50				101
PCB-4	4.08e+07	1.52 y	18:05	1.14	47.2		2.50	-	-	*	-
13C-PCB-4	7.61e+07	1.56 y	18:04	0.68	97.2		2.50				97.2
PCB-15	6.23e+07	1.56 y	23:39	1.09	48.7		2.50	-	-	*	-
13C-PCB-15	1.17e+08	1.57 y	23:38	1.02	98.9		2.50				98.9
PCB-19	3.92e+07	1.04 y	21:59	1.16	47.9		2.50	-	-	*	-
13C-PCB-19	7.06e+07	1.09 y	21:57	0.61	99.2		2.50				99.2
13C-PCB-9	1.16e+08	1.59 y	19:45	-	84.8		2.50				
PCB-37	5.25e+07	1.04 y	30:18	1.14	47.8		2.50	-	-	*	-
13C-PCB-37	9.62e+07	1.14 y	30:16	1.38	97.4		2.50				97.4
PCB-54	4.61e+07	0.78 y	25:31	1.05	49.8		2.50	-	-	*	-
13C-PCB-54	8.82e+07	0.79 y	25:29	1.25	98.0		2.50				98.0
PCB-104	3.51e+07	1.56 y	29:56	1.14	47.6		2.50	-	-	*	-
13C-PCB-104	6.45e+07	1.60 y	29:55	0.91	98.7		2.50				98.7
13C-PCB-28	1.06e+08	1.10 y	26:34	1.48	99.2		2.50				99.2
13C-PCB-52	7.18e+07	0.78 y	28:51	-	86.2		2.50				
PCB-81	4.21e+07	0.78 y	36:04	1.14	49.0		2.50	-	-	*	-
13C-PCB-81	7.50e+07	0.79 y	36:03	1.27	96.2		2.50				96.2
PCB-77	4.15e+07	0.78 y	36:37	1.10	48.3		2.50	-	-	*	-
13C-PCB-77	7.80e+07	0.80 y	36:37	1.27	100.0		2.50				100.0
PCB-155	3.60e+07	1.27 y	34:06	1.11	48.6		2.50	-	-	*	-
13C-PCB-155	6.68e+07	1.26 y	34:05	1.09	100		2.50				100
13C-PCB-111	7.73e+07	1.58 y	36:10	1.25	101		2.50				101
13C-PCB-101	6.14e+07	1.60 y	34:32	-	84.1		2.50				
PCB-123	3.39e+07	1.51 y	38:15	1.05	49.1		2.50	-	-	*	-
13C-PCB-123	6.56e+07	1.57 y	38:13	1.20	96.9		2.50				96.9
PCB-118	3.82e+07	1.52 y	38:25	1.07	49.5		2.50	-	-	*	-
13C-PCB-118	7.25e+07	1.58 y	38:23	1.31	98.2		2.50				98.2
PCB-114	3.56e+07	1.53 y	39:01	1.08	47.8		2.50	-	-	*	-
13C-PCB-114	6.87e+07	1.58 y	39:01	1.23	99.0		2.50				99.0
PCB-105	3.61e+07	1.54 y	39:50	1.08	48.6		2.50	-	-	*	-
13C-PCB-105	6.87e+07	1.60 y	39:49	1.24	98.5		2.50				98.5
PCB-126	3.31e+07	1.58 y	41:59	1.07	49.0		2.50	-	-	*	-
13C-PCB-126	6.32e+07	1.57 y	41:59	1.17	95.7		2.50				95.7
PCB-167	3.42e+07	1.23 y	43:19	0.98	50.6		2.50	-	-	*	-
13C-PCB-167	6.90e+07	1.25 y	43:18	1.24	98.8		2.50				98.8
PCB-156	3.30e+07	1.22 y	44:33	1.01	49.5		2.50	-	-	*	-
13C-PCB-156	6.60e+07	1.27 y	44:32	1.18	99.4		2.50				99.4
PCB-157	3.30e+07	1.25 y	44:48	0.96	51.1		2.50	-	-	*	-
13C-PCB-157	6.71e+07	1.25 y	44:46	1.22	97.4		2.50				97.4
PCB-169	3.04e+07	1.28 y	46:42	1.00	49.3		2.50	-	-	*	-
13C-PCB-169	6.18e+07	1.24 y	46:42	1.11	99.2		2.50				99.2
PCB-188	3.71e+07	1.05 y	39:35	1.09	48.7		2.50	-	-	*	-
13C-PCB-188	6.98e+07	1.06 y	39:34	1.22	101		2.50				101
PCB-189	3.02e+07	1.06 y	48:22	1.14	49.3		2.50	-	-	*	-
13C-PCB-189	5.37e+07	1.04 y	48:20	0.97	98.4		2.50				98.4
PCB-202	2.56e+07	0.88 y	44:43	1.05	49.3		2.50	-	-	*	-
13C-PCB-202	4.92e+07	0.91 y	44:42	0.88	99.8		2.50				99.8
13C-PCB-178	4.39e+07	1.05 y	42:13	0.77	101		2.50				101
13C-PCB-138	5.63e+07	1.25 y	41:26	-	80.7		2.50				

FAL ID: ST081116Z3 Filename: 11AUG16Z Sam:1 Acquired: 11-AUG-16 11:26:03 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R150603A CS0301 ConCal: NA EndCal: NA
Results: GC Column: DB1 Amount: 1.000

PCB-205	2.70e+07	0.88	y	50:01	1.02	49.7	2.50	-	-	*	-
13C-PCB-205	5.33e+07	0.90	y	49:59	1.38	95.9	2.50				95.9
PCB-208	2.39e+07	1.45	y	49:04	0.93	48.5	2.50	-	-	*	-
13C-PCB-208	5.30e+07	0.79	y	49:03	1.31	100	2.50				100
PCB-206	1.94e+07	1.40	y	51:11	0.94	49.8	2.50	-	-	*	-
13C-PCB-206	4.16e+07	0.79	y	51:10	1.01	102	2.50				102
PCB-209	2.98e+07	1.18	y	52:22	1.10	51.5	2.50	-	-	*	-
13C-PCB-209	5.25e+07	1.20	y	52:21	1.34	97.3	2.50				97.3
13C-PCB-194	4.03e+07	0.90	y	49:44	-	80.0	2.50				

Analyst: [illegible] Date: 8/12/16

Frontier Analytical Laboratory - Acquisition Log

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

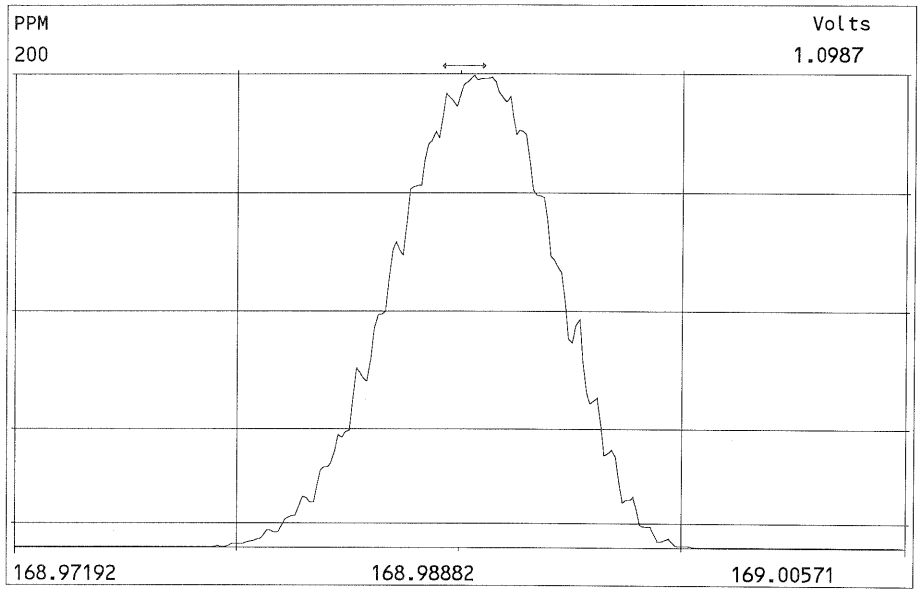
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
11AUG16Z	1	ST081116Z3	1668 CS3 R150603A CS0301	11-AUG-16 11:26:03	NA	NA	BS
11AUG16Z	2	ST081116Z0	1668 CS0 R151116A CS0001	11-AUG-16 12:25:59	NA	NA	BS
11AUG16Z	3	ST081116Z1	1668 CS1 R121023B CS0101	11-AUG-16 13:25:54	NA	NA	BS
11AUG16Z	4	ST081116Z2	1668 CS2 R130426B CS0201	11-AUG-16 14:25:51	NA	NA	BS
11AUG16Z	5	ST081116Z4	1668 CS4 R151116B CS0401	11-AUG-16 15:25:47	NA	NA	BS
11AUG16Z	6	ST081116Z5	1668 CS5 R130426C CS0501	11-AUG-16 16:25:44	NA	NA	BS
11AUG16Z	7	SB081116Z1	Solvent Blank	11-AUG-16 17:25:40	NA	NA	BS
11AUG16Z	8	QC081116Z1	QCS	11-AUG-16 18:25:35	NA	NA	BS
11AUG16Z	9	ST081116Z6	1668 CS3 R150603A CS0351	11-AUG-16 19:25:30	ST081116Z6	ST081116Z7	BS
11AUG16Z	10	SS081116Z1	DAILY 209 151201A CS20951	11-AUG-16 20:25:24	ST081116Z6	ST081116Z7	BS
11AUG16Z	11	03802-001-0001-LC1	CLCS02	11-AUG-16 21:25:17	ST081116Z6	ST081116Z7	BS
11AUG16Z	12	03802-001-0001-LC2	CLCSD02	11-AUG-16 22:25:09	ST081116Z6	ST081116Z7	BS
11AUG16Z	13	03807-001-0001-LC1	CLCS07	11-AUG-16 23:25:02	ST081116Z6	ST081116Z7	BS
11AUG16Z	14	03807-001-0001-LC2	CLCSD07	12-AUG-16 00:24:55	ST081116Z6	ST081116Z7	BS
11AUG16Z	15	03802-001-0001-MB	CBLK02	12-AUG-16 01:24:48	ST081116Z6	ST081116Z7	BS
11AUG16Z	16	03807-001-0001-MB	CBLK07	12-AUG-16 02:24:42	ST081116Z6	ST081116Z7	BS
11AUG16Z	17	10066-001-0001-SA	PX2603	12-AUG-16 03:24:35	ST081116Z6	ST081116Z7	BS
11AUG16Z	18	10066-003-0001-SA	PX2605	12-AUG-16 04:24:28	ST081116Z6	ST081116Z7	BS
11AUG16Z	19	SB081116Z2	Solvent Blank	12-AUG-16 05:24:20	ST081116Z6	ST081116Z7	BS
11AUG16Z	20	ST081116Z7	1668 CS3 150603A CS0352	12-AUG-16 06:24:12	ST081116Z6	ST081116Z7	BS

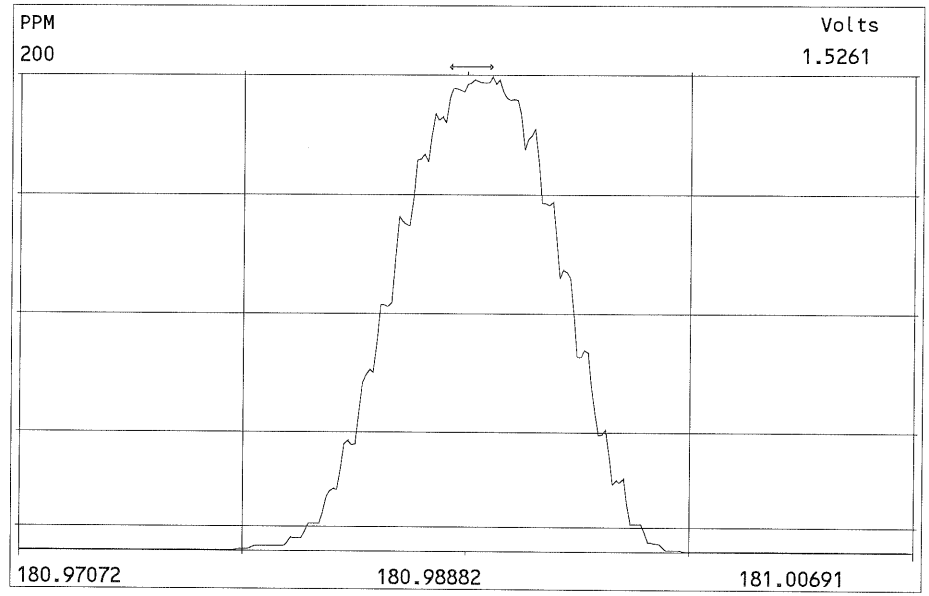
8/12/16

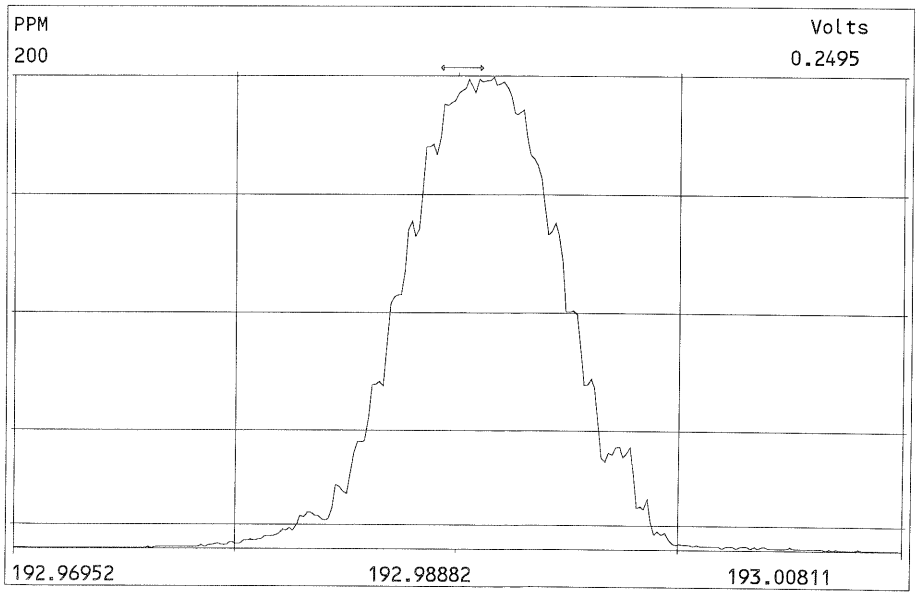
Data Backed Up:_____

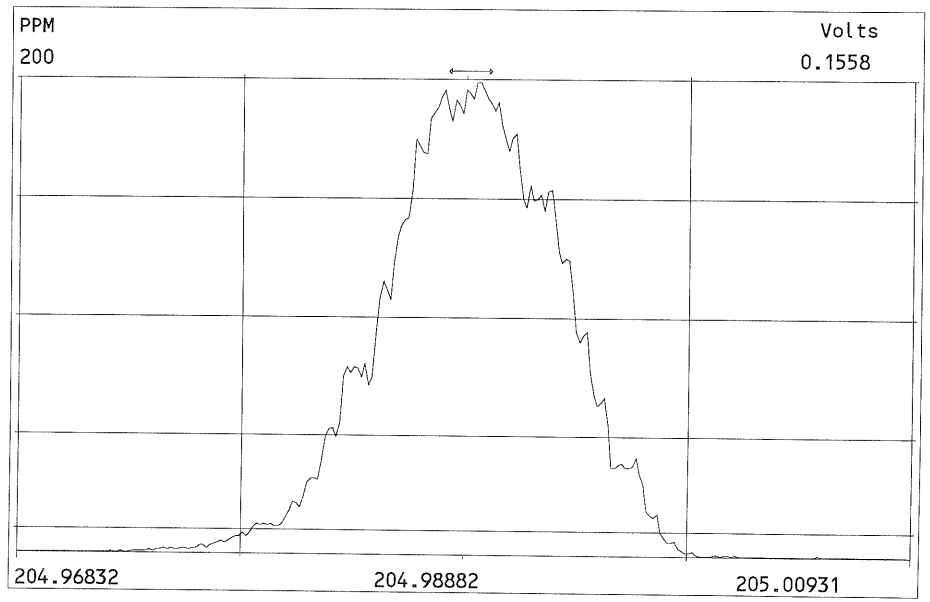
Date:_____

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



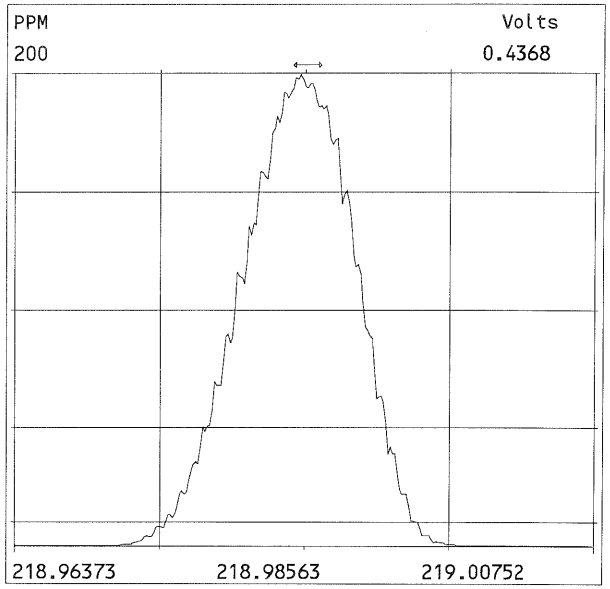


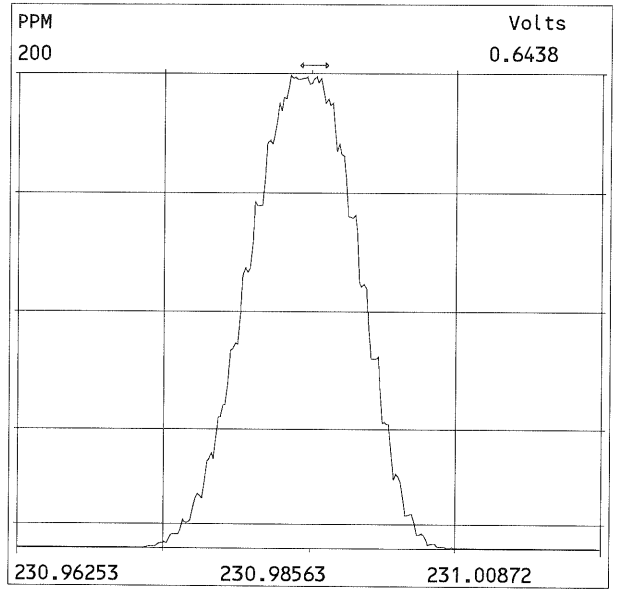


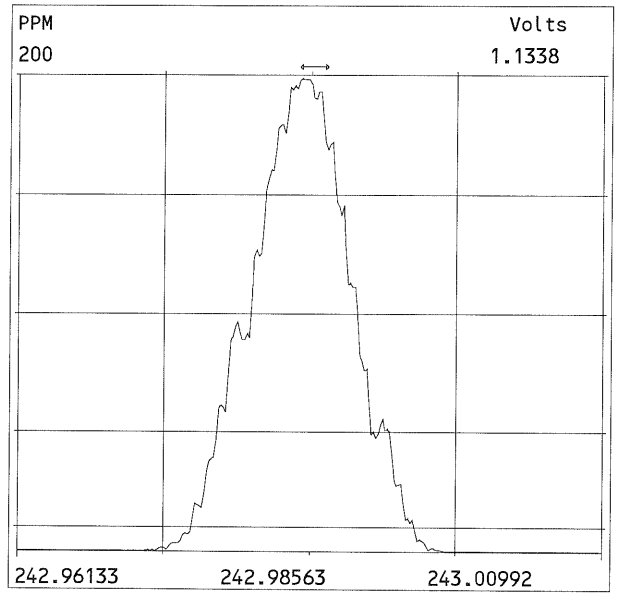


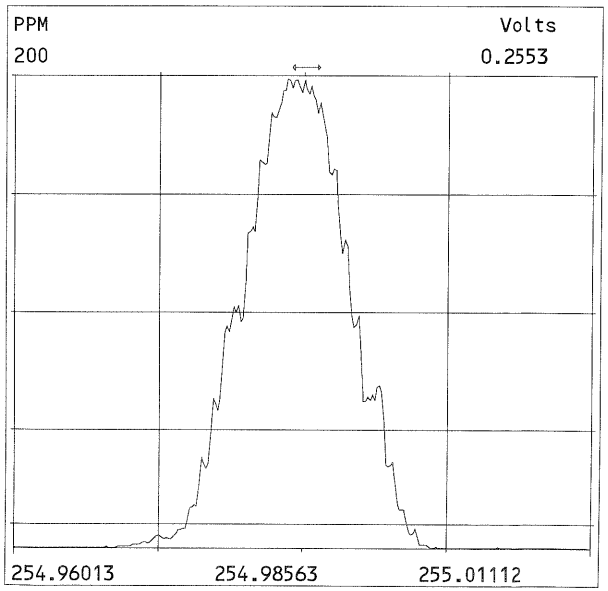
Peak Locate Examination:11-AUG-2016:11:22 File:11AUG16Z PFK01

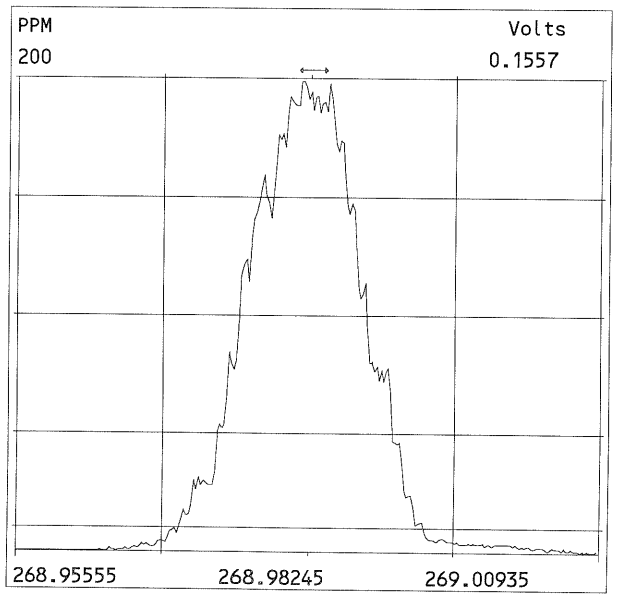
Experiment:1668PCB Function:2 Reference:PFK

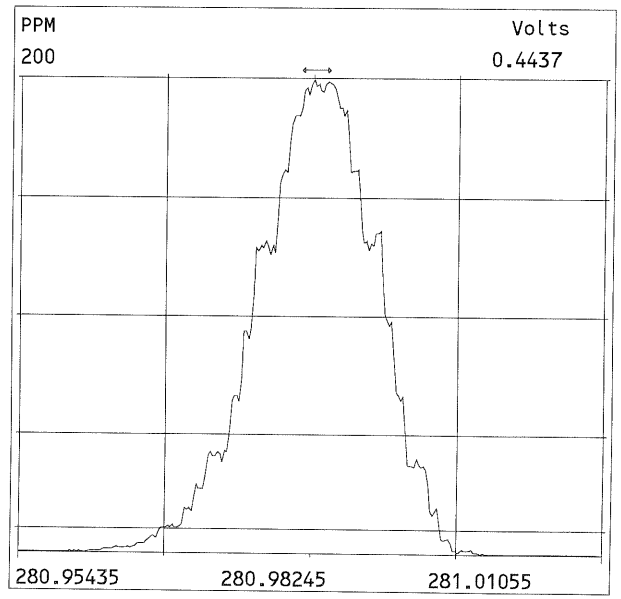






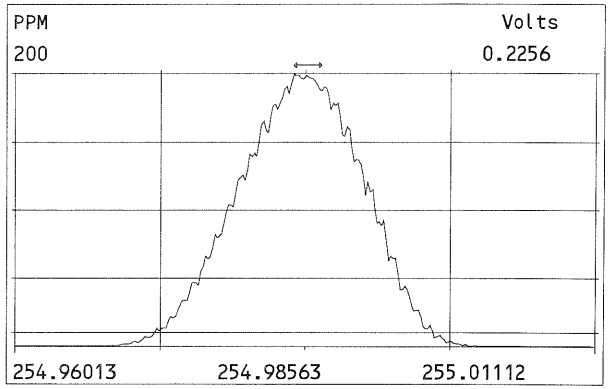


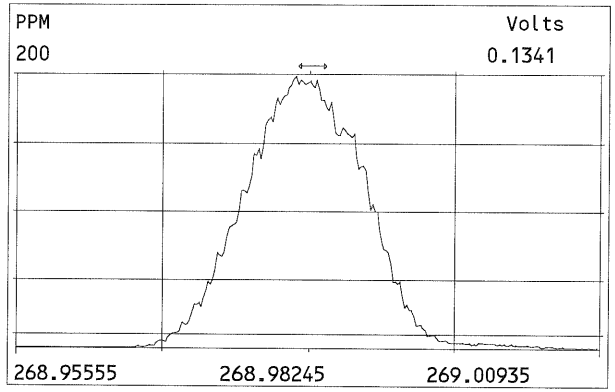


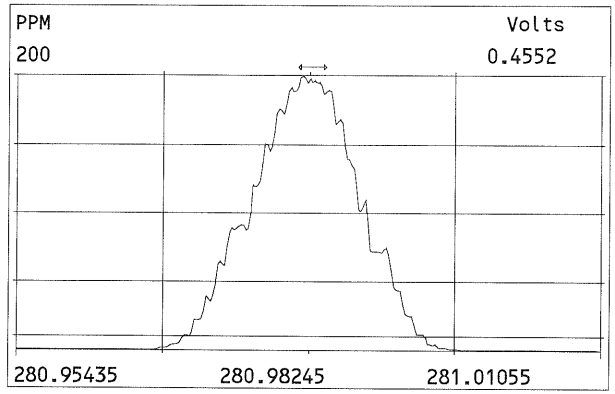


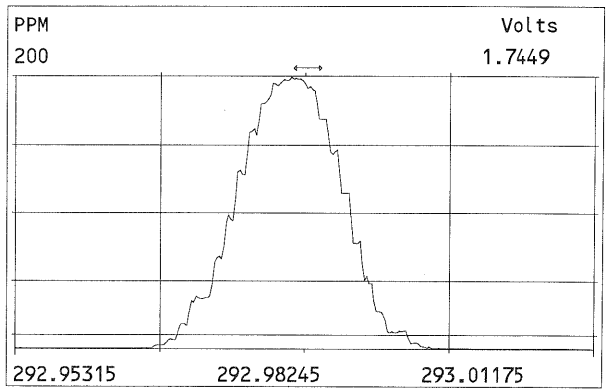
Peak Locate Examination:11-AUG-2016:11:22 File:11AUG16Z PFK01

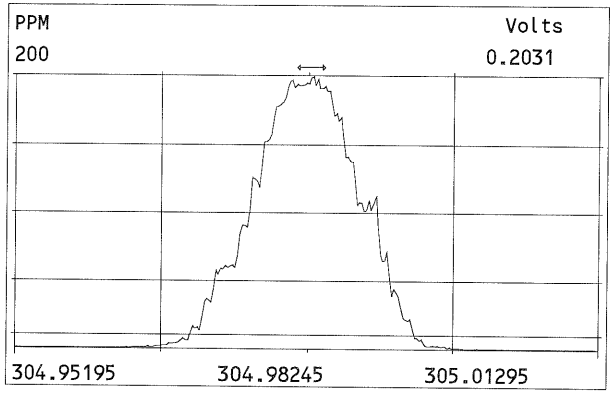
Experiment:1668PCB Function:3 Reference:PFK

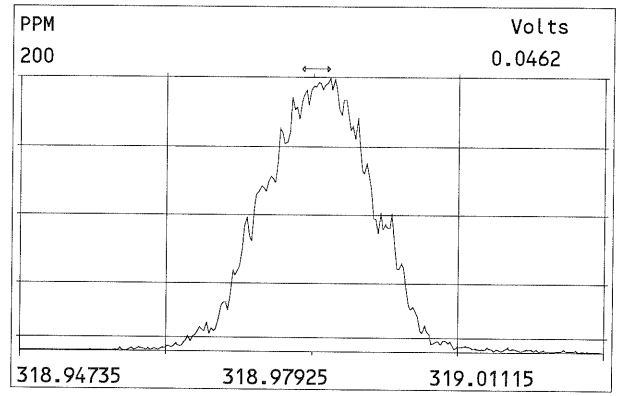


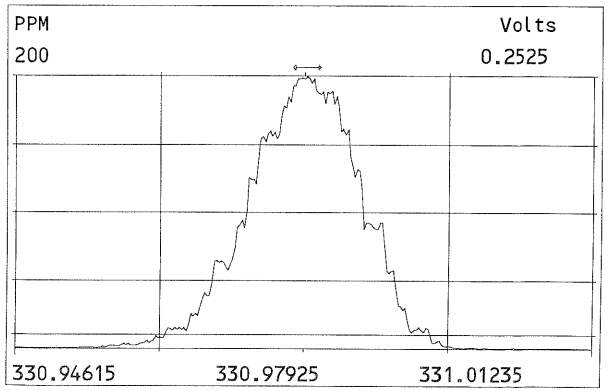


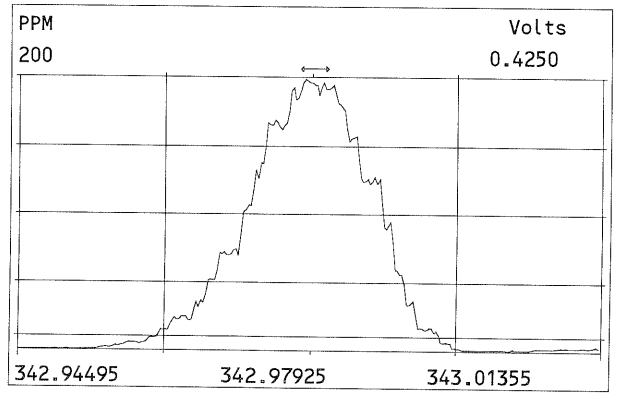






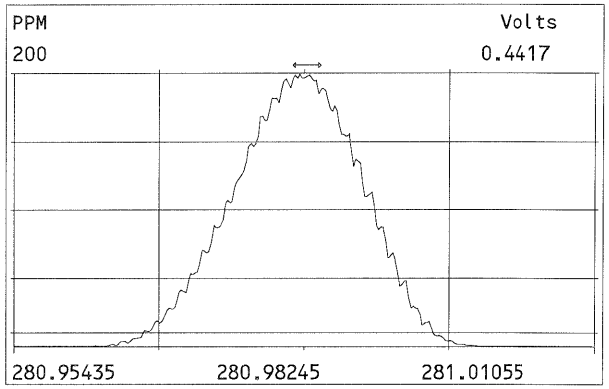


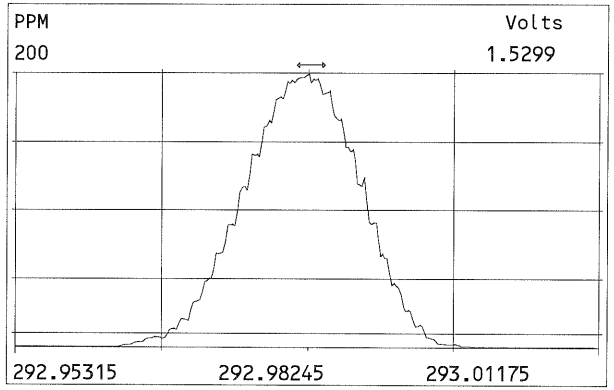


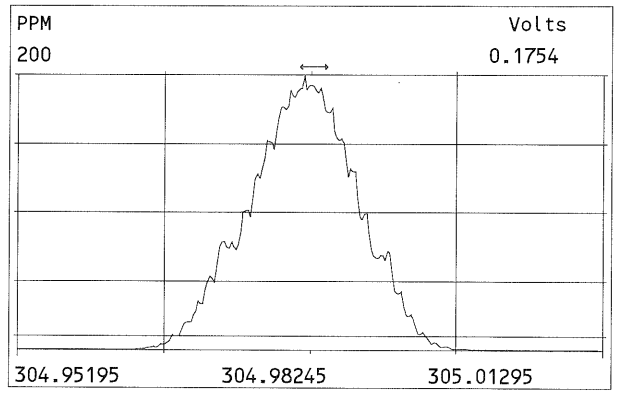


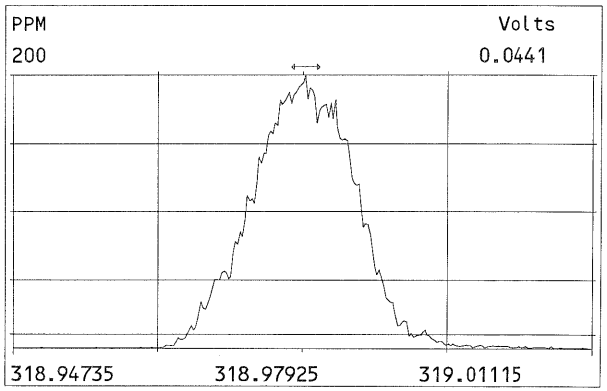
Peak Locate Examination:11-AUG-2016:11:23 File:11AUG16Z PFK01

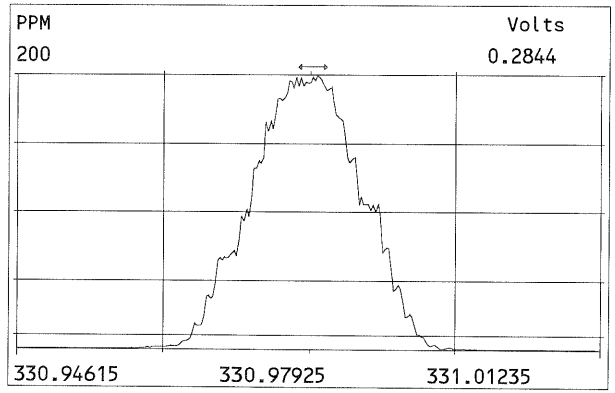
Experiment:1668PCB Function:4 Reference:PFK

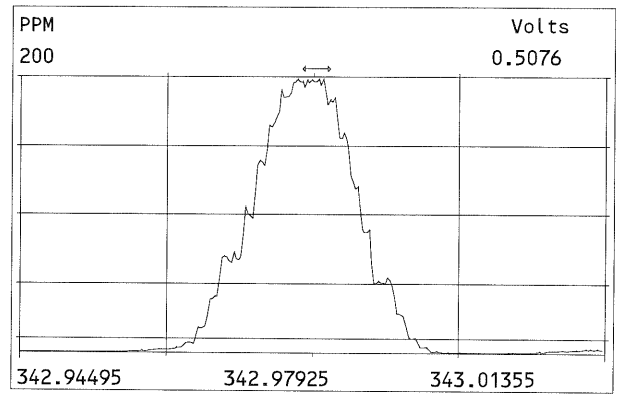


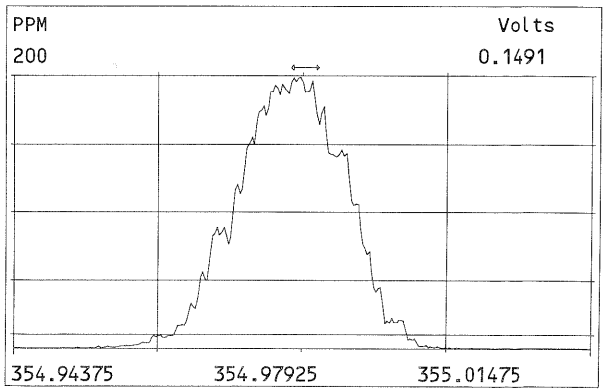


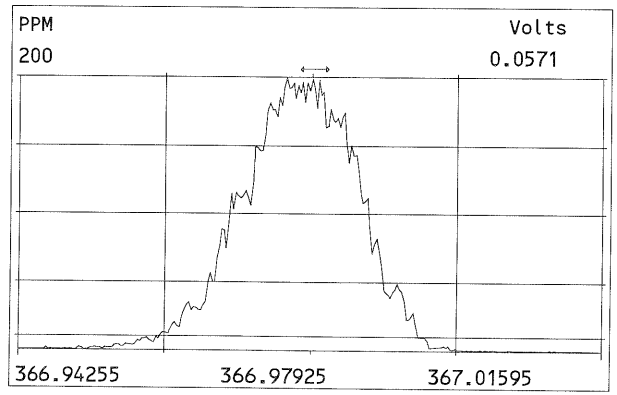


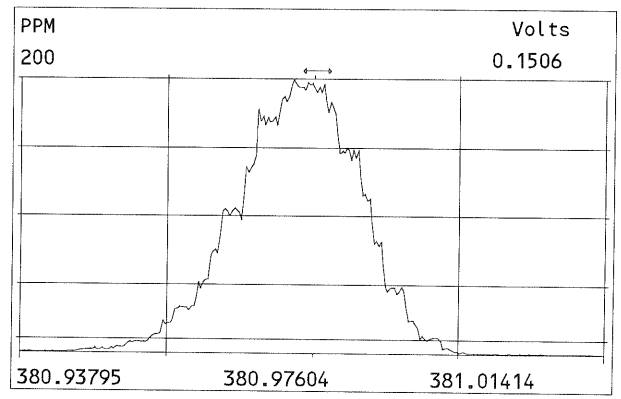




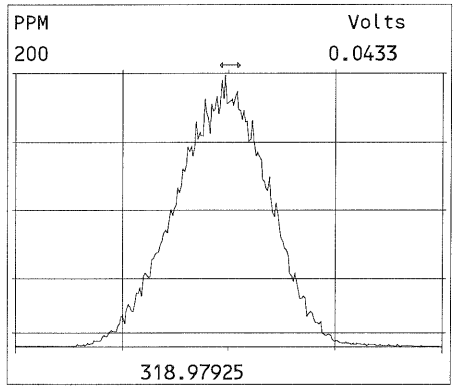


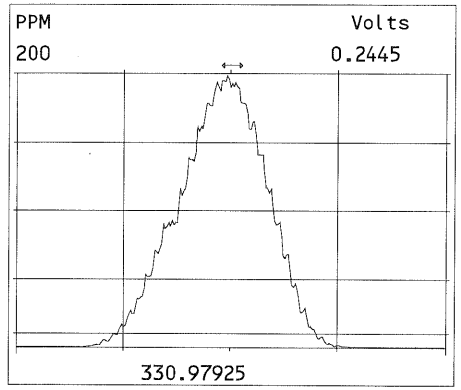


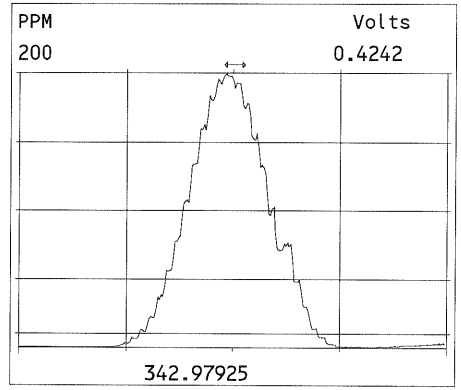


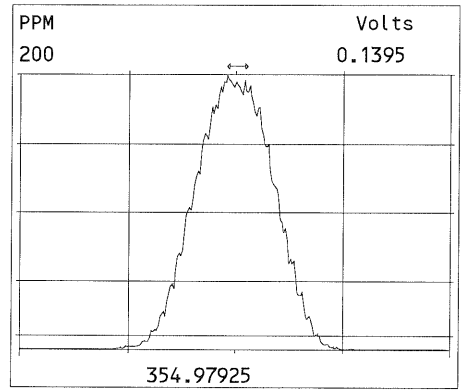


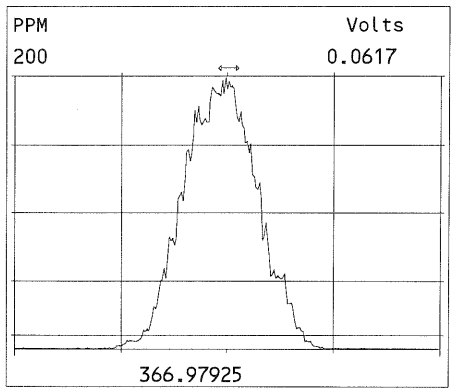
Peak Locate Examination:11-AUG-2016:11:24 File:11AUG16Z PFK01
Experiment:1668PCB Function:5 Reference:PFK

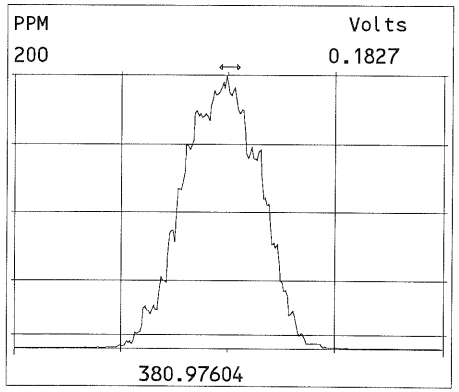


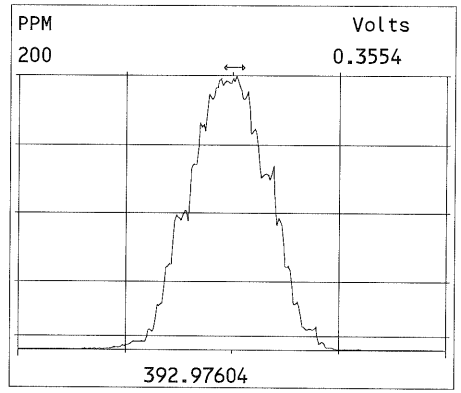


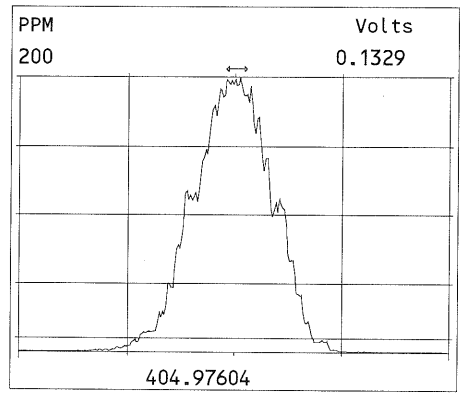


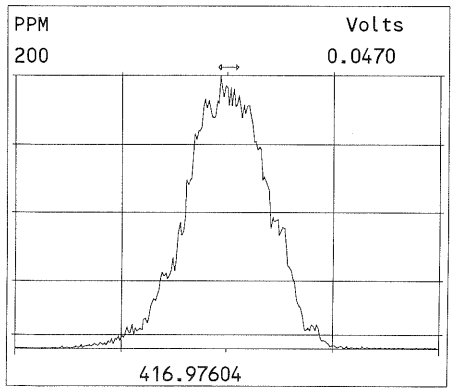


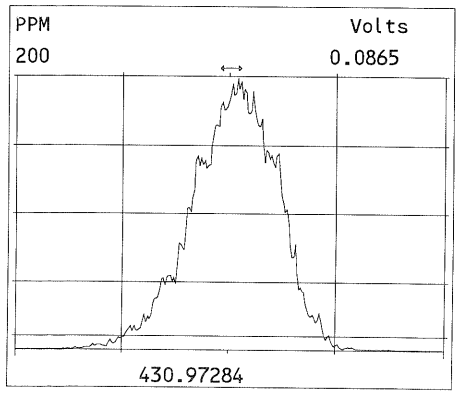


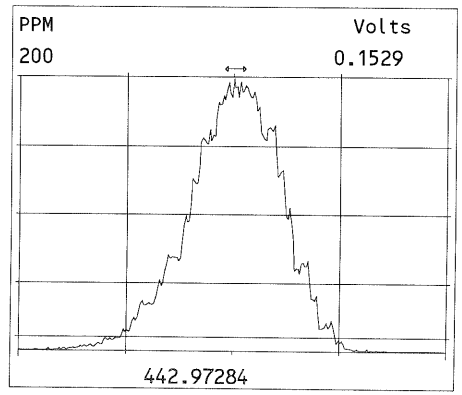






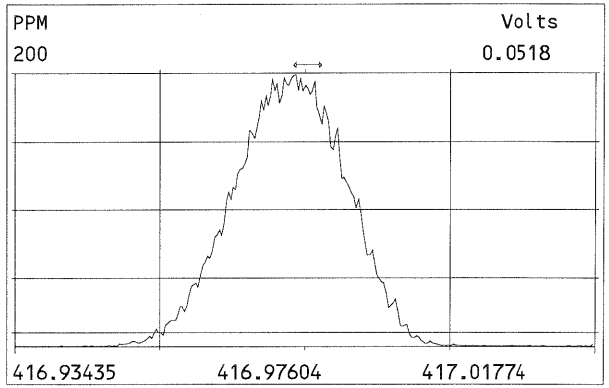


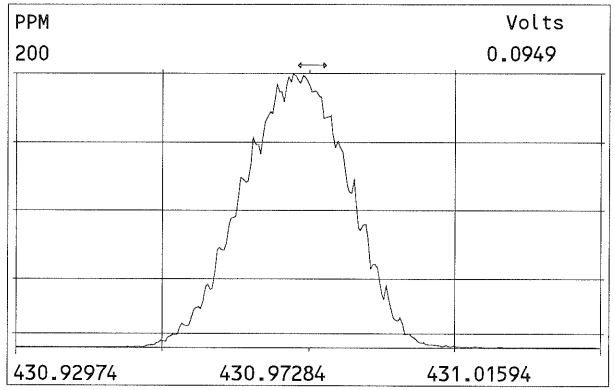


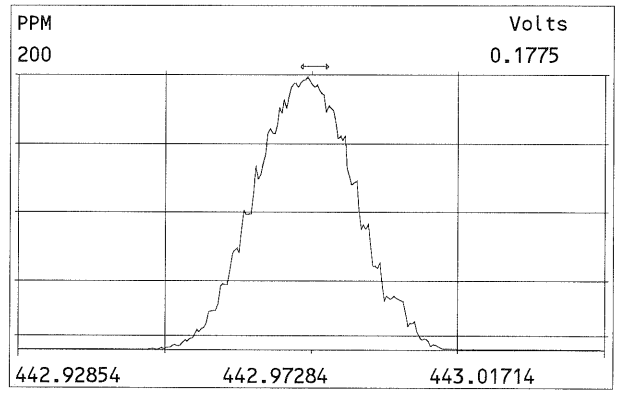


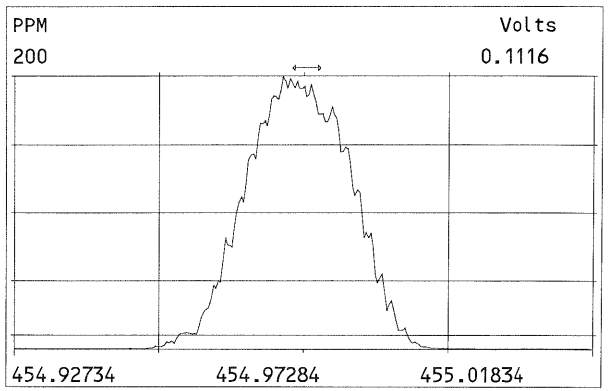
Peak Locate Examination:11-AUG-2016:11:25 File:11AUG16Z PFK01

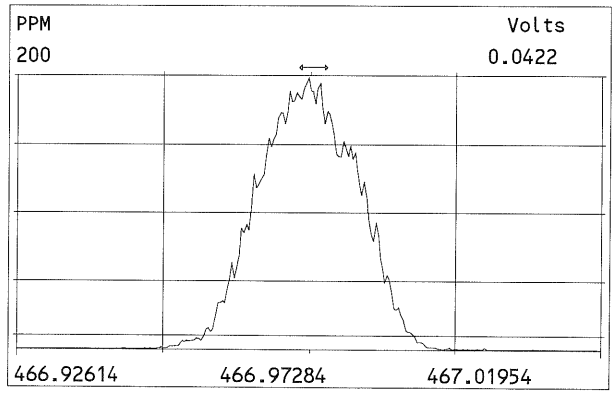
Experiment:1668PCB Function:6 Reference:PFK

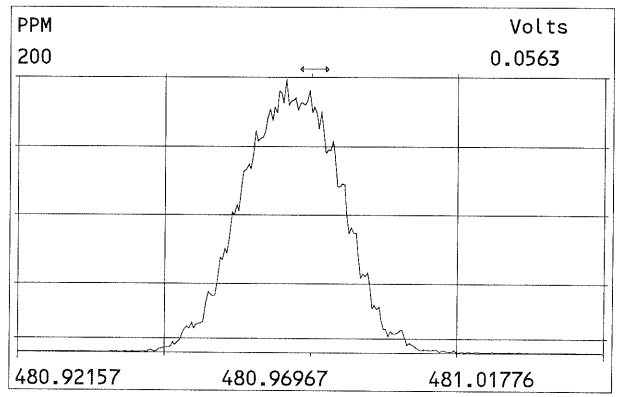


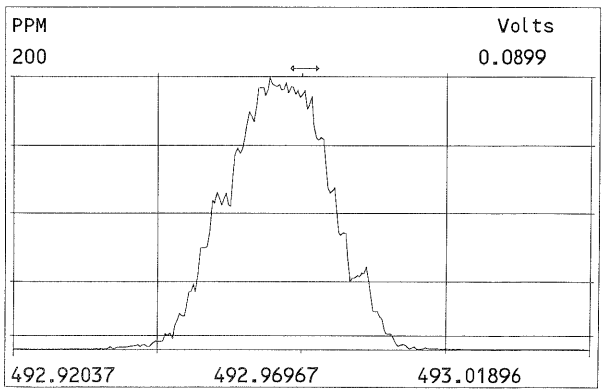


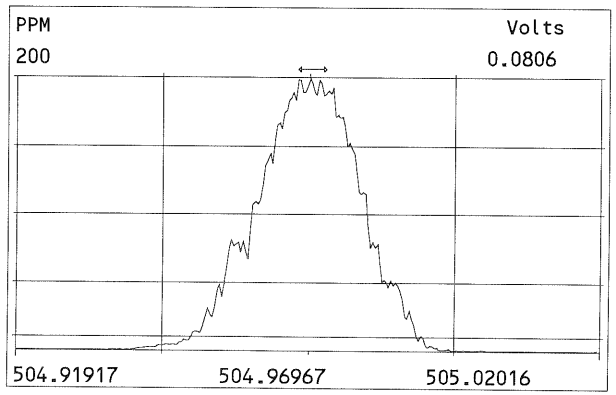


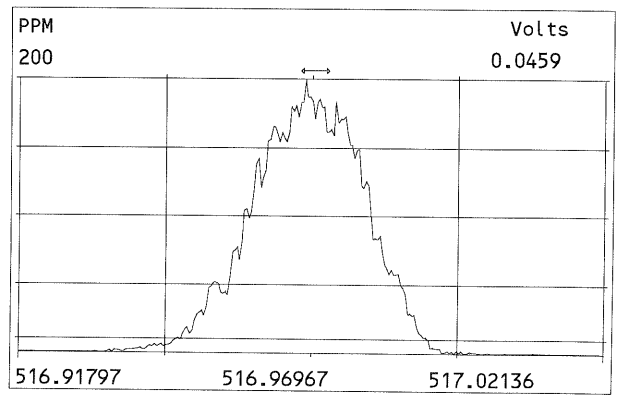




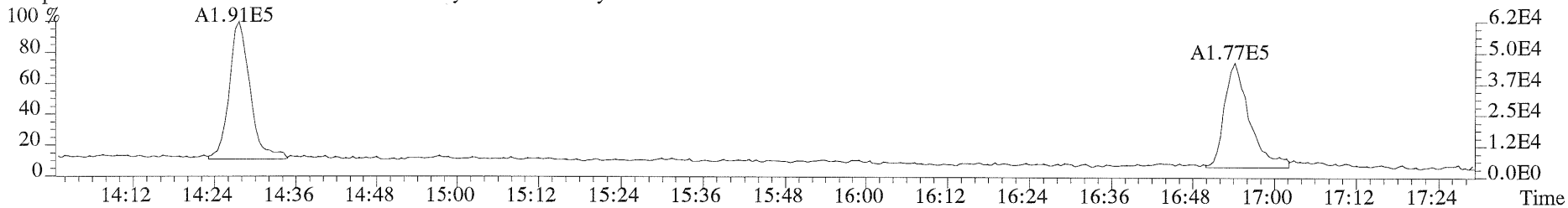








File:11AUG16Z #1-900 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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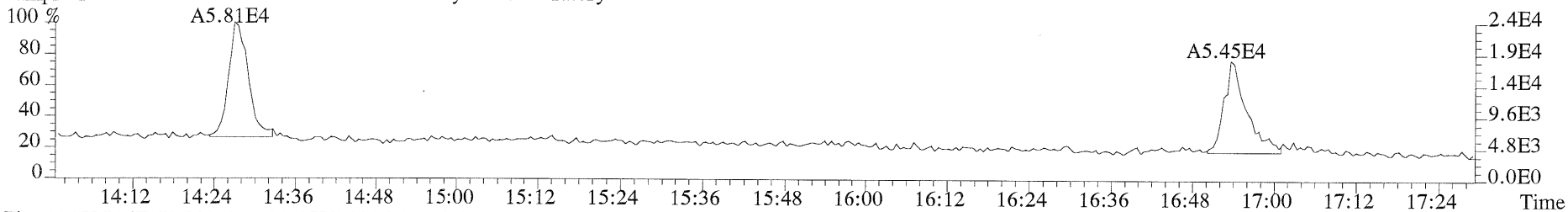
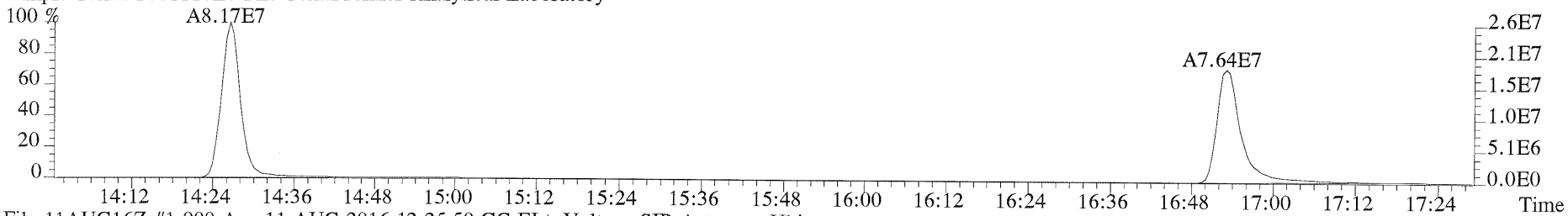
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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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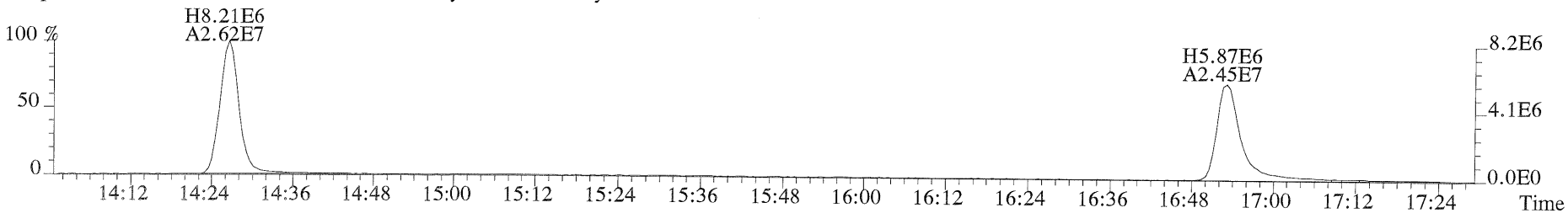
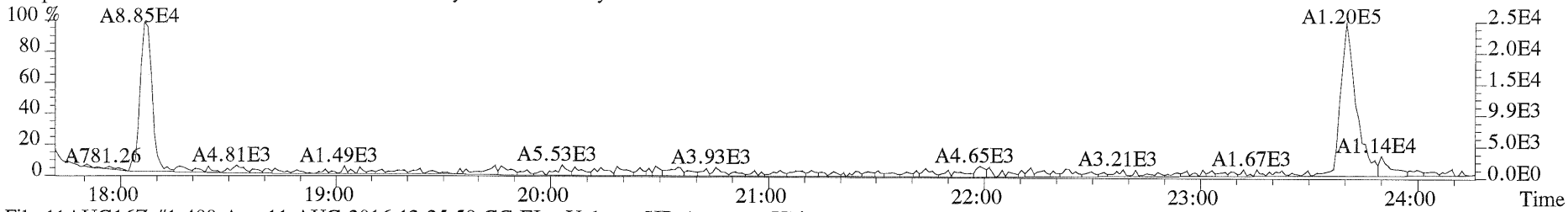
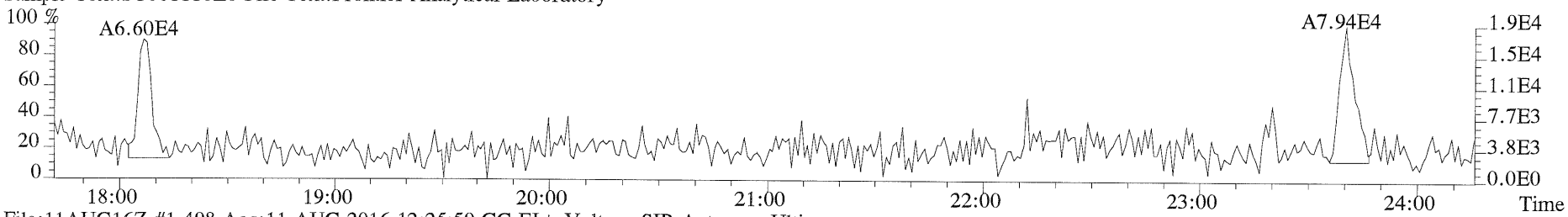
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



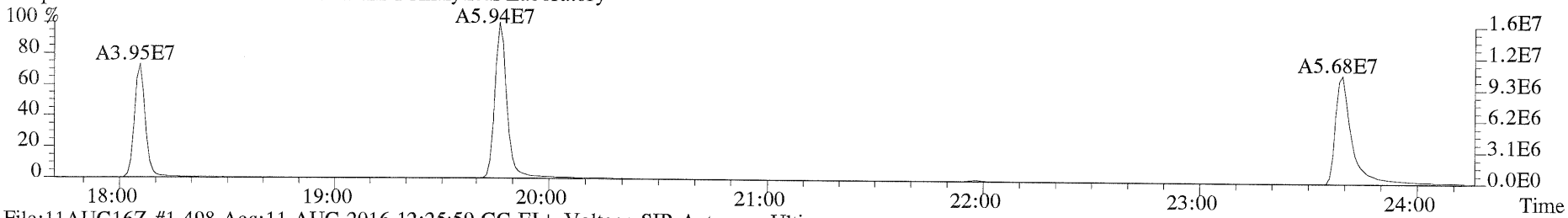
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



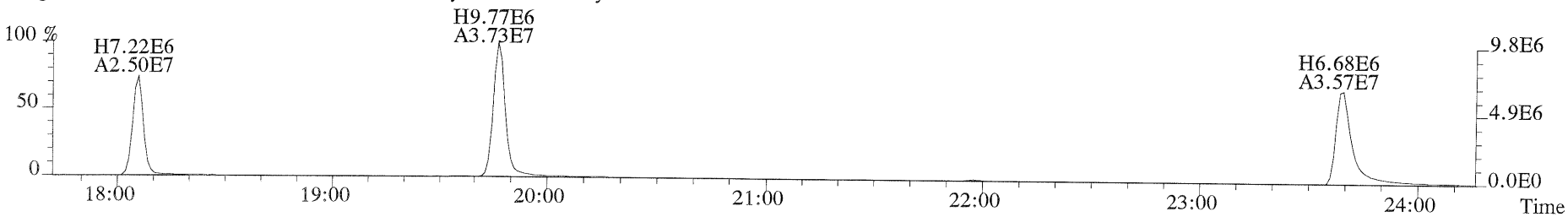
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



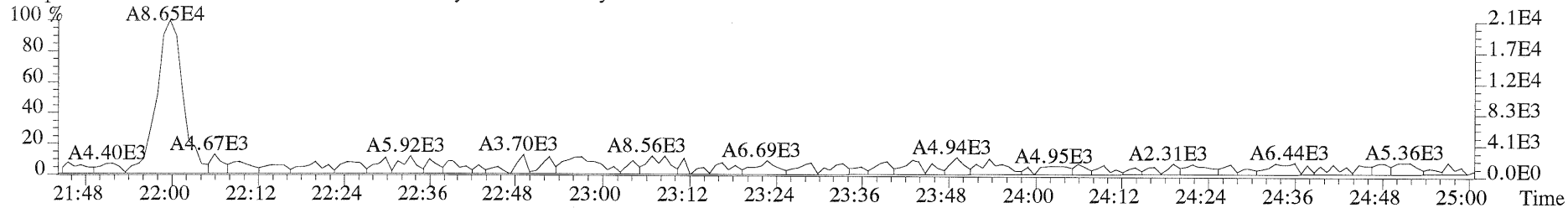
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



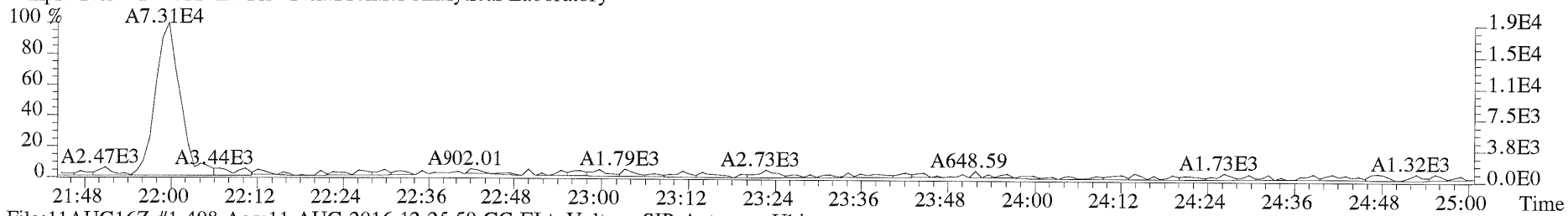
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



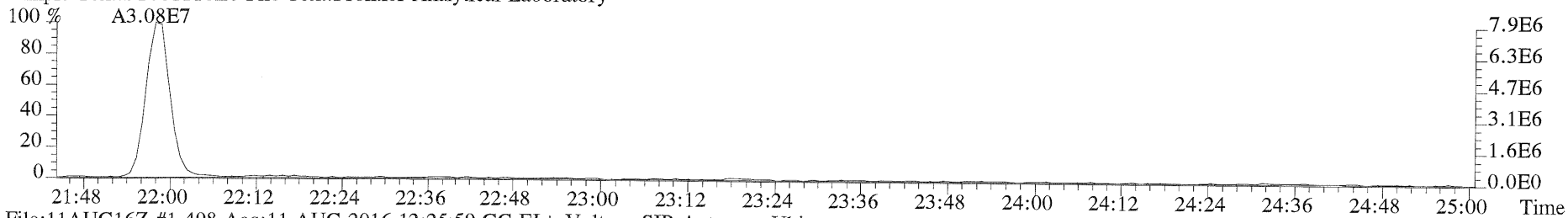
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



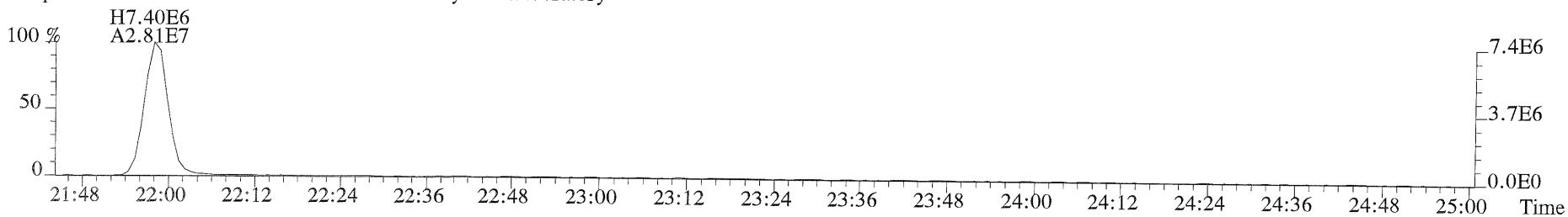
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



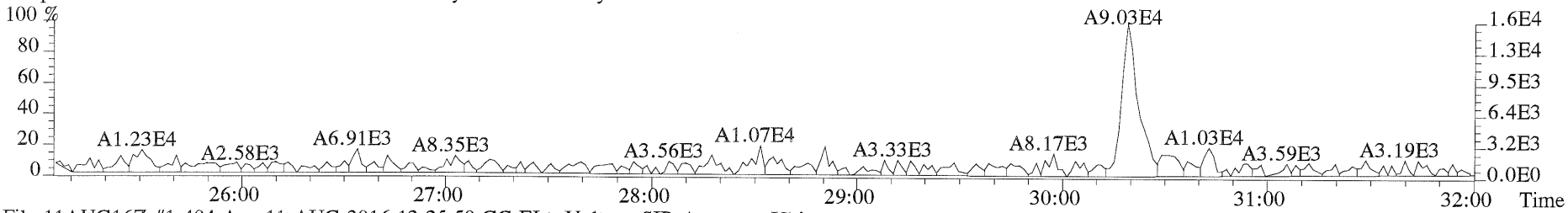
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



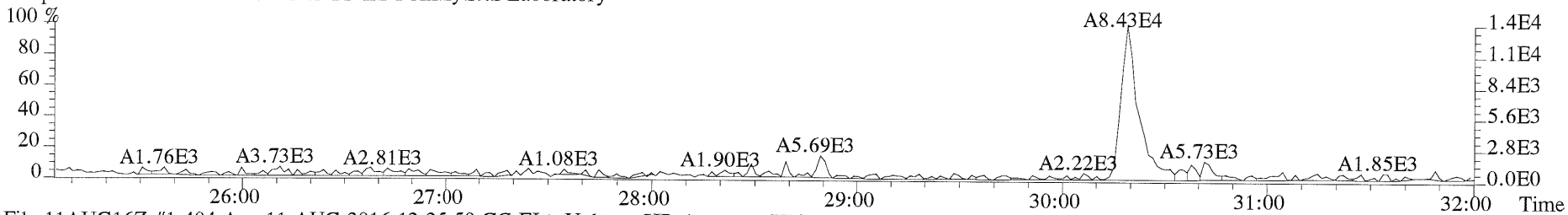
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



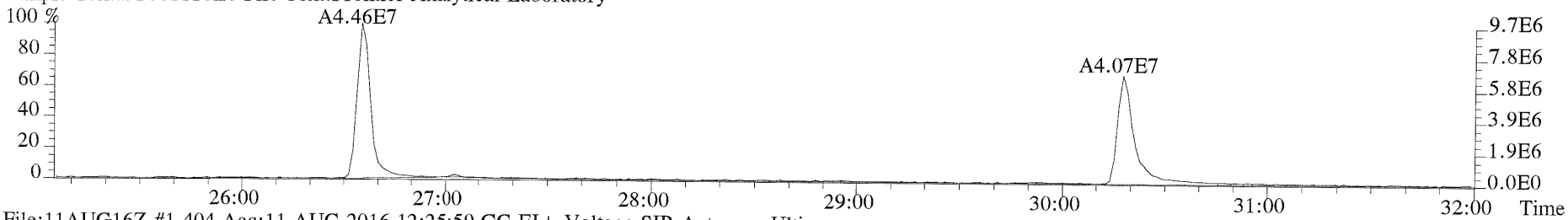
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



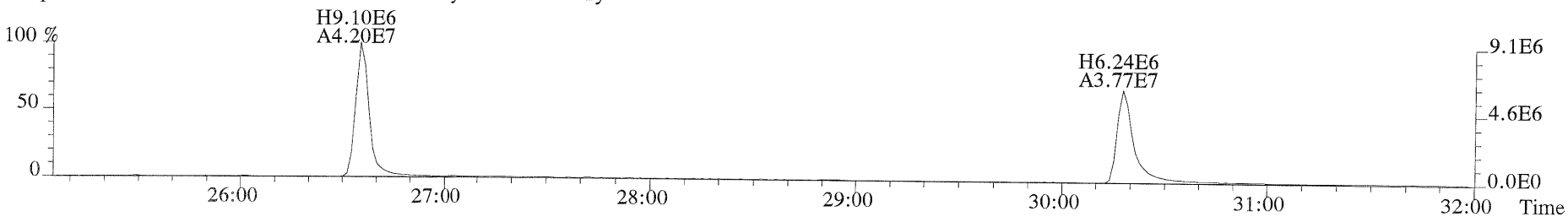
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



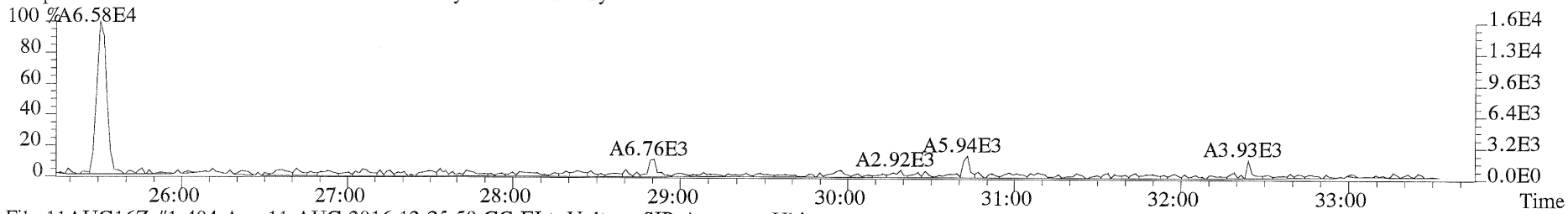
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



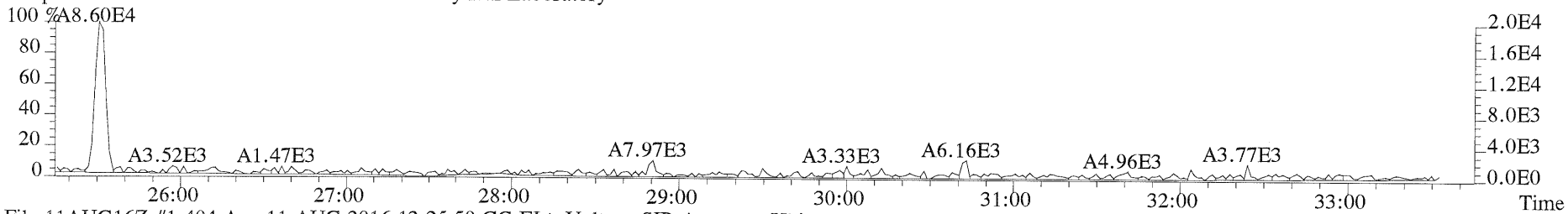
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



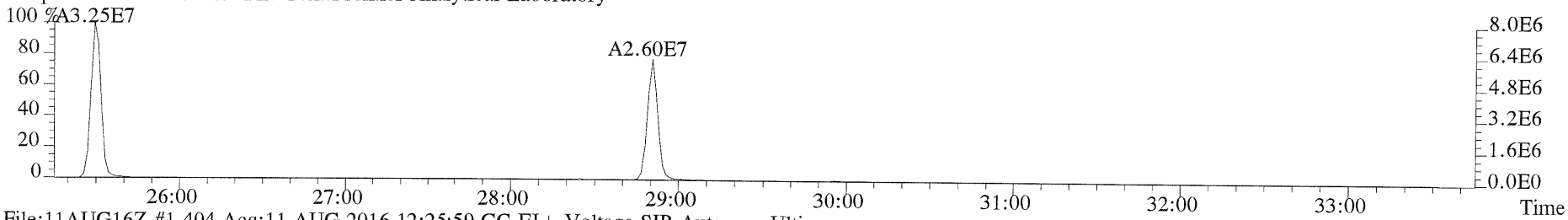
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



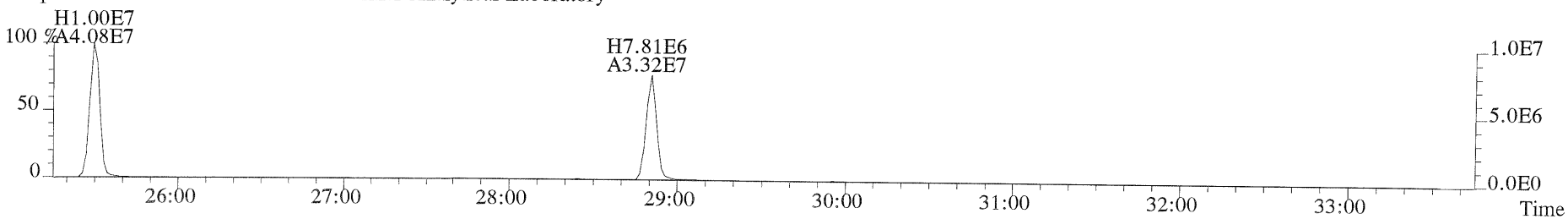
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



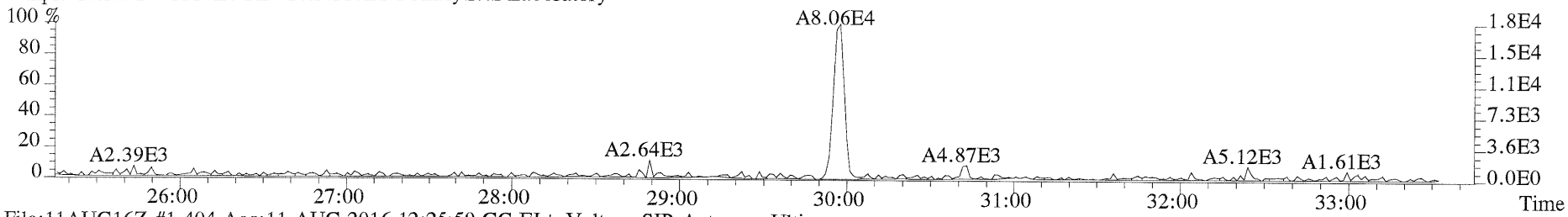
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



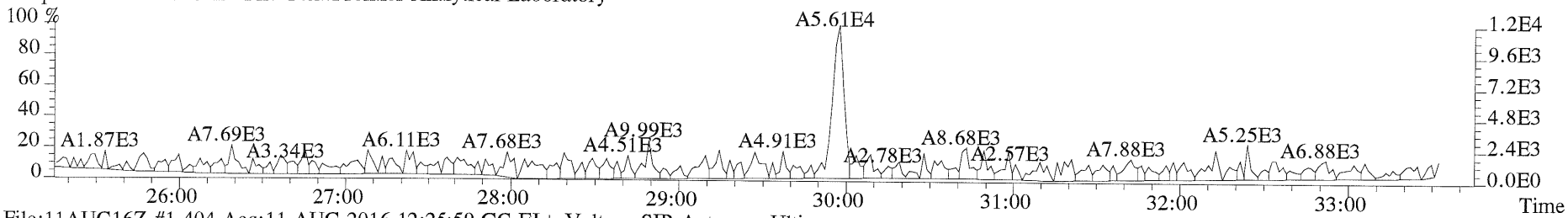
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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



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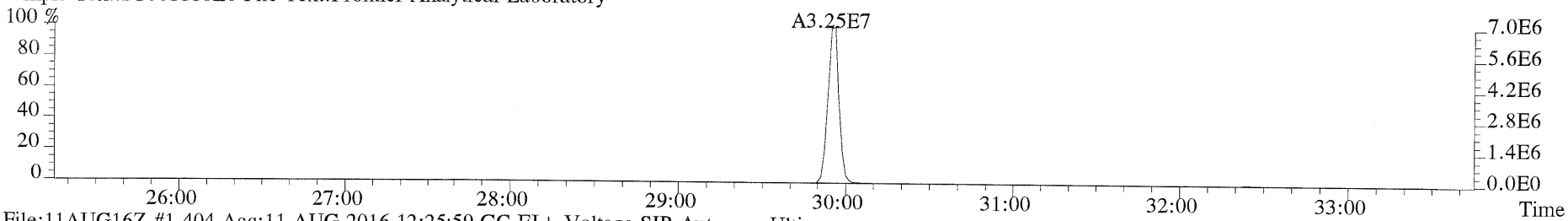
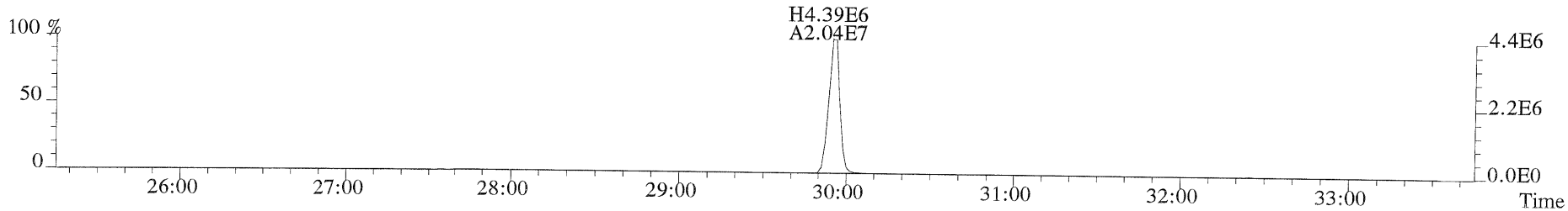
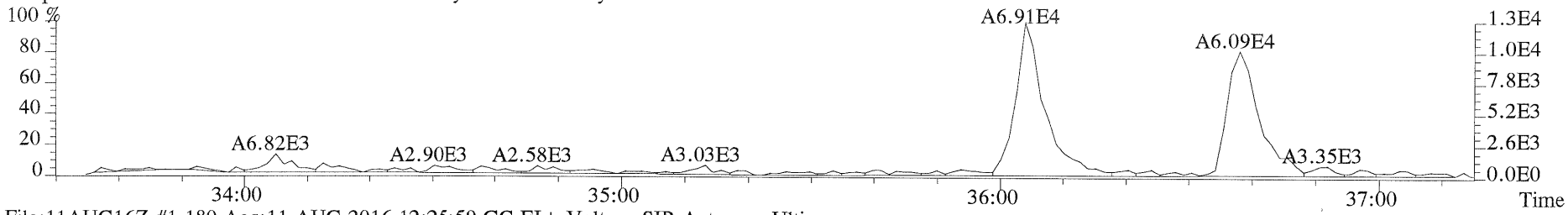
337.9207 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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
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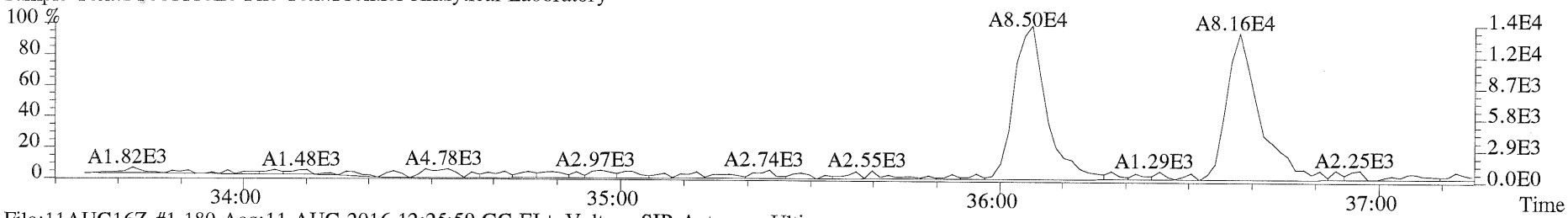
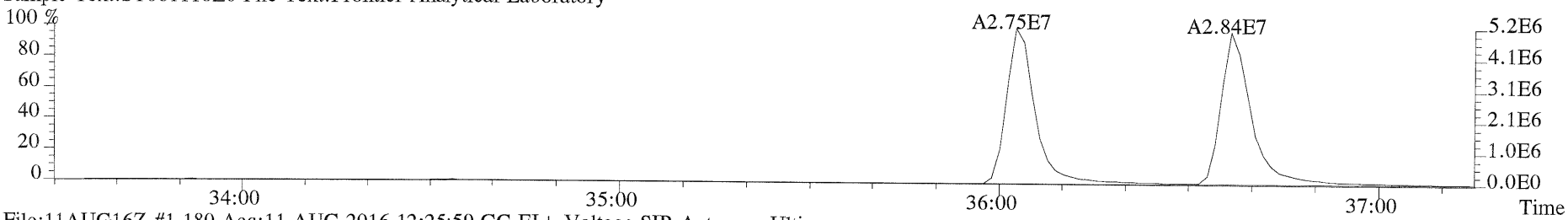
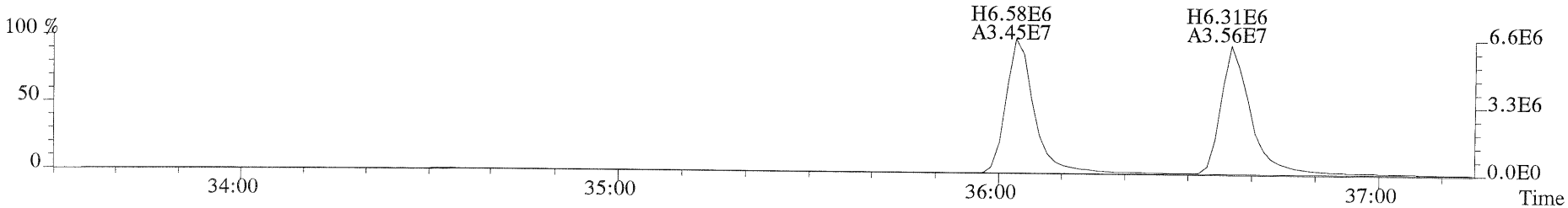
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



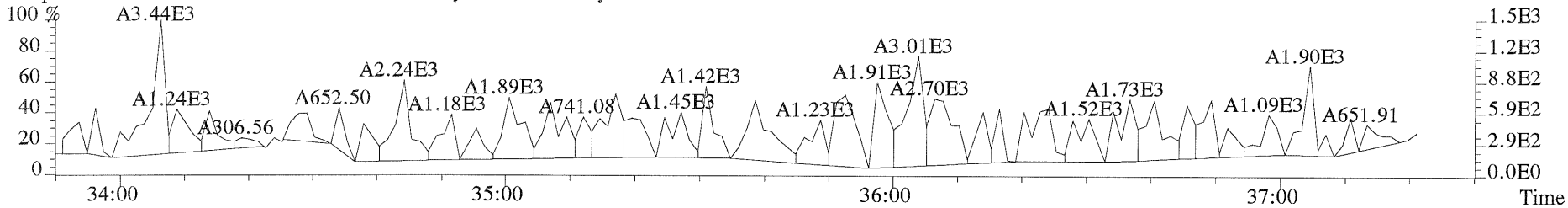
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



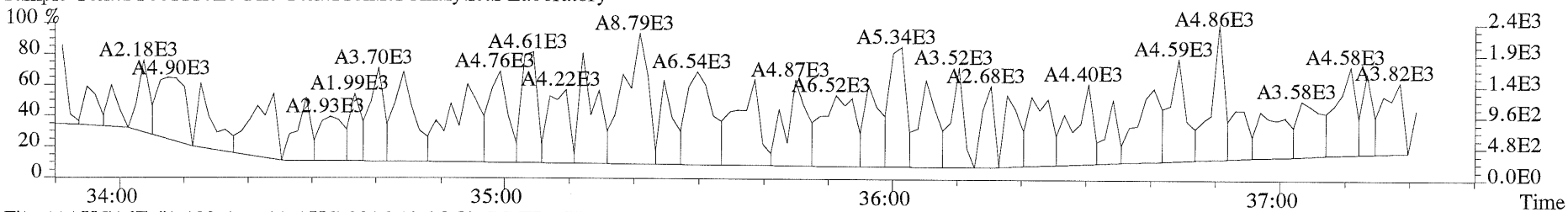
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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



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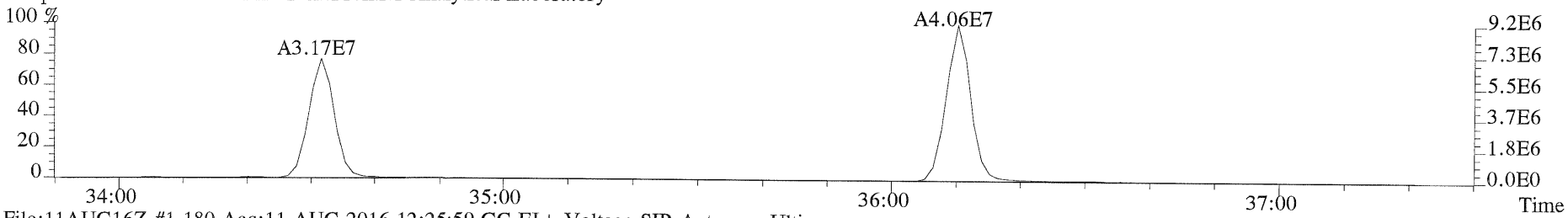
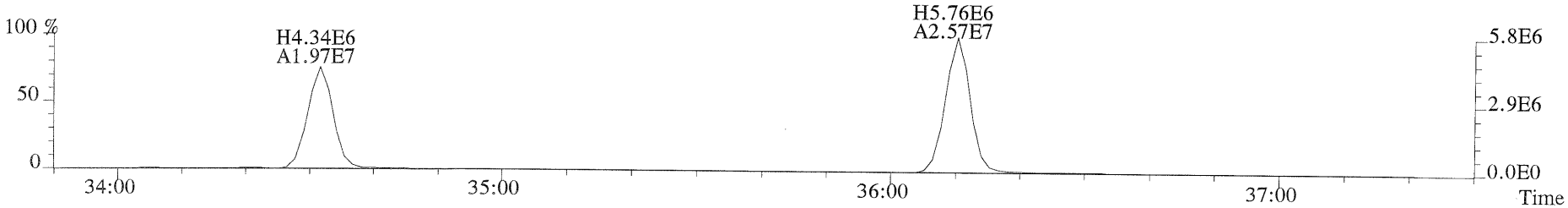
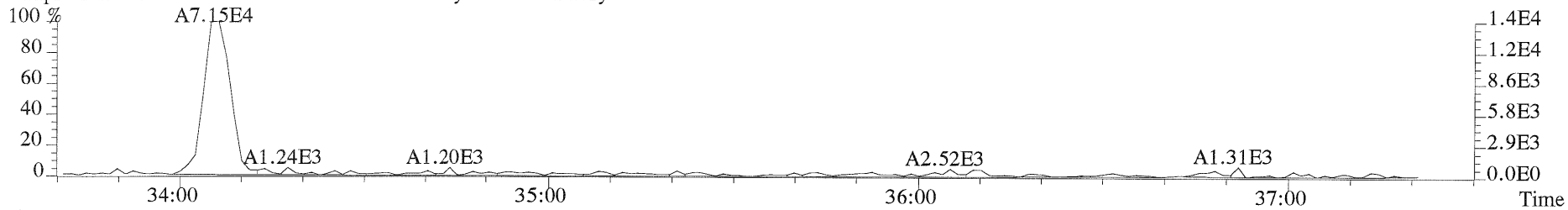
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



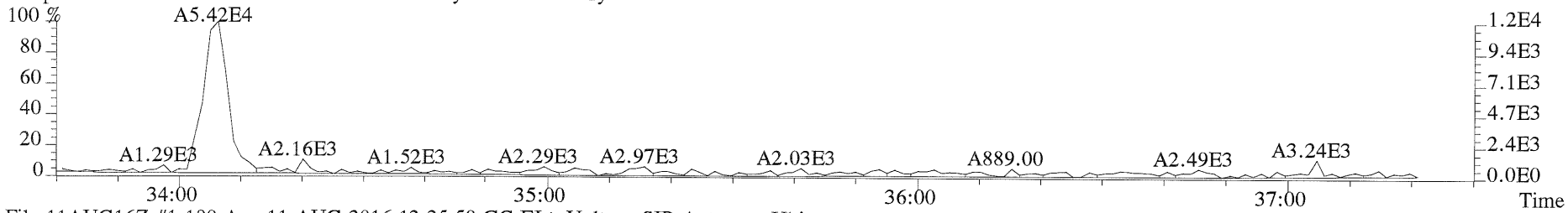
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



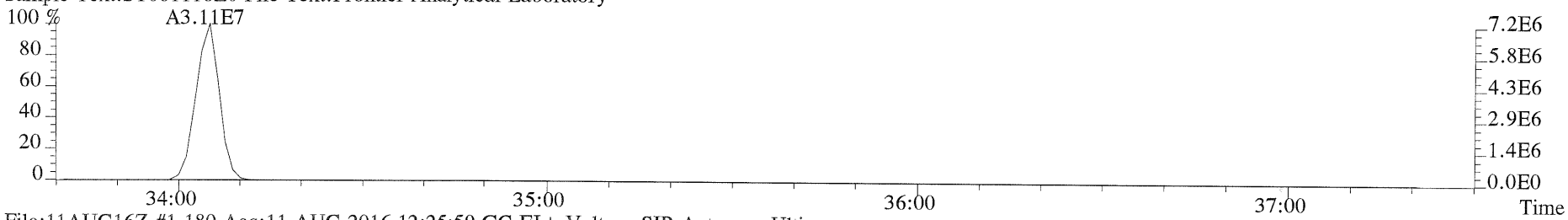
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



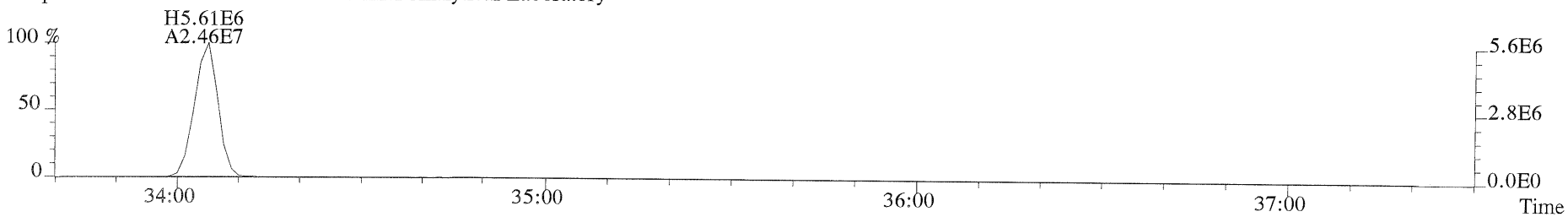
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



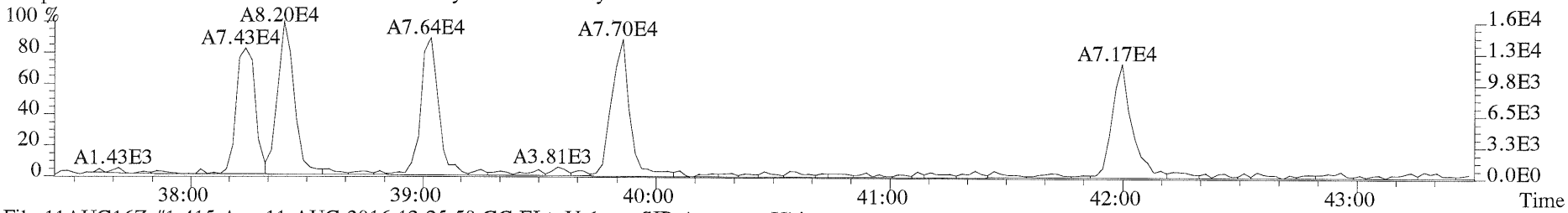
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



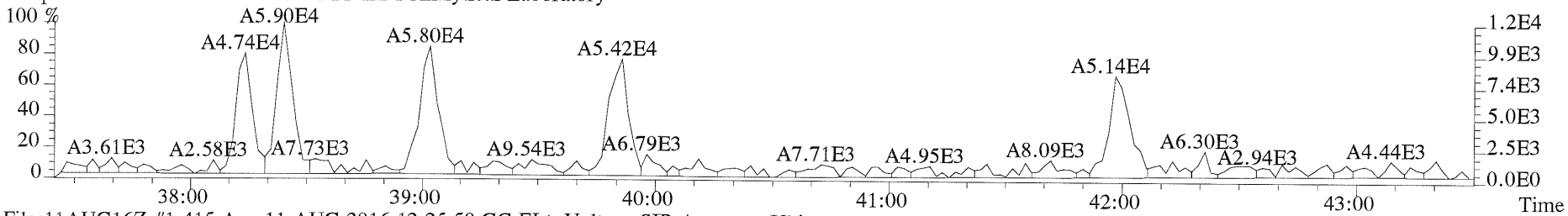
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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



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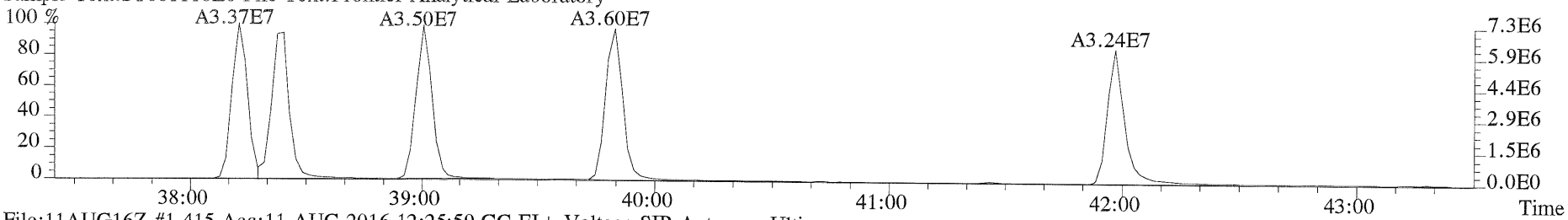
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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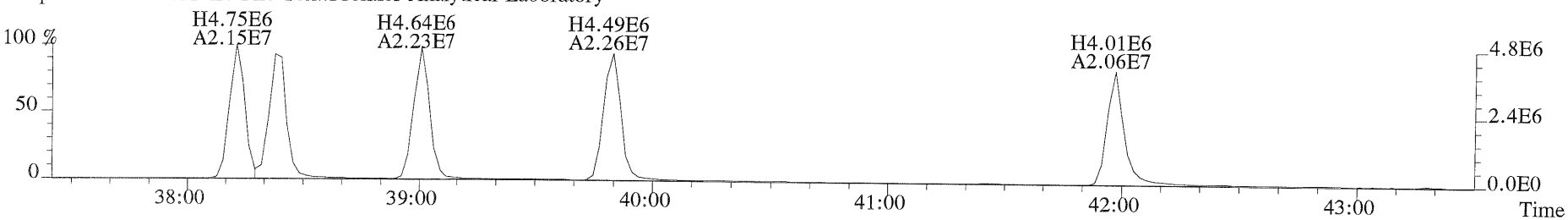
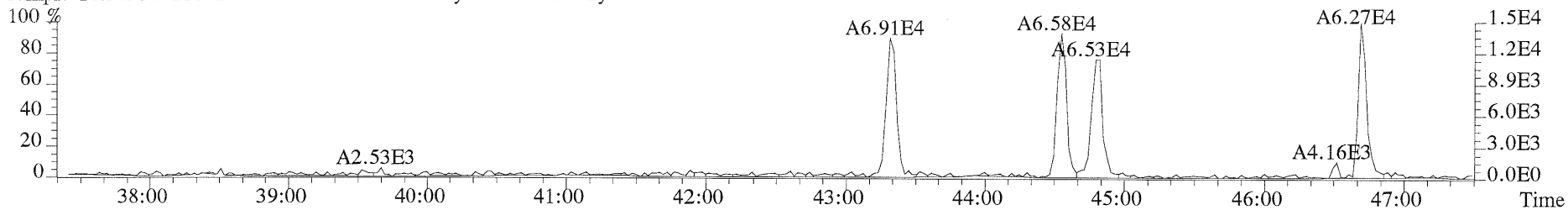
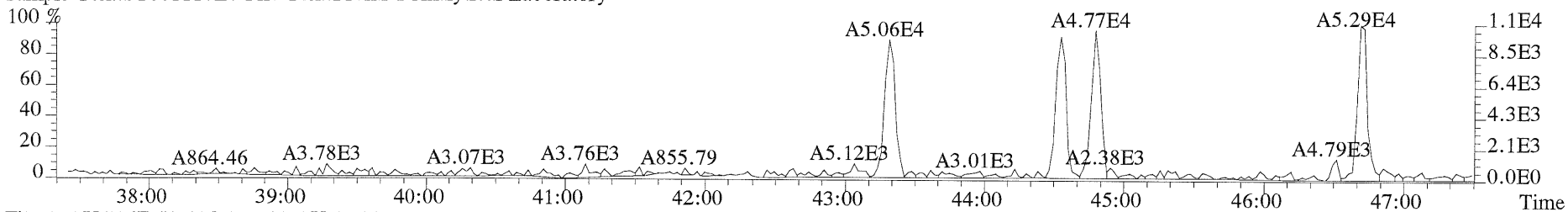
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



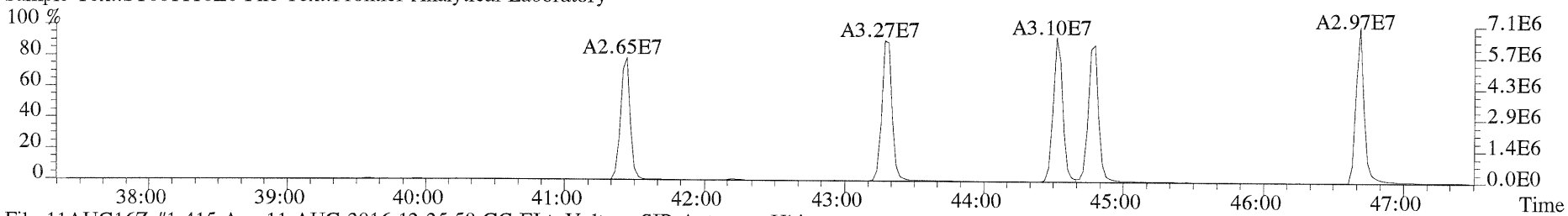
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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
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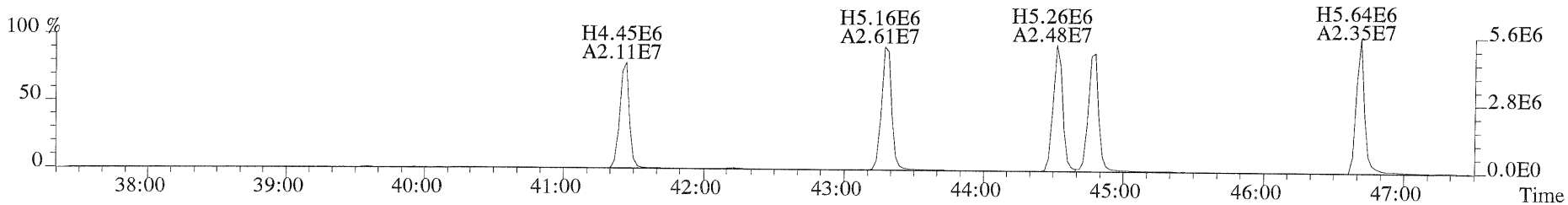
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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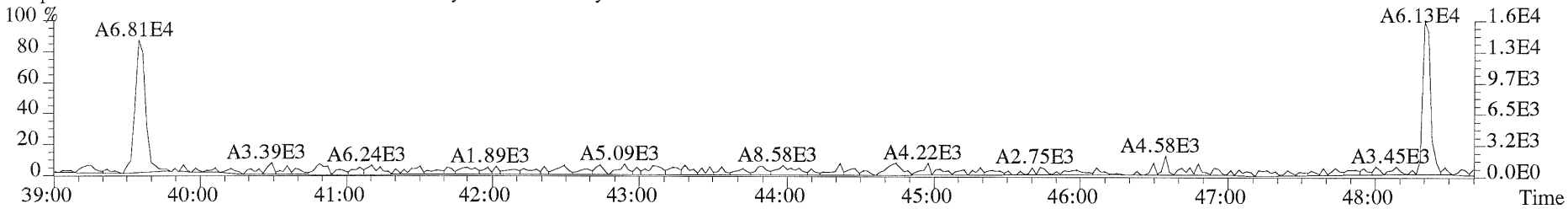
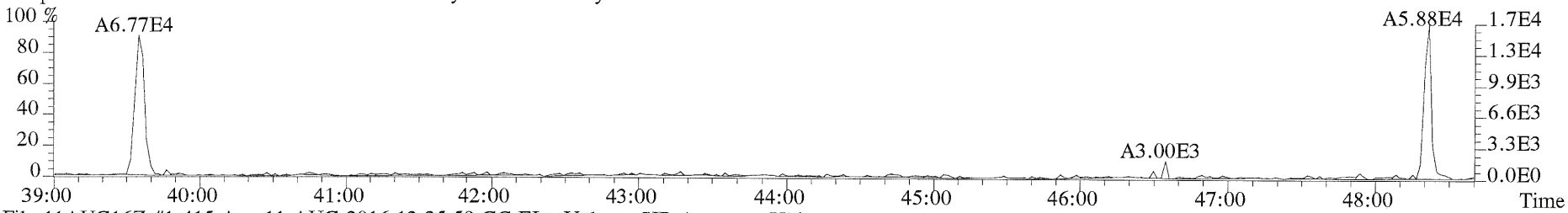
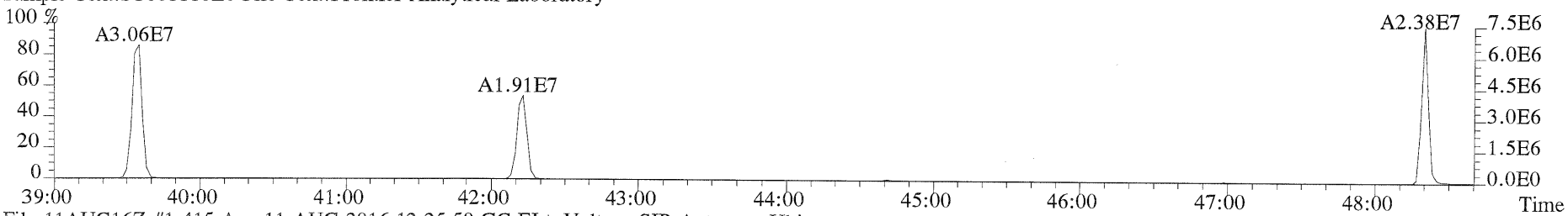
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



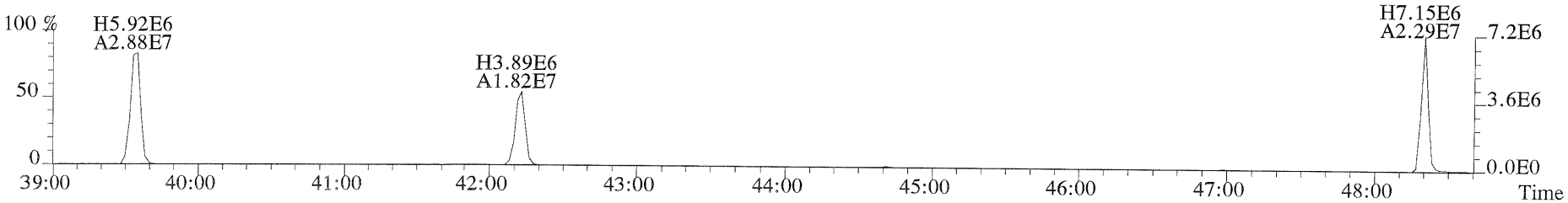
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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
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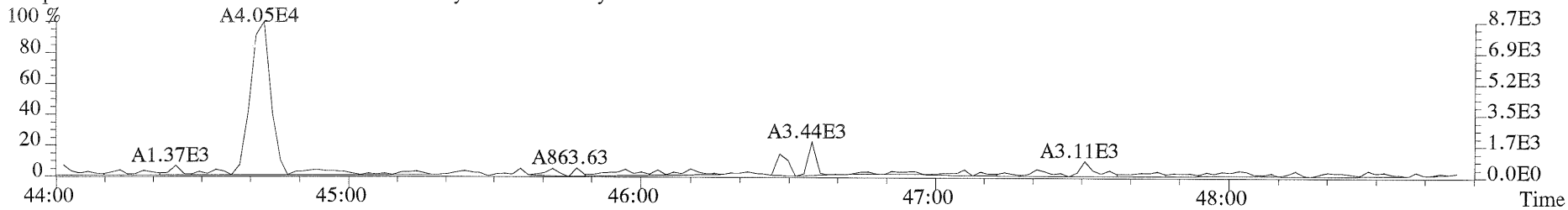
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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
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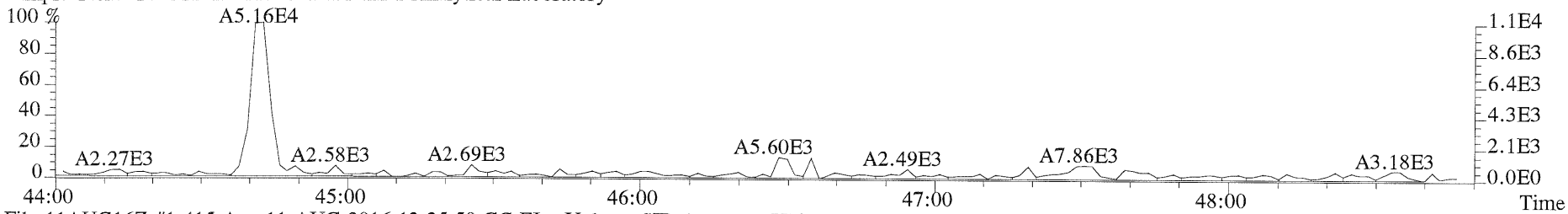
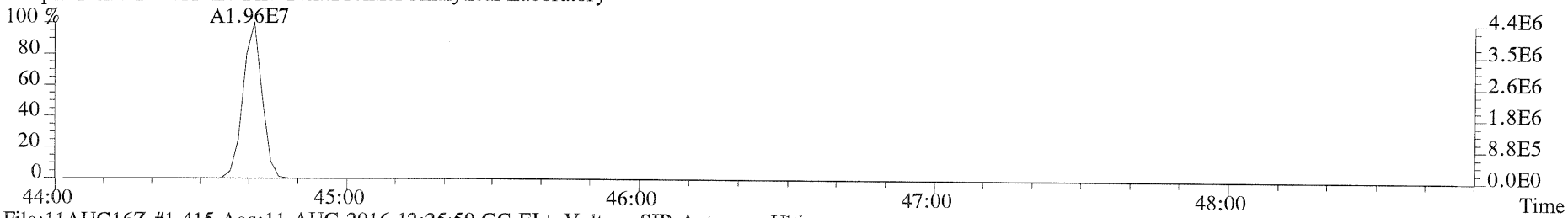
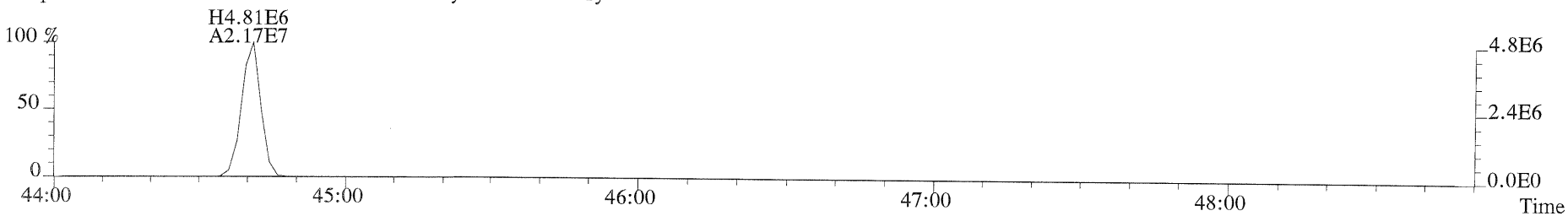


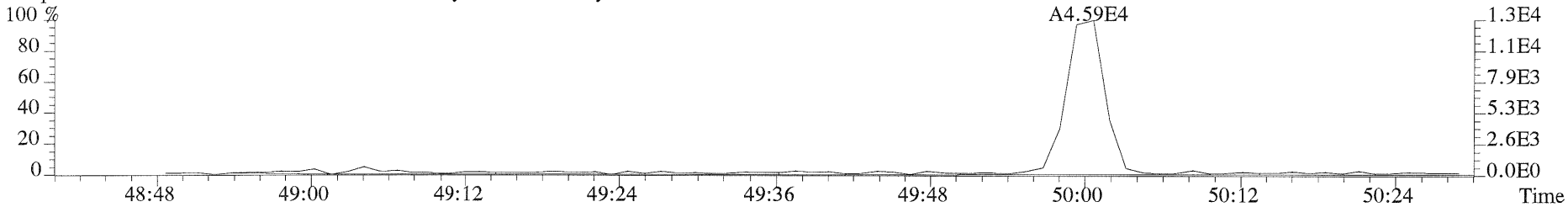
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



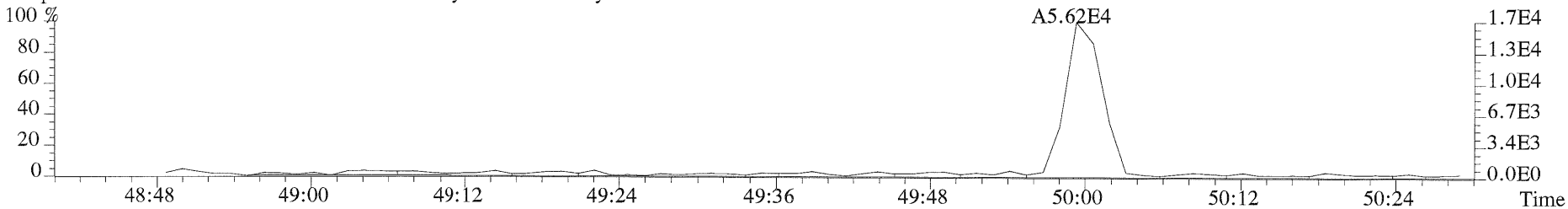
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



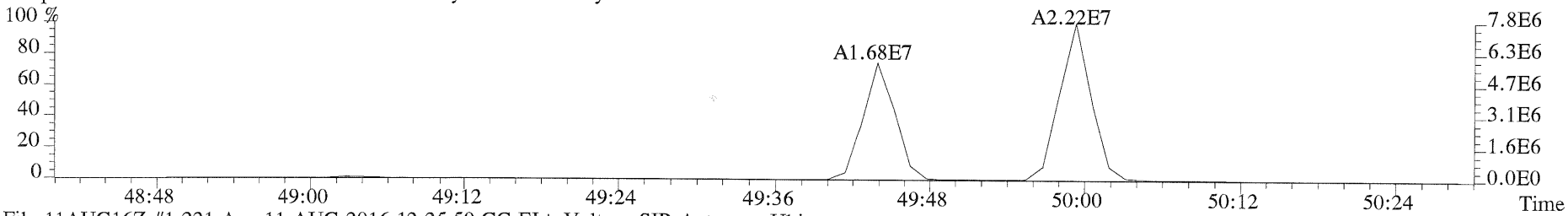
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



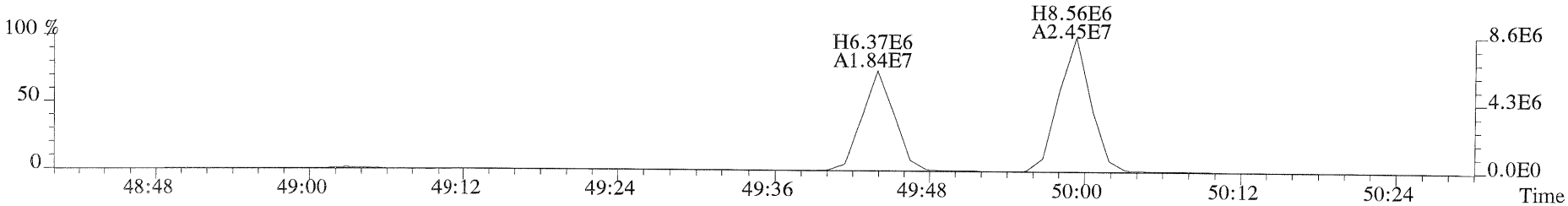
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



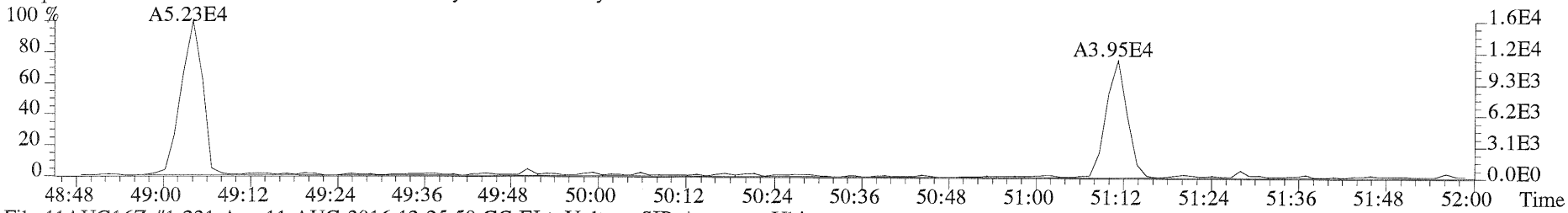
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



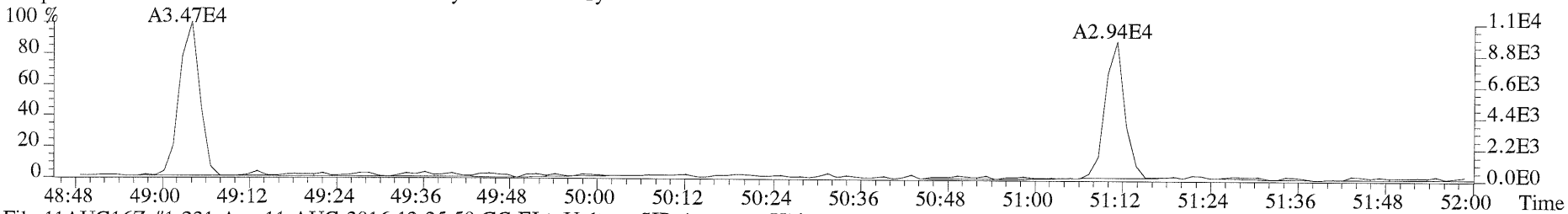
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



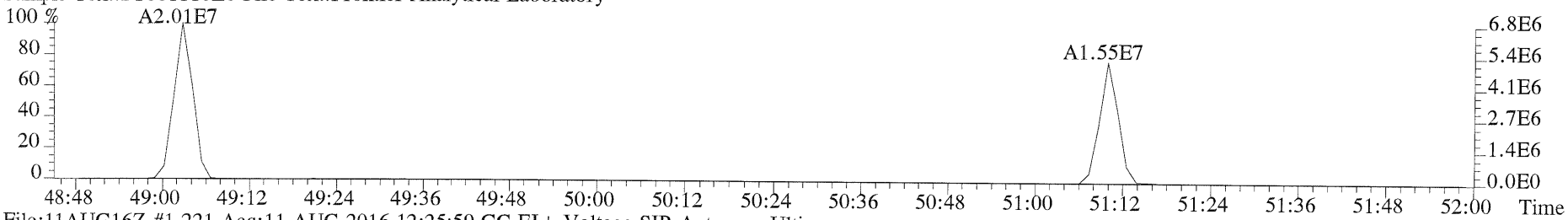
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



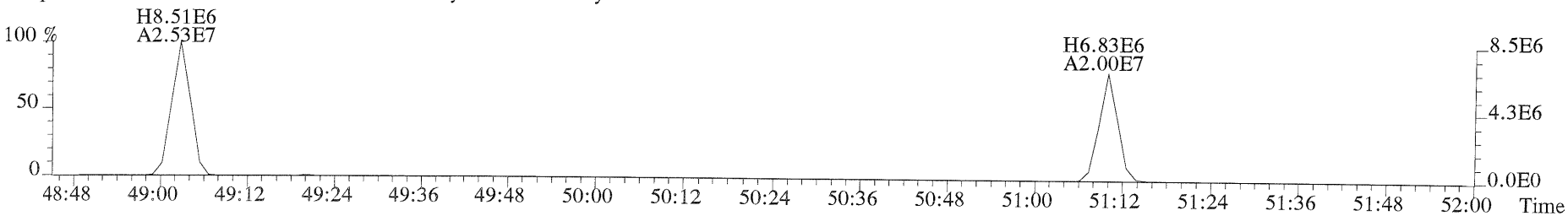
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



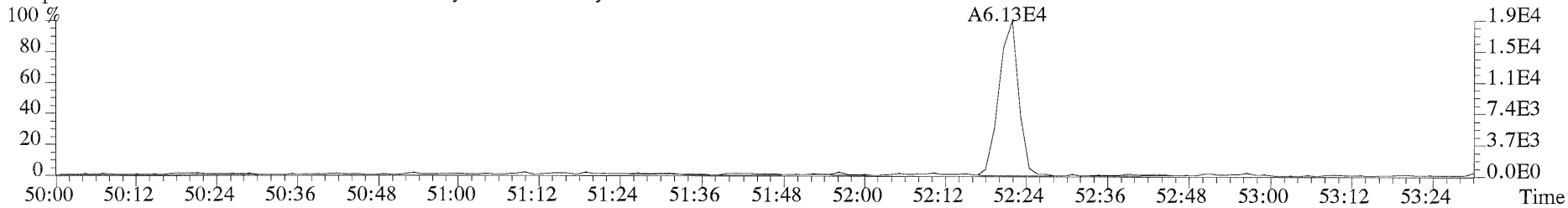
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



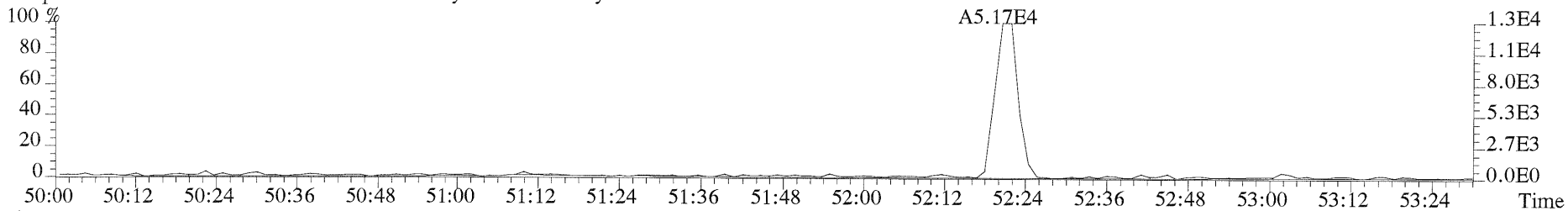
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



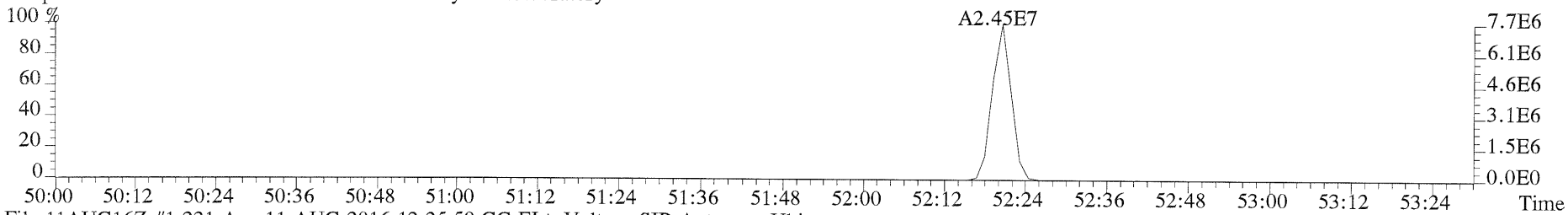
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



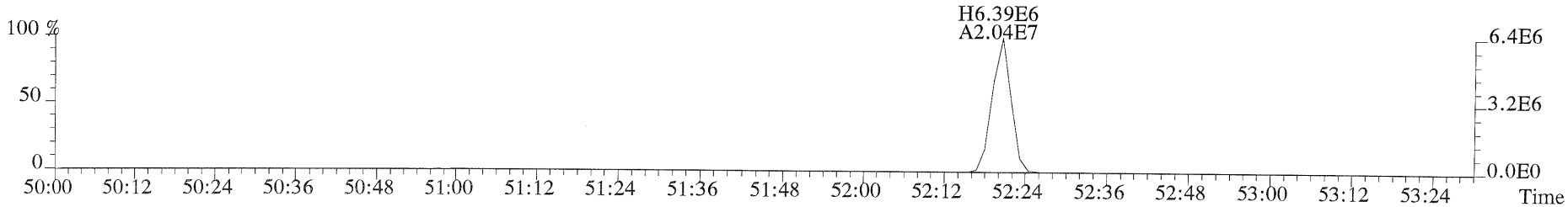
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



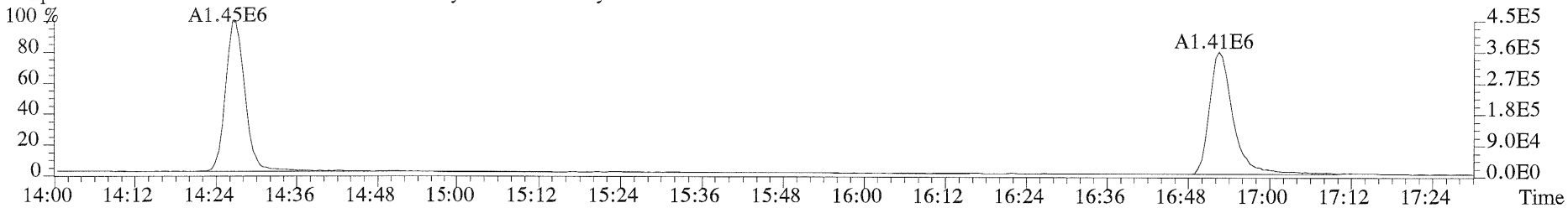
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



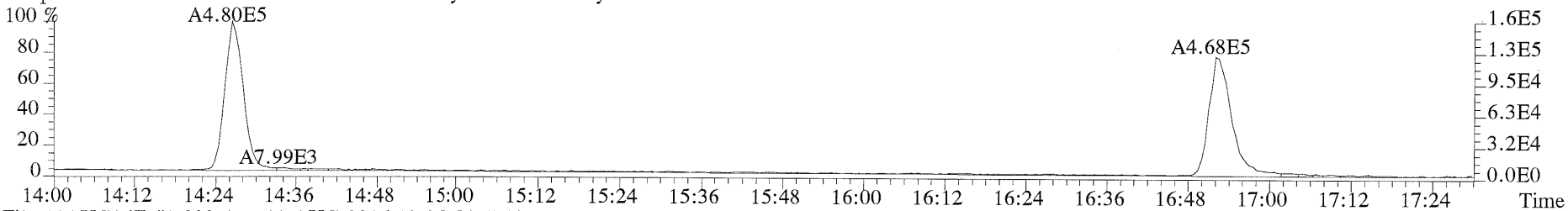
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



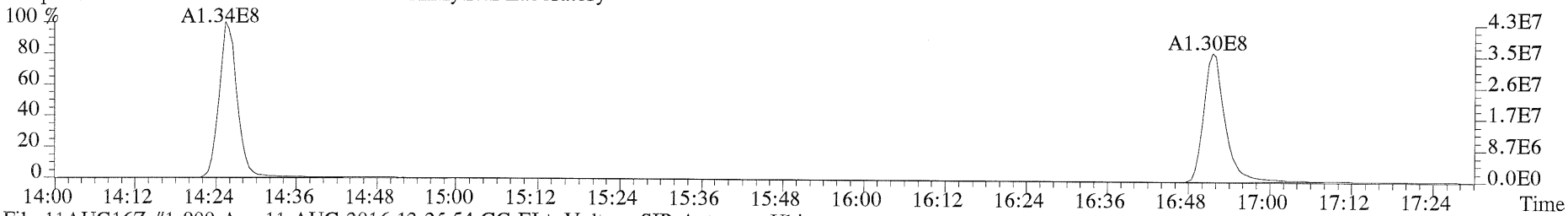
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



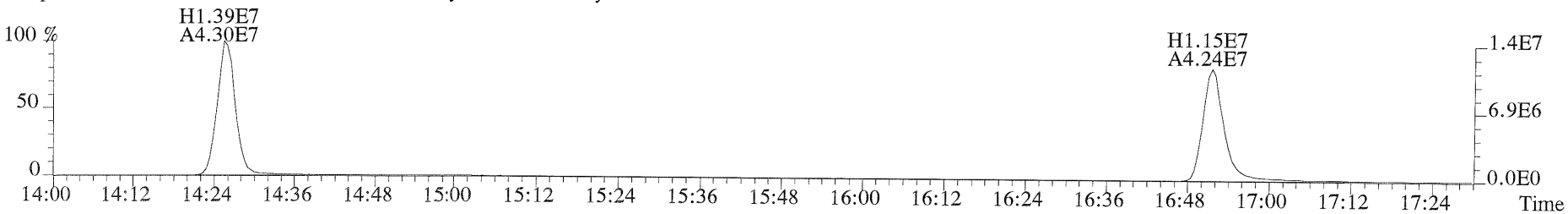
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



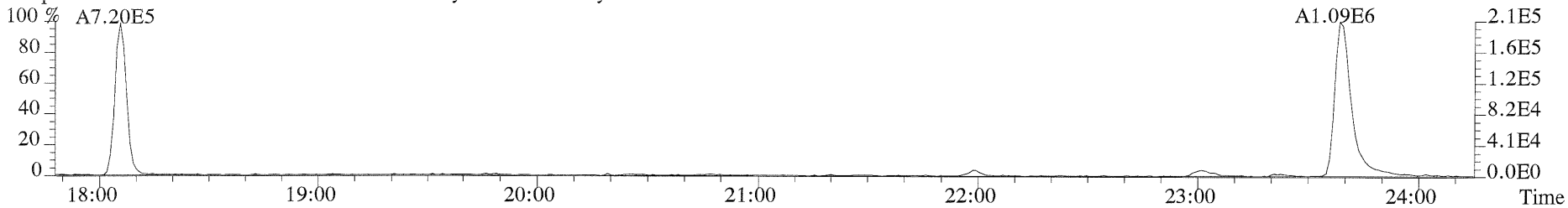
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



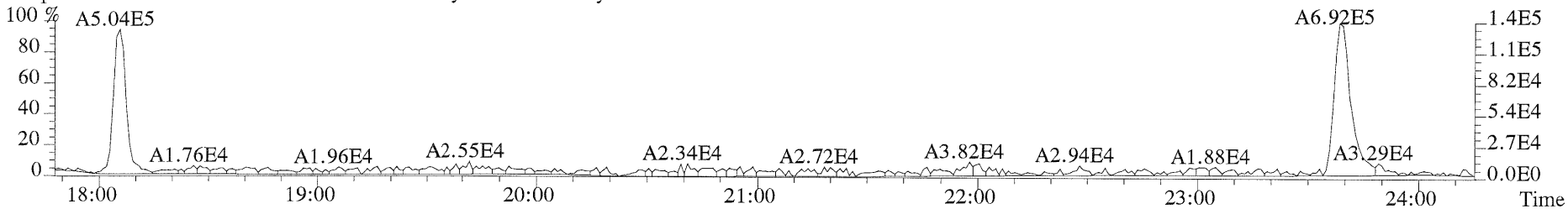
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



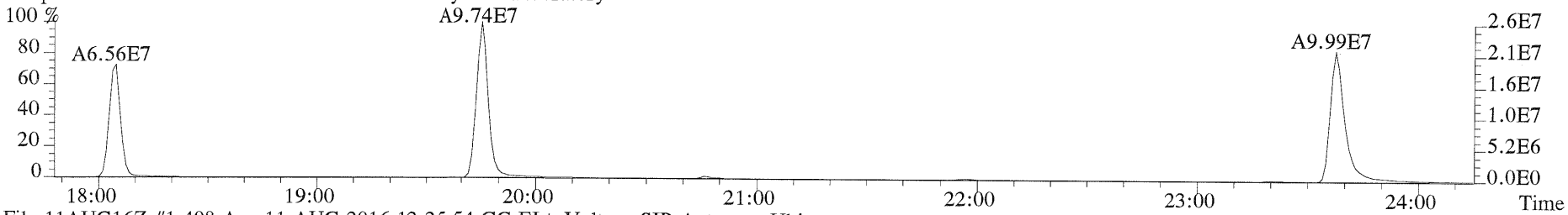
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



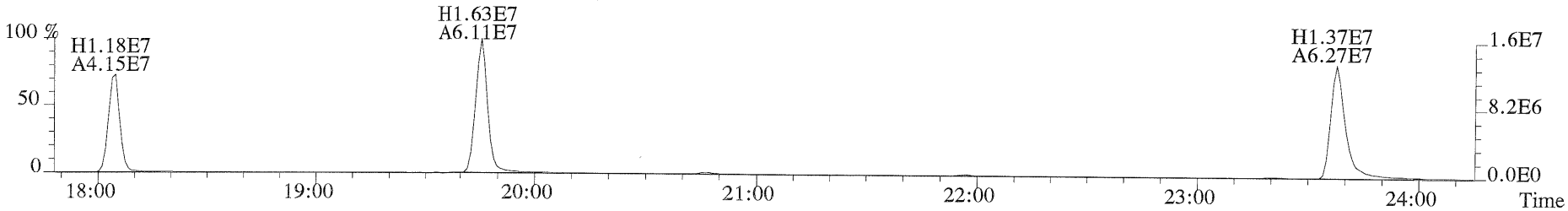
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



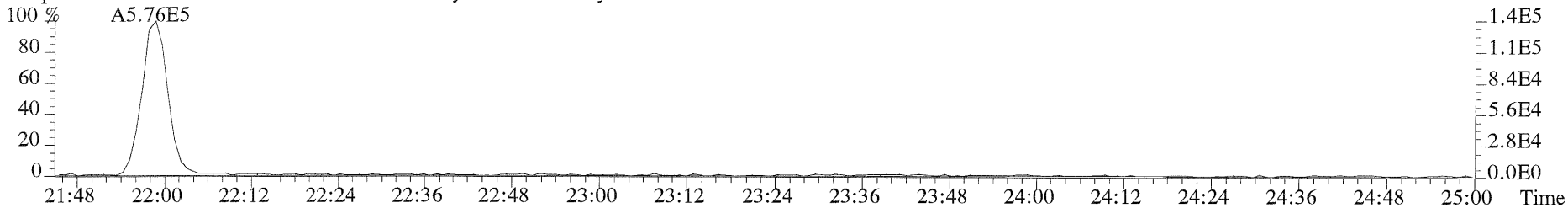
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



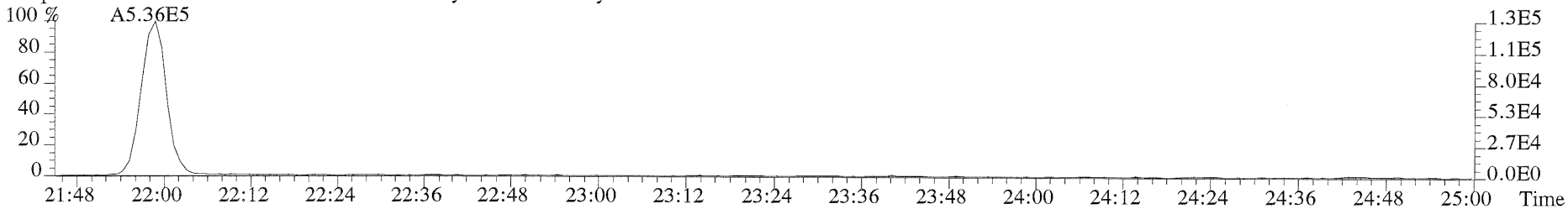
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



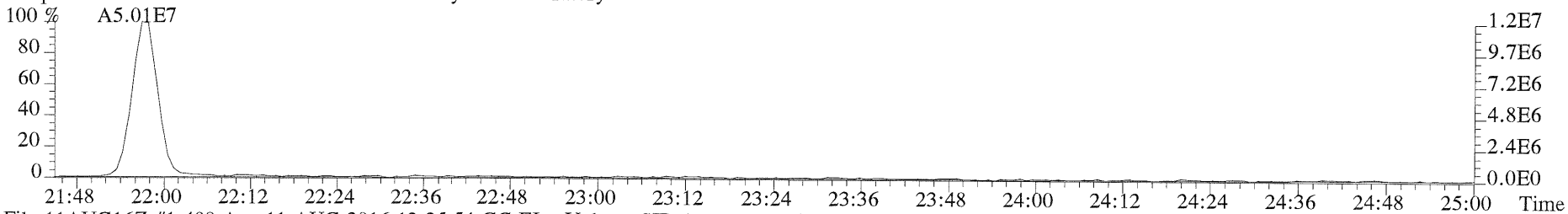
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



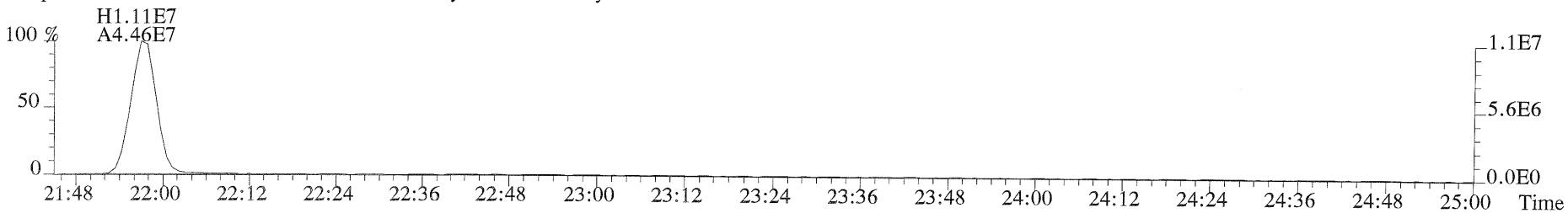
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



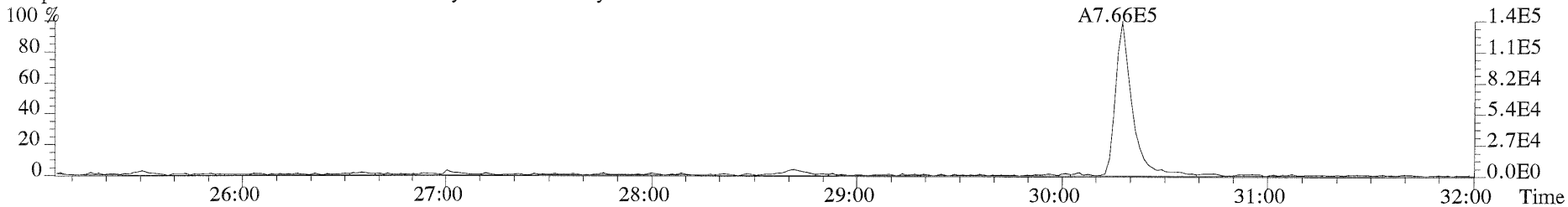
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



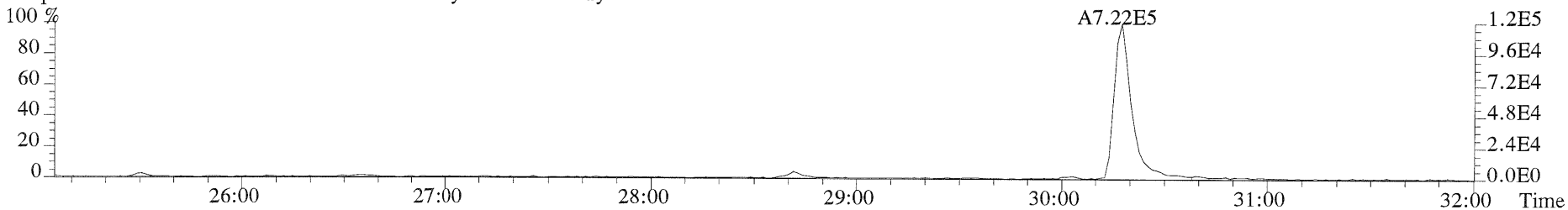
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



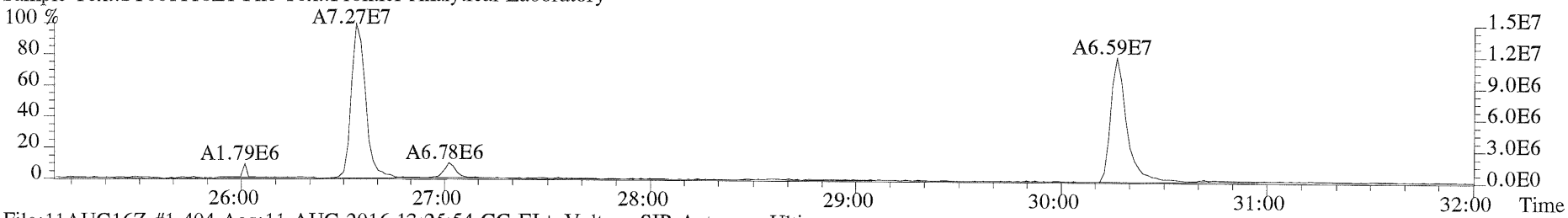
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



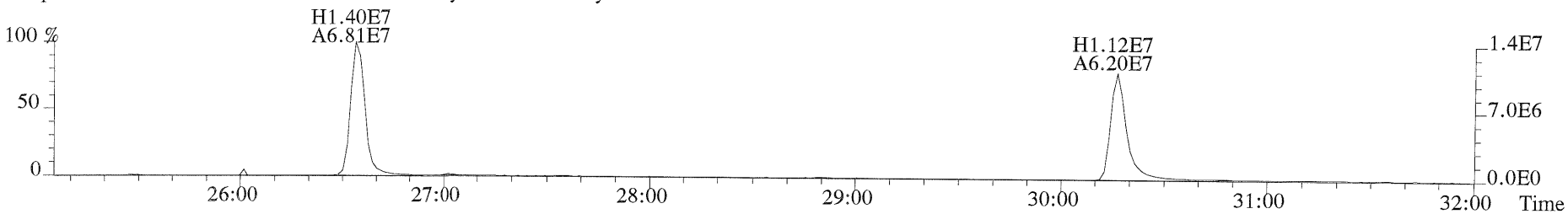
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



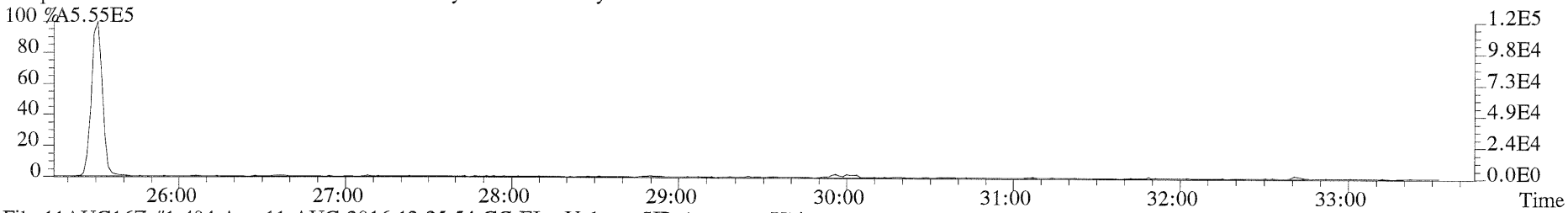
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



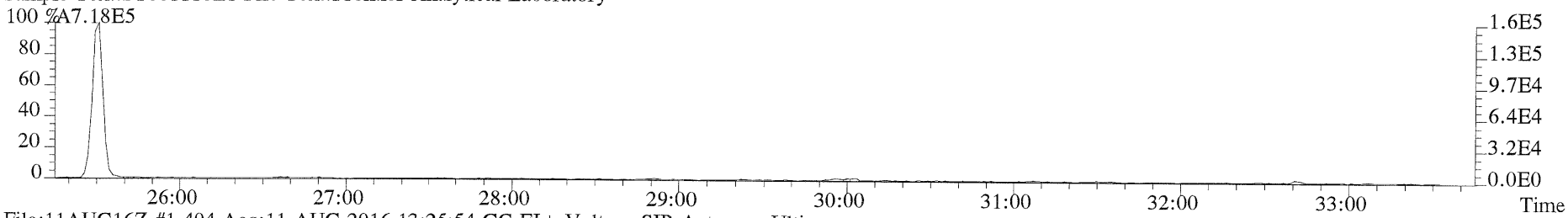
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



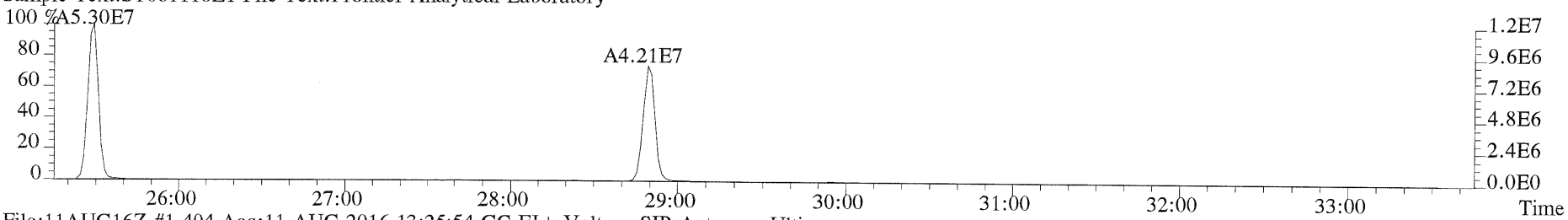
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



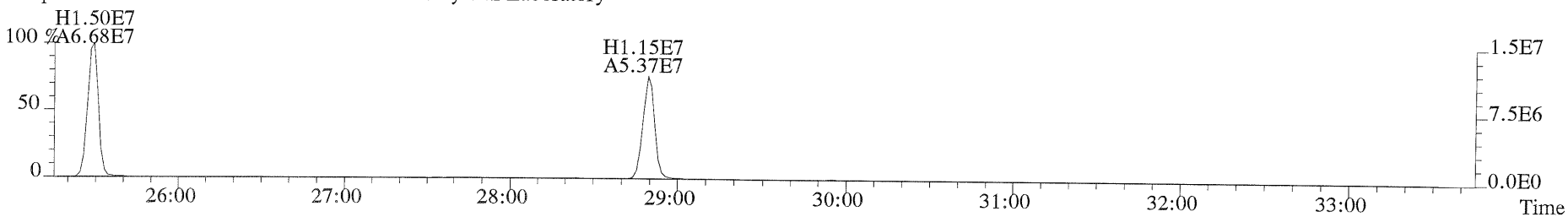
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



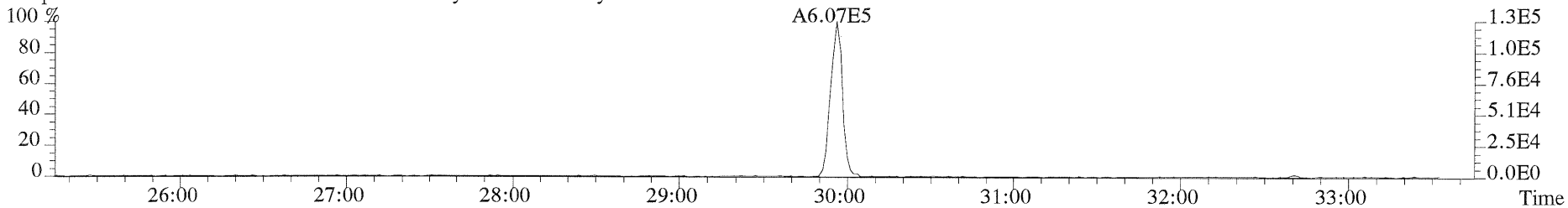
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



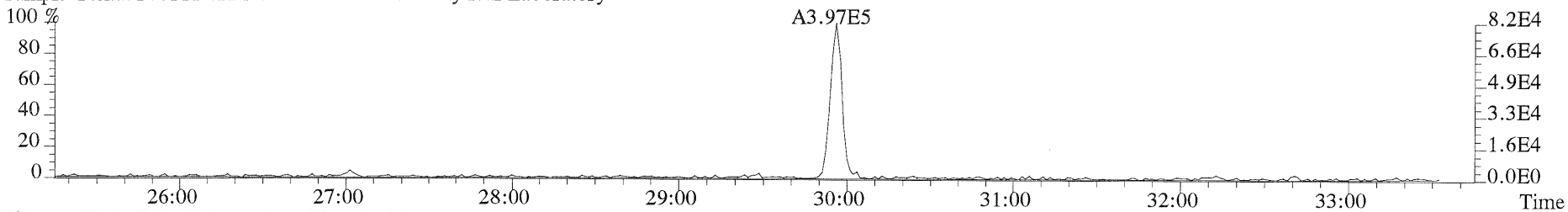
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



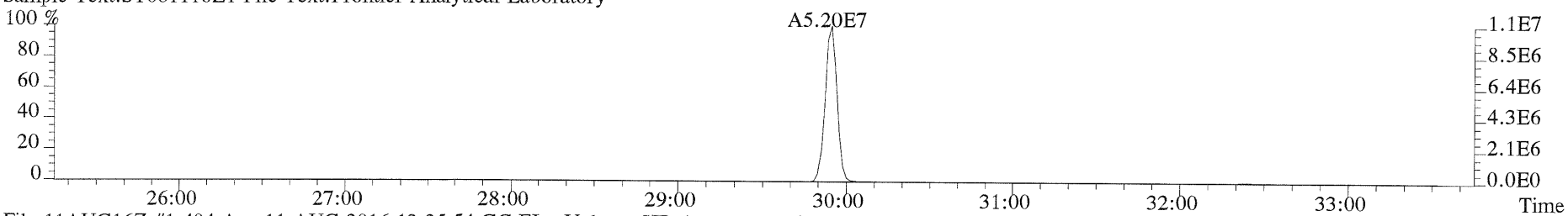
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



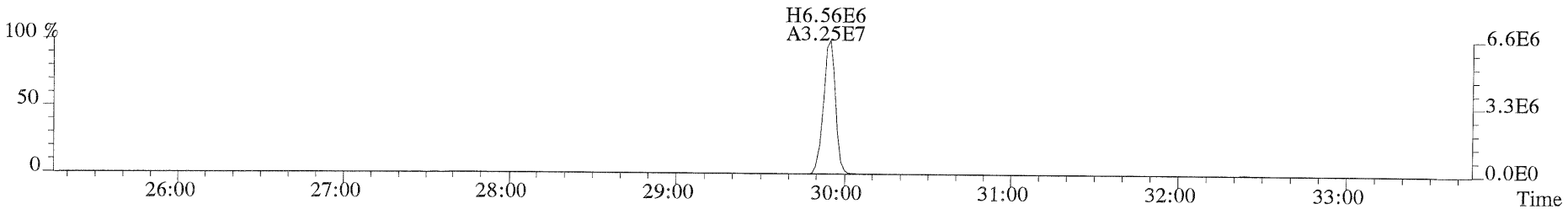
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



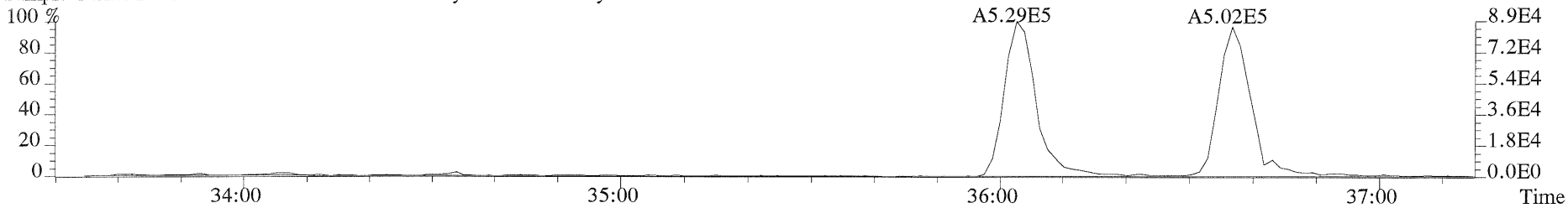
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



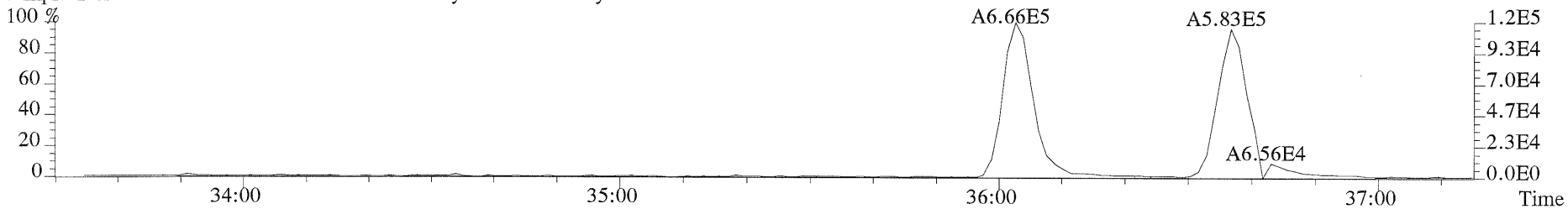
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



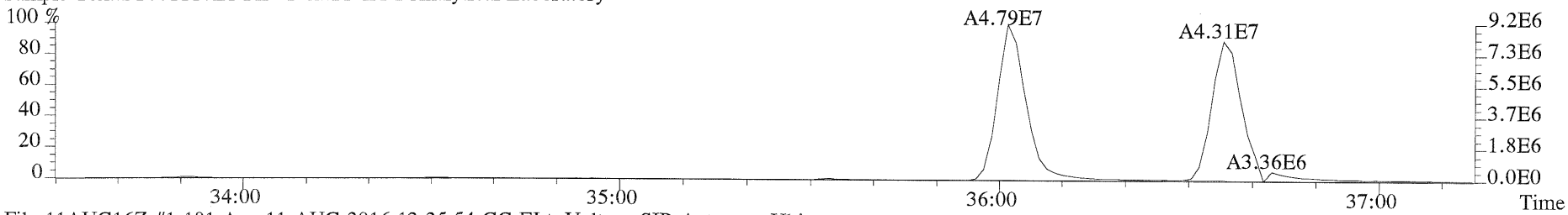
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



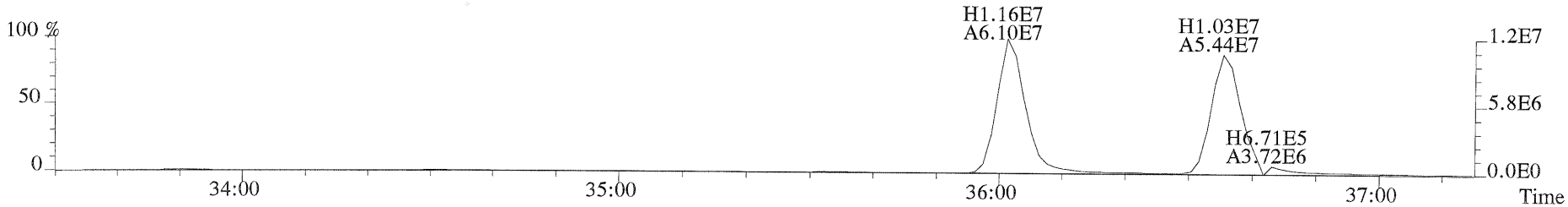
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



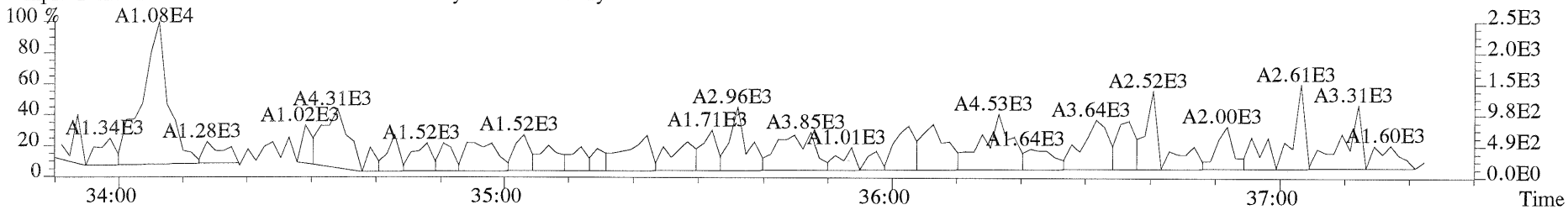
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



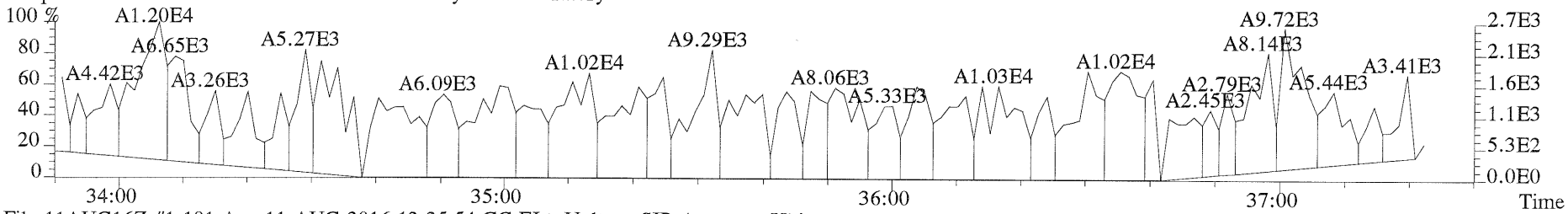
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



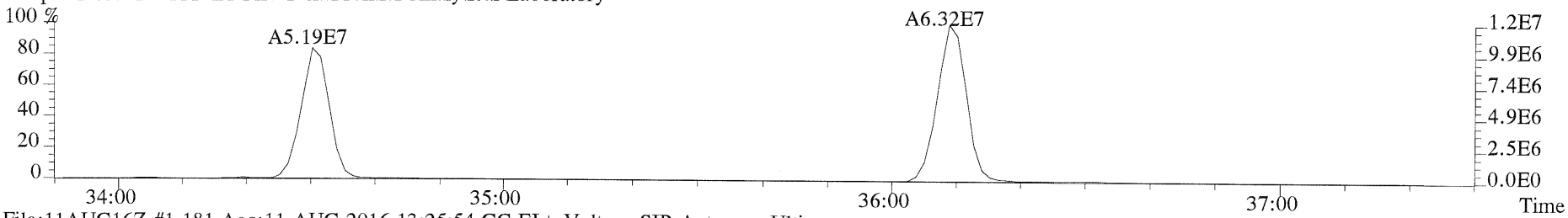
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



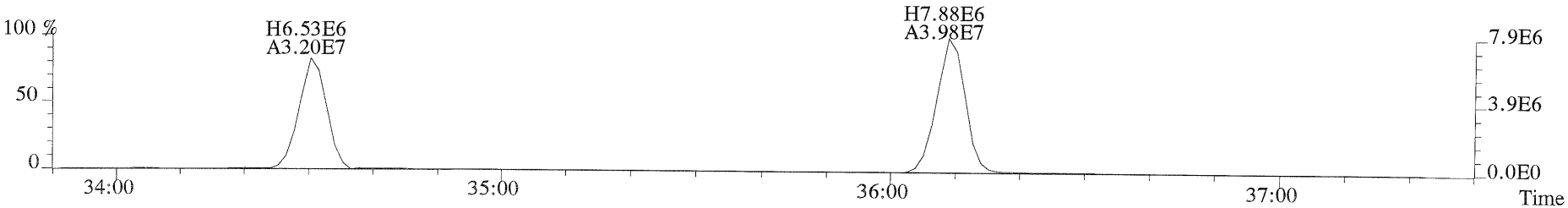
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



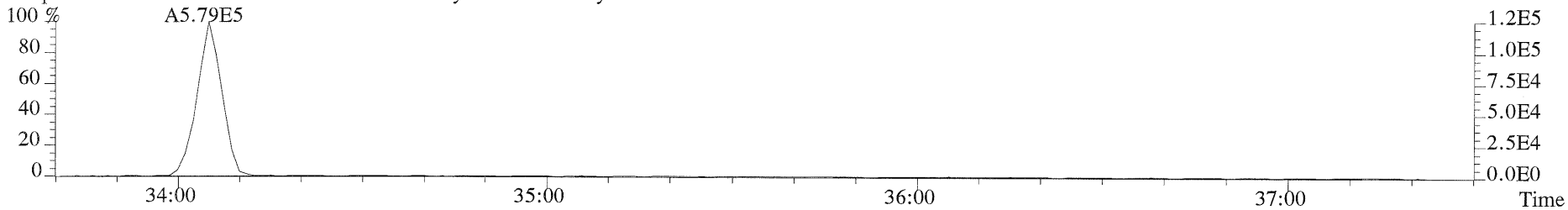
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



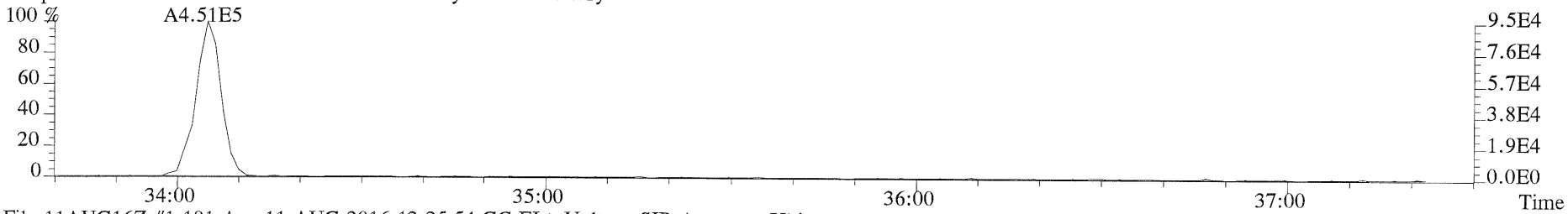
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



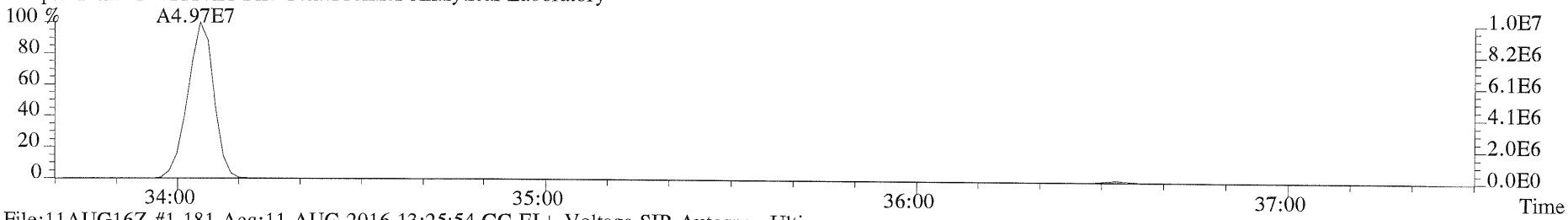
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



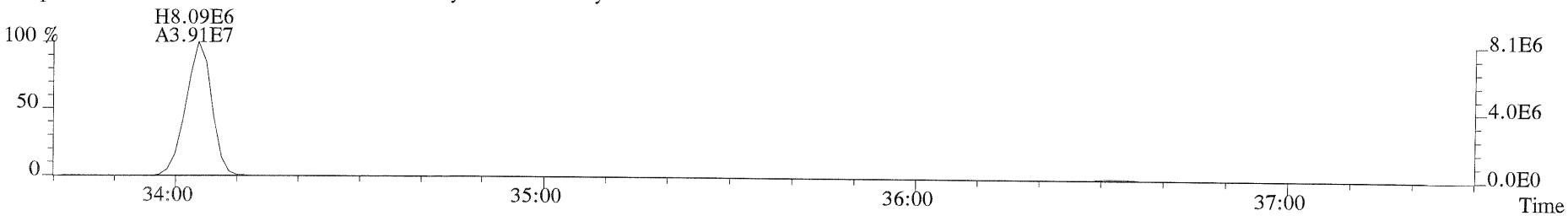
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



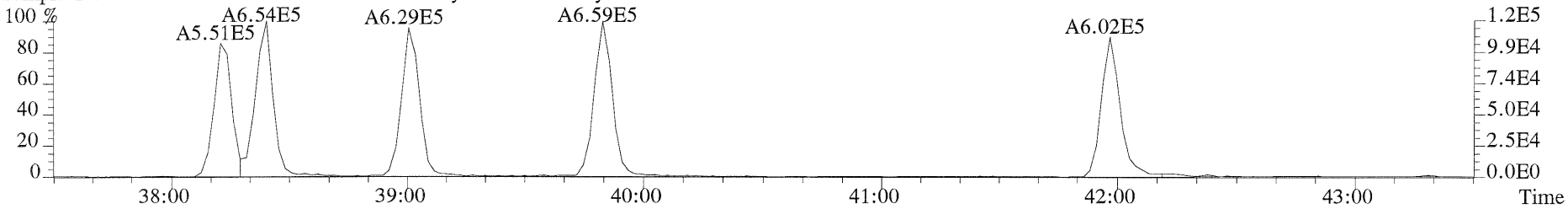
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



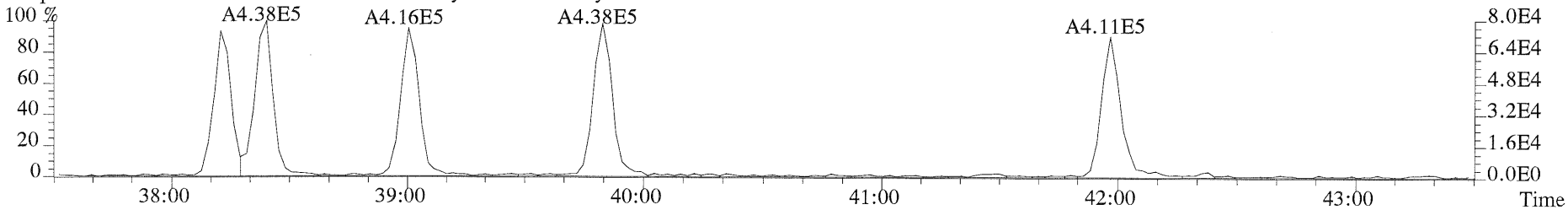
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



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



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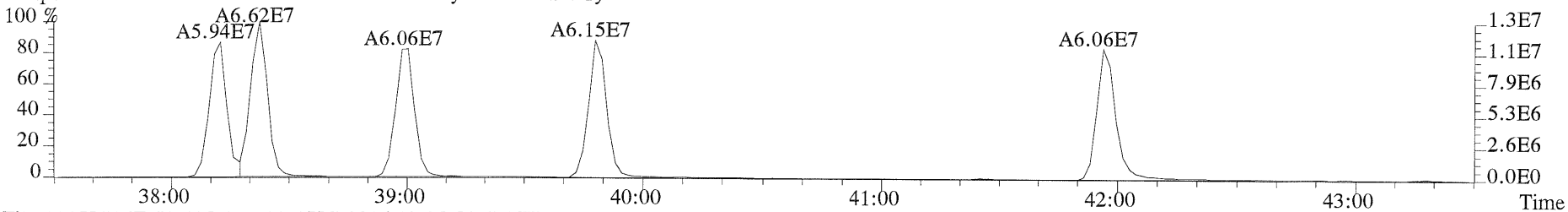
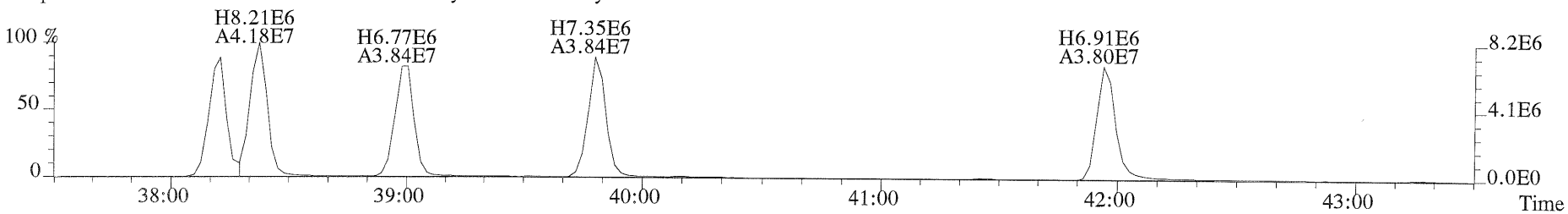
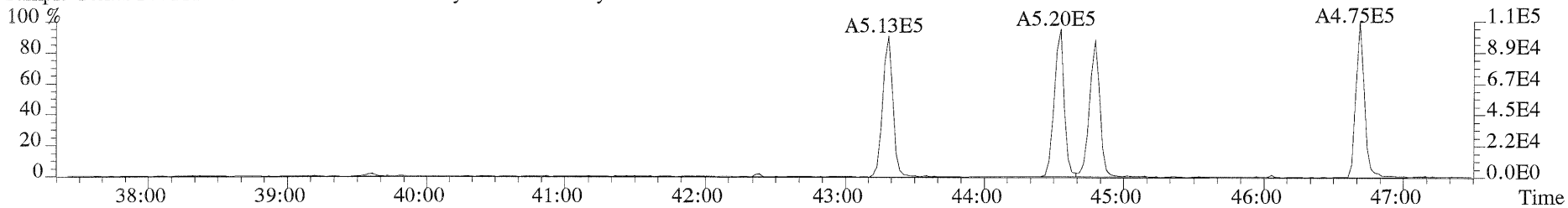
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



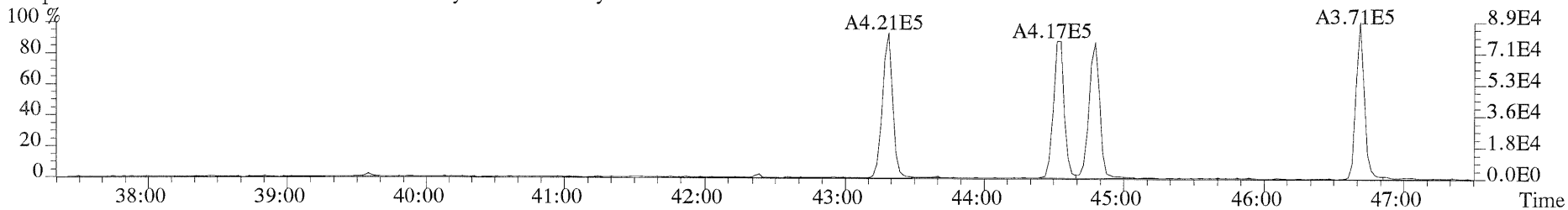
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



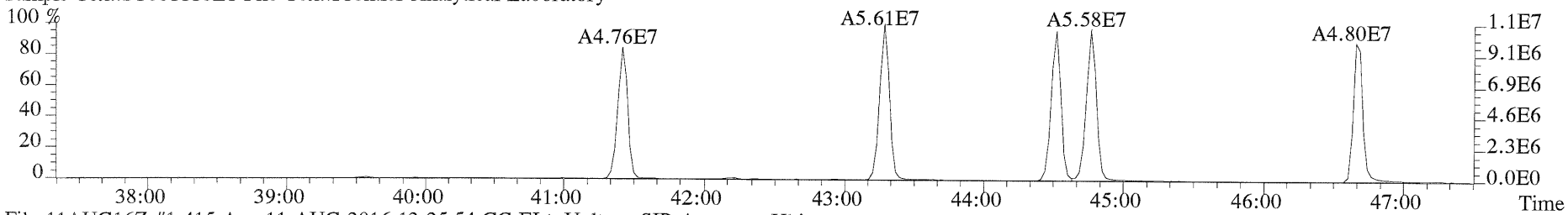
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



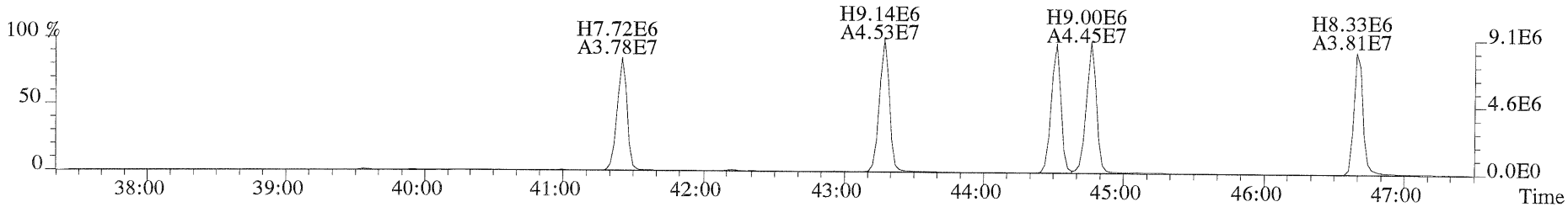
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



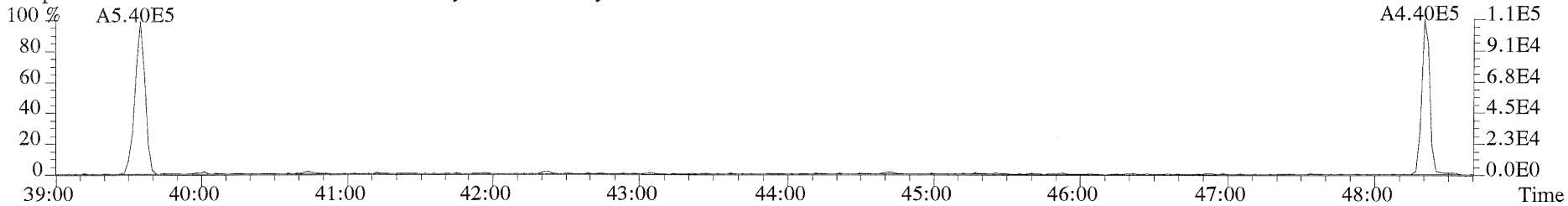
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



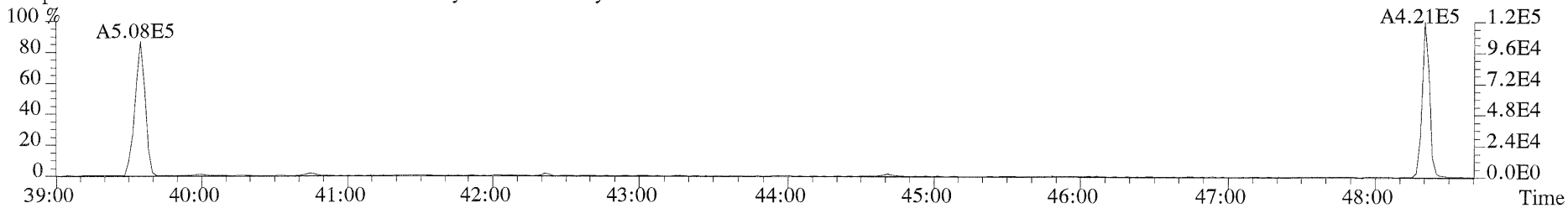
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



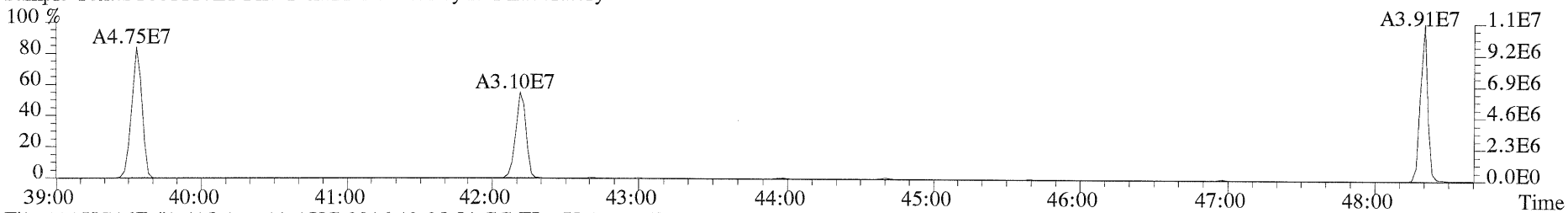
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



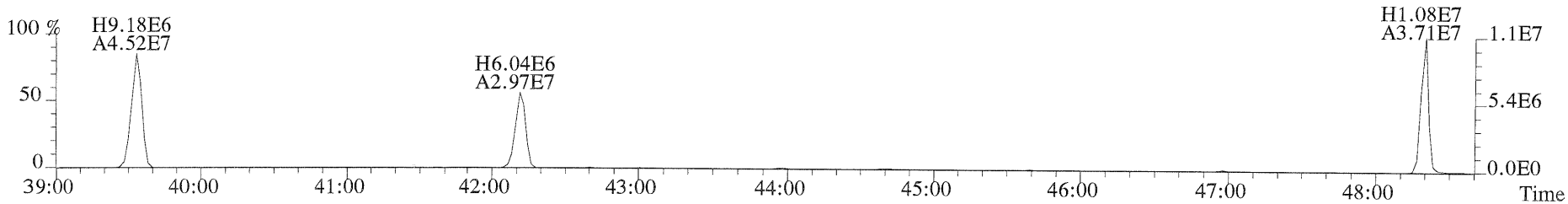
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



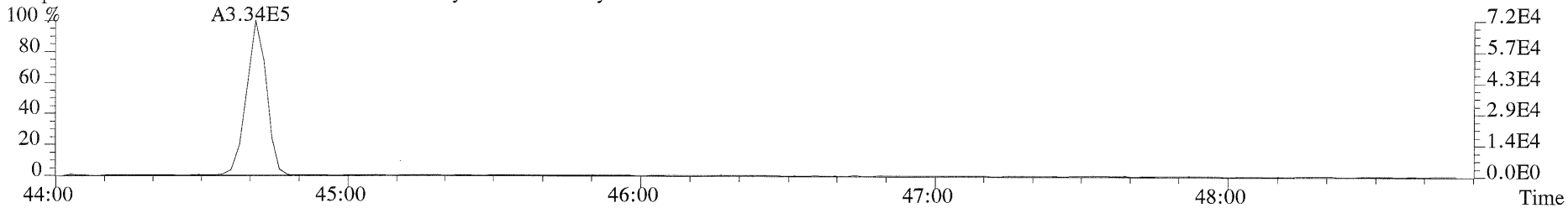
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



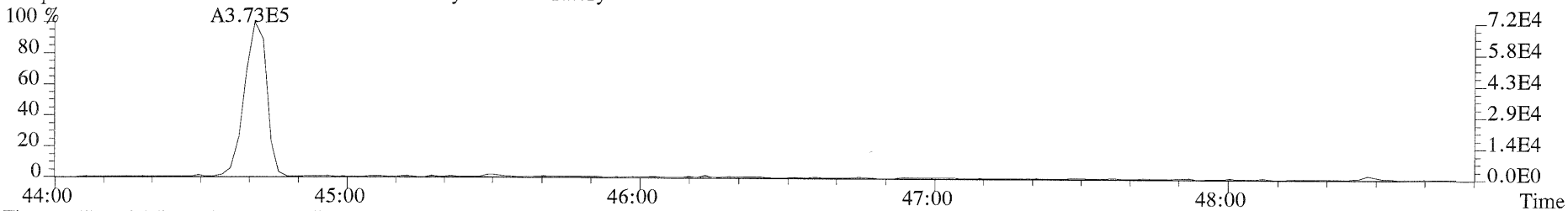
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



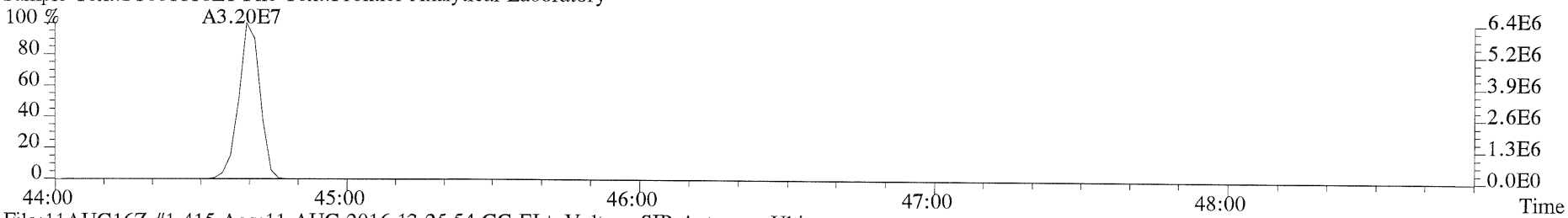
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



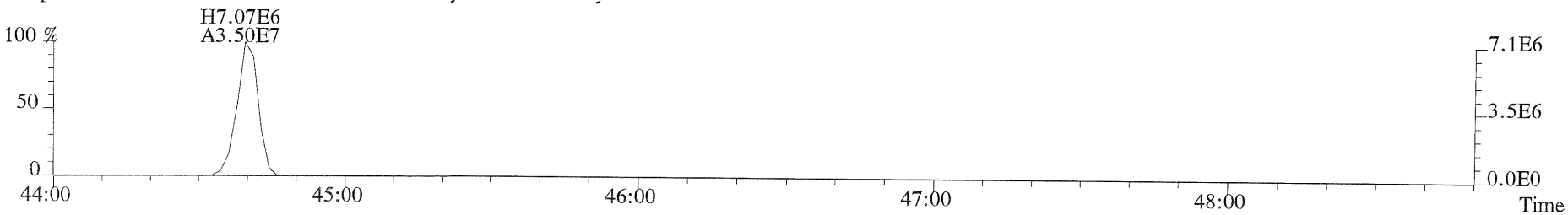
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



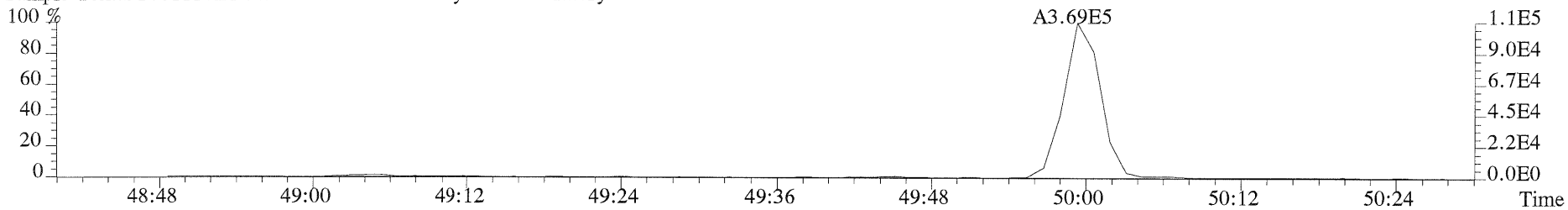
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



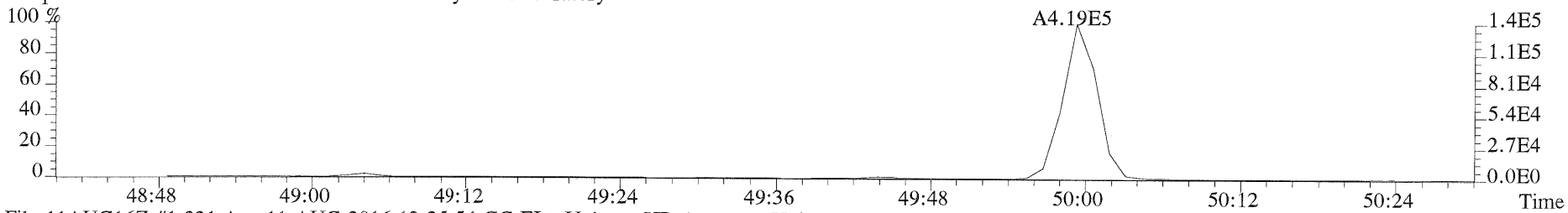
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



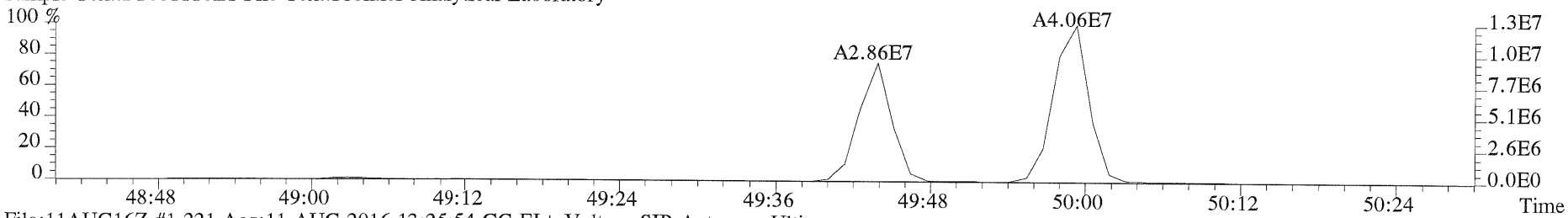
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



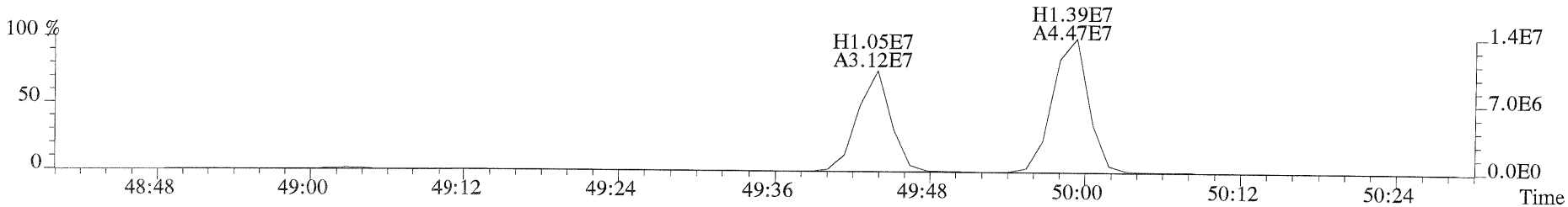
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



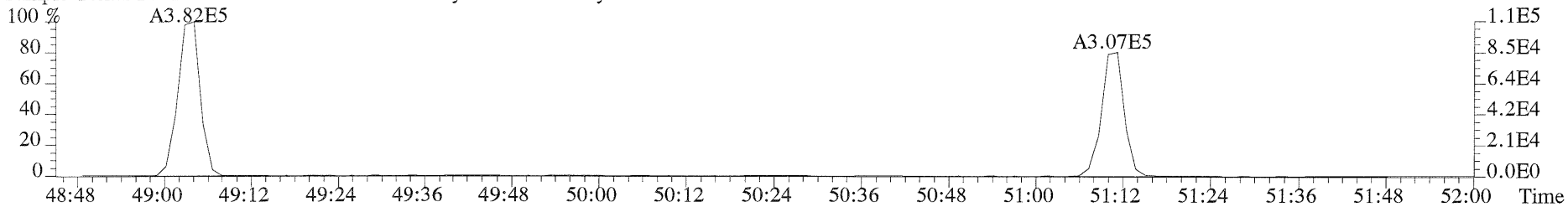
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



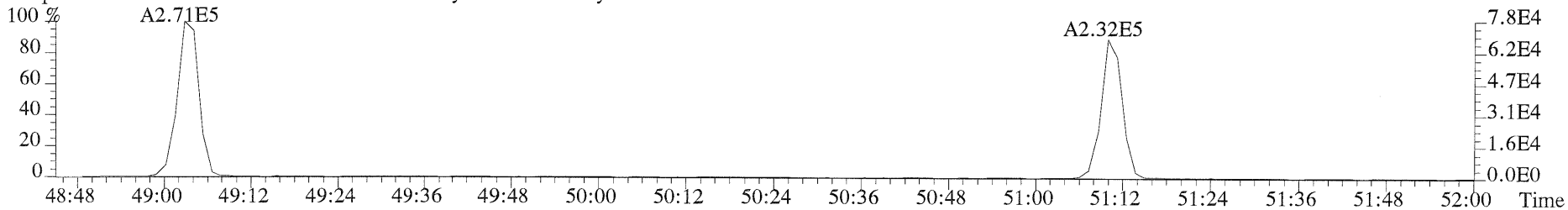
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



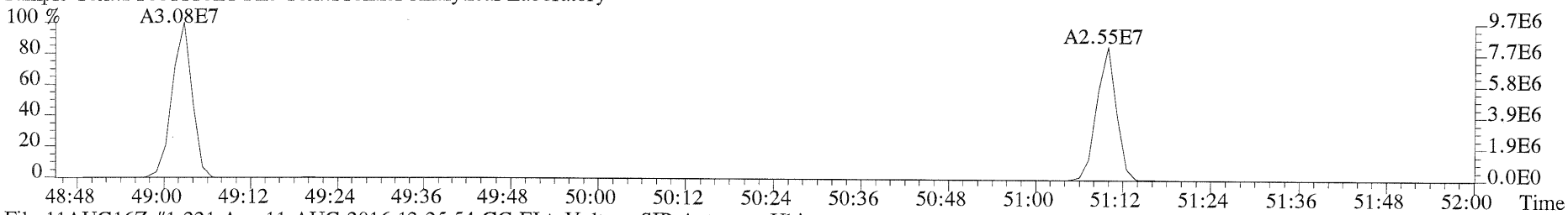
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



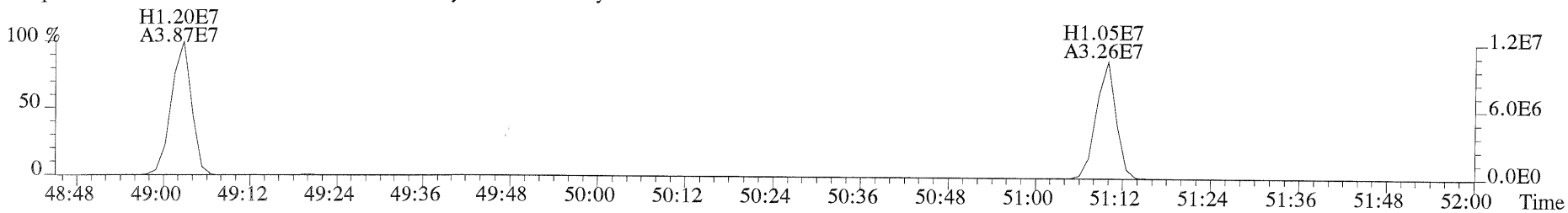
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



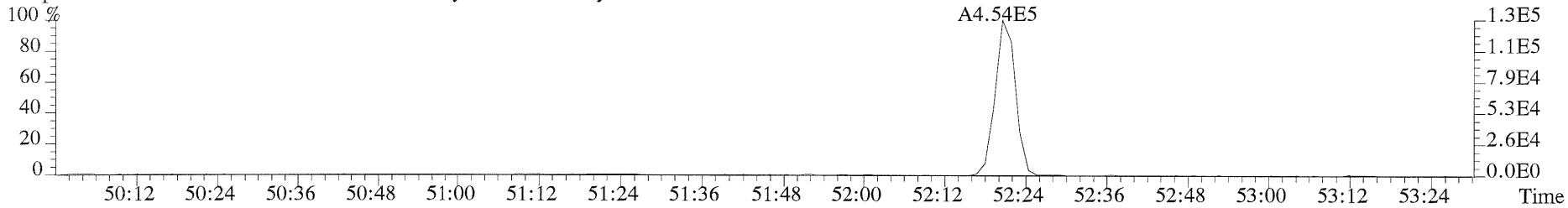
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



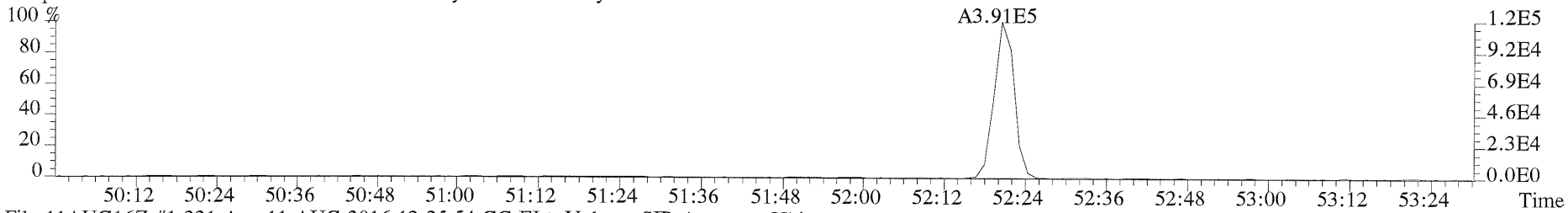
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



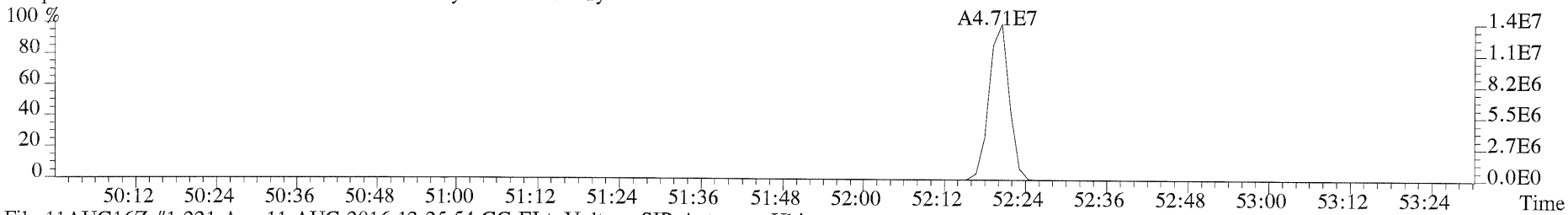
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



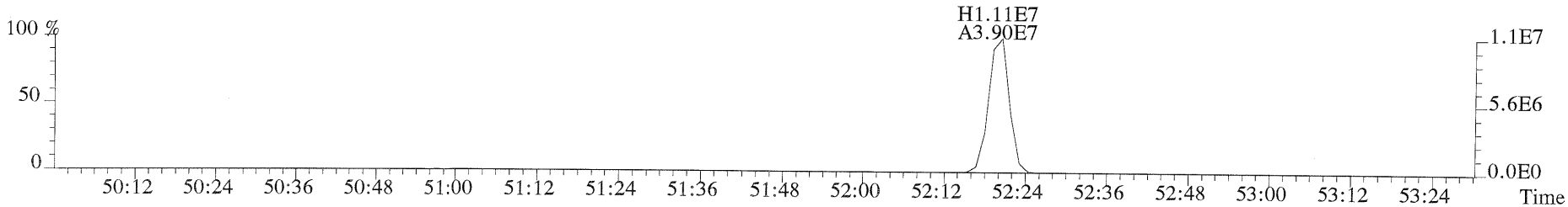
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



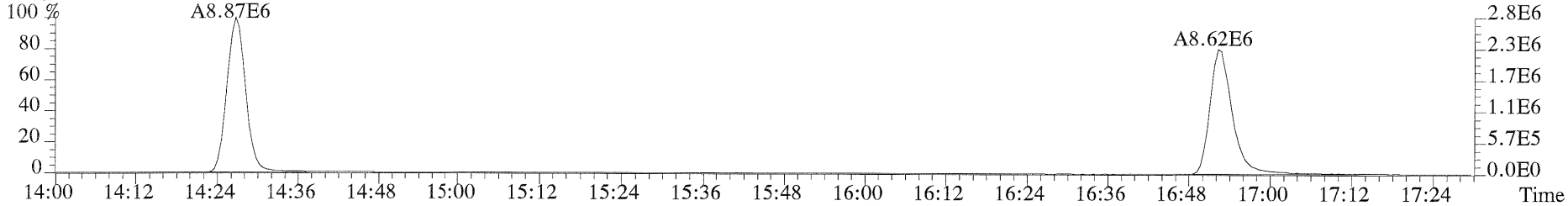
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



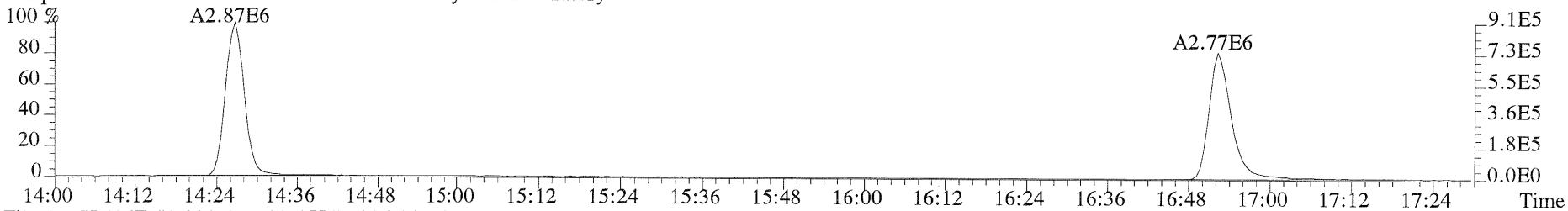
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



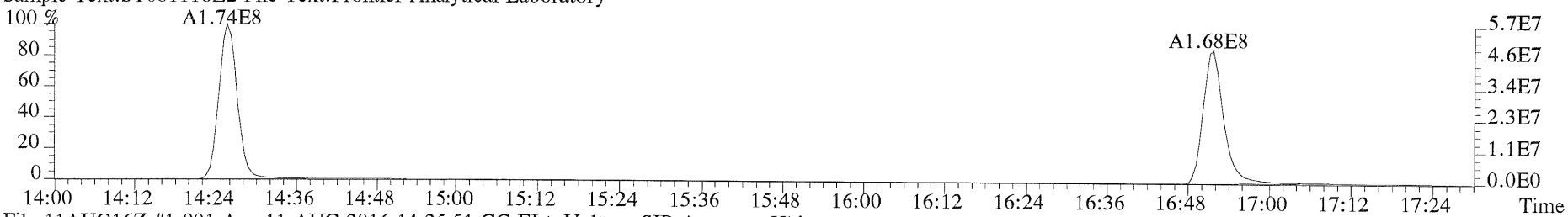
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



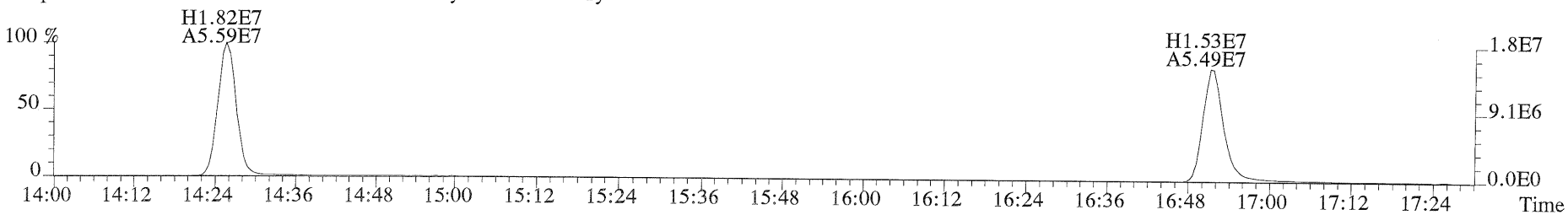
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



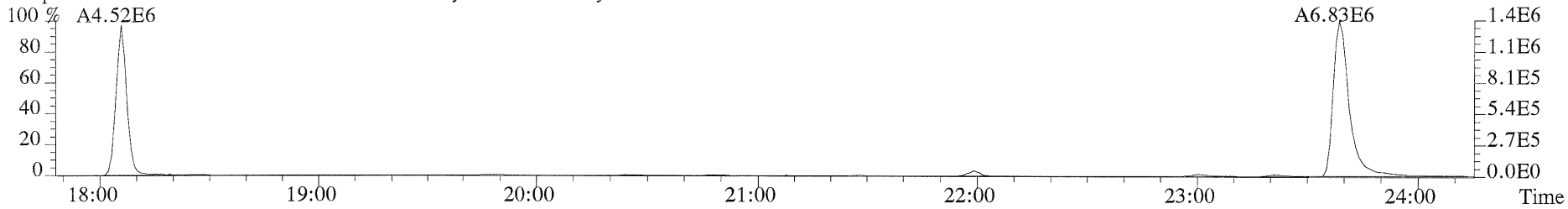
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



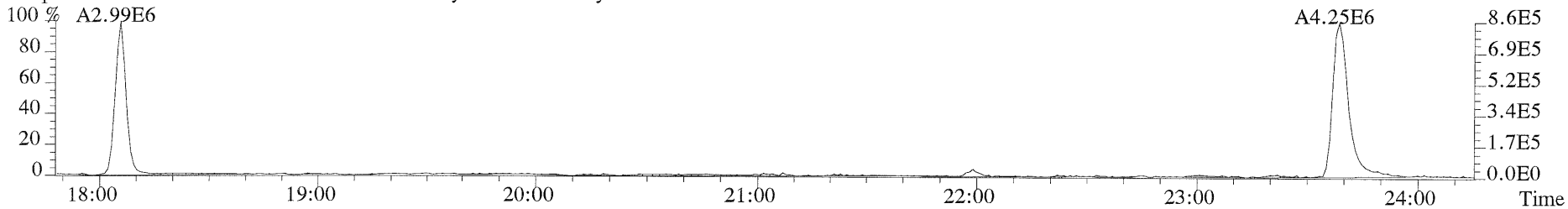
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



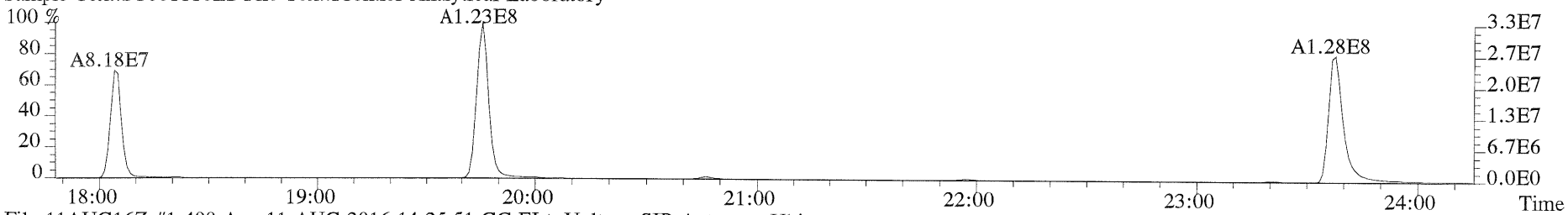
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



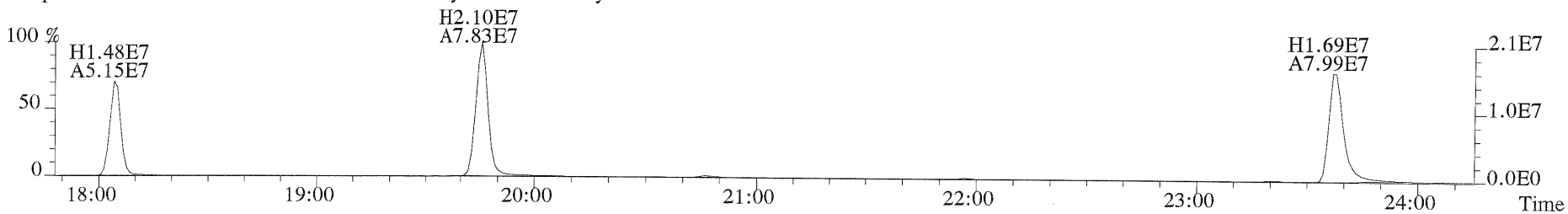
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



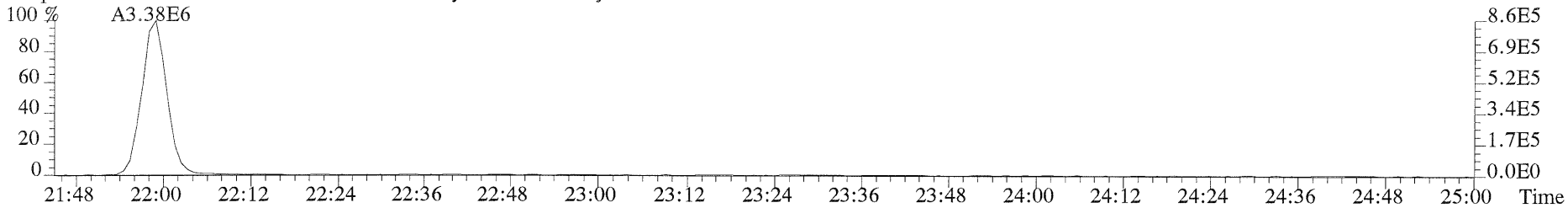
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



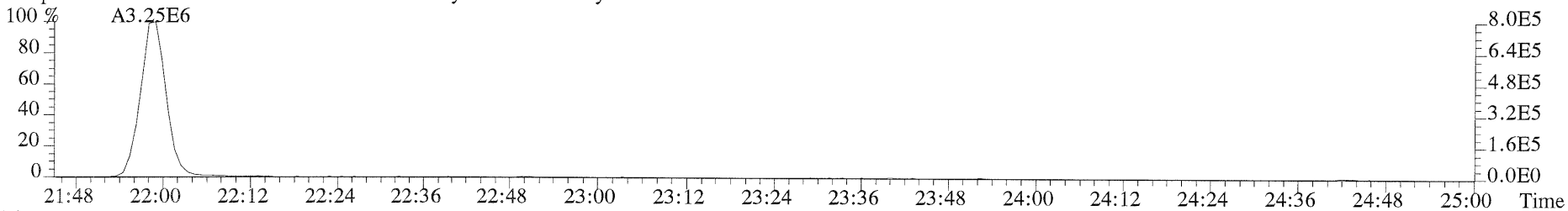
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



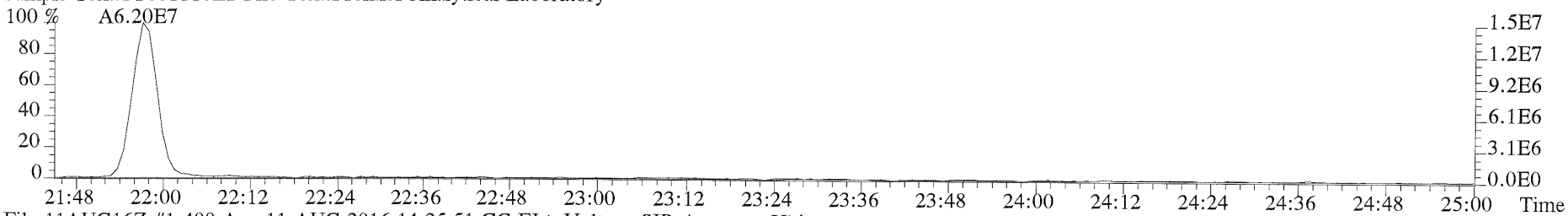
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



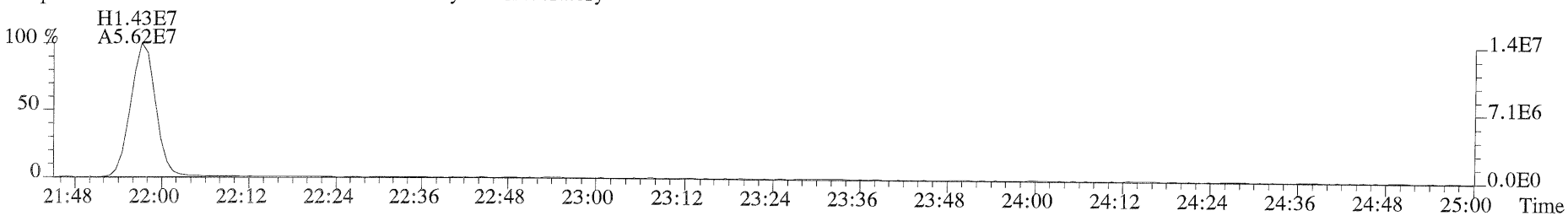
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



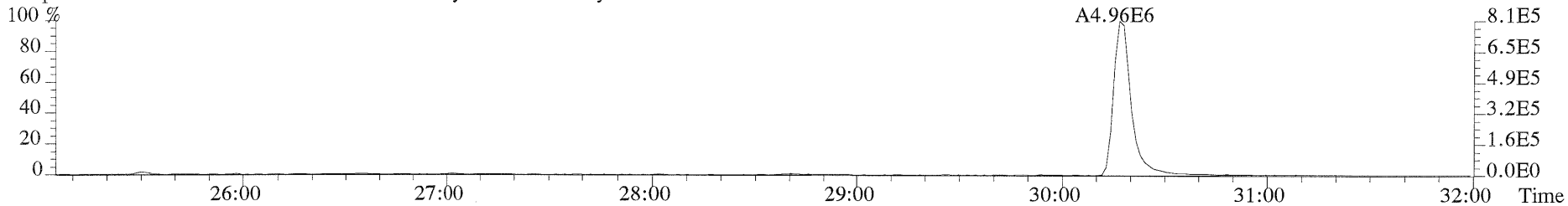
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



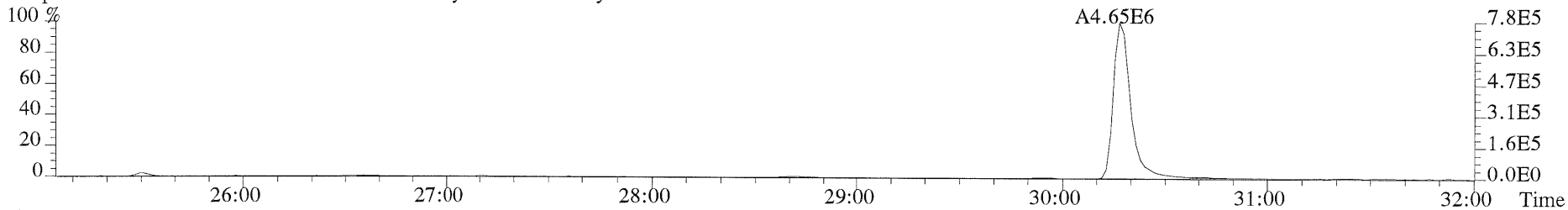
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



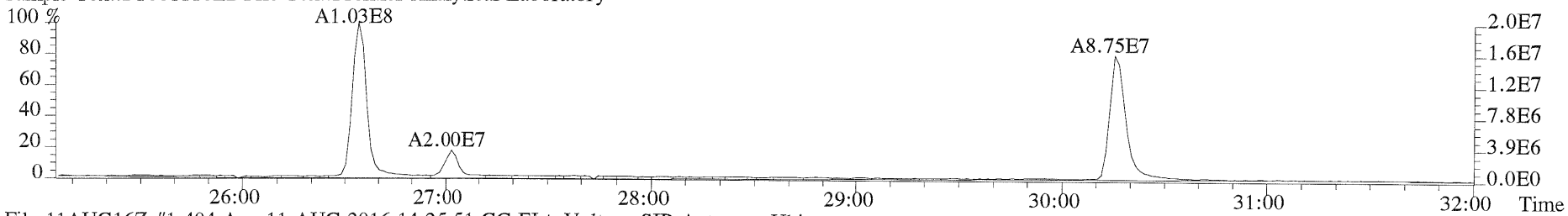
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



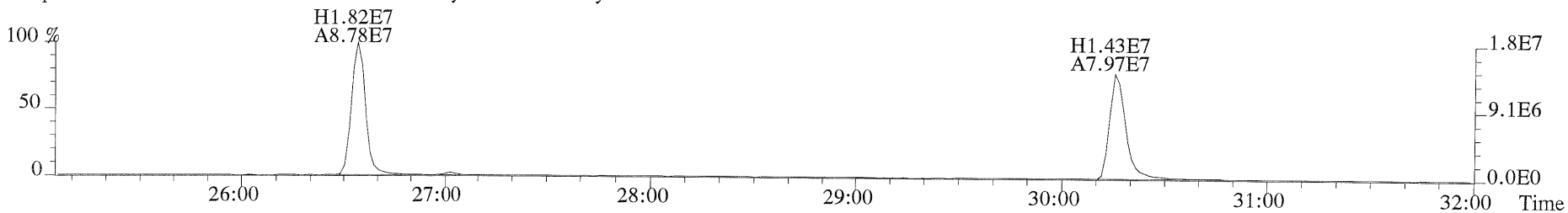
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



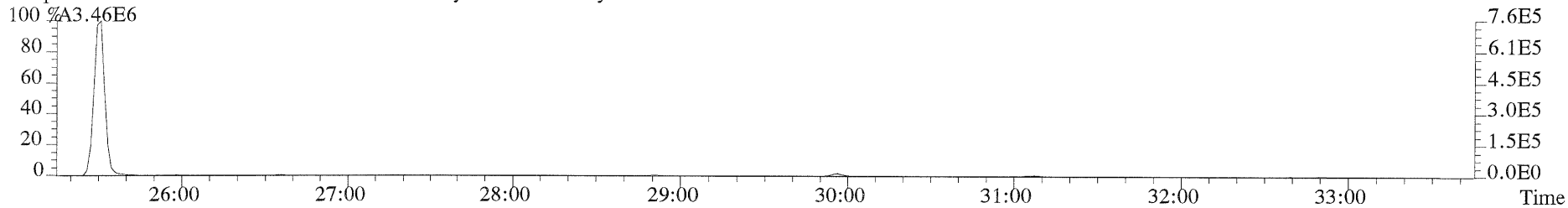
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



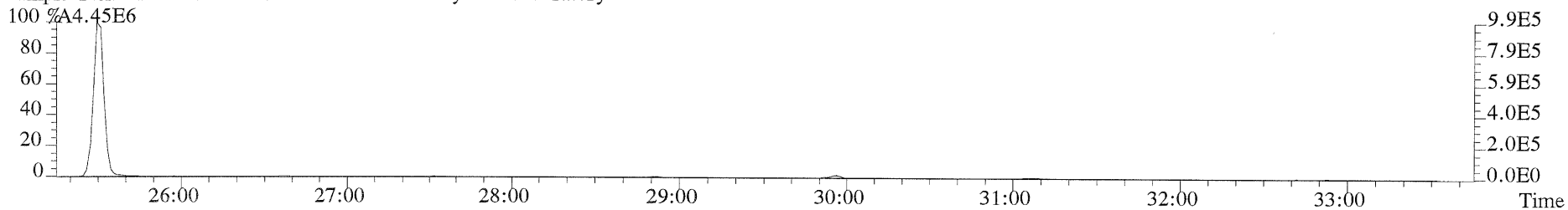
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



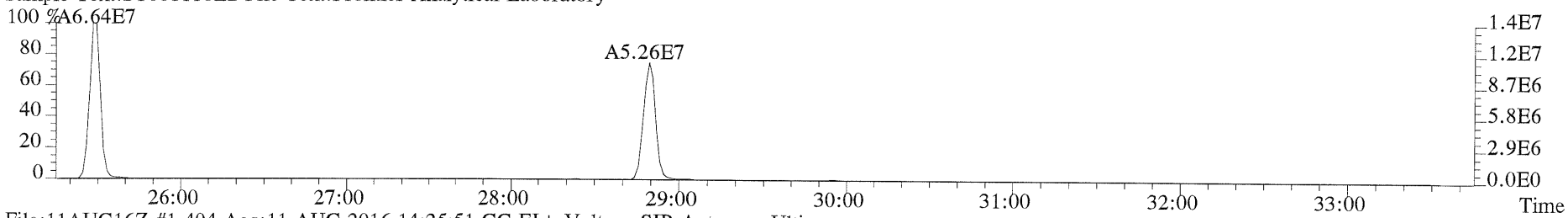
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



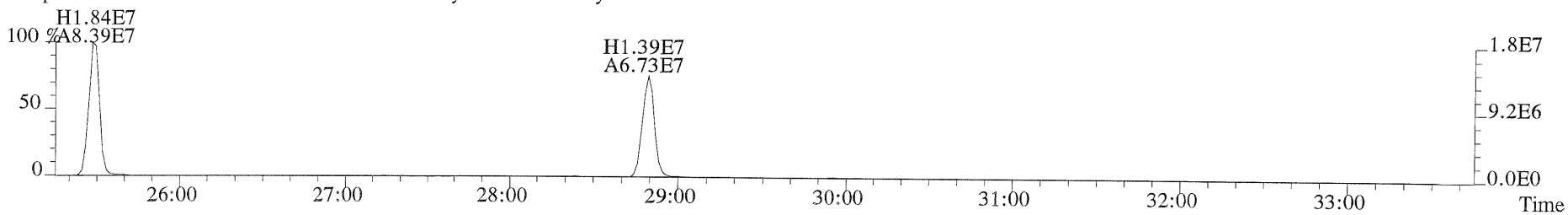
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



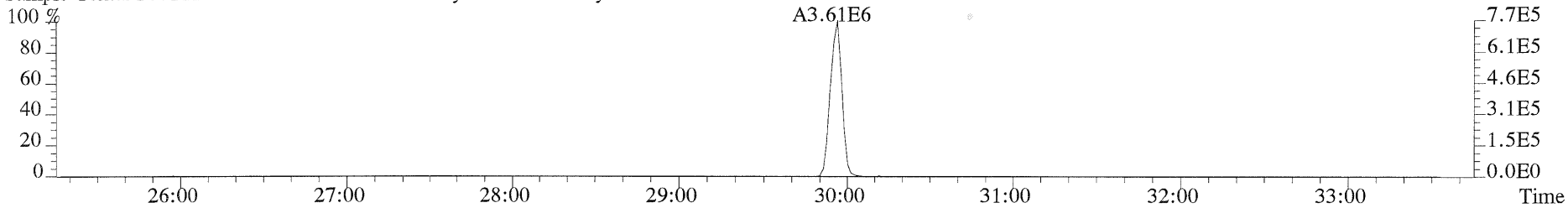
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



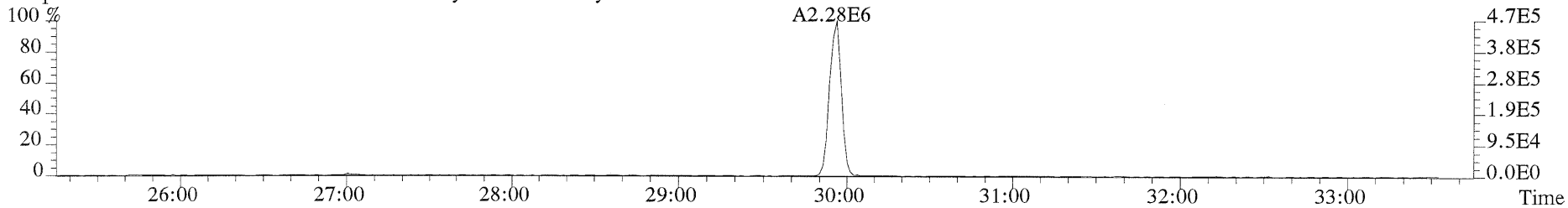
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



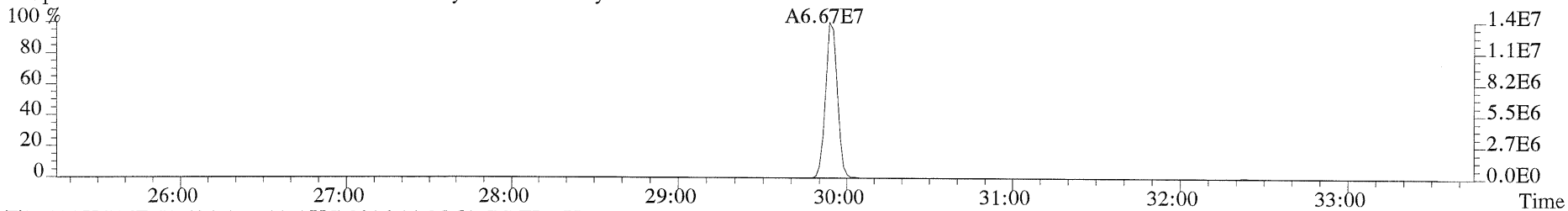
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



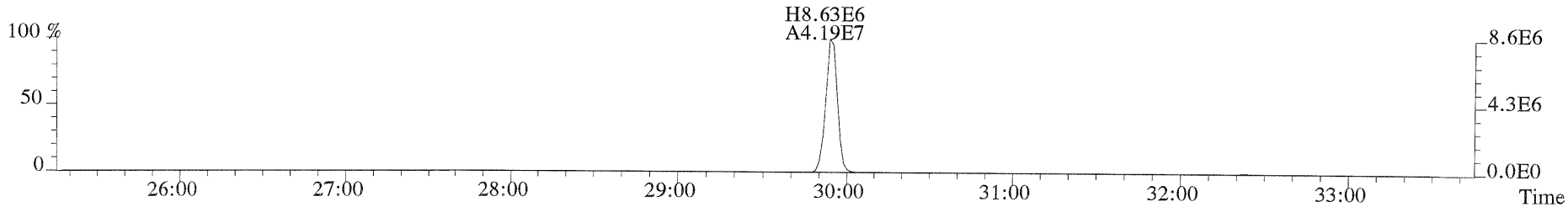
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



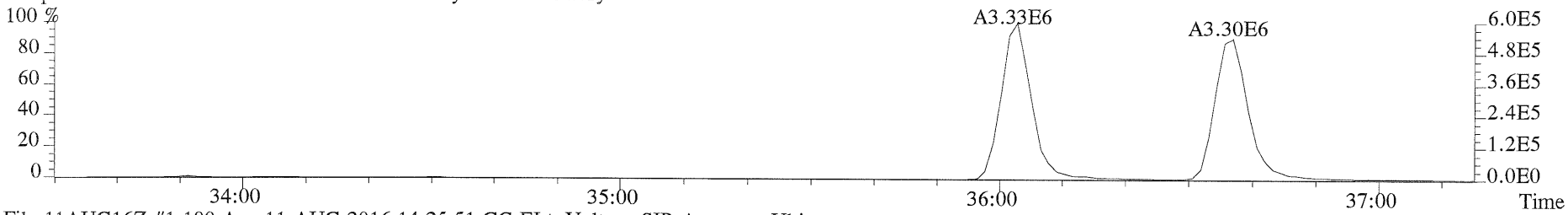
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



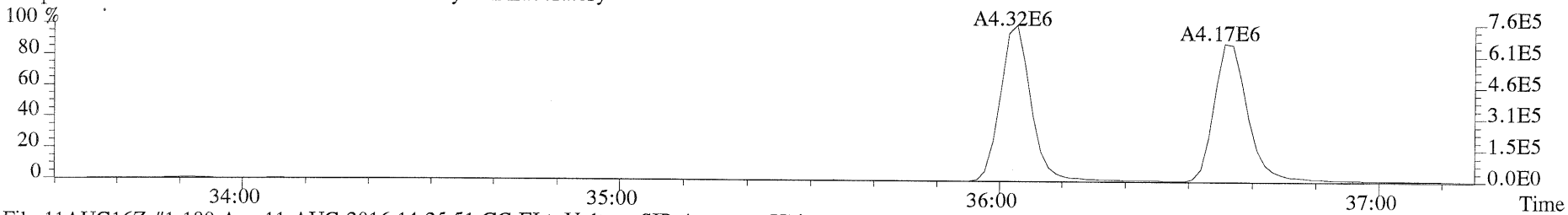
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



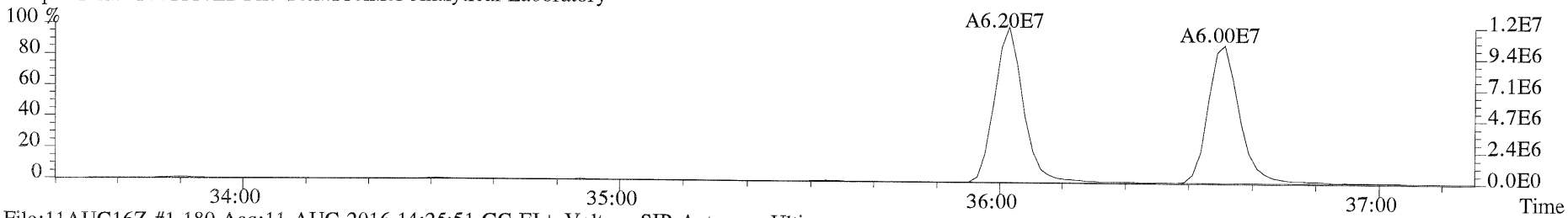
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



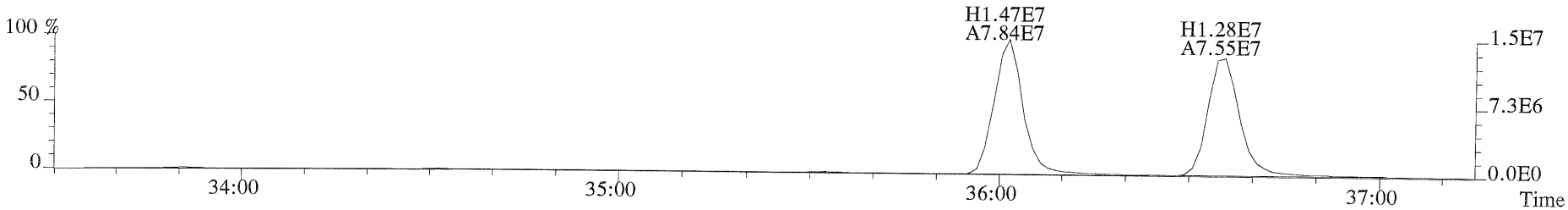
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



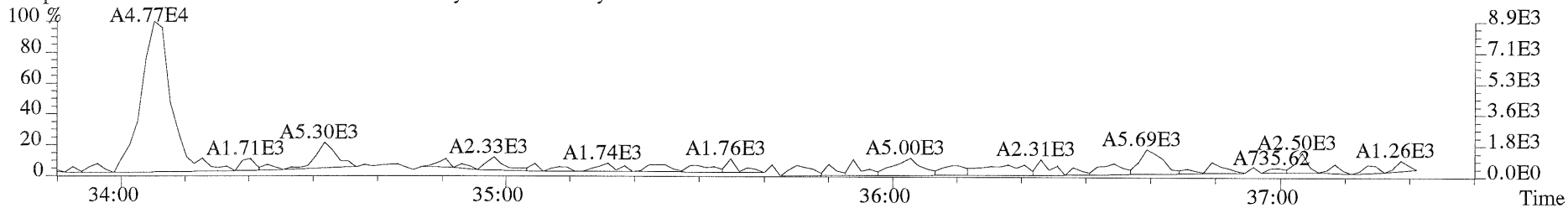
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



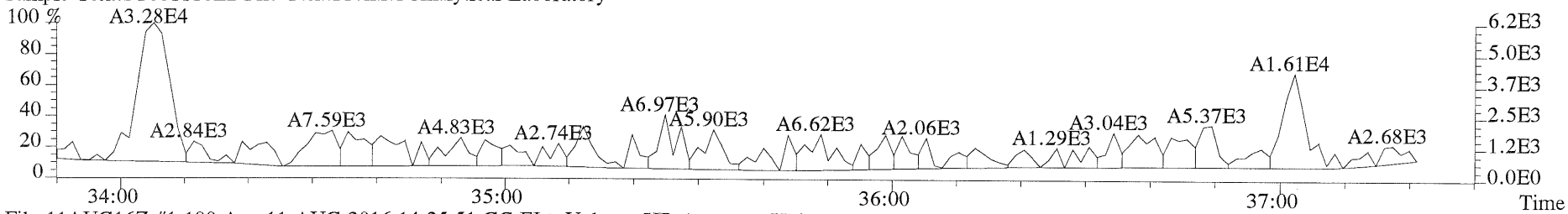
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



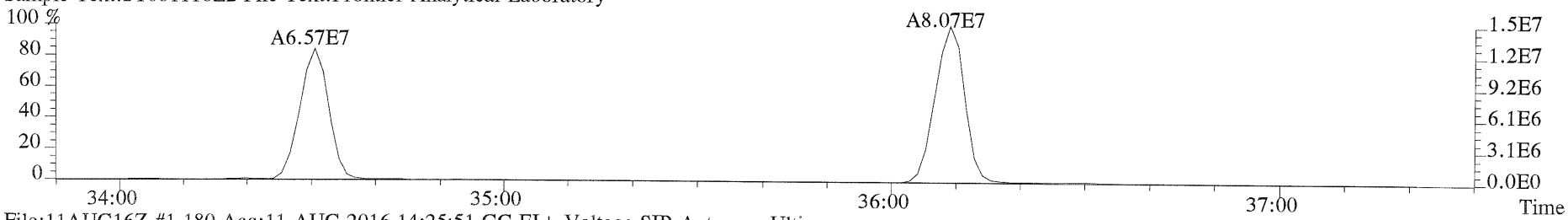
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



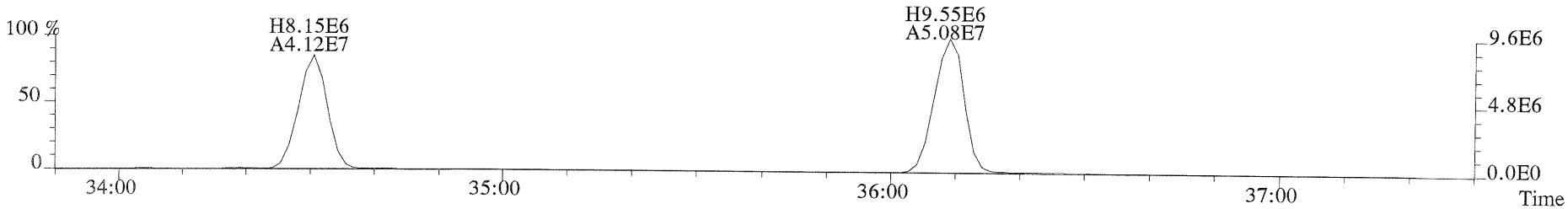
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



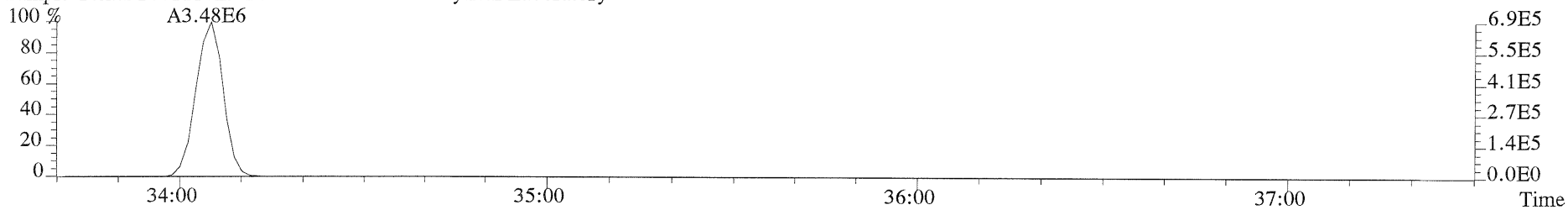
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



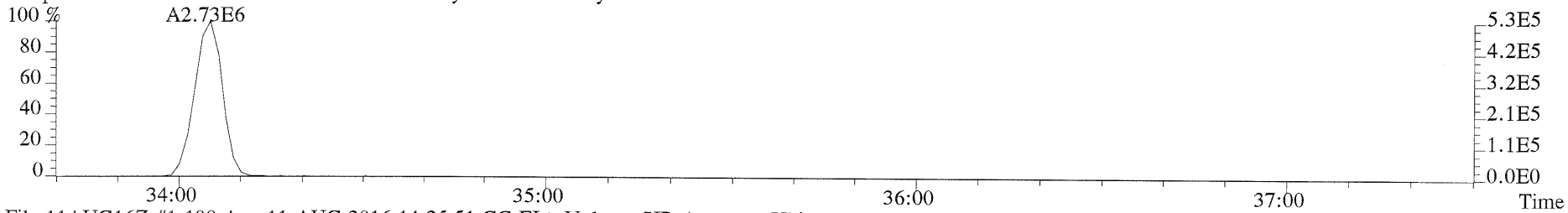
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



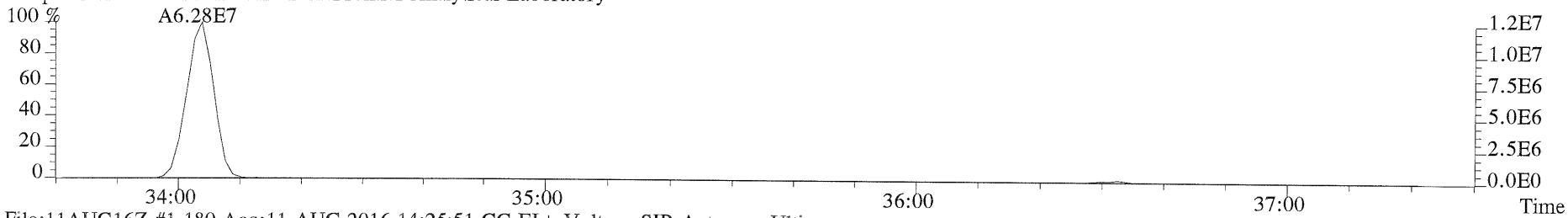
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



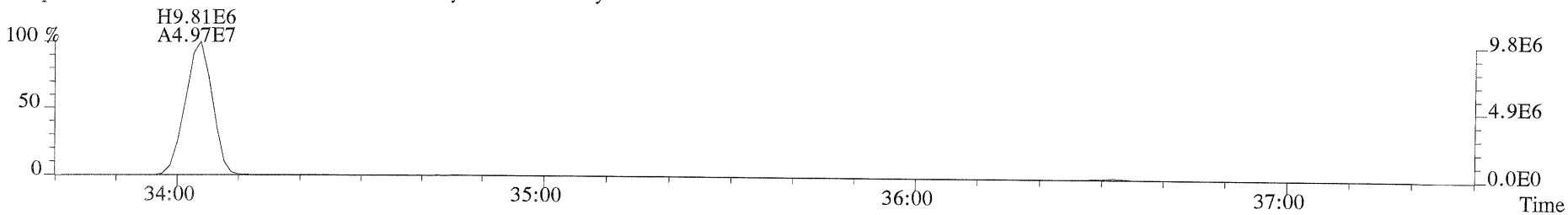
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



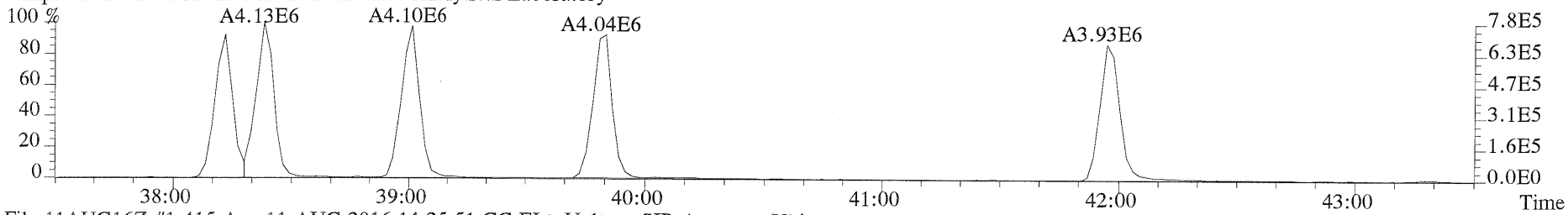
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



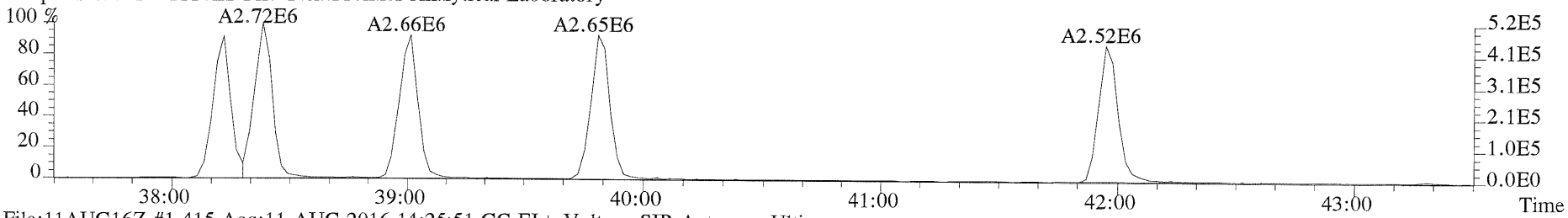
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



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



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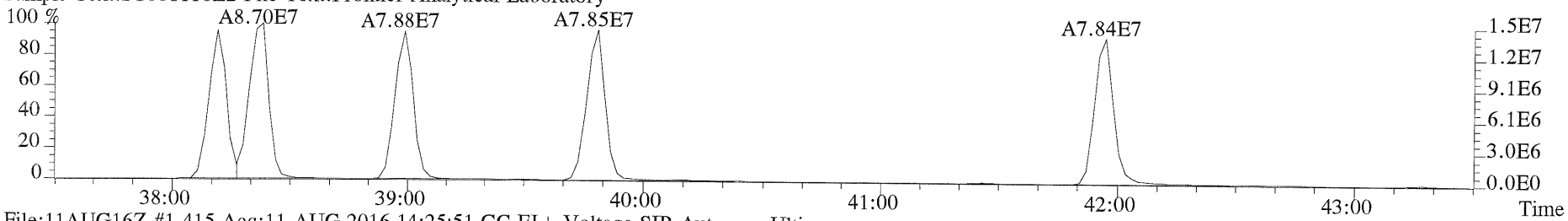
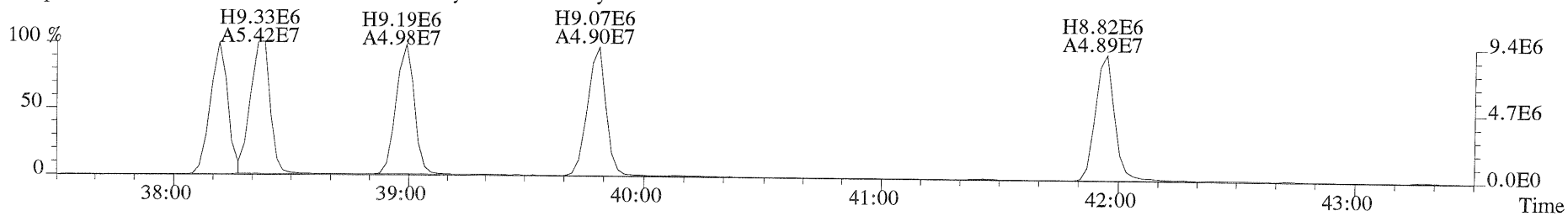
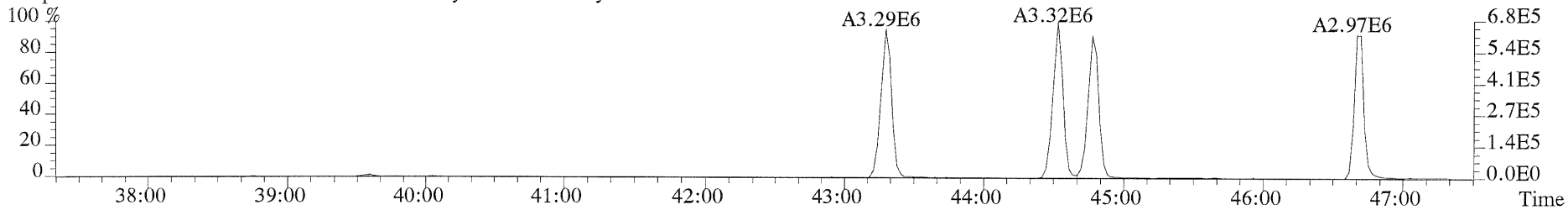
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



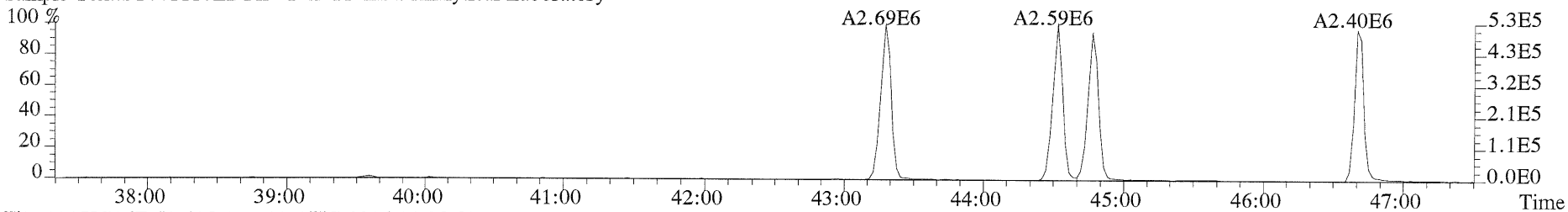
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



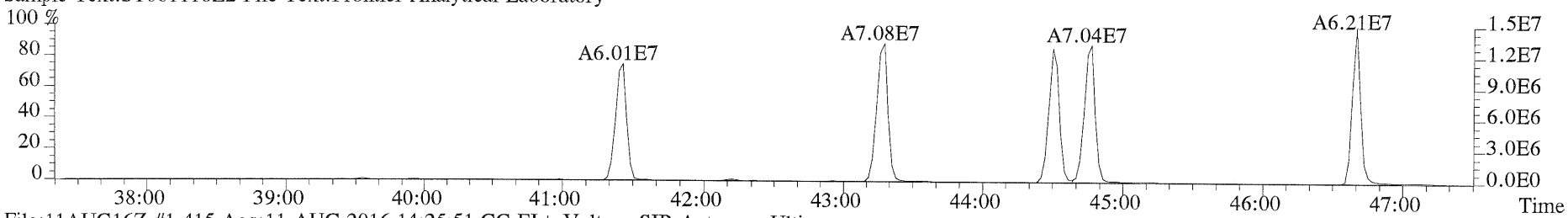
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



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
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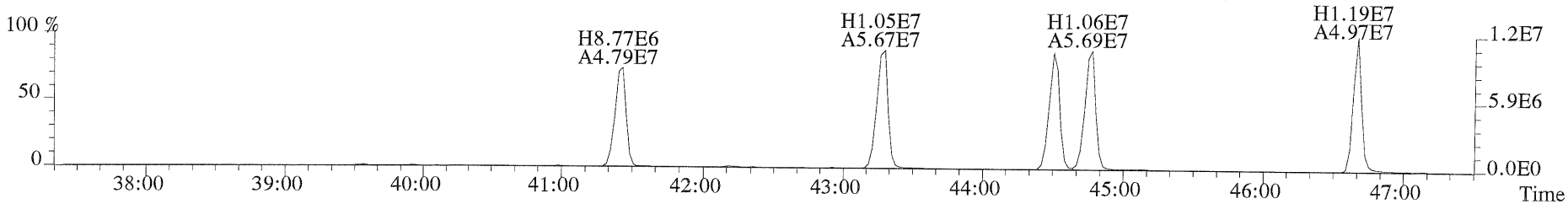
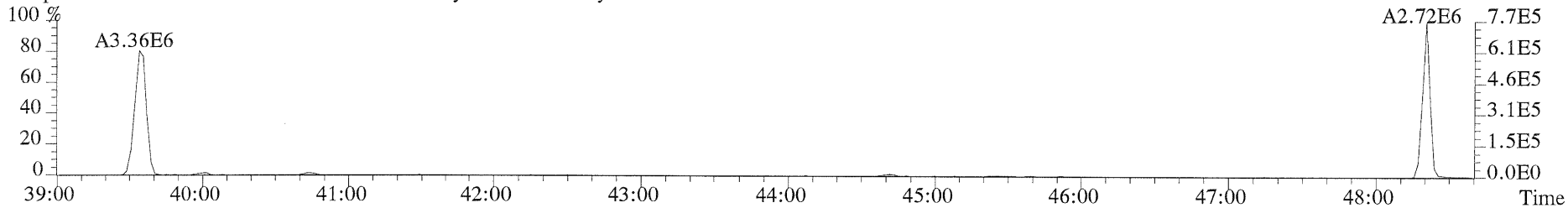
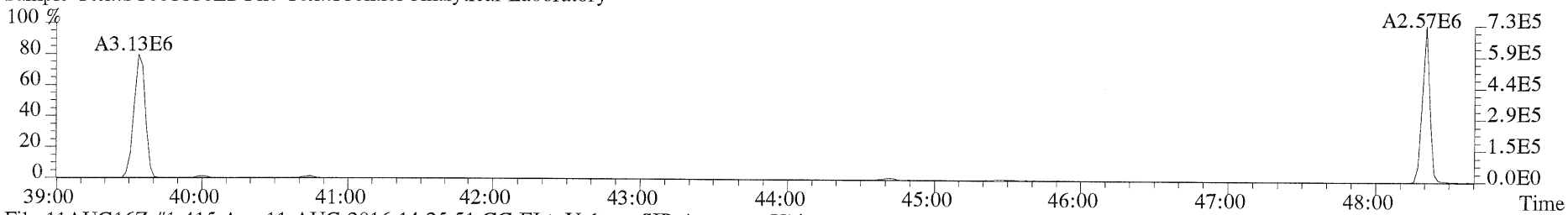
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



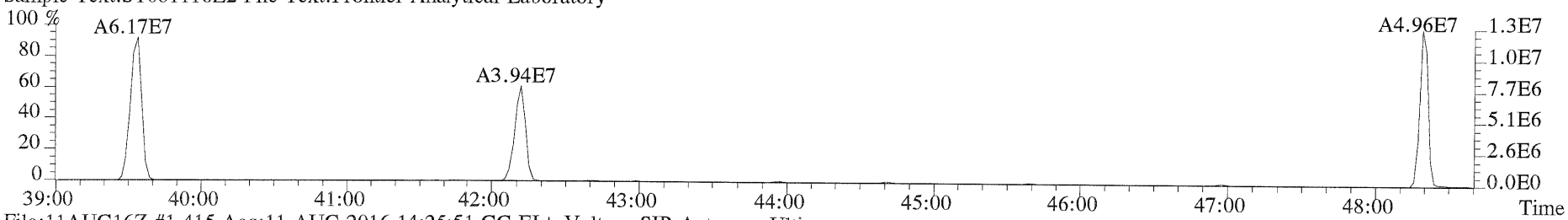
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



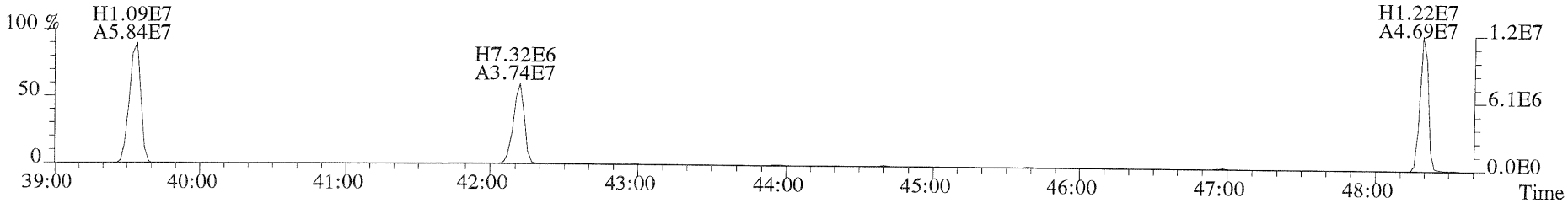
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



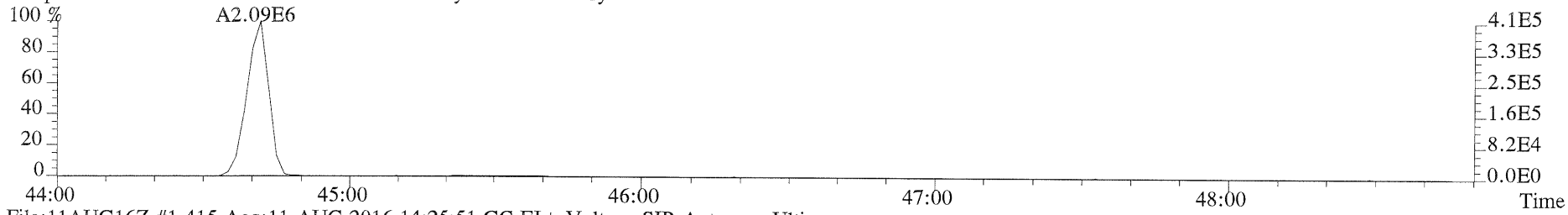
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



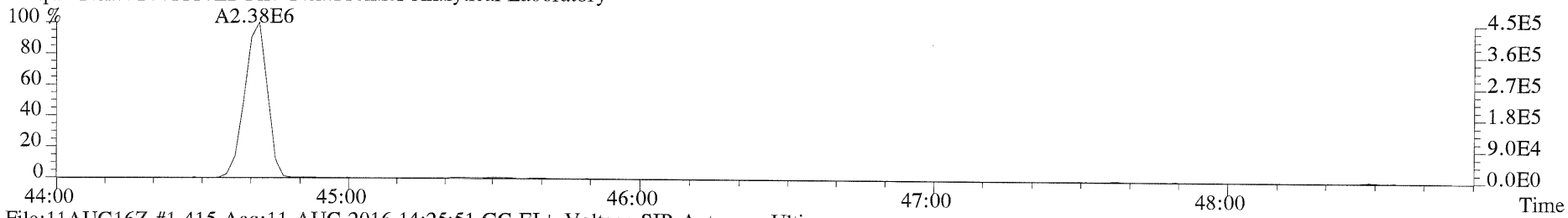
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



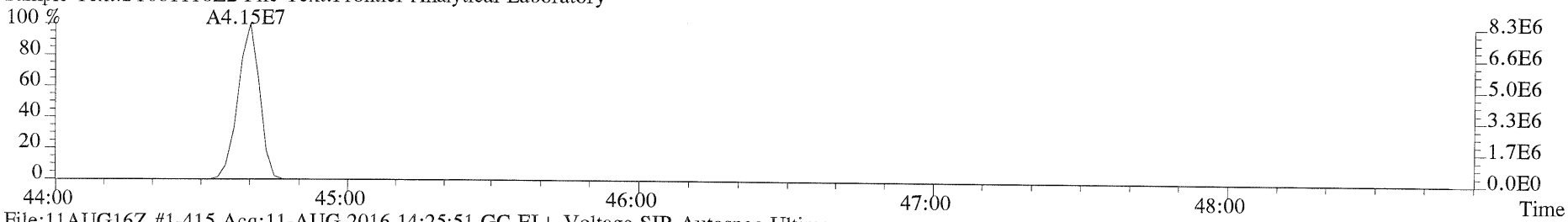
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



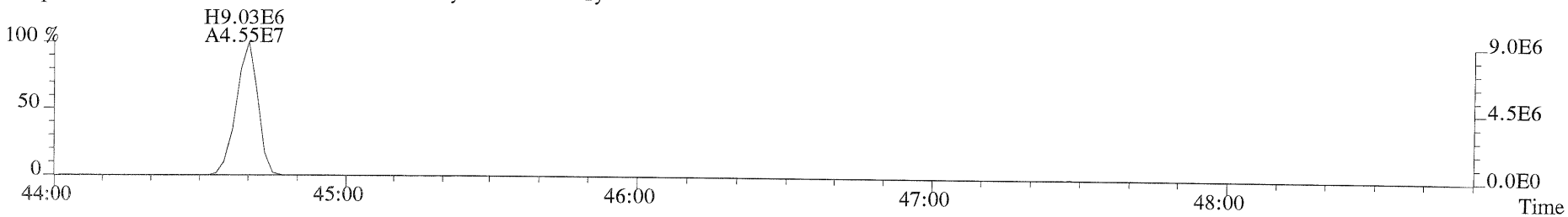
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



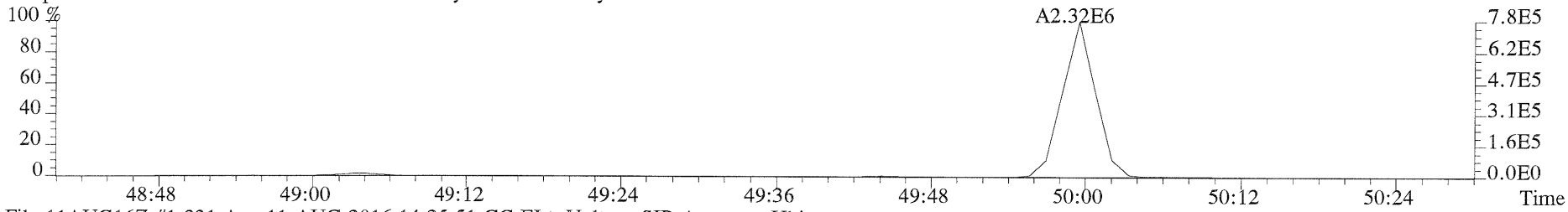
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



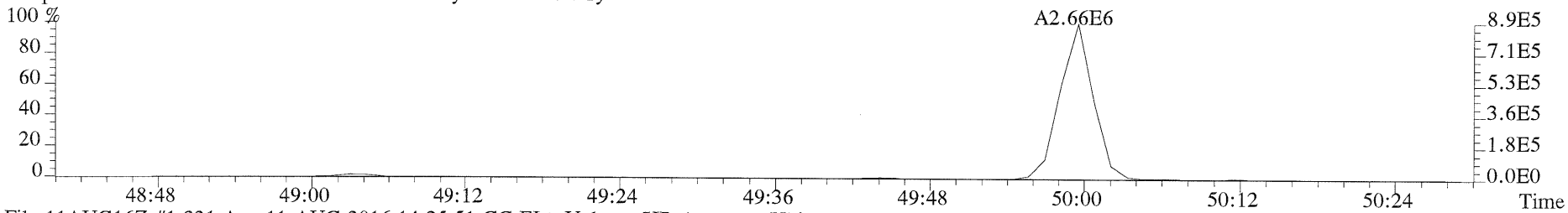
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



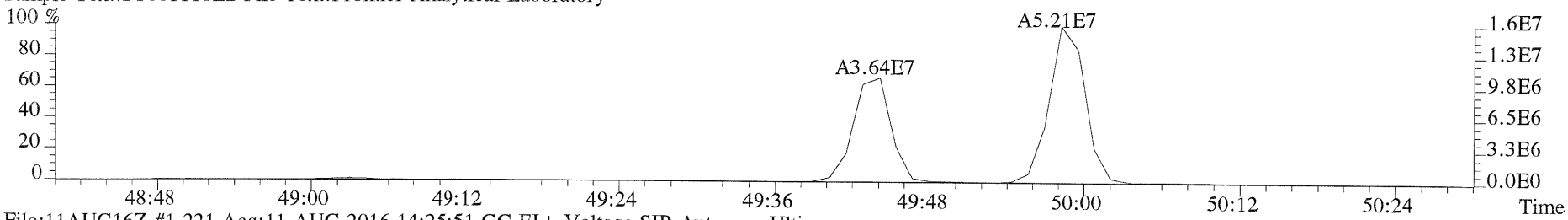
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



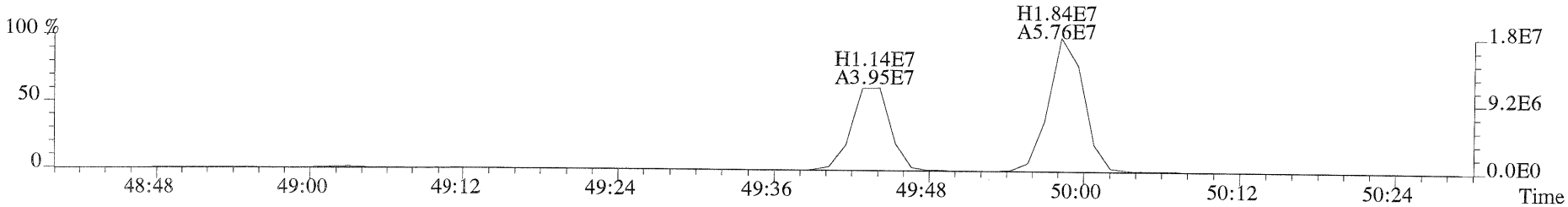
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



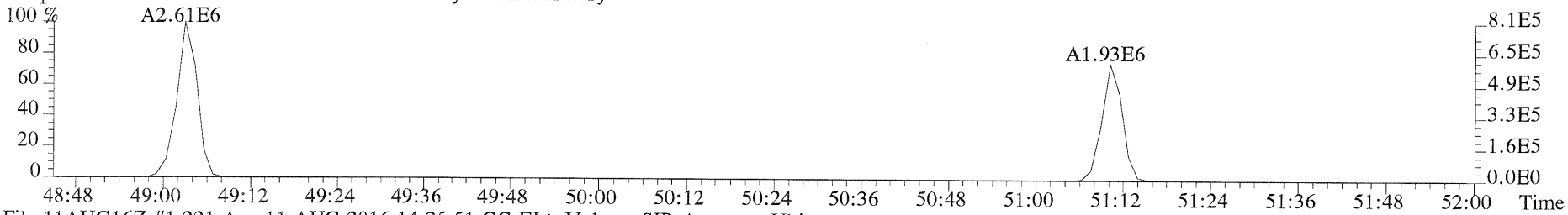
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



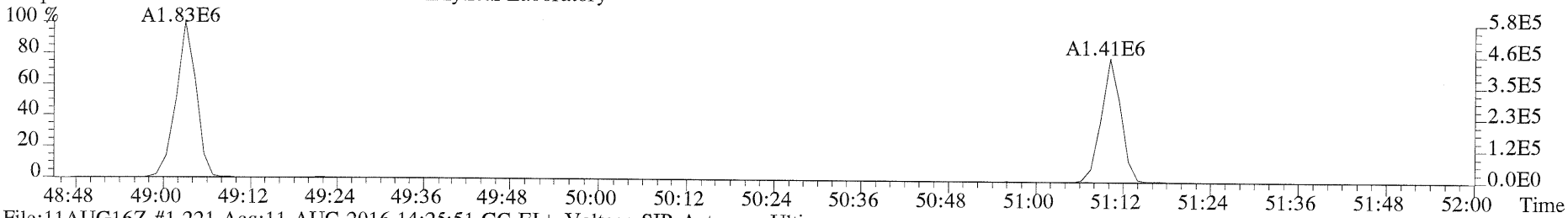
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



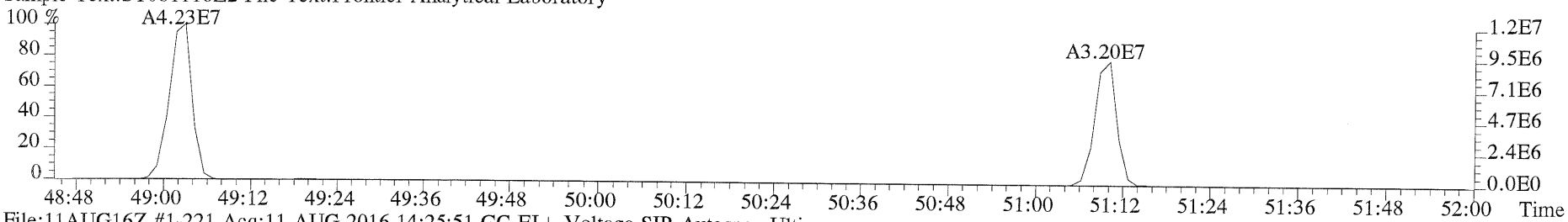
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



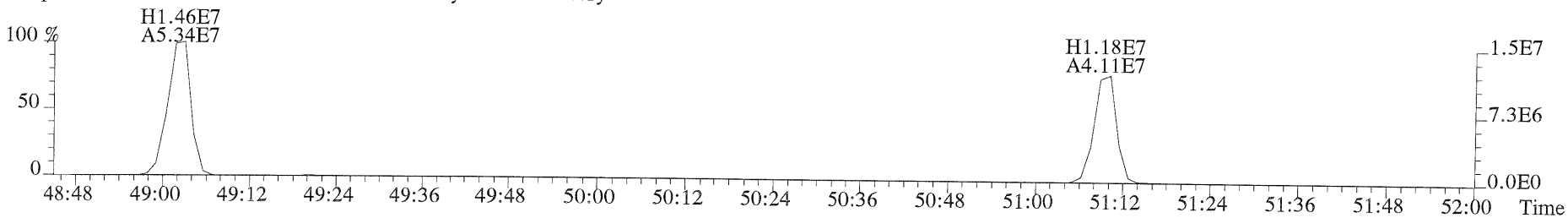
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



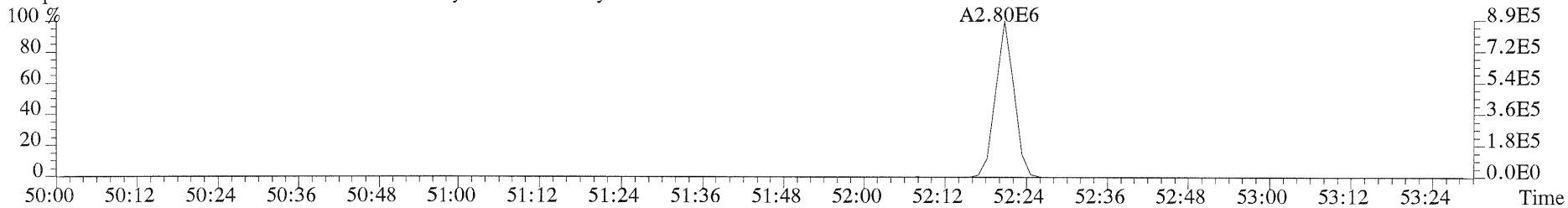
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



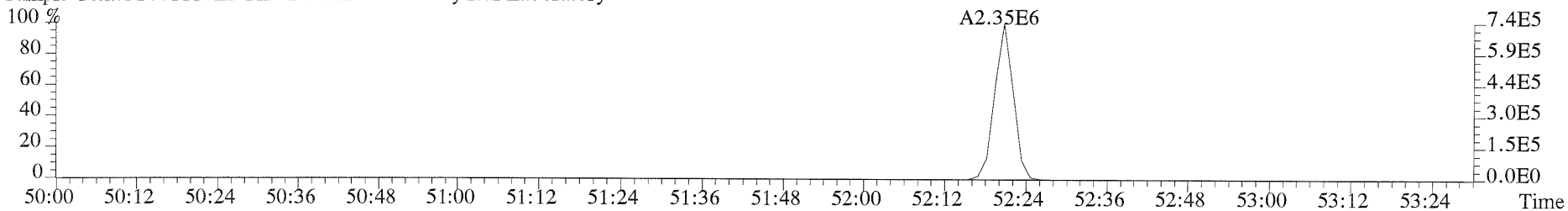
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



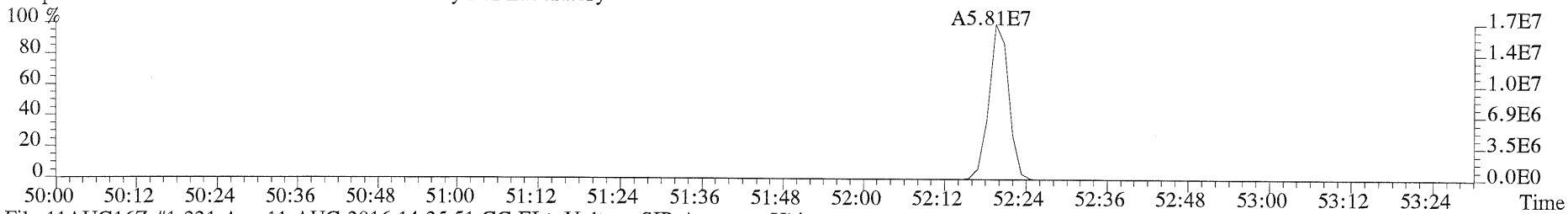
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



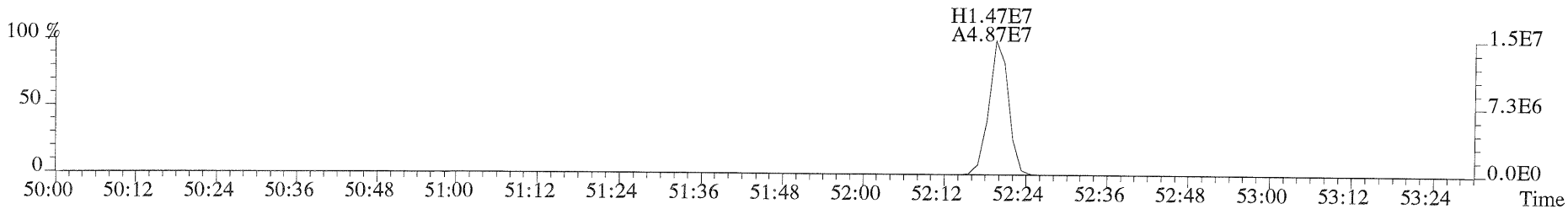
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



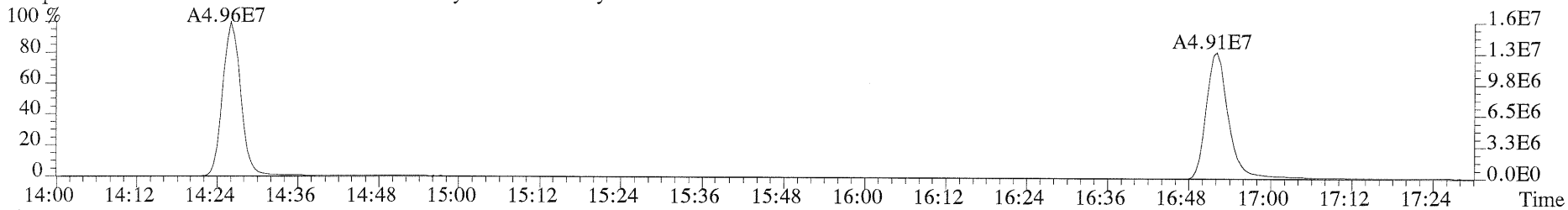
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



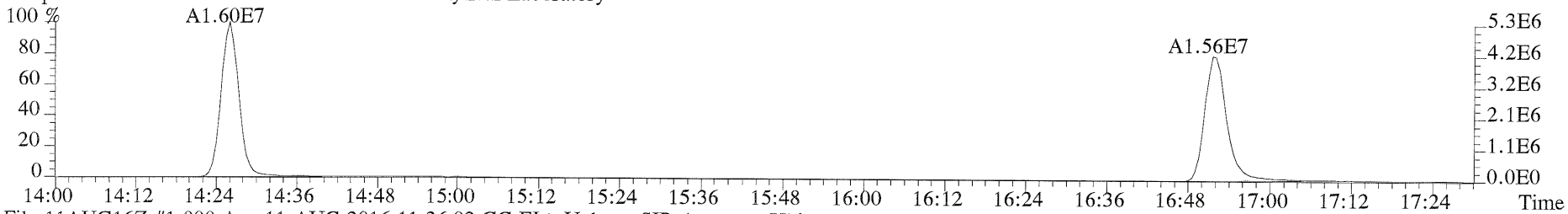
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



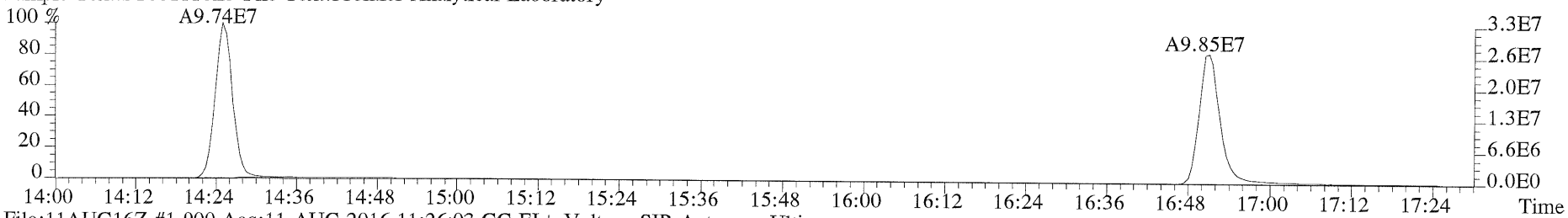
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



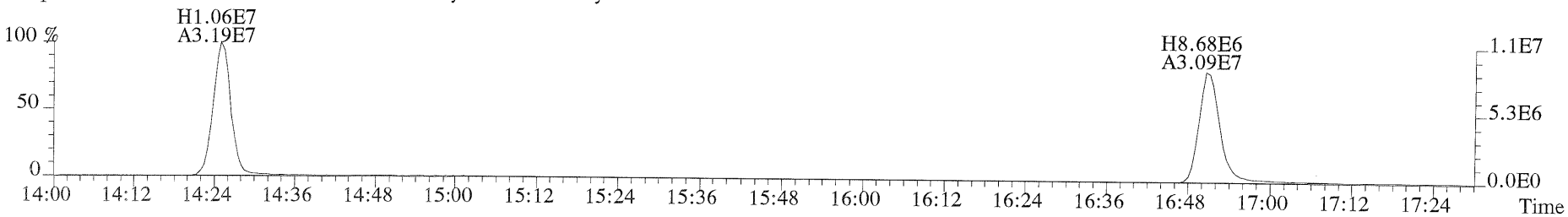
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



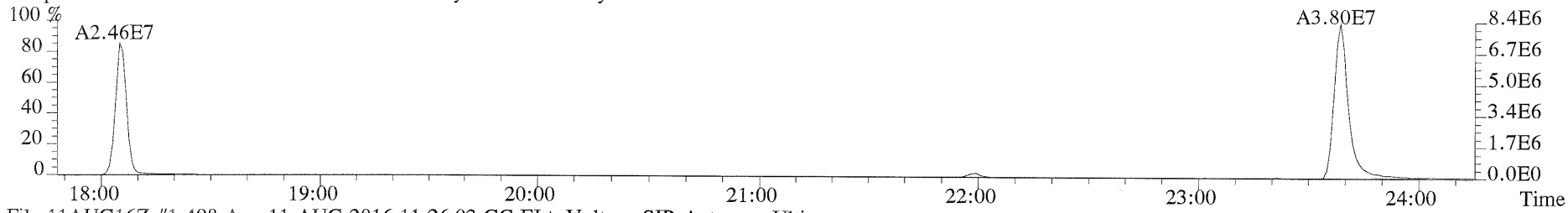
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



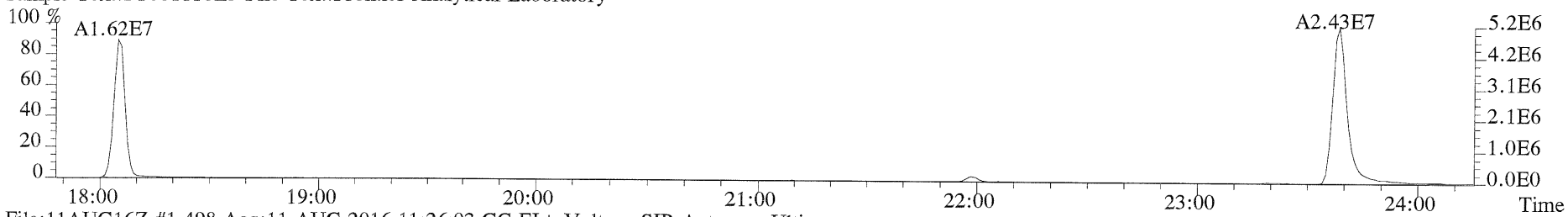
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



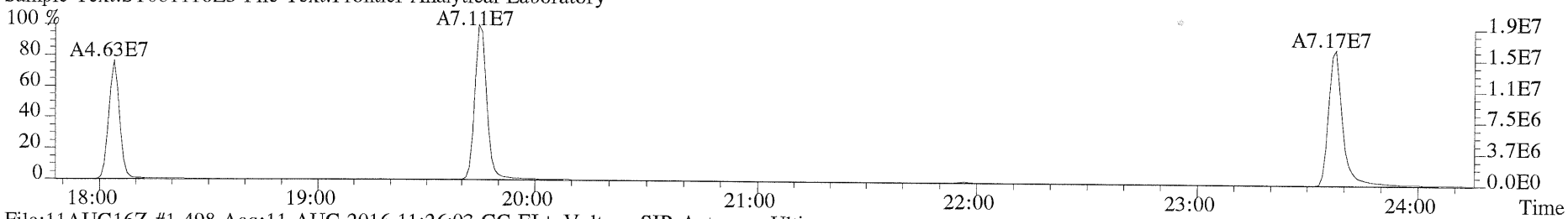
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



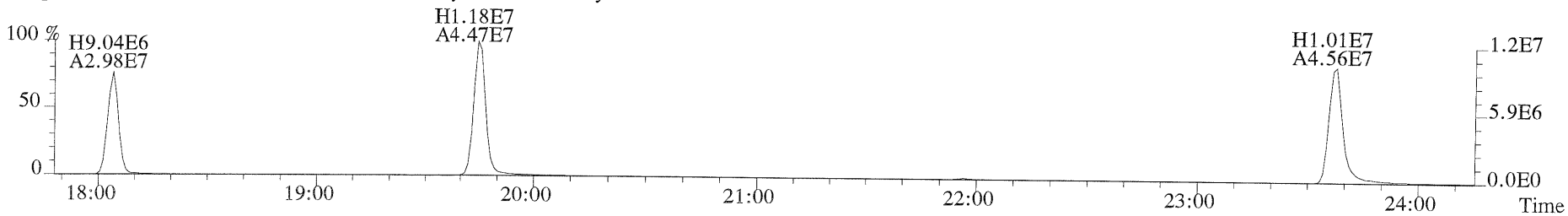
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



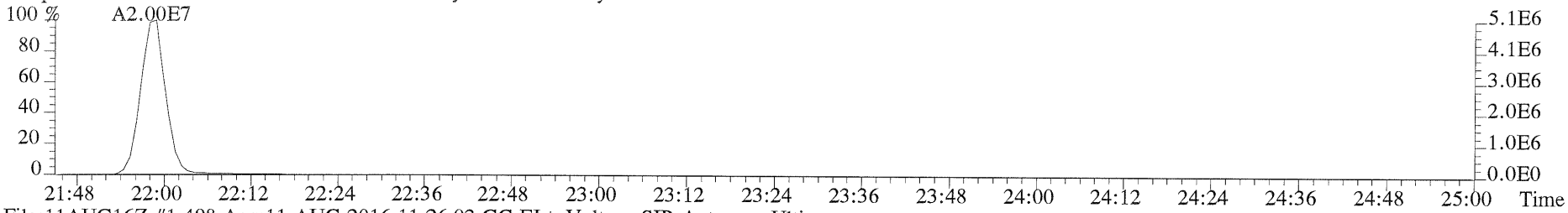
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



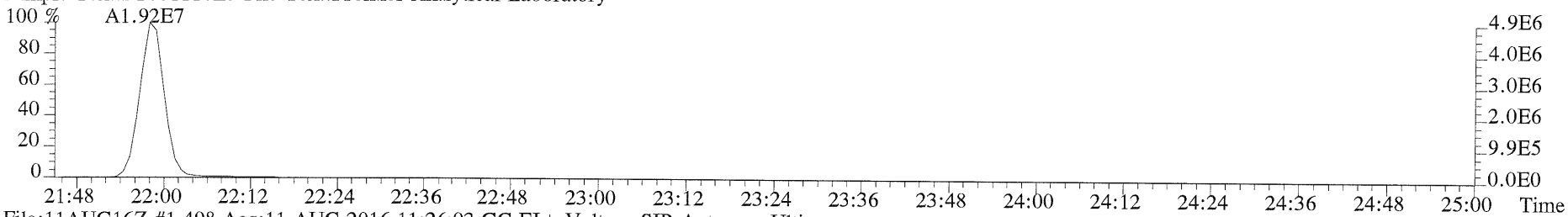
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



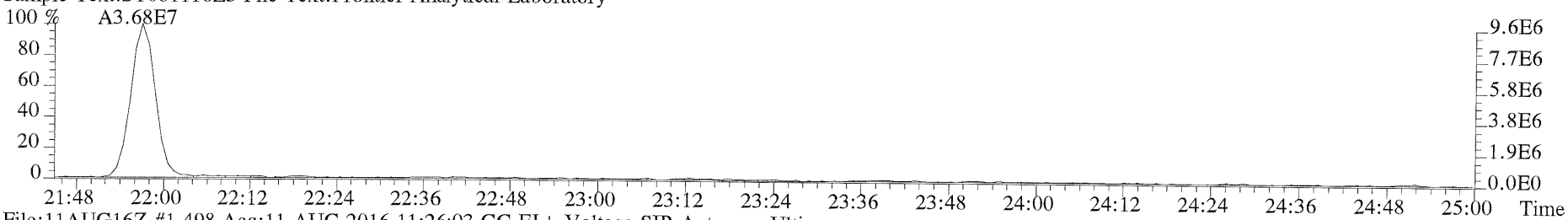
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



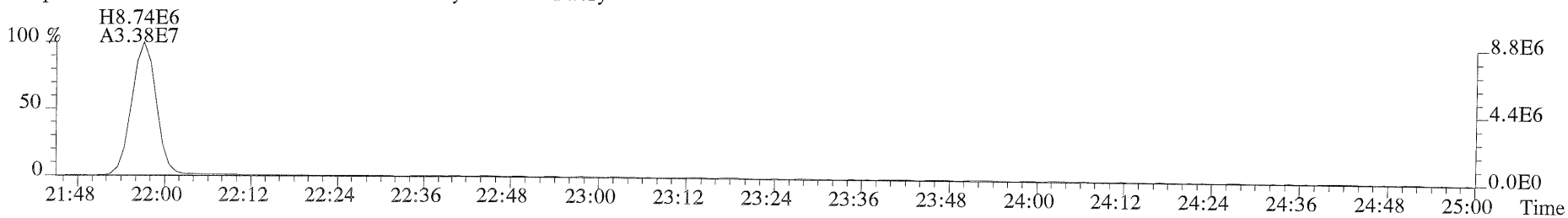
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



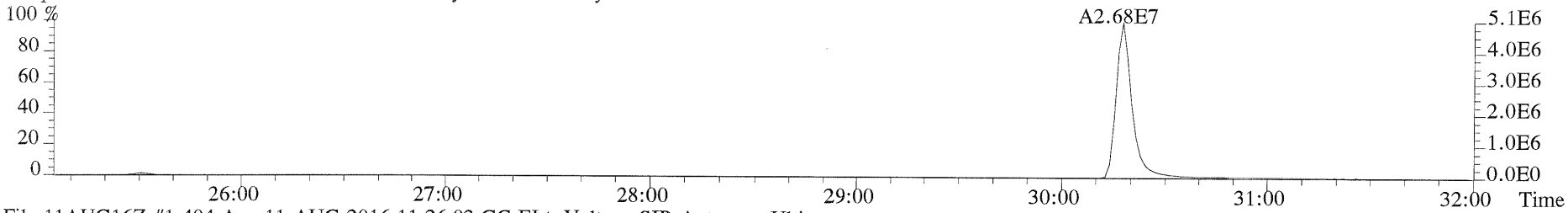
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



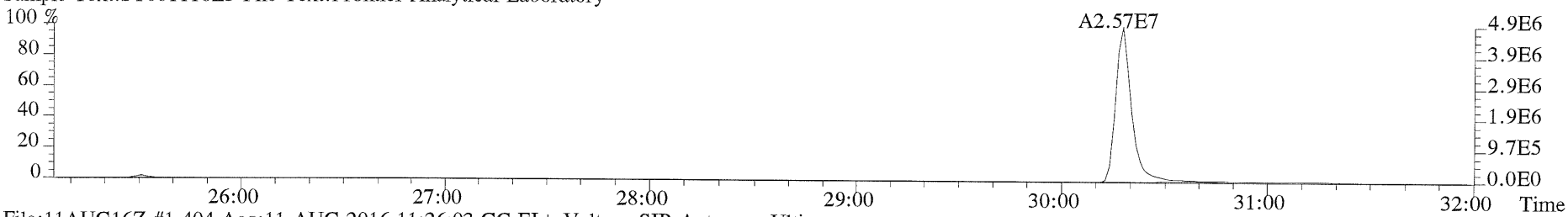
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



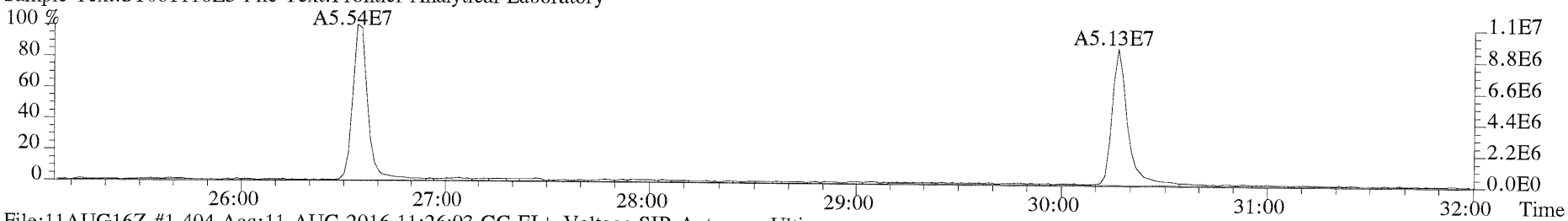
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



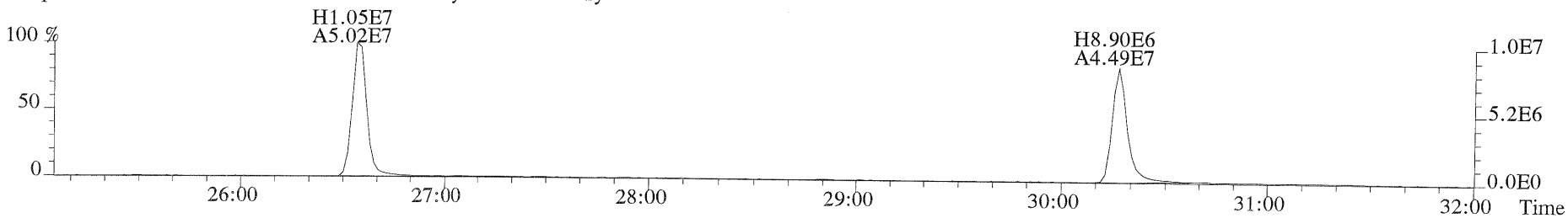
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



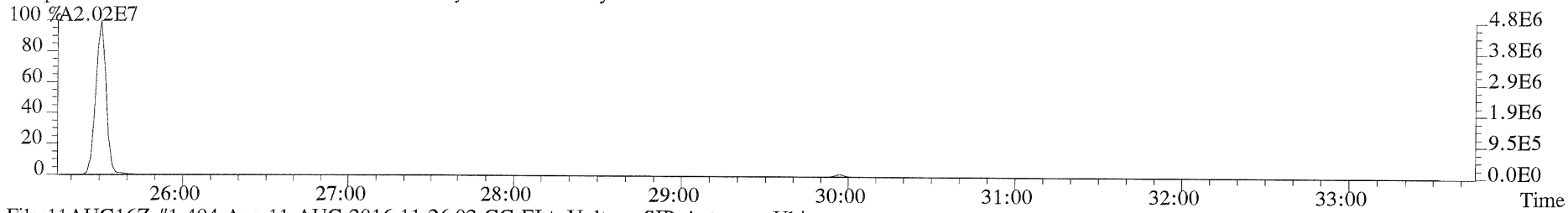
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



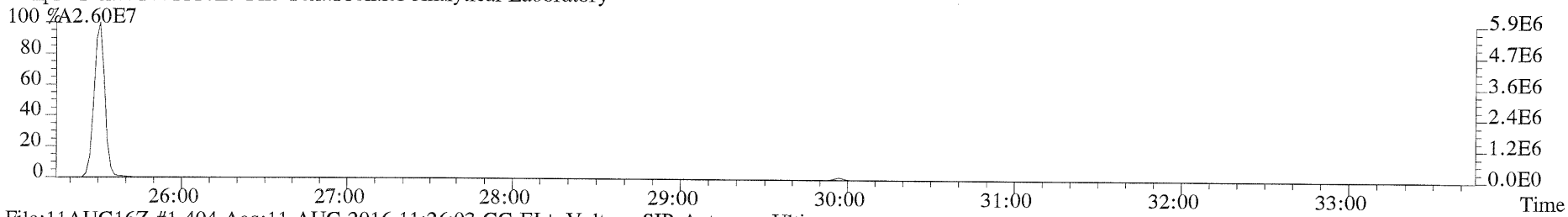
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



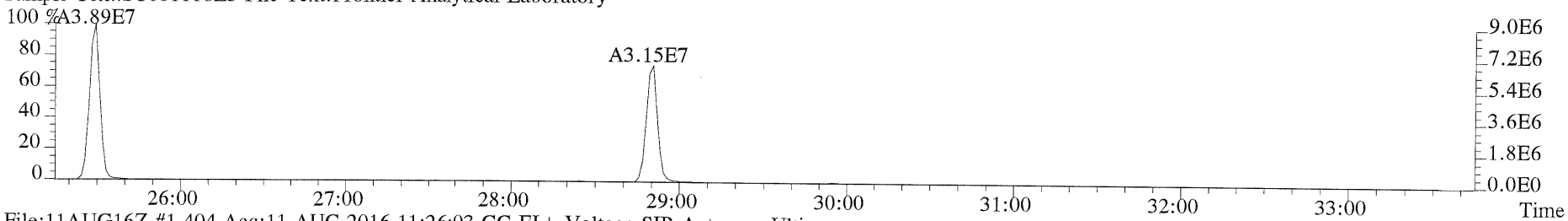
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



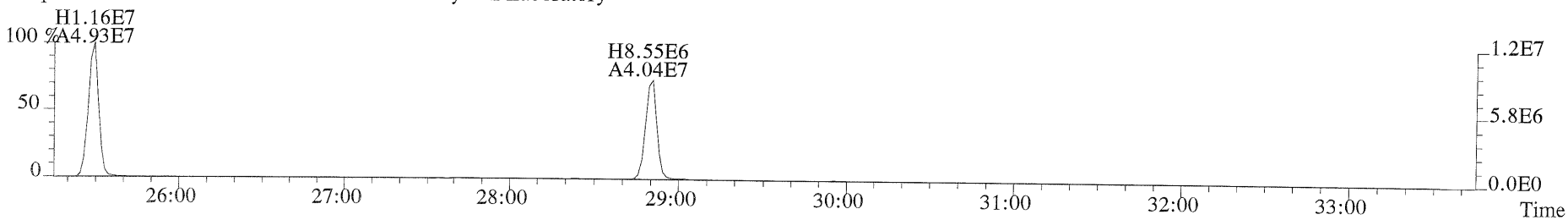
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



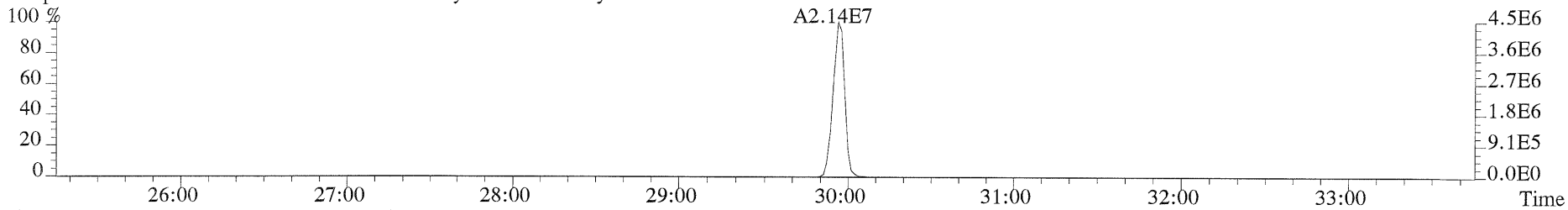
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



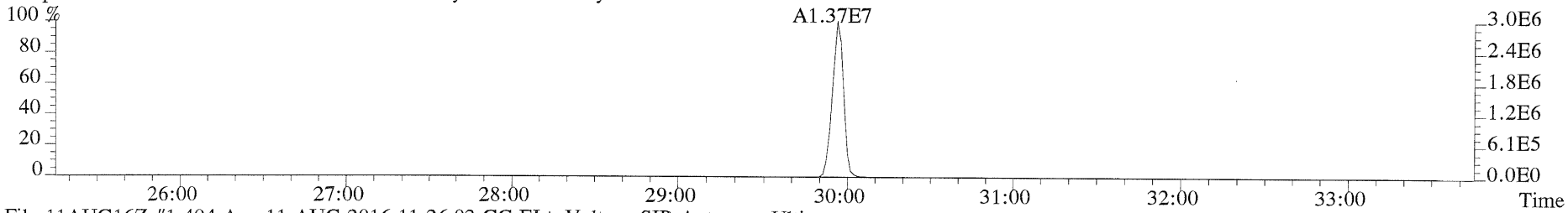
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



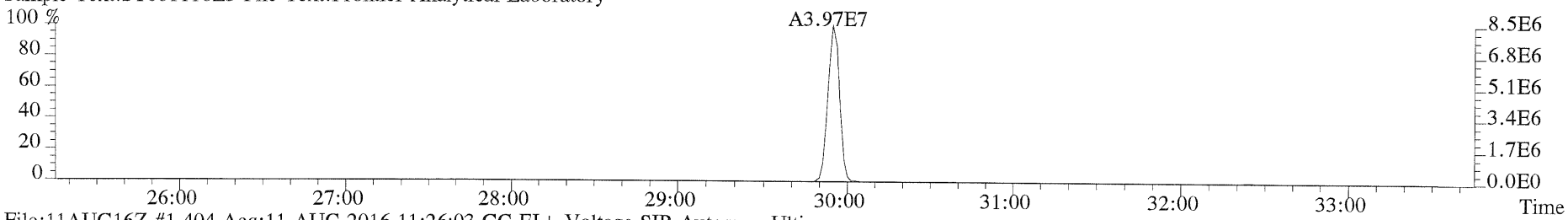
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



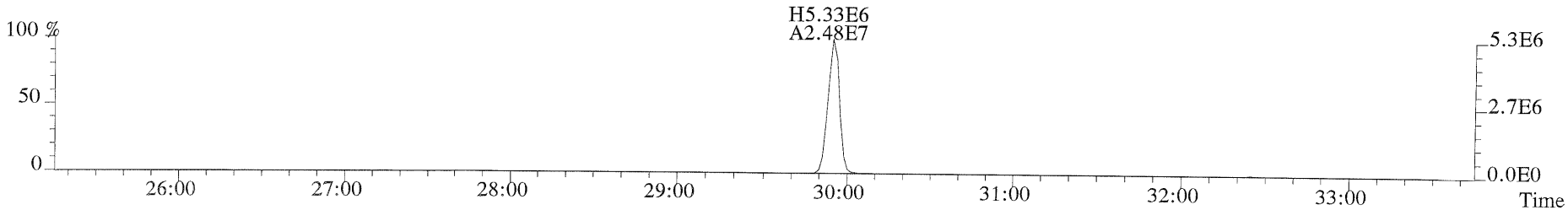
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



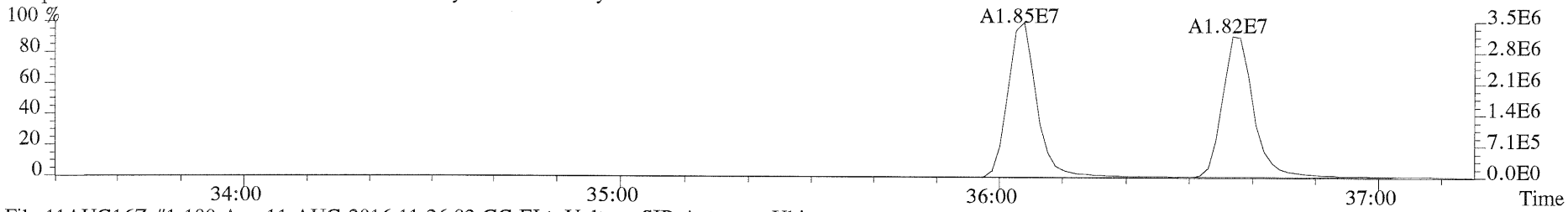
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



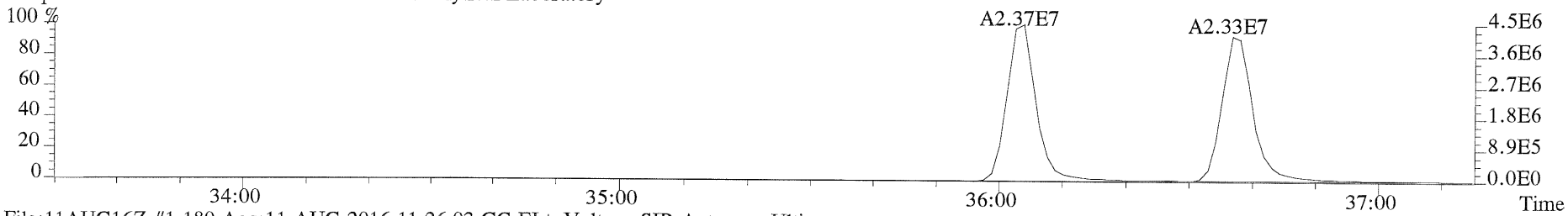
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



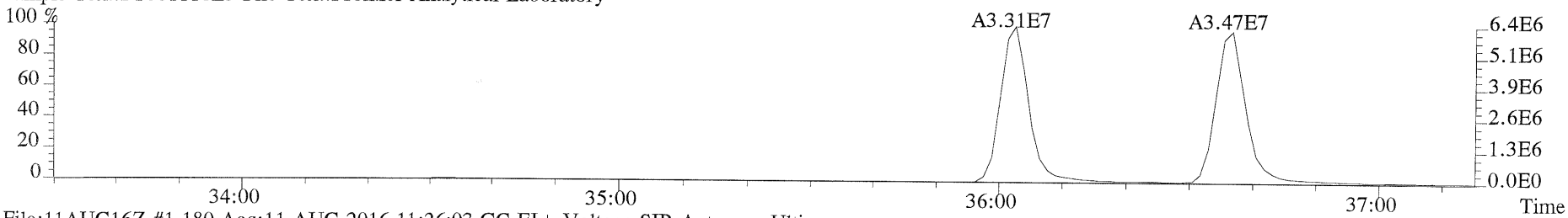
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



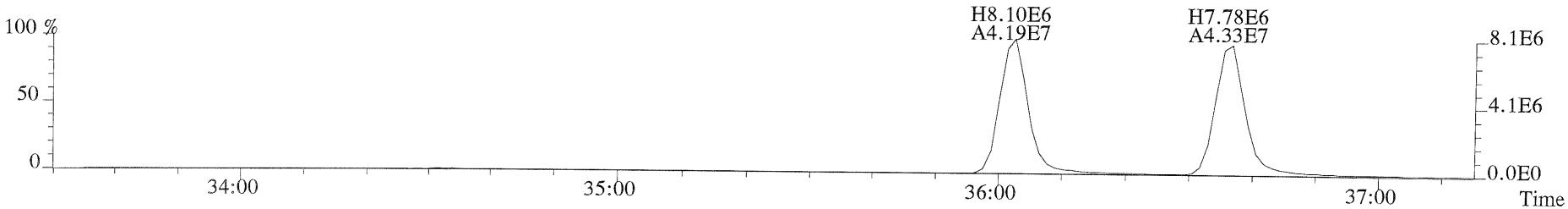
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



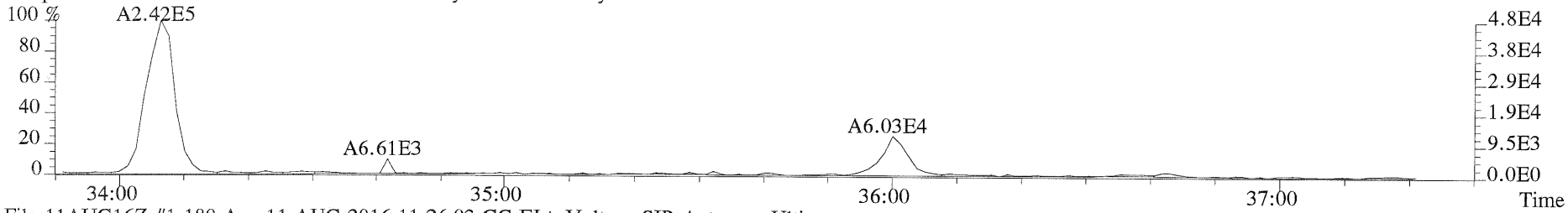
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



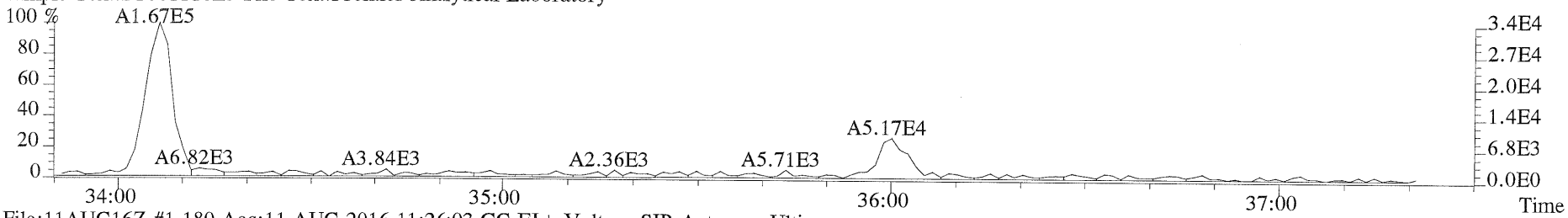
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



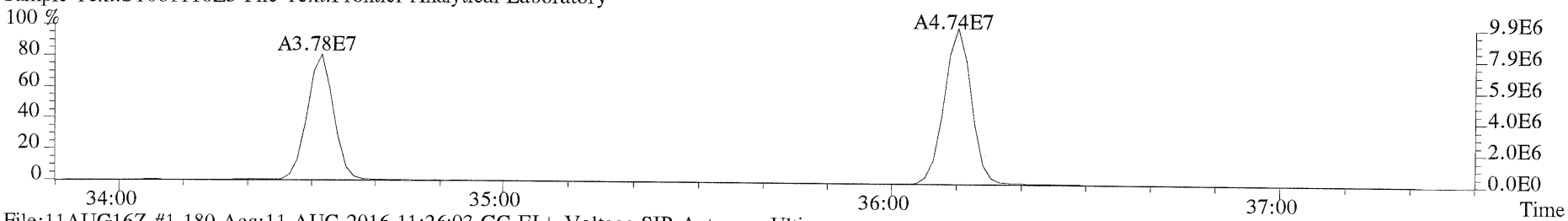
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



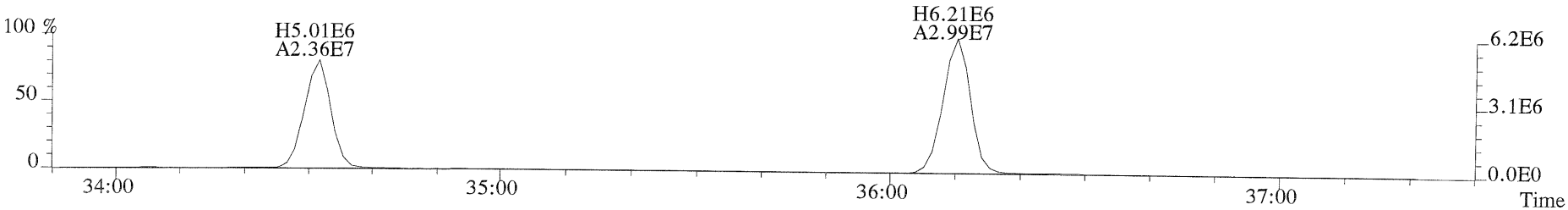
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



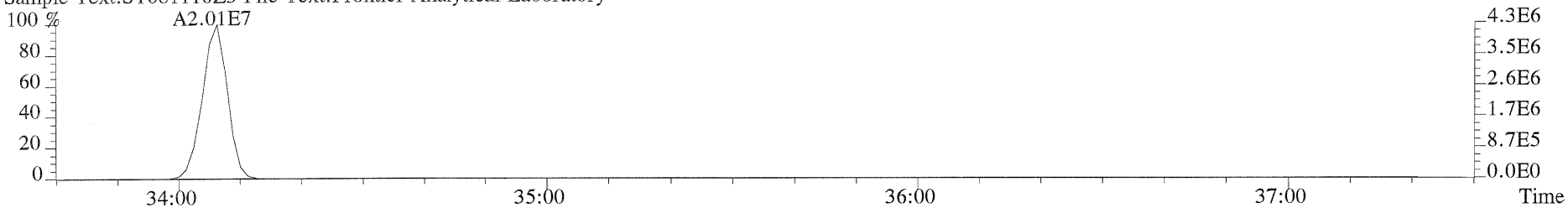
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



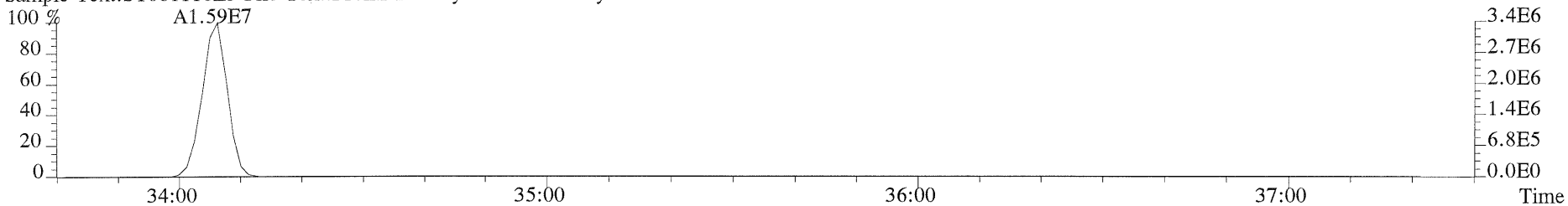
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



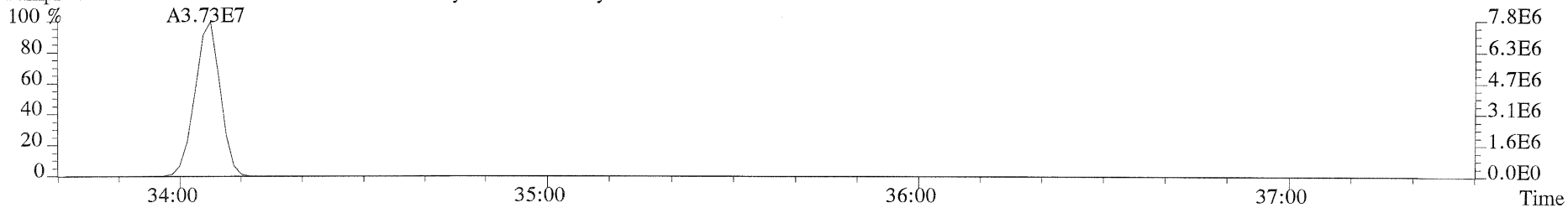
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



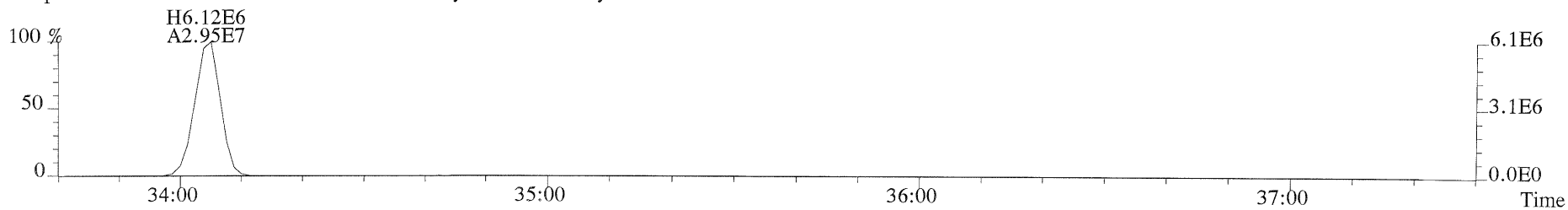
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



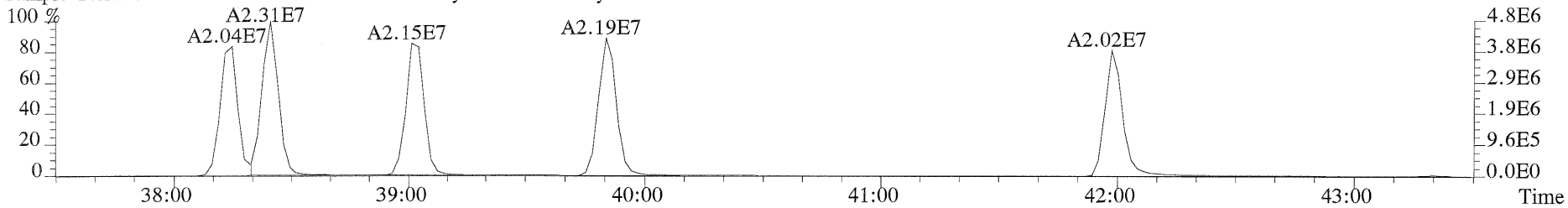
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



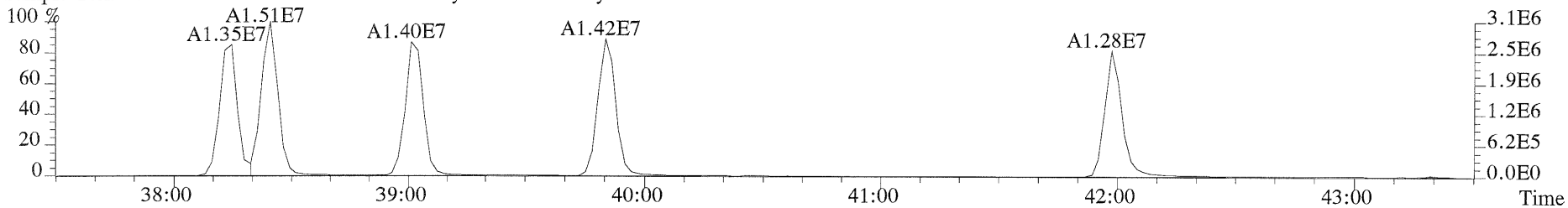
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



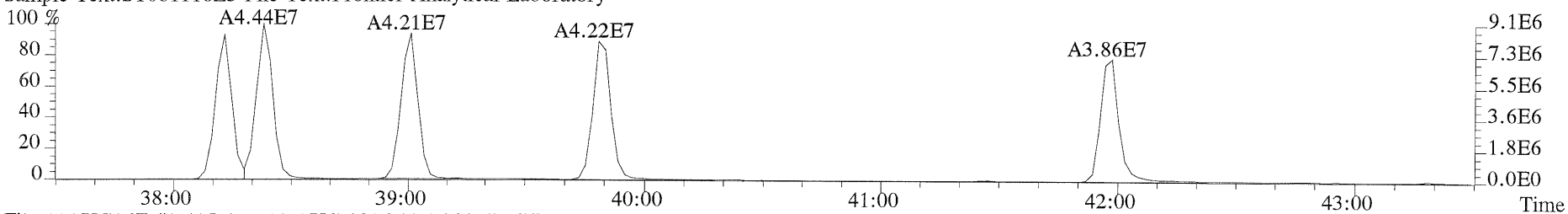
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



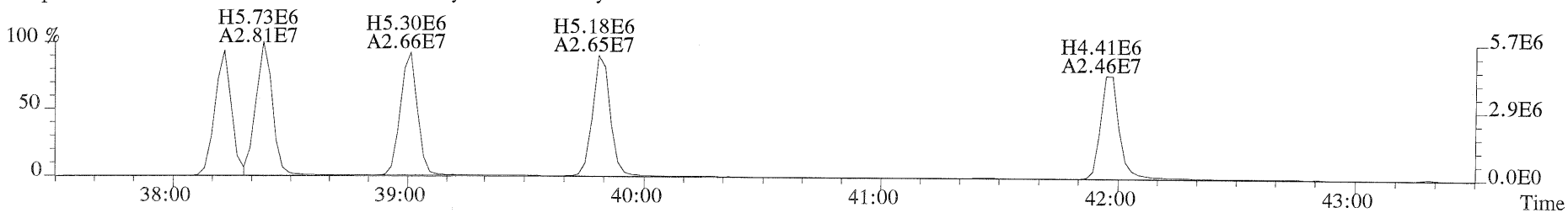
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



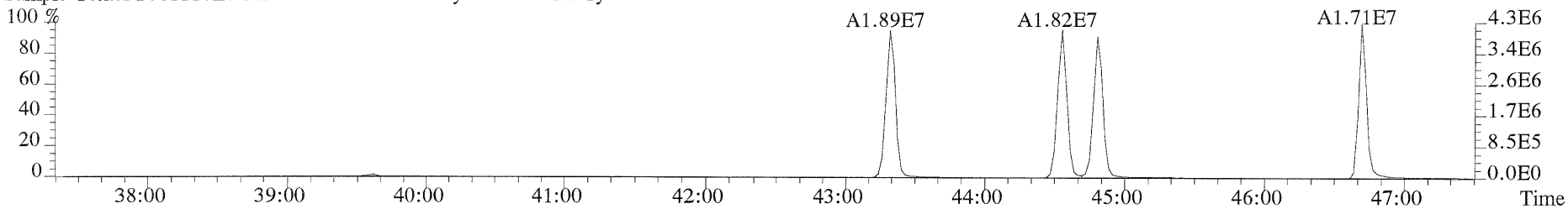
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



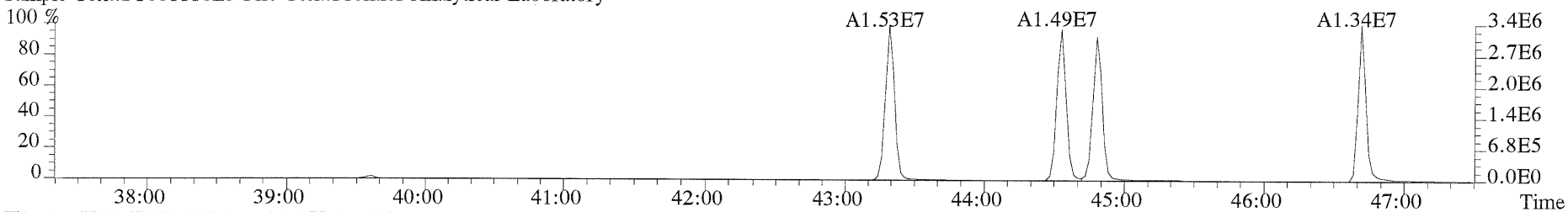
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



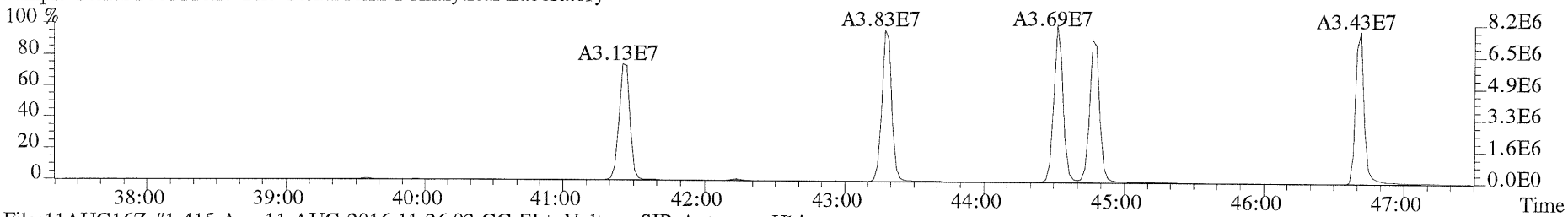
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



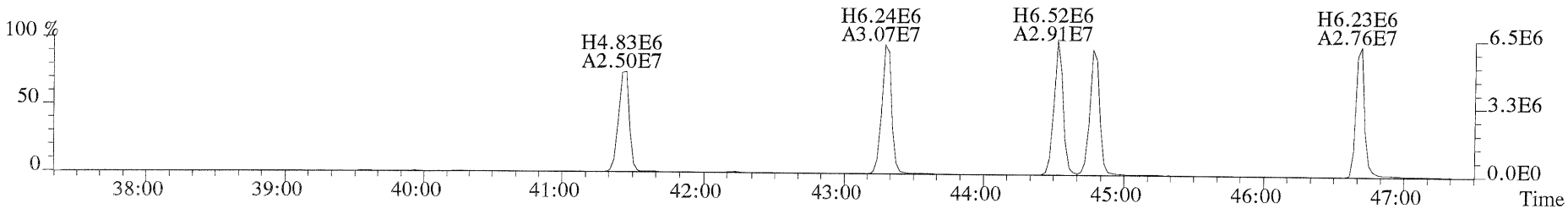
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



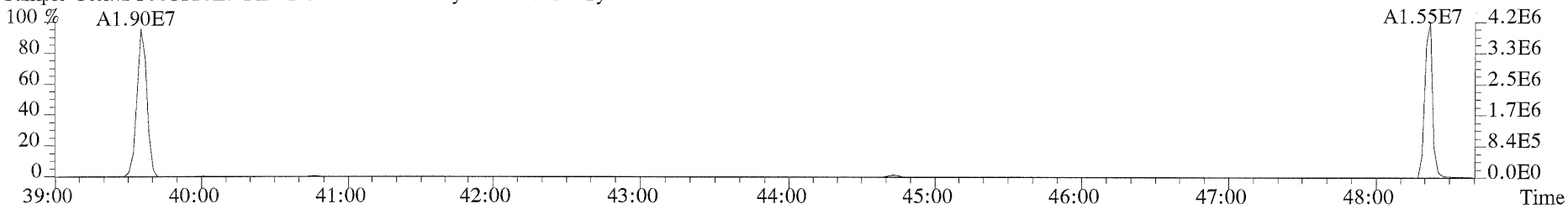
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



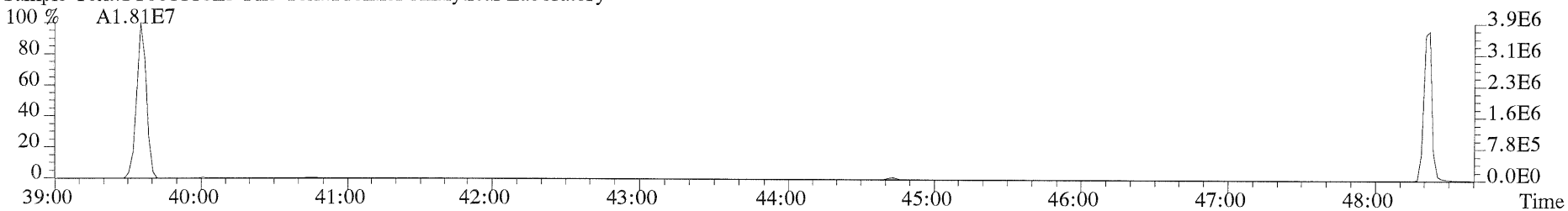
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



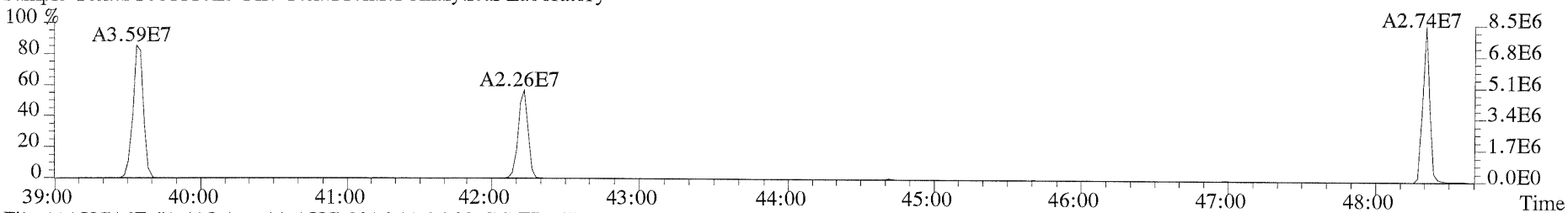
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



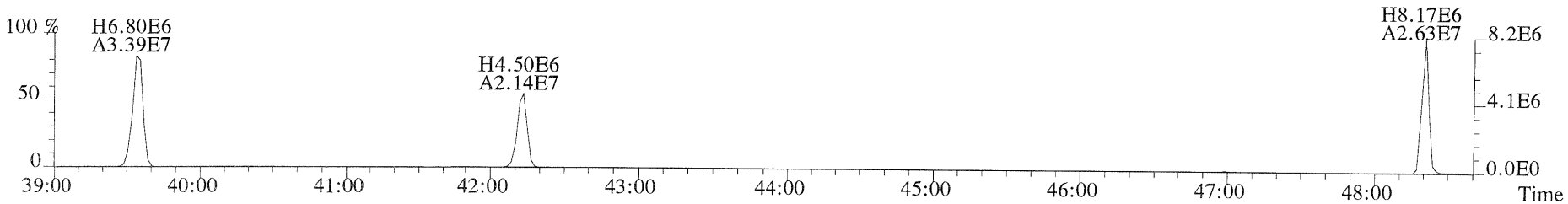
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



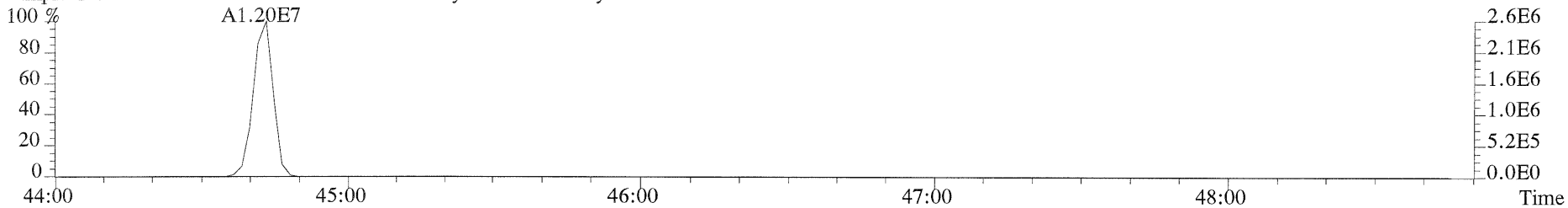
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



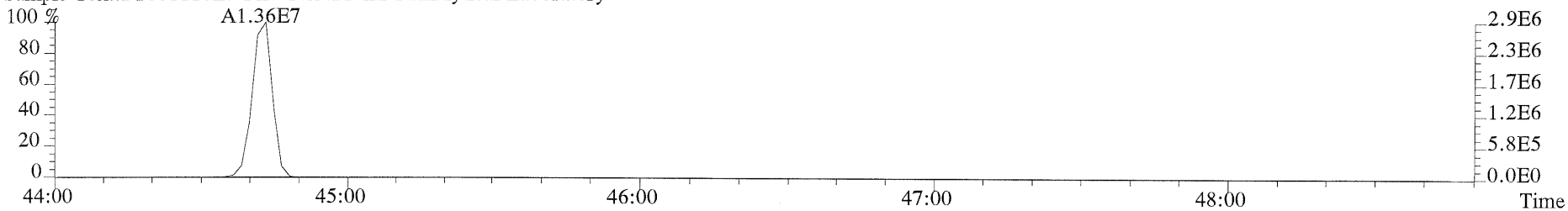
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



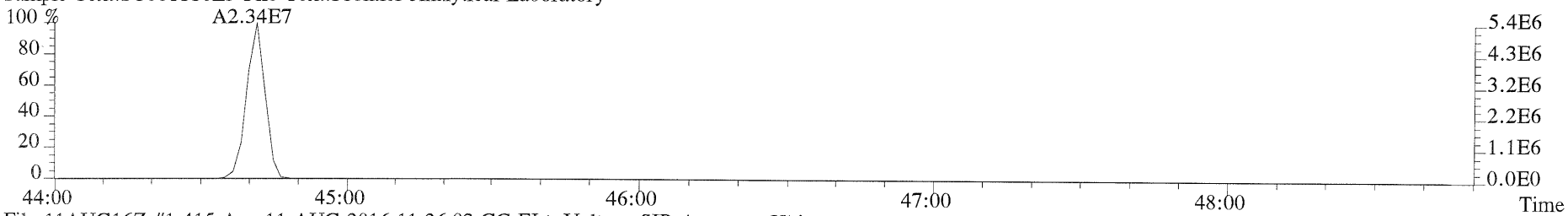
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



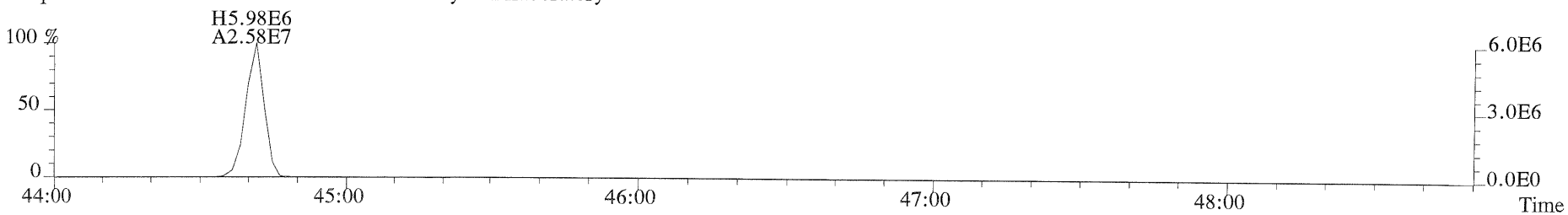
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



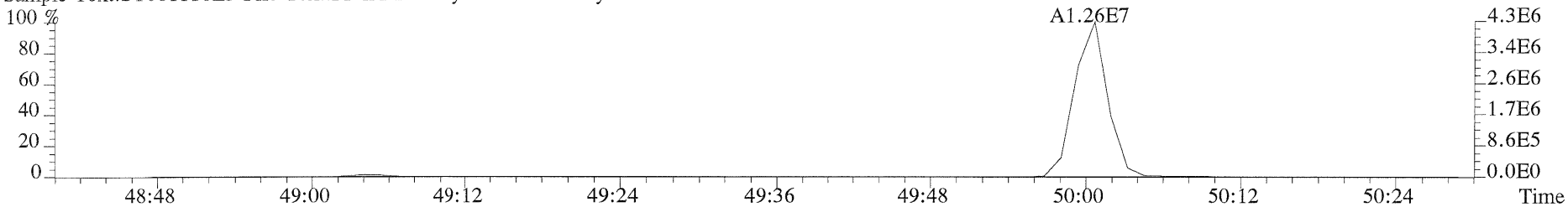
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



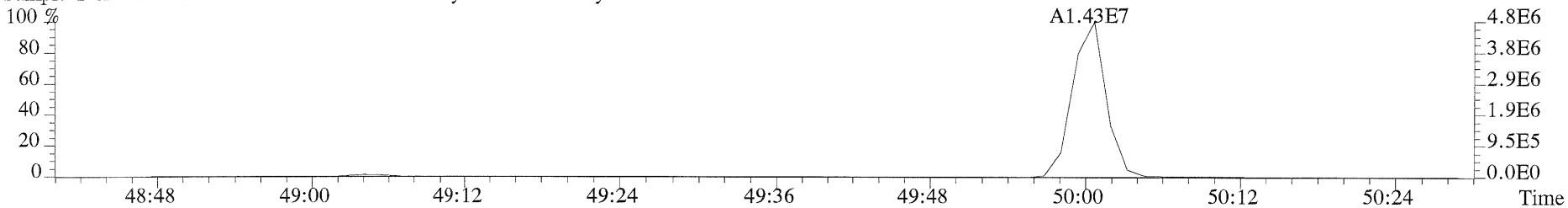
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



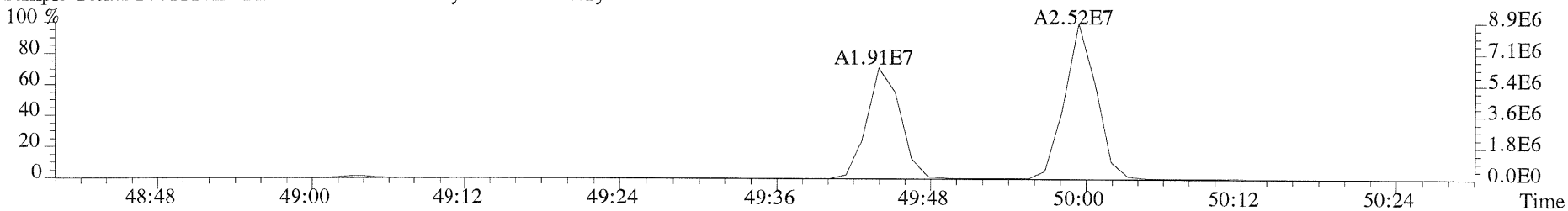
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



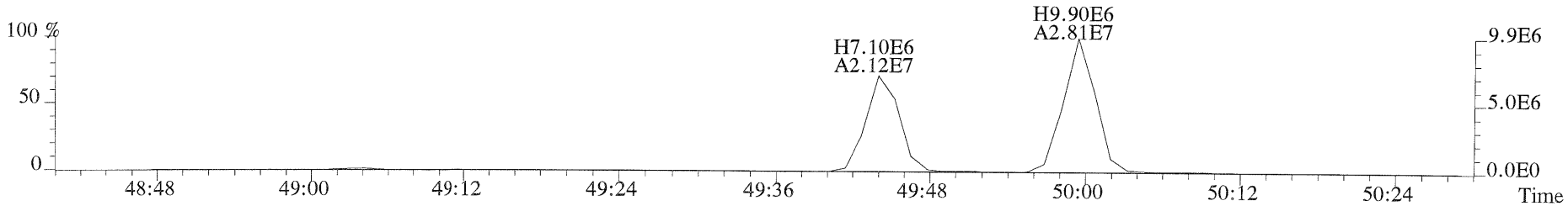
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



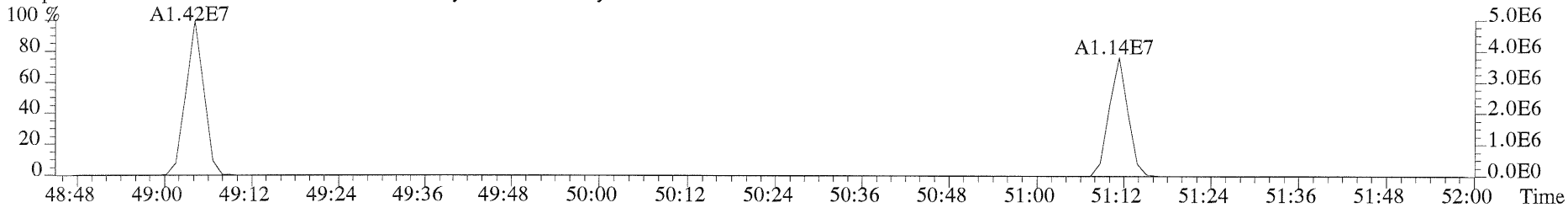
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



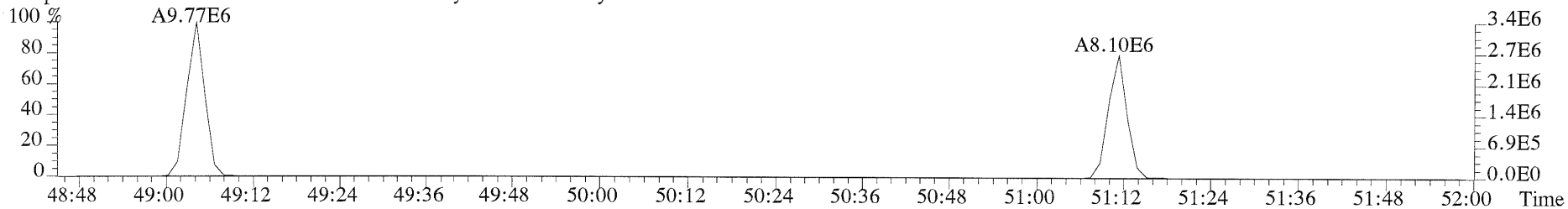
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



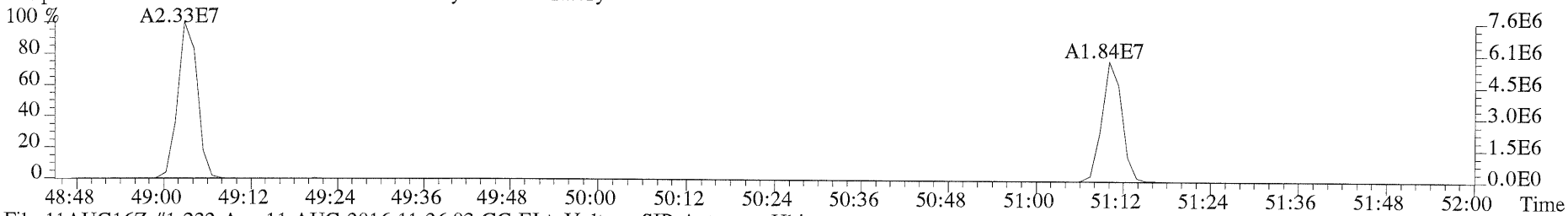
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



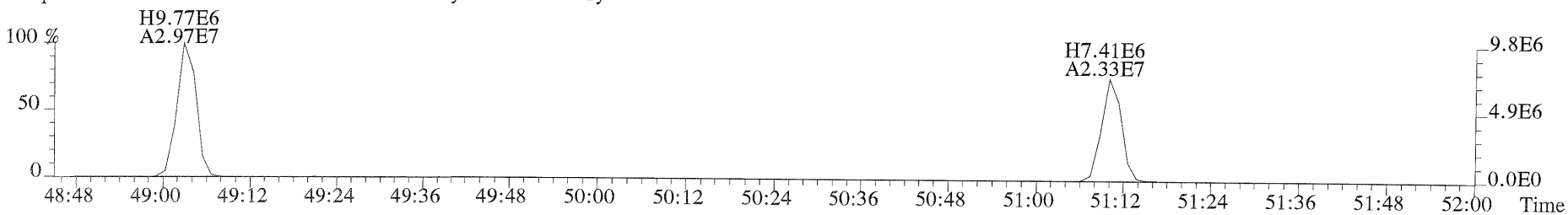
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



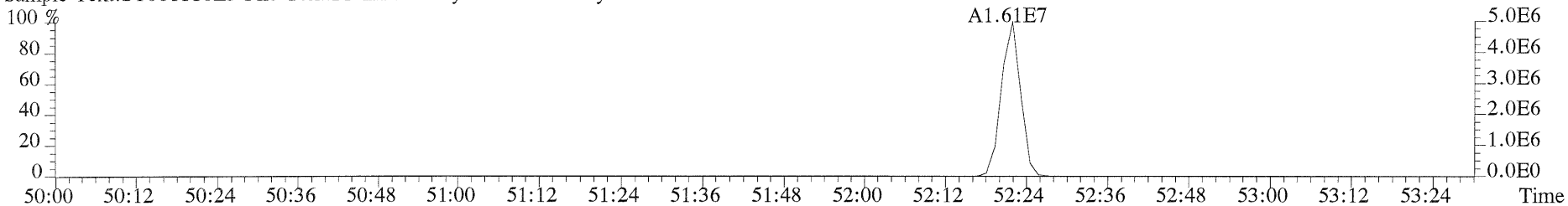
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



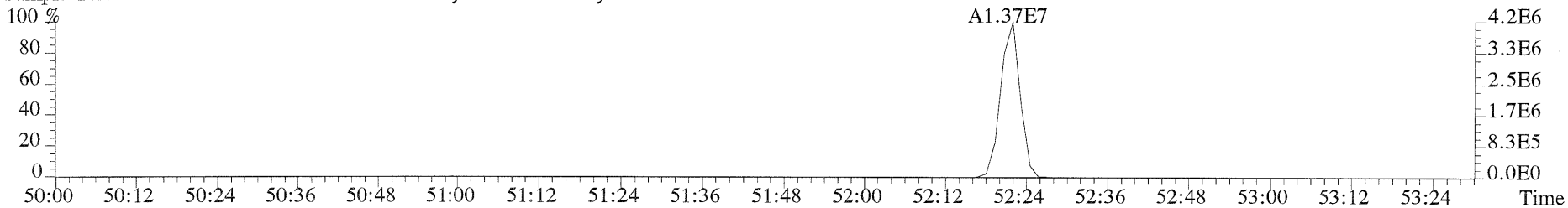
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



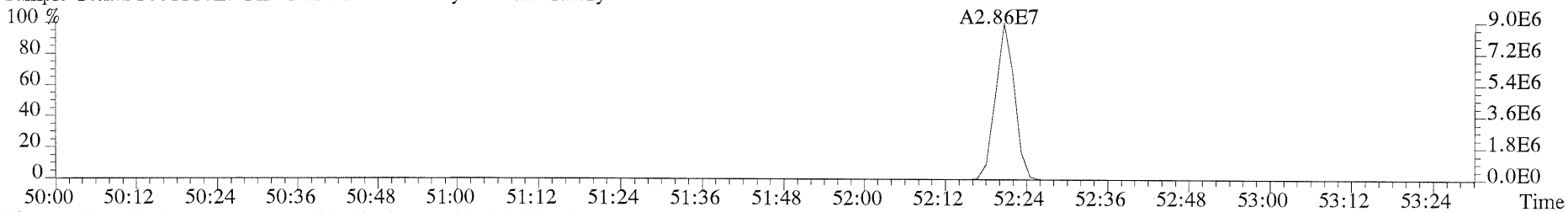
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



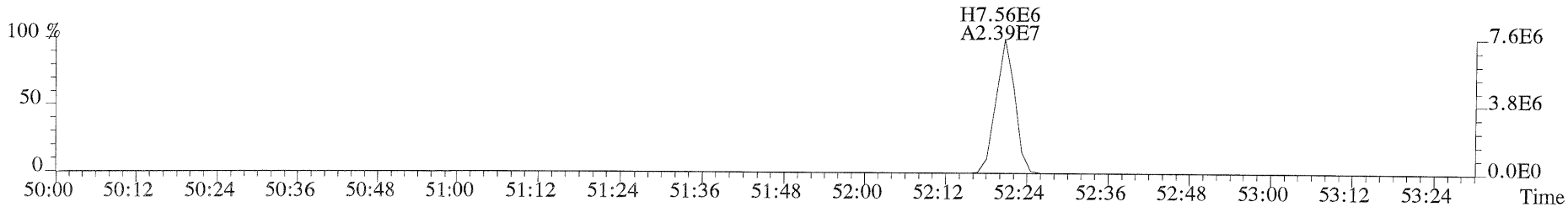
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



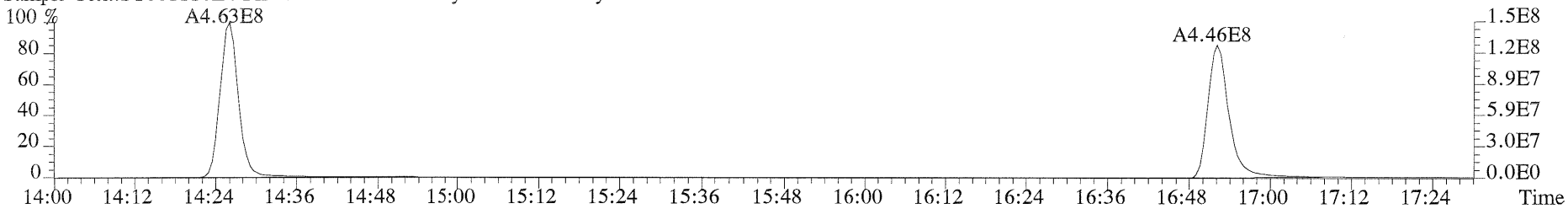
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



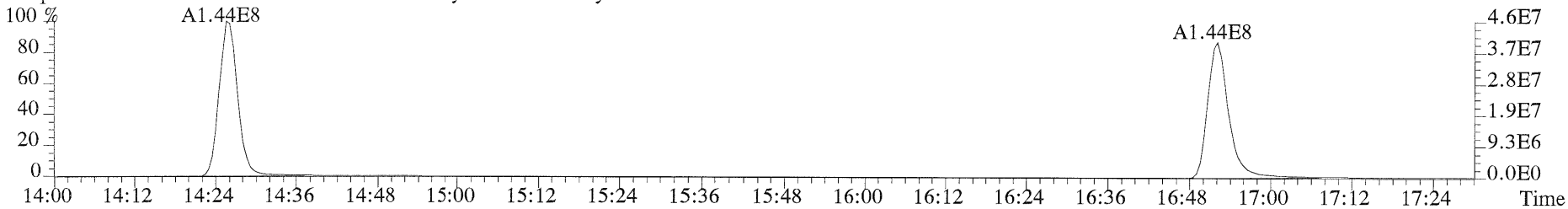
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



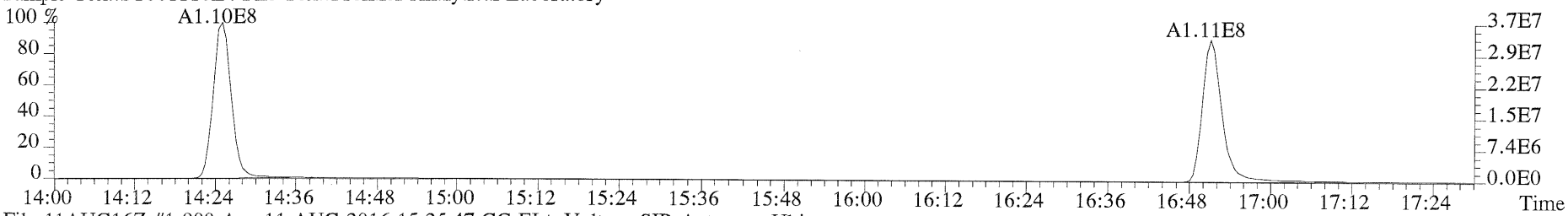
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



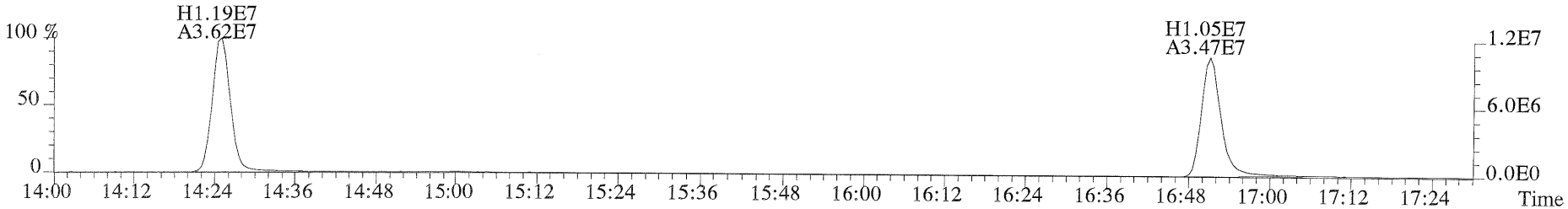
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



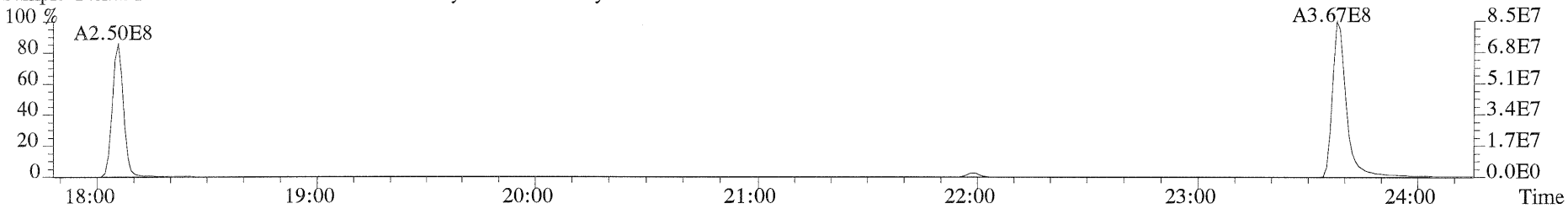
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



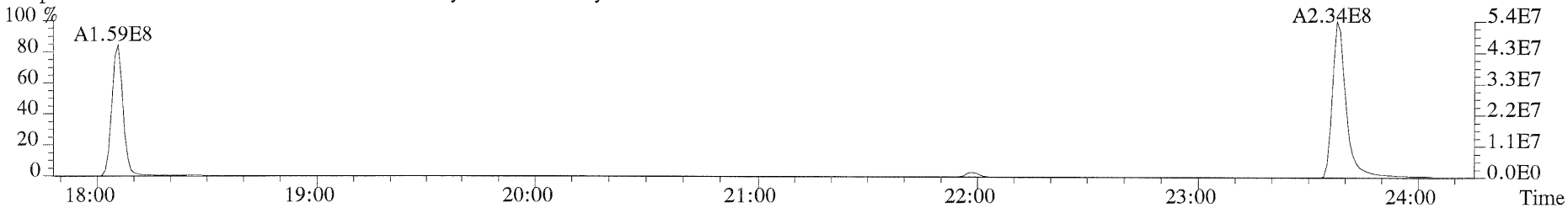
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



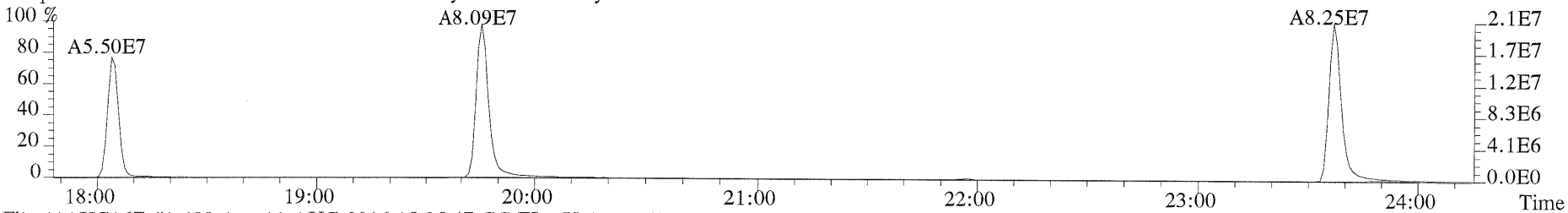
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



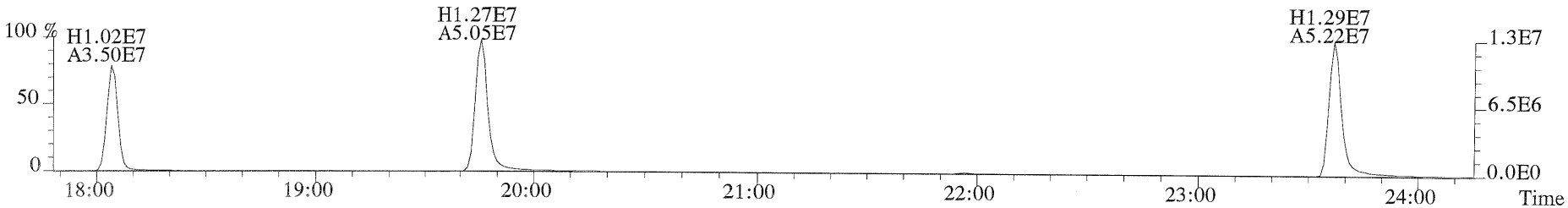
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



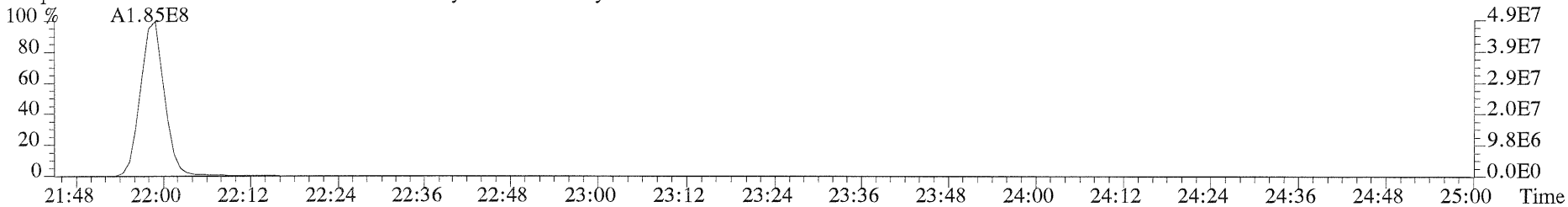
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



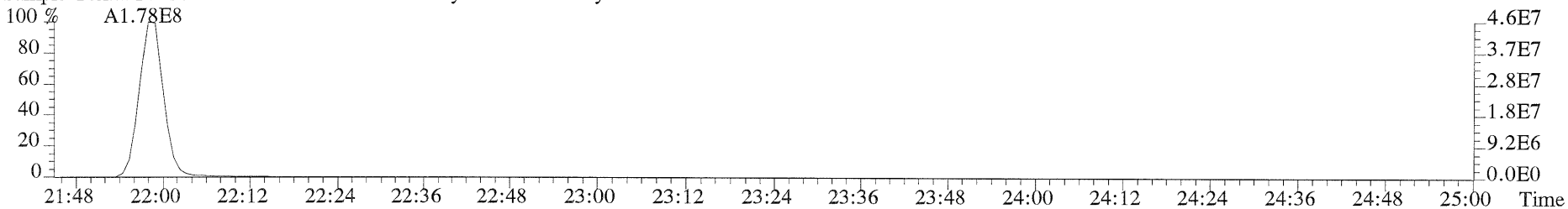
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



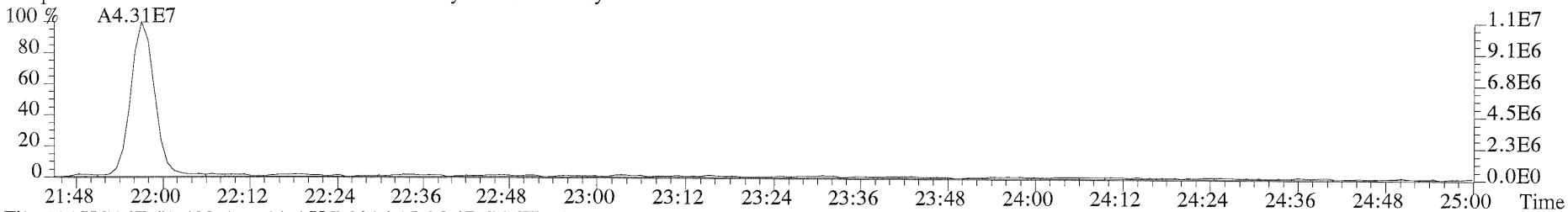
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



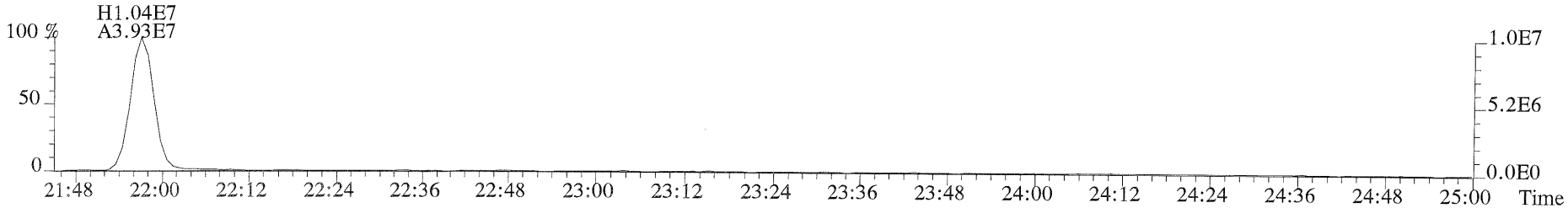
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



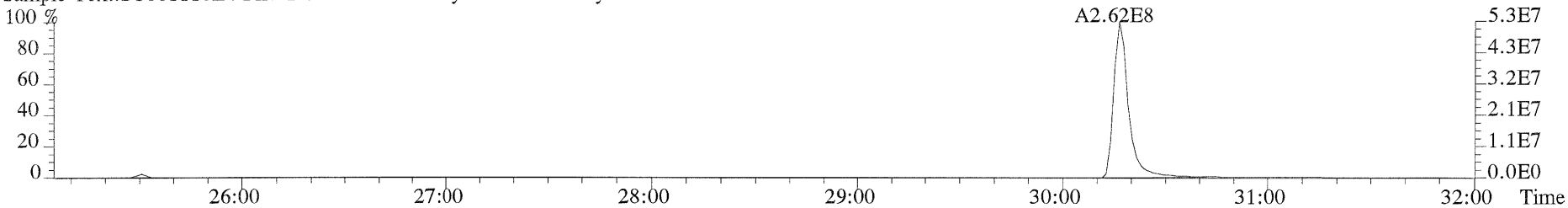
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



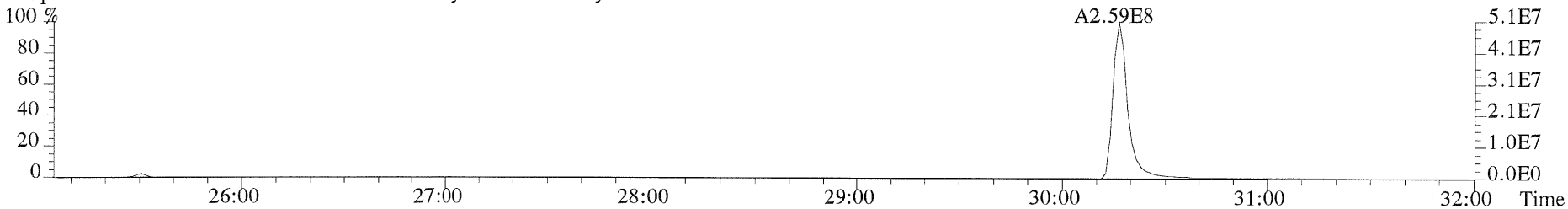
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



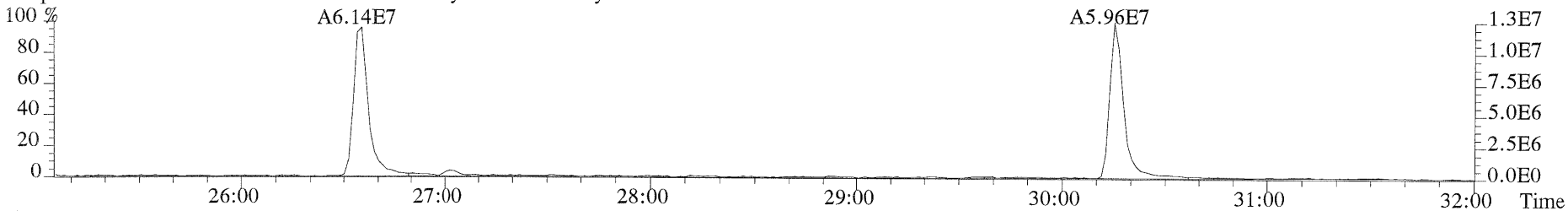
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



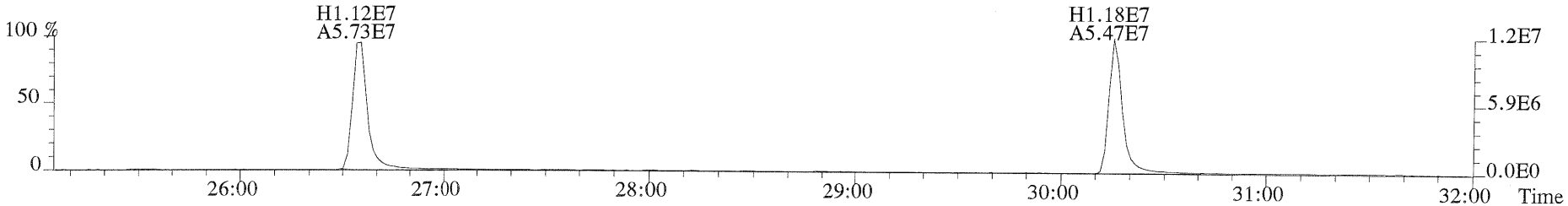
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



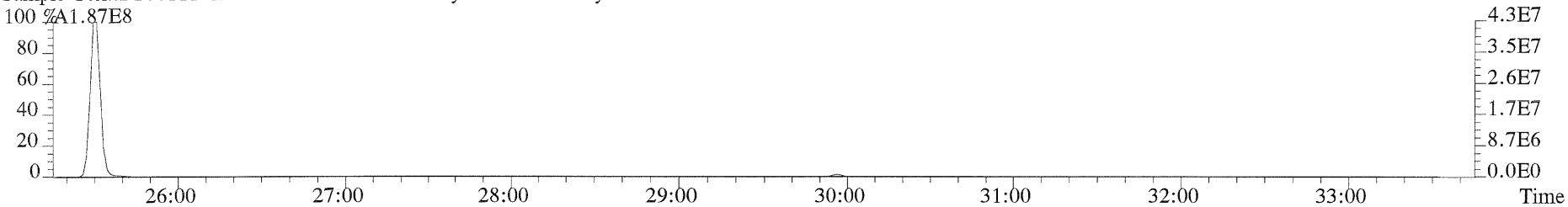
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



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



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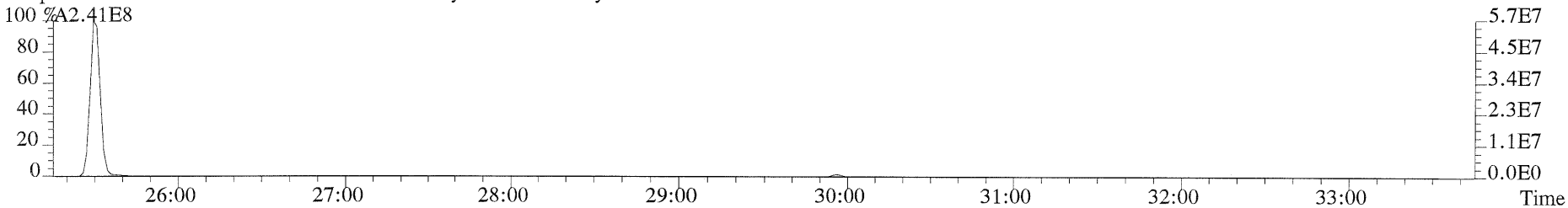
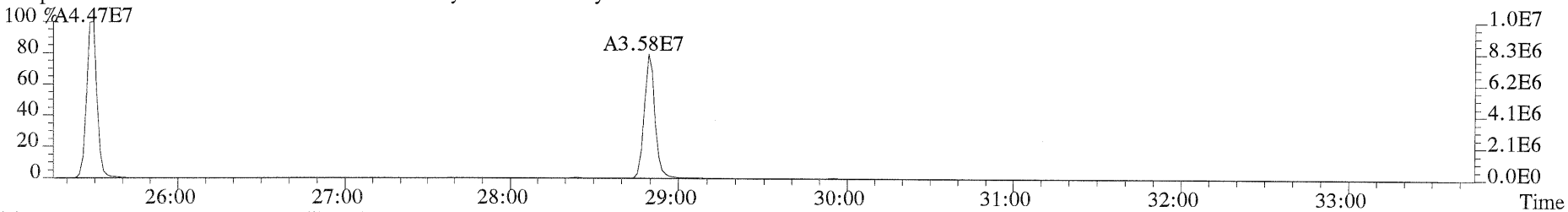
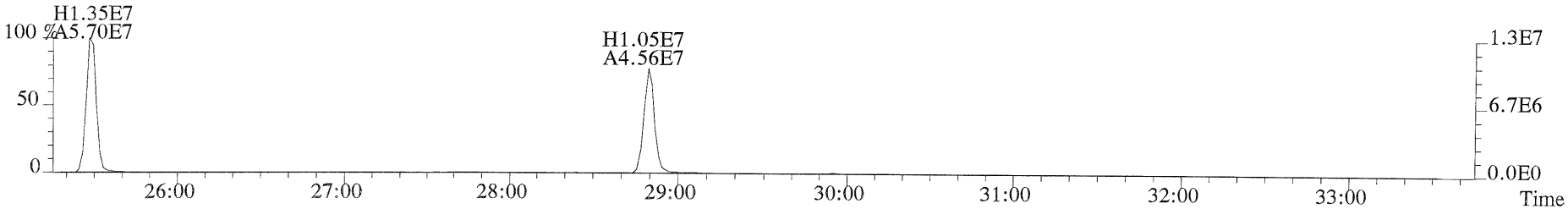
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



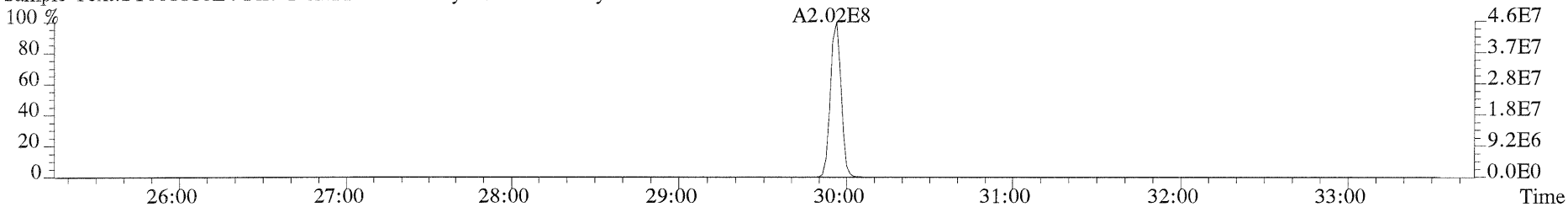
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



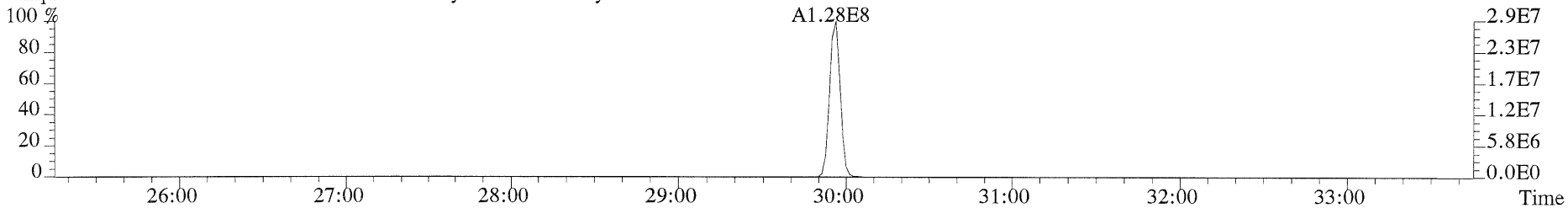
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



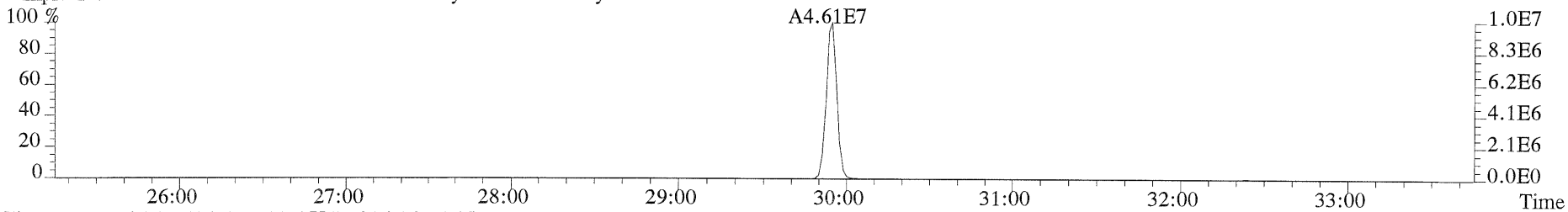
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



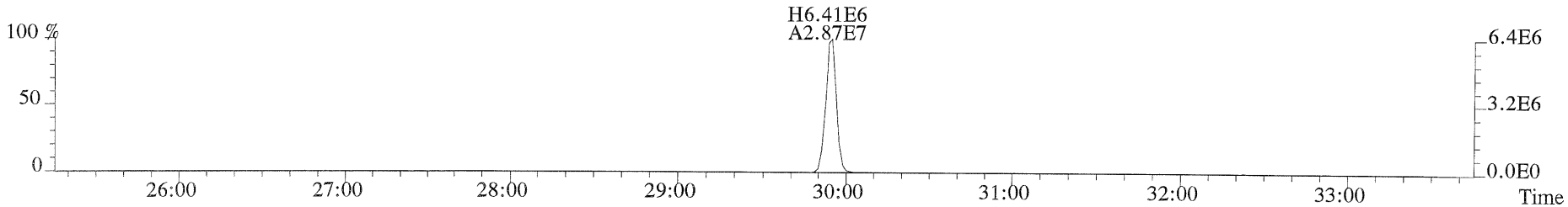
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



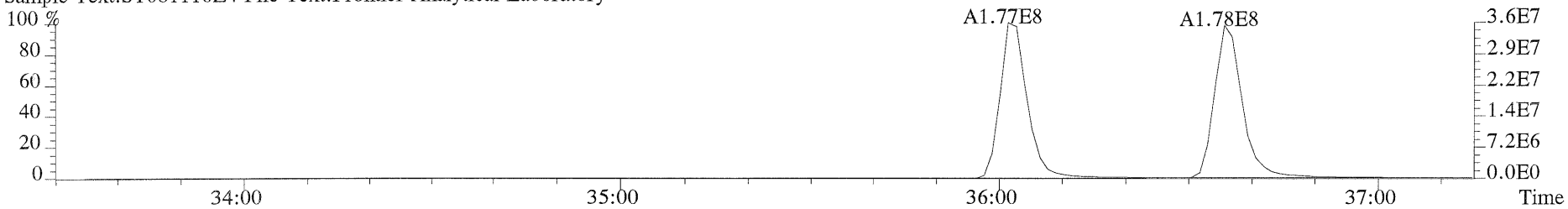
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



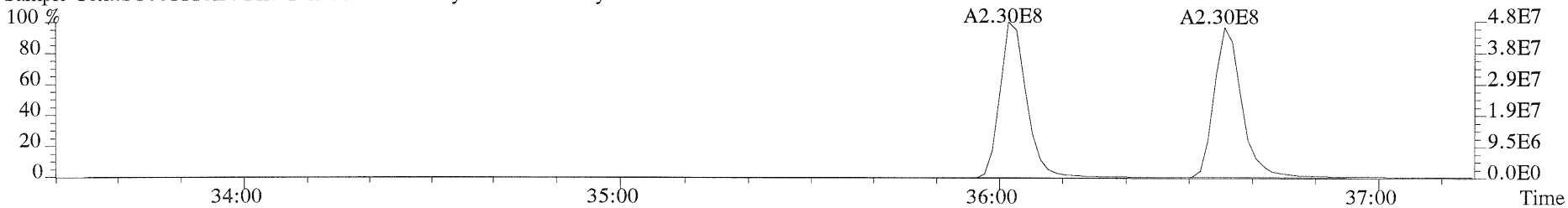
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



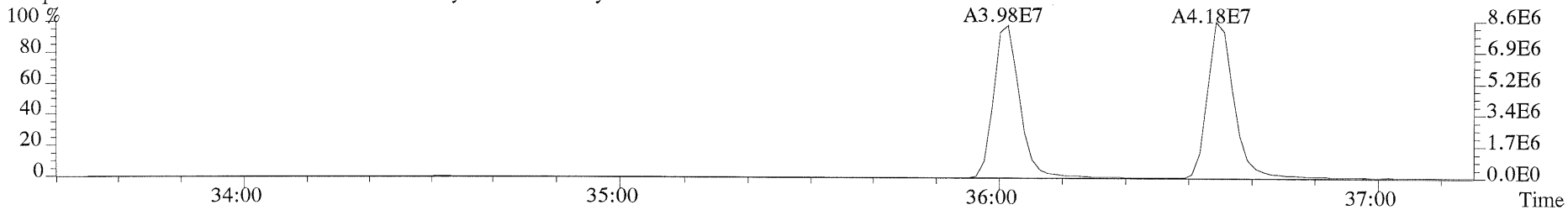
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



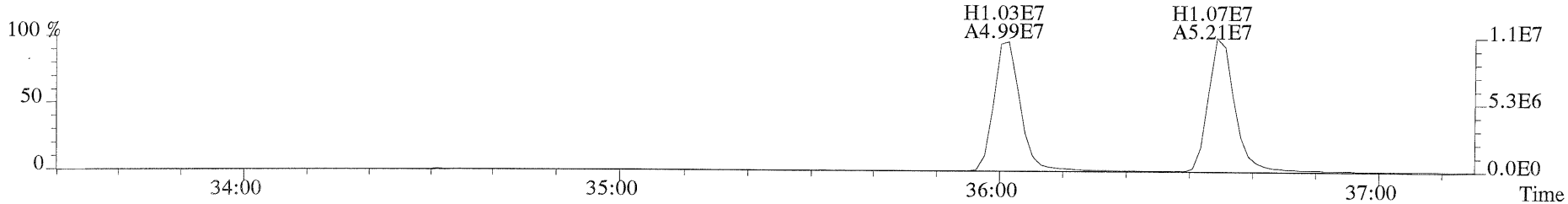
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



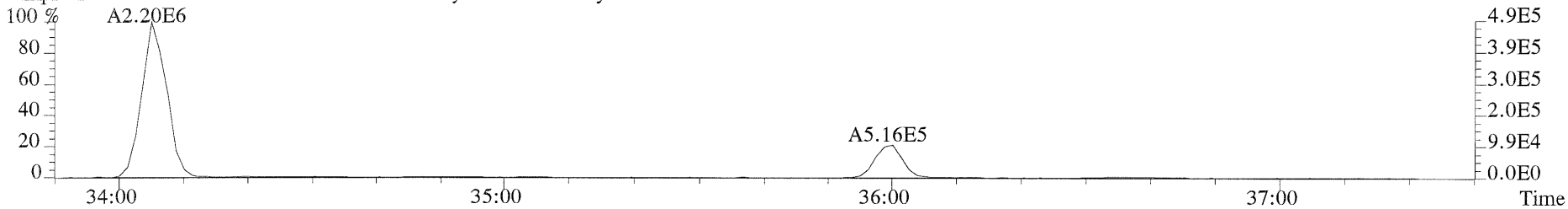
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



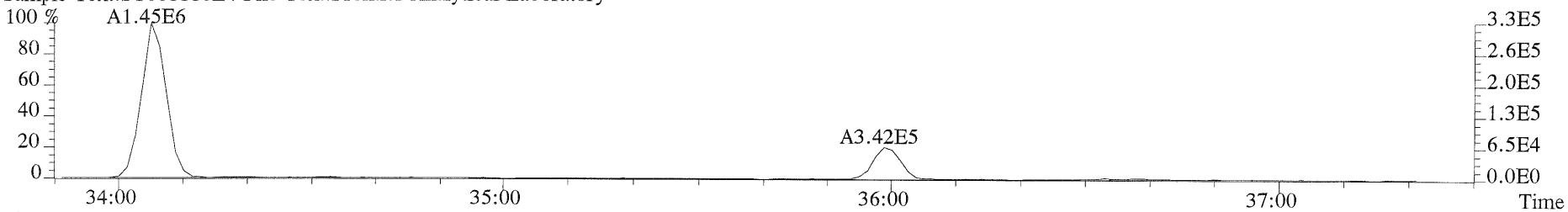
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



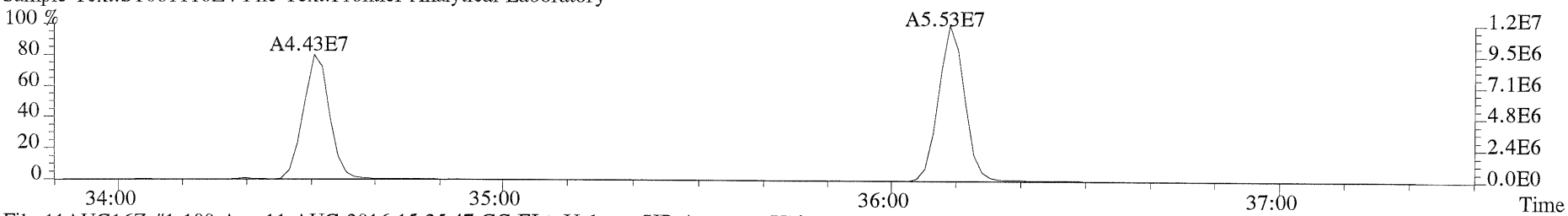
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



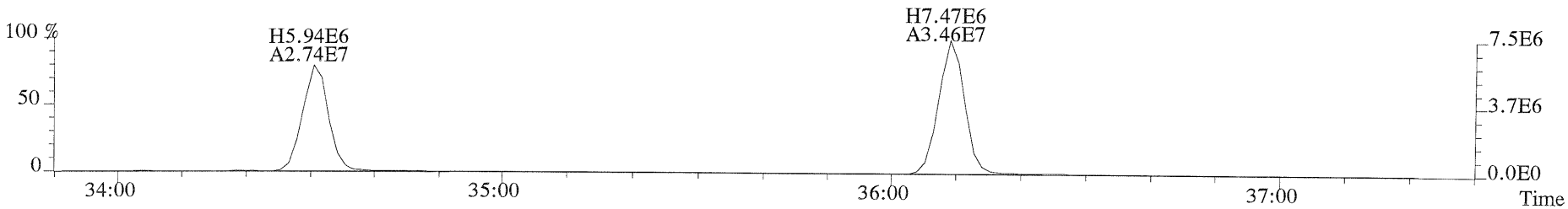
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



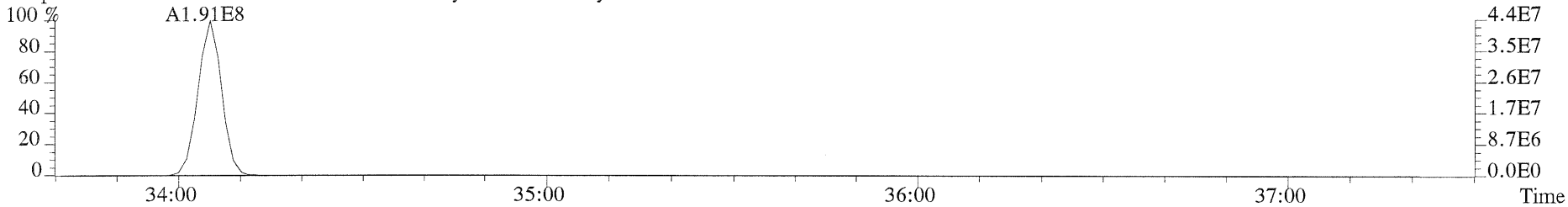
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



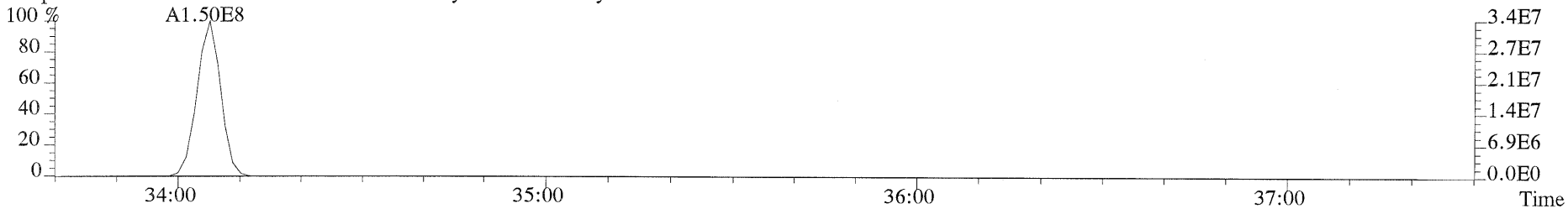
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



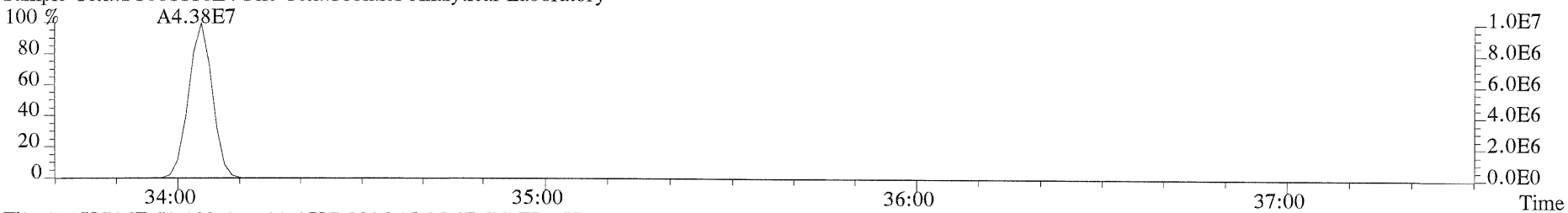
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



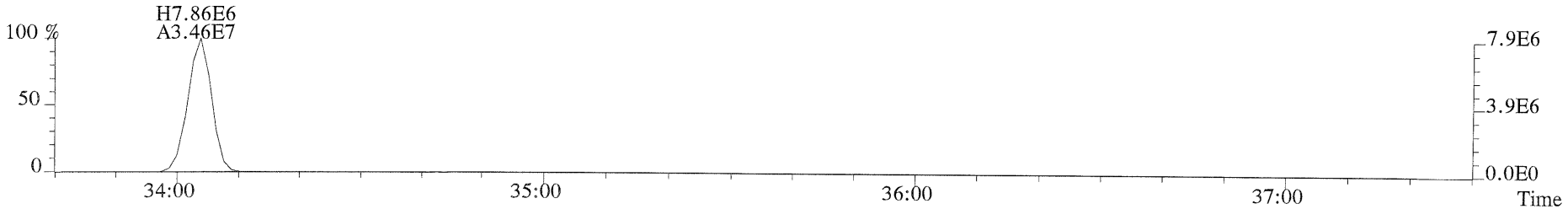
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



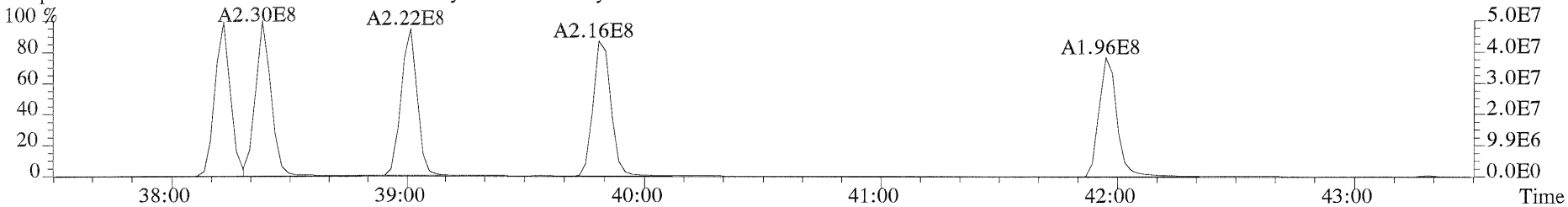
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



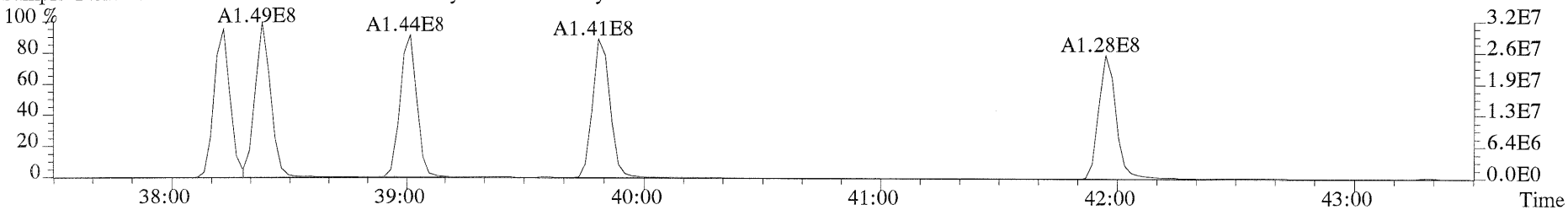
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



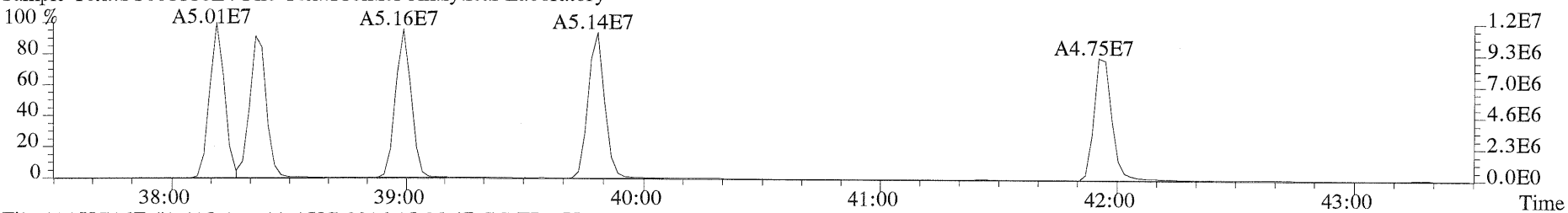
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



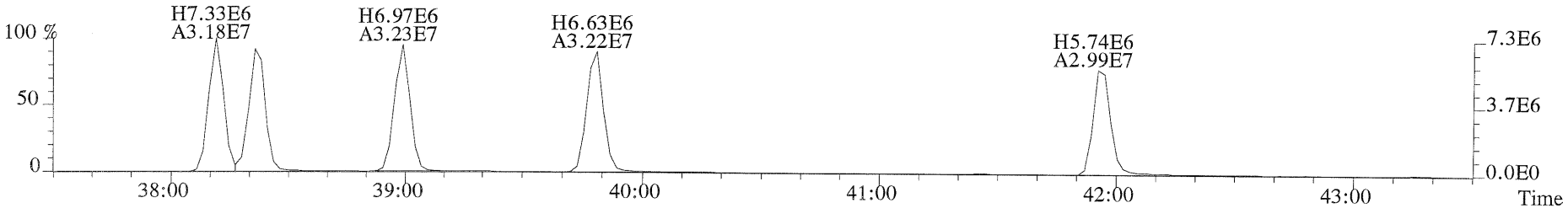
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



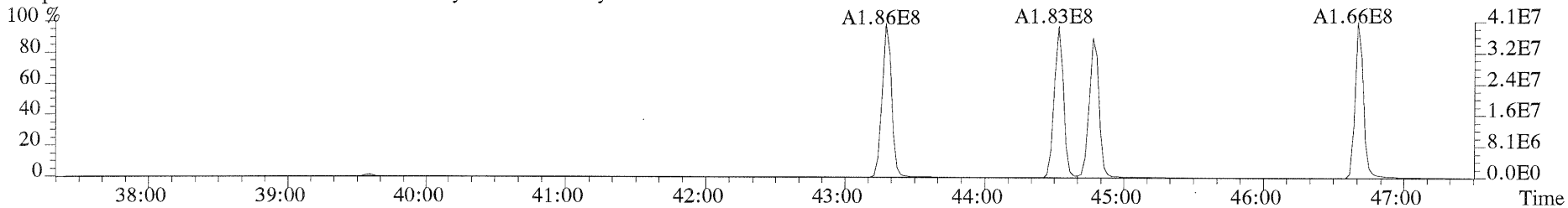
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



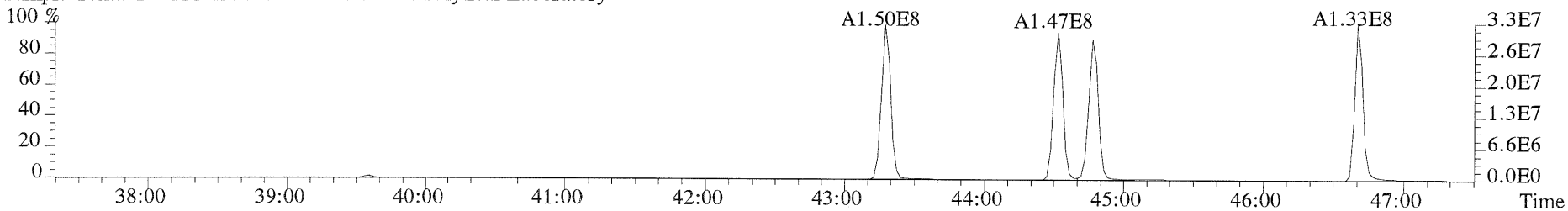
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



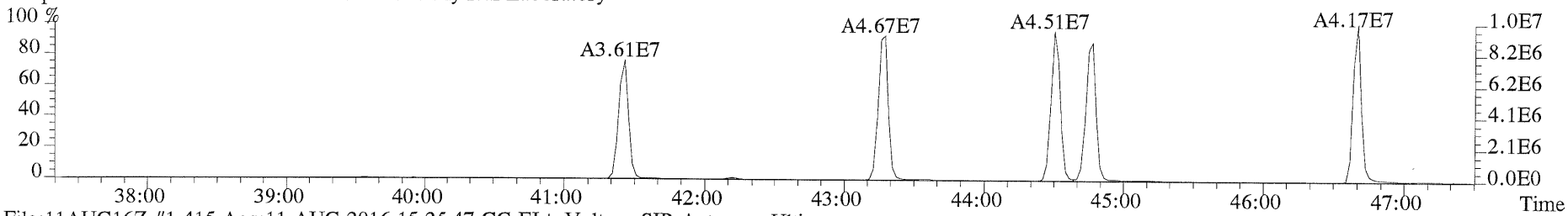
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



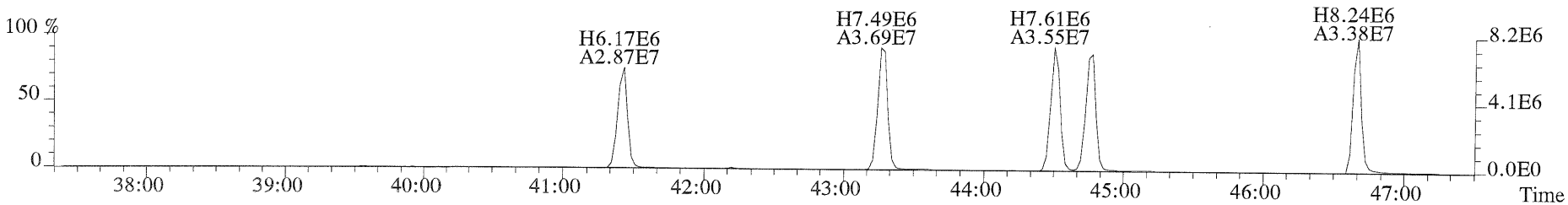
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



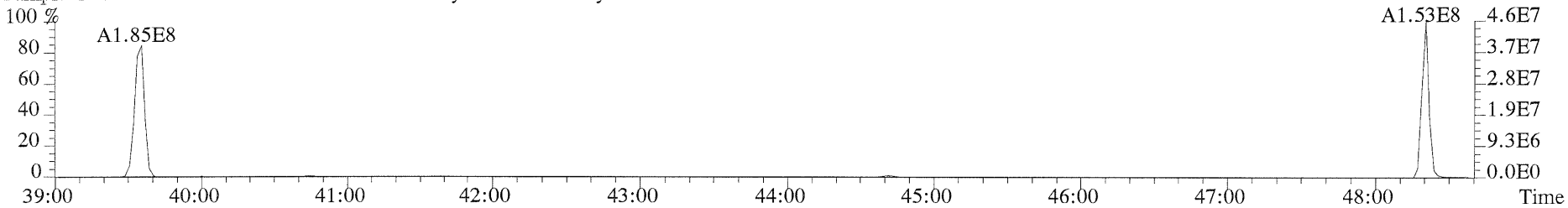
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



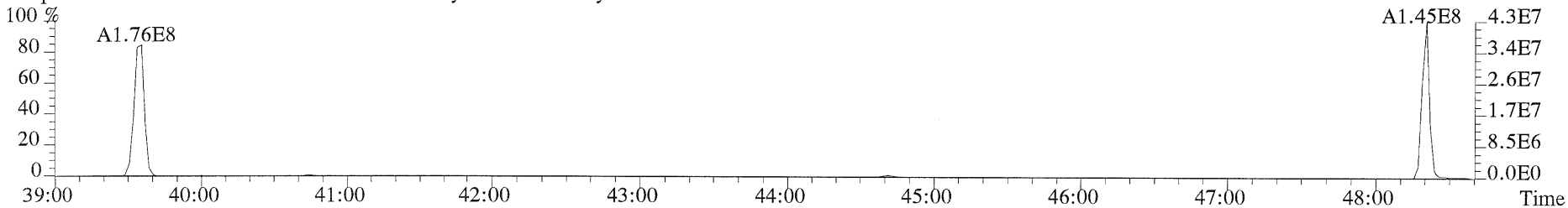
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



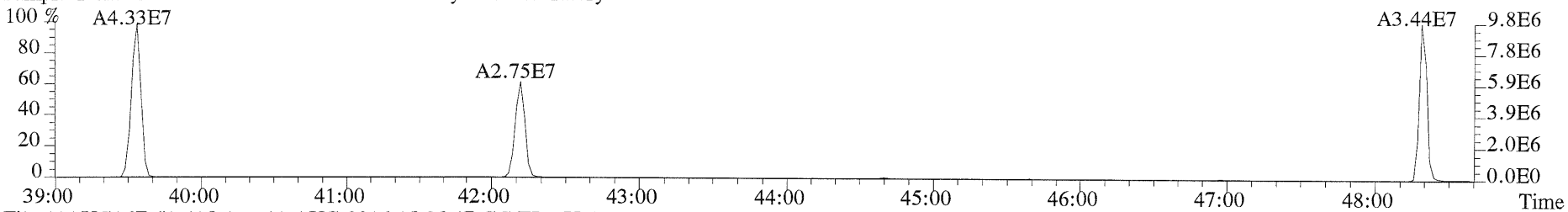
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



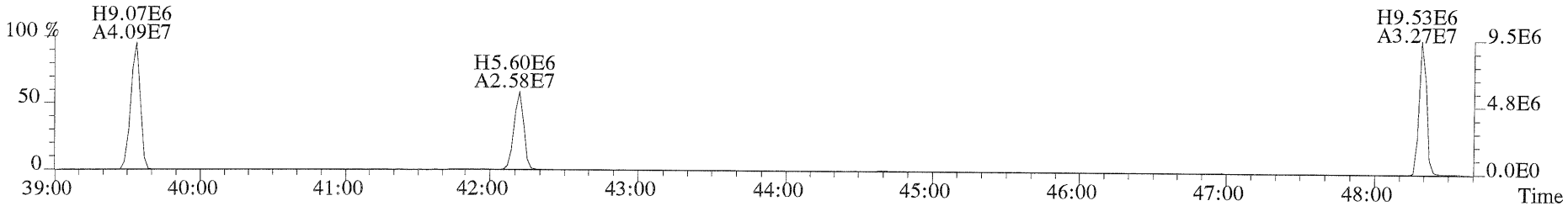
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



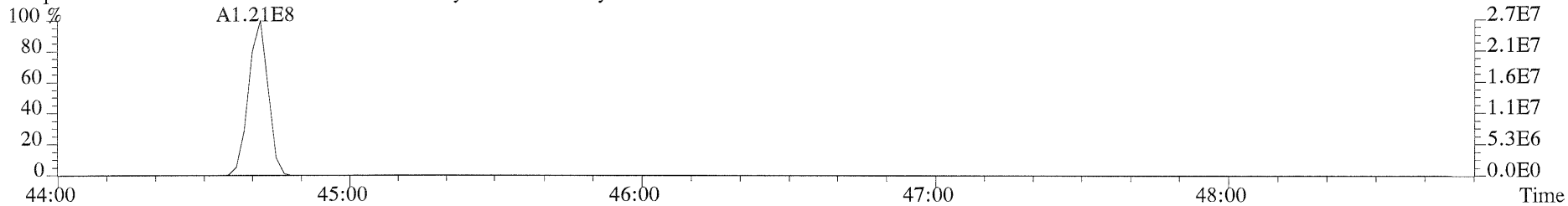
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



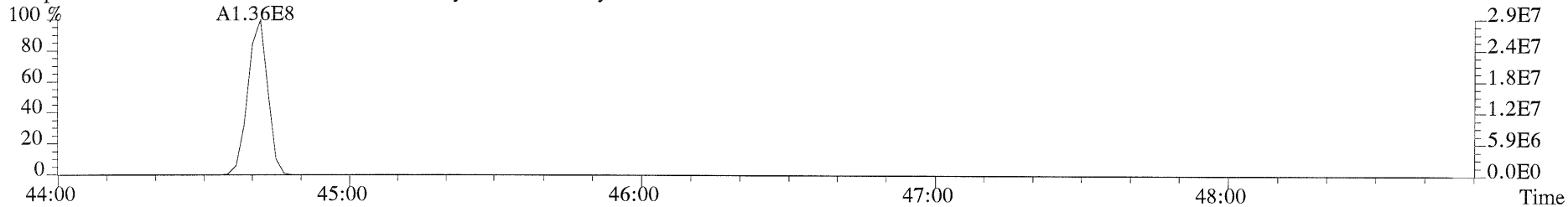
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



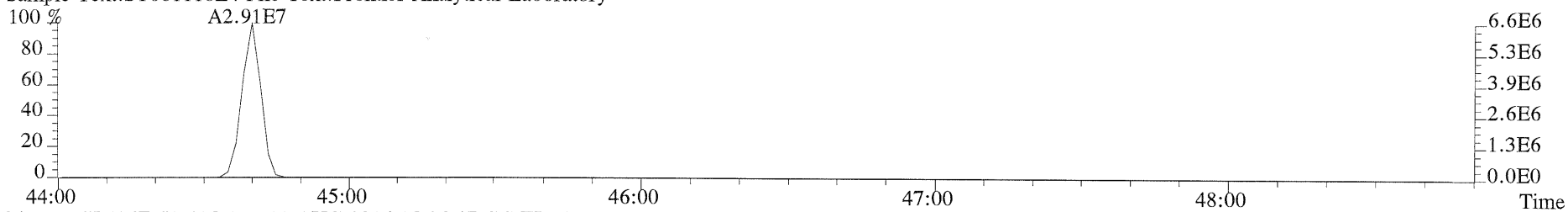
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



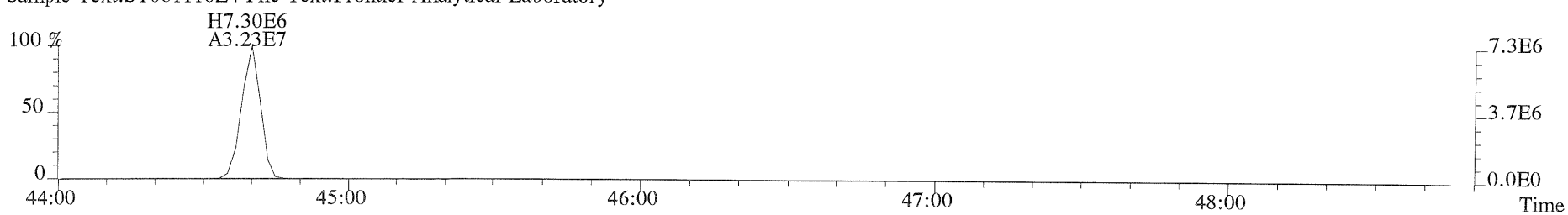
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



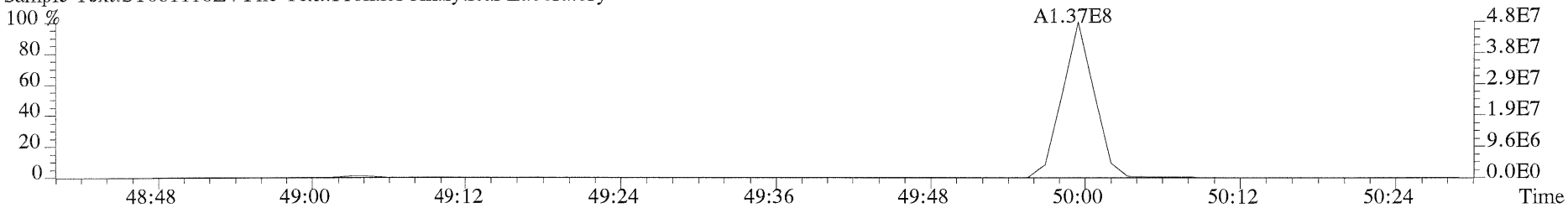
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



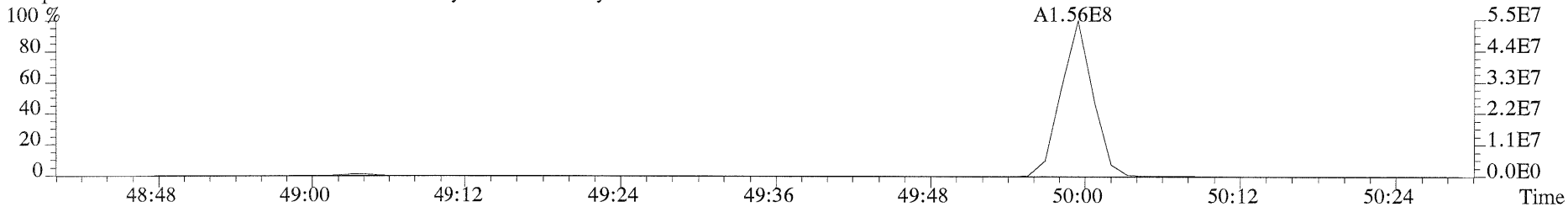
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



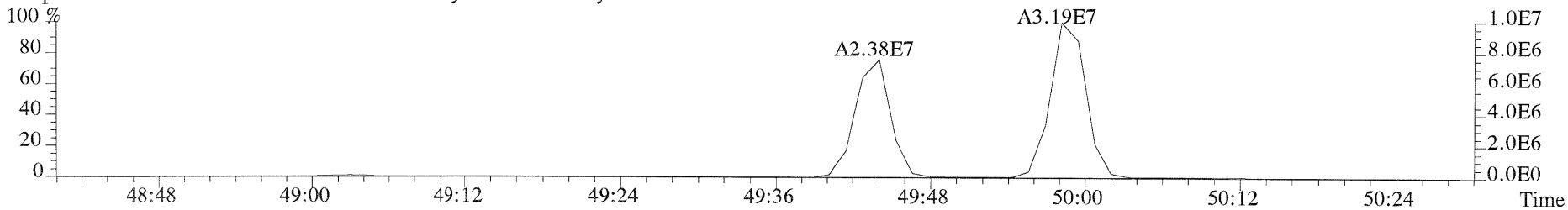
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



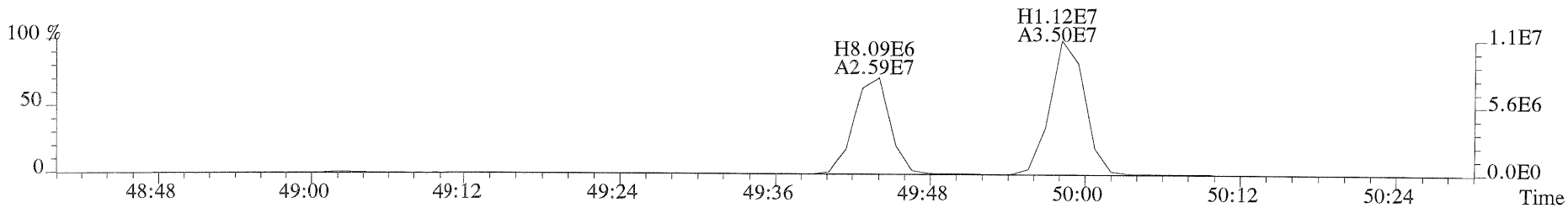
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



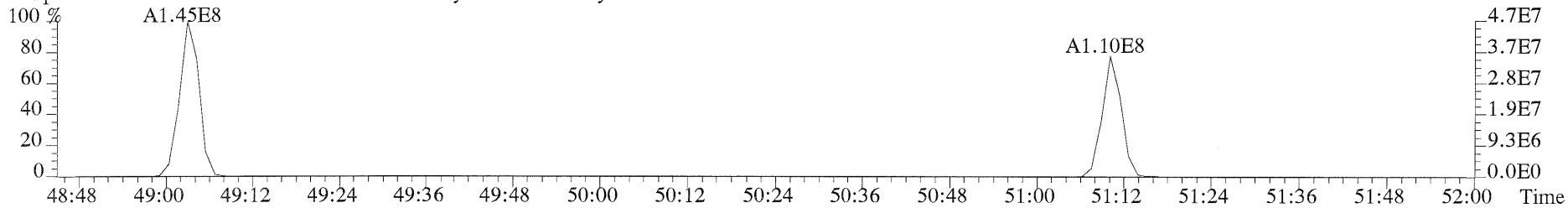
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



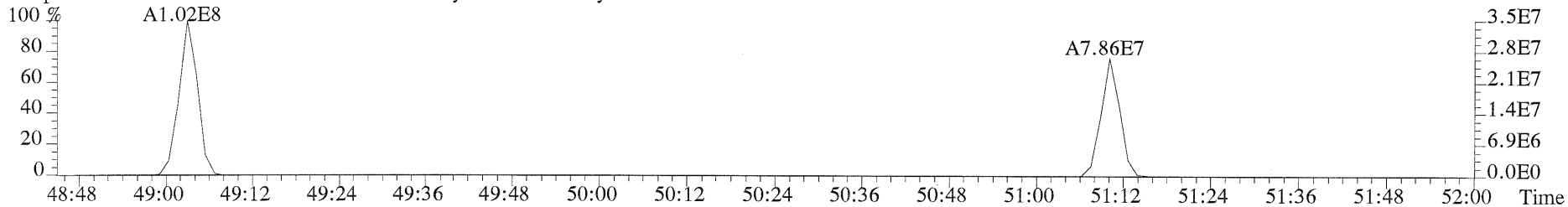
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



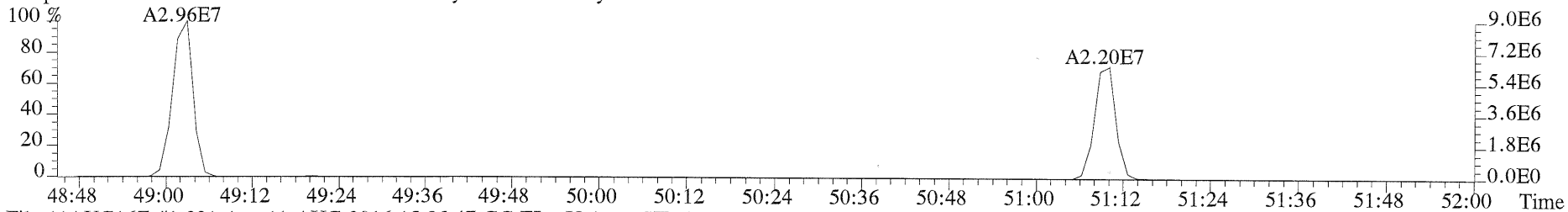
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



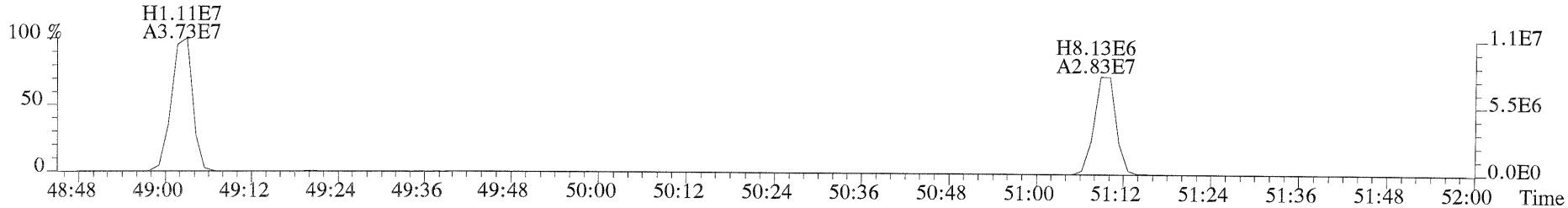
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



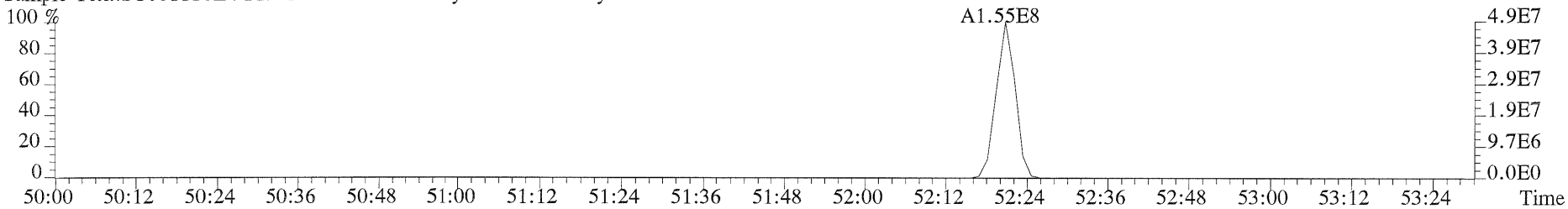
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



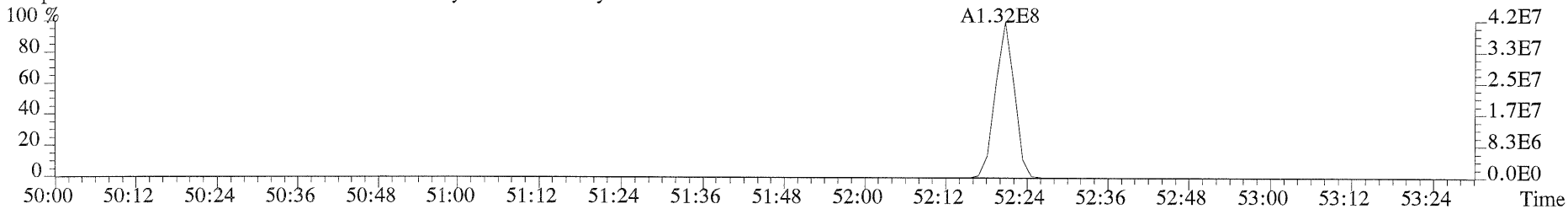
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



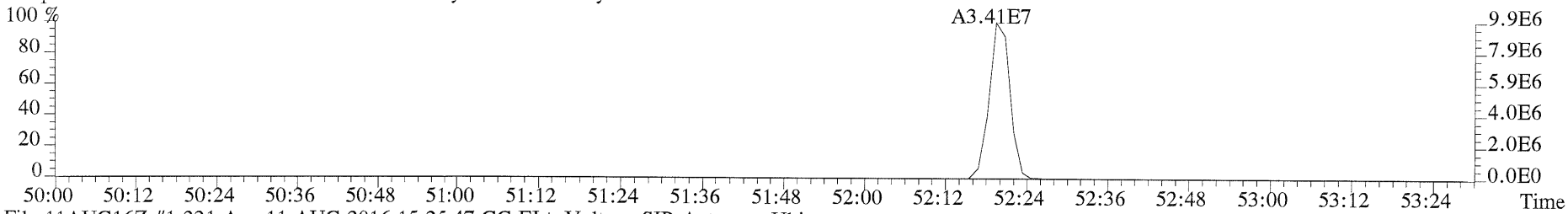
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



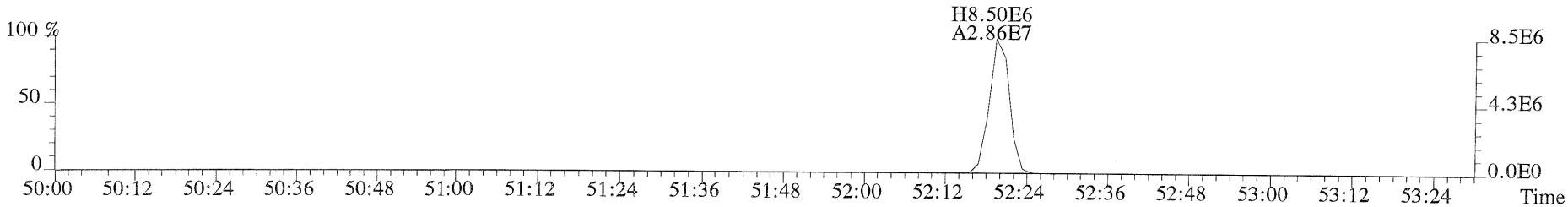
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



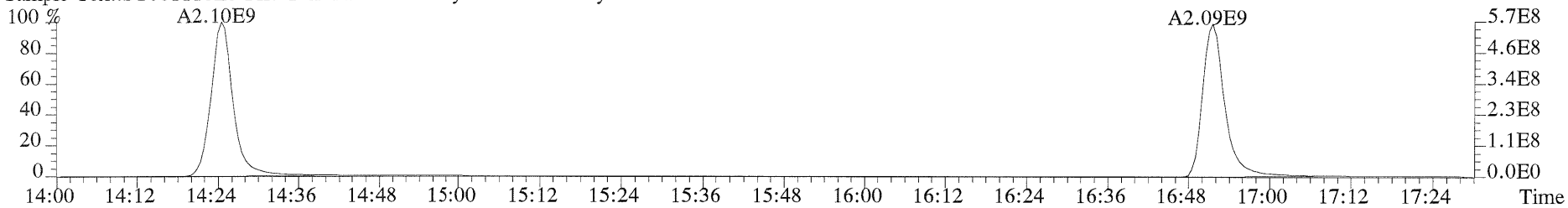
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



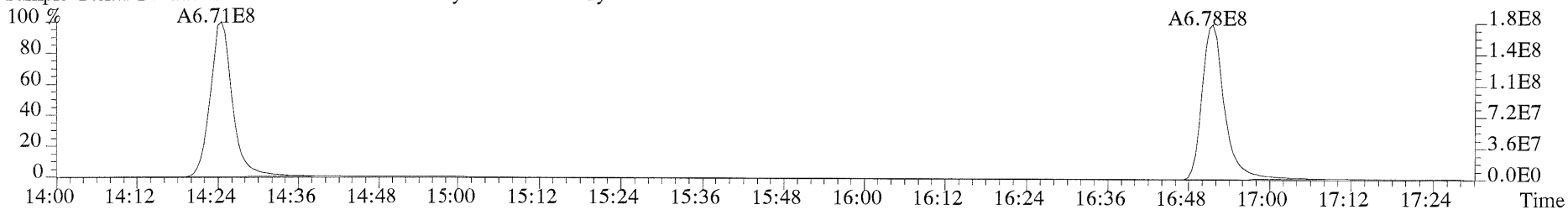
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



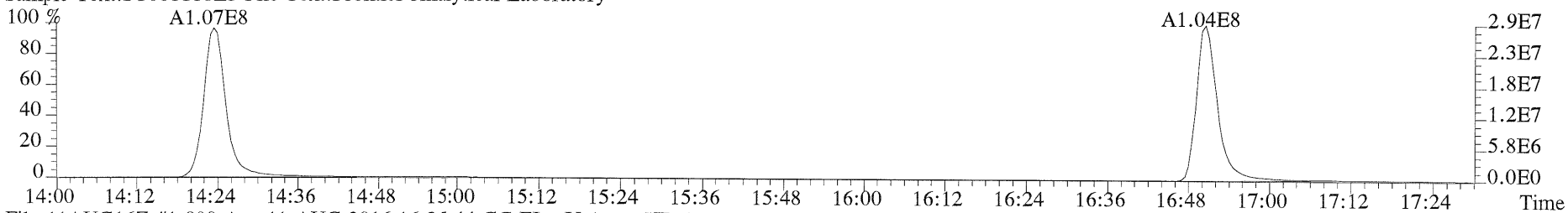
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



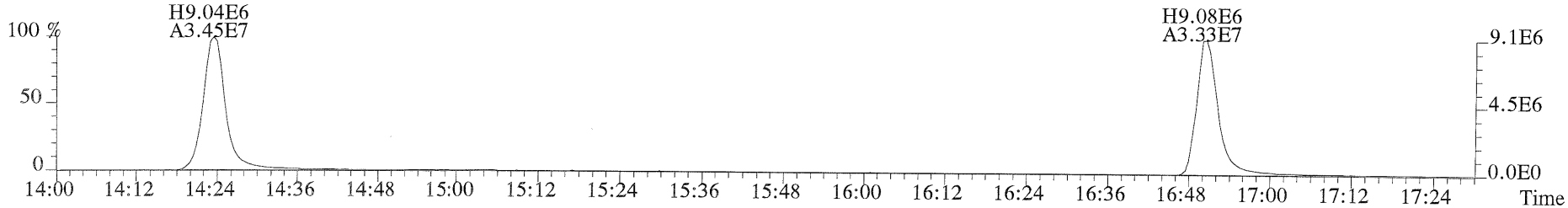
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



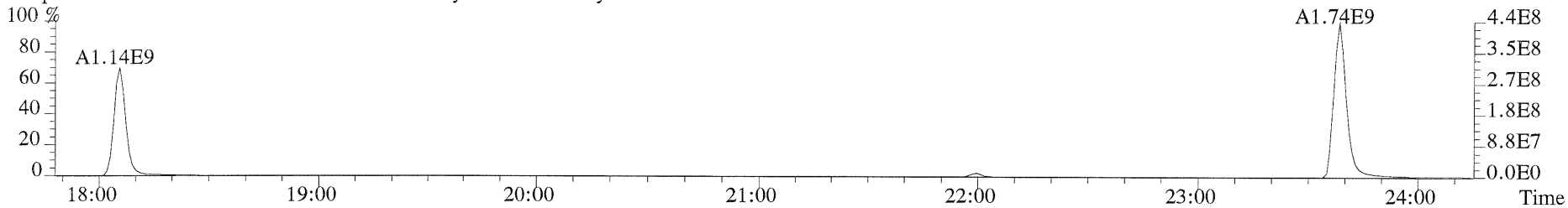
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



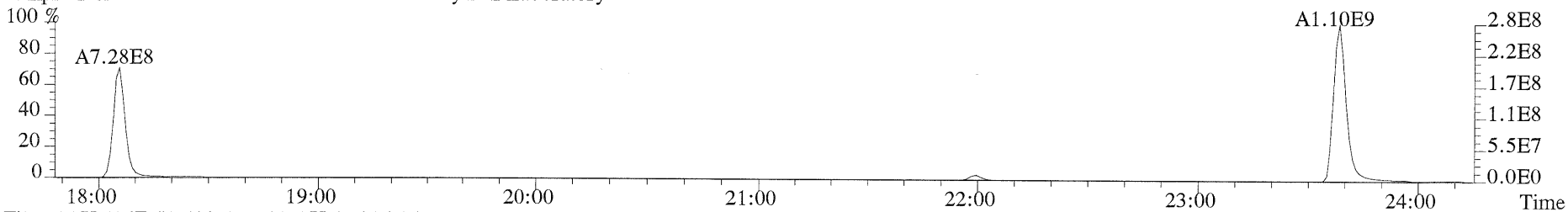
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



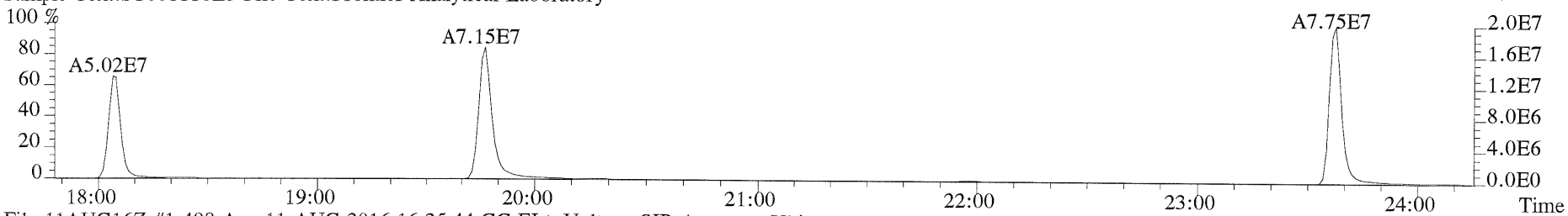
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



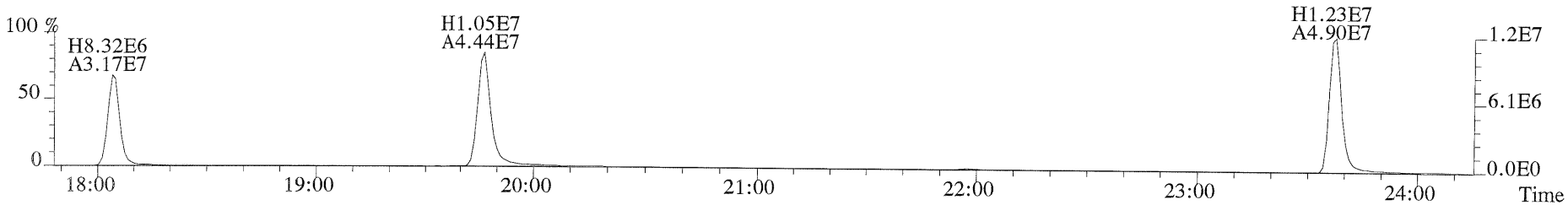
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



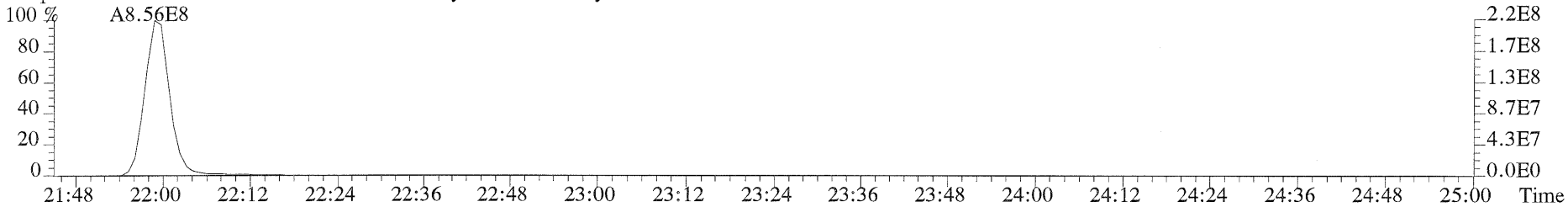
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



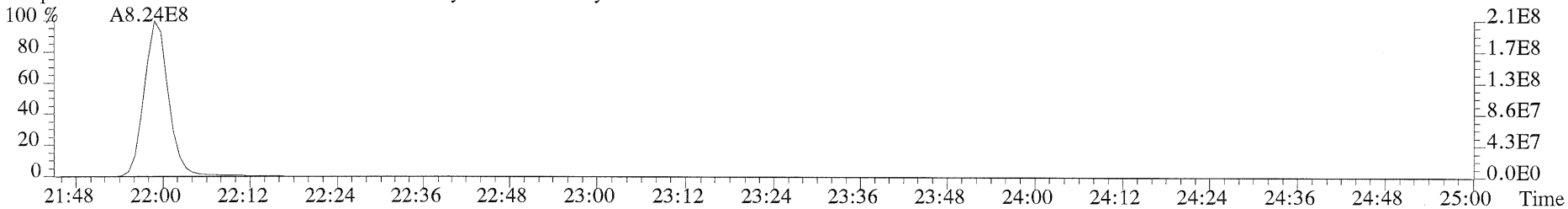
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



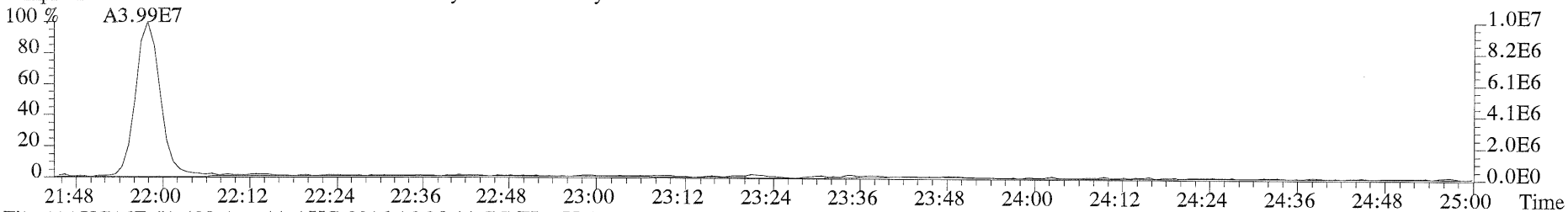
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



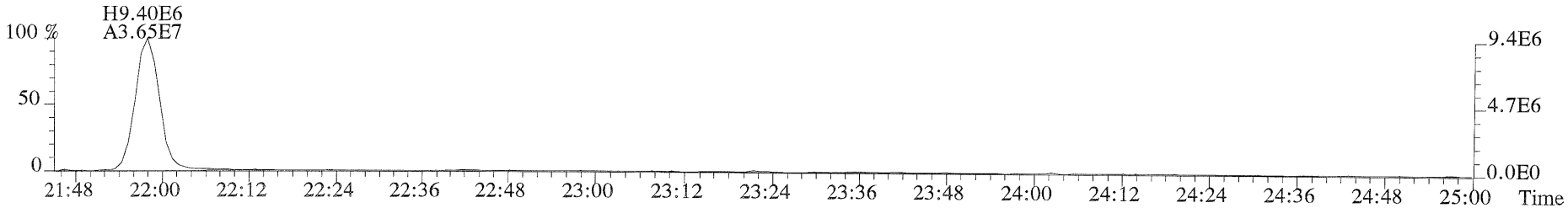
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



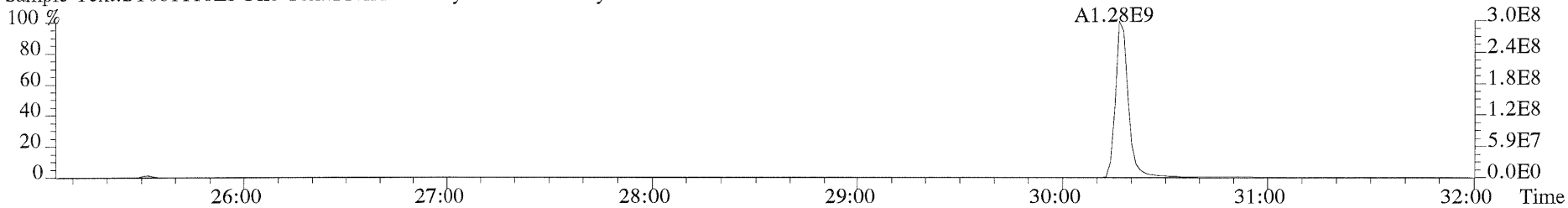
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



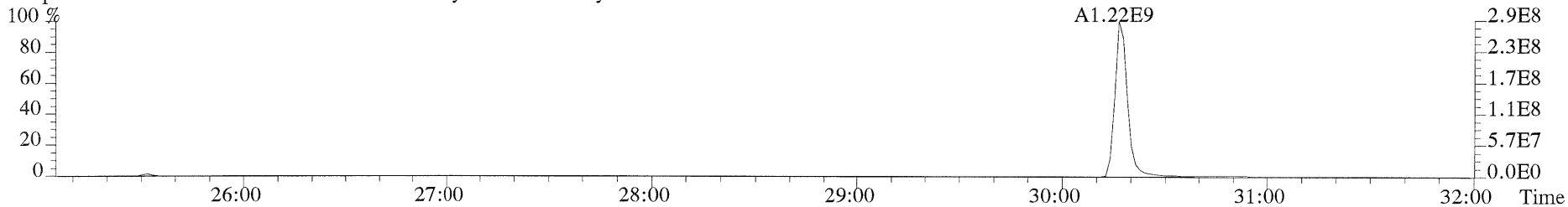
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



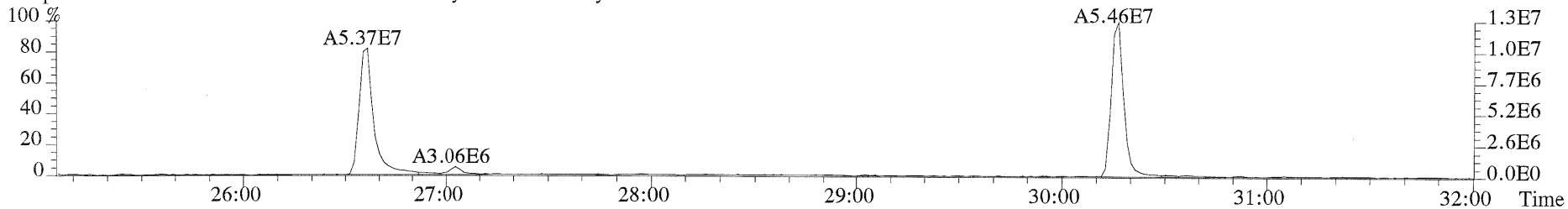
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



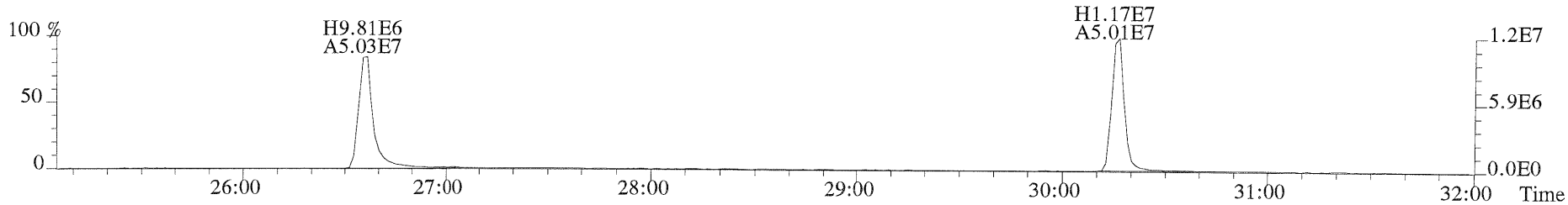
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



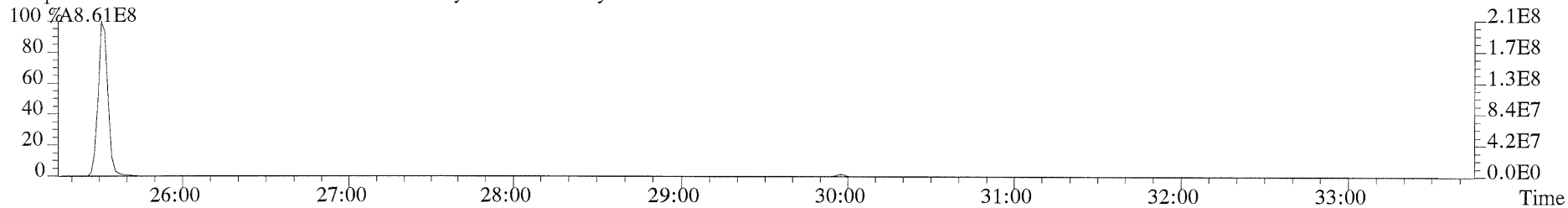
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



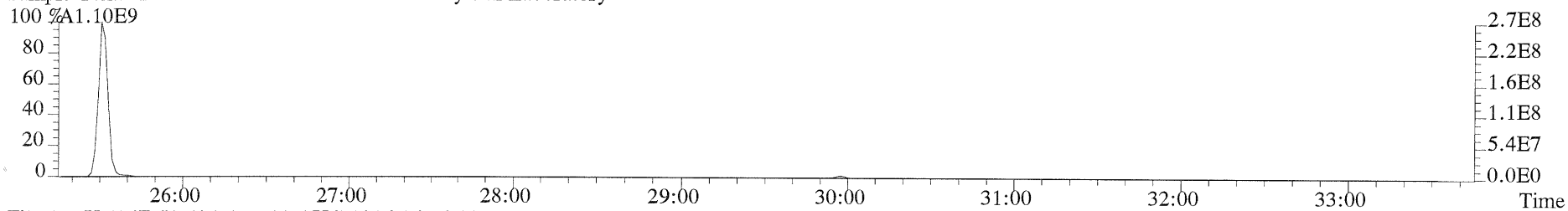
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



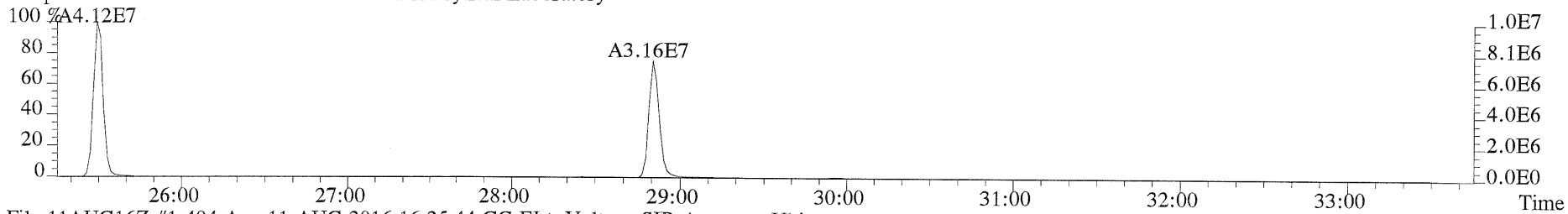
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



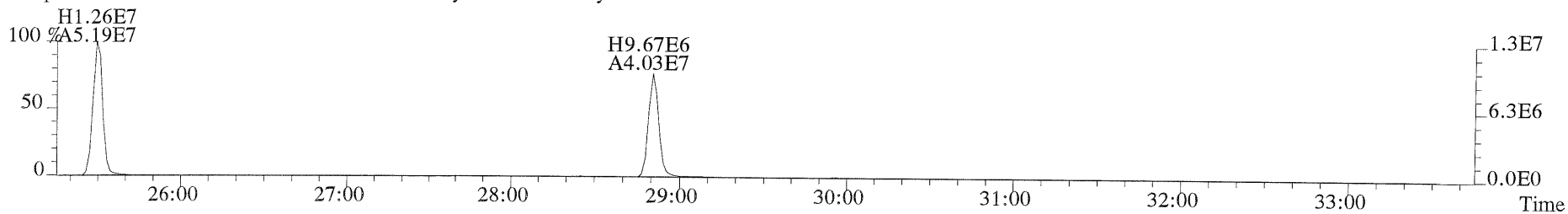
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



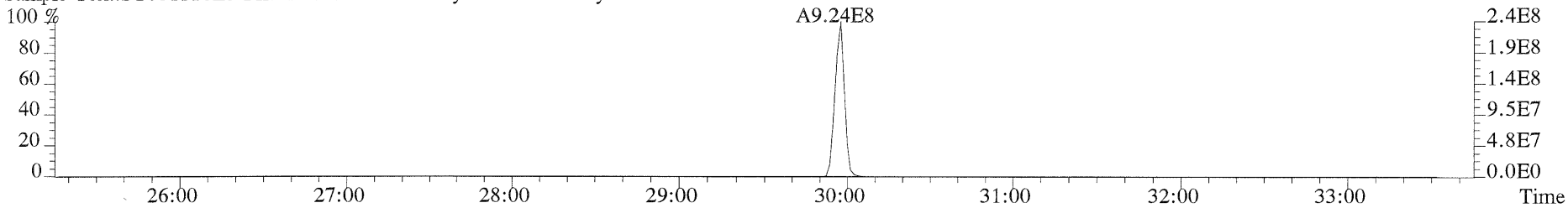
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



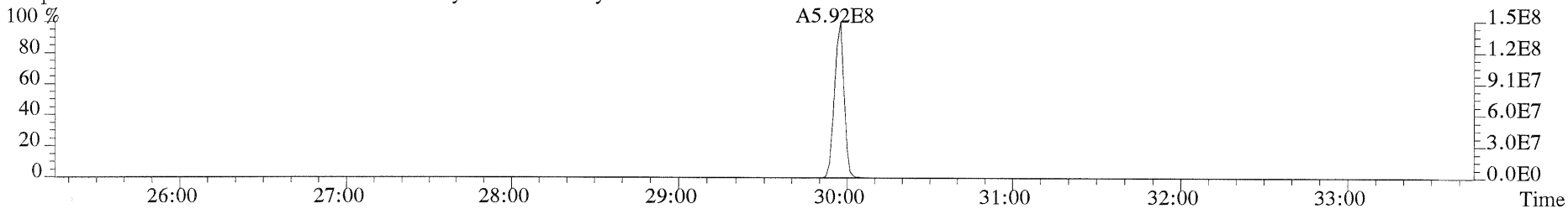
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



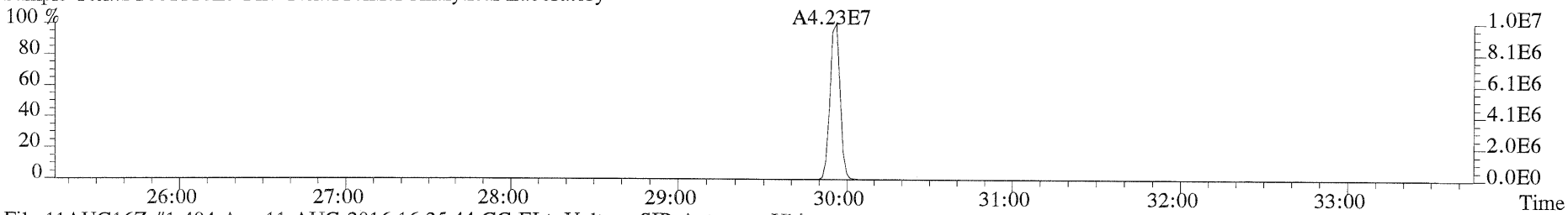
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



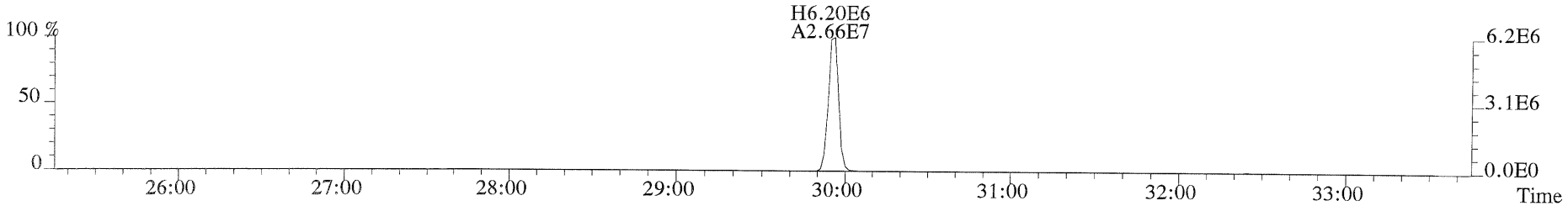
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



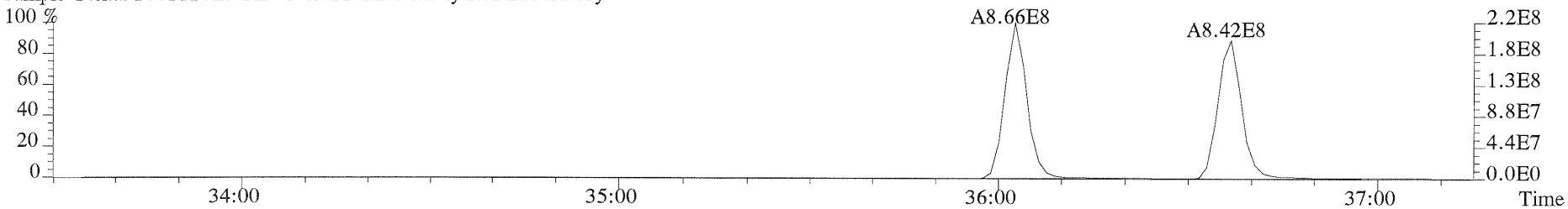
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



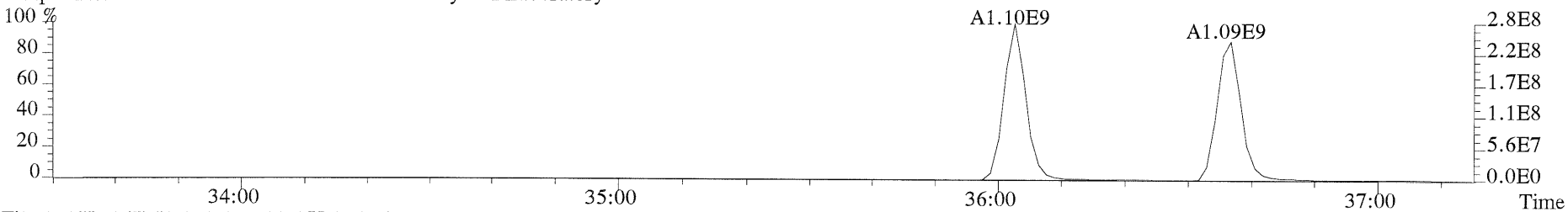
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



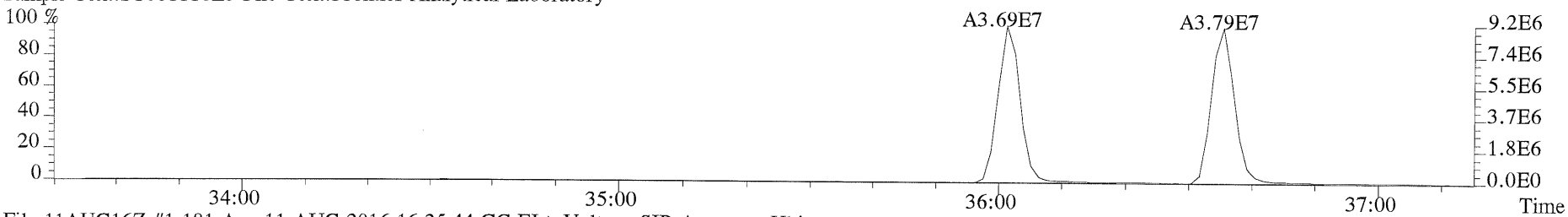
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



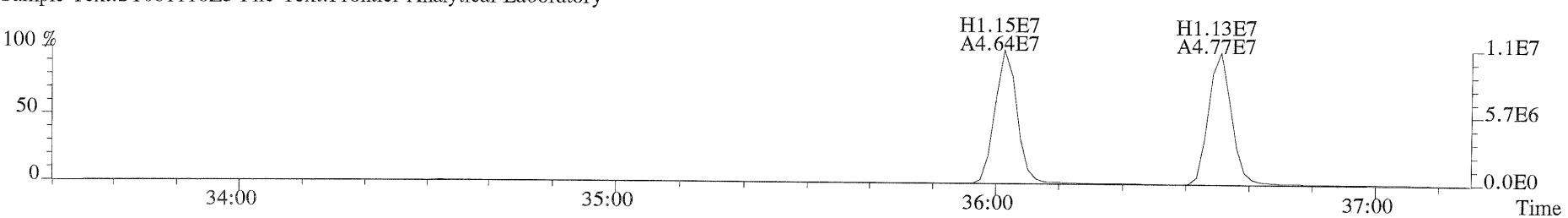
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



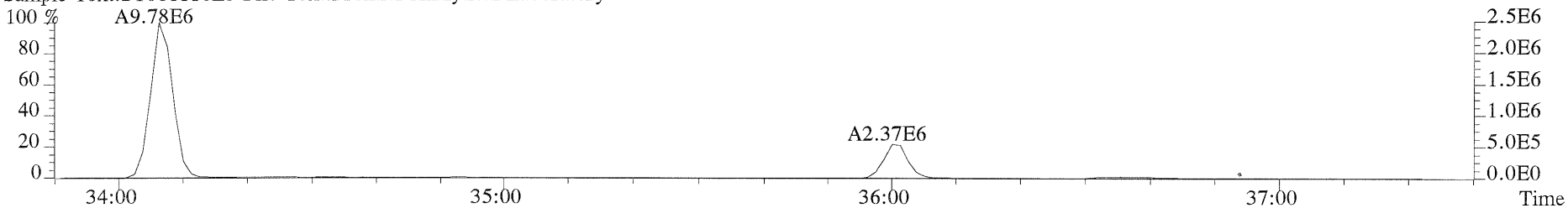
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



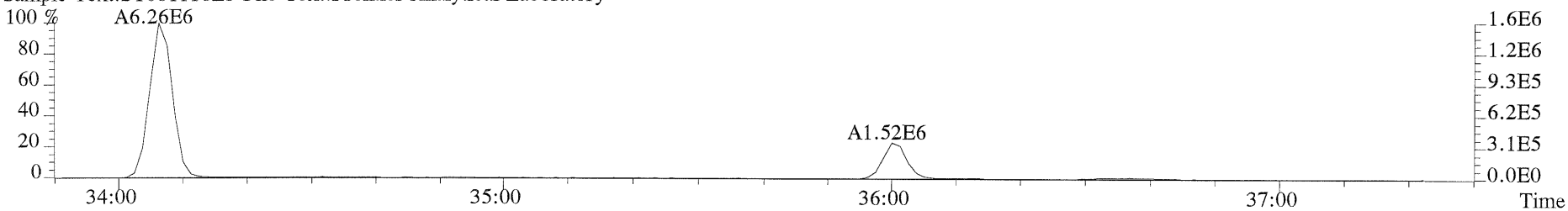
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



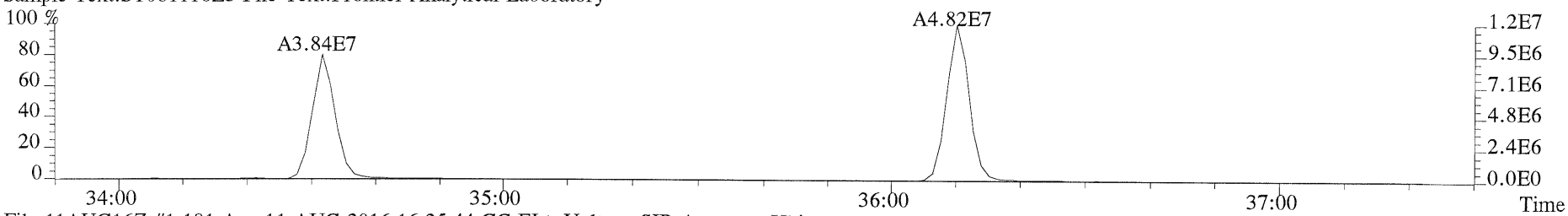
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



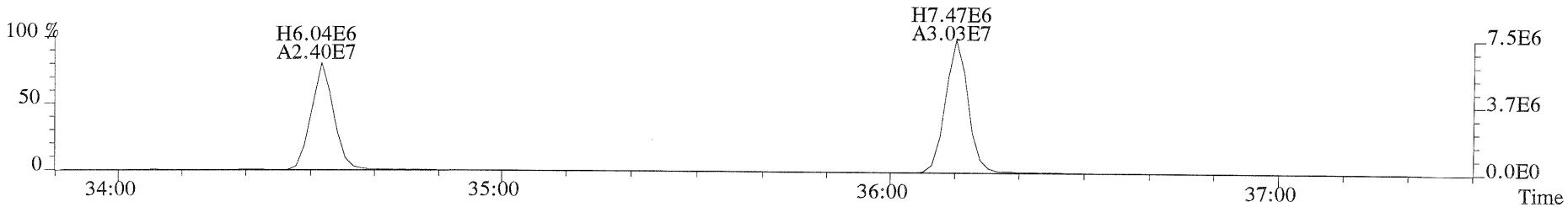
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



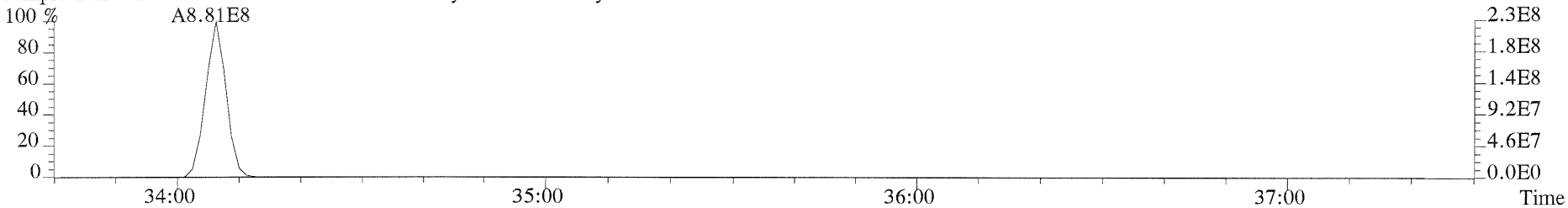
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



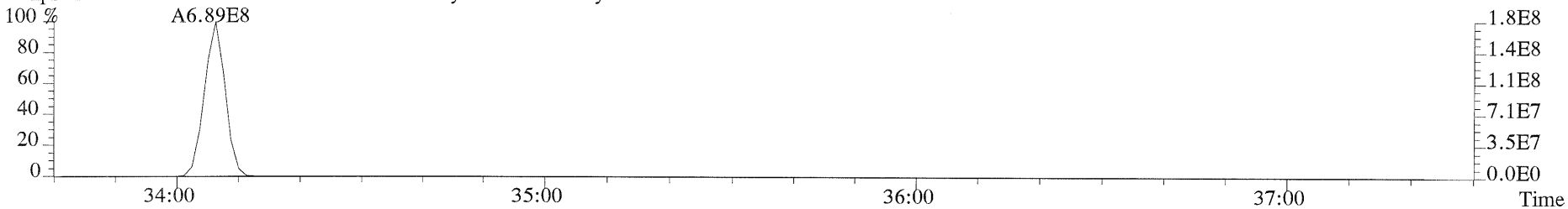
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



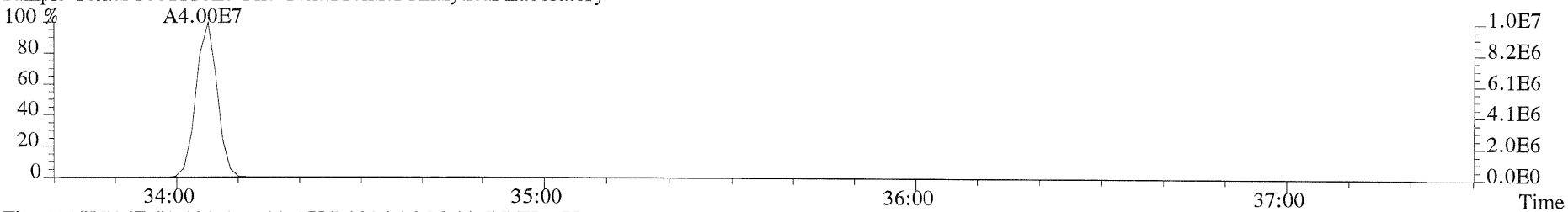
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



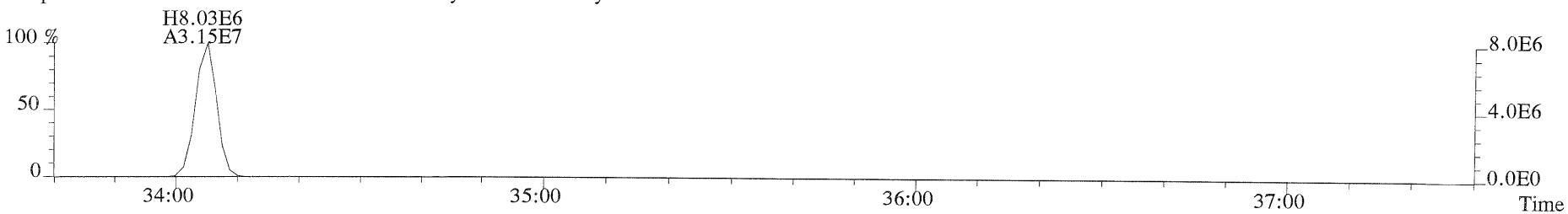
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



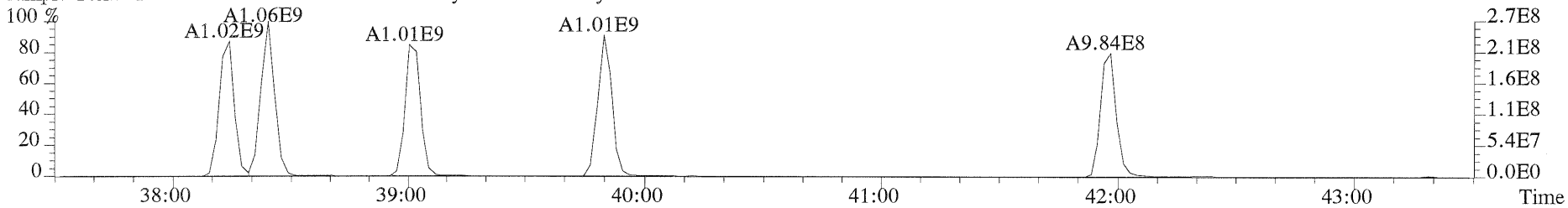
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



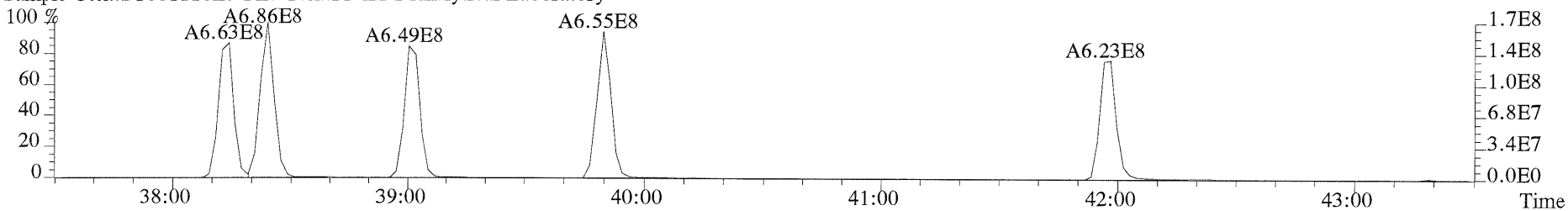
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



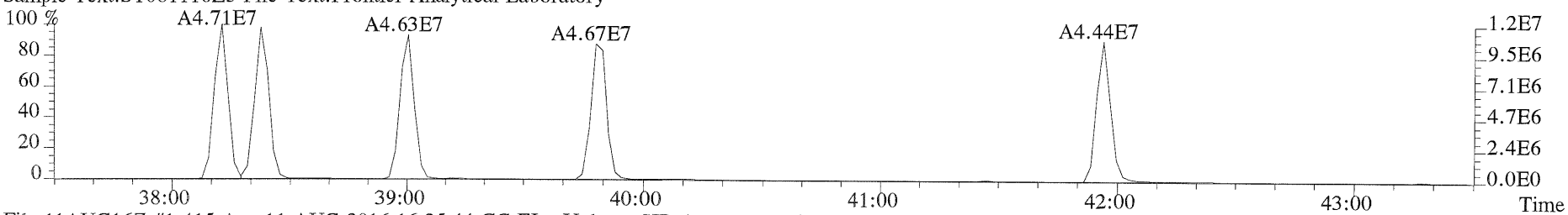
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



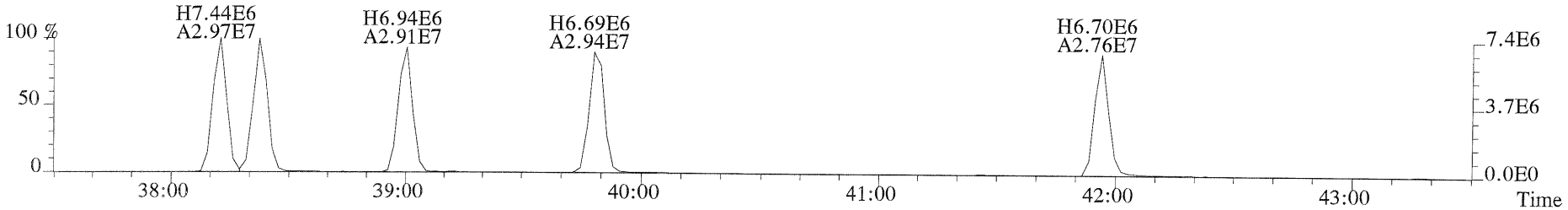
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



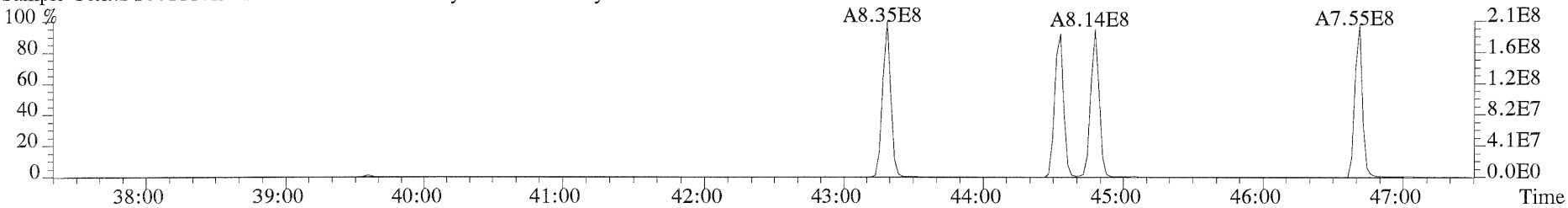
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



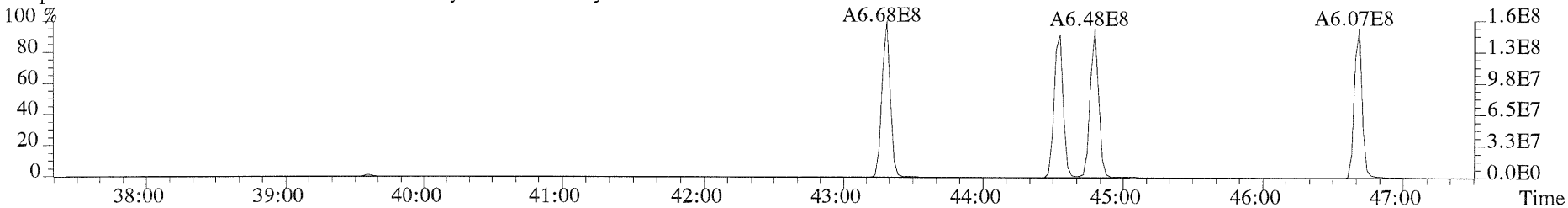
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



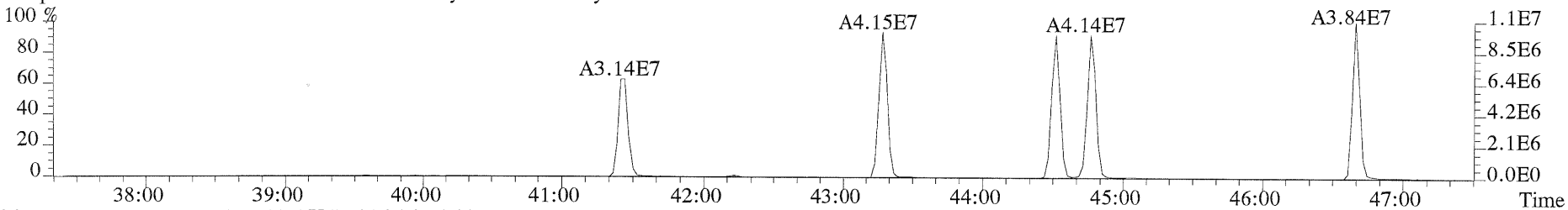
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



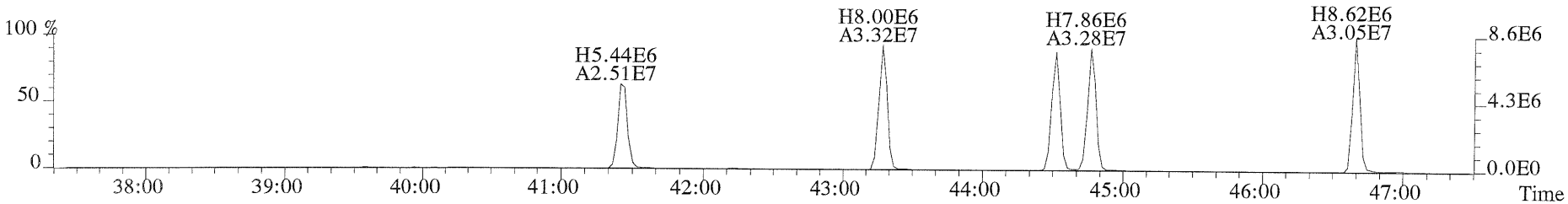
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



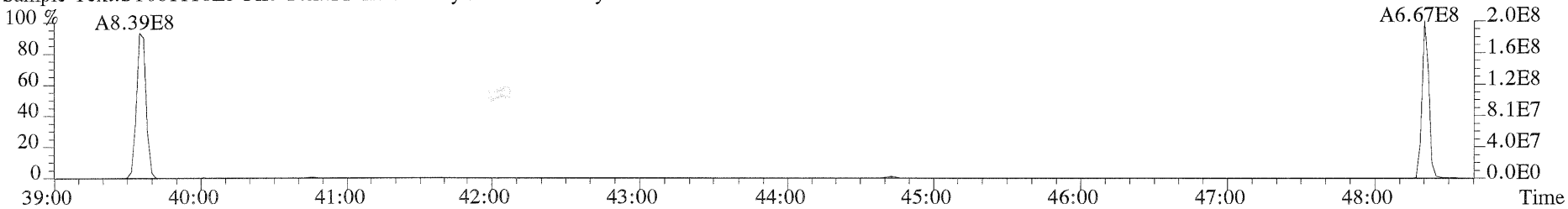
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



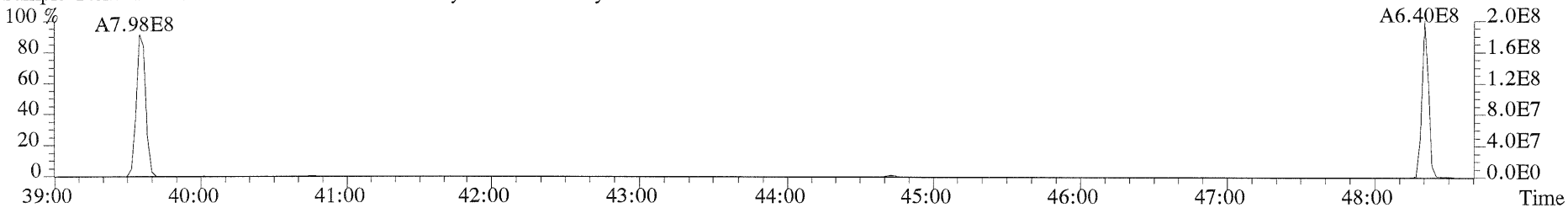
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



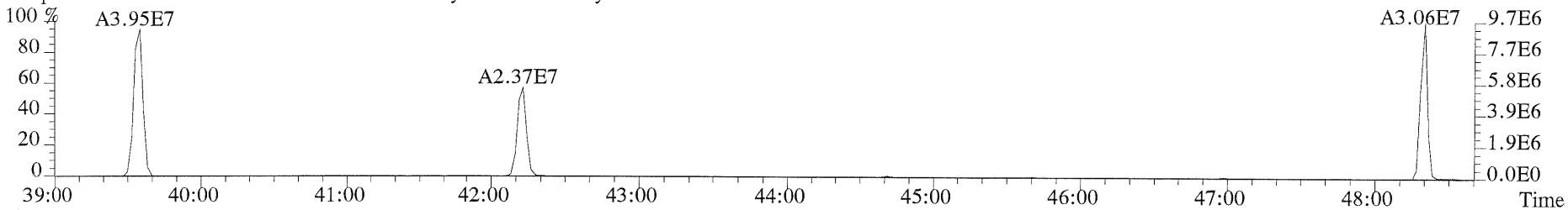
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



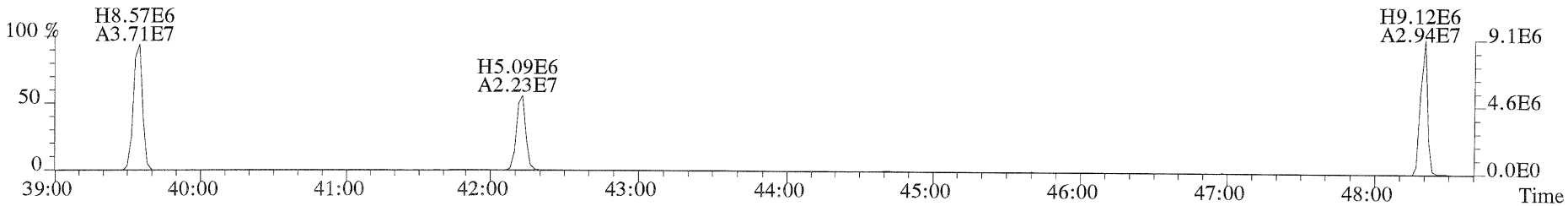
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



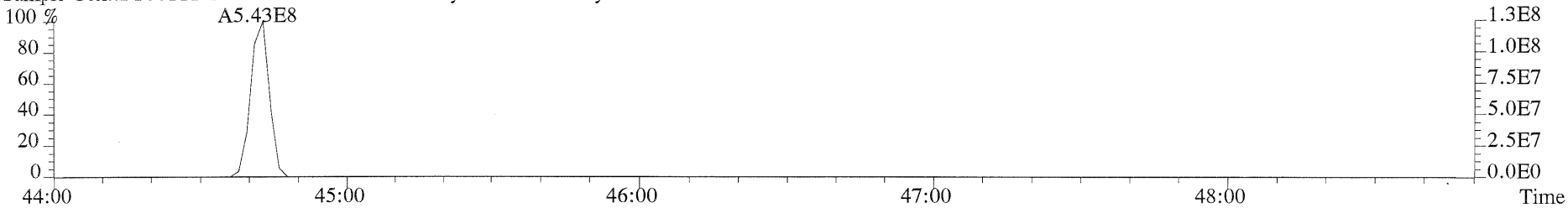
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



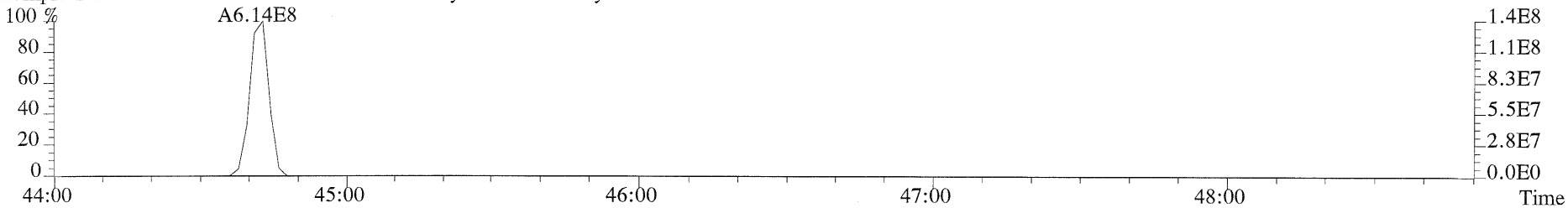
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



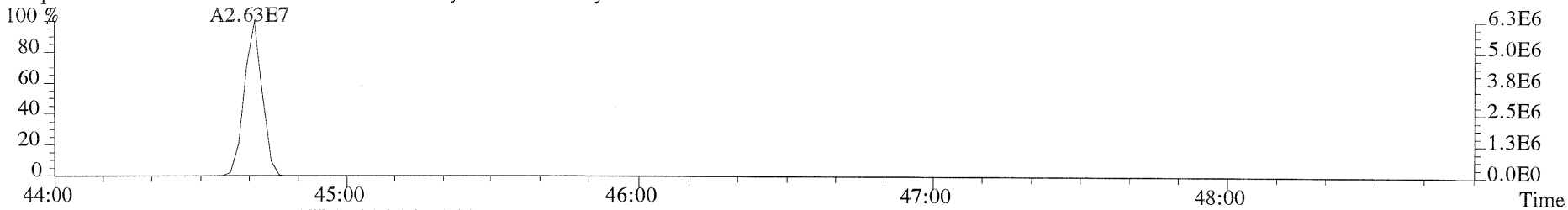
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



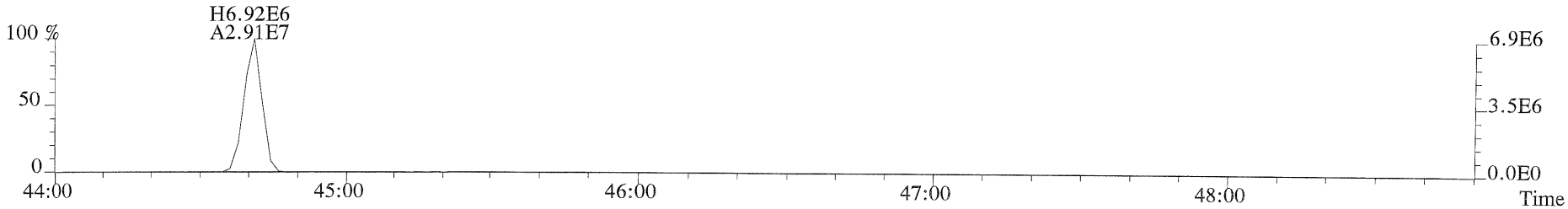
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



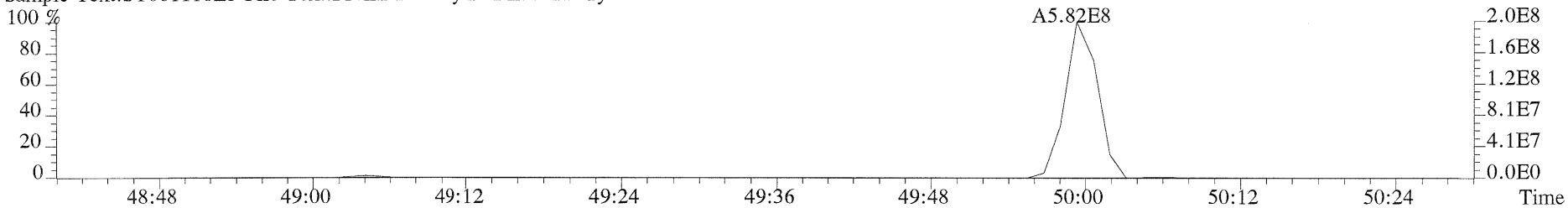
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



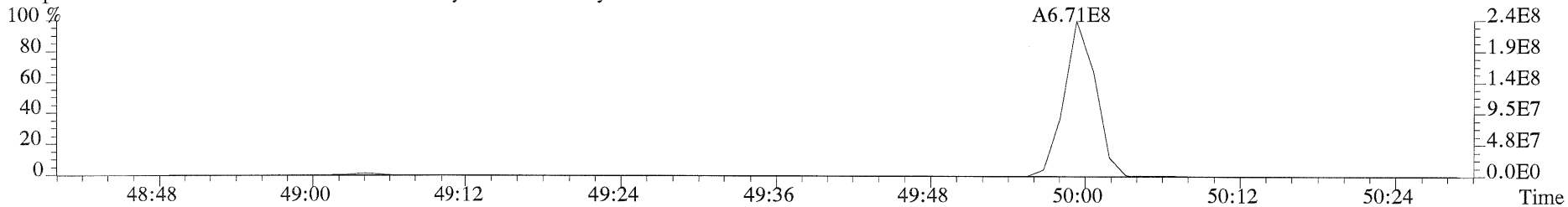
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



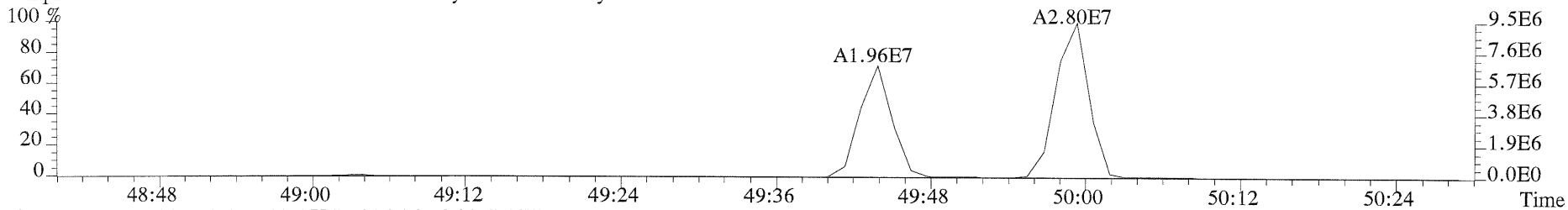
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



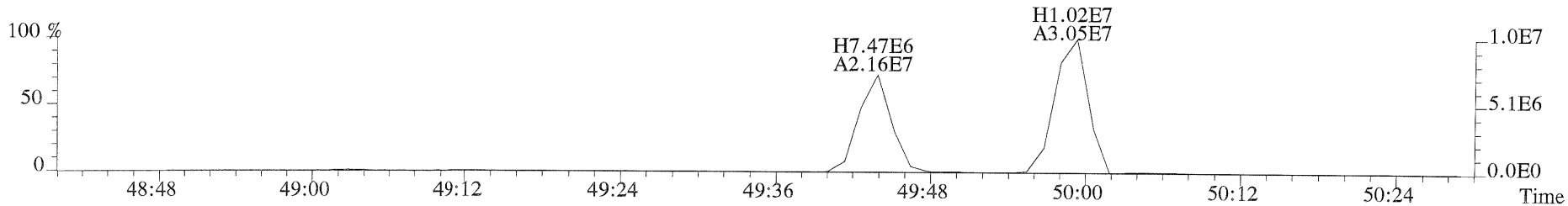
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



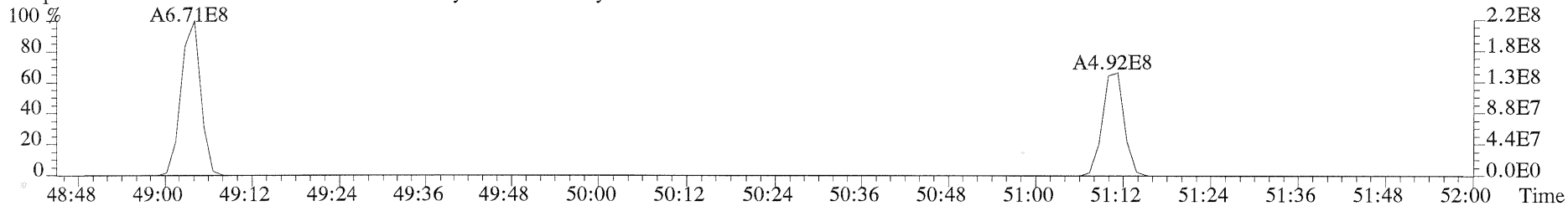
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



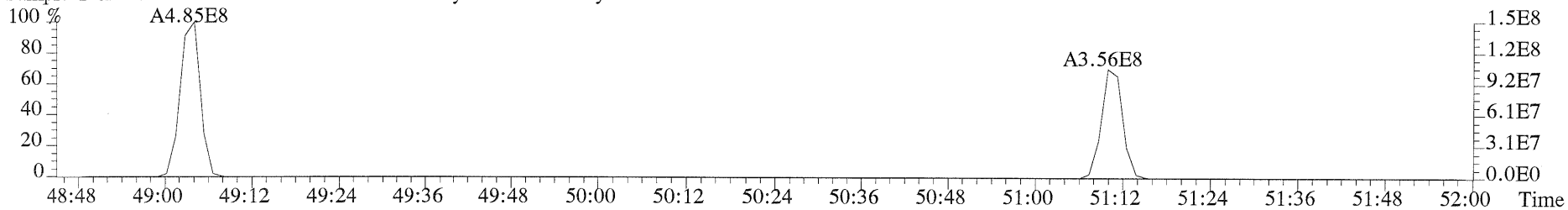
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



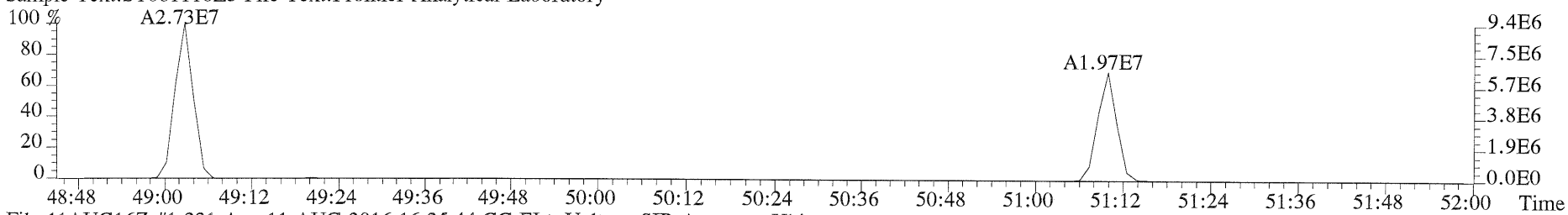
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



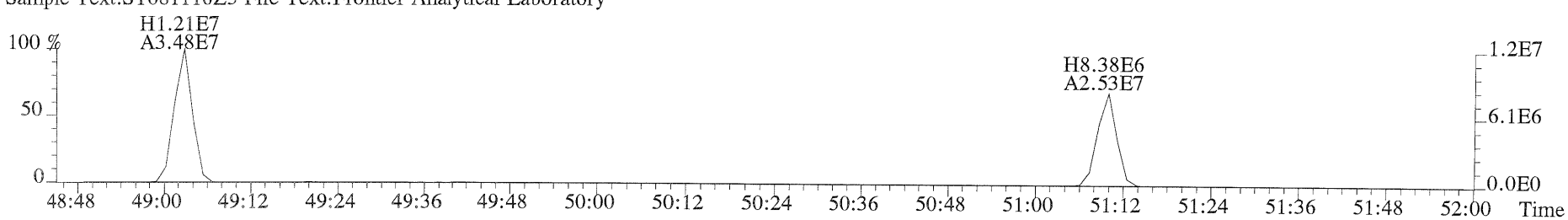
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



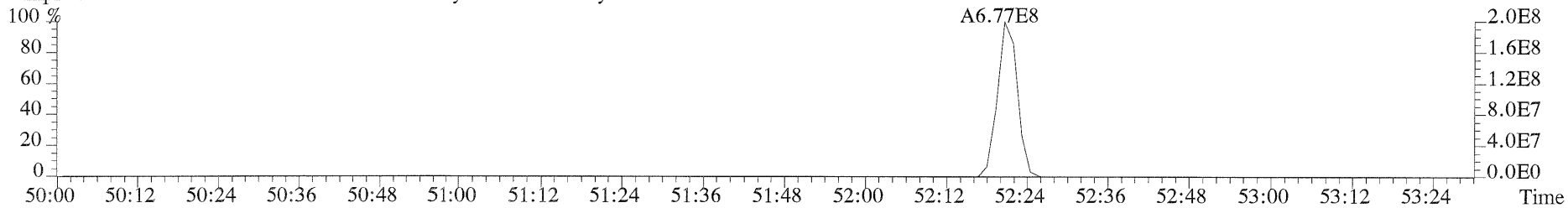
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



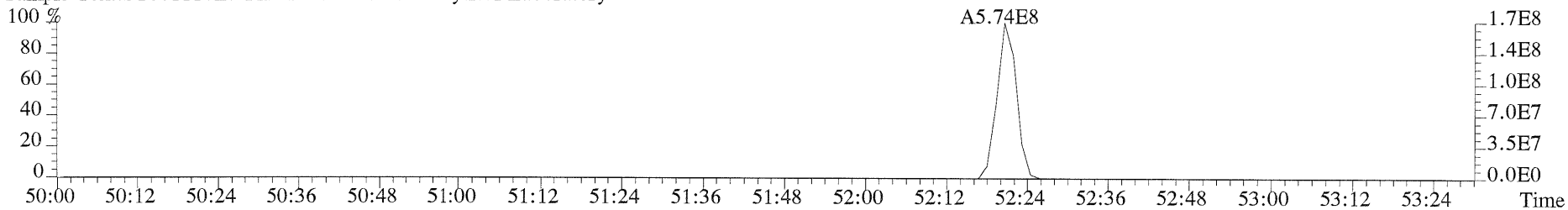
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



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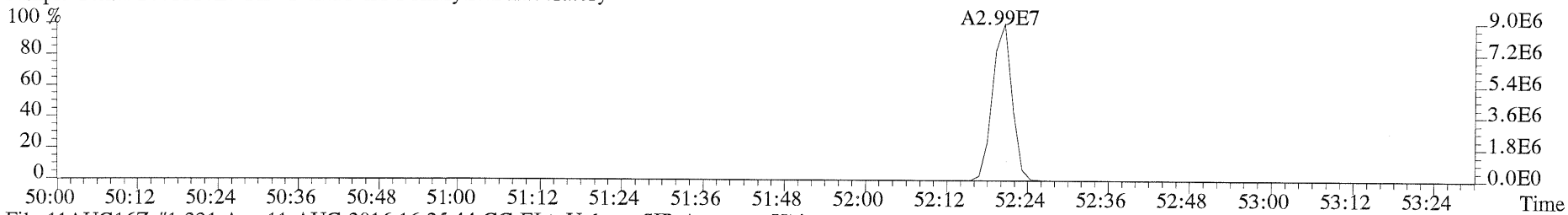
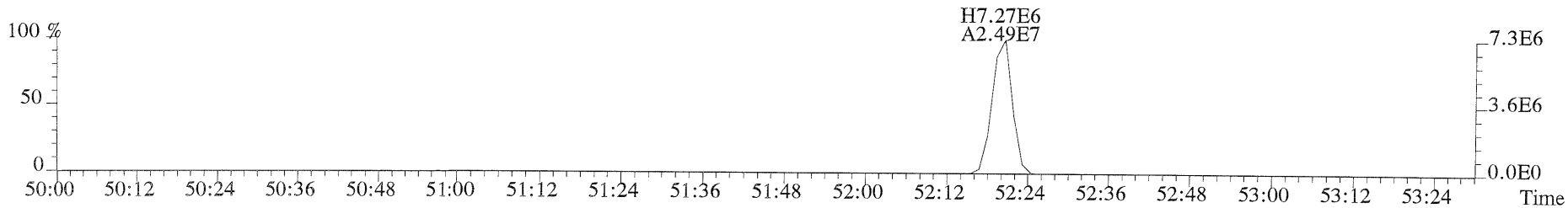
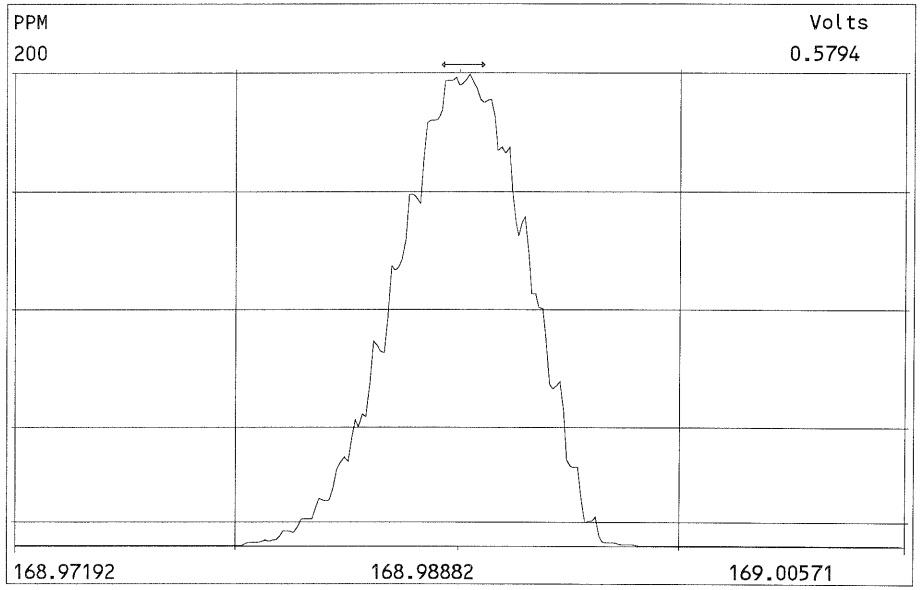
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory

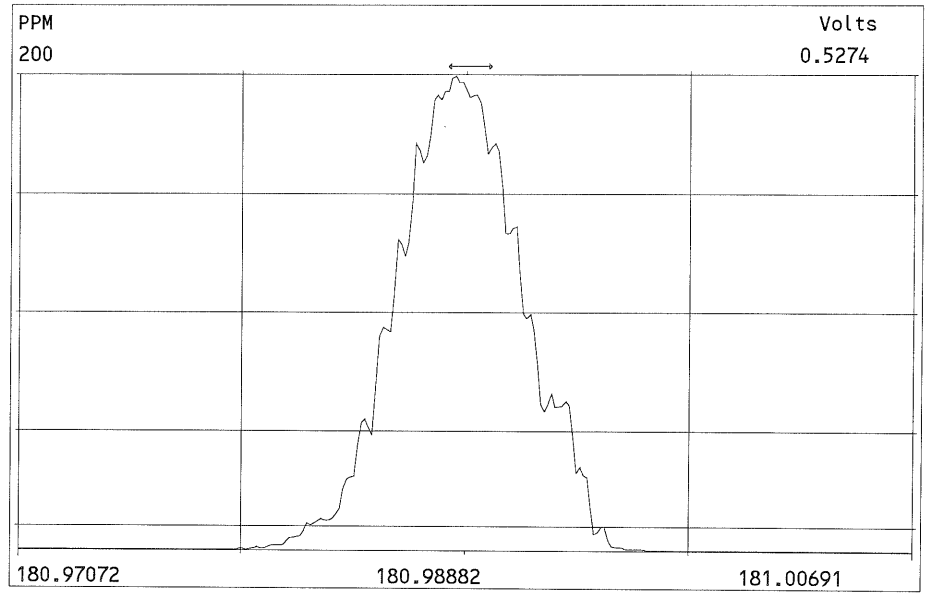


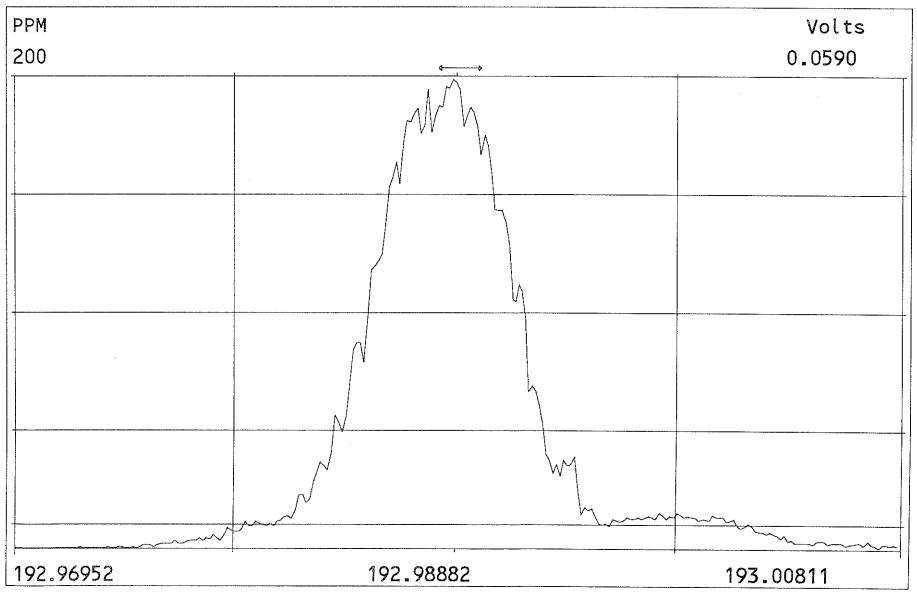
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory

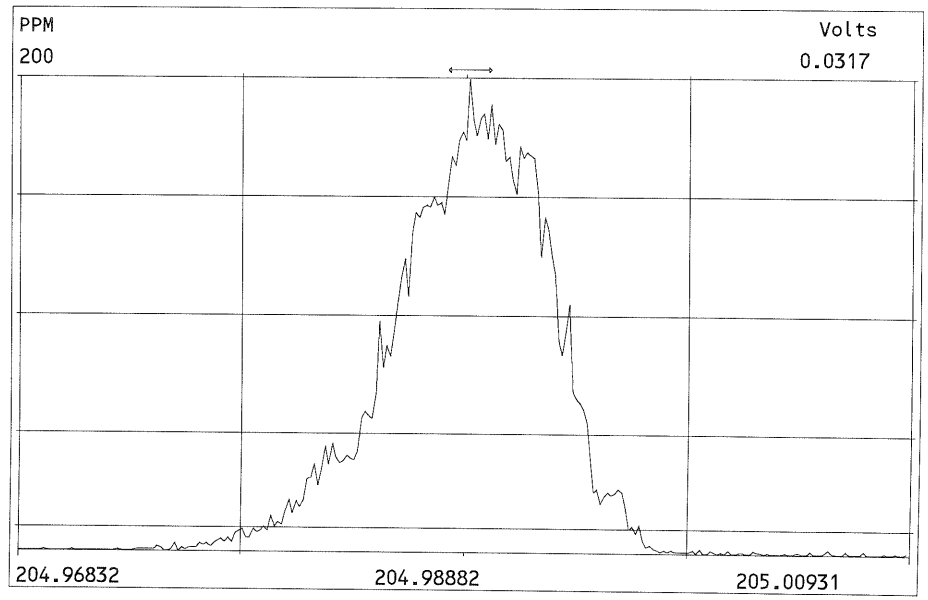


Peak Locate Examination:12-AUG-2016:07:42 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:1 Reference:PFK

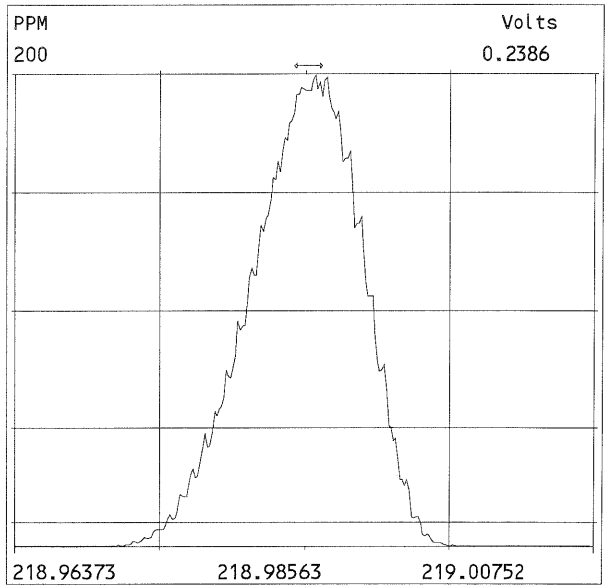


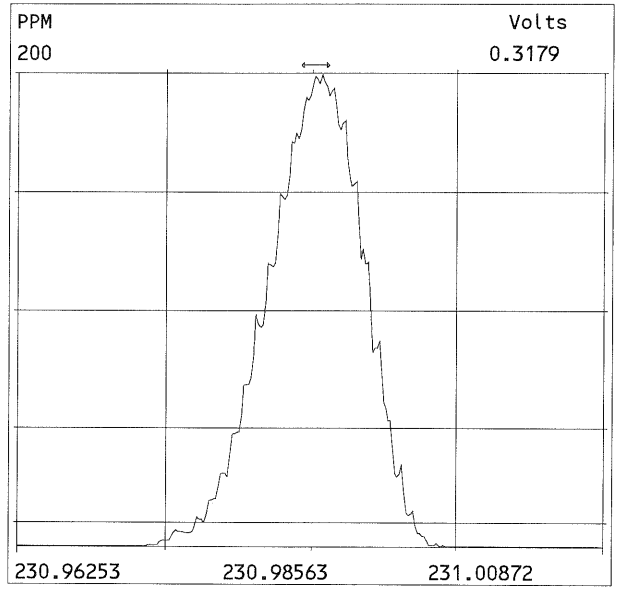


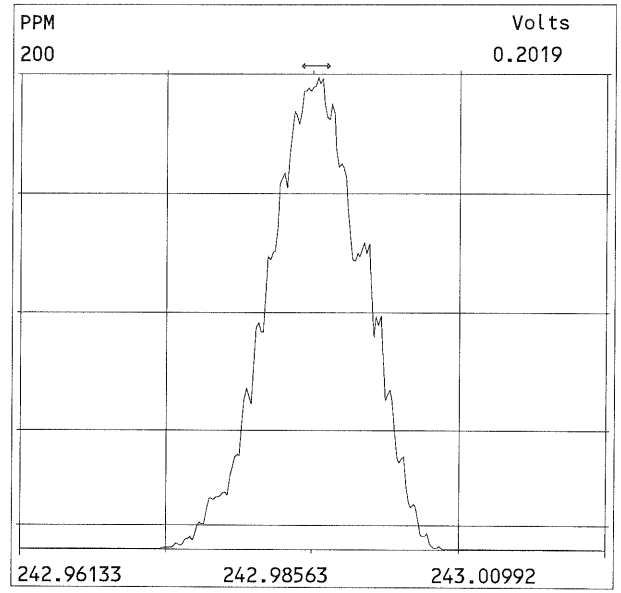


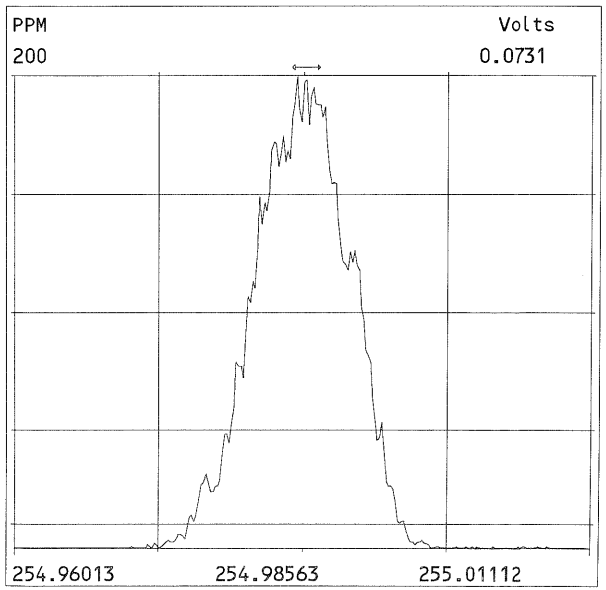


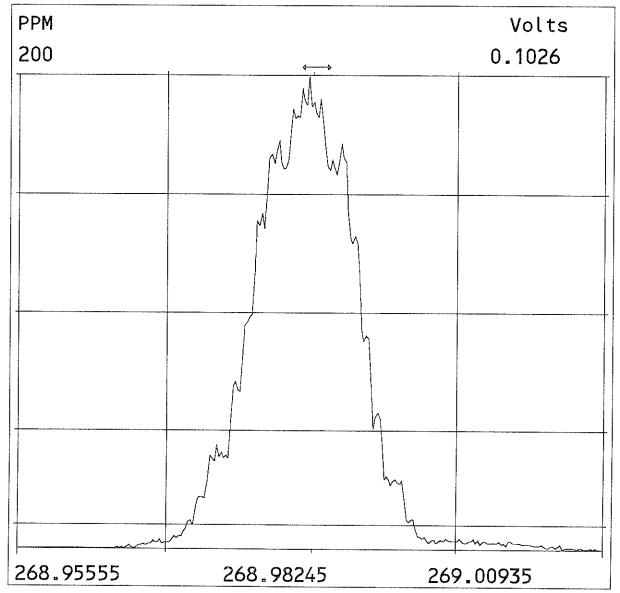
Peak Locate Examination:12-AUG-2016:07:42 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:2 Reference:PFK

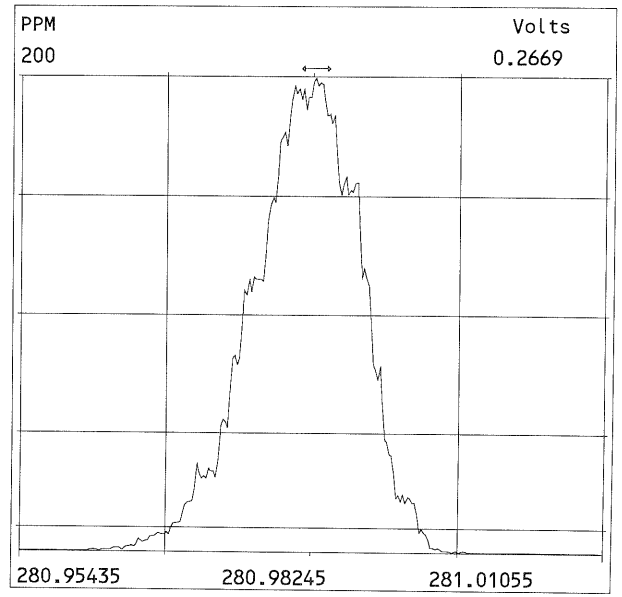




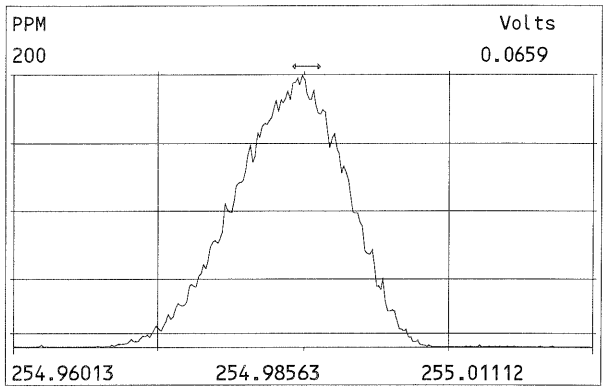


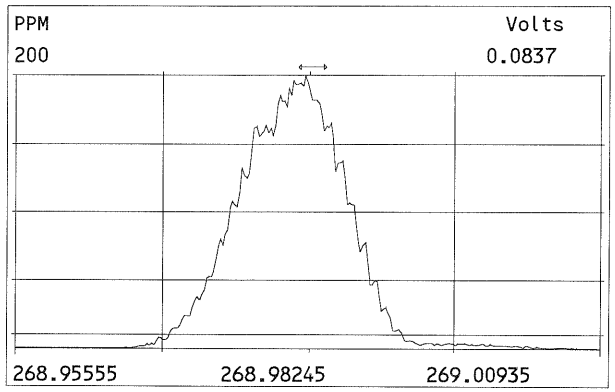


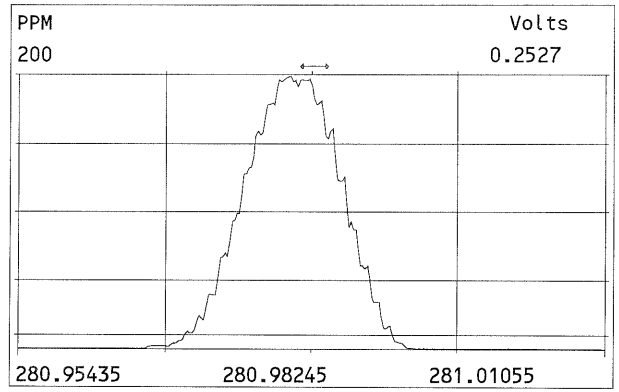


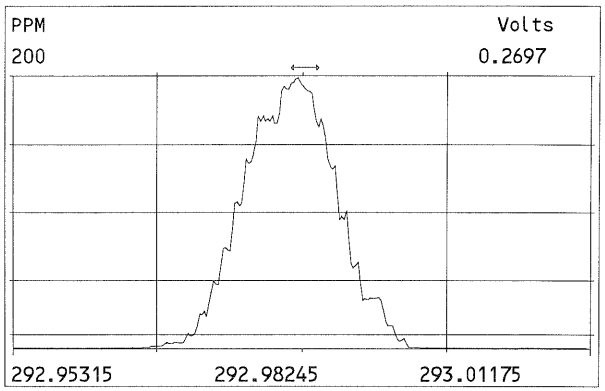


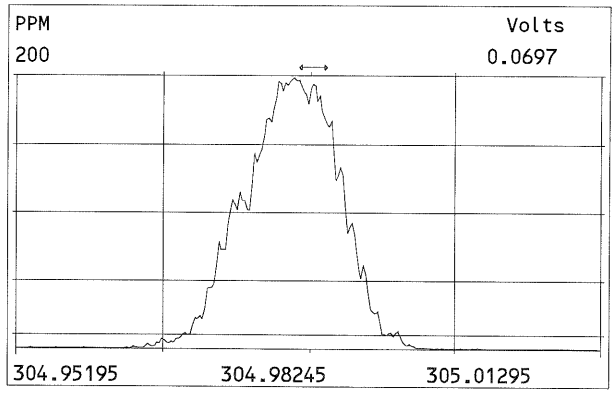
Peak Locate Examination:12-AUG-2016:07:43 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:3 Reference:PFK

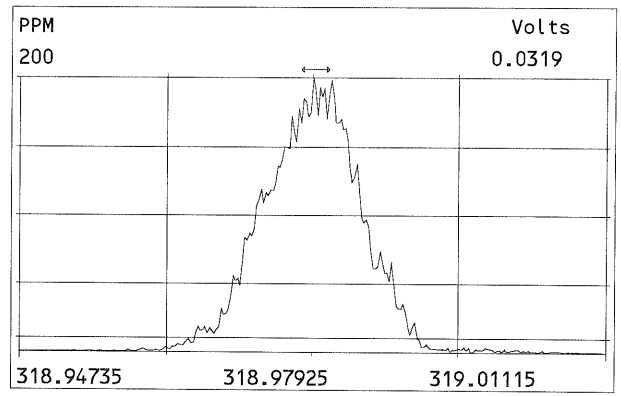


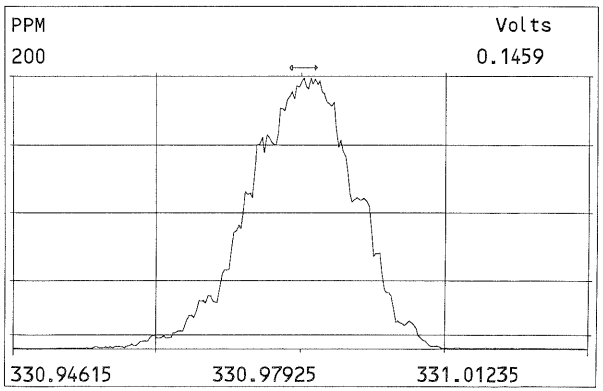


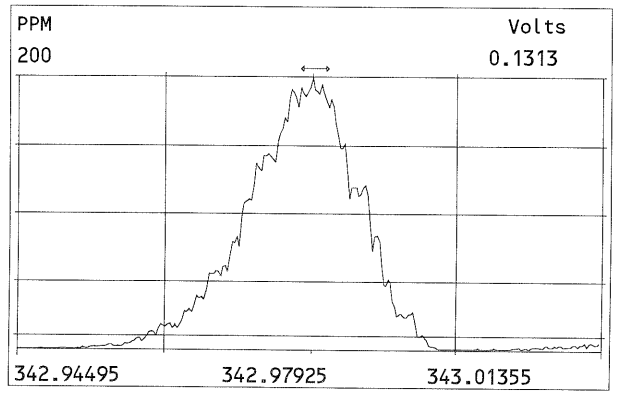




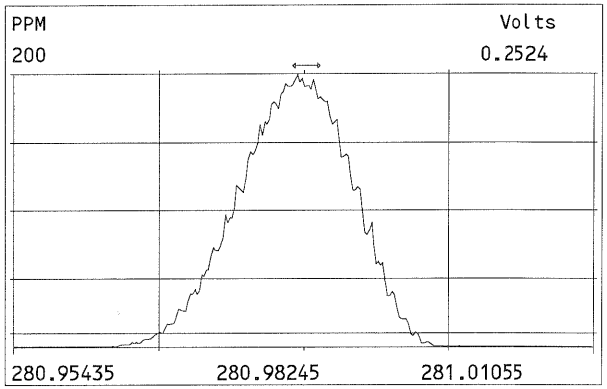


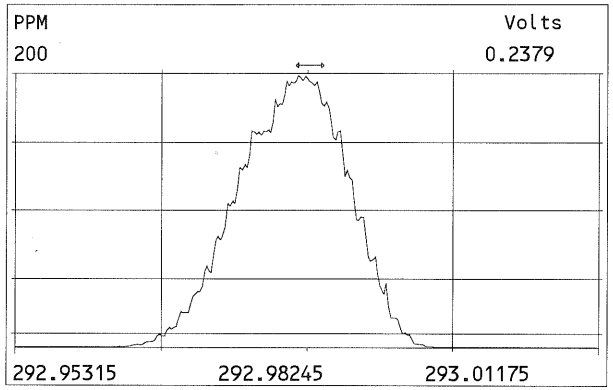


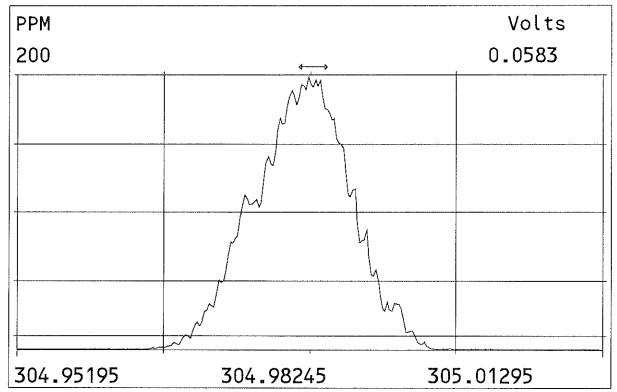


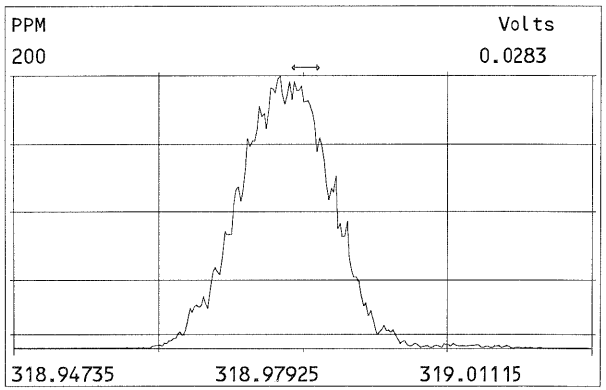


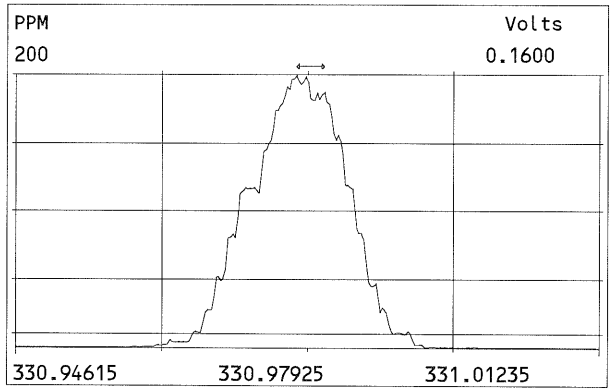
Peak Locate Examination:12-AUG-2016:07:43 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:4 Reference:PFK

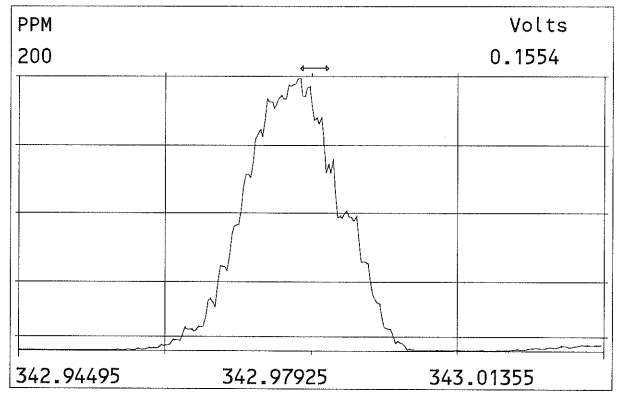


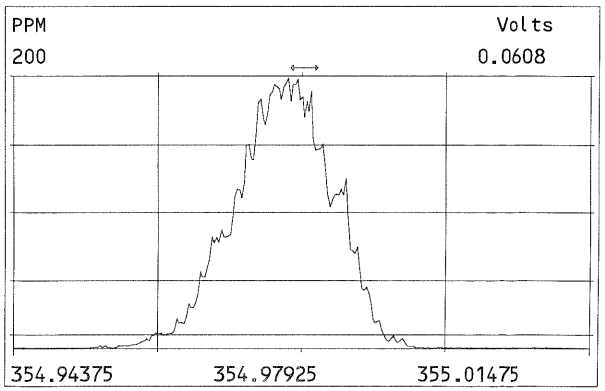


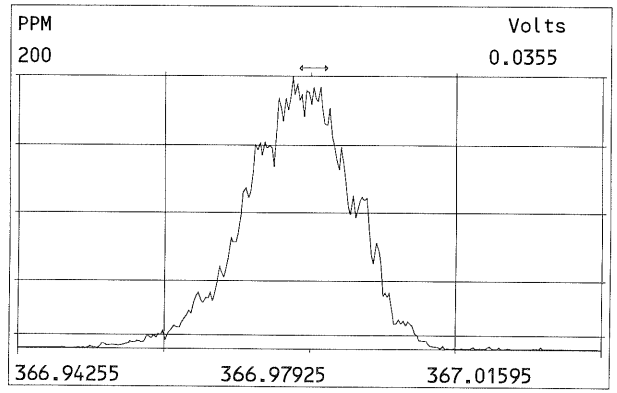


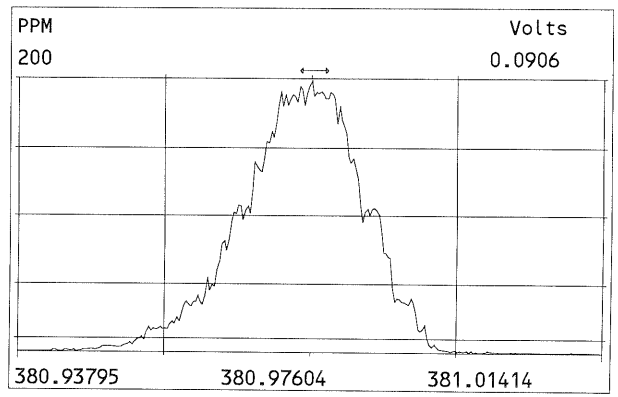




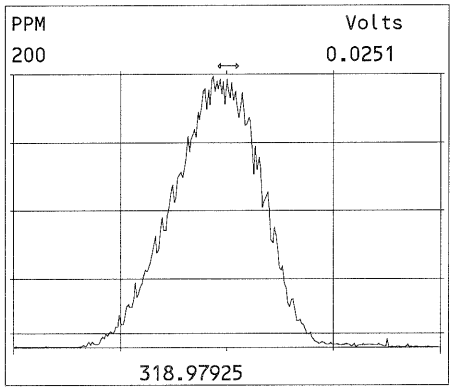


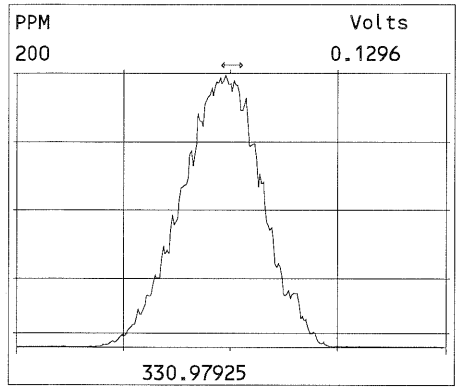


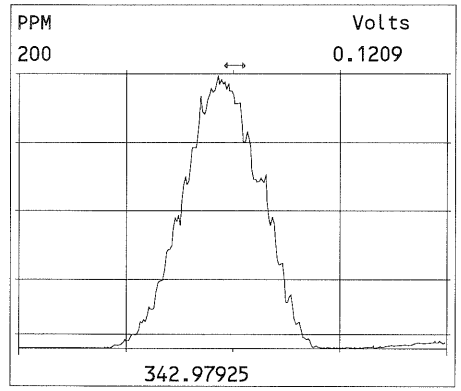


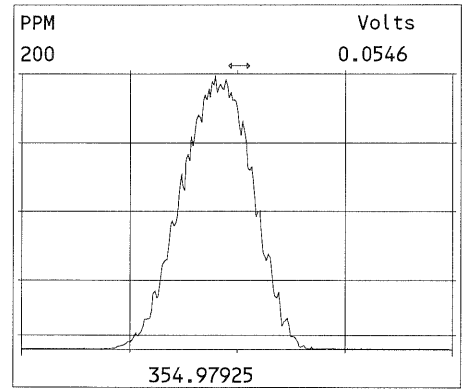


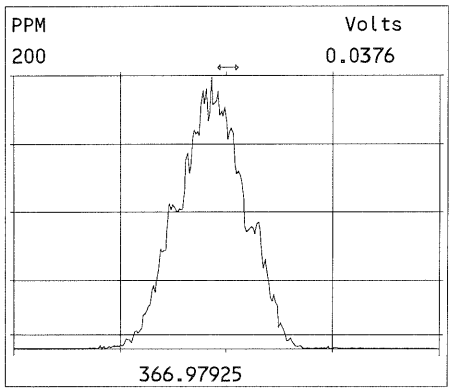
Peak Locate Examination:12-AUG-2016:07:44 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:5 Reference:PFK

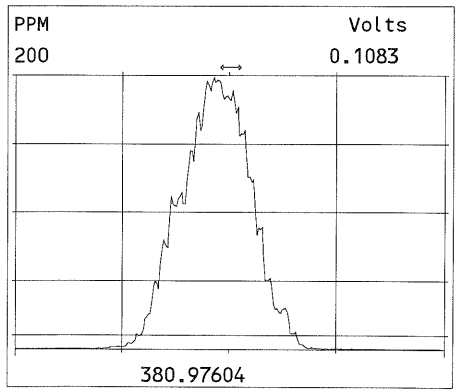


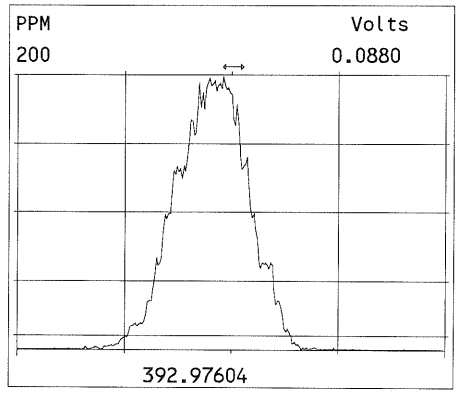


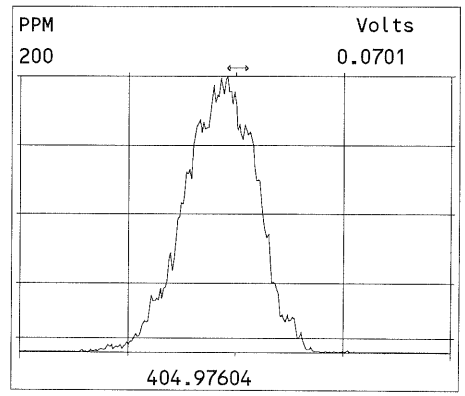


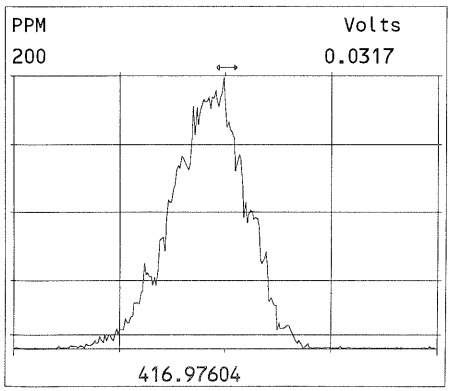


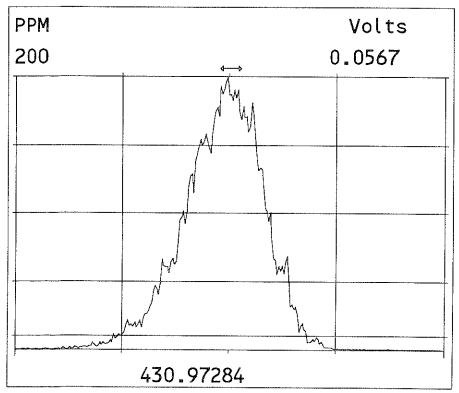


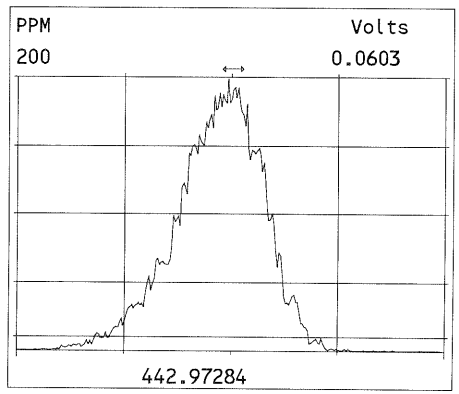




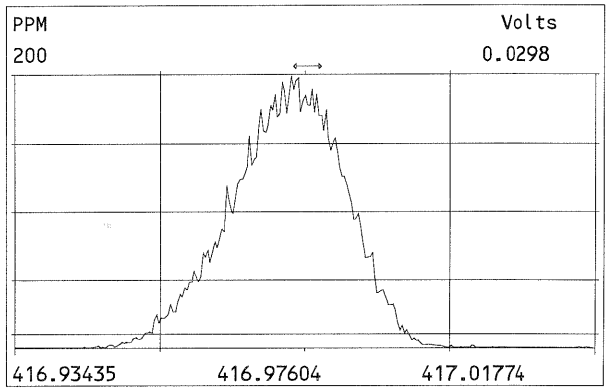


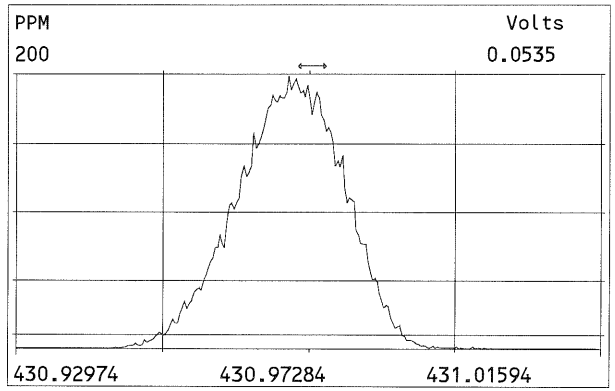


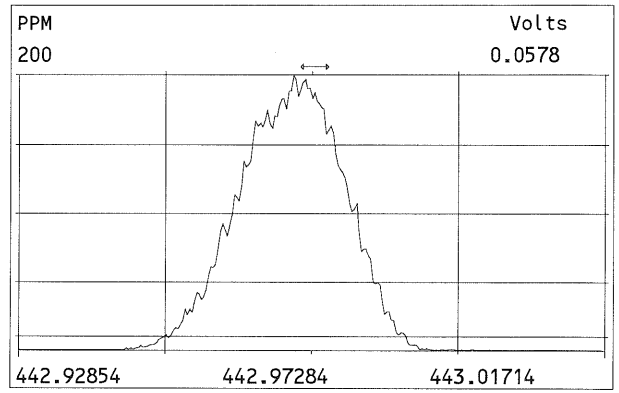


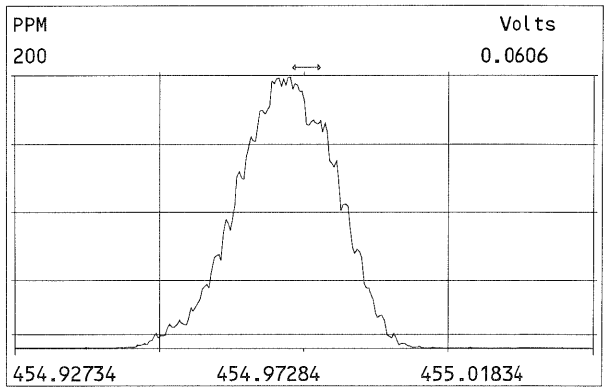


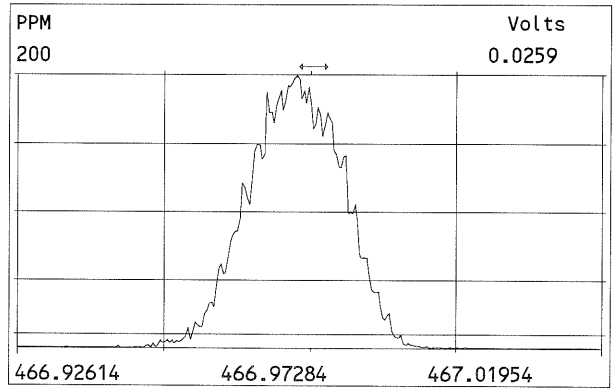
Peak Locate Examination:12-AUG-2016:07:44 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:6 Reference:PFK

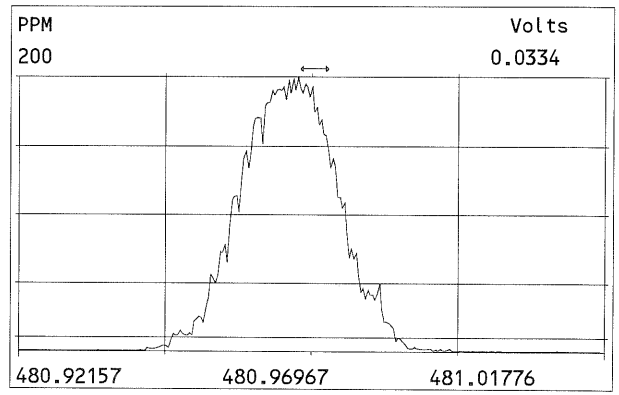


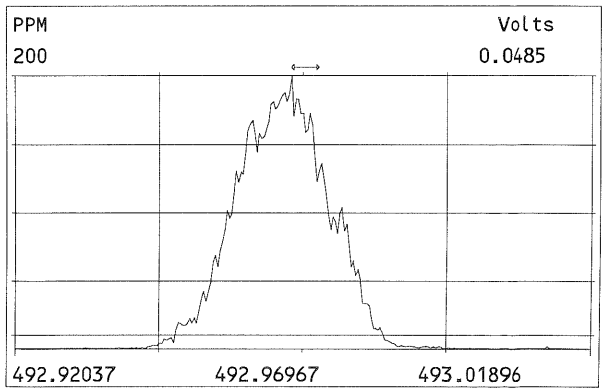


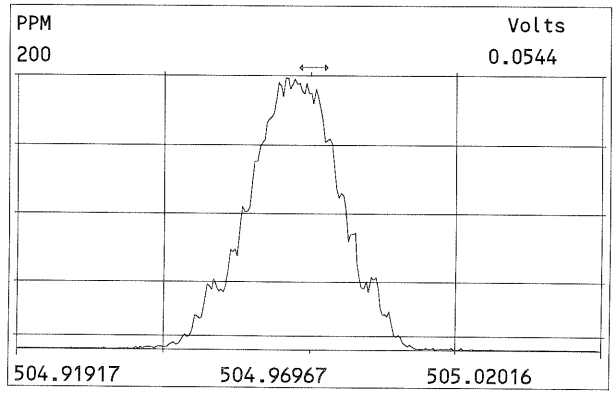


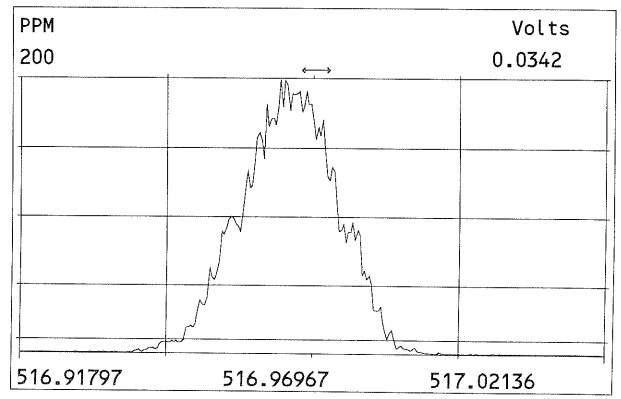












USEPA - ITD

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: 28SEP16Y Sam:1 Analysis Date: 28-SEP-16 15:21:37

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.13	2.66-3.60	y	46.3	37.5 - 62.5
PCB-3	M/M+2	3.08	2.66-3.60	y	46.6	37.5 - 62.5
PCB-4	M/M+2	1.54	1.33-1.79	y	46.1	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	47.0	37.5 - 62.5
PCB-19	M/M+2	1.02	0.88-1.20	y	45.0	37.5 - 62.5
PCB-37	M/M+2	1.01	0.88-1.20	y	48.0	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	0.74	0.65-0.89	y	46.3	37.5 - 62.5
PCB-81	M/M+2	0.76	0.65-0.89	y	46.9	37.5 - 62.5
PCB-104	M+2/M+4	1.56	1.32-1.78	y	49.8	37.5 - 62.5
PCB-105	M+2/M+4	1.51	1.32-1.78	y	46.2	37.5 - 62.5
PCB-114	M+2/M+4	1.53	1.32-1.78	y	46.3	37.5 - 62.5
PCB-118	M+2/M+4	1.53	1.32-1.78	y	49.0	37.5 - 62.5
PCB-123	M+2/M+4	1.52	1.32-1.78	y	47.4	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	47.9	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	47.6	37.5 - 62.5
PCB-156	M+2/M+4	1.23	1.05-1.43	y	48.4	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	50.0	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	50.1	37.5 - 62.5
PCB-169	M+2/M+4	1.22	1.05-1.43	y	47.3	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	50.4	37.5 - 62.5
PCB-189	M+2/M+4	1.04	0.89-1.21	y	48.8	37.5 - 62.5
PCB-202	M+2/M+4	0.87	0.76-1.02	y	47.0	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	52.4	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	52.7	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	51.5	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	47.5	37.5 - 62.5

Analyst: _____ Date: 9/30/16

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: 28SEP16Y Sam:1 Analysis Date: 28-SEP-16 15:21:37

	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	3.08	2.66-3.60	y	110	50.0 - 145
13C-PCB-3	M/M+2	3.13	2.66-3.60	y	114	50.0 - 145
13C-PCB-4	M/M+2	1.54	1.33-1.79	y	99.8	50.0 - 145
13C-PCB-15	M/M+2	1.57	1.33-1.79	y	105	50.0 - 145
13C-PCB-19	M/M+2	1.04	0.88-1.20	y	113	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	80.0	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	93.7	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	87.3	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	84.9	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	108	50.0 - 145
13C-PCB-105	M+2/M+4	1.58	1.32-1.78	y	89.4	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	89.5	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	86.9	50.0 - 145
13C-PCB-123	M+2/M+4	1.56	1.32-1.78	y	87.6	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	90.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	109	50.0 - 145
13C-PCB-156	M+2/M+4	1.25	1.05-1.43	y	98.9	50.0 - 145
13C-PCB-157	M+2/M+4	1.24	1.05-1.43	y	97.1	50.0 - 145
13C-PCB-167	M+2/M+4	1.25	1.05-1.43	y	95.9	50.0 - 145
13C-PCB-169	M+2/M+4	1.24	1.05-1.43	y	96.2	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	1.07	0.89-1.21	y	95.8	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	125	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	99.1	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	108	50.0 - 145
13C-PCB-208	M+2/M+4	0.79	0.65-0.89	y	117	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	122	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	74.3	65.0 - 135
13C-PCB-111	M+2/M+4	1.56	1.32-1.78	y	101	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	113	75.0 - 125

Analyst: [signature] Date: 9/30/16

FAL ID: ST092816Y1 Filename: 28SEP16Y Sam:1 Acquired: 28-SEP-16 15:21:37 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R160816B ConCal: ST092816Y1 EndCal: ST092816Y2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	8.17e+07	3.13 y	14:29	1.05	46.3		2.50	-	-	*	-
13C-PCB-1	1.68e+08	3.08 y	14:28	1.14	110		2.50				110
PCB-3	8.29e+07	3.08 y	16:54	1.05	46.6		2.50	-	-	*	-
13C-PCB-3	1.70e+08	3.13 y	16:53	1.11	114		2.50				114
PCB-4	4.76e+07	1.54 y	18:09	1.14	46.1		2.50	-	-	*	-
13C-PCB-4	9.08e+07	1.54 y	18:08	0.68	99.8		2.50				99.8
PCB-15	7.42e+07	1.56 y	23:40	1.09	47.0		2.50	-	-	*	-
13C-PCB-15	1.45e+08	1.57 y	23:39	1.02	105		2.50				105
PCB-19	4.90e+07	1.02 y	22:02	1.16	45.0		2.50	-	-	*	-
13C-PCB-19	9.38e+07	1.04 y	22:01	0.61	113		2.50				113
13C-PCB-9	1.35e+08	1.55 y	19:48	-	98.6		2.50				
PCB-37	5.69e+07	1.01 y	30:19	1.14	48.0		2.50	-	-	*	-
13C-PCB-37	1.04e+08	1.06 y	30:17	1.38	80.0		2.50				80.0
PCB-54	5.79e+07	0.78 y	25:34	1.05	49.8		2.50	-	-	*	-
13C-PCB-54	1.11e+08	0.81 y	25:33	1.25	93.7		2.50				93.7
PCB-104	5.25e+07	1.56 y	30:01	1.14	49.8		2.50	-	-	*	-
13C-PCB-104	9.24e+07	1.60 y	29:60	0.91	108		2.50				108
13C-PCB-28	1.04e+08	1.07 y	26:37	1.48	74.3		2.50				74.3
13C-PCB-52	9.43e+07	0.79 y	28:54	-	113		2.50				
PCB-81	4.95e+07	0.76 y	36:05	1.14	46.9		2.50	-	-	*	-
13C-PCB-81	9.23e+07	0.79 y	36:03	1.27	84.9		2.50				84.9
PCB-77	4.84e+07	0.74 y	36:38	1.10	46.3		2.50	-	-	*	-
13C-PCB-77	9.48e+07	0.80 y	36:36	1.27	87.3		2.50				87.3
PCB-155	5.33e+07	1.28 y	34:11	1.11	47.6		2.50	-	-	*	-
13C-PCB-155	1.01e+08	1.28 y	34:10	1.09	109		2.50				109
13C-PCB-111	1.08e+08	1.56 y	36:14	1.25	101		2.50				101
13C-PCB-101	8.54e+07	1.58 y	34:35	-	117		2.50				
PCB-123	3.99e+07	1.52 y	38:17	1.05	47.4		2.50	-	-	*	-
13C-PCB-123	8.01e+07	1.56 y	38:15	1.20	87.6		2.50				87.6
PCB-118	4.53e+07	1.53 y	38:27	1.07	49.0		2.50	-	-	*	-
13C-PCB-118	8.67e+07	1.58 y	38:25	1.31	86.9		2.50				86.9
PCB-114	4.22e+07	1.53 y	39:05	1.08	46.3		2.50	-	-	*	-
13C-PCB-114	8.40e+07	1.59 y	39:03	1.23	89.5		2.50				89.5
PCB-105	4.21e+07	1.51 y	39:52	1.08	46.2		2.50	-	-	*	-
13C-PCB-105	8.44e+07	1.58 y	39:51	1.24	89.4		2.50				89.4
PCB-126	4.14e+07	1.55 y	41:59	1.07	47.9		2.50	-	-	*	-
13C-PCB-126	8.09e+07	1.59 y	41:57	1.17	90.7		2.50				90.7
PCB-167	4.44e+07	1.24 y	43:21	0.98	50.1		2.50	-	-	*	-
13C-PCB-167	9.05e+07	1.25 y	43:20	1.24	95.9		2.50				95.9
PCB-156	4.35e+07	1.23 y	44:35	1.01	48.4		2.50	-	-	*	-
13C-PCB-156	8.88e+07	1.25 y	44:34	1.18	98.9		2.50				98.9
PCB-157	4.35e+07	1.24 y	44:50	0.96	50.0		2.50	-	-	*	-
13C-PCB-157	9.04e+07	1.24 y	44:49	1.22	97.1		2.50				97.1
PCB-169	3.83e+07	1.22 y	46:42	1.00	47.3		2.50	-	-	*	-
13C-PCB-169	8.11e+07	1.24 y	46:42	1.11	96.2		2.50				96.2
PCB-188	5.16e+07	1.05 y	39:39	1.09	50.4		2.50	-	-	*	-
13C-PCB-188	9.36e+07	1.06 y	39:39	1.22	101		2.50				101
PCB-189	3.93e+07	1.04 y	48:24	1.14	48.8		2.50	-	-	*	-
13C-PCB-189	7.07e+07	1.07 y	48:23	0.97	95.8		2.50				95.8
PCB-202	4.14e+07	0.87 y	44:47	1.05	47.0		2.50	-	-	*	-
13C-PCB-202	8.36e+07	0.91 y	44:45	0.88	125		2.50				125
13C-PCB-178	6.61e+07	1.06 y	42:17	0.77	113		2.50				113
13C-PCB-138	7.61e+07	1.25 y	41:29	-	109		2.50				

FAL ID: ST092816Y1 Filename: 28SEP16Y Sam:1 Acquired: 28-SEP-16 15:21:37 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R160816B ConCal: ST092816Y1 EndCal: ST092816Y2
Results: GC Column: DB1 Amount: 1.000

PCB-205	3.08e+07	0.88	y	50:04	1.02	52.4	2.50	-	-	*	-
13C-PCB-205	5.78e+07	0.91	y	50:02	1.38	99.1	2.50				99.1
PCB-208	3.10e+07	1.34	y	49:07	0.93	51.5	2.50	-	-	*	-
13C-PCB-208	6.47e+07	0.79	y	49:07	1.31	117	2.50				117
PCB-206	2.29e+07	1.36	y	51:14	0.94	52.7	2.50	-	-	*	-
13C-PCB-206	4.63e+07	0.79	y	51:14	1.01	108	2.50				108
PCB-209	3.62e+07	1.18	y	52:26	1.10	47.5	2.50	-	-	*	-
13C-PCB-209	6.91e+07	1.19	y	52:25	1.34	122	2.50				122
13C-PCB-194	4.23e+07	0.90	y	49:47	-	83.9	2.50				

Analyst: [illegible] Date: 9/30/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:28SEP16Y Instrument: FAL4 GC: DB1 Experiment:1668PCB

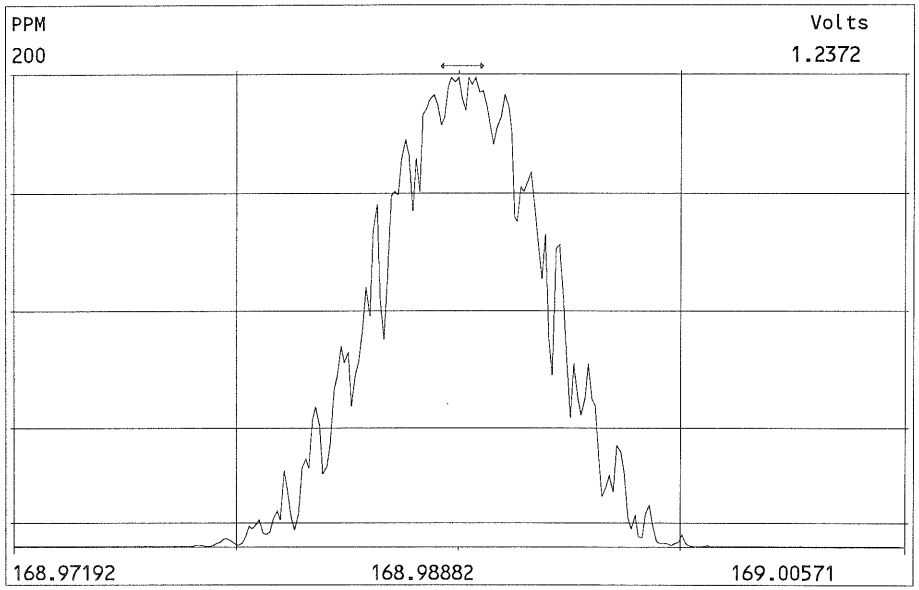
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
28SEP16Y	1	ST092816Y1	1668 CS3 R160816B	28-SEP-16 15:21:37	ST092816Y1	ST092816Y2	BS
28SEP16Y	2	SS092816Y1	Daily 209 160711B	28-SEP-16 16:18:07	ST092816Y1	ST092816Y2	BS
28SEP16Y	3	03855-001-0001-OPR	OPR	28-SEP-16 17:14:39	ST092816Y1	ST092816Y2	BS
28SEP16Y	4	03857-001-0001-OPR	OPR	28-SEP-16 18:11:10	ST092816Y1	ST092816Y2	BS
28SEP16Y	5	03857-001-0001-MB	Method Blank	28-SEP-16 19:07:40	ST092816Y1	ST092816Y2	BS
28SEP16Y	6	10143-002-0001-SA	AA47757, FEG(Final Effluent-	28-SEP-16 20:04:09	ST092816Y1	ST092816Y2	BS
28SEP16Y	7	10145-002-0001-SA	E1609006C	28-SEP-16 21:00:39	ST092816Y1	ST092816Y2	BS
28SEP16Y	8	10147-001-0001-SA	LDW-BA-SC-ENR+AC-CA-CORE	28-SEP-16 21:57:08	ST092816Y1	ST092816Y2	BS
28SEP16Y	9	10147-002-0001-SA	LDW-BA-SC-ENR+AC-CB-CORE	28-SEP-16 22:53:36	ST092816Y1	ST092816Y2	BS
28SEP16Y	10	10147-003-0001-SA	LDW-BA-SC-ENR+AC-CC-CORE	28-SEP-16 23:50:04	ST092816Y1	ST092816Y2	BS
28SEP16Y	11	10147-006-0001-SA	LDW-BA-SC-ENR-CA-CORE	29-SEP-16 00:46:31	ST092816Y1	ST092816Y2	BS
28SEP16Y	12	10147-007-0001-SA	LDW-BA-SC-ENR-CB-CORE	29-SEP-16 01:42:58	ST092816Y1	ST092816Y2	BS
28SEP16Y	13	10147-008-0001-SA	LDW-BA-SC-ENR-CC-CORE	29-SEP-16 02:39:25	ST092816Y1	ST092816Y2	BS
28SEP16Y	14	SB092816Y1	Solvent Blank	29-SEP-16 03:35:53	ST092816Y1	ST092816Y2	BS
28SEP16Y	15	ST092816Y2	1668 CS3 R160816B	29-SEP-16 04:32:21	ST092816Y1	ST092816Y2	BS
28SEP16Y	16	SB092816Y2	Solvent Blank	29-SEP-16 05:28:51	ST092816Y2	ST092816Y3	BS
28SEP16Y	17	10147-011-0001-SA	LDW-BA-IN-ENR+AC-CA-CORE	29-SEP-16 06:25:19	ST092816Y2	ST092816Y3	BS
28SEP16Y	18	10147-012-0001-SA	LDW-BA-IN-ENR+AC-CB-CORE	29-SEP-16 07:21:46	ST092816Y2	ST092816Y3	BS
28SEP16Y	19	10147-013-0001-SA	LDW-BA-IN-ENR+AC-CC-CORE	29-SEP-16 08:18:15	ST092816Y2	ST092816Y3	BS
28SEP16Y	20	10147-015-0001-SA	LDW-BA-IN-ENR-CA-CORE	29-SEP-16 09:14:45	ST092816Y2	ST092816Y3	BS
28SEP16Y	21	10147-016-0001-SA	LDW-BA-IN-ENR-CB-CORE	29-SEP-16 10:11:13	ST092816Y2	ST092816Y3	BS
28SEP16Y	22	10147-017-0001-SA	LDW-BA-IN-ENR-CC-CORE	29-SEP-16 11:07:43	ST092816Y2	ST092816Y3	BS
28SEP16Y	23	ST092816Y3	1668 CS3 R160816B	29-SEP-16 12:04:13	ST092816Y2	ST092816Y3	BS

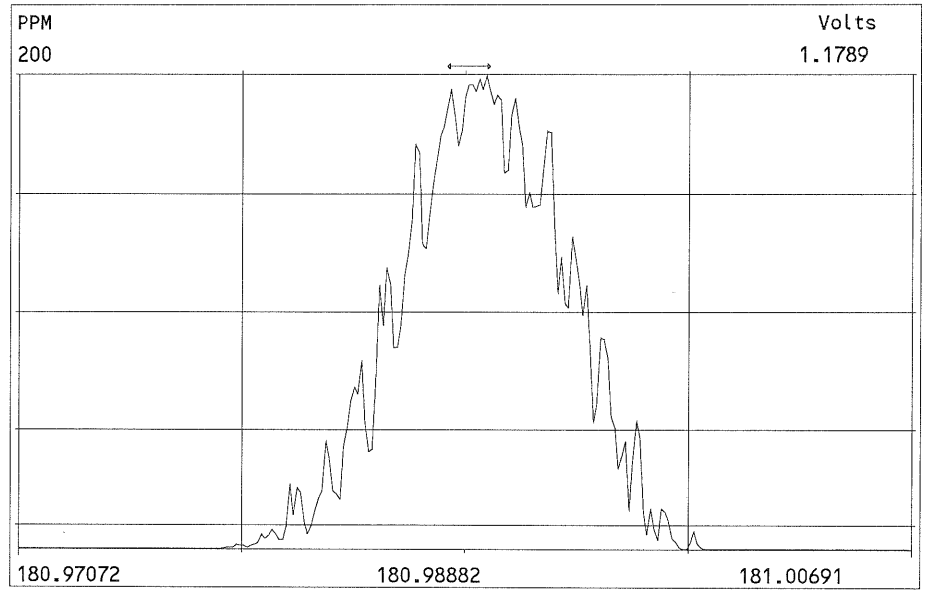
9/30/16

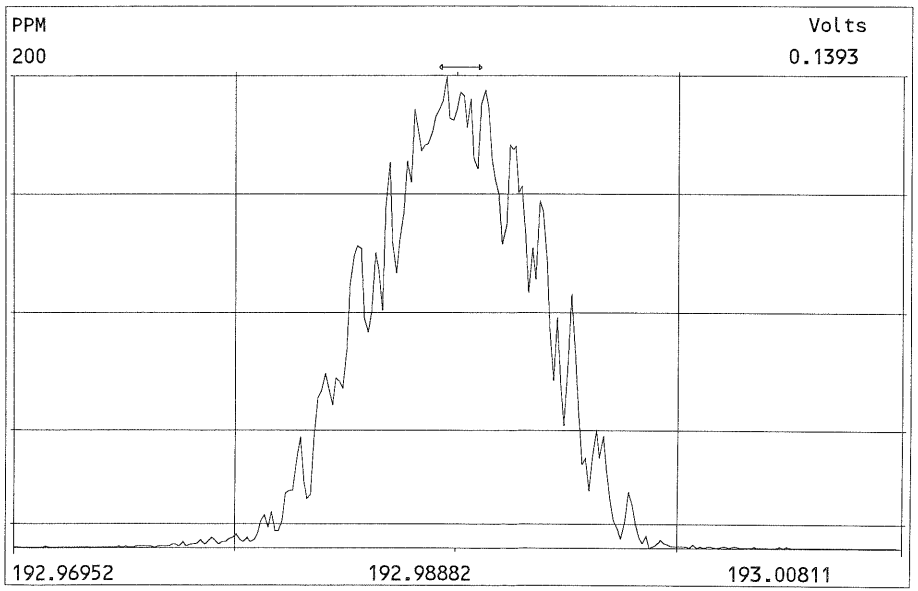
Data Backed Up:_____

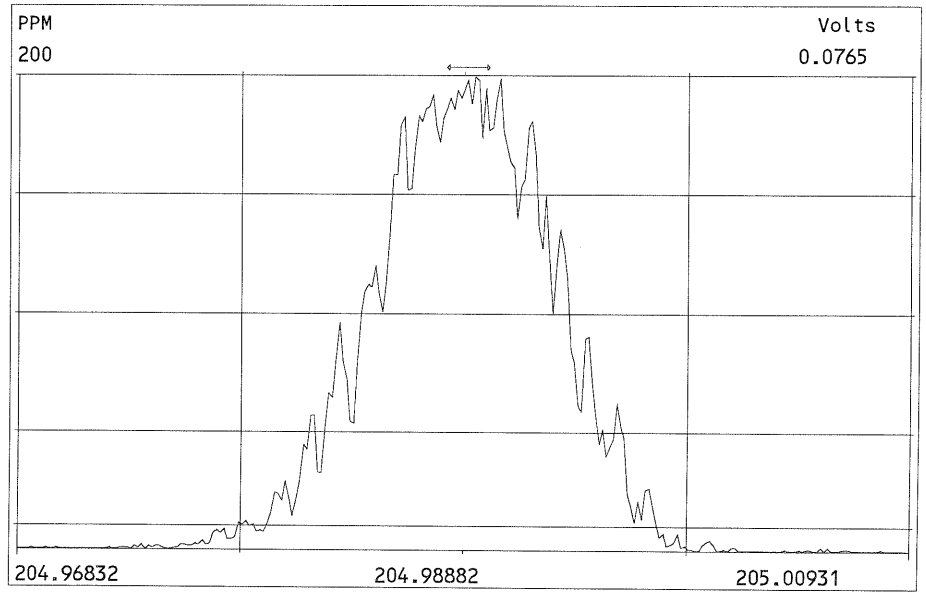
Date:_____

Peak Locate Examination:28-SEP-2016:15:18 File:28SEP16Y
Experiment:1668PCB Function:1 Reference:PFK









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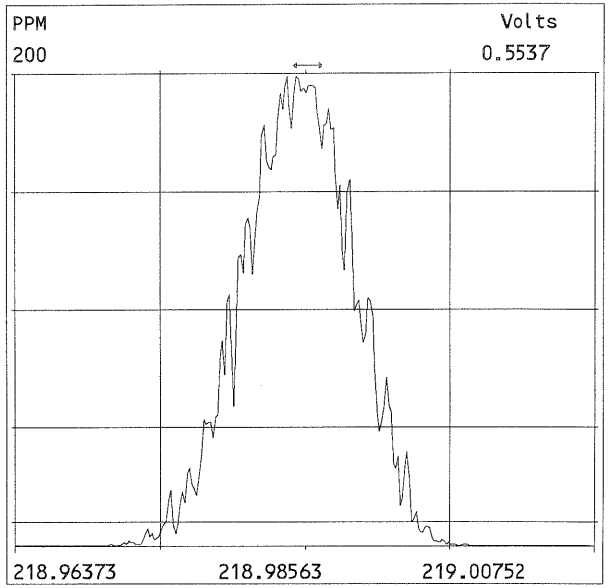
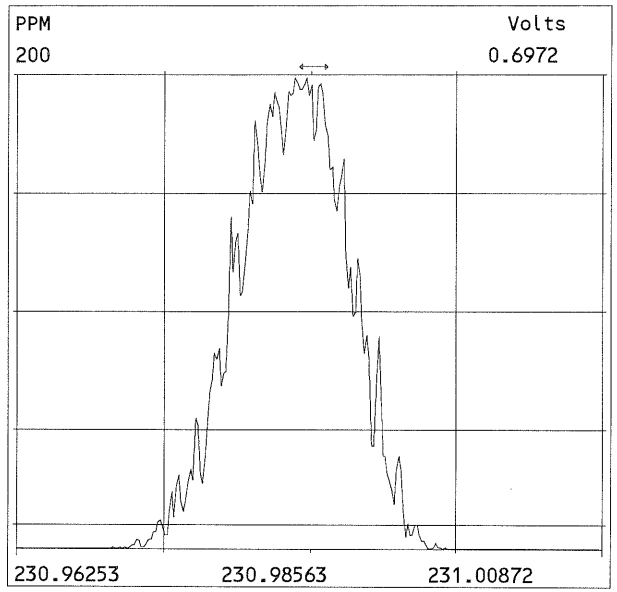
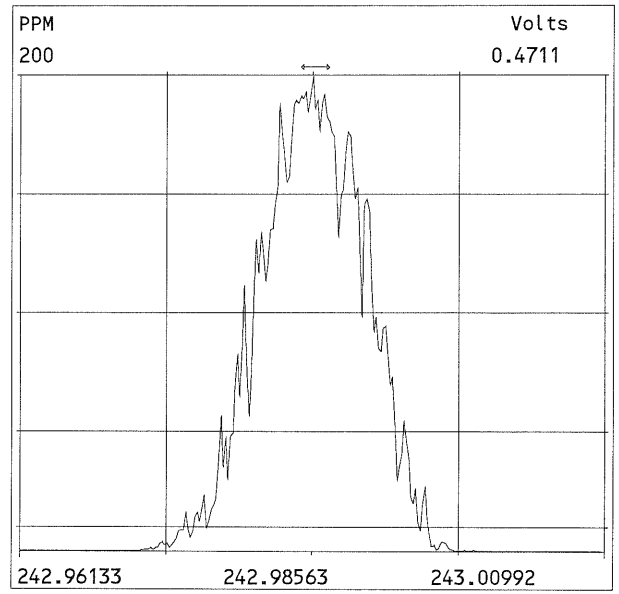
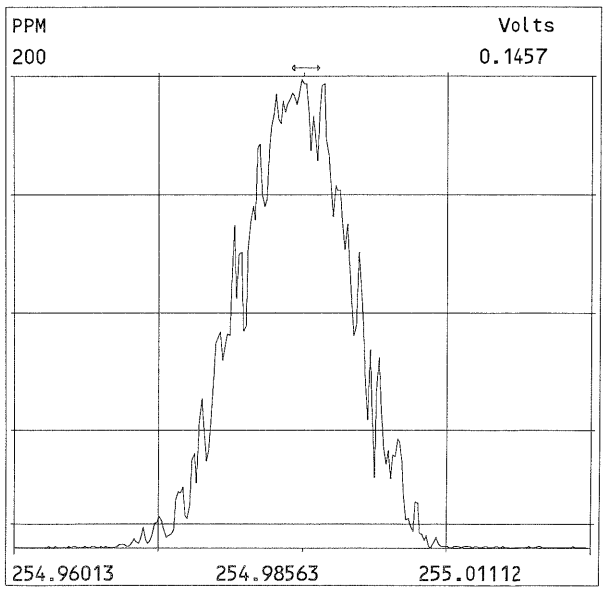
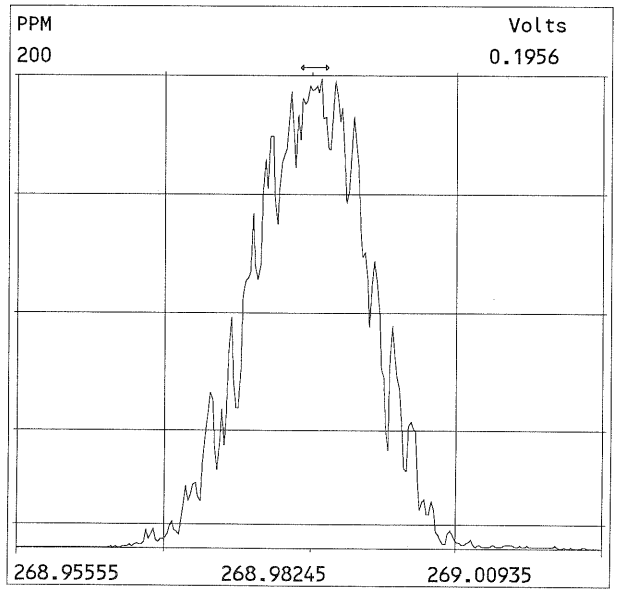
Experiment:1668PCB Function:2 Reference:PFK

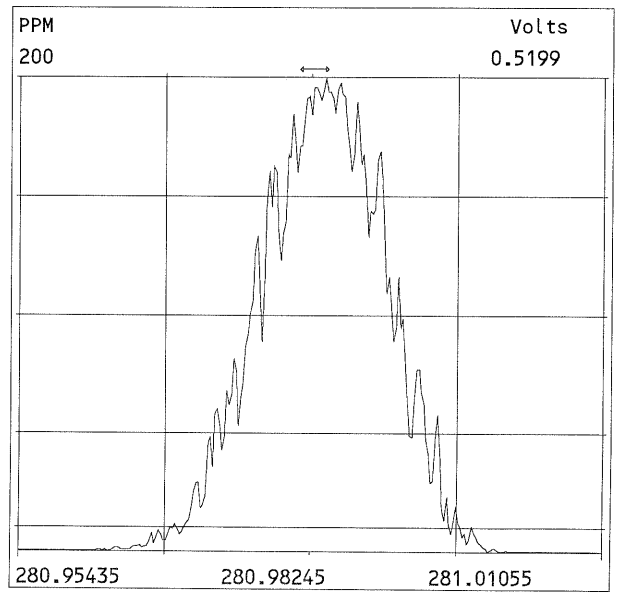




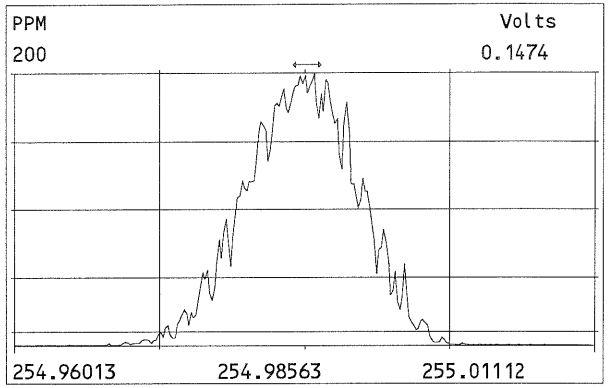


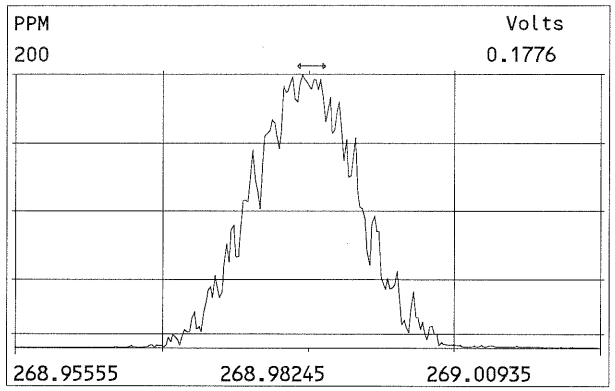


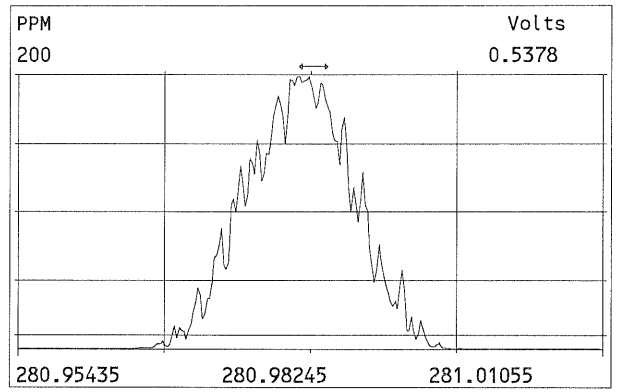


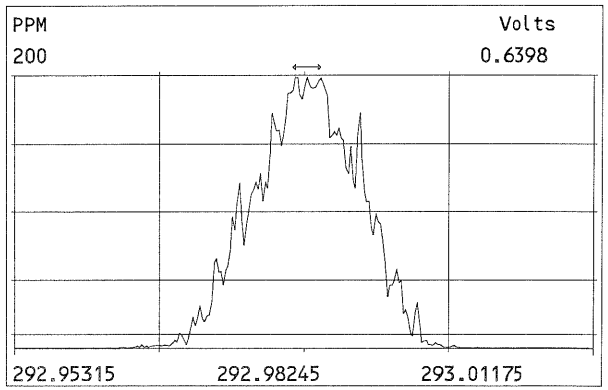


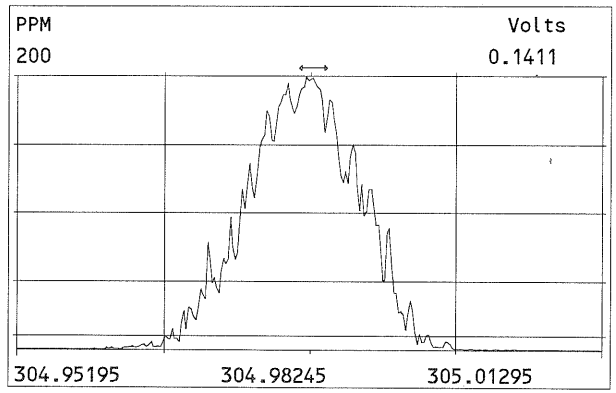
Peak Locate Examination:28-SEP-2016:15:19 File:28SEP16Y
Experiment:1668PCB Function:3 Reference:PFK

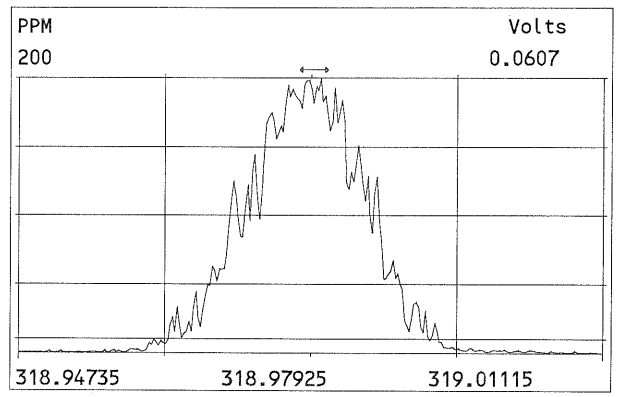


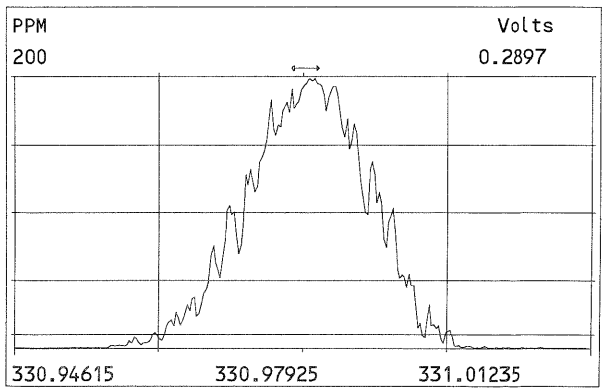


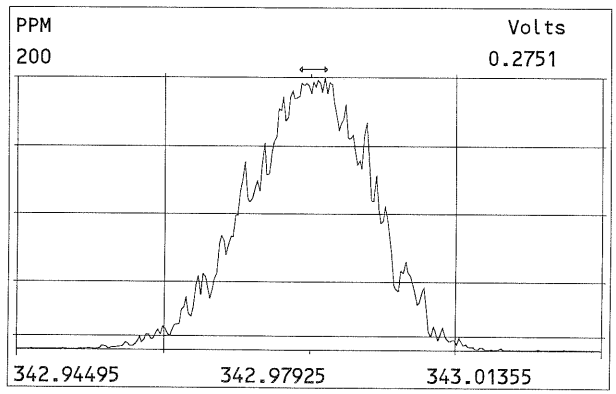




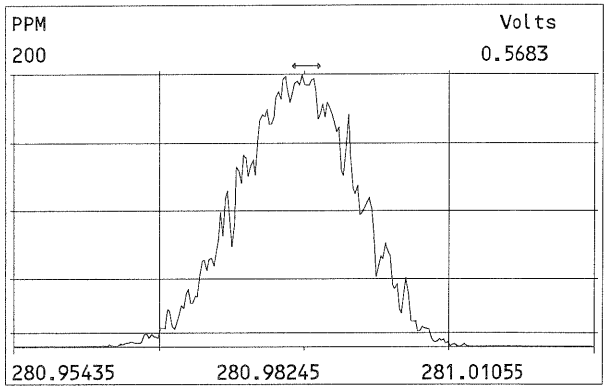


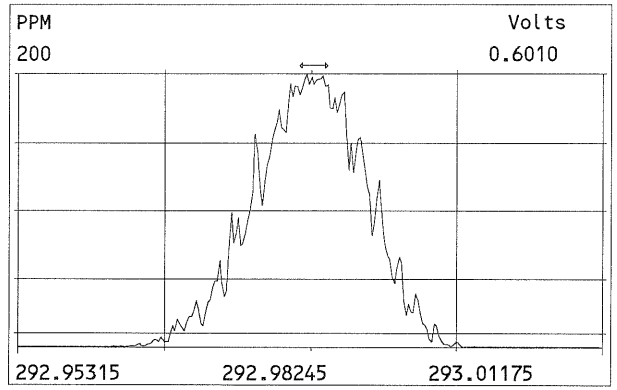


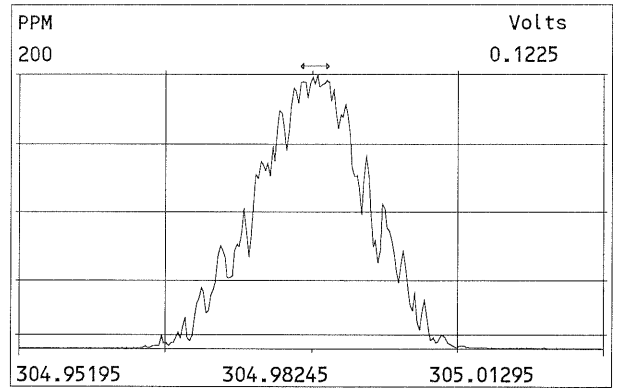


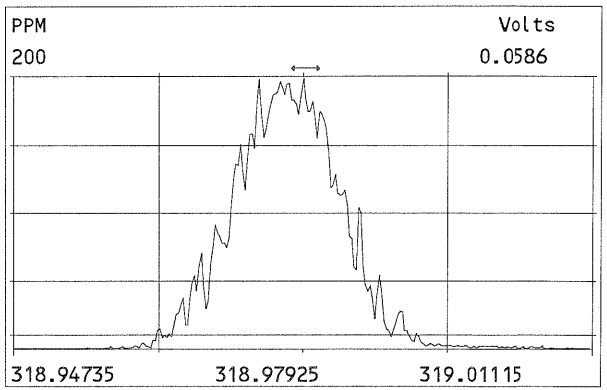


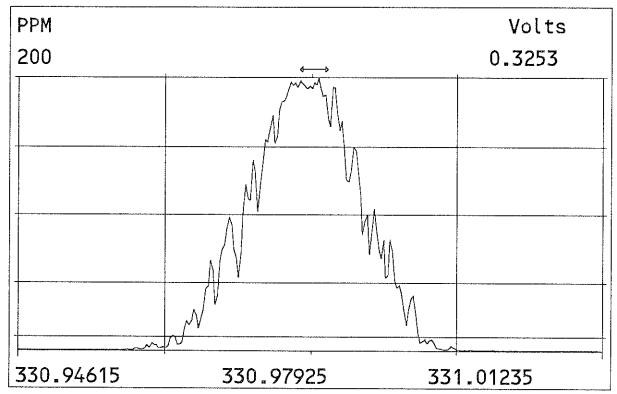
Peak Locate Examination:28-SEP-2016:15:20 File:28SEP16Y
Experiment:1668PCB Function:4 Reference:PFK

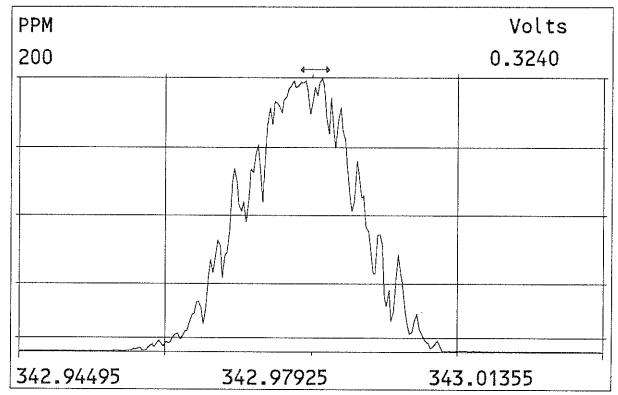


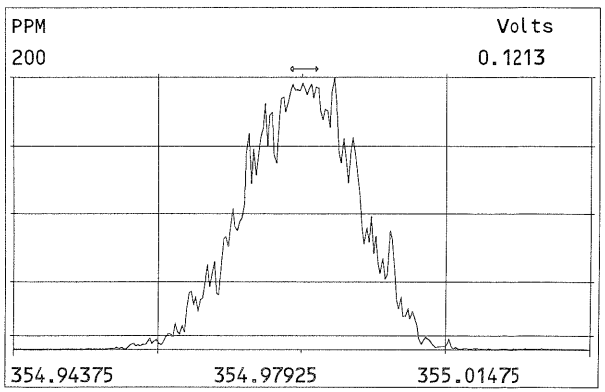


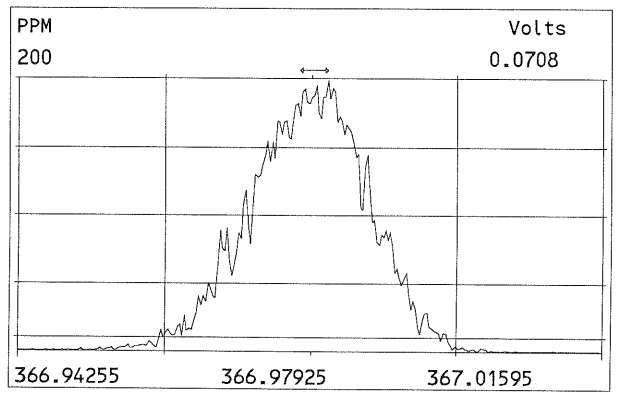


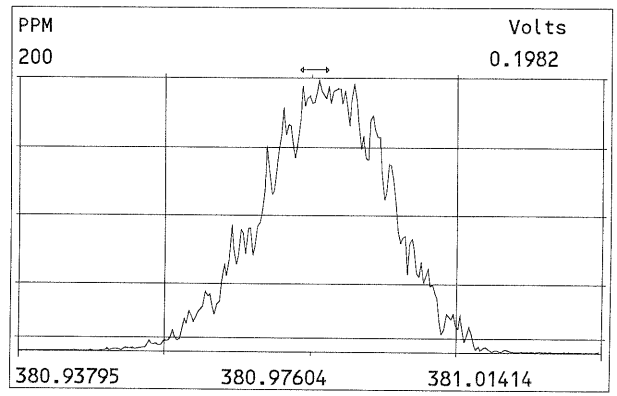




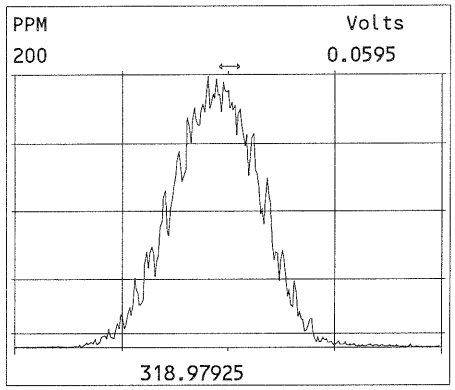


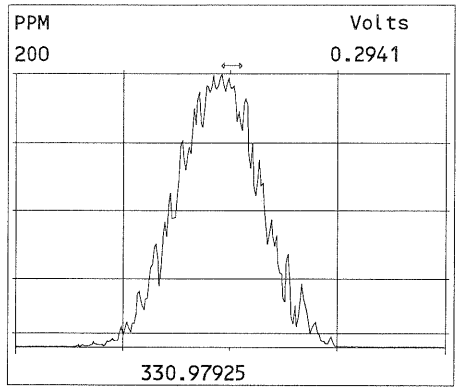


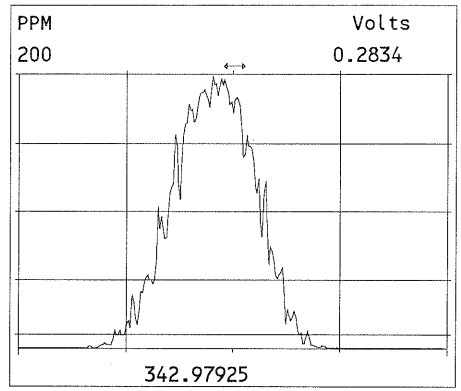


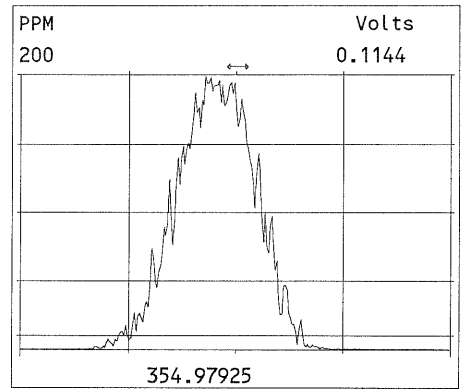


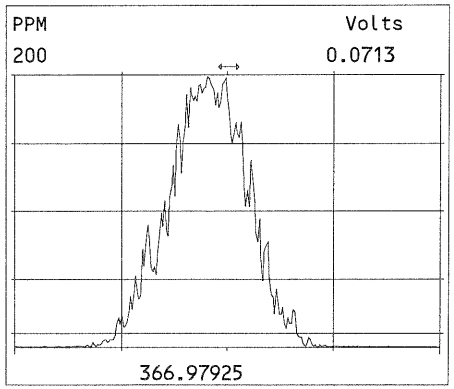
Peak Locate Examination:28-SEP-2016:15:20 File:28SEP16Y
Experiment:1668PCB Function:5 Reference:PFK

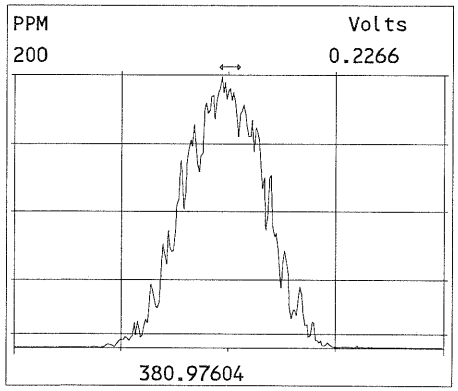


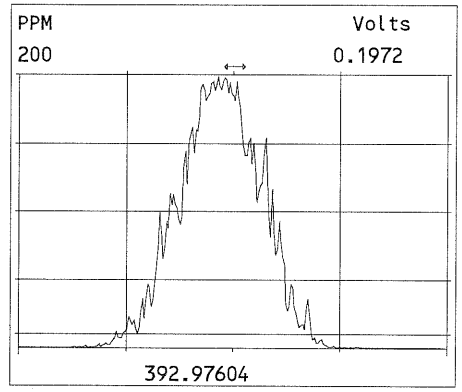


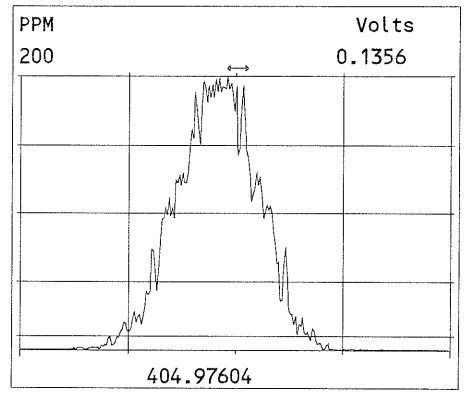


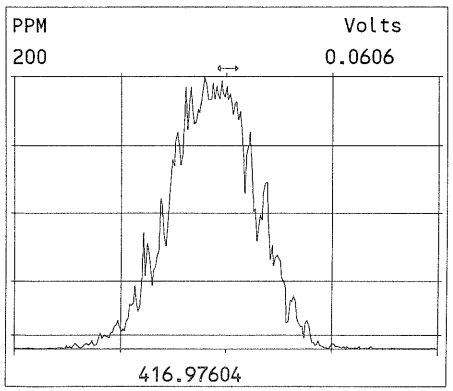


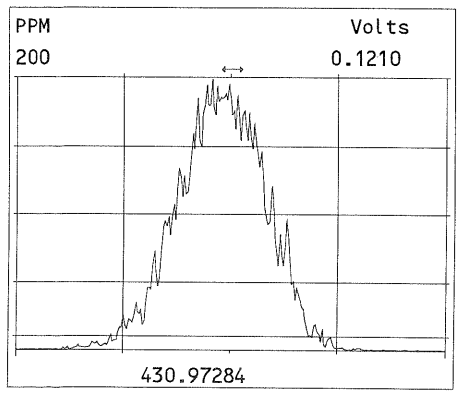


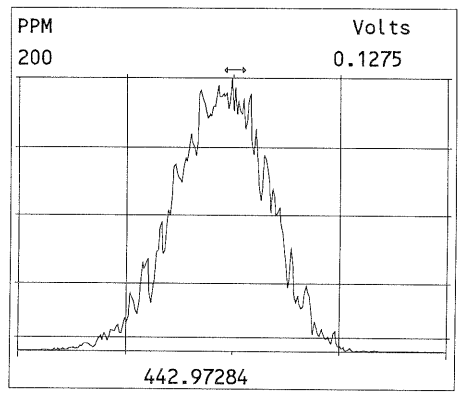




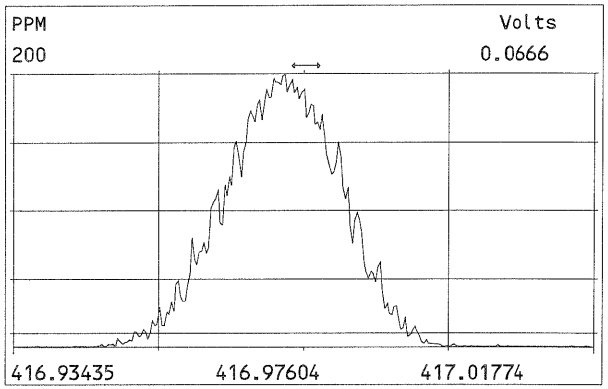


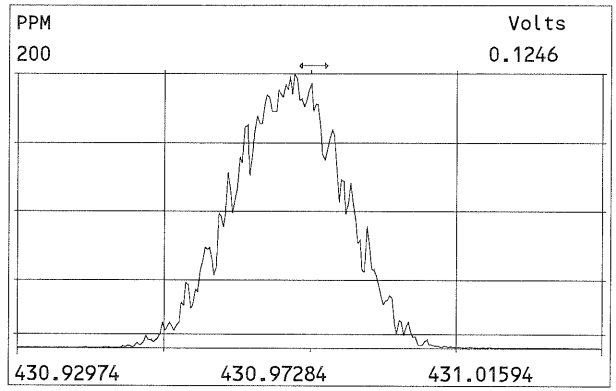


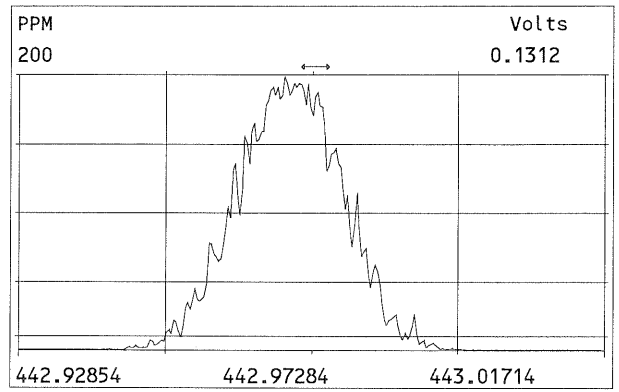


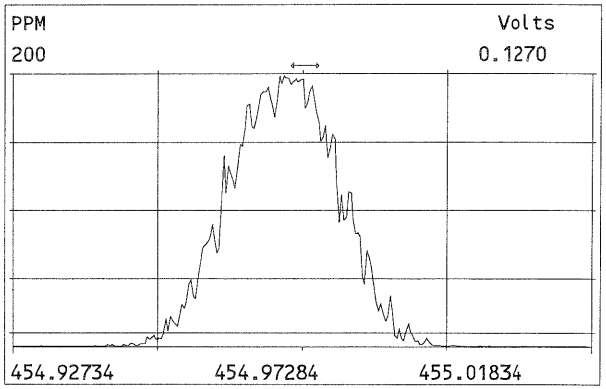


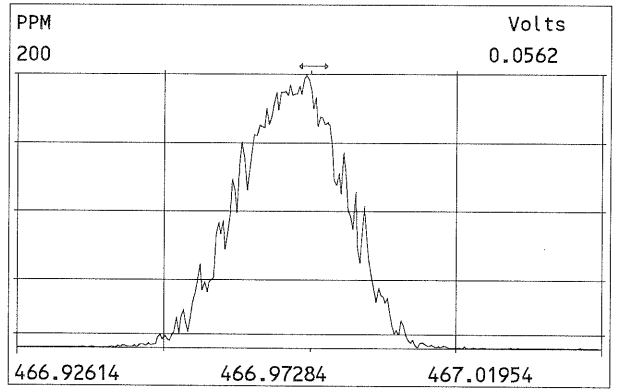
Peak Locate Examination:28-SEP-2016:15:21 File:28SEP16Y
Experiment:1668PCB Function:6 Reference:PFK

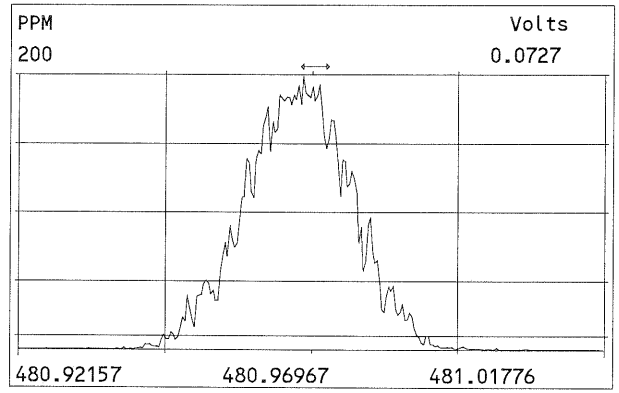


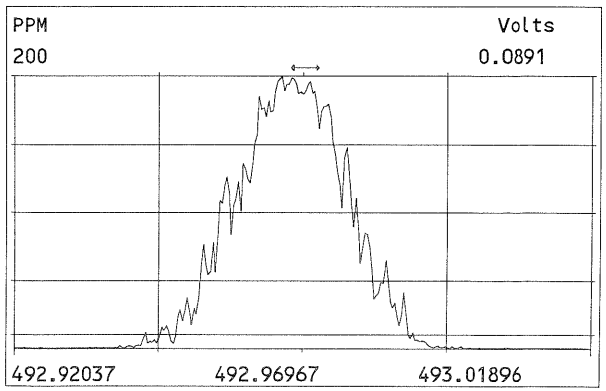


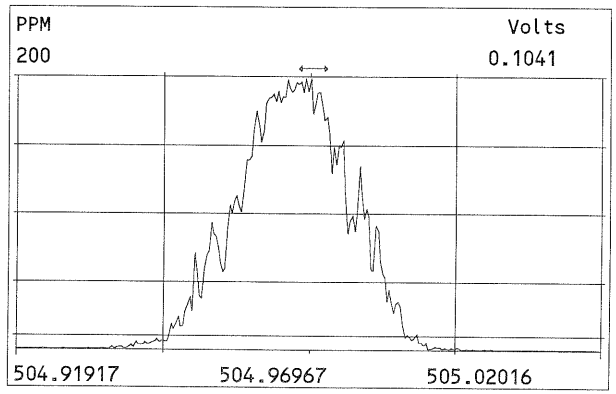


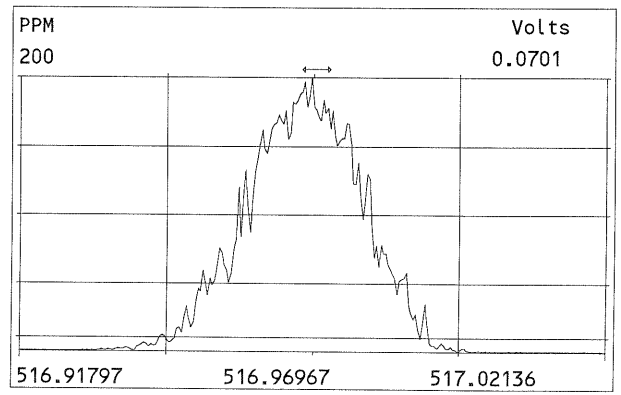




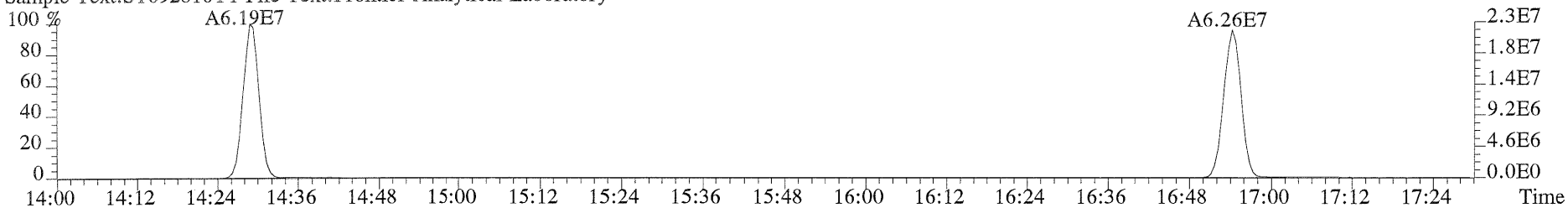




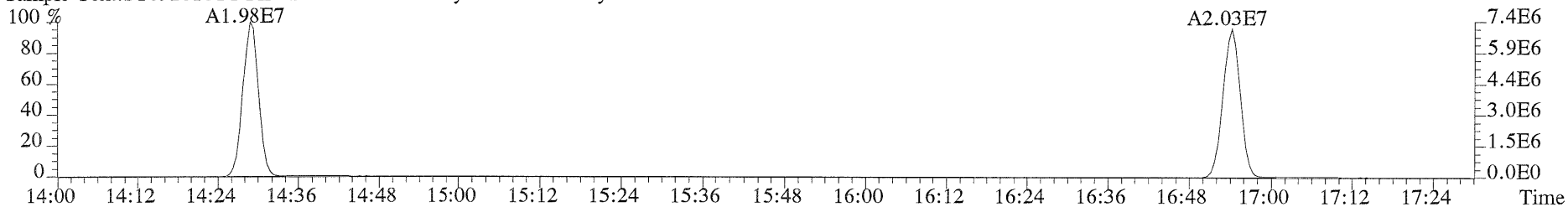




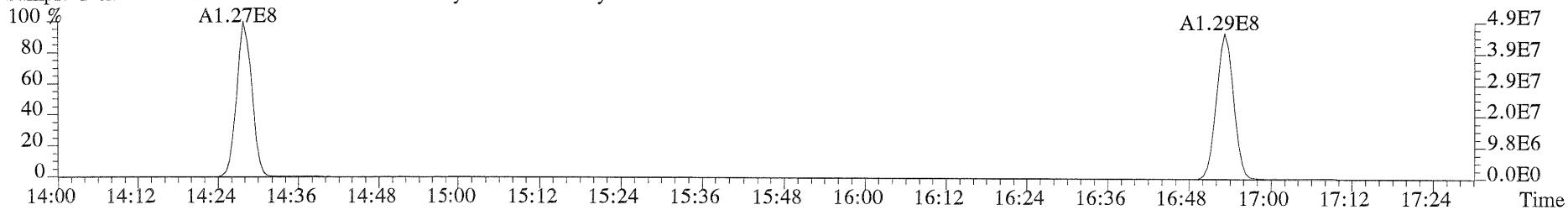
File:28SEP16Y #1-783 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



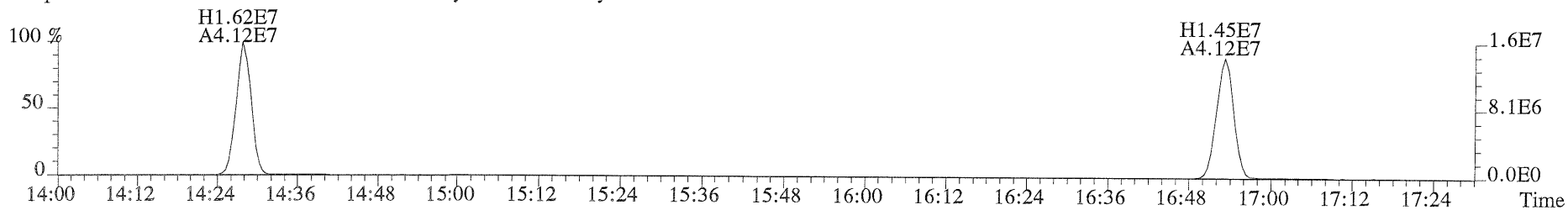
File:28SEP16Y #1-783 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



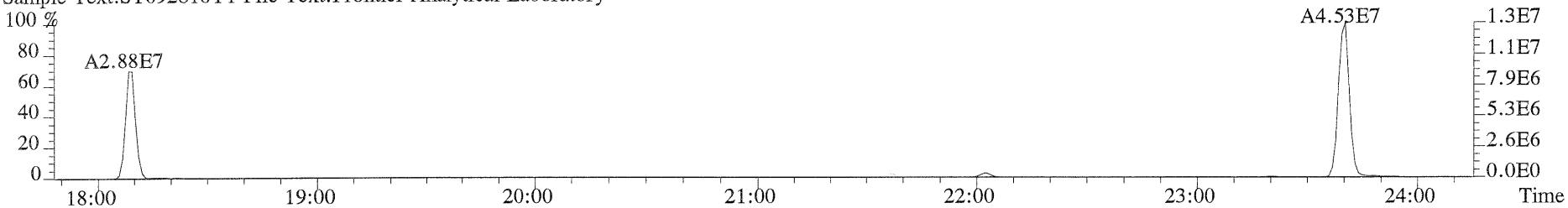
File:28SEP16Y #1-783 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



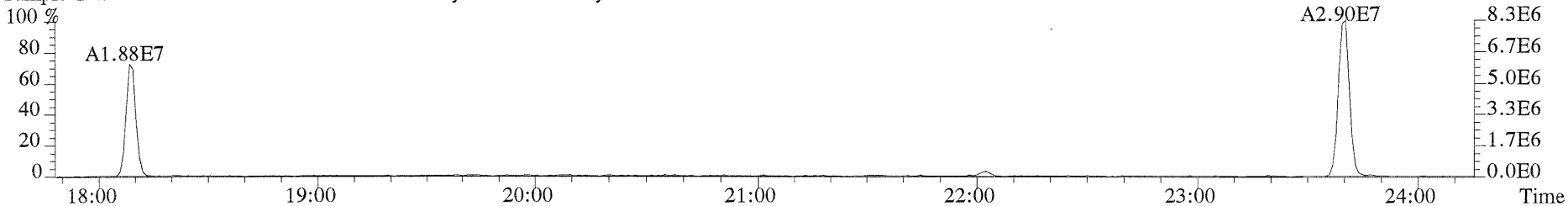
File:28SEP16Y #1-783 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



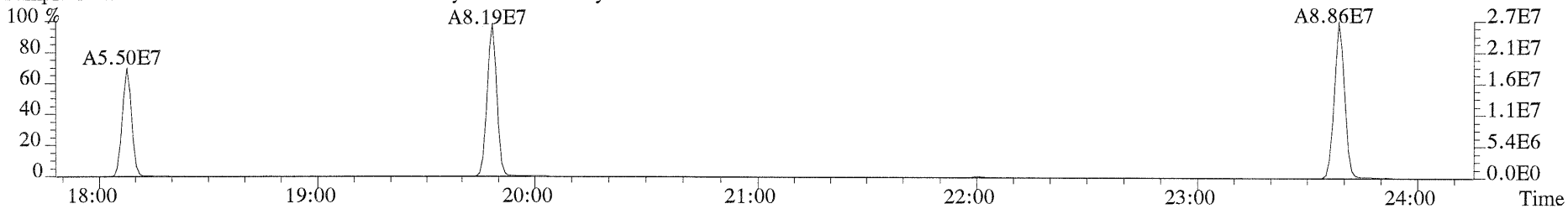
File:28SEP16Y #1-509 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



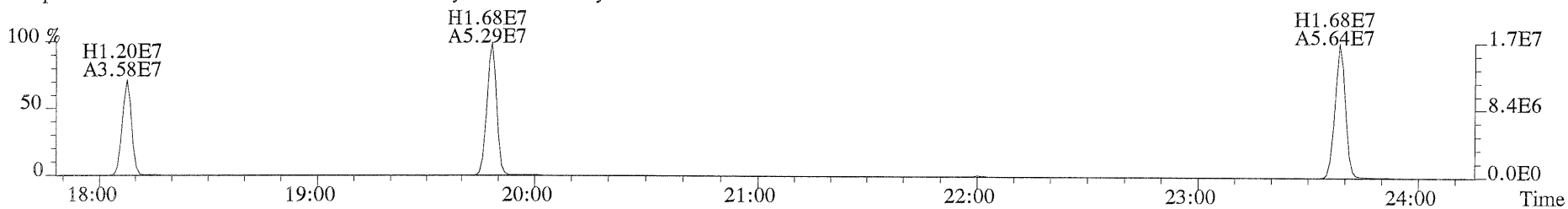
File:28SEP16Y #1-509 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



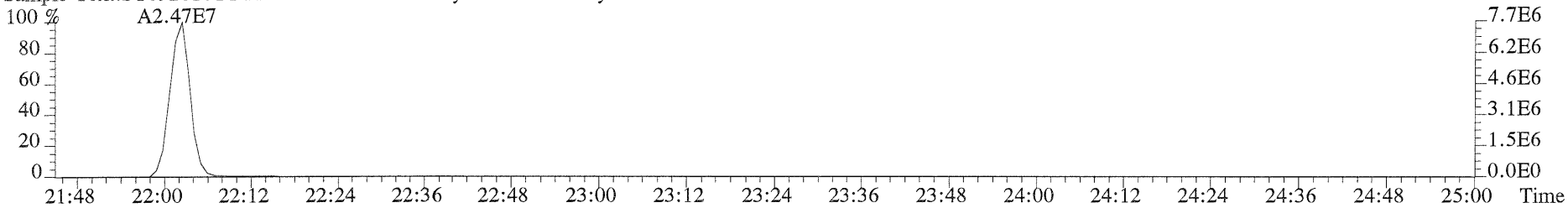
File:28SEP16Y #1-509 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



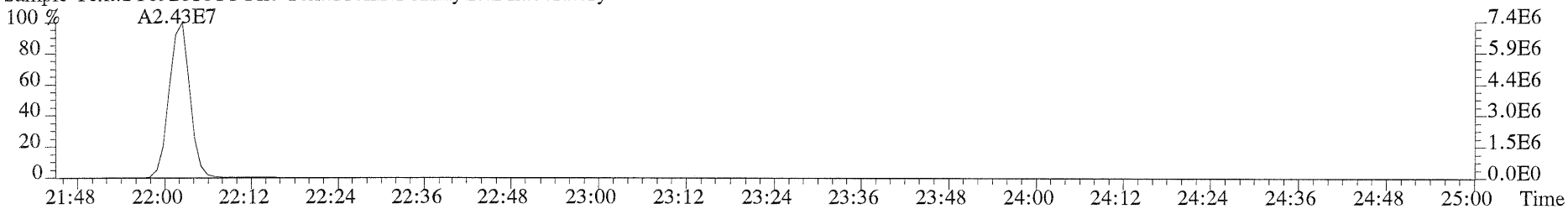
File:28SEP16Y #1-509 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



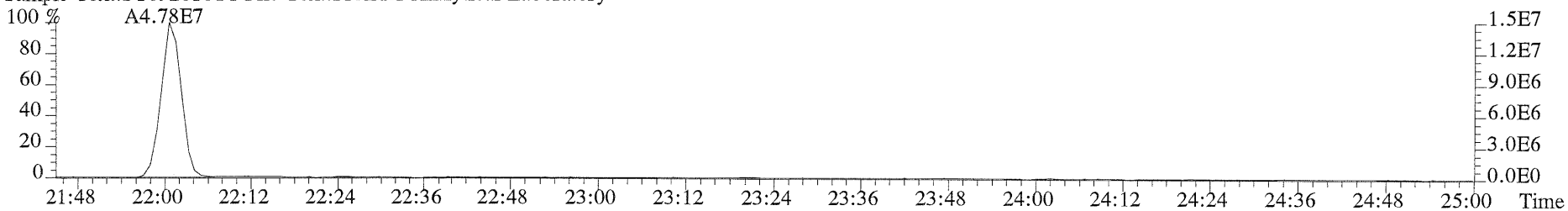
File:28SEP16Y #1-509 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



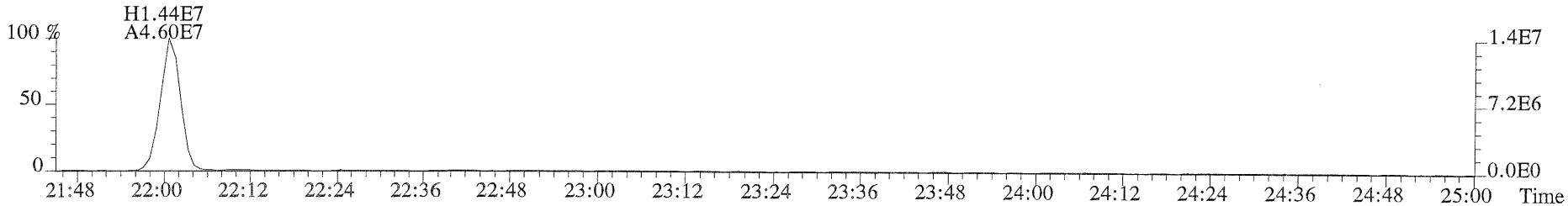
File:28SEP16Y #1-509 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



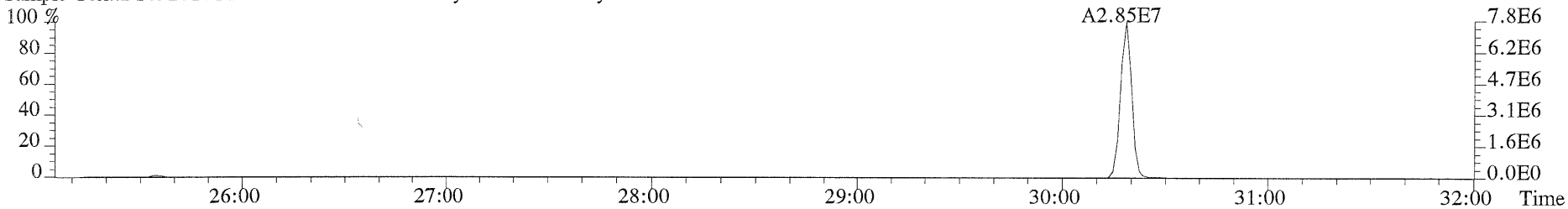
File:28SEP16Y #1-509 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



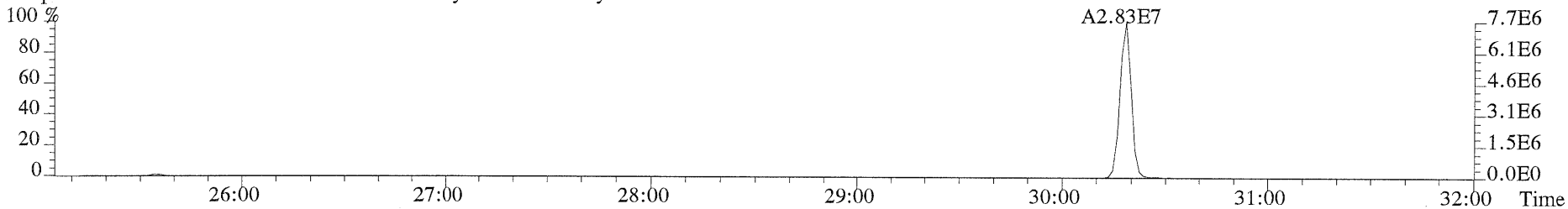
File:28SEP16Y #1-509 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



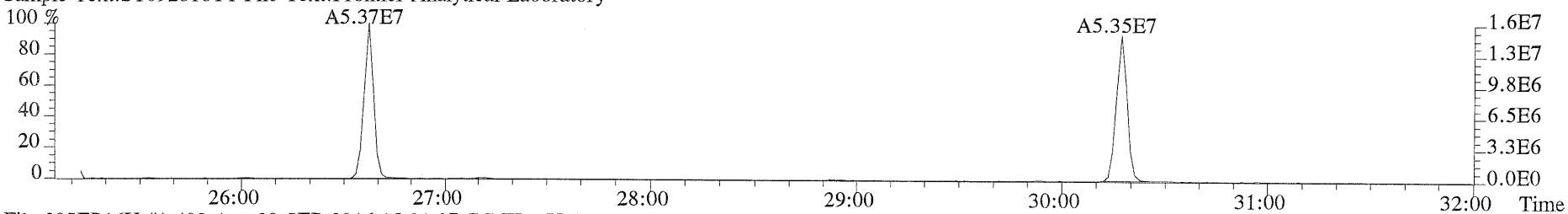
File:28SEP16Y #1-403 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



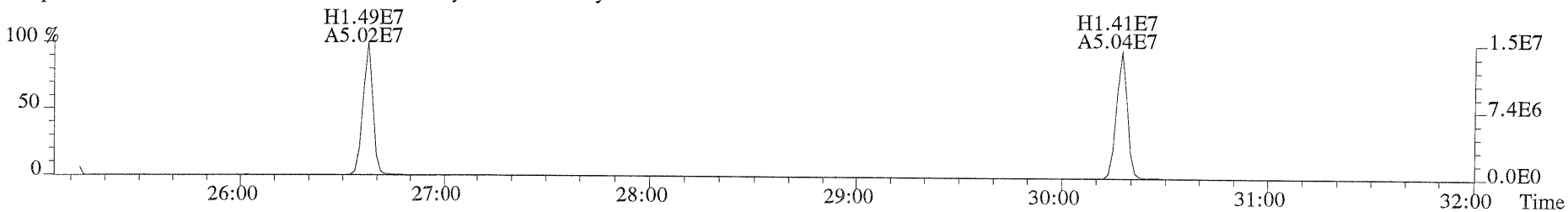
File:28SEP16Y #1-403 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



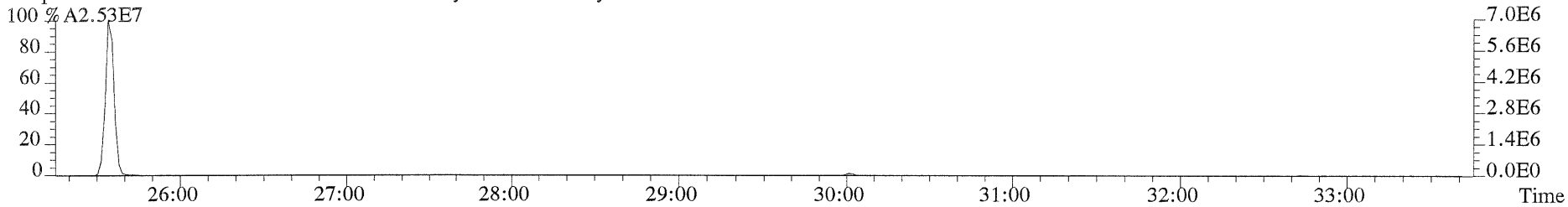
File:28SEP16Y #1-403 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



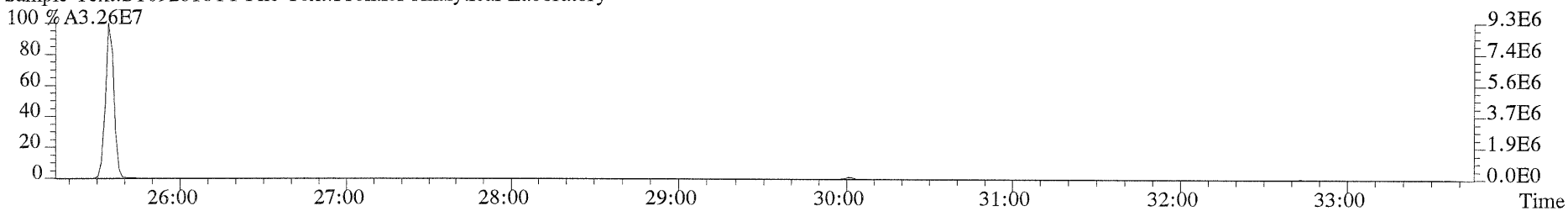
File:28SEP16Y #1-403 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



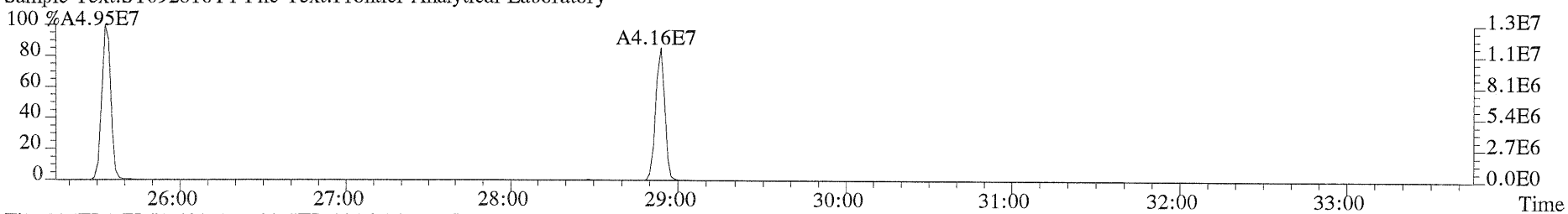
File:28SEP16Y #1-403 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



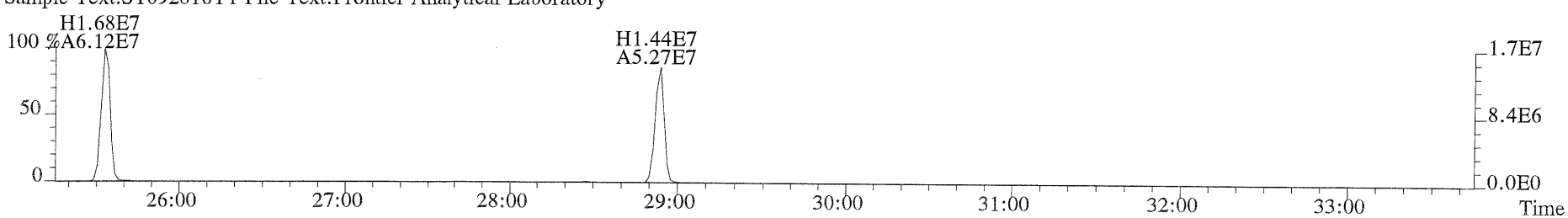
File:28SEP16Y #1-403 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



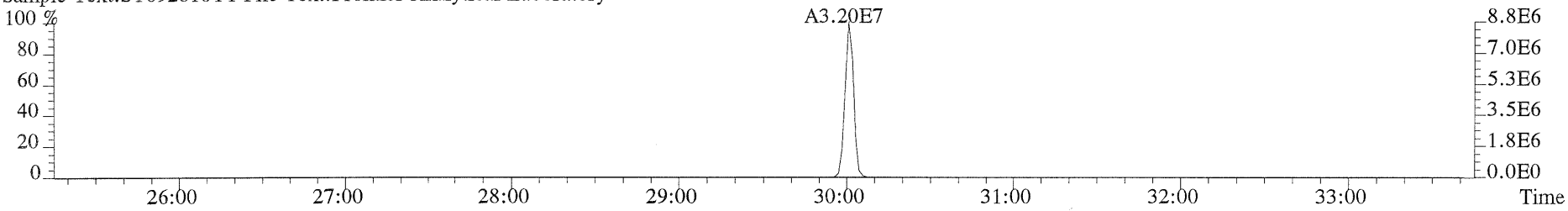
File:28SEP16Y #1-403 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



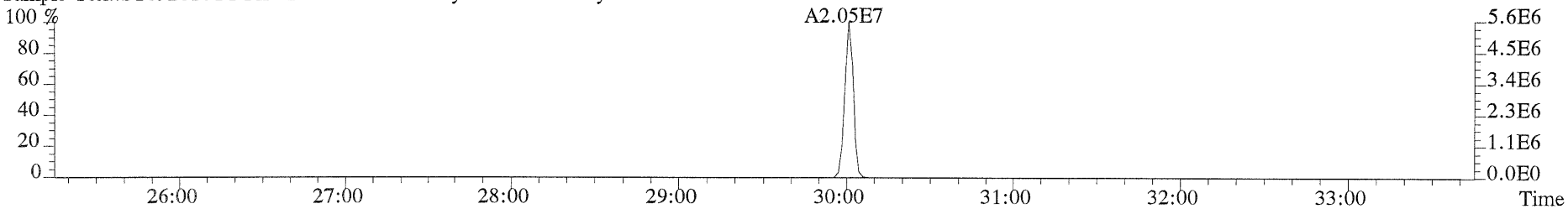
File:28SEP16Y #1-403 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



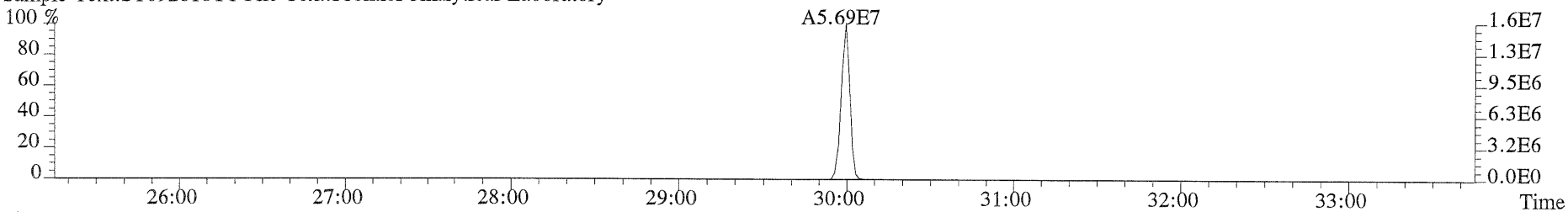
File:28SEP16Y #1-403 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



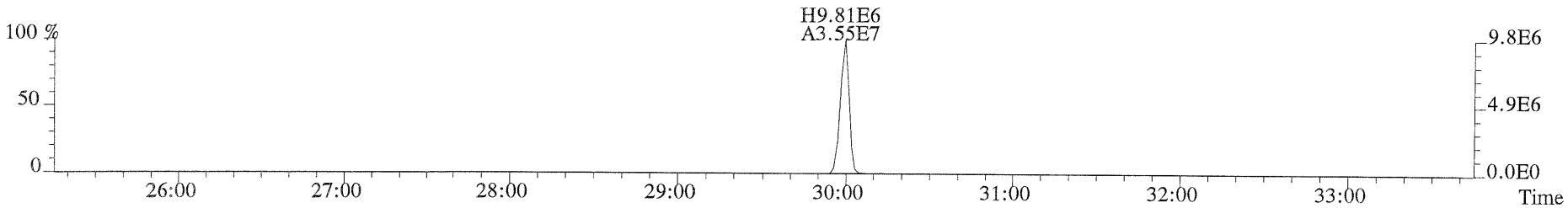
File:28SEP16Y #1-403 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



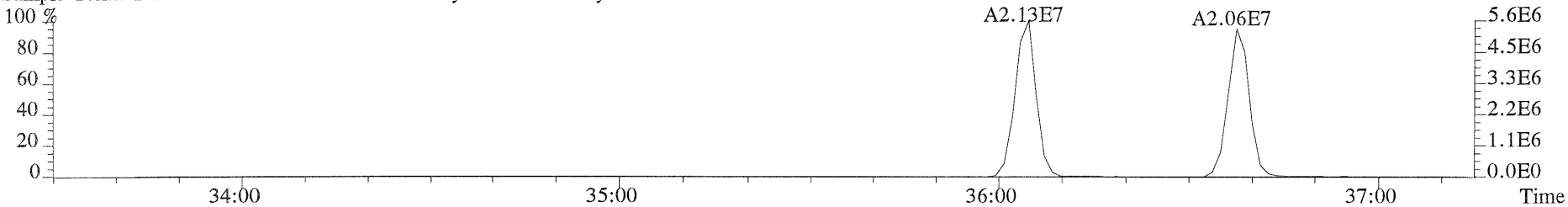
File:28SEP16Y #1-403 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



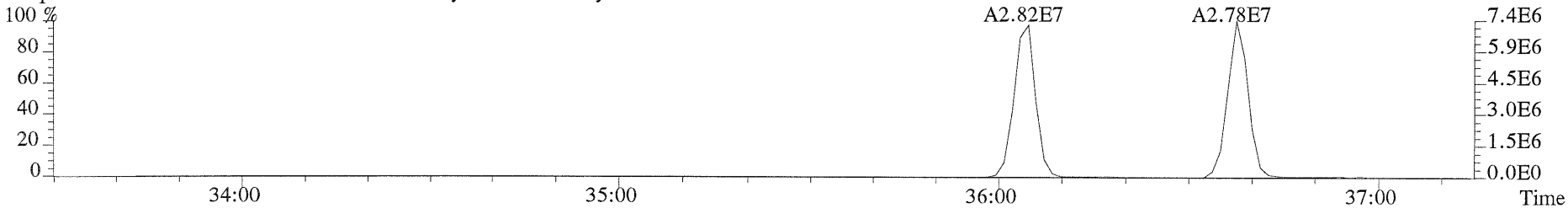
File:28SEP16Y #1-403 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



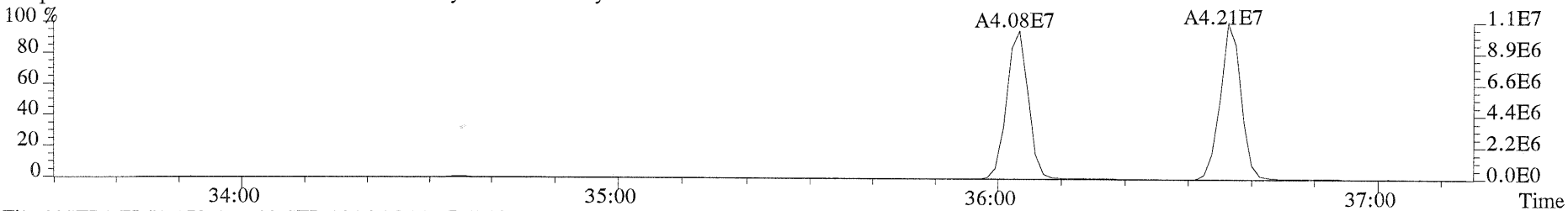
File:28SEP16Y #1-179 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



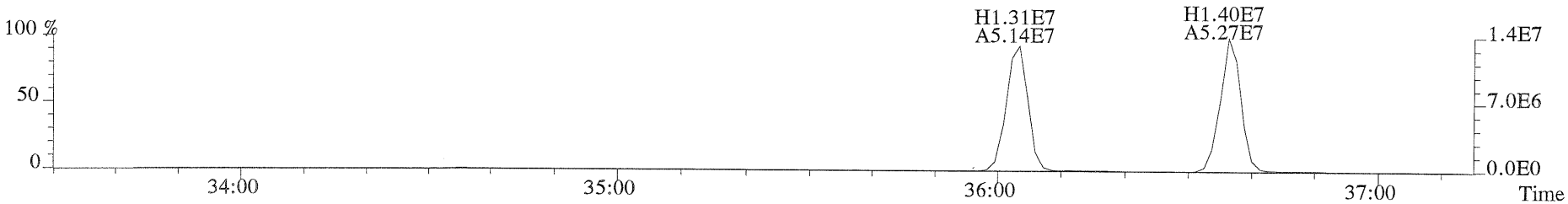
File:28SEP16Y #1-179 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



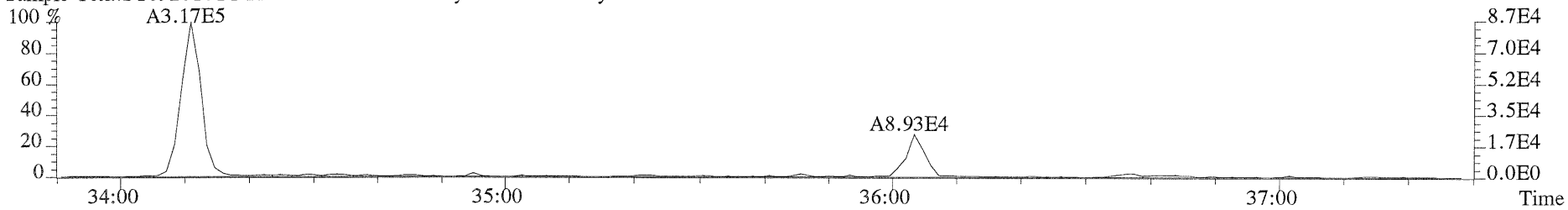
File:28SEP16Y #1-179 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



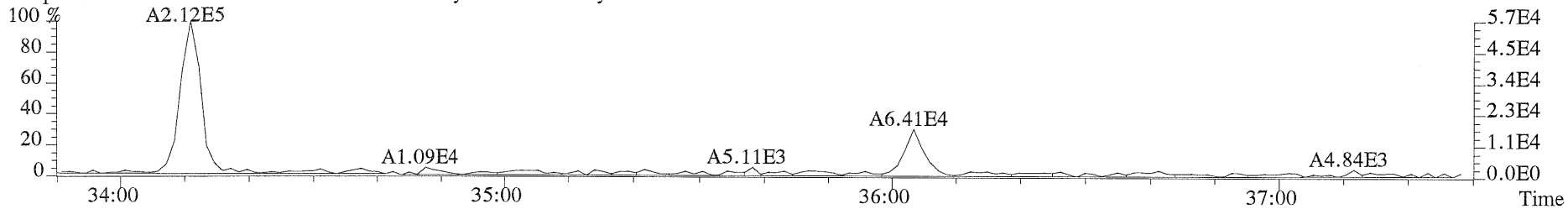
File:28SEP16Y #1-179 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



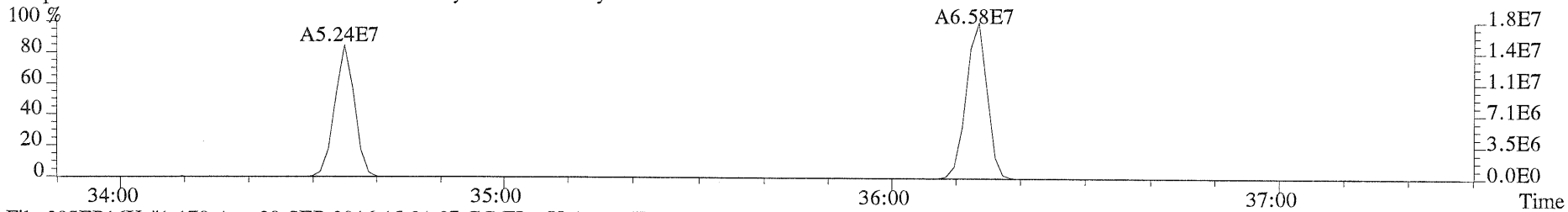
File:28SEP16Y #1-179 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



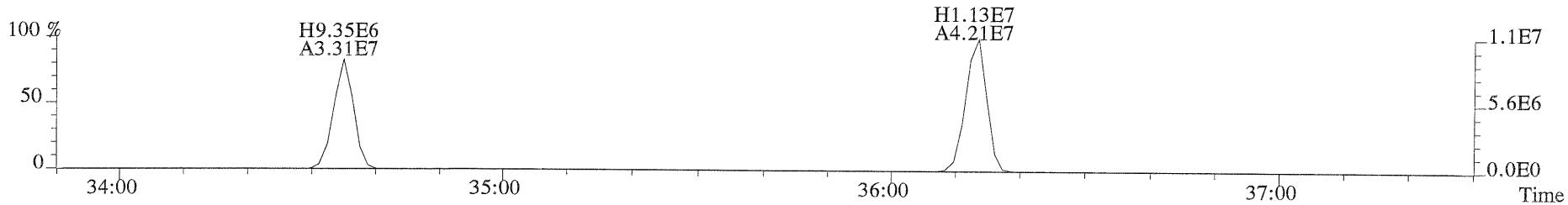
File:28SEP16Y #1-179 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



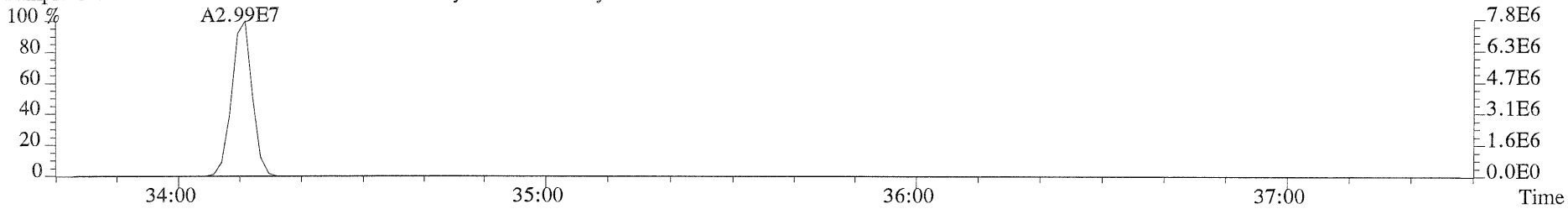
File:28SEP16Y #1-179 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



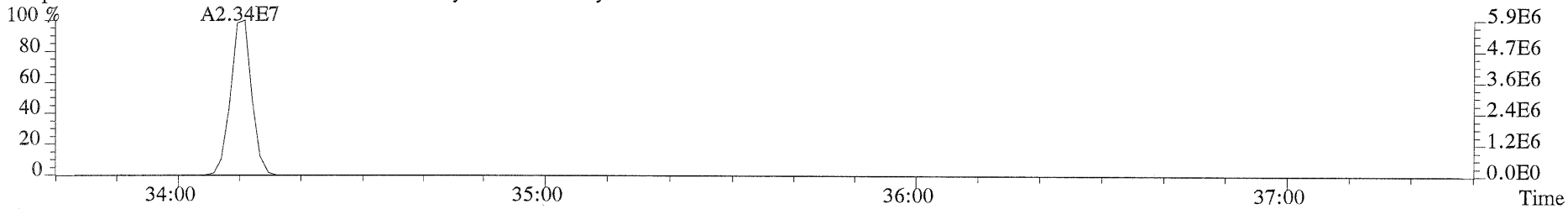
File:28SEP16Y #1-179 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



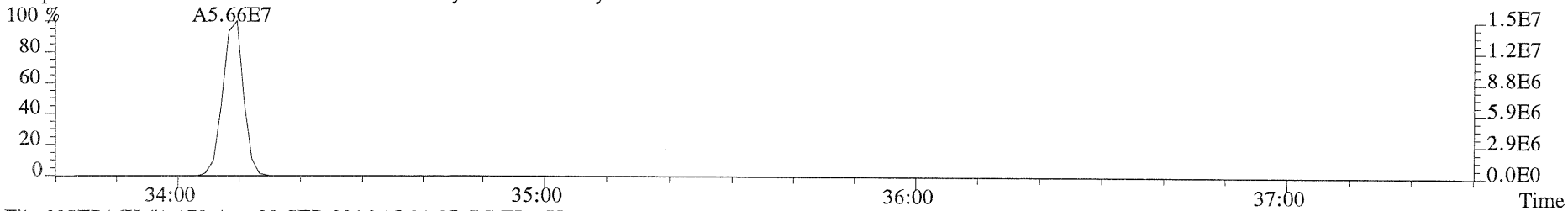
File:28SEP16Y #1-179 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



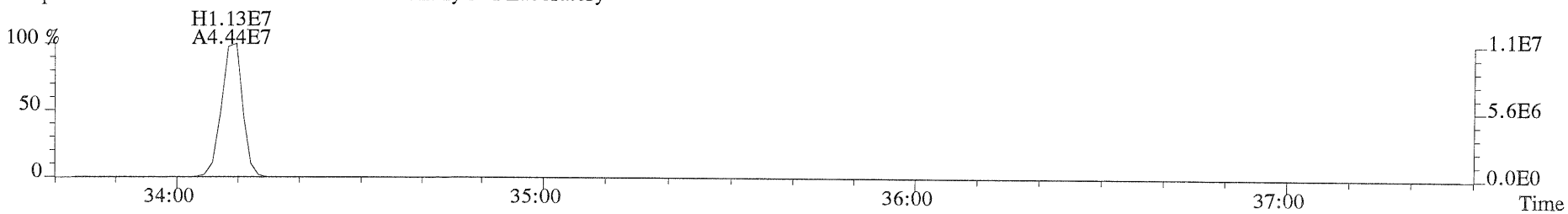
File:28SEP16Y #1-179 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



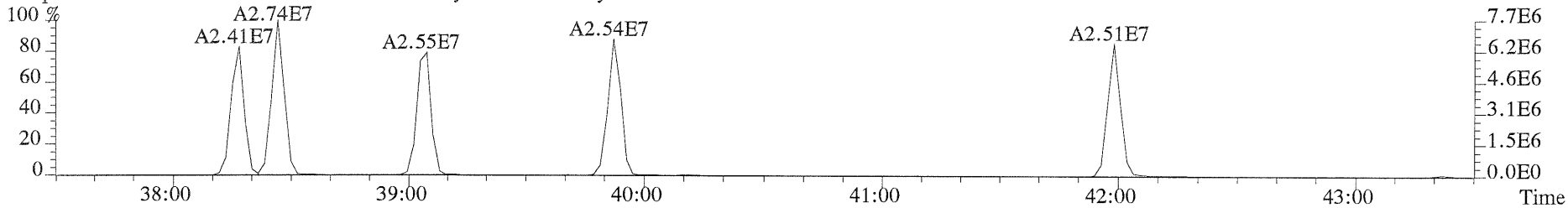
File:28SEP16Y #1-179 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



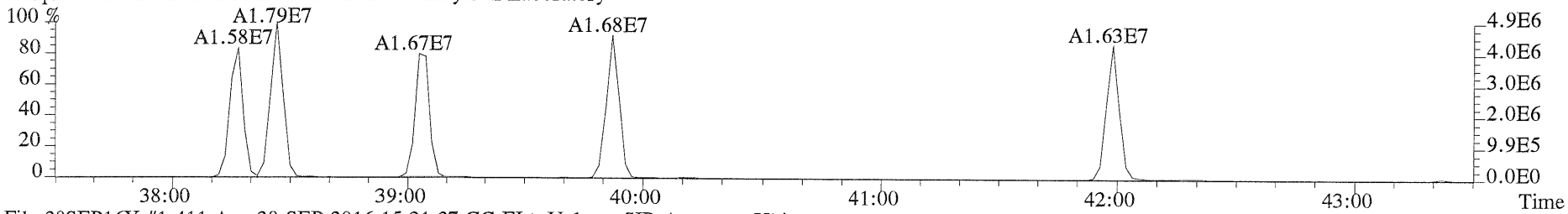
File:28SEP16Y #1-179 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



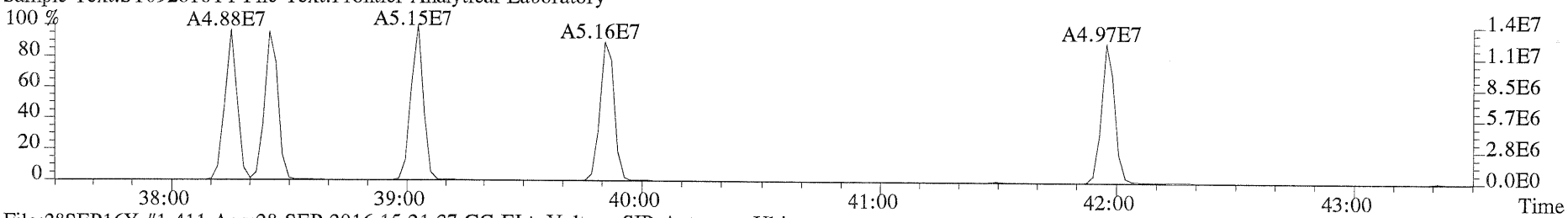
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



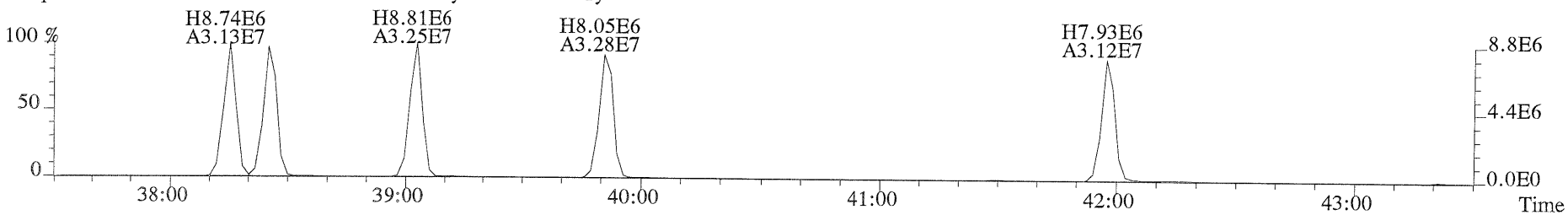
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



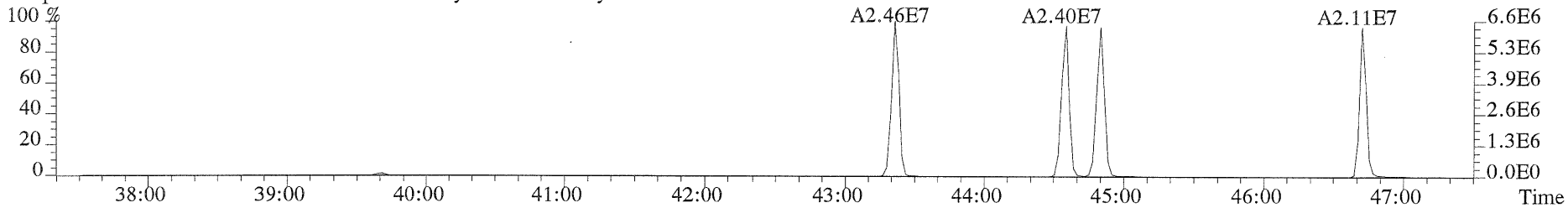
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



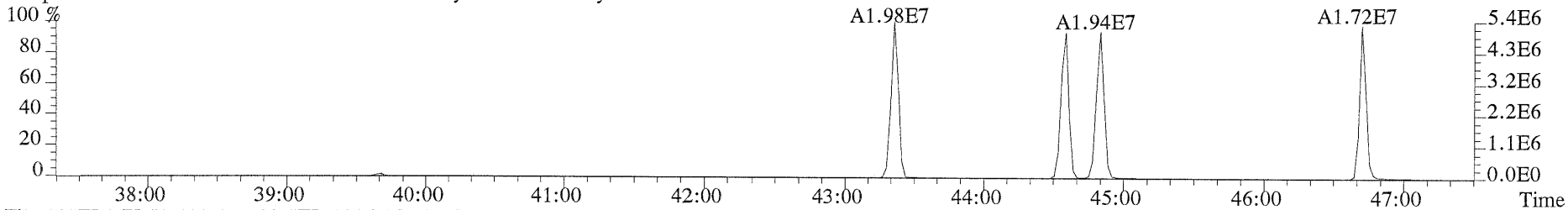
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



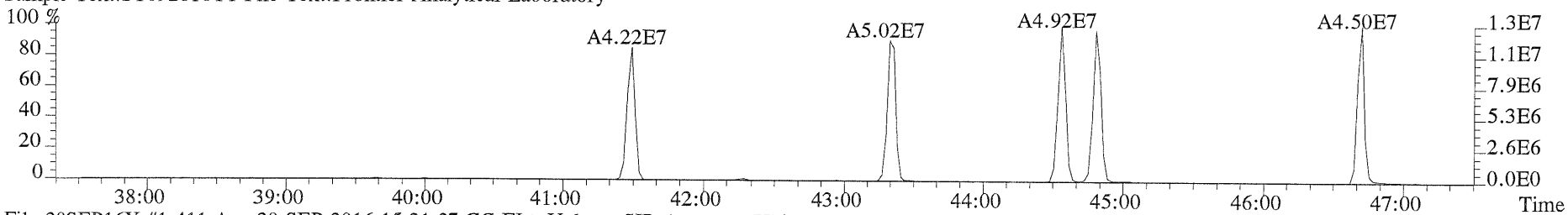
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



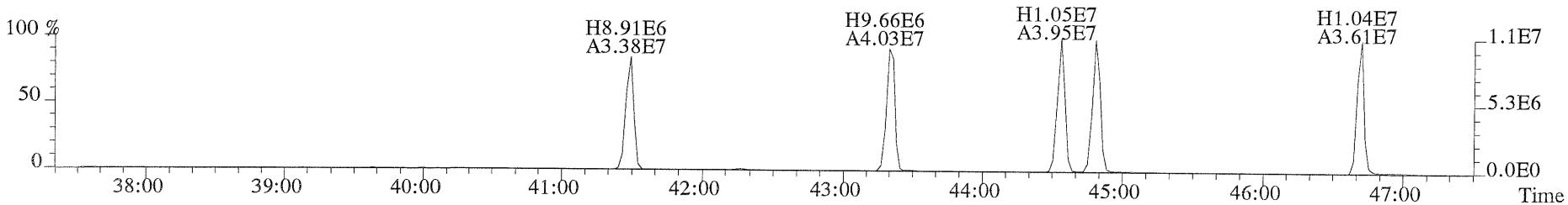
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



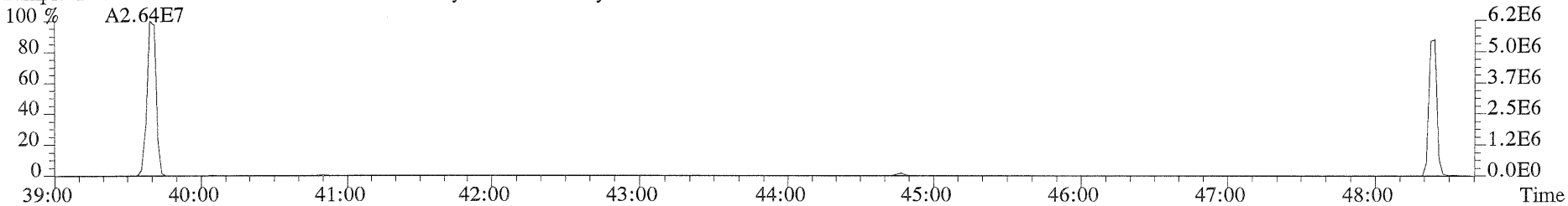
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



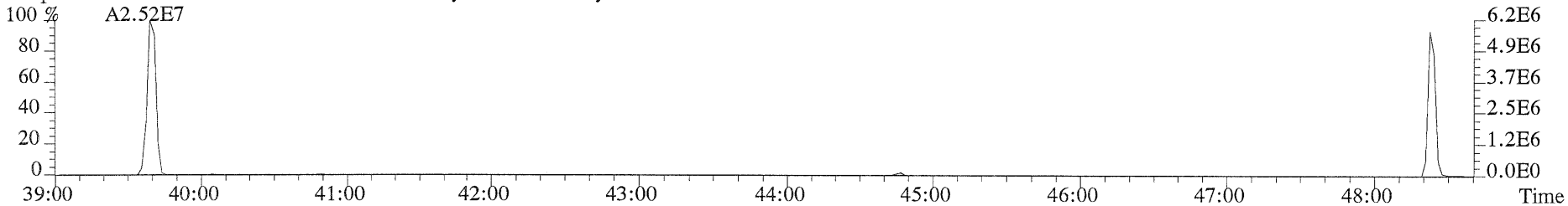
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



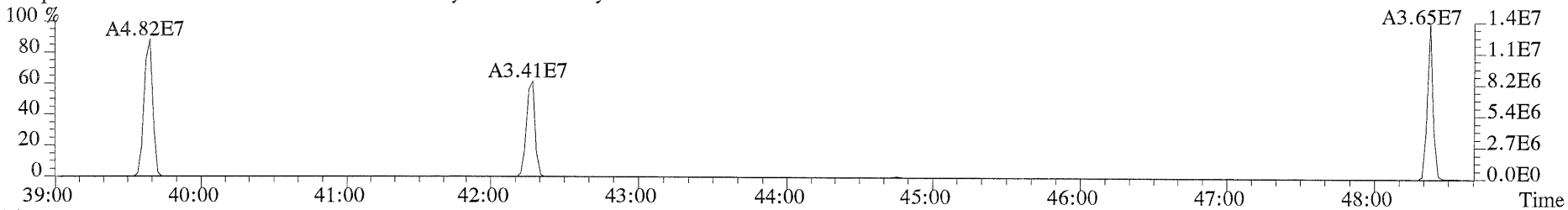
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



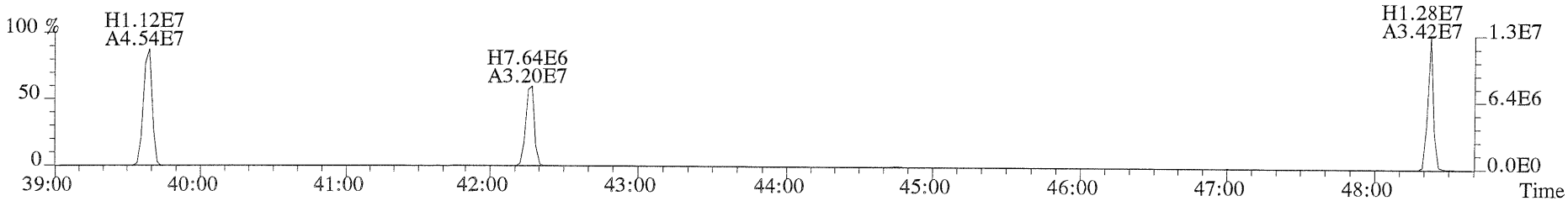
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



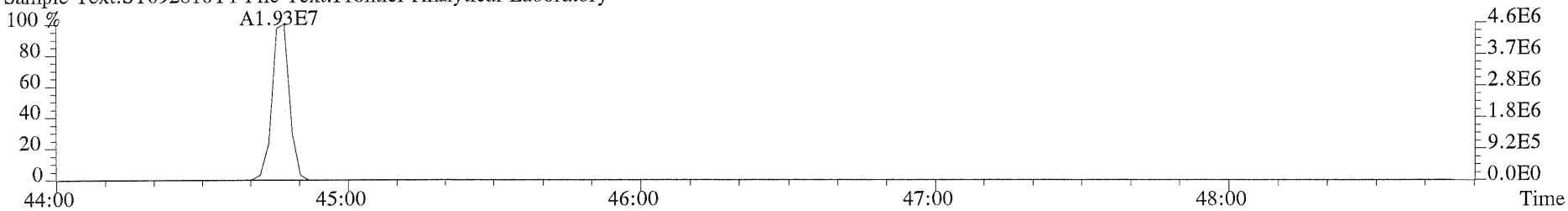
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



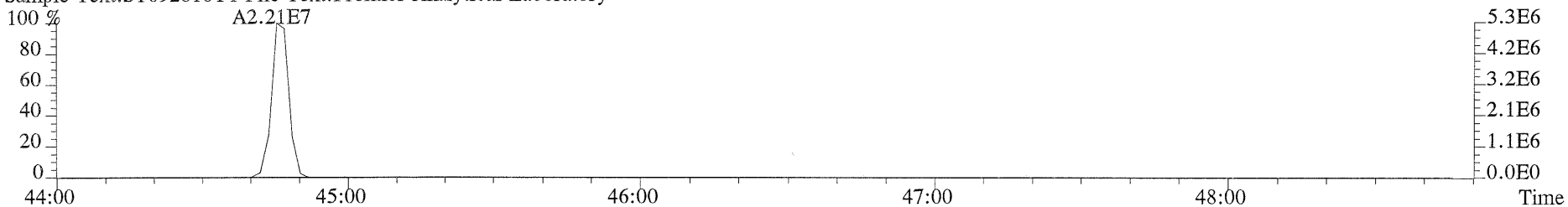
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



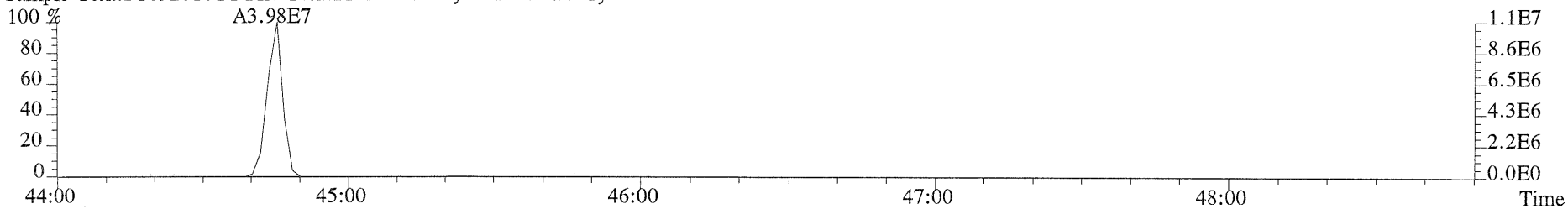
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



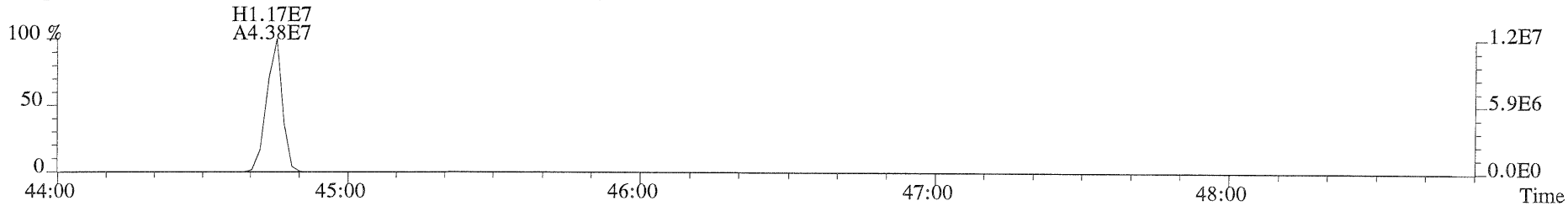
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



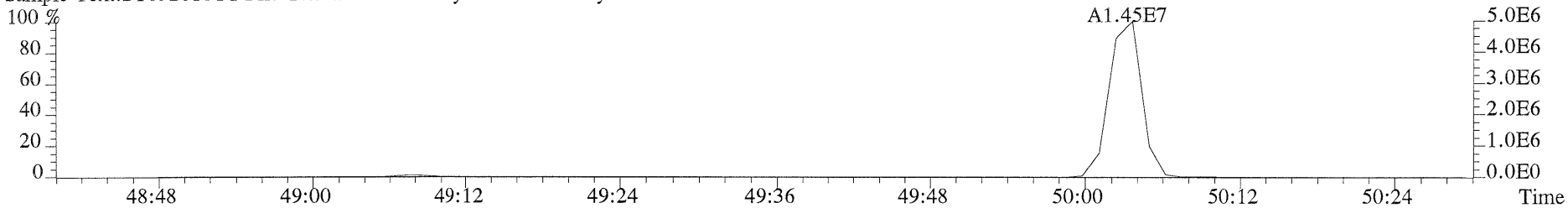
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



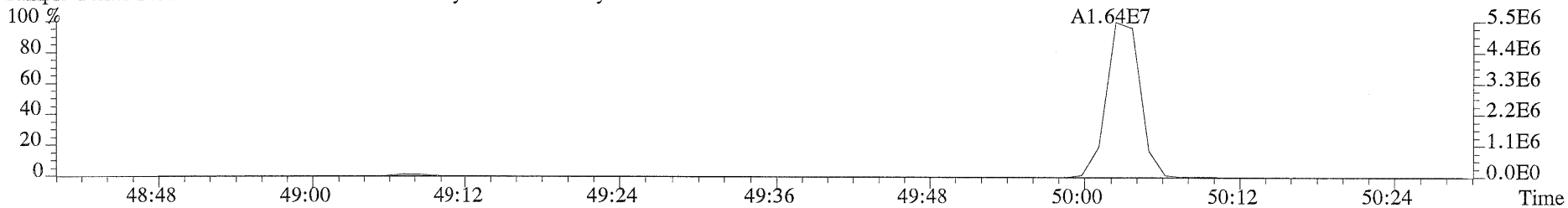
File:28SEP16Y #1-411 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



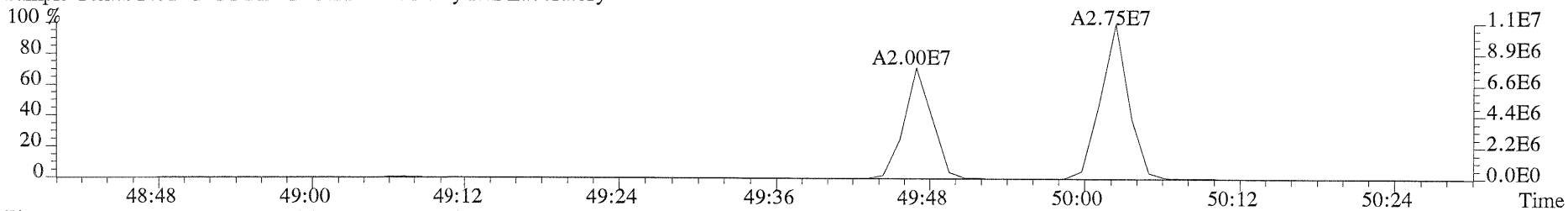
File:28SEP16Y #1-221 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



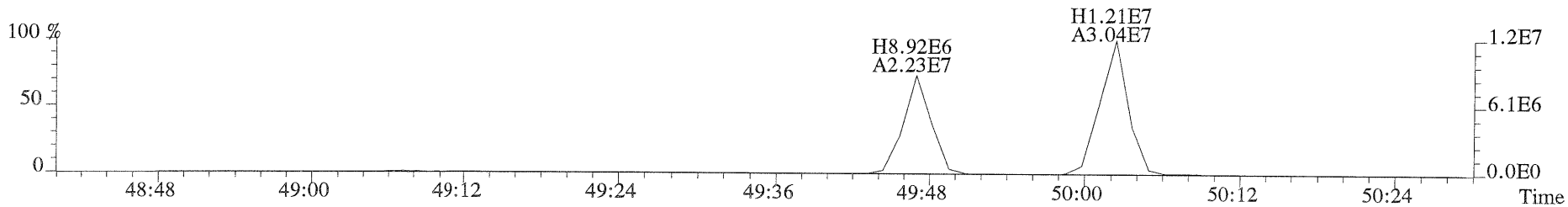
File:28SEP16Y #1-221 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



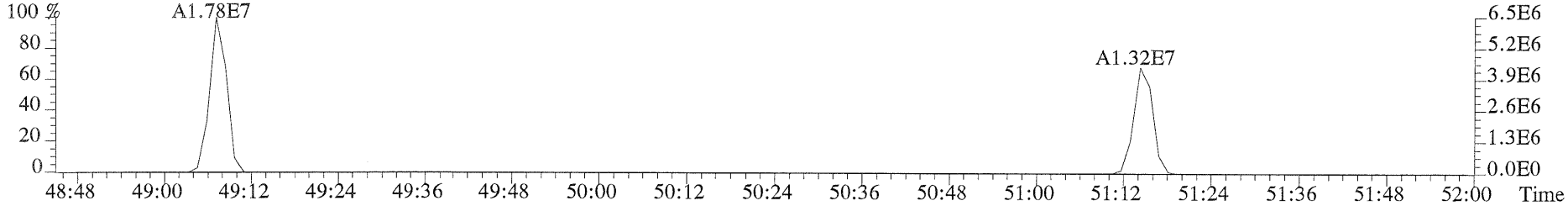
File:28SEP16Y #1-221 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



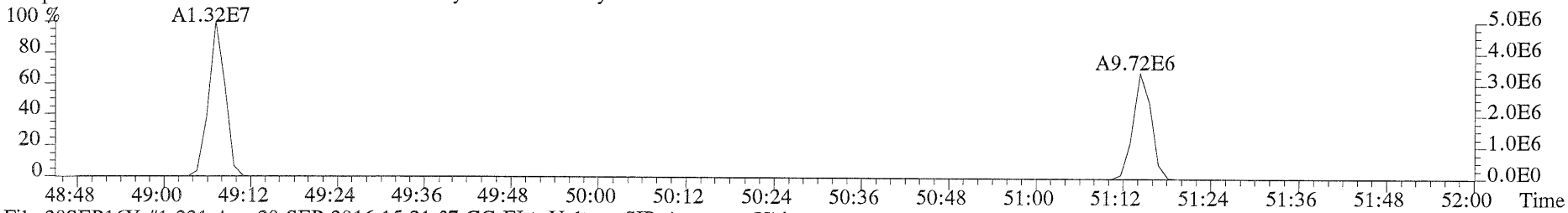
File:28SEP16Y #1-221 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



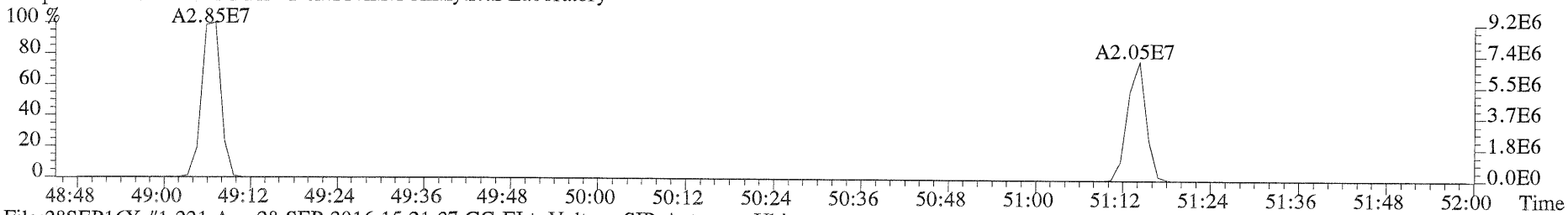
File:28SEP16Y #1-221 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



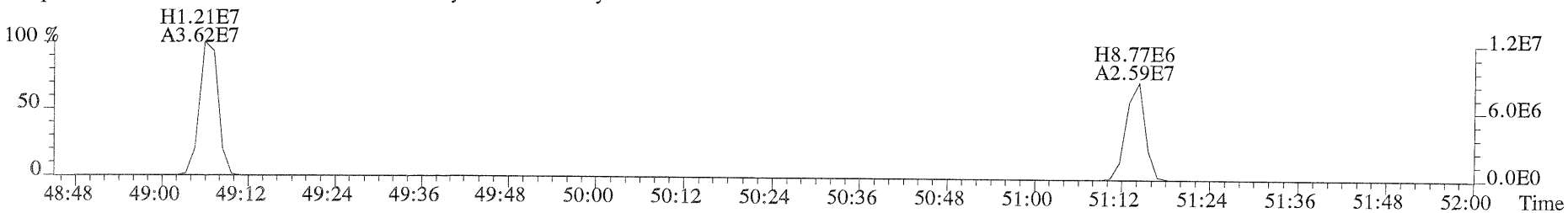
File:28SEP16Y #1-221 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



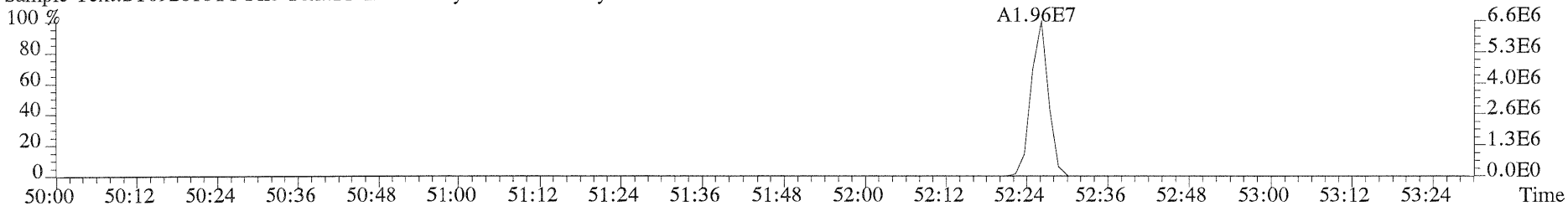
File:28SEP16Y #1-221 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



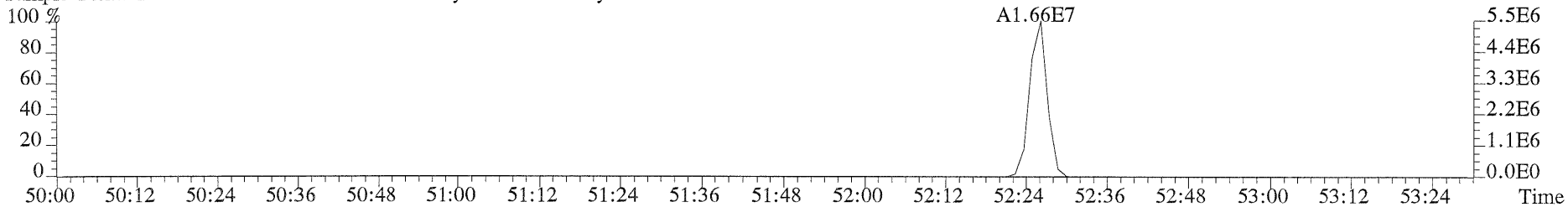
File:28SEP16Y #1-221 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



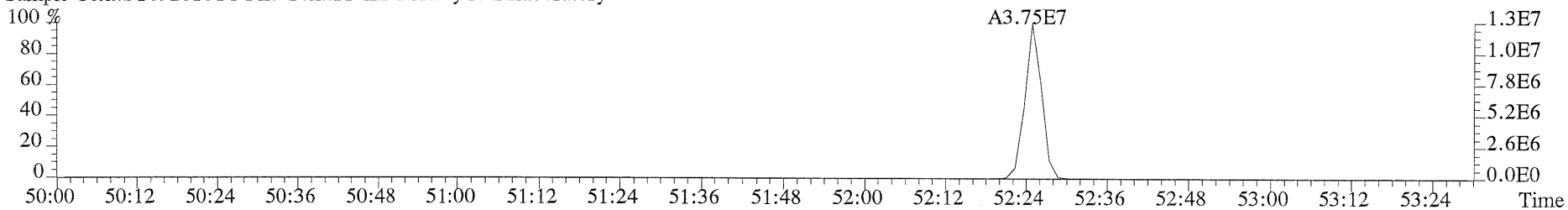
File:28SEP16Y #1-221 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



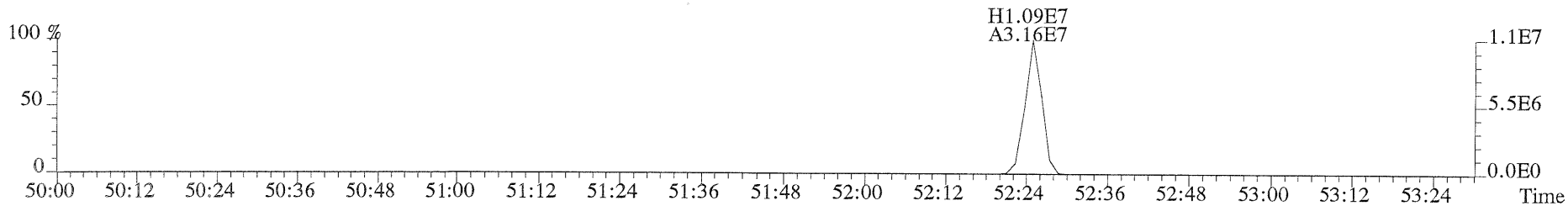
File:28SEP16Y #1-221 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory



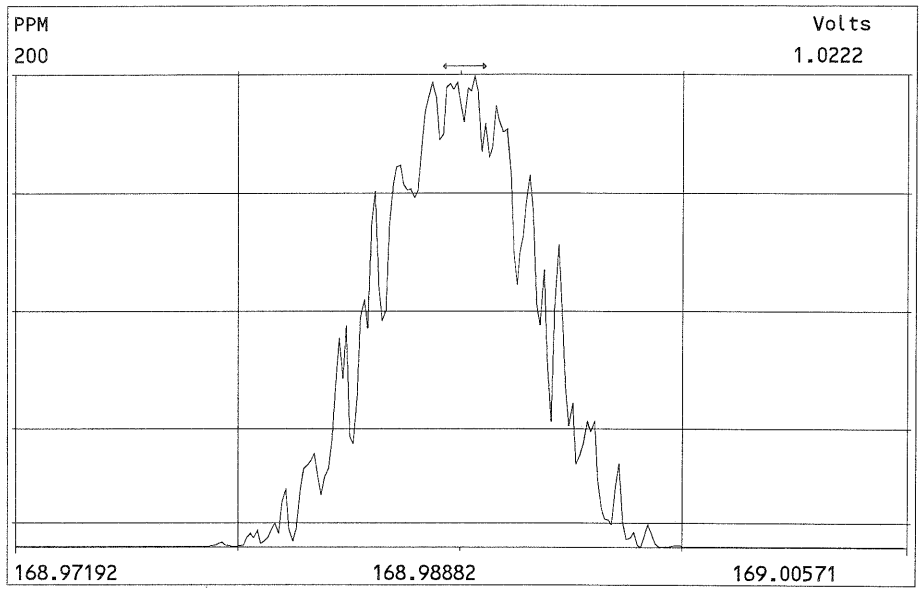
File:28SEP16Y #1-221 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory

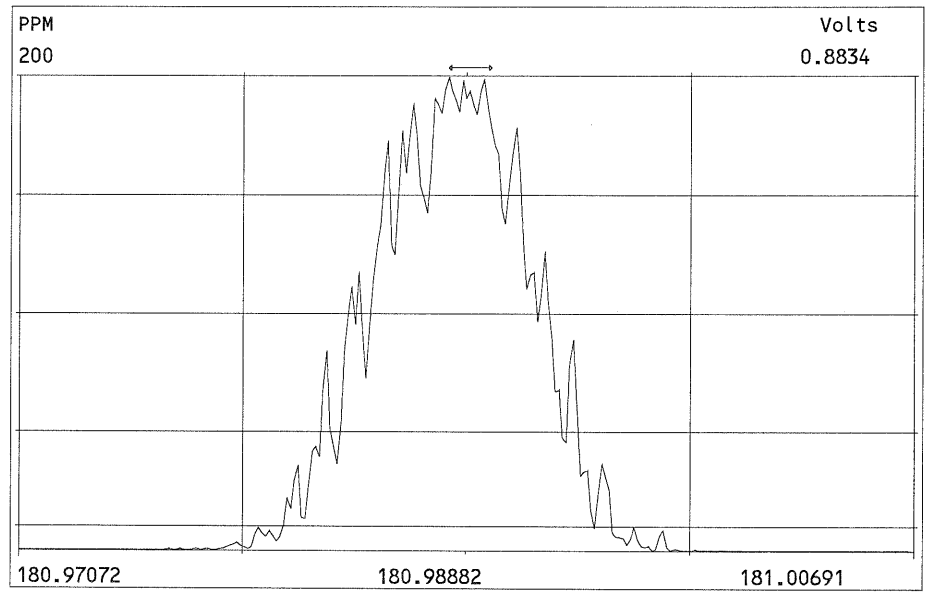


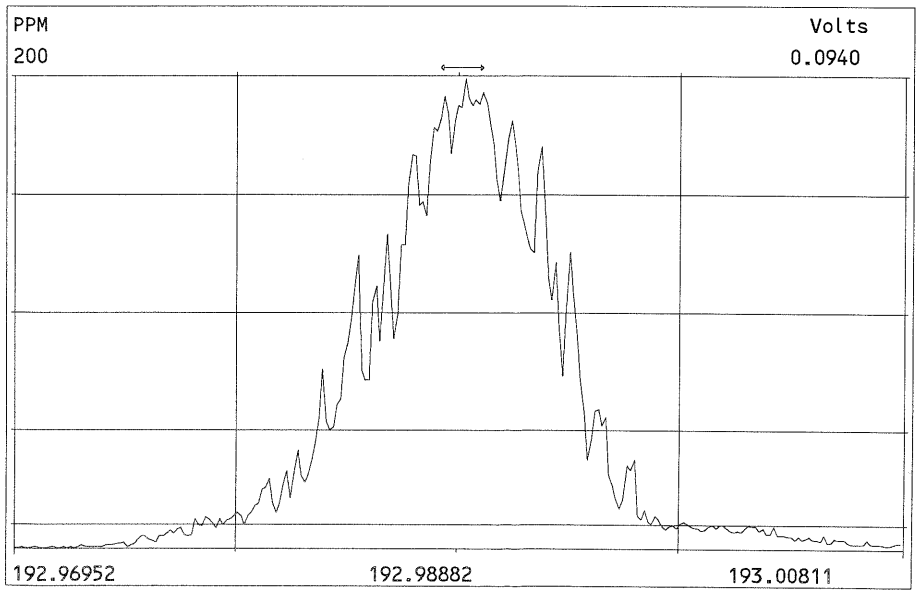
File:28SEP16Y #1-221 Acq:28-SEP-2016 15:21:37 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y1 File Text:Frontier Analytical Laboratory

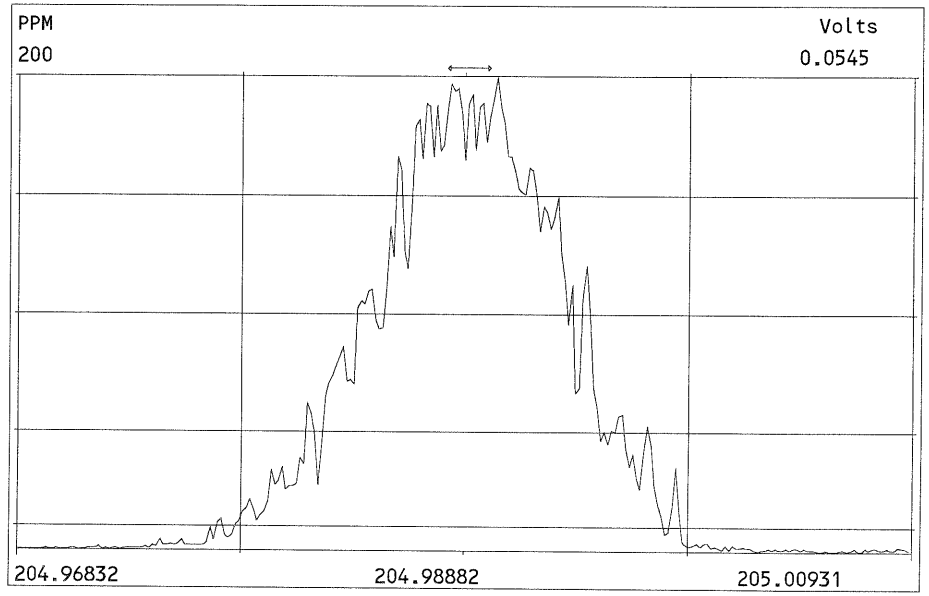


Peak Locate Examination:29-SEP-2016:13:02 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

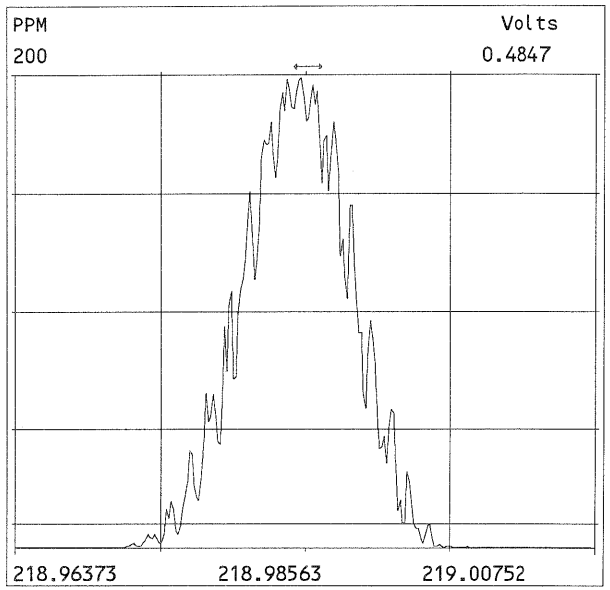


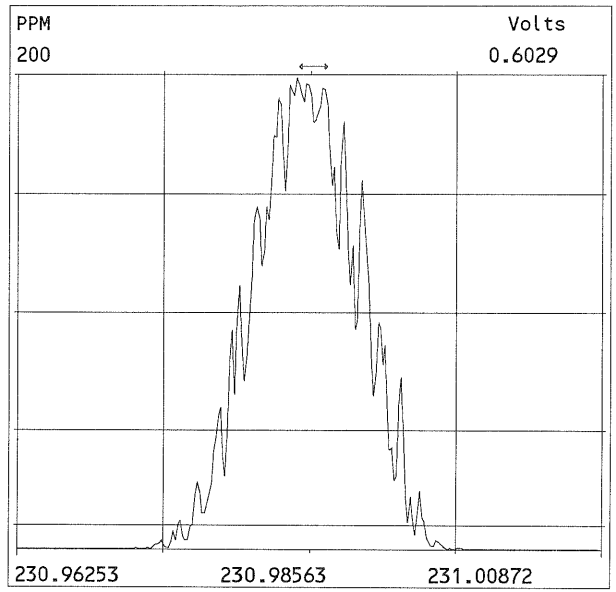


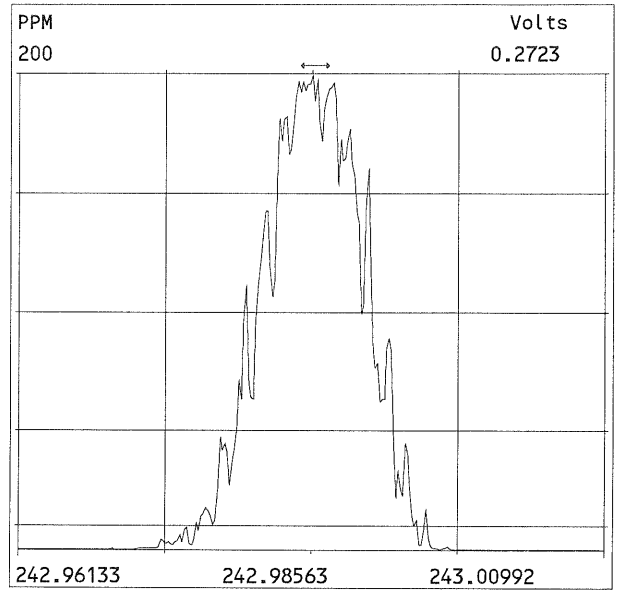


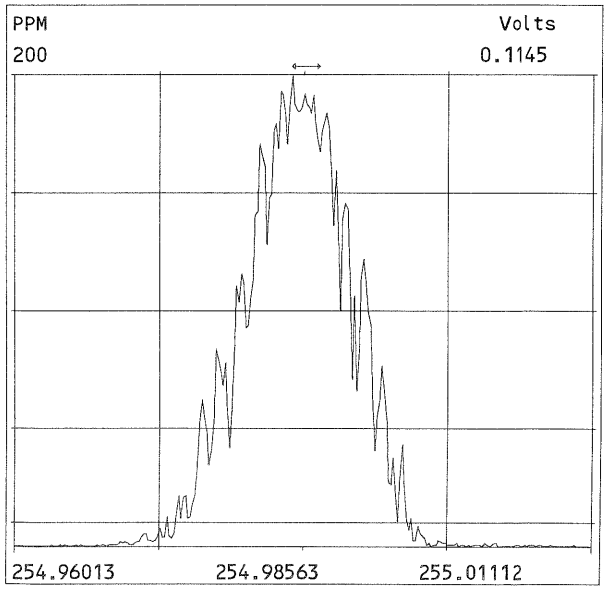


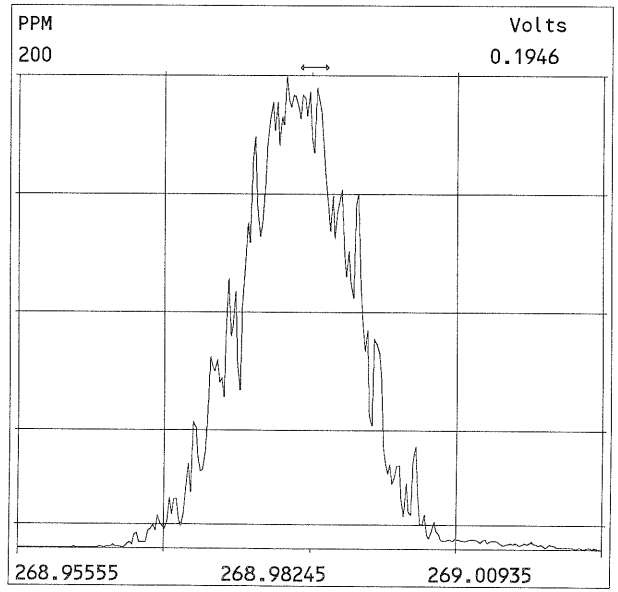
Peak Locate Examination:29-SEP-2016:13:02 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

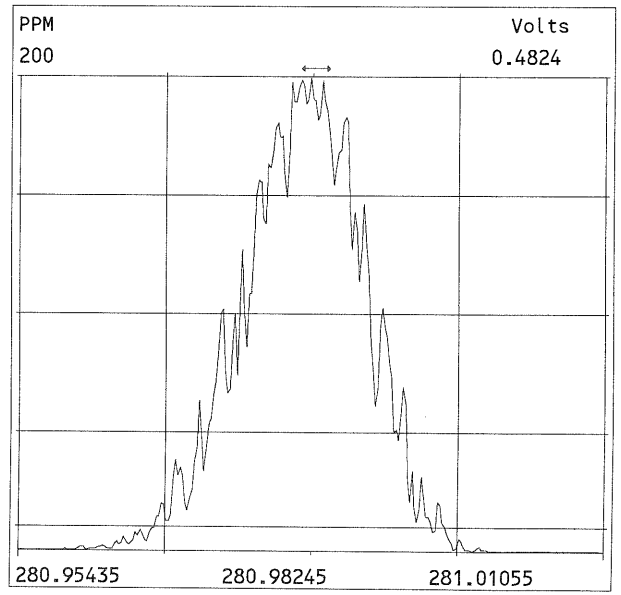




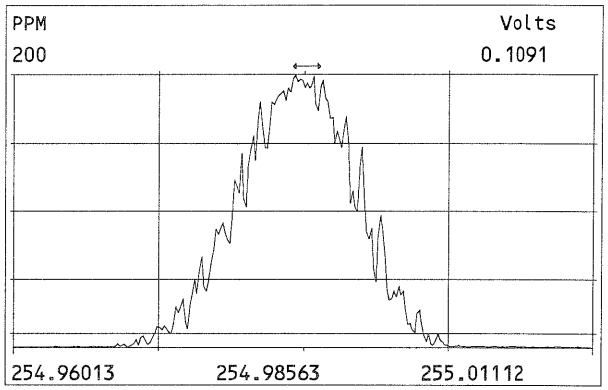


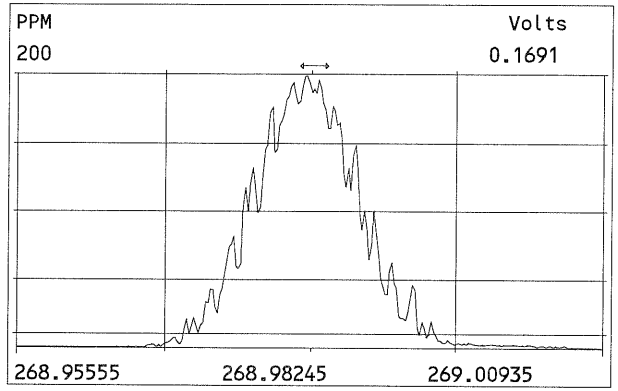


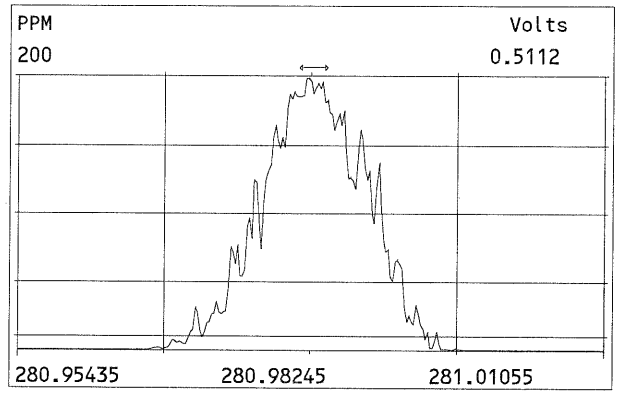


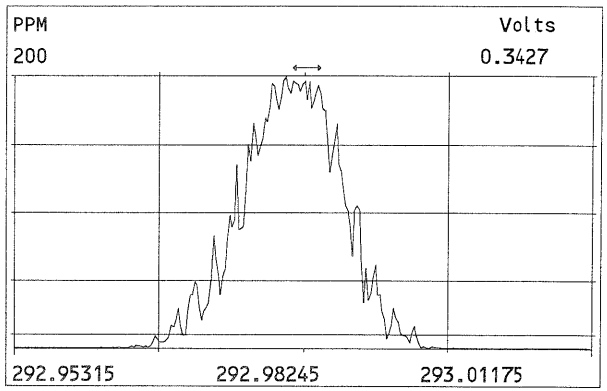


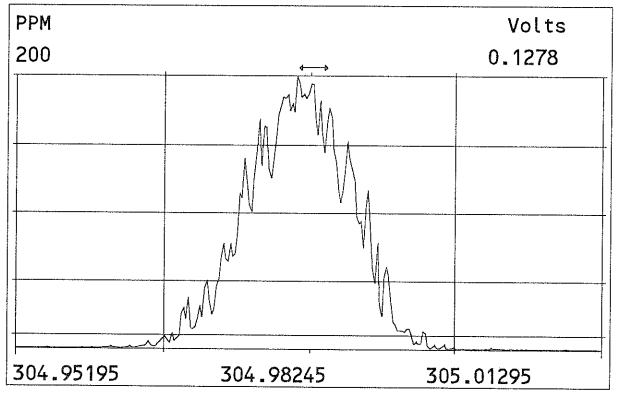
Peak Locate Examination:29-SEP-2016:13:03 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

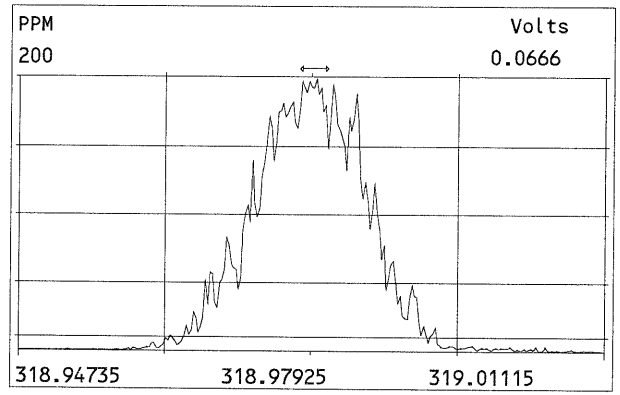


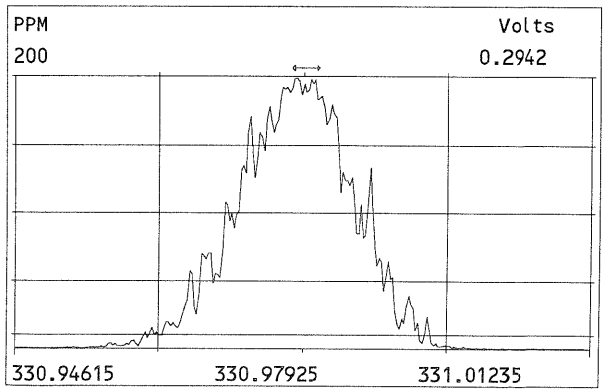


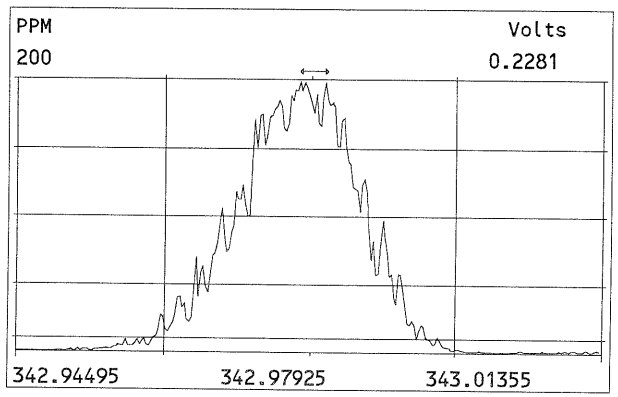




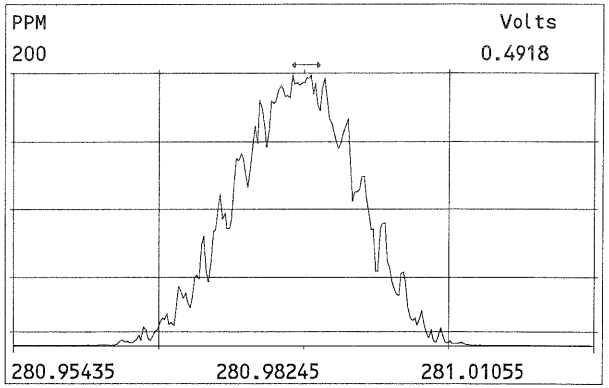


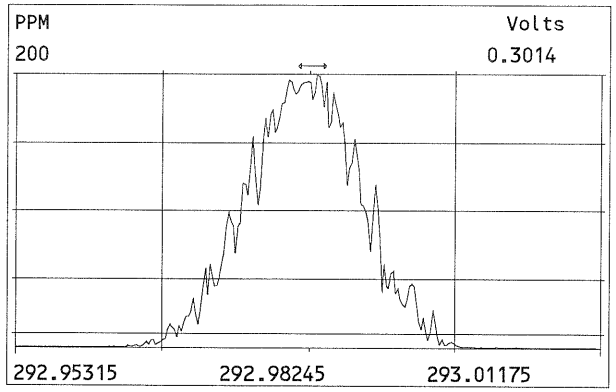


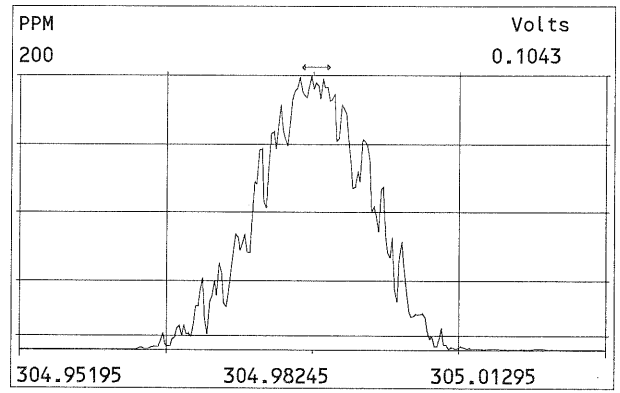


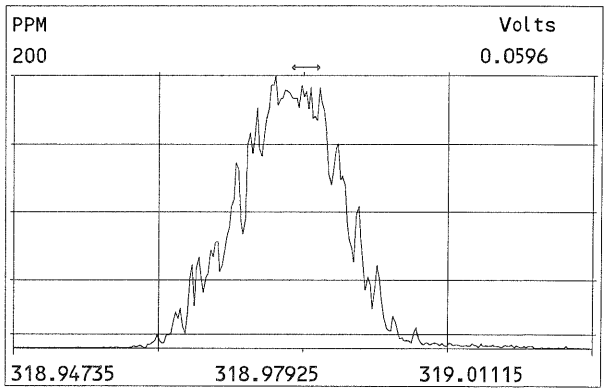


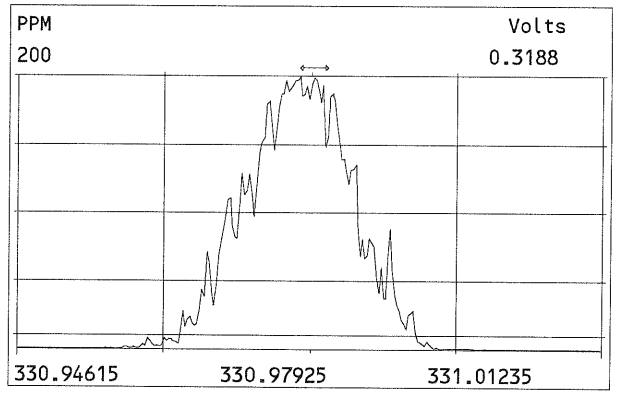
Peak Locate Examination:29-SEP-2016:13:04 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

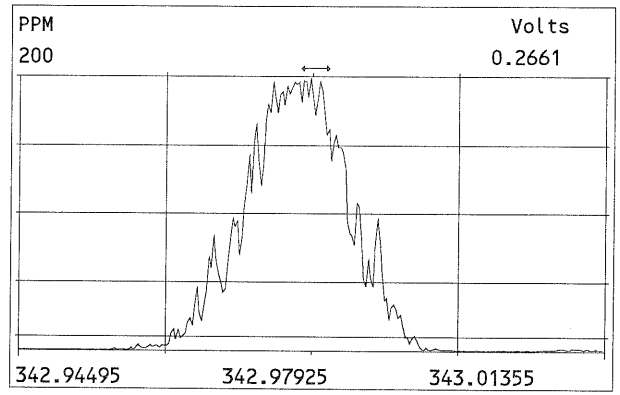


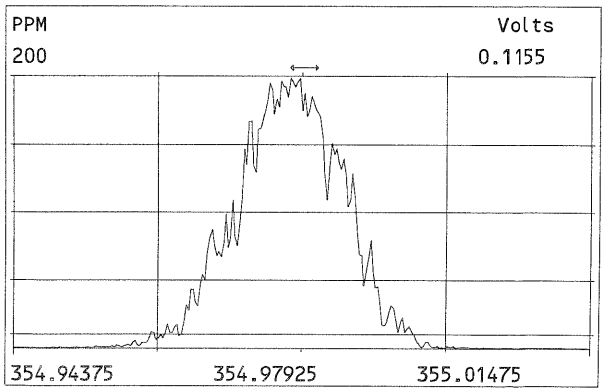


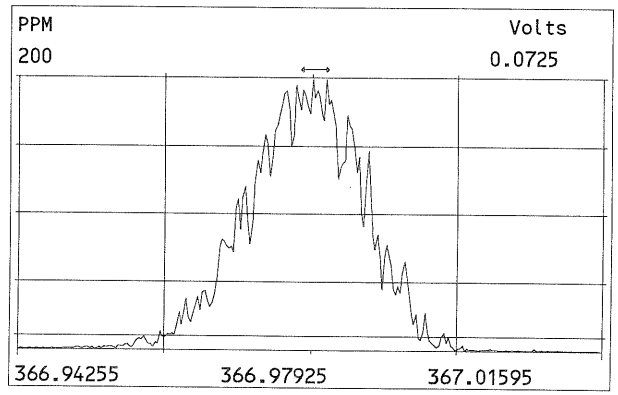


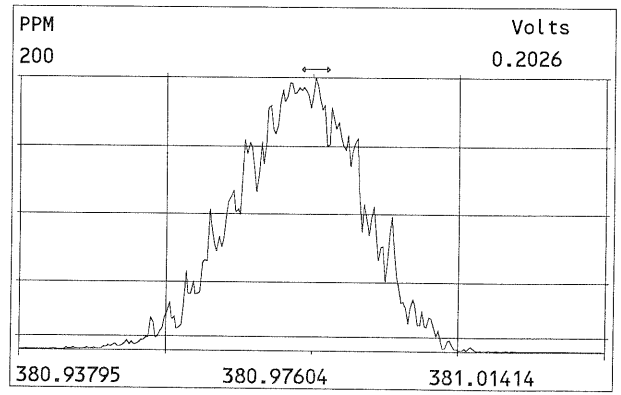




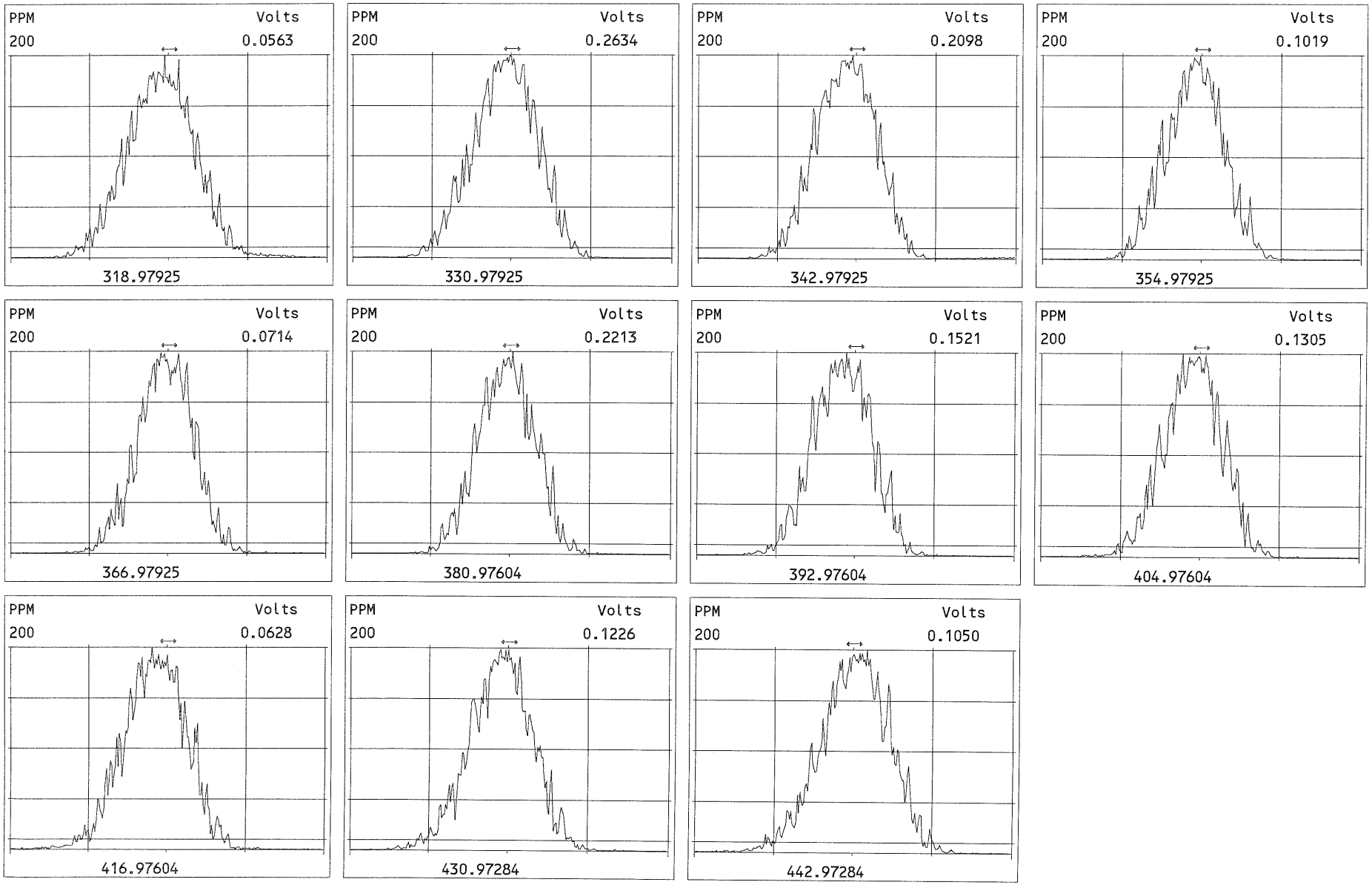




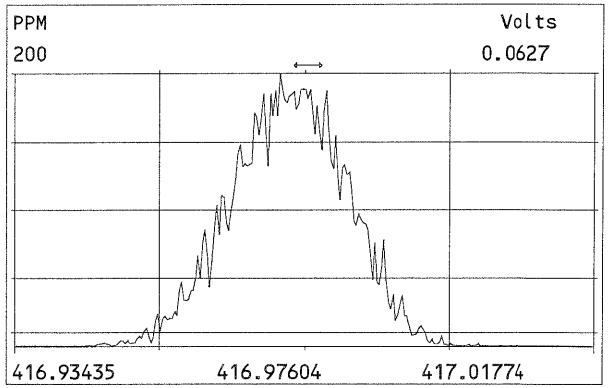


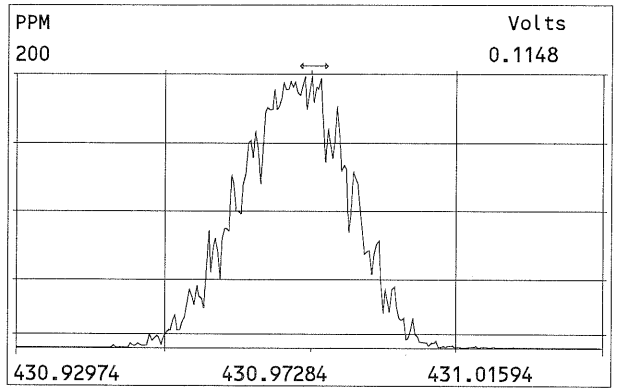


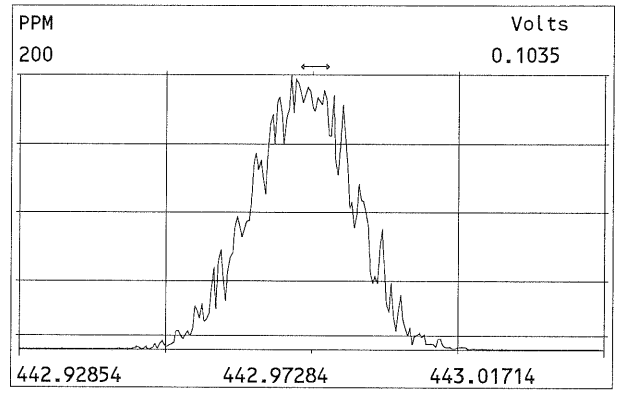
Peak Locate Examination:29-SEP-2016:13:04 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

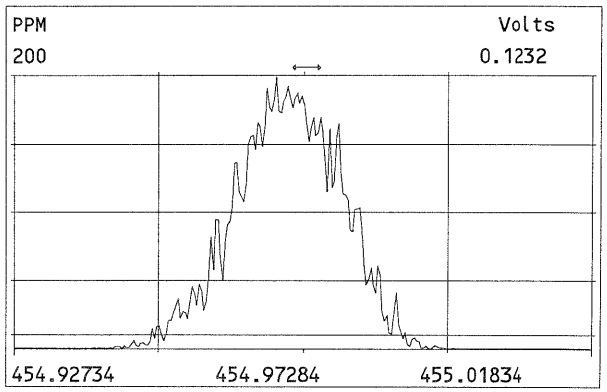


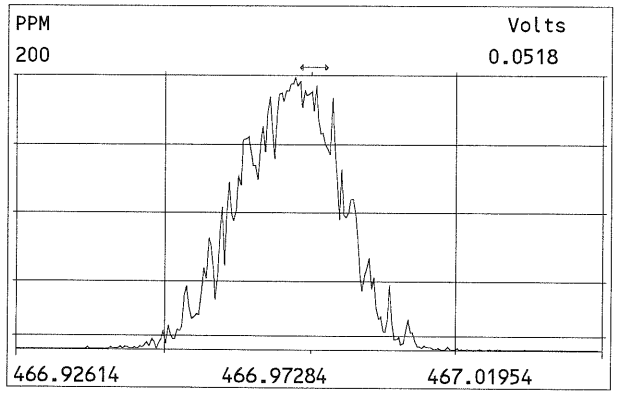
Peak Locate Examination:29-SEP-2016:13:05 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

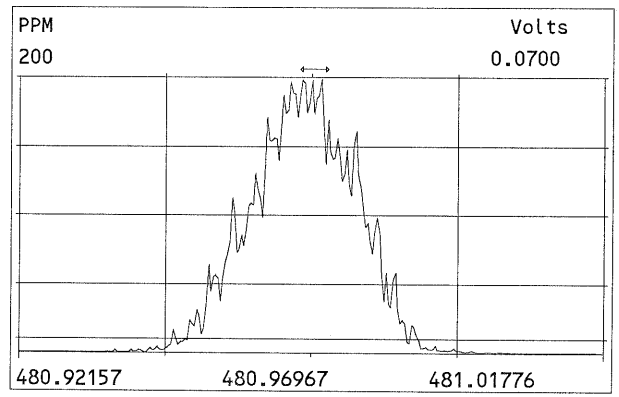


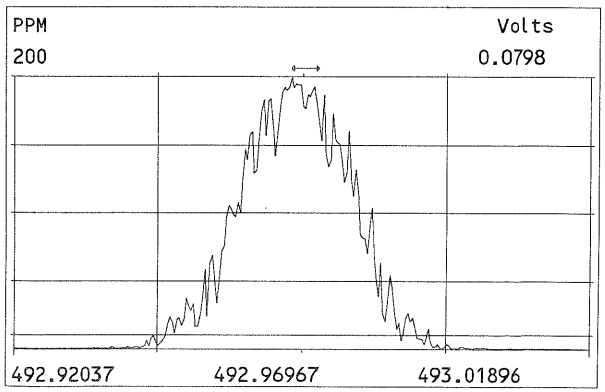


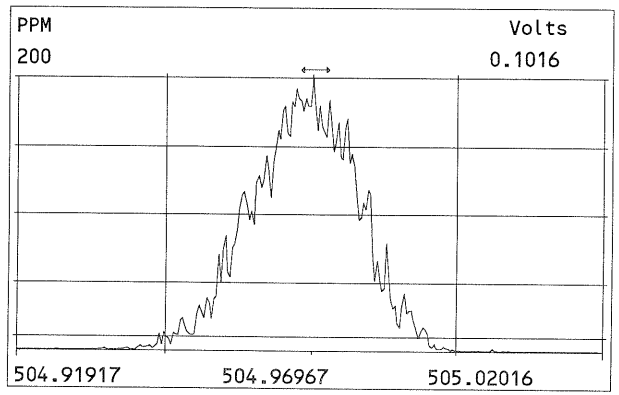


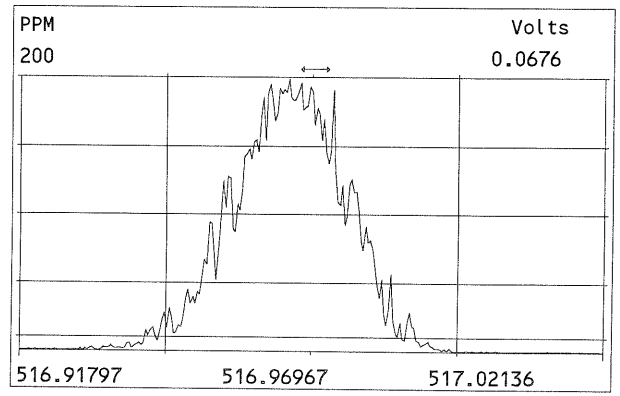












Cal: DAILY209FAL4-9-28-16Y

Run: 28SEP16Z Analyte: Results: Version: V3.6 21-MAY-2002 15:28:22

Data Filename:28SEP16Y S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.0000	-	1.00	
13C-PCB-1	1.2873	-	1.29	
PCB-2	0.9132	-	0.91	
PCB-3	0.9610	-	0.96	
13C-PCB-3	1.2579	-	1.26	
PCB-4	0.9512	-	0.95	
PCB-10	1.1444	-	1.14	
13C-PCB-4	0.6411	-	0.64	
PCB-9	1.2124	*	1.21	
PCB-7	1.1619	-	1.16	
PCB-6	1.1413	-	1.14	
PCB-8	1.1474	-	1.15	
PCB-5	1.1709	-	1.17	
PCB-14	1.1420	-	1.14	
PCB-11	1.1018	-	1.10	
PCB-13	1.0806	-	1.08	
PCB-12	1.1672	-	1.17	
PCB-15	1.0816	-	1.08	
13C-PCB-15	0.9963	-	1.00	
PCB-19	1.0389	-	1.04	
PCB-30	1.4488	-	1.45	
PCB-18	1.0136	-	1.01	
PCB-17	1.0776	-	1.08	
PCB-27	1.5509	-	1.55	
PCB-24	1.3204	-	1.32	
PCB-16	1.1507	*	1.15	
PCB-32	1.3392	-	1.34	
13C-PCB-19	0.6611	-	0.66	
13C-PCB-9	-	-	-	
PCB-34	0.8144	-	0.81	
PCB-23	0.9038	-	0.90	
PCB-29	0.8964	-	0.90	
PCB-26	0.9683	-	0.97	
PCB-25	1.2111	-	1.21	
PCB-31	0.9733	-	0.97	
PCB-28	1.0759	-	1.08	
PCB-20	1.0213	-	1.02	Co-elute PCB 21/33
PCB-21	1.0213	-	1.02	Co-elute PCB 20/33
PCB-33	1.0213	-	1.02	Co-elute PCB 20/21
PCB-22	1.0787	-	1.08	
PCB-36	0.9607	-	0.96	
PCB-39	0.9980	-	1.00	
PCB-38	0.9140	-	0.91	
PCB-35	1.0133	-	1.01	
PCB-37	1.0775	-	1.08	
13C-PCB-37	1.0262	-	1.03	

PCB-54	1.0411	-	1.04	
PCB-50	0.7907	-	0.79	
PCB-53	0.7954	-	0.80	
PCB-51	0.8353	-	0.84	
PCB-45	0.7158	-	0.72	
PCB-46	0.6910	-	0.69	
PCB-52	0.9904	-	0.99	Co-elute PCB 69
PCB-69	0.9904	-	0.99	Co-elute PCB 52
PCB-73	1.0666	-	1.07	
PCB-43	0.7862	-	0.79	Co-elute PCB 49
PCB-49	0.7862	-	0.79	Co-elute PCB 43
PCB-47	1.0665	-	1.07	
PCB-48	0.9396	-	0.94	Co-elute PCB 75
PCB-75	0.9396	-	0.94	Co-elute PCB 48
PCB-65	0.9886	-	0.99	
PCB-62	0.9917	-	0.99	
PCB-44	0.7340	-	0.73	
PCB-42	0.9826	-	0.98	Co-elute PCB 59
PCB-59	0.9826	-	0.98	Co-elute PCB 42
PCB-72	1.0856	-	1.09	Co-elute PCB 41/71/64
PCB-41	1.0856	-	1.09	Co-elute PCB 72/71/64
PCB-71	1.0856	-	1.09	Co-elute PCB 72/41/64
PCB-64	1.0856	-	1.09	Co-elute PCB 72/41/71
PCB-68	1.1248	-	1.12	
PCB-40	0.6341	-	0.63	
PCB-57	1.0816	-	1.08	
PCB-67	1.0722	-	1.07	
PCB-58	1.0815	-	1.08	
PCB-63	1.0783	-	1.08	
PCB-74	1.1829	-	1.18	
PCB-61	1.1529	-	1.15	Co-elute PCB 70
PCB-70	1.1529	-	1.15	Co-elute PCB 61
PCB-76	1.1342	-	1.13	Co-elute PCB 66
PCB-66	1.1342	-	1.13	Co-elute PCB 76
PCB-80	1.2673	-	1.27	
PCB-55	1.1282	-	1.13	
13C-PCB-54	1.0918	-	1.09	
PCB-104	1.1276	-	1.13	
PCB-96	1.0551	-	1.06	
PCB-103	0.8809	-	0.88	
PCB-100	0.8715	-	0.87	
PCB-94	0.7442	-	0.74	
PCB-98	1.0558	*	1.06	Co-elute PCB 102
PCB-102	1.0558	*	1.06	Co-elute PCB 98
PCB-95	0.6350	*	0.63	
PCB-93	0.6269	*	0.63	
PCB-88	0.8303	-	0.83	Co-elute PCB 91
PCB-91	0.8303	-	0.83	Co-elute PCB 88
PCB-121	0.9867	*	0.99	
13C-PCB-104	0.9794	-	0.98	
13C-PCB-28	1.0129	-	1.01	
13C-PCB-52	-	-	-	

PCB-56	0.8918	-	0.89	Co-elute PCB 60
PCB-60	0.8918	-	0.89	Co-elute PCB 56
PCB-79	1.0028	-	1.00	
PCB-78	0.9718	-	0.97	
PCB-81	1.0702	-	1.07	
13C-PCB-81	0.9629	-	0.96	
PCB-77	1.0111	-	1.01	
13C-PCB-77	1.0226	-	1.02	
PCB-155	1.0518	-	1.05	
PCB-150	0.9589	-	0.96	
PCB-152	0.9411	-	0.94	
PCB-145	0.9353	-	0.94	
PCB-136	0.9440	-	0.94	
PCB-148	0.6772	-	0.68	
PCB-154	0.7998	-	0.80	
13C-PCB-155	1.1514	-	1.15	
13C-PCB-111	1.1413	-	1.14	
13C-PCB-101	-	-	-	
PCB-84	0.8669	-	0.87	Co-elute PCB 92
PCB-92	0.8669	-	0.87	Co-elute PCB 84
PCB-89	0.8622	-	0.86	
PCB-90	0.9788	-	0.98	Co-elute PCB 101
PCB-101	0.9788	-	0.98	Co-elute PCB 90
PCB-113	1.1165	-	1.12	
PCB-99	1.0614	-	1.06	
PCB-119	1.2562	-	1.26	
PCB-83	1.0010	-	1.00	Co-elute PCB 112
PCB-112	1.0010	-	1.00	Co-elute PCB 83
PCB-109	1.1256	-	1.13	
PCB-97	1.0577	-	1.06	
PCB-86	0.8820	-	0.88	
PCB-125	1.1337	-	1.13	Co-elute PCB 87/117
PCB-87	1.1337	-	1.13	Co-elute PCB 125/117
PCB-117	1.1337	-	1.13	Co-elute PCB 125/87
PCB-111	1.4457	-	1.45	Co-elute PCB 115
PCB-115	1.4457	-	1.45	Co-elute PCB 111
PCB-85	1.0170	-	1.02	Co-elute PCB 116
PCB-116	1.0170	-	1.02	Co-elute PCB 85
PCB-120	1.3351	-	1.34	
PCB-110	1.2960	-	1.30	
PCB-82	0.7504	-	0.75	
PCB-124	0.9918	-	0.99	
PCB-108	0.9501	-	0.95	Co-elute PCB 107
PCB-107	0.9501	-	0.95	Co-elute PCB 108
PCB-123	1.0841	-	1.08	
13C-PCB-123	0.9719	-	0.97	
PCB-118	0.9075	-	0.91	Co-elute PCB 106
PCB-106	0.9075	-	0.91	Co-elute PCB 118
13C-PCB-118	1.0566	-	1.06	
PCB-114	0.9687	-	0.97	
13C-PCB-114	1.0373	-	1.04	
PCB-122	0.9455	-	0.95	
PCB-105	0.9410	-	0.94	
13C-PCB-105	1.0333	-	1.03	
PCB-127	0.8563	-	0.86	
PCB-126	0.9785	-	0.98	
13C-PCB-126	0.9137	-	0.91	

PCB-151	0.8154	-	0.82	
PCB-135	0.8767	-	0.88	
PCB-144	0.8166	-	0.82	
PCB-147	0.8599	-	0.86	
PCB-139	0.9021	-	0.90	Co-elute PCB 149
PCB-149	0.9021	-	0.90	Co-elute PCB 139
PCB-140	0.8332	-	0.83	
PCB-143	0.8200	-	0.82	Co-elute PCB 134
PCB-134	0.8200	-	0.82	Co-elute PCB 143
PCB-131	0.8275	-	0.83	Co-elute PCB 133
PCB-133	0.8275	-	0.83	Co-elute PCB 131
PCB-142	0.7052	-	0.71	
PCB-165	0.9698	-	0.97	Co-elute PCB 146
PCB-146	0.9698	-	0.97	Co-elute PCB 165
PCB-161	0.9202	-	0.92	Co-elute PCB 132
PCB-132	0.9202	-	0.92	Co-elute PCB 161
PCB-153	0.9455	-	0.95	
PCB-168	1.0535	-	1.05	
PCB-141	0.8129	-	0.81	
PCB-137	0.7554	-	0.76	
PCB-130	0.7434	-	0.74	
PCB-138	1.0985	-	1.10	Co-elute PCB 163/164
PCB-163	1.0985	-	1.10	Co-elute PCB 138/164
PCB-164	1.0985	-	1.10	Co-elute PCB 138/163
PCB-158	1.0570	-	1.06	Co-elute PCB 160
PCB-160	1.0570	-	1.06	Co-elute PCB 158
PCB-129	0.6627	-	0.66	
PCB-166	0.9899	-	0.99	
PCB-159	1.0508	-	1.05	
PCB-128	0.9007	-	0.90	Co-elute PCB 162
PCB-162	0.9007	-	0.90	Co-elute PCB 128
PCB-167	0.9411	-	0.94	
13C-PCB-167	1.1236	-	1.12	
PCB-156	0.9919	-	0.99	
13C-PCB-156	1.0679	-	1.07	
PCB-157	0.9425	-	0.94	
13C-PCB-157	1.0961	-	1.10	
PCB-169	0.9485	-	0.95	
13C-PCB-169	0.9817	-	0.98	
PCB-188	1.1112	-	1.11	
13C-PCB-188	1.2332	-	1.23	

PCB-184	1.2491	-	1.25	
PCB-179	1.2253	-	1.23	
PCB-176	1.1899	-	1.19	
PCB-186	1.1787	-	1.18	
PCB-178	0.8535	-	0.85	
PCB-175	0.8918	-	0.89	
PCB-187	0.9469	-	0.95	Co-elute PCB 182
PCB-182	0.9469	-	0.95	Co-elute PCB 187
PCB-183	0.9503	-	0.95	
PCB-185	0.8569	-	0.86	
PCB-174	0.8909	-	0.89	
PCB-181	0.8193	-	0.82	
PCB-177	0.7408	-	0.74	
PCB-171	0.8240	-	0.82	
PCB-173	0.7278	-	0.73	
PCB-172	0.7465	-	0.75	
PCB-192	0.9644	-	0.96	
PCB-180	0.9819	-	0.98	
PCB-193	1.0508	-	1.05	
PCB-191	0.9736	-	0.97	
PCB-170	0.6438	-	0.64	
PCB-190	0.8843	-	0.88	
PCB-189	1.0959	-	1.10	
13C-PCB-189	0.9010	-	0.90	
PCB-202	0.9480	-	0.95	
PCB-201	0.9248	-	0.92	
PCB-204	0.9208	-	0.92	
PCB-197	0.9263	-	0.93	
PCB-200	0.8833	-	0.88	
PCB-198	0.6007	-	0.60	
PCB-199	0.5547	-	0.55	
PCB-203	0.6446	-	0.64	Co-elute PCB 196
PCB-196	0.6446	-	0.64	Co-elute PCB 203
13C-PCB-202	1.0023	-	1.00	
13C-PCB-178	0.8382	-	0.84	
13C-PCB-138	-	-	-	
PCB-195	0.7487	-	0.75	
PCB-194	0.7610	-	0.76	
PCB-205	1.0031	-	1.00	
13C-PCB-205	1.2697	-	1.27	
PCB-208	0.9303	-	0.93	
13C-PCB-208	1.4936	-	1.49	
PCB-207	0.9989	-	1.00	
PCB-206	0.9944	-	0.99	
13C-PCB-206	1.0193	-	1.02	
PCB-209	1.0566	-	1.06	
13C-PCB-209	1.5751	-	1.58	
13C-PCB-194	-	-	-	

Analyst: [signature] Date: 9/30/16

Run #1 Filename 28SEP16Y S: 2 Acquired: 28-SEP-16 16:18:07 Cal: DAILY209FAL4-9-28-16Y
Client ID: SS092816Y1 Analyte: FAL ID: Daily 209 160711B

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	1.07e+08	3.11 y	14:29	-	1.00	
2	IS/RT	13C-PCB-1	100.00	2.14e+08	3.09 y	14:28	-	1.29	
3	Unk	PCB-2	50.00	9.64e+07	3.11 y	16:41	-	0.913	
4	Unk	PCB-3	50.00	1.00e+08	3.08 y	16:54	-	0.961	
5	IS/RT	13C-PCB-3	100.00	2.09e+08	3.16 y	16:53	-	1.26	
6	Unk	PCB-4	50.00	5.06e+07	1.46 y	18:09	-	0.951	
7	Unk	PCB-10	50.00	7.77e+07	1.53 y	18:13	-	1.14	
8	IS/RT	13C-PCB-4	100.00	1.06e+08	1.57 y	18:08	-	0.641	
9	Unk	PCB-9	50.00	8.24e+07	1.51 y	19:50	-	1.21	
10	Unk	PCB-7	50.00	7.89e+07	1.55 y	19:52	-	1.16	
11	Unk	PCB-6	50.00	7.75e+07	1.50 y	20:27	-	1.14	
12	Unk	PCB-8	50.00	7.79e+07	1.49 y	20:49	-	1.15	
13	Unk	PCB-5	50.00	7.95e+07	1.58 y	20:52	-	1.17	
14	Unk	PCB-14	50.00	7.76e+07	1.54 y	21:53	-	1.14	
15	Unk	PCB-11	50.00	7.48e+07	1.54 y	23:00	-	1.10	
16	Unk	PCB-13	50.00	7.34e+07	1.50 y	23:20	-	1.08	
17	Unk	PCB-12	50.00	7.93e+07	1.58 y	23:24	-	1.17	
18	Unk	PCB-15	50.00	8.94e+07	1.54 y	23:39	-	1.08	
19	IS/RT	13C-PCB-15	100.00	1.65e+08	1.57 y	23:39	-	0.996	
20	Unk	PCB-19	50.00	5.70e+07	1.02 y	22:02	-	1.04	
21	Unk	PCB-30	50.00	7.95e+07	1.02 y	22:53	-	1.45	
22	Unk	PCB-18	50.00	5.56e+07	1.01 y	23:35	-	1.01	
23	Unk	PCB-17	50.00	5.91e+07	1.03 y	23:45	-	1.08	
24	Unk	PCB-27	50.00	8.51e+07	1.00 y	24:17	-	1.55	
25	Unk	PCB-24	50.00	7.24e+07	1.03 y	24:18	-	1.32	
26	Unk	PCB-16	50.00	6.31e+07	0.97 y	24:46	-	1.15	
27	Unk	PCB-32	50.00	7.35e+07	1.07 y	24:47	-	1.34	
28	IS/RT	13C-PCB-19	100.00	1.10e+08	1.06 y	22:01	-	0.661	
29	RS	13C-PCB-9	100.00	1.66e+08	1.58 y	19:48	1.66e+06	-	
30	Unk	PCB-34	50.00	4.96e+07	0.97 y	25:32	-	0.814	
31	Unk	PCB-23	50.00	5.51e+07	1.00 y	25:38	-	0.904	
32	Unk	PCB-29	50.00	5.46e+07	0.99 y	25:52	-	0.896	
33	Unk	PCB-26	50.00	5.90e+07	1.01 y	26:03	-	0.968	
34	Unk	PCB-25	50.00	7.38e+07	1.03 y	26:12	-	1.21	
35	Unk	PCB-31	50.00	5.93e+07	1.01 y	26:32	-	0.973	
36	Unk	PCB-28	50.00	6.56e+07	1.00 y	26:39	-	1.08	
37	Unk	PCB-20	150.00	1.87e+08	1.02 y	27:13	-	1.02	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	1.87e+08	1.02 y	27:13	-	1.02	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	1.87e+08	1.02 y	27:13	-	1.02	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	6.58e+07	1.02 y	27:38	-	1.08	
41	Unk	PCB-36	50.00	5.86e+07	1.00 y	28:13	-	0.961	
42	Unk	PCB-39	50.00	6.08e+07	1.01 y	28:40	-	0.998	
43	Unk	PCB-38	50.00	5.57e+07	1.00 y	29:24	-	0.914	
44	Unk	PCB-35	50.00	6.18e+07	1.01 y	29:53	-	1.01	
45	Unk	PCB-37	50.00	6.57e+07	0.99 y	30:17	-	1.08	
46	IS	13C-PCB-37	100.00	1.22e+08	1.02 y	30:17	-	1.03	

47	Unk	PCB-54	100.00	1.35e+08	0.78 y	25:34		-	1.04	
48	Unk	PCB-50	100.00	1.03e+08	0.77 y	26:41		-	0.791	
49	Unk	PCB-53	100.00	1.03e+08	0.77 y	27:16		-	0.795	
50	Unk	PCB-51	100.00	1.08e+08	0.77 y	27:37		-	0.835	
51	Unk	PCB-45	100.00	9.29e+07	0.78 y	28:01		-	0.716	
52	Unk	PCB-46	100.00	8.96e+07	0.77 y	28:29		-	0.691	
53	Unk	PCB-52	200.00	2.57e+08	0.77 y	28:56		-	0.990	Co-elute PCB 69
54	Unk	PCB-69	200.00	2.57e+08	0.77 y	28:56		-	0.990	Co-elute PCB 52
55	Unk	PCB-73	100.00	1.38e+08	0.79 y	29:01		-	1.07	
56	Unk	PCB-43	200.00	2.04e+08	0.78 y	29:12		-	0.786	Co-elute PCB 49
57	Unk	PCB-49	200.00	2.04e+08	0.78 y	29:12		-	0.786	Co-elute PCB 43
58	Unk	PCB-47	100.00	1.38e+08	0.77 y	29:24		-	1.07	
59	Unk	PCB-48	200.00	2.44e+08	0.78 y	29:30		-	0.940	Co-elute PCB 75
60	Unk	PCB-75	200.00	2.44e+08	0.78 y	29:30		-	0.940	Co-elute PCB 48
61	Unk	PCB-65	100.00	1.28e+08	0.77 y	29:46		-	0.989	
62	Unk	PCB-62	100.00	1.29e+08	0.78 y	29:52		-	0.992	
63	Unk	PCB-44	100.00	9.52e+07	0.77 y	30:08		-	0.734	
64	Unk	PCB-42	200.00	2.55e+08	0.77 y	30:21		-	0.983	Co-elute PCB 59
65	Unk	PCB-59	200.00	2.55e+08	0.77 y	30:21		-	0.983	Co-elute PCB 42
66	Unk	PCB-72	400.00	5.63e+08	0.77 y	30:54		-	1.09	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	5.63e+08	0.77 y	30:54		-	1.09	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	5.63e+08	0.77 y	30:54		-	1.09	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	5.63e+08	0.77 y	30:54		-	1.09	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	1.46e+08	0.78 y	31:09		-	1.12	
71	Unk	PCB-40	100.00	8.23e+07	0.78 y	31:22		-	0.634	
72	Unk	PCB-57	100.00	1.40e+08	0.78 y	31:42		-	1.08	
73	Unk	PCB-67	100.00	1.39e+08	0.77 y	31:60		-	1.07	
74	Unk	PCB-58	100.00	1.40e+08	0.78 y	32:06		-	1.08	
75	Unk	PCB-63	100.00	1.40e+08	0.77 y	32:15		-	1.08	
76	Unk	PCB-74	100.00	1.53e+08	0.77 y	32:31		-	1.18	
77	Unk	PCB-61	200.00	2.99e+08	0.78 y	32:43		-	1.15	Co-elute PCB 70
78	Unk	PCB-70	200.00	2.99e+08	0.78 y	32:43		-	1.15	Co-elute PCB 61
79	Unk	PCB-76	200.00	2.94e+08	0.76 y	32:51		-	1.13	Co-elute PCB 66
80	Unk	PCB-66	200.00	2.94e+08	0.76 y	32:51		-	1.13	Co-elute PCB 76
81	Unk	PCB-80	100.00	1.64e+08	0.78 y	33:07		-	1.27	
82	Unk	PCB-55	100.00	1.46e+08	0.77 y	33:26		-	1.13	
83	IS/RT	13C-PCB-54	100.00	1.30e+08	0.80 y	25:33		-	1.09	
84	Unk	PCB-104	100.00	1.31e+08	1.57 y	30:01		-	1.13	
85	Unk	PCB-96	100.00	1.23e+08	1.58 y	31:12		-	1.06	
86	Unk	PCB-103	100.00	1.02e+08	1.58 y	31:42		-	0.881	
87	Unk	PCB-100	100.00	1.01e+08	1.56 y	32:02		-	0.871	
88	Unk	PCB-94	100.00	8.66e+07	1.59 y	32:29		-	0.744	
89	Unk	PCB-98	200.00	2.46e+08	1.52 y	32:57		-	1.06	Co-elute PCB 102
90	Unk	PCB-102	200.00	2.46e+08	1.52 y	32:57		-	1.06	Co-elute PCB 98
91	Unk	PCB-95	100.00	7.39e+07	1.69 y	33:00		-	0.635	
92	Unk	PCB-93	100.00	7.29e+07	1.60 y	33:04		-	0.627	
93	Unk	PCB-88	200.00	1.93e+08	1.54 y	33:22		-	0.830	Co-elute PCB 91
94	Unk	PCB-91	200.00	1.93e+08	1.54 y	33:22		-	0.830	Co-elute PCB 88
95	Unk	PCB-121	100.00	1.15e+08	1.63 y	33:27		-	0.987	
96	IS	13C-PCB-104	100.00	1.16e+08	1.61 y	29:60		-	0.979	
97	C/Up	13C-PCB-28	100.00	1.20e+08	1.01 y	26:37		-	1.01	
98	RS	13C-PCB-52	100.00	1.19e+08	0.80 y	28:54	1.19e+06		-	
99	Unk	PCB-56	200.00	2.01e+08	0.72 y	33:53		-	0.892	Co-elute PCB 60
100	Unk	PCB-60	200.00	2.01e+08	0.72 y	33:53		-	0.892	Co-elute PCB 56

101	Unk	PCB-79	100.00	1.13e+08	0.74 y	34:54		-	1.00	
102	Unk	PCB-78	100.00	1.10e+08	0.73 y	35:34		-	0.972	
103	Unk	PCB-81	100.00	1.17e+08	0.74 y	36:03		-	1.07	
104	IS	13C-PCB-81	100.00	1.09e+08	0.81 y	36:02		-	0.963	
105	Unk	PCB-77	100.00	1.17e+08	0.73 y	36:38		-	1.01	
106	IS/RT	13C-PCB-77	100.00	1.16e+08	0.81 y	36:36		-	1.02	
107	Unk	PCB-155	100.00	1.38e+08	1.27 y	34:10		-	1.05	
108	Unk	PCB-150	100.00	1.25e+08	1.26 y	35:22		-	0.959	
109	Unk	PCB-152	100.00	1.23e+08	1.26 y	35:48		-	0.941	
110	Unk	PCB-145	100.00	1.22e+08	1.27 y	36:13		-	0.935	
111	Unk	PCB-136	100.00	1.23e+08	1.26 y	36:32		-	0.944	
112	Unk	PCB-148	100.00	8.85e+07	1.29 y	36:38		-	0.677	
113	Unk	PCB-154	100.00	1.05e+08	1.25 y	37:05		-	0.800	
114	IS	13C-PCB-155	100.00	1.31e+08	1.27 y	34:08		-	1.15	
115	C/Up	13C-PCB-111	100.00	1.30e+08	1.58 y	36:12		-	1.14	
116	RS	13C-PCB-101	100.00	1.14e+08	1.59 y	34:35	1.14e+06	-		
117	Unk	PCB-84	200.00	1.73e+08	1.56 y	34:15		-	0.867	Co-elute PCB 92
118	Unk	PCB-92	200.00	1.73e+08	1.56 y	34:15		-	0.867	Co-elute PCB 84
119	Unk	PCB-89	100.00	8.62e+07	1.56 y	34:25		-	0.862	
120	Unk	PCB-90	200.00	1.96e+08	1.55 y	34:35		-	0.979	Co-elute PCB 101
121	Unk	PCB-101	200.00	1.96e+08	1.55 y	34:35		-	0.979	Co-elute PCB 90
122	Unk	PCB-113	100.00	1.12e+08	1.54 y	34:49		-	1.12	
123	Unk	PCB-99	100.00	1.06e+08	1.56 y	34:54		-	1.06	
124	Unk	PCB-119	100.00	1.26e+08	1.52 y	35:20		-	1.26	
125	Unk	PCB-83	200.00	2.00e+08	1.56 y	35:29		-	1.00	Co-elute PCB 112
126	Unk	PCB-112	200.00	2.00e+08	1.56 y	35:29		-	1.00	Co-elute PCB 83
127	Unk	PCB-109	100.00	1.13e+08	1.56 y	35:39		-	1.13	
128	Unk	PCB-97	100.00	1.06e+08	1.54 y	35:49		-	1.06	
129	Unk	PCB-86	100.00	8.82e+07	1.56 y	35:58		-	0.882	
130	Unk	PCB-125	300.00	3.40e+08	1.54 y	36:06		-	1.13	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	3.40e+08	1.54 y	36:06		-	1.13	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	3.40e+08	1.54 y	36:06		-	1.13	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	2.89e+08	1.64 y	36:15		-	1.45	Co-elute PCB 115
134	Unk	PCB-115	200.00	2.89e+08	1.64 y	36:15		-	1.45	Co-elute PCB 111
135	Unk	PCB-85	200.00	2.03e+08	1.44 y	36:22		-	1.02	Co-elute PCB 116
136	Unk	PCB-116	200.00	2.03e+08	1.44 y	36:22		-	1.02	Co-elute PCB 85
137	Unk	PCB-120	100.00	1.34e+08	1.54 y	36:35		-	1.34	
138	Unk	PCB-110	100.00	1.30e+08	1.55 y	36:43		-	1.30	
139	Unk	PCB-82	100.00	7.50e+07	1.55 y	37:19		-	0.750	
140	Unk	PCB-124	100.00	9.92e+07	1.67 y	37:57		-	0.992	
141	Unk	PCB-108	200.00	1.90e+08	1.44 y	38:07		-	0.950	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.90e+08	1.44 y	38:07		-	0.950	Co-elute PCB 108
143	Unk	PCB-123	100.00	1.03e+08	1.50 y	38:17		-	1.08	
144	IS	13C-PCB-123	100.00	9.48e+07	1.56 y	38:15		-	0.972	
145	Unk	PCB-118	200.00	1.87e+08	1.52 y	38:27		-	0.908	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.87e+08	1.52 y	38:27		-	0.908	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	1.03e+08	1.54 y	38:25		-	1.06	
148	Unk	PCB-114	100.00	9.81e+07	1.48 y	39:03		-	0.969	
149	IS	13C-PCB-114	100.00	1.01e+08	1.58 y	39:01		-	1.04	
150	Unk	PCB-122	100.00	9.45e+07	1.51 y	39:11		-	0.945	
151	Unk	PCB-105	100.00	9.49e+07	1.47 y	39:52		-	0.941	
152	IS	13C-PCB-105	100.00	1.01e+08	1.58 y	39:51		-	1.03	
153	Unk	PCB-127	100.00	8.56e+07	1.51 y	40:10		-	0.856	
154	Unk	PCB-126	100.00	8.72e+07	1.52 y	41:59		-	0.978	
155	IS	13C-PCB-126	100.00	8.92e+07	1.56 y	41:57		-	0.914	

156	Unk	PCB-151	100.00	8.49e+07	1.25 y	37:42	-	0.815	
157	Unk	PCB-135	100.00	9.13e+07	1.22 y	37:55	-	0.877	
158	Unk	PCB-144	100.00	8.50e+07	1.27 y	38:02	-	0.817	
159	Unk	PCB-147	100.00	8.96e+07	1.24 y	38:09	-	0.860	
160	Unk	PCB-139	200.00	1.88e+08	1.23 y	38:23	-	0.902	Co-elute PCB 149
161	Unk	PCB-149	200.00	1.88e+08	1.23 y	38:23	-	0.902	Co-elute PCB 139
162	Unk	PCB-140	100.00	8.68e+07	1.25 y	38:35	-	0.833	
163	Unk	PCB-143	200.00	1.71e+08	1.25 y	38:58	-	0.820	Co-elute PCB 134
164	Unk	PCB-134	200.00	1.71e+08	1.25 y	38:58	-	0.820	Co-elute PCB 143
165	Unk	PCB-131	200.00	1.72e+08	1.23 y	39:14	-	0.827	Co-elute PCB 133
166	Unk	PCB-133	200.00	1.72e+08	1.23 y	39:14	-	0.827	Co-elute PCB 131
167	Unk	PCB-142	100.00	7.34e+07	1.26 y	39:24	-	0.705	
168	Unk	PCB-165	200.00	2.02e+08	1.23 y	39:37	-	0.970	Co-elute PCB 146
169	Unk	PCB-146	200.00	2.02e+08	1.23 y	39:37	-	0.970	Co-elute PCB 165
170	Unk	PCB-161	200.00	1.92e+08	1.29 y	39:49	-	0.920	Co-elute PCB 132
171	Unk	PCB-132	200.00	1.92e+08	1.29 y	39:49	-	0.920	Co-elute PCB 161
172	Unk	PCB-153	100.00	9.85e+07	1.15 y	40:01	-	0.946	
173	Unk	PCB-168	100.00	1.10e+08	1.24 y	40:12	-	1.05	
174	Unk	PCB-141	100.00	8.47e+07	1.26 y	40:42	-	0.813	
175	Unk	PCB-137	100.00	7.87e+07	1.23 y	41:05	-	0.755	
176	Unk	PCB-130	100.00	7.74e+07	1.26 y	41:10	-	0.743	
177	Unk	PCB-138	300.00	3.43e+08	1.23 y	41:31	-	1.10	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	3.43e+08	1.23 y	41:31	-	1.10	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	3.43e+08	1.23 y	41:31	-	1.10	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	2.20e+08	1.23 y	41:44	-	1.06	Co-elute PCB 160
181	Unk	PCB-160	200.00	2.20e+08	1.23 y	41:44	-	1.06	Co-elute PCB 158
182	Unk	PCB-129	100.00	6.90e+07	1.23 y	41:59	-	0.663	
183	Unk	PCB-166	100.00	1.03e+08	1.22 y	42:25	-	0.990	
184	Unk	PCB-159	100.00	1.09e+08	1.22 y	42:42	-	1.05	
185	Unk	PCB-128	200.00	1.88e+08	1.23 y	42:58	-	0.901	Co-elute PCB 162
186	Unk	PCB-162	200.00	1.88e+08	1.23 y	42:58	-	0.901	Co-elute PCB 128
187	Unk	PCB-167	100.00	1.03e+08	1.23 y	43:21	-	0.941	
188	IS	13C-PCB-167	100.00	1.10e+08	1.26 y	43:20	-	1.12	
189	Unk	PCB-156	100.00	1.03e+08	1.24 y	44:35	-	0.992	
190	IS	13C-PCB-156	100.00	1.04e+08	1.23 y	44:34	-	1.07	
191	Unk	PCB-157	100.00	1.01e+08	1.23 y	44:50	-	0.942	
192	IS	13C-PCB-157	100.00	1.07e+08	1.24 y	44:49	-	1.10	
193	Unk	PCB-169	100.00	9.09e+07	1.22 y	46:42	-	0.949	
194	IS	13C-PCB-169	100.00	9.58e+07	1.23 y	46:40	-	0.982	
195	Unk	PCB-188	100.00	1.34e+08	1.05 y	39:39	-	1.11	
196	IS	13C-PCB-188	100.00	1.20e+08	1.06 y	39:37	-	1.23	

197	Unk	PCB-184	100.00	1.30e+08	1.06 y	40:05	-	1.25	
198	Unk	PCB-179	100.00	1.28e+08	1.05 y	40:48	-	1.23	
199	Unk	PCB-176	100.00	1.24e+08	1.06 y	41:15	-	1.19	
200	Unk	PCB-186	100.00	1.23e+08	1.04 y	41:49	-	1.18	
201	Unk	PCB-178	100.00	8.89e+07	1.05 y	42:17	-	0.853	
202	Unk	PCB-175	100.00	9.29e+07	1.09 y	42:37	-	0.892	
203	Unk	PCB-187	200.00	1.97e+08	1.04 y	42:47	-	0.947	Co-elute PCB 182
204	Unk	PCB-182	200.00	1.97e+08	1.04 y	42:47	-	0.947	Co-elute PCB 187
205	Unk	PCB-183	100.00	9.89e+07	1.06 y	43:05	-	0.950	
206	Unk	PCB-185	100.00	8.92e+07	1.06 y	43:43	-	0.857	
207	Unk	PCB-174	100.00	9.28e+07	1.04 y	44:02	-	0.891	
208	Unk	PCB-181	100.00	8.53e+07	1.05 y	44:09	-	0.819	
209	Unk	PCB-177	100.00	7.71e+07	1.05 y	44:19	-	0.741	
210	Unk	PCB-171	100.00	8.58e+07	1.05 y	44:35	-	0.824	
211	Unk	PCB-173	100.00	7.58e+07	1.05 y	44:58	-	0.728	
212	Unk	PCB-172	100.00	7.77e+07	1.04 y	45:23	-	0.747	
213	Unk	PCB-192	100.00	1.00e+08	1.06 y	45:33	-	0.964	
214	Unk	PCB-180	100.00	1.02e+08	1.07 y	45:45	-	0.982	
215	Unk	PCB-193	100.00	1.09e+08	1.05 y	45:54	-	1.05	
216	Unk	PCB-191	100.00	1.01e+08	1.06 y	46:08	-	0.974	
217	Unk	PCB-170	100.00	6.70e+07	1.05 y	47:02	-	0.644	
218	Unk	PCB-190	100.00	9.21e+07	1.05 y	47:12	-	0.884	
219	Unk	PCB-189	100.00	9.63e+07	1.04 y	48:23	-	1.10	
220	IS	13C-PCB-189	100.00	8.79e+07	1.07 y	48:23	-	0.901	
221	Unk	PCB-202	150.00	1.39e+08	0.87 y	44:45	-	0.948	
222	Unk	PCB-201	150.00	1.36e+08	0.86 y	45:13	-	0.925	
223	Unk	PCB-204	150.00	1.35e+08	0.87 y	45:21	-	0.921	
224	Unk	PCB-197	150.00	1.36e+08	0.87 y	45:38	-	0.926	
225	Unk	PCB-200	150.00	1.30e+08	0.87 y	46:22	-	0.883	
226	Unk	PCB-198	150.00	8.81e+07	0.85 y	47:33	-	0.601	
227	Unk	PCB-199	150.00	8.14e+07	0.87 y	47:38	-	0.555	
228	Unk	PCB-203	300.00	1.89e+08	0.86 y	47:53	-	0.645	Co-elute PCB 196
229	Unk	PCB-196	300.00	1.89e+08	0.86 y	47:53	-	0.645	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	9.78e+07	0.91 y	44:44	-	1.00	
231	C/Up	13C-PCB-178	100.00	8.18e+07	1.06 y	42:15	-	0.838	
232	RS	13C-PCB-138	100.00	9.76e+07	1.26 y	41:29	9.76e+05	-	
233	Unk	PCB-195	150.00	7.47e+07	0.88 y	48:59	-	0.749	
234	Unk	PCB-194	150.00	7.59e+07	0.87 y	49:48	-	0.761	
235	Unk	PCB-205	150.00	1.00e+08	0.87 y	50:02	-	1.00	
236	IS	13C-PCB-205	100.00	6.65e+07	0.90 y	50:02	-	1.27	
237	Unk	PCB-208	150.00	1.09e+08	1.33 y	49:07	-	0.930	
238	IS	13C-PCB-208	100.00	7.83e+07	0.79 y	49:06	-	1.49	
239	Unk	PCB-207	150.00	9.86e+07	1.34 y	49:25	-	0.999	
240	Unk	PCB-206	150.00	7.97e+07	1.34 y	51:14	-	0.994	
241	IS	13C-PCB-206	100.00	5.34e+07	0.79 y	51:13	-	1.02	
242	Unk	PCB-209	150.00	1.31e+08	1.18 y	52:25	-	1.06	
243	IS	13C-PCB-209	100.00	8.25e+07	1.18 y	52:25	-	1.58	
244	RS	13C-PCB-194	100.00	5.24e+07	0.91 y	49:47	5.24e+05	-	

Analyst: [illegible] Date: 9/30/16

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/28/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 28SEP16Y Sam:1 Analysis Date: 28-SEP-16 15:21:37

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.13	2.66-3.60	y	48.6	37.5 - 62.5
PCB-3	M/M+2	3.08	2.66-3.60	y	50.8	37.5 - 62.5
PCB-4	M/M+2	1.54	1.33-1.79	y	55.1	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	47.3	37.5 - 62.5
PCB-19	M/M+2	1.02	0.88-1.20	y	50.3	37.5 - 62.5
PCB-37	M/M+2	1.01	0.88-1.20	y	50.8	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	50.3	37.5 - 62.5
PCB-77	M/M+2	0.74	0.65-0.89	y	50.5	37.5 - 62.5
PCB-81	M/M+2	0.76	0.65-0.89	y	50.2	37.5 - 62.5
PCB-104	M+2/M+4	1.56	1.32-1.78	y	50.4	37.5 - 62.5
PCB-105	M+2/M+4	1.51	1.32-1.78	y	53.1	37.5 - 62.5
PCB-114	M+2/M+4	1.53	1.32-1.78	y	51.8	37.5 - 62.5
PCB-118	M+2/M+4	1.53	1.32-1.78	y	57.5	37.5 - 62.5
PCB-123	M+2/M+4	1.52	1.32-1.78	y	46.0	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	52.3	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	50.2	37.5 - 62.5
PCB-156	M+2/M+4	1.23	1.05-1.43	y	49.3	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	51.0	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	52.2	37.5 - 62.5
PCB-169	M+2/M+4	1.22	1.05-1.43	y	49.8	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	49.6	37.5 - 62.5
PCB-189	M+2/M+4	1.04	0.89-1.21	y	50.7	37.5 - 62.5
PCB-202	M+2/M+4	0.87	0.76-1.02	y	52.2	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	53.1	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	49.7	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	51.5	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	49.6	37.5 - 62.5

Analyst: [signature] Date: 9/30/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/28/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 28SEP16Y Sam:1 Analysis Date: 28-SEP-16 15:21:37

	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	3.08	2.66-3.60	y	96.9	50.0 - 145
13C-PCB-3	M/M+2	3.13	2.66-3.60	y	100	50.0 - 145
13C-PCB-4	M/M+2	1.54	1.33-1.79	y	105	50.0 - 145
13C-PCB-15	M/M+2	1.57	1.33-1.79	y	108	50.0 - 145
13C-PCB-19	M/M+2	1.04	0.88-1.20	y	105	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	107	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	107	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	109	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	112	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	100	50.0 - 145
13C-PCB-105	M+2/M+4	1.58	1.32-1.78	y	107	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	106	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	108	50.0 - 145
13C-PCB-123	M+2/M+4	1.56	1.32-1.78	y	108	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	116	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	103	50.0 - 145
13C-PCB-156	M+2/M+4	1.25	1.05-1.43	y	109	50.0 - 145
13C-PCB-157	M+2/M+4	1.24	1.05-1.43	y	108	50.0 - 145
13C-PCB-167	M+2/M+4	1.25	1.05-1.43	y	106	50.0 - 145
13C-PCB-169	M+2/M+4	1.24	1.05-1.43	y	109	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	99.8	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	103	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	110	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	108	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	108	50.0 - 145
13C-PCB-208	M+2/M+4	0.79	0.65-0.89	y	102	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	104	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	109	65.0 - 135
13C-PCB-111	M+2/M+4	1.56	1.32-1.78	y	111	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	104	75.0 - 125

Analyst: _____ Date: 9/30/16

FAL ID: ST092816Y1 Filename: 28SEP16Y Sam:1 Acquired: 28-SEP-16 15:21:37 ICal: DAILY209FAL4-9-28-16Y
Client ID: 1668 CS3 R160816B ConCal: ST092816Y1 EndCal: ST092816Y2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	8.17e+07	3.13 y	14:29	1.00	48.6		2.50	-	-	*	
13C-PCB-1	1.68e+08	3.08 y	14:28	1.29	96.9		2.50				96.9
PCB-3	8.29e+07	3.08 y	16:54	0.96	50.8		2.50	-	-	*	
13C-PCB-3	1.70e+08	3.13 y	16:53	1.26	100		2.50				100
PCB-4	4.76e+07	1.54 y	18:09	0.95	55.1		2.50	-	-	*	
13C-PCB-4	9.08e+07	1.54 y	18:08	0.64	105		2.50				105
PCB-15	7.42e+07	1.56 y	23:40	1.08	47.3		2.50	-	-	*	
13C-PCB-15	1.45e+08	1.57 y	23:39	1.00	108		2.50				108
PCB-19	4.90e+07	1.02 y	22:02	1.04	50.3		2.50	-	-	*	
13C-PCB-19	9.38e+07	1.04 y	22:01	0.66	105		2.50				105
13C-PCB-9	1.35e+08	1.55 y	19:48	-	81.2		2.50				
PCB-37	5.69e+07	1.01 y	30:19	1.08	50.8		2.50	-	-	*	
13C-PCB-37	1.04e+08	1.06 y	30:17	1.03	107		2.50				107
PCB-54	5.79e+07	0.78 y	25:34	1.04	50.3		2.50	-	-	*	
13C-PCB-54	1.11e+08	0.81 y	25:33	1.09	107		2.50				107
PCB-104	5.25e+07	1.56 y	30:01	1.13	50.4		2.50	-	-	*	
13C-PCB-104	9.24e+07	1.60 y	29:60	0.98	100		2.50				100
13C-PCB-28	1.04e+08	1.07 y	26:37	1.01	109		2.50				109
13C-PCB-52	9.43e+07	0.79 y	28:54	-	79.4		2.50				
PCB-81	4.95e+07	0.76 y	36:05	1.07	50.2		2.50	-	-	*	
13C-PCB-81	9.23e+07	0.79 y	36:03	0.96	112		2.50				112
PCB-77	4.84e+07	0.74 y	36:38	1.01	50.5		2.50	-	-	*	
13C-PCB-77	9.48e+07	0.80 y	36:36	1.02	109		2.50				109
PCB-155	5.33e+07	1.28 y	34:11	1.05	50.2		2.50	-	-	*	
13C-PCB-155	1.01e+08	1.28 y	34:10	1.15	103		2.50				103
13C-PCB-111	1.08e+08	1.56 y	36:14	1.14	111		2.50				111
13C-PCB-101	8.54e+07	1.58 y	34:35	-	75.2		2.50				
PCB-123	3.99e+07	1.52 y	38:17	1.08	46.0		2.50	-	-	*	
13C-PCB-123	8.01e+07	1.56 y	38:15	0.97	108		2.50				108
PCB-118	4.53e+07	1.53 y	38:27	0.91	57.5		2.50	-	-	*	
13C-PCB-118	8.67e+07	1.58 y	38:25	1.06	108		2.50				108
PCB-114	4.22e+07	1.53 y	39:05	0.97	51.8		2.50	-	-	*	
13C-PCB-114	8.40e+07	1.59 y	39:03	1.04	106		2.50				106
PCB-105	4.21e+07	1.51 y	39:52	0.94	53.1		2.50	-	-	*	
13C-PCB-105	8.44e+07	1.58 y	39:51	1.03	107		2.50				107
PCB-126	4.14e+07	1.55 y	41:59	0.98	52.3		2.50	-	-	*	
13C-PCB-126	8.09e+07	1.59 y	41:57	0.91	116		2.50				116
PCB-167	4.44e+07	1.24 y	43:21	0.94	52.2		2.50	-	-	*	
13C-PCB-167	9.05e+07	1.25 y	43:20	1.12	106		2.50				106
PCB-156	4.35e+07	1.23 y	44:35	0.99	49.3		2.50	-	-	*	
13C-PCB-156	8.88e+07	1.25 y	44:34	1.07	109		2.50				109
PCB-157	4.35e+07	1.24 y	44:50	0.94	51.0		2.50	-	-	*	
13C-PCB-157	9.04e+07	1.24 y	44:49	1.10	108		2.50				108
PCB-169	3.83e+07	1.22 y	46:42	0.95	49.8		2.50	-	-	*	
13C-PCB-169	8.11e+07	1.24 y	46:42	0.98	109		2.50				109
PCB-188	5.16e+07	1.05 y	39:39	1.11	49.6		2.50	-	-	*	
13C-PCB-188	9.36e+07	1.06 y	39:39	1.23	99.8		2.50				99.8
PCB-189	3.93e+07	1.04 y	48:24	1.10	50.7		2.50	-	-	*	
13C-PCB-189	7.07e+07	1.07 y	48:23	0.90	103		2.50				103
PCB-202	4.14e+07	0.87 y	44:47	0.95	52.2		2.50	-	-	*	
13C-PCB-202	8.36e+07	0.91 y	44:45	1.00	110		2.50				110
13C-PCB-178	6.61e+07	1.06 y	42:17	0.84	104		2.50				104
13C-PCB-138	7.61e+07	1.25 y	41:29	-	78.0		2.50				

FAL ID: ST092816Y1 Filename: 28SEP16Y Sam:1 Acquired: 28-SEP-16 15:21:37 ICal: DAILY209FAL4-9-28-16Y2 of 2
Client ID: 1668 CS3 R160816B ConCal: ST092816Y1 EndCal: ST092816Y2
Results: GC Column: DB1 Amount: 1.000

PCB-205	3.08e+07	0.88	y	50:04	1.00	53.1	2.50	-	-	*	
13C-PCB-205	5.78e+07	0.91	y	50:02	1.27	108	2.50				108
PCB-208	3.10e+07	1.34	y	49:07	0.93	51.5	2.50	-	-	*	
13C-PCB-208	6.47e+07	0.79	y	49:07	1.49	102	2.50				102
PCB-206	2.29e+07	1.36	y	51:14	0.99	49.7	2.50	-	-	*	
13C-PCB-206	4.63e+07	0.79	y	51:14	1.02	108	2.50				108
PCB-209	3.62e+07	1.18	y	52:26	1.06	49.6	2.50	-	-	*	
13C-PCB-209	6.91e+07	1.19	y	52:25	1.58	104	2.50				104
13C-PCB-194	4.23e+07	0.90	y	49:47	-	80.7	2.50				

Analyst: _____ Date: 9/30/16

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/28/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 28SEP16Y Sam:15 Analysis Date: 29-SEP-16 04:32:21

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.15	2.66-3.60	y	53.1	37.5 - 62.5
PCB-3	M/M+2	3.14	2.66-3.60	y	56.6	37.5 - 62.5
PCB-4	M/M+2	1.47	1.33-1.79	y	53.5	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	49.5	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	52.7	37.5 - 62.5
PCB-37	M/M+2	1.01	0.88-1.20	y	51.6	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	51.5	37.5 - 62.5
PCB-77	M/M+2	0.74	0.65-0.89	y	51.7	37.5 - 62.5
PCB-81	M/M+2	0.74	0.65-0.89	y	50.9	37.5 - 62.5
PCB-104	M+2/M+4	1.58	1.32-1.78	y	51.3	37.5 - 62.5
PCB-105	M+2/M+4	1.51	1.32-1.78	y	51.5	37.5 - 62.5
PCB-114	M+2/M+4	1.49	1.32-1.78	y	51.8	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	51.8	37.5 - 62.5
PCB-123	M+2/M+4	1.51	1.32-1.78	y	43.8	37.5 - 62.5
PCB-126	M+2/M+4	1.51	1.32-1.78	y	49.5	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	51.6	37.5 - 62.5
PCB-156	M+2/M+4	1.24	1.05-1.43	y	48.5	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	50.3	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	51.9	37.5 - 62.5
PCB-169	M+2/M+4	1.23	1.05-1.43	y	50.1	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	51.9	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	51.9	37.5 - 62.5
PCB-202	M+2/M+4	0.87	0.76-1.02	y	54.2	37.5 - 62.5
PCB-205	M+2/M+4	0.87	0.76-1.02	y	50.5	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	49.1	37.5 - 62.5
PCB-208	M+4/M+6	1.33	1.13-1.53	y	50.6	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	51.4	37.5 - 62.5

Analyst: _____ Date: 9/30/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/28/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 28SEP16Y Sam:15 Analysis Date: 29-SEP-16 04:32:21

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.16	2.66-3.60	y	86.3	50.0 - 145
13C-PCB-3	M/M+2	3.17	2.66-3.60	y	86.8	50.0 - 145
13C-PCB-4	M/M+2	1.54	1.33-1.79	y	97.9	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	106	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	88.5	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	119	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	111	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	132	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	132	50.0 - 145
13C-PCB-104	M+2/M+4	1.62	1.32-1.78	y	86.9	50.0 - 145
13C-PCB-105	M+2/M+4	1.58	1.32-1.78	y	120	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	116	50.0 - 145
13C-PCB-118	M+2/M+4	1.55	1.32-1.78	y	116	50.0 - 145
13C-PCB-123	M+2/M+4	1.55	1.32-1.78	y	122	50.0 - 145
13C-PCB-126	M+2/M+4	1.55	1.32-1.78	y	131	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	93.3	50.0 - 145
13C-PCB-156	M+2/M+4	1.25	1.05-1.43	y	114	50.0 - 145
13C-PCB-157	M+2/M+4	1.24	1.05-1.43	y	113	50.0 - 145
13C-PCB-167	M+2/M+4	1.24	1.05-1.43	y	114	50.0 - 145
13C-PCB-169	M+2/M+4	1.23	1.05-1.43	y	118	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	90.1	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	101	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	83.6	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	98.9	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	92.7	50.0 - 145
13C-PCB-208	M+2/M+4	0.79	0.65-0.89	y	90.3	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	79.4	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.06	0.88-1.20	y	130	65.0 - 135
13C-PCB-111	M+2/M+4	1.57	1.32-1.78	y	114	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	95.8	75.0 - 125

Analyst: _____ Date: 9/30/16

FAL ID: ST092816Y2 Filename: 28SEP16Y Sam:15 Acquired: 29-SEP-16 04:32:21 ICal: DAILY209FAL4-9-28-16Y
Client ID: 1668 CS3 R160816B ConCal: ST092816Y1 EndCal: ST092816Y2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.05e+07	3.15 y	14:30	1.00	53.1		2.50	-	-	*	
13C-PCB-1	1.14e+08	3.16 y	14:29	1.29	86.3		2.50				86.3
PCB-3	6.10e+07	3.14 y	16:56	0.96	56.6		2.50	-	-	*	
13C-PCB-3	1.12e+08	3.17 y	16:55	1.26	86.8		2.50				86.8
PCB-4	3.28e+07	1.47 y	18:10	0.95	53.5		2.50	-	-	*	
13C-PCB-4	6.44e+07	1.54 y	18:10	0.64	97.9		2.50				97.9
PCB-15	5.78e+07	1.56 y	23:41	1.08	49.5		2.50	-	-	*	
13C-PCB-15	1.08e+08	1.59 y	23:40	1.00	106		2.50				106
PCB-19	3.29e+07	1.04 y	22:03	1.04	52.7		2.50	-	-	*	
13C-PCB-19	6.00e+07	1.08 y	22:02	0.66	88.5		2.50				88.5
13C-PCB-9	1.03e+08	1.57 y	19:50	-	61.8		2.50				
PCB-37	4.16e+07	1.01 y	30:20	1.08	51.6		2.50	-	-	*	
13C-PCB-37	7.49e+07	1.09 y	30:19	1.03	119		2.50				119
PCB-54	3.99e+07	0.78 y	25:35	1.04	51.5		2.50	-	-	*	
13C-PCB-54	7.45e+07	0.80 y	25:34	1.09	111		2.50				111
PCB-104	3.03e+07	1.58 y	30:02	1.13	51.3		2.50	-	-	*	
13C-PCB-104	5.24e+07	1.62 y	30:01	0.98	86.9		2.50				86.9
13C-PCB-28	8.11e+07	1.06 y	26:39	1.01	130		2.50				130
13C-PCB-52	6.16e+07	0.79 y	28:55	-	51.8		2.50				
PCB-81	3.81e+07	0.74 y	36:05	1.07	50.9		2.50	-	-	*	
13C-PCB-81	7.00e+07	0.81 y	36:03	0.96	132		2.50				132
PCB-77	3.87e+07	0.74 y	36:39	1.01	51.7		2.50	-	-	*	
13C-PCB-77	7.40e+07	0.80 y	36:38	1.02	132		2.50				132
PCB-155	3.20e+07	1.27 y	34:11	1.05	51.6		2.50	-	-	*	
13C-PCB-155	5.89e+07	1.28 y	34:10	1.15	93.3		2.50				93.3
13C-PCB-111	7.12e+07	1.57 y	36:14	1.14	114		2.50				114
13C-PCB-101	5.49e+07	1.58 y	34:36	-	48.3		2.50				
PCB-123	3.00e+07	1.51 y	38:17	1.08	43.8		2.50	-	-	*	
13C-PCB-123	6.31e+07	1.55 y	38:15	0.97	122		2.50				122
PCB-118	3.07e+07	1.54 y	38:27	0.91	51.8		2.50	-	-	*	
13C-PCB-118	6.53e+07	1.55 y	38:27	1.06	116		2.50				116
PCB-114	3.22e+07	1.49 y	39:05	0.97	51.8		2.50	-	-	*	
13C-PCB-114	6.41e+07	1.59 y	39:03	1.04	116		2.50				116
PCB-105	3.19e+07	1.51 y	39:54	0.94	51.5		2.50	-	-	*	
13C-PCB-105	6.58e+07	1.58 y	39:52	1.03	120		2.50				120
PCB-126	3.08e+07	1.51 y	42:01	0.98	49.5		2.50	-	-	*	
13C-PCB-126	6.36e+07	1.55 y	41:59	0.91	131		2.50				131
PCB-167	3.32e+07	1.24 y	43:23	0.94	51.9		2.50	-	-	*	
13C-PCB-167	6.80e+07	1.24 y	43:21	1.12	114		2.50				114
PCB-156	3.11e+07	1.24 y	44:35	0.99	48.5		2.50	-	-	*	
13C-PCB-156	6.46e+07	1.25 y	44:35	1.07	114		2.50				114
PCB-157	3.12e+07	1.24 y	44:52	0.94	50.3		2.50	-	-	*	
13C-PCB-157	6.59e+07	1.24 y	44:50	1.10	113		2.50				113
PCB-169	2.92e+07	1.23 y	46:44	0.95	50.1		2.50	-	-	*	
13C-PCB-169	6.15e+07	1.23 y	46:42	0.98	118		2.50				118
PCB-188	3.41e+07	1.06 y	39:41	1.11	51.9		2.50	-	-	*	
13C-PCB-188	5.91e+07	1.07 y	39:39	1.23	90.1		2.50				90.1
PCB-189	2.75e+07	1.05 y	48:24	1.10	51.9		2.50	-	-	*	
13C-PCB-189	4.83e+07	1.07 y	48:23	0.90	101		2.50				101
PCB-202	2.29e+07	0.87 y	44:47	0.95	54.2		2.50	-	-	*	
13C-PCB-202	4.46e+07	0.91 y	44:45	1.00	83.6		2.50				83.6
13C-PCB-178	4.27e+07	1.06 y	42:17	0.84	95.8		2.50				95.8
13C-PCB-138	5.32e+07	1.25 y	41:29	-	54.5		2.50				

FAL ID: ST092816Y2 Filename: 28SEP16Y Sam:15 Acquired: 29-SEP-16 04:32:21 ICal: DAILY209FAL4-9-28-16Y2 of 2
Client ID: 1668 CS3 R160816B ConCal: ST092816Y1 EndCal: ST092816Y2
Results: GC Column: DB1 Amount: 1.000

PCB-205	2.19e+07	0.87	y	50:04	1.00	50.5	2.50	-	-	*	
13C-PCB-205	4.31e+07	0.90	y	50:04	1.27	98.9	2.50				98.9
PCB-208	2.18e+07	1.33	y	49:08	0.93	50.6	2.50	-	-	*	
13C-PCB-208	4.63e+07	0.79	y	49:07	1.49	90.3	2.50				90.3
PCB-206	1.59e+07	1.37	y	51:16	0.99	49.1	2.50	-	-	*	
13C-PCB-206	3.25e+07	0.79	y	51:14	1.02	92.7	2.50				92.7
PCB-209	2.33e+07	1.19	y	52:28	1.06	51.4	2.50	-	-	*	
13C-PCB-209	4.29e+07	1.19	y	52:26	1.58	79.4	2.50				79.4
13C-PCB-194	3.43e+07	0.91	y	49:48	-	65.5	2.50				

Analyst: _____ Date: 9/30/16

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/28/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 28SEP16Y Sam:23 Analysis Date: 29-SEP-16 12:04:13

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.13	2.66-3.60	y	51.7	37.5 - 62.5
PCB-3	M/M+2	3.11	2.66-3.60	y	54.9	37.5 - 62.5
PCB-4	M/M+2	1.54	1.33-1.79	y	58.9	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	50.6	37.5 - 62.5
PCB-19	M/M+2	1.03	0.88-1.20	y	52.4	37.5 - 62.5
PCB-37	M/M+2	1.03	0.88-1.20	y	53.5	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	51.9	37.5 - 62.5
PCB-77	M/M+2	0.76	0.65-0.89	y	54.0	37.5 - 62.5
PCB-81	M/M+2	0.77	0.65-0.89	y	53.7	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	52.1	37.5 - 62.5
PCB-105	M+2/M+4	1.57	1.32-1.78	y	57.0	37.5 - 62.5
PCB-114	M+2/M+4	1.55	1.32-1.78	y	55.3	37.5 - 62.5
PCB-118	M+2/M+4	1.55	1.32-1.78	y	58.5	37.5 - 62.5
PCB-123	M+2/M+4	1.52	1.32-1.78	y	49.0	37.5 - 62.5
PCB-126	M+2/M+4	1.56	1.32-1.78	y	56.3	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	51.6	37.5 - 62.5
PCB-156	M+2/M+4	1.24	1.05-1.43	y	50.6	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	51.3	37.5 - 62.5
PCB-167	M+2/M+4	1.23	1.05-1.43	y	52.1	37.5 - 62.5
PCB-169	M+2/M+4	1.24	1.05-1.43	y	50.6	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	51.7	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	51.7	37.5 - 62.5
PCB-202	M+2/M+4	0.87	0.76-1.02	y	53.5	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	54.3	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	50.6	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	52.2	37.5 - 62.5
PCB-209	M+4/M+6	1.17	0.99-1.33	y	50.3	37.5 - 62.5

Analyst: _____ Date: 9/30/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 9/28/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 28SEP16Y Sam:23 Analysis Date: 29-SEP-16 12:04:13

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.16	2.66-3.60	y	86.4	50.0 - 145
13C-PCB-3	M/M+2	3.21	2.66-3.60	y	88.4	50.0 - 145
13C-PCB-4	M/M+2	1.58	1.33-1.79	y	99.8	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	106	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	87.2	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	140	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	111	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	135	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	139	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	84.8	50.0 - 145
13C-PCB-105	M+2/M+4	1.62	1.32-1.78	y	126	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	126	50.0 - 145
13C-PCB-118	M+2/M+4	1.60	1.32-1.78	y	130	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	134	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	137	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	92.5	50.0 - 145
13C-PCB-156	M+2/M+4	1.25	1.05-1.43	y	117	50.0 - 145
13C-PCB-157	M+2/M+4	1.24	1.05-1.43	y	114	50.0 - 145
13C-PCB-167	M+2/M+4	1.24	1.05-1.43	y	112	50.0 - 145
13C-PCB-169	M+2/M+4	1.22	1.05-1.43	y	123	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	88.1	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	105	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	88.1	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	98.6	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	87.9	50.0 - 145
13C-PCB-208	M+2/M+4	0.79	0.65-0.89	y	88.9	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	77.5	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	152	65.0 - 135 OK 39/30/16 Thio to CSI
13C-PCB-111	M+2/M+4	1.58	1.32-1.78	y	113	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	91.9	75.0 - 125

Analyst: [signature] Date: 9/30/16

FAL ID: ST092816Y3 Filename: 28SEP16Y Sam:23 Acquired: 29-SEP-16 12:04:13 ICal: DAILY209FAL4-9-28-16Y 1 of 2
Client ID: 1668 CS3 R160816B ConCal: ST092816Y2 EndCal: ST092816Y3
Results: GC Column: DB1 Amount: 1.000

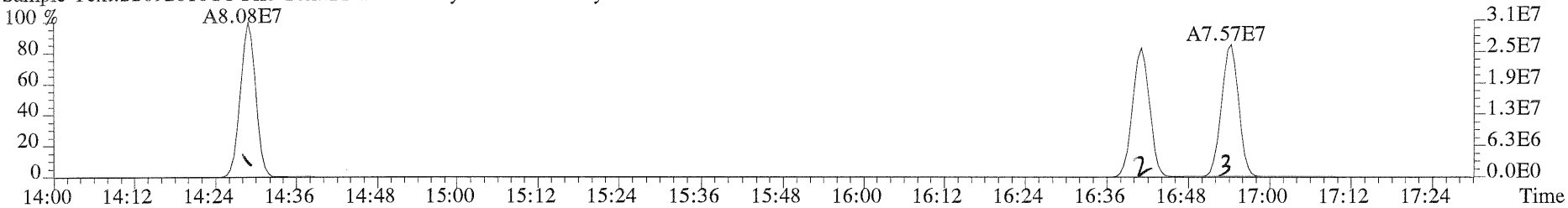
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.96e+07	3.13 y	14:29	1.00	51.7		2.50	-	-	*	
13C-PCB-1	1.35e+08	3.16 y	14:28	1.29	86.4		2.50				86.4
PCB-3	7.11e+07	3.11 y	16:55	0.96	54.9		2.50	-	-	*	
13C-PCB-3	1.35e+08	3.21 y	16:54	1.26	88.4		2.50				88.4
PCB-4	4.34e+07	1.54 y	18:09	0.95	58.9		2.50	-	-	*	
13C-PCB-4	7.75e+07	1.58 y	18:08	0.64	99.8		2.50				99.8
PCB-15	7.03e+07	1.57 y	23:40	1.08	50.6		2.50	-	-	*	
13C-PCB-15	1.28e+08	1.59 y	23:39	1.00	106		2.50				106
PCB-19	3.80e+07	1.03 y	22:02	1.04	52.4		2.50	-	-	*	
13C-PCB-19	6.98e+07	1.07 y	22:01	0.66	87.2		2.50				87.2
13C-PCB-9	1.21e+08	1.59 y	19:49	-	73.0		2.50				
PCB-37	6.03e+07	1.03 y	30:18	1.08	53.5		2.50	-	-	*	
13C-PCB-37	1.05e+08	1.07 y	30:17	1.03	140		2.50				140
PCB-54	4.74e+07	0.78 y	25:35	1.04	51.9		2.50	-	-	*	
13C-PCB-54	8.78e+07	0.80 y	25:33	1.09	111		2.50				111
PCB-104	3.55e+07	1.59 y	30:01	1.13	52.1		2.50	-	-	*	
13C-PCB-104	6.04e+07	1.61 y	29:59	0.98	84.8		2.50				84.8
13C-PCB-28	1.12e+08	1.07 y	26:37	1.01	152		2.50				152
13C-PCB-52	7.27e+07	0.79 y	28:54	-	61.2		2.50				
PCB-81	4.83e+07	0.77 y	36:05	1.07	53.7		2.50	-	-	*	
13C-PCB-81	8.41e+07	0.80 y	36:03	0.96	139		2.50				139
PCB-77	4.74e+07	0.76 y	36:37	1.01	54.0		2.50	-	-	*	
13C-PCB-77	8.69e+07	0.81 y	36:36	1.02	135		2.50				135
PCB-155	3.64e+07	1.28 y	34:11	1.05	51.6		2.50	-	-	*	
13C-PCB-155	6.71e+07	1.28 y	34:08	1.15	92.5		2.50				92.5
13C-PCB-111	8.15e+07	1.58 y	36:13	1.14	113		2.50				113
13C-PCB-101	6.30e+07	1.59 y	34:35	-	55.5		2.50				
PCB-123	4.01e+07	1.52 y	38:17	1.08	49.0		2.50	-	-	*	
13C-PCB-123	7.55e+07	1.58 y	38:15	0.97	134		2.50				134
PCB-118	4.20e+07	1.55 y	38:27	0.91	58.5		2.50	-	-	*	
13C-PCB-118	7.92e+07	1.60 y	38:25	1.06	130		2.50				130
PCB-114	4.06e+07	1.55 y	39:04	0.97	55.3		2.50	-	-	*	
13C-PCB-114	7.57e+07	1.61 y	39:03	1.04	126		2.50				126
PCB-105	4.03e+07	1.57 y	39:52	0.94	57.0		2.50	-	-	*	
13C-PCB-105	7.51e+07	1.62 y	39:51	1.03	126		2.50				126
PCB-126	4.01e+07	1.56 y	41:59	0.98	56.3		2.50	-	-	*	
13C-PCB-126	7.27e+07	1.59 y	41:57	0.91	137		2.50				137
PCB-167	3.57e+07	1.23 y	43:21	0.94	52.1		2.50	-	-	*	
13C-PCB-167	7.27e+07	1.24 y	43:20	1.12	112		2.50				112
PCB-156	3.63e+07	1.24 y	44:35	0.99	50.6		2.50	-	-	*	
13C-PCB-156	7.23e+07	1.25 y	44:34	1.07	117		2.50				117
PCB-157	3.51e+07	1.25 y	44:50	0.94	51.3		2.50	-	-	*	
13C-PCB-157	7.25e+07	1.24 y	44:48	1.10	114		2.50				114
PCB-169	3.35e+07	1.24 y	46:42	0.95	50.6		2.50	-	-	*	
13C-PCB-169	6.97e+07	1.22 y	46:42	0.98	123		2.50				123
PCB-188	3.61e+07	1.05 y	39:39	1.11	51.7		2.50	-	-	*	
13C-PCB-188	6.29e+07	1.09 y	39:37	1.23	88.1		2.50				88.1
PCB-189	3.11e+07	1.06 y	48:24	1.10	51.7		2.50	-	-	*	
13C-PCB-189	5.48e+07	1.07 y	48:22	0.90	105		2.50				105
PCB-202	2.59e+07	0.87 y	44:45	0.95	53.5		2.50	-	-	*	
13C-PCB-202	5.11e+07	0.91 y	44:45	1.00	88.1		2.50				88.1
13C-PCB-178	4.46e+07	1.06 y	42:15	0.84	91.9		2.50				91.9
13C-PCB-138	5.79e+07	1.23 y	41:29	-	59.3		2.50				

FAL ID: ST092816Y3 Filename: 28SEP16Y Sam:23 Acquired: 29-SEP-16 12:04:13 ICal: DAILY209FAL4-9-28-16Y2 of 2
Client ID: 1668 CS3 R160816B ConCal: ST092816Y2 EndCal: ST092816Y3
Results: GC Column: DB1 Amount: 1.000

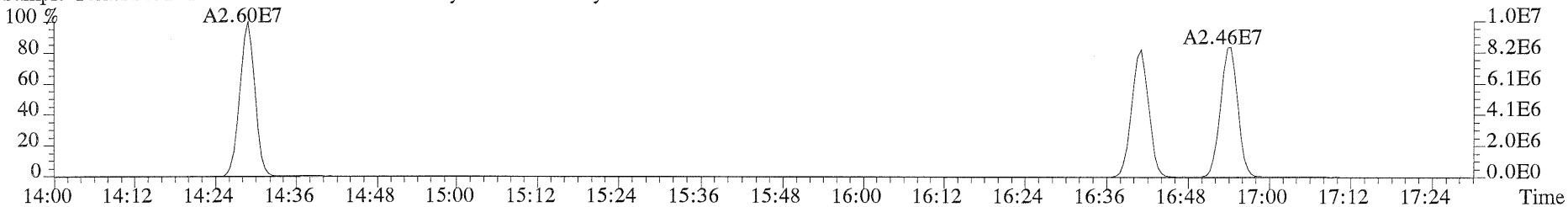
PCB-205	2.68e+07	0.89	y	50:04	1.00	54.3	2.50	-	-	*	
13C-PCB-205	4.92e+07	0.90	y	50:02	1.27	98.6	2.50				98.6
PCB-208	2.53e+07	1.36	y	49:07	0.93	52.2	2.50	-	-	*	
13C-PCB-208	5.22e+07	0.79	y	49:07	1.49	88.9	2.50				88.9
PCB-206	1.77e+07	1.36	y	51:14	0.99	50.6	2.50	-	-	*	
13C-PCB-206	3.52e+07	0.80	y	51:14	1.02	87.9	2.50				87.9
PCB-209	2.55e+07	1.17	y	52:26	1.06	50.3	2.50	-	-	*	
13C-PCB-209	4.80e+07	1.19	y	52:25	1.58	77.5	2.50				77.5
13C-PCB-194	3.93e+07	0.92	y	49:47	-	75.0	2.50				

Analyst: _____ Date: 9/30/16

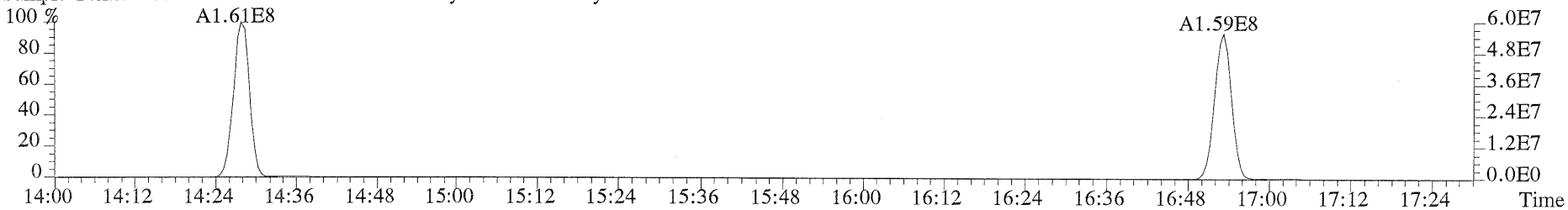
File:28SEP16Y #1-783 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



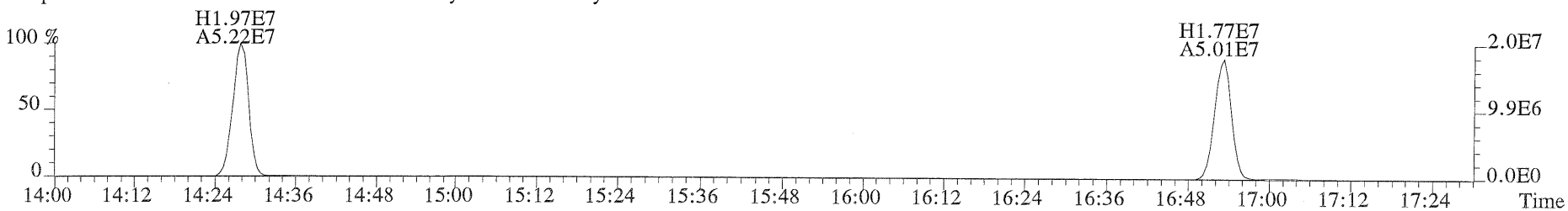
File:28SEP16Y #1-783 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



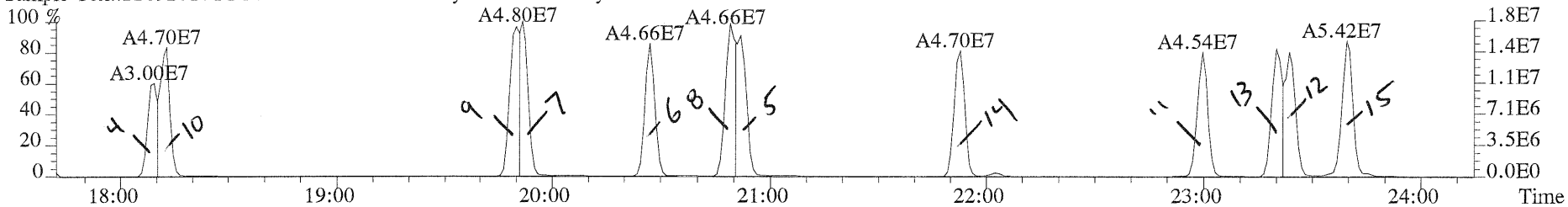
File:28SEP16Y #1-783 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



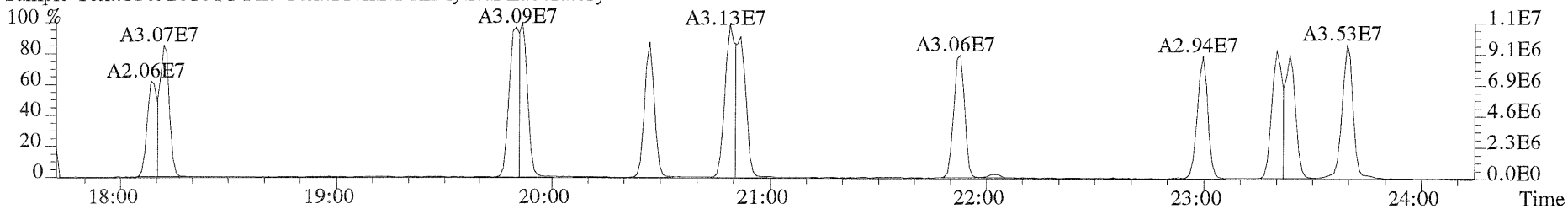
File:28SEP16Y #1-783 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



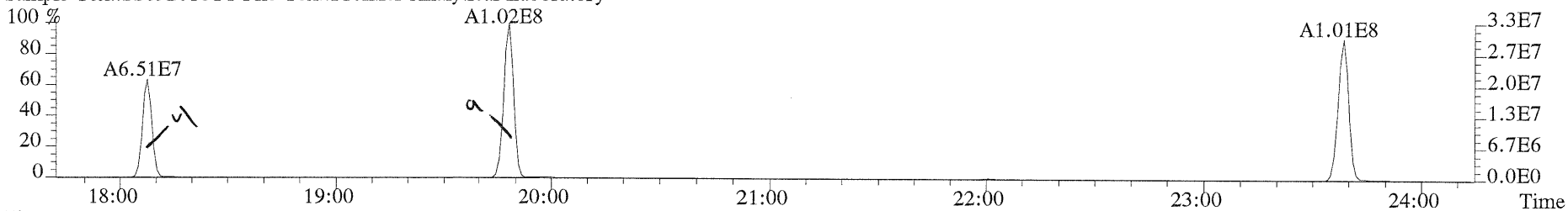
File:28SEP16Y #1-509 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



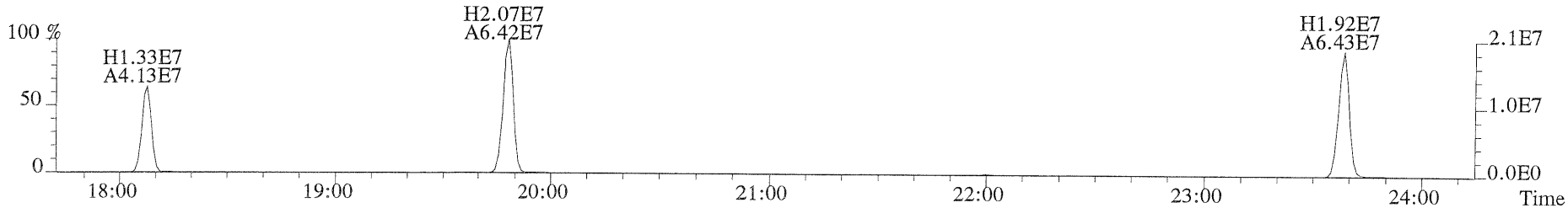
File:28SEP16Y #1-509 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



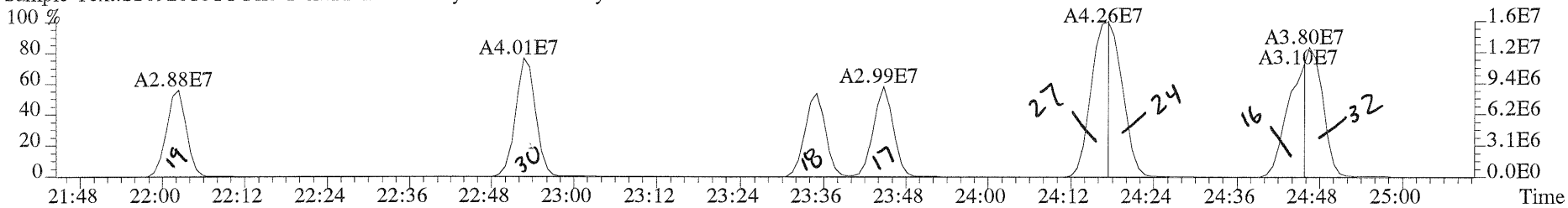
File:28SEP16Y #1-509 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



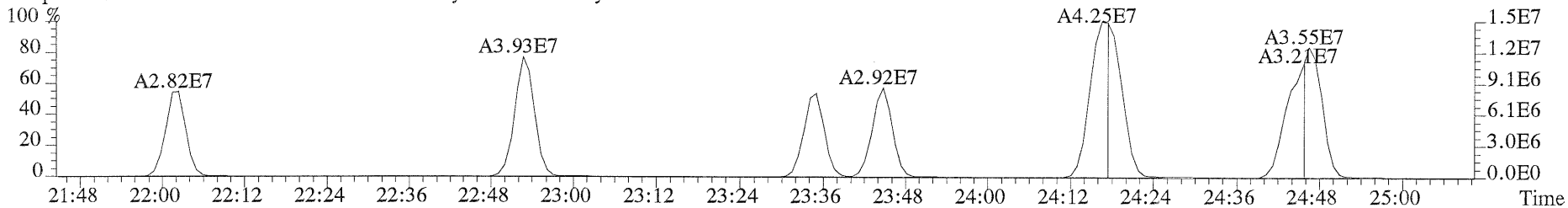
File:28SEP16Y #1-509 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



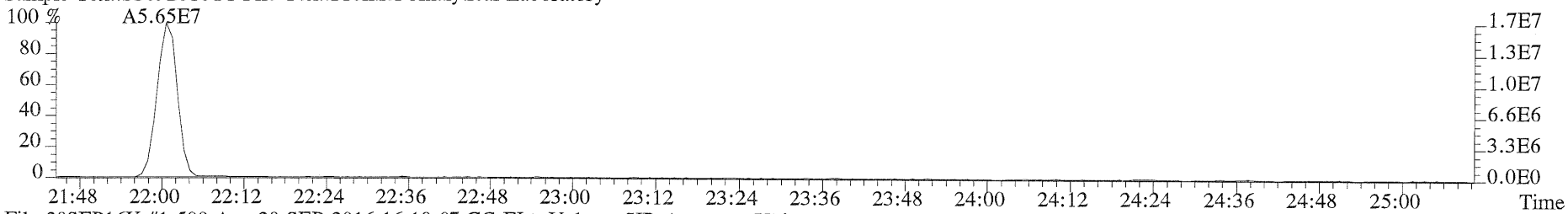
File:28SEP16Y #1-509 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



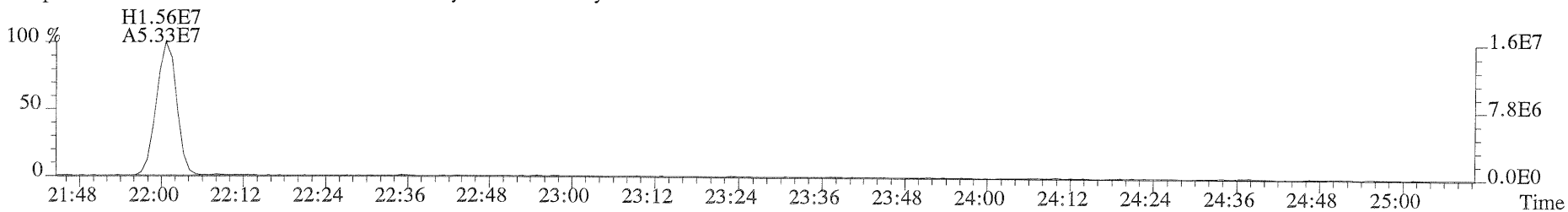
File:28SEP16Y #1-509 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



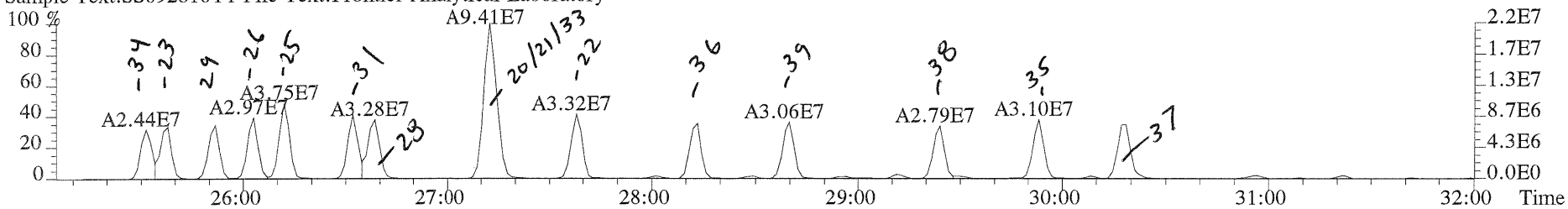
File:28SEP16Y #1-509 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



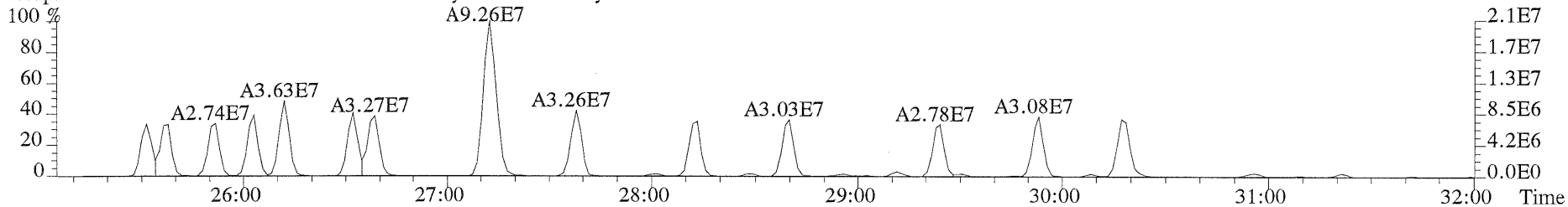
File:28SEP16Y #1-509 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



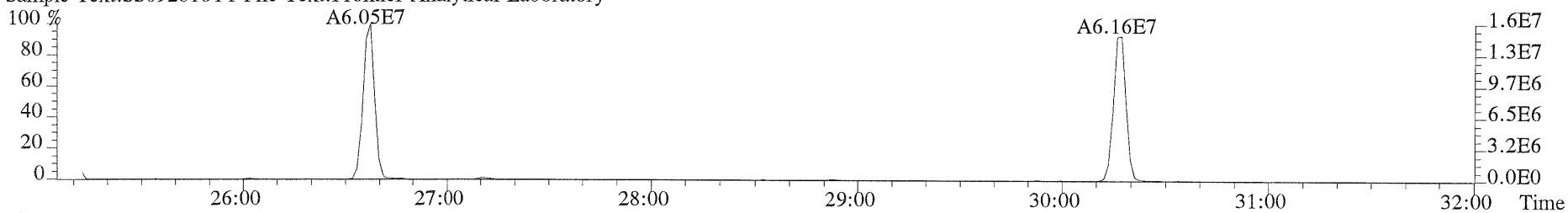
File:28SEP16Y #1-403 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



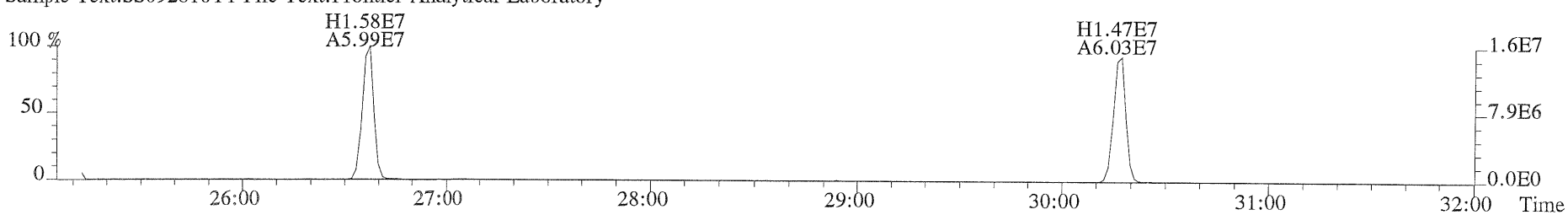
File:28SEP16Y #1-403 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



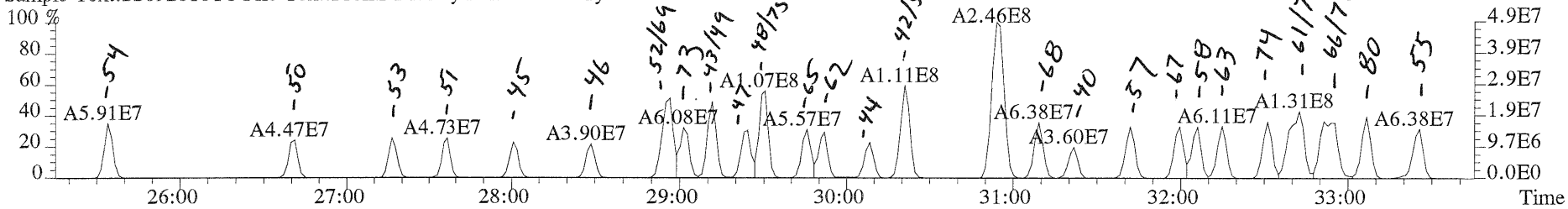
File:28SEP16Y #1-403 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



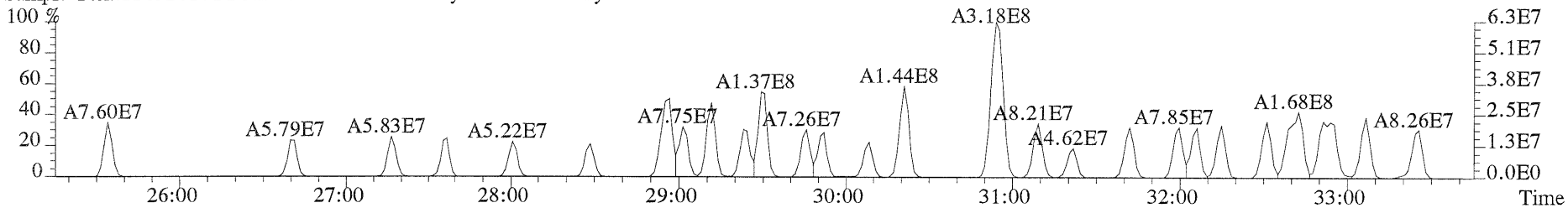
File:28SEP16Y #1-403 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



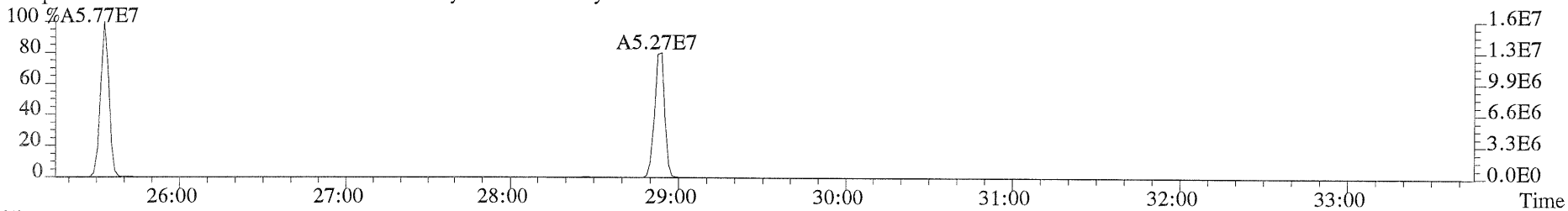
File:28SEP16Y #1-403 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



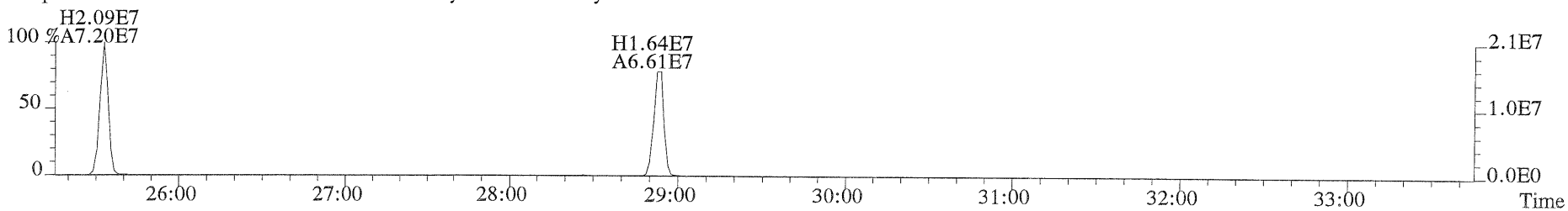
File:28SEP16Y #1-403 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



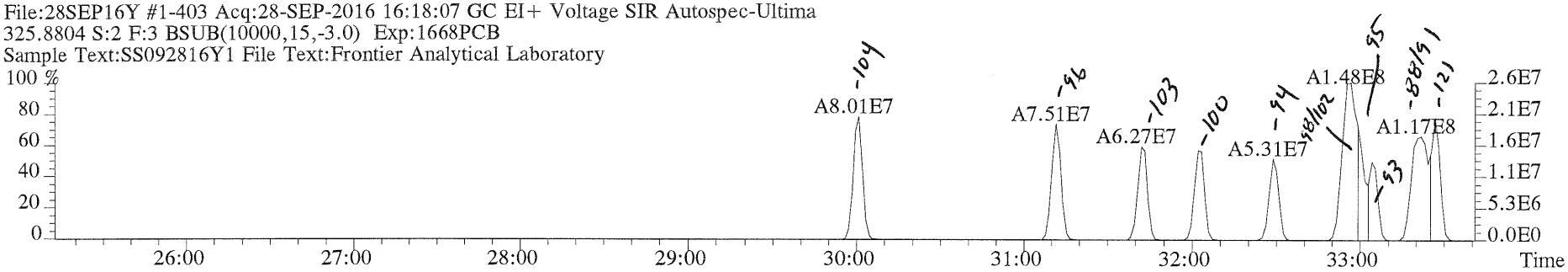
File:28SEP16Y #1-403 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



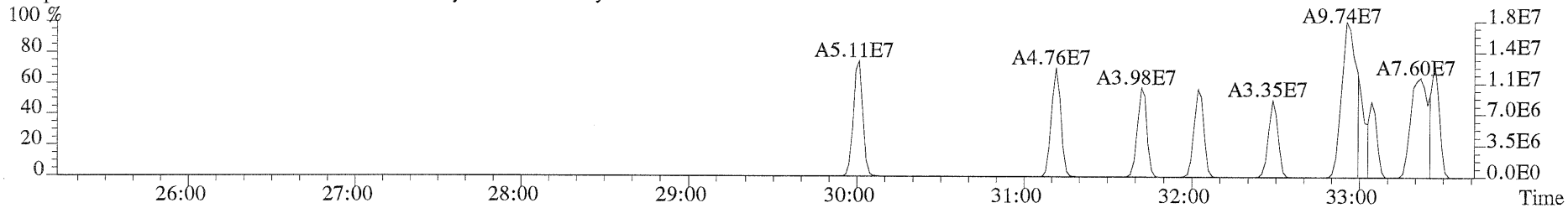
File:28SEP16Y #1-403 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



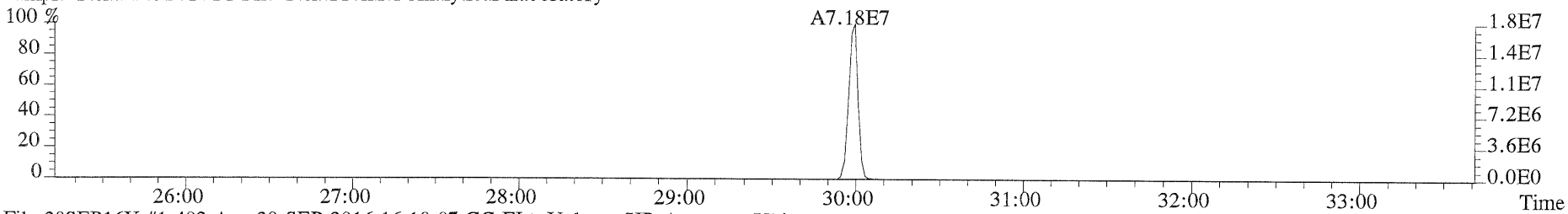
File:28SEP16Y #1-403 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



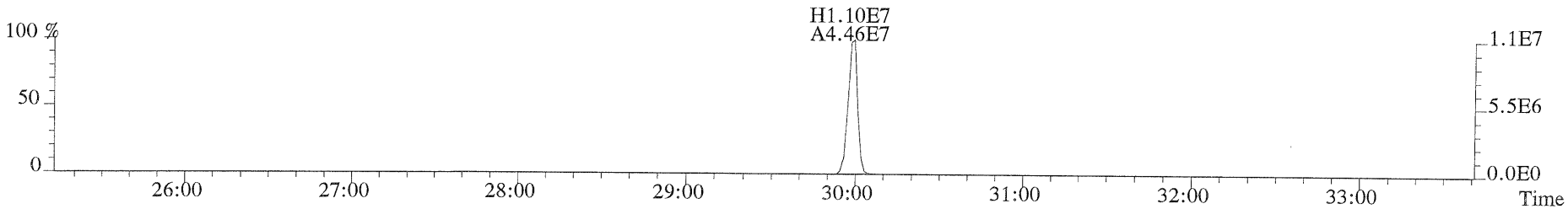
File:28SEP16Y #1-403 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



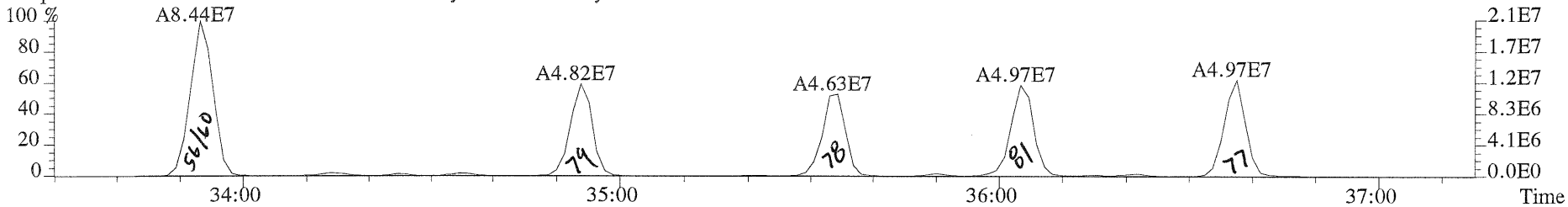
File:28SEP16Y #1-403 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



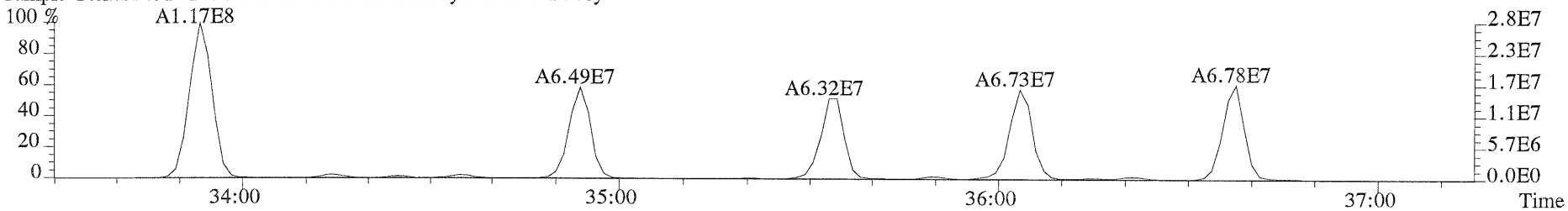
File:28SEP16Y #1-403 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



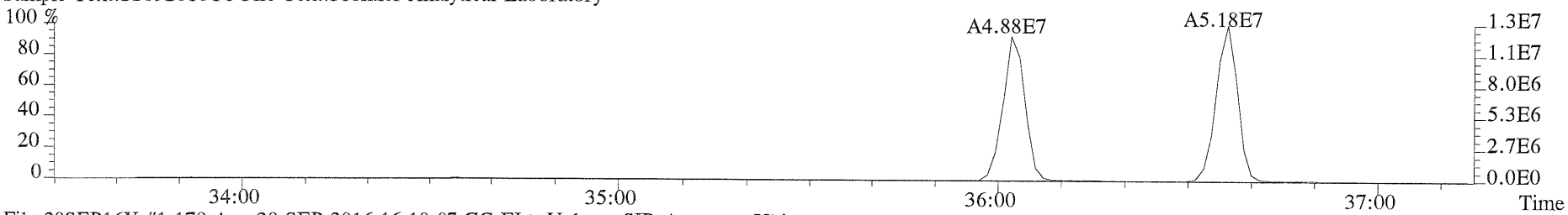
File:28SEP16Y #1-179 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



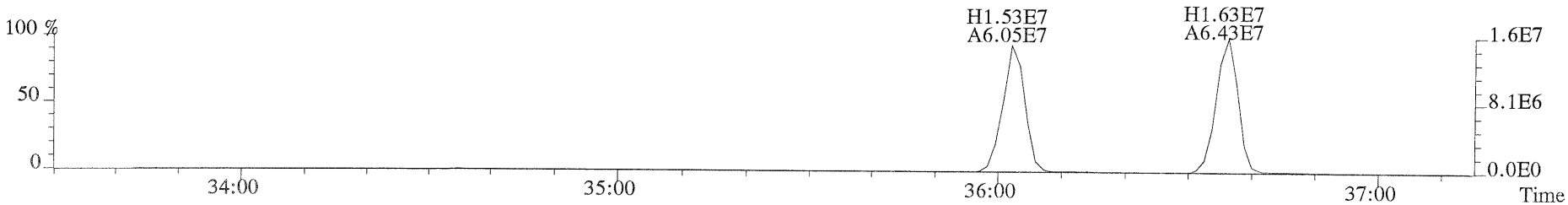
File:28SEP16Y #1-179 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



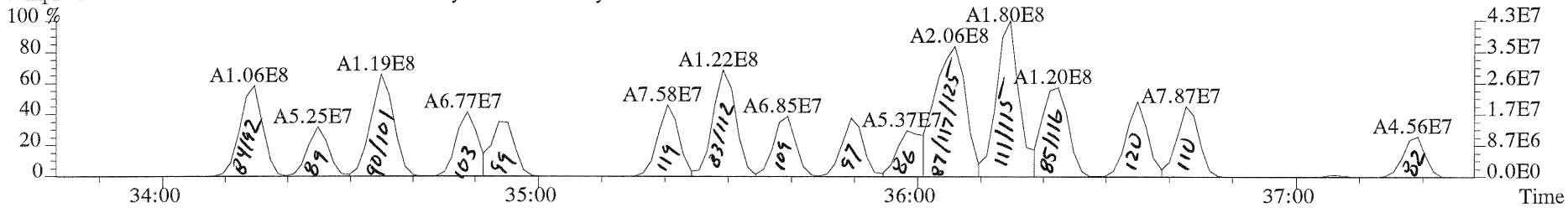
File:28SEP16Y #1-179 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



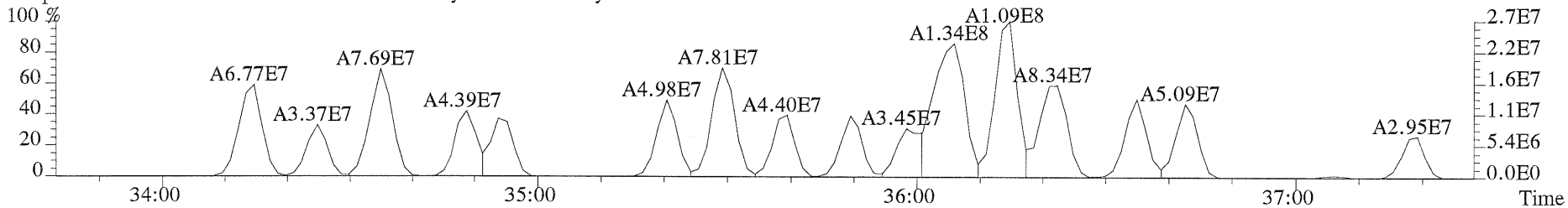
File:28SEP16Y #1-179 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



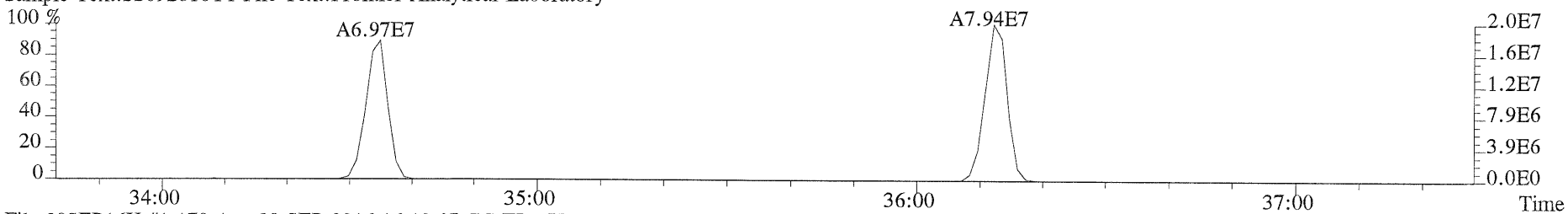
File:28SEP16Y #1-179 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



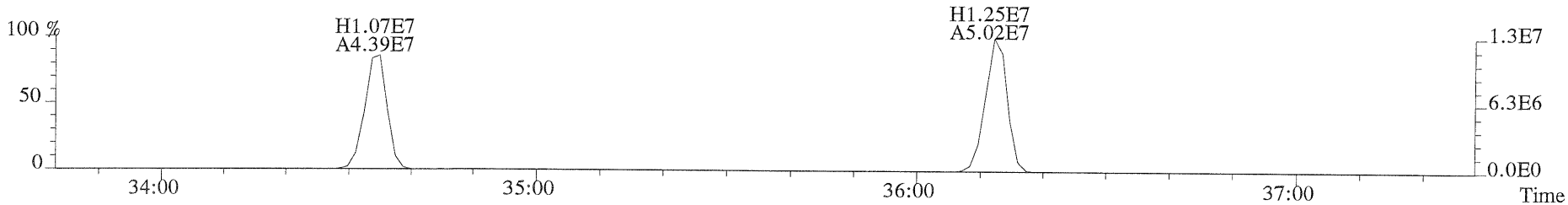
File:28SEP16Y #1-179 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



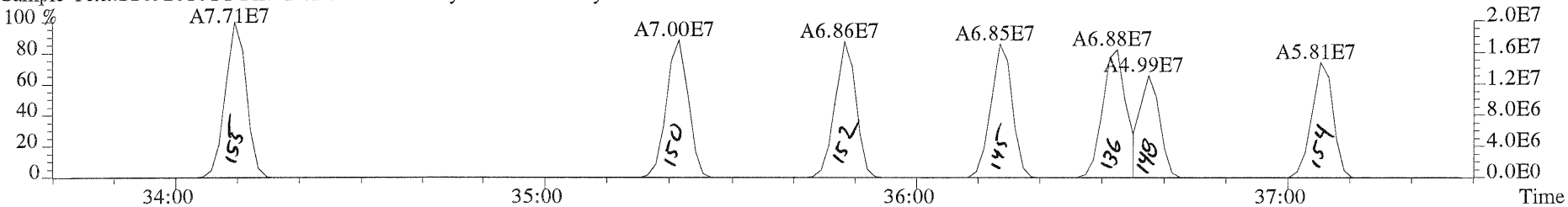
File:28SEP16Y #1-179 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



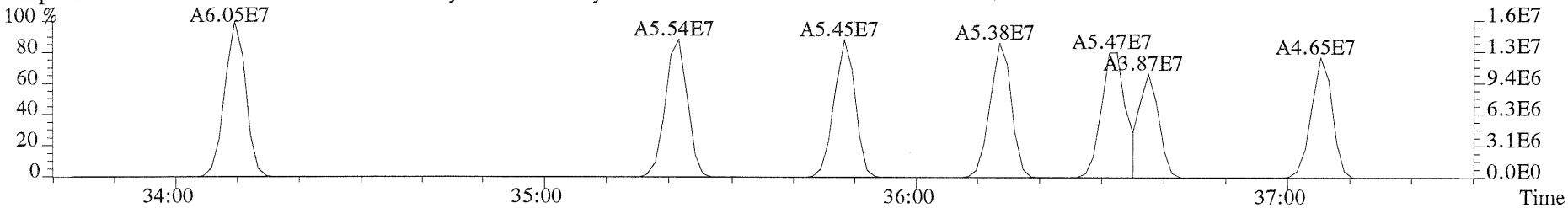
File:28SEP16Y #1-179 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



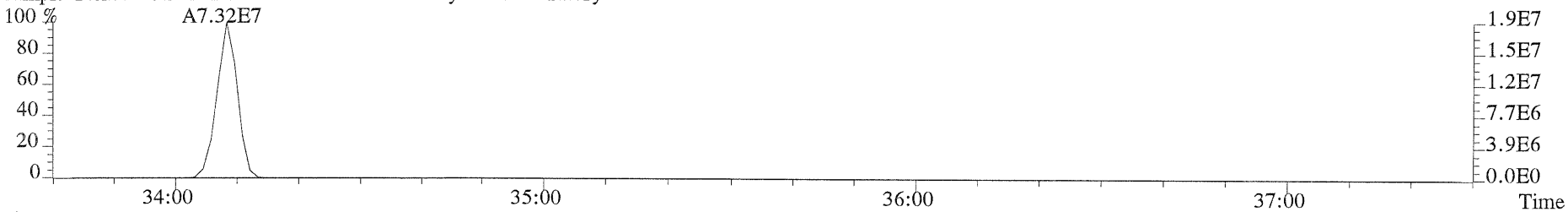
File:28SEP16Y #1-179 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



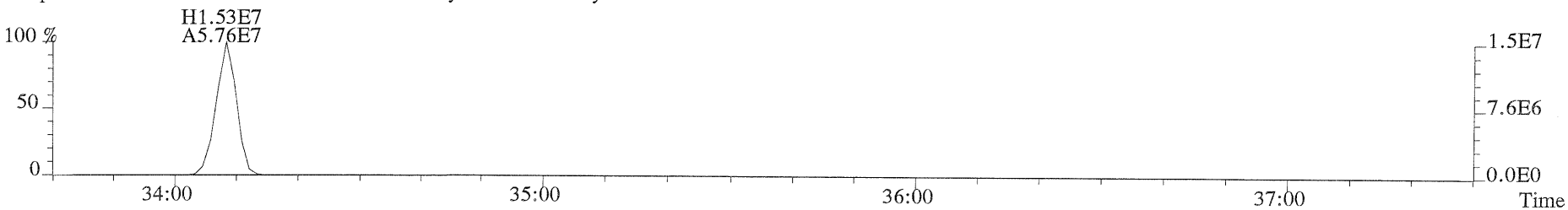
File:28SEP16Y #1-179 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



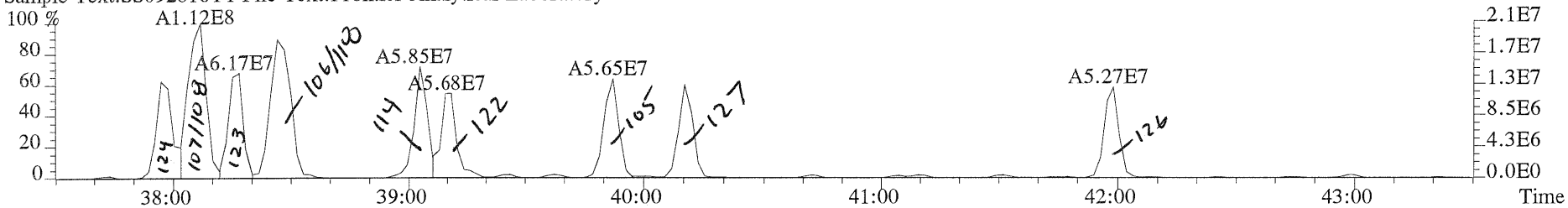
File:28SEP16Y #1-179 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



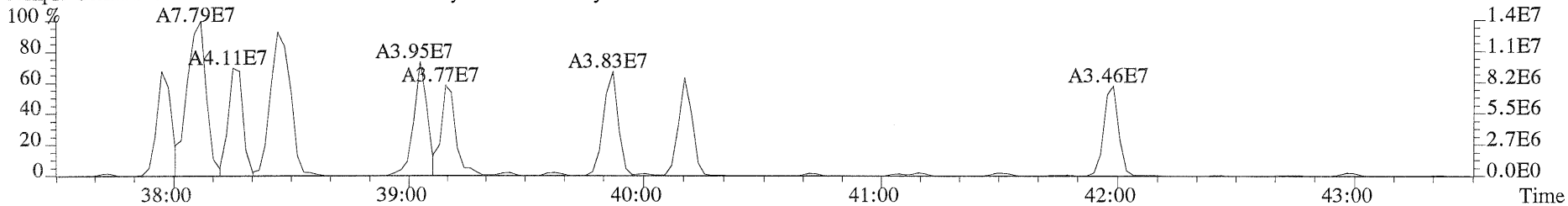
File:28SEP16Y #1-179 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



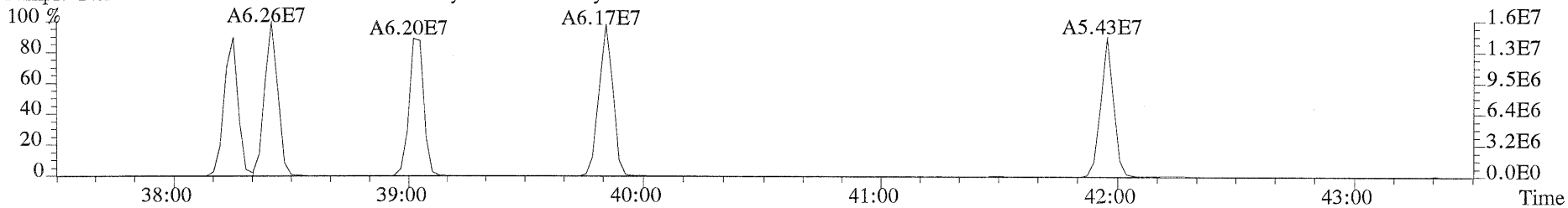
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



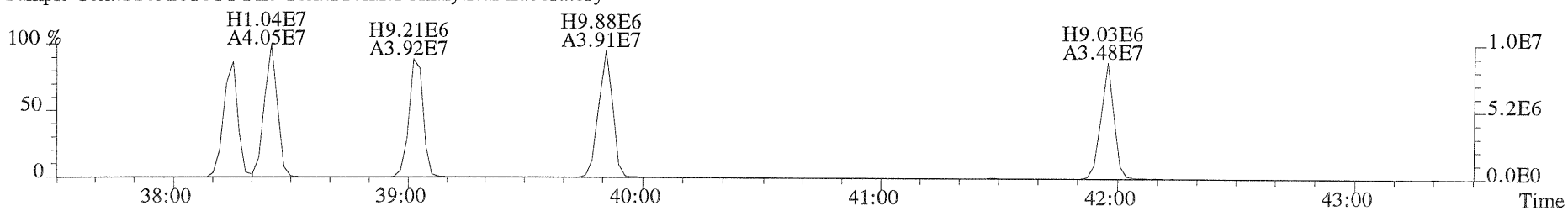
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



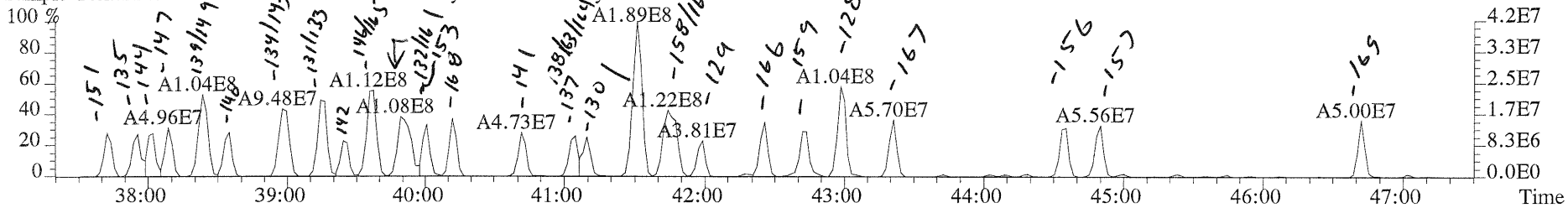
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



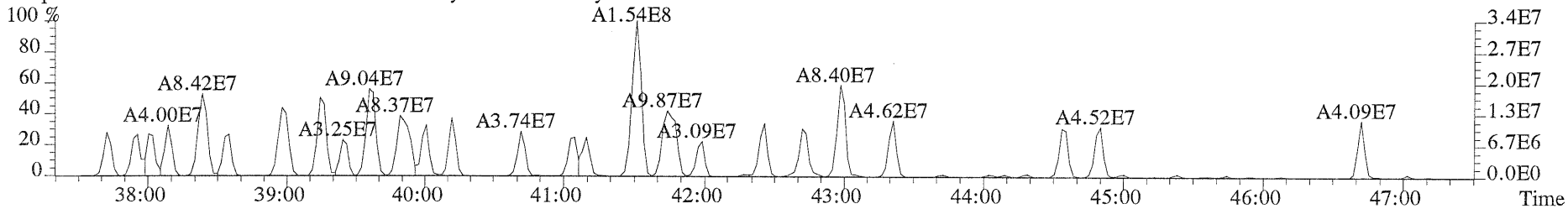
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



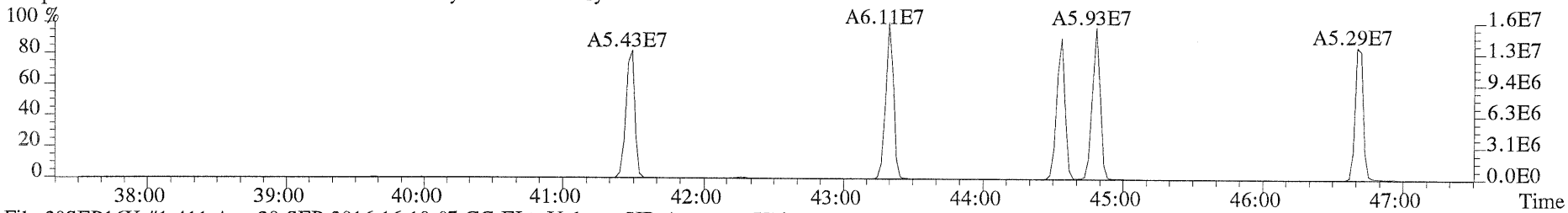
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



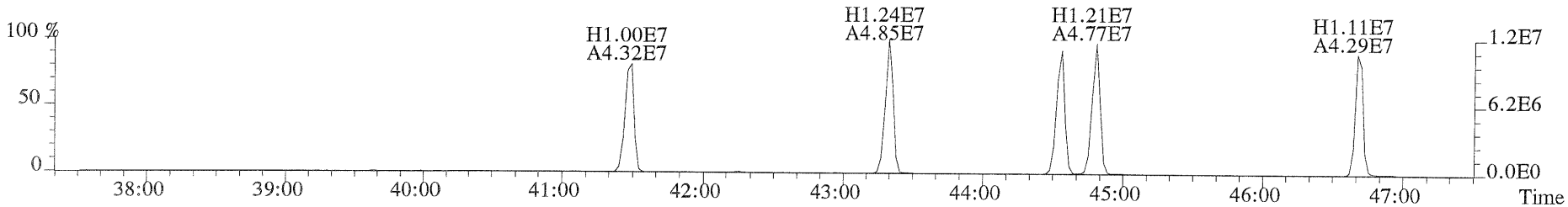
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



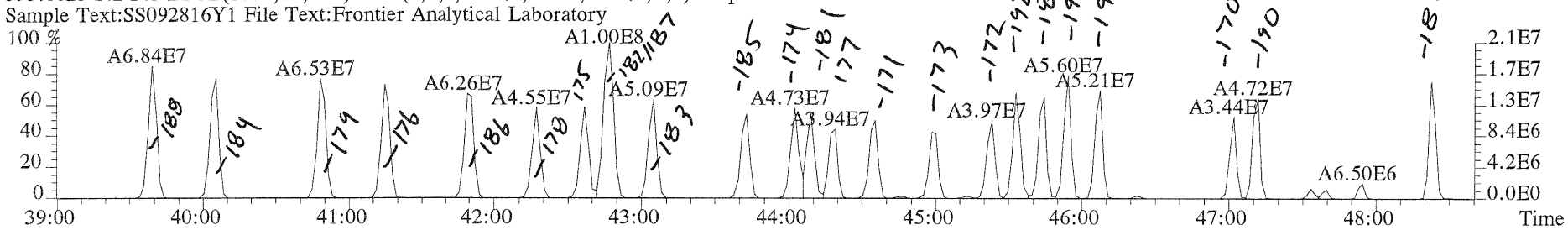
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



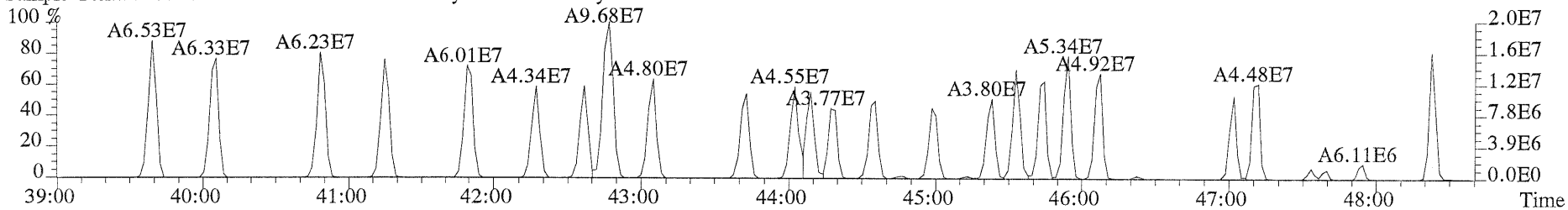
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



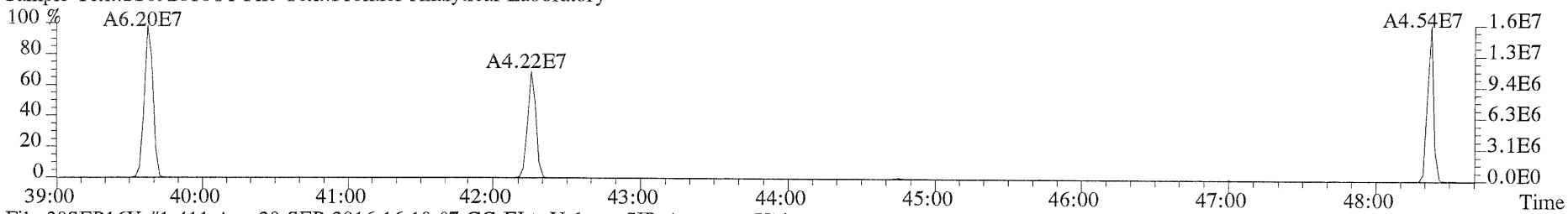
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



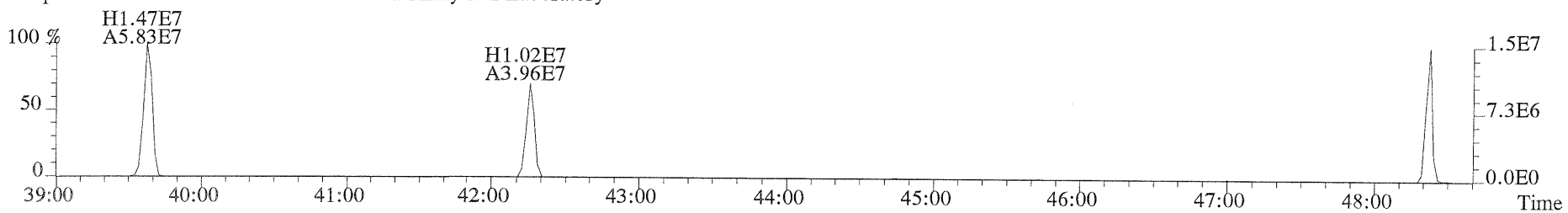
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



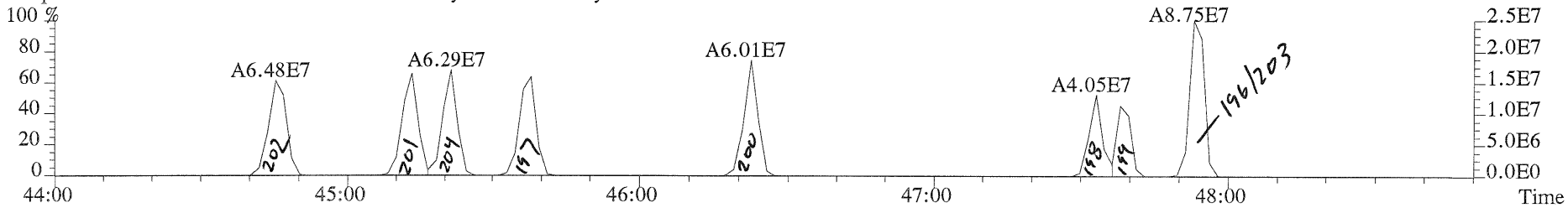
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



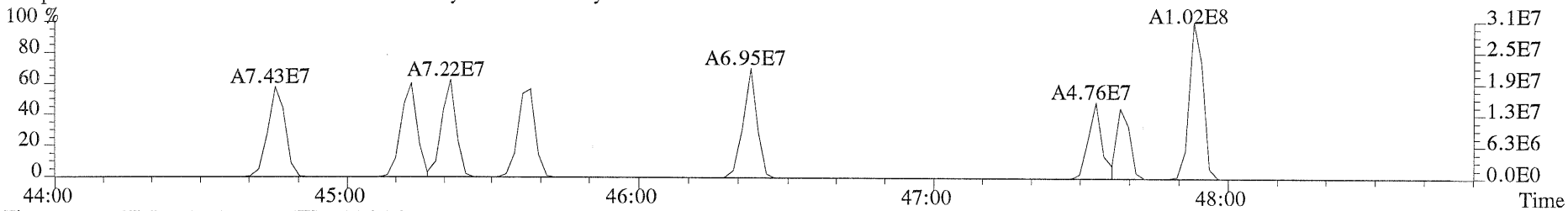
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



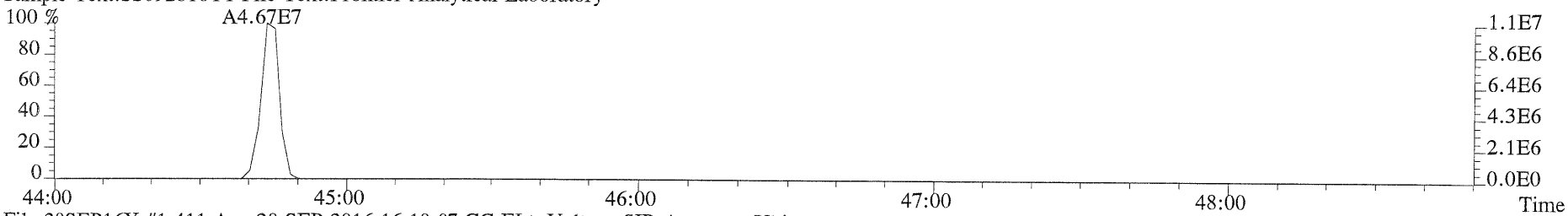
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



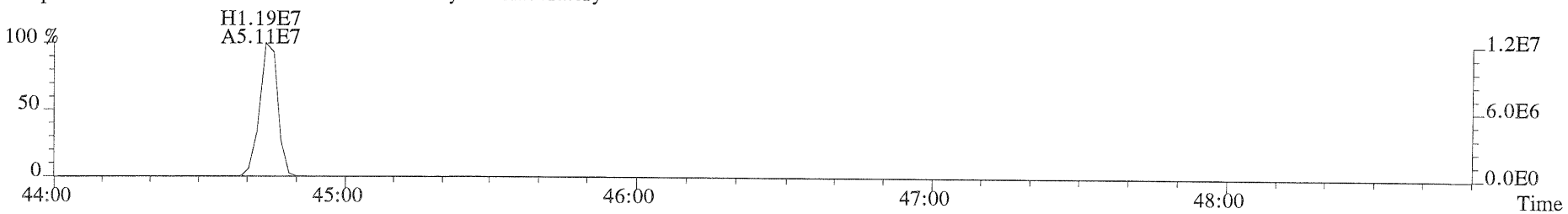
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



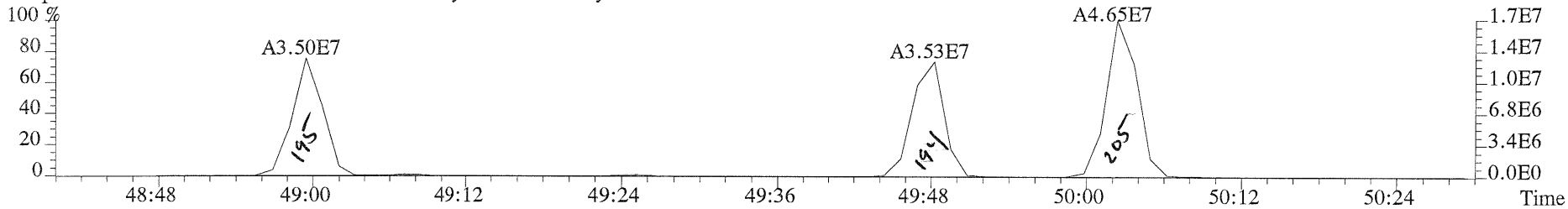
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



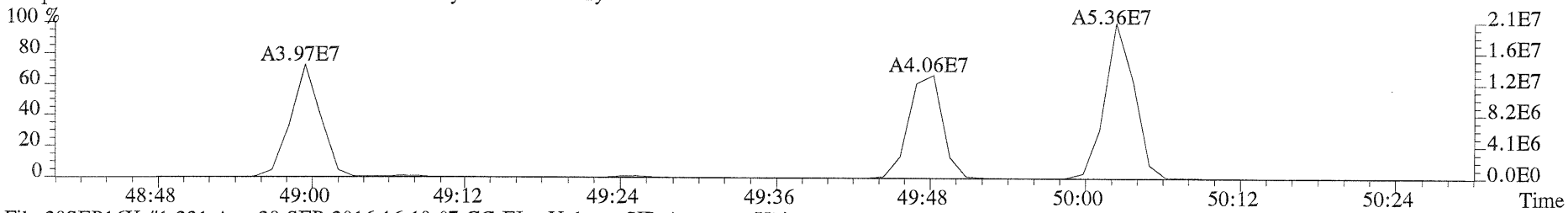
File:28SEP16Y #1-411 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



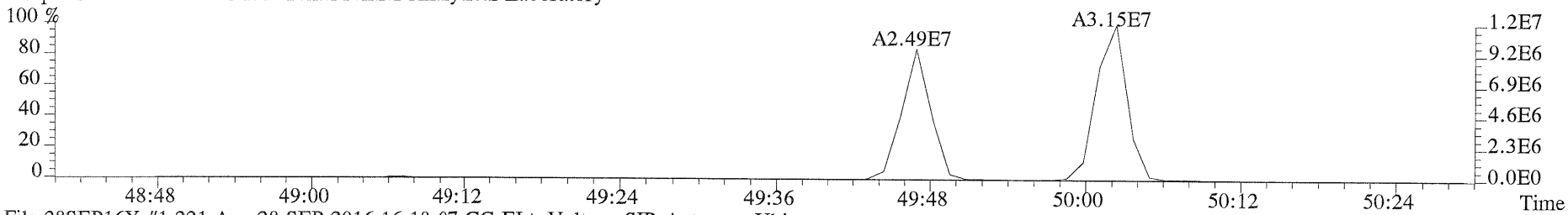
File:28SEP16Y #1-221 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



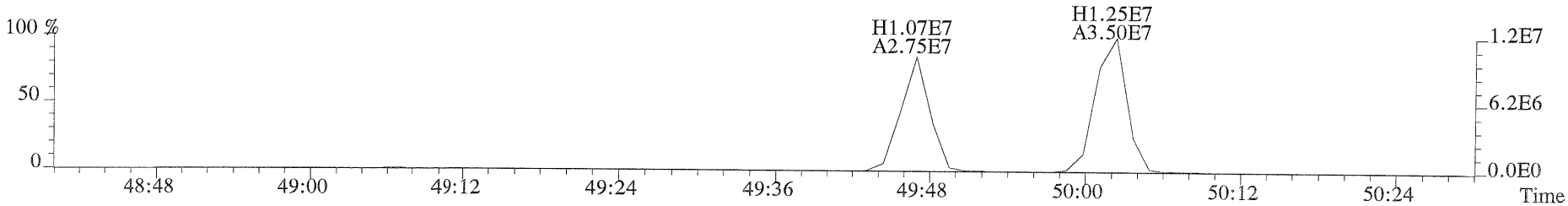
File:28SEP16Y #1-221 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



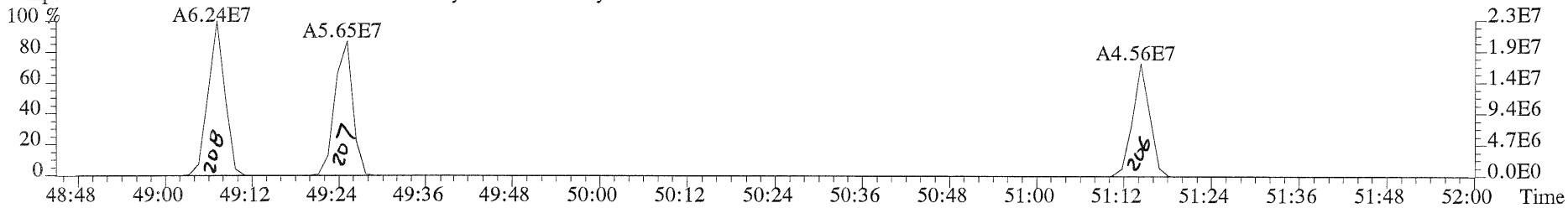
File:28SEP16Y #1-221 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



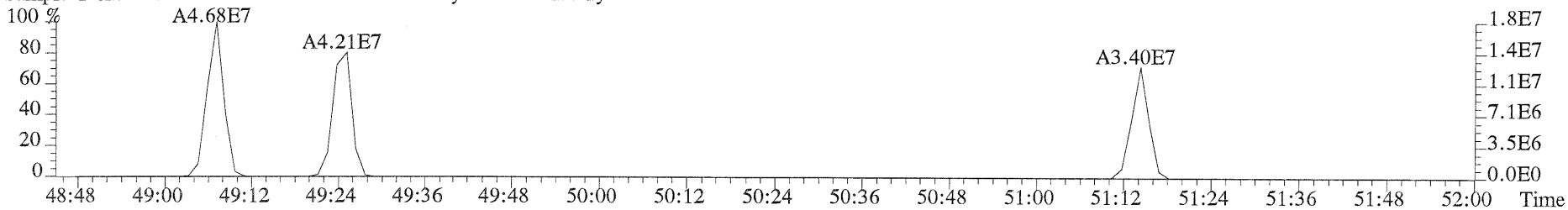
File:28SEP16Y #1-221 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



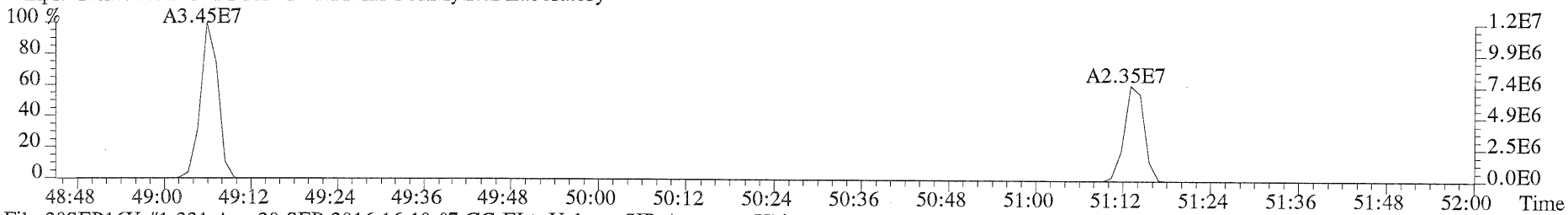
File:28SEP16Y #1-221 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



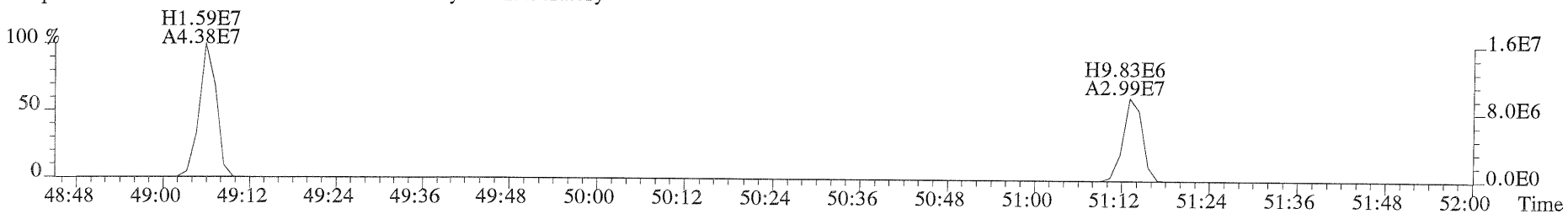
File:28SEP16Y #1-221 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



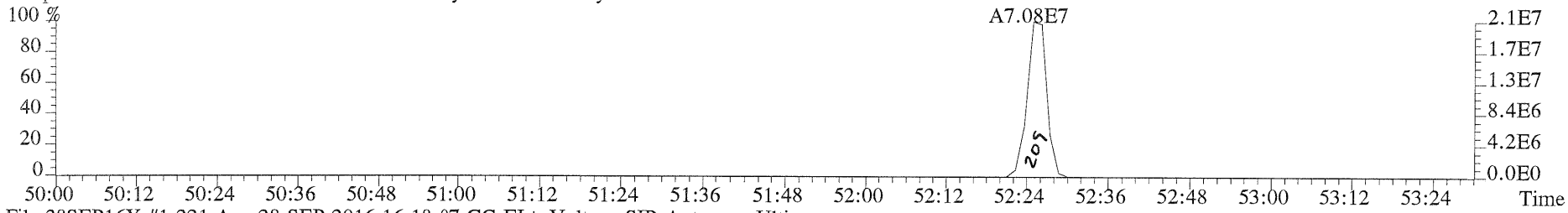
File:28SEP16Y #1-221 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



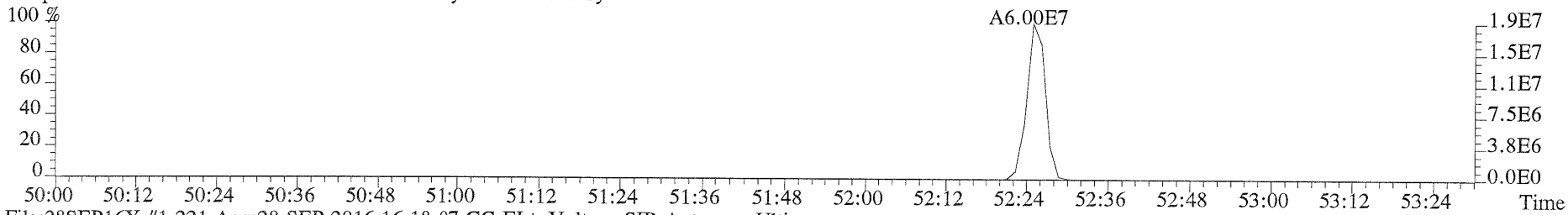
File:28SEP16Y #1-221 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



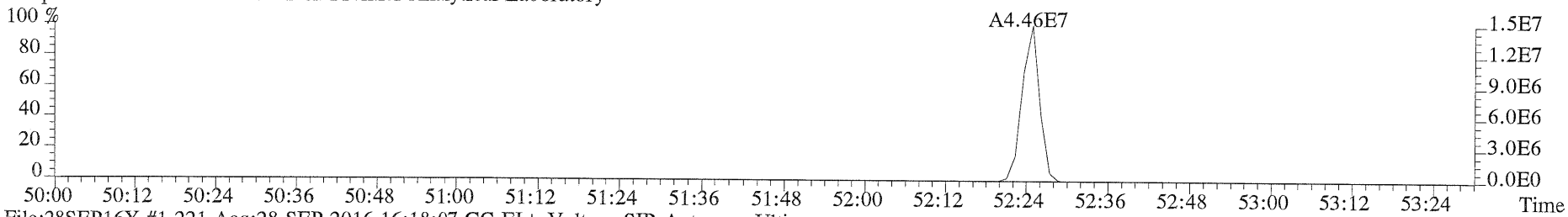
File:28SEP16Y #1-221 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



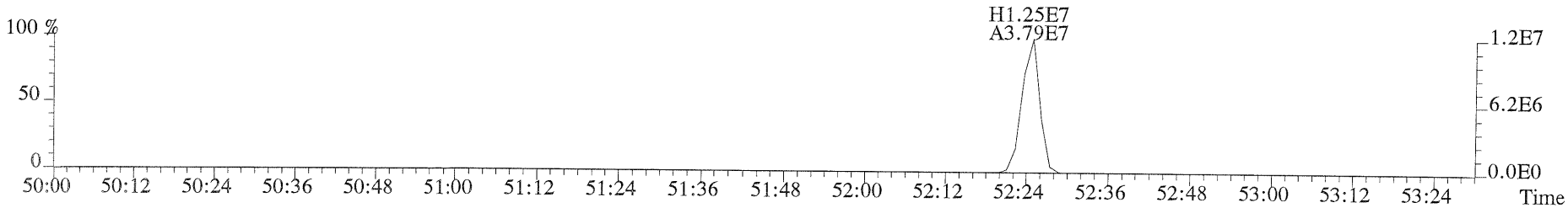
File:28SEP16Y #1-221 Acq:28-SEP-2016 16:18:07 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS092816Y1 File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 16:18:07 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:SS092816Y1 File Text:Frontier Analytical Laboratory



File:28SEP16Y #1-221 Acq:28-SEP-2016 16:18:07 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:SS092816Y1 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: 28SEP16Y Sam:15 Analysis Date: 29-SEP-16 04:32:21

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.15	2.66-3.60	y	50.5	37.5 - 62.5
PCB-3	M/M+2	3.14	2.66-3.60	y	52.0	37.5 - 62.5
PCB-4	M/M+2	1.47	1.33-1.79	y	44.8	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	49.1	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	47.2	37.5 - 62.5
PCB-37	M/M+2	1.01	0.88-1.20	y	48.7	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	51.0	37.5 - 62.5
PCB-77	M/M+2	0.74	0.65-0.89	y	47.5	37.5 - 62.5
PCB-81	M/M+2	0.74	0.65-0.89	y	47.5	37.5 - 62.5
PCB-104	M+2/M+4	1.58	1.32-1.78	y	50.6	37.5 - 62.5
PCB-105	M+2/M+4	1.51	1.32-1.78	y	44.9	37.5 - 62.5
PCB-114	M+2/M+4	1.49	1.32-1.78	y	46.3	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	44.1	37.5 - 62.5
PCB-123	M+2/M+4	1.51	1.32-1.78	y	45.1	37.5 - 62.5
PCB-126	M+2/M+4	1.51	1.32-1.78	y	45.4	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	48.9	37.5 - 62.5
PCB-156	M+2/M+4	1.24	1.05-1.43	y	47.6	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	49.3	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	49.9	37.5 - 62.5
PCB-169	M+2/M+4	1.23	1.05-1.43	y	47.6	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	52.7	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	50.0	37.5 - 62.5
PCB-202	M+2/M+4	0.87	0.76-1.02	y	48.7	37.5 - 62.5
PCB-205	M+2/M+4	0.87	0.76-1.02	y	49.8	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	52.1	37.5 - 62.5
PCB-208	M+4/M+6	1.33	1.13-1.53	y	50.5	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	49.3	37.5 - 62.5

Analyst: [signature] Date: 9/30/16

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: 28SEP16Y Sam:15 Analysis Date: 29-SEP-16 04:32:21

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.16	2.66-3.60	y	97.8	50.0 - 145
13C-PCB-3	M/M+2	3.17	2.66-3.60	y	98.6	50.0 - 145
13C-PCB-4	M/M+2	1.54	1.33-1.79	y	93.0	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	103	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	95.2	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	88.4	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	96.6	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	106	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	100	50.0 - 145
13C-PCB-104	M+2/M+4	1.62	1.32-1.78	y	93.6	50.0 - 145
13C-PCB-105	M+2/M+4	1.58	1.32-1.78	y	99.8	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	97.8	50.0 - 145
13C-PCB-118	M+2/M+4	1.55	1.32-1.78	y	93.7	50.0 - 145
13C-PCB-123	M+2/M+4	1.55	1.32-1.78	y	98.7	50.0 - 145
13C-PCB-126	M+2/M+4	1.55	1.32-1.78	y	102	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	98.8	50.0 - 145
13C-PCB-156	M+2/M+4	1.25	1.05-1.43	y	103	50.0 - 145
13C-PCB-157	M+2/M+4	1.24	1.05-1.43	y	101	50.0 - 145
13C-PCB-167	M+2/M+4	1.24	1.05-1.43	y	103	50.0 - 145
13C-PCB-169	M+2/M+4	1.23	1.05-1.43	y	104	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	90.9	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	93.7	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	95.6	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	91.0	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	93.3	50.0 - 145
13C-PCB-208	M+2/M+4	0.79	0.65-0.89	y	103	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	93.5	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.06	0.88-1.20	y	88.8	65.0 - 135
13C-PCB-111	M+2/M+4	1.57	1.32-1.78	y	104	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	104	75.0 - 125

Analyst: [signature] Date: 9/30/16

FAL ID: ST092816Y2 Filename: 28SEP16Y Sam:15 Acquired: 29-SEP-16 04:32:21 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R160816B ConCal: ST092816Y1 EndCal: ST092816Y2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.05e+07	3.15 y	14:30	1.05	50.5		2.50	-	-	*	-
13C-PCB-1	1.14e+08	3.16 y	14:29	1.14	97.8		2.50				97.8
PCB-3	6.10e+07	3.14 y	16:56	1.05	52.0		2.50	-	-	*	-
13C-PCB-3	1.12e+08	3.17 y	16:55	1.11	98.6		2.50				98.6
PCB-4	3.28e+07	1.47 y	18:10	1.14	44.8		2.50	-	-	*	-
13C-PCB-4	6.44e+07	1.54 y	18:10	0.68	93.0		2.50				93.0
PCB-15	5.78e+07	1.56 y	23:41	1.09	49.1		2.50	-	-	*	-
13C-PCB-15	1.08e+08	1.59 y	23:40	1.02	103		2.50				103
PCB-19	3.29e+07	1.04 y	22:03	1.16	47.2		2.50	-	-	*	-
13C-PCB-19	6.00e+07	1.08 y	22:02	0.61	95.2		2.50				95.2
13C-PCB-9	1.03e+08	1.57 y	19:50	-	75.1		2.50				
PCB-37	4.16e+07	1.01 y	30:20	1.14	48.7		2.50	-	-	*	-
13C-PCB-37	7.49e+07	1.09 y	30:19	1.38	88.4		2.50				88.4
PCB-54	3.99e+07	0.78 y	25:35	1.05	51.0		2.50	-	-	*	-
13C-PCB-54	7.45e+07	0.80 y	25:34	1.25	96.6		2.50				96.6
PCB-104	3.03e+07	1.58 y	30:02	1.14	50.6		2.50	-	-	*	-
13C-PCB-104	5.24e+07	1.62 y	30:01	0.91	93.6		2.50				93.6
13C-PCB-28	8.11e+07	1.06 y	26:39	1.48	88.8		2.50				88.8
13C-PCB-52	6.16e+07	0.79 y	28:55	-	73.9		2.50				
PCB-81	3.81e+07	0.74 y	36:05	1.14	47.5		2.50	-	-	*	-
13C-PCB-81	7.00e+07	0.81 y	36:03	1.27	100		2.50				100
PCB-77	3.87e+07	0.74 y	36:39	1.10	47.5		2.50	-	-	*	-
13C-PCB-77	7.40e+07	0.80 y	36:38	1.27	106		2.50				106
PCB-155	3.20e+07	1.27 y	34:11	1.11	48.9		2.50	-	-	*	-
13C-PCB-155	5.89e+07	1.28 y	34:10	1.09	98.8		2.50				98.8
13C-PCB-111	7.12e+07	1.57 y	36:14	1.25	104		2.50				104
13C-PCB-101	5.49e+07	1.58 y	34:36	-	75.2		2.50				
PCB-123	3.00e+07	1.51 y	38:17	1.05	45.1		2.50	-	-	*	-
13C-PCB-123	6.31e+07	1.55 y	38:15	1.20	98.7		2.50				98.7
PCB-118	3.07e+07	1.54 y	38:27	1.07	44.1		2.50	-	-	*	-
13C-PCB-118	6.53e+07	1.55 y	38:27	1.31	93.7		2.50				93.7
PCB-114	3.22e+07	1.49 y	39:05	1.08	46.3		2.50	-	-	*	-
13C-PCB-114	6.41e+07	1.59 y	39:03	1.23	97.8		2.50				97.8
PCB-105	3.19e+07	1.51 y	39:54	1.08	44.9		2.50	-	-	*	-
13C-PCB-105	6.58e+07	1.58 y	39:52	1.24	99.8		2.50				99.8
PCB-126	3.08e+07	1.51 y	42:01	1.07	45.4		2.50	-	-	*	-
13C-PCB-126	6.36e+07	1.55 y	41:59	1.17	102		2.50				102
PCB-167	3.32e+07	1.24 y	43:23	0.98	49.9		2.50	-	-	*	-
13C-PCB-167	6.80e+07	1.24 y	43:21	1.24	103		2.50				103
PCB-156	3.11e+07	1.24 y	44:35	1.01	47.6		2.50	-	-	*	-
13C-PCB-156	6.46e+07	1.25 y	44:35	1.18	103		2.50				103
PCB-157	3.12e+07	1.24 y	44:52	0.96	49.3		2.50	-	-	*	-
13C-PCB-157	6.59e+07	1.24 y	44:50	1.22	101		2.50				101
PCB-169	2.92e+07	1.23 y	46:44	1.00	47.6		2.50	-	-	*	-
13C-PCB-169	6.15e+07	1.23 y	46:42	1.11	104		2.50				104
PCB-188	3.41e+07	1.06 y	39:41	1.09	52.7		2.50	-	-	*	-
13C-PCB-188	5.91e+07	1.07 y	39:39	1.22	90.9		2.50				90.9
PCB-189	2.75e+07	1.05 y	48:24	1.14	50.0		2.50	-	-	*	-
13C-PCB-189	4.83e+07	1.07 y	48:23	0.97	93.7		2.50				93.7
PCB-202	2.29e+07	0.87 y	44:47	1.05	48.7		2.50	-	-	*	-
13C-PCB-202	4.46e+07	0.91 y	44:45	0.88	95.6		2.50				95.6
13C-PCB-178	4.27e+07	1.06 y	42:17	0.77	104		2.50				104
13C-PCB-138	5.32e+07	1.25 y	41:29	-	76.2		2.50				

FAL ID: ST092816Y2 Filename: 28SEP16Y Sam:15 Acquired: 29-SEP-16 04:32:21 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R160816B ConCal: ST092816Y1 EndCal: ST092816Y2
Results: GC Column: DB1 Amount: 1.000

PCB-205	2.19e+07	0.87 y	50:04	1.02	49.8	2.50	-	-	*	-
13C-PCB-205	4.31e+07	0.90 y	50:04	1.38	91.0	2.50				91.0
PCB-208	2.18e+07	1.33 y	49:08	0.93	50.5	2.50	-	-	*	-
13C-PCB-208	4.63e+07	0.79 y	49:07	1.31	103	2.50				103
PCB-206	1.59e+07	1.37 y	51:16	0.94	52.1	2.50	-	-	*	-
13C-PCB-206	3.25e+07	0.79 y	51:14	1.01	93.3	2.50				93.3
PCB-209	2.33e+07	1.19 y	52:28	1.10	49.3	2.50	-	-	*	-
13C-PCB-209	4.29e+07	1.19 y	52:26	1.34	93.5	2.50				93.5
13C-PCB-194	3.43e+07	0.91 y	49:48	-	68.2	2.50				

Analyst: _____ Date: 9/30/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:28SEP16Y Instrument: FAL4 GC: DB1 Experiment:1668PCB

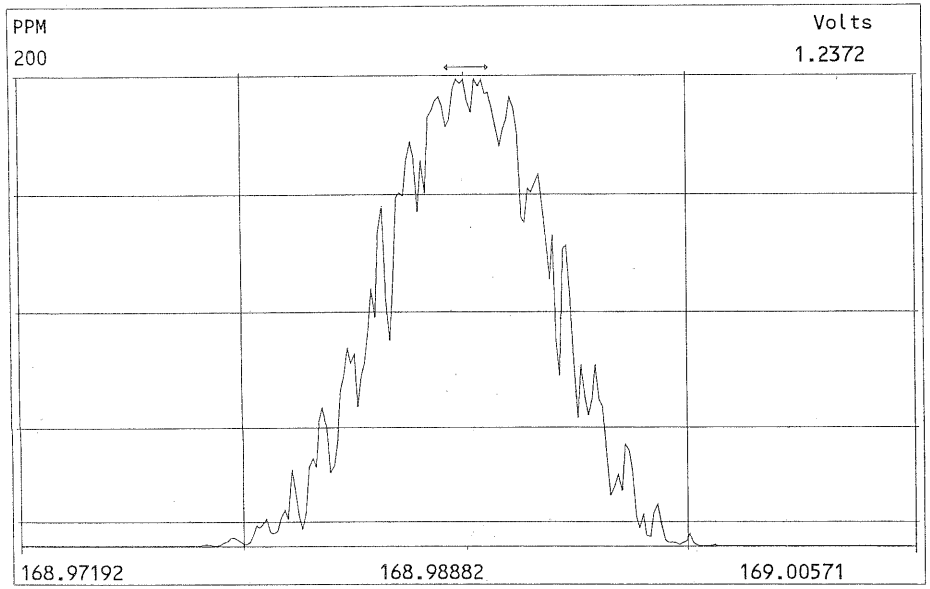
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
28SEP16Y	1	ST092816Y1	1668 CS3 R160816B	28-SEP-16 15:21:37	ST092816Y1	ST092816Y2	BS
28SEP16Y	2	SS092816Y1	Daily 209 160711B	28-SEP-16 16:18:07	ST092816Y1	ST092816Y2	BS
28SEP16Y	3	03855-001-0001-OPR	OPR	28-SEP-16 17:14:39	ST092816Y1	ST092816Y2	BS
28SEP16Y	4	03857-001-0001-OPR	OPR	28-SEP-16 18:11:10	ST092816Y1	ST092816Y2	BS
28SEP16Y	5	03857-001-0001-MB	Method Blank	28-SEP-16 19:07:40	ST092816Y1	ST092816Y2	BS
28SEP16Y	6	10143-002-0001-SA	AA47757, FEG(Final Effluent-	28-SEP-16 20:04:09	ST092816Y1	ST092816Y2	BS
28SEP16Y	7	10145-002-0001-SA	E1609006C	28-SEP-16 21:00:39	ST092816Y1	ST092816Y2	BS
28SEP16Y	8	10147-001-0001-SA	LDW-BA-SC-ENR+AC-CA-CORE	28-SEP-16 21:57:08	ST092816Y1	ST092816Y2	BS
28SEP16Y	9	10147-002-0001-SA	LDW-BA-SC-ENR+AC-CB-CORE	28-SEP-16 22:53:36	ST092816Y1	ST092816Y2	BS
28SEP16Y	10	10147-003-0001-SA	LDW-BA-SC-ENR+AC-CC-CORE	28-SEP-16 23:50:04	ST092816Y1	ST092816Y2	BS
28SEP16Y	11	10147-006-0001-SA	LDW-BA-SC-ENR-CA-CORE	29-SEP-16 00:46:31	ST092816Y1	ST092816Y2	BS
28SEP16Y	12	10147-007-0001-SA	LDW-BA-SC-ENR-CB-CORE	29-SEP-16 01:42:58	ST092816Y1	ST092816Y2	BS
28SEP16Y	13	10147-008-0001-SA	LDW-BA-SC-ENR-CC-CORE	29-SEP-16 02:39:25	ST092816Y1	ST092816Y2	BS
28SEP16Y	14	SB092816Y1	Solvent Blank	29-SEP-16 03:35:53	ST092816Y1	ST092816Y2	BS
28SEP16Y	15	ST092816Y2	1668 CS3 R160816B	29-SEP-16 04:32:21	ST092816Y1	ST092816Y2	BS
28SEP16Y	16	SB092816Y2	Solvent Blank	29-SEP-16 05:28:51	ST092816Y2	ST092816Y3	BS
28SEP16Y	17	10147-011-0001-SA	LDW-BA-IN-ENR+AC-CA-CORE	29-SEP-16 06:25:19	ST092816Y2	ST092816Y3	BS
28SEP16Y	18	10147-012-0001-SA	LDW-BA-IN-ENR+AC-CB-CORE	29-SEP-16 07:21:46	ST092816Y2	ST092816Y3	BS
28SEP16Y	19	10147-013-0001-SA	LDW-BA-IN-ENR+AC-CC-CORE	29-SEP-16 08:18:15	ST092816Y2	ST092816Y3	BS
28SEP16Y	20	10147-015-0001-SA	LDW-BA-IN-ENR-CA-CORE	29-SEP-16 09:14:45	ST092816Y2	ST092816Y3	BS
28SEP16Y	21	10147-016-0001-SA	LDW-BA-IN-ENR-CB-CORE	29-SEP-16 10:11:13	ST092816Y2	ST092816Y3	BS
28SEP16Y	22	10147-017-0001-SA	LDW-BA-IN-ENR-CC-CORE	29-SEP-16 11:07:43	ST092816Y2	ST092816Y3	BS
28SEP16Y	23	ST092816Y3	1668 CS3 R160816B	29-SEP-16 12:04:13	ST092816Y2	ST092816Y3	BS

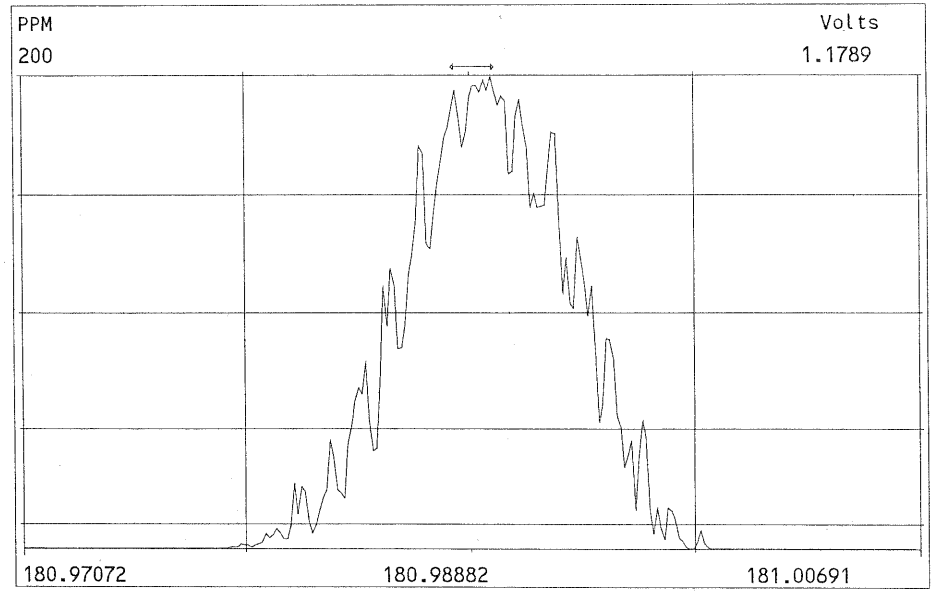
9/30/16

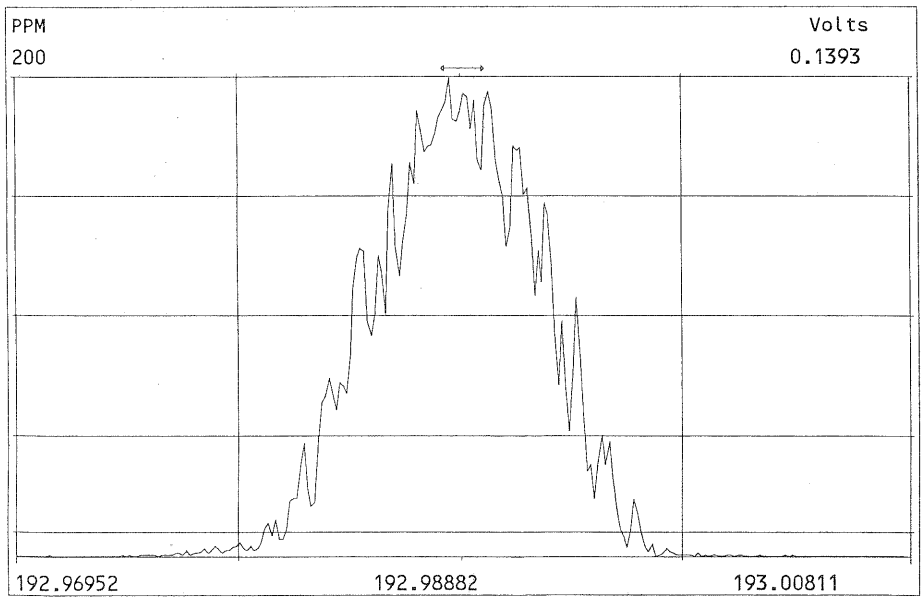
Data Backed Up:_____

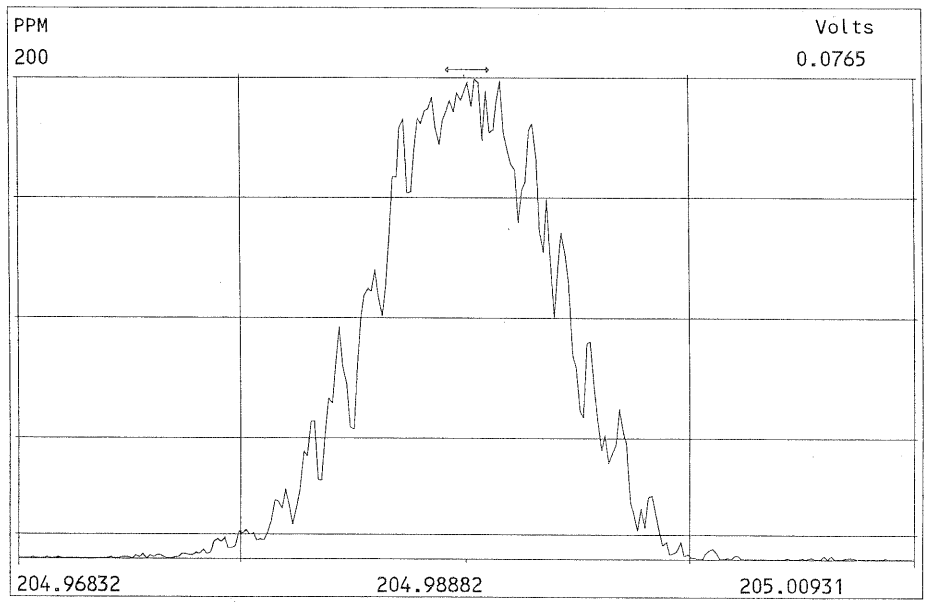
Date:_____

Peak Locate Examination:28-SEP-2016:15:18 File:28SEP16Y
Experiment:1668PCB Function:1 Reference:PFK

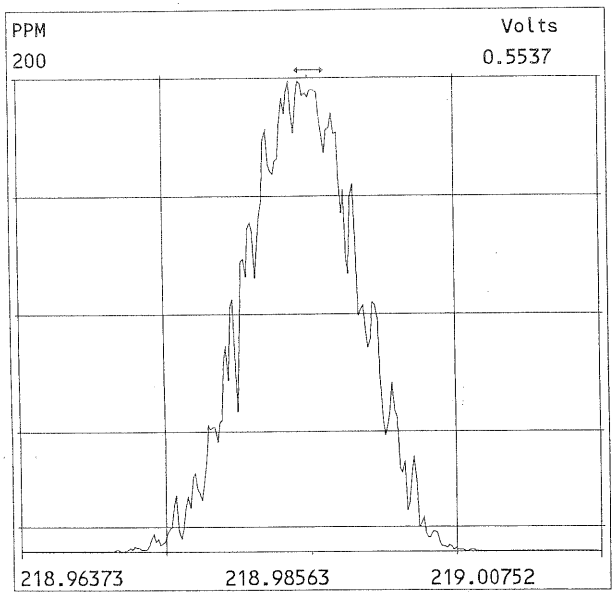


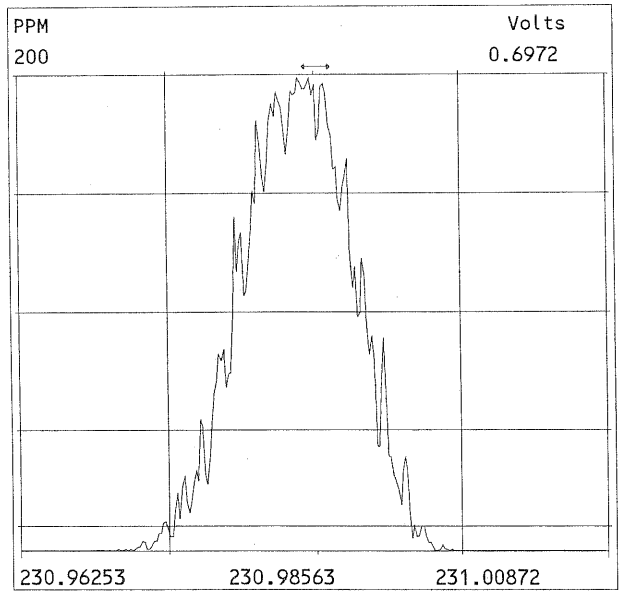


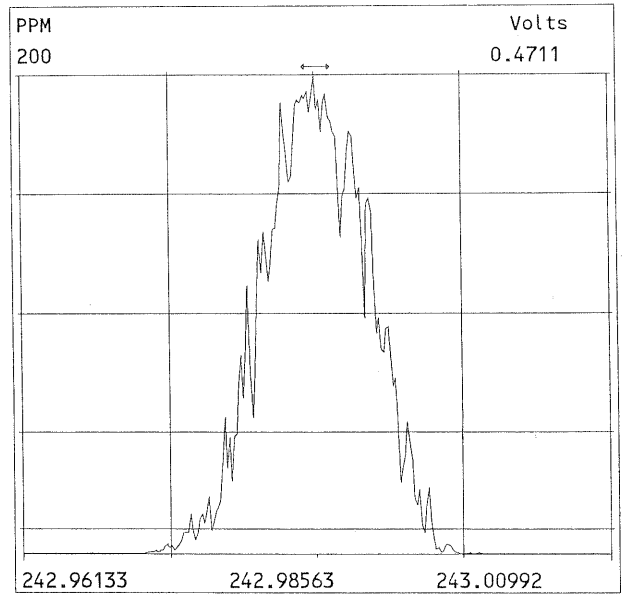


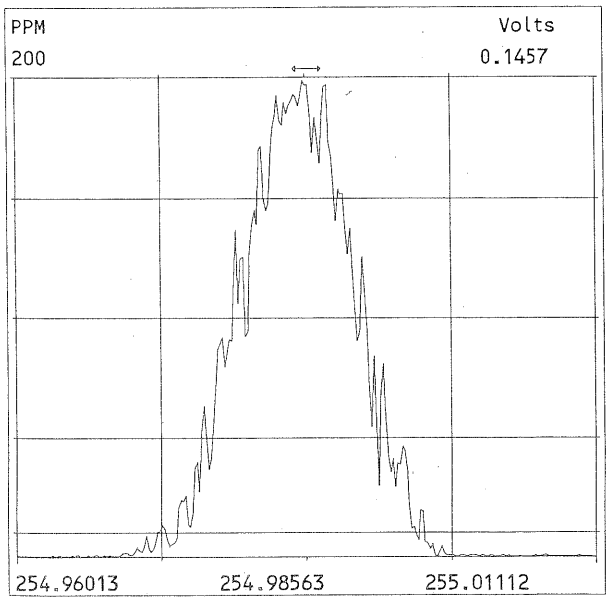


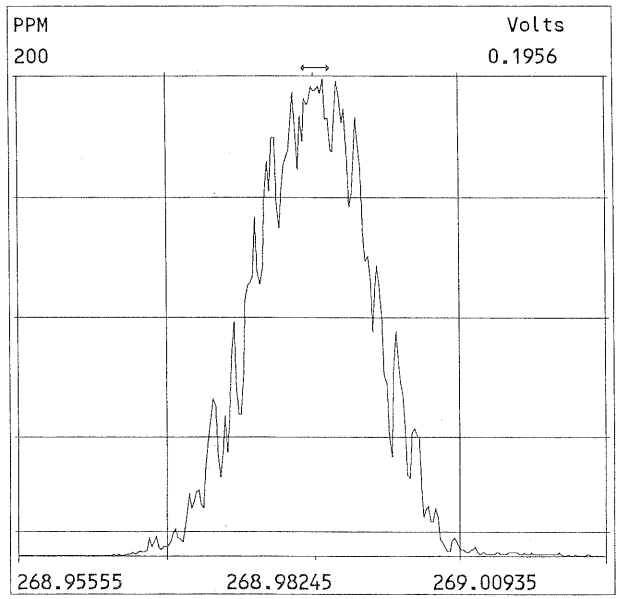
Peak Locate Examination:28-SEP-2016:15:19 File:28SEP16Y
Experiment:1668PCB Function:2 Reference:PFK

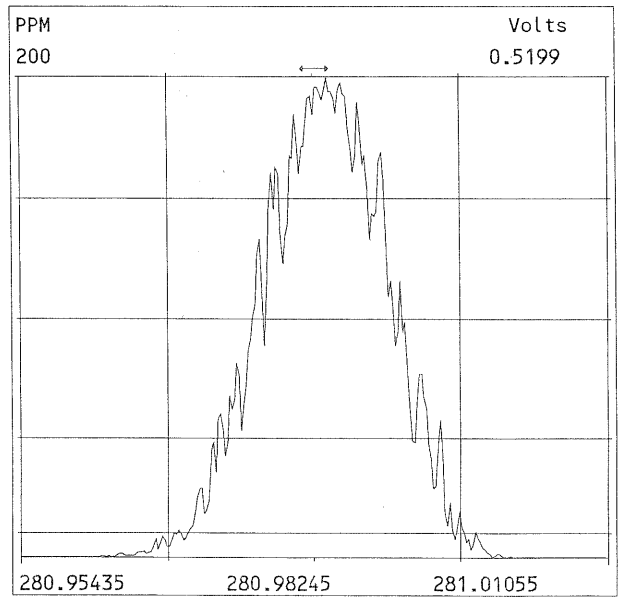












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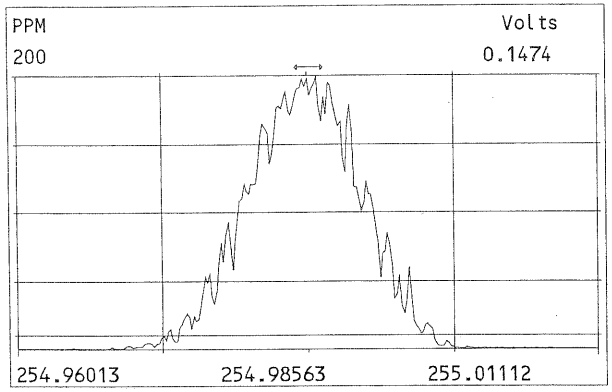
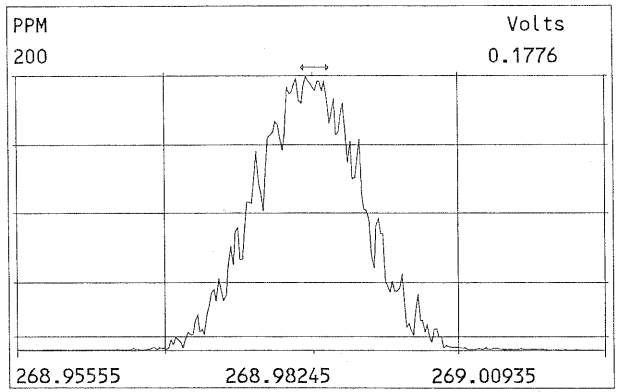
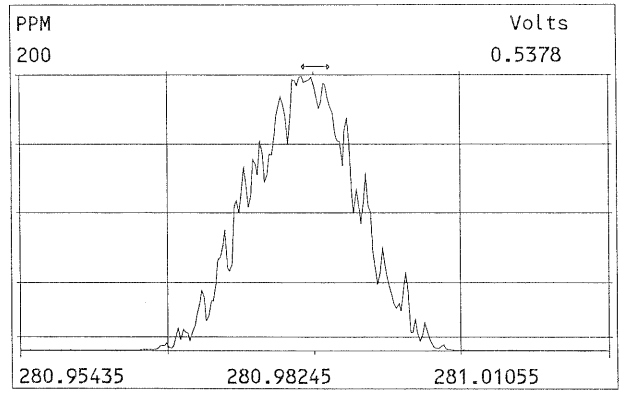
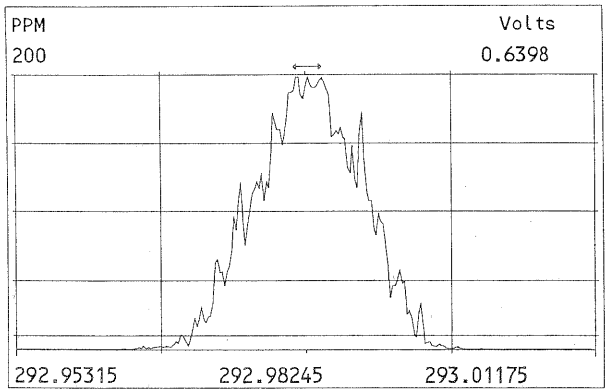
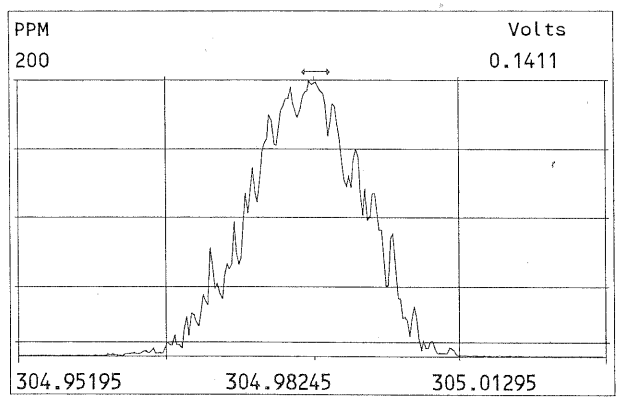
Experiment:1668PCB Function:3 Reference:PFK

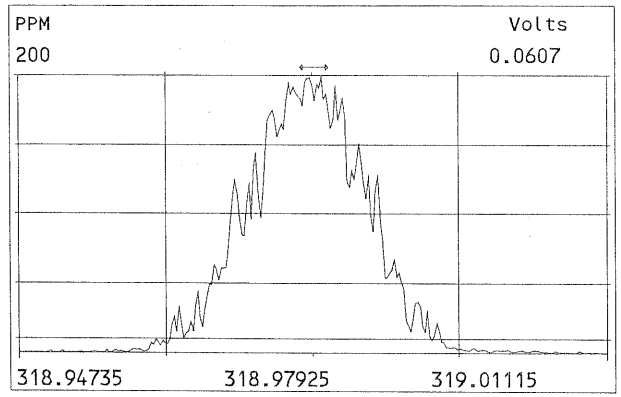


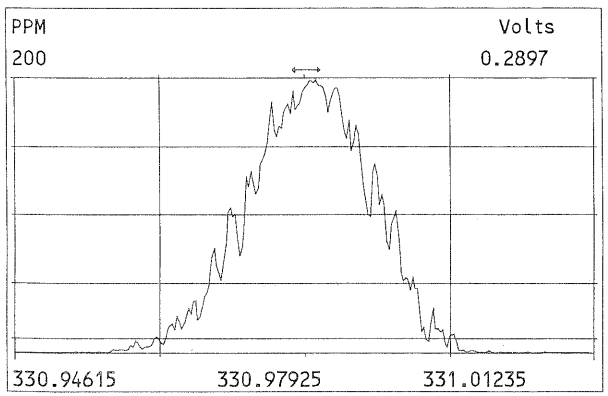


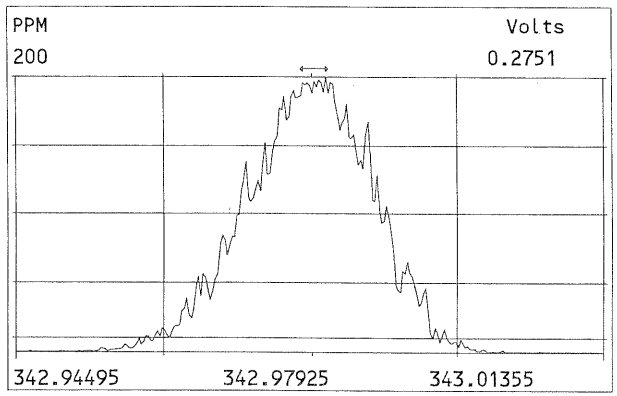




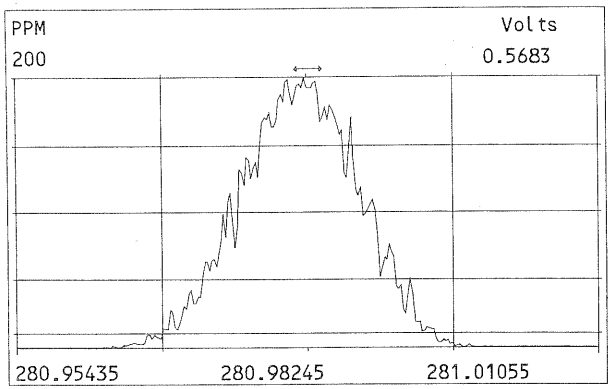


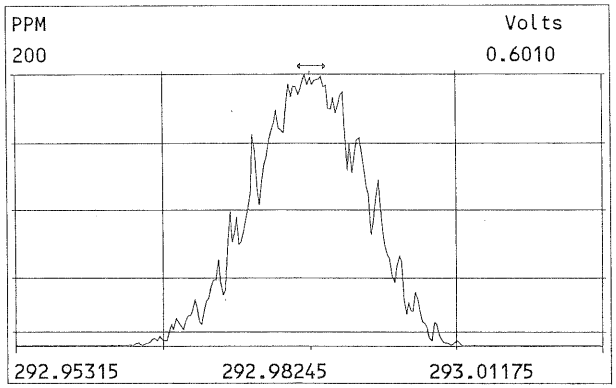


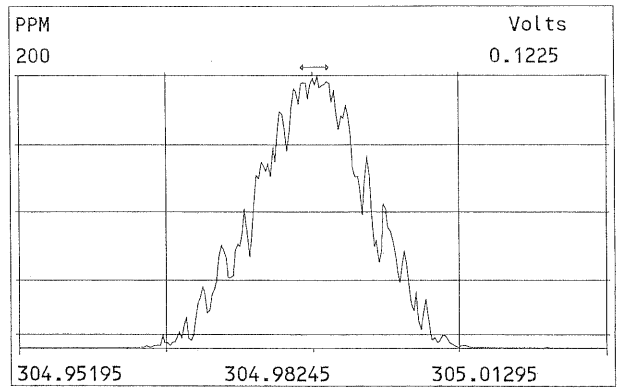


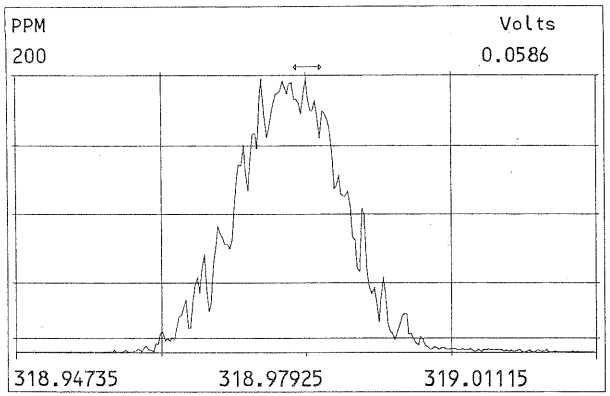


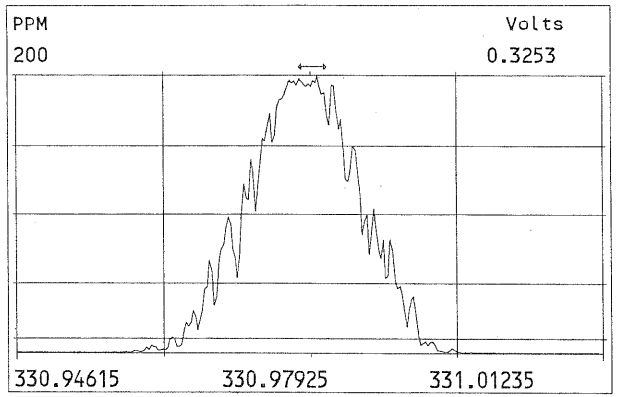
Peak Locate Examination:28-SEP-2016:15:20 File:28SEP16Y
Experiment:1668PCB Function:4 Reference:PFK

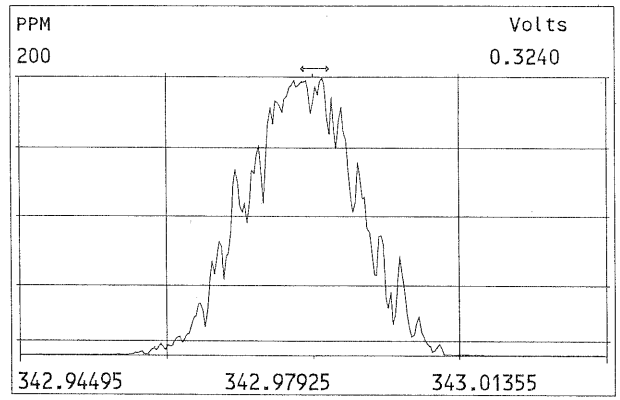


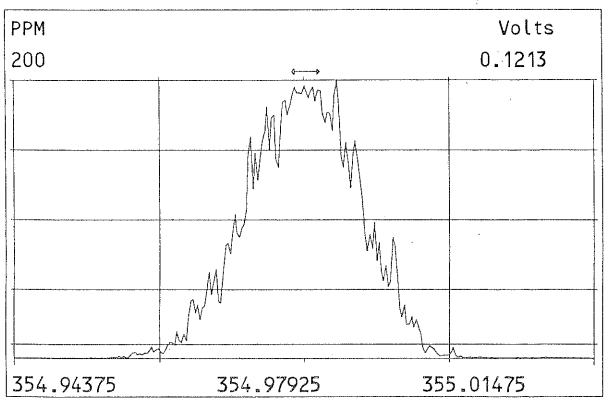


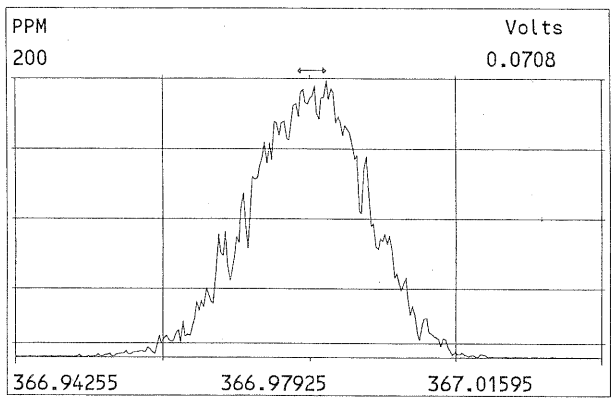


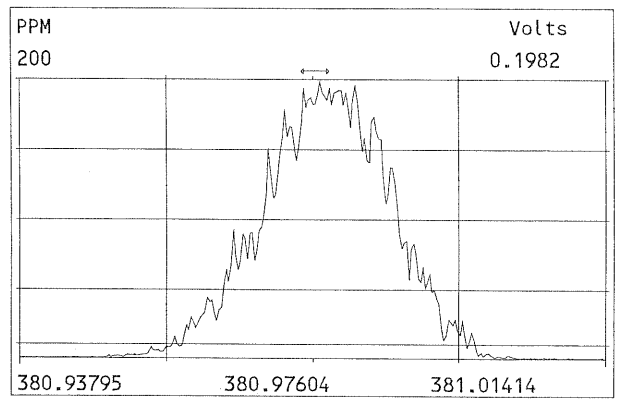




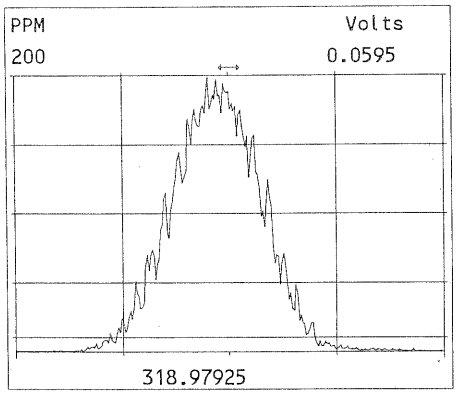


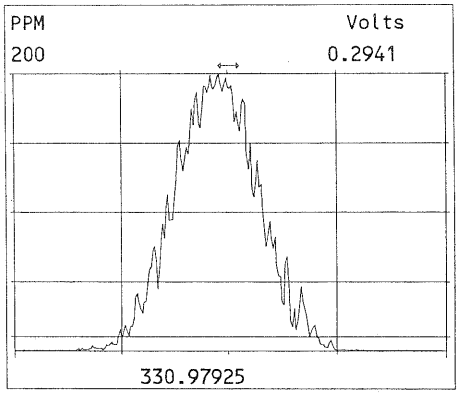


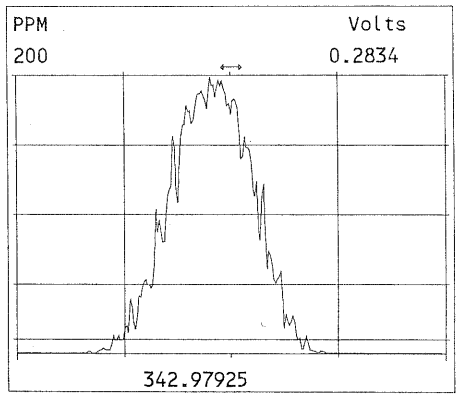


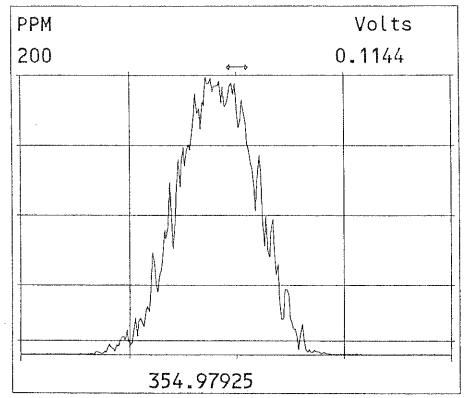


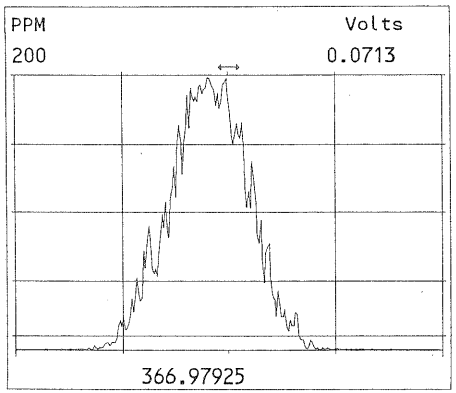
Peak Locate Examination:28-SEP-2016:15:20 File:28SEP16Y
Experiment:1668PCB Function:5 Reference:PFK

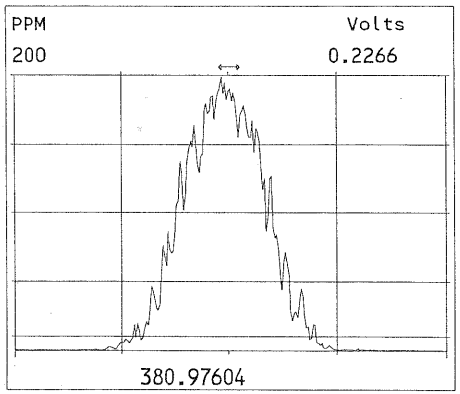


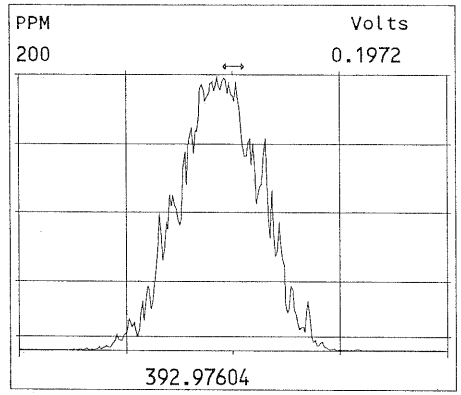


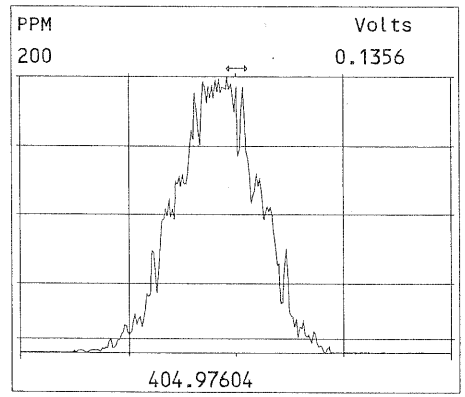


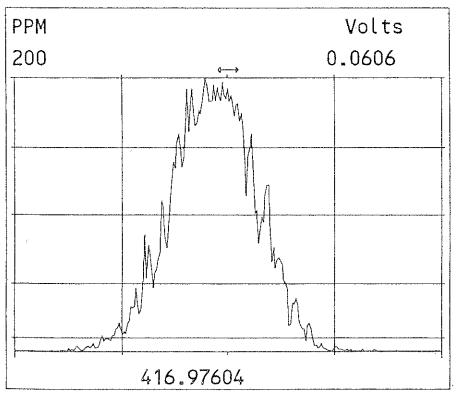


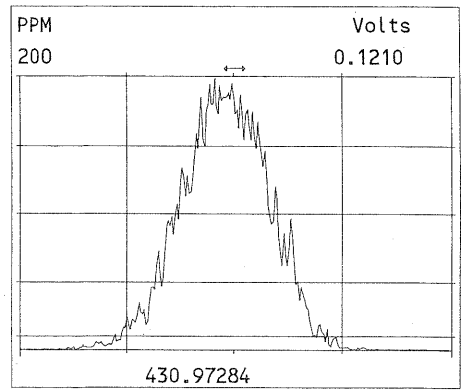


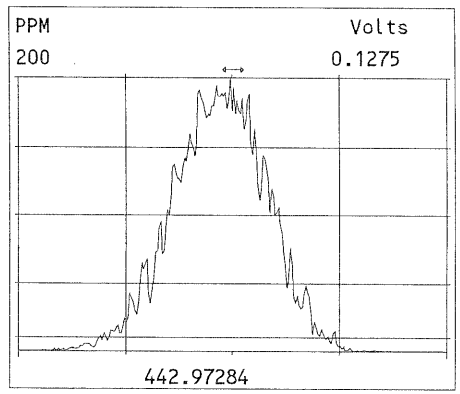




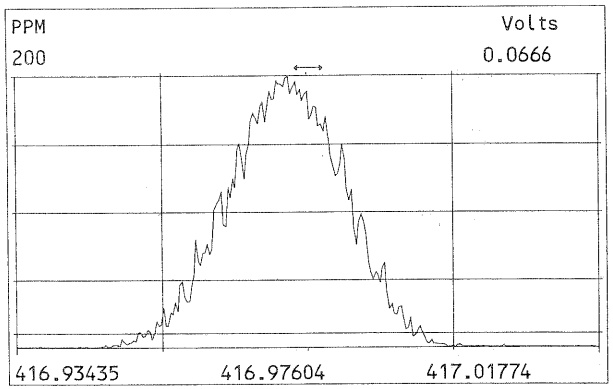


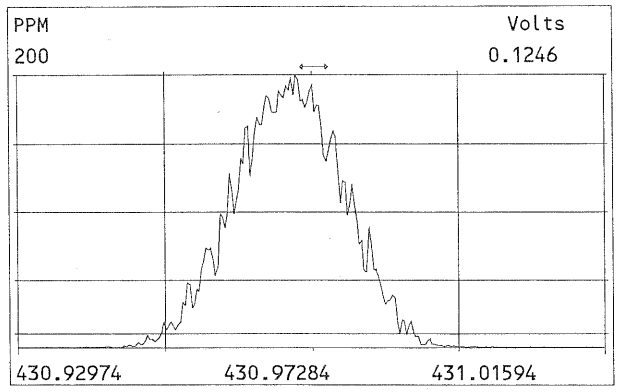


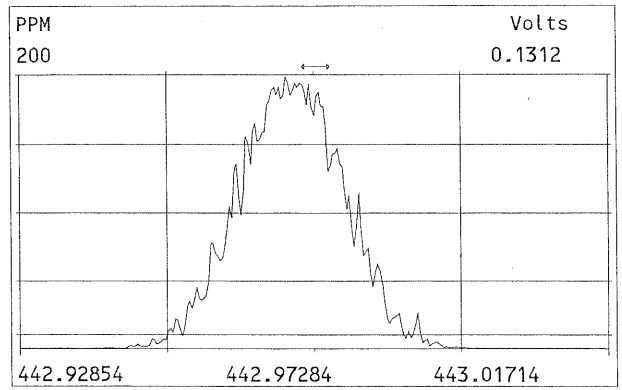


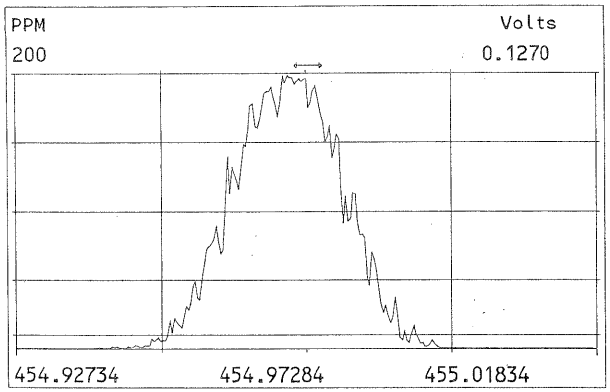


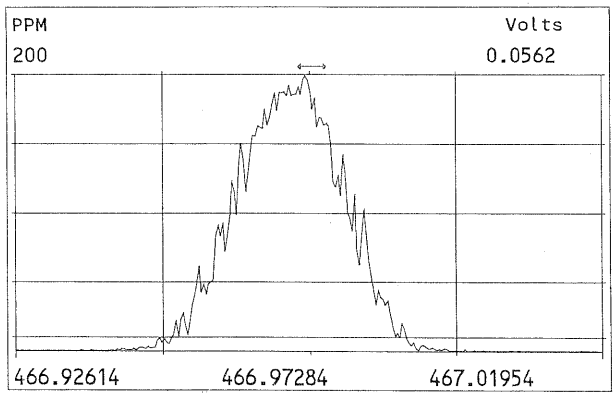
Peak Locate Examination:28-SEP-2016:15:21 File:28SEP16Y
Experiment:1668PCB Function:6 Reference:PFK

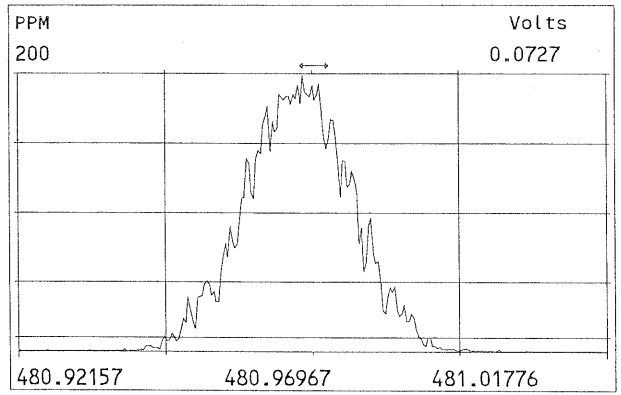


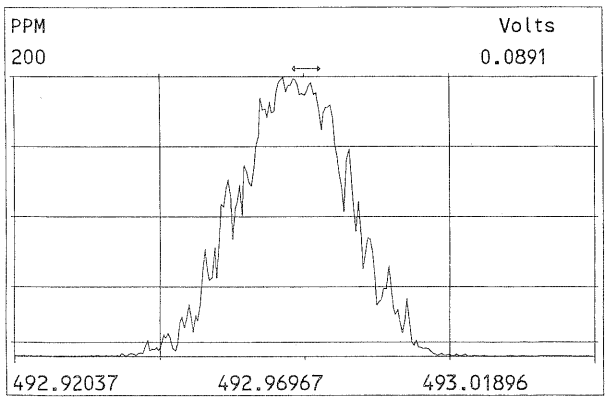


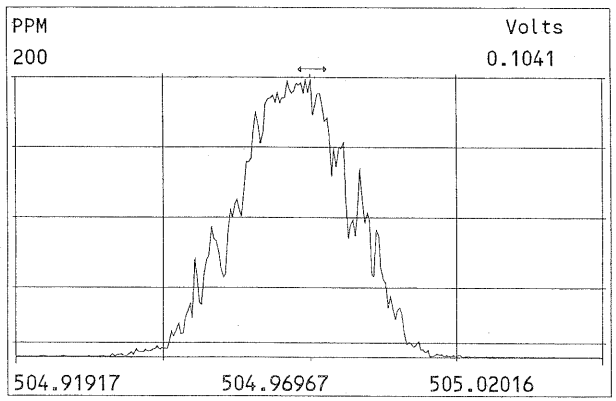


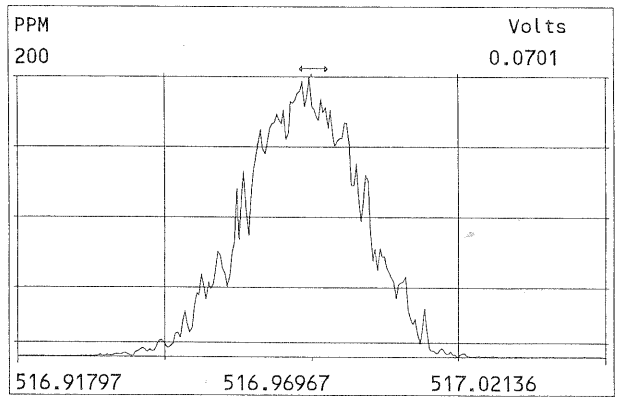




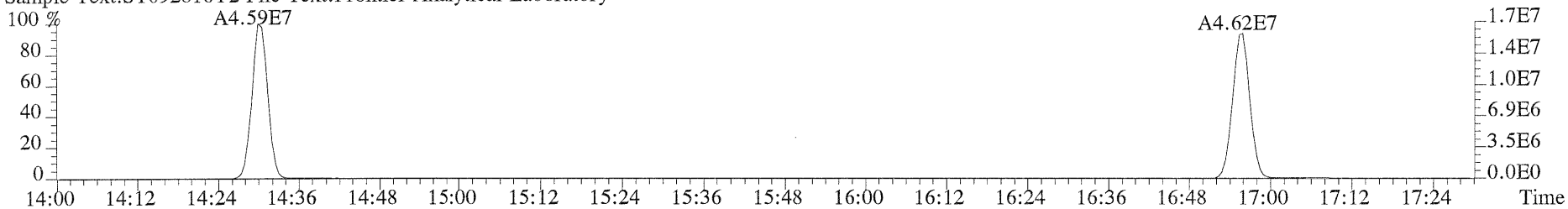




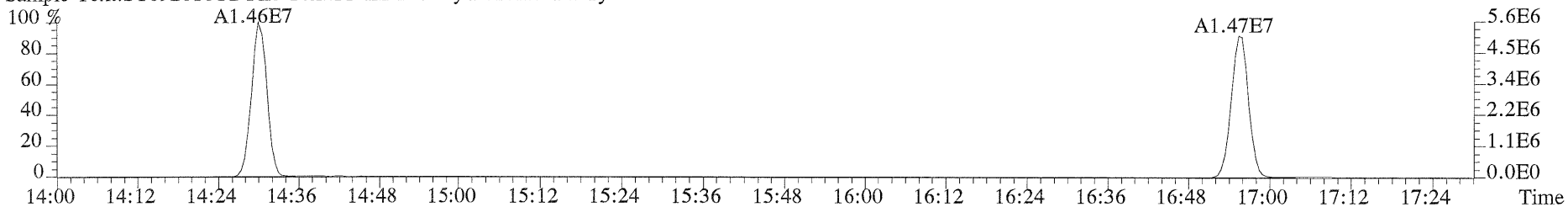




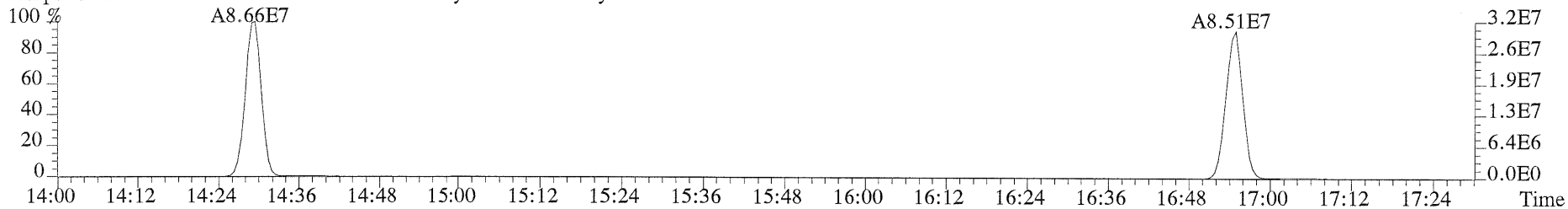
File:28SEP16Y #1-784 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



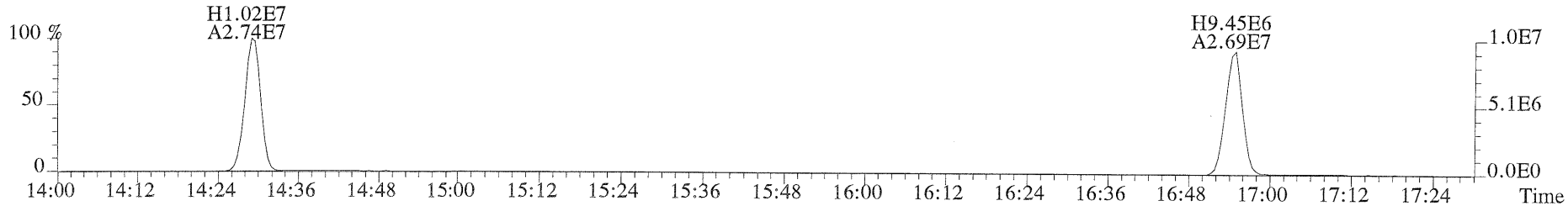
File:28SEP16Y #1-784 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



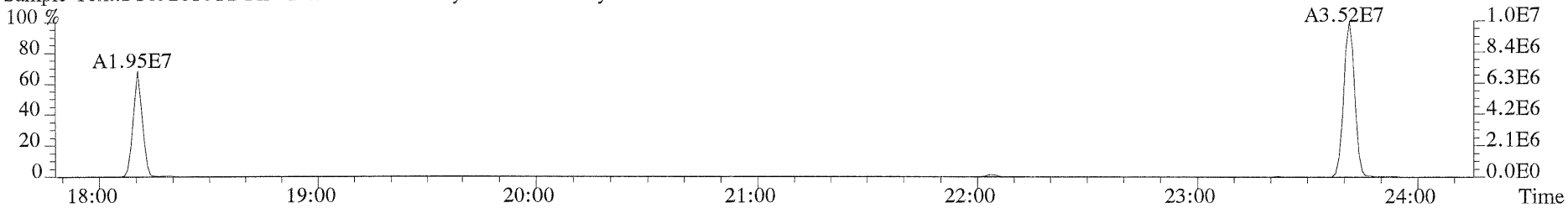
File:28SEP16Y #1-784 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



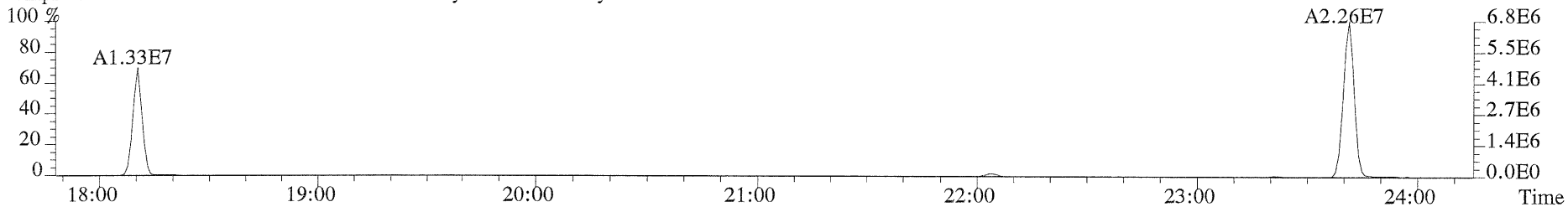
File:28SEP16Y #1-784 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



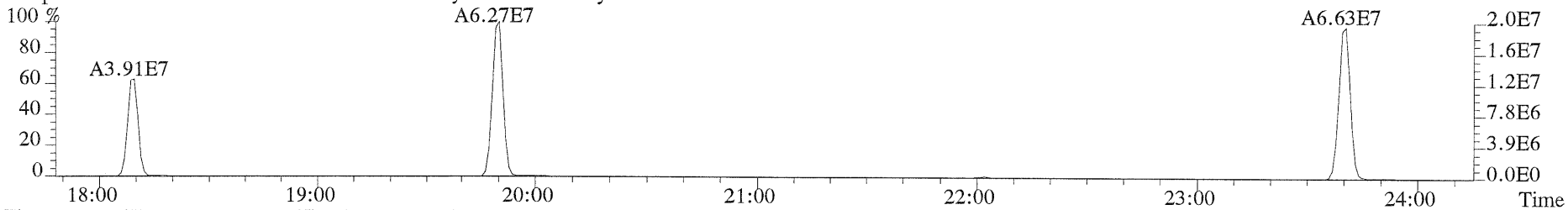
File:28SEP16Y #1-509 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



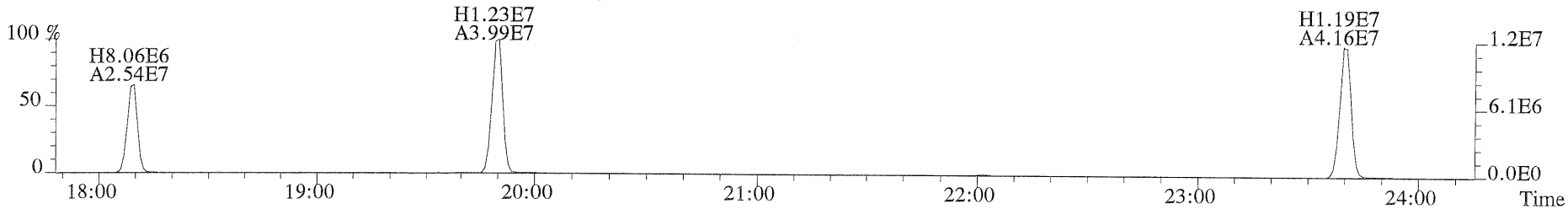
File:28SEP16Y #1-509 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



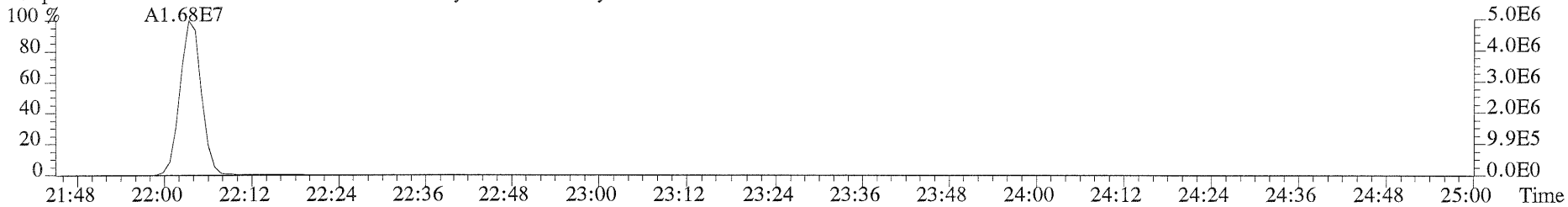
File:28SEP16Y #1-509 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



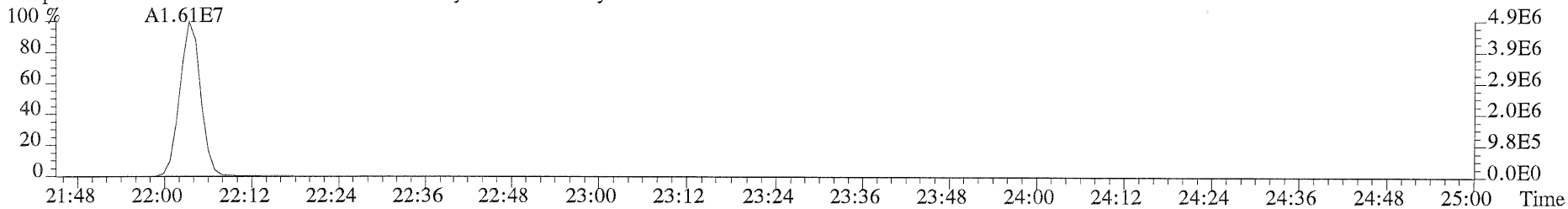
File:28SEP16Y #1-509 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



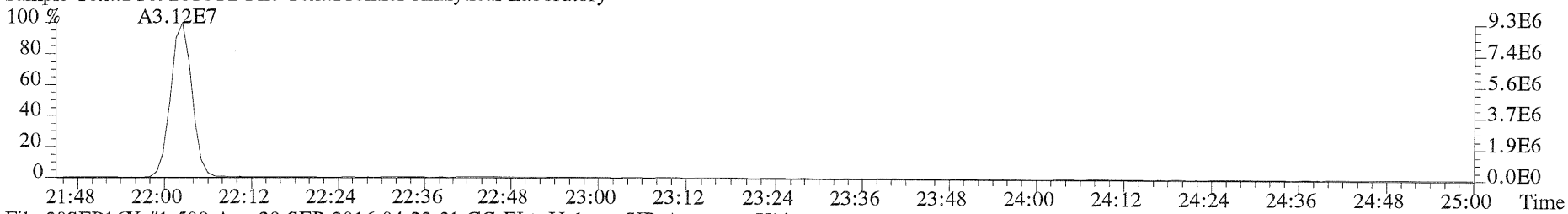
File:28SEP16Y #1-509 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



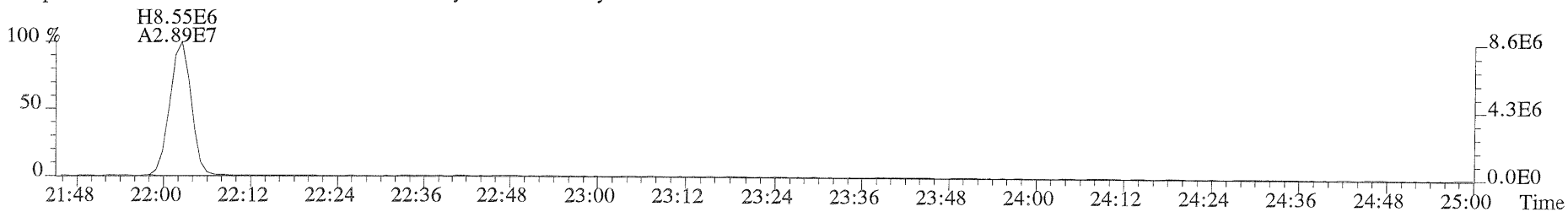
File:28SEP16Y #1-509 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



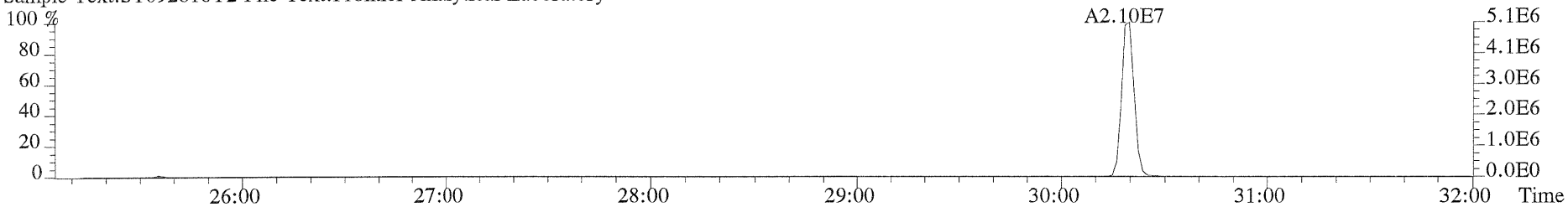
File:28SEP16Y #1-509 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



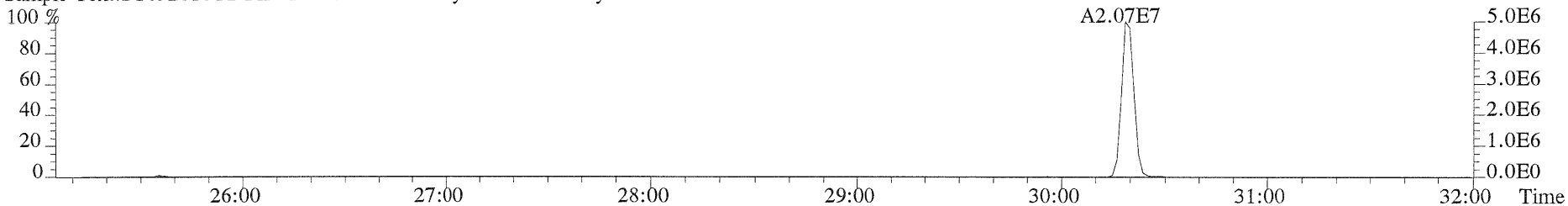
File:28SEP16Y #1-509 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



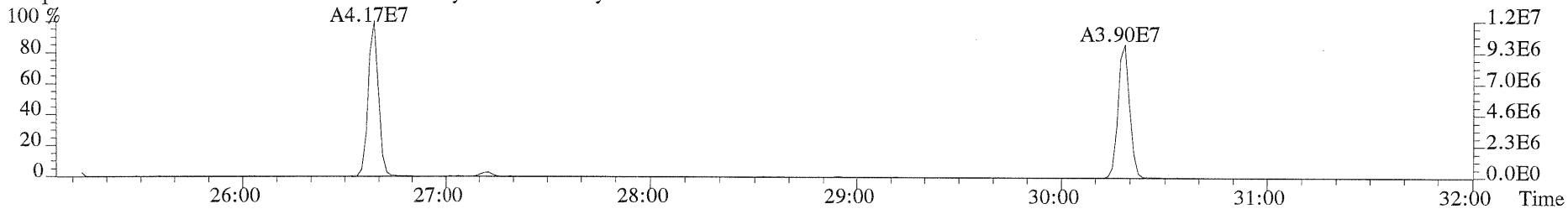
File:28SEP16Y #1-403 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



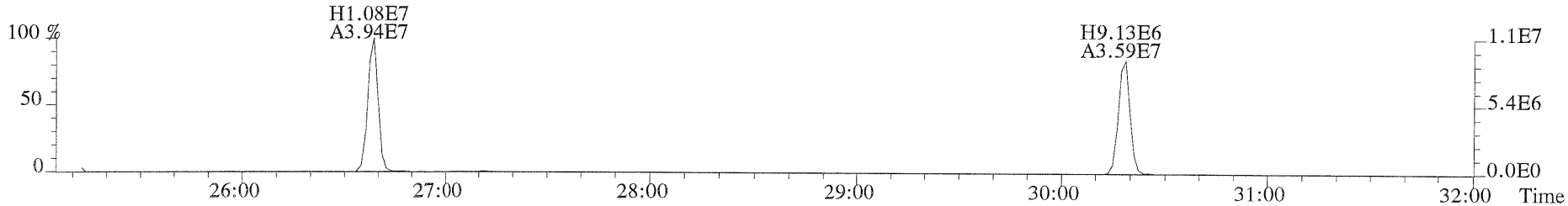
File:28SEP16Y #1-403 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



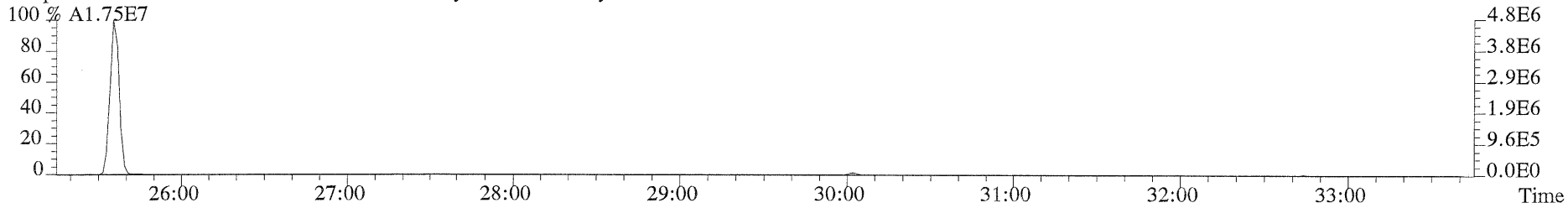
File:28SEP16Y #1-403 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



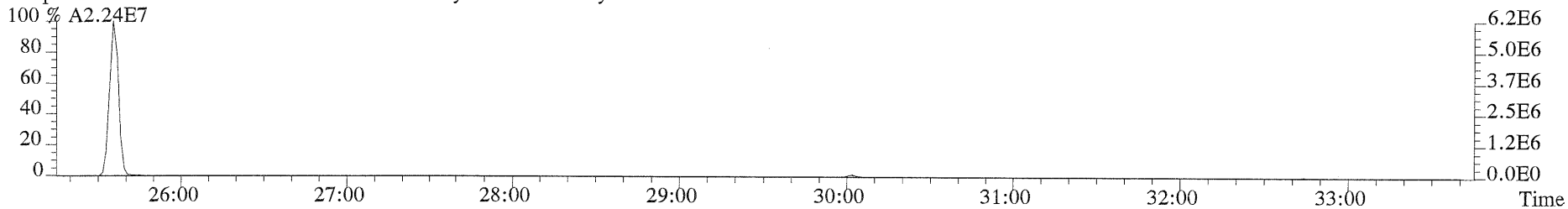
File:28SEP16Y #1-403 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



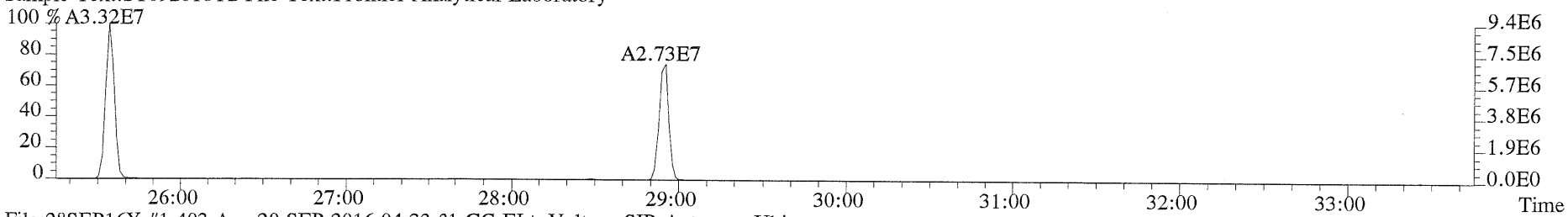
File:28SEP16Y #1-403 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



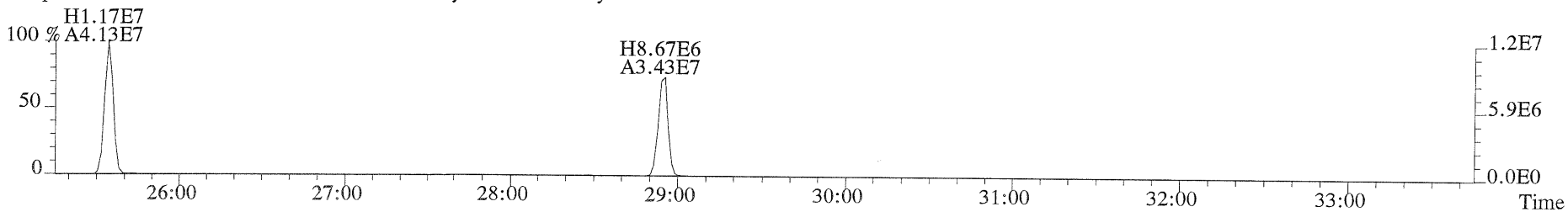
File:28SEP16Y #1-403 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



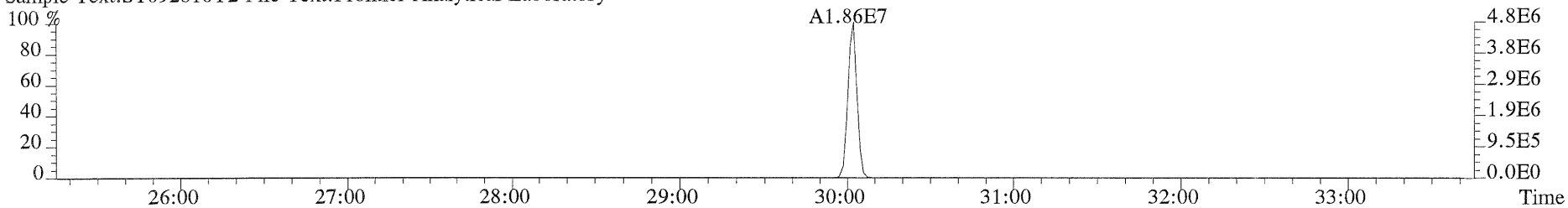
File:28SEP16Y #1-403 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



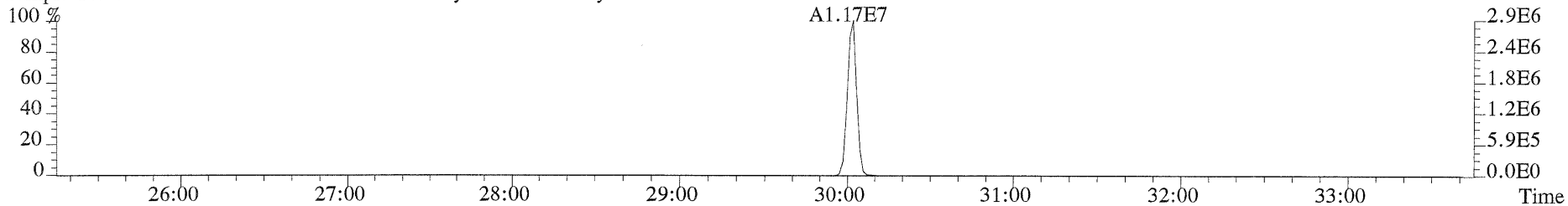
File:28SEP16Y #1-403 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



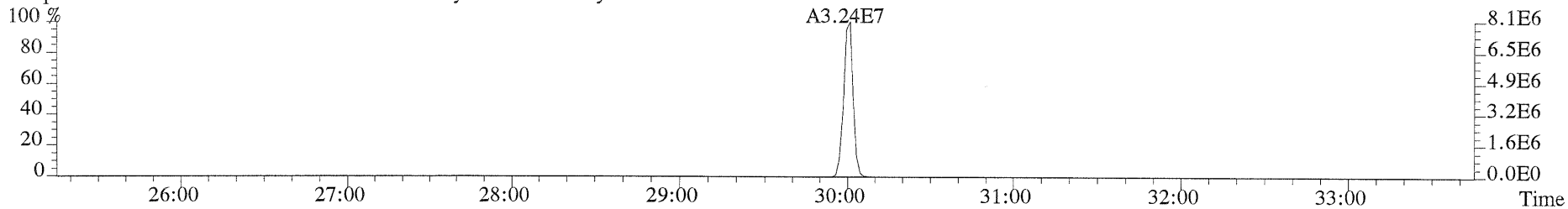
File:28SEP16Y #1-403 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



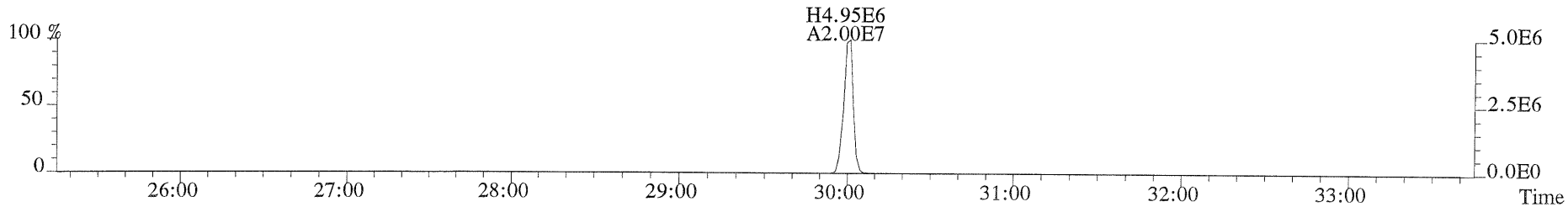
File:28SEP16Y #1-403 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



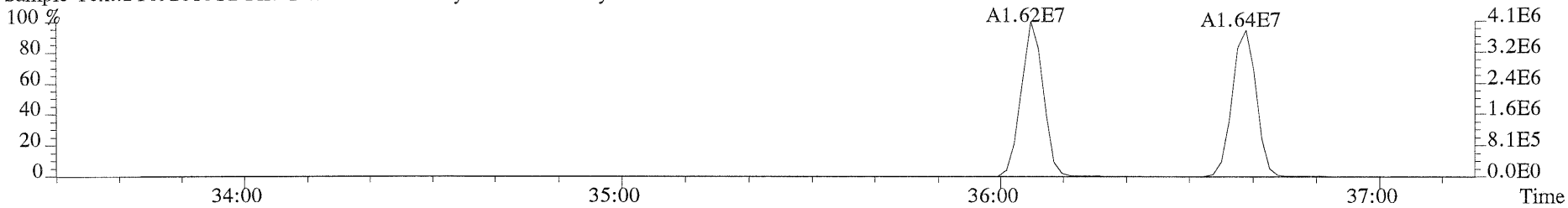
File:28SEP16Y #1-403 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



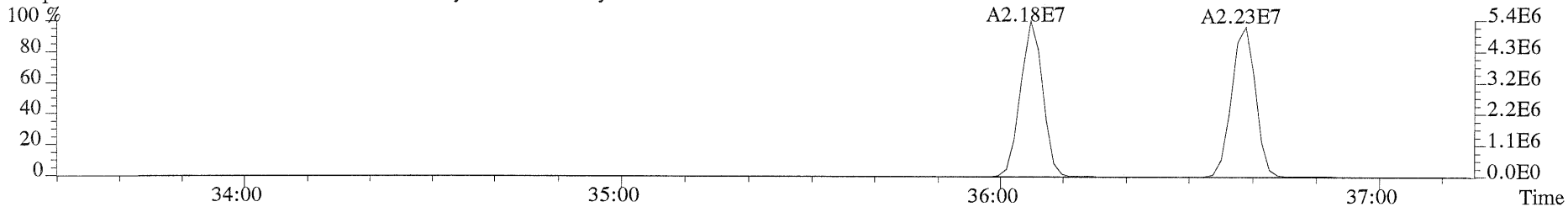
File:28SEP16Y #1-403 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



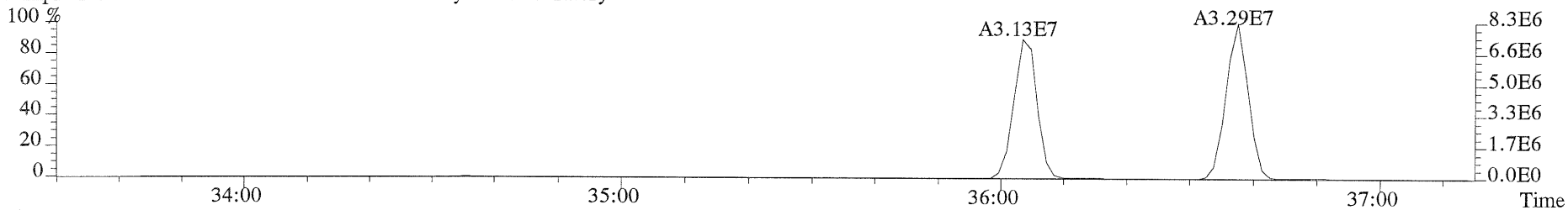
File:28SEP16Y #1-179 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



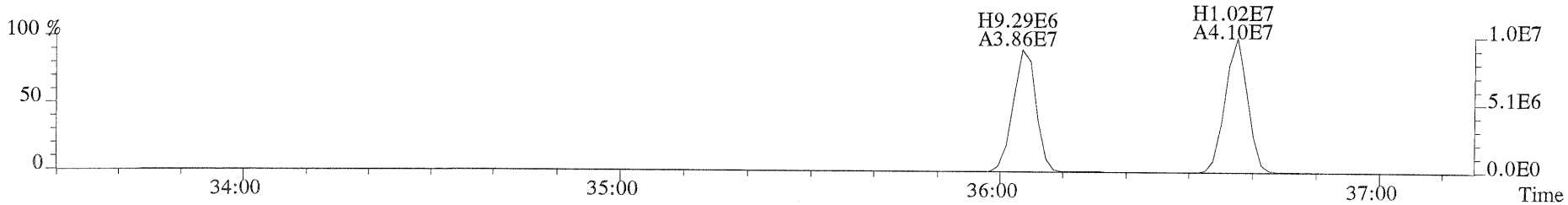
File:28SEP16Y #1-179 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



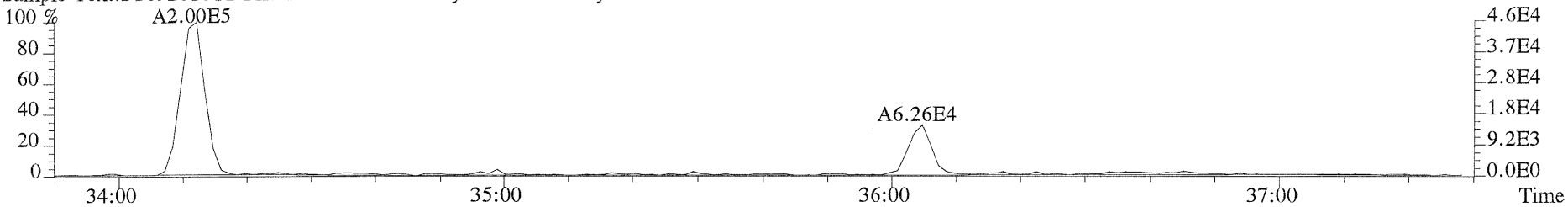
File:28SEP16Y #1-179 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



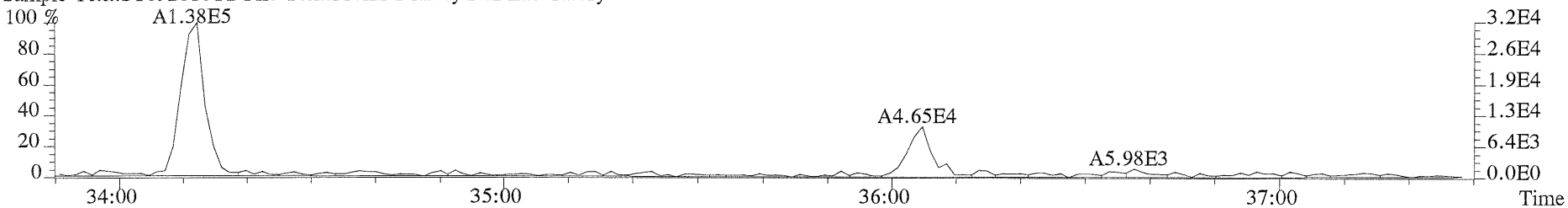
File:28SEP16Y #1-179 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



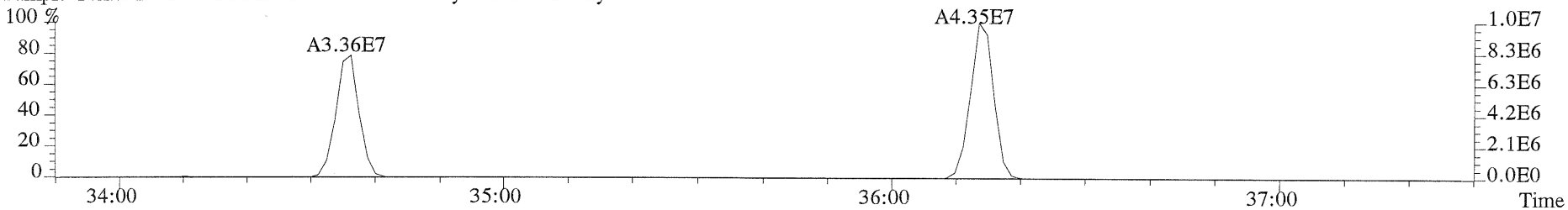
File:28SEP16Y #1-179 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



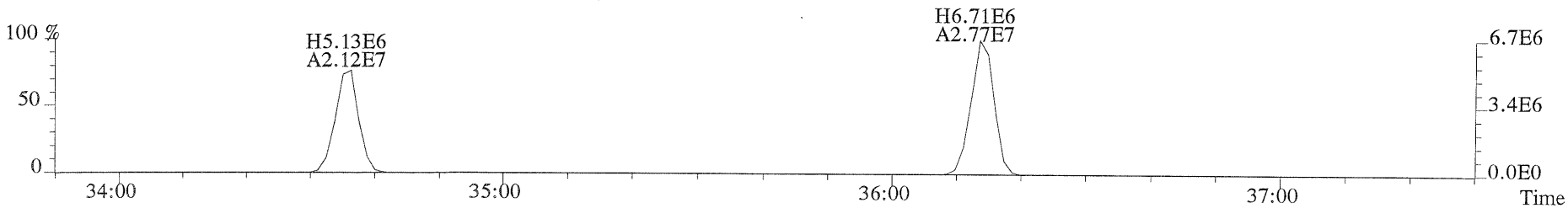
File:28SEP16Y #1-179 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



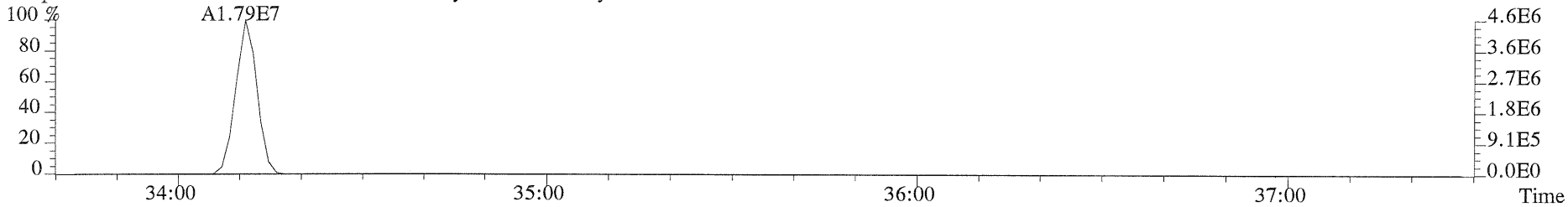
File:28SEP16Y #1-179 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



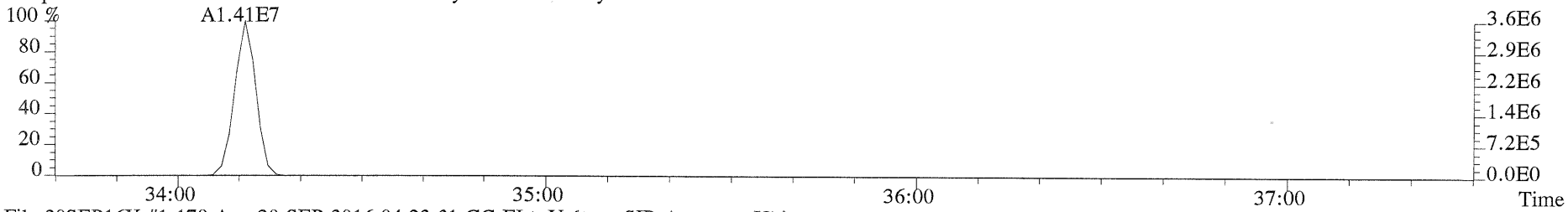
File:28SEP16Y #1-179 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



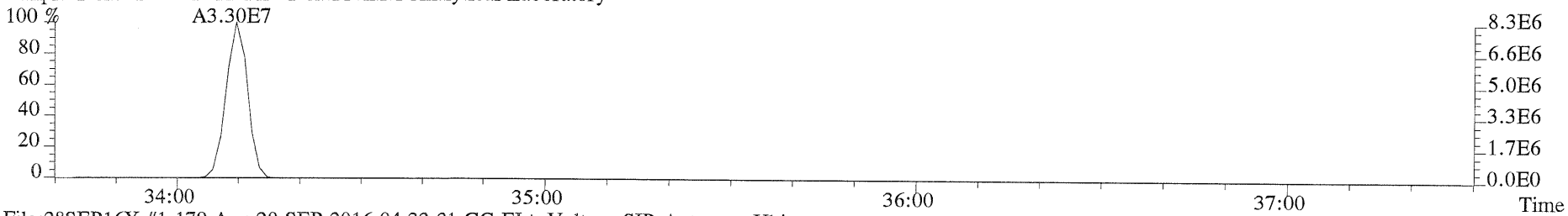
File:28SEP16Y #1-179 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



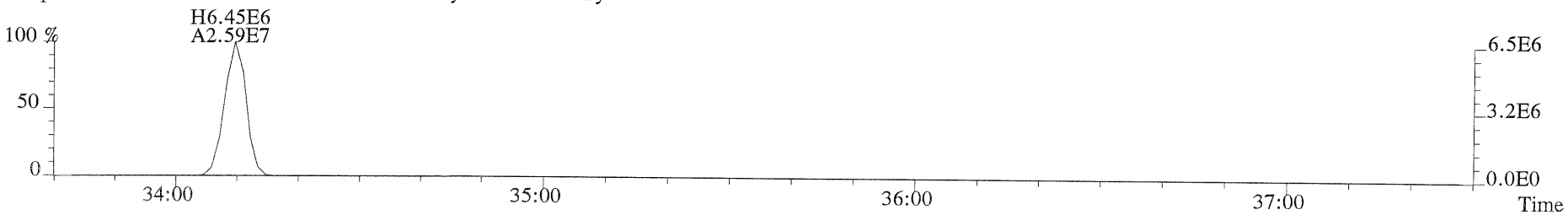
File:28SEP16Y #1-179 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



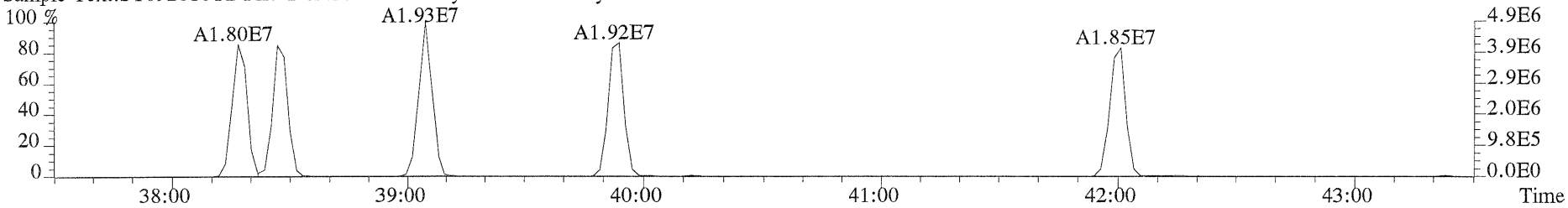
File:28SEP16Y #1-179 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



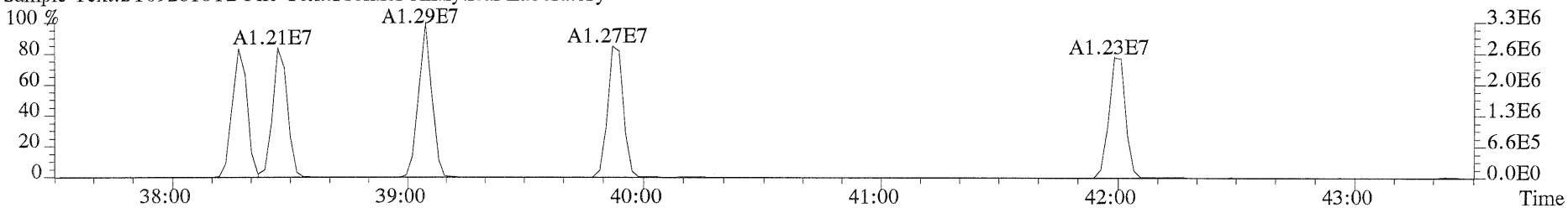
File:28SEP16Y #1-179 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



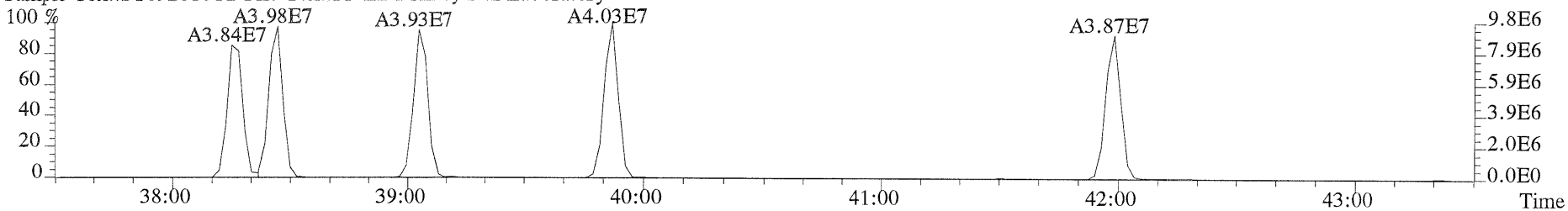
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



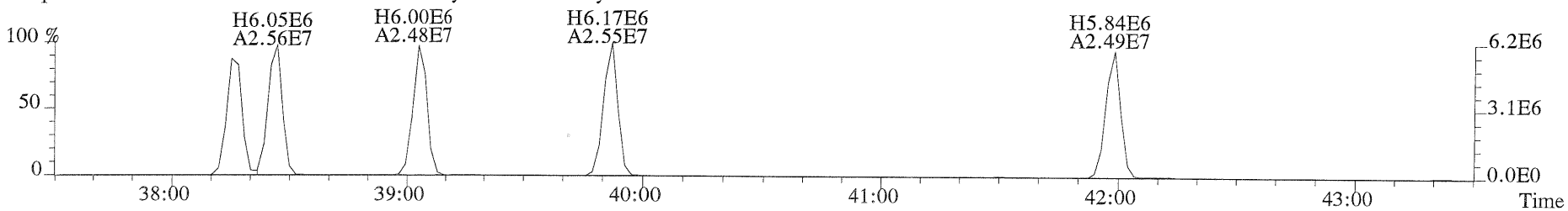
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



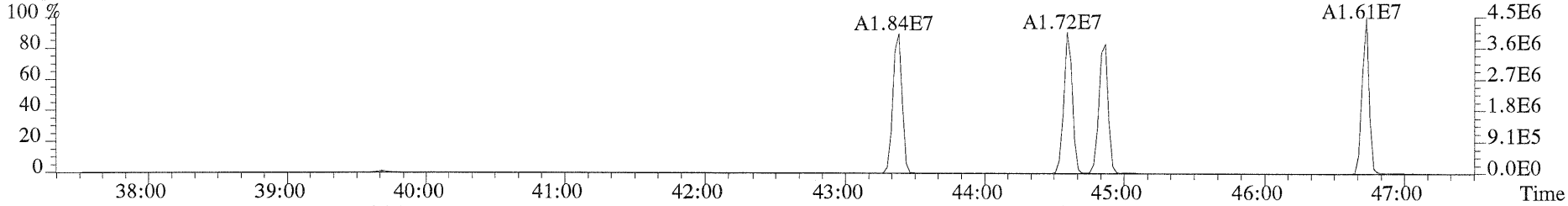
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



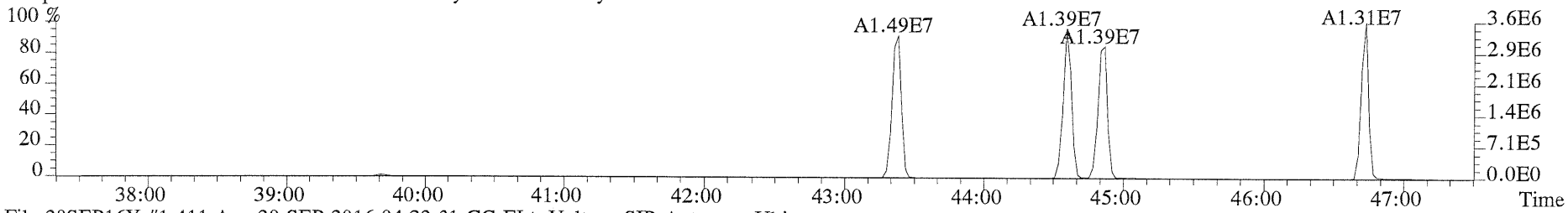
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



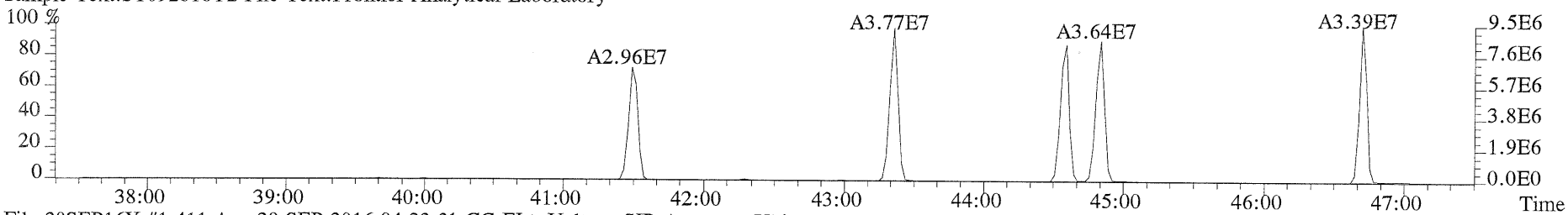
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



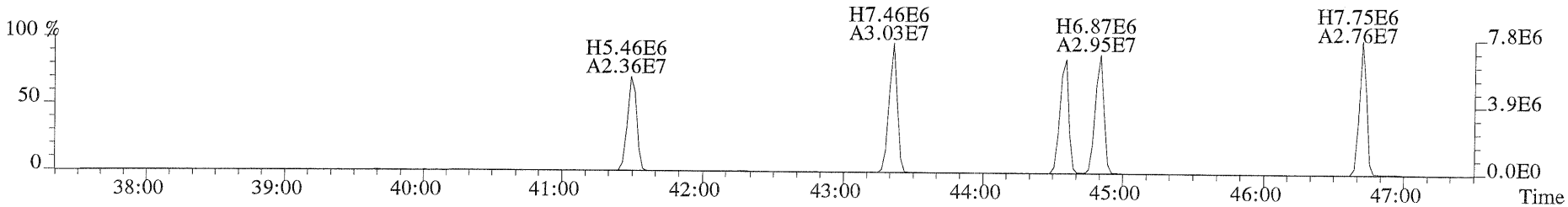
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



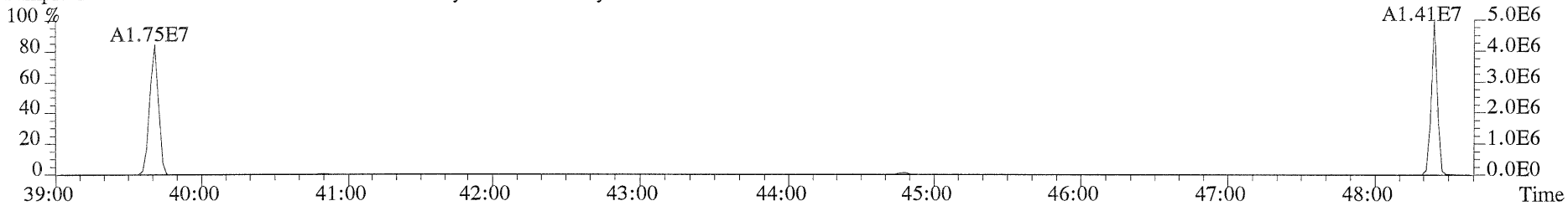
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



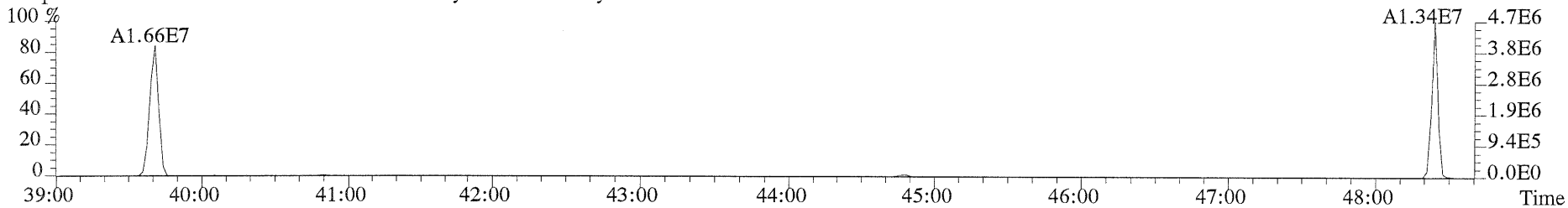
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



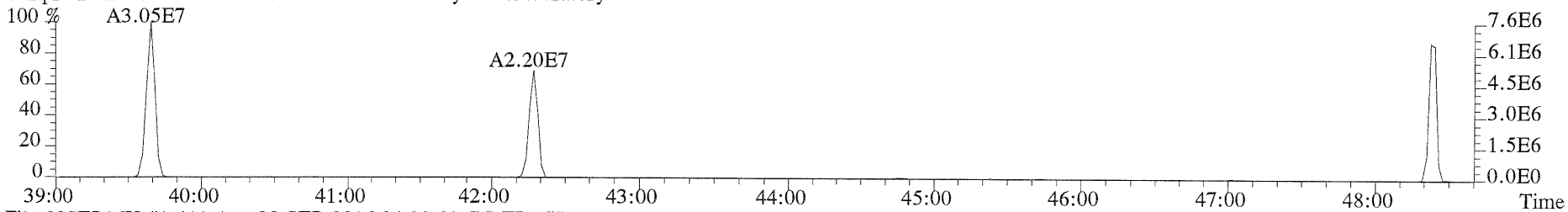
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



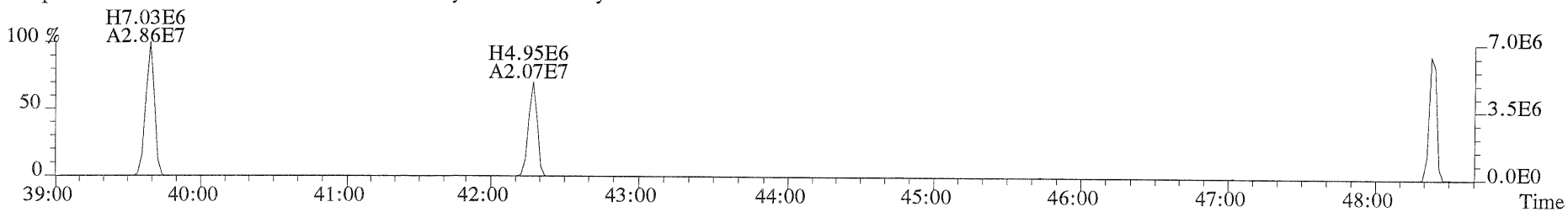
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



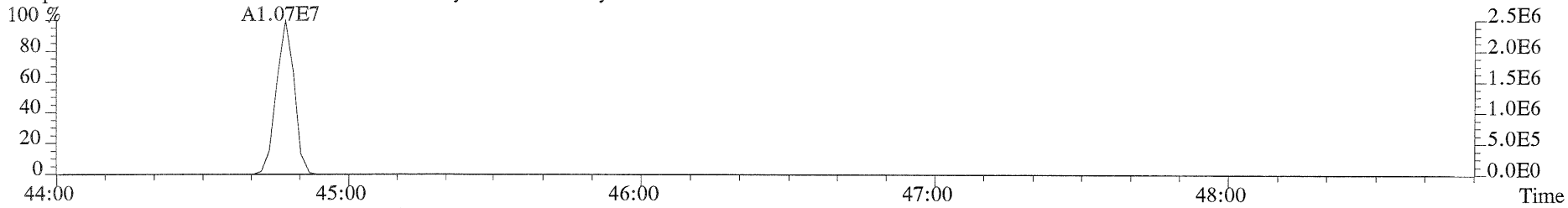
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



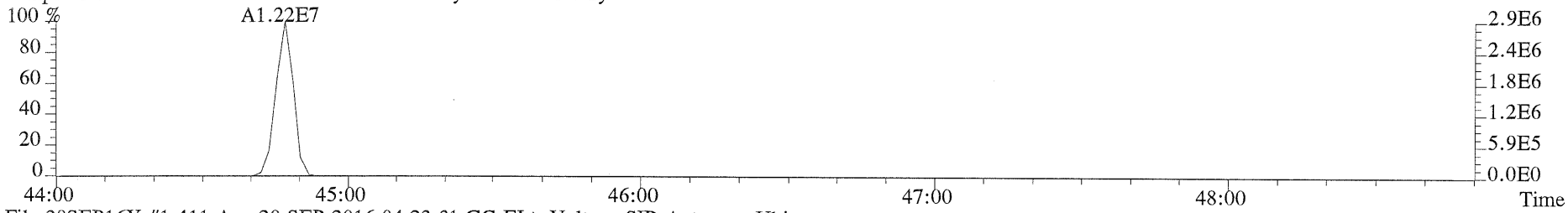
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



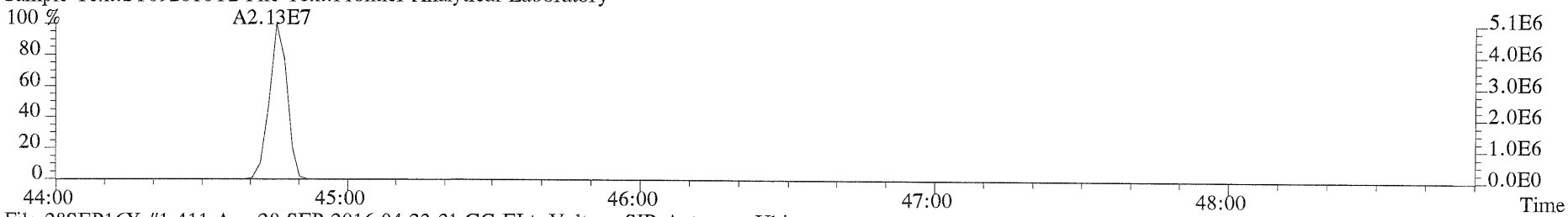
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



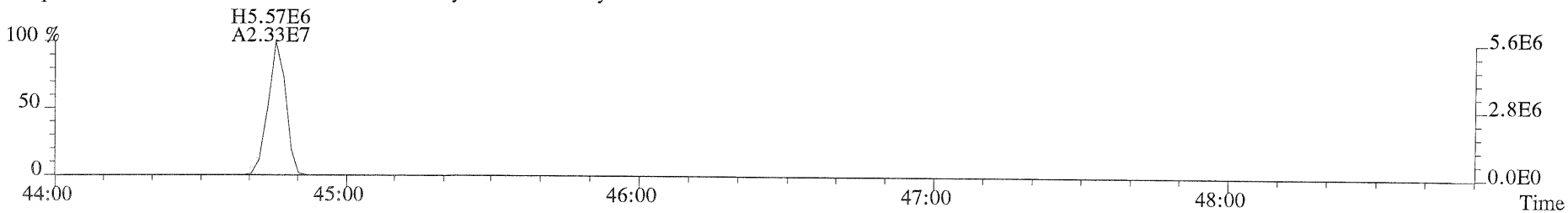
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



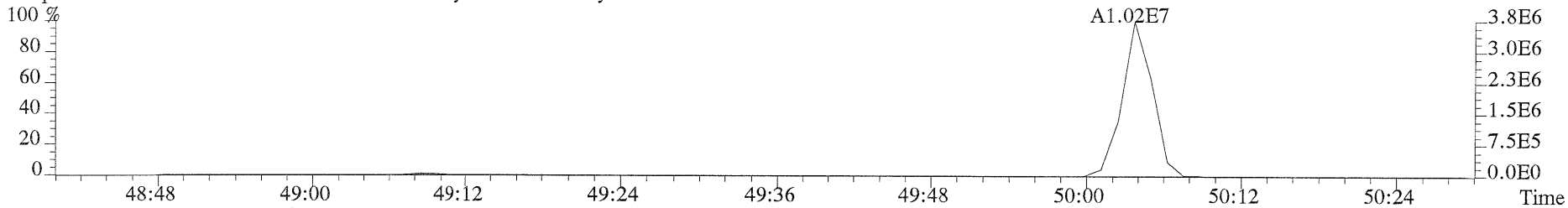
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



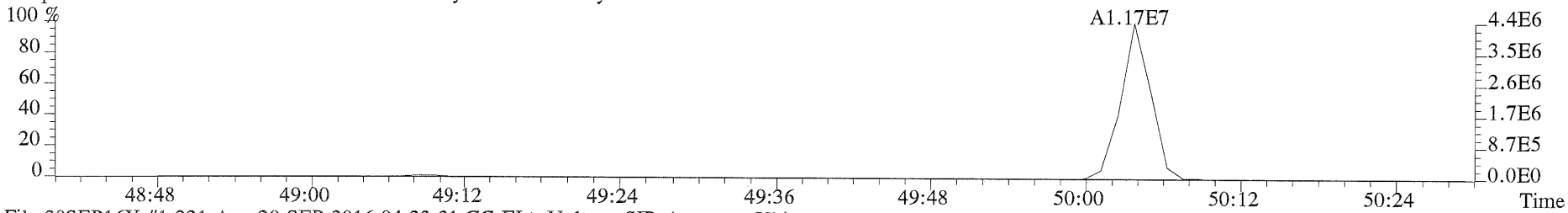
File:28SEP16Y #1-411 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



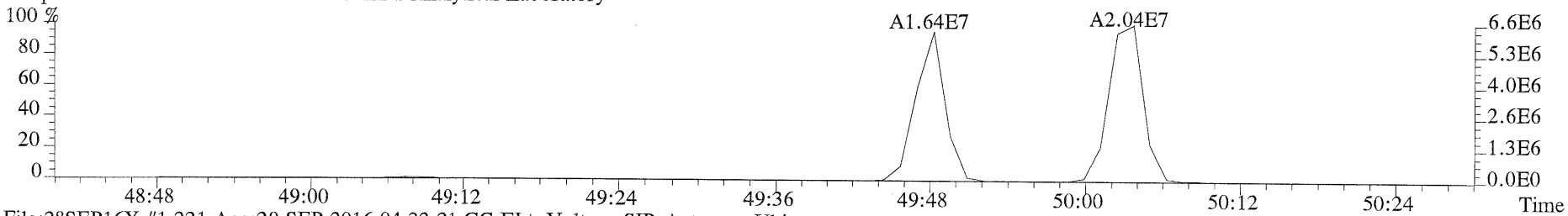
File:28SEP16Y #1-221 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



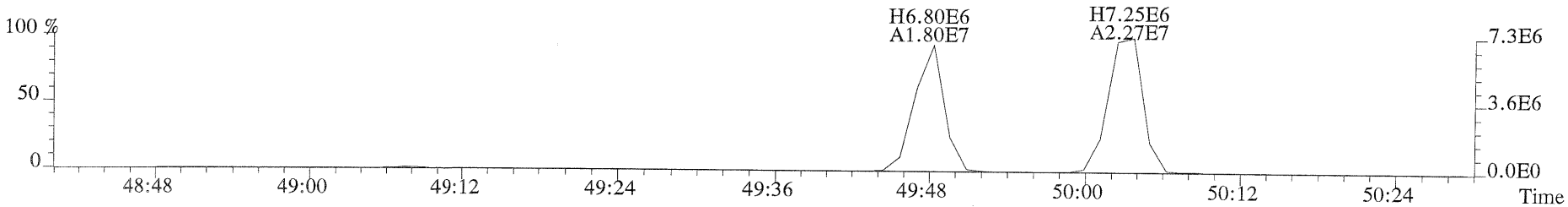
File:28SEP16Y #1-221 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



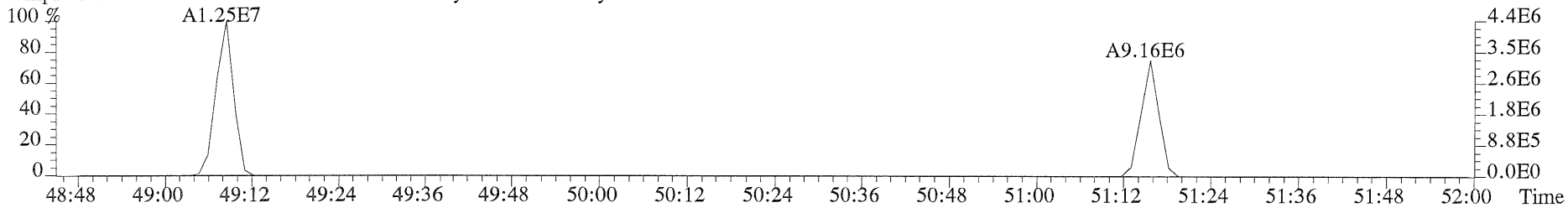
File:28SEP16Y #1-221 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



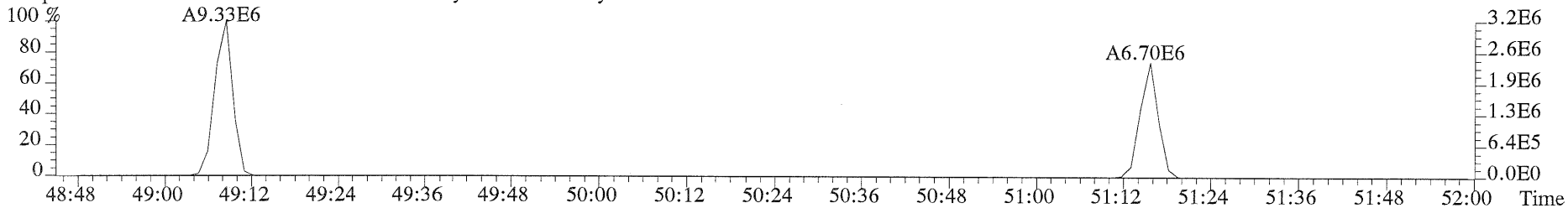
File:28SEP16Y #1-221 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



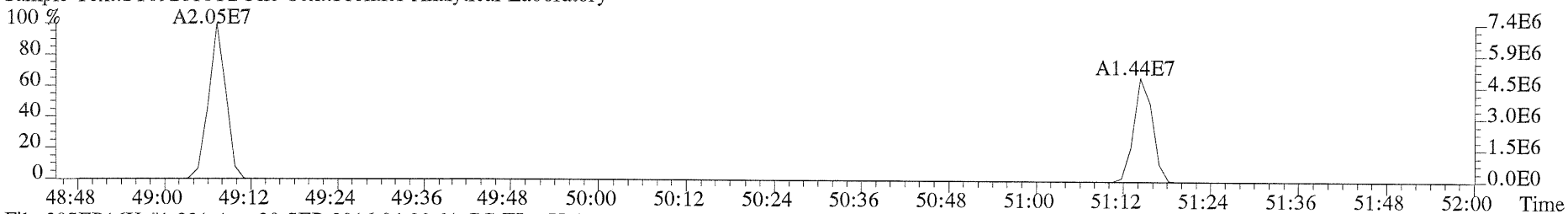
File:28SEP16Y #1-221 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



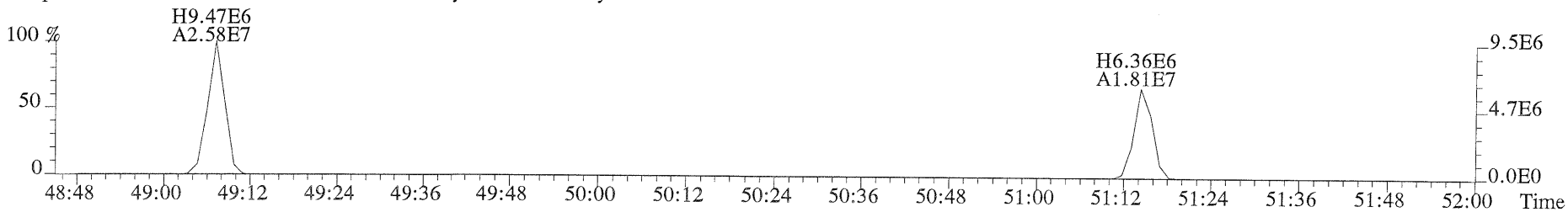
File:28SEP16Y #1-221 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



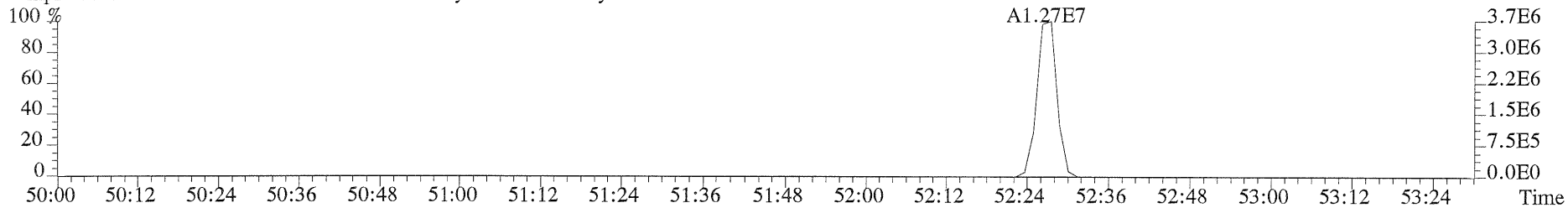
File:28SEP16Y #1-221 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



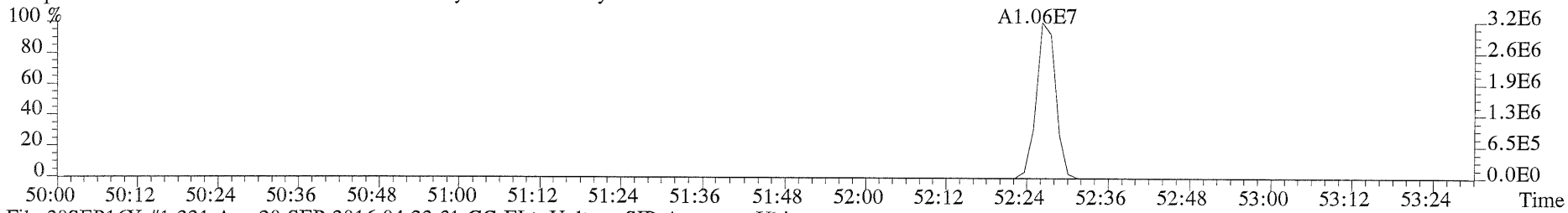
File:28SEP16Y #1-221 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



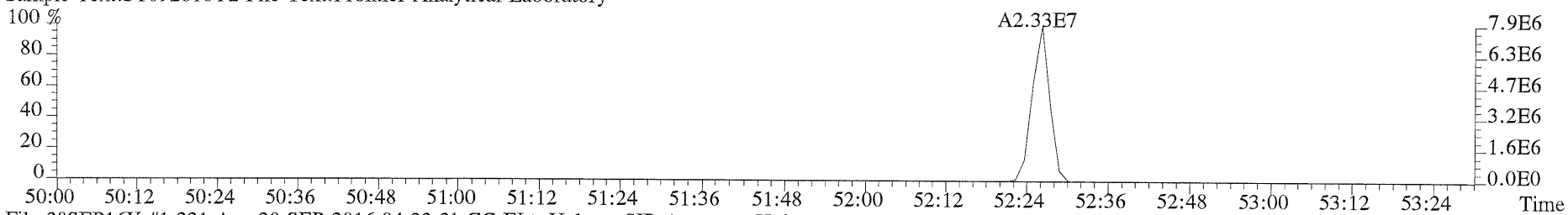
File:28SEP16Y #1-221 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



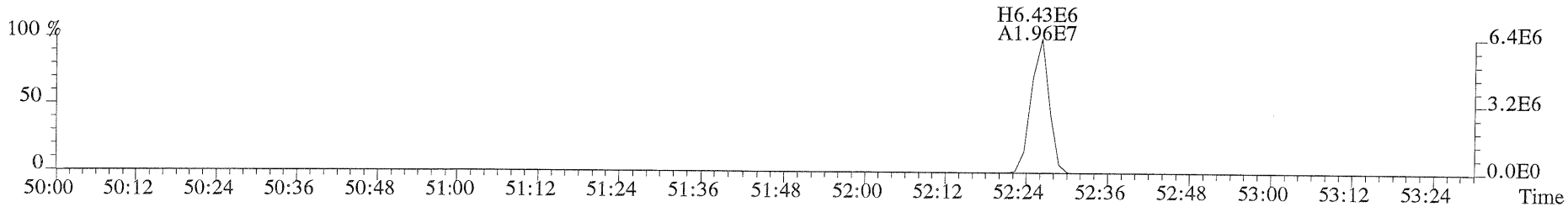
File:28SEP16Y #1-221 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory



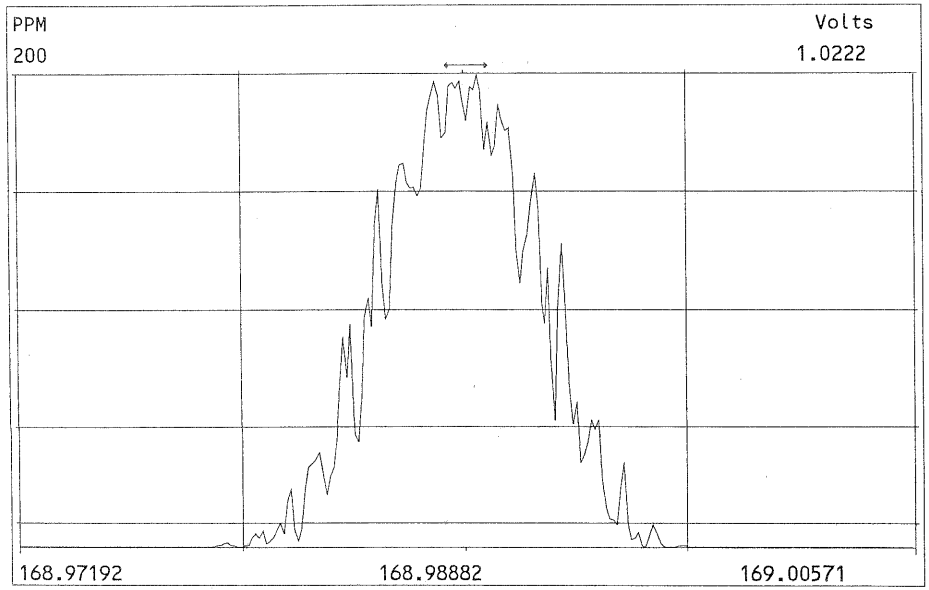
File:28SEP16Y #1-221 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory

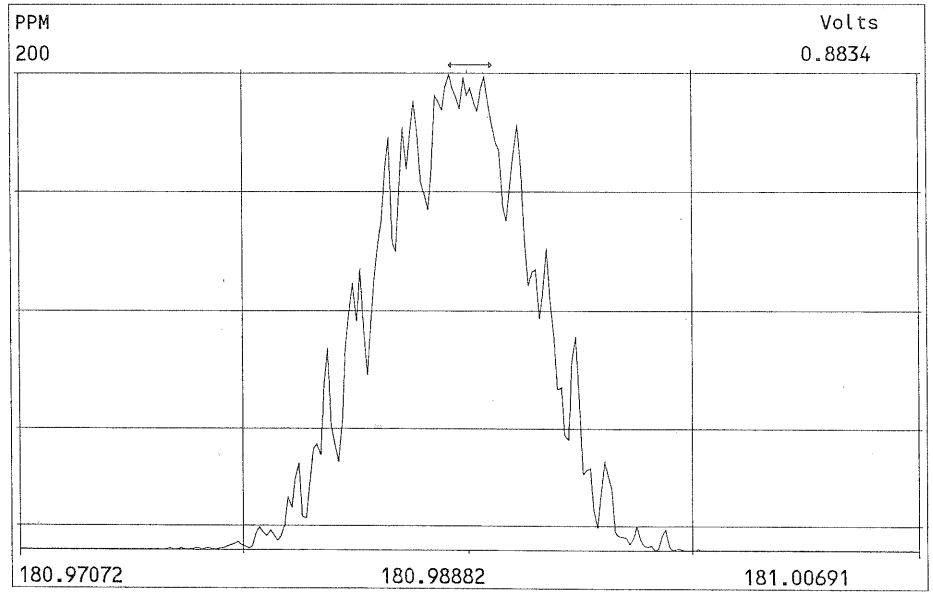


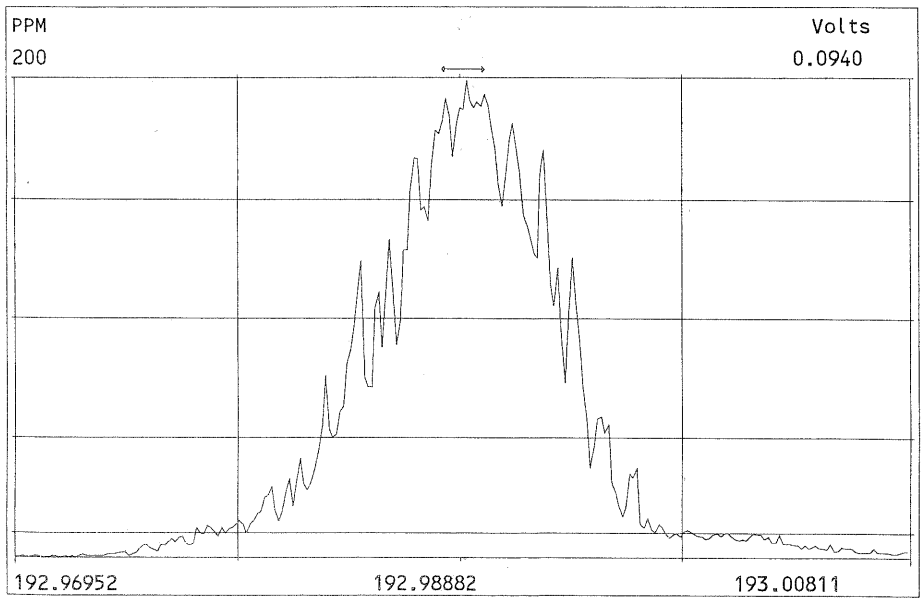
File:28SEP16Y #1-221 Acq:29-SEP-2016 04:32:21 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y2 File Text:Frontier Analytical Laboratory

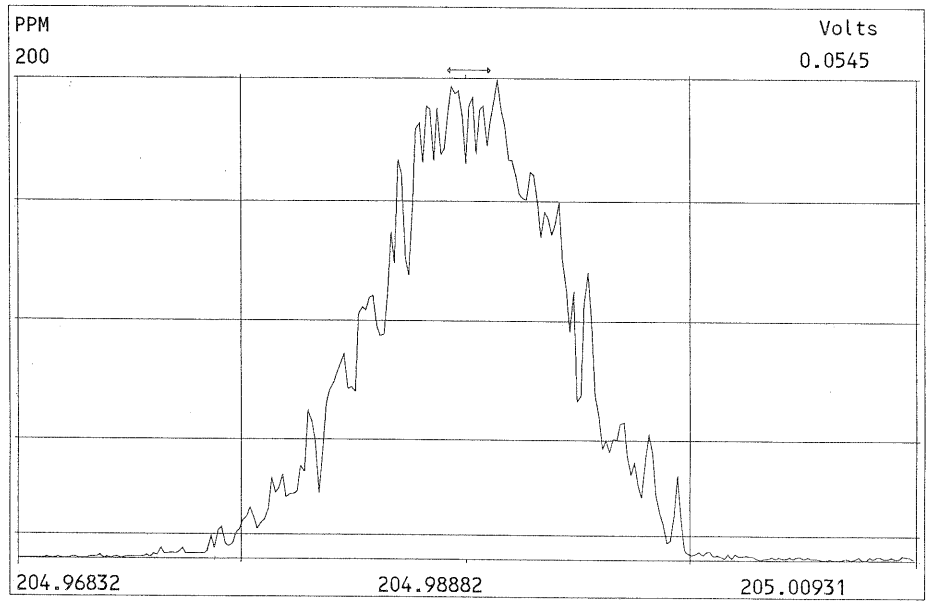


Peak Locate Examination:29-SEP-2016:13:02 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

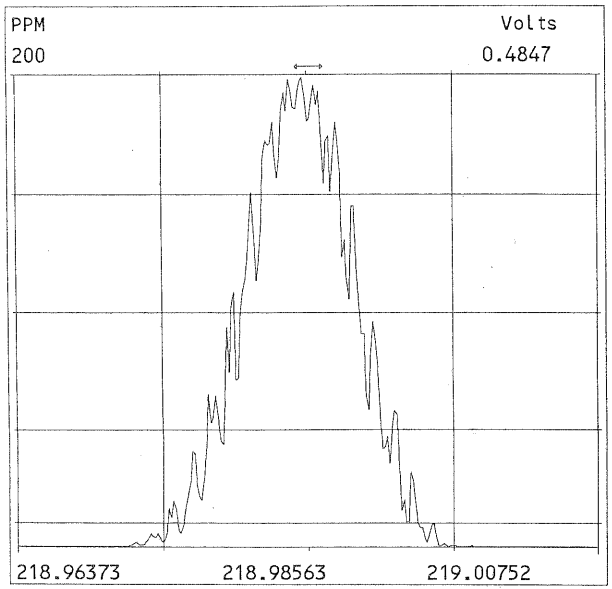


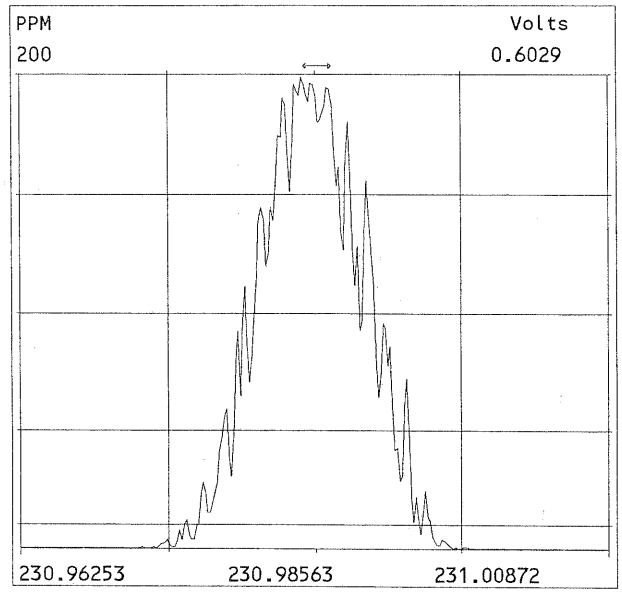


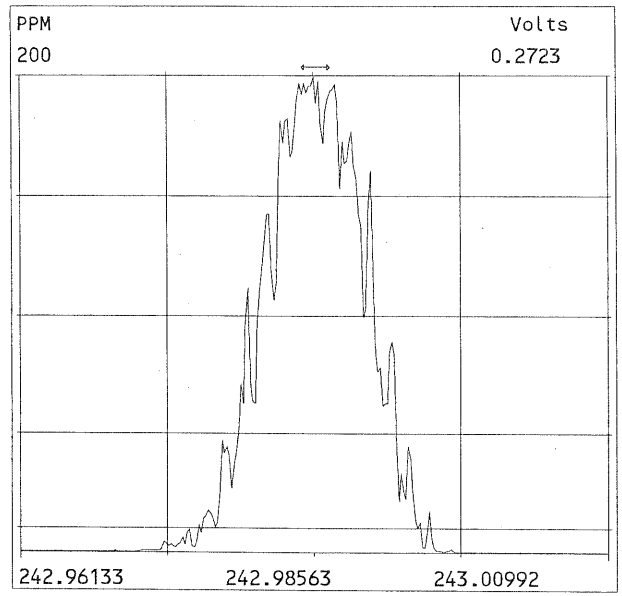


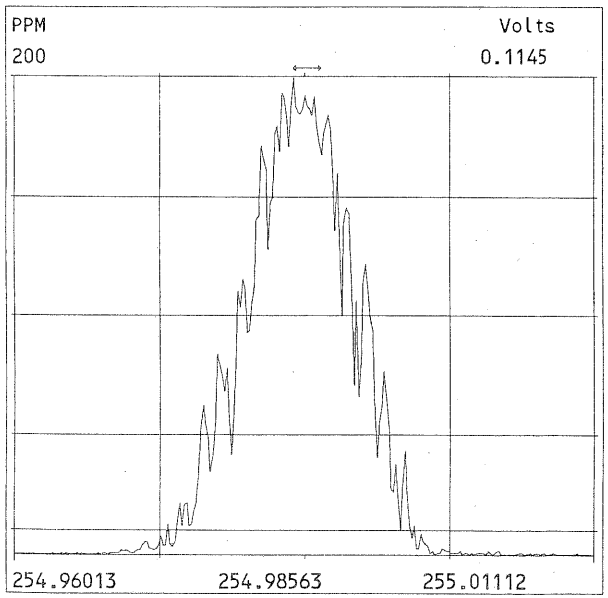


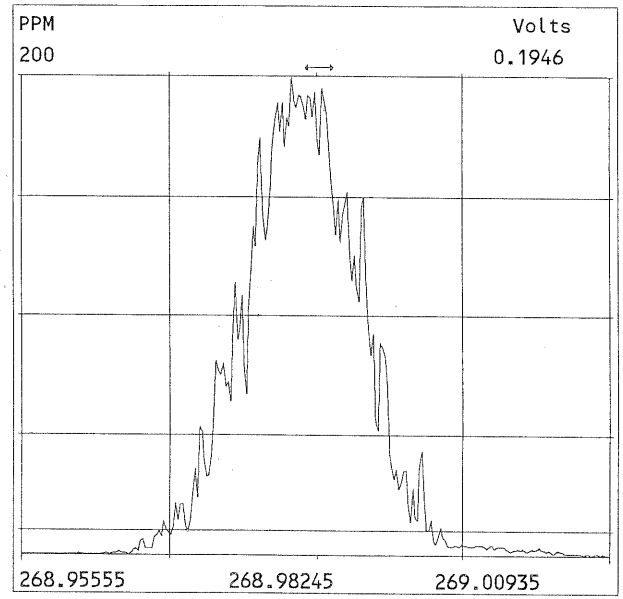
Peak Locate Examination:29-SEP-2016:13:02 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

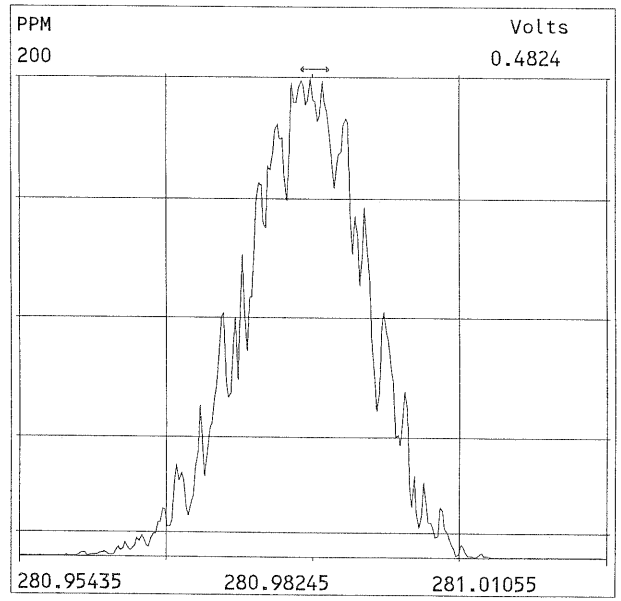




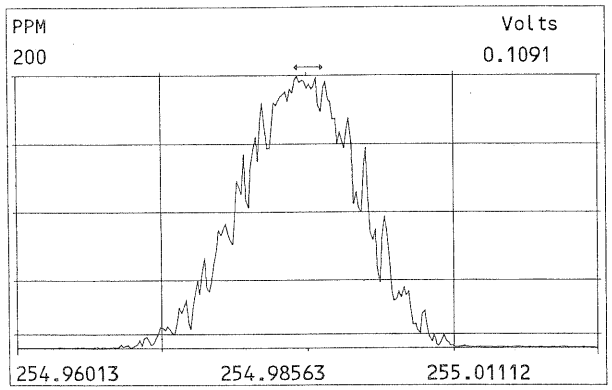


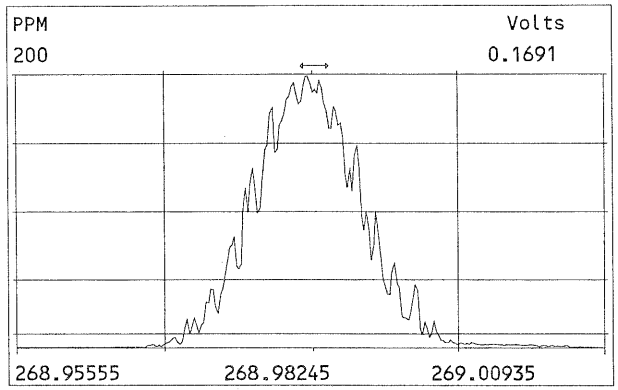


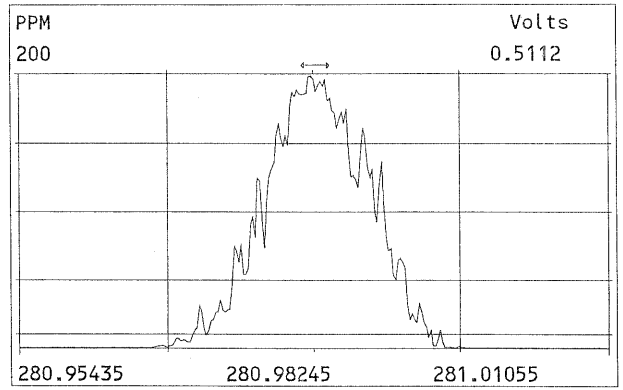


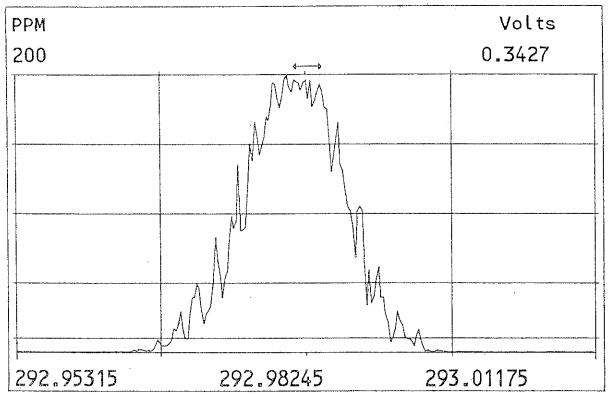


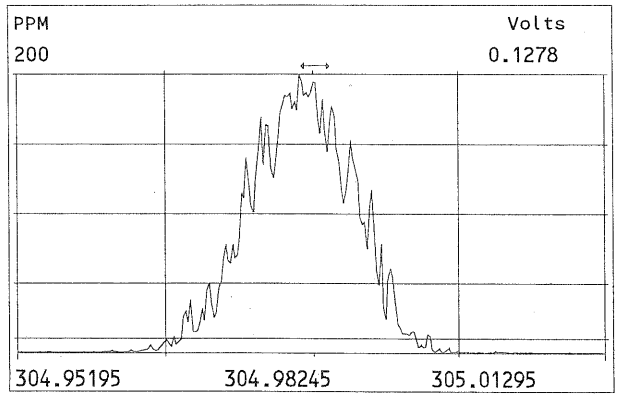
Peak Locate Examination:29-SEP-2016:13:03 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

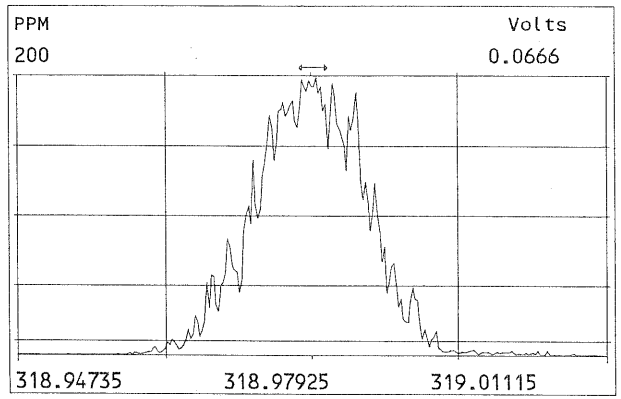


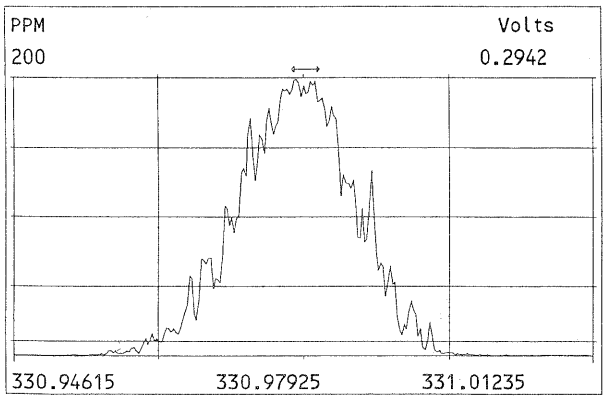


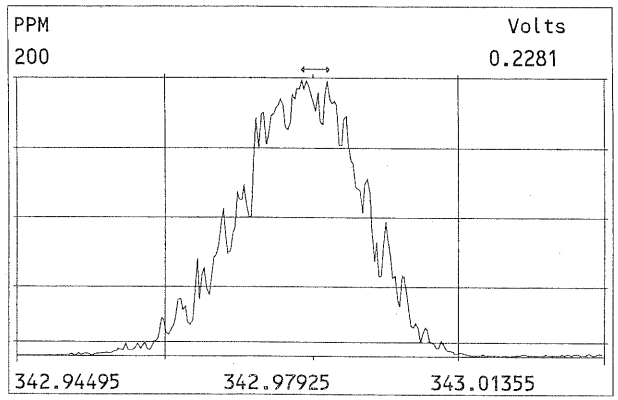




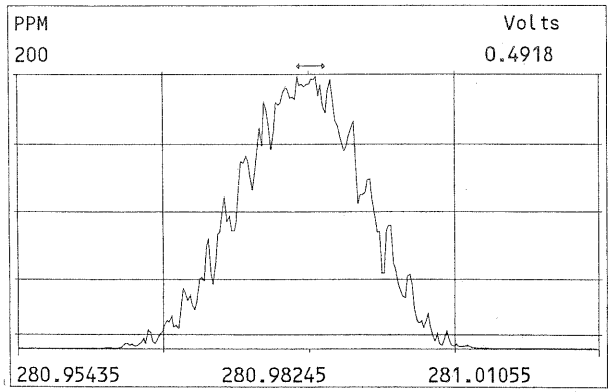


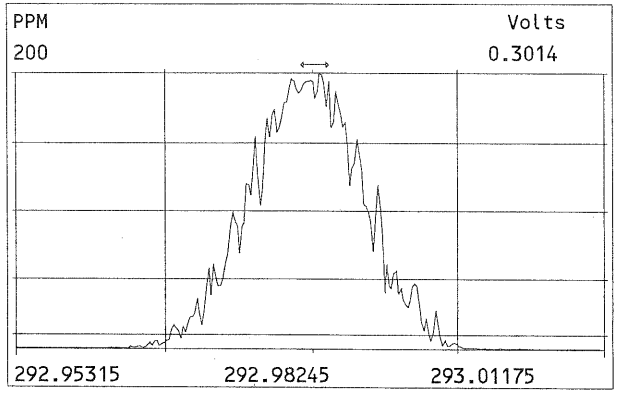


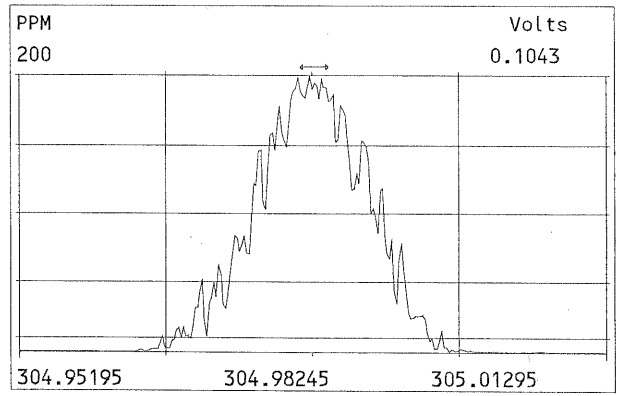


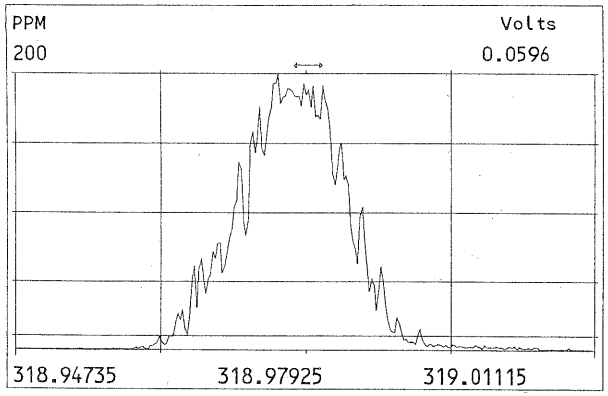


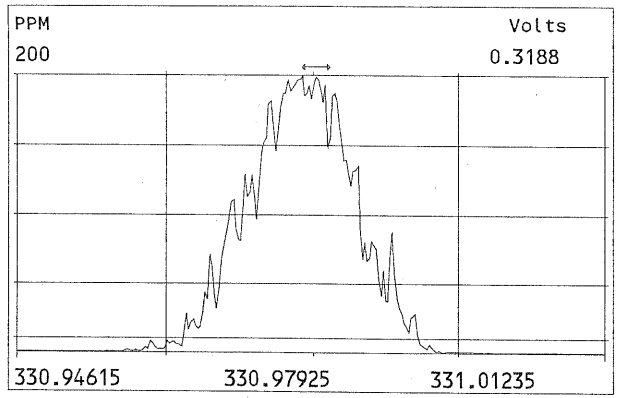
Peak Locate Examination:29-SEP-2016:13:04 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

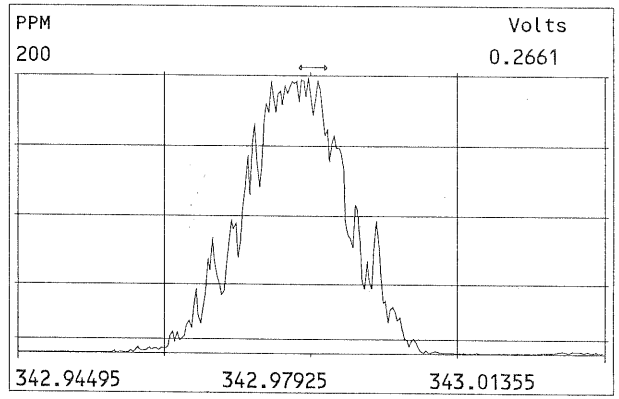


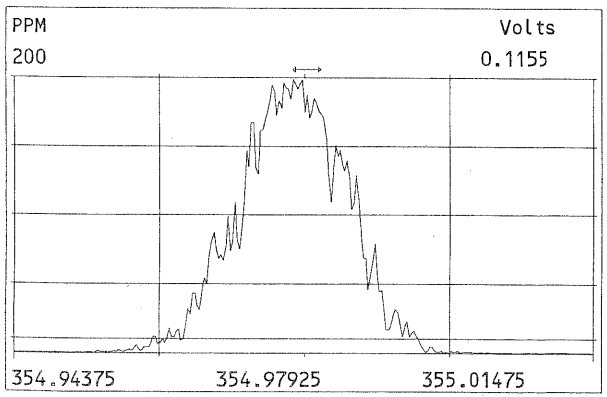


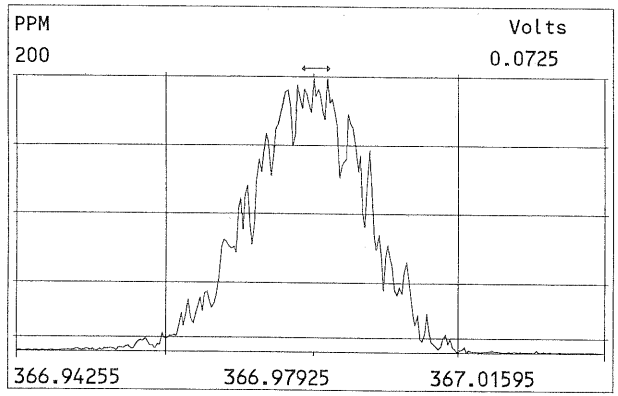


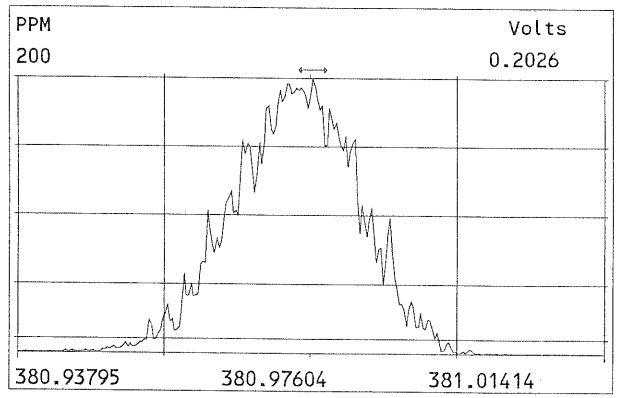




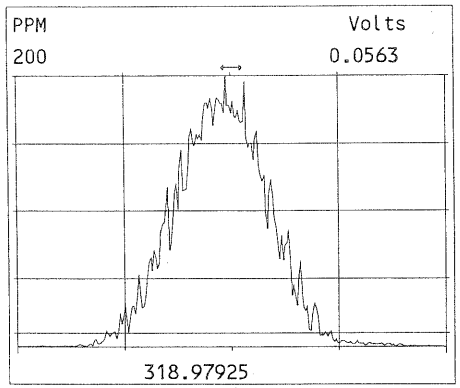


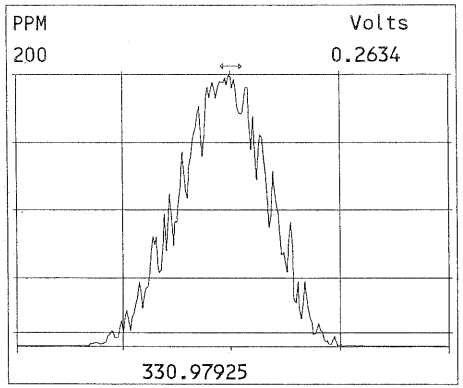


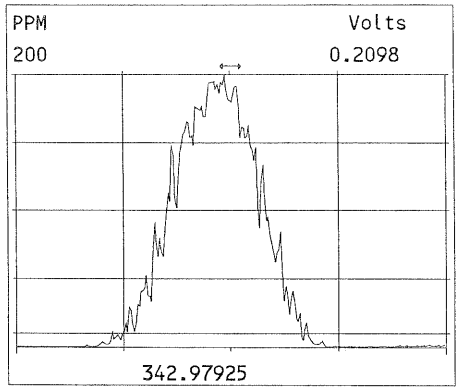


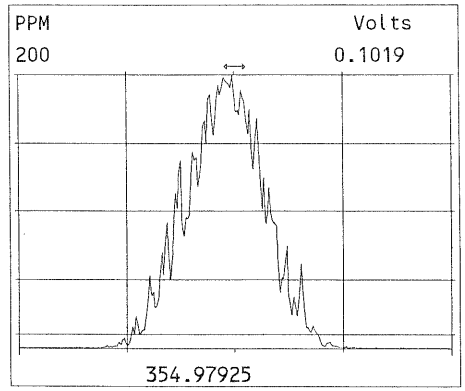


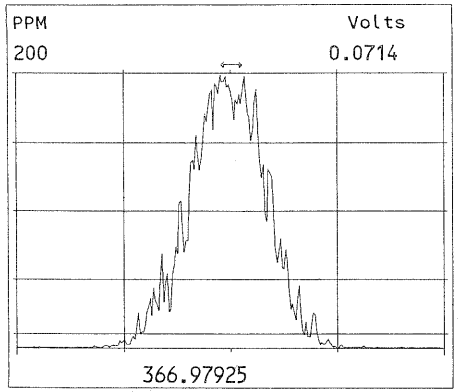
Peak Locate Examination:29-SEP-2016:13:04 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

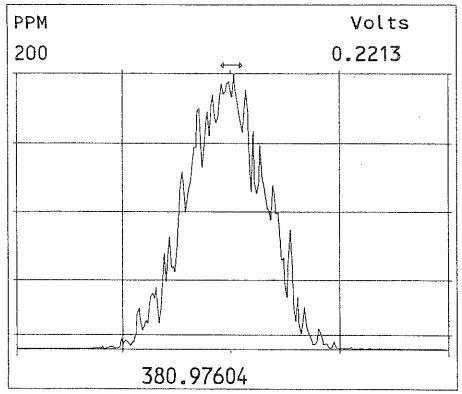


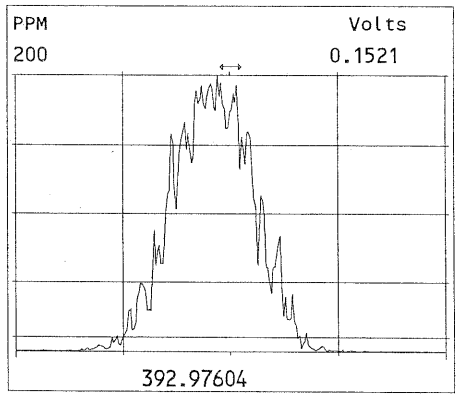


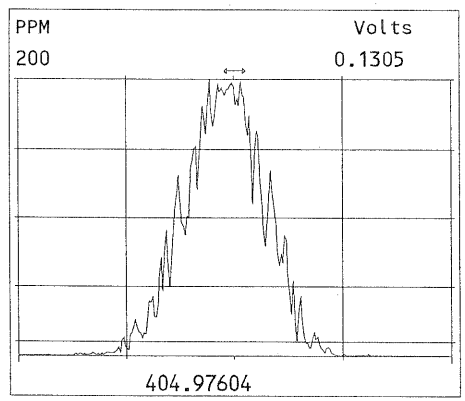


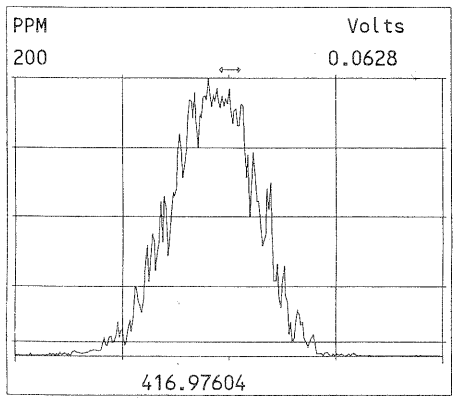


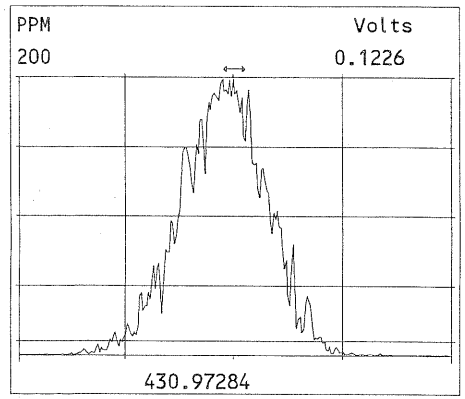


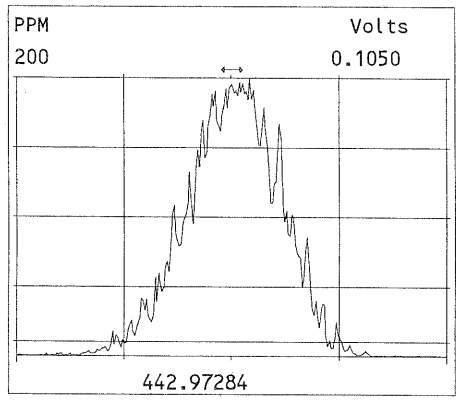




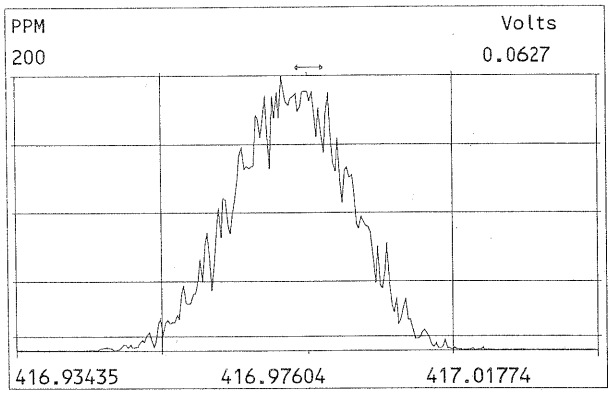


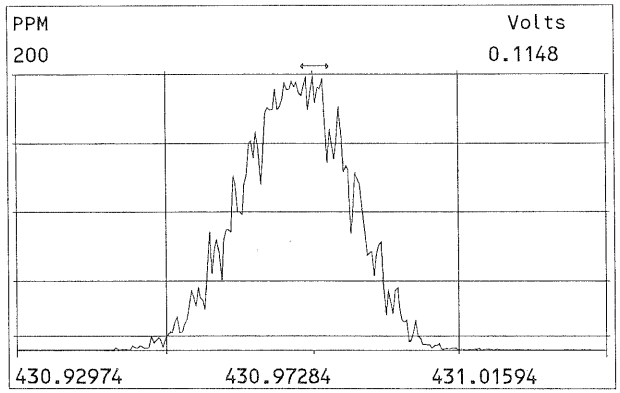


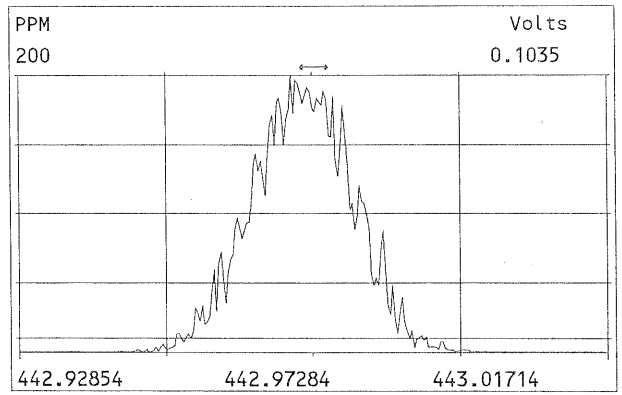


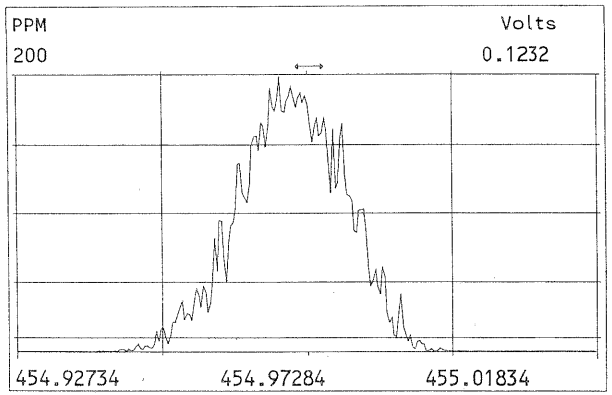


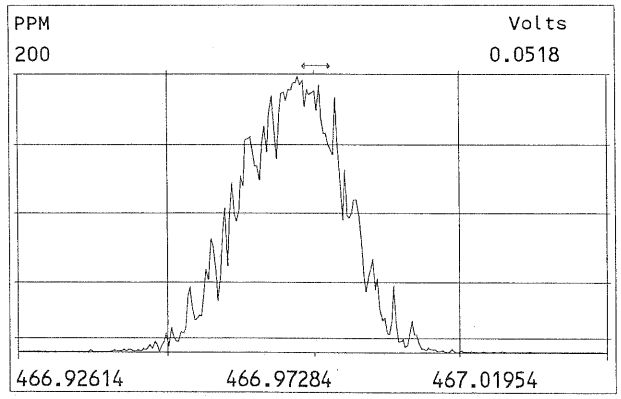
Peak Locate Examination:29-SEP-2016:13:05 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

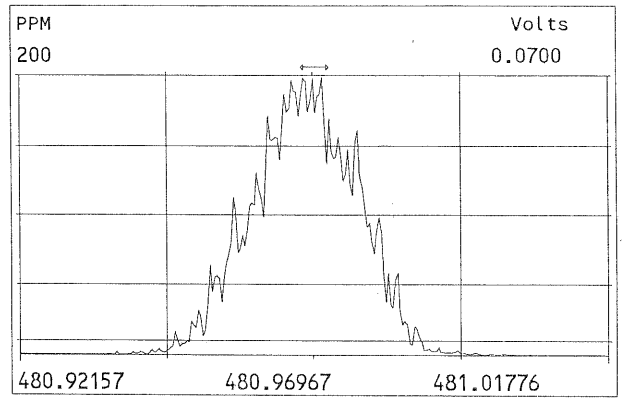


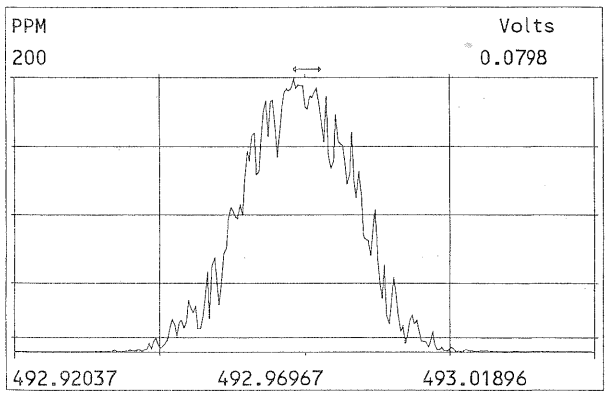


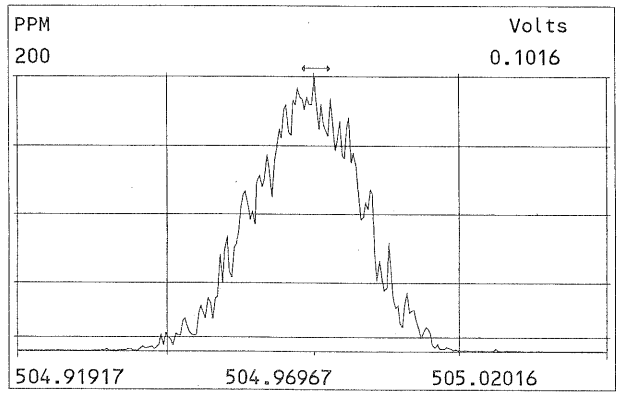


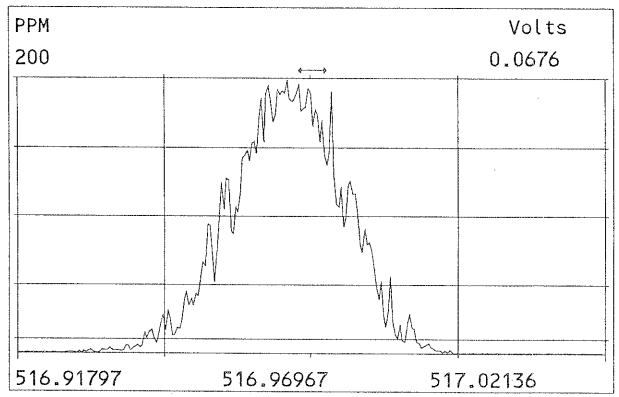












USEPA - ITD

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: 28SEP16Y Sam:23 Analysis Date: 29-SEP-16 12:04:13

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.13	2.66-3.60	y	49.2	37.5 - 62.5
PCB-3	M/M+2	3.11	2.66-3.60	y	50.4	37.5 - 62.5
PCB-4	M/M+2	1.54	1.33-1.79	y	49.3	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	50.2	37.5 - 62.5
PCB-19	M/M+2	1.03	0.88-1.20	y	46.9	37.5 - 62.5
PCB-37	M/M+2	1.03	0.88-1.20	y	50.5	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	51.4	37.5 - 62.5
PCB-77	M/M+2	0.76	0.65-0.89	y	49.5	37.5 - 62.5
PCB-81	M/M+2	0.77	0.65-0.89	y	50.2	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	51.4	37.5 - 62.5
PCB-105	M+2/M+4	1.57	1.32-1.78	y	49.7	37.5 - 62.5
PCB-114	M+2/M+4	1.55	1.32-1.78	y	49.5	37.5 - 62.5
PCB-118	M+2/M+4	1.55	1.32-1.78	y	49.8	37.5 - 62.5
PCB-123	M+2/M+4	1.52	1.32-1.78	y	50.4	37.5 - 62.5
PCB-126	M+2/M+4	1.56	1.32-1.78	y	51.6	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	48.9	37.5 - 62.5
PCB-156	M+2/M+4	1.24	1.05-1.43	y	49.6	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	1.23	1.05-1.43	y	50.1	37.5 - 62.5
PCB-169	M+2/M+4	1.24	1.05-1.43	y	48.1	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	52.5	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	49.8	37.5 - 62.5
PCB-202	M+2/M+4	0.87	0.76-1.02	y	48.1	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	53.5	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	53.7	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	52.1	37.5 - 62.5
PCB-209	M+4/M+6	1.17	0.99-1.33	y	48.2	37.5 - 62.5

Analyst: _____ Date: 9/30/16

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: 28SEP16Y Sam:23 Analysis Date: 29-SEP-16 12:04:13

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.16	2.66-3.60	y	97.8	50.0 - 145
13C-PCB-3	M/M+2	3.21	2.66-3.60	y	100	50.0 - 145
13C-PCB-4	M/M+2	1.58	1.33-1.79	y	94.7	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	104	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	93.7	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	105	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	96.5	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	109	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	105	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	1.62	1.32-1.78	y	105	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	106	50.0 - 145
13C-PCB-118	M+2/M+4	1.60	1.32-1.78	y	104	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	108	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	107	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	98.0	50.0 - 145
13C-PCB-156	M+2/M+4	1.25	1.05-1.43	y	106	50.0 - 145
13C-PCB-157	M+2/M+4	1.24	1.05-1.43	y	102	50.0 - 145
13C-PCB-167	M+2/M+4	1.24	1.05-1.43	y	101	50.0 - 145
13C-PCB-169	M+2/M+4	1.22	1.05-1.43	y	109	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	88.8	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	97.7	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	101	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	90.7	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	88.4	50.0 - 145
13C-PCB-208	M+2/M+4	0.79	0.65-0.89	y	101	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	91.3	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	104	65.0 - 135
13C-PCB-111	M+2/M+4	1.58	1.32-1.78	y	103	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	99.9	75.0 - 125

Analyst: _____ Date: 9/30/16

FAL ID: ST092816Y3 Filename: 28SEP16Y Sam:23 Acquired: 29-SEP-16 12:04:13 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R160816B ConCal: ST092816Y2 EndCal: ST092816Y3
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.96e+07	3.13 y	14:29	1.05	49.2		2.50	-	-	*	-
13C-PCB-1	1.35e+08	3.16 y	14:28	1.14	97.8		2.50				97.8
PCB-3	7.11e+07	3.11 y	16:55	1.05	50.4		2.50	-	-	*	-
13C-PCB-3	1.35e+08	3.21 y	16:54	1.11	100		2.50				100
PCB-4	4.34e+07	1.54 y	18:09	1.14	49.3		2.50	-	-	*	-
13C-PCB-4	7.75e+07	1.58 y	18:08	0.68	94.7		2.50				94.7
PCB-15	7.03e+07	1.57 y	23:40	1.09	50.2		2.50	-	-	*	-
13C-PCB-15	1.28e+08	1.59 y	23:39	1.02	104		2.50				104
PCB-19	3.80e+07	1.03 y	22:02	1.16	46.9		2.50	-	-	*	-
13C-PCB-19	6.98e+07	1.07 y	22:01	0.61	93.7		2.50				93.7
13C-PCB-9	1.21e+08	1.59 y	19:49	-	88.6		2.50				
PCB-37	6.03e+07	1.03 y	30:18	1.14	50.5		2.50	-	-	*	-
13C-PCB-37	1.05e+08	1.07 y	30:17	1.38	105		2.50				105
PCB-54	4.74e+07	0.78 y	25:35	1.05	51.4		2.50	-	-	*	-
13C-PCB-54	8.78e+07	0.80 y	25:33	1.25	96.5		2.50				96.5
PCB-104	3.55e+07	1.59 y	30:01	1.14	51.4		2.50	-	-	*	-
13C-PCB-104	6.04e+07	1.61 y	29:59	0.91	91.3		2.50				91.3
13C-PCB-28	1.12e+08	1.07 y	26:37	1.48	104		2.50				104
13C-PCB-52	7.27e+07	0.79 y	28:54	-	87.2		2.50				
PCB-81	4.83e+07	0.77 y	36:05	1.14	50.2		2.50	-	-	*	-
13C-PCB-81	8.41e+07	0.80 y	36:03	1.27	105		2.50				105
PCB-77	4.74e+07	0.76 y	36:37	1.10	49.5		2.50	-	-	*	-
13C-PCB-77	8.69e+07	0.81 y	36:36	1.27	109		2.50				109
PCB-155	3.64e+07	1.28 y	34:11	1.11	48.9		2.50	-	-	*	-
13C-PCB-155	6.71e+07	1.28 y	34:08	1.09	98.0		2.50				98.0
13C-PCB-111	8.15e+07	1.58 y	36:13	1.25	103		2.50				103
13C-PCB-101	6.30e+07	1.59 y	34:35	-	86.3		2.50				
PCB-123	4.01e+07	1.52 y	38:17	1.05	50.4		2.50	-	-	*	-
13C-PCB-123	7.55e+07	1.58 y	38:15	1.20	108		2.50				108
PCB-118	4.20e+07	1.55 y	38:27	1.07	49.8		2.50	-	-	*	-
13C-PCB-118	7.92e+07	1.60 y	38:25	1.31	104		2.50				104
PCB-114	4.06e+07	1.55 y	39:04	1.08	49.5		2.50	-	-	*	-
13C-PCB-114	7.57e+07	1.61 y	39:03	1.23	106		2.50				106
PCB-105	4.03e+07	1.57 y	39:52	1.08	49.7		2.50	-	-	*	-
13C-PCB-105	7.51e+07	1.62 y	39:51	1.24	105		2.50				105
PCB-126	4.01e+07	1.56 y	41:59	1.07	51.6		2.50	-	-	*	-
13C-PCB-126	7.27e+07	1.59 y	41:57	1.17	107		2.50				107
PCB-167	3.57e+07	1.23 y	43:21	0.98	50.1		2.50	-	-	*	-
13C-PCB-167	7.27e+07	1.24 y	43:20	1.24	101		2.50				101
PCB-156	3.63e+07	1.24 y	44:35	1.01	49.6		2.50	-	-	*	-
13C-PCB-156	7.23e+07	1.25 y	44:34	1.18	106		2.50				106
PCB-157	3.51e+07	1.25 y	44:50	0.96	50.2		2.50	-	-	*	-
13C-PCB-157	7.25e+07	1.24 y	44:48	1.22	102		2.50				102
PCB-169	3.35e+07	1.24 y	46:42	1.00	48.1		2.50	-	-	*	-
13C-PCB-169	6.97e+07	1.22 y	46:42	1.11	109		2.50				109
PCB-188	3.61e+07	1.05 y	39:39	1.09	52.5		2.50	-	-	*	-
13C-PCB-188	6.29e+07	1.09 y	39:37	1.22	88.8		2.50				88.8
PCB-189	3.11e+07	1.06 y	48:24	1.14	49.8		2.50	-	-	*	-
13C-PCB-189	5.48e+07	1.07 y	48:22	0.97	97.7		2.50				97.7
PCB-202	2.59e+07	0.87 y	44:45	1.05	48.1		2.50	-	-	*	-
13C-PCB-202	5.11e+07	0.91 y	44:45	0.88	101		2.50				101
13C-PCB-178	4.46e+07	1.06 y	42:15	0.77	99.9		2.50				99.9
13C-PCB-138	5.79e+07	1.23 y	41:29	-	83.0		2.50				

FAL ID: ST092816Y3 Filename: 28SEP16Y Sam:23 Acquired: 29-SEP-16 12:04:13 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R160816B ConCal: ST092816Y2 EndCal: ST092816Y3
Results: GC Column: DB1 Amount: 1.000

PCB-205	2.68e+07	0.89	y	50:04	1.02	53.5	2.50	-	-	*	-
13C-PCB-205	4.92e+07	0.90	y	50:02	1.38	90.7	2.50				90.7
PCB-208	2.53e+07	1.36	y	49:07	0.93	52.1	2.50	-	-	*	-
13C-PCB-208	5.22e+07	0.79	y	49:07	1.31	101	2.50				101
PCB-206	1.77e+07	1.36	y	51:14	0.94	53.7	2.50	-	-	*	-
13C-PCB-206	3.52e+07	0.80	y	51:14	1.01	88.4	2.50				88.4
PCB-209	2.55e+07	1.17	y	52:26	1.10	48.2	2.50	-	-	*	-
13C-PCB-209	4.80e+07	1.19	y	52:25	1.34	91.3	2.50				91.3
13C-PCB-194	3.93e+07	0.92	y	49:47	-	78.0	2.50				

Analyst: _____ Date: 9/30/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:28SEP16Y Instrument: FAL4 GC: DB1 Experiment:1668PCB

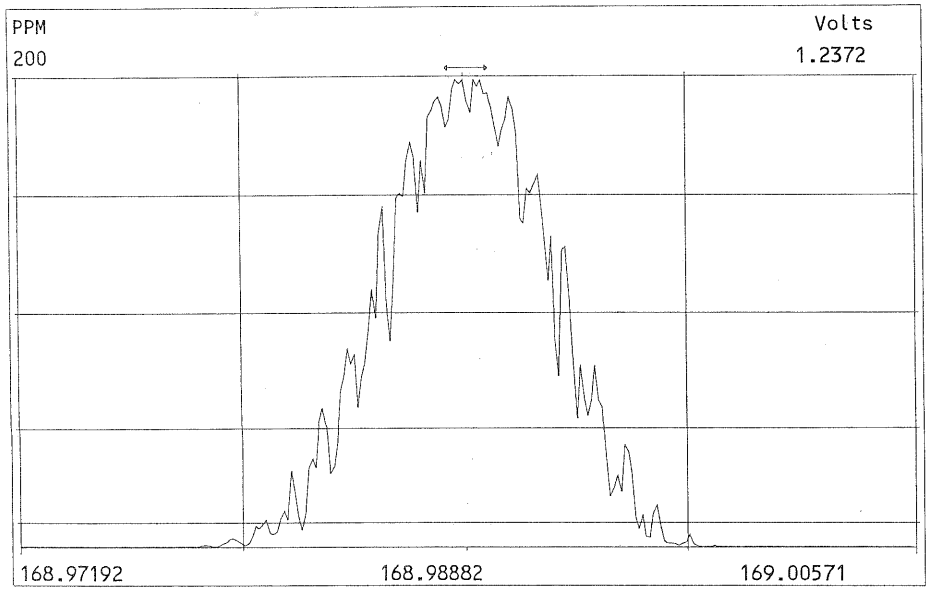
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
28SEP16Y	1	ST092816Y1	1668 CS3 R160816B	28-SEP-16 15:21:37	ST092816Y1	ST092816Y2	BS
28SEP16Y	2	SS092816Y1	Daily 209 160711B	28-SEP-16 16:18:07	ST092816Y1	ST092816Y2	BS
28SEP16Y	3	03855-001-0001-OPR	OPR	28-SEP-16 17:14:39	ST092816Y1	ST092816Y2	BS
28SEP16Y	4	03857-001-0001-OPR	OPR	28-SEP-16 18:11:10	ST092816Y1	ST092816Y2	BS
28SEP16Y	5	03857-001-0001-MB	Method Blank	28-SEP-16 19:07:40	ST092816Y1	ST092816Y2	BS
28SEP16Y	6	10143-002-0001-SA	AA47757, FEG(Final Effluent-	28-SEP-16 20:04:09	ST092816Y1	ST092816Y2	BS
28SEP16Y	7	10145-002-0001-SA	E1609006C	28-SEP-16 21:00:39	ST092816Y1	ST092816Y2	BS
28SEP16Y	8	10147-001-0001-SA	LDW-BA-SC-ENR+AC-CA-CORE	28-SEP-16 21:57:08	ST092816Y1	ST092816Y2	BS
28SEP16Y	9	10147-002-0001-SA	LDW-BA-SC-ENR+AC-CB-CORE	28-SEP-16 22:53:36	ST092816Y1	ST092816Y2	BS
28SEP16Y	10	10147-003-0001-SA	LDW-BA-SC-ENR+AC-CC-CORE	28-SEP-16 23:50:04	ST092816Y1	ST092816Y2	BS
28SEP16Y	11	10147-006-0001-SA	LDW-BA-SC-ENR-CA-CORE	29-SEP-16 00:46:31	ST092816Y1	ST092816Y2	BS
28SEP16Y	12	10147-007-0001-SA	LDW-BA-SC-ENR-CB-CORE	29-SEP-16 01:42:58	ST092816Y1	ST092816Y2	BS
28SEP16Y	13	10147-008-0001-SA	LDW-BA-SC-ENR-CC-CORE	29-SEP-16 02:39:25	ST092816Y1	ST092816Y2	BS
28SEP16Y	14	SB092816Y1	Solvent Blank	29-SEP-16 03:35:53	ST092816Y1	ST092816Y2	BS
28SEP16Y	15	ST092816Y2	1668 CS3 R160816B	29-SEP-16 04:32:21	ST092816Y1	ST092816Y2	BS
28SEP16Y	16	SB092816Y2	Solvent Blank	29-SEP-16 05:28:51	ST092816Y2	ST092816Y3	BS
28SEP16Y	17	10147-011-0001-SA	LDW-BA-IN-ENR+AC-CA-CORE	29-SEP-16 06:25:19	ST092816Y2	ST092816Y3	BS
28SEP16Y	18	10147-012-0001-SA	LDW-BA-IN-ENR+AC-CB-CORE	29-SEP-16 07:21:46	ST092816Y2	ST092816Y3	BS
28SEP16Y	19	10147-013-0001-SA	LDW-BA-IN-ENR+AC-CC-CORE	29-SEP-16 08:18:15	ST092816Y2	ST092816Y3	BS
28SEP16Y	20	10147-015-0001-SA	LDW-BA-IN-ENR-CA-CORE	29-SEP-16 09:14:45	ST092816Y2	ST092816Y3	BS
28SEP16Y	21	10147-016-0001-SA	LDW-BA-IN-ENR-CB-CORE	29-SEP-16 10:11:13	ST092816Y2	ST092816Y3	BS
28SEP16Y	22	10147-017-0001-SA	LDW-BA-IN-ENR-CC-CORE	29-SEP-16 11:07:43	ST092816Y2	ST092816Y3	BS
28SEP16Y	23	ST092816Y3	1668 CS3 R160816B	29-SEP-16 12:04:13	ST092816Y2	ST092816Y3	BS

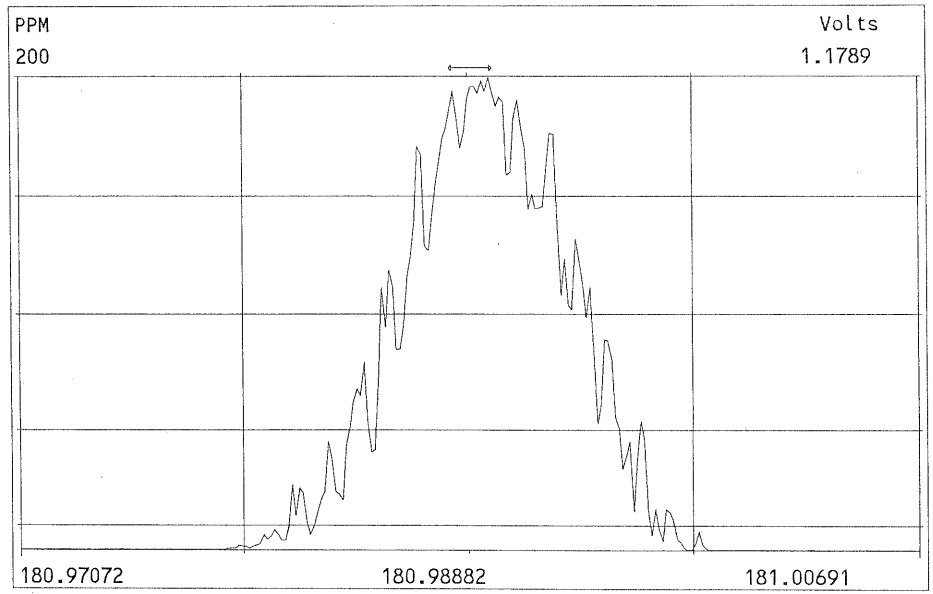
6 9/30/16

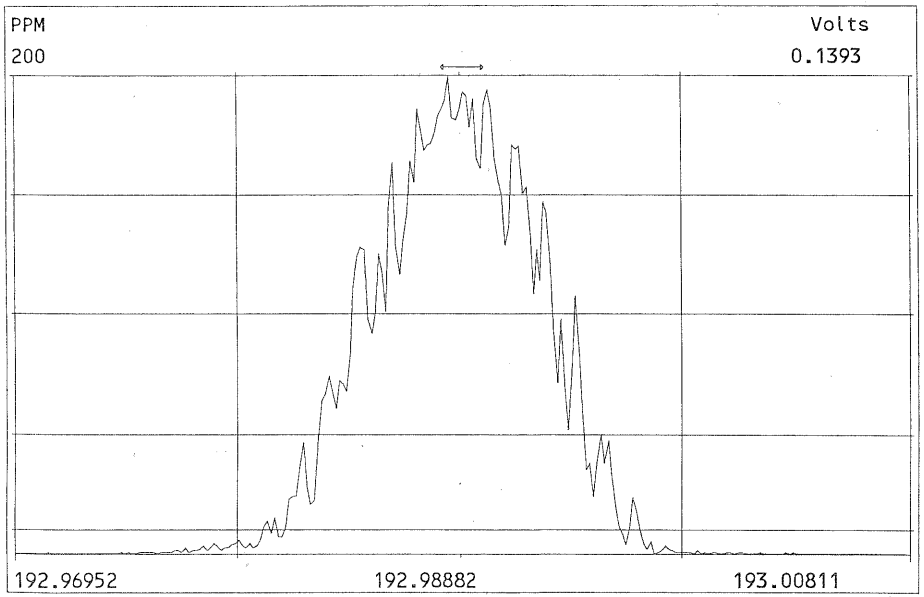
Data Backed Up:_____

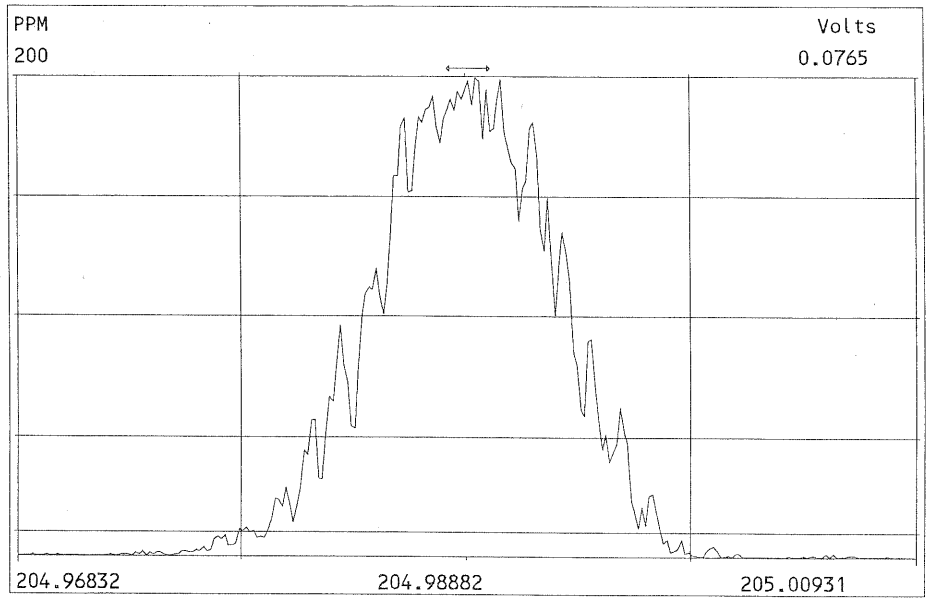
Date:_____

Peak Locate Examination:28-SEP-2016:15:18 File:28SEP16Y
Experiment:1668PCB Function:1 Reference:PFK

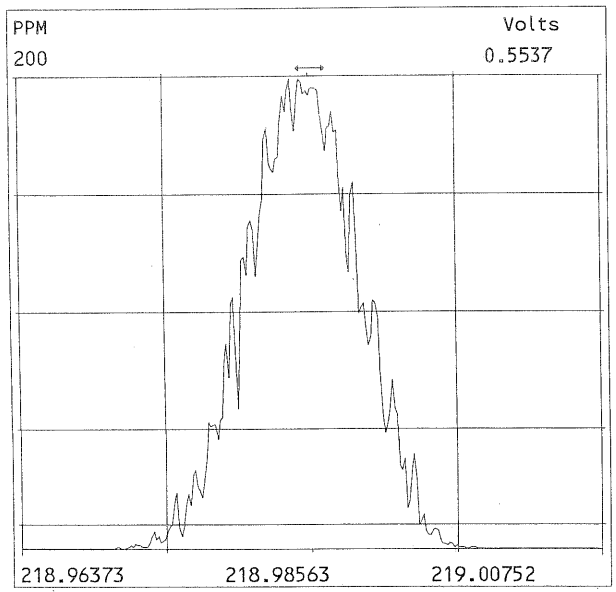


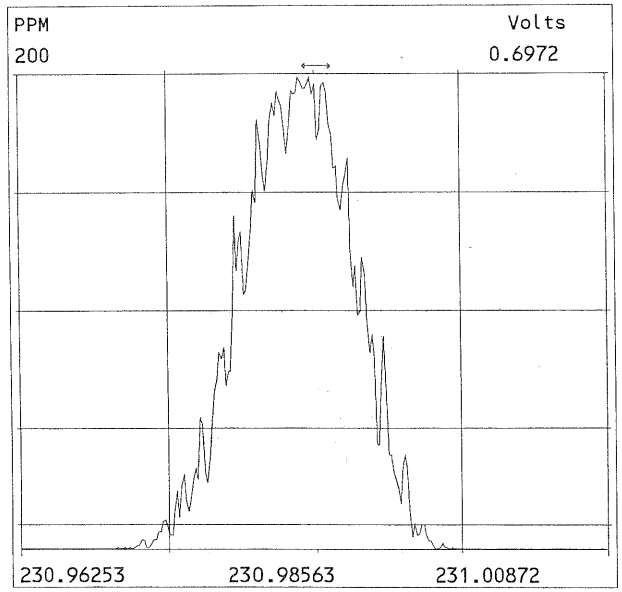


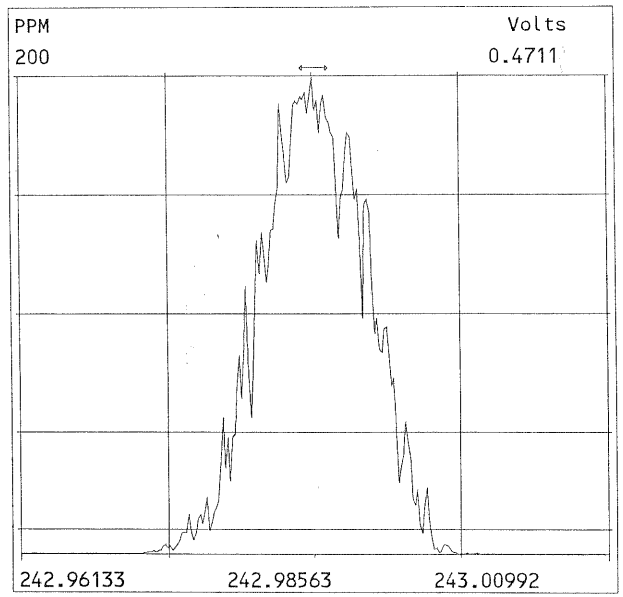


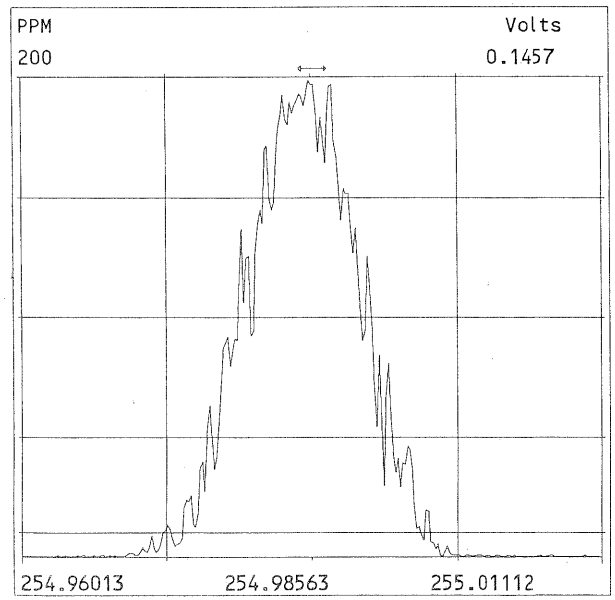


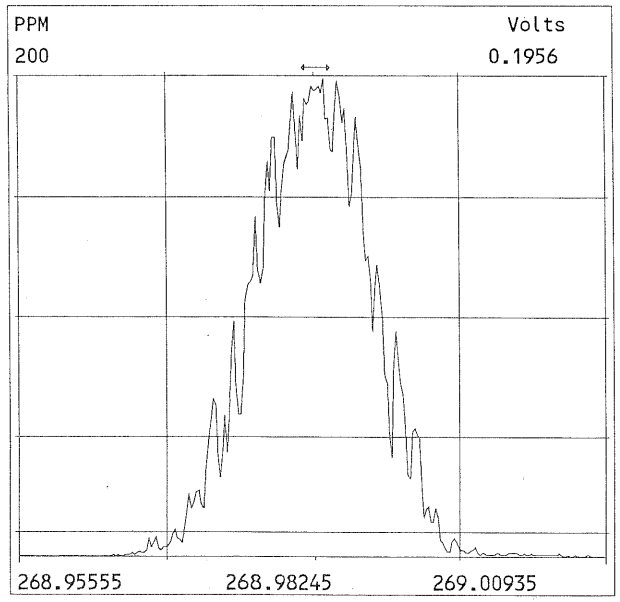
Peak Locate Examination:28-SEP-2016:15:19 File:28SEP16Y
Experiment:1668PCB Function:2 Reference:PFK

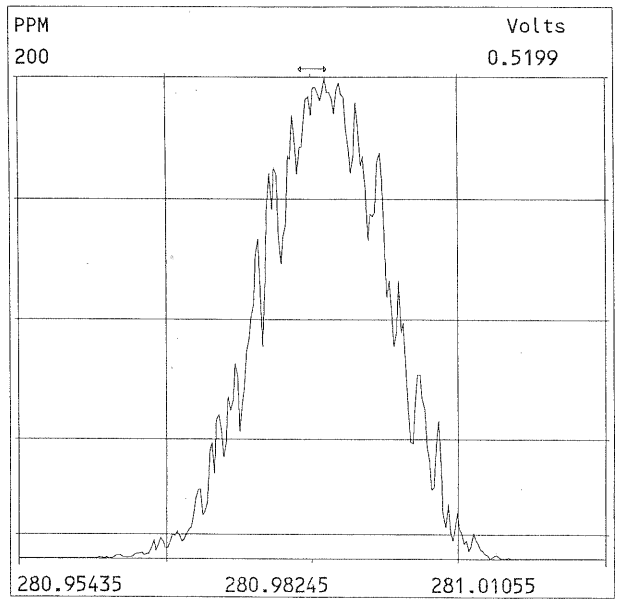




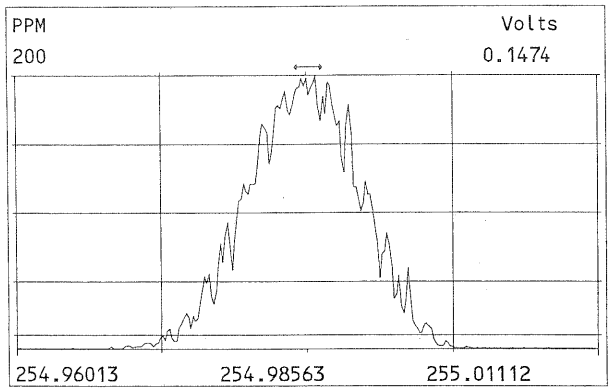


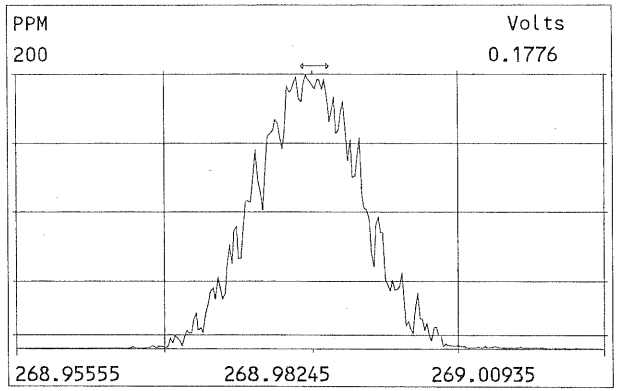


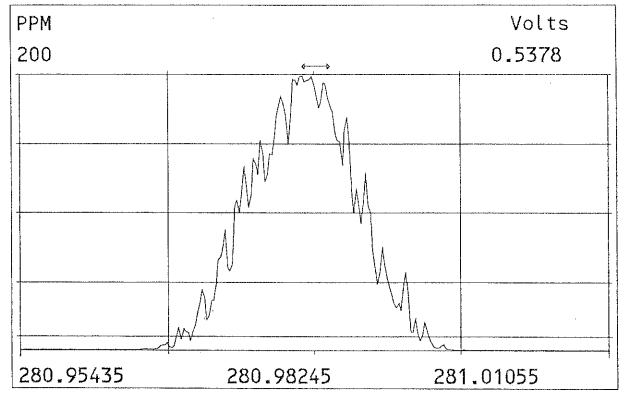


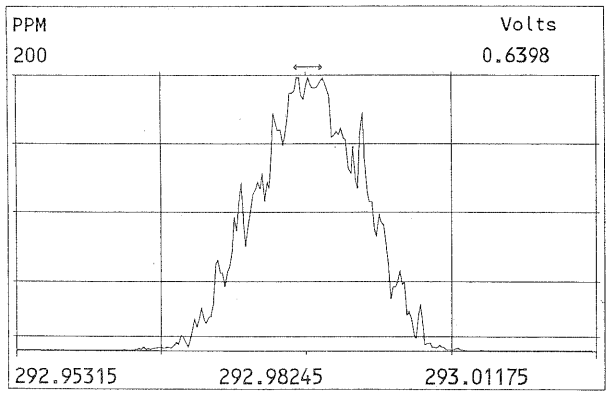


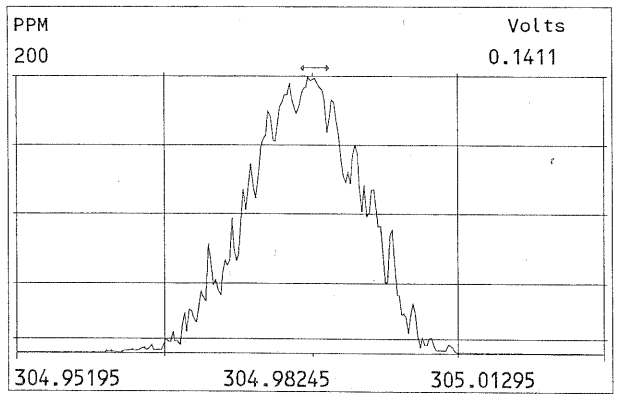
Peak Locate Examination:28-SEP-2016:15:19 File:28SEP16Y
Experiment:1668PCB Function:3 Reference:PFK

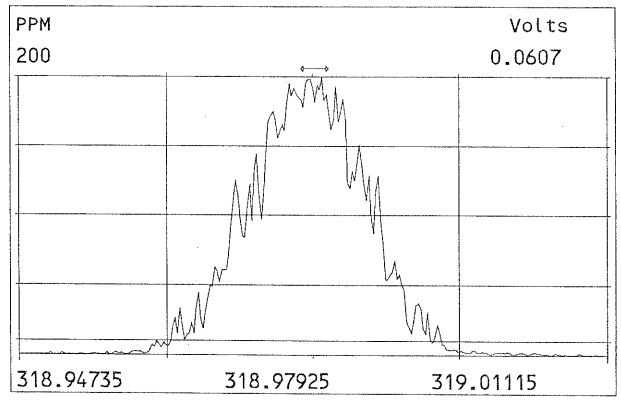


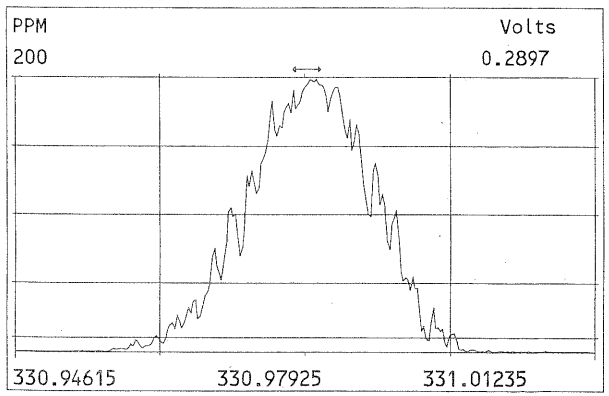


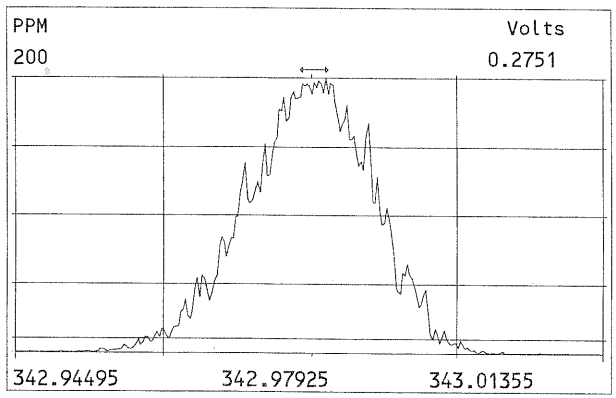




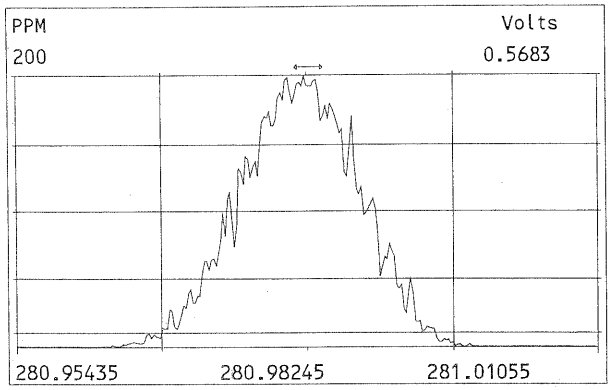


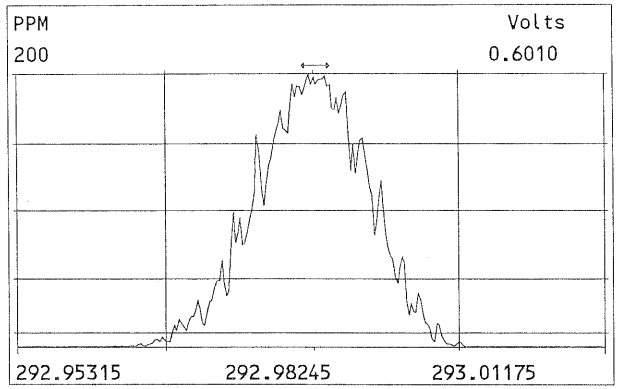


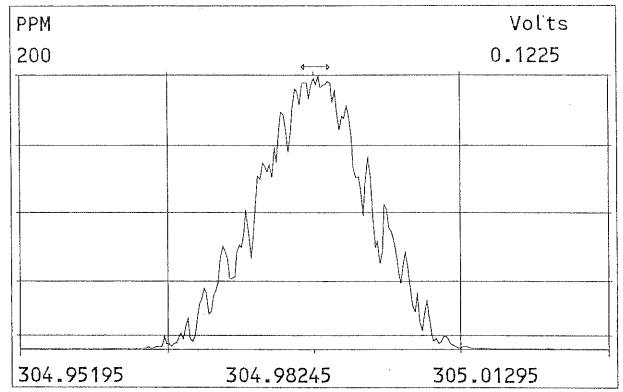


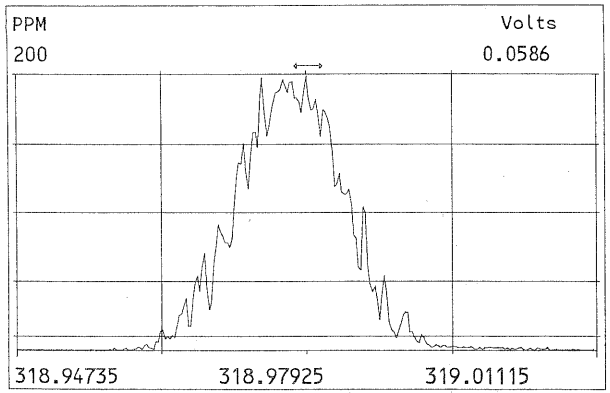


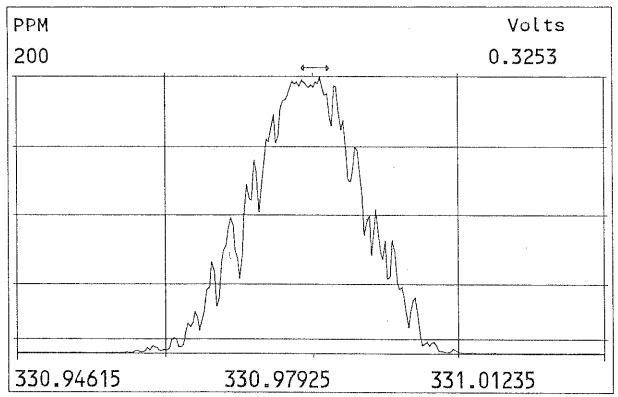
Peak Locate Examination:28-SEP-2016:15:20 File:28SEP16Y
Experiment:1668PCB Function:4 Reference:PFK

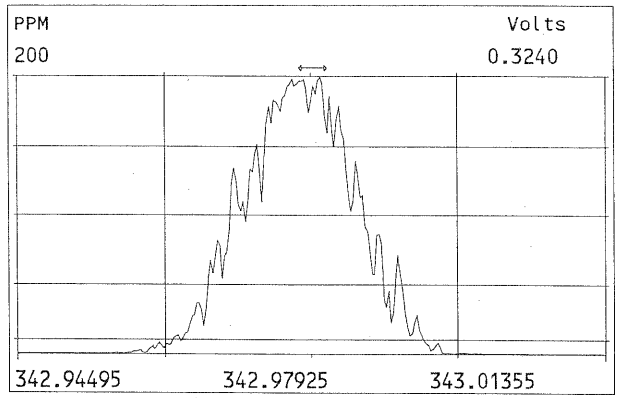


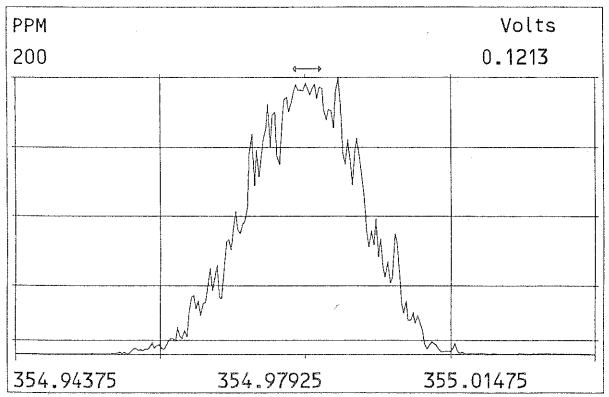


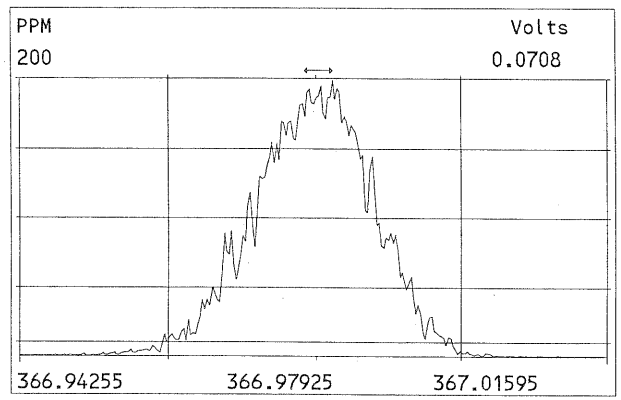


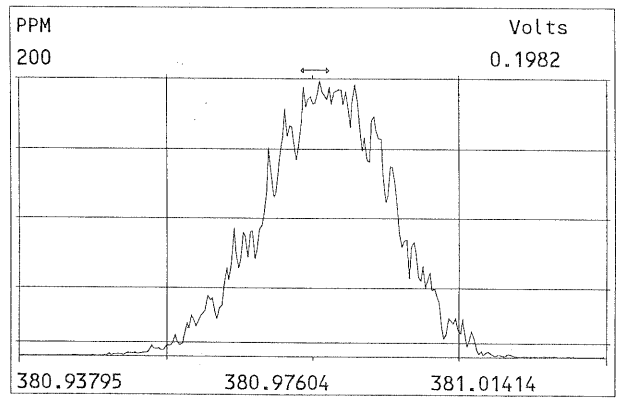




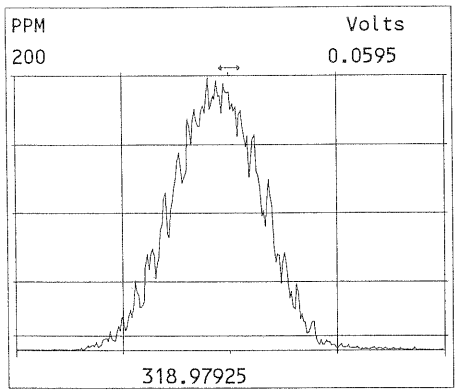


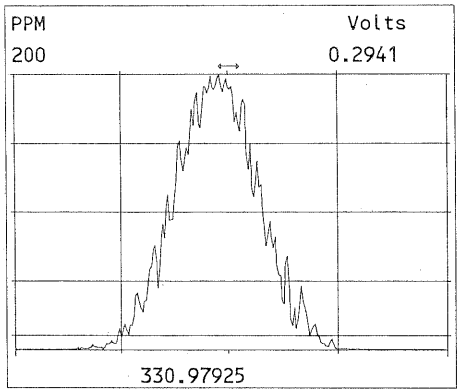


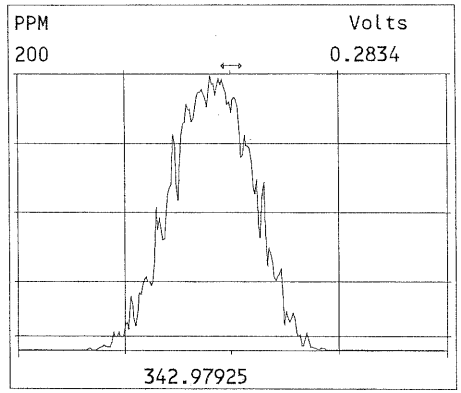


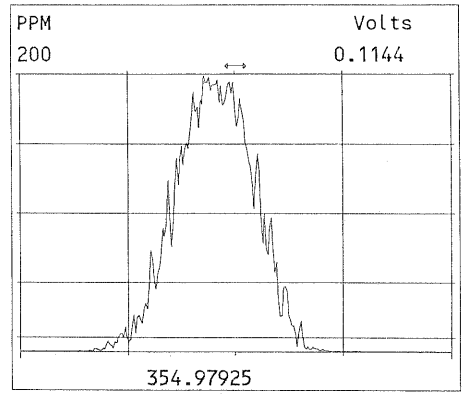


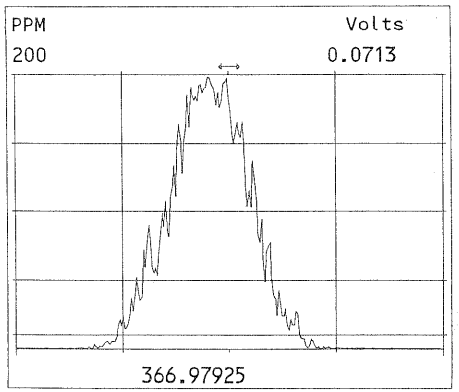
Peak Locate Examination:28-SEP-2016:15:20 File:28SEP16Y
Experiment:1668PCB Function:5 Reference:PFK

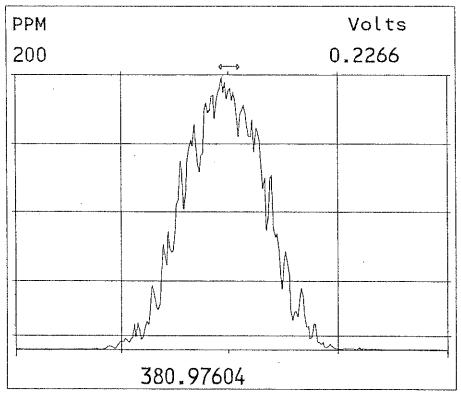


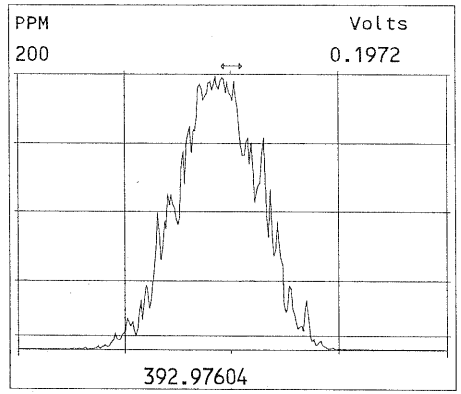


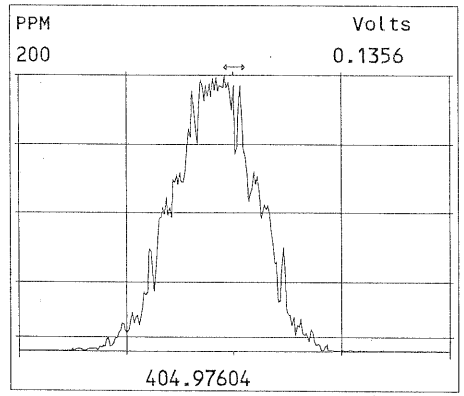


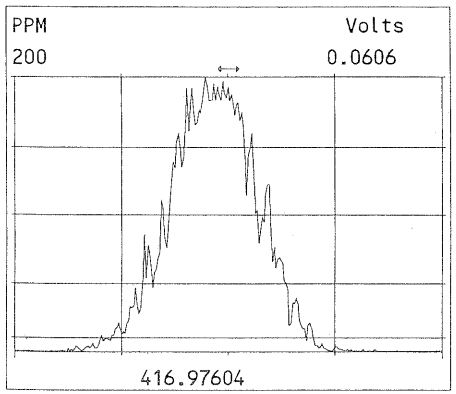


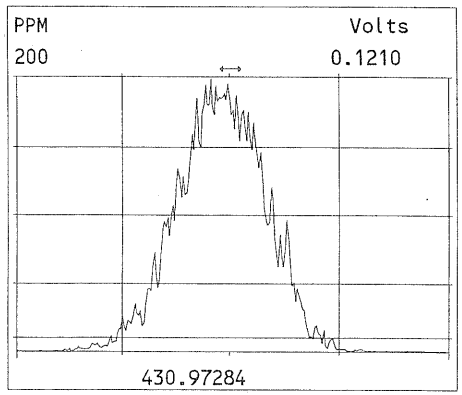


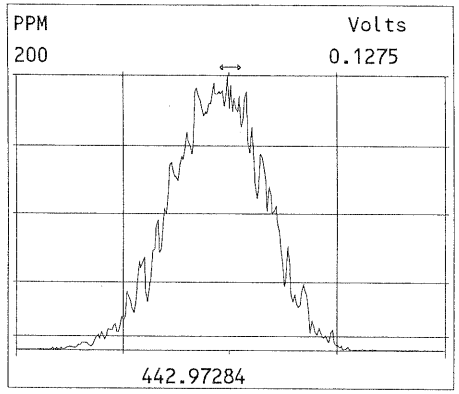




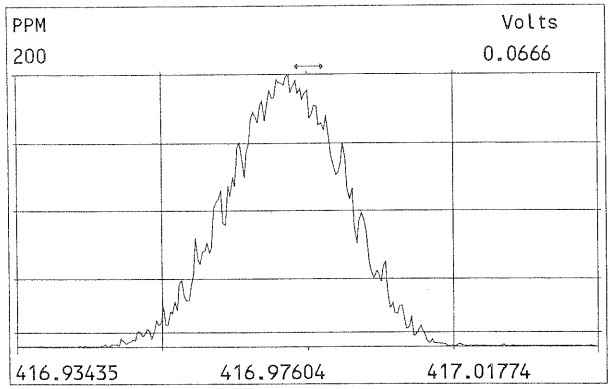


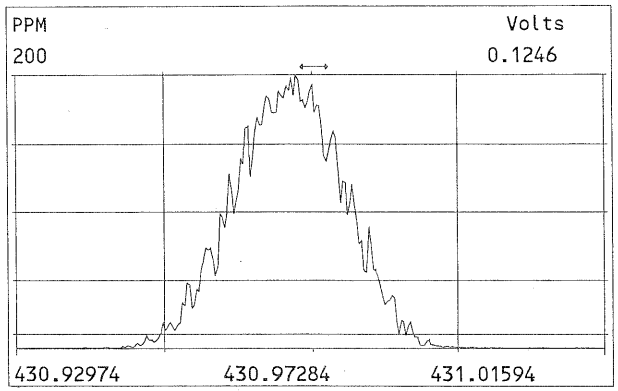


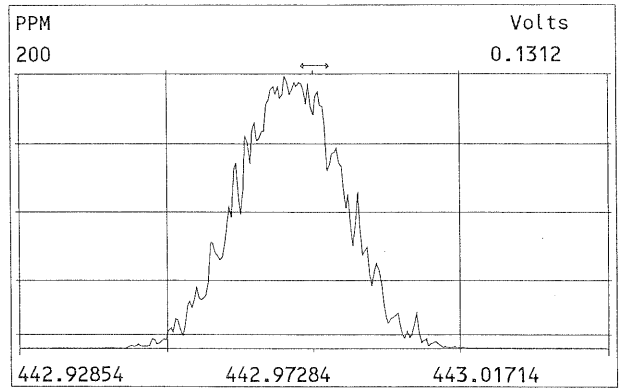


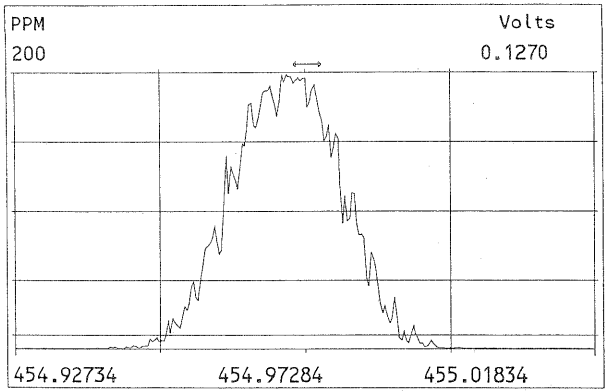


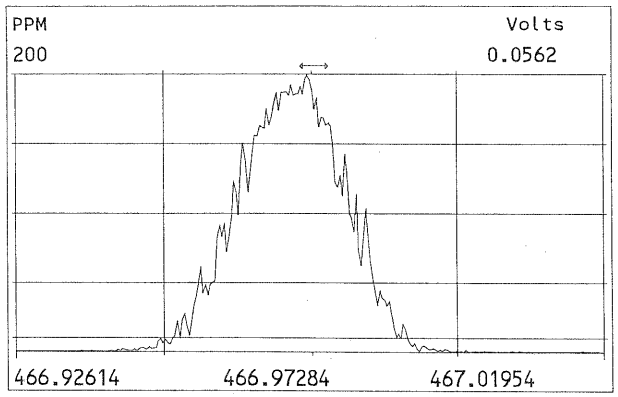
Peak Locate Examination:28-SEP-2016:15:21 File:28SEP16Y
Experiment:1668PCB Function:6 Reference:PFK

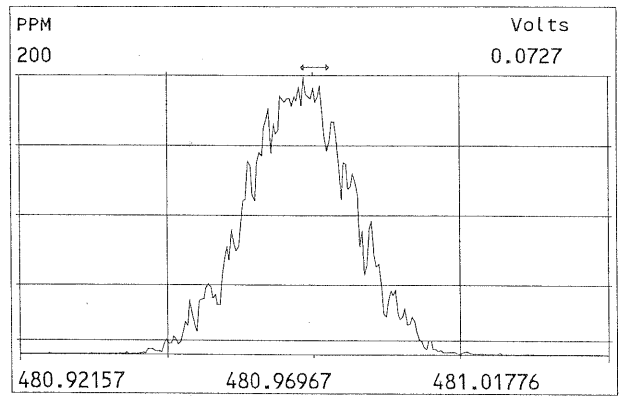


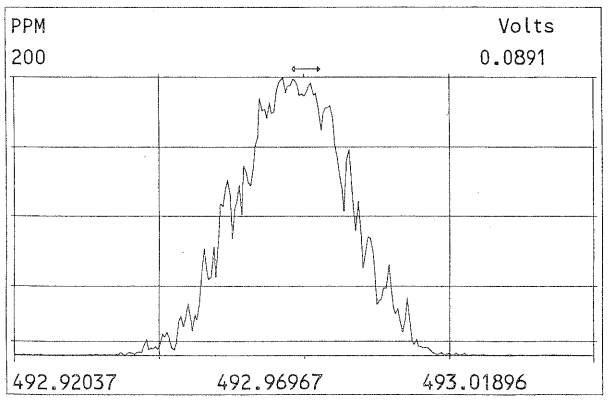


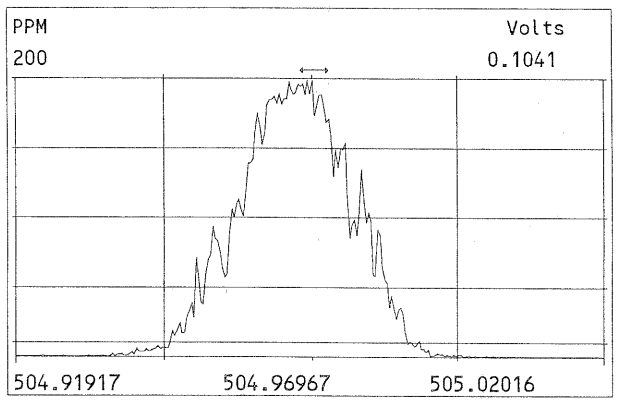


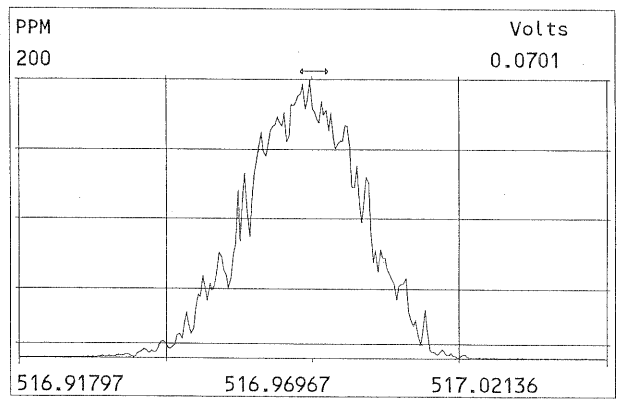




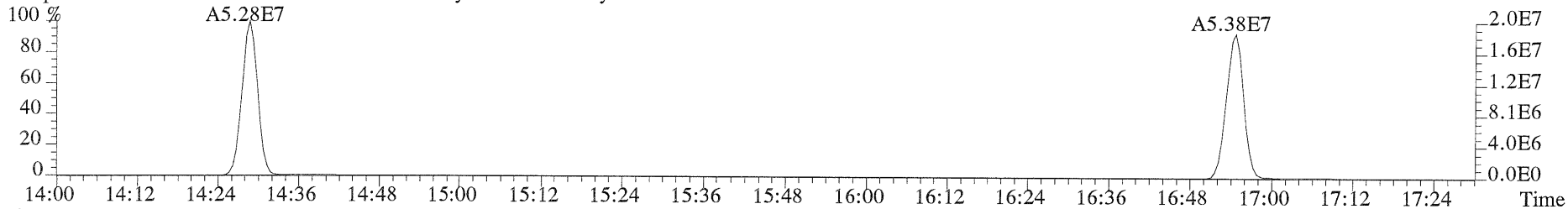




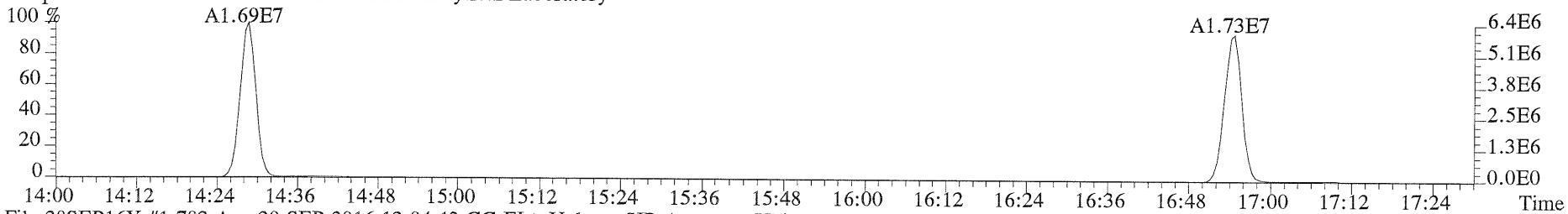




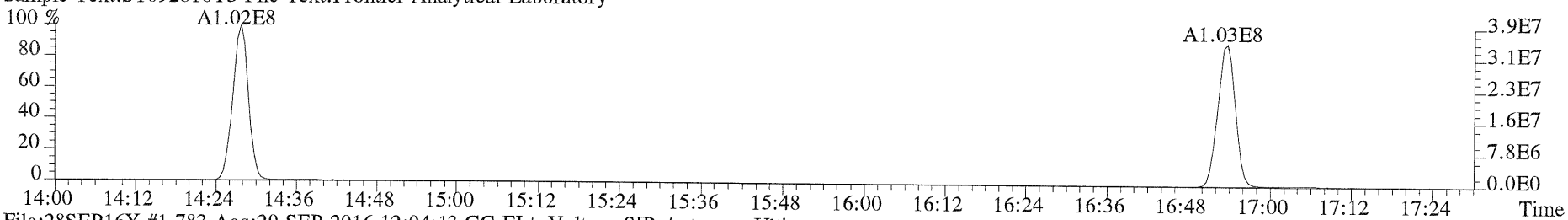
File:28SEP16Y #1-783 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:23 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



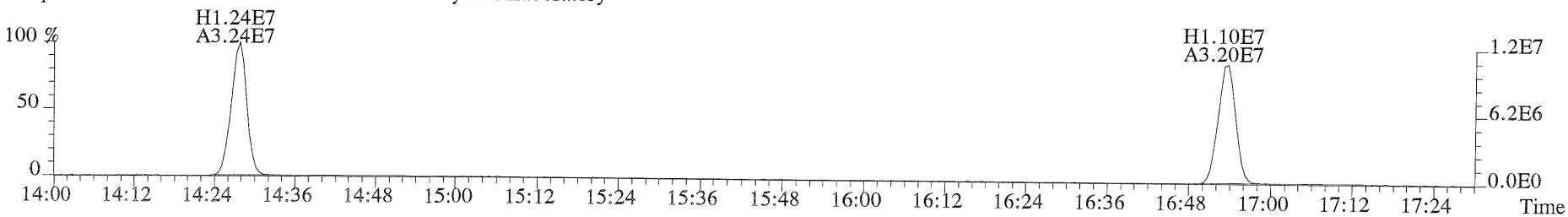
File:28SEP16Y #1-783 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:23 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



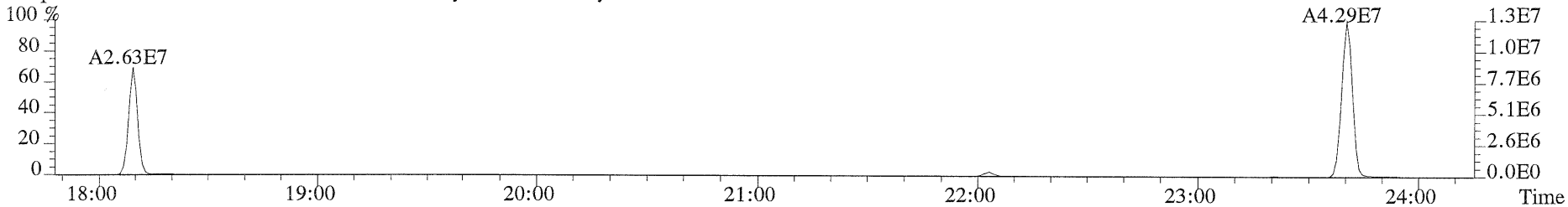
File:28SEP16Y #1-783 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:23 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



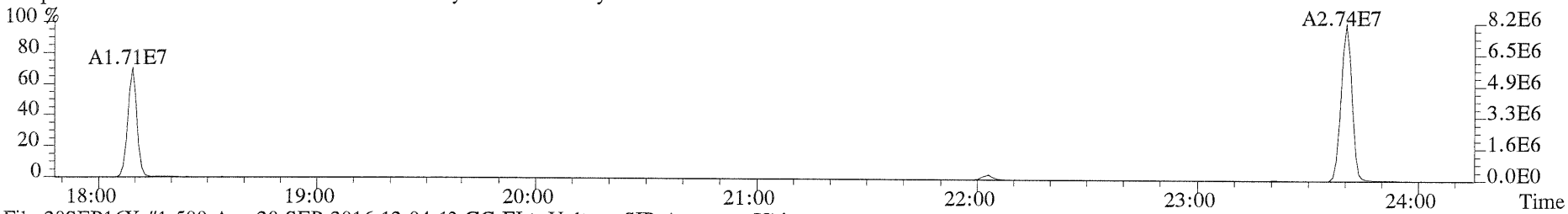
File:28SEP16Y #1-783 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:23 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



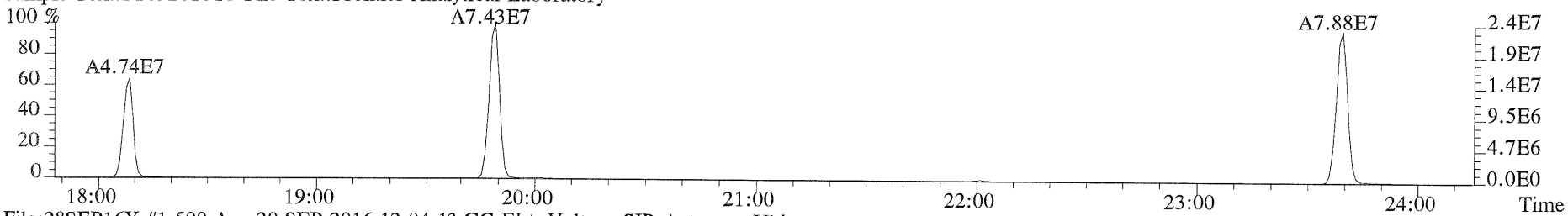
File:28SEP16Y #1-509 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:23 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



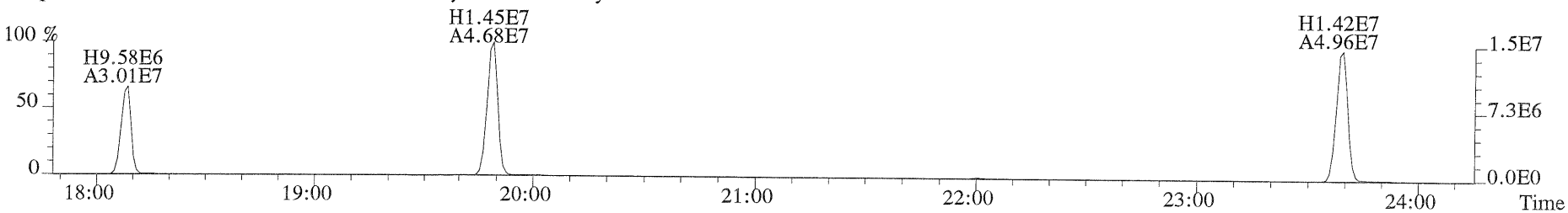
File:28SEP16Y #1-509 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:23 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



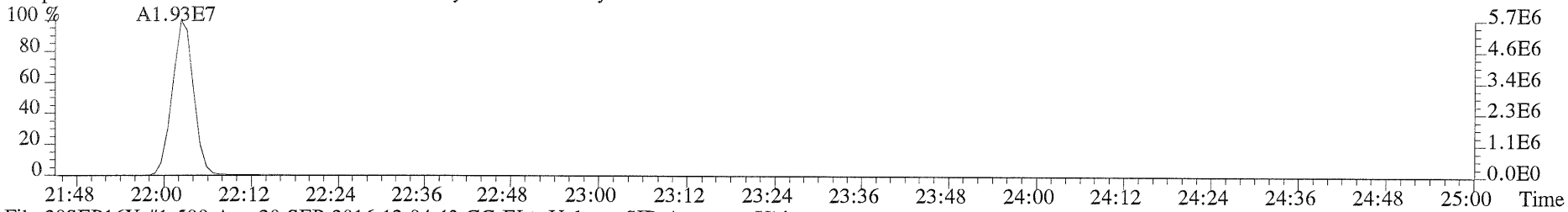
File:28SEP16Y #1-509 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:23 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



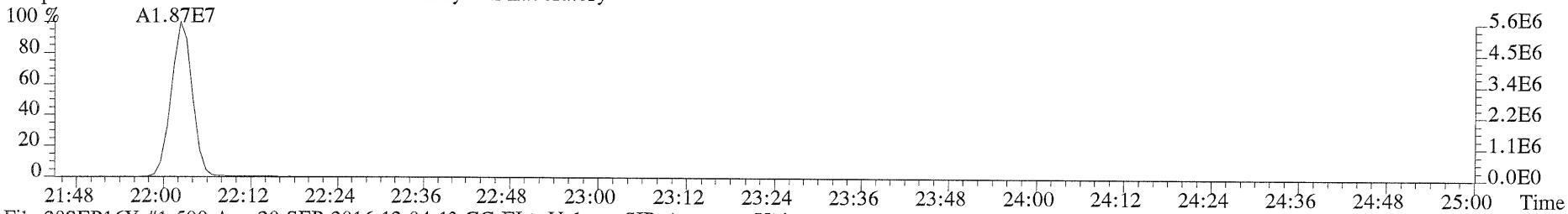
File:28SEP16Y #1-509 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:23 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



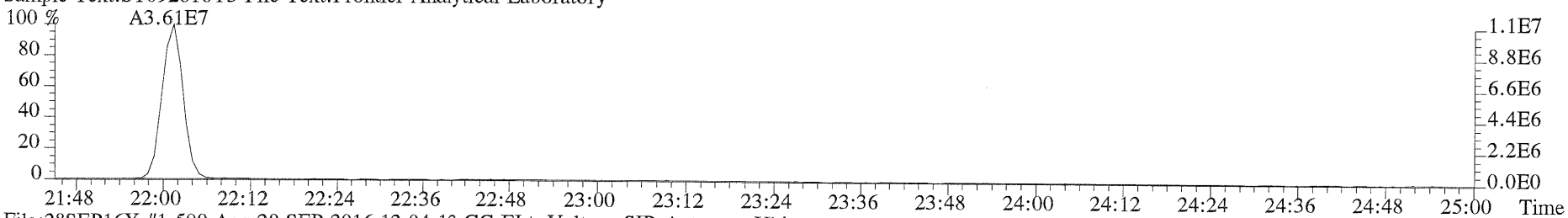
File:28SEP16Y #1-509 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:23 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



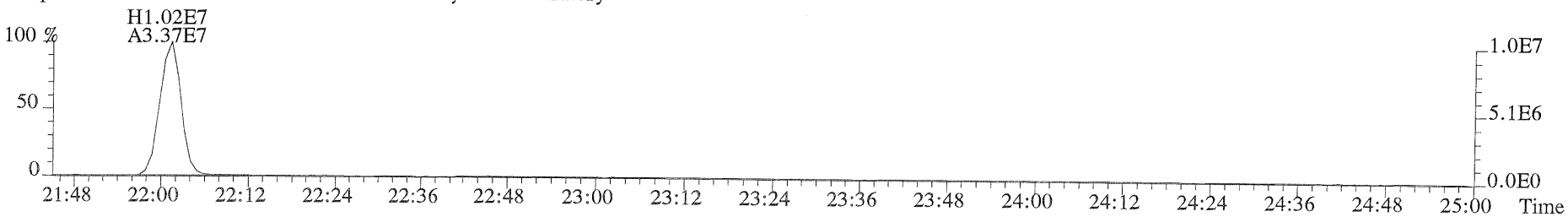
File:28SEP16Y #1-509 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:23 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



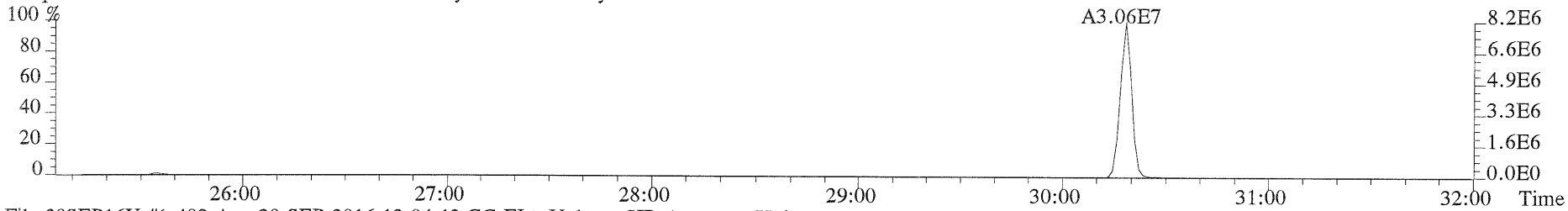
File:28SEP16Y #1-509 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:23 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



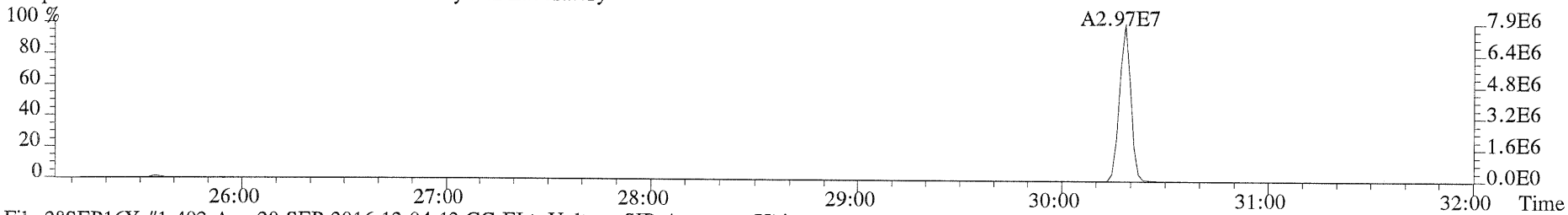
File:28SEP16Y #1-509 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:23 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



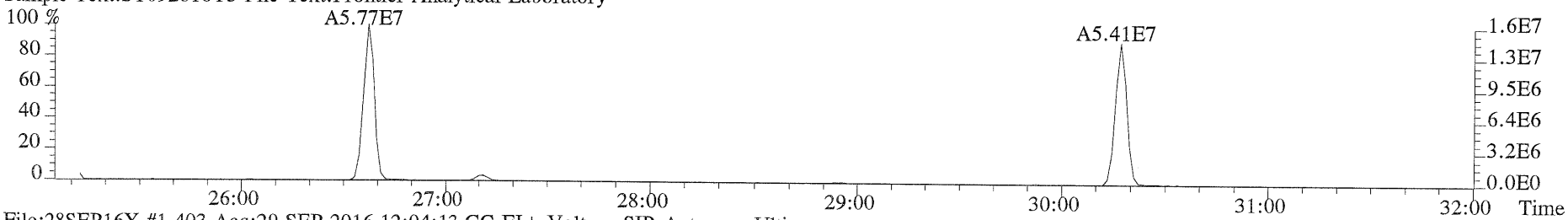
File:28SEP16Y #1-403 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:23 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



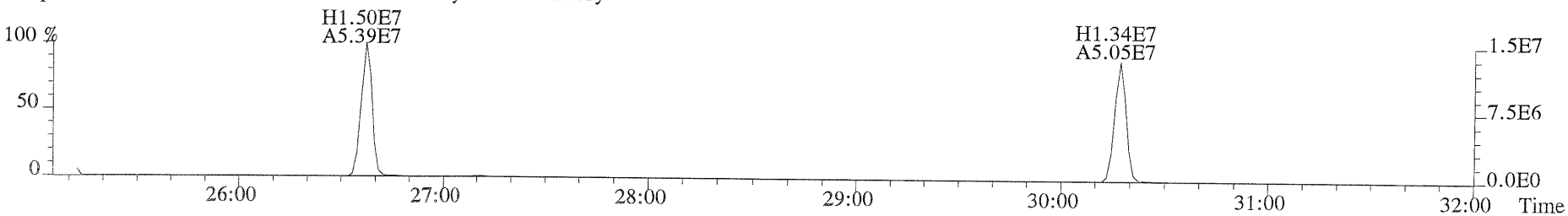
File:28SEP16Y #1-403 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:23 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



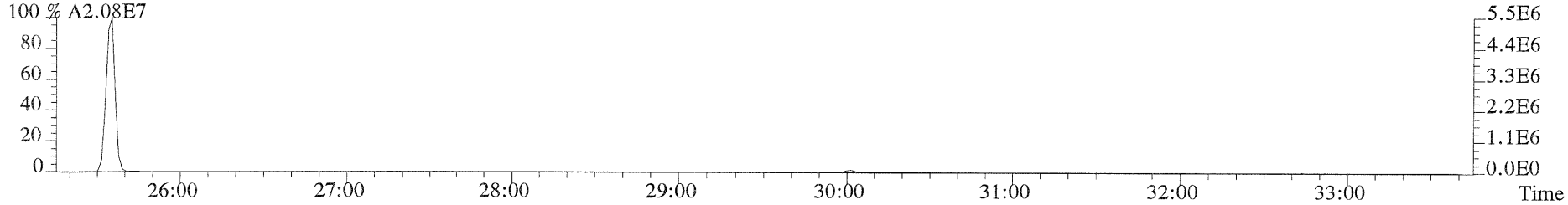
File:28SEP16Y #1-403 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:23 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



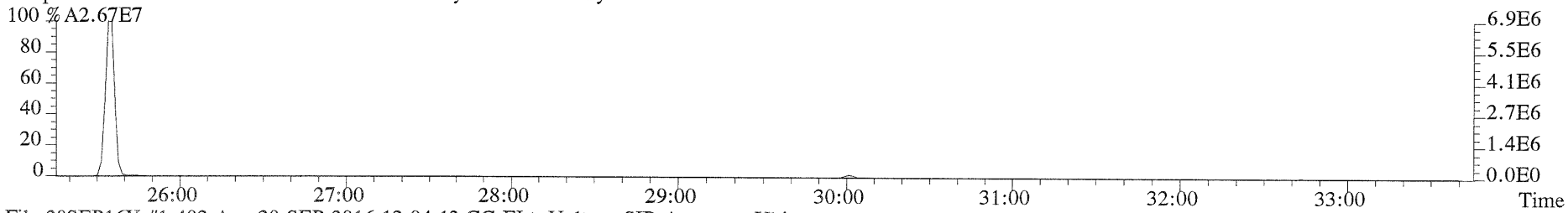
File:28SEP16Y #1-403 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:23 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



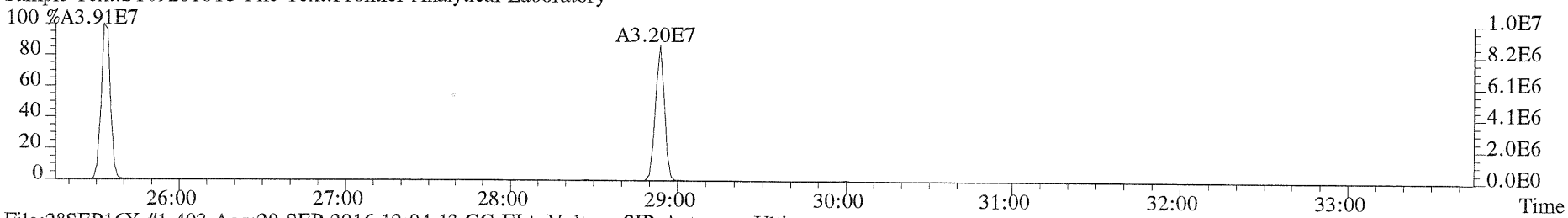
File:28SEP16Y #1-403 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:23 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



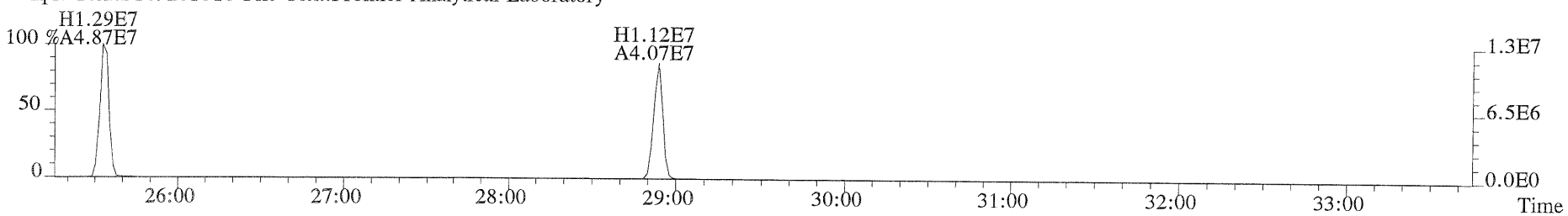
File:28SEP16Y #1-403 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:23 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



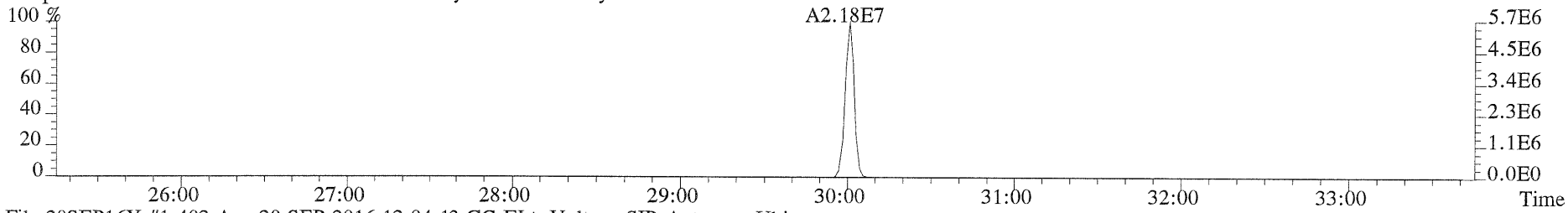
File:28SEP16Y #1-403 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:23 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



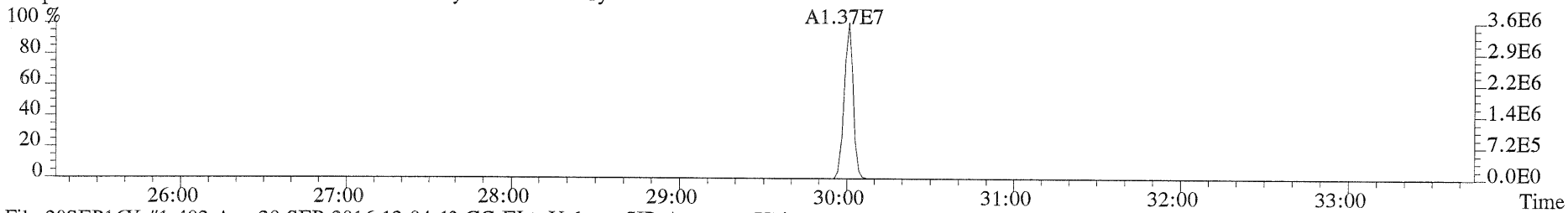
File:28SEP16Y #1-403 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:23 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



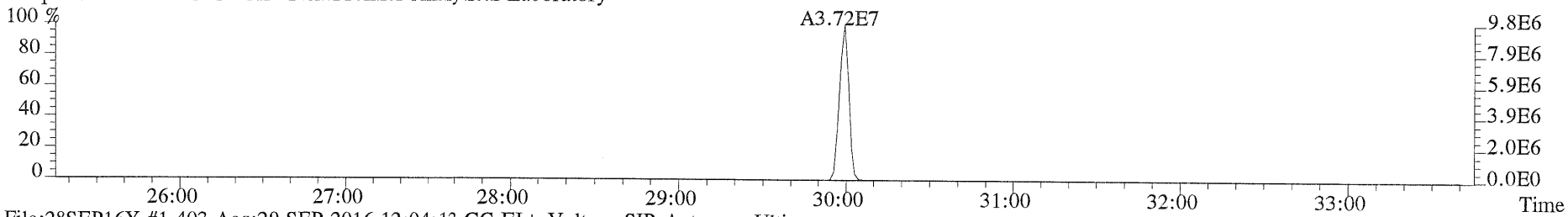
File:28SEP16Y #1-403 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:23 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



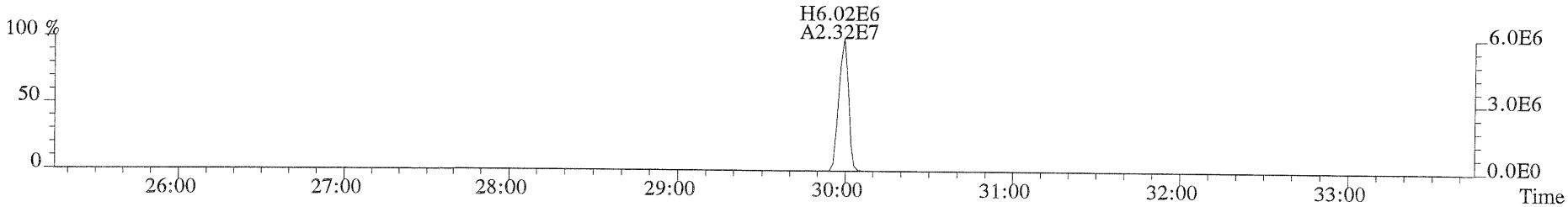
File:28SEP16Y #1-403 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:23 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



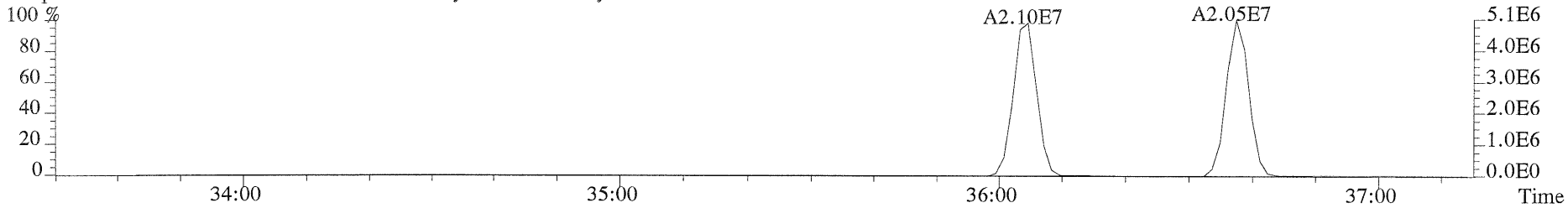
File:28SEP16Y #1-403 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:23 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



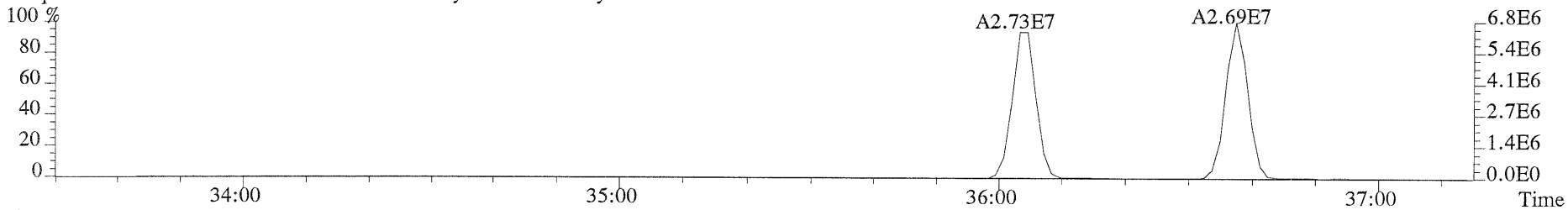
File:28SEP16Y #1-403 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:23 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



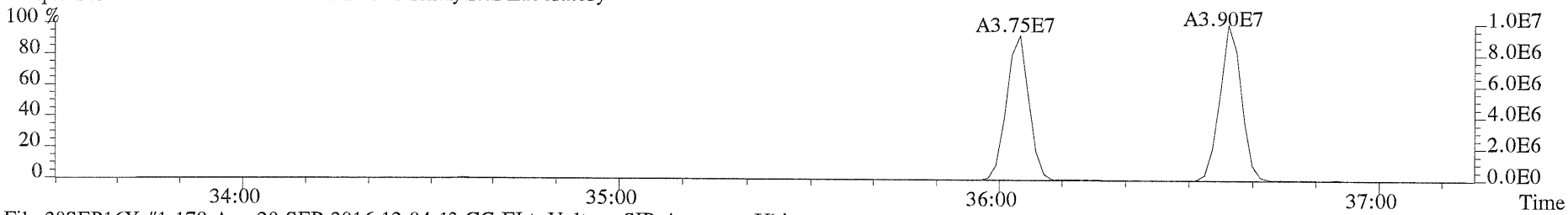
File:28SEP16Y #1-179 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:23 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



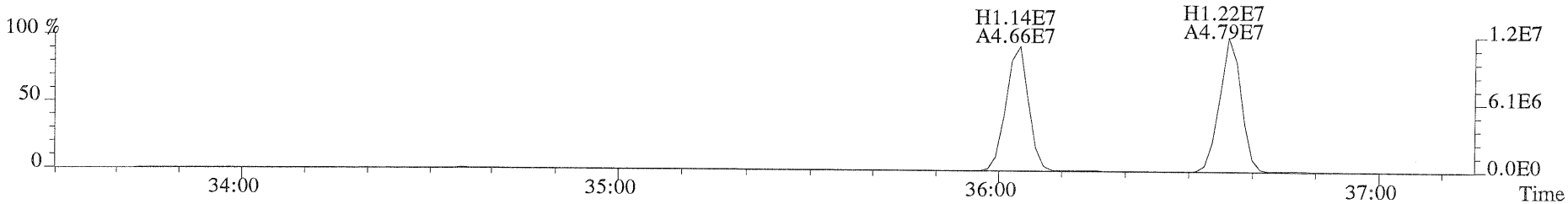
File:28SEP16Y #1-179 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:23 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



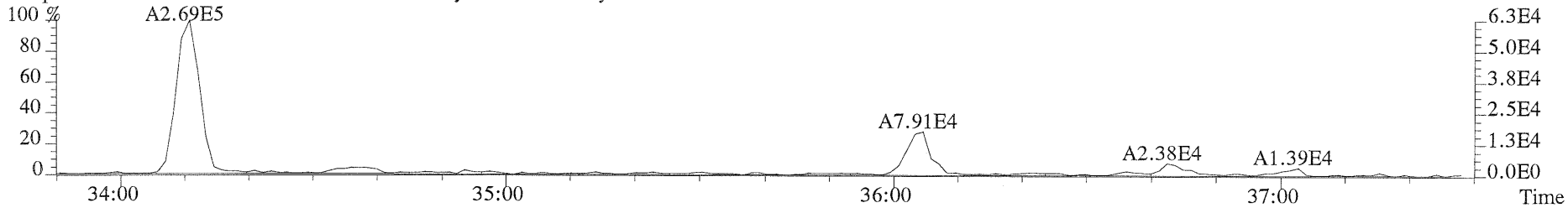
File:28SEP16Y #1-179 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:23 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



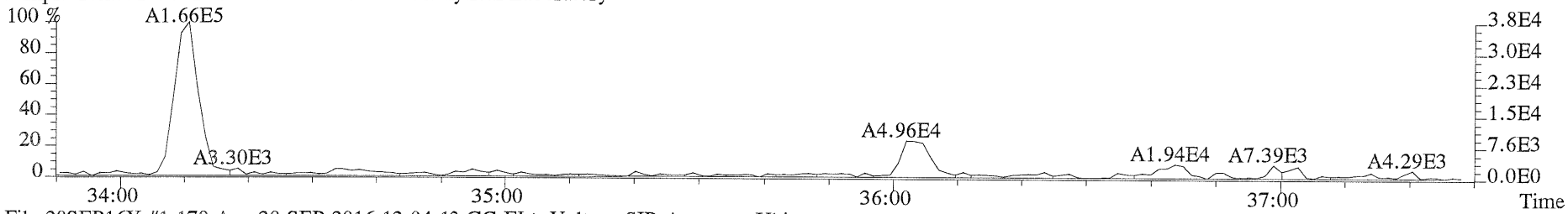
File:28SEP16Y #1-179 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:23 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



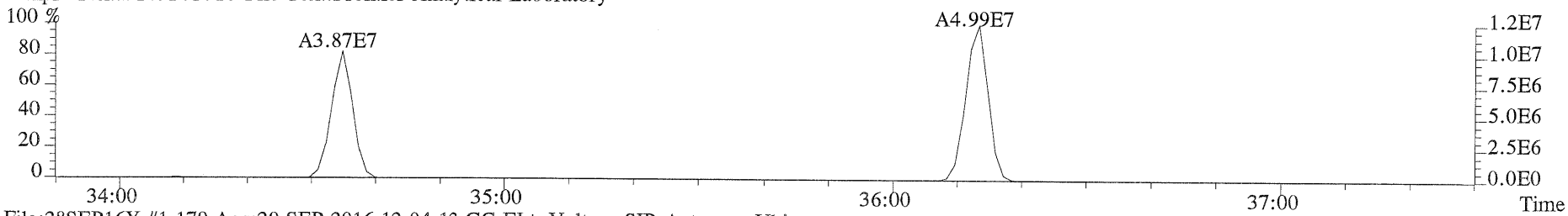
File:28SEP16Y #1-179 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:23 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



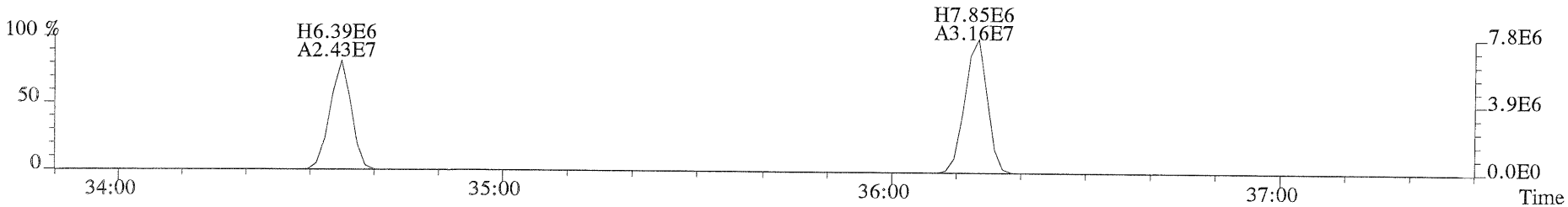
File:28SEP16Y #1-179 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:23 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



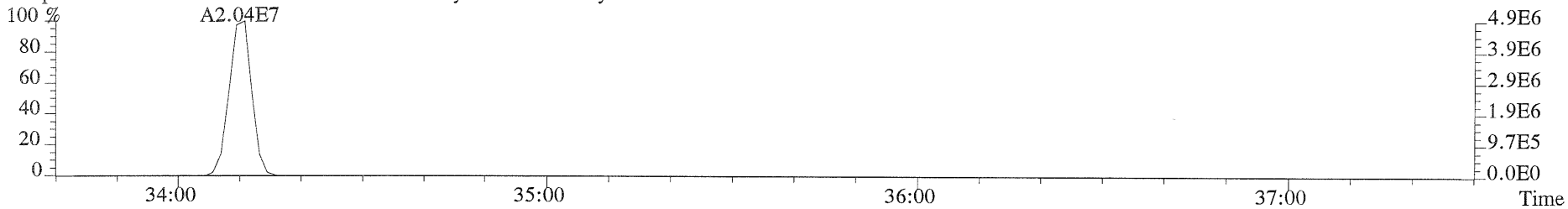
File:28SEP16Y #1-179 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:23 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



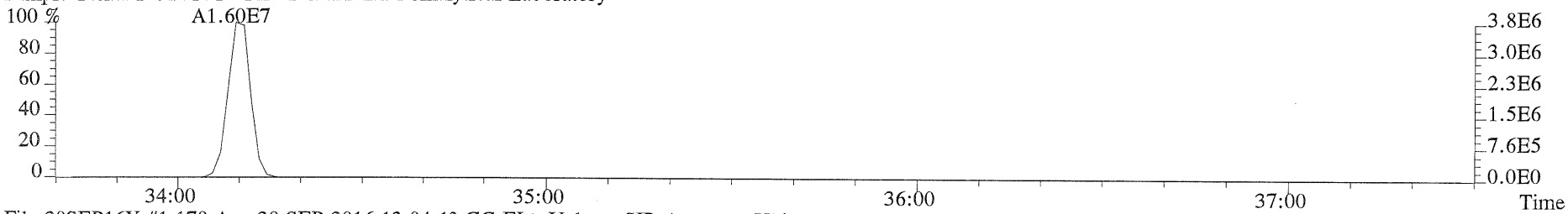
File:28SEP16Y #1-179 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:23 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



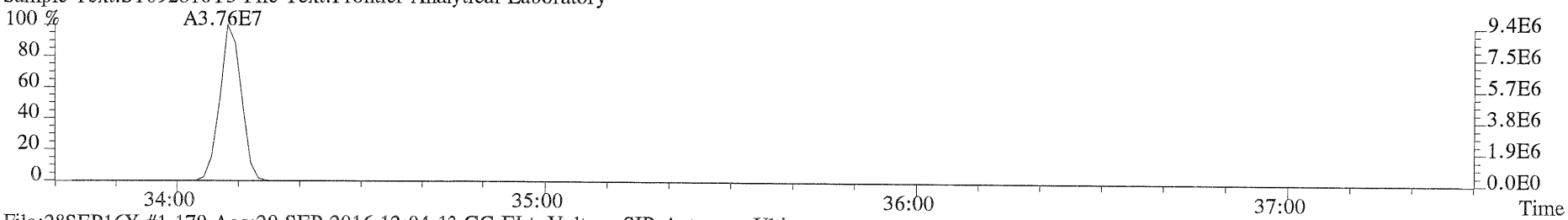
File:28SEP16Y #1-179 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:23 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



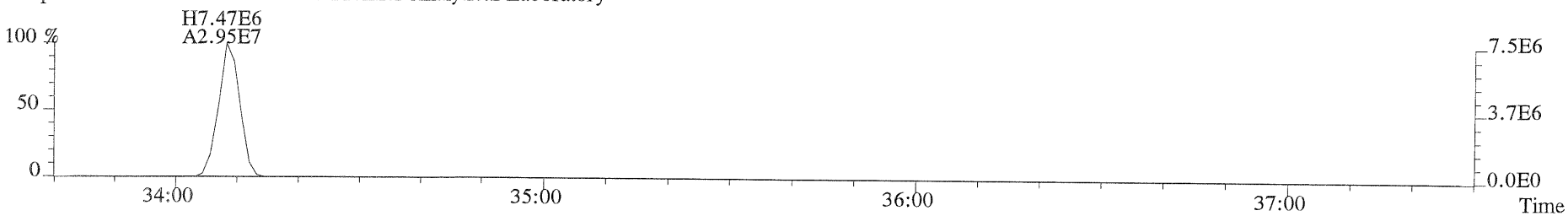
File:28SEP16Y #1-179 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:23 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



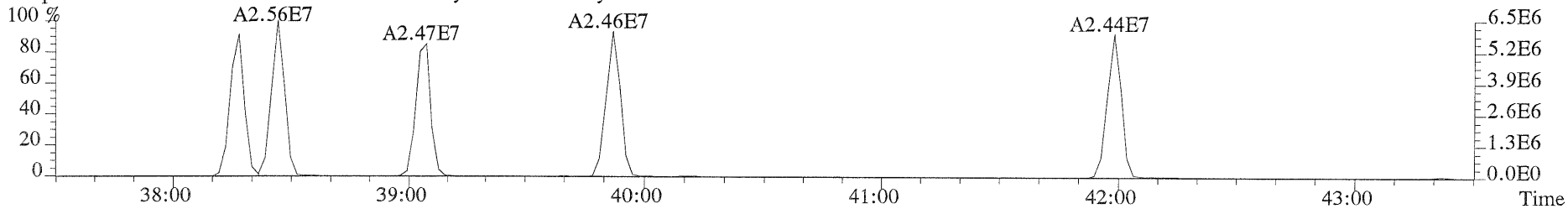
File:28SEP16Y #1-179 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:23 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



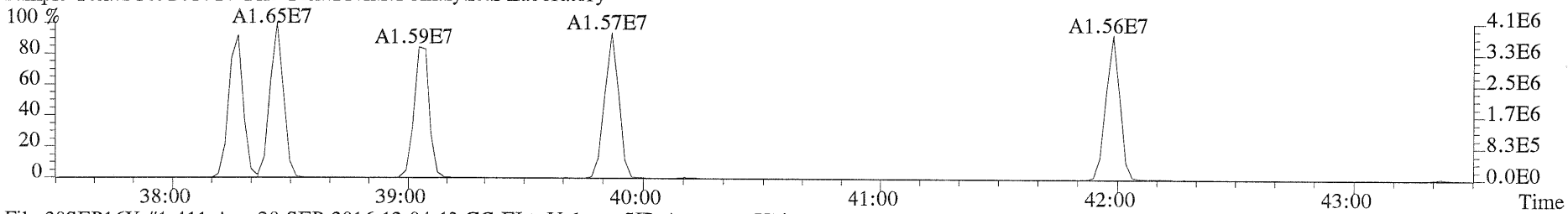
File:28SEP16Y #1-179 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:23 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



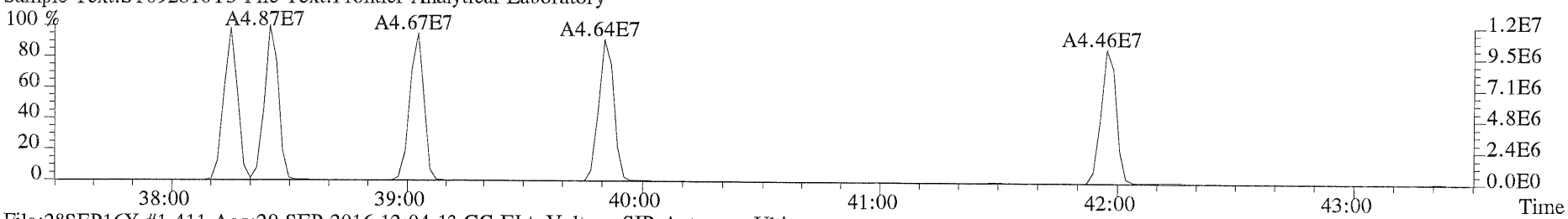
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



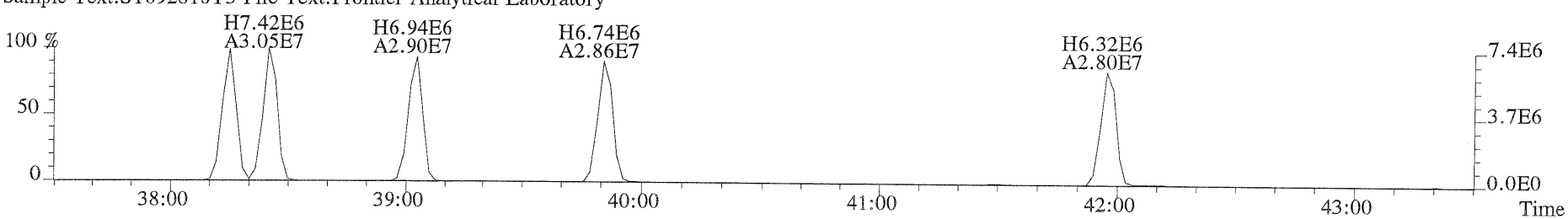
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



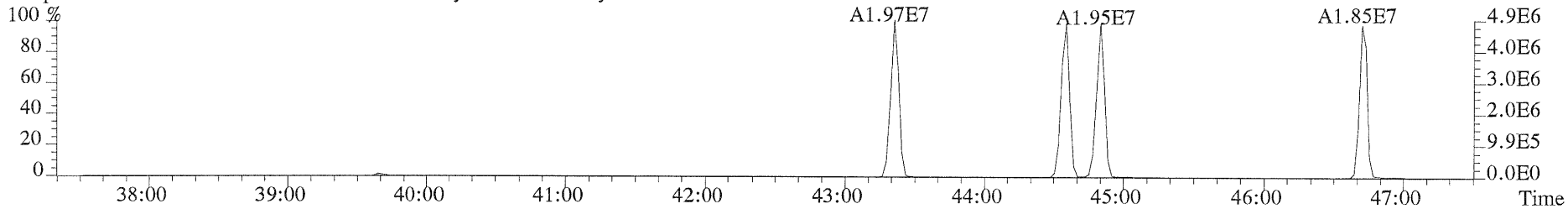
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



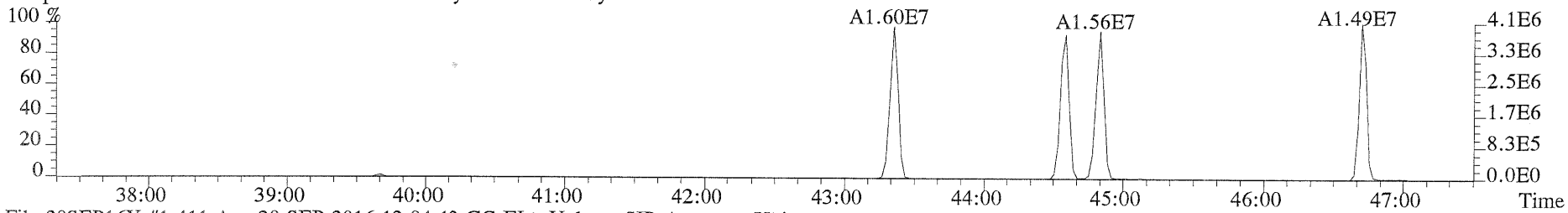
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



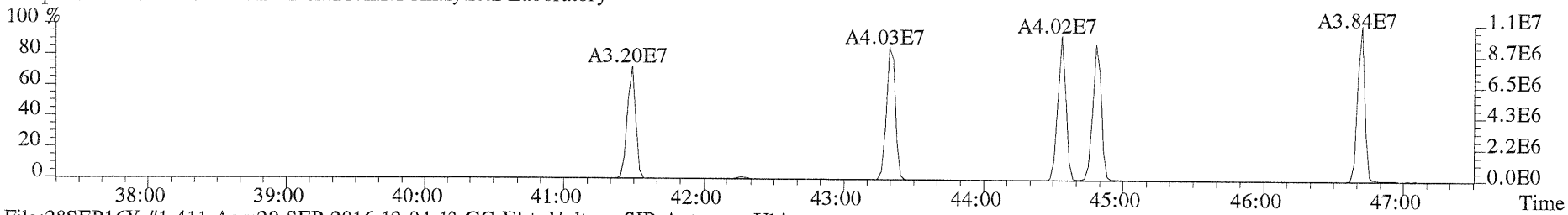
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



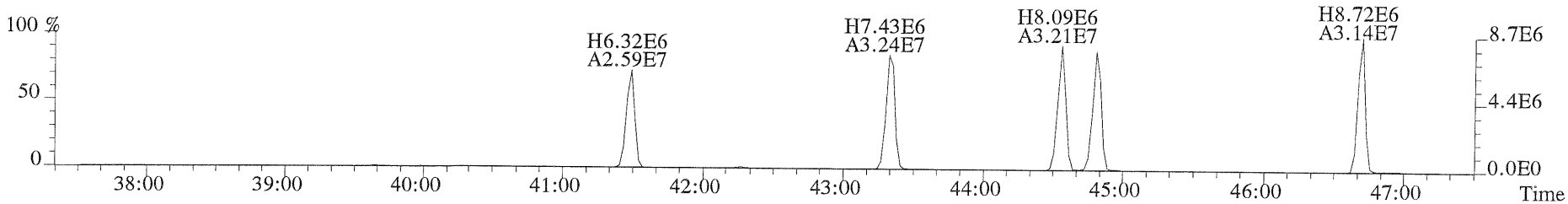
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



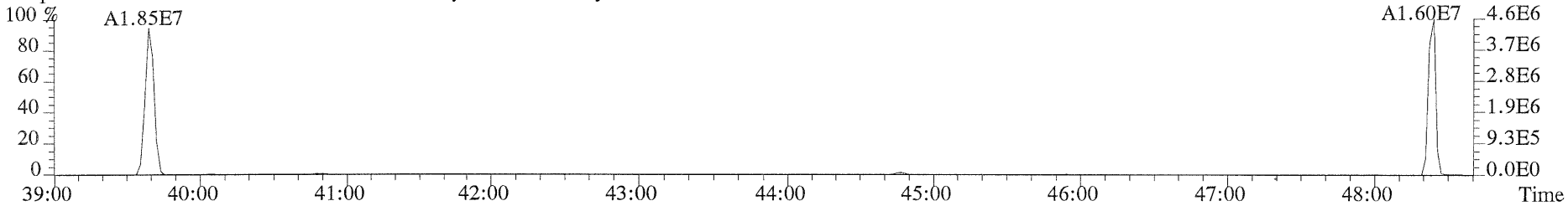
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



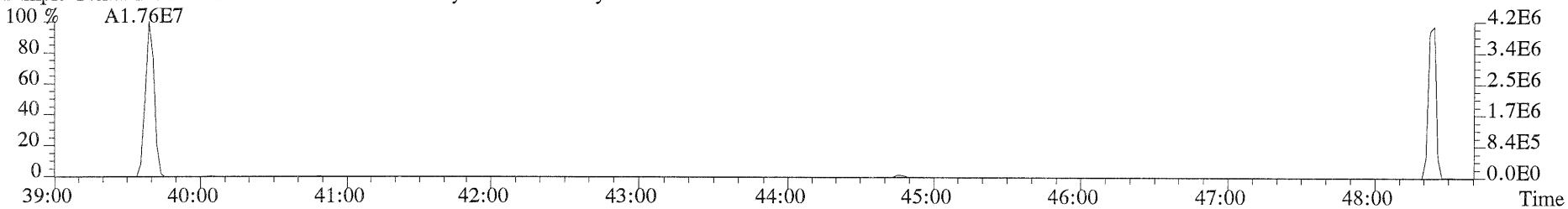
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



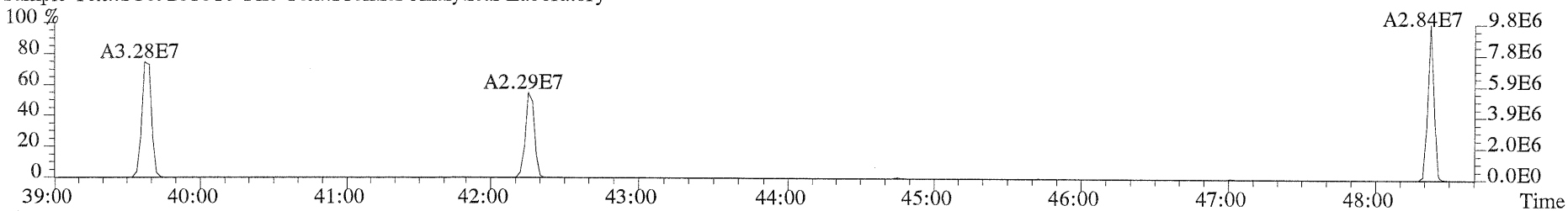
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



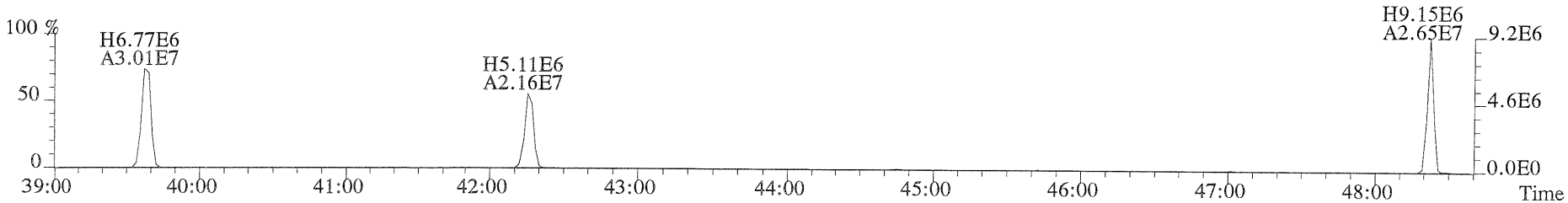
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



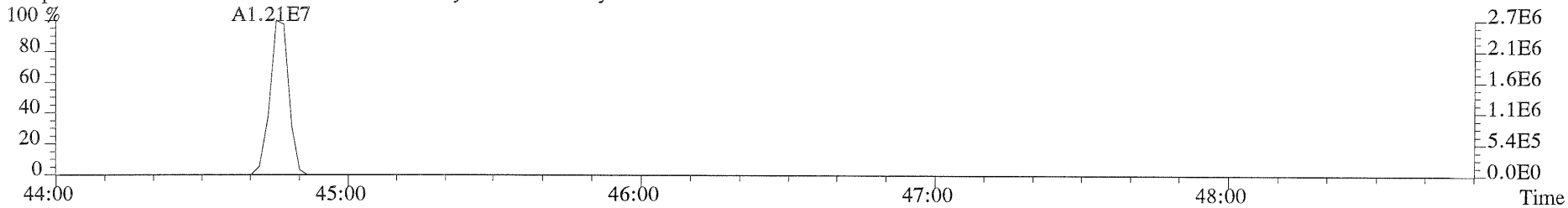
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



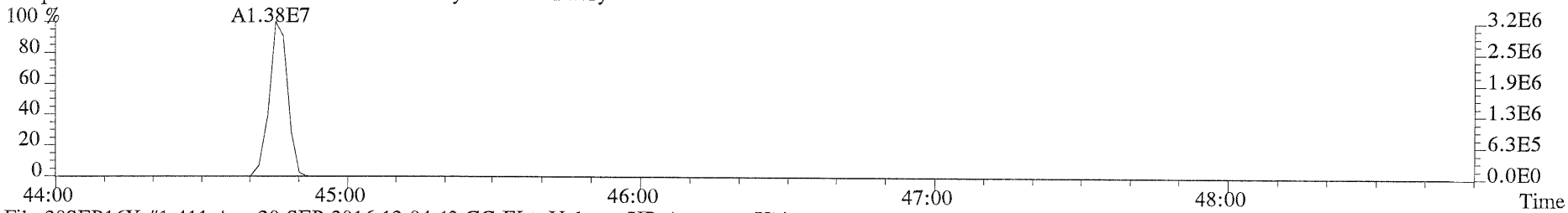
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



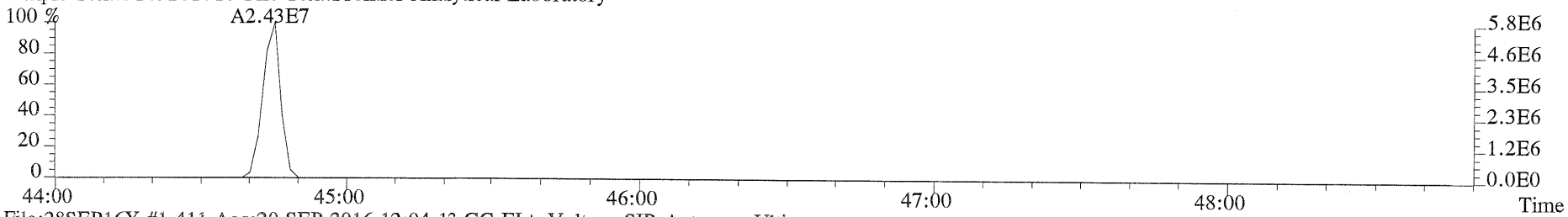
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



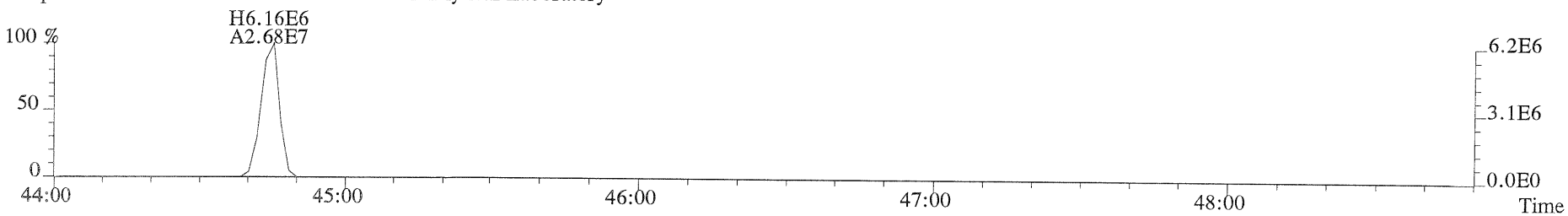
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



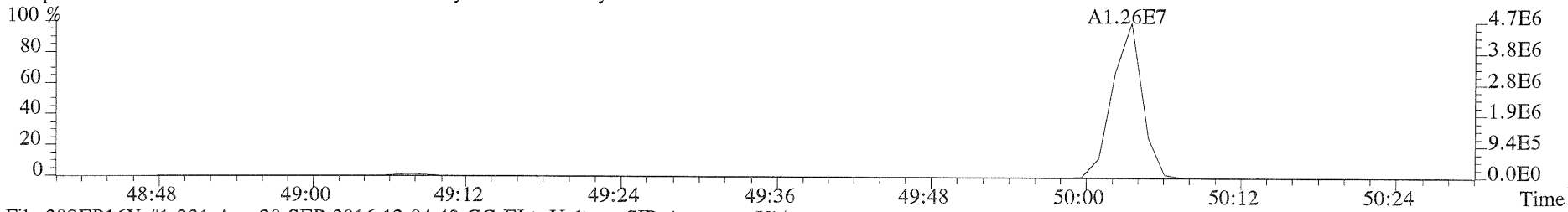
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



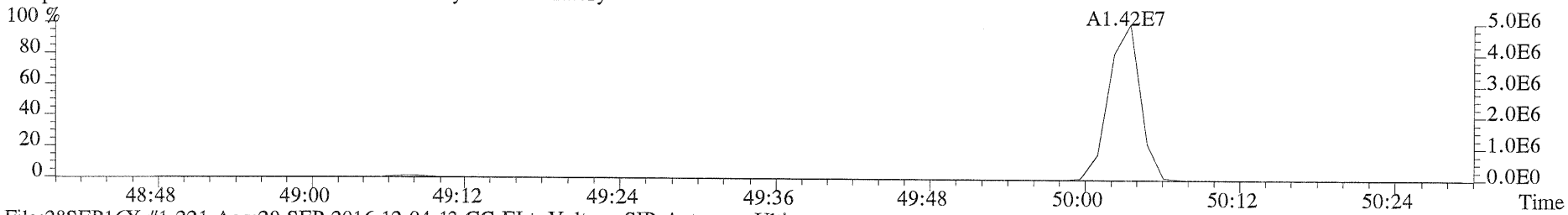
File:28SEP16Y #1-411 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:23 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



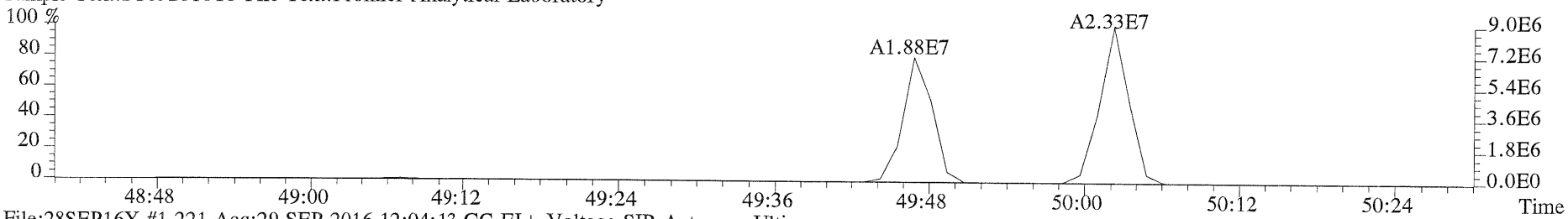
File:28SEP16Y #1-221 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:23 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



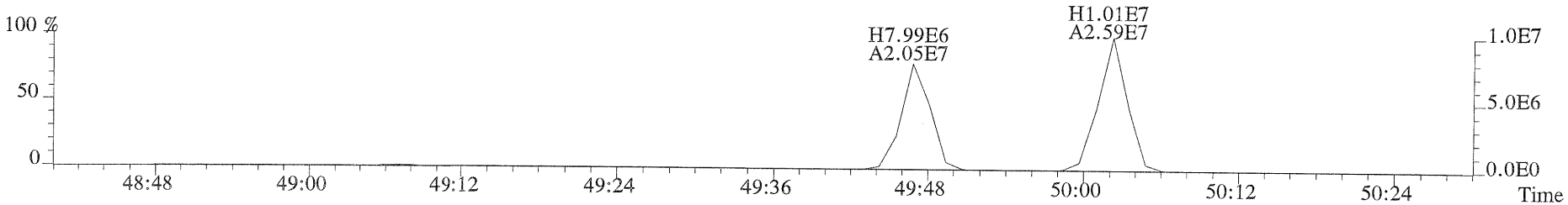
File:28SEP16Y #1-221 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:23 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



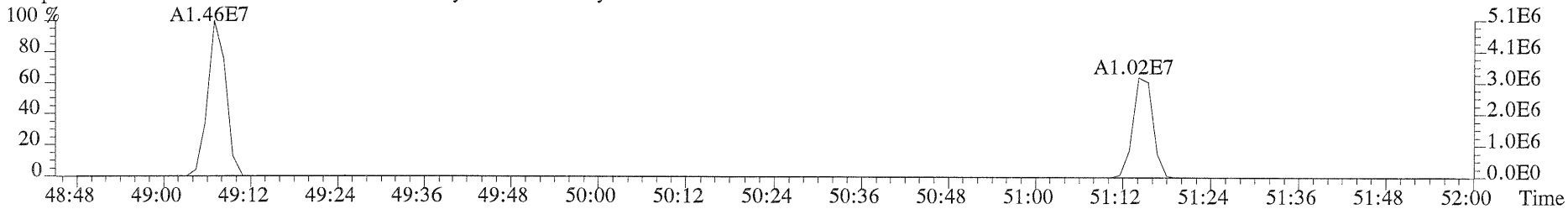
File:28SEP16Y #1-221 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:23 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



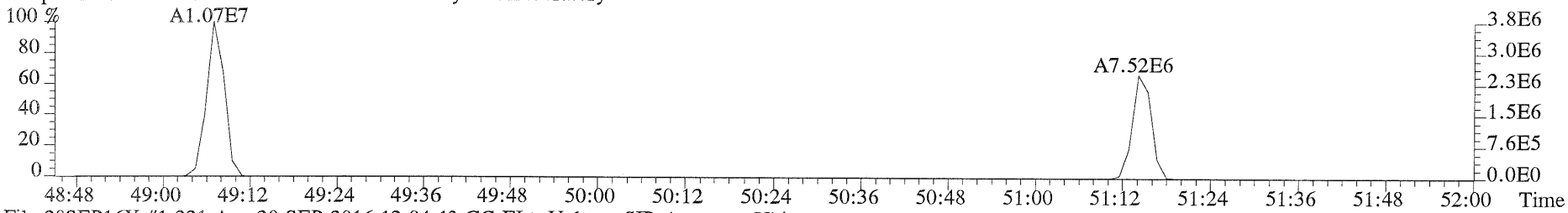
File:28SEP16Y #1-221 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:23 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



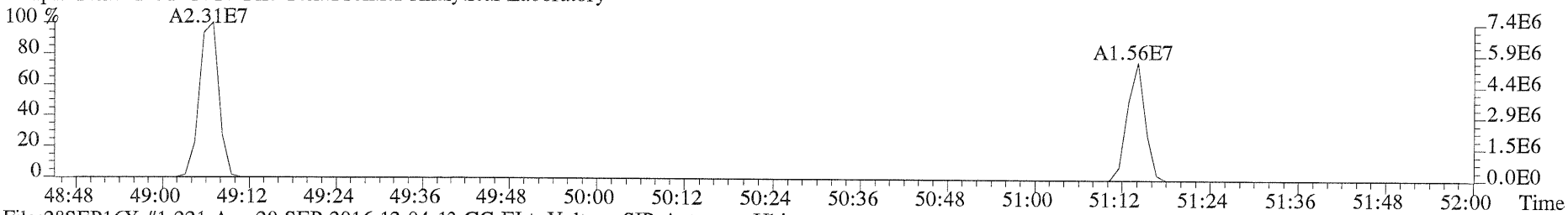
File:28SEP16Y #1-221 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:23 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



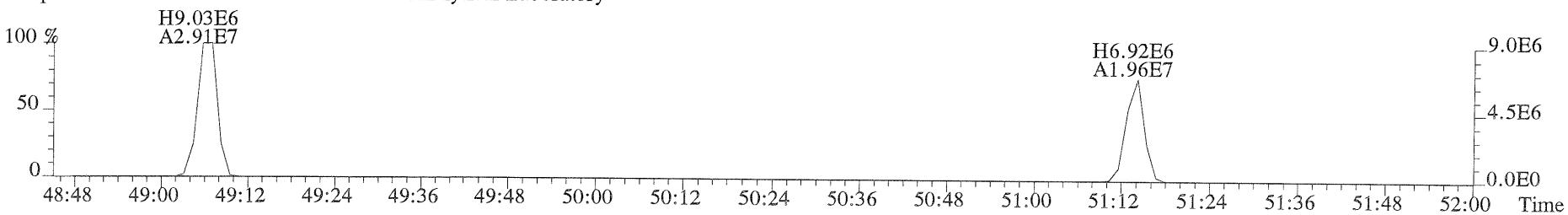
File:28SEP16Y #1-221 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:23 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



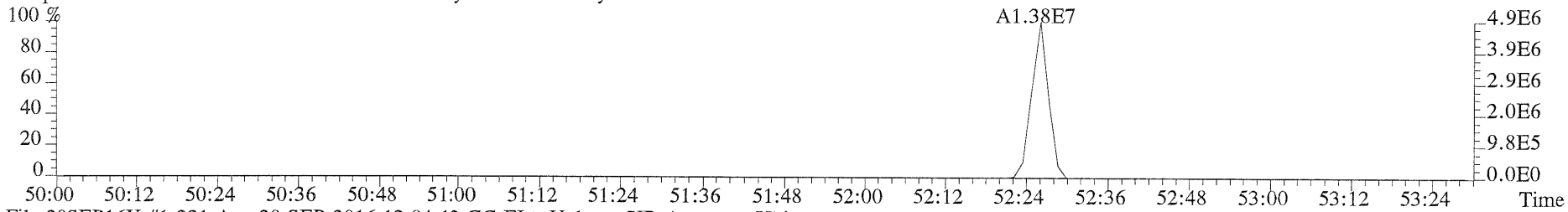
File:28SEP16Y #1-221 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:23 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



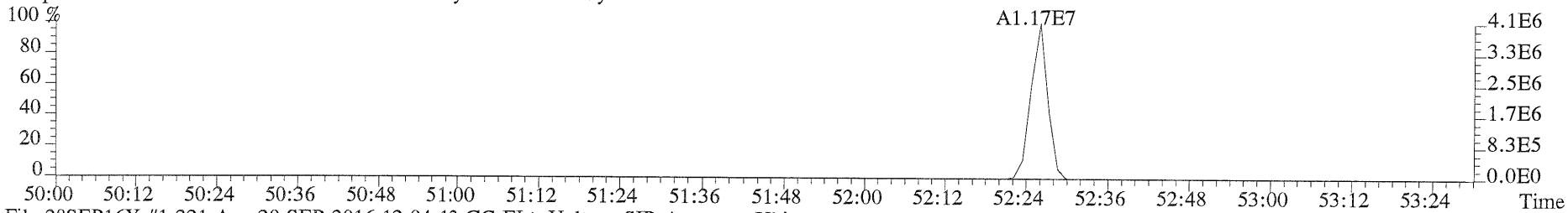
File:28SEP16Y #1-221 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:23 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



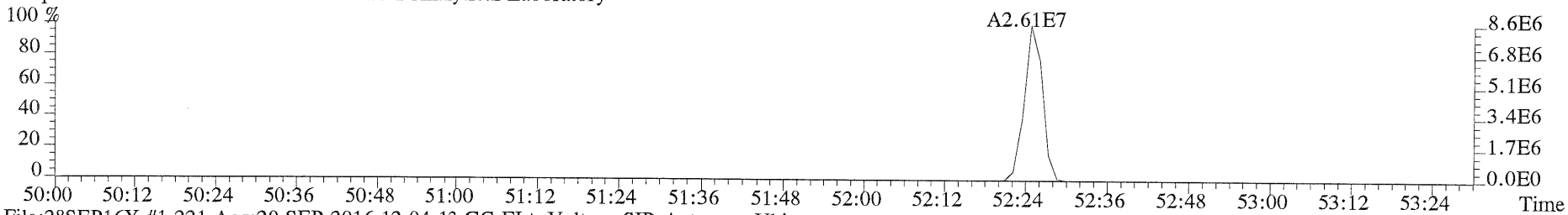
File:28SEP16Y #1-221 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:23 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



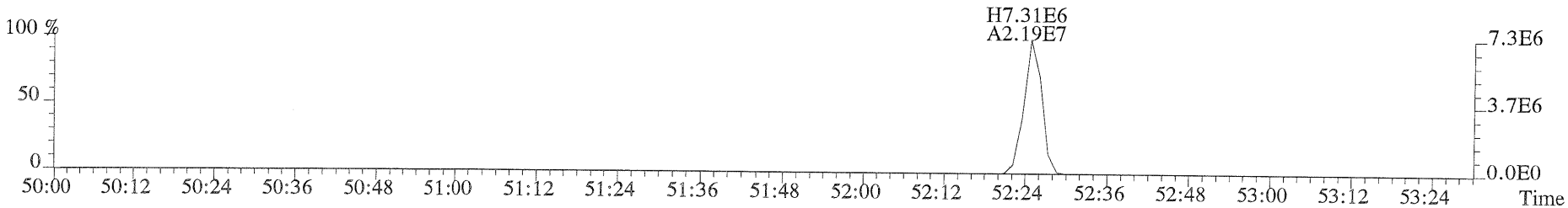
File:28SEP16Y #1-221 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:23 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory



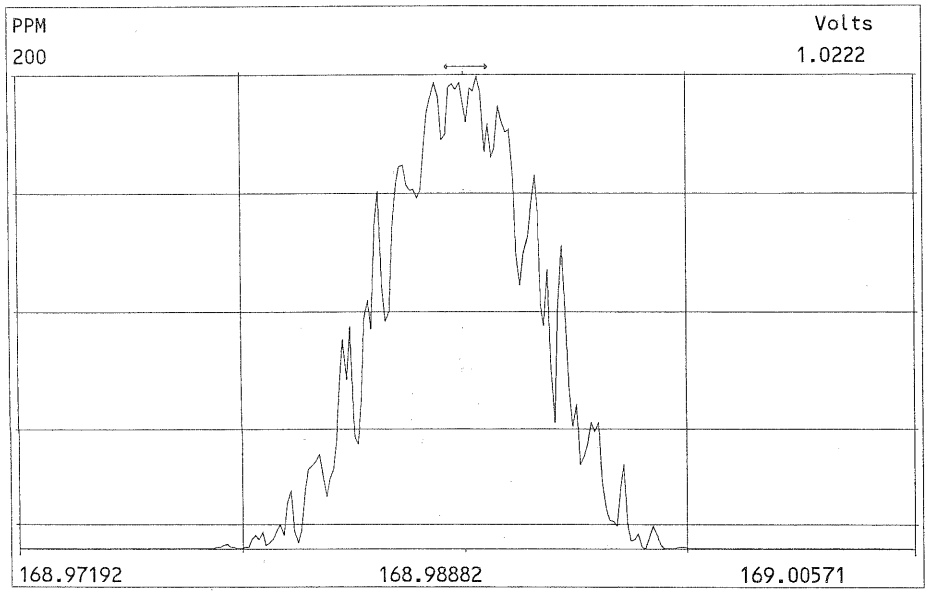
File:28SEP16Y #1-221 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:23 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory

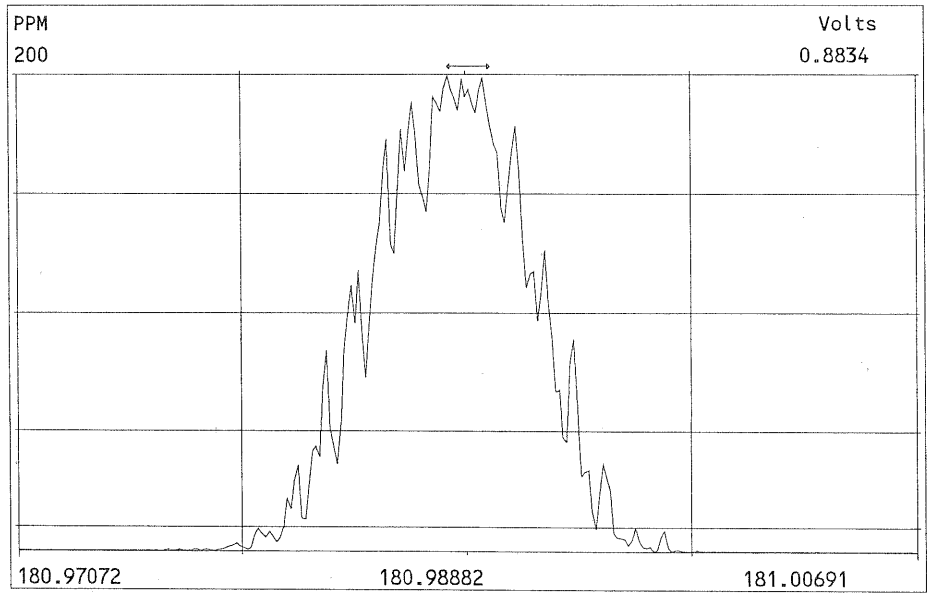


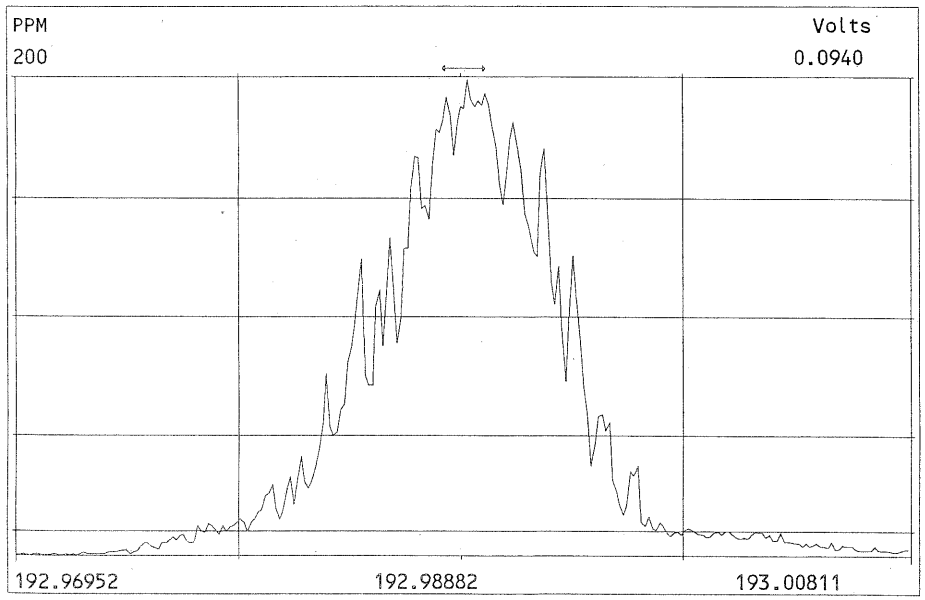
File:28SEP16Y #1-221 Acq:29-SEP-2016 12:04:13 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:23 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST092816Y3 File Text:Frontier Analytical Laboratory

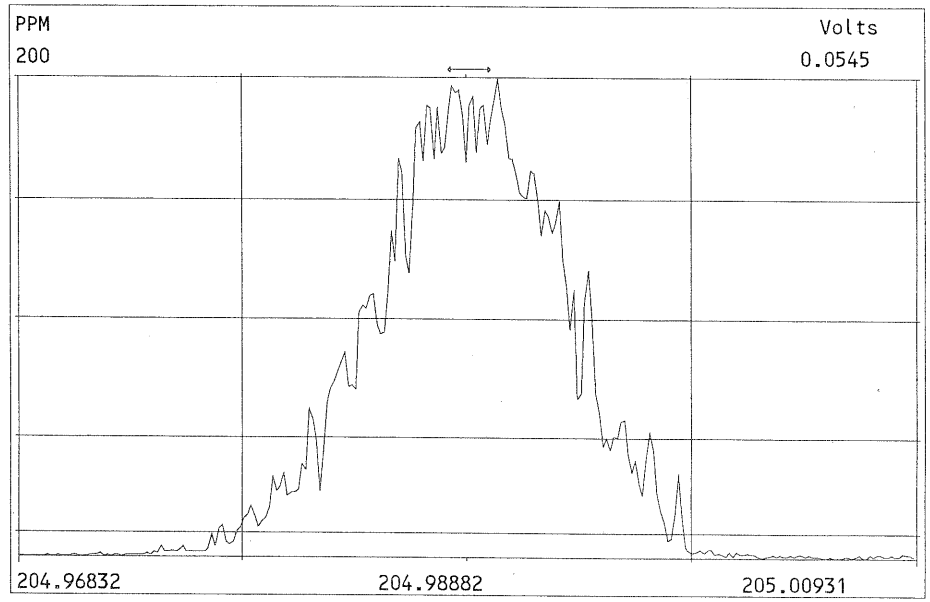


Peak Locate Examination:29-SEP-2016:13:02 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

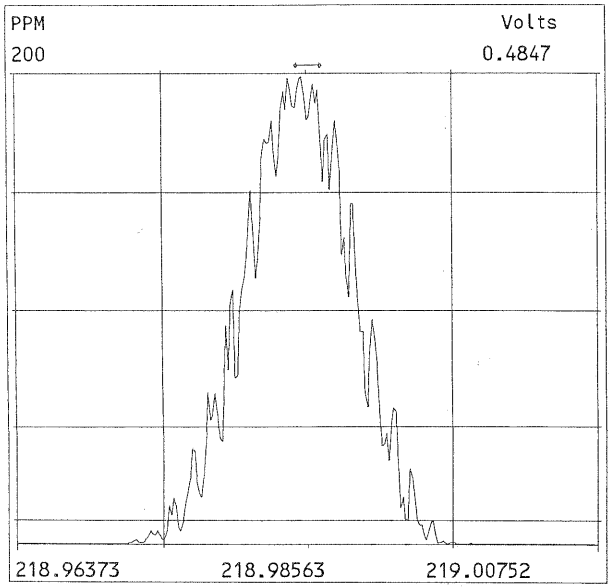


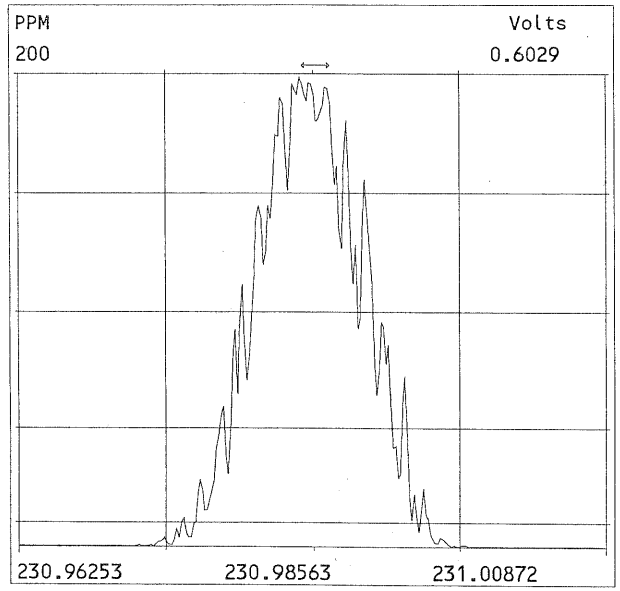


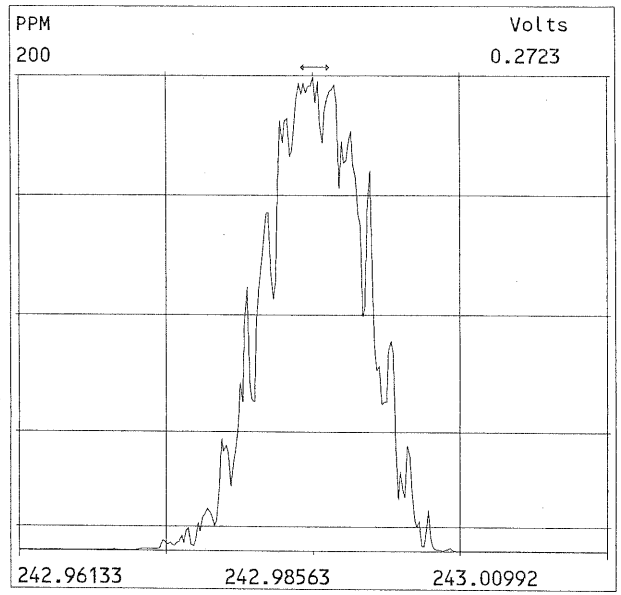


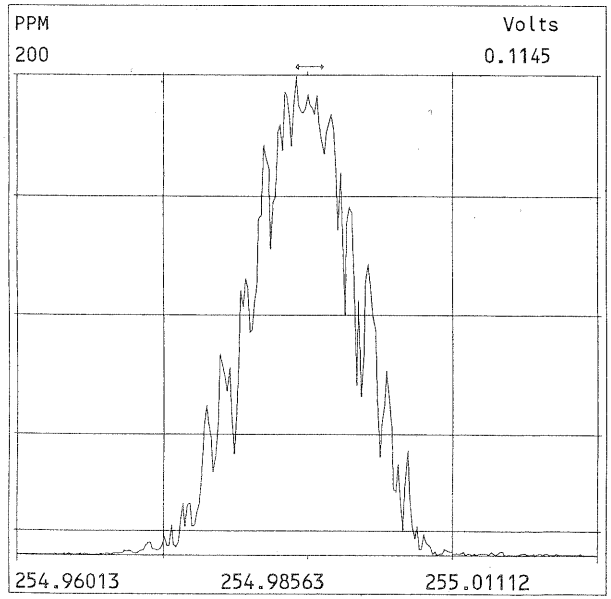


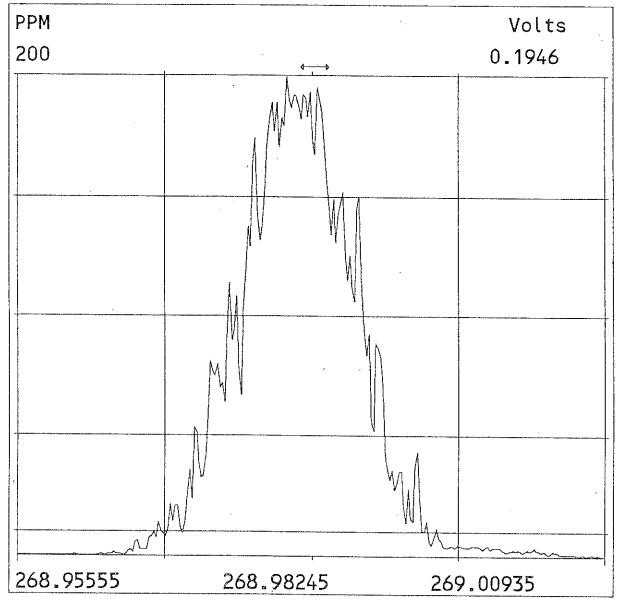
Peak Locate Examination:29-SEP-2016:13:02 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

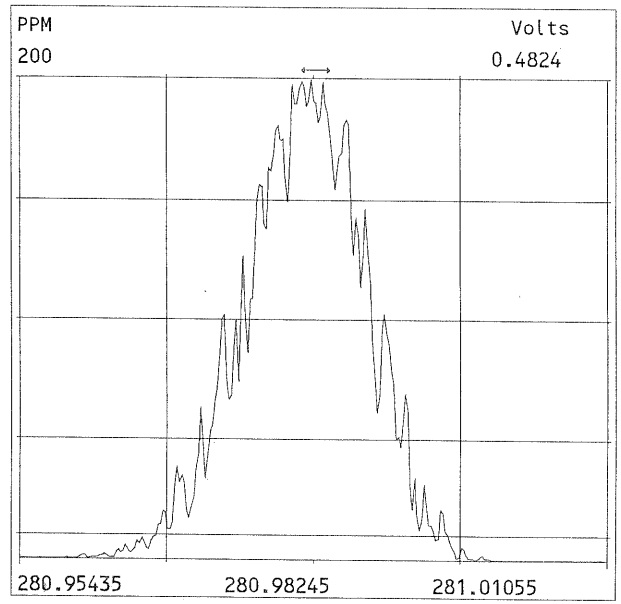




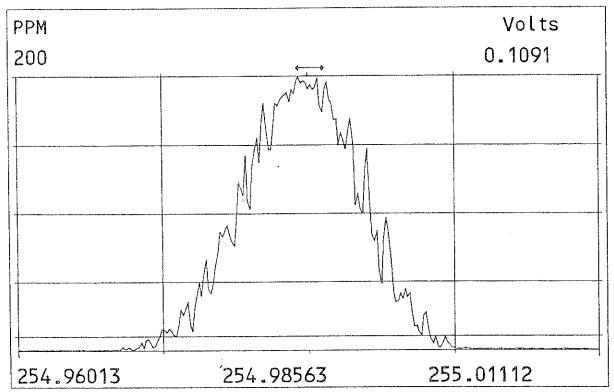


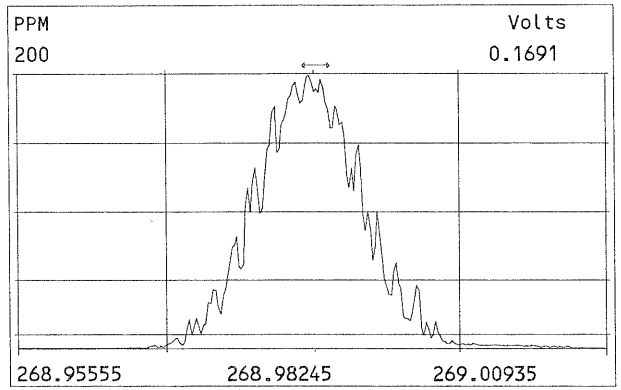


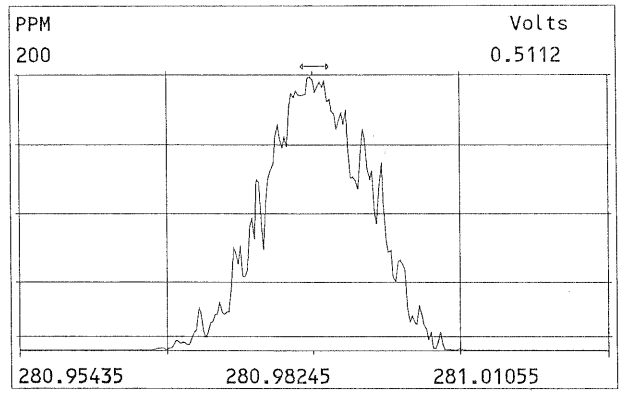


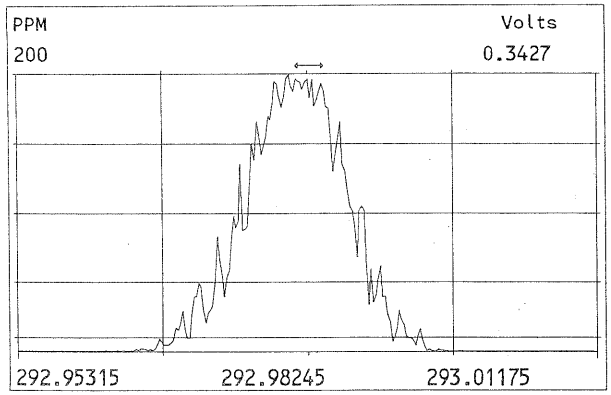


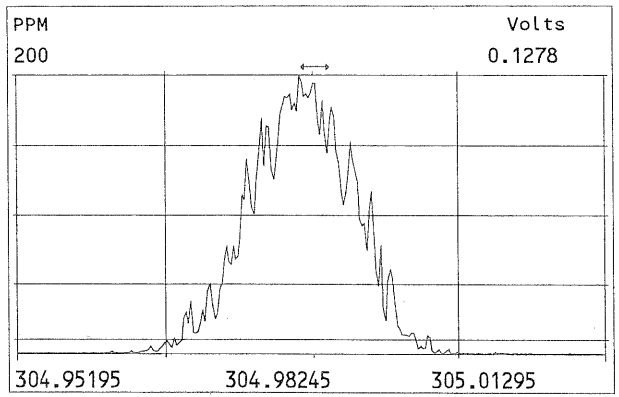
Peak Locate Examination:29-SEP-2016:13:03 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

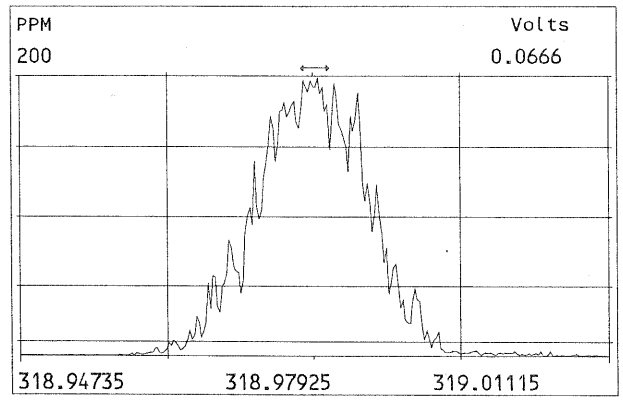


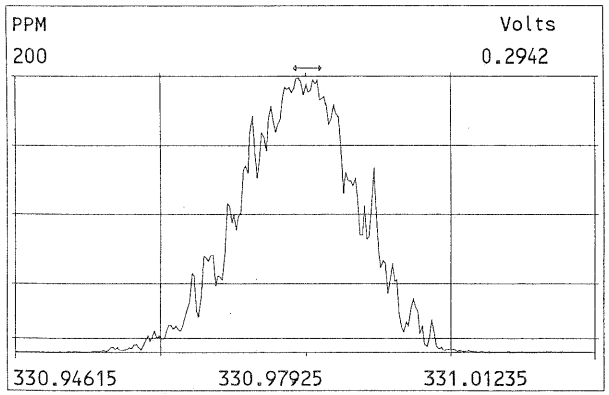


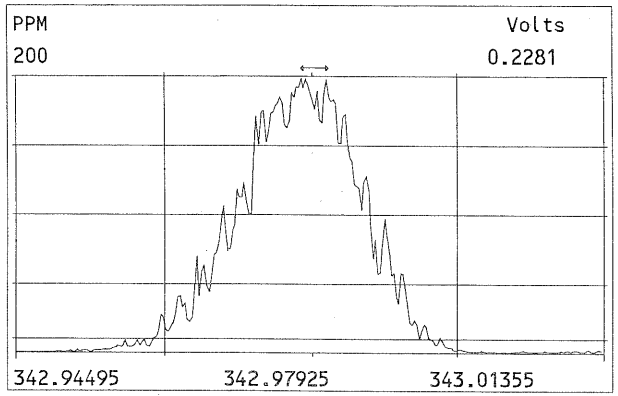




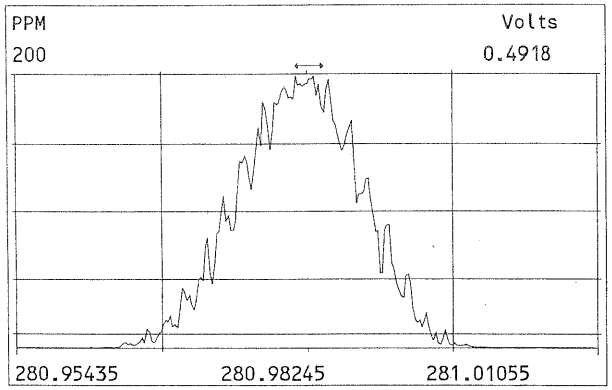


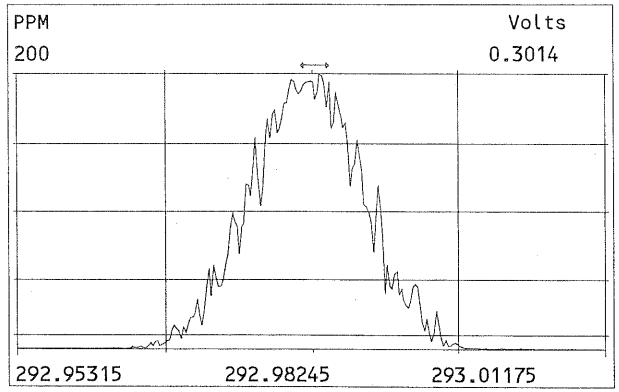


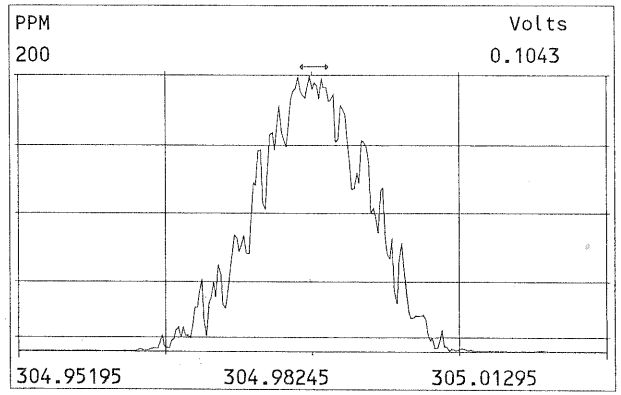


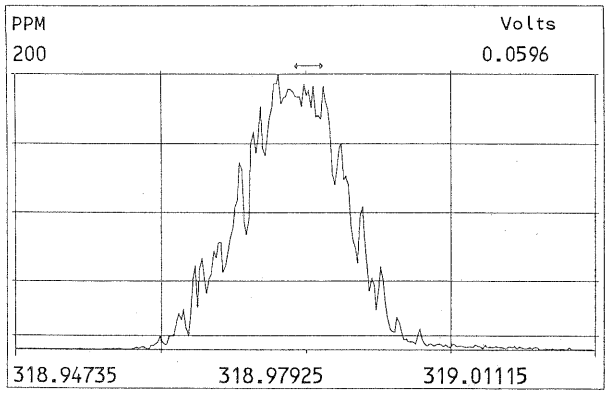


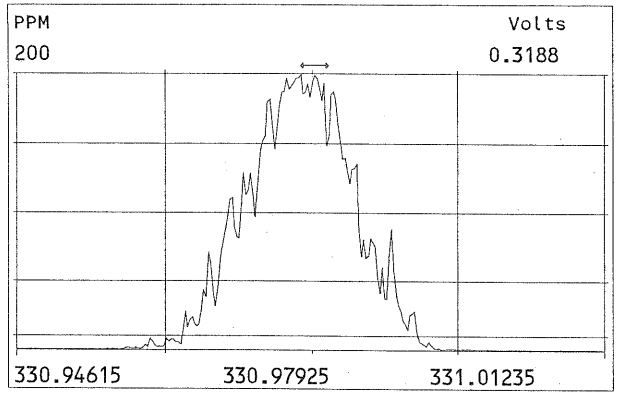
Peak Locate Examination:29-SEP-2016:13:04 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

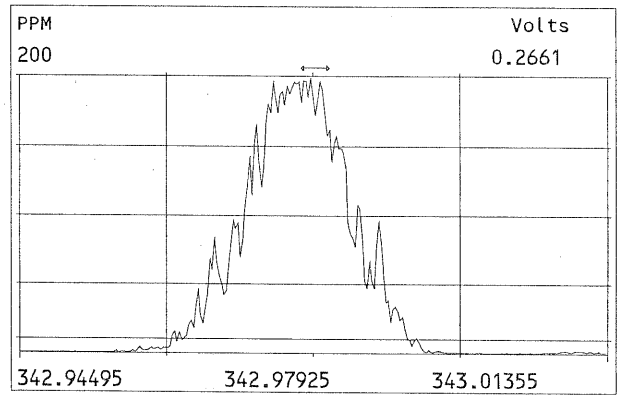


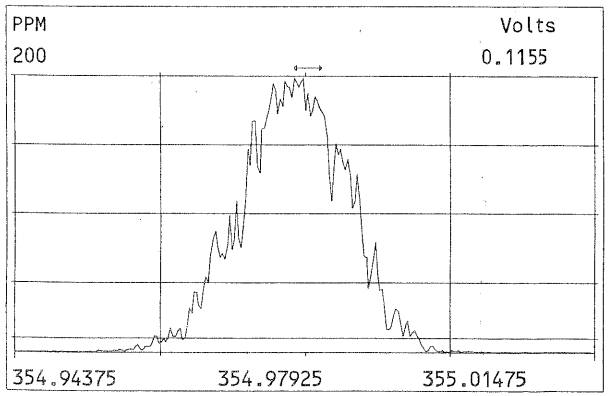


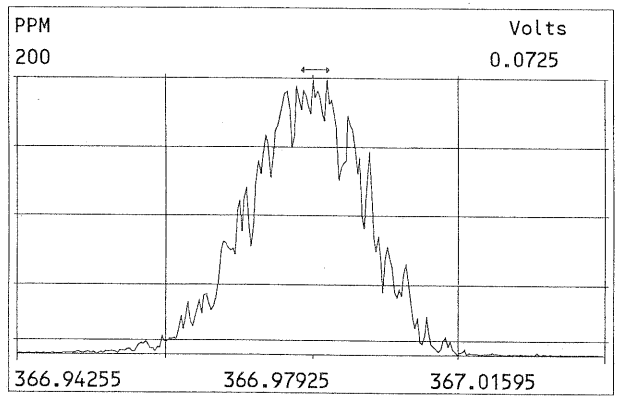


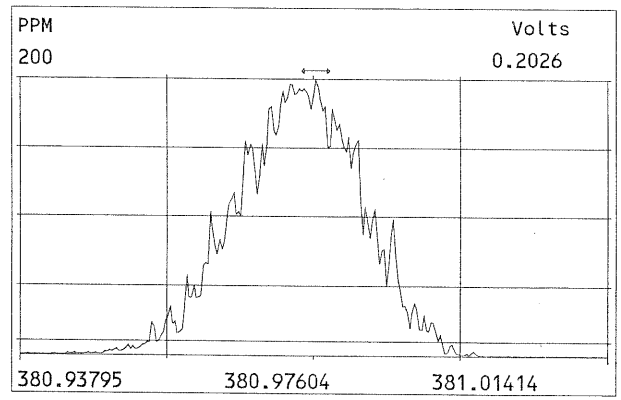




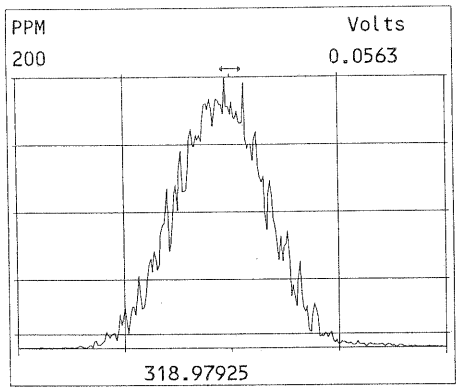


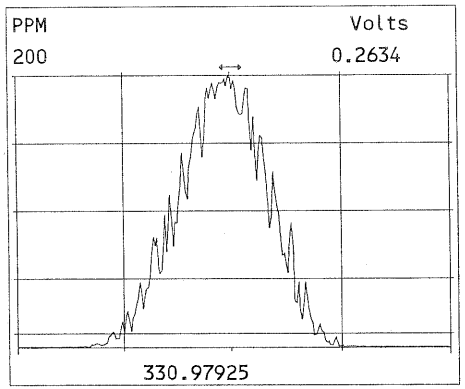


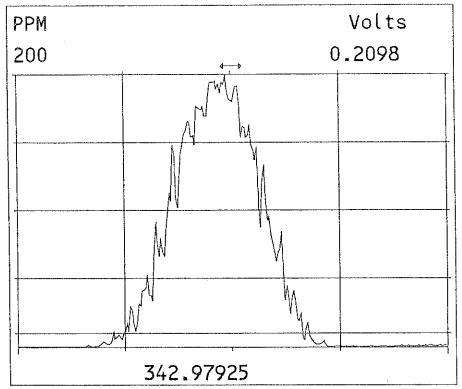


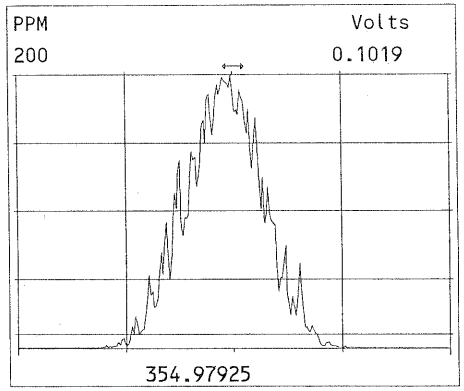


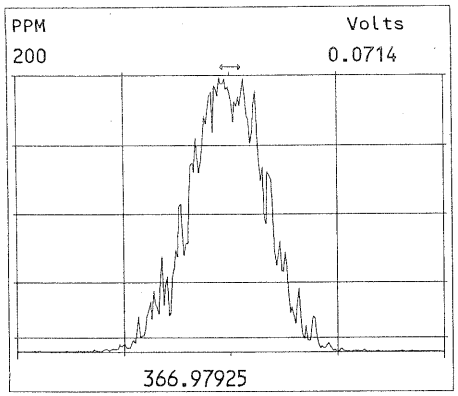
Peak Locate Examination:29-SEP-2016:13:04 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

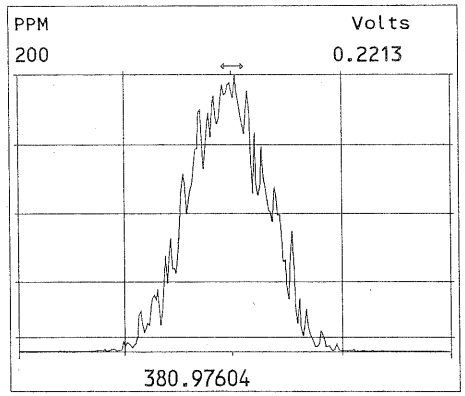


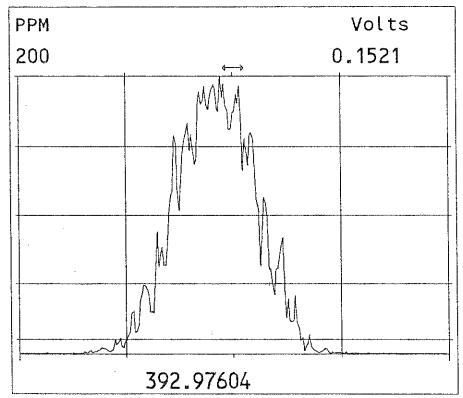


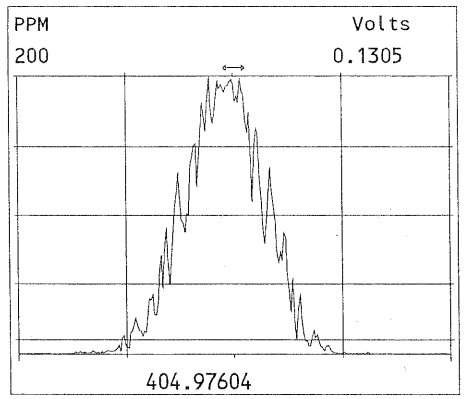


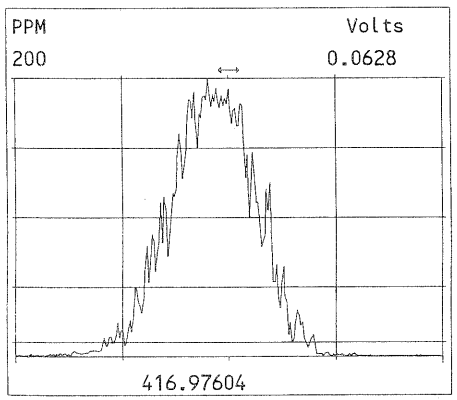


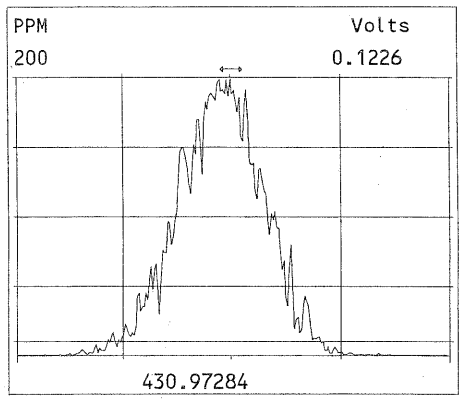


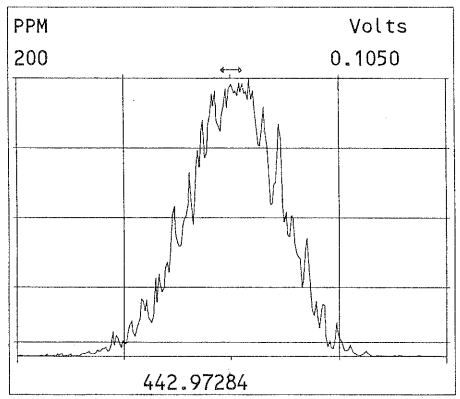
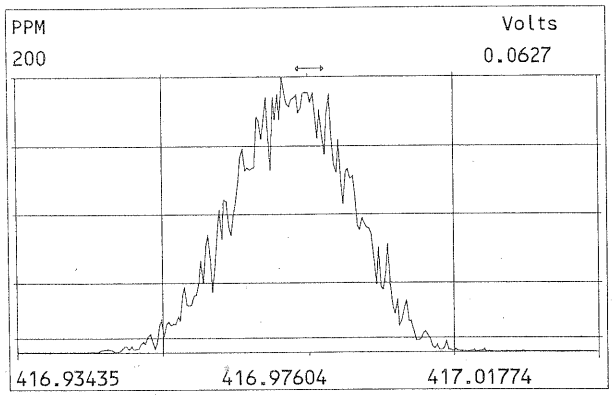
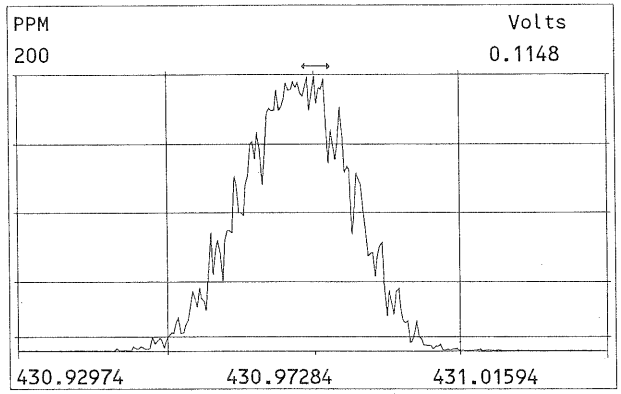
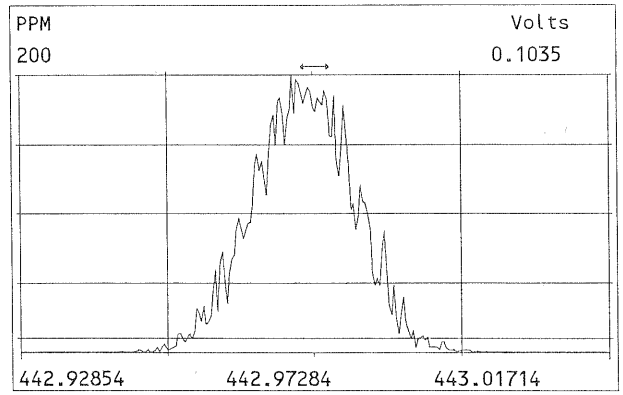
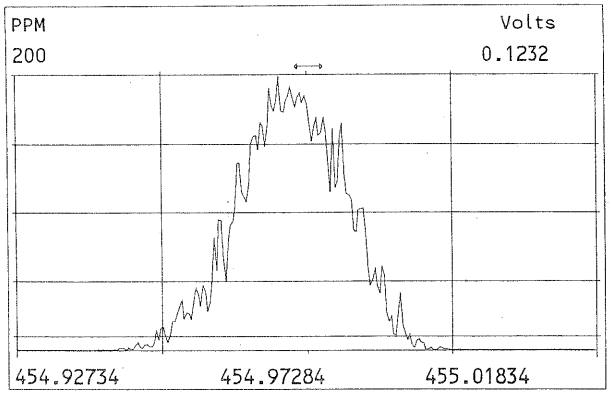
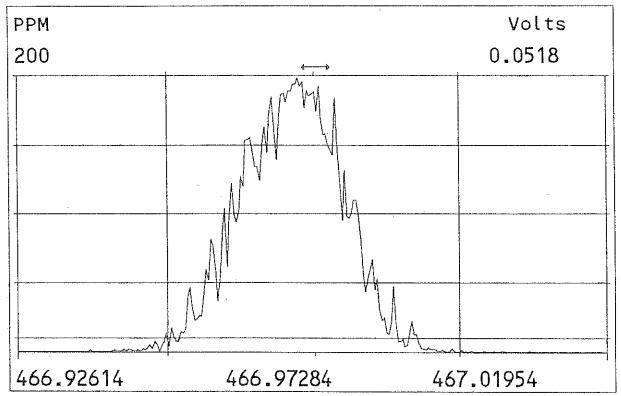
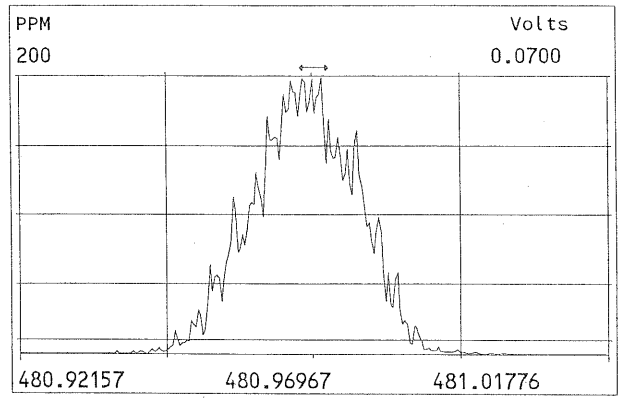
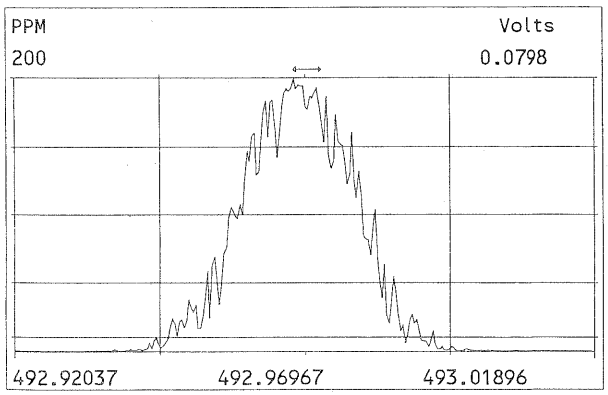
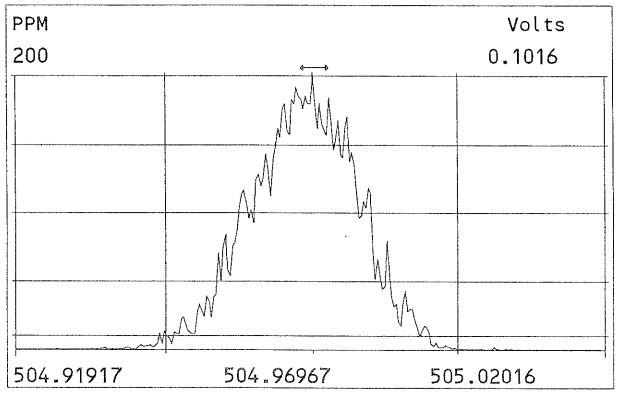
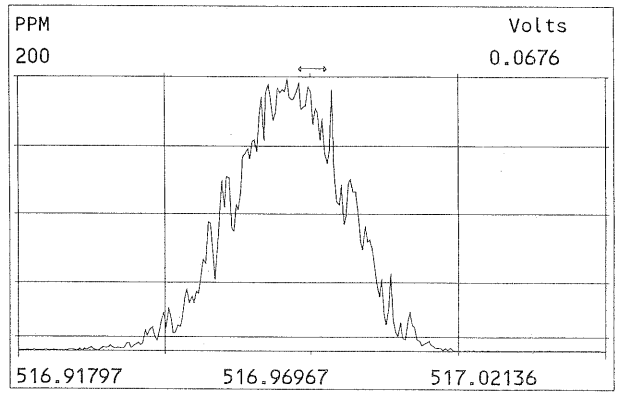












Peak Locate Examination:29-SEP-2016:13:05 File:28SEP16Y_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK