Lower Duwamish Waterway

NPDES Inspection Sampling Support 2014/2015

Prepared for

Toxics Cleanup Program
Northwest Regional Office
Washington State Department of Ecology
Bellevue, Washington

Prepared by

18912 North Creek Parkway, Suite 101
Bothell, Washington 98011

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Appendix U
Alaska Street Reload

Limitation of Use: Leidos' project activities were restricted to collection and analysis of a limited number of environmental samples and visual observations obtained during the physical site visit, and from records made available by Ecology or third parties during the project. In preparing this report, Leidos has relied on verbal and written information provided by secondary sources and interviews, including information provided by the customer. Leidos has made no independent investigations concerning the accuracy or completeness of the information relied upon. Because the project activities consisted of collecting and evaluating a limited supply of information, Leidos may not have identified all potential items of concern and, therefore, Leidos warrants only that the project activities under this contract have been performed within the parameters and scope communicated by Ecology and reflected in the contract. Maps presented in this report were accurate based on the information available to Leidos at the time that the facility inspections were conducted.

This report is intended to be used in its entirety. Taking or using in any way excerpts from this report are not permitted and any party doing so does so at its own risk.

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U-1 Introduction and Background

Facility Name	Alaska Street Reload & Recycling
Facility/Site ID	81491835
Address	70 S Alaska Street Seattle, WA 98134
NPDES Permit Type	Industrial Stormwater General Permit
NPDES Permit No.	WAR004605
Permit Monitoring Requirements	Turbidity, pH, total zinc, total copper, petroleum–oil, grease
SIC Code	4212: Local Trucking, Without Storage 4953: Refuse Systems 4959: Sanitary Services
Inspection Date	January 20, 2015
Grab Samples	1 water sample; 3 solids samples
Sample ID(s)	AS-CB-UNK-20150120-W AS-CB-02-20150120-S AS-CB-05-20150120-S AS-CB-UNK-20150120-S
Water Sample Analytes	Total metals, mercury, PCB congeners, dioxins/furans, SVOCs, alkalinity/carbonate/bicarbonate, anions, specific conductance, pH, TOC, DOC, TSS
Solids Sample Analytes	Total metals, mercury, PCB Aroclors, PCB congeners, dioxins/furans, SVOCs, VOCs, TPH-diesel/motor oil, TPH-gasoline, grain size, TOC
Split Samples with Facility	No

Alaska Street Reload & Recycling Center (Alaska Street Reload) is located at 70 S Alaska Street, Seattle, Washington. The facility consists of four buildings: Scale House, Operations Trailer, Transfer Building #1, and Transfer Building #2. The Scale House and Operations Trailer are located on the north side of the site, adjacent to the weight scale, immediately left of the entrance. The Transfer Building is located on the southwest portion of the property.

The facility is an intermodal truck-to-rail transfer facility for non-hazardous contaminated soils, sludge, and drummed and recyclable materials. Alaska Street Reload also operates as a 10-Day Storage and Transport Facility for dangerous wastes that are trans-loaded and shipped to a designated facility, Chemical Waste Management of the Northwest, located in Arlington, OR (SoundEarth 2012). An overview of the facility is presented in Figure U-1.

U-1.1 Stormwater Conveyance

Stormwater generated in most areas of the site is collected from building roofs and paved areas and directed to catch basins located in the asphalt paved parking area. The catch basins discharge through a pair of underground storm drain lines to the stormwater mainline on 1st Avenue S. The

stormwater mainline ultimately discharges to the Lower Duwamish Waterway (LDW). Stormwater form the southern portion of the site is directed to catch basins in the paved lot, and discharges through an underground storm drain line to the same stormwater main via Outfall A. The facility also includes an outdoor truck tire wash that is situated immediately north of Building #1. The undercarriage and tires for the hauling trucks leaving the facility are washed and the wash water is pretreated in an oil/water separator and collected in holding tanks for reuse until it is discharge to the sanitary sewer. The tire wash system does not discharge to the storm drain system (SoundEarth 2012). A facility drainage map is presented in Figure U-1.

U-1.2 Recent Compliance History

Based on available discharge monitoring reports, Alaska Street Reload exceeded benchmarks for zinc, copper, and turbidity during the 2nd, 3rd, and 4th quarter of 2013. The facility also exceeded the benchmark for pH and oil and grease during the 2nd and 4th quarters of 2013. The facility implemented Level 2 and Level 3 corrective actions. Alaska Street Reload continues to perform daily sweeping activities. The facility implemented a Level 2 corrective action on November 22, 2013, which included the re-grading of asphalt and the addition of new catch basins to collect stormwater that previously flowed offsite via sheet flow. A permanent chitosan-enhanced sand filtration treatment system was installed in November 2013 to replace the pilot system that was already place. Corrective actions were completed on November 27, 2013 (Alaska Street Reload 2014).

U-2 Inspection and Sampling

U-2.1 January 2015 Stormwater Compliance Inspection

On January 20, 2015, Ecology conducted a stormwater compliance inspection at Alaska Street Reload. Leidos assisted Ecology with inspection and sampling of the facility's stormwater conveyance system. The inspection included investigating influent and effluent points at drainage structures, preparing written and photographic documentation, and assessing whether the drainage structures contained sufficient sampleable material. The coordinates of sample locations are plotted on Figure U-2 using geographic information system software. An inspection photographic log and field documentation are presented in Attachments U-1 and U-2, respectively.

The field team inspected the following stormwater conveyance structures at Alaska Street Reload, as shown on Figure U-2 (locations where sample were collected are shown in bold font):

- **Catch basin 02 (AS-CB-02)**
- Catch basin 03 (AS-CB-03)
- Catch basin 04 (AS-CB-04)
- **Catch basin 05 (AS-CB-05)**
- **Unnumbered offsite catch basin (AS-CB-UNK).**

Locations AS-CB-02, AS-CB-05, and AS-CB-UNK contained sufficient sampleable material to collect solids samples. Location AS-CB-UNK contained sufficient water to collect a water grab sample. Storm drain structure inspection locations are presented in Figure U-2.

U-2.2 Stormwater Conveyance System Sampling

Ecology collected one water sample and three solids samples from the stormwater conveyance system at Alaska Street Reload. Sample locations, analytes, and analytical methods are listed on Table U-1. Results for the water sample are presented in Tables U-2 through U-6. Results for the solids samples are presented in Tables U-7 through U-9. Chain of custody forms and the laboratory reports are provided as Attachments U-3 and U-4, respectively.

U-2.2.1 Water Sample

Water sample AS-CB-UNK-20150120-W was collected from CB-UNK (Figure U-2 and Attachment U-1), which is located offsite, north of the fence in the northwest area of the facility. The catch basin receives stormwater from a heavy truck traffic area to the west. Stormwater is conveyed from CB-UNK to a catch basin offsite on the northeast corner of the facility. An oil sheen was observed during sample collection.

U-2.2.2 Solids Samples

Solids sample AS-CB-02-20150120-S was collected from catch basin CB-02 (Figure U-2 and Attachment U-1), which is located in the north area of the Alaska Street Reload facility. CB-02 receives stormwater from an area that drains a paved lot with heavy truck traffic adjacent to the truck wash area. Stormwater is conveyed from CB-02 to the onsite treatment system. The sample consisted of dark brown silty clay. A moderate petroleum odor was detected during sample collection.

Solids sample AS-CB-05-20150120-S was collected from catch basin CB-05 (Figure U-2 and Attachment U-1), which is located in the southern area of the Alaska Street Reload facility. CB-05 receives stormwater from an area that drains a paved area with heavy truck traffic. Stormwater is conveyed from CB-05 to CB-06 and then to the onsite treatment system. Treated stormwater is piped from the treatment system back to CB-05 and discharged offsite to the City of Seattle's stormwater system. The sample consisted of black silty solids with a slight petroleum odor. A strong sheen and free product was observed on the water surface during sample collection.

Solids sample AS-CB-UNK-20150120-S was collected from the offsite catch basin CB-UNK.

U-3 Results

U-3.1 Chemical Analysis

Ecology collected one water sample and three solids samples during the January 20, 2015 stormwater compliance inspection at Alaska Street Reload. Analytical methods, chemical results and regulatory criteria are presented in Tables U-1 through U-9.

All chemical results were independently validated by EcoChem, Inc. of Seattle, WA. A compliance-level, U.S. Environmental Protection Agency (EPA) Stage 2A data validation was performed on all chemistry results. Data validation was performed following EPA guidance (EPA 1994, 2008, 2009, 2010). The data validation report is available as Attachment 1 to the NPDES Inspection Sampling Support (2014/2015) Report (Leidos 2015).

Metals (copper, lead, mercury, nickel, zinc) and total PCB congeners exceeded one or more screening levels in the water sample (Table U-3). Concentrations of the following chemicals exceeded screening levels in one or more solids samples (Table U-8).

- Metals: mercury and zinc;
- PCBs: total PCB Aroclors, total PCB congeners;
- Dioxin/furan TEQ;
- Phthalates: bis(2-ethylhexyl)phthalate, butylbenzylphthalate, dimethylphthalate;
- Phenols: 4-methylphenol;
- Other SVOCs: n-nitrosodiphenylamine;
- TPH: gasoline- and motor oil-range hydrocarbons.

U-3.2 Inspection Results and Permit Compliance Requirements

The Ecology inspection report was not available for review.

U-4 References

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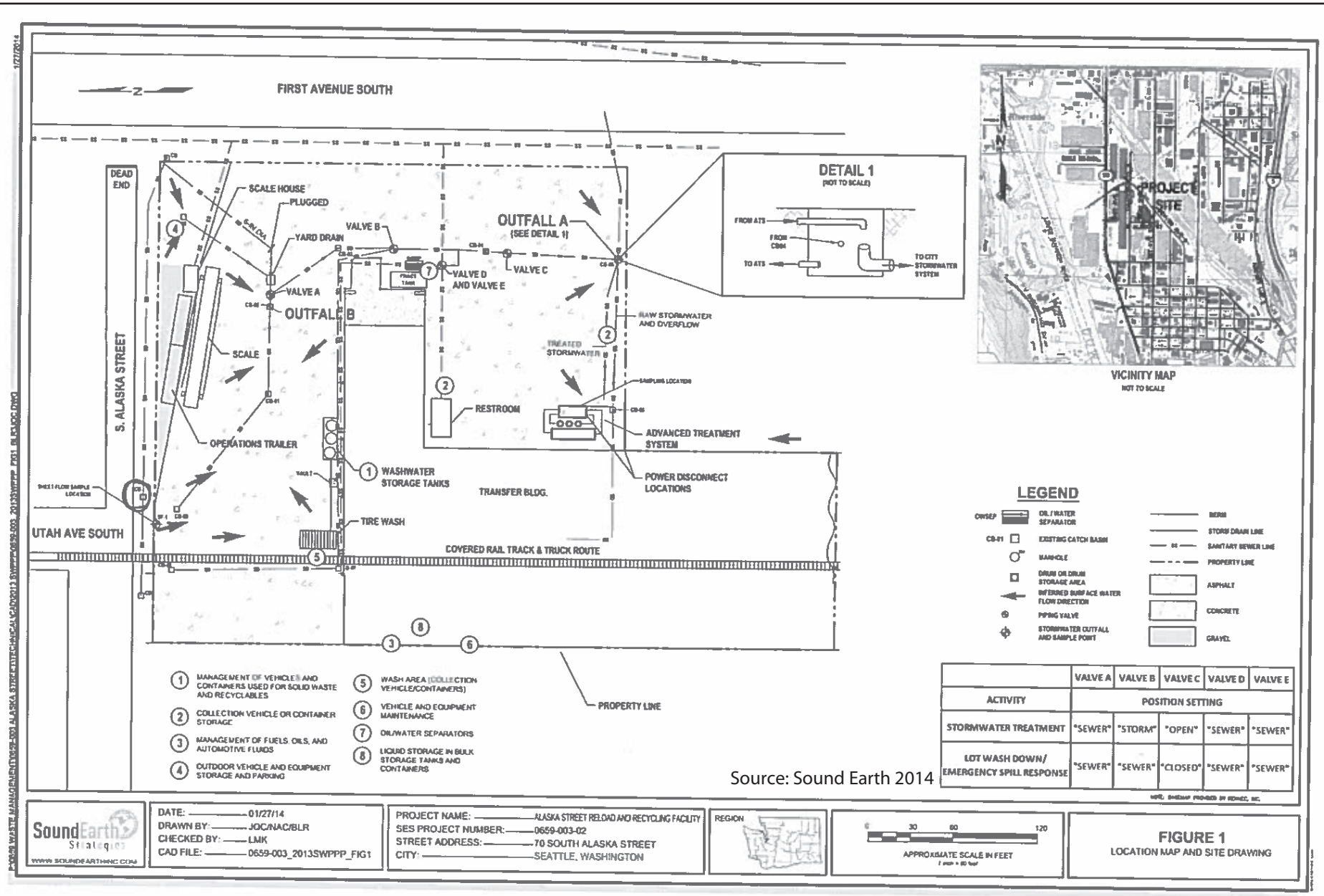
SoundEarth Strategies (SoundEarth). 2012. Stormwater Pollution Prevention Plan, Alaska Street Reload & Recycling Center, 70 South Alaska Street, Seattle, Washington 98134. March 2012.

Figures



Source: Sound Earth 2014

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Figure U-1. Alaska Street Reload And Recyling SWPPP Map

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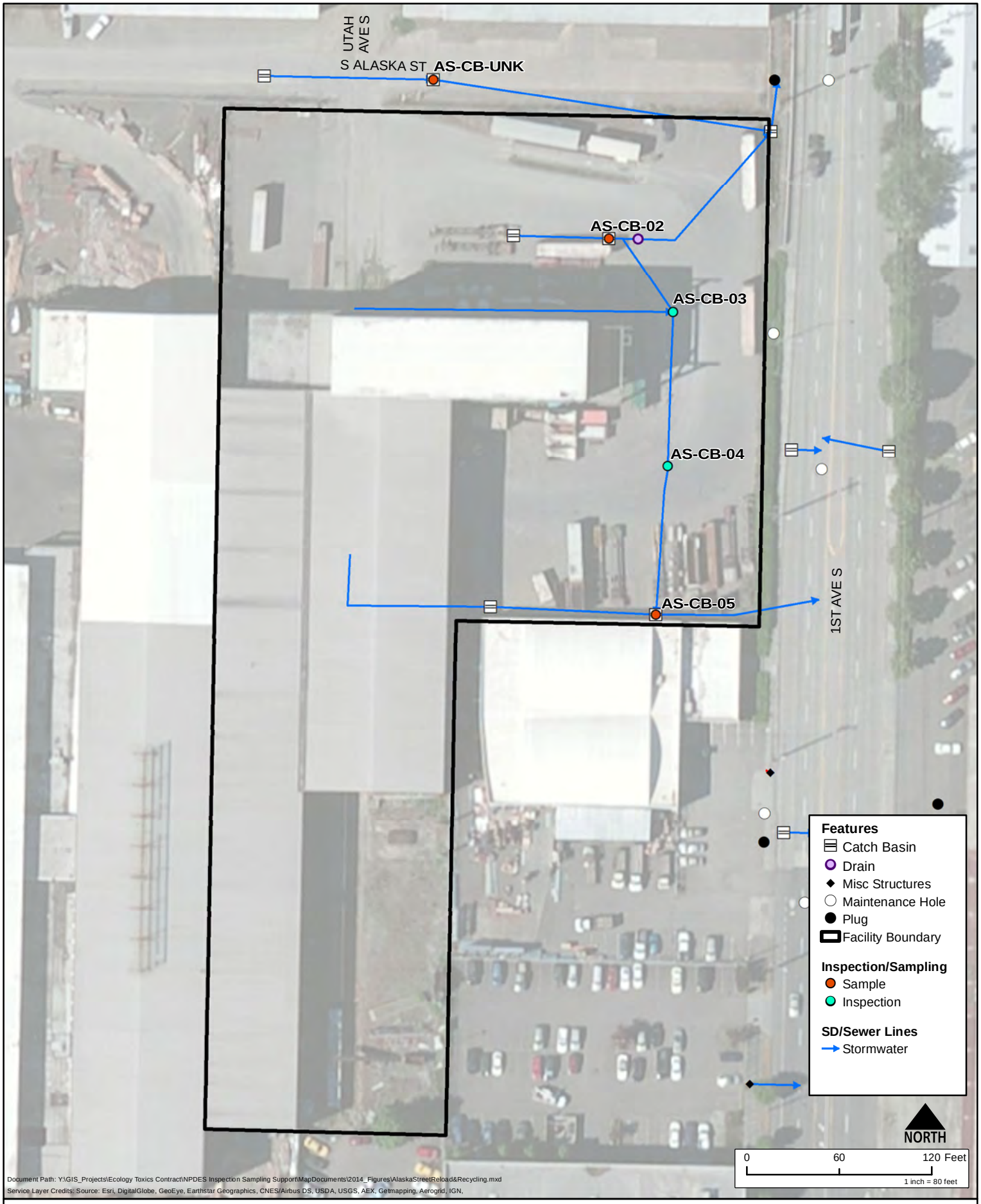

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Figure U-2. Alaska Street Reload and Recycling Inspection and Sampling Locations

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Tables

Acronyms and Abbreviations Used in Tables

<	not detected
%	percent
2LAET	Second Lowest Apparent Effects Threshold
$CaCO_3$	calcium carbonate
CB	chlorobiphenyl
cPAH	carcinogenic polycyclic aromatic hydrocarbon
CSL	Cleanup Screening Level
EF	exceedance factor (sample result / criteria value)
EMPC	estimated maximum possible concentration
EPA	U.S. Environmental Protection Agency
HHO	human health – consumption of organisms only
HPAH	high molecular weight polycyclic aromatic hydrocarbon
ICP-MS	Inductively coupled plasma – mass spectrometry
ISGP	Industrial Stormwater General Permit
J	estimated concentration
JN	estimated concentration
LAET	Lower Apparent Effects Threshold
LDW	Lower Duwamish Waterway
LPAH	low molecular weight polycyclic aromatic hydrocarbon
MA	marine acute
MC	marine chronic
µg/L	micrograms per liter
µmhos/cm	micromhos per centimeter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mS/cm	milliSiemens per centimeter
MTCA	Model Toxics Control Act
na	not analyzed
nd	not detected

ng/kg	nanograms per kilogram
NPDES	National Pollutant Discharge Elimination System
NR WQC	National Recommended Water Quality Criteria
NTR WQC	National Toxics Rule Water Quality Criteria
NTU	Nephelometric Turbidity Units
OC	organic carbon
ORP	Oxidation Reduction Potential
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
pg/L	picograms per liter
PSEP	Puget Sound Estuary Program
R	rejected during data validation review
RAL	Remedial Action Level
RL	reporting limit
SCO	Sediment Cleanup Objective
SDL	sample detection limit
SIM	Selected ion monitoring
SMS	Washington State Sediment Management Standards
std units	standard units
SVOC	Semivolatile organic compound
SW	Surface water
TEQ	toxic equivalency
TPH	Total petroleum hydrocarbon
U	not detected
U*	Flagged as EMPC by the laboratory; this was changed to U (non-detect) during data validation
VOC	volatile organic compound
WA WQC	Washington State Water Quality Criteria
WQC	Water Quality Criteria

Table U-1
Sampling Locations and Analytical Methods
Alaska Street Reload

Analyte	Method	Sample Location / Collection Date		
		AS-CB-02 1/20/2015	AS-CB-05 1/20/2015	AS-CB-UNK 1/20/2015
Water Samples				
Metals (total)	EPA 200.8			●
Mercury (total, dissolved)	EPA 245.1			●
PCB Congeners	EPA 1668C			●
SVOCs	SW 8270D-Low			●
Dioxins/furans	EPA 1613B			●
Alkalinity/Bicarbonate/Carbonate	SM 2320B			●
Anions	EPA 300.0			●
Specific Conductance	EPA 120.1			●
pH	SM 4500H+B			●
Total organic carbon	SM 5310B			●
Dissolved organic carbon	SM 5310B			●
Total suspended solids	SM 2540D			●
Solids Samples				
Metals (total)	SW 6020	●	●	●
Mercury	SW 7471A	●	●	●
PCB Aroclors	EPA 8082	●	●	●
PCB Congeners	EPA 1668C	●	●	●
Dioxins/furans	EPA 1613B	●	●	●
SVOCs	SW 8270D-Low	●	●	●
VOCs	SW 8260B-Low	●	●	●
TPH-diesel/motor oil	NWTPH-Dx	●	●	●
TPH-gasoline	NWTPH-Gx	●	●	●
Grain size	PSEP Plumb 1981	●	●	●
Total organic carbon	PSEP 9060	●	●	●

Bullet indicates a sample was collected for the listed analyte at the specified location.

Table U-2. Water Quality Data - Field Measurements
Alaska Street Reload

		Location ID	AS-CB-UNK
		Collection Date	1/20/2015
Analyte	**ISGP Benchmark**	**Units**	**Result**
Field Parameters			
Flow	--	Yes/No	No
pH	5.0 to 9.0	std units	7.3
Conductivity	--	mS/cm	0.27
Temperature	--	degrees C	9.0
Total Dissolved Solids	--	mg/L	170
Turbidity	25	NTU	**545**
Oil & Grease	No visible sheen	Yes/No	**Yes**
Dissolved Oxygen	--	mg/L	7.6
ORP	--	mV	174

Results in **bold** exceed the ISGP benchmark.

Table U-3. Water Sample Results
Alaska Street Reload

Analyte	ISGP Benchmark	WA WQC Marine Chronic	WA WQC Marine Acute	NTR WQC HHO	NR WQC HHO	Location ID: AS-CB-UNK Collection Date: 1/20/2015 Result	
Total Metals (µg/L)							
Antimony	--	--	--	--	--	**5.0**	
Arsenic	150	36	69	--	--	**6.9**	
Beryllium	--	--	--	--	--	**0.20**	J
Cadmium	2.1	9.4	42	--	--	**0.52**	
Chromium	--	--	--	--	--	**27**	
Chromium, hexavalent	--	--	--	--	--	na	
Copper	14	3.7	5.8	--	--	**65**	
Lead	81.6	8.5	221	--	--	**57**	
Mercury	1.4	0.025	2.1	--	--	**0.25**	
Nickel	--	8.3	75	--	--	**23**	
Selenium	5	71	291	--	--	**1.2**	
Silver	3.8	--	2.2	--	--	**0.13**	**J**
Thallium	--	--	--	--	--	< 1.0	U
Zinc	117	86	95	--	--	**180**	
PCB Congeners (µg/L) [a]							
Total PCB Congeners	--	0.03	10	1.70E-04	6.40E-05	**0.138**	**J**
PCB TEQ, nd SDL*0	--	0.03	10	--	--	**6.66E-06**	**J**
PCB TEQ, nd SDL*0.5	--	0.03	10	--	--	**6.66E-06**	**J**
PCB TEQ, nd SDL*1	--	0.03	10	--	--	**6.72E-06**	**J**
Dioxins and Furans (pg/L) [a]							
2,3,7,8-TCDD	--	--	--	0.014	0.0051	< 1.09	U
1,2,3,7,8-PeCDD	--	--	--	--	--	**2.22**	**J**
1,2,3,4,7,8-HxCDD	--	--	--	--	--	**3.43**	**J**
1,2,3,6,7,8-HxCDD	--	--	--	--	--	**10.3**	**J**
1,2,3,7,8,9-HxCDD	--	--	--	--	--	**7.53**	**J**
1,2,3,4,6,7,8-HpCDD	--	--	--	--	--	**224**	
OCDD	--	--	--	--	--	**2140**	
2,3,7,8-TCDF	--	--	--	--	--	**3.73**	**J**
1,2,3,7,8-PeCDF	--	--	--	--	--	**3.57**	**J**
2,3,4,7,8-PeCDF	--	--	--	--	--	**3.88**	**J**
1,2,3,4,7,8-HxCDF	--	--	--	--	--	**11.3**	**J**
1,2,3,6,7,8-HxCDF	--	--	--	--	--	< 5.81	U*
1,2,3,7,8,9-HxCDF	--	--	--	--	--	**2.07**	**J**
2,3,4,6,7,8-HxCDF	--	--	--	--	--	**9.10**	**J**
1,2,3,4,6,7,8-HpCDF	--	--	--	--	--	**70.6**	
1,2,3,4,7,8,9-HpCDF	--	--	--	--	--	**5.67**	**J**
OCDF	--	--	--	--	--	**192**	
Total TCDD	--	--	--	--	--	**5.95**	**J**
Total PeCDD	--	--	--	--	--	**17.7**	**J**
Total HxCDD	--	--	--	--	--	**88.7**	**J**
Total HpCDD	--	--	--	--	--	**482**	
Total TCDF	--	--	--	--	--	**50.4**	**J**
Total PeCDF	--	--	--	--	--	**128**	**J**
Total HxCDF	--	--	--	--	--	**143**	**J**
Total HpCDF	--	--	--	--	--	**217**	
Dioxin/Furan TEQ, nd SDL*0	--	--	--	--	--	**11.9**	**J**
Dioxin/Furan TEQ, nd SDL*0.5	--	--	--	--	--	**12.8**	**J**
Dioxin/Furan TEQ, nd SDL*1	--	--	--	--	--	**13.6**	**J**

Table U-3. Water Sample Results
Alaska Street Reload

Analyte	ISGP Benchmark	WA WQC Marine Chronic	WA WQC Marine Acute	NTR WQC HHO	NR WQC HHO	Location ID: AS-CB-UNK Collection Date: 1/20/2015 Result		
PAHs (µg/L)								
1-Methylnaphthalene	--	--	--	--	--	<	0.29	U
2-Chloronaphthalene	--	--	--	--	1,600	<	0.29	U
2-Methylnaphthalene	--	--	--	--	--	<	0.95	U
Acenaphthene	--	--	--	--	990	<	0.48	U
Acenaphthylene	--	--	--	--	--	<	0.38	U
Anthracene	--	--	--	110,000	40,000	<	0.19	U
Benzo(a)anthracene	--	--	--	0.031	0.018	<	0.29	U
Benzo(a)pyrene	--	--	--	0.031	0.018	<	0.19	U
Benzo(b)fluoranthene	--	--	--	0.031	0.018	<	0.38	U
Benzo(g,h,i)perylene	--	--	--	--	--	<	0.29	U
Benzo(k)fluoranthene	--	--	--	0.031	0.018	<	0.29	U
Chrysene	--	--	--	0.031	0.018	<	0.19	U
Dibenz(a,h)anthracene	--	--	--	0.031	0.018	<	0.29	U
Dibenzofuran	--	--	--	--	--	<	1.9	U
Fluoranthene	--	--	--	370	140		**0.2**	**J**
Fluorene	--	--	--	14,000	5,300		**0.11**	**J**
Indeno(1,2,3-cd)pyrene	--	--	--	0.031	0.018	<	0.29	U
Naphthalene	--	--	--	--	--	<	1.9	U
Phenanthrene	--	--	--	--	--	<	0.38	U
Pyrene	--	--	--	11,000	4,000		**0.19**	**J**
Total Benzofluoranthenes	--	--	--	--	--	<	0.38	U
Total HPAHs	--	--	--	--	--		**0.39**	**J**
Total LPAHs	--	--	--	--	--		**0.11**	**J**
Total PAHs	--	--	--	--	--		**0.50**	**J**
cPAHs, nd RL*0	--	--	--	--	--	<	0	U
cPAHs, nd RL*0.5	--	--	--	--	--	<	0.17	U
cPAHs, nd RL*1	--	--	--	--	--	<	0.35	U
Phthalates (µg/L)								
bis(2-Ethylhexyl)phthalate	--	--	--	5.9	2.2	<	14	U
Butylbenzylphthalate	--	--	--	--	1,900	<	2.9	U
Di-n-Butylphthalate	--	--	--	12,000	4,500	<	1.9	U
Diethylphthalate	--	--	--	120,000	44,000	<	1.9	U
Dimethylphthalate	--	--	--	2,900,000	1,100,000	<	1.9	U
Di-n-Octyl phthalate	--	--	--	--	--	<	1.9	U
Phenols (µg/L)								
2,3,4,6-Tetrachlorophenol	--	--	--	--	--	<	3.3	U
2,4,5-Trichlorophenol	--	--	--	--	3,600	<	1.9	U
2,4,6-Trichlorophenol	--	--	--	6.5	2.4	<	2.9	U
2,4-Dichlorophenol	--	--	--	790	290	<	1.9	U
2,4-Dimethylphenol	--	--	--	--	850	<	9.5	U
2,4-Dinitrophenol	--	--	--	14,000	5,300	<	24	U
2-Chlorophenol	--	--	--	--	150	<	1.9	U
2-Methylphenol	--	--	--	--	--		**0.5**	**J**
2-Nitrophenol	--	--	--	--	--	<	1.9	U
4,6-Dinitro-2-Methylphenol	--	--	--	765	280	<	19	U
4-Chloro-3-methylphenol	--	--	--	--	--	<	1.9	U
4-Methylphenol	--	--	--	--	--		**1.1**	**J**
4-Nitrophenol	--	--	--	--	--		**5.5**	**J**

Table U-3. Water Sample Results
Alaska Street Reload

Analyte	ISGP Benchmark	WA WQC Marine Chronic	WA WQC Marine Acute	NTR WQC HHO	NR WQC HHO	Location ID: AS-CB-UNK; Collection Date: 1/20/2015 Result		
Pentachlorophenol	--	7.9	13	8.2	3.0	<	3.3	UJ
Phenol	--	--	--	4,600,000	860,000		**2.0**	**J**
Other SVOCs (µg/L)								
1,2,4-Trichlorobenzene	--	--	--	--	70	<	1.9	U
1,2-Dichlorobenzene	--	--	--	17,000	1,300	<	1.9	U
1,3-Dichlorobenzene	--	--	--	2,600	960	<	1.9	U
1,4-Dichlorobenzene	--	--	--	2,600	190	<	1.9	U
2,4-Dinitrotoluene	--	--	--	9.1	3.4	<	1.9	U
2,6-Dinitrotoluene	--	--	--	--	--	<	1.9	U
2-Nitroaniline	--	--	--	--	--	<	1.9	U
3,3'-Dichlorobenzidine	--	--	--	0.077	0.028	<	9.5	U
3-Nitroaniline	--	--	--	--	--	<	1.9	U
4-Bromophenyl-phenylether	--	--	--	--	--	<	1.9	U
4-Chloroaniline	--	--	--	--	--	<	1.9	U
4-Chlorophenyl-phenylether	--	--	--	--	--	<	1.9	U
4-Nitroaniline	--	--	--	--	--	<	2.9	U
Benzoic Acid	--	--	--	--	--		**5.2**	**J**
Benzyl Alcohol	--	--	--	--	--	<	1.9	U
2,2'-Oxybis(1-Chloropropane)	--	--	--	170,000	65,000	<	1.9	U
bis(2-Chloroethoxy) Methane	--	--	--	--	--	<	1.9	U
Bis-(2-Chloroethyl) Ether	--	--	--	1.4	0.53	<	1.9	U
Carbazole	--	--	--	--	--	<	1.9	U
Hexachlorobenzene	--	--	--	0.00077	0.00029	<	1.9	U
Hexachlorobutadiene	--	--	--	50	18	<	2.9	U
Hexachlorocyclopentadiene	--	--	--	17,000	1,100	<	9.5	U
Hexachloroethane	--	--	--	8.9	3.3	<	2.9	U
Isophorone	--	--	--	600	960	<	1.9	U
Nitrobenzene	--	--	--	1,900	690	<	1.9	U
N-Nitrosodimethylamine	--	--	--	8.1	3.0	<	9.5	U
N-Nitroso-Di-N-Propylamine	--	--	--	--	0.51	<	1.9	U
N-Nitrosodiphenylamine	--	--	--	16	6.0	<	1.9	U

Results in **bold** are detections.

Results that are shaded in gray exceed one or more criteria.

a - Total PCB congeners and PCB/dioxin/furan TEQs include only congeners that met identification criteria as required by EPA Method1668C (PCBs) or EPA Method 1613B (dioxins/furans).

PCB and dioxin/furan congeners identified with a U* qualifier were tagged as "estimated maximum possible concentrations" by the laboratory. This was changed to non-detect (U) during data validation.

Table U-4. Water Sample Results Compared to Criteria
Alaska Street Reload

Location ID	AS-CB-UNK				
Collection Date	1/20/2015				
	Exceedance Factor				
Analyte	ISGP Benchmark	WA Marine Chronic	WA Marine Acute	NTR Human Health - Organisms	NR Human Health - Organisms
Total Metals					
Copper	4.6	17	11		
Lead		6.7			
Mercury		10			
Nickel		2.8			
Zinc	1.5	2.1	1.9		
PCB Congeners					
Total PCB Congeners		4.6		812	2,156

Exceedance Factors (EFs) are presented for detected concentrations only.

Only chemicals with EF > 1 are shown.

The EFs are calculated (result divided by criterion) and have no regulatory relevance. They provide an indication of the general magnitude of the concentration relative to the WA, NTR, or NR Water Quality Criteria.

Table U-5. Water Sample Results - PCB Congeners
Alaska Street Reload

Location ID	AS-CB-UNK	
Collection Date	2/20/2015	
Analyte	Result	
Total PCB Congeners (µg/L)	0.138	J
Total PCB Congeners (pg/L)	138,000	J
Total Mono-CB (pg/L)	41.6	
PCB-1	18.4	
PCB-2	7.37	
PCB-3	15.8	
Total Di-CB (pg/L)	1,830	
PCB-4/10	52.1	
PCB-5/8	173	
PCB-6	49.5	
PCB-7/9	21.1	
PCB-11	1,300	
PCB-12/13	27.0	
PCB-14	< 9.25	U
PCB-15	207	
Total Tri-CB (pg/L)	2,790	J
PCB-16/32	290	
PCB-17	146	
PCB-18	414	
PCB-19	44.4	
PCB-20/21/33	275	
PCB-22	190	
PCB-23	< 4.37	U
PCB-24/27	51.8	
PCB-25	81.6	
PCB-26	150	
PCB-28	429	
PCB-29	< 3.04	U*
PCB-30	< 0.837	U
PCB-31	447	
PCB-34	< 4.08	U
PCB-35	27.7	
PCB-36	4.98	J
PCB-37	225	
PCB-38	11.5	
PCB-39	< 4.51	U
Total Tetra-CB (pg/L)	8,230	J
PCB-40	146	
PCB-41/64/71/72	679	
PCB-42/59	229	
PCB-43/49	741	
PCB-44	939	
PCB-45	114	
PCB-46	49.3	
PCB-47	242	
PCB-48/75	83.0	
PCB-50	2.77	J
PCB-51	46.3	
PCB-52/69	1,560	
PCB-53	145	
PCB-54	2.84	J
PCB-55	35.8	

Table U-5. Water Sample Results - PCB Congeners
Alaska Street Reload

Location ID	AS-CB-UNK	
Collection Date	2/20/2015	
Analyte	Result	
PCB-56/60	458	
PCB-57	8.46	
PCB-58	3.25	J
PCB-61/70	1,170	
PCB-62	< 2.32	U
PCB-63	24.5	
PCB-65	< 2.40	U
PCB-67	28.6	
PCB-68	9.89	
PCB-73	< 2.34	U
PCB-74	325	
PCB-76/66	871	
PCB-77	228	
PCB-78	< 2.25	U
PCB-79	63.9	
PCB-80	< 1.93	U
PCB-81	27.8	
Total Penta-CB (pg/L)	36,600	
PCB-82	724	
PCB-83	< 4.83	U
PCB-84/92	2,510	
PCB-85/116	937	
PCB-86	< 7.78	U
PCB-87/117/125	1,900	
PCB-88/91	817	
PCB-89	31.8	
PCB-90/101	5,590	
PCB-93	< 7.31	U
PCB-94	35.8	
PCB-95/98/102	4,380	
PCB-96	35.4	
PCB-97	1,470	
PCB-99	2,330	
PCB-100	18.2	
PCB-103	32.8	
PCB-104	< 4.56	U
PCB-105	1,380	
PCB-106/118	4,170	
PCB-107/109	292	
PCB-108/112	232	
PCB-110	8,880	
PCB-111/115	106	
PCB-113	< 5.54	U
PCB-114	49.1	
PCB-119	91.3	
PCB-120	11.0	
PCB-121	< 4.41	U
PCB-122	78.2	
PCB-123	104	
PCB-124	289	
PCB-126	63.4	
PCB-127	< 4.72	U

Table U-5. Water Sample Results - PCB Congeners
Alaska Street Reload

Location ID	AS-CB-UNK	
Collection Date	2/20/2015	
Analyte	Result	
Total Hexa-CB (pg/L)	52,900	J
PCB-128/162	2,340	
PCB-129	645	
PCB-130	936	
PCB-131	< 8.43	U
PCB-132/161	3,450	
PCB-133/142	313	
PCB-134/143	659	
PCB-135	1,660	
PCB-136	1,300	
PCB-137	612	
PCB-138/163/164	13,200	
PCB-139/149	8,710	
PCB-140	54.9	
PCB-141	2,410	
PCB-144	378	
PCB-145	3.75	J
PCB-146/165	1,750	
PCB-147	195	
PCB-148	< 7.89	U*
PCB-150	< 10.7	U*
PCB-151	2,170	
PCB-152	11.1	
PCB-153	8,950	
PCB-154	92.0	
PCB-155	< 4.57	U
PCB-156	812	
PCB-157	323	
PCB-158/160	1,360	
PCB-159	< 6.18	U
PCB-166	37.5	
PCB-167	553	
PCB-168	< 6.91	U*
PCB-169	< 3.99	U*
Total Hepta-CB (pg/L)	27,100	
PCB-170	3,310	
PCB-171	876	
PCB-172	602	
PCB-173	85.6	
PCB-174	3,650	
PCB-175	117	
PCB-176	381	
PCB-177	2,020	
PCB-178	588	
PCB-179	1,310	
PCB-180	7,320	
PCB-181	< 2.72	U
PCB-182/187	3,670	
PCB-183	1,630	
PCB-184	9.58	
PCB-185	389	
PCB-186	< 1.60	U

Table U-5. Water Sample Results - PCB Congeners
Alaska Street Reload

Location ID	AS-CB-UNK	
Collection Date	**2/20/2015**	
Analyte	**Result**	
PCB-188	8.36	
PCB-189	125	
PCB-190	584	
PCB-191	113	
PCB-192	< 2.11	U
PCB-193	294	
Total Octa-CB (pg/L)	7,010	
PCB-194	1,510	
PCB-195	731	
PCB-196/203	1,810	
PCB-197	61.2	
PCB-198	103	
PCB-199	1,840	
PCB-200	230	
PCB-201	242	
PCB-202	407	
PCB-204	< 3.38	U
PCB-205	76.7	
Total Nona-CB (pg/L)	1,350	
PCB-206	1,000	
PCB-207	105	
PCB-208	245	
Deca-CB (pg/L)	204	
PCB-209	204	
PCB TEQ, nd SDL*0	6.60	J
PCB TEQ, nd SDL*0.5	6.66	J
PCB TEQ, nd SDL*1	6.72	J

Total PCB congeners and total PCB homologs include only congeners that met identification criteria as required by EPA Method 1668C.

Table U-6. Water Sample Results - Conventionals
Alaska Street Reload

		Location ID	AS-CB-UNK	
		Collection	1/20/2015	
Analyte	ISGP Benchmark	Units	Result	
Conventionals				
Alkalinity	--	mg/L	67	
Bicarbonate	--	mg/L $CaCO_3$	67	
Carbonate	--	mg/L $CaCO_3$	< 5	U
Chloride	--	mg/L	17	J
Specific Conductance	--	µmhos/cm	220	
Hydroxide	--	mg/L $CaCO_3$	na	
Nitrate	--	mg/L	0.45	J
pH	5-9	std units	8.65	J
Salinity	--	mg/L	na	
Sulfate	--	mg/L	19	
Dissolved Organic Carbon	--	mg/L	7.9	
Total Organic Carbon	--	mg/L	9.1	
Total Suspended Solids[a]	30	mg/L	44	
Turbidity	25	NTU	na	
Oil & Grease	--	mg/L	na	
Oil & Grease - Polar	--	mg/L	na	
Oil & Grease - Silica Gel Treated	--	mg/L	na	

a - The ISGP benchmark for Total Suspended Solids becomes effective on January 1, 2017.

Shaded results exceed the ISGP benchmark for that parameter.

Table U-7. Solids Sample Results
Alaska Street Reload

Analyte	SMS Criteria SCO/ LAET[a]	SMS Criteria CSL/ 2LAET	Unit	Location ID: AS-CB-02 Collection Date: 1/20/2015 Result	AS-CB-05 1/20/2015 Result	AS-CB-UNK 1/20/2015 Result
Metals (Total) (mg/kg)						
Antimony	--	--	mg/kg	**7.0**	**7.8**	**9.3**
Arsenic	57	93	mg/kg	**14**	**16**	**19**
Beryllium	--	--	mg/kg	**0.5**	**0.55**	**0.35**
Cadmium	5.1	6.7	mg/kg	**1.2**	**1.2**	**1.1**
Chromium	260	270	mg/kg	**88**	**97**	**68**
Copper	390	390	mg/kg	**120**	**130**	**140**
Lead	450	530	mg/kg	**100**	**110**	**180**
Mercury	0.41	0.59	mg/kg	**0.49**	**0.43**	**0.23**
Nickel	--	--	mg/kg	**70**	**78**	**58**
Selenium	--	--	mg/kg	**2.1 J**	**2.3 J**	**1.2**
Silver	6.1	6.1	mg/kg	**0.39 J**	**0.43 J**	**0.37**
Thallium	--	--	mg/kg	< 0.9 U	< 0.95 U	< 0.48 U
Zinc	410	960	mg/kg	**490**	**540**	**420**
PCB Aroclors (µg/kg)						
Aroclor 1016	--	--	µg/kg	< 21 U	< 27 U	< 16 U
Aroclor 1221	--	--	µg/kg	< 23 U	< 30 U	< 18 U
Aroclor 1232	--	--	µg/kg	< 23 U	< 30 U	< 18 U
Aroclor 1242	--	--	µg/kg	< 21 U	< 27 U	< 16 U
Aroclor 1248	--	--	µg/kg	< 21 U	< 27 U	< 16 U
Aroclor 1254	--	--	µg/kg	< 21 U	< 27 U	< 16 U
Aroclor 1260	--	--	µg/kg	**140**	**100**	**130**
Total PCB Aroclors	130	1,000	µg/kg	**140**	**100**	**130**
PCB Congeners (µg/kg) [b]						
Total PCB Congeners	130	1,000	µg/kg	**701 J**	**471 J**	**426 J**
PCB TEQ, nd SDL*0	--	--	µg/kg	**0.0331**	**0.0263**	**0.0226 J**
PCB TEQ, nd SDL*0.5	--	--	µg/kg	**0.034**	**0.0282**	**0.0235 J**
PCB TEQ, nd SDL*1	--	--	µg/kg	**0.0358**	**0.0302**	**0.0245 J**
Dioxins and Furans (ng/kg)						
2,3,7,8-TCDD	--	--	ng/kg	**0.664**	< 1.17 U*	**0.478 J**
1,2,3,7,8-PeCDD	--	--	ng/kg	**3.57**	**7.3**	**2.59**
1,2,3,4,7,8-HxCDD	--	--	ng/kg	**5.5**	**11.8**	**3.83**
1,2,3,6,7,8-HxCDD	--	--	ng/kg	**33.5**	**27.5**	**11.9**
1,2,3,7,8,9-HxCDD	--	--	ng/kg	**22.5**	**21.9**	**7.73**
1,2,3,4,6,7,8-HpCDD	--	--	ng/kg	**417**	**521**	**235**
OCDD	--	--	ng/kg	**2,540**	**3,830**	**2,270**
2,3,7,8-TCDF	--	--	ng/kg	**4.08**	**7.1**	**4.52**
1,2,3,7,8-PeCDF	--	--	ng/kg	**2.69**	**4.83**	**3.1**
2,3,4,7,8-PeCDF	--	--	ng/kg	**5.96**	**8.15**	**4.88**
1,2,3,4,7,8-HxCDF	--	--	ng/kg	**6.86**	**11.4**	**9.53**
1,2,3,6,7,8-HxCDF	--	--	ng/kg	**5.31**	**9.45**	**6.02**
1,2,3,7,8,9-HxCDF	--	--	ng/kg	**1.85 J**	**3.16**	**2.17 J**
2,3,4,6,7,8-HxCDF	--	--	ng/kg	**7.27**	**13.2**	**9.71**
1,2,3,4,6,7,8-HpCDF	--	--	ng/kg	**63.7**	**116**	**72.8**
1,2,3,4,7,8,9-HpCDF	--	--	ng/kg	**4.31**	**7.81**	**5.04**
OCDF	--	--	ng/kg	**141**	**242**	**189**
Dioxin/Furan TEQ, nd SDL*0	25	--	ng/kg	**20.4 J**	**28.1**	**14.0 J**
Dioxin/Furan TEQ, nd SDL*0.5	25	--	ng/kg	**20.4 J**	**28.7**	**14.0 J**
Dioxin/Furan TEQ, nd SDL*1	25	--	ng/kg	**20.4 J**	**29.3**	**14.0 J**

Table U-7. Solids Sample Results
Alaska Street Reload

Analyte	SMS Criteria SCO/ LAET[a]	SMS Criteria CSL/ 2LAET	Unit	Location ID / Collection Date	AS-CB-02 1/20/2015 Result	AS-CB-05 1/20/2015 Result	AS-CB-UNK 1/20/2015 Result
Total TCDD	--	--	ng/kg		31.1 J	51.8 J	22.5 J
Total TCDF	--	--	ng/kg		90.4 J	147	103
Total PeCDD	--	--	ng/kg		45	89.5	35.4
Total PeCDF	--	--	ng/kg		119	172 J	181
Total HxCDD	--	--	ng/kg		252	287	105
Total HxCDF	--	--	ng/kg		118	206 J	164
Total HpCDD	--	--	ng/kg		888	1160	505
Total HpCDF	--	--	ng/kg		174	295	230
PAHs (µg/kg)							
1-Methylnaphthalene	--	--	µg/kg		210	170	69
2-Chloronaphthalene	--	--	µg/kg		< 44 U	< 54 U	< 33 U
2-Methylnaphthalene	670	1,400	µg/kg		280	270	100
Acenaphthene	500	730	µg/kg		70	27 J	100
Acenaphthylene	1,300	1,300	µg/kg		52	35 J	33
Anthracene	960	4,400	µg/kg		170	350	130
Benzo(a)anthracene	1,300	1,600	µg/kg		380	290	410
Benzo(a)pyrene	1,600	3,000	µg/kg		450	280	430
Benzo(g,h,i)perylene	670	720	µg/kg		280	150	190
Chrysene	1,400	2,800	µg/kg		820	620	700
Dibenz(a,h)anthracene	230	540	µg/kg		42 J	< 110 U	73
Dibenzofuran	540	700	µg/kg		74 J	< 270 U	44 J
Fluoranthene	1,700	2,500	µg/kg		1,100	860	1,000
Fluorene	540	1,000	µg/kg		140	82	85
Indeno(1,2,3-cd)pyrene	600	690	µg/kg		230	130	120
Naphthalene	2,100	2,400	µg/kg		120	130	59
Phenanthrene	1,500	5,400	µg/kg		710	490	520
Pyrene	2,600	3,300	µg/kg		1,300	900	1,100
Total Benzofluoranthenes	3,200	3,600	µg/kg		930	850	1,000
Total HPAHs	12,000	17,000	µg/kg		5,500 J	4,100	5,000
Total LPAHs	5,200	13,000	µg/kg		1,300	1,100 J	930
cPAHs, nd RL*0	1,000	--	µg/kg		620 J	410	600
cPAHs, nd RL*0.5	1,000	--	µg/kg		620 J	420	600
cPAHs, nd RL*1	1,000	--	µg/kg		620 J	420	600
Phthalates (µg/kg)							
bis(2-Ethylhexyl)phthalate	1,300	1,900	µg/kg		13,000	41,000	3,200
Butylbenzylphthalate	63	900	µg/kg		910	< 390 U	< 290 U
Di-n-Butylphthalate	1,400	5,100	µg/kg		< 1100 U	< 1300 U	< 820 U
Diethylphthalate	200	1,200	µg/kg		< 440 U	< 540 U	< 330 U
Dimethylphthalate	71	160	µg/kg		94 J	27 J	< 160 U
Di-n-Octyl phthalate	6,200	--	µg/kg		370 J	2000	240 J
Phenols (µg/kg)							
2,4,5-Trichlorophenol	--	--	µg/kg		< 220 U	< 270 U	< 160 U
2,4,6-Trichlorophenol	--	--	µg/kg		< 330 U	< 400 U	< 250 U
2,4-Dichlorophenol	--	--	µg/kg		< 220 U	< 270 U	< 160 U
2,4-Dimethylphenol	29	29	µg/kg		< 220 U	< 270 U	< 160 U
2,4-Dinitrophenol	--	--	µg/kg		< 2,200 U	< 2,700 U	< 1,600 U
2-Chlorophenol	--	--	µg/kg		< 220 U	< 270 U	< 160 U
2-Methylphenol	63	63	µg/kg		< 220 U	52 J	< 160 U
2-Nitrophenol	--	--	µg/kg		< 220 U	< 270 U	< 160 U

Table U-7. Solids Sample Results
Alaska Street Reload

Analyte	SMS Criteria SCO/ LAET[a]	SMS Criteria CSL/ 2LAET	Unit	Location ID / Collection Date	AS-CB-02 1/20/2015 Result	AS-CB-05 1/20/2015 Result	AS-CB-UNK 1/20/2015 Result
4,6-Dinitro-2-Methylphenol	--	--	µg/kg		< 2,200 U	< 2,700 U	< 1,600 U
4-Chloro-3-methylphenol	--	--	µg/kg		< 220 U	< 270 U	< 160 U
4-Methylphenol	670	670	µg/kg		**4,400**	**240 J**	**850**
4-Nitrophenol	--	--	µg/kg		< 2,200 U	< 2,700 U	< 1,600 U
Pentachlorophenol	360	690	µg/kg		< 440 U	< 540 U	< 330 U
Phenol	420	1,200	µg/kg		**420**	< 270 U	220
Other SVOCs (µg/kg)							
1,2,4-Trichlorobenzene	31	51	µg/kg		< 110 U	< 130 U	< 82 U
1,2-Dichlorobenzene	35	50	µg/kg		< 120 U	< 150 U	< 90 U
1,3-Dichlorobenzene	--	--	µg/kg		< 110 U	< 130 U	< 82 U
1,4-Dichlorobenzene	110	120	µg/kg		< 110 U	< 130 U	< 82 U
2,4-Dinitrotoluene	--	--	µg/kg		< 220 U	< 270 U	< 160 U
2,6-Dinitrotoluene	--	--	µg/kg		< 220 U	< 270 U	< 160 U
2-Nitroaniline	--	--	µg/kg		< 220 U	< 270 U	< 160 U
3,3'-Dichlorobenzidine	--	--	µg/kg		< 440 U	< 540 U	< 330 U
3-Nitroaniline	--	--	µg/kg		< 220 U	< 270 U	< 160 U
4-Bromophenyl-phenylether	--	--	µg/kg		< 220 U	< 270 U	< 160 U
4-Chloroaniline	--	--	µg/kg		< 220 U	< 270 U	< 160 U
4-Chlorophenyl-phenylether	--	--	µg/kg		< 220 U	< 270 U	< 160 U
4-Nitroaniline	--	--	µg/kg		< 220 U	< 270 U	< 160 U
Benzoic Acid	650	650	µg/kg		< 5,600 U	< 6,700 U	< 4,100 U
Benzyl Alcohol	57	73	µg/kg		< 220 U	**56 J**	< 160 U
2,2'-Oxybis(1-Chloropropane)	--	--	µg/kg		< 560 U	< 670 U	< 410 U
bis(2-Chloroethoxy) Methane	--	--	µg/kg		< 220 U	< 270 U	< 160 U
Bis-(2-Chloroethyl) Ether	--	--	µg/kg		< 220 U	< 270 U	< 160 U
Carbazole	--	--	µg/kg		**79 J**	**97 J**	**46 J**
Hexachlorobenzene	22	70	µg/kg		< 110 U	< 130 U	< 82 U
Hexachlorobutadiene	11	120	µg/kg		< 110 U	< 130 U	< 82 U
Hexachlorocyclopentadiene	--	--	µg/kg		< 220 U	< 270 U	< 160 U
Hexachloroethane	--	--	µg/kg		< 220 U	< 270 U	< 160 U
Isophorone	--	--	µg/kg		< 220 U	< 270 U	< 160 U
Nitrobenzene	--	--	µg/kg		< 220 U	< 270 U	< 160 U
N-Nitrosodimethylamine	--	--	µg/kg		< 2200 U	< 2700 U	< 1600 U
N-Nitroso-Di-N-Propylamine	--	--	µg/kg		< 220 U	< 270 U	< 160 U
N-Nitrosodiphenylamine	28	40	µg/kg		**190**	**51 J**	**52 J**
VOCs (µg/kg)							
1,1,1,2-Tetrachloroethane	--	--	µg/kg		< 2.5 UJ	< 2.1 UJ	< 1.5 UJ
1,1,1-Trichloroethane	--	--	µg/kg		< 2.5 U	< 2.1 UJ	< 1.5 UJ
1,1,2,2-Tetrachloroethane	--	--	µg/kg		< 5 UJ	< 4.2 UJ	< 3.1 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	--	--	µg/kg		< 2.5 U	< 2.1 UJ	< 1.5 UJ
1,1,2-Trichloroethane	--	--	µg/kg		< 5 UJ	< 4.2 UJ	< 3.1 UJ
1,1-Dichloroethane	--	--	µg/kg		< 2.5 U	< 2.1 UJ	< 1.5 UJ
1,1-Dichloroethene	--	--	µg/kg		< 12 U	< 10 UJ	< 7.6 UJ
1,1-Dichloropropene	--	--	µg/kg		< 2.5 U	< 2.1 UJ	< 1.5 UJ
1,2,3-Trichlorobenzene	--	--	µg/kg		< 5 UJ	< 4.2 UJ	< 3.1 UJ
1,2,3-Trichloropropane	--	--	µg/kg		< 2.5 UJ	< 2.1 UJ	< 1.5 UJ
1,2,4-Trimethylbenzene	--	--	µg/kg		**28 J**	**88 J**	**18 J**
1,2-Dibromo-3-chloropropane	--	--	µg/kg		< 5 UJ	< 4.2 UJ	< 3.1 UJ
1,2-Dibromoethane	--	--	µg/kg		< 2.5 UJ	< 2.1 UJ	< 1.5 UJ
1,2-Dichloroethane	--	--	µg/kg		< 2.5 U	< 2.1 UJ	< 1.5 UJ

Table U-7. Solids Sample Results
Alaska Street Reload

Analyte	SMS Criteria SCO/ LAET[a]	SMS Criteria CSL/ 2LAET	Unit	Location ID	AS-CB-02		AS-CB-05		AS-CB-UNK	
				Collection Date	1/20/2015		1/20/2015		1/20/2015	
					Result		Result		Result	
1,2-Dichloropropane	--	--	µg/kg		< 2.5	U	< 2.1	UJ	< 1.5	UJ
1,3,5-Trimethylbenzene	--	--	µg/kg		**13**	**J**	**33**	**J**	**8.1**	**J**
1,3-Dichloropropane	--	--	µg/kg		< 5	UJ	< 4.2	UJ	< 3.1	UJ
2,2-Dichloropropane	--	--	µg/kg		< 12	U	< 10	UJ	< 7.6	UJ
2-Chloroethylvinylether	--	--	µg/kg		< 12	UJ	< 10	UJ	< 7.6	UJ
2-Chlorotoluene	--	--	µg/kg		< 5	UJ	< 4.2	UJ	< 3.1	UJ
2-Hexanone	--	--	µg/kg		< 12	UJ	**7.4**	**J**	< 7.6	UJ
4-Chlorotoluene	--	--	µg/kg		< 5	UJ	< 4.2	UJ	< 3.1	UJ
Acetone	--	--	µg/kg		**460**	**J**	**450**	**J**	**190**	**J**
Acrolein	--	--	µg/kg		< 74	U	< 62	UJ	< 46	UJ
Acrylonitrile	--	--	µg/kg		< 25	U	< 21	UJ	< 15	UJ
Benzene	--	--	µg/kg		**2.0**	**J**	**3.7**	**J**	**1.8**	**J**
Bromobenzene	--	--	µg/kg		< 5	UJ	< 4.2	UJ	< 3.1	UJ
Bromochloromethane	--	--	µg/kg		< 5	U	< 4.2	UJ	< 3.1	UJ
Bromoform	--	--	µg/kg		< 2.5	UJ	< 2.1	UJ	< 1.5	UJ
Bromomethane	--	--	µg/kg		< 2.5	U	< 2.1	UJ	< 1.5	UJ
Carbon Disulfide	--	--	µg/kg		**35**		**53**	**J**	**6.5**	**J**
Carbon Tetrachloride	--	--	µg/kg		< 2.5	U	< 2.1	UJ	< 1.5	UJ
Chlorobenzene	--	--	µg/kg		< 2.5	UJ	< 2.1	UJ	< 1.5	UJ
Dibromochloromethane	--	--	µg/kg		< 2.5	U	, 2.1	UJ	< 1.5	UJ
Chloroethane	--	--	µg/kg		< 2.5	U	< 2.1	UJ	< 1.5	UJ
Chloroform	--	--	µg/kg		< 2.5	U	< 2.1	UJ	< 1.5	UJ
Chloromethane	--	--	µg/kg		< 2.5	U	< 2.1	UJ	< 1.5	UJ
cis-1,2-Dichloroethene	--	--	µg/kg		< 2.5	U	< 2.1	UJ	< 1.5	UJ
cis-1,3-Dichloropropene	--	--	µg/kg		< 2.5	UJ	< 2.1	UJ	< 1.5	UJ
Dibromomethane	--	--	µg/kg		< 2.5	U	< 2.1	UJ	< 1.5	UJ
Bromodichloromethane	--	--	µg/kg		< 2.5	U	< 2.1	UJ	< 1.5	UJ
Dichlorodifluoromethane	--	--	µg/kg		< 2.5	U	< 2.1	UJ	< 1.5	UJ
Ethylbenzene	--	--	µg/kg		**3.1**	**J**	**14**	**J**	**3**	**J**
Isopropylbenzene	--	--	µg/kg		**1.5**	**J**	**2.7**	**J**	< 3.1	UJ
m,p-Xylene	--	--	µg/kg		**9.7**	**J**	**32**	**J**	**8.8**	**J**
2-Butanone	--	--	µg/kg		< 25	U	< 21	UJ	< 15	UJ
Iodomethane	--	--	µg/kg		< 37	U	< 31	UJ	< 23	UJ
4-Methyl-2-Pentanone (MIBK)	--	--	µg/kg		**65**	**J**	**21**	**J**	**51**	**J**
Methyl tert-Butyl Ether	--	--	µg/kg		< 2.5	U	< 2.1	UJ	< 1.5	UJ
Methylene Chloride	--	--	µg/kg		< 37	U	< 31	UJ	< 23	UJ
n-Butylbenzene	--	--	µg/kg		< 5	UJ	< 4.2	UJ	< 3.1	UJ
n-Propylbenzene	--	--	µg/kg		**6.2**	**J**	**11**	**J**	**4.0**	**J**
o-Xylene	--	--	µg/kg		**5.1**	**J**	**21**	**J**	**5.1**	**J**
4-Isopropyltoluene	--	--	µg/kg		**12**	**J**	**30**	**J**	**5.7**	**J**
sec-Butylbenzene	--	--	µg/kg		**6**	**J**	**8.5**	**J**	< 3.1	UJ
Styrene	--	--	µg/kg		**1.6**	**J**	**1**	**J**	**0.67**	**J**
tert-Butylbenzene	--	--	µg/kg		< 5	UJ	< 4.2	UJ	< 3.1	UJ
Tetrachloroethene	--	--	µg/kg		< 2.5	UJ	< 2.1	UJ	< 1.5	UJ
Toluene	--	--	µg/kg		**13**	**J**	**220**	**J**	**11**	**J**
Total Xylenes	--	--	µg/kg		**160**	**J**	**53**	**J**	**14**	**J**
trans-1,2-Dichloroethene	--	--	µg/kg		< 2.5	U	< 2.1	UJ	< 1.5	UJ
trans-1,3-Dichloropropene	--	--	µg/kg		< 2.5	UJ	< 2.1	UJ	< 1.5	UJ
trans-1,4-Dichloro-2-butene	--	--	µg/kg		< 12	UJ	< 10	UJ	< 7.6	UJ
Trichloroethene	--	--	µg/kg		< 2.5	U	< 2.1	UJ	< 1.5	UJ

Table U-7. Solids Sample Results
Alaska Street Reload

Analyte	SMS Criteria SCO/ LAET[a]	SMS Criteria CSL/ 2LAET	Unit	Location ID: AS-CB-02 Collection Date: 1/20/2015 Result	Location ID: AS-CB-05 Collection Date: 1/20/2015 Result	Location ID: AS-CB-UNK Collection Date: 1/20/2015 Result
Trichlorofluoromethane	--	--	µg/kg	< 2.5 U	< 2.1 UJ	< 1.5 UJ
Vinyl Acetate	--	--	µg/kg	< 12 U	< 10 UJ	< 7.6 UJ
Vinyl Chloride	--	--	µg/kg	< 2.5 U	**1.8 J**	**1.4 J**
TPH (mg/kg)						
Gasoline-Range Hydrocarbons	30/100	--	mg/kg	**94 J**	**16 J**	**86**
Diesel-Range Hydrocarbons	2,000	--	mg/kg	**1,500 J**	**1,400 J**	**480 J**
Motor Oil-Range Hydrocarbons	2,000	--	mg/kg	**5,100 J**	**8,500 J**	**2,800 J**
Grain size (%)						
Clay	--	--	%	20	14	16
Silt	--	--	%	55	61	51
Sand	--	--	%	23	24	32
Gravel	--	--	%	2.3	1.4	0.50
Cobbles	--	--	%	0.0	0.0	0.0
Conventionals (%)						
Total Organic Carbon	--	--	%	11	11	6.1
Total Solids	--	--	%	43.3	35.7	59.6

a - LDW RALs are presented for cPAHs and dioxin/furan TEQs. MTCA Method A cleanup levels for soil are presented for TPH.

b - Total PCB congeners and PCB/dioxin/furan TEQs include only congeners that met identification criteria as required by EPA Method1668C (PCBs) or EPA Method 1613B (dioxins/furans).

PCB and dioxin/furan congeners identified with a U* qualifier were tagged as "estimated maximum possible concentrations" by the laboratory. This was changed to non-detect (U) during data validation.

Petroleum hydrocarbon results are compared to MTCA Method A cleanup levels. Two cleanup levels are available for TPH-Gasoline under MTCA Method A. The more stringent value (30 mg/kg) is applied for facilities where benzene has been detected.

Results in **bold** are detections.

Table U-8. Solids Sample Results Compared to Dry Weight Criteria
Alaska Street Reload

Location ID	AS-CB-02		AS-CB-05		AS-CB-UNK	
Collection Date	1/20/2015		1/20/2015		1/20/2015	
Analyte	Exceedance Factor		Exceedance Factor		Exceedance Factor	
	SCO/ LAET	CSL/ 2LAET	SCO/ LAET	CSL/ 2LAET	SCO/ LAET	CSL/ 2LAET
Metals (Total)						
Mercury	1.2		1.0			
Zinc	1.2		1.3		1.0	
PCBs						
Total PCB Aroclors	1.1					
Total PCB Congeners	5.4		3.6		3.3	
Dioxins and Furans						
Dioxin/Furan TEQ, nd SDL*0			1.1			
Dioxin/Furan TEQ, nd SDL*0.5			1.1			
Dioxin/Furan TEQ, nd SDL*1			1.2			
Phthalates						
bis(2-Ethylhexyl)phthalate	10	6.8	32	22	2.5	1.7
Butylbenzylphthalate	14	1.0				
Dimethylphthalate	1.3					
Phenols						
4-Methylphenol	6.6	6.6			1.3	1.3
Other SVOCs						
N-Nitrosodiphenylamine	6.8	4.8	1.8	1.3	1.9	1.3
TPH						
Gasoline-Range Hydrocarbons	3.1				2.9	
Motor Oil-Range Hydrocarbons	2.6		4.3		1.4	

Exceedance factors are presented for detected concentrations that exceed the SMS/AET criteria, LDW RALs (dioxins/furans and cPAHs), or MTCA Method A cleanup levels for soil (TPH).

The exceedance factors are calculated (result divided by criterion) and have no regulatory relevance. They provide an indication of the general magnitude of the concentration relative to the identified criterion.

Table U-9. Solids Sample Results - PCB Congeners
Alaska Street Reload

Location ID	AS-CB-02		AS-CB-05		AS-CB-UNK	
Collection Date	**1/20/2015**		**1/20/2015**		**1/20/2015**	
Analyte	**Result**		**Result**		**Result**	
Total PCB Congeners (ng/kg)[a]	701,000	J	471,000	J	426,000	J
Total Monochlorobiphenyl (ng/kg)[a]	326	J	355	J	296	J
PCB-1	156		144		175	
PCB-2	59.1	J	89.2	J	35.8	J
PCB-3	111	J	122	J	85.5	J
Total Dichlorobiphenyl (ng/kg)[a]	10,200	J	19,800	J	11,400	
PCB-4/10	467		536		884	
PCB-5/8	1,430		1,950		3,570	
PCB-6	502		562		845	
PCB-7/9	178	J	238	J	371	
PCB-11	6,120		14,800		3,740	
PCB-12/13	228	J	< 247	U*	274	
PCB-14	< 134	U	< 245	U	< 282	U
PCB-15	1,260		1,700		1,690	
Total Trichlorobiphenyl (ng/kg)[a]	20,900	J	28,300		24,800	J
PCB-16/32	2,020		2,800		2,410	
PCB-17	1,030		1,300		1,440	
PCB-18	3,060		3,950		4,190	
PCB-19	500		495		415	
PCB-20/21/33	2,030		3,370		2,800	
PCB-22	1,150		2,140		1,460	
PCB-23	< 42.1	U	< 34.9	U	< 18.6	U
PCB-24/27	608		457		445	
PCB-25	1,040		763		885	
PCB-26	2,150		1,520		1,810	
PCB-28	2,600		3,960		2,930	
PCB-29	< 49.9	U	< 41.3	U	42.0	J
PCB-30	< 12.6	U	< 31.0	U	< 18.1	U
PCB-31	2,990		4,410		4,240	
PCB-34	< 41.8	U*	< 39.3	U	30.9	J
PCB-35	195		352		166	
PCB-36	< 52.2	U	< 42.2	U	< 25.8	U
PCB-37	1,530		2,780		1,520	
PCB-38	< 49.7	U	< 40.2	U	50.5	J
PCB-39	< 53.5	U	< 43.2	U	< 26.4	U
Total Tetrachlorobiphenyl (ng/kg)[a]	65,400	J	62,800	J	43,800	J
PCB-40	1,070		1,260		735	
PCB-41/64/71/72	5,580		6,010		4,090	
PCB-42/59	1,830		2,100		1,300	
PCB-43/49	7,890		6,180		5,290	
PCB-44	6,820		7,000		4,650	
PCB-45	945		1,030		687	
PCB-46	549		513		349	
PCB-47	2,220		2,030		1,470	
PCB-48/75	750		853		675	
PCB-50	< 38.3	U	< 60.2	U	< 41.4	U
PCB-51	777		422		405	
PCB-52/69	13,600		10,000		8,070	
PCB-53	1,980		1,220		1,050	
PCB-54	< 45.9	U*	< 48.1	U	27.9	J
PCB-55	204		207		129	
PCB-56/60	3,060		4,070		2,240	

Table U-9. Solids Sample Results - PCB Congeners
Alaska Street Reload

Location ID	AS-CB-02		AS-CB-05		AS-CB-UNK	
Collection Date	1/20/2015		1/20/2015		1/20/2015	
Analyte	Result		Result		Result	
PCB-57	95.6	J	90.0	J	60.0	J
PCB-58	37.3	J	< 56.1	U	< 38.7	U
PCB-61/70	9,160		9,390		6,070	
PCB-62	< 33.8	U	< 63.6	U	< 36.3	U
PCB-63	205		283		166	
PCB-65	< 33.7	U	< 63.4	U	< 36.2	U
PCB-67	< 225	U*	218		188	
PCB-68	< 123	U*	79.4	J	78.0	J
PCB-73	< 36.0	U*	< 58.9	U	26.2	J
PCB-74	2,130		2,600		1,520	
PCB-76/66	5,130		5,800		3,540	
PCB-77	869		1,160		734	
PCB-78	< 27.9	U	< 47.9	U	< 31.7	U
PCB-79	320		208		196	
PCB-80	< 27.8	U	< 45.0	U	< 29.7	U
PCB-81	132		91.3	J	48.9	J
Total Pentachlorobiphenyl (ng/kg)[a]	176,000	J	117,000	J	109,000	J
PCB-82	2,950		2,050		1,880	
PCB-83	< 72.7	U	< 83.7	U	< 76.1	U
PCB-84/92	12,200		7,870		7,340	
PCB-85/116	3,450		2,380		2,660	
PCB-86	< 131	U	< 151	U	< 137	U
PCB-87/117/125	8,650		6,240		5,340	
PCB-88/91	3,960		2,500		2,570	
PCB-89	204		132		< 90.6	U*
PCB-90/101	32,400		20,400		17,900	
PCB-93	< 136	U	< 208	U	< 128	U
PCB-94	147		< 166	U	99.3	J
PCB-95/98/102	24,700		14,900		14,600	
PCB-96	183		< 152	U	114	J
PCB-97	7,390		5,340		4,510	
PCB-99	9,360		5,810		5,870	
PCB-100	< 197	U*	< 185	U	92.2	J
PCB-103	333		< 181	U	163	
PCB-104	< 61.0	U	< 146	U	< 62.6	U
PCB-105	8,450		6,590		4,980	
PCB-106/118	22,900		16,300		13,600	
PCB-107/109	1,480		1,140		983	
PCB-108/112	1,260		870		< 665	U*
PCB-110	32,100		21,500		24,400	
PCB-111/115	308		323		224	J
PCB-113	109	J	119	J	< 68.3	U
PCB-114	499		374		320	
PCB-119	805		428		454	
PCB-120	154		< 75.9	U	< 86.6	U*
PCB-121	< 71.0	U	< 108	U	< 66.9	U
PCB-122	327		196		209	
PCB-123	293		207		< 207	U*
PCB-124	1,070		810		644	
PCB-126	318		253		218	
PCB-127	< 133	U	< 51.4	U	< 64.0	U

Table U-9. Solids Sample Results - PCB Congeners
Alaska Street Reload

Location ID	AS-CB-02	AS-CB-05	AS-CB-UNK
Collection Date	1/20/2015	1/20/2015	1/20/2015
Analyte	Result	Result	Result
Total Hexachlorobiphenyl (ng/kg)[a]	230,000 J	134,000 J	136,000 J
PCB-128/162	5,810	4,170	4,780
PCB-129	2,070	1,480	1,450
PCB-130	2,520	1,770	1,860
PCB-131	< 113 U	< 163 U	< 76.7 U
PCB-132/161	13,600	8,500	8,150
PCB-133/142	1,650	992	938
PCB-134/143	2,440	1,550	1,630
PCB-135	7,110	3,840	4,210
PCB-136	6,350	3,450	3,630
PCB-137	1,820	1,130	1,590
PCB-138/163/164	46,900	29,000	29,700
PCB-139/149	47,200	25,000	26,600
PCB-140	243	< 146 U*	195
PCB-141	11,400	6,460	6,180
PCB-144	2,230	1,270	1,290
PCB-145	< 74.9 U	< 64.9 U	< 58.8 U
PCB-146/165	6,900	3,940	4,070
PCB-147	626	379	515
PCB-148	< 121 U	< 105 U	< 94.9 U
PCB-150	144	< 78.1 U	< 70.7 U
PCB-151	14,200	7,130	7,070
PCB-152	< 80.7 U	< 69.9 U	< 63.3 U
PCB-153	45,300	26,000	24,600
PCB-154	< 591 U*	350	349
PCB-155	< 80.7 U	< 70.2 U	< 63.4 U
PCB-156	3,790	2,790	2,340
PCB-157	717	585	606
PCB-158/160	5,000	3,080	3,360
PCB-159	< 88.0 U	< 136 U	< 64.2 U
PCB-166	106 J	87.1 J	105 J
PCB-167	1,510	1,050	1,110
PCB-168	< 70.6 U	< 102 U	< 48.1 U
PCB-169	< 90.2 U	< 129 U	< 62.4 U
Total Heptachlorobiphenyl (ng/kg)[a]	156,000	83,500	77,400
PCB-170	16,800	9,010	8,450
PCB-171	4,240	2,350	2,270
PCB-172	2,610	1,480	1,360
PCB-173	454	241	305
PCB-174	20,700	11,300	9,890
PCB-175	695	359	384
PCB-176	2,320	1,140	1,070
PCB-177	12,000	6,540	6,090
PCB-178	4,010	2,020	1,830
PCB-179	8,480	4,540	4,210
PCB-180	45,700	24,800	22,700
PCB-181	< 44.6 U	< 90.6 U	< 51.3 U
PCB-182/187	20,200	10,500	10,000
PCB-183	9,380	4,800	4,770
PCB-184	< 27.5 U	< 53.0 U	< 31.5 U
PCB-185	1,880	921	839
PCB-186	< 30.8 U	< 59.5 U	< 35.4 U

Table U-9. Solids Sample Results - PCB Congeners
Alaska Street Reload

Location ID	AS-CB-02	AS-CB-05	AS-CB-UNK
Collection Date	1/20/2015	1/20/2015	1/20/2015
Analyte	Result	Result	Result
PCB-188	< 28.3 U	< 54.7 U	< 32.5 U
PCB-189	645	356	317
PCB-190	3,200	1,670	1,610
PCB-191	788	384	352
PCB-192	< 35.3 U	< 71.8 U	< 40.6 U
PCB-193	2,040	1,040	923
Total Octachlorobiphenyl (ng/kg)[a]	37,400	21,500	19,200
PCB-194	9,130	5,100	4,700
PCB-195	3,700	2,000	1,660
PCB-196/203	10,100	6,030	5,280
PCB-197	306	221	206
PCB-198	423	379	205
PCB-199	9,240	5,030	4,790
PCB-200	1,120	682	592
PCB-201	1,160	661	584
PCB-202	1,820	1,220	955
PCB-204	< 23.9 U	< 88.9 U	< 61.6 U
PCB-205	429	204	197
Total Nonachlorobiphenyl (ng/kg)[a]	4,560	3,730	3,120
PCB-206	3,360	2,680	2,250
PCB-207	344	268	230
PCB-208	859	780	643
Decachlorobiphenyl (ng/kg)	460	606	498
PCB-209	460	606	498
PCB TEQ, nd SDL*0	33.1	26.3	22.6 J
PCB TEQ, nd SDL*0.5	34.4	28.2	23.5 J
PCB TEQ, nd SDL*1	35.8	30.2	24.5 J

a - Total PCBs and total PCB homologs include only congeners that met identification criteria as required by EPA Method1668C.

PCB congeners identified with a U* qualifier were tagged as "estimated maximum possible concentrations" by the laboratory. This was changed to non-detect (U) during data validation.

Attachment U-1
Inspection Photographic Log

Conveyance Structure Information	
Structure Identification Number: AS-CB-02	**N↑**
Structure Type: Catch Basin	
General Location: North area of facility	
Characteristics: 3.5’ to bottom of structure, 1’ to depth of water, 3” of sediment	
Pump Capacity (gpm): --	
Design Storm: --	
Access: Catch Basin Grate	
Volume Gauge: --	
Sample ID: AS-CB-02-20150120-S	
Drainage Information:	
Catch Basin CB-02 is located in the north area of the Alaska Street Reload facility. CB-02 receives stormwater from an area that drains a paved area with heavy truck traffic. Stormwater is conveyed from CB-02 to Valve A, then eventually to the onsite treatment system.	**N➔**

Conveyance Structure Information	
Structure Identification Number: AS-CB-05	**N➔**
Structure Type: Catch Basin	
General Location: South area of facility	
Characteristics: 4’ to bottom of structure, 2.5’ to depth of water, 2-3” of sediment	
Pump Capacity (gpm): --	
Design Storm: --	
Access: Catch Basin Grate	
Volume Gauge: --	
Sample ID: AS-CB-05-20150120-S	

Drainage Information:	
Catch Basin CB-05 is located in the southern area of the Alaska Street Reload facility. CB-05 receives stormwater from an area that drain a paved area with heavy truck traffic. Stormwater is conveyed from CB-05 to CB-06, then the onsite treatment system. Treated stormwater is piped from the treatment system back to CB-05, discharging the treated stormwater offsite to the city stormwater system.	**N➔**

Conveyance Structure Information	
Structure Identification Number: AS-CB-UNK	**N←**
Structure Type: Catch Basin	
General Location: Offsite, NW area of facility, N of fence	
Characteristics: 4’ to bottom of structure, 1.5’ to depth of water, 1’ of sediment	
Pump Capacity (gpm): --	
Design Storm: --	
Access: Catch Basin Grate	
Volume Gauge: --	
Sample ID: AS-CB-UNK-20150120-S	
Drainage Information	
Catch Basin CB-UNK is located offsite, north of the fence in the northwest area of the facility. CB-UNK receives stormwater from a heavy truck traffic area to the west. Stormwater is conveyed from CB-UNK to a catch basin offsite on the northeast corner of the facility.	**N➔**

Attachment U-2
Field Documentation

Location Alaska Street Reload Date 01/20/15

Project / Client NPDES/Ecology

0650	M. Ivancevich stops for ice while en route to field office/storage unit
0700	M. Ivancevich onsite at field office, prepping ice for sample coolers.
0710	J. Wartes & C. Nancarrow arrive. Loading truck with sampling equipment.
0745	Field office secure. Leidos field crew en route to Alaska St. Reload.
0815	Leidos arrives at Alaska St Reload, meets outside the facility to review facility map, facility info. - Need new SWPP - Has a treatment system
0848	M. Alam/Ecology onsite. Sweeping occurring at the facility.
0855	Bob/Ecology onsite.
0905	Ecology & Leidos onsite, meeting with John ~~Bourgeese~~ Borghese/Site Manager. CBs outside of gate are city-MS4. No split samples. Sample port in shed for treatment system. All water goes through treatment system.

Location Alaska Street Reload Date 01/20/15

Project / Client NPDES/Ecology

Debris received onsite is petroleum contaminated solids/sediment.

1000 Began site walk.

1002 At CB 02. CB NE flows to CB 02. Top priority for sampling.

1014 At CB 03. CB02 flows to CB 03. An alternative sampling location to CB 02.

1016 At CB 04. Near debris stockpile. Lighter truck traffic.

1023 Investigating Valve C.

1025 At CB 05. Sheen visible. Next to a building. Trucks parked nearby. CB 04 flows to CB 05. CB05 flows to CB 06. Treated discharge piped back to CB 05.

1035 At CB06 & treatment system

1042 Back at CB02, investigating for sampling. Sheen visible. Has enough sampleable solids. 3.5' to bottom, 1' to water surface.

1100 Setting up at CB02 to collect a solids sample. Sample ID: AS-CB-02-20150120-S

1120 Began collecting sample.

Location Alaska Street Reload Date 01/20/15

Project / Client NPDES/Ecology

1137 Sampling completed at CB02. Next sampling candidate is CB05.

1155 Mobbing to CB 05. Solids on N side of CB. Small pockets in other corners.

1225 Began setting up for solids sampling at CB05

1245 Began sampling at CB 05. Sample ID. AS-CB-05-20150120-S

1318 Sampling complete at CB 05. Mobbing to CB offsite to probe for solids & water.

1335 At offsite CB, marked on figure, CB just N of CB-09, investigating for solids. Approx 1' of solids, slight sheen observed. Inlet from west, approx 6". Outlet going east, approx 12". Setting up to collect solids & water sample.

1400 Began water sample at CB offsite. Sample ID: AS-CB-UNK-20150120-W

1423 Water sample complete. Beginning prep for solids sample.

Location Alaska Street Reload Date 01/20/15

Project / Client NPDES/Ecology

1430 Began solids sample collection. Sample ID: AS-CB-UNK-20150120-S

1445 Sampling complete. Beginning to load supplies & deconning equipment.

1512 Leidos & Ecology offsite. M. Ivancevich & J. Wartes en route to storage unit.

1525 Leidos arrives at field office, unloads sampling supplies, prepares COCs.

1545 Trip blank (TB-20150120) included in Test America sample cooler.

1610 J. Wartes offsite, en route to return WQ meter, store TA samples at Bothell office for courier pickup. M. Ivancevich preparing Vista sample cooler for shipment; coordinating TA courier pickup.

1700 M. Ivancevich secures field office, en route to FedEx.

1715 M. Ivancevich relinquishes Vista sample cooler to FedEx for shipment.

MAI 01/20/15

leidos

Sediment Collection Form

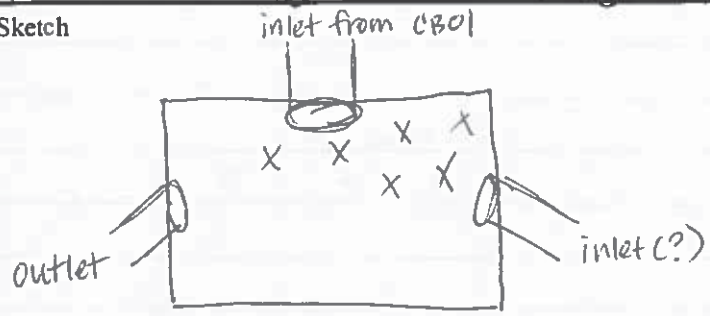
Project: NPDES Sampling Support **Location ID:** CB02

Facility Name: Alaska Street Reload **Sample ID:** AS-CB-02-20150120-S

Sampled By: MI & JW **Date:** 01 / 20 / 2015 **Time:** 1120

Structure Type:	Dimensions:	Standing Water:	Flow:
CB	W 3' L 2'	Y / N	Y / N

Conveyance System Sketch



X = sampling location

Depth to Bottom:	Depth to Water:	Depth of Sediment:	Sampled: Y / N
3.5 ft	1 ft	3 in	Discrete / Composite (circle one)

Sediment type:	*Sediment color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	
Gravel	Brown	Slight	
Sand C M F	Brown surface	Moderate	
Silt/clay	Gray	Strong	
Organic matter	Black	Overwhelming	Photo ID(s):
Debris	Tan	H_2S	
		Petroleum	GPS ID:

NOTES: Sheen observed.

Recorded By/Date: MI 01/20/15 **Reviewed By/Date:** _____

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Sediment Collection Form

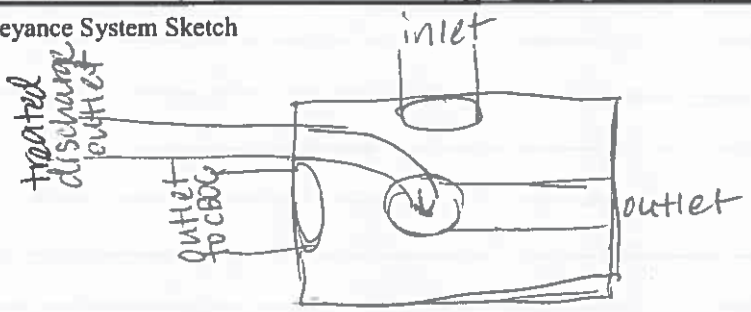
Project: NPDES Sampling Support **Location ID:** CB05

Facility Name: Alaska Street Reload **Sample ID:** AS-CB-05-20150120-S

Sampled By: MI & JW **Date:** 01 / 20 / 2015 **Time:**

Structure Type:	Dimensions:	Standing Water:	Flow:
CB	W 4' L 3'	Y (N)	Y (N)

Conveyance System Sketch



Depth to Bottom:	Depth to Water:	Depth of Sediment:	Sampled: (Y) N
41 ft	2.5 ft	in	Discrete / Composite (circle one)

Sediment type:	*Sediment color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	
Gravel	Brown	(Slight)	
Sand C M F	Brown surface	Moderate	
(Silt/clay)	Gray	Strong	
Organic matter	(Black)	Overwhelming	Photo ID(s):
Debris	Tan	H_2S	
		Petroleum	GPS ID:

NOTES: Strong sheen observed & free product on water surface.

Recorded By/Date: MKT 01/20/15 **Reviewed By/Date:**

Version2 -030311

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Sediment Collection Form

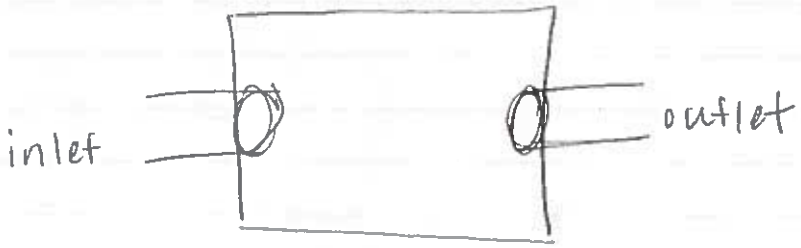
Project: NPDES Sampling Support **Location ID:** CB UNK

Facility Name: Alaska Street Reload **Sample ID:** AS-CB-UNK-20150120-S

Sampled By: MI & JW **Date:** 01 / 20 / 2015 MM **Time:** 1400

Structure Type:	Dimensions:	Standing Water:	Flow:
CB	W 3' L 2'	(Y) / N	Y / (N)

Conveyance System Sketch ↑N



Depth to Bottom:	Depth to Water:	Depth of Sediment:	Sampled: (Y) / N Discrete / Composite *(circle one)*
4 ft	1.5 ft	12 in	

Sediment type:	*Sediment color:*	*Sediment Odor:*	*Comments:*
Cobble	Drab olive	None	
Gravel	Brown	(Slight)	
Sand C M F	Brown surface	Moderate	
~~Silt/clay~~	(Gray)	Strong	
Organic matter	~~Black~~	Overwhelming	Photo ID(s):
Debris	Tan	H_2S	
		Petroleum	GPS ID:

NOTES: Heavy truck traffic around CB. Sheen observed when solids disturbed. Collected both water & solids sample. Sheen = medium.

Recorded By/Date: MM 01/20/15 **Reviewed By/Date:** _____

Version2 -030311

leidos

SURFACE WATER SAMPLING FORM

Client: Department of Ecology Site: Alaska Street Reload Job #: 309382

Sample ID	TIME	DATE	Flow	pH	Electrical Conductivity	Temp (°C)	Total Dissolved Solids	Dissolved Oxygen	Turbidity (NTU)	Oil & Grease (visible?)	COMMENTS
AS-CB-UNK-20150120-W	1400	01/20/15	N	7.34	0.267 ☑ S/cm	8.97	0.170 g/L	7.58 mg/L	545	slight	ORP = 174 mV
					☐ S/cm						
					☐ S/cm						
					☐ S/cm						
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					☐ S/cm						
					☐ S/cm						

Sample Date:____/____/2014

Attachment U-3
Chain of Custody Forms

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253 922 2310 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☑ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Christine Nancarrow	Site Contact: Melissa Ivancevich	Date: 01/20/2015	COC No:
Leidos	Tel/Fax: 206.300.2144	Lab Contact: Kris Allen	Carrier: Courier	1 of 1 COCs
18912 N Creek Pkwy, Ste. 101	Analysis Turnaround Time			Sampler:
Bothell, WA 98011	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
425.398.2101 Phone	TAT if different from Below 3 Weeks			Walk-in Client:
425.485.5566 FAX	☐ 2 weeks			Lab Sampling:
Project Name: NPDES Sampling Support	☐ 1 week			Job / SDG No.:
Site: Lower Duwamish Waterway	☐ 2 days			
P O # P010163427	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCB Aroclors (Method 8082)	SVOC (Method 8270D/8270D-SIM)	TPH-Diesel (NWTPH-Dx)	Metals (Method 6020/7471A)	Total Solids (Method SM2540B)	TPH-Gasoline (NWTPH-Gx)	VOCs (EPA 8260B)	TOC (Plumb1981/9060)	Particle Size (PSEP_Plumb1981)	Sample Specific Notes:
AS-CB-02-20150120-S	01/20/15	1100	C	Sed	6	N		✓	✓	✓	✓	✓	✓	✓	✓	✓	
AS-CB-05-20150120-S	01/20/15	1245	C	Sed	6	N		✓	✓	✓	✓	✓	✓	✓	✓	✓	
AS-CB-UNK-20150120-S	01/20/15	1430	C	Sed	6	N		✓	✓	✓	✓	✓	✓	✓	✓	✓	
TB-20150120	01/20/15	1545			2								✓	✓			
														6			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other MeOH

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☑ Yes ☐ No | Custody Seal No.: 24-2406 | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by: Melissa Ivancevich Melissa	Leidos	01/21/15 1600	Received by:		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253 922 2310 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☑ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Christine Nancarrow	Site Contact: Melissa Ivancevich	Date: 1/20/15	COC No:
Leidos	Tel/Fax: 206.300.2144	Lab Contact: Kris Allen	Carrier: Courier	2 of 2 COCs
18912 N Creek Pkwy Ste 101	Analysis Turnaround Time			Sampler:
Bothell, WA 98011	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
425 398 2101 Phone	TAT if different from Below: 3 Weeks			Walk-in Client:
425 485 5566 FAX	☐ 2 weeks			Lab Sampling:
Project Name: NPDES Sampling Support	☐ 1 week			Job / SDG No.:
Site: Lower Duwamish Waterway	☐ 2 days			
P O # P010163427	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SVOCs (Method 8270D)	Metals (Method 200.8/7470A)	pH (Method SM4500H)	Spec Cond (Method 120.1)	Alk/Bicarb/Carb (Method SM2320)	Anions (Method 300.0/353.2)	TOC (Method SM5310B)	DOC (Method SM5310B)	TSS (Method 2540D)	Sample Specific Notes:
AS-CB-UNK-20150120-W	01/20/15	1400	G	W	9	N		✓	✓	✓	✓	✓	✓	✓	✓	✓	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other MeOH									4					3			

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☑ Yes ☐ No	Custody Seal No.: 242406		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Melissa Ivancevich, Melissa Smith	Company: Leidos	Date/Time: 01/20/15 1600	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Vista

CHAIN OF COUNTODY

FOR LABORATORY USE ONLY

Laboratory Project ID:____________ Storage Secured Yes ☐ No ☐

Storage ID____________ Temp ______ °C

TAT: (Check One):
Standard: ⬬ 21 Days
Rush (surcharge may apply):
◯ 14 days ◯ 7 days Specify:___

Project I.D.: 1400647 P.O.# P010163569 Sampler: M. Ivancevich, J. Warters (Name)

Invoice to: Name: Christine Namarow Company: Leidos Address: 14912 N. Creek Pkwy Ste 101 City: Bothell State: WA Zip: 98011 Ph#: 206.300.2144 Fax#:

Relinquished by: (Signature and Printed Name) Melissa Ivancevich Date: 1/20/15 Time: 1650 Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

See "Sample Log-in Checklist" for additional sample information

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 • Fax (916) 673-0106

ATTN:____________

Method of Shipment: FedEx

Tracking No.: 806459792334

Add Analysis(es) Requested

Sample ID	Date	Time	Location/Sample Description	Container(s) Quantity	Container(s) Type	Matrix	EPA1613 2378-TCDD	EPA1613 2378-TCDD/TCDF	EPA1613 PCDD/PCDF	EPA8290 2378-TCDD	EPA8290 2378-TCDD/TCDF	EPA8290 PCDD/PCDF	EPA8280 2378-TCDD	EPA8280 2378-TCDD/TCDF	EPA8280 PCDD/PCDF	EPA1668 TOTALS	EPA1668 COPLANAR PCB's	EPA1668 209 CONGENERS	EPA1614 PBDE	CARB429 PAH	WHO-29	
AS-CB-02-20150120-S	01/20/15	1100	Alaska St. Reload	1	G	SD		✓								✓		✓				
AS-CB-05-20150120-S	01/20/15	1245	Alaska St. Reload	1	G	SD		✓								✓		✓				
AS-CB-UNK-20150120-W	01/20/15	1400	Alaska St. Reload	4	A	EF		✓								✓		✓				
AS-CB-UNK-20150120-S	01/20/15	1430	Alaska St. Reload	1	G	SD		✓								✓		✓				

Special Instructions/Comments:____________

SEND DOCUMENTATION AND RESULTS TO:

Name: Same as above
Company:
Address:
City: State: Zip:
Phone: Fax:
Email: namarowc@leidos.com

Container Types: A = 1 Liter Amber, G = Glass Jar
P = PUF, T = MM5 Train, O= Other____________

*Bottle Preservative Type: T = Thiosulfate,
O = Other____________

Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper,
SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum
AQ = Aqueous, O = Other____________

Attachment U-4
Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-47133-1
Client Project/Site: NPDES Sampling Support

For:
Leidos, Inc.
18912 North Creek Parkway, Suite 101
Bothell, Washington 98011

Attn: Christine Nancarrow

Kristine D. Allen

Authorized for release by:
2/4/2015 3:28:09 PM

Kristine Allen, Manager of Project Management
(253)248-4970
kristine.allen@testamericainc.com

Table of Contents

Case Narrative

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47133-1

Job ID: 580-47133-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The sample was received on 1/21/2015 11:44 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0º C.

GC/MS Semi VOA

Method(s) 8270C, 8270D: The continuing calibration verification (CCV) associated with batch 181353 recovered outside acceptance criteria, low biased relative response factor (RRF), for 2,4-Dimethylphenol, 4-Chloro-3-methylphenol, Bis(2-chloroethoxy)methane, Isophorone, Nitrobenzene and N-Nitrosodi-n-propylamine. These six targets have been identified as poor performers by 8270D criteria based on RRF's oberserved in instrument calibrations. It should be noted that RRF criteria is only a measure of instrument responsiveness and not system accuracy: all targets including these poor performers passed the +/-20% recovery criteria in the CCV. A reporting limit (RL) standard was analyzed, and the target analytes were detected demonstrating adequate sensitivity. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: AS-CB-UNK-20150120-W (580-47133-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The method blank for preparation batch 180817 contained Butylbenzyl phthalate above the method detection limit (MDL) and Di-n-butylphthalate above the reporting limit (RL). None of the samples associated with this method blank contained the target compounds; therefore, re-extraction and/or re-analysis of samples was not warranted.

Method(s) 8270D: Pentachlorophenol recovered below control limits for the LCS and LCSD associated with batch 180817. This random marginal exceedance is not indicative of a systematic control problem. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47133-1

Client Sample ID: AS-CB-UNK-20150120-W
Date Collected: 01/20/15 14:00
Date Received: 01/21/15 15:31

Lab Sample ID: 580-47133-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
1,2-Dichlorobenzene	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
1,3-Dichlorobenzene	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
1,4-Dichlorobenzene	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
1-Methylnaphthalene	ND		0.29	0.14	ug/L		01/22/15 14:10	01/29/15 20:26	5
2,2'-oxybis[1-chloropropane]	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
2,4,5-Trichlorophenol	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
2,4,6-Trichlorophenol	ND		2.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
2,4-Dichlorophenol	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
2,4-Dimethylphenol	ND		9.5	1.4	ug/L		01/22/15 14:10	01/29/15 20:26	5
2,4-Dinitrophenol	ND		24	4.8	ug/L		01/22/15 14:10	01/29/15 20:26	5
2,4-Dinitrotoluene	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
2,6-Dinitrotoluene	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
2-Chloronaphthalene	ND		0.29	0.095	ug/L		01/22/15 14:10	01/29/15 20:26	5
2-Chlorophenol	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
2-Methylnaphthalene	ND		0.95	0.095	ug/L		01/22/15 14:10	01/29/15 20:26	5
2-Methylphenol	**0.50**	**J**	1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
2-Nitroaniline	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
2-Nitrophenol	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
3 & 4 Methylphenol	**1.1**	**J**	3.8	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
3,3'-Dichlorobenzidine	ND		9.5	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
3-Nitroaniline	ND		1.9	0.57	ug/L		01/22/15 14:10	01/29/15 20:26	5
4,6-Dinitro-2-methylphenol	ND		19	4.8	ug/L		01/22/15 14:10	01/29/15 20:26	5
4-Bromophenyl phenyl ether	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
4-Chloro-3-methylphenol	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
4-Chloroaniline	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
4-Chlorophenyl phenyl ether	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
4-Nitroaniline	ND		2.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
4-Nitrophenol	**5.5**	**J**	14	4.8	ug/L		01/22/15 14:10	01/29/15 20:26	5
Acenaphthene	ND		0.48	0.095	ug/L		01/22/15 14:10	01/29/15 20:26	5
Acenaphthylene	ND		0.38	0.095	ug/L		01/22/15 14:10	01/29/15 20:26	5
Anthracene	ND		0.19	0.048	ug/L		01/22/15 14:10	01/29/15 20:26	5
Benzo[a]anthracene	ND		0.29	0.095	ug/L		01/22/15 14:10	01/29/15 20:26	5
Benzo[a]pyrene	ND		0.19	0.095	ug/L		01/22/15 14:10	01/29/15 20:26	5
Benzo[b]fluoranthene	ND		0.38	0.095	ug/L		01/22/15 14:10	01/29/15 20:26	5
Benzo[g,h,i]perylene	ND		0.29	0.095	ug/L		01/22/15 14:10	01/29/15 20:26	5
Benzo[k]fluoranthene	ND		0.29	0.095	ug/L		01/22/15 14:10	01/29/15 20:26	5
Benzoic acid	**5.2**	**J ***	14	2.9	ug/L		01/22/15 14:10	01/29/15 20:26	5
Benzyl alcohol	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
Bis(2-chloroethoxy)methane	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
Bis(2-chloroethyl)ether	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
Bis(2-ethylhexyl) phthalate	ND		14	5.6	ug/L		01/22/15 14:10	01/29/15 20:26	5
Butyl benzyl phthalate	ND		2.9	0.95	ug/L		01/22/15 14:10	01/29/15 20:26	5
Carbazole	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
Chrysene	ND		0.19	0.062	ug/L		01/22/15 14:10	01/29/15 20:26	5
Dibenz(a,h)anthracene	ND		0.29	0.095	ug/L		01/22/15 14:10	01/29/15 20:26	5
Dibenzofuran	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
Diethyl phthalate	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
Dimethyl phthalate	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5

Client Sample ID: AS-CB-UNK-20150120-W
Date Collected: 01/20/15 14:00
Date Received: 01/21/15 15:31

Lab Sample ID: 580-47133-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		1.9	0.62	ug/L		01/22/15 14:10	01/29/15 20:26	5
Di-n-octyl phthalate	ND		1.9	0.86	ug/L		01/22/15 14:10	01/29/15 20:26	5
Fluoranthene	**0.20**	**J**	0.24	0.062	ug/L		01/22/15 14:10	01/29/15 20:26	5
Fluorene	**0.11**	**J**	0.29	0.095	ug/L		01/22/15 14:10	01/29/15 20:26	5
Hexachlorobenzene	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
Hexachlorobutadiene	ND		2.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
Hexachlorocyclopentadiene	ND		9.5	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
Hexachloroethane	ND		2.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
Indeno[1,2,3-cd]pyrene	ND		0.29	0.095	ug/L		01/22/15 14:10	01/29/15 20:26	5
Isophorone	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
Naphthalene	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
Nitrobenzene	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
N-Nitrosodimethylamine	ND	*	9.5	0.95	ug/L		01/22/15 14:10	01/29/15 20:26	5
N-Nitrosodi-n-propylamine	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
N-Nitrosodiphenylamine	ND		1.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
Pentachlorophenol	ND	*	3.3	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
Phenanthrene	ND		0.38	0.095	ug/L		01/22/15 14:10	01/29/15 20:26	5
Phenol	**2.0**	**J**	2.9	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5
Pyrene	**0.19**	**J**	0.29	0.062	ug/L		01/22/15 14:10	01/29/15 20:26	5
2,3,4,6-Tetrachlorophenol	ND		3.3	0.48	ug/L		01/22/15 14:10	01/29/15 20:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*90*		*44 - 125*	*01/22/15 14:10*	*01/29/15 20:26*	*5*
2-Fluorobiphenyl	*80*		*50 - 120*	*01/22/15 14:10*	*01/29/15 20:26*	*5*
2-Fluorophenol	*72*		*30 - 134*	*01/22/15 14:10*	*01/29/15 20:26*	*5*
Nitrobenzene-d5	*90*		*59 - 120*	*01/22/15 14:10*	*01/29/15 20:26*	*5*
Phenol-d5	*83*		*52 - 120*	*01/22/15 14:10*	*01/29/15 20:26*	*5*
Terphenyl-d14	*85*		*64 - 150*	*01/22/15 14:10*	*01/29/15 20:26*	*5*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0069**		0.0010	0.00027	mg/L		01/22/15 10:04	01/22/15 15:12	1
Antimony	**0.0050**		0.00040	0.000080	mg/L		01/22/15 10:04	01/22/15 15:12	1
Beryllium	**0.00020**	**J**	0.00040	0.00010	mg/L		01/22/15 10:04	01/22/15 15:12	1
Cadmium	**0.00052**		0.00040	0.000028	mg/L		01/22/15 10:04	01/22/15 15:12	1
Chromium	**0.027**		0.00040	0.00014	mg/L		01/22/15 10:04	01/22/15 15:12	1
Copper	**0.065**		0.0020	0.00060	mg/L		01/22/15 10:04	01/22/15 15:12	1
Lead	**0.057**		0.00040	0.000034	mg/L		01/22/15 10:04	01/22/15 15:12	1
Nickel	**0.023**		0.0030	0.00040	mg/L		01/22/15 10:04	01/22/15 15:12	1
Selenium	**0.0012**		0.0010	0.00030	mg/L		01/22/15 10:04	01/22/15 15:12	1
Silver	**0.00013**	**J**	0.00040	0.000030	mg/L		01/22/15 10:04	01/22/15 15:12	1
Thallium	ND		0.0010	0.00014	mg/L		01/22/15 10:04	01/22/15 15:12	1
Zinc	**0.18**		0.0070	0.0019	mg/L		01/22/15 10:04	01/22/15 15:12	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00025**		0.00020	0.000041	mg/L		01/26/15 11:01	01/26/15 13:52	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47133-1

Client Sample ID: AS-CB-UNK-20150120-W
Date Collected: 01/20/15 14:00
Date Received: 01/21/15 15:31

Lab Sample ID: 580-47133-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	220		10	10	umhos/cm			01/22/15 15:37	1
Chloride	17		0.90	0.30	mg/L			01/21/15 18:31	1
Nitrate as N	0.45	J	0.90	0.20	mg/L			01/21/15 18:31	1
Sulfate	19		1.2	0.40	mg/L			01/21/15 18:31	1
Alkalinity	67		5.0	5.0	mg/L			01/23/15 10:19	1
Bicarbonate Alkalinity as CaCO3	67		5.0	5.0	mg/L			01/23/15 10:19	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/23/15 10:19	1
Total Suspended Solids	44		20	20	mg/L			01/22/15 10:09	1
pH	8.65	HF	0.0100	0.0100	SU			01/21/15 16:37	1
Total Organic Carbon	9.1		1.0	0.33	mg/L			01/23/15 08:33	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	7.9		1.0	0.33	mg/L			01/23/15 08:33	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47133-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-180817/1-A
Matrix: Water
Analysis Batch: 181353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180817

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
1,2-Dichlorobenzene	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
1,3-Dichlorobenzene	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
1,4-Dichlorobenzene	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
1-Methylnaphthalene	ND		0.060	0.030	ug/L		01/22/15 14:10	01/29/15 11:52	1
2,2'-oxybis[1-chloropropane]	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
2,4,5-Trichlorophenol	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
2,4,6-Trichlorophenol	ND		0.60	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
2,4-Dichlorophenol	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
2,4-Dimethylphenol	ND		2.0	0.30	ug/L		01/22/15 14:10	01/29/15 11:52	1
2,4-Dinitrophenol	ND		5.0	1.0	ug/L		01/22/15 14:10	01/29/15 11:52	1
2,4-Dinitrotoluene	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
2,6-Dinitrotoluene	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
2-Chloronaphthalene	ND		0.060	0.020	ug/L		01/22/15 14:10	01/29/15 11:52	1
2-Chlorophenol	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		01/22/15 14:10	01/29/15 11:52	1
2-Methylphenol	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
2-Nitroaniline	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
2-Nitrophenol	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
3 & 4 Methylphenol	ND		0.80	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
3,3'-Dichlorobenzidine	ND		2.0	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
3-Nitroaniline	ND		0.40	0.12	ug/L		01/22/15 14:10	01/29/15 11:52	1
4,6-Dinitro-2-methylphenol	ND		4.0	1.0	ug/L		01/22/15 14:10	01/29/15 11:52	1
4-Bromophenyl phenyl ether	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
4-Chloro-3-methylphenol	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
4-Chloroaniline	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
4-Chlorophenyl phenyl ether	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
4-Nitroaniline	ND		0.60	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
4-Nitrophenol	ND		3.0	1.0	ug/L		01/22/15 14:10	01/29/15 11:52	1
Acenaphthene	ND		0.10	0.020	ug/L		01/22/15 14:10	01/29/15 11:52	1
Acenaphthylene	ND		0.080	0.020	ug/L		01/22/15 14:10	01/29/15 11:52	1
Anthracene	ND		0.040	0.010	ug/L		01/22/15 14:10	01/29/15 11:52	1
Benzo[a]anthracene	ND		0.060	0.020	ug/L		01/22/15 14:10	01/29/15 11:52	1
Benzo[a]pyrene	ND		0.040	0.020	ug/L		01/22/15 14:10	01/29/15 11:52	1
Benzo[b]fluoranthene	ND		0.080	0.020	ug/L		01/22/15 14:10	01/29/15 11:52	1
Benzo[g,h,i]perylene	ND		0.060	0.020	ug/L		01/22/15 14:10	01/29/15 11:52	1
Benzo[k]fluoranthene	ND		0.060	0.020	ug/L		01/22/15 14:10	01/29/15 11:52	1
Benzoic acid	ND		3.0	0.60	ug/L		01/22/15 14:10	01/29/15 11:52	1
Benzyl alcohol	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
Bis(2-chloroethoxy)methane	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
Bis(2-chloroethyl)ether	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
Bis(2-ethylhexyl) phthalate	ND		3.0	1.2	ug/L		01/22/15 14:10	01/29/15 11:52	1
Butyl benzyl phthalate	0.306	J	0.60	0.20	ug/L		01/22/15 14:10	01/29/15 11:52	1
Carbazole	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
Chrysene	ND		0.040	0.013	ug/L		01/22/15 14:10	01/29/15 11:52	1
Dibenz(a,h)anthracene	ND		0.060	0.020	ug/L		01/22/15 14:10	01/29/15 11:52	1
Dibenzofuran	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
Diethyl phthalate	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-180817/1-A
Matrix: Water
Analysis Batch: 181353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180817

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
Di-n-butyl phthalate	0.418		0.40	0.13	ug/L		01/22/15 14:10	01/29/15 11:52	1
Di-n-octyl phthalate	ND		0.40	0.18	ug/L		01/22/15 14:10	01/29/15 11:52	1
Fluoranthene	ND		0.050	0.013	ug/L		01/22/15 14:10	01/29/15 11:52	1
Fluorene	ND		0.060	0.020	ug/L		01/22/15 14:10	01/29/15 11:52	1
Hexachlorobenzene	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
Hexachlorobutadiene	ND		0.60	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
Hexachlorocyclopentadiene	ND		2.0	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
Hexachloroethane	ND		0.60	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
Indeno[1,2,3-cd]pyrene	ND		0.060	0.020	ug/L		01/22/15 14:10	01/29/15 11:52	1
Isophorone	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
Naphthalene	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
Nitrobenzene	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
N-Nitrosodimethylamine	ND		2.0	0.20	ug/L		01/22/15 14:10	01/29/15 11:52	1
N-Nitrosodi-n-propylamine	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
N-Nitrosodiphenylamine	ND		0.40	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
Pentachlorophenol	ND		0.70	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
Phenanthrene	ND		0.080	0.020	ug/L		01/22/15 14:10	01/29/15 11:52	1
Phenol	ND		0.60	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1
Pyrene	ND		0.060	0.013	ug/L		01/22/15 14:10	01/29/15 11:52	1
2,3,4,6-Tetrachlorophenol	ND		0.70	0.10	ug/L		01/22/15 14:10	01/29/15 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*44 - 125*	*01/22/15 14:10*	*01/29/15 11:52*	*1*
2-Fluorobiphenyl	*81*		*50 - 120*	*01/22/15 14:10*	*01/29/15 11:52*	*1*
2-Fluorophenol	*74*		*30 - 134*	*01/22/15 14:10*	*01/29/15 11:52*	*1*
Nitrobenzene-d5	*82*		*59 - 120*	*01/22/15 14:10*	*01/29/15 11:52*	*1*
Phenol-d5	*77*		*52 - 120*	*01/22/15 14:10*	*01/29/15 11:52*	*1*
Terphenyl-d14	*98*		*64 - 150*	*01/22/15 14:10*	*01/29/15 11:52*	*1*

Lab Sample ID: LCS 580-180817/2-A
Matrix: Water
Analysis Batch: 181353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180817

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	2.00	2.01		ug/L		100	40 - 125
1,2-Dichlorobenzene	2.00	1.97		ug/L		99	44 - 125
1,3-Dichlorobenzene	2.00	1.94		ug/L		97	40 - 125
1,4-Dichlorobenzene	2.00	1.91		ug/L		95	40 - 125
1-Methylnaphthalene	2.00	2.00		ug/L		100	54 - 125
2,2'-oxybis[1-chloropropane]	2.00	1.93		ug/L		96	44 - 130
2,4,5-Trichlorophenol	2.00	2.00		ug/L		100	66 - 130
2,4,6-Trichlorophenol	2.00	2.02		ug/L		101	55 - 140
2,4-Dichlorophenol	2.00	2.10		ug/L		105	50 - 140
2,4-Dimethylphenol	2.00	1.48	J	ug/L		74	30 - 135
2,4-Dinitrophenol	4.00	2.57	J	ug/L		64	24 - 146
2,4-Dinitrotoluene	2.00	1.92		ug/L		96	73 - 126
2,6-Dinitrotoluene	2.00	1.99		ug/L		99	67 - 134

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-180817/2-A
Matrix: Water
Analysis Batch: 181353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180817

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	2.00	1.94		ug/L		97	55 - 125
2-Chlorophenol	2.00	1.95		ug/L		98	57 - 125
2-Methylnaphthalene	2.00	2.00		ug/L		100	56 - 125
2-Methylphenol	2.00	1.83		ug/L		91	60 - 130
2-Nitroaniline	2.00	1.83		ug/L		92	52 - 140
2-Nitrophenol	2.00	1.95		ug/L		97	55 - 140
3 & 4 Methylphenol	2.00	2.04		ug/L		102	60 - 130
3,3'-Dichlorobenzidine	4.00	2.88		ug/L		72	20 - 175
3-Nitroaniline	2.00	1.79		ug/L		89	22 - 124
4,6-Dinitro-2-methylphenol	4.00	3.70	J	ug/L		93	50 - 136
4-Bromophenyl phenyl ether	2.00	2.15		ug/L		108	62 - 132
4-Chloro-3-methylphenol	2.00	2.05		ug/L		103	65 - 145
4-Chloroaniline	2.00	1.99		ug/L		100	20 - 150
4-Chlorophenyl phenyl ether	2.00	2.04		ug/L		102	59 - 125
4-Nitroaniline	2.00	1.95		ug/L		97	49 - 125
4-Nitrophenol	4.00	4.02		ug/L		101	35 - 153
Acenaphthene	2.00	1.94		ug/L		97	63 - 125
Acenaphthylene	2.00	1.89		ug/L		95	62 - 125
Anthracene	2.00	1.84		ug/L		92	50 - 125
Benzo[a]anthracene	2.00	2.06		ug/L		103	65 - 125
Benzo[a]pyrene	2.00	1.75		ug/L		87	45 - 125
Benzo[b]fluoranthene	2.00	2.13		ug/L		106	70 - 129
Benzo[g,h,i]perylene	2.00	2.03		ug/L		102	65 - 153
Benzo[k]fluoranthene	2.00	2.14		ug/L		107	70 - 123
Benzoic acid	4.00	1.09	J	ug/L		27	20 - 144
Benzyl alcohol	2.00	1.77		ug/L		88	41 - 144
Bis(2-chloroethoxy)methane	2.00	1.94		ug/L		97	59 - 125
Bis(2-chloroethyl)ether	2.00	1.92		ug/L		96	55 - 125
Bis(2-ethylhexyl) phthalate	2.00	2.80	J	ug/L		140	70 - 185
Butyl benzyl phthalate	2.00	2.70		ug/L		135	60 - 167
Carbazole	2.00	2.24		ug/L		112	75 - 142
Chrysene	2.00	2.21		ug/L		110	70 - 125
Dibenz(a,h)anthracene	2.00	2.09		ug/L		104	69 - 154
Dibenzofuran	2.00	1.99		ug/L		100	60 - 125
Diethyl phthalate	2.00	2.11		ug/L		105	60 - 150
Dimethyl phthalate	2.00	2.08		ug/L		104	65 - 155
Di-n-butyl phthalate	2.00	2.29		ug/L		115	55 - 167
Di-n-octyl phthalate	2.00	1.91		ug/L		96	55 - 150
Fluoranthene	2.00	2.15		ug/L		107	70 - 145
Fluorene	2.00	2.03		ug/L		102	69 - 125
Hexachlorobenzene	2.00	2.16		ug/L		108	61 - 125
Hexachlorobutadiene	2.00	1.81		ug/L		90	25 - 125
Hexachlorocyclopentadiene	2.00	1.34	J	ug/L		67	20 - 125
Hexachloroethane	2.00	1.83		ug/L		92	30 - 125
Indeno[1,2,3-cd]pyrene	2.00	2.02		ug/L		101	70 - 136
Isophorone	2.00	2.10		ug/L		105	64 - 125
Naphthalene	2.00	2.02		ug/L		101	56 - 125
Nitrobenzene	2.00	1.86		ug/L		93	62 - 125

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-180817/2-A
Matrix: Water
Analysis Batch: 181353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180817

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	2.00	1.46	J	ug/L		73	33 - 143
N-Nitrosodi-n-propylamine	2.00	1.93		ug/L		96	60 - 120
N-Nitrosodiphenylamine	2.00	1.69		ug/L		84	40 - 135
Pentachlorophenol	4.00	0.637	J *	ug/L		16	20 - 145
Phenanthrene	2.00	2.10		ug/L		105	70 - 125
Phenol	2.00	1.93		ug/L		96	53 - 130
Pyrene	2.00	2.11		ug/L		106	70 - 133
2,3,4,6-Tetrachlorophenol	2.00	1.61		ug/L		81	60 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*91*		*44 - 125*
2-Fluorobiphenyl	*86*		*50 - 120*
2-Fluorophenol	*87*		*30 - 134*
Nitrobenzene-d5	*91*		*59 - 120*
Phenol-d5	*91*		*52 - 120*
Terphenyl-d14	*105*		*64 - 150*

Lab Sample ID: LCSD 580-180817/3-A
Matrix: Water
Analysis Batch: 181353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 180817

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.00	2.02		ug/L		101	40 - 125	1	20
1,2-Dichlorobenzene	2.00	2.06		ug/L		103	44 - 125	5	20
1,3-Dichlorobenzene	2.00	2.07		ug/L		104	40 - 125	6	20
1,4-Dichlorobenzene	2.00	2.03		ug/L		102	40 - 125	6	20
1-Methylnaphthalene	2.00	2.04		ug/L		102	54 - 125	2	20
2,2'-oxybis[1-chloropropane]	2.00	1.93		ug/L		97	44 - 130	0	20
2,4,5-Trichlorophenol	2.00	2.24		ug/L		112	66 - 130	11	20
2,4,6-Trichlorophenol	2.00	2.10		ug/L		105	55 - 140	4	20
2,4-Dichlorophenol	2.00	2.10		ug/L		105	50 - 140	0	20
2,4-Dimethylphenol	2.00	1.51	J	ug/L		75	30 - 135	2	20
2,4-Dinitrophenol	4.00	2.85	J	ug/L		71	24 - 146	10	20
2,4-Dinitrotoluene	2.00	2.09		ug/L		105	73 - 126	8	20
2,6-Dinitrotoluene	2.00	2.11		ug/L		105	67 - 134	6	20
2-Chloronaphthalene	2.00	2.03		ug/L		101	55 - 125	5	20
2-Chlorophenol	2.00	2.01		ug/L		101	57 - 125	3	20
2-Methylnaphthalene	2.00	2.01		ug/L		100	56 - 125	1	20
2-Methylphenol	2.00	1.92		ug/L		96	60 - 130	5	20
2-Nitroaniline	2.00	2.08		ug/L		104	52 - 140	13	20
2-Nitrophenol	2.00	1.91		ug/L		95	55 - 140	2	20
3 & 4 Methylphenol	2.00	2.17		ug/L		109	60 - 130	7	20
3,3'-Dichlorobenzidine	4.00	2.99		ug/L		75	20 - 175	4	20
3-Nitroaniline	2.00	1.92		ug/L		96	22 - 124	7	20
4,6-Dinitro-2-methylphenol	4.00	3.87	J	ug/L		97	50 - 136	4	20
4-Bromophenyl phenyl ether	2.00	2.21		ug/L		110	62 - 132	3	20
4-Chloro-3-methylphenol	2.00	2.20		ug/L		110	65 - 145	7	20
4-Chloroaniline	2.00	2.05		ug/L		103	20 - 150	3	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-180817/3-A
Matrix: Water
Analysis Batch: 181353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 180817

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chlorophenyl phenyl ether	2.00	2.09		ug/L		105	59 - 125	2	20
4-Nitroaniline	2.00	1.89		ug/L		94	49 - 125	3	20
4-Nitrophenol	4.00	4.15		ug/L		104	35 - 153	3	20
Acenaphthene	2.00	2.15		ug/L		107	63 - 125	10	20
Acenaphthylene	2.00	2.00		ug/L		100	62 - 125	5	20
Anthracene	2.00	2.02		ug/L		101	50 - 125	9	20
Benzo[a]anthracene	2.00	2.22		ug/L		111	65 - 125	7	20
Benzo[a]pyrene	2.00	1.82		ug/L		91	45 - 125	4	20
Benzo[b]fluoranthene	2.00	2.18		ug/L		109	70 - 129	2	20
Benzo[g,h,i]perylene	2.00	2.12		ug/L		106	65 - 153	4	20
Benzo[k]fluoranthene	2.00	2.31		ug/L		115	70 - 123	7	20
Benzoic acid	4.00	1.53	J *	ug/L		38	20 - 144	33	20
Benzyl alcohol	2.00	1.99		ug/L		99	41 - 144	12	20
Bis(2-chloroethoxy)methane	2.00	1.94		ug/L		97	59 - 125	0	20
Bis(2-chloroethyl)ether	2.00	2.03		ug/L		101	55 - 125	5	20
Bis(2-ethylhexyl) phthalate	2.00	2.53	J	ug/L		126	70 - 185	10	20
Butyl benzyl phthalate	2.00	2.64		ug/L		132	60 - 167	2	20
Carbazole	2.00	2.35		ug/L		117	75 - 142	5	20
Chrysene	2.00	2.28		ug/L		114	70 - 125	3	20
Dibenz(a,h)anthracene	2.00	2.11		ug/L		105	69 - 154	1	20
Dibenzofuran	2.00	2.16		ug/L		108	60 - 125	8	20
Diethyl phthalate	2.00	2.27		ug/L		113	60 - 150	7	20
Dimethyl phthalate	2.00	2.20		ug/L		110	65 - 155	5	20
Di-n-butyl phthalate	2.00	2.37		ug/L		118	55 - 167	3	20
Di-n-octyl phthalate	2.00	1.99		ug/L		99	55 - 150	4	20
Fluoranthene	2.00	2.22		ug/L		111	70 - 145	3	20
Fluorene	2.00	2.20		ug/L		110	69 - 125	8	20
Hexachlorobenzene	2.00	2.26		ug/L		113	61 - 125	5	20
Hexachlorobutadiene	2.00	1.93		ug/L		97	25 - 125	7	20
Hexachlorocyclopentadiene	2.00	1.37	J	ug/L		68	20 - 125	2	20
Hexachloroethane	2.00	1.92		ug/L		96	30 - 125	5	20
Indeno[1,2,3-cd]pyrene	2.00	2.08		ug/L		104	70 - 136	3	20
Isophorone	2.00	2.13		ug/L		106	64 - 125	1	20
Naphthalene	2.00	2.07		ug/L		103	56 - 125	3	20
Nitrobenzene	2.00	1.92		ug/L		96	62 - 125	3	20
N-Nitrosodimethylamine	2.00	2.02	*	ug/L		101	33 - 143	32	20
N-Nitrosodi-n-propylamine	2.00	2.03		ug/L		101	60 - 120	5	20
N-Nitrosodiphenylamine	2.00	1.77		ug/L		89	40 - 135	5	20
Pentachlorophenol	4.00	0.628	J *	ug/L		16	20 - 145	1	20
Phenanthrene	2.00	2.19		ug/L		109	70 - 125	4	20
Phenol	2.00	1.99		ug/L		100	53 - 130	3	20
Pyrene	2.00	2.16		ug/L		108	70 - 133	2	20
2,3,4,6-Tetrachlorophenol	2.00	1.82		ug/L		91	60 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*93*		*44 - 125*
2-Fluorobiphenyl	*88*		*50 - 120*
2-Fluorophenol	*89*		*30 - 134*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-180817/3-A
Matrix: Water
Analysis Batch: 181353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 180817

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*91*		*59 - 120*
Phenol-d5	*94*		*52 - 120*
Terphenyl-d14	*107*		*64 - 150*

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-180775/10-A
Matrix: Water
Analysis Batch: 180832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00027	mg/L		01/22/15 10:04	01/22/15 15:08	1
Antimony	ND		0.00040	0.000080	mg/L		01/22/15 10:04	01/22/15 15:08	1
Beryllium	ND		0.00040	0.00010	mg/L		01/22/15 10:04	01/22/15 15:08	1
Cadmium	ND		0.00040	0.000028	mg/L		01/22/15 10:04	01/22/15 15:08	1
Chromium	ND		0.00040	0.00014	mg/L		01/22/15 10:04	01/22/15 15:08	1
Copper	ND		0.0020	0.00060	mg/L		01/22/15 10:04	01/22/15 15:08	1
Lead	ND		0.00040	0.000034	mg/L		01/22/15 10:04	01/22/15 15:08	1
Nickel	ND		0.0030	0.00040	mg/L		01/22/15 10:04	01/22/15 15:08	1
Selenium	ND		0.0010	0.00030	mg/L		01/22/15 10:04	01/22/15 15:08	1
Silver	ND		0.00040	0.000030	mg/L		01/22/15 10:04	01/22/15 15:08	1
Thallium	ND		0.0010	0.00014	mg/L		01/22/15 10:04	01/22/15 15:08	1
Zinc	ND		0.0070	0.0019	mg/L		01/22/15 10:04	01/22/15 15:08	1

Lab Sample ID: LCS 580-180775/11-A
Matrix: Water
Analysis Batch: 180832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0983		mg/L		98	85 - 115
Antimony	0.100	0.0997		mg/L		100	85 - 115
Beryllium	0.100	0.0966		mg/L		97	85 - 115
Cadmium	0.100	0.0988		mg/L		99	85 - 115
Chromium	0.100	0.0957		mg/L		96	85 - 115
Copper	0.100	0.0971		mg/L		97	85 - 115
Lead	0.100	0.0979		mg/L		98	85 - 115
Nickel	0.100	0.0983		mg/L		98	85 - 115
Selenium	0.100	0.0983		mg/L		98	85 - 115
Silver	0.100	0.0943		mg/L		94	85 - 115
Thallium	0.100	0.0991		mg/L		99	85 - 115
Zinc	0.100	0.0981		mg/L		98	85 - 115

Lab Sample ID: LCSD 580-180775/12-A
Matrix: Water
Analysis Batch: 180832

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 180775

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.100	0.0992		mg/L		99	85 - 115	1	20

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-180775/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 180832 — **Prep Batch: 180775**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.100	0.0988		mg/L		99	85 - 115	1	20
Beryllium	0.100	0.0969		mg/L		97	85 - 115	0	20
Cadmium	0.100	0.0985		mg/L		99	85 - 115	0	20
Chromium	0.100	0.0971		mg/L		97	85 - 115	1	20
Copper	0.100	0.0970		mg/L		97	85 - 115	0	20
Lead	0.100	0.0991		mg/L		99	85 - 115	1	20
Nickel	0.100	0.0989		mg/L		99	85 - 115	1	20
Selenium	0.100	0.0983		mg/L		98	85 - 115	0	20
Silver	0.100	0.0955		mg/L		95	85 - 115	1	20
Thallium	0.100	0.100		mg/L		100	85 - 115	1	20
Zinc	0.100	0.0989		mg/L		99	85 - 115	1	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 580-180994/19-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 181023 — **Prep Batch: 180994**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000041	mg/L		01/26/15 11:01	01/26/15 13:17	1

Lab Sample ID: LCS 580-180994/20-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 181023 — **Prep Batch: 180994**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00194		mg/L		97	85 - 115

Lab Sample ID: LCSD 580-180994/21-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 181023 — **Prep Batch: 180994**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00200	0.00191		mg/L		95	85 - 115	2	20

Method: 120.1 - Conductivity, Specific Conductance

Lab Sample ID: MB 580-180823/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 180823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		10	10	umhos/cm			01/22/15 15:37	1

Method: 120.1 - Conductivity, Specific Conductance (Continued)

Lab Sample ID: LCS 580-180823/2
Matrix: Water
Analysis Batch: 180823

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	500	529		umhos/cm		106	90 - 110

Lab Sample ID: 580-47133-1 DU
Matrix: Water
Analysis Batch: 180823

Client Sample ID: AS-CB-UNK-20150120-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	220		222		umhos/cm		1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-180776/1
Matrix: Water
Analysis Batch: 180776

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.90	0.20	mg/L			01/21/15 17:48	1

Lab Sample ID: LCS 580-180776/2
Matrix: Water
Analysis Batch: 180776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.80	1.79		mg/L		99	90 - 110

Lab Sample ID: LCSD 580-180776/3
Matrix: Water
Analysis Batch: 180776

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	1.80	1.79		mg/L		99	90 - 110	0	15

Lab Sample ID: 580-47133-1 MS
Matrix: Water
Analysis Batch: 180776

Client Sample ID: AS-CB-UNK-20150120-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.45	J	1.80	2.41		mg/L		109	90 - 110

Lab Sample ID: 580-47133-1 DU
Matrix: Water
Analysis Batch: 180776

Client Sample ID: AS-CB-UNK-20150120-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.45	J	0.440	J	mg/L		2	10

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 580-180778/1
Matrix: Water
Analysis Batch: 180778

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.90	0.30	mg/L			01/21/15 17:48	1
Sulfate	ND		1.2	0.40	mg/L			01/21/15 17:48	1

Lab Sample ID: LCS 580-180778/2
Matrix: Water
Analysis Batch: 180778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.00	9.10		mg/L		101	90 - 110
Sulfate	12.0	12.3		mg/L		103	90 - 110

Lab Sample ID: LCSD 580-180778/3
Matrix: Water
Analysis Batch: 180778

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.00	9.12		mg/L		101	90 - 110	0	15
Sulfate	12.0	12.6		mg/L		105	90 - 110	2	15

Lab Sample ID: 580-47133-1 MS
Matrix: Water
Analysis Batch: 180778

Client Sample ID: AS-CB-UNK-20150120-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	17		9.00	27.7	F1	mg/L		117	90 - 110
Sulfate	19		12.0	30.0		mg/L		94	90 - 110

Lab Sample ID: 580-47133-1 DU
Matrix: Water
Analysis Batch: 180778

Client Sample ID: AS-CB-UNK-20150120-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	17		17.2		mg/L		0.06	10
Sulfate	19		18.4		mg/L		2	10

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-180907/2
Matrix: Water
Analysis Batch: 180907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	103		mg/L		103	85 - 115

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 580-47133-1 DU
Matrix: Water
Analysis Batch: 180907

Client Sample ID: AS-CB-UNK-20150120-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	67		67.1		mg/L		0.1	17
Bicarbonate Alkalinity as CaCO3	67		67.1		mg/L		0.1	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 580-180773/1
Matrix: Water
Analysis Batch: 180773

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		2.0	2.0	mg/L			01/22/15 09:27	1

Lab Sample ID: LCS 580-180773/2
Matrix: Water
Analysis Batch: 180773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	30.0	27.2		mg/L		91	70.6 - 120

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-180944/1
Matrix: Water
Analysis Batch: 180944

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.33	mg/L			01/23/15 08:33	1

Lab Sample ID: LCS 580-180944/2
Matrix: Water
Analysis Batch: 180944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	15.0	14.6		mg/L		97	85 - 115

Lab Sample ID: 580-47133-1 MS
Matrix: Water
Analysis Batch: 180944

Client Sample ID: AS-CB-UNK-20150120-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	9.1		10.0	18.6		mg/L		95	85 - 115

Lab Sample ID: 580-47133-1 MSD
Matrix: Water
Analysis Batch: 180944

Client Sample ID: AS-CB-UNK-20150120-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	9.1		10.0	18.5		mg/L		93	85 - 115	1	20

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 580-47133-1 DU
Matrix: Water
Analysis Batch: 180944

Client Sample ID: AS-CB-UNK-20150120-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	9.1			9.04		mg/L				1	20

Lab Chronicle

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47133-1

Client Sample ID: AS-CB-UNK-20150120-W
Date Collected: 01/20/15 14:00
Date Received: 01/21/15 15:31

Lab Sample ID: 580-47133-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			180817	01/22/15 14:10	ALC	TAL SEA
Total/NA	Analysis	8270D		5	181353	01/29/15 20:26	ERB	TAL SEA
Total/NA	Prep	200.8			180775	01/22/15 10:04	PAB	TAL SEA
Total/NA	Analysis	200.8		1	180832	01/22/15 15:12	FCW	TAL SEA
Total/NA	Prep	245.1			180994	01/26/15 11:01	PAB	TAL SEA
Total/NA	Analysis	245.1		1	181023	01/26/15 13:52	FCW	TAL SEA
Total/NA	Analysis	120.1		1	180823	01/22/15 15:37	RSB	TAL SEA
Total/NA	Analysis	300.0		1	180776	01/21/15 18:31	JLS	TAL SEA
Total/NA	Analysis	300.0		1	180778	01/21/15 18:31	JLS	TAL SEA
Total/NA	Analysis	SM 2320B		1	180907	01/23/15 10:19	JLS	TAL SEA
Total/NA	Analysis	SM 2540D		1	180773	01/22/15 10:09	LKC	TAL SEA
Total/NA	Analysis	SM 4500 H+ B		1	180751	01/21/15 16:37	JLS	TAL SEA
Dissolved	Analysis	SM 5310B		1	180944	01/23/15 08:33	JLS	TAL SEA
Total/NA	Analysis	SM 5310B		1	180944	01/23/15 08:33	JLS	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47133-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-15
California	State Program	9	2901	01-31-15
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-15
US Fish & Wildlife	Federal		LE192332-0	02-28-16
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-15

Sample Summary

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47133-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-47133-1	AS-CB-UNK-20150120-W	Water	01/20/15 14:00	01/21/15 15:31

Chain of Custody Record

47133

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
phone 253.922.2310 fax

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☑ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Christine Nancarrow	Site Contact: Melissa Ivancevich	Date: 1/20/15	COC No:
Leidos	Tel/Fax: 206.300.2144	Lab Contact: Kris Allen	Carrier: Courier	2 of 2 COCs
18912 N Creek Pkwy, Ste. 101	Analysis Turnaround Time			Sampler:
Bothell, WA 98011	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
425.398.2101 Phone	TAT if different from Below 3 Weeks			Walk-in Client:
425.485.5566 FAX	☐ 2 weeks			Lab Sampling:
Project Name: NPDES Sampling Support	☐ 1 week			Job / SDG No.:
Site: Lower Duwamish Waterway	☐ 2 days			
P O # P010163427	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SVOCs (Method 8270D)	Metals (Method 200.8/7470A)	pH (Method SM4500H)	Spec Cond (Method 120.1)	Alk/Bicarb/Carb (Method SM2320)	Anions (Method 300.0/353.2)	TOC (Method SM5310B)	DOC (Method SM5310B)	TSS (Method 2540D)	Sample Specific Notes:
AS-CB-UNK-20150120-W	01/20/15	1400	G	W	9	N		✓	✓	✓	✓	✓	✓	✓	✓	✓	
									4					3			

580-47133 Chain of Custody

Cooler/CB Dig/IR cor 4.0°C unc 4.5°C (A2)
Cooler Dsc Lg Green/Blue @ Lab 1445
Wet/Packs Packing Bubble w/LS

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other MeOH

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☑ Yes ☐ No | Custody Seal No.: 282406 | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Melissa Ivancevich Melissa Ivancevich	Leidos	01/20/15 1600		TA-SEA	1/21/15 1144
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 580-47133-1

Login Number: 47133

List Source: TestAmerica Seattle

List Number: 1

Creator: Abello, Andrea N

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Not present
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-47135-1
Client Project/Site: NPDES Sampling Support

For:
Leidos, Inc.
18912 North Creek Parkway, Suite 101
Bothell, Washington 98011

Attn: Christine Nancarrow

Kristine D. Allen

Authorized for release by:
2/19/2015 10:33:56 PM

Kristine Allen, Manager of Project Management
(253)248-4970
kristine.allen@testamericainc.com

Table of Contents

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Job ID: 580-47135-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-47135-1

Comments
No additional comments.

Receipt
The samples were received on 1/21/2015 11:44 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0º C.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 180749 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 580-180749/2).

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 180749 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The method blank for batch 180853 contained Acetone above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: The following analyte(s) recovered outside control limits for the LCS/LCSD associated with batch 180853: 1,2-Dibromo-3-chloropropane, acrylonitrile, and stryene. This is not indicative of a systematic control problem because these were random marginal exceedances within the range of 71-90 target analytes. Qualified results have been reported.

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for analysis batch 180853 recovered outside control limits for multiple analytes. The individual recoveries were within the acceptance criteria with the exception of 1,2- Dibromo-3-chloropropane, acrylonitrile, and stryene.

Method(s) 8260B: Internal standard (ISTD) and surrogates responses for the following sample(s) were outside control limits due to matrix: AS-CB-02-20150120-S (580-47135-1), AS-CB-05-20150120-S (580-47135-2), AS-CB-UNK-20150120-S (580-47135-3). The sample(s) was re-extracted and/or re-analyzed with concurring results, and the original set of data has been reported.

Method(s) 5035, NWTPH-Gx: The following sample was recieved with less methanol volume than the 10 mL stated on the vial, and appeared that the vial was not sealed properly in order to preseve methanol: AS-CB-02-20150120-S (580-47135-1). Therefore, a loss of volatile products is assumed.

Method(s) NWTPH-Gx: The method blank for batch 180796 contained Gasoline above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) NWTPH-Gx: The method blank for batch 181258 contained Gasoline above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with analytical batch 181641 failed the RF criteria for Bis(2-chloroethoxy)methane, Nitrobenzene, Isophorone and N-nitrosodi-n-propylamine. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported.

Method(s) 8270D: The method blank for prep batch 181417 contained Diethyl phthalate, Butyl benzyl phthalate and Di-n-octyl phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or

Job ID: 580-47135-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

re-analysis of samples was not performed.

Method(s) 8270D: The following analyte(s) recovered outside control limits for the LCS associated with prep batch 181417: Dimethyl phthalate. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 181417 recovered outside control limits for the following analyte: Benzoic acid. The individual recoveries were within the acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082, 8082A: In batch 181456, the following sample(s) required a copper clean-up to reduce matrix interferences caused by sulfur: AS-CB-02-20150120-S (580-47135-1), AS-CB-05-20150120-S (580-47135-2), AS-CB-UNK-20150120-S (580-47135-3).
Lot# H25604

Method(s) NWTPH-Dx: In analysis batch 180966, for the following sample(s) from preparation batch 180920: The following sample(s) contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: AS-CB-02-20150120-S (580-47135-1), AS-CB-05-20150120-S (580-47135-2), AS-CB-UNK-20150120-S (580-47135-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Geotechnical

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-02-20150120-S
Date Collected: 01/20/15 11:00
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-1
Matrix: Solid
Percent Solids: 43.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	2.5	0.99	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,1,1-Trichloroethane	ND		2.5	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,1,2,2-Tetrachloroethane	ND	*	5.0	2.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5	0.50	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,1,2-Trichloroethane	ND	*	5.0	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,1-Dichloroethane	ND		2.5	0.99	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,1-Dichloroethene	ND		12	0.50	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,1-Dichloropropene	ND	*	2.5	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,2,3-Trichlorobenzene	ND	*	5.0	1.5	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,2,3-Trichloropropane	ND	*	2.5	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,2,4-Trichlorobenzene	ND	*	5.0	0.99	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,2,4-Trimethylbenzene	**28**	*	5.0	0.99	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,2-Dibromo-3-Chloropropane	ND	*	5.0	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,2-Dibromoethane	ND	*	2.5	0.50	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,2-Dichlorobenzene	ND	*	5.0	1.5	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,2-Dichloroethane	ND	*	2.5	0.99	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,2-Dichloropropane	ND	*	2.5	0.99	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,3,5-Trimethylbenzene	**13**	*	12	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,3-Dichlorobenzene	ND	*	5.0	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,3-Dichloropropane	ND	*	5.0	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
1,4-Dichlorobenzene	ND	*	2.5	0.50	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
2,2-Dichloropropane	ND		12	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
2-Butanone	ND	*	25	7.4	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
2-Chloroethyl vinyl ether	ND	*	12	3.5	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
2-Chlorotoluene	ND	*	5.0	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
2-Hexanone	ND	*	12	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
4-Chlorotoluene	ND	*	5.0	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
4-Isopropyltoluene	**12**	*	5.0	0.99	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
4-Methyl-2-pentanone	**65**	*	12	3.7	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Acetone	**460**	B *	37	6.0	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Acrolein	ND		74	20	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Acrylonitrile	ND	*	25	6.9	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Benzene	**2.0**	J	2.5	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Bromobenzene	ND	*	5.0	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Bromochloromethane	ND		5.0	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Bromodichloromethane	ND	*	2.5	0.99	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Bromoform	ND	*	2.5	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Bromomethane	ND		2.5	0.99	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Carbon disulfide	**35**		2.5	0.50	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Carbon tetrachloride	ND		2.5	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Chlorobenzene	ND	*	2.5	0.99	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Chlorodibromomethane	ND	*	5.0	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Chloroethane	ND		2.5	0.50	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Chloroform	ND	*	2.5	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Chloromethane	ND		2.5	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
cis-1,2-Dichloroethene	ND		2.5	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
cis-1,3-Dichloropropene	ND	*	2.5	0.50	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Dibromomethane	ND		2.5	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Dichlorodifluoromethane	ND		2.5	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-02-20150120-S
Date Collected: 01/20/15 11:00
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-1
Matrix: Solid
Percent Solids: 43.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**3.1**	*	2.5	0.99	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Hexachloro-1,3-butadiene	ND	*	5.0	1.5	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Iodomethane	ND		37	0.50	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Isopropylbenzene	**1.5**	J *	5.0	0.50	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Methyl tert-butyl ether	ND		2.5	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Methylene Chloride	ND		37	7.4	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
m-Xylene & p-Xylene	**9.7**	*	5.0	0.50	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Naphthalene	**14**	*	12	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
n-Butylbenzene	ND	*	5.0	0.50	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
N-Propylbenzene	**6.2**	*	5.0	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
o-Xylene	**5.1**	*	5.0	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
sec-Butylbenzene	**6.0**	*	5.0	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Styrene	**1.6**	J *	5.0	0.50	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
tert-Butylbenzene	ND	*	5.0	0.50	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Tetrachloroethene	ND	*	2.5	0.99	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Toluene	**13**	*	5.0	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
trans-1,2-Dichloroethene	ND	*	2.5	0.99	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
trans-1,3-Dichloropropene	ND	*	2.5	0.50	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
trans-1,4-Dichloro-2-butene	ND	*	12	4.2	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Trichloroethene	ND	*	2.5	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Trichlorofluoromethane	ND		2.5	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Vinyl acetate	ND		12	1.5	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1
Vinyl chloride	ND		2.5	0.74	ug/Kg	☼	01/21/15 14:55	01/23/15 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*125*		*71 - 136*	*01/21/15 14:55*	*01/23/15 13:57*	*1*
4-Bromofluorobenzene (Surr)	*71*	*	*70 - 120*	*01/21/15 14:55*	*01/23/15 13:57*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 132*	*01/21/15 14:55*	*01/23/15 13:57*	*1*
Toluene-d8 (Surr)	*127*	*X	*80 - 120*	*01/21/15 14:55*	*01/23/15 13:57*	*1*
Trifluorotoluene (Surr)	*82*		*65 - 140*	*01/21/15 14:55*	*01/23/15 13:57*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		110	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
1,2-Dichlorobenzene	ND		120	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
1,3-Dichlorobenzene	ND		110	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
1,4-Dichlorobenzene	ND		110	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
1-Methylnaphthalene	**210**		67	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
2,2'-oxybis[1-chloropropane]	ND		560	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
2,4,5-Trichlorophenol	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
2,4,6-Trichlorophenol	ND		330	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
2,4-Dichlorophenol	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
2,4-Dimethylphenol	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
2,4-Dinitrophenol	ND		2200	440	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
2,4-Dinitrotoluene	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
2,6-Dinitrotoluene	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
2-Chloronaphthalene	ND		44	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
2-Chlorophenol	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
2-Methylnaphthalene	**280**		44	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
2-Methylphenol	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-02-20150120-S
Date Collected: 01/20/15 11:00
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-1
Matrix: Solid
Percent Solids: 43.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
2-Nitrophenol	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
3 & 4 Methylphenol	**4400**		440	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
3,3'-Dichlorobenzidine	ND		440	67	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
3-Nitroaniline	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
4,6-Dinitro-2-methylphenol	ND		2200	220	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
4-Bromophenyl phenyl ether	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
4-Chloro-3-methylphenol	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
4-Chloroaniline	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
4-Chlorophenyl phenyl ether	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
4-Nitroaniline	ND		220	44	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
4-Nitrophenol	ND		2200	560	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Acenaphthene	**70**		44	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Acenaphthylene	**52**		44	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Anthracene	**170**		44	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Benzo[a]anthracene	**380**		44	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Benzo[a]pyrene	**450**		67	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Benzo[b]fluoranthene	**700**		44	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Benzo[g,h,i]perylene	**280**		56	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Benzo[k]fluoranthene	**230**		56	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Benzoic acid	ND	*	5600	1700	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Benzyl alcohol	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Bis(2-chloroethoxy)methane	ND		220	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Bis(2-chloroethyl)ether	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Bis(2-ethylhexyl) phthalate	**13000**		1300	110	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Butyl benzyl phthalate	**910**	**B**	440	110	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Carbazole	**79**	**J**	220	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Chrysene	**820**		56	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Dibenz(a,h)anthracene	**42**	**J**	89	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Dibenzofuran	**74**	**J**	220	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Diethyl phthalate	ND		440	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Dimethyl phthalate	**94**	**J ***	220	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Di-n-butyl phthalate	ND		1100	110	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Di-n-octyl phthalate	**370**	**J B**	1100	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Fluoranthene	**1100**		44	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Fluorene	**140**		44	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Hexachlorobenzene	ND		110	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Hexachlorobutadiene	ND		110	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Hexachlorocyclopentadiene	ND		220	22	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Hexachloroethane	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Indeno[1,2,3-cd]pyrene	**230**		89	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Isophorone	ND		220	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Naphthalene	**120**		44	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Nitrobenzene	ND		220	76	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
N-Nitrosodimethylamine	ND		2200	560	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
N-Nitrosodi-n-propylamine	ND		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
N-Nitrosodiphenylamine	**190**		110	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Pentachlorophenol	ND		440	44	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Phenanthrene	**710**		44	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-02-20150120-S
Date Collected: 01/20/15 11:00
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-1
Matrix: Solid
Percent Solids: 43.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	420		220	33	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10
Pyrene	1300		44	11	ug/Kg	☼	02/02/15 07:00	02/04/15 00:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*97*		*28 - 143*	*02/02/15 07:00*	*02/04/15 00:48*	*10*
2-Fluorobiphenyl	*90*		*42 - 140*	*02/02/15 07:00*	*02/04/15 00:48*	*10*
2-Fluorophenol	*75*		*36 - 145*	*02/02/15 07:00*	*02/04/15 00:48*	*10*
Nitrobenzene-d5	*101*		*38 - 141*	*02/02/15 07:00*	*02/04/15 00:48*	*10*
Phenol-d5	*82*		*38 - 149*	*02/02/15 07:00*	*02/04/15 00:48*	*10*
Terphenyl-d14	*98*		*42 - 151*	*02/02/15 07:00*	*02/04/15 00:48*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	94	B	64	8.0	mg/Kg	☼	01/22/15 11:47	01/30/15 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*	*01/22/15 11:47*	*01/30/15 14:35*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.021	0.0068	mg/Kg	☼	01/29/15 14:56	02/01/15 03:35	1
Arochlor 1221	ND		0.023	0.017	mg/Kg	☼	01/29/15 14:56	02/01/15 03:35	1
Arochlor 1232	ND		0.023	0.015	mg/Kg	☼	01/29/15 14:56	02/01/15 03:35	1
Arochlor 1242	ND		0.021	0.0045	mg/Kg	☼	01/29/15 14:56	02/01/15 03:35	1
Arochlor 1248	ND		0.021	0.0064	mg/Kg	☼	01/29/15 14:56	02/01/15 03:35	1
Arochlor 1254	ND		0.021	0.0045	mg/Kg	☼	01/29/15 14:56	02/01/15 03:35	1
Arochlor 1260	0.14		0.021	0.0064	mg/Kg	☼	01/29/15 14:56	02/01/15 03:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*46*		*45 - 135*	*01/29/15 14:56*	*02/01/15 03:35*	*1*
DCB Decachlorobiphenyl	*50*		*50 - 140*	*01/29/15 14:56*	*02/01/15 03:35*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	1500	Y	55	12	mg/Kg	☼	01/23/15 13:28	01/26/15 16:24	1
Motor Oil (>C24-C36)	5100	Y	110	20	mg/Kg	☼	01/23/15 13:28	01/26/15 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*50 - 150*	*01/23/15 13:28*	*01/26/15 16:24*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		1.1	0.41	mg/Kg	☼	01/26/15 14:10	01/26/15 19:31	10
Lead	100		1.1	0.11	mg/Kg	☼	01/26/15 14:10	01/26/15 19:31	10
Antimony	7.0		0.45	0.095	mg/Kg	☼	01/26/15 14:10	01/26/15 19:31	10
Beryllium	0.50		0.45	0.079	mg/Kg	☼	01/26/15 14:10	01/26/15 19:31	10
Cadmium	1.2		0.45	0.043	mg/Kg	☼	01/26/15 14:10	01/26/15 19:31	10
Chromium	88		1.1	0.14	mg/Kg	☼	01/26/15 14:10	01/26/15 19:31	10
Copper	120		0.90	0.22	mg/Kg	☼	01/26/15 14:10	01/26/15 19:31	10
Nickel	70		1.1	0.18	mg/Kg	☼	01/26/15 14:10	01/26/15 19:31	10
Selenium	2.1	J	2.3	0.46	mg/Kg	☼	01/26/15 14:10	01/26/15 19:31	10

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-02-20150120-S
Date Collected: 01/20/15 11:00
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-1
Matrix: Solid
Percent Solids: 43.3

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.39	J	0.45	0.027	mg/Kg	☼	01/26/15 14:10	01/26/15 19:31	10
Thallium	ND		0.90	0.29	mg/Kg	☼	01/26/15 14:10	01/26/15 19:31	10
Zinc	490		11	2.5	mg/Kg	☼	01/26/15 14:10	01/26/15 19:31	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.033	0.010	mg/Kg	☼	01/27/15 10:00	01/27/15 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	43		0.10	0.10	%			01/28/15 15:55	1
Total Organic Carbon	110000		2000	250	mg/Kg			01/28/15 17:02	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobbles	0.00				%			01/26/15 19:00	1
Gravel	2.3				%			01/26/15 19:00	1
Sand	23				%			01/26/15 19:00	1
Silt	55				%			01/26/15 19:00	1
Clay	20				%			01/26/15 19:00	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-05-20150120-S
Date Collected: 01/20/15 12:45
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-2
Matrix: Solid
Percent Solids: 35.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	2.1	0.83	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,1,1-Trichloroethane	ND		2.1	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,1,2,2-Tetrachloroethane	ND	*	4.2	1.9	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.1	0.42	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,1,2-Trichloroethane	ND	*	4.2	1.0	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,1-Dichloroethane	ND		2.1	0.83	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,1-Dichloroethene	ND		10	0.42	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,1-Dichloropropene	ND	*	2.1	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,2,3-Trichlorobenzene	ND	*	4.2	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,2,3-Trichloropropane	ND	*	2.1	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,2,4-Trichlorobenzene	ND	*	4.2	0.83	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,2,4-Trimethylbenzene	**88**	*	4.2	0.83	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,2-Dibromo-3-Chloropropane	ND	*	4.2	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,2-Dibromoethane	ND	*	2.1	0.42	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,2-Dichlorobenzene	ND	*	4.2	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,2-Dichloroethane	ND	*	2.1	0.83	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,2-Dichloropropane	ND	*	2.1	0.83	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,3,5-Trimethylbenzene	**33**	*	10	1.0	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,3-Dichlorobenzene	ND	*	4.2	1.0	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,3-Dichloropropane	ND	*	4.2	1.0	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
1,4-Dichlorobenzene	ND	*	2.1	0.42	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
2,2-Dichloropropane	ND		10	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
2-Butanone	ND	*	21	6.2	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
2-Chloroethyl vinyl ether	ND	*	10	2.9	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
2-Chlorotoluene	ND	*	4.2	1.0	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
2-Hexanone	**7.4**	**J ***	10	1.0	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
4-Chlorotoluene	ND	*	4.2	1.0	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
4-Isopropyltoluene	**30**	*	4.2	0.83	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
4-Methyl-2-pentanone	**21**	*	10	3.1	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Acetone	**450**	**B ***	31	5.0	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Acrolein	ND		62	17	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Acrylonitrile	ND	*	21	5.8	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Benzene	**3.7**		2.1	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Bromobenzene	ND	*	4.2	1.0	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Bromochloromethane	ND		4.2	1.0	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Bromodichloromethane	ND	*	2.1	0.83	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Bromoform	ND	*	2.1	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Bromomethane	ND		2.1	0.83	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Carbon disulfide	**53**		2.1	0.42	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Carbon tetrachloride	ND		2.1	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Chlorobenzene	ND	*	2.1	0.83	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Chlorodibromomethane	ND	*	4.2	1.0	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Chloroethane	ND		2.1	0.42	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Chloroform	ND	*	2.1	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Chloromethane	ND		2.1	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
cis-1,2-Dichloroethene	ND		2.1	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
cis-1,3-Dichloropropene	ND	*	2.1	0.42	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Dibromomethane	ND		2.1	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Dichlorodifluoromethane	ND		2.1	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-05-20150120-S
Date Collected: 01/20/15 12:45
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-2
Matrix: Solid
Percent Solids: 35.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**14**	*	2.1	0.83	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Hexachloro-1,3-butadiene	ND	*	4.2	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Iodomethane	ND		31	0.42	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Isopropylbenzene	**2.7**	J *	4.2	0.42	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Methyl tert-butyl ether	ND		2.1	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Methylene Chloride	ND		31	6.2	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
m-Xylene & p-Xylene	**32**	*	4.2	0.42	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Naphthalene	**22**	*	10	1.0	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
n-Butylbenzene	ND	*	4.2	0.42	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
N-Propylbenzene	**11**	*	4.2	1.0	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
o-Xylene	**21**	*	4.2	1.0	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
sec-Butylbenzene	**8.5**	*	4.2	1.0	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Styrene	**1.0**	J *	4.2	0.42	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
tert-Butylbenzene	ND	*	4.2	0.42	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Tetrachloroethene	ND	*	2.1	0.83	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Toluene	**220**	*	4.2	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
trans-1,2-Dichloroethene	ND	*	2.1	0.83	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
trans-1,3-Dichloropropene	ND	*	2.1	0.42	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
trans-1,4-Dichloro-2-butene	ND	*	10	3.5	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Trichloroethene	ND	*	2.1	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Trichlorofluoromethane	ND		2.1	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Vinyl acetate	ND		10	1.2	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1
Vinyl chloride	**1.8**	J	2.1	0.62	ug/Kg	☼	01/21/15 14:55	01/23/15 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 136*	*01/21/15 14:55*	*01/23/15 14:25*	*1*
4-Bromofluorobenzene (Surr)	*63*	*X	*70 - 120*	*01/21/15 14:55*	*01/23/15 14:25*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 132*	*01/21/15 14:55*	*01/23/15 14:25*	*1*
Toluene-d8 (Surr)	*142*	*X	*80 - 120*	*01/21/15 14:55*	*01/23/15 14:25*	*1*
Trifluorotoluene (Surr)	*72*		*65 - 140*	*01/21/15 14:55*	*01/23/15 14:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		130	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
1,2-Dichlorobenzene	ND		150	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
1,3-Dichlorobenzene	ND		130	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
1,4-Dichlorobenzene	ND		130	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
1-Methylnaphthalene	**170**		80	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
2,2'-oxybis[1-chloropropane]	ND		670	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
2,4,5-Trichlorophenol	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
2,4,6-Trichlorophenol	ND		400	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
2,4-Dichlorophenol	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
2,4-Dimethylphenol	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
2,4-Dinitrophenol	ND		2700	540	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
2,4-Dinitrotoluene	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
2,6-Dinitrotoluene	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
2-Chloronaphthalene	ND		54	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
2-Chlorophenol	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
2-Methylnaphthalene	**270**		54	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
2-Methylphenol	**52**	J	270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-05-20150120-S
Date Collected: 01/20/15 12:45
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-2
Matrix: Solid
Percent Solids: 35.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
2-Nitrophenol	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
3 & 4 Methylphenol	**240**	**J**	540	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
3,3'-Dichlorobenzidine	ND		540	80	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
3-Nitroaniline	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
4,6-Dinitro-2-methylphenol	ND		2700	270	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
4-Bromophenyl phenyl ether	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
4-Chloro-3-methylphenol	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
4-Chloroaniline	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
4-Chlorophenyl phenyl ether	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
4-Nitroaniline	ND		270	54	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
4-Nitrophenol	ND		2700	670	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Acenaphthene	**27**	**J**	54	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Acenaphthylene	**35**	**J**	54	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Anthracene	**350**		54	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Benzo[a]anthracene	**290**		54	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Benzo[a]pyrene	**280**		80	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Benzo[b]fluoranthene	**670**		54	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Benzo[g,h,i]perylene	**150**		67	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Benzo[k]fluoranthene	**180**		67	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Benzoic acid	ND	*	6700	2000	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Benzyl alcohol	**56**	**J**	270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Bis(2-chloroethoxy)methane	ND		270	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Bis(2-chloroethyl)ether	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Butyl benzyl phthalate	**390**	**J B**	540	130	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Carbazole	**97**	**J**	270	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Chrysene	**620**		67	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Dibenz(a,h)anthracene	ND		110	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Dibenzofuran	ND		270	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Diethyl phthalate	ND		540	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Dimethyl phthalate	**27**	**J ***	270	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Di-n-butyl phthalate	ND		1300	130	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Di-n-octyl phthalate	**2000**	**B**	1300	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Fluoranthene	**860**		54	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Fluorene	**82**		54	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Hexachlorobenzene	ND		130	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Hexachlorobutadiene	ND		130	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Hexachlorocyclopentadiene	ND		270	27	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Hexachloroethane	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Indeno[1,2,3-cd]pyrene	**130**		110	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Isophorone	ND		270	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Naphthalene	**130**		54	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Nitrobenzene	ND		270	91	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
N-Nitrosodimethylamine	ND		2700	670	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
N-Nitrosodi-n-propylamine	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
N-Nitrosodiphenylamine	**51**	**J**	130	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Pentachlorophenol	ND		540	54	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Phenanthrene	**490**		54	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10
Phenol	ND		270	40	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-05-20150120-S
Date Collected: 01/20/15 12:45
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-2
Matrix: Solid
Percent Solids: 35.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	900		54	13	ug/Kg	☼	02/02/15 07:00	02/04/15 03:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*28 - 143*	*02/02/15 07:00*	*02/04/15 03:24*	*10*
2-Fluorobiphenyl	*87*		*42 - 140*	*02/02/15 07:00*	*02/04/15 03:24*	*10*
2-Fluorophenol	*92*		*36 - 145*	*02/02/15 07:00*	*02/04/15 03:24*	*10*
Nitrobenzene-d5	*90*		*38 - 141*	*02/02/15 07:00*	*02/04/15 03:24*	*10*
Phenol-d5	*81*		*38 - 149*	*02/02/15 07:00*	*02/04/15 03:24*	*10*
Terphenyl-d14	*94*		*42 - 151*	*02/02/15 07:00*	*02/04/15 03:24*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	41000		16000	1300	ug/Kg	☼	02/02/15 07:00	02/04/15 03:50	100

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	16	J B	24	2.9	mg/Kg	☼	01/22/15 11:47	01/30/15 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*50 - 150*	*01/22/15 11:47*	*01/30/15 15:08*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.027	0.0087	mg/Kg	☼	01/29/15 14:56	02/01/15 03:52	1
Arochlor 1221	ND		0.030	0.022	mg/Kg	☼	01/29/15 14:56	02/01/15 03:52	1
Arochlor 1232	ND		0.030	0.019	mg/Kg	☼	01/29/15 14:56	02/01/15 03:52	1
Arochlor 1242	ND		0.027	0.0057	mg/Kg	☼	01/29/15 14:56	02/01/15 03:52	1
Arochlor 1248	ND		0.027	0.0082	mg/Kg	☼	01/29/15 14:56	02/01/15 03:52	1
Arochlor 1254	ND		0.027	0.0057	mg/Kg	☼	01/29/15 14:56	02/01/15 03:52	1
Arochlor 1260	0.10		0.027	0.0082	mg/Kg	☼	01/29/15 14:56	02/01/15 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*53*		*45 - 135*	*01/29/15 14:56*	*02/01/15 03:52*	*1*
DCB Decachlorobiphenyl	*55*		*50 - 140*	*01/29/15 14:56*	*02/01/15 03:52*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	1400	Y	65	15	mg/Kg	☼	01/23/15 13:28	01/26/15 17:00	1
Motor Oil (>C24-C36)	8500	Y	130	24	mg/Kg	☼	01/23/15 13:28	01/26/15 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*01/23/15 13:28*	*01/26/15 17:00*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		1.2	0.43	mg/Kg	☼	01/26/15 14:10	01/26/15 19:34	10
Lead	110		1.2	0.11	mg/Kg	☼	01/26/15 14:10	01/26/15 19:34	10
Antimony	7.8		0.47	0.099	mg/Kg	☼	01/26/15 14:10	01/26/15 19:34	10
Beryllium	0.55		0.47	0.083	mg/Kg	☼	01/26/15 14:10	01/26/15 19:34	10
Cadmium	1.2		0.47	0.045	mg/Kg	☼	01/26/15 14:10	01/26/15 19:34	10
Chromium	97		1.2	0.15	mg/Kg	☼	01/26/15 14:10	01/26/15 19:34	10
Copper	130		0.95	0.23	mg/Kg	☼	01/26/15 14:10	01/26/15 19:34	10

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-05-20150120-S
Date Collected: 01/20/15 12:45
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-2
Matrix: Solid
Percent Solids: 35.7

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	78		1.2	0.19	mg/Kg	☼	01/26/15 14:10	01/26/15 19:34	10
Selenium	2.3	J	2.4	0.48	mg/Kg	☼	01/26/15 14:10	01/26/15 19:34	10
Silver	0.43	J	0.47	0.028	mg/Kg	☼	01/26/15 14:10	01/26/15 19:34	10
Thallium	ND		0.95	0.31	mg/Kg	☼	01/26/15 14:10	01/26/15 19:34	10
Zinc	540		12	2.7	mg/Kg	☼	01/26/15 14:10	01/26/15 19:34	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.43		0.042	0.013	mg/Kg	☼	01/27/15 10:00	01/27/15 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	36		0.10	0.10	%			01/28/15 15:55	1
Total Organic Carbon	110000		2000	250	mg/Kg			01/28/15 17:02	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobbles	0.00				%			01/26/15 19:00	1
Gravel	1.4				%			01/26/15 19:00	1
Sand	24				%			01/26/15 19:00	1
Silt	61				%			01/26/15 19:00	1
Clay	14				%			01/26/15 19:00	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-UNK-20150120-S
Date Collected: 01/20/15 14:30
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-3
Matrix: Solid
Percent Solids: 59.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	1.5	0.61	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,1,1-Trichloroethane	ND		1.5	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,1,2,2-Tetrachloroethane	ND	*	3.1	1.4	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.31	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,1,2-Trichloroethane	ND	*	3.1	0.76	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,1-Dichloroethane	ND		1.5	0.61	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,1-Dichloroethene	ND		7.6	0.31	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,1-Dichloropropene	ND	*	1.5	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,2,3-Trichlorobenzene	ND	*	3.1	0.92	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,2,3-Trichloropropane	ND	*	1.5	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,2,4-Trichlorobenzene	ND	*	3.1	0.61	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,2,4-Trimethylbenzene	**18**	*	3.1	0.61	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,2-Dibromo-3-Chloropropane	ND	*	3.1	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,2-Dibromoethane	ND	*	1.5	0.31	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,2-Dichlorobenzene	ND	*	3.1	0.92	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,2-Dichloroethane	ND	*	1.5	0.61	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,2-Dichloropropane	ND	*	1.5	0.61	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,3,5-Trimethylbenzene	**8.1**	*	7.6	0.76	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,3-Dichlorobenzene	ND	*	3.1	0.76	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,3-Dichloropropane	ND	*	3.1	0.76	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
1,4-Dichlorobenzene	ND	*	1.5	0.31	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
2,2-Dichloropropane	ND		7.6	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
2-Butanone	ND	*	15	4.6	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
2-Chloroethyl vinyl ether	ND	*	7.6	2.1	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
2-Chlorotoluene	ND	*	3.1	0.76	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
2-Hexanone	ND	*	7.6	0.76	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
4-Chlorotoluene	ND	*	3.1	0.76	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
4-Isopropyltoluene	**5.7**	*	3.1	0.61	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
4-Methyl-2-pentanone	**51**	*	7.6	2.3	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Acetone	**190**	B *	23	3.7	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Acrolein	ND		46	13	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Acrylonitrile	ND	*	15	4.3	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Benzene	**1.8**		1.5	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Bromobenzene	ND	*	3.1	0.76	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Bromochloromethane	ND		3.1	0.76	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Bromodichloromethane	ND	*	1.5	0.61	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Bromoform	ND	*	1.5	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Bromomethane	ND		1.5	0.61	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Carbon disulfide	**6.5**		1.5	0.31	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Carbon tetrachloride	ND		1.5	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Chlorobenzene	ND		1.5	0.61	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Chlorodibromomethane	ND	*	3.1	0.76	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Chloroethane	ND		1.5	0.31	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Chloroform	ND	*	1.5	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Chloromethane	ND		1.5	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
cis-1,2-Dichloroethene	ND		1.5	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
cis-1,3-Dichloropropene	ND	*	1.5	0.31	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Dibromomethane	ND		1.5	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Dichlorodifluoromethane	ND		1.5	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-UNK-20150120-S
Date Collected: 01/20/15 14:30
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-3
Matrix: Solid
Percent Solids: 59.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**3.0**		1.5	0.61	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Hexachloro-1,3-butadiene	ND	*	3.1	0.92	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Iodomethane	ND		23	0.31	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Isopropylbenzene	ND	*	3.1	0.31	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Methyl tert-butyl ether	ND		1.5	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Methylene Chloride	ND		23	4.6	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
m-Xylene & p-Xylene	**8.8**		3.1	0.31	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Naphthalene	**11**	*	7.6	0.76	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
n-Butylbenzene	ND	*	3.1	0.31	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
N-Propylbenzene	**4.0**	*	3.1	0.76	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
o-Xylene	**5.1**		3.1	0.76	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
sec-Butylbenzene	ND	*	3.1	0.76	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Styrene	**0.67**	**J ***	3.1	0.31	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
tert-Butylbenzene	ND	*	3.1	0.31	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Tetrachloroethene	ND		1.5	0.61	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Toluene	**11**	*	3.1	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
trans-1,2-Dichloroethene	ND	*	1.5	0.61	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
trans-1,3-Dichloropropene	ND	*	1.5	0.31	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
trans-1,4-Dichloro-2-butene	ND	*	7.6	2.6	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Trichloroethene	ND	*	1.5	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Trichlorofluoromethane	ND		1.5	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Vinyl acetate	ND		7.6	0.92	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1
Vinyl chloride	**1.4**	**J**	1.5	0.46	ug/Kg	☼	01/21/15 14:55	01/23/15 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 136*	*01/21/15 14:55*	*01/23/15 14:53*	*1*
4-Bromofluorobenzene (Surr)	*61*	*X*	*70 - 120*	*01/21/15 14:55*	*01/23/15 14:53*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 132*	*01/21/15 14:55*	*01/23/15 14:53*	*1*
Toluene-d8 (Surr)	*138*	*X*	*80 - 120*	*01/21/15 14:55*	*01/23/15 14:53*	*1*
Trifluorotoluene (Surr)	*78*		*65 - 140*	*01/21/15 14:55*	*01/23/15 14:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		82	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
1,2-Dichlorobenzene	ND		90	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
1,3-Dichlorobenzene	ND		82	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
1,4-Dichlorobenzene	ND		82	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
1-Methylnaphthalene	**69**		49	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
2,2'-oxybis[1-chloropropane]	ND		410	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
2,4,5-Trichlorophenol	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
2,4,6-Trichlorophenol	ND		250	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
2,4-Dichlorophenol	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
2,4-Dimethylphenol	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
2,4-Dinitrophenol	ND		1600	330	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
2,4-Dinitrotoluene	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
2,6-Dinitrotoluene	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
2-Chloronaphthalene	ND		33	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
2-Chlorophenol	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
2-Methylnaphthalene	**100**		33	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
2-Methylphenol	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-UNK-20150120-S
Date Collected: 01/20/15 14:30
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-3
Matrix: Solid
Percent Solids: 59.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
2-Nitrophenol	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
3 & 4 Methylphenol	**850**		330	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
3,3'-Dichlorobenzidine	ND		330	49	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
3-Nitroaniline	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
4,6-Dinitro-2-methylphenol	ND		1600	160	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
4-Bromophenyl phenyl ether	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
4-Chloro-3-methylphenol	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
4-Chloroaniline	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
4-Chlorophenyl phenyl ether	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
4-Nitroaniline	ND		160	33	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
4-Nitrophenol	ND		1600	410	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Acenaphthene	**100**		33	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Acenaphthylene	**33**		33	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Anthracene	**130**		33	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Benzo[a]anthracene	**410**		33	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Benzo[a]pyrene	**430**		49	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Benzo[b]fluoranthene	**720**		33	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Benzo[g,h,i]perylene	**190**		41	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Benzo[k]fluoranthene	**300**		41	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Benzoic acid	ND	*	4100	1200	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Benzyl alcohol	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Bis(2-chloroethoxy)methane	ND		160	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Bis(2-chloroethyl)ether	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Bis(2-ethylhexyl) phthalate	**3200**		990	82	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Butyl benzyl phthalate	**290**	**J B**	330	82	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Carbazole	**46**	**J**	160	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Chrysene	**700**		41	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Dibenz(a,h)anthracene	**73**		66	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Dibenzofuran	**44**	**J**	160	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Diethyl phthalate	ND		330	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Dimethyl phthalate	ND	*	160	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Di-n-butyl phthalate	ND		820	82	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Di-n-octyl phthalate	**240**	**J B**	820	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Fluoranthene	**1000**		33	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Fluorene	**85**		33	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Hexachlorobenzene	ND		82	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Hexachlorobutadiene	ND		82	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Hexachlorocyclopentadiene	ND		160	16	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Hexachloroethane	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Indeno[1,2,3-cd]pyrene	**120**		66	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Isophorone	ND		160	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Naphthalene	**59**		33	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Nitrobenzene	ND		160	56	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
N-Nitrosodimethylamine	ND		1600	410	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
N-Nitrosodi-n-propylamine	ND		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
N-Nitrosodiphenylamine	**52**	**J**	82	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Pentachlorophenol	ND		330	33	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Phenanthrene	**520**		33	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-UNK-20150120-S
Date Collected: 01/20/15 14:30
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-3
Matrix: Solid
Percent Solids: 59.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	**220**		160	25	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10
Pyrene	**1100**		33	8.2	ug/Kg	☼	02/02/15 07:00	02/04/15 04:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*74*		*28 - 143*	*02/02/15 07:00*	*02/04/15 04:16*	*10*
2-Fluorobiphenyl	*71*		*42 - 140*	*02/02/15 07:00*	*02/04/15 04:16*	*10*
2-Fluorophenol	*68*		*36 - 145*	*02/02/15 07:00*	*02/04/15 04:16*	*10*
Nitrobenzene-d5	*98*		*38 - 141*	*02/02/15 07:00*	*02/04/15 04:16*	*10*
Phenol-d5	*73*		*38 - 149*	*02/02/15 07:00*	*02/04/15 04:16*	*10*
Terphenyl-d14	*85*		*42 - 151*	*02/02/15 07:00*	*02/04/15 04:16*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**86**	**B**	15	1.8	mg/Kg	☼	01/22/15 11:47	01/22/15 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*	*01/22/15 11:47*	*01/22/15 23:19*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.016	0.0053	mg/Kg	☼	01/29/15 14:56	02/01/15 04:08	1
Arochlor 1221	ND		0.018	0.013	mg/Kg	☼	01/29/15 14:56	02/01/15 04:08	1
Arochlor 1232	ND		0.018	0.012	mg/Kg	☼	01/29/15 14:56	02/01/15 04:08	1
Arochlor 1242	ND		0.016	0.0035	mg/Kg	☼	01/29/15 14:56	02/01/15 04:08	1
Arochlor 1248	ND		0.016	0.0049	mg/Kg	☼	01/29/15 14:56	02/01/15 04:08	1
Arochlor 1254	ND		0.016	0.0035	mg/Kg	☼	01/29/15 14:56	02/01/15 04:08	1
Arochlor 1260	**0.13**		0.016	0.0049	mg/Kg	☼	01/29/15 14:56	02/01/15 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*45 - 135*	*01/29/15 14:56*	*02/01/15 04:08*	*1*
DCB Decachlorobiphenyl	*53*		*50 - 140*	*01/29/15 14:56*	*02/01/15 04:08*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	**480**	**Y**	41	9.4	mg/Kg	☼	01/23/15 13:28	01/26/15 17:18	1
Motor Oil (>C24-C36)	**2800**	**Y**	83	15	mg/Kg	☼	01/23/15 13:28	01/26/15 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*01/23/15 13:28*	*01/26/15 17:18*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**19**		0.59	0.21	mg/Kg	☼	01/26/15 14:10	01/26/15 19:38	10
Lead	**180**		0.59	0.057	mg/Kg	☼	01/26/15 14:10	01/26/15 19:38	10
Antimony	**9.3**		0.24	0.050	mg/Kg	☼	01/26/15 14:10	01/26/15 19:38	10
Beryllium	**0.35**		0.24	0.042	mg/Kg	☼	01/26/15 14:10	01/26/15 19:38	10
Cadmium	**1.1**		0.24	0.023	mg/Kg	☼	01/26/15 14:10	01/26/15 19:38	10
Chromium	**68**		0.59	0.075	mg/Kg	☼	01/26/15 14:10	01/26/15 19:38	10
Copper	**140**		0.48	0.12	mg/Kg	☼	01/26/15 14:10	01/26/15 19:38	10
Nickel	**58**		0.59	0.096	mg/Kg	☼	01/26/15 14:10	01/26/15 19:38	10
Selenium	**1.2**		1.2	0.24	mg/Kg	☼	01/26/15 14:10	01/26/15 19:38	10

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-UNK-20150120-S
Date Collected: 01/20/15 14:30
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-3
Matrix: Solid
Percent Solids: 59.6

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.37		0.24	0.014	mg/Kg	☼	01/26/15 14:10	01/26/15 19:38	10
Thallium	ND		0.48	0.15	mg/Kg	☼	01/26/15 14:10	01/26/15 19:38	10
Zinc	420		5.9	1.3	mg/Kg	☼	01/26/15 14:10	01/26/15 19:38	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.027	0.0086	mg/Kg	☼	01/27/15 10:00	01/27/15 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	60		0.10	0.10	%			01/28/15 15:55	1
Total Organic Carbon	61000		2000	250	mg/Kg			01/28/15 17:02	1

Method: PSEP Plumb 1981 - Grain Size (PSEP Plumb 1981)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobbles	0.00				%			01/26/15 19:00	1
Gravel	0.50				%			01/26/15 19:00	1
Sand	32				%			01/26/15 19:00	1
Silt	51				%			01/26/15 19:00	1
Clay	16				%			01/26/15 19:00	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: TB-20150120
Date Collected: 01/20/15 15:45
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	1.0	0.40	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,1,2,2-Tetrachloroethane	ND	*	2.0	0.90	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.20	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,1,2-Trichloroethane	ND	*	2.0	0.50	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,1-Dichloroethane	ND		1.0	0.40	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,1-Dichloroethene	ND		5.0	0.20	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,1-Dichloropropene	ND		1.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,2,3-Trichlorobenzene	ND	*	2.0	0.60	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,2,3-Trichloropropane	ND	*	1.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,2,4-Trichlorobenzene	ND	*	2.0	0.40	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,2,4-Trimethylbenzene	ND		2.0	0.40	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,2-Dibromoethane	ND	*	1.0	0.20	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,2-Dichlorobenzene	ND	*	2.0	0.60	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,2-Dichloroethane	ND		1.0	0.40	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,2-Dichloropropane	ND		1.0	0.40	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,3-Dichlorobenzene	ND		2.0	0.50	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,3-Dichloropropane	ND	*	2.0	0.50	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
1,4-Dichlorobenzene	ND	*	1.0	0.20	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
2,2-Dichloropropane	ND	*	5.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
2-Butanone	ND		10	3.0	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
2-Chloroethyl vinyl ether	ND		5.0	1.4	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
2-Chlorotoluene	ND		2.0	0.50	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
2-Hexanone	ND		5.0	0.50	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
4-Chlorotoluene	ND		2.0	0.50	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
4-Isopropyltoluene	ND		2.0	0.40	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
4-Methyl-2-pentanone	ND		5.0	1.5	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Acetone	ND		15	2.4	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Acrolein	ND		30	8.2	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Acrylonitrile	ND	*	10	2.8	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Benzene	ND		1.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Bromobenzene	ND	*	2.0	0.50	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Bromochloromethane	ND	*	2.0	0.50	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Bromodichloromethane	ND		1.0	0.40	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Bromoform	ND	*	1.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Bromomethane	ND		1.0	0.40	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Carbon disulfide	ND		1.0	0.20	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Carbon tetrachloride	ND		1.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Chlorobenzene	ND		1.0	0.40	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Chlorodibromomethane	ND	*	2.0	0.50	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Chloroethane	ND		1.0	0.20	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Chloroform	ND	*	1.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Chloromethane	ND		1.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
cis-1,3-Dichloropropene	ND	*	1.0	0.20	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Dibromomethane	ND	*	1.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Dichlorodifluoromethane	ND		1.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: TB-20150120
Date Collected: 01/20/15 15:45
Date Received: 01/21/15 11:44

Lab Sample ID: 580-47135-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.40	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Hexachloro-1,3-butadiene	ND		2.0	0.60	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Iodomethane	ND		15	0.20	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Isopropylbenzene	ND	*	2.0	0.20	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Methyl tert-butyl ether	ND	*	1.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Methylene Chloride	ND		15	3.0	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
m-Xylene & p-Xylene	ND		2.0	0.20	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Naphthalene	ND		5.0	0.50	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
n-Butylbenzene	ND		2.0	0.20	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
N-Propylbenzene	ND		2.0	0.50	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
o-Xylene	ND	*	2.0	0.50	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
sec-Butylbenzene	ND		2.0	0.50	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Styrene	ND		2.0	0.20	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
tert-Butylbenzene	ND		2.0	0.20	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Tetrachloroethene	ND		1.0	0.40	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Toluene	ND		2.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
trans-1,2-Dichloroethene	ND		1.0	0.40	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
trans-1,3-Dichloropropene	ND	*	1.0	0.20	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
trans-1,4-Dichloro-2-butene	ND		5.0	1.7	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Trichloroethene	ND		1.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Trichlorofluoromethane	ND		1.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Vinyl acetate	ND		5.0	0.60	ug/Kg		01/21/15 14:55	01/22/15 12:51	1
Vinyl chloride	ND	^	1.0	0.30	ug/Kg		01/21/15 14:55	01/22/15 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*71 - 136*	*01/21/15 14:55*	*01/22/15 12:51*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 120*	*01/21/15 14:55*	*01/22/15 12:51*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 132*	*01/21/15 14:55*	*01/22/15 12:51*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*01/21/15 14:55*	*01/22/15 12:51*	*1*
Trifluorotoluene (Surr)	*102*		*65 - 140*	*01/21/15 14:55*	*01/22/15 12:51*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1.6	J B	4.1	0.51	mg/Kg		01/22/15 11:47	01/22/15 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*50 - 150*	*01/22/15 11:47*	*01/22/15 18:22*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-180752/1-A
Matrix: Solid
Analysis Batch: 180749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.40	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.90	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.20	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,1,2-Trichloroethane	ND		2.0	0.50	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,1-Dichloroethane	ND		1.0	0.40	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,1-Dichloroethene	ND		5.0	0.20	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,1-Dichloropropene	ND		1.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,2,3-Trichlorobenzene	ND		2.0	0.60	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,2,4-Trichlorobenzene	ND		2.0	0.40	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,2,4-Trimethylbenzene	ND		2.0	0.40	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,2-Dibromoethane	ND		1.0	0.20	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,2-Dichlorobenzene	ND		2.0	0.60	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,2-Dichloroethane	ND		1.0	0.40	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,2-Dichloropropane	ND		1.0	0.40	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,3-Dichlorobenzene	ND		2.0	0.50	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,3-Dichloropropane	ND		2.0	0.50	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
2,2-Dichloropropane	ND		5.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
2-Butanone	ND		10	3.0	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
2-Chloroethyl vinyl ether	ND		5.0	1.4	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
2-Chlorotoluene	ND		2.0	0.50	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
2-Hexanone	ND		5.0	0.50	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
4-Chlorotoluene	ND		2.0	0.50	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
4-Isopropyltoluene	ND		2.0	0.40	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
4-Methyl-2-pentanone	ND		5.0	1.5	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Acetone	ND		15	2.4	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Acrolein	ND		30	8.2	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Acrylonitrile	ND		10	2.8	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Benzene	ND		1.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Bromobenzene	ND		2.0	0.50	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Bromochloromethane	ND		2.0	0.50	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Bromodichloromethane	ND		1.0	0.40	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Bromoform	ND		1.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Bromomethane	ND		1.0	0.40	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Carbon disulfide	ND		1.0	0.20	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Carbon tetrachloride	ND		1.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Chlorobenzene	ND		1.0	0.40	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Chlorodibromomethane	ND		2.0	0.50	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Chloroethane	ND		1.0	0.20	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Chloroform	ND		1.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Chloromethane	ND		1.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Dibromomethane	ND		1.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-180752/1-A
Matrix: Solid
Analysis Batch: 180749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Ethylbenzene	ND		1.0	0.40	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Hexachloro-1,3-butadiene	ND		2.0	0.60	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Iodomethane	ND		15	0.20	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Isopropylbenzene	ND		2.0	0.20	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Methyl tert-butyl ether	ND		1.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Methylene Chloride	ND		15	3.0	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
m-Xylene & p-Xylene	ND		2.0	0.20	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Naphthalene	ND		5.0	0.50	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
n-Butylbenzene	ND		2.0	0.20	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
N-Propylbenzene	ND		2.0	0.50	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
o-Xylene	ND		2.0	0.50	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
sec-Butylbenzene	ND		2.0	0.50	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Styrene	ND		2.0	0.20	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
tert-Butylbenzene	ND		2.0	0.20	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Tetrachloroethene	ND		1.0	0.40	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Toluene	ND		2.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
trans-1,2-Dichloroethene	ND		1.0	0.40	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
trans-1,4-Dichloro-2-butene	ND		5.0	1.7	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Trichloroethene	ND		1.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Trichlorofluoromethane	ND		1.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Vinyl acetate	ND		5.0	0.60	ug/Kg		01/22/15 08:29	01/22/15 10:00	1
Vinyl chloride	ND	^	1.0	0.30	ug/Kg		01/22/15 08:29	01/22/15 10:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 136*	*01/22/15 08:29*	*01/22/15 10:00*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 120*	*01/22/15 08:29*	*01/22/15 10:00*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 132*	*01/22/15 08:29*	*01/22/15 10:00*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*01/22/15 08:29*	*01/22/15 10:00*	*1*
Trifluorotoluene (Surr)	*109*		*65 - 140*	*01/22/15 08:29*	*01/22/15 10:00*	*1*

Lab Sample ID: LCS 580-180752/2-A
Matrix: Solid
Analysis Batch: 180749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	30.0	41.8	*	ug/Kg		139	72 - 123
1,1,1-Trichloroethane	30.0	38.4		ug/Kg		128	63 - 135
1,1,2,2-Tetrachloroethane	30.0	42.9	*	ug/Kg		143	73 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	30.0	40.9		ug/Kg		136	66 - 163
1,1,2-Trichloroethane	30.0	39.7	*	ug/Kg		132	77 - 124
1,1-Dichloroethane	30.0	36.4		ug/Kg		121	70 - 128
1,1-Dichloroethene	30.0	38.3		ug/Kg		128	70 - 133
1,1-Dichloropropene	30.0	36.7		ug/Kg		122	77 - 125
1,2,3-Trichlorobenzene	30.0	40.3	*	ug/Kg		134	61 - 130
1,2,3-Trichloropropane	30.0	41.1	*	ug/Kg		137	77 - 123

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-180752/2-A
Matrix: Solid
Analysis Batch: 180749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	30.0	39.6	*	ug/Kg		132	61 - 130
1,2,4-Trimethylbenzene	30.0	36.7		ug/Kg		122	79 - 124
1,2-Dibromo-3-Chloropropane	30.0	39.4		ug/Kg		131	53 - 132
1,2-Dibromoethane	30.0	39.3	*	ug/Kg		131	69 - 126
1,2-Dichlorobenzene	30.0	37.3	*	ug/Kg		124	79 - 117
1,2-Dichloroethane	30.0	35.2		ug/Kg		117	71 - 128
1,2-Dichloropropane	30.0	36.2		ug/Kg		121	76 - 161
1,3,5-Trimethylbenzene	30.0	37.1		ug/Kg		124	80 - 125
1,3-Dichlorobenzene	30.0	35.1		ug/Kg		117	79 - 119
1,3-Dichloropropane	30.0	36.7		ug/Kg		122	77 - 123
1,4-Dichlorobenzene	30.0	35.7	*	ug/Kg		119	79 - 117
2,2-Dichloropropane	30.0	42.6		ug/Kg		142	56 - 144
2-Butanone	120	150		ug/Kg		125	30 - 160
2-Chloroethyl vinyl ether	30.0	35.5		ug/Kg		118	60 - 150
2-Chlorotoluene	30.0	36.5		ug/Kg		122	79 - 122
2-Hexanone	120	150		ug/Kg		125	45 - 145
4-Chlorotoluene	30.0	34.4		ug/Kg		115	80 - 122
4-Isopropyltoluene	30.0	37.7		ug/Kg		126	78 - 126
4-Methyl-2-pentanone	120	163		ug/Kg		136	45 - 145
Acetone	120	125		ug/Kg		104	20 - 160
Acrolein	178	174		ug/Kg		98	10 - 125
Acrylonitrile	300	354	*	ug/Kg		118	74 - 117
Benzene	30.0	35.9		ug/Kg		120	70 - 128
Bromobenzene	30.0	37.5	*	ug/Kg		125	80 - 120
Bromochloromethane	30.0	40.4	*	ug/Kg		135	78 - 123
Bromodichloromethane	30.0	37.8		ug/Kg		126	58 - 133
Bromoform	30.0	38.5	*	ug/Kg		128	50 - 124
Bromomethane	30.0	40.0		ug/Kg		133	57 - 148
Carbon disulfide	30.0	38.9		ug/Kg		130	45 - 160
Carbon tetrachloride	30.0	40.2		ug/Kg		134	59 - 145
Chlorobenzene	30.0	36.0		ug/Kg		120	75 - 120
Chlorodibromomethane	30.0	43.0	*	ug/Kg		143	42 - 129
Chloroethane	30.0	35.9		ug/Kg		120	48 - 167
Chloroform	30.0	37.7	*	ug/Kg		126	78 - 125
Chloromethane	30.0	35.1		ug/Kg		117	55 - 136
cis-1,2-Dichloroethene	30.0	37.4		ug/Kg		125	70 - 130
cis-1,3-Dichloropropene	30.0	39.6	*	ug/Kg		132	69 - 129
Dibromomethane	30.0	38.8	*	ug/Kg		129	78 - 126
Dichlorodifluoromethane	30.0	33.5		ug/Kg		112	38 - 150
Ethylbenzene	30.0	36.5		ug/Kg		122	78 - 126
Hexachloro-1,3-butadiene	30.0	36.6		ug/Kg		122	68 - 134
Iodomethane	30.0	41.1		ug/Kg		137	44 - 148
Isopropylbenzene	30.0	38.4	*	ug/Kg		128	79 - 127
Methyl tert-butyl ether	30.0	39.8	*	ug/Kg		133	65 - 125
Methylene Chloride	30.0	34.7		ug/Kg		116	57 - 146
m-Xylene & p-Xylene	30.0	37.4		ug/Kg		125	78 - 126
Naphthalene	30.0	42.1		ug/Kg		140	14 - 170
n-Butylbenzene	30.0	35.0		ug/Kg		117	78 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-180752/2-A
Matrix: Solid
Analysis Batch: 180749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Propylbenzene	30.0	36.8		ug/Kg		123	81 - 127
o-Xylene	30.0	39.1	*	ug/Kg		130	77 - 127
sec-Butylbenzene	30.0	37.3		ug/Kg		124	78 - 128
Styrene	30.0	36.9		ug/Kg		123	79 - 127
tert-Butylbenzene	30.0	40.9		ug/Kg		136	71 - 136
Tetrachloroethene	30.0	33.1		ug/Kg		110	56 - 155
Toluene	30.0	35.6		ug/Kg		119	75 - 126
trans-1,2-Dichloroethene	30.0	37.7		ug/Kg		126	76 - 131
trans-1,3-Dichloropropene	30.0	39.7	*	ug/Kg		132	72 - 129
trans-1,4-Dichloro-2-butene	30.0	35.1		ug/Kg		117	42 - 160
Trichloroethene	30.0	36.6		ug/Kg		122	83 - 124
Trichlorofluoromethane	30.0	40.9		ug/Kg		136	47 - 165
Vinyl acetate	60.5	68.7		ug/Kg		114	19 - 144
Vinyl chloride	30.0	39.3	^	ug/Kg		131	67 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*71 - 136*
4-Bromofluorobenzene (Surr)	*96*		*70 - 120*
Dibromofluoromethane (Surr)	*109*		*75 - 132*
Toluene-d8 (Surr)	*102*		*80 - 120*
Trifluorotoluene (Surr)	*103*		*65 - 140*

Lab Sample ID: LCSD 580-180752/3-A
Matrix: Solid
Analysis Batch: 180749

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 180752

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	30.0	35.2		ug/Kg		117	72 - 123	17	20
1,1,1-Trichloroethane	30.0	32.2		ug/Kg		107	63 - 135	18	20
1,1,2,2-Tetrachloroethane	30.0	41.3	*	ug/Kg		138	73 - 125	4	22
1,1,2-Trichloro-1,2,2-trifluoroethane	30.0	34.9		ug/Kg		116	66 - 163	16	30
1,1,2-Trichloroethane	30.0	38.7	*	ug/Kg		129	77 - 124	3	18
1,1-Dichloroethane	30.0	31.7		ug/Kg		106	70 - 128	14	21
1,1-Dichloroethene	30.0	33.8		ug/Kg		113	70 - 133	13	23
1,1-Dichloropropene	30.0	33.1		ug/Kg		110	77 - 125	10	16
1,2,3-Trichlorobenzene	30.0	35.6		ug/Kg		119	61 - 130	12	23
1,2,3-Trichloropropane	30.0	37.9	*	ug/Kg		126	77 - 123	8	23
1,2,4-Trichlorobenzene	30.0	34.6		ug/Kg		115	61 - 130	13	22
1,2,4-Trimethylbenzene	30.0	31.0		ug/Kg		103	79 - 124	17	18
1,2-Dibromo-3-Chloropropane	30.0	39.5		ug/Kg		132	53 - 132	0	27
1,2-Dibromoethane	30.0	40.1	*	ug/Kg		134	69 - 126	2	21
1,2-Dichlorobenzene	30.0	32.4		ug/Kg		108	79 - 117	14	17
1,2-Dichloroethane	30.0	34.4		ug/Kg		115	71 - 128	2	18
1,2-Dichloropropane	30.0	34.4		ug/Kg		115	76 - 161	5	15
1,3,5-Trimethylbenzene	30.0	31.1		ug/Kg		104	80 - 125	18	18
1,3-Dichlorobenzene	30.0	31.7		ug/Kg		106	79 - 119	10	17
1,3-Dichloropropane	30.0	37.5	*	ug/Kg		125	77 - 123	2	19

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-180752/3-A
Matrix: Solid
Analysis Batch: 180749

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 180752

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	30.0	33.2		ug/Kg		111	79 - 117	7	18
2,2-Dichloropropane	30.0	31.1	*	ug/Kg		104	56 - 144	31	21
2-Butanone	120	184		ug/Kg		154	30 - 160	20	30
2-Chloroethyl vinyl ether	30.0	39.7		ug/Kg		132	60 - 150	11	30
2-Chlorotoluene	30.0	30.4		ug/Kg		101	79 - 122	18	18
2-Hexanone	120	166		ug/Kg		138	45 - 145	10	30
4-Chlorotoluene	30.0	30.7		ug/Kg		102	80 - 122	12	18
4-Isopropyltoluene	30.0	31.7		ug/Kg		106	78 - 126	17	18
4-Methyl-2-pentanone	120	158		ug/Kg		131	45 - 145	3	30
Acetone	120	143		ug/Kg		120	20 - 160	14	30
Acrolein	178	191		ug/Kg		107	10 - 125	9	30
Acrylonitrile	300	400	*	ug/Kg		133	74 - 117	12	30
Benzene	30.0	32.9		ug/Kg		110	70 - 128	9	19
Bromobenzene	30.0	34.3		ug/Kg		114	80 - 120	9	19
Bromochloromethane	30.0	36.9		ug/Kg		123	78 - 123	9	19
Bromodichloromethane	30.0	35.4		ug/Kg		118	58 - 133	7	19
Bromoform	30.0	37.2		ug/Kg		124	50 - 124	3	25
Bromomethane	30.0	34.6		ug/Kg		115	57 - 148	15	29
Carbon disulfide	30.0	33.6		ug/Kg		112	45 - 160	15	30
Carbon tetrachloride	30.0	34.3		ug/Kg		114	59 - 145	16	19
Chlorobenzene	30.0	34.3		ug/Kg		114	75 - 120	5	21
Chlorodibromomethane	30.0	41.1	*	ug/Kg		137	42 - 129	4	23
Chloroethane	30.0	31.9		ug/Kg		106	48 - 167	12	53
Chloroform	30.0	33.1		ug/Kg		110	78 - 125	13	17
Chloromethane	30.0	30.9		ug/Kg		103	55 - 136	13	26
cis-1,2-Dichloroethene	30.0	32.5		ug/Kg		108	70 - 130	14	19
cis-1,3-Dichloropropene	30.0	37.3		ug/Kg		124	69 - 129	6	19
Dibromomethane	30.0	38.5	*	ug/Kg		128	78 - 126	1	18
Dichlorodifluoromethane	30.0	28.5		ug/Kg		95	38 - 150	16	26
Ethylbenzene	30.0	32.8		ug/Kg		109	78 - 126	11	23
Hexachloro-1,3-butadiene	30.0	34.5		ug/Kg		115	68 - 134	6	21
Iodomethane	30.0	35.1		ug/Kg		117	44 - 148	16	30
Isopropylbenzene	30.0	32.7		ug/Kg		109	79 - 127	16	20
Methyl tert-butyl ether	30.0	37.8	*	ug/Kg		126	65 - 125	5	30
Methylene Chloride	30.0	31.4		ug/Kg		105	57 - 146	10	21
m-Xylene & p-Xylene	30.0	33.6		ug/Kg		112	78 - 126	11	23
Naphthalene	30.0	38.6		ug/Kg		129	14 - 170	9	50
n-Butylbenzene	30.0	29.9		ug/Kg		100	78 - 128	16	17
N-Propylbenzene	30.0	30.7		ug/Kg		102	81 - 127	18	20
o-Xylene	30.0	33.4		ug/Kg		111	77 - 127	16	22
sec-Butylbenzene	30.0	31.4		ug/Kg		105	78 - 128	17	17
Styrene	30.0	35.2		ug/Kg		117	79 - 127	5	21
tert-Butylbenzene	30.0	34.5		ug/Kg		115	71 - 136	17	27
Tetrachloroethene	30.0	29.1		ug/Kg		97	56 - 155	13	27
Toluene	30.0	32.0		ug/Kg		107	75 - 126	11	19
trans-1,2-Dichloroethene	30.0	32.3		ug/Kg		108	76 - 131	15	18
trans-1,3-Dichloropropene	30.0	40.5	*	ug/Kg		135	72 - 129	2	20
trans-1,4-Dichloro-2-butene	30.0	40.0		ug/Kg		133	42 - 160	13	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-180752/3-A
Matrix: Solid
Analysis Batch: 180749

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 180752

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene			30.0	34.2		ug/Kg		114	83 - 124	7	17
Trichlorofluoromethane			30.0	34.7		ug/Kg		116	47 - 165	17	54
Vinyl acetate			60.5	72.0		ug/Kg		119	19 - 144	5	30
Vinyl chloride			30.0	34.0	^	ug/Kg		113	67 - 131	14	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*71 - 136*
4-Bromofluorobenzene (Surr)	*96*		*70 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 132*
Toluene-d8 (Surr)	*100*		*80 - 120*
Trifluorotoluene (Surr)	*103*		*65 - 140*

Lab Sample ID: MB 580-180906/1-A
Matrix: Solid
Analysis Batch: 180853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.40	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.90	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.20	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,1,2-Trichloroethane	ND		2.0	0.50	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,1-Dichloroethane	ND		1.0	0.40	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,1-Dichloroethene	ND		5.0	0.20	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,1-Dichloropropene	ND		1.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,2,3-Trichlorobenzene	ND		2.0	0.60	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,2,4-Trichlorobenzene	ND		2.0	0.40	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,2,4-Trimethylbenzene	ND		2.0	0.40	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,2-Dibromoethane	ND		1.0	0.20	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,2-Dichlorobenzene	ND		2.0	0.60	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,2-Dichloroethane	ND		1.0	0.40	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,2-Dichloropropane	ND		1.0	0.40	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,3-Dichlorobenzene	ND		2.0	0.50	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,3-Dichloropropane	ND		2.0	0.50	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
2,2-Dichloropropane	ND		5.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
2-Butanone	ND		10	3.0	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
2-Chloroethyl vinyl ether	ND		5.0	1.4	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
2-Chlorotoluene	ND		2.0	0.50	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
2-Hexanone	ND		5.0	0.50	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
4-Chlorotoluene	ND		2.0	0.50	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
4-Isopropyltoluene	ND		2.0	0.40	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
4-Methyl-2-pentanone	ND		5.0	1.5	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Acetone	9.55	J	15	2.4	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Acrolein	ND		30	8.2	ug/Kg		01/23/15 11:57	01/23/15 12:18	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-180906/1-A
Matrix: Solid
Analysis Batch: 180853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		10	2.8	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Benzene	ND		1.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Bromobenzene	ND		2.0	0.50	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Bromochloromethane	ND		2.0	0.50	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Bromodichloromethane	ND		1.0	0.40	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Bromoform	ND		1.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Bromomethane	ND		1.0	0.40	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Carbon disulfide	ND		1.0	0.20	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Carbon tetrachloride	ND		1.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Chlorobenzene	ND		1.0	0.40	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Chlorodibromomethane	ND		2.0	0.50	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Chloroethane	ND		1.0	0.20	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Chloroform	ND		1.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Chloromethane	ND		1.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Dibromomethane	ND		1.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Dichlorodifluoromethane	ND		1.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Ethylbenzene	ND		1.0	0.40	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Hexachloro-1,3-butadiene	ND		2.0	0.60	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Iodomethane	ND		15	0.20	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Isopropylbenzene	ND		2.0	0.20	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Methyl tert-butyl ether	ND		1.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Methylene Chloride	ND		15	3.0	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
m-Xylene & p-Xylene	ND		2.0	0.20	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Naphthalene	ND		5.0	0.50	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
n-Butylbenzene	ND		2.0	0.20	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
N-Propylbenzene	ND		2.0	0.50	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
o-Xylene	ND		2.0	0.50	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
sec-Butylbenzene	ND		2.0	0.50	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Styrene	ND		2.0	0.20	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
tert-Butylbenzene	ND		2.0	0.20	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Tetrachloroethene	ND		1.0	0.40	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Toluene	ND		2.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
trans-1,2-Dichloroethene	ND		1.0	0.40	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
trans-1,4-Dichloro-2-butene	ND		5.0	1.7	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Trichloroethene	ND		1.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Trichlorofluoromethane	ND		1.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Vinyl acetate	ND		5.0	0.60	ug/Kg		01/23/15 11:57	01/23/15 12:18	1
Vinyl chloride	ND		1.0	0.30	ug/Kg		01/23/15 11:57	01/23/15 12:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*71 - 136*	*01/23/15 11:57*	*01/23/15 12:18*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*	*01/23/15 11:57*	*01/23/15 12:18*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 132*	*01/23/15 11:57*	*01/23/15 12:18*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*	*01/23/15 11:57*	*01/23/15 12:18*	*1*
Trifluorotoluene (Surr)	*103*		*65 - 140*	*01/23/15 11:57*	*01/23/15 12:18*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-180906/2-A
Matrix: Solid
Analysis Batch: 180853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	40.0	38.2		ug/Kg		96	72 - 123
1,1,1-Trichloroethane	40.0	40.8		ug/Kg		102	63 - 135
1,1,2,2-Tetrachloroethane	40.0	35.6		ug/Kg		89	73 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	40.0	36.6		ug/Kg		91	66 - 163
1,1,2-Trichloroethane	40.0	35.4		ug/Kg		88	77 - 124
1,1-Dichloroethane	40.0	38.7		ug/Kg		97	70 - 128
1,1-Dichloroethene	40.0	37.7		ug/Kg		94	70 - 133
1,1-Dichloropropene	40.0	36.2		ug/Kg		91	77 - 125
1,2,3-Trichlorobenzene	40.0	38.8		ug/Kg		97	61 - 130
1,2,3-Trichloropropane	40.0	35.6		ug/Kg		89	77 - 123
1,2,4-Trichlorobenzene	40.0	36.8		ug/Kg		92	61 - 130
1,2,4-Trimethylbenzene	40.0	36.0		ug/Kg		90	79 - 124
1,2-Dibromo-3-Chloropropane	40.0	37.4		ug/Kg		93	53 - 132
1,2-Dibromoethane	40.0	35.1		ug/Kg		88	69 - 126
1,2-Dichlorobenzene	40.0	38.7		ug/Kg		97	79 - 117
1,2-Dichloroethane	40.0	35.3		ug/Kg		88	71 - 128
1,2-Dichloropropane	40.0	36.5		ug/Kg		91	76 - 161
1,3,5-Trimethylbenzene	40.0	41.2		ug/Kg		103	80 - 125
1,3-Dichlorobenzene	40.0	38.0		ug/Kg		95	79 - 119
1,3-Dichloropropane	40.0	34.5		ug/Kg		86	77 - 123
1,4-Dichlorobenzene	40.0	36.4		ug/Kg		91	79 - 117
2,2-Dichloropropane	40.0	40.1		ug/Kg		100	56 - 144
2-Butanone	160	139		ug/Kg		87	30 - 160
2-Chloroethyl vinyl ether	40.0	30.8		ug/Kg		77	60 - 150
2-Chlorotoluene	40.0	39.3		ug/Kg		98	79 - 122
2-Hexanone	160	138		ug/Kg		86	45 - 145
4-Chlorotoluene	40.0	36.8		ug/Kg		92	80 - 122
4-Isopropyltoluene	40.0	35.3		ug/Kg		88	78 - 126
4-Methyl-2-pentanone	160	130		ug/Kg		81	45 - 145
Acetone	160	147		ug/Kg		92	20 - 160
Acrolein	237	186		ug/Kg		78	10 - 125
Acrylonitrile	400	372		ug/Kg		93	74 - 117
Benzene	40.0	39.1		ug/Kg		98	70 - 128
Bromobenzene	40.0	39.5		ug/Kg		99	80 - 120
Bromochloromethane	40.0	38.8		ug/Kg		97	78 - 123
Bromodichloromethane	40.0	37.5		ug/Kg		94	58 - 133
Bromoform	40.0	34.5		ug/Kg		86	50 - 124
Bromomethane	40.0	38.7		ug/Kg		97	57 - 148
Carbon disulfide	40.0	39.9		ug/Kg		100	45 - 160
Carbon tetrachloride	40.0	38.4		ug/Kg		96	59 - 145
Chlorobenzene	40.0	37.6		ug/Kg		94	75 - 120
Chlorodibromomethane	40.0	36.9		ug/Kg		92	42 - 129
Chloroethane	40.0	38.4		ug/Kg		96	48 - 167
Chloroform	40.0	39.3		ug/Kg		98	78 - 125
Chloromethane	40.0	43.2		ug/Kg		108	55 - 136
cis-1,2-Dichloroethene	40.0	38.1		ug/Kg		95	70 - 130
cis-1,3-Dichloropropene	40.0	33.2		ug/Kg		83	69 - 129

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-180906/2-A
Matrix: Solid
Analysis Batch: 180853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	40.0	40.0		ug/Kg		100	78 - 126
Dichlorodifluoromethane	40.0	40.6		ug/Kg		102	38 - 150
Ethylbenzene	40.0	40.7		ug/Kg		102	78 - 126
Hexachloro-1,3-butadiene	40.0	34.9		ug/Kg		87	68 - 134
Iodomethane	40.0	38.7		ug/Kg		97	44 - 148
Isopropylbenzene	40.0	38.8		ug/Kg		97	79 - 127
Methyl tert-butyl ether	40.0	38.5		ug/Kg		96	65 - 125
Methylene Chloride	40.0	37.5		ug/Kg		94	57 - 146
m-Xylene & p-Xylene	40.0	37.6		ug/Kg		94	78 - 126
Naphthalene	40.0	38.8		ug/Kg		97	14 - 170
n-Butylbenzene	40.0	34.3		ug/Kg		86	78 - 128
N-Propylbenzene	40.0	42.3		ug/Kg		106	81 - 127
o-Xylene	40.0	39.2		ug/Kg		98	77 - 127
sec-Butylbenzene	40.0	35.7		ug/Kg		89	78 - 128
Styrene	40.0	42.2		ug/Kg		106	79 - 127
tert-Butylbenzene	40.0	40.6		ug/Kg		101	71 - 136
Tetrachloroethene	40.0	32.8		ug/Kg		82	56 - 155
Toluene	40.0	36.8		ug/Kg		92	75 - 126
trans-1,2-Dichloroethene	40.0	38.1		ug/Kg		95	76 - 131
trans-1,3-Dichloropropene	40.0	34.8		ug/Kg		87	72 - 129
trans-1,4-Dichloro-2-butene	40.0	36.5		ug/Kg		91	42 - 160
Trichloroethene	40.0	35.2		ug/Kg		88	83 - 124
Trichlorofluoromethane	40.0	39.5		ug/Kg		99	47 - 165
Vinyl acetate	80.6	73.3		ug/Kg		91	19 - 144
Vinyl chloride	40.0	41.4		ug/Kg		103	67 - 131

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 136*
4-Bromofluorobenzene (Surr)	*107*		*70 - 120*
Dibromofluoromethane (Surr)	*105*		*75 - 132*
Toluene-d8 (Surr)	*93*		*80 - 120*
Trifluorotoluene (Surr)	*104*		*65 - 140*

Lab Sample ID: LCSD 580-180906/3-A
Matrix: Solid
Analysis Batch: 180853

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 180906

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	40.0	48.0	*	ug/Kg		120	72 - 123	23	20
1,1,1-Trichloroethane	40.0	47.6		ug/Kg		119	63 - 135	15	20
1,1,2,2-Tetrachloroethane	40.0	48.0	*	ug/Kg		120	73 - 125	30	22
1,1,2-Trichloro-1,2,2-trifluoroetha ne	40.0	44.2		ug/Kg		110	66 - 163	19	30
1,1,2-Trichloroethane	40.0	45.9	*	ug/Kg		115	77 - 124	26	18
1,1-Dichloroethane	40.0	46.9		ug/Kg		117	70 - 128	19	21
1,1-Dichloroethene	40.0	44.2		ug/Kg		110	70 - 133	16	23
1,1-Dichloropropene	40.0	44.6	*	ug/Kg		112	77 - 125	21	16
1,2,3-Trichlorobenzene	40.0	48.7		ug/Kg		122	61 - 130	22	23

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-180906/3-A
Matrix: Solid
Analysis Batch: 180853

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 180906

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	40.0	46.6	*	ug/Kg		117	77 - 123	27	23
1,2,4-Trichlorobenzene	40.0	44.5		ug/Kg		111	61 - 130	19	22
1,2,4-Trimethylbenzene	40.0	43.0		ug/Kg		107	79 - 124	18	18
1,2-Dibromo-3-Chloropropane	40.0	57.8	*	ug/Kg		144	53 - 132	43	27
1,2-Dibromoethane	40.0	47.0	*	ug/Kg		118	69 - 126	29	21
1,2-Dichlorobenzene	40.0	46.3	*	ug/Kg		116	79 - 117	18	17
1,2-Dichloroethane	40.0	44.3	*	ug/Kg		111	71 - 128	23	18
1,2-Dichloropropane	40.0	45.2	*	ug/Kg		113	76 - 161	21	15
1,3,5-Trimethylbenzene	40.0	48.5		ug/Kg		121	80 - 125	16	18
1,3-Dichlorobenzene	40.0	45.3	*	ug/Kg		113	79 - 119	18	17
1,3-Dichloropropane	40.0	45.6	*	ug/Kg		114	77 - 123	28	19
1,4-Dichlorobenzene	40.0	43.9	*	ug/Kg		110	79 - 117	19	18
2,2-Dichloropropane	40.0	44.0		ug/Kg		110	56 - 144	9	21
2-Butanone	160	207	*	ug/Kg		130	30 - 160	39	30
2-Chloroethyl vinyl ether	40.0	44.9	*	ug/Kg		112	60 - 150	37	30
2-Chlorotoluene	40.0	46.3		ug/Kg		116	79 - 122	16	18
2-Hexanone	160	207	*	ug/Kg		129	45 - 145	40	30
4-Chlorotoluene	40.0	43.9		ug/Kg		110	80 - 122	18	18
4-Isopropyltoluene	40.0	42.2		ug/Kg		105	78 - 126	18	18
4-Methyl-2-pentanone	160	201	*	ug/Kg		125	45 - 145	43	30
Acetone	160	203	*	ug/Kg		127	20 - 160	32	30
Acrolein	237	202		ug/Kg		85	10 - 125	9	30
Acrylonitrile	400	508	*	ug/Kg		127	74 - 117	31	30
Benzene	40.0	47.1		ug/Kg		118	70 - 128	19	19
Bromobenzene	40.0	47.0		ug/Kg		118	80 - 120	17	19
Bromochloromethane	40.0	46.8		ug/Kg		117	78 - 123	19	19
Bromodichloromethane	40.0	46.0	*	ug/Kg		115	58 - 133	20	19
Bromoform	40.0	45.5	*	ug/Kg		114	50 - 124	27	25
Bromomethane	40.0	41.7		ug/Kg		104	57 - 148	8	29
Carbon disulfide	40.0	46.5		ug/Kg		116	45 - 160	15	30
Carbon tetrachloride	40.0	45.5		ug/Kg		114	59 - 145	17	19
Chlorobenzene	40.0	45.9		ug/Kg		115	75 - 120	20	21
Chlorodibromomethane	40.0	48.2	*	ug/Kg		120	42 - 129	26	23
Chloroethane	40.0	39.9		ug/Kg		100	48 - 167	4	53
Chloroform	40.0	48.0	*	ug/Kg		120	78 - 125	20	17
Chloromethane	40.0	45.3		ug/Kg		113	55 - 136	5	26
cis-1,2-Dichloroethene	40.0	46.1		ug/Kg		115	70 - 130	19	19
cis-1,3-Dichloropropene	40.0	45.3	*	ug/Kg		113	69 - 129	31	19
Dibromomethane	40.0	47.9		ug/Kg		120	78 - 126	18	18
Dichlorodifluoromethane	40.0	43.7		ug/Kg		109	38 - 150	7	26
Ethylbenzene	40.0	49.5		ug/Kg		124	78 - 126	20	23
Hexachloro-1,3-butadiene	40.0	43.9	*	ug/Kg		110	68 - 134	23	21
Iodomethane	40.0	44.3		ug/Kg		111	44 - 148	13	30
Isopropylbenzene	40.0	48.3	*	ug/Kg		121	79 - 127	22	20
Methyl tert-butyl ether	40.0	46.6		ug/Kg		117	65 - 125	19	30
Methylene Chloride	40.0	43.7		ug/Kg		109	57 - 146	15	21
m-Xylene & p-Xylene	40.0	45.8		ug/Kg		114	78 - 126	20	23
Naphthalene	40.0	52.0		ug/Kg		130	14 - 170	29	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-180906/3-A
Matrix: Solid
Analysis Batch: 180853

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 180906

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
n-Butylbenzene			40.0	41.4	*	ug/Kg		104	78 - 128	19	17
N-Propylbenzene			40.0	48.9		ug/Kg		122	81 - 127	14	20
o-Xylene			40.0	48.4		ug/Kg		121	77 - 127	21	22
sec-Butylbenzene			40.0	42.1		ug/Kg		105	78 - 128	16	17
Styrene			40.0	51.1	*	ug/Kg		128	79 - 127	19	21
tert-Butylbenzene			40.0	47.6		ug/Kg		119	71 - 136	16	27
Tetrachloroethene			40.0	43.1		ug/Kg		108	56 - 155	27	27
Toluene			40.0	46.6	*	ug/Kg		117	75 - 126	24	19
trans-1,2-Dichloroethene			40.0	46.4	*	ug/Kg		116	76 - 131	20	18
trans-1,3-Dichloropropene			40.0	46.4	*	ug/Kg		116	72 - 129	29	20
trans-1,4-Dichloro-2-butene			40.0	49.7	*	ug/Kg		124	42 - 160	31	30
Trichloroethene			40.0	42.6	*	ug/Kg		106	83 - 124	19	17
Trichlorofluoromethane			40.0	40.6		ug/Kg		101	47 - 165	3	54
Vinyl acetate			80.6	85.4		ug/Kg		106	19 - 144	15	30
Vinyl chloride			40.0	45.8		ug/Kg		114	67 - 131	10	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*71 - 136*
4-Bromofluorobenzene (Surr)	*105*		*70 - 120*
Dibromofluoromethane (Surr)	*107*		*75 - 132*
Toluene-d8 (Surr)	*97*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*65 - 140*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-181417/1-A
Matrix: Solid
Analysis Batch: 181641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181417

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
1,2-Dichlorobenzene	ND		5.5	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
1,3-Dichlorobenzene	ND		5.0	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
1,4-Dichlorobenzene	ND		5.0	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
1-Methylnaphthalene	ND		3.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
2,2'-oxybis[1-chloropropane]	ND		25	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
2,4,5-Trichlorophenol	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
2,4,6-Trichlorophenol	ND		15	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
2,4-Dichlorophenol	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
2,4-Dimethylphenol	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
2,4-Dinitrophenol	ND		100	20	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
2,4-Dinitrotoluene	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
2,6-Dinitrotoluene	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
2-Chloronaphthalene	ND		2.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
2-Chlorophenol	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
2-Methylphenol	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
2-Nitroaniline	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-181417/1-A
Matrix: Solid
Analysis Batch: 181641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181417

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
3 & 4 Methylphenol	ND		20	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
3,3'-Dichlorobenzidine	ND		20	3.0	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
3-Nitroaniline	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
4,6-Dinitro-2-methylphenol	ND		100	10	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
4-Bromophenyl phenyl ether	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
4-Chloro-3-methylphenol	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
4-Chloroaniline	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
4-Chlorophenyl phenyl ether	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
4-Nitroaniline	ND		10	2.0	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
4-Nitrophenol	ND		100	25	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Acenaphthene	ND		2.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Anthracene	ND		2.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Benzoic acid	ND		250	75	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Benzyl alcohol	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Bis(2-chloroethoxy)methane	ND		10	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Bis(2-chloroethyl)ether	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Bis(2-ethylhexyl) phthalate	ND		60	5.0	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Butyl benzyl phthalate	7.78	J	20	5.0	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Carbazole	ND		10	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Chrysene	ND		2.5	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Dibenzofuran	ND		10	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Diethyl phthalate	2.07	J	20	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Di-n-butyl phthalate	ND		50	5.0	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Di-n-octyl phthalate	0.953	J	50	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Fluoranthene	ND		2.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Fluorene	ND		2.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Hexachlorobenzene	ND		5.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Hexachlorobutadiene	ND		5.0	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Hexachlorocyclopentadiene	ND		10	1.0	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Hexachloroethane	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Isophorone	ND		10	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Naphthalene	ND		2.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Nitrobenzene	ND		10	3.4	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
N-Nitrosodimethylamine	ND		100	25	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
N-Nitrosodi-n-propylamine	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Pentachlorophenol	ND		20	2.0	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Phenanthrene	ND		2.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-181417/1-A
Matrix: Solid
Analysis Batch: 181641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181417

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		10	1.5	ug/Kg		02/02/15 07:00	02/03/15 20:52	1
Pyrene	ND		2.0	0.50	ug/Kg		02/02/15 07:00	02/03/15 20:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*65*		*28 - 143*	*02/02/15 07:00*	*02/03/15 20:52*	*1*
2-Fluorobiphenyl	*84*		*42 - 140*	*02/02/15 07:00*	*02/03/15 20:52*	*1*
2-Fluorophenol	*92*		*36 - 145*	*02/02/15 07:00*	*02/03/15 20:52*	*1*
Nitrobenzene-d5	*81*		*38 - 141*	*02/02/15 07:00*	*02/03/15 20:52*	*1*
Phenol-d5	*87*		*38 - 149*	*02/02/15 07:00*	*02/03/15 20:52*	*1*
Terphenyl-d14	*110*		*42 - 151*	*02/02/15 07:00*	*02/03/15 20:52*	*1*

Lab Sample ID: LCS 580-181417/2-A
Matrix: Solid
Analysis Batch: 181641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181417

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	100	76.2		ug/Kg		76	66 - 115
1,2-Dichlorobenzene	100	73.1		ug/Kg		73	64 - 112
1,3-Dichlorobenzene	100	74.2		ug/Kg		74	64 - 111
1,4-Dichlorobenzene	100	72.6		ug/Kg		73	65 - 110
1-Methylnaphthalene	100	77.8		ug/Kg		78	62 - 118
2,2'-oxybis[1-chloropropane]	100	75.7		ug/Kg		76	41 - 126
2,4,5-Trichlorophenol	100	74.4		ug/Kg		74	57 - 133
2,4,6-Trichlorophenol	100	70.6		ug/Kg		71	62 - 133
2,4-Dichlorophenol	100	82.1		ug/Kg		82	68 - 125
2,4-Dimethylphenol	100	90.8		ug/Kg		91	54 - 139
2,4-Dinitrophenol	200	97.0	J	ug/Kg		49	20 - 141
2,4-Dinitrotoluene	100	78.8		ug/Kg		79	68 - 121
2,6-Dinitrotoluene	100	76.3		ug/Kg		76	66 - 123
2-Chloronaphthalene	100	78.3		ug/Kg		78	68 - 112
2-Chlorophenol	100	79.2		ug/Kg		79	68 - 117
2-Methylnaphthalene	100	78.3		ug/Kg		78	64 - 119
2-Methylphenol	100	79.6		ug/Kg		80	71 - 116
2-Nitroaniline	100	79.4		ug/Kg		79	64 - 112
2-Nitrophenol	100	79.4		ug/Kg		79	67 - 127
3 & 4 Methylphenol	100	85.3		ug/Kg		85	70 - 116
3,3'-Dichlorobenzidine	200	162		ug/Kg		81	20 - 103
3-Nitroaniline	100	63.2		ug/Kg		63	27 - 103
4,6-Dinitro-2-methylphenol	200	134		ug/Kg		67	48 - 130
4-Bromophenyl phenyl ether	100	82.4		ug/Kg		82	68 - 122
4-Chloro-3-methylphenol	100	84.6		ug/Kg		85	69 - 121
4-Chloroaniline	100	49.1		ug/Kg		49	20 - 103
4-Chlorophenyl phenyl ether	100	78.7		ug/Kg		79	75 - 108
4-Nitroaniline	100	84.7		ug/Kg		85	58 - 108
4-Nitrophenol	200	146		ug/Kg		73	20 - 165
Acenaphthene	100	79.9		ug/Kg		80	68 - 116
Acenaphthylene	100	75.9		ug/Kg		76	68 - 120
Anthracene	100	84.3		ug/Kg		84	73 - 116

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-181417/2-A
Matrix: Solid
Analysis Batch: 181641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181417

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	100	90.9		ug/Kg		91	76 - 119
Benzo[a]pyrene	100	85.7		ug/Kg		86	72 - 117
Benzo[b]fluoranthene	100	93.8		ug/Kg		94	63 - 132
Benzo[g,h,i]perylene	100	85.5		ug/Kg		86	55 - 139
Benzo[k]fluoranthene	100	90.4		ug/Kg		90	63 - 119
Benzoic acid	200	97.9	J	ug/Kg		49	29 - 158
Benzyl alcohol	100	78.7		ug/Kg		79	55 - 123
Bis(2-chloroethoxy)methane	100	77.3		ug/Kg		77	69 - 107
Bis(2-chloroethyl)ether	100	73.1		ug/Kg		73	62 - 110
Bis(2-ethylhexyl) phthalate	100	106		ug/Kg		106	62 - 144
Butyl benzyl phthalate	100	112		ug/Kg		112	69 - 142
Carbazole	100	97.3		ug/Kg		97	76 - 135
Chrysene	100	103		ug/Kg		103	75 - 114
Dibenz(a,h)anthracene	100	96.4		ug/Kg		96	56 - 134
Dibenzofuran	100	77.7		ug/Kg		78	72 - 109
Diethyl phthalate	100	85.5		ug/Kg		85	73 - 116
Dimethyl phthalate	100	77.4	*	ug/Kg		77	78 - 117
Di-n-butyl phthalate	100	84.5		ug/Kg		84	66 - 140
Di-n-octyl phthalate	100	86.4		ug/Kg		86	65 - 141
Fluoranthene	100	91.6		ug/Kg		92	73 - 125
Fluorene	100	80.6		ug/Kg		81	70 - 121
Hexachlorobenzene	100	90.8		ug/Kg		91	66 - 117
Hexachlorobutadiene	100	72.0		ug/Kg		72	65 - 116
Hexachlorocyclopentadiene	100	73.8		ug/Kg		74	46 - 131
Hexachloroethane	100	69.3		ug/Kg		69	62 - 120
Indeno[1,2,3-cd]pyrene	100	92.8		ug/Kg		93	56 - 127
Isophorone	100	81.9		ug/Kg		82	67 - 119
Naphthalene	100	77.0		ug/Kg		77	62 - 112
Nitrobenzene	100	71.3		ug/Kg		71	64 - 118
N-Nitrosodimethylamine	100	73.3	J	ug/Kg		73	38 - 133
N-Nitrosodi-n-propylamine	100	81.7		ug/Kg		82	62 - 116
N-Nitrosodiphenylamine	100	82.6		ug/Kg		83	73 - 115
Pentachlorophenol	200	130		ug/Kg		65	45 - 117
Phenanthrene	100	87.3		ug/Kg		87	73 - 106
Phenol	100	81.9		ug/Kg		82	63 - 111
Pyrene	100	88.3		ug/Kg		88	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*67*		*28 - 143*
2-Fluorobiphenyl	*68*		*42 - 140*
2-Fluorophenol	*79*		*36 - 145*
Nitrobenzene-d5	*73*		*38 - 141*
Phenol-d5	*76*		*38 - 149*
Terphenyl-d14	*84*		*42 - 151*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-181417/3-A
Matrix: Solid
Analysis Batch: 181641

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 181417

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	100	85.3		ug/Kg		85	66 - 115	11	28
1,2-Dichlorobenzene	100	86.8		ug/Kg		87	64 - 112	17	30
1,3-Dichlorobenzene	100	83.4		ug/Kg		83	64 - 111	12	30
1,4-Dichlorobenzene	100	81.1		ug/Kg		81	65 - 110	11	30
1-Methylnaphthalene	100	90.2		ug/Kg		90	62 - 118	15	30
2,2'-oxybis[1-chloropropane]	100	84.4		ug/Kg		84	41 - 126	11	57
2,4,5-Trichlorophenol	100	87.8		ug/Kg		88	57 - 133	17	30
2,4,6-Trichlorophenol	100	88.8		ug/Kg		89	62 - 133	23	30
2,4-Dichlorophenol	100	101		ug/Kg		101	68 - 125	21	30
2,4-Dimethylphenol	100	92.8		ug/Kg		93	54 - 139	2	30
2,4-Dinitrophenol	200	112		ug/Kg		56	20 - 141	14	36
2,4-Dinitrotoluene	100	88.6		ug/Kg		89	68 - 121	12	30
2,6-Dinitrotoluene	100	94.5		ug/Kg		94	66 - 123	21	30
2-Chloronaphthalene	100	88.3		ug/Kg		88	68 - 112	12	25
2-Chlorophenol	100	90.0		ug/Kg		90	68 - 117	13	27
2-Methylnaphthalene	100	92.7		ug/Kg		93	64 - 119	17	27
2-Methylphenol	100	87.2		ug/Kg		87	71 - 116	9	25
2-Nitroaniline	100	95.5		ug/Kg		96	64 - 112	18	22
2-Nitrophenol	100	95.7		ug/Kg		96	67 - 127	19	30
3 & 4 Methylphenol	100	101		ug/Kg		101	70 - 116	17	27
3,3'-Dichlorobenzidine	200	168		ug/Kg		84	20 - 103	4	60
3-Nitroaniline	100	72.7		ug/Kg		73	27 - 103	14	33
4,6-Dinitro-2-methylphenol	200	152		ug/Kg		76	48 - 130	12	22
4-Bromophenyl phenyl ether	100	105		ug/Kg		105	68 - 122	24	30
4-Chloro-3-methylphenol	100	104		ug/Kg		104	69 - 121	21	27
4-Chloroaniline	100	49.6		ug/Kg		50	20 - 103	1	60
4-Chlorophenyl phenyl ether	100	94.3		ug/Kg		94	75 - 108	18	30
4-Nitroaniline	100	98.4		ug/Kg		98	58 - 108	15	32
4-Nitrophenol	200	174		ug/Kg		87	20 - 165	18	30
Acenaphthene	100	91.4		ug/Kg		91	68 - 116	13	27
Acenaphthylene	100	88.6		ug/Kg		89	68 - 120	15	28
Anthracene	100	96.4		ug/Kg		96	73 - 116	13	27
Benzo[a]anthracene	100	101		ug/Kg		101	76 - 119	11	27
Benzo[a]pyrene	100	93.6		ug/Kg		94	72 - 117	9	30
Benzo[b]fluoranthene	100	103		ug/Kg		103	63 - 132	9	30
Benzo[g,h,i]perylene	100	94.0		ug/Kg		94	55 - 139	9	28
Benzo[k]fluoranthene	100	99.3		ug/Kg		99	63 - 119	9	30
Benzoic acid	200	167	J *	ug/Kg		84	29 - 158	52	28
Benzyl alcohol	100	91.2		ug/Kg		91	55 - 123	15	60
Bis(2-chloroethoxy)methane	100	87.0		ug/Kg		87	69 - 107	12	30
Bis(2-chloroethyl)ether	100	84.6		ug/Kg		85	62 - 110	14	22
Bis(2-ethylhexyl) phthalate	100	107		ug/Kg		107	62 - 144	2	30
Butyl benzyl phthalate	100	119		ug/Kg		119	69 - 142	6	30
Carbazole	100	107		ug/Kg		107	76 - 135	10	30
Chrysene	100	103		ug/Kg		103	75 - 114	0	26
Dibenz(a,h)anthracene	100	108		ug/Kg		108	56 - 134	11	30
Dibenzofuran	100	90.4		ug/Kg		90	72 - 109	15	30
Diethyl phthalate	100	96.4		ug/Kg		96	73 - 116	12	26

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-181417/3-A
Matrix: Solid
Analysis Batch: 181641

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 181417

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dimethyl phthalate			100	93.0		ug/Kg		93	78 - 117	18	30
Di-n-butyl phthalate			100	94.4		ug/Kg		94	66 - 140	11	30
Di-n-octyl phthalate			100	94.7		ug/Kg		95	65 - 141	9	30
Fluoranthene			100	99.7		ug/Kg		100	73 - 125	8	30
Fluorene			100	96.4		ug/Kg		96	70 - 121	18	30
Hexachlorobenzene			100	101		ug/Kg		101	66 - 117	11	30
Hexachlorobutadiene			100	78.5		ug/Kg		79	65 - 116	9	30
Hexachlorocyclopentadiene			100	94.8		ug/Kg		95	46 - 131	25	29
Hexachloroethane			100	80.6		ug/Kg		81	62 - 120	15	30
Indeno[1,2,3-cd]pyrene			100	92.9		ug/Kg		93	56 - 127	0	29
Isophorone			100	93.2		ug/Kg		93	67 - 119	13	30
Naphthalene			100	88.0		ug/Kg		88	62 - 112	13	26
Nitrobenzene			100	86.6		ug/Kg		87	64 - 118	19	30
N-Nitrosodimethylamine			100	97.5	J	ug/Kg		98	38 - 133	28	30
N-Nitrosodi-n-propylamine			100	91.3		ug/Kg		91	62 - 116	11	28
N-Nitrosodiphenylamine			100	90.6		ug/Kg		91	73 - 115	9	30
Pentachlorophenol			200	121		ug/Kg		60	45 - 117	7	23
Phenanthrene			100	102		ug/Kg		102	73 - 106	16	28
Phenol			100	95.0		ug/Kg		95	63 - 111	15	26
Pyrene			100	97.5		ug/Kg		98	70 - 120	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*76*		*28 - 143*
2-Fluorobiphenyl	*85*		*42 - 140*
2-Fluorophenol	*90*		*36 - 145*
Nitrobenzene-d5	*81*		*38 - 141*
Phenol-d5	*87*		*38 - 149*
Terphenyl-d14	*97*		*42 - 151*

Lab Sample ID: 580-47135-1 MS
Matrix: Solid
Analysis Batch: 181641

Client Sample ID: AS-CB-02-20150120-S
Prep Type: Total/NA
Prep Batch: 181417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,4-Trichlorobenzene	ND		229	218		ug/Kg	☼	95	66 - 115		
1,2-Dichlorobenzene	ND		229	175		ug/Kg	☼	77	64 - 112		
1,3-Dichlorobenzene	ND		229	166		ug/Kg	☼	72	64 - 111		
1,4-Dichlorobenzene	ND		229	190		ug/Kg	☼	83	65 - 110		
1-Methylnaphthalene	210		229	337	F1	ug/Kg	☼	54	62 - 118		
2,2'-oxybis[1-chloropropane]	ND		229	165	J	ug/Kg	☼	72	41 - 126		
2,4,5-Trichlorophenol	ND		229	165	J	ug/Kg	☼	72	57 - 133		
2,4,6-Trichlorophenol	ND		229	242	J	ug/Kg	☼	105	62 - 133		
2,4-Dichlorophenol	ND		229	199	J	ug/Kg	☼	87	68 - 125		
2,4-Dimethylphenol	ND		229	272		ug/Kg	☼	119	54 - 139		
2,4-Dinitrophenol	ND		459	ND		ug/Kg	☼	NC	20 - 141		
2,4-Dinitrotoluene	ND		229	206	J	ug/Kg	☼	90	68 - 121		
2,6-Dinitrotoluene	ND		229	367	F1	ug/Kg	☼	160	66 - 123		
2-Chloronaphthalene	ND		229	198		ug/Kg	☼	86	68 - 112		

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-47135-1 MS
Matrix: Solid
Analysis Batch: 181641

Client Sample ID: AS-CB-02-20150120-S
Prep Type: Total/NA
Prep Batch: 181417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorophenol	ND		229	179	J	ug/Kg	☼	78	68 - 117
2-Methylnaphthalene	280		229	434		ug/Kg	☼	65	64 - 119
2-Methylphenol	ND		229	249		ug/Kg	☼	108	71 - 116
2-Nitroaniline	ND		229	264	F1	ug/Kg	☼	115	64 - 112
2-Nitrophenol	ND		229	303	F1	ug/Kg	☼	132	67 - 127
3 & 4 Methylphenol	4400		229	4660	4	ug/Kg	☼	108	70 - 116
3,3'-Dichlorobenzidine	ND		459	ND	F1	ug/Kg	☼	0	20 - 103
3-Nitroaniline	ND		229	117	J	ug/Kg	☼	51	27 - 103
4,6-Dinitro-2-methylphenol	ND		459	ND	F1	ug/Kg	☼	0	48 - 130
4-Bromophenyl phenyl ether	ND		229	337	F1	ug/Kg	☼	147	68 - 122
4-Chloro-3-methylphenol	ND		229	305	F1	ug/Kg	☼	133	69 - 121
4-Chloroaniline	ND		229	41.8	J F1	ug/Kg	☼	18	20 - 103
4-Chlorophenyl phenyl ether	ND		229	227	J	ug/Kg	☼	99	75 - 108
4-Nitroaniline	ND		229	107	J F1	ug/Kg	☼	47	58 - 108
4-Nitrophenol	ND		459	1510	J	ug/Kg	☼	NC	20 - 165
Acenaphthene	70		229	261		ug/Kg	☼	83	68 - 116
Acenaphthylene	52		229	232		ug/Kg	☼	79	68 - 120
Anthracene	170		229	428		ug/Kg	☼	111	73 - 116
Benzo[a]anthracene	380		229	543	F1	ug/Kg	☼	71	76 - 119
Benzo[a]pyrene	450		229	586	F1	ug/Kg	☼	58	72 - 117
Benzo[b]fluoranthene	700		229	818	F1	ug/Kg	☼	52	63 - 132
Benzo[g,h,i]perylene	280		229	267	F1	ug/Kg	☼	-4	55 - 139
Benzo[k]fluoranthene	230		229	506		ug/Kg	☼	119	63 - 119
Benzoic acid	ND	*	459	ND		ug/Kg	☼	NC	29 - 158
Benzyl alcohol	ND		229	260		ug/Kg	☼	113	55 - 123
Bis(2-chloroethoxy)methane	ND		229	168	J	ug/Kg	☼	73	69 - 107
Bis(2-chloroethyl)ether	ND		229	160	J	ug/Kg	☼	70	62 - 110
Bis(2-ethylhexyl) phthalate	13000		229	13700	4	ug/Kg	☼	293	62 - 144
Butyl benzyl phthalate	910	B	229	1130		ug/Kg	☼	95	69 - 142
Carbazole	79	J	229	319		ug/Kg	☼	105	76 - 135
Chrysene	820		229	933	F1	ug/Kg	☼	50	75 - 114
Dibenz(a,h)anthracene	42	J	229	184		ug/Kg	☼	62	56 - 134
Dibenzofuran	74	J	229	271		ug/Kg	☼	86	72 - 109
Diethyl phthalate	ND		229	236	J	ug/Kg	☼	103	73 - 116
Dimethyl phthalate	94	J *	229	225	J F1	ug/Kg	☼	57	78 - 117
Di-n-butyl phthalate	ND		229	ND	F1	ug/Kg	☼	0	66 - 140
Di-n-octyl phthalate	370	J B	229	929	J F1	ug/Kg	☼	243	65 - 141
Fluoranthene	1100		229	1160	4	ug/Kg	☼	40	73 - 125
Fluorene	140		229	344		ug/Kg	☼	91	70 - 121
Hexachlorobenzene	ND		229	205		ug/Kg	☼	89	66 - 117
Hexachlorobutadiene	ND		229	160		ug/Kg	☼	70	65 - 116
Hexachlorocyclopentadiene	ND		229	ND	F1	ug/Kg	☼	0	46 - 131
Hexachloroethane	ND		229	124	J F1	ug/Kg	☼	54	62 - 120
Indeno[1,2,3-cd]pyrene	230		229	301	F1	ug/Kg	☼	32	56 - 127
Isophorone	ND		229	231		ug/Kg	☼	101	67 - 119
Naphthalene	120		229	273		ug/Kg	☼	67	62 - 112
Nitrobenzene	ND		229	236		ug/Kg	☼	103	64 - 118
N-Nitrosodimethylamine	ND		229	ND		ug/Kg	☼	NC	38 - 133

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-47135-1 MS
Matrix: Solid
Analysis Batch: 181641

Client Sample ID: AS-CB-02-20150120-S
Prep Type: Total/NA
Prep Batch: 181417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodi-n-propylamine	ND		229	248		ug/Kg	☼	108	62 - 116
N-Nitrosodiphenylamine	190		229	282	F1	ug/Kg	☼	38	73 - 115
Pentachlorophenol	ND		459	455	J	ug/Kg	☼	99	45 - 117
Phenanthrene	710		229	1060	F1	ug/Kg	☼	151	73 - 106
Phenol	420		229	633		ug/Kg	☼	94	63 - 111
Pyrene	1300		229	1370	4	ug/Kg	☼	31	70 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*97*		*28 - 143*
2-Fluorobiphenyl	*86*		*42 - 140*
2-Fluorophenol	*79*		*36 - 145*
Nitrobenzene-d5	*136*		*38 - 141*
Phenol-d5	*78*		*38 - 149*
Terphenyl-d14	*104*		*42 - 151*

Lab Sample ID: 580-47135-1 MSD
Matrix: Solid
Analysis Batch: 181641

Client Sample ID: AS-CB-02-20150120-S
Prep Type: Total/NA
Prep Batch: 181417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		224	201		ug/Kg	☼	90	66 - 115	8	28
1,2-Dichlorobenzene	ND		224	164		ug/Kg	☼	73	64 - 112	7	60
1,3-Dichlorobenzene	ND		224	183		ug/Kg	☼	81	64 - 111	10	60
1,4-Dichlorobenzene	ND		224	161		ug/Kg	☼	72	65 - 110	16	32
1-Methylnaphthalene	210		224	354		ug/Kg	☼	63	62 - 118	5	30
2,2'-oxybis[1-chloropropane]	ND		224	198	J	ug/Kg	☼	88	41 - 126	18	60
2,4,5-Trichlorophenol	ND		224	210	J	ug/Kg	☼	94	57 - 133	24	60
2,4,6-Trichlorophenol	ND		224	232	J	ug/Kg	☼	103	62 - 133	4	60
2,4-Dichlorophenol	ND		224	242		ug/Kg	☼	108	68 - 125	20	60
2,4-Dimethylphenol	ND		224	251		ug/Kg	☼	112	54 - 139	8	60
2,4-Dinitrophenol	ND		449	ND		ug/Kg	☼	NC	20 - 141	NC	60
2,4-Dinitrotoluene	ND		224	270		ug/Kg	☼	120	68 - 121	27	31
2,6-Dinitrotoluene	ND		224	297	F1	ug/Kg	☼	132	66 - 123	21	60
2-Chloronaphthalene	ND		224	199		ug/Kg	☼	89	68 - 112	1	25
2-Chlorophenol	ND		224	185	J	ug/Kg	☼	83	68 - 117	4	27
2-Methylnaphthalene	280		224	440		ug/Kg	☼	70	64 - 119	2	27
2-Methylphenol	ND		224	259		ug/Kg	☼	115	71 - 116	4	25
2-Nitroaniline	ND		224	314	F1	ug/Kg	☼	140	64 - 112	17	60
2-Nitrophenol	ND		224	191	J	ug/Kg	☼	85	67 - 127	45	60
3 & 4 Methylphenol	4400		224	4600	4	ug/Kg	☼	86	70 - 116	1	27
3,3'-Dichlorobenzidine	ND		449	ND	F1	ug/Kg	☼	0	20 - 103	NC	60
3-Nitroaniline	ND		224	44.4	J F1 F2	ug/Kg	☼	20	27 - 103	90	60
4,6-Dinitro-2-methylphenol	ND		449	ND	F1	ug/Kg	☼	0	48 - 130	NC	60
4-Bromophenyl phenyl ether	ND		224	173	J F2	ug/Kg	☼	77	68 - 122	64	60
4-Chloro-3-methylphenol	ND		224	182	J F2	ug/Kg	☼	81	69 - 121	50	27
4-Chloroaniline	ND		224	ND	F1	ug/Kg	☼	0	20 - 103	NC	60
4-Chlorophenyl phenyl ether	ND		224	234		ug/Kg	☼	104	75 - 108	3	60
4-Nitroaniline	ND		224	73.1	J F1	ug/Kg	☼	33	58 - 108	37	60

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-47135-1 MSD
Matrix: Solid
Analysis Batch: 181641

Client Sample ID: AS-CB-02-20150120-S
Prep Type: Total/NA
Prep Batch: 181417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Nitrophenol	ND		449	ND		ug/Kg	☼	NC	20 - 165	NC	33
Acenaphthene	70		224	294		ug/Kg	☼	100	68 - 116	12	27
Acenaphthylene	52		224	244		ug/Kg	☼	86	68 - 120	5	28
Anthracene	170		224	329	F1	ug/Kg	☼	69	73 - 116	26	27
Benzo[a]anthracene	380		224	598		ug/Kg	☼	97	76 - 119	10	27
Benzo[a]pyrene	450		224	517	F1	ug/Kg	☼	28	72 - 117	13	30
Benzo[b]fluoranthene	700		224	790	F1	ug/Kg	☼	41	63 - 132	3	31
Benzo[g,h,i]perylene	280		224	275	F1	ug/Kg	☼	-0.5	55 - 139	3	28
Benzo[k]fluoranthene	230		224	455		ug/Kg	☼	99	63 - 119	11	31
Benzoic acid	ND	*	449	ND		ug/Kg	☼	NC	29 - 158	NC	60
Benzyl alcohol	ND		224	244		ug/Kg	☼	109	55 - 123	6	60
Bis(2-chloroethoxy)methane	ND		224	190	J	ug/Kg	☼	85	69 - 107	12	60
Bis(2-chloroethyl)ether	ND		224	176	J	ug/Kg	☼	78	62 - 110	9	60
Bis(2-ethylhexyl) phthalate	13000		224	12400	4	ug/Kg	☼	-285	62 - 144	10	60
Butyl benzyl phthalate	910	B	224	834	4	ug/Kg	☼	-34	69 - 142	30	60
Carbazole	79	J	224	318		ug/Kg	☼	107	76 - 135	0	60
Chrysene	820		224	875	F1	ug/Kg	☼	25	75 - 114	6	26
Dibenz(a,h)anthracene	42	J	224	192		ug/Kg	☼	67	56 - 134	5	30
Dibenzofuran	74	J	224	253		ug/Kg	☼	80	72 - 109	7	60
Diethyl phthalate	ND		224	208	J	ug/Kg	☼	93	73 - 116	13	26
Dimethyl phthalate	94	J *	224	200	J F1	ug/Kg	☼	47	78 - 117	12	60
Di-n-butyl phthalate	ND		224	ND	F1	ug/Kg	☼	0	66 - 140	NC	60
Di-n-octyl phthalate	370	J B	224	535	J F2	ug/Kg	☼	73	65 - 141	54	31
Fluoranthene	1100		224	1060	4	ug/Kg	☼	-3	73 - 125	9	36
Fluorene	140		224	316		ug/Kg	☼	80	70 - 121	8	31
Hexachlorobenzene	ND		224	200		ug/Kg	☼	89	66 - 117	2	60
Hexachlorobutadiene	ND		224	179		ug/Kg	☼	80	65 - 116	11	60
Hexachlorocyclopentadiene	ND		224	ND	F1	ug/Kg	☼	0	46 - 131	NC	60
Hexachloroethane	ND		224	90.2	J F1	ug/Kg	☼	40	62 - 120	31	60
Indeno[1,2,3-cd]pyrene	230		224	326	F1	ug/Kg	☼	44	56 - 127	8	29
Isophorone	ND		224	260		ug/Kg	☼	116	67 - 119	12	60
Naphthalene	120		224	302		ug/Kg	☼	82	62 - 112	10	26
Nitrobenzene	ND		224	129	J F1	ug/Kg	☼	58	64 - 118	59	60
N-Nitrosodimethylamine	ND		224	ND		ug/Kg	☼	NC	38 - 133	NC	60
N-Nitrosodi-n-propylamine	ND		224	383	F1 F2	ug/Kg	☼	171	62 - 116	43	28
N-Nitrosodiphenylamine	190		224	369		ug/Kg	☼	78	73 - 115	27	60
Pentachlorophenol	ND		449	429	J	ug/Kg	☼	96	45 - 117	6	68
Phenanthrene	710		224	827	F1	ug/Kg	☼	51	73 - 106	25	28
Phenol	420		224	685	F1	ug/Kg	☼	119	63 - 111	8	26
Pyrene	1300		224	1290	4	ug/Kg	☼	-4	70 - 120	6	31

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*97*		*28 - 143*
2-Fluorobiphenyl	*78*		*42 - 140*
2-Fluorophenol	*77*		*36 - 145*
Nitrobenzene-d5	*115*		*38 - 141*
Phenol-d5	*75*		*38 - 149*
Terphenyl-d14	*102*		*42 - 151*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-180804/1-A
Matrix: Solid
Analysis Batch: 180796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	0.789	J	4.0	0.50	mg/Kg		01/22/15 11:47	01/22/15 15:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*50 - 150*	*01/22/15 11:47*	*01/22/15 15:05*	*1*

Lab Sample ID: MB 580-180804/1-A
Matrix: Solid
Analysis Batch: 181258

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	0.779	J	4.0	0.50	mg/Kg		01/22/15 11:47	01/30/15 12:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*50 - 150*	*01/22/15 11:47*	*01/30/15 12:56*	*1*
Trifluorotoluene (Surr)	*90*		*50 - 150*	*01/22/15 11:47*	*01/30/15 12:56*	*1*

Lab Sample ID: LCS 580-180804/2-A
Matrix: Solid
Analysis Batch: 180796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180804

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			40.0	37.5		mg/Kg		94	68 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*

Lab Sample ID: LCS 580-180804/2-A
Matrix: Solid
Analysis Batch: 181258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180804

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			40.0	31.9	B	mg/Kg		80	68 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*50 - 150*
Trifluorotoluene (Surr)	*98*		*50 - 150*

Lab Sample ID: LCSD 580-180804/3-A
Matrix: Solid
Analysis Batch: 180796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 180804

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			40.0	36.5		mg/Kg		91	68 - 120	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-180804/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181258 — **Prep Batch: 180804**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			40.0	33.4	B	mg/Kg		83	68 - 120	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*
Trifluorotoluene (Surr)	*96*		*50 - 150*

Lab Sample ID: 580-47135-3 MS — **Client Sample ID: AS-CB-UNK-20150120-S**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 180796 — **Prep Batch: 180804**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline	86	B	172	238		mg/Kg	☼	88	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*50 - 150*

Lab Sample ID: 580-47135-3 MSD — **Client Sample ID: AS-CB-UNK-20150120-S**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 180796 — **Prep Batch: 180804**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline	86	B	172	238		mg/Kg	☼	88	50 - 150	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*50 - 150*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-181345/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181456 — **Prep Batch: 181345**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.010	0.0032	mg/Kg		01/29/15 14:56	02/01/15 01:06	1
Arochlor 1221	ND		0.011	0.0080	mg/Kg		01/29/15 14:56	02/01/15 01:06	1
Arochlor 1232	ND		0.011	0.0070	mg/Kg		01/29/15 14:56	02/01/15 01:06	1
Arochlor 1242	ND		0.010	0.0021	mg/Kg		01/29/15 14:56	02/01/15 01:06	1
Arochlor 1248	ND		0.010	0.0030	mg/Kg		01/29/15 14:56	02/01/15 01:06	1
Arochlor 1254	ND		0.010	0.0021	mg/Kg		01/29/15 14:56	02/01/15 01:06	1
Arochlor 1260	ND		0.010	0.0030	mg/Kg		01/29/15 14:56	02/01/15 01:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*45 - 135*	*01/29/15 14:56*	*02/01/15 01:06*	*1*
DCB Decachlorobiphenyl	*85*		*50 - 140*	*01/29/15 14:56*	*02/01/15 01:06*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 580-181345/16-A
Matrix: Solid
Analysis Batch: 181456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arochlor 1016	0.100	0.0870		mg/Kg		87	40 - 140
Arochlor 1260	0.100	0.0827		mg/Kg		83	60 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*73*		*45 - 135*
DCB Decachlorobiphenyl	*84*		*50 - 140*

Lab Sample ID: LCSD 580-181345/17-A
Matrix: Solid
Analysis Batch: 181456

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 181345

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arochlor 1016	0.100	0.0818		mg/Kg		82	40 - 140	6	20
Arochlor 1260	0.100	0.0801		mg/Kg		80	60 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*68*		*45 - 135*
DCB Decachlorobiphenyl	*81*		*50 - 140*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-180920/1-A
Matrix: Solid
Analysis Batch: 180966

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25	5.7	mg/Kg		01/23/15 13:28	01/26/15 13:40	1
Motor Oil (>C24-C36)	ND		50	9.1	mg/Kg		01/23/15 13:28	01/26/15 13:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*50 - 150*	*01/23/15 13:28*	*01/26/15 13:40*	*1*

Lab Sample ID: LCS 580-180920/2-A
Matrix: Solid
Analysis Batch: 180966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
#2 Diesel (C10-C24)	500	427		mg/Kg		85	70 - 125
Motor Oil (>C24-C36)	502	455		mg/Kg		91	64 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*83*		*50 - 150*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-180920/3-A
Matrix: Solid
Analysis Batch: 180966

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 180920

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			500	386		mg/Kg		77	70 - 125	10	16
Motor Oil (>C24-C36)			502	421		mg/Kg		84	64 - 127	8	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*76*		*50 - 150*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 580-181018/21-A
Matrix: Solid
Analysis Batch: 181092

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181018

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.50	0.18	mg/Kg		01/26/15 14:10	01/26/15 18:37	10
Lead	ND		0.50	0.048	mg/Kg		01/26/15 14:10	01/26/15 18:37	10
Antimony	ND		0.20	0.042	mg/Kg		01/26/15 14:10	01/26/15 18:37	10
Beryllium	ND		0.20	0.035	mg/Kg		01/26/15 14:10	01/26/15 18:37	10
Cadmium	ND		0.20	0.019	mg/Kg		01/26/15 14:10	01/26/15 18:37	10
Chromium	ND		0.50	0.063	mg/Kg		01/26/15 14:10	01/26/15 18:37	10
Copper	ND		0.40	0.098	mg/Kg		01/26/15 14:10	01/26/15 18:37	10
Nickel	ND		0.50	0.081	mg/Kg		01/26/15 14:10	01/26/15 18:37	10
Selenium	ND		1.0	0.20	mg/Kg		01/26/15 14:10	01/26/15 18:37	10
Silver	ND		0.20	0.012	mg/Kg		01/26/15 14:10	01/26/15 18:37	10
Thallium	ND		0.40	0.13	mg/Kg		01/26/15 14:10	01/26/15 18:37	10
Zinc	ND		5.0	1.1	mg/Kg		01/26/15 14:10	01/26/15 18:37	10

Lab Sample ID: LCS 580-181018/22-A
Matrix: Solid
Analysis Batch: 181092

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181018

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic			200	195		mg/Kg		98	80 - 120
Lead			50.0	49.5		mg/Kg		99	80 - 120
Antimony			150	144		mg/Kg		96	80 - 120
Beryllium			5.00	4.87		mg/Kg		97	80 - 120
Cadmium			5.00	4.92		mg/Kg		98	80 - 120
Chromium			20.0	20.6		mg/Kg		103	80 - 120
Copper			25.0	25.6		mg/Kg		103	80 - 120
Nickel			50.0	50.3		mg/Kg		101	80 - 120
Selenium			200	195		mg/Kg		97	80 - 120
Silver			30.0	33.9		mg/Kg		113	80 - 120
Thallium			200	197		mg/Kg		98	80 - 120
Zinc			200	198		mg/Kg		99	80 - 120

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-181018/23-A
Matrix: Solid
Analysis Batch: 181092

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 181018

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	200	196		mg/Kg		98	80 - 120	0	20
Lead	50.0	48.9		mg/Kg		98	80 - 120	1	20
Antimony	150	147		mg/Kg		98	80 - 120	2	20
Beryllium	5.00	4.84		mg/Kg		97	80 - 120	1	20
Cadmium	5.00	5.08		mg/Kg		102	80 - 120	3	20
Chromium	20.0	20.9		mg/Kg		105	80 - 120	1	20
Copper	25.0	25.6		mg/Kg		102	80 - 120	0	20
Nickel	50.0	49.9		mg/Kg		100	80 - 120	1	20
Selenium	200	196		mg/Kg		98	80 - 120	1	20
Silver	30.0	34.3		mg/Kg		114	80 - 120	1	20
Thallium	200	193		mg/Kg		97	80 - 120	2	20
Zinc	200	200		mg/Kg		100	80 - 120	1	20

Lab Sample ID: LCSSRM 580-181018/24-A
Matrix: Solid
Analysis Batch: 181092

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181018

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	139	135		mg/Kg		96.8	70.4 - 140.3
Lead	133	131		mg/Kg		98.4	72.9 - 127.8
Antimony	88.8	150		mg/Kg		169.1	22.0 - 259.0
Beryllium	96.1	89.9		mg/Kg		93.5	74.5 - 125.9
Cadmium	96.0	90.4		mg/Kg		94.2	73.2 - 127.1
Chromium	136	143		mg/Kg		105.2	69.9 - 129.4
Copper	168	165		mg/Kg		98.0	75.6 - 125.0
Nickel	123	121		mg/Kg		98.7	73.1 - 128.5
Selenium	177	172		mg/Kg		97.3	67.8 - 131.6
Silver	40.2	44.7		mg/Kg		111.2	66.2 - 134.1
Thallium	138	139		mg/Kg		100.6	68.1 - 131.9
Zinc	189	189		mg/Kg		99.9	69.8 - 130.7

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-181045/23-A
Matrix: Solid
Analysis Batch: 181152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181045

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0053	mg/Kg		01/27/15 10:00	01/27/15 11:19	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 580-181045/24-A
Matrix: Solid
Analysis Batch: 181152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181045

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.167	0.155		mg/Kg		93	80 - 120		

Lab Sample ID: LCSD 580-181045/25-A
Matrix: Solid
Analysis Batch: 181152

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 181045

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.167	0.145		mg/Kg		87	80 - 120	6	20

Method: 2540B - Percent Moisture

Lab Sample ID: 580-47135-1 DU
Matrix: Solid
Analysis Batch: 181257

Client Sample ID: AS-CB-02-20150120-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	43			41		%				5	20

Method: 9060_PSEP - TOC (Puget Sound)

Lab Sample ID: MB 580-181265/3
Matrix: Solid
Analysis Batch: 181265

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		2000	250	mg/Kg			01/28/15 17:02	1

Lab Sample ID: LCS 580-181265/4
Matrix: Solid
Analysis Batch: 181265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			2850	3440		mg/Kg		121	27.8 - 170		

Lab Sample ID: LCSD 580-181265/5
Matrix: Solid
Analysis Batch: 181265

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon			2850	3270		mg/Kg		115	27.8 - 170	5	35

Client Sample ID: AS-CB-02-20150120-S

Lab Sample ID: 580-47135-1

Date Collected: 01/20/15 11:00

Matrix: Solid

Date Received: 01/21/15 11:44

Percent Solids: 43.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			180906	01/21/15 14:55	JMB	TAL SEA
Total/NA	Analysis	8260B		1	180853	01/23/15 13:57	CJ	TAL SEA
Total/NA	Prep	3550B			181417	02/02/15 07:00	RMB	TAL SEA
Total/NA	Analysis	8270D		10	181641	02/04/15 00:48	ERB	TAL SEA
Total/NA	Prep	5035			180804	01/22/15 11:47	SOC	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	181258	01/30/15 14:35	SOC	TAL SEA
Total/NA	Prep	3550B			181345	01/29/15 14:56	ERZ	TAL SEA
Total/NA	Analysis	8082		1	181456	02/01/15 03:35	EKK	TAL SEA
Total/NA	Prep	3546			180920	01/23/15 13:28	RMB	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	180966	01/26/15 16:24	JJP	TAL SEA
Total/NA	Prep	3050B			181018	01/26/15 14:10	PAB	TAL SEA
Total/NA	Analysis	6020		10	181092	01/26/15 19:31	FCW	TAL SEA
Total/NA	Prep	7471A			181045	01/27/15 10:00	PAB	TAL SEA
Total/NA	Analysis	7471A		1	181152	01/27/15 12:10	SPP	TAL SEA
Total/NA	Analysis	2540B		1	181257	01/28/15 15:55	ERZ	TAL SEA
Total/NA	Analysis	9060_PSEP		1	181265	01/28/15 17:02	LKC	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	181058	01/26/15 19:00	LKC	TAL SEA

Client Sample ID: AS-CB-05-20150120-S

Lab Sample ID: 580-47135-2

Date Collected: 01/20/15 12:45

Matrix: Solid

Date Received: 01/21/15 11:44

Percent Solids: 35.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			180906	01/21/15 14:55	JMB	TAL SEA
Total/NA	Analysis	8260B		1	180853	01/23/15 14:25	CJ	TAL SEA
Total/NA	Prep	3550B			181417	02/02/15 07:00	RMB	TAL SEA
Total/NA	Analysis	8270D		10	181641	02/04/15 03:24	ERB	TAL SEA
Total/NA	Prep	3550B	DL		181417	02/02/15 07:00	RMB	TAL SEA
Total/NA	Analysis	8270D	DL	100	181641	02/04/15 03:50	ERB	TAL SEA
Total/NA	Prep	5035			180804	01/22/15 11:47	SOC	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	181258	01/30/15 15:08	SOC	TAL SEA
Total/NA	Prep	3550B			181345	01/29/15 14:56	ERZ	TAL SEA
Total/NA	Analysis	8082		1	181456	02/01/15 03:52	EKK	TAL SEA
Total/NA	Prep	3546			180920	01/23/15 13:28	RMB	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	180966	01/26/15 17:00	JJP	TAL SEA
Total/NA	Prep	3050B			181018	01/26/15 14:10	PAB	TAL SEA
Total/NA	Analysis	6020		10	181092	01/26/15 19:34	FCW	TAL SEA
Total/NA	Prep	7471A			181045	01/27/15 10:00	PAB	TAL SEA
Total/NA	Analysis	7471A		1	181152	01/27/15 12:17	SPP	TAL SEA
Total/NA	Analysis	2540B		1	181257	01/28/15 15:55	ERZ	TAL SEA
Total/NA	Analysis	9060_PSEP		1	181265	01/28/15 17:02	LKC	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	181058	01/26/15 19:00	LKC	TAL SEA

Lab Chronicle

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Client Sample ID: AS-CB-UNK-20150120-S

Lab Sample ID: 580-47135-3

Date Collected: 01/20/15 14:30
Matrix: Solid
Date Received: 01/21/15 11:44
Percent Solids: 59.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			180906	01/21/15 14:55	JMB	TAL SEA
Total/NA	Analysis	8260B		1	180853	01/23/15 14:53	CJ	TAL SEA
Total/NA	Prep	3550B			181417	02/02/15 07:00	RMB	TAL SEA
Total/NA	Analysis	8270D		10	181641	02/04/15 04:16	ERB	TAL SEA
Total/NA	Prep	5035			180804	01/22/15 11:47	SOC	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	180796	01/22/15 23:19	CJ	TAL SEA
Total/NA	Prep	3550B			181345	01/29/15 14:56	ERZ	TAL SEA
Total/NA	Analysis	8082		1	181456	02/01/15 04:08	EKK	TAL SEA
Total/NA	Prep	3546			180920	01/23/15 13:28	RMB	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	180966	01/26/15 17:18	JJP	TAL SEA
Total/NA	Prep	3050B			181018	01/26/15 14:10	PAB	TAL SEA
Total/NA	Analysis	6020		10	181092	01/26/15 19:38	FCW	TAL SEA
Total/NA	Prep	7471A			181045	01/27/15 10:00	PAB	TAL SEA
Total/NA	Analysis	7471A		1	181152	01/27/15 12:19	SPP	TAL SEA
Total/NA	Analysis	2540B		1	181257	01/28/15 15:55	ERZ	TAL SEA
Total/NA	Analysis	9060_PSEP		1	181265	01/28/15 17:02	LKC	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	181058	01/26/15 19:00	LKC	TAL SEA

Client Sample ID: TB-20150120

Lab Sample ID: 580-47135-4

Date Collected: 01/20/15 15:45
Matrix: Solid
Date Received: 01/21/15 11:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			180953	01/21/15 14:55	MMH	TAL SEA
Total/NA	Analysis	8260B		1	180749	01/22/15 12:51	TL1	TAL SEA
Total/NA	Prep	5035			180804	01/22/15 11:47	SOC	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	180796	01/22/15 18:22	CJ	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-15
California	State Program	9	2901	01-31-15 *
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-15
US Fish & Wildlife	Federal		LE192332-0	02-28-16
USDA	Federal		P330-11-00222	04-08-17
Washington	State Program	10	C553	02-17-15 *

* Certification renewal pending - certification considered valid.

Sample Summary

Client: Leidos, Inc.
Project/Site: NPDES Sampling Support

TestAmerica Job ID: 580-47135-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-47135-1	AS-CB-02-20150120-S	Solid	01/20/15 11:00	01/21/15 11:44
580-47135-2	AS-CB-05-20150120-S	Solid	01/20/15 12:45	01/21/15 11:44
580-47135-3	AS-CB-UNK-20150120-S	Solid	01/20/15 14:30	01/21/15 11:44
580-47135-4	TB-20150120	Solid	01/20/15 15:45	01/21/15 11:44

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
phone 253.922.2310 fax

Chain of Custody Record

47135

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☑ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Christine Nancarrow	Site Contact: Melissa Ivancevich	Date: 01/20/2015	COC No:
Leidos	Tel/Fax: 206.300.2144	Lab Contact: Kris Allen	Carrier: Courier	1 of 2 COCs
18912 N Creek Pkwy, Ste. 101	**Analysis Turnaround Time**			Sampler:
Bothell, WA 98011	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
425.398.2101 Phone	TAT if different from Below 3 Weeks			Walk-in Client:
425.485.5566 FAX	☐ 2 weeks			Lab Sampling:
Project Name: NPDES Sampling Support	☐ 1 week			
Site: Lower Duwamish Waterway	☐ 2 days			Job / SDG No.:
P O # P010163427	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCB Aroclors (Method 8082)	SVOC (Method 8270D/8270D-SIM)	TPH-Diesel (NWTPH-Dx)	Metals (Method 6020/7471A)	Total Solids (Method SM2540B)	TPH-Gasoline (NWTPH-Gx)	VOCs (EPA 8260B)	TOC (Plumb1981/9060)	Particle Size (PSEP_Plumb1981)	Sample Specific Notes:
AS-CB-02-20150120-S	01/20/15	1100	C	Sed	6	N		✓	✓	✓	✓	✓	✓	✓	✓	✓	-1
AS-CB-05-20150120-S	01/20/15	1245	C	Sed	6	N		✓	✓	✓	✓	✓	✓	✓	✓	✓	-2
AS-CB-UNK-20150120-S	01/20/15	1430	C	Sed	6	N		✓	✓	✓	✓	✓	✓	✓	✓	✓	-3
TB-20150120	01/20/15	1545			2								✓	✓			-4

580-47135 Chain of Custody

A2

Cooler/TB Dig/IR cor 4.0 °C unc 4.5 °C
Cooler Dsc Lc Green/Blue@Lab 1445
Wet/Packs Packing Bubble
w/cs

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other MeOH — 6

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☑ Yes ☐ No | Custody Seal No.: 242406 | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company:	Date/Time:		Company:	Date/Time:
Relinquished by: Melissa Ivancevich Melissa	Leidos	01/20/15 1600	Received by:	TASEA	1/21/15 1144
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

2/19/2015

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 580-47135-1

Login Number: 47135

List Source: TestAmerica Seattle

List Number: 1

Creator: Abello, Andrea N

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Not present
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

February 12, 2015

Vista Project I.D.: 1500108

Ms. Christine Nancarrow
Leidos
18912 North Creek Parkway, Suite 101
Bothell, WA 98011

Dear Ms. Nancarrow,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on January 21, 2015. This sample set was analyzed on a standard turn-around time, under your Project Name '1400647'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director

Vista Work Order No. 1500108
Case Narrative

Sample Condition on Receipt:

Three sediment samples and one effluent sample were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

EPA Method 1613

These samples were extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 1613 using a ZB-5MS GC column.

Holding Times

These samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with each preparation batch. No analytes were detected in the Method Blanks. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

EPA Method 1668C

These samples were extracted and analyzed for 209 PCB congeners by EPA Method 1668C using a ZB-1 GC column.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with each preparation batch. No analytes were detected above the sample quantitation limit in the Method Blanks. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

TABLE OF CONTENTS

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1500108-01	AS-CB-02-20150120-S	20-Jan-15 11:00	21-Jan-15 08:57	Glass Jar, 250mL
1500108-02	AS-CB-05-20150120-S	20-Jan-15 12:45	21-Jan-15 08:57	Glass Jar, 250mL
1500108-03	AS-CB-UNR-20150120-S	20-Jan-15 14:30	21-Jan-15 08:57	Glass Jar, 250mL
1500108-04	AS-CB-UNR-20150120-W	20-Jan-15 14:00	21-Jan-15 08:57	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L

Vista Project: 1500108

Client Project: 1400647

ANALYTICAL RESULTS

Sample ID: Method Blank

EPA Method 1613B

Matrix: Solid
Sample Size: 10.0 g

QC Batch: B5A0101
Date Extracted: 27-Jan-2015 11:06

Lab Sample: B5A0101-BLK1
Date Analyzed : 31-Jan-15 13:10 Column: ZB-5MS Analyst: WJL

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
2,3,7,8-TCDD	ND	0.500	0.0921		0.0778	
1,2,3,7,8-PeCDD	ND	2.50	0.0837		0.230	
1,2,3,4,7,8-HxCDD	ND	2.50	0.143		0.231	
1,2,3,6,7,8-HxCDD	ND	2.50	0.137		0.126	
1,2,3,7,8,9-HxCDD	ND	2.50	0.146		0.173	
1,2,3,4,6,7,8-HpCDD	ND	2.50	0.136		0.263	
OCDD	ND	5.00	0.233		0.167	
2,3,7,8-TCDF	ND	0.500	0.0497		0.0289	
1,2,3,7,8-PeCDF	ND	2.50	0.0648		0.254	
2,3,4,7,8-PeCDF	ND	2.50	0.0655		0.211	
1,2,3,4,7,8-HxCDF	ND	2.50	0.0449		0.154	
1,2,3,6,7,8-HxCDF	ND	2.50	0.0472		0.195	
2,3,4,6,7,8-HxCDF	ND	2.50	0.0541		0.0805	
1,2,3,7,8,9-HxCDF	ND	2.50	0.0705		0.195	
1,2,3,4,6,7,8-HpCDF	ND	2.50	0.0859		0.230	
1,2,3,4,7,8,9-HpCDF	ND	2.50	0.0823		0.211	
OCDF	ND	5.00	0.138		0.470	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-2,3,7,8-TCDD	85.5	25 - 164	
	13C-1,2,3,7,8-PeCDD	75.6	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	79.8	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	80.7	28 - 130	
	13C-1,2,3,7,8,9-HxCDD	79.0	32 - 141	
	13C-1,2,3,4,6,7,8-HpCDD	85.6	23 - 140	
	13C-OCDD	59.7	17 - 157	
	13C-2,3,7,8-TCDF	87.6	24 - 169	
	13C-1,2,3,7,8-PeCDF	86.2	24 - 185	
	13C-2,3,4,7,8-PeCDF	82.9	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	86.4	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	83.8	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	78.5	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	81.2	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	82.4	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	84.7	26 - 138	
	13C-OCDF	68.7	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	92.2	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin	0.00

TOTALS

Total TCDD	ND	0.0921
Total PeCDD	ND	0.0836
Total HxCDD	ND	0.156
Total HpCDD	ND	0.136
Total TCDF	ND	0.0497
Total PeCDF	ND	0.0693
Total HxCDF	ND	0.0558
Total HpCDF	ND	0.0875

DL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
RL - Reporting limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: OPR **EPA Method 1613B**

Matrix: Solid	QC Batch: B5A0101	Lab Sample: B5A0101-BS1
Sample Size: 10.0 g	Date Extracted: 27-Jan-2015 11:06	Date Analyzed: 31-Jan-15 10:46 Column: ZB-5MS Analyst: WJL

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits
2,3,7,8-TCDD	16.5	20.0	82.3	67 - 158
1,2,3,7,8-PeCDD	98.0	100	98.0	70 - 142
1,2,3,4,7,8-HxCDD	101	100	101	70 - 164
1,2,3,6,7,8-HxCDD	105	100	105	76 - 134
1,2,3,7,8,9-HxCDD	102	100	102	64 - 162
1,2,3,4,6,7,8-HpCDD	98.8	100	98.8	70 - 140
OCDD	202	200	101	78 - 144
2,3,7,8-TCDF	18.6	20.0	92.9	75 - 158
1,2,3,7,8-PeCDF	98.0	100	98.0	80 - 134
2,3,4,7,8-PeCDF	95.3	100	95.3	68 - 160
1,2,3,4,7,8-HxCDF	99.9	100	99.9	72 - 134
1,2,3,6,7,8-HxCDF	97.2	100	97.2	84 - 130
2,3,4,6,7,8-HxCDF	99.3	100	99.3	70 - 156
1,2,3,7,8,9-HxCDF	100	100	100	78 - 130
1,2,3,4,6,7,8-HpCDF	99.6	100	99.6	82 - 122
1,2,3,4,7,8,9-HpCDF	102	100	102	78 - 138
OCDF	203	200	101	63 - 170

	Labeled Standard	%R	LCL-UCL
IS	13C-2,3,7,8-TCDD	85.8	20 - 175
	13C-1,2,3,7,8-PeCDD	78.2	21 - 227
	13C-1,2,3,4,7,8-HxCDD	83.0	21 - 193
	13C-1,2,3,6,7,8-HxCDD	79.7	25 - 163
	13C-1,2,3,7,8,9-HxCDD	83.1	21 - 193
	13C-1,2,3,4,6,7,8-HpCDD	88.2	26 - 166
	13C-OCDD	64.8	13 - 199
	13C-2,3,7,8-TCDF	86.1	22 - 152
	13C-1,2,3,7,8-PeCDF	88.3	21 - 192
	13C-2,3,4,7,8-PeCDF	84.0	13 - 328
	13C-1,2,3,4,7,8-HxCDF	86.9	19 - 202
	13C-1,2,3,6,7,8-HxCDF	84.9	21 - 159
	13C-2,3,4,6,7,8-HxCDF	80.3	22 - 176
	13C-1,2,3,7,8,9-HxCDF	85.5	17 - 205
	13C-1,2,3,4,6,7,8-HpCDF	88.0	21 - 158
	13C-1,2,3,4,7,8,9-HpCDF	84.1	20 - 186
	13C-OCDF	72.5	13 - 199
CRS	37Cl-2,3,7,8-TCDD	93.7	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: AS-CB-02-20150120-S

EPA Method 1613B

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 11:00

Sample Data
Matrix: Sediment
Sample Size: 25.9 g
% Solids: 39.0

Laboratory Data
Lab Sample: 1500108-01 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0101 Date Extracted: 27-Jan-2015 11:06
Date Analyzed : 03-Feb-15 10:13 Column: ZB-5MS Analyst: DMS
05-Feb-15 16:57 Column: DB-225 Analyst: CVG

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
2,3,7,8-TCDD	0.664	0.494			0.0778	
1,2,3,7,8-PeCDD	3.57	2.47			0.230	
1,2,3,4,7,8-HxCDD	5.50	2.47			0.231	
1,2,3,6,7,8-HxCDD	33.5	2.47			0.126	
1,2,3,7,8,9-HxCDD	22.5	2.47			0.173	
1,2,3,4,6,7,8-HpCDD	417	2.47			0.263	
OCDD	2540	4.94			0.167	
2,3,7,8-TCDF	4.08	0.494			0.0289	
1,2,3,7,8-PeCDF	2.69	2.47			0.254	
2,3,4,7,8-PeCDF	5.96	2.47			0.211	
1,2,3,4,7,8-HxCDF	6.86	2.47			0.154	
1,2,3,6,7,8-HxCDF	5.31	2.47			0.195	
2,3,4,6,7,8-HxCDF	7.27	2.47			0.0805	
1,2,3,7,8,9-HxCDF	1.85	2.47			0.195	J
1,2,3,4,6,7,8-HpCDF	63.7	2.47			0.230	
1,2,3,4,7,8,9-HpCDF	4.31	2.47			0.211	
OCDF	141	4.94			0.470	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-2,3,7,8-TCDD	80.9	25 - 164	
	13C-1,2,3,7,8-PeCDD	76.6	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	80.5	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	83.8	28 - 130	
	13C-1,2,3,7,8,9-HxCDD	79.7	32 - 141	
	13C-1,2,3,4,6,7,8-HpCDD	95.2	23 - 140	
	13C-OCDD	74.0	17 - 157	
	13C-2,3,7,8-TCDF	83.8	24 - 169	
	13C-1,2,3,7,8-PeCDF	78.9	24 - 185	
	13C-2,3,4,7,8-PeCDF	77.6	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	84.0	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	82.2	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	76.8	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	83.7	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	82.5	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	84.1	26 - 138	
	13C-OCDF	71.7	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	88.7	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin	20.4

TOTALS

Total TCDD	31.1			32.7		
Total PeCDD	45.0					
Total HxCDD	252					
Total HpCDD	888					
Total TCDF	90.4			92.1		
Total PeCDF	119					
Total HxCDF	118					
Total HpCDF	174					

DL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
RL - Reporting limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: AS-CB-05-20150120-S

EPA Method 1613B

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 12:45

Sample Data
Matrix: Sediment
Sample Size: 27.4 g
% Solids: 36.6

Laboratory Data
Lab Sample: 1500108-02 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0101 Date Extracted: 27-Jan-2015 11:06
Date Analyzed : 03-Feb-15 11:01 Column: ZB-5MS Analyst: DMS
05-Feb-15 17:29 Column: DB-225 Analyst: CVG

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
2,3,7,8-TCDD	ND	0.498		1.17	0.0778	
1,2,3,7,8-PeCDD	7.30	2.49			0.230	
1,2,3,4,7,8-HxCDD	11.8	2.49			0.231	
1,2,3,6,7,8-HxCDD	27.5	2.49			0.126	
1,2,3,7,8,9-HxCDD	21.9	2.49			0.173	
1,2,3,4,6,7,8-HpCDD	521	2.49			0.263	
OCDD	3830	4.98			0.167	
2,3,7,8-TCDF	7.10	0.498			0.0289	
1,2,3,7,8-PeCDF	4.83	2.49			0.254	
2,3,4,7,8-PeCDF	8.15	2.49			0.211	
1,2,3,4,7,8-HxCDF	11.4	2.49			0.154	
1,2,3,6,7,8-HxCDF	9.45	2.49			0.195	
2,3,4,6,7,8-HxCDF	13.2	2.49			0.0805	
1,2,3,7,8,9-HxCDF	3.16	2.49			0.195	
1,2,3,4,6,7,8-HpCDF	116	2.49			0.230	
1,2,3,4,7,8,9-HpCDF	7.81	2.49			0.211	
OCDF	242	4.98			0.470	
TOTALS						
Total TCDD	51.8			53.6		
Total PeCDD	89.5					
Total HxCDD	287					
Total HpCDD	1160					
Total TCDF	147					
Total PeCDF	172			174		
Total HxCDF	206			207		
Total HpCDF	295					

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-2,3,7,8-TCDD	85.6	25 - 164	
	13C-1,2,3,7,8-PeCDD	78.3	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	81.6	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	83.4	28 - 130	
	13C-1,2,3,7,8,9-HxCDD	84.8	32 - 141	
	13C-1,2,3,4,6,7,8-HpCDD	92.2	23 - 140	
	13C-OCDD	74.2	17 - 157	
	13C-2,3,7,8-TCDF	86.5	24 - 169	
	13C-1,2,3,7,8-PeCDF	86.1	24 - 185	
	13C-2,3,4,7,8-PeCDF	81.3	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	83.0	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	78.4	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	78.1	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	82.1	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	82.6	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	82.7	26 - 138	
	13C-OCDF	70.4	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	92.3	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin 28.1

DL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
RL - Reporting limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: AS-CB-UNR-20150120-S

EPA Method 1613B

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 14:30

Sample Data
Matrix: Sediment
Sample Size: 15.9 g
% Solids: 63.0

Laboratory Data
Lab Sample: 1500108-03 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0101 Date Extracted: 27-Jan-2015 11:06
Date Analyzed : 03-Feb-15 11:49 Column: ZB-5MS Analyst: DMS
05-Feb-15 18:02 Column: DB-225 Analyst: CVG

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
2,3,7,8-TCDD	0.478	0.498			0.0778	J
1,2,3,7,8-PeCDD	2.59	2.49			0.230	
1,2,3,4,7,8-HxCDD	3.83	2.49			0.231	
1,2,3,6,7,8-HxCDD	11.9	2.49			0.126	
1,2,3,7,8,9-HxCDD	7.73	2.49			0.173	
1,2,3,4,6,7,8-HpCDD	235	2.49			0.263	
OCDD	2270	4.98			0.167	
2,3,7,8-TCDF	4.52	0.498			0.0289	
1,2,3,7,8-PeCDF	3.10	2.49			0.254	
2,3,4,7,8-PeCDF	4.88	2.49			0.211	
1,2,3,4,7,8-HxCDF	9.53	2.49			0.154	
1,2,3,6,7,8-HxCDF	6.02	2.49			0.195	
2,3,4,6,7,8-HxCDF	9.71	2.49			0.0805	
1,2,3,7,8,9-HxCDF	2.17	2.49			0.195	J
1,2,3,4,6,7,8-HpCDF	72.8	2.49			0.230	
1,2,3,4,7,8,9-HpCDF	5.04	2.49			0.211	
OCDF	189	4.98			0.470	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-2,3,7,8-TCDD	90.1	25 - 164	
	13C-1,2,3,7,8-PeCDD	81.7	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	87.0	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	86.8	28 - 130	
	13C-1,2,3,7,8,9-HxCDD	86.0	32 - 141	
	13C-1,2,3,4,6,7,8-HpCDD	94.5	23 - 140	
	13C-OCDD	69.8	17 - 157	
	13C-2,3,7,8-TCDF	88.7	24 - 169	
	13C-1,2,3,7,8-PeCDF	92.7	24 - 185	
	13C-2,3,4,7,8-PeCDF	83.4	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	85.6	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	82.4	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	77.2	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	83.6	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	83.2	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	83.4	26 - 138	
	13C-OCDF	68.5	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	94.5	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin	14.0

TOTALS

Total TCDD	22.5			23.5		
Total PeCDD	35.4					
Total HxCDD	105					
Total HpCDD	505					
Total TCDF	103					
Total PeCDF	181					
Total HxCDF	164					
Total HpCDF	230					

DL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
RL - Reporting limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: Method Blank

EPA Method 1613B

Matrix: Aqueous
Sample Size: 1.00 L

QC Batch: B5A0110
Date Extracted: 29-Jan-2015 8:12

Lab Sample: B5A0110-BLK1
Date Analyzed : 31-Jan-15 00:37 Column: ZB-5MS Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
2,3,7,8-TCDD	ND	5.00	0.857		0.943	
1,2,3,7,8-PeCDD	ND	25.0	0.692		4.51	
1,2,3,4,7,8-HxCDD	ND	25.0	1.21		2.21	
1,2,3,6,7,8-HxCDD	ND	25.0	1.19		1.93	
1,2,3,7,8,9-HxCDD	ND	25.0	1.22		2.02	
1,2,3,4,6,7,8-HpCDD	ND	25.0	1.23		2.98	
OCDD	ND	50.0	2.84		3.57	
2,3,7,8-TCDF	ND	5.00	0.643		0.984	
1,2,3,7,8-PeCDF	ND	25.0	0.766		2.50	
2,3,4,7,8-PeCDF	ND	25.0	0.665		1.73	
1,2,3,4,7,8-HxCDF	ND	25.0	0.421		1.36	
1,2,3,6,7,8-HxCDF	ND	25.0	0.484		1.56	
2,3,4,6,7,8-HxCDF	ND	25.0	0.497		2.05	
1,2,3,7,8,9-HxCDF	ND	25.0	0.618		1.34	
1,2,3,4,6,7,8-HpCDF	ND	25.0	0.516		1.46	
1,2,3,4,7,8,9-HpCDF	ND	25.0	0.478		1.75	
OCDF	ND	50.0	0.926		2.98	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-2,3,7,8-TCDD	80.1	25 - 164	
	13C-1,2,3,7,8-PeCDD	72.5	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	76.9	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	76.8	28 - 130	
	13C-1,2,3,7,8,9-HxCDD	74.4	32 - 141	
	13C-1,2,3,4,6,7,8-HpCDD	76.8	23 - 140	
	13C-OCDD	56.3	17 - 157	
	13C-2,3,7,8-TCDF	78.4	24 - 169	
	13C-1,2,3,7,8-PeCDF	73.7	24 - 185	
	13C-2,3,4,7,8-PeCDF	75.2	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	76.7	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	73.4	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	72.9	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	77.2	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	70.9	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	74.5	26 - 138	
	13C-OCDF	58.0	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	91.8	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin	0.00

TOTALS

Total TCDD	ND	0.857
Total PeCDD	ND	0.692
Total HxCDD	ND	1.27
Total HpCDD	ND	1.23
Total TCDF	ND	0.644
Total PeCDF	ND	0.753
Total HxCDF	ND	0.525
Total HpCDF	ND	0.528

DL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
RL - Reporting limit
LCL-UCL- Lower control limit - upper control limit
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: OPR **EPA Method 1613B**

Matrix:	Aqueous	QC Batch:	B5A0110	Lab Sample:	B5A0110-BS1
Sample Size:	1.00 L	Date Extracted:	29-Jan-2015 8:12	Date Analyzed:	30-Jan-15 23:00 Column: ZB-5MS Analyst: DMS

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits		Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	162	200	80.8	67 - 158	IS	13C-2,3,7,8-TCDD	74.3	20 - 175
1,2,3,7,8-PeCDD	878	1000	87.8	70 - 142		13C-1,2,3,7,8-PeCDD	66.7	21 - 227
1,2,3,4,7,8-HxCDD	939	1000	93.9	70 - 164		13C-1,2,3,4,7,8-HxCDD	74.7	21 - 193
1,2,3,6,7,8-HxCDD	967	1000	96.7	76 - 134		13C-1,2,3,6,7,8-HxCDD	75.1	25 - 163
1,2,3,7,8,9-HxCDD	943	1000	94.3	64 - 162		13C-1,2,3,7,8,9-HxCDD	74.4	21 - 193
1,2,3,4,6,7,8-HpCDD	925	1000	92.5	70 - 140		13C-1,2,3,4,6,7,8-HpCDD	76.9	26 - 166
OCDD	1910	2000	95.3	78 - 144		13C-OCDD	56.7	13 - 199
2,3,7,8-TCDF	170	200	84.8	75 - 158		13C-2,3,7,8-TCDF	77.8	22 - 152
1,2,3,7,8-PeCDF	894	1000	89.4	80 - 134		13C-1,2,3,7,8-PeCDF	66.3	21 - 192
2,3,4,7,8-PeCDF	908	1000	90.8	68 - 160		13C-2,3,4,7,8-PeCDF	73.0	13 - 328
1,2,3,4,7,8-HxCDF	964	1000	96.4	72 - 134		13C-1,2,3,4,7,8-HxCDF	72.7	19 - 202
1,2,3,6,7,8-HxCDF	957	1000	95.7	84 - 130		13C-1,2,3,6,7,8-HxCDF	72.2	21 - 159
2,3,4,6,7,8-HxCDF	975	1000	97.5	70 - 156		13C-2,3,4,6,7,8-HxCDF	70.8	22 - 176
1,2,3,7,8,9-HxCDF	948	1000	94.8	78 - 130		13C-1,2,3,7,8,9-HxCDF	73.0	17 - 205
1,2,3,4,6,7,8-HpCDF	966	1000	96.6	82 - 122		13C-1,2,3,4,6,7,8-HpCDF	72.8	21 - 158
1,2,3,4,7,8,9-HpCDF	987	1000	98.7	78 - 138		13C-1,2,3,4,7,8,9-HpCDF	71.5	20 - 186
OCDF	1890	2000	94.5	63 - 170		13C-OCDF	57.3	13 - 199
					CRS	37Cl-2,3,7,8-TCDD	99.6	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: AS-CB-UNR-20150120-W

EPA Method 1613B

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 14:00

Sample Data
Matrix: Effluent
Sample Size: 1.01 L

Laboratory Data
Lab Sample: 1500108-04 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0110 Date Extracted: 29-Jan-2015 8:12
Date Analyzed : 31-Jan-15 07:51 Column: ZB-5MS Analyst: WJL

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
2,3,7,8-TCDD	ND	4.97	1.09		0.943	
1,2,3,7,8-PeCDD	2.22	24.8			4.51	J
1,2,3,4,7,8-HxCDD	3.43	24.8			2.21	J
1,2,3,6,7,8-HxCDD	10.3	24.8			1.93	J
1,2,3,7,8,9-HxCDD	7.53	24.8			2.02	J
1,2,3,4,6,7,8-HpCDD	224	24.8			2.98	
OCDD	2140	49.7			3.57	
2,3,7,8-TCDF	3.73	4.97			0.984	J
1,2,3,7,8-PeCDF	3.57	24.8			2.50	J
2,3,4,7,8-PeCDF	3.88	24.8			1.73	J
1,2,3,4,7,8-HxCDF	11.3	24.8			1.36	J
1,2,3,6,7,8-HxCDF	ND	24.8		5.81	1.56	
2,3,4,6,7,8-HxCDF	9.10	24.8			2.05	J
1,2,3,7,8,9-HxCDF	2.07	24.8			1.34	J
1,2,3,4,6,7,8-HpCDF	70.6	24.8			1.46	
1,2,3,4,7,8,9-HpCDF	5.67	24.8			1.75	J
OCDF	192	49.7			2.98	

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-2,3,7,8-TCDD	77.1	25 - 164	
	13C-1,2,3,7,8-PeCDD	63.2	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	67.0	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	66.0	28 - 130	
	13C-1,2,3,7,8,9-HxCDD	67.6	32 - 141	
	13C-1,2,3,4,6,7,8-HpCDD	67.7	23 - 140	
	13C-OCDD	50.6	17 - 157	
	13C-2,3,7,8-TCDF	79.3	24 - 169	
	13C-1,2,3,7,8-PeCDF	70.7	24 - 185	
	13C-2,3,4,7,8-PeCDF	69.0	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	64.6	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	63.5	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	60.4	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	65.5	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	64.7	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	62.8	26 - 138	
	13C-OCDF	51.1	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	101	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin	14.3

TOTALS				
Total TCDD	5.95		8.90	
Total PeCDD	17.7		24.9	
Total HxCDD	88.7		90.7	
Total HpCDD	482			
Total TCDF	50.4		67.9	
Total PeCDF	128		135	
Total HxCDF	143		149	
Total HpCDF	217			

DL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
RL - Reporting limit
LCL-UCL- Lower control limit - upper control limit
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: Method Blank

EPA Method 1668C

Matrix: Solid
Sample Size: 2.00 g

QC Batch: B5A0115
Date Extracted: 29-Jan-2015 10:19

Lab Sample: B5A0115-BLK1
Date Analyzed: 05-Feb-15 12:12 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	ND	12.5	8.17		0.320	
PCB-2	ND	12.5	7.98		0.240	
PCB-3	ND	12.5	6.63		0.323	
PCB-4/10	ND	25.0	31.3		1.14	
PCB-5/8	ND	25.0	26.7		1.76	
PCB-6	ND	12.5	23.6		1.00	
PCB-7/9	ND	25.0	25.4		1.34	
PCB-11	ND	12.5	26.5		3.48	
PCB-12/13	ND	25.0	24.2		1.37	
PCB-14	ND	12.5	26.0		0.337	
PCB-15	ND	12.5	22.5		0.634	
PCB-16/32	ND	25.0		7.46	0.430	
PCB-17	ND	12.5	3.60		0.658	
PCB-18	ND	12.5	4.25		0.696	
PCB-19	ND	12.5	4.85		0.612	
PCB-20/21/33	4.93	37.5			2.47	J
PCB-22	ND	12.5	2.77		0.964	
PCB-23	ND	12.5	2.62		0.543	
PCB-24/27	ND	25.0	2.79		0.742	
PCB-25	ND	12.5	2.65		0.768	
PCB-26	ND	12.5	2.77		0.766	
PCB-28	ND	12.5		3.44	1.12	
PCB-29	ND	12.5	3.10		0.949	
PCB-30	ND	12.5	2.95		0.355	
PCB-31	ND	12.5	2.61		0.809	
PCB-34	ND	12.5	2.95		1.57	
PCB-35	ND	12.5	2.85		0.565	
PCB-36	ND	12.5	3.08		0.406	
PCB-37	ND	12.5	2.86		0.389	
PCB-38	ND	12.5	2.93		0.528	
PCB-39	ND	12.5	3.15		0.461	
PCB-40	ND	12.5	6.97		0.927	
PCB-41/64/71/72	ND	50.0	4.05		1.70	
PCB-42/59	ND	25.0	4.30		0.899	
PCB-43/49	ND	25.0	5.33		0.879	
PCB-44	ND	12.5	5.68		0.745	
PCB-45	ND	12.5	6.13		0.402	
PCB-46	ND	12.5	6.27		0.537	
PCB-47	ND	12.5	4.62		2.19	
PCB-48/75	ND	25.0	3.98		0.983	
PCB-50	ND	12.5	5.11		0.603	
PCB-51	ND	12.5	5.35		0.789	
PCB-52/69	ND	25.0	4.13		0.722	
PCB-53	ND	12.5	4.98		0.331	
PCB-54	ND	12.5	4.08		0.275	
PCB-55	ND	12.5	3.56		0.416	
PCB-56/60	ND	25.0	3.67		0.825	
PCB-57	ND	12.5	3.92		0.354	
PCB-58	ND	12.5	4.14		0.589	
PCB-61/70	ND	25.0	4.03		1.20	
PCB-62	ND	12.5	4.00		0.597	
PCB-63	ND	12.5	4.03		0.524	
PCB-65	ND	12.5	3.99		0.842	
PCB-66/76	ND	25.0	3.67		1.31	
PCB-67	ND	12.5	3.47		0.486	
PCB-68	ND	12.5	3.63		0.658	
PCB-73	ND	12.5	3.92		0.454	
PCB-74	ND	12.5	3.09		0.781	
PCB-77	ND	12.5	3.76		0.748	
PCB-78	ND	12.5	3.37		0.385	
PCB-79	ND	12.5	3.43		0.633	
PCB-80	ND	12.5	3.11		0.336	
PCB-81	ND	12.5	3.21		0.674	
PCB-82	ND	12.5	6.52		0.981	
PCB-83	ND	12.5	4.26		0.440	
PCB-84/92	ND	25.0	5.49		1.01	
PCB-85/116	ND	25.0	4.96		1.64	
PCB-86	ND	12.5	7.67		1.79	

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specifc estimated detection limit
MDL - Method detection limit

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: Method Blank — EPA Method 1668C

Matrix: Solid
Sample Size: 2.00 g

QC Batch: B5A0115
Date Extracted: 29-Jan-2015 10:19

Lab Sample: B5A0115-BLK1
Date Analyzed: 05-Feb-15 12:12 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-87/117/125	ND	37.5	4.17		0.880	
PCB-88/91	ND	25.0	5.47		1.25	
PCB-89	ND	12.5	5.08		1.22	
PCB-90/101	ND	25.0	5.22		1.19	
PCB-93	ND	12.5	7.24		2.53	
PCB-94	ND	12.5	5.78		0.874	
PCB-95/98/102	ND	37.5	4.99		1.38	
PCB-96	ND	12.5	4.10		0.588	
PCB-97	ND	12.5	5.47		0.675	
PCB-99	ND	12.5	4.30		0.474	
PCB-100	ND	12.5	4.97		0.511	
PCB-103	ND	12.5	4.87		0.428	
PCB-104	ND	12.5	3.95		0.876	
PCB-105	ND	12.5	4.78		0.462	
PCB-106/118	ND	25.0	3.97		0.728	
PCB-107/109	ND	25.0	3.74		0.631	
PCB-108/112	ND	25.0	5.05		0.844	
PCB-110	ND	12.5	4.15		0.555	
PCB-111/115	ND	25.0	3.96		1.24	
PCB-113	ND	12.5	4.07		0.495	
PCB-114	ND	12.5	4.78		0.418	
PCB-119	ND	12.5	4.22		0.383	
PCB-120	ND	12.5	3.85		0.622	
PCB-121	ND	12.5	3.78		0.978	
PCB-122	ND	12.5	5.53		0.619	
PCB-123	ND	12.5	4.24		0.494	
PCB-124	ND	12.5	3.37		0.813	
PCB-126	ND	12.5	5.45		0.543	
PCB-127	ND	12.5	4.21		0.326	
PCB-128/162	ND	25.0	5.51		1.08	
PCB-129	ND	12.5	7.58		0.567	
PCB-130	ND	12.5	6.88		0.798	
PCB-131	ND	12.5	6.74		0.731	
PCB-132/161	ND	25.0	5.54		1.05	
PCB-133/142	ND	25.0	7.47		1.04	
PCB-134/143	ND	25.0	6.68		1.05	
PCB-135	ND	12.5	7.44		1.47	
PCB-136	ND	12.5	5.01		0.776	
PCB-137	ND	12.5	6.25		0.541	
PCB-138/163/164	ND	37.5	5.00		0.809	
PCB-139/149	ND	25.0	7.74		1.49	
PCB-140	ND	12.5	8.17		1.20	
PCB-141	ND	12.5	6.12		0.678	
PCB-144	ND	12.5	7.74		1.38	
PCB-145	ND	12.5	4.91		1.05	
PCB-146/165	ND	25.0	4.91		0.792	
PCB-147	ND	12.5	7.19		5.26	
PCB-148	ND	12.5	7.92		1.45	
PCB-150	ND	12.5	5.91		0.801	
PCB-151	ND	12.5	7.90		1.16	
PCB-152	ND	12.5	5.29		0.744	
PCB-153	ND	12.5	4.90		0.484	
PCB-154	ND	12.5	6.87		0.837	
PCB-155	ND	12.5	5.28		0.767	
PCB-156	ND	12.5	4.76		0.534	
PCB-157	ND	12.5	4.64		0.485	
PCB-158/160	ND	25.0	4.82		0.915	
PCB-159	ND	12.5	5.19		0.578	
PCB-166	ND	12.5	4.87		0.425	
PCB-167	ND	12.5	4.18		0.653	
PCB-168	ND	12.5	4.22		0.502	
PCB-169	ND	12.5	4.71		0.767	
PCB-170	ND	12.5	4.69		0.758	
PCB-171	ND	12.5	4.19		0.372	
PCB-172	ND	12.5	4.06		0.857	
PCB-173	ND	12.5	5.98		0.507	
PCB-174	ND	12.5	4.82		0.797	
PCB-175	ND	12.5	4.73		0.679	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: Method Blank — EPA Method 1668C

Matrix:	Solid	QC Batch:	B5A0115	Lab Sample:	B5A0115-BLK1
Sample Size:	2.00 g	Date Extracted:	29-Jan-2015 10:19	Date Analyzed:	05-Feb-15 12:12 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-176	ND	12.5	3.25		0.729	
PCB-177	ND	12.5	5.29		0.404	
PCB-178	ND	12.5	4.63		0.610	
PCB-179	ND	12.5	3.68		0.418	
PCB-180	ND	12.5	4.94		0.420	
PCB-181	ND	12.5	4.81		1.26	
PCB-182/187	ND	25.0	3.83		1.33	
PCB-183	ND	12.5	3.97		0.638	
PCB-184	ND	12.5	2.94		0.597	
PCB-185	ND	12.5	3.68		0.557	
PCB-186	ND	12.5	3.30		0.421	
PCB-188	ND	12.5	3.03		0.759	
PCB-189	ND	12.5	3.82		0.483	
PCB-190	ND	12.5	3.39		0.686	
PCB-191	ND	12.5	3.92		0.447	
PCB-192	ND	12.5	3.81		0.528	
PCB-193	ND	12.5	3.87		0.836	
PCB-194	ND	12.5	4.25		0.645	
PCB-195	ND	12.5	4.20		0.722	
PCB-196/203	ND	25.0	9.19		0.983	
PCB-197	ND	12.5	6.86		0.794	
PCB-198	ND	12.5	9.75		0.792	
PCB-199	ND	12.5	9.23		0.615	
PCB-200	ND	12.5	6.93		0.795	
PCB-201	ND	12.5	6.40		0.317	
PCB-202	ND	12.5	6.80		0.759	
PCB-204	ND	12.5	6.47		0.543	
PCB-205	ND	12.5	3.34		0.471	
PCB-206	ND	12.5	5.23		0.852	
PCB-207	ND	12.5	2.51		0.402	
PCB-208	ND	12.5	2.93		0.441	
PCB-209	ND	12.5	4.66		1.10	
Total monoCB	ND	12.5	8.17			
Total diCB	ND	12.5	31.3			
Total triCB	4.93	12.5		15.8		
Total tetraCB	ND	12.5	6.97			
Total pentaCB	ND	12.5	7.67			
Total hexaCB	ND	12.5	8.17			
Total heptaCB	ND	12.5	5.98			
Total octaCB	ND	12.5	9.75			
Total nonaCB	ND	12.5	5.23			
DecaCB	ND	12.5	4.66			
Total PCB	4.93	12.5				

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: Method Blank

EPA Method 1668C

Matrix: Solid
Sample Size: 2.00 g

QC Batch: B5A0115
Date Extracted: 29-Jan-2015 10:19

Lab Sample: B5A0115-BLK1
Date Analyzed: 05-Feb-15 12:12 Column: ZB-1 Analyst: DMS

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	70.0	5 - 145	
	13C-PCB-3	73.9	5 - 145	
	13C-PCB-4	68.1	5 - 145	
	13C-PCB-11	78.2	5 - 145	
	13C-PCB-9	72.2	5 - 145	
	13C-PCB-19	73.8	5 - 145	
	13C-PCB-28	73.0	5 - 145	
	13C-PCB-32	77.2	5 - 145	
	13C-PCB-37	89.2	5 - 145	
	13C-PCB-47	80.8	5 - 145	
	13C-PCB-52	79.6	5 - 145	
	13C-PCB-54	70.0	5 - 145	
	13C-PCB-70	86.9	5 - 145	
	13C-PCB-77	88.0	10 - 145	
	13C-PCB-80	87.9	10 - 145	
	13C-PCB-81	88.7	10 - 145	
	13C-PCB-95	87.6	10 - 145	
	13C-PCB-97	89.6	10 - 145	
	13C-PCB-101	89.6	10 - 145	
	13C-PCB-104	84.3	10 - 145	
	13C-PCB-105	87.0	10 - 145	
	13C-PCB-114	88.3	10 - 145	
	13C-PCB-118	90.6	10 - 145	
	13C-PCB-123	92.5	10 - 145	
	13C-PCB-126	87.1	10 - 145	
	13C-PCB-127	87.1	10 - 145	
	13C-PCB-138	88.5	10 - 145	
	13C-PCB-141	87.0	10 - 145	
	13C-PCB-153	88.9	10 - 145	
	13C-PCB-155	74.9	10 - 145	
	13C-PCB-156	88.1	10 - 145	
	13C-PCB-157	87.5	10 - 145	
	13C-PCB-159	89.2	10 - 145	
	13C-PCB-167	89.2	10 - 145	
	13C-PCB-169	85.4	10 - 145	
	13C-PCB-170	81.0	10 - 145	
	13C-PCB-180	78.2	10 - 145	
	13C-PCB-188	83.3	10 - 145	
	13C-PCB-189	77.8	10 - 145	
	13C-PCB-194	89.0	10 - 145	
	13C-PCB-202	72.5	10 - 145	
	13C-PCB-206	88.5	10 - 145	
	13C-PCB-208	79.7	10 - 145	
	13C-PCB-209	94.0	10 - 145	
CRS	13C-PCB-79	91.5	10 - 145	
	13C-PCB-178	86.4	10 - 145	

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specifc estimated detection limit
MDL - Method detection limit

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: OPR

EPA Method 1668C

Matrix: Solid
Sample Size: 2.00 g

QC Batch: B5A0115
Date Extracted: 29-Jan-2015 10:19

Lab Sample: B5A0115-BS1
Date Analyzed: 05-Feb-15 10:04 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits
PCB-1	4660	5000	93.1	60 - 135
PCB-3	4630	5000	92.6	60 - 135
PCB-4/10	21000	20000	105	60 - 135
PCB-15	10400	10000	104	60 - 135
PCB-19	5030	5000	101	60 - 135
PCB-37	5450	5000	109	60 - 135
PCB-54	5100	5000	102	60 - 135
PCB-77	5160	5000	103	60 - 135
PCB-81	5020	5000	100	60 - 135
PCB-104	5360	5000	107	60 - 135
PCB-105	5370	5000	107	60 - 135
PCB-106/118	10500	10000	105	60 - 135
PCB-114	5250	5000	105	60 - 135
PCB-123	5340	5000	107	60 - 135
PCB-126	5530	5000	111	60 - 135
PCB-155	5270	5000	105	60 - 135
PCB-156	4940	5000	98.9	60 - 135
PCB-157	4780	5000	95.5	60 - 135
PCB-167	4920	5000	98.3	60 - 135
PCB-169	4650	5000	93.0	60 - 135
PCB-188	5010	5000	100	60 - 135
PCB-189	4970	5000	99.4	60 - 135
PCB-202	5000	5000	100	60 - 135
PCB-205	5040	5000	101	60 - 135
PCB-206	5170	5000	103	60 - 135
PCB-208	5190	5000	104	60 - 135
PCB-209	5160	5000	103	60 - 135

	Labeled Standard	%R	LCL-UCL
IS	13C-PCB-1	70.1	15 - 145
IS	13C-PCB-3	70.9	15 - 145
IS	13C-PCB-4	65.9	15 - 145
IS	13C-PCB-11	74.7	15 - 145
IS	13C-PCB-9	68.7	15 - 145
IS	13C-PCB-19	68.8	15 - 145
IS	13C-PCB-28	73.3	15 - 145
IS	13C-PCB-32	74.7	15 - 145
IS	13C-PCB-37	86.0	15 - 145
IS	13C-PCB-47	76.9	15 - 145
IS	13C-PCB-52	75.5	15 - 145
IS	13C-PCB-54	67.6	15 - 145
IS	13C-PCB-70	80.8	15 - 145
IS	13C-PCB-77	84.6	40 - 145
IS	13C-PCB-80	82.5	40 - 145
IS	13C-PCB-81	84.8	40 - 145
IS	13C-PCB-95	82.4	40 - 145
IS	13C-PCB-97	86.3	40 - 145
IS	13C-PCB-101	85.1	40 - 145
IS	13C-PCB-104	79.7	40 - 145
IS	13C-PCB-105	81.1	40 - 145
IS	13C-PCB-114	85.4	40 - 145
IS	13C-PCB-118	87.9	40 - 145
IS	13C-PCB-123	89.7	40 - 145
IS	13C-PCB-126	82.8	40 - 145
IS	13C-PCB-127	82.4	40 - 145
IS	13C-PCB-138	86.1	40 - 145
IS	13C-PCB-141	84.8	40 - 145
IS	13C-PCB-153	87.1	40 - 145
IS	13C-PCB-155	71.0	40 - 145
IS	13C-PCB-156	84.8	40 - 145
IS	13C-PCB-157	84.5	40 - 145
IS	13C-PCB-159	85.3	40 - 145
IS	13C-PCB-167	85.6	40 - 145
IS	13C-PCB-169	85.8	40 - 145
IS	13C-PCB-170	80.1	40 - 145
IS	13C-PCB-180	79.4	40 - 145
IS	13C-PCB-188	83.0	40 - 145
IS	13C-PCB-189	80.0	40 - 145
IS	13C-PCB-194	85.2	40 - 145

Sample ID: OPR

EPA Method 1668C

Matrix: Solid
Sample Size: 2.00 g

QC Batch: B5A0115
Date Extracted: 29-Jan-2015 10:19

Lab Sample: B5A0115-BS1
Date Analyzed: 05-Feb-15 10:04 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits

	Labeled Standard	%R	LCL-UCL
IS	13C-PCB-202	72.2	40 - 145
IS	13C-PCB-206	87.1	40 - 145
IS	13C-PCB-208	78.7	40 - 145
IS	13C-PCB-209	94.0	40 - 145
CRS	13C-PCB-79	87.8	40 - 145
CRS	13C-PCB-178	82.0	40 - 145

LCL-UCL - Lower control limit - upper control limit

Sample ID: AS-CB-02-20150120-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 11:00

Sample Data
Matrix: Sediment
Sample Size: 5.16 g
% Solids: 39.0

Laboratory Data
Lab Sample: 1500108-01 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0115 Date Extracted: 29-Jan-2015 10:19
Date Analyzed : 05-Feb-15 16:28 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	156	124			0.320	D
PCB-2	59.1	124			0.240	J, D
PCB-3	111	124			0.323	J, D
PCB-4/10	467	248			1.14	D
PCB-5/8	1430	248			1.76	D
PCB-6	502	124			1.00	D
PCB-7/9	178	248			1.34	J, D
PCB-11	6120	124			3.48	D
PCB-12/13	228	248			1.37	J, D
PCB-14	ND	124	134		0.337	D
PCB-15	1260	124			0.634	D
PCB-16/32	2020	248			0.430	D
PCB-17	1030	124			0.658	D
PCB-18	3060	124			0.696	D
PCB-19	500	124			0.612	D
PCB-20/21/33	2030	372			2.47	B, D
PCB-22	1150	124			0.964	D
PCB-23	ND	124	42.1		0.543	D
PCB-24/27	608	248			0.742	D
PCB-25	1040	124			0.768	D
PCB-26	2150	124			0.766	D
PCB-28	2600	124			1.12	D
PCB-29	ND	124	49.9		0.949	D
PCB-30	ND	124	12.6		0.355	D
PCB-31	2990	124			0.809	D
PCB-34	ND	124		41.8	1.57	D
PCB-35	195	124			0.565	D
PCB-36	ND	124	52.2		0.406	D
PCB-37	1530	124			0.389	D
PCB-38	ND	124	49.7		0.528	D
PCB-39	ND	124	53.5		0.461	D
PCB-40	1070	124			0.927	D
PCB-41/64/71/72	5580	497			1.70	D
PCB-42/59	1830	248			0.899	D
PCB-43/49	7890	248			0.879	D
PCB-44	6820	124			0.745	D
PCB-45	945	124			0.402	D
PCB-46	549	124			0.537	D
PCB-47	2220	124			2.19	D
PCB-48/75	750	248			0.983	D
PCB-50	ND	124	38.3		0.603	D
PCB-51	777	124			0.789	D
PCB-52/69	13600	248			0.722	D
PCB-53	1980	124			0.331	D
PCB-54	ND	124		45.9	0.275	D
PCB-55	204	124			0.416	D
PCB-56/60	3060	248			0.825	D
PCB-57	95.6	124			0.354	J, D
PCB-58	37.3	124			0.589	J, D
PCB-61/70	9160	248			1.20	D
PCB-62	ND	124	33.8		0.597	D
PCB-63	205	124			0.524	D
PCB-65	ND	124	33.7		0.842	D
PCB-66/76	5130	248			1.31	D
PCB-67	ND	124		225	0.486	D
PCB-68	ND	124		123	0.658	D
PCB-73	ND	124		36.0	0.454	D
PCB-74	2130	124			0.781	D
PCB-77	869	124			0.748	D
PCB-78	ND	124	27.9		0.385	D
PCB-79	320	124			0.633	D
PCB-80	ND	124	27.8		0.336	D
PCB-81	132	124			0.674	D
PCB-82	2950	124			0.981	D
PCB-83	ND	124	72.7		0.440	D
PCB-84/92	12200	248			1.01	D
PCB-85/116	3450	248			1.64	D
PCB-86	ND	124	131		1.79	D
PCB-87/117/125	8650	372			0.880	D
PCB-88/91	3960	248			1.25	D

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: AS-CB-02-20150120-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 11:00

Sample Data
Matrix: Sediment
Sample Size: 5.16 g
% Solids: 39.0

Laboratory Data
Lab Sample: 1500108-01 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0115 Date Extracted: 29-Jan-2015 10:19
Date Analyzed : 05-Feb-15 16:28 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	204	124			1.22	D
PCB-90/101	32400	248			1.19	D
PCB-93	ND	124	136		2.53	D
PCB-94	147	124			0.874	D
PCB-95/98/102	24700	372			1.38	D
PCB-96	183	124			0.588	D
PCB-97	7390	124			0.675	D
PCB-99	9360	124			0.474	D
PCB-100	ND	124		197	0.511	D
PCB-103	333	124			0.428	D
PCB-104	ND	124	61.0		0.876	D
PCB-105	8450	124			0.462	D
PCB-106/118	22900	248			0.728	D
PCB-107/109	1480	248			0.631	D
PCB-108/112	1260	248			0.844	D
PCB-110	32100	124			0.555	D
PCB-111/115	308	248			1.24	D
PCB-113	109	124			0.495	J, D
PCB-114	499	124			0.418	D
PCB-119	805	124			0.383	D
PCB-120	154	124			0.622	D
PCB-121	ND	124	71.0		0.978	D
PCB-122	327	124			0.619	D
PCB-123	293	124			0.494	D
PCB-124	1070	124			0.813	D
PCB-126	318	124			0.543	D
PCB-127	ND	124	133		0.326	D
PCB-128/162	5810	248			1.08	D
PCB-129	2070	124			0.567	D
PCB-130	2520	124			0.798	D
PCB-131	ND	124	113		0.731	D
PCB-132/161	13600	248			1.05	D
PCB-133/142	1650	248			1.04	D
PCB-134/143	2440	248			1.05	D
PCB-135	7110	124			1.47	D

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-136	6350	124			0.776	D
PCB-137	1820	124			0.541	D
PCB-138/163/164	46900	372			0.809	D
PCB-139/149	47200	248			1.49	D
PCB-140	243	124			1.20	D
PCB-141	11400	124			0.678	D
PCB-144	2230	124			1.38	D
PCB-145	ND	124	74.9		1.05	D
PCB-146/165	6900	248			0.792	D
PCB-147	626	124			5.26	D
PCB-148	ND	124	121		1.45	D
PCB-150	144	124			0.801	D
PCB-151	14200	124			1.16	D
PCB-152	ND	124	80.7		0.744	D
PCB-153	45300	124			0.484	D
PCB-154	ND	124		591	0.837	D
PCB-155	ND	124	80.7		0.767	D
PCB-156	3790	124			0.534	D
PCB-157	717	124			0.485	D
PCB-158/160	5000	248			0.915	D
PCB-159	ND	124	88.0		0.578	D
PCB-166	106	124			0.425	J, D
PCB-167	1510	124			0.653	D
PCB-168	ND	124	70.6		0.502	D
PCB-169	ND	124	90.2		0.767	D
PCB-170	16800	124			0.758	D
PCB-171	4240	124			0.372	D
PCB-172	2610	124			0.857	D
PCB-173	454	124			0.507	D
PCB-174	20700	124			0.797	D
PCB-175	695	124			0.679	D
PCB-176	2320	124			0.729	D
PCB-177	12000	124			0.404	D
PCB-178	4010	124			0.610	D
PCB-179	8480	124			0.418	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: AS-CB-02-20150120-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 11:00

Sample Data
Matrix: Sediment
Sample Size: 5.16 g
% Solids: 39.0

Laboratory Data
Lab Sample: 1500108-01 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0115 Date Extracted: 29-Jan-2015 10:19
Date Analyzed : 05-Feb-15 16:28 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	45700	124			0.420	D
PCB-181	ND	124	44.6		1.26	D
PCB-182/187	20200	248			1.33	D
PCB-183	9380	124			0.638	D
PCB-184	ND	124	27.5		0.597	D
PCB-185	1880	124			0.557	D
PCB-186	ND	124	30.8		0.421	D
PCB-188	ND	124	28.3		0.759	D
PCB-189	645	124			0.483	D
PCB-190	3200	124			0.686	D
PCB-191	788	124			0.447	D
PCB-192	ND	124	35.3		0.528	D
PCB-193	2040	124			0.836	D
PCB-194	9130	124			0.645	D
PCB-195	3700	124			0.722	D
PCB-196/203	10100	248			0.983	D
PCB-197	306	124			0.794	D
PCB-198	423	124			0.792	D
PCB-199	9240	124			0.615	D
PCB-200	1120	124			0.795	D
PCB-201	1160	124			0.317	D
PCB-202	1820	124			0.759	D
PCB-204	ND	124	23.9		0.543	D
PCB-205	429	124			0.471	D
PCB-206	3360	124			0.852	D
PCB-207	344	124			0.402	D
PCB-208	859	124			0.441	D
PCB-209	460	124			1.10	D
Total monoCB	325	124				
Total diCB	10200	124				
Total triCB	20900	124				B
Total tetraCB	65300	124		65800		
Total pentaCB	176000	124				
Total hexaCB	230000	124				
Total heptaCB	156000	124				
Total octaCB	37400	124				
Total nonaCB	4570	124				
DecaCB	460	124				
Total PCB	701000	124				B

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: AS-CB-02-20150120-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 11:00

Sample Data
Matrix: Sediment
Sample Size: 5.16 g
% Solids: 39.0

Laboratory Data
Lab Sample: 1500108-01 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0115 Date Extracted: 29-Jan-2015 10:19
Date Analyzed : 05-Feb-15 16:28 Column: ZB-1 Analyst: DMS

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	92.1	5 -145	D
	13C-PCB-3	93.4	5 -145	D
	13C-PCB-4	87.3	5 -145	D
	13C-PCB-11	89.2	5 -145	D
	13C-PCB-9	88.7	5 -145	D
	13C-PCB-19	81.8	5 -145	D
	13C-PCB-28	95.5	5 -145	D
	13C-PCB-32	81.0	5 -145	D
	13C-PCB-37	97.0	5 -145	D
	13C-PCB-47	84.6	5 -145	D
	13C-PCB-52	86.2	5 -145	D
	13C-PCB-54	82.1	5 -145	D
	13C-PCB-70	89.5	5 -145	D
	13C-PCB-77	87.9	10 -145	D
	13C-PCB-80	88.6	10 -145	D
	13C-PCB-81	91.2	10 -145	D
	13C-PCB-95	86.4	10 -145	D
	13C-PCB-97	94.6	10 -145	D
	13C-PCB-101	91.0	10 -145	D
	13C-PCB-104	88.7	10 -145	D
	13C-PCB-105	86.3	10 -145	D
	13C-PCB-114	86.2	10 -145	D
	13C-PCB-118	88.7	10 -145	D
	13C-PCB-123	94.0	10 -145	D
	13C-PCB-126	84.2	10 -145	D
	13C-PCB-127	85.2	10 -145	D
	13C-PCB-138	88.7	10 -145	D
	13C-PCB-141	87.4	10 -145	D
	13C-PCB-153	88.4	10 -145	D
	13C-PCB-155	75.6	10 -145	D
	13C-PCB-156	83.8	10 -145	D
	13C-PCB-157	86.1	10 -145	D
	13C-PCB-159	89.0	10 -145	D
	13C-PCB-167	87.1	10 -145	D
	13C-PCB-169	80.6	10 -145	D
	13C-PCB-170	75.4	10 -145	D
	13C-PCB-180	74.6	10 -145	D
	13C-PCB-188	80.4	10 -145	D
	13C-PCB-189	65.0	10 -145	D
	13C-PCB-194	93.0	10 -145	D
	13C-PCB-202	69.6	10 -145	D
	13C-PCB-206	87.4	10 -145	D
	13C-PCB-208	83.5	10 -145	D
	13C-PCB-209	93.7	10 -145	D
CRS	13C-PCB-79	94.6	10 -145	D
	13C-PCB-178	85.1	10 -145	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: AS-CB-05-20150120-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 12:45

Sample Data
Matrix: Sediment
Sample Size: 5.56 g
% Solids: 36.6

Laboratory Data
Lab Sample: 1500108-02 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0115 Date Extracted: 29-Jan-2015 10:19
Date Analyzed : 05-Feb-15 17:32 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	144	123			0.320	D
PCB-2	89.2	123			0.240	J, D
PCB-3	122	123			0.323	J, D
PCB-4/10	536	246			1.14	D
PCB-5/8	1950	246			1.76	D
PCB-6	562	123			1.00	D
PCB-7/9	238	246			1.34	J, D
PCB-11	14800	123			3.48	D
PCB-12/13	ND	246		247	1.37	D
PCB-14	ND	123	245		0.337	D
PCB-15	1700	123			0.634	D
PCB-16/32	2800	246			0.430	D
PCB-17	1300	123			0.658	D
PCB-18	3950	123			0.696	D
PCB-19	495	123			0.612	D
PCB-20/21/33	3370	368			2.47	B, D
PCB-22	2140	123			0.964	D
PCB-23	ND	123	34.9		0.543	D
PCB-24/27	457	246			0.742	D
PCB-25	763	123			0.768	D
PCB-26	1520	123			0.766	D
PCB-28	3960	123			1.12	D
PCB-29	ND	123	41.3		0.949	D
PCB-30	ND	123	31.0		0.355	D
PCB-31	4410	123			0.809	D
PCB-34	ND	123	39.3		1.57	D
PCB-35	352	123			0.565	D
PCB-36	ND	123	42.2		0.406	D
PCB-37	2780	123			0.389	D
PCB-38	ND	123	40.2		0.528	D
PCB-39	ND	123	43.2		0.461	D
PCB-40	1260	123			0.927	D
PCB-41/64/71/72	6010	491			1.70	D
PCB-42/59	2100	246			0.899	D
PCB-43/49	6180	246			0.879	D

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-44	7000	123			0.745	D
PCB-45	1030	123			0.402	D
PCB-46	513	123			0.537	D
PCB-47	2030	123			2.19	D
PCB-48/75	853	246			0.983	D
PCB-50	ND	123	60.2		0.603	D
PCB-51	422	123			0.789	D
PCB-52/69	10000	246			0.722	D
PCB-53	1220	123			0.331	D
PCB-54	ND	123	48.1		0.275	D
PCB-55	207	123			0.416	D
PCB-56/60	4070	246			0.825	D
PCB-57	90.0	123			0.354	J, D
PCB-58	ND	123	56.1		0.589	D
PCB-61/70	9390	246			1.20	D
PCB-62	ND	123	63.6		0.597	D
PCB-63	283	123			0.524	D
PCB-65	ND	123	63.4		0.842	D
PCB-66/76	5800	246			1.31	D
PCB-67	218	123			0.486	D
PCB-68	79.4	123			0.658	J, D
PCB-73	ND	123	58.9		0.454	D
PCB-74	2600	123			0.781	D
PCB-77	1160	123			0.748	D
PCB-78	ND	123	47.9		0.385	D
PCB-79	208	123			0.633	D
PCB-80	ND	123	45.0		0.336	D
PCB-81	91.3	123			0.674	J, D
PCB-82	2050	123			0.981	D
PCB-83	ND	123	83.7		0.440	D
PCB-84/92	7870	246			1.01	D
PCB-85/116	2380	246			1.64	D
PCB-86	ND	123	151		1.79	D
PCB-87/117/125	6240	368			0.880	D
PCB-88/91	2500	246			1.25	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: AS-CB-05-20150120-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 12:45

Sample Data
Matrix: Sediment
Sample Size: 5.56 g
% Solids: 36.6

Laboratory Data
Lab Sample: 1500108-02 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0115 Date Extracted: 29-Jan-2015 10:19
Date Analyzed : 05-Feb-15 17:32 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	132	123			1.22	D
PCB-90/101	20400	246			1.19	D
PCB-93	ND	123	208		2.53	D
PCB-94	ND	123	166		0.874	D
PCB-95/98/102	14900	368			1.38	D
PCB-96	ND	123	152		0.588	D
PCB-97	5340	123			0.675	D
PCB-99	5810	123			0.474	D
PCB-100	ND	123	185		0.511	D
PCB-103	ND	123	181		0.428	D
PCB-104	ND	123	146		0.876	D
PCB-105	6590	123			0.462	D
PCB-106/118	16300	246			0.728	D
PCB-107/109	1140	246			0.631	D
PCB-108/112	870	246			0.844	D
PCB-110	21500	123			0.555	D
PCB-111/115	323	246			1.24	D
PCB-113	119	123			0.495	J, D
PCB-114	374	123			0.418	D
PCB-119	428	123			0.383	D
PCB-120	ND	123	75.9		0.622	D
PCB-121	ND	123	108		0.978	D
PCB-122	196	123			0.619	D
PCB-123	207	123			0.494	D
PCB-124	810	123			0.813	D
PCB-126	253	123			0.543	D
PCB-127	ND	123	51.4		0.326	D
PCB-128/162	4170	246			1.08	D
PCB-129	1480	123			0.567	D
PCB-130	1770	123			0.798	D
PCB-131	ND	123	163		0.731	D
PCB-132/161	8500	246			1.05	D
PCB-133/142	992	246			1.04	D
PCB-134/143	1550	246			1.05	D
PCB-135	3840	123			1.47	D
PCB-136	3450	123			0.776	D
PCB-137	1130	123			0.541	D
PCB-138/163/164	29000	368			0.809	D
PCB-139/149	25000	246			1.49	D
PCB-140	ND	123		146	1.20	D
PCB-141	6460	123			0.678	D
PCB-144	1270	123			1.38	D
PCB-145	ND	123	64.9		1.05	D
PCB-146/165	3940	246			0.792	D
PCB-147	379	123			5.26	D
PCB-148	ND	123	105		1.45	D
PCB-150	ND	123	78.1		0.801	D
PCB-151	7130	123			1.16	D
PCB-152	ND	123	69.9		0.744	D
PCB-153	26000	123			0.484	D
PCB-154	350	123			0.837	D
PCB-155	ND	123	70.2		0.767	D
PCB-156	2790	123			0.534	D
PCB-157	585	123			0.485	D
PCB-158/160	3080	246			0.915	D
PCB-159	ND	123	136		0.578	D
PCB-166	87.1	123			0.425	J, D
PCB-167	1050	123			0.653	D
PCB-168	ND	123	102		0.502	D
PCB-169	ND	123	129		0.767	D
PCB-170	9010	123			0.758	D
PCB-171	2350	123			0.372	D
PCB-172	1480	123			0.857	D
PCB-173	241	123			0.507	D
PCB-174	11300	123			0.797	D
PCB-175	359	123			0.679	D
PCB-176	1140	123			0.729	D
PCB-177	6540	123			0.404	D
PCB-178	2020	123			0.610	D
PCB-179	4540	123			0.418	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: AS-CB-05-20150120-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 12:45

Sample Data
Matrix: Sediment
Sample Size: 5.56 g
% Solids: 36.6

Laboratory Data
Lab Sample: 1500108-02 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0115 Date Extracted: 29-Jan-2015 10:19
Date Analyzed : 05-Feb-15 17:32 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	24800	123			0.420	D
PCB-181	ND	123	90.6		1.26	D
PCB-182/187	10500	246			1.33	D
PCB-183	4800	123			0.638	D
PCB-184	ND	123	53.0		0.597	D
PCB-185	921	123			0.557	D
PCB-186	ND	123	59.5		0.421	D
PCB-188	ND	123	54.7		0.759	D
PCB-189	356	123			0.483	D
PCB-190	1670	123			0.686	D
PCB-191	384	123			0.447	D
PCB-192	ND	123	71.8		0.528	D
PCB-193	1040	123			0.836	D
PCB-194	5100	123			0.645	D
PCB-195	2000	123			0.722	D
PCB-196/203	6030	246			0.983	D
PCB-197	221	123			0.794	D
PCB-198	379	123			0.792	D
PCB-199	5030	123			0.615	D
PCB-200	682	123			0.795	D
PCB-201	661	123			0.317	D
PCB-202	1220	123			0.759	D
PCB-204	ND	123	88.9		0.543	D
PCB-205	204	123			0.471	D
PCB-206	2680	123			0.852	D
PCB-207	268	123			0.402	D
PCB-208	780	123			0.441	D
PCB-209	606	123			1.10	D
Total monoCB	356	123				
Total diCB	19800	123		20100		
Total triCB	28300	123				B
Total tetraCB	62800	123				
Total pentaCB	117000	123				
Total hexaCB	134000	123				
Total heptaCB	83400	123				
Total octaCB	21500	123				
Total nonaCB	3730	123				
DecaCB	606	123				
Total PCB	471000	123				B

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: AS-CB-05-20150120-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 12:45

Sample Data
Matrix: Sediment
Sample Size: 5.56 g
% Solids: 36.6

Laboratory Data
Lab Sample: 1500108-02 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0115 Date Extracted: 29-Jan-2015 10:19
Date Analyzed : 05-Feb-15 17:32 Column: ZB-1 Analyst: DMS

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	90.6	5 -145	D
	13C-PCB-3	91.0	5 -145	D
	13C-PCB-4	87.6	5 -145	D
	13C-PCB-11	90.1	5 -145	D
	13C-PCB-9	86.9	5 -145	D
	13C-PCB-19	78.4	5 -145	D
	13C-PCB-28	90.1	5 -145	D
	13C-PCB-32	78.0	5 -145	D
	13C-PCB-37	95.5	5 -145	D
	13C-PCB-47	88.3	5 -145	D
	13C-PCB-52	85.5	5 -145	D
	13C-PCB-54	81.6	5 -145	D
	13C-PCB-70	88.8	5 -145	D
	13C-PCB-77	86.1	10 -145	D
	13C-PCB-80	87.4	10 -145	D
	13C-PCB-81	87.9	10 -145	D
	13C-PCB-95	90.8	10 -145	D
	13C-PCB-97	92.5	10 -145	D
	13C-PCB-101	93.3	10 -145	D
	13C-PCB-104	91.9	10 -145	D
	13C-PCB-105	89.8	10 -145	D
	13C-PCB-114	93.8	10 -145	D
	13C-PCB-118	86.1	10 -145	D
	13C-PCB-123	88.7	10 -145	D
	13C-PCB-126	87.7	10 -145	D
	13C-PCB-127	86.9	10 -145	D
	13C-PCB-138	86.0	10 -145	D
	13C-PCB-141	89.6	10 -145	D
	13C-PCB-153	89.7	10 -145	D
	13C-PCB-155	74.6	10 -145	D
	13C-PCB-156	79.6	10 -145	D
	13C-PCB-157	83.4	10 -145	D
	13C-PCB-159	86.3	10 -145	D
	13C-PCB-167	83.8	10 -145	D
	13C-PCB-169	77.2	10 -145	D
	13C-PCB-170	73.7	10 -145	D
	13C-PCB-180	71.7	10 -145	D
	13C-PCB-188	80.5	10 -145	D
	13C-PCB-189	56.9	10 -145	D
	13C-PCB-194	99.8	10 -145	D
	13C-PCB-202	66.3	10 -145	D
	13C-PCB-206	90.2	10 -145	D
	13C-PCB-208	86.1	10 -145	D
	13C-PCB-209	90.1	10 -145	D
CRS	13C-PCB-79	93.6	10 -145	D
	13C-PCB-178	82.1	10 -145	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: AS-CB-UNR-20150120-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 14:30

Sample Data
Matrix: Sediment
Sample Size: 3.18 g
% Solids: 63.0

Laboratory Data
Lab Sample: 1500108-03 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0115 Date Extracted: 29-Jan-2015 10:19
Date Analyzed : 05-Feb-15 18:36 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	175	125			0.320	D
PCB-2	35.8	125			0.240	J, D
PCB-3	85.5	125			0.323	J, D
PCB-4/10	884	249			1.14	D
PCB-5/8	3570	249			1.76	D
PCB-6	845	125			1.00	D
PCB-7/9	371	249			1.34	D
PCB-11	3740	125			3.48	D
PCB-12/13	274	249			1.37	D
PCB-14	ND	125	282		0.337	D
PCB-15	1690	125			0.634	D
PCB-16/32	2410	249			0.430	D
PCB-17	1440	125			0.658	D
PCB-18	4190	125			0.696	D
PCB-19	415	125			0.612	D
PCB-20/21/33	2800	374			2.47	B, D
PCB-22	1460	125			0.964	D
PCB-23	ND	125	18.6		0.543	D
PCB-24/27	445	249			0.742	D
PCB-25	885	125			0.768	D
PCB-26	1810	125			0.766	D
PCB-28	2930	125			1.12	D
PCB-29	42.0	125			0.949	J, D
PCB-30	ND	125	18.1		0.355	D
PCB-31	4240	125			0.809	D
PCB-34	30.9	125			1.57	J, D
PCB-35	166	125			0.565	D
PCB-36	ND	125	25.8		0.406	D
PCB-37	1520	125			0.389	D
PCB-38	50.5	125			0.528	J, D
PCB-39	ND	125	26.4		0.461	D
PCB-40	735	125			0.927	D
PCB-41/64/71/72	4090	499			1.70	D
PCB-42/59	1300	249			0.899	D
PCB-43/49	5290	249			0.879	D

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-44	4650	125			0.745	D
PCB-45	687	125			0.402	D
PCB-46	349	125			0.537	D
PCB-47	1470	125			2.19	D
PCB-48/75	675	249			0.983	D
PCB-50	ND	125	41.4		0.603	D
PCB-51	405	125			0.789	D
PCB-52/69	8070	249			0.722	D
PCB-53	1050	125			0.331	D
PCB-54	27.9	125			0.275	J, D
PCB-55	129	125			0.416	D
PCB-56/60	2240	249			0.825	D
PCB-57	60.0	125			0.354	J, D
PCB-58	ND	125	38.7		0.589	D
PCB-61/70	6070	249			1.20	D
PCB-62	ND	125	36.3		0.597	D
PCB-63	166	125			0.524	D
PCB-65	ND	125	36.2		0.842	D
PCB-66/76	3540	249			1.31	D
PCB-67	188	125			0.486	D
PCB-68	78.0	125			0.658	J, D
PCB-73	26.2	125			0.454	J, D
PCB-74	1520	125			0.781	D
PCB-77	734	125			0.748	D
PCB-78	ND	125	31.7		0.385	D
PCB-79	196	125			0.633	D
PCB-80	ND	125	29.7		0.336	D
PCB-81	48.9	125			0.674	J, D
PCB-82	1880	125			0.981	D
PCB-83	ND	125	76.1		0.440	D
PCB-84/92	7340	249			1.01	D
PCB-85/116	2660	249			1.64	D
PCB-86	ND	125	137		1.79	D
PCB-87/117/125	5340	374			0.880	D
PCB-88/91	2570	249			1.25	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: AS-CB-UNR-20150120-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 14:30

Sample Data
Matrix: Sediment
Sample Size: 3.18 g
% Solids: 63.0

Laboratory Data
Lab Sample: 1500108-03 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0115 Date Extracted: 29-Jan-2015 10:19
Date Analyzed : 05-Feb-15 18:36 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	ND	125		90.6	1.22	D
PCB-90/101	17900	249			1.19	D
PCB-93	ND	125	128		2.53	D
PCB-94	99.3	125			0.874	J, D
PCB-95/98/102	14600	374			1.38	D
PCB-96	114	125			0.588	J, D
PCB-97	4510	125			0.675	D
PCB-99	5870	125			0.474	D
PCB-100	92.2	125			0.511	J, D
PCB-103	163	125			0.428	D
PCB-104	ND	125	62.6		0.876	D
PCB-105	4980	125			0.462	D
PCB-106/118	13600	249			0.728	D
PCB-107/109	983	249			0.631	D
PCB-108/112	ND	249		665	0.844	D
PCB-110	24400	125			0.555	D
PCB-111/115	224	249			1.24	J, D
PCB-113	ND	125	68.3		0.495	D
PCB-114	320	125			0.418	D
PCB-119	454	125			0.383	D
PCB-120	ND	125		86.6	0.622	D
PCB-121	ND	125	66.9		0.978	D
PCB-122	209	125			0.619	D
PCB-123	ND	125		207	0.494	D
PCB-124	644	125			0.813	D
PCB-126	218	125			0.543	D
PCB-127	ND	125	64.0		0.326	D
PCB-128/162	4780	249			1.08	D
PCB-129	1450	125			0.567	D
PCB-130	1860	125			0.798	D
PCB-131	ND	125	76.7		0.731	D
PCB-132/161	8150	249			1.05	D
PCB-133/142	938	249			1.04	D
PCB-134/143	1630	249			1.05	D
PCB-135	4210	125			1.47	D

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-136	3630	125			0.776	D
PCB-137	1590	125			0.541	D
PCB-138/163/164	29700	374			0.809	D
PCB-139/149	26600	249			1.49	D
PCB-140	195	125			1.20	D
PCB-141	6180	125			0.678	D
PCB-144	1290	125			1.38	D
PCB-145	ND	125	58.8		1.05	D
PCB-146/165	4070	249			0.792	D
PCB-147	515	125			5.26	D
PCB-148	ND	125	94.9		1.45	D
PCB-150	ND	125	70.7		0.801	D
PCB-151	7070	125			1.16	D
PCB-152	ND	125	63.3		0.744	D
PCB-153	24600	125			0.484	D
PCB-154	349	125			0.837	D
PCB-155	ND	125	63.4		0.767	D
PCB-156	2340	125			0.534	D
PCB-157	606	125			0.485	D
PCB-158/160	3360	249			0.915	D
PCB-159	ND	125	64.2		0.578	D
PCB-166	105	125			0.425	J, D
PCB-167	1110	125			0.653	D
PCB-168	ND	125	48.1		0.502	D
PCB-169	ND	125	62.4		0.767	D
PCB-170	8450	125			0.758	D
PCB-171	2270	125			0.372	D
PCB-172	1360	125			0.857	D
PCB-173	305	125			0.507	D
PCB-174	9890	125			0.797	D
PCB-175	384	125			0.679	D
PCB-176	1070	125			0.729	D
PCB-177	6090	125			0.404	D
PCB-178	1830	125			0.610	D
PCB-179	4210	125			0.418	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: AS-CB-UNR-20150120-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 14:30

Sample Data
Matrix: Sediment
Sample Size: 3.18 g
% Solids: 63.0

Laboratory Data
Lab Sample: 1500108-03 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0115 Date Extracted: 29-Jan-2015 10:19
Date Analyzed : 05-Feb-15 18:36 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	22700	125			0.420	D
PCB-181	ND	125	51.3		1.26	D
PCB-182/187	10000	249			1.33	D
PCB-183	4770	125			0.638	D
PCB-184	ND	125	31.5		0.597	D
PCB-185	839	125			0.557	D
PCB-186	ND	125	35.4		0.421	D
PCB-188	ND	125	32.5		0.759	D
PCB-189	317	125			0.483	D
PCB-190	1610	125			0.686	D
PCB-191	352	125			0.447	D
PCB-192	ND	125	40.6		0.528	D
PCB-193	923	125			0.836	D
PCB-194	4700	125			0.645	D
PCB-195	1660	125			0.722	D
PCB-196/203	5280	249			0.983	D
PCB-197	206	125			0.794	D
PCB-198	205	125			0.792	D
PCB-199	4790	125			0.615	D
PCB-200	592	125			0.795	D
PCB-201	584	125			0.317	D
PCB-202	955	125			0.759	D
PCB-204	ND	125	61.6		0.543	D
PCB-205	197	125			0.471	D
PCB-206	2250	125			0.852	D
PCB-207	230	125			0.402	D
PCB-208	643	125			0.441	D
PCB-209	498	125			1.10	D
Total monoCB	296	125				
Total diCB	11400	125				
Total triCB	24800	125				B
Total tetraCB	43800	125				
Total pentaCB	109000	125		110000		
Total hexaCB	136000	125				
Total heptaCB	77400	125				
Total octaCB	19200	125				
Total nonaCB	3120	125				
DecaCB	498	125				
Total PCB	426000	125				B

RL - Reporting limit
DL - Sample specifc estimated detection limit
LCL-UCL- Lower control limit - upper control limit
EMPC - Estimated maximum possible concentration
MDL - Method detection limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: AS-CB-UNR-20150120-S

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 14:30

Sample Data
Matrix: Sediment
Sample Size: 3.18 g
% Solids: 63.0

Laboratory Data
Lab Sample: 1500108-03 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0115 Date Extracted: 29-Jan-2015 10:19
Date Analyzed : 05-Feb-15 18:36 Column: ZB-1 Analyst: DMS

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	94.9	5 -145	D
	13C-PCB-3	92.7	5 -145	D
	13C-PCB-4	90.1	5 -145	D
	13C-PCB-11	88.8	5 -145	D
	13C-PCB-9	89.6	5 -145	D
	13C-PCB-19	83.1	5 -145	D
	13C-PCB-28	99.3	5 -145	D
	13C-PCB-32	82.2	5 -145	D
	13C-PCB-37	102	5 -145	D
	13C-PCB-47	91.1	5 -145	D
	13C-PCB-52	89.8	5 -145	D
	13C-PCB-54	87.6	5 -145	D
	13C-PCB-70	92.6	5 -145	D
	13C-PCB-77	92.8	10 -145	D
	13C-PCB-80	93.9	10 -145	D
	13C-PCB-81	92.3	10 -145	D
	13C-PCB-95	86.2	10 -145	D
	13C-PCB-97	91.3	10 -145	D
	13C-PCB-101	89.4	10 -145	D
	13C-PCB-104	90.5	10 -145	D
	13C-PCB-105	89.5	10 -145	D
	13C-PCB-114	86.9	10 -145	D
	13C-PCB-118	87.3	10 -145	D
	13C-PCB-123	90.9	10 -145	D
	13C-PCB-126	85.0	10 -145	D
	13C-PCB-127	88.3	10 -145	D
	13C-PCB-138	91.1	10 -145	D
	13C-PCB-141	87.7	10 -145	D
	13C-PCB-153	90.7	10 -145	D
	13C-PCB-155	73.1	10 -145	D
	13C-PCB-156	87.0	10 -145	D
	13C-PCB-157	87.1	10 -145	D
	13C-PCB-159	87.4	10 -145	D
	13C-PCB-167	88.3	10 -145	D
	13C-PCB-169	80.0	10 -145	D
	13C-PCB-170	76.4	10 -145	D
	13C-PCB-180	74.4	10 -145	D
	13C-PCB-188	80.3	10 -145	D
	13C-PCB-189	70.8	10 -145	D
	13C-PCB-194	95.3	10 -145	D
	13C-PCB-202	70.0	10 -145	D
	13C-PCB-206	85.4	10 -145	D
	13C-PCB-208	83.2	10 -145	D
	13C-PCB-209	88.8	10 -145	D
CRS	13C-PCB-79	99.1	10 -145	D
	13C-PCB-178	88.3	10 -145	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.

Sample ID: Method Blank — EPA Method 1668C

Matrix: Aqueous
Sample Size: 1.00 L
QC Batch: B5A0099
Date Extracted: 26-Jan-2015 10:29
Lab Sample: B5A0099-BLK1
Date Analyzed: 27-Jan-15 13:52 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	ND	5.00	3.07		1.21	
PCB-2	ND	5.00	2.92		1.75	
PCB-3	ND	5.00	2.91		1.49	
PCB-4/10	ND	10.0	5.35		5.64	
PCB-5/8	ND	10.0	4.52		3.59	
PCB-6	ND	5.00	4.63		3.10	
PCB-7/9	ND	10.0	4.58		6.22	
PCB-11	ND	5.00	12.0		3.86	
PCB-12/13	ND	10.0	4.39		5.01	
PCB-14	ND	5.00	3.78		3.98	
PCB-15	ND	5.00	3.86		2.53	
PCB-16/32	ND	10.0	1.83		2.87	
PCB-17	ND	5.00	2.00		1.37	
PCB-18	ND	5.00	2.16		2.57	
PCB-19	ND	5.00	2.35		2.38	
PCB-20/21/33	ND	15.0	2.70		10.3	
PCB-22	ND	5.00	2.68		3.17	
PCB-23	ND	5.00	2.58		1.35	
PCB-24/27	ND	10.0	1.47		3.16	
PCB-25	ND	5.00	2.85		3.34	
PCB-26	ND	5.00	2.52		2.19	
PCB-28	ND	5.00	2.52		2.90	
PCB-29	ND	5.00	2.58		1.60	
PCB-30	ND	5.00	1.48		2.09	
PCB-31	ND	5.00	2.50		4.29	
PCB-34	ND	5.00	2.40		2.34	
PCB-35	ND	5.00	2.66		1.65	
PCB-36	ND	5.00	2.57		2.69	
PCB-37	ND	5.00	2.48		1.92	
PCB-38	ND	5.00	2.69		1.56	
PCB-39	ND	5.00	2.65		2.60	
PCB-40	ND	5.00	3.84		3.08	
PCB-41/64/71/72	ND	20.0	2.46		5.57	
PCB-42/59	ND	10.0	2.66		2.84	
PCB-43/49	ND	10.0	2.98		3.38	
PCB-44	ND	5.00	3.78		2.48	
PCB-45	ND	5.00	3.26		1.96	
PCB-46	ND	5.00	3.57		2.49	
PCB-47	ND	5.00	2.75		4.42	
PCB-48/75	ND	10.0	2.48		2.09	
PCB-50	ND	5.00	3.35		1.40	
PCB-51	ND	5.00	2.92		1.42	
PCB-52/69	ND	10.0	2.63		3.64	
PCB-53	ND	5.00	2.98		1.12	
PCB-54	ND	5.00	2.55		1.51	
PCB-55	ND	5.00	1.98		1.19	
PCB-56/60	ND	10.0	2.21		2.19	
PCB-57	ND	5.00	2.21		0.857	
PCB-58	ND	5.00	2.18		1.81	
PCB-61/70	ND	10.0	2.20		2.40	
PCB-62	ND	5.00	2.42		1.46	
PCB-63	ND	5.00	2.13		0.696	
PCB-65	ND	5.00	2.50		0.953	
PCB-66/76	ND	10.0	2.10		2.82	
PCB-67	ND	5.00	2.27		1.22	
PCB-68	ND	5.00	2.05		1.24	
PCB-73	ND	5.00	2.40		1.56	
PCB-74	ND	5.00	2.04		1.53	
PCB-77	ND	5.00	1.92		1.34	
PCB-78	ND	5.00	2.07		0.990	
PCB-79	ND	5.00	2.10		1.60	
PCB-80	ND	5.00	1.84		1.98	
PCB-81	ND	5.00	1.89		2.34	
PCB-82	ND	5.00	4.06		1.69	
PCB-83	ND	5.00	2.47		1.32	
PCB-84/92	ND	10.0	3.47		3.38	
PCB-85/116	ND	10.0	2.95		2.83	
PCB-86	ND	5.00	3.97		2.34	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: Method Blank — EPA Method 1668C

Matrix: Aqueous
Sample Size: 1.00 L
QC Batch: B5A0099
Date Extracted: 26-Jan-2015 10:29
Lab Sample: B5A0099-BLK1
Date Analyzed: 27-Jan-15 13:52 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-87/117/125	ND	15.0	2.58		3.79	
PCB-88/91	ND	5.00	3.81		3.25	
PCB-89	ND	5.00	3.73		1.84	
PCB-90/101	ND	10.0	3.08		1.92	
PCB-93	ND	5.00	4.04		1.47	
PCB-94	ND	5.00	3.79		1.91	
PCB-95/98/102	ND	15.0	3.33		6.58	
PCB-96	ND	5.00	3.03		2.16	
PCB-97	ND	5.00	3.16		1.24	
PCB-99	ND	5.00	2.97		1.94	
PCB-100	ND	5.00	3.43		2.03	
PCB-103	ND	5.00	3.42		2.28	
PCB-104	ND	5.00	2.62		0.931	
PCB-105	ND	5.00	1.27		2.21	
PCB-106/118	ND	10.0	2.39		2.44	
PCB-107/109	ND	10.0	2.26		1.98	
PCB-108/112	ND	10.0	2.92		1.86	
PCB-110	ND	5.00	2.41		1.94	
PCB-111/115	ND	10.0	2.21		0.768	
PCB-113	ND	5.00	2.77		1.31	
PCB-114	ND	5.00	1.35		1.81	
PCB-119	ND	5.00	2.18		0.949	
PCB-120	ND	5.00	2.07		1.01	
PCB-121	ND	5.00	2.43		1.94	
PCB-122	ND	5.00	1.61		1.84	
PCB-123	ND	5.00	2.41		1.35	
PCB-124	ND	5.00	2.31		1.79	
PCB-126	ND	5.00	1.43		2.05	
PCB-127	ND	5.00	1.44		0.808	
PCB-128/162	ND	10.0	1.57		1.68	
PCB-129	ND	5.00	2.00		1.11	
PCB-130	ND	5.00	2.28		2.21	
PCB-131	ND	5.00	2.22		1.46	
PCB-132/161	ND	10.0	1.67		2.34	
PCB-133/142	ND	10.0	2.06		2.19	
PCB-134/143	ND	10.0	2.01		2.40	
PCB-135	ND	5.00	2.04		2.90	
PCB-136	ND	5.00	1.42		2.89	
PCB-137	ND	5.00	1.78		2.08	
PCB-138/163/164	ND	15.0	1.44		2.68	
PCB-139/149	ND	10.0	1.86		7.87	
PCB-140	ND	5.00	2.09		3.52	
PCB-141	ND	5.00	1.81		1.15	
PCB-144	ND	5.00	1.90		3.22	
PCB-145	ND	5.00	1.48		1.73	
PCB-146/165	ND	10.0	1.73		1.91	
PCB-147	ND	5.00	2.08		3.62	
PCB-148	ND	5.00	1.98		1.68	
PCB-150	ND	5.00	1.44		1.14	
PCB-151	ND	5.00	1.98		3.59	
PCB-152	ND	5.00	1.39		1.82	
PCB-153	ND	5.00	1.56		1.83	
PCB-154	ND	5.00	1.82		2.78	
PCB-155	ND	5.00	1.35		1.45	
PCB-156	ND	5.00	1.26		1.74	
PCB-157	ND	5.00	1.29		1.17	
PCB-158/160	ND	10.0	1.34		1.99	
PCB-159	ND	5.00	1.33		1.20	
PCB-166	ND	5.00	1.42		0.920	
PCB-167	ND	5.00	1.36		1.65	
PCB-168	ND	5.00	1.38		0.933	
PCB-169	ND	5.00	1.36		1.12	
PCB-170	ND	5.00	1.12		1.38	
PCB-171	ND	5.00	1.13		1.61	
PCB-172	ND	5.00	1.22		1.46	
PCB-173	ND	5.00	1.49		1.49	
PCB-174	ND	5.00	1.28		1.42	
PCB-175	ND	5.00	1.47		3.15	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: Method Blank — EPA Method 1668C

Matrix:	Aqueous	QC Batch:	B5A0099	Lab Sample:	B5A0099-BLK1
Sample Size:	1.00 L	Date Extracted:	26-Jan-2015 10:29	Date Analyzed:	27-Jan-15 13:52 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-176	ND	5.00	1.06		2.17	
PCB-177	ND	5.00	1.30		1.34	
PCB-178	ND	5.00	1.43		2.25	
PCB-179	ND	5.00	1.11		1.57	
PCB-180	ND	5.00	1.14		0.610	
PCB-181	ND	5.00	1.22		1.01	
PCB-182/187	ND	10.0	1.36		6.20	
PCB-183	ND	5.00	1.26		3.29	
PCB-184	ND	5.00	1.15		1.25	
PCB-185	ND	5.00	1.18		1.47	
PCB-186	ND	5.00	1.06		2.43	
PCB-188	ND	5.00	1.01		1.08	
PCB-189	ND	5.00	0.827		1.49	
PCB-190	ND	5.00	0.835		1.70	
PCB-191	ND	5.00	0.887		1.96	
PCB-192	ND	5.00	0.950		1.69	
PCB-193	ND	5.00	0.892		1.46	
PCB-194	ND	5.00	1.53		1.71	
PCB-195	ND	5.00	1.73		1.47	
PCB-196/203	ND	10.0	2.54		6.35	
PCB-197	ND	5.00	1.80		1.80	
PCB-198	ND	5.00	2.79		3.78	
PCB-199	ND	5.00	2.84		4.05	
PCB-200	ND	5.00	2.03		1.75	
PCB-201	ND	5.00	1.92		1.02	
PCB-202	ND	5.00	2.07		1.55	
PCB-204	ND	5.00	1.96		1.48	
PCB-205	ND	5.00	1.23		1.53	
PCB-206	ND	5.00	1.90		1.32	
PCB-207	ND	5.00	0.979		1.51	
PCB-208	ND	5.00	0.992		1.34	
PCB-209	ND	5.00	1.54		1.86	
Total monoCB	ND	5.00	3.07			
Total diCB	ND	5.00	12.0			

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
Total triCB	ND	5.00	2.85			
Total tetraCB	ND	5.00	3.84			
Total pentaCB	ND	5.00	4.06			
Total hexaCB	ND	5.00	2.28			
Total heptaCB	ND	5.00	1.49			
Total octaCB	ND	5.00	2.84			
Total nonaCB	ND	5.00	1.90			
DecaCB	ND	5.00	1.54			
Total PCB	ND	5.00	12.0			

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: Method Blank

EPA Method 1668C

Matrix: Aqueous
Sample Size: 1.00 L

QC Batch: B5A0099
Date Extracted: 26-Jan-2015 10:29

Lab Sample: B5A0099-BLK1
Date Analyzed: 27-Jan-15 13:52 Column: ZB-1 Analyst: DMS

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	71.6	5 - 145	
	13C-PCB-3	77.0	5 - 145	
	13C-PCB-4	70.7	5 - 145	
	13C-PCB-11	76.3	5 - 145	
	13C-PCB-9	70.7	5 - 145	
	13C-PCB-19	85.1	5 - 145	
	13C-PCB-28	65.6	5 - 145	
	13C-PCB-32	88.0	5 - 145	
	13C-PCB-37	81.1	5 - 145	
	13C-PCB-47	74.4	5 - 145	
	13C-PCB-52	80.4	5 - 145	
	13C-PCB-54	67.1	5 - 145	
	13C-PCB-70	80.4	5 - 145	
	13C-PCB-77	85.1	10 - 145	
	13C-PCB-80	79.1	10 - 145	
	13C-PCB-81	83.4	10 - 145	
	13C-PCB-95	80.9	10 - 145	
	13C-PCB-97	88.4	10 - 145	
	13C-PCB-101	82.2	10 - 145	
	13C-PCB-104	73.8	10 - 145	
	13C-PCB-105	75.5	10 - 145	
	13C-PCB-114	71.0	10 - 145	
	13C-PCB-118	87.3	10 - 145	
	13C-PCB-123	88.6	10 - 145	
	13C-PCB-126	82.2	10 - 145	
	13C-PCB-127	75.9	10 - 145	
	13C-PCB-138	79.4	10 - 145	
	13C-PCB-141	78.0	10 - 145	
	13C-PCB-153	74.2	10 - 145	
	13C-PCB-155	71.9	10 - 145	
	13C-PCB-156	84.0	10 - 145	
	13C-PCB-157	83.8	10 - 145	
	13C-PCB-159	80.8	10 - 145	
	13C-PCB-167	81.7	10 - 145	
	13C-PCB-169	89.5	10 - 145	
	13C-PCB-170	87.4	10 - 145	
	13C-PCB-180	85.5	10 - 145	
	13C-PCB-188	68.3	10 - 145	
	13C-PCB-189	88.8	10 - 145	
	13C-PCB-194	89.6	10 - 145	
	13C-PCB-202	73.3	10 - 145	
	13C-PCB-206	97.4	10 - 145	
	13C-PCB-208	88.0	10 - 145	
	13C-PCB-209	100	10 - 145	
CRS	13C-PCB-79	88.8	10 - 145	
	13C-PCB-178	87.5	10 - 145	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: OPR

EPA Method 1668C

Matrix: Aqueous
Sample Size: 1.00 L

QC Batch: B5A0099
Date Extracted: 26-Jan-2015 10:29

Lab Sample: B5A0099-BS1
Date Analyzed: 27-Jan-15 11:43 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits
PCB-1	790	1000	79.0	60 - 135
PCB-3	786	1000	78.6	60 - 135
PCB-4/10	1740	2000	87.1	60 - 135
PCB-15	871	1000	87.1	60 - 135
PCB-19	970	1000	97.0	60 - 135
PCB-37	829	1000	82.9	60 - 135
PCB-54	923	1000	92.3	60 - 135
PCB-77	907	1000	90.7	60 - 135
PCB-81	901	1000	90.1	60 - 135
PCB-104	944	1000	94.4	60 - 135
PCB-105	812	1000	81.2	60 - 135
PCB-106/118	1910	2000	95.3	60 - 135
PCB-114	850	1000	85.0	60 - 135
PCB-123	971	1000	97.1	60 - 135
PCB-126	824	1000	82.4	60 - 135
PCB-155	968	1000	96.8	60 - 135
PCB-156	913	1000	91.3	60 - 135
PCB-157	935	1000	93.5	60 - 135
PCB-167	920	1000	92.0	60 - 135
PCB-169	961	1000	96.1	60 - 135
PCB-188	955	1000	95.5	60 - 135
PCB-189	972	1000	97.2	60 - 135
PCB-202	996	1000	99.6	60 - 135
PCB-205	899	1000	89.9	60 - 135
PCB-206	919	1000	91.9	60 - 135
PCB-208	911	1000	91.1	60 - 135
PCB-209	921	1000	92.1	60 - 135

	Labeled Standard	%R	LCL-UCL
IS	13C-PCB-1	84.9	15 - 145
IS	13C-PCB-3	87.5	15 - 145
IS	13C-PCB-4	77.8	15 - 145
IS	13C-PCB-11	85.4	15 - 145
IS	13C-PCB-9	78.9	15 - 145
IS	13C-PCB-19	98.3	15 - 145
IS	13C-PCB-28	75.3	15 - 145
IS	13C-PCB-32	100	15 - 145
IS	13C-PCB-37	90.0	15 - 145
IS	13C-PCB-47	85.6	15 - 145
IS	13C-PCB-52	87.7	15 - 145
IS	13C-PCB-54	77.1	15 - 145
IS	13C-PCB-70	89.7	15 - 145
IS	13C-PCB-77	97.9	40 - 145
IS	13C-PCB-80	88.0	40 - 145
IS	13C-PCB-81	95.2	40 - 145
IS	13C-PCB-95	93.1	40 - 145
IS	13C-PCB-97	98.0	40 - 145
IS	13C-PCB-101	91.8	40 - 145
IS	13C-PCB-104	83.9	40 - 145
IS	13C-PCB-105	88.9	40 - 145
IS	13C-PCB-114	84.8	40 - 145
IS	13C-PCB-118	97.2	40 - 145
IS	13C-PCB-123	102	40 - 145
IS	13C-PCB-126	96.0	40 - 145
IS	13C-PCB-127	92.1	40 - 145
IS	13C-PCB-138	93.1	40 - 145
IS	13C-PCB-141	92.2	40 - 145
IS	13C-PCB-153	89.9	40 - 145
IS	13C-PCB-155	81.6	40 - 145
IS	13C-PCB-156	98.1	40 - 145
IS	13C-PCB-157	96.3	40 - 145
IS	13C-PCB-159	94.8	40 - 145
IS	13C-PCB-167	95.1	40 - 145
IS	13C-PCB-169	100	40 - 145
IS	13C-PCB-170	101	40 - 145
IS	13C-PCB-180	98.8	40 - 145
IS	13C-PCB-188	82.9	40 - 145
IS	13C-PCB-189	101	40 - 145
IS	13C-PCB-194	99.8	40 - 145

Sample ID: OPR

EPA Method 1668C

Matrix: Aqueous
Sample Size: 1.00 L

QC Batch: B5A0099
Date Extracted: 26-Jan-2015 10:29

Lab Sample: B5A0099-BS1
Date Analyzed: 27-Jan-15 11:43 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits

	Labeled Standard	%R	LCL-UCL
IS	13C-PCB-202	86.8	40 - 145
IS	13C-PCB-206	107	40 - 145
IS	13C-PCB-208	97.3	40 - 145
IS	13C-PCB-209	114	40 - 145
CRS	13C-PCB-79	98.3	40 - 145
CRS	13C-PCB-178	99.9	40 - 145

LCL-UCL - Lower control limit - upper control limit

Sample ID: AS-CB-UNR-20150120-W

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 14:00

Sample Data
Matrix: Effluent
Sample Size: 1.00 L

Laboratory Data
Lab Sample: 1500108-04 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0099 Date Extracted: 26-Jan-2015 10:29
Date Analyzed : 27-Jan-15 18:10 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	18.4	5.00			1.21	
PCB-2	7.37	5.00			1.75	
PCB-3	15.8	5.00			1.49	
PCB-4/10	52.1	9.99			5.64	
PCB-5/8	173	9.99			3.59	
PCB-6	49.5	5.00			3.10	
PCB-7/9	21.1	9.99			6.22	
PCB-11	1300	5.00			3.86	
PCB-12/13	27.0	9.99			5.01	
PCB-14	ND	5.00	9.25		3.98	
PCB-15	207	5.00			2.53	
PCB-16/32	290	9.99			2.87	
PCB-17	146	5.00			1.37	
PCB-18	414	5.00			2.57	
PCB-19	44.4	5.00			2.38	
PCB-20/21/33	275	15.0			10.3	
PCB-22	190	5.00			3.17	
PCB-23	ND	5.00	4.37		1.35	
PCB-24/27	51.8	9.99			3.16	
PCB-25	81.6	5.00			3.34	
PCB-26	150	5.00			2.19	
PCB-28	429	5.00			2.90	
PCB-29	ND	5.00		3.04	1.60	
PCB-30	ND	5.00	0.837		2.09	
PCB-31	447	5.00			4.29	
PCB-34	ND	5.00	4.08		2.34	
PCB-35	27.7	5.00			1.65	
PCB-36	4.98	5.00			2.69	J
PCB-37	225	5.00			1.92	
PCB-38	11.5	5.00			1.56	
PCB-39	ND	5.00	4.51		2.60	
PCB-40	146	5.00			3.08	
PCB-41/64/71/72	679	20.0			5.57	
PCB-42/59	229	9.99			2.84	
PCB-43/49	741	9.99			3.38	

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-44	939	5.00			2.48	
PCB-45	114	5.00			1.96	
PCB-46	49.3	5.00			2.49	
PCB-47	242	5.00			4.42	
PCB-48/75	83.0	9.99			2.09	
PCB-50	2.77	5.00			1.40	J
PCB-51	46.3	5.00			1.42	
PCB-52/69	1560	9.99			3.64	
PCB-53	145	5.00			1.12	
PCB-54	2.84	5.00			1.51	J
PCB-55	35.8	5.00			1.19	
PCB-56/60	458	9.99			2.19	
PCB-57	8.46	5.00			0.857	
PCB-58	3.25	5.00			1.81	J
PCB-61/70	1170	9.99			2.40	
PCB-62	ND	5.00	2.32		1.46	
PCB-63	24.5	5.00			0.696	
PCB-65	ND	5.00	2.40		0.953	
PCB-66/76	871	9.99			2.82	
PCB-67	28.6	5.00			1.22	
PCB-68	9.89	5.00			1.24	
PCB-73	ND	5.00	2.34		1.56	
PCB-74	325	5.00			1.53	
PCB-77	228	5.00			1.34	
PCB-78	ND	5.00	2.25		0.990	
PCB-79	63.9	5.00			1.60	
PCB-80	ND	5.00	1.93		1.98	
PCB-81	27.8	5.00			2.34	
PCB-82	724	5.00			1.69	
PCB-83	ND	5.00	4.83		1.32	
PCB-84/92	2510	9.99			3.38	
PCB-85/116	937	9.99			2.83	
PCB-86	ND	5.00	7.78		2.34	
PCB-87/117/125	1900	15.0			3.79	
PCB-88/91	817	5.00			3.25	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: AS-CB-UNR-20150120-W

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 14:00

Sample Data
Matrix: Effluent
Sample Size: 1.00 L

Laboratory Data
Lab Sample: 1500108-04 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0099 Date Extracted: 26-Jan-2015 10:29
Date Analyzed : 27-Jan-15 18:10 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	31.8	5.00			1.84	
PCB-90/101	5590	9.99			1.92	
PCB-93	ND	5.00	7.31		1.47	
PCB-94	35.8	5.00			1.91	
PCB-95/98/102	4380	15.0			6.58	
PCB-96	35.4	5.00			2.16	
PCB-97	1470	5.00			1.24	
PCB-99	2330	5.00			1.94	
PCB-100	18.2	5.00			2.03	
PCB-103	32.8	5.00			2.28	
PCB-104	ND	5.00	4.56		0.931	
PCB-105	1380	5.00			2.21	
PCB-106/118	4170	9.99			2.44	
PCB-107/109	292	9.99			1.98	
PCB-108/112	232	9.99			1.86	
PCB-110	8880	5.00			1.94	
PCB-111/115	106	9.99			0.768	
PCB-113	ND	5.00	5.54		1.31	
PCB-114	49.1	5.00			1.81	
PCB-119	91.3	5.00			0.949	
PCB-120	11.0	5.00			1.01	
PCB-121	ND	5.00	4.41		1.94	
PCB-122	78.2	5.00			1.84	
PCB-123	104	5.00			1.35	
PCB-124	289	5.00			1.79	
PCB-126	63.4	5.00			2.05	
PCB-127	ND	5.00	4.72		0.808	
PCB-128/162	2340	9.99			1.68	
PCB-129	645	5.00			1.11	
PCB-130	936	5.00			2.21	
PCB-131	ND	5.00	8.43		1.46	
PCB-132/161	3450	9.99			2.34	
PCB-133/142	313	9.99			2.19	
PCB-134/143	659	9.99			2.40	
PCB-135	1660	5.00			2.90	
PCB-136	1300	5.00			2.89	
PCB-137	612	5.00			2.08	
PCB-138/163/164	13200	15.0			2.68	
PCB-139/149	8710	9.99			7.87	
PCB-140	54.9	5.00			3.52	
PCB-141	2410	5.00			1.15	
PCB-144	378	5.00			3.22	
PCB-145	3.75	5.00			1.73	J
PCB-146/165	1750	9.99			1.91	
PCB-147	195	5.00			3.62	
PCB-148	ND	5.00		7.89	1.68	
PCB-150	ND	5.00		10.7	1.14	
PCB-151	2170	5.00			3.59	
PCB-152	11.1	5.00			1.82	
PCB-153	8950	5.00			1.83	
PCB-154	92.0	5.00			2.78	
PCB-155	ND	5.00	4.57		1.45	
PCB-156	812	5.00			1.74	
PCB-157	323	5.00			1.17	
PCB-158/160	1360	9.99			1.99	
PCB-159	ND	5.00	6.18		1.20	
PCB-166	37.5	5.00			0.920	
PCB-167	553	5.00			1.65	
PCB-168	ND	5.00		6.91	0.933	
PCB-169	ND	5.00		3.99	1.12	
PCB-170	3310	5.00			1.38	
PCB-171	876	5.00			1.61	
PCB-172	602	5.00			1.46	
PCB-173	85.6	5.00			1.49	
PCB-174	3650	5.00			1.42	
PCB-175	117	5.00			3.15	
PCB-176	381	5.00			2.17	
PCB-177	2020	5.00			1.34	
PCB-178	588	5.00			2.25	
PCB-179	1310	5.00			1.57	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: AS-CB-UNR-20150120-W

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 14:00

Sample Data
Matrix: Effluent
Sample Size: 1.00 L

Laboratory Data
Lab Sample: 1500108-04 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0099 Date Extracted: 26-Jan-2015 10:29
Date Analyzed : 27-Jan-15 18:10 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	7320	5.00			0.610	
PCB-181	ND	5.00	2.72		1.01	
PCB-182/187	3670	9.99			6.20	
PCB-183	1630	5.00			3.29	
PCB-184	9.58	5.00			1.25	
PCB-185	389	5.00			1.47	
PCB-186	ND	5.00	1.60		2.43	
PCB-188	8.36	5.00			1.08	
PCB-189	125	5.00			1.49	
PCB-190	584	5.00			1.70	
PCB-191	113	5.00			1.96	
PCB-192	ND	5.00	2.11		1.69	
PCB-193	294	5.00			1.46	
PCB-194	1510	5.00			1.71	
PCB-195	731	5.00			1.47	
PCB-196/203	1810	9.99			6.35	
PCB-197	61.2	5.00			1.80	
PCB-198	103	5.00			3.78	
PCB-199	1840	5.00			4.05	
PCB-200	230	5.00			1.75	
PCB-201	242	5.00			1.02	
PCB-202	407	5.00			1.55	
PCB-204	ND	5.00	3.38		1.48	
PCB-205	76.7	5.00			1.53	
PCB-206	1000	5.00			1.32	
PCB-207	105	5.00			1.51	
PCB-208	245	5.00			1.34	
PCB-209	204	5.00			1.86	
Total monoCB	41.5	5.00				
Total diCB	1830	5.00				
Total triCB	2790	5.00				
Total tetraCB	8230	5.00				
Total pentaCB	36500	5.00				
Total hexaCB	52900	5.00				
Total heptaCB	27100	5.00				

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
Total octaCB	7010	5.00				
Total nonaCB	1350	5.00				
DecaCB	204	5.00				
Total PCB	138000	5.00				

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

Sample ID: AS-CB-UNR-20150120-W

EPA Method 1668C

Client Data
Name: Leidos
Project: 1400647
Date Collected: 20-Jan-2015 14:00

Sample Data
Matrix: Effluent
Sample Size: 1.00 L

Laboratory Data
Lab Sample: 1500108-04 Date Received: 21-Jan-2015 8:57
QC Batch: B5A0099 Date Extracted: 26-Jan-2015 10:29
Date Analyzed : 27-Jan-15 18:10 Column: ZB-1 Analyst: DMS

	Labeled Standard	%R	LCL-UCL	Qualifiers
IS	13C-PCB-1	76.3	5 -145	
	13C-PCB-3	75.3	5 -145	
	13C-PCB-4	81.5	5 -145	
	13C-PCB-11	87.9	5 -145	
	13C-PCB-9	84.9	5 -145	
	13C-PCB-19	73.2	5 -145	
	13C-PCB-28	75.4	5 -145	
	13C-PCB-32	77.6	5 -145	
	13C-PCB-37	84.2	5 -145	
	13C-PCB-47	90.3	5 -145	
	13C-PCB-52	89.6	5 -145	
	13C-PCB-54	76.7	5 -145	
	13C-PCB-70	88.4	5 -145	
	13C-PCB-77	84.8	10 -145	
	13C-PCB-80	90.8	10 -145	
	13C-PCB-81	85.6	10 -145	
	13C-PCB-95	94.2	10 -145	
	13C-PCB-97	98.7	10 -145	
	13C-PCB-101	90.0	10 -145	
	13C-PCB-104	91.7	10 -145	
	13C-PCB-105	91.4	10 -145	
	13C-PCB-114	94.1	10 -145	
	13C-PCB-118	87.1	10 -145	
	13C-PCB-123	92.0	10 -145	
	13C-PCB-126	88.7	10 -145	
	13C-PCB-127	89.2	10 -145	
	13C-PCB-138	83.3	10 -145	
	13C-PCB-141	85.2	10 -145	
	13C-PCB-153	88.5	10 -145	
	13C-PCB-155	81.7	10 -145	
	13C-PCB-156	77.8	10 -145	
	13C-PCB-157	75.4	10 -145	
	13C-PCB-159	81.0	10 -145	
	13C-PCB-167	77.1	10 -145	
	13C-PCB-169	62.7	10 -145	
	13C-PCB-170	59.8	10 -145	
	13C-PCB-180	68.8	10 -145	
	13C-PCB-188	74.5	10 -145	
	13C-PCB-189	48.7	10 -145	
	13C-PCB-194	81.5	10 -145	
	13C-PCB-202	57.6	10 -145	
	13C-PCB-206	84.0	10 -145	
	13C-PCB-208	80.1	10 -145	
	13C-PCB-209	85.8	10 -145	
CRS	13C-PCB-79	100	10 -145	
	13C-PCB-178	91.1	10 -145	

RL - Reporting limit
EMPC - Estimated maximum possible concentration
DL - Sample specifc estimated detection limit
MDL - Method detection limit
LCL-UCL- Lower control limit - upper control limit

DATA QUALIFIERS & ABBREVIATIONS

B	**This compound was also detected in the method blank.**
D	**Dilution**
E	**The amount detected is above the High Calibration Limit.**
H	**Recovery was outside laboratory acceptance limits.**
I	**Chemical Interference**
J	**The amount detected is below the Low Calibration Limit.**
P	**The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.**
*****	**See Cover Letter**
Conc.	**Concentration**
DL	**Sample-specific estimated detection limit**
MDL	**Method Detection Limit as determined by 40 CFR 136, Appendix B.**
EMPC	**Estimated Maximum Possible Concentration**
M	**Estimated Maximum Possible Concentration (CA Region 2)**
NA	**Not applicable**
RL	**Reporting Limit – concentrations that correspond to low calibration point**
ND	**Not Detected**
TEQ	**Toxic Equivalency**

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

Accrediting Authority	Certificate Number
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2014022
Michigan Department of Natural Resources	9932
Nevada Division of Environmental Protection	CA004132015-1
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
North Carolina Department of Health & Human Services	06700
Oregon Laboratory Accreditation Program	4042-003
Pennsylvania Department of Environmental Protection	011
South Carolina Department of Health	87002001
Tennessee Department of Environment & Conservation	TN02996
Texas Commission on Environmental Quality	T104704189-15-6
Virginia Department of General Services	3138
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

CHAIN OF CUSTODY

Vista

FOR LABORATORY USE ONLY

Laboratory Project ID: 1500108

Storage ID: WR-2

Storage Secured: Yes ☑ No ☐

Temp: 1.9 °C

TAT: (Check One):

Standard: ● 21 Days

Rush (surcharge may apply):

○ 14 days ○ 7 days Specify:___

Project I.D.: 1400647 P.O.#: P010163569 Sampler: M. Ivancevich, J. Wartes (Name)

Invoice to: Name: Christine Nancarrow Company: Leidos Address: 18912 N. Creek Pkwy Ste 101 City: Bothell, WA State: Zip: 98011 Ph#: 206.300.2149 Fax#:

Relinquished by: (Signature and Printed Name) Melissa Ivancevich Date: 01/20/15 Time: 1650 Received by: (Signature and Printed Name) Date: 1/21/15 Time: 0902

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

See "Sample Log-in Checklist" for additional sample information

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 • Fax (916) 673-0106

ATTN:

Method of Shipment: FedEx

Tracking No.: 806459792334

Add Analysis(es) Requested

Sample ID	Date	Time	Location/Sample Description	Container(s) Quantity	Type	Matrix	EPA1613 2378-TCDD	EPA1613 2378-TCDD/TCDF	EPA1613 PCDD/PCDF	EPA8290 2378-TCDD	EPA8290 2378-TCDD/TCDF	EPA8290 PCDD/PCDF	EPA8280 2378-TCDD	EPA8280 2378-TCDD/TCDF	EPA8280 PCDD/PCDF	EPA1668 TOTALS	EPA1668 COPLANAR PCB's	EPA1668 209 CONGENERS	EPA1668 PBDE	EPA1614 PAH	CARB429 WHO-29
AS-CB-02-20150120-S	01/20/15	1100	Alaska St. Reload	1	G	SD	✓									✓	✓				
AS-CB-05-20150120-S	01/20/15	1245	Alaska St. Reload	1	G	SD	✓									✓	✓				
AS-CB-UNK-20150120-W	01/20/15	1400	Alaska St. Reload	4	A	EF	✓									✓	✓				
AS-CB-UNK-20150120-S	01/20/15	1430	Alaska St. Reload	1	G	SD	✓									✓	✓				

Special Instructions/Comments:

SEND DOCUMENTATION AND RESULTS TO:

Name: Same as above
Company:
Address:
City: State: Zip:
Phone: Fax:
Email: nancarrowc@leidos.com

Container Types: A = 1 Liter Amber, G = Glass Jar
P = PUF, T = MM5 Train, O= Other

*Bottle Preservative Type: T = Thiosulfate,
O = Other

Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum AQ = Aqueous, O = Other

WHITE - ORIGINAL YELLOW - ARCHIVE PINK - COPY

SAMPLE LOG-IN CHECKLIST

Vista Analytical Laboratory

Vista Project #: 1500108 **TAT** Std

Samples Arrival:	**Date/Time** 1/21/15 0857		**Initials:** BLB		**Location:** WR-2 **Shelf/Rack:** NA		
Logged In:	**Date/Time** 1/21/15 1609		**Initials:** BLB		**Location:** WR-2 **Shelf/Rack:** B4/F6		
Delivered By:	(FedEx)	UPS	On Trac	DHL	Hand Delivered	Other	
Preservation:	(Ice)	Blue Ice		Dry Ice	None		
Temp °C: 1.8 (uncorrected) **Temp °C:** 1.9 (corrected)		**Time:** 0902			**Thermometer ID:** IR-1		

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill Trk # 806459792334	✓		
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓

$Na_2S_2O_3$ Preservation Documented? NA	COC	Sample Container	None		
Shipping Container	(Vista)	Client	(Retain)	Return	Dispose

Comments:

Sample Login 11/2013 ckt

EXTRACTION INFORMATION

Process Sheet

Workorder: 1500108

Prep Expiration: 01/20/2016
Client: Leidos

Workorder Due: 11-Feb-15 00:00

TAT: 21

Method: **1613 Full List**
Matrix: **Solid**
Client Matrix: Sediment
Also run: **Percent Solids**

Prep Batch: BSA0101

Prep Data Entered: M.T 1/29/15
Date and Initials

Initial Sequence: SSA0047

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1500108-01	☑	AS-CB-02-20150120-S	21-Jan-15 08:57	WR-2 F-6	
1500108-02	☑	AS-CB-05-20150120-S	21-Jan-15 08:57	WR-2 F-6	
1500108-03	☑	AS-CB-UNR-20150120-S	21-Jan-15 08:57	WR-2 F-6	

Vista PM:Martha Maier

Vial Box ID: Strange Clouds

Sample Reconciled By: B. Roberts 1/29/15

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B5A0100

Analyst: B.Roberts **Test Code:** %Moist/%Solids

Analyte: Dried at 110°C+/-5°C **Units:** %

~~INST~~ HRMS-2

Date/Time IN: 1/26/15 14:37 Date/Time OUT 1/27/15 1020

	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	BR 1/26/15	BR 1/27/15						
Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	1400970-02		Sample	1.32	15.18	10.02						
	1400970-03		Sample	1.33	12.96	7.51						
	1400970-04		Sample	1.29	12.33	4.60						
	1500108-01		Sample	1.31	11.84	5.42						
	1500108-02		Sample	1.31	9.61	4.35						
	1500108-03		Sample	1.32	18.69	12.27						
	1500116-01		Sample	1.32	11.96	4.41						
	1500116-02		Sample	1.31	10.56	4.05						

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B5A0100

Analyst: B.Roberts **Test Code:** %Moist/%Solids

Analyte: Dried at 110°C+/-5°C **Units:** %

HRMS-2

Date/Time IN:	Date/Time OUT
1/26/15 1437	1/27/15 1020

	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	BR 1/26/15	SR 1/27/15						
Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	1400970-02		Sample	1.3200	15.1800	10.0200	8.7000	62.77				
	1400970-03		Sample	1.3300	12.9600	7.5100	6.1800	53.14				
	1400970-04		Sample	1.2900	12.3300	4.6000	3.3100	29.98				
	1500108-01		Sample	1.3100	11.8400	5.4200	4.1100	39.03				
	1500108-02		Sample	1.3100	9.6100	4.3500	3.0400	36.63				
	1500108-03		Sample	1.3200	18.6900	12.2700	10.9500	63.04				
	1500116-01		Sample	1.3200	11.9600	4.4100	3.0900	29.04				
	1500116-02		Sample	1.3100	10.5600	4.0500	2.7400	29.62				

Matrix: Solid

Method: 1613 Full List

PREPARATION BENCH SHEET

B5A0101

Prepared using: HRMS - Soxhlet

Chemist: S.Roughton

Prep Date/Time: 27-Jan-15 11:06

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	C5A0103 AP CHEM/ DATE	C5A0104 ABSG CHEM/ DATE	C5A104 AA CHEM/ DATE	C5A105 Florisil CHEM/ DATE	RS CHEM/WIT DATE
☐	B5A0101-BLK1	(10.00)	10.00	SR 1/27/15	M.T 1/28/15	M.T 1/28/15	M.T 1/29/15	M.T 1/29/15	M.T 1/29/15	M.T 1/29/15
☐	B5A0101-BS1	↓	↓	↓	↓	↓	↓	↓	↓	↓
☐	1400970-02	15.93	16.07 SR 1/26/15							
☐	1400970-03	18.82	19.05							
☐	1400970-04	33.35	33.39							
☐	1500108-01	25.62	25.91							
☐	1500108-02	27.30	27.43							
☐	1500108-03	15.86	15.93							
☐	1500116-01	34.43	34.48							
☐	1500116-02	33.76	33.89	↓	↓	↓	↓	↓	↓	↓

IS Name (V8)	NS Name (V13)	CRS Name (V8)	RS Name (V8)	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: SR 1/27/15
PCDD/F 14H2704, 10uL	PCDD/F 13L1101, 10uL	PCDD/F 14H2705, 10uL	PCDD/F 14H2706, 10uL	Start Date/Time	SOLV: Tol	Chemist/Date: H SR 1/27/15
PCB	PCB	PCB	PCB	1/27/15 1450	Other N/A	Check In:
PAH	PAH	PAH	PAH	Stop Date/Time	Final Volume(s) 20uL	Chemist/Date:
				1/28/15 0710	C14	Balance ID: HRMS-2

Comments:

Process Sheet

Workorder: 1500108

Prep Expiration: 01/20/2016
Client: Leidos

Workorder Due: 11-Feb-15 00:00

TAT: 21

Method: **1613 Full List**
Matrix: **Aqueous**
Client Matrix: Effluent
Also run: **Percent Solids**

Prep Batch: BSA0110

Prep Data Entered: M.T 1/30/15
Date and Initials

Initial Sequence: _____

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1500108-04	☒	AS-CB-UNR-20150120-W	21-Jan-15 08:57	WR-2 B-4	

Vista PM:Martha Maier

Vial Box ID: _____

Sample Reconciled By: B. Smith 1 29 15

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B5A0109

Analyst: B. Smith **Test Code:** %Moist/%Solids

Analyte: Dried at 110°C+/-5°C **Units:** %

HRMS-4

Date/Time IN: 1/29/15 0851 Date/Time OUT: 1/30/15 15:15

	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	BMS 1/29/15	MTT 1/30/15			BMS 1/29/15			
Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	1400970-01RE1		Sample	1.30	14.93	1.30			5	NA	NA	0
	1500107-01		Sample	1.31	15.64	1.65			7			
	1500107-02		Sample	1.30	18.56	1.85			7			
	1500108-04RE1		Sample	~~1.29~~ 1.29	19.90	~~1.29~~ 1.29			7			
	1500109-01		Sample	1.31	16.94	1.33			7			
	1500115-01		Sample	1.30	14.97	1.32			7			
	1500116-03RE1		Sample	1.30	16.88	1.31			7			
	1500121-02		Sample	1.30	13.40	1.30			7			
	1500121-03		Sample	1.28	12.76	1.29			7			

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B5A0109

Analyst: B. Smith **Test Code:** %Moist/%Solids

Analyte: Dried at 110°C+/-5°C **Units:** %

HRMS-4

Date/Time IN:	Date/Time OUT
1/29/15 8:51	1/30/15 15:15

	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	BMS 1/29/2015	MJT 1/30/2015			BMS 1/29/2015			
Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	1400970-01RE1		Sample	1.3000	14.9300	1.3000	0.0000	0.00	5	NA	NA	0
	1500107-01		Sample	1.3100	15.6400	1.6500	0.3400	2.37	7	NA	NA	0
	1500107-02		Sample	1.3000	18.5600	1.8500	0.5500	3.19	7	NA	NA	0
	1500108-04RE1		Sample	1.2900	19.4000	1.2900	0.0000	0.00	7	NA	NA	0
	1500109-01		Sample	1.3100	16.9400	1.3300	0.0200	0.13	7	NA	NA	0
	1500115-01		Sample	1.3000	14.4700	1.3200	0.0200	0.15	7	NA	NA	0
	1500116-03RE1		Sample	1.3000	16.8800	1.3100	0.0100	0.06	7	NA	NA	0
	1500121-02		Sample	1.3000	13.4000	1.3000	0.0000	0.00	7	NA	NA	0
	1500121-03		Sample	1.2800	12.7600	1.2900	0.0100	0.09	7	NA	NA	0

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 1613 Full List
Method: 1613 2.3.7.8s Only
Method: 1613 TCDD Only

B5A0110

Chemist: B. Smith

Prep Date/Time: 29-Jan-15 08:12

Prepared using: HRMS - SPE Extraction

							NA	C5A0115	C5A0115	C5A0110	
C	VISTA Sample ID	Bottle + Sample (mL)	Bottle Only (mL)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
☐	B5A0110-BLK1	NA	NA	1.000	BMS SH 1/29/15	MT BT 1/30/15	NA	M.T 1/30/15	M.T 1/30/15	M.T 1/30/15	M.T SH 1/30/15
☐	B5A0110-BS1	↓	↓	↓							
☐	1400970-01	1509.29	502.64	1.00665							
☐	1500107-01	1312.40	417.10	0.8953							
☐	1500107-02	1334.31	416.34	0.91797							
☐	1500108-04	1505.08	498.60	1.00648							
☐	1500109-01	1515.57	497.18	1.01839							
☐	1500115-01	1523.25	501.07	1.02218							
☐	1500116-03	1503.87	502.52	1.00135							
☐	1500121-02	1544.00	506.73	1.03727							
☐	1500121-03	1482.75	517.34	0.96541							

IS Name (V8)	NS Name (V13)	CRS Name (V8)	RS Name (V8)	Cycle Time	APP: SEFUN SOX (SDS)	Check Out:
PCDD/F 14H2704, 10µL	PCDD/F 13C4110, 10µL	PCDD/F 14H2705, 10mL	PCDD/F 14H2706, 10µL	Start Date/Time 1/29/15 1602	SOLV: Tol	Chemist/Date: BMS 1/29/15
PCB	PCB	PCB	PCB	Stop Date/Time 1/30/15 0825	Other NA	Check In: Chemist/Date: empty 2
PAH	PAH	PAH	PAH		Final Volume(s) 20µL C14	Balance ID: HRMS 4

Comments:

RX

Process Sheet

Workorder: 1500108

Prep Expiration: 01/20/2016
Client: Leidos

Workorder Due: 11-Feb-15 00:00
TAT: 21

Method: **1668C Full List**
Matrix: **Solid**
Client Matrix: Sediment
Also run: **Percent Solids**

Prep Batch: BSA0115

Prep Data Entered: 1/30/15 ED
Date and Initials

Initial Sequence: 55B0002E

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1500108-01 "A"	☑	AS-CB-02-20150120-S	21-Jan-15 08:57	WR-2 F-6	
1500108-02 "A"	☑	AS-CB-05-20150120-S	21-Jan-15 08:57	WR-2 F-6	
1500108-03 "A"	☑	AS-CB-UNR-20150120-S	21-Jan-15 08:57	WR-2 F-6	

2g (2X Spike)

Vista PM:Martha Maier

Vial Box ID: Grp2

Sample Reconciled By: M.T 1/29/15

Solids estimate

Batch: B5A0100

Lab ID	Analysis	% Solids	Entered	Target weight	Weigh this much
1400970-02	Percent Solids	62.77		2.00	3.19
1400970-03	Percent Solids	53.14		2.00	3.76
1400970-04	Percent Solids	29.98		2.00	6.67
1500108-01	Percent Solids	39.03		2.00	5.12
1500108-02	Percent Solids	36.63		2.00	5.46
1500108-03	Percent Solids	63.04		2.00	3.17
1500116-01	Percent Solids	29.04		2.00	6.89
1500116-02	Percent Solids	29.62		2.00	6.75

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B5A0100

Analyst: B.Roberts **Test Code:** %Moist/%Solids

Analyte: Dried at 110°C+/-5°C **Units:** %

HRMS-2

Date/Time IN:	Date/Time OUT
1/26/15 1437	1/27/15 1020

	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	BR 1/26/15	SR 1/27/15						
Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	1400970-02		Sample	1.3200	15.1800	10.0200	8.7000	62.77				
	1400970-03		Sample	1.3300	12.9600	7.5100	6.1800	53.14				
	1400970-04		Sample	1.2900	12.3300	4.6000	3.3100	29.98				
	1500108-01		Sample	1.3100	11.8400	5.4200	4.1100	39.03				
	1500108-02		Sample	1.3100	9.6100	4.3500	3.0400	36.63				
	1500108-03		Sample	1.3200	18.6900	12.2700	10.9500	63.04				
	1500116-01		Sample	1.3200	11.9600	4.4100	3.0900	29.04				
	1500116-02		Sample	1.3100	10.5600	4.0500	2.7400	29.62				

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B5A0100

Analyst: B.Roberts **Test Code:** %Moist/%Solids

Analyte: **Units:** %

Dried at 110°C+/-5°C

~~INST~~ HRMS-2

Date/Time IN: 1/26/15 14:37 Date/Time OUT 1/27/15 1020

	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	BR 1/26/15	SR 1/27/15						
Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	1400970-02		Sample	1.32	15.18	10.02						
	1400970-03		Sample	1.33	12.96	7.51						
	1400970-04		Sample	1.29	12.33	4.60						
	1500108-01		Sample	1.31	11.84	5.42						
	1500108-02		Sample	1.31	9.61	4.35						
	1500108-03		Sample	1.32	18.69	12.27						
	1500116-01		Sample	1.32	11.96	4.41						
	1500116-02		Sample	1.31	10.56	4.05						

PREPARATION BENCH SHEET

Matrix: Solid

Method: 1668C Full List

B5A0115

Prepared using: HRMS - Soxhlet

Chemist: M.T

Prep Date/Time: 29-Jan-15 10:19

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	~~PS~~ ~~CRS~~ CHEM/WIT DATE	CSA0113 AP CHEM/ DATE	CSA0114 ABSG CHEM/ DATE	N/A AA CHEM/ DATE	N/A Florisil CHEM/ DATE	RS CHEM/WIT DATE
☐	B5A0115-BLK1	NA	~~10.00~~ 6.00 M.T 2/11/15	M.T ES 1/29/15	ES SR 1/30/15	ES 1/30/15	ES 1/30/15	NA	NA	ES SR 1/30/15
☐	B5A0115-BS1	↓	↓							
☐	1400970-02RE1 (A)	3.19	3.23							
☐	1400970-03RE1	3.76	3.84							
☐	1400970-04RE1 (A)	6.67	6.69							
☐	1500108-01RE1	5.12	5.16							
☐	1500108-02RE1 (A)	5.46	5.56							
☐	1500108-03RE1 (A)	3.17	3.18							
☐	1500116-01RE1 (B) (A)	6.89	6.93							
☐	1500116-02RE1 (C) (A)	6.75	6.98							

(A) Precipitate present at final volume. ES 1/30/15
(B) Crystals present at final volume. ES 1/30/15
(C) FV. of ~160µL. ES 1/30/15

IS Name 2X (V1) NS Name 2X (V2) ~~PS~~ CRS Name 2X RS Name 2X

~~PCDD/F~~ PCB 14D2901, 20µL ~~PCDD/F~~ PCB 14F1301, 20µL PCDD/F (V2) PCDD/F (V2)

PCB PCB PCB 14D2903, 20µL PCB 14D2904, 20µL

PAH PAH PAH PAH

Cycle Time
Start Date/Time 1/29/15 15:35
Stop Date/Time 1/30/15 7:38

APP: SEFUN SOX (SDS)
SOLV: TOL
Other NA
Final Volume(s) 100 µL C9

Check Out: Chemist/Date: M.T 1/29/15
Check In: Chemist/Date: M.T 1/29/15
Balance ID: HRMS-2

Comments:

Process Sheet

Workorder: 1500108

Prep Expiration: 01/20/2016
Client: Leidos

Workorder Due: 11-Feb-15 00:00

TAT: 21

Method: **1668C Full List**
Matrix: **Aqueous**
Client Matrix: Effluent
Also run: **Percent Solids**

Prep Batch: BSA0099

Prep Data Entered: M.T 1/27/15
Date and Initials

Initial Sequence: _____

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1500108-04 "C"	☑	AS-CB-UNR-20150120-W	21-Jan-15 08:57	WR-2 B-4	

Vista PM:Martha Maier

Vial Box ID: WAO BRAIN

Sample Reconciled By: M.T 1/30/15

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B5A0098

Analyst: MJT **Test Code:** %Moist/%Solids

Analyte: Dried at 110°C+/-5°C **Units:** %

INST HRMS-4

Date/Time IN:	Date/Time OUT
1/26/15 11:05	1/27/15 8:35

	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	MJT 1/26/2015	MJT 1/27/2015			MJT 1/26/2015			
Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	1400970-01		Sample	1.3300	11.0700	1.3300	0.0000	0.00	6	2	10	0
	1500084-01RE1		Sample	1.3200	11.4000	1.3200	0.0000	0.00	6	2	10	0
	1500084-02RE1		Sample	1.3200	12.0800	1.3200	0.0000	0.00	6	2	10	0
	1500108-01		Sample	1.3000	12.2300	1.3000	0.0000	0.00	7	2	10	0
	1500116-03		Sample	1.3200	11.3900	1.3300	0.0100	0.10	7	2	10	0
	B5A0099-MB		QC	NA	NA	NA	NA	NA	5	2	10	0
	B5A0099-OPR		QC	NA	NA	NA	NA	NA	5	2	10	0

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B5A0098

Analyst: MJT **Test Code:** %Moist/%Solids

Analyte: Dried at 110°C+/-5°C **Units:** %

INST HRMS-4

Date/Time IN: 1/26/15 ~~0:00~~ 11:05 Date/Time OUT 1/27/15 8:35

	B	C	D	E	F	G	H	K	M	N	O	P
				Intial and Date:	MJT 1/26/2015	MJT 1/27/15			MJT 1/26/2015			
Pan #	SampID	Source ID	SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	1400970-01		Sample	1.33	11.07	1.33			6	2	10	0
	1500084-01RE1		Sample	1.32	11.40	1.32			6	2		0
	1500084-02RE1		Sample	1.32	12.08	1.32			6	2		0
	~~1500108-01~~ 1500104	MJT 1/26/14	Sample	1.30	12.23	1.30			7	2		0
	1500116-03		Sample	1.32	11.39	1.33			7	2		0
	B5A0099-MB		QC						5	2		0
	B5A0099-OPR		QC						5	2		0

PREPARATION BENCH SHEET

Matrix: Aqueous
Method: 1668A Full List
Method: 1668C Full List

B5A0099

Chemist: M.T

Prep Date/Time: 26-Jan-15 10:29

Prepared using: HRMS - Separatory Funnel

							NA	C5A0086	NA	NA	
C	VISTA Sample ID	Bottle + Sample (mL)	Bottle Only (mL)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
☐	B5A0099-BLK1 (A)	NA	NA	(1.000)	M.T SR 1/26/15	M.T SR 1/26/15	NA	M.T 1/26/15	NA	NA	M.T 1/29/15
☐	B5A0099-BS1 (A)	NA	↓	↓	↓	↓	↓	↓	↓	↓	↓
☐	1400970-01	1532.91	501.63	1.03128							
☐	1500084-01	779.65	286.23	0.49342							
☐	1500084-02	766.61	281.61	0.485							
☐	1500108-04 (A)	1498.97	498.41	1.00056							
☐	1500116-03 (A) (B)	1496.20	498.89	0.9973	↓	↓	↓	↓	↓	↓	↓

IS Name	NS Name	CRS Name	RS Name	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: Chemist/Date: M.T 1/26/15
PCDD/F (V3)	PCDD/F (V8)	PCDD/F (V4)	PCDD/F (V4)	Start Date/Time	SOLV: DCM	Check In: Chemist/Date: Empty
PCB 14L2202, 10uL	PCB 14L2204, 10uL	PCB 14L2201, 10uL	PCB 14L2203, 10µL	NA	Other NA	
PAH	PAH	PAH	PAH	Stop Date/Time	Final Volume(s) 20uL C9	Balance ID: HRMS-4
				NA		

Comments:

(A) Samples formed heavy emulsions, separated in the beaker. ~~along~~ M.T 1/26/15

(B) Sample approached dryness before ABSG Column on Rotavap. M.T 1/26/15.

SAMPLE DATA

EPA Method 1613

Client ID: Method Blank Filename: 150130D3 S:5 Acq:31-JAN-15 13:10:47 ConCal: ST150130D3-1
Lab ID: B5A0101-BLK1 GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol:10.000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	*	*	n	1.17	NotF	*	*		615	2.5	0.0921
	1,2,3,7,8-PeCDD	*	*	n	0.91	NotF	*	*		625	2.5	0.0837
	1,2,3,4,7,8-HxCDD	*	*	n	1.08	NotF	*	*		595	2.5	0.143
	1,2,3,6,7,8-HxCDD	*	*	n	1.06	NotF	*	*		595	2.5	0.137
	1,2,3,7,8,9-HxCDD	*	*	n	0.93	NotF	*	*		595	2.5	0.146
	1,2,3,4,6,7,8-HpCDD	*	*	n	1.10	NotF	*	*		656	2.5	0.136
	OCDD	*	*	n	0.95	NotF	*	*		708	2.5	0.233
	2,3,7,8-TCDF	*	*	n	1.07	NotF	*	*		428	2.5	0.0497
	1,2,3,7,8-PeCDF	*	*	n	1.07	NotF	*	*		476	2.5	0.0648
	2,3,4,7,8-PeCDF	*	*	n	1.03	NotF	*	*		476	2.5	0.0655
	1,2,3,4,7,8-HxCDF	*	*	n	1.38	NotF	*	*		552	2.5	0.0449
	1,2,3,6,7,8-HxCDF	*	*	n	1.26	NotF	*	*		552	2.5	0.0472
	2,3,4,6,7,8-HxCDF	*	*	n	1.29	NotF	*	*		552	2.5	0.0541
	1,2,3,7,8,9-HxCDF	*	*	n	1.19	NotF	*	*		552	2.5	0.0705
	1,2,3,4,6,7,8-HpCDF	*	*	n	1.61	NotF	*	*		752	2.5	0.0859
	1,2,3,4,7,8,9-HpCDF	*	*	n	1.53	NotF	*	*		752	2.5	0.0823
	OCDF	*	*	n	1.10	NotF	*	*		599	2.5	0.138

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	*	*		615	0.0921
Total Penta-Dioxins	*	*		625	0.0836
Total Hexa-Dioxins	*	*		652	0.156
Total Hepta-Dioxins	*	*		656	0.136
Total Tetra-Furans	*	*		428	0.0497
Total Penta-Furans	0.0000	0.0000		506	0.0693
Total Hexa-Furans	*	*		582	0.0558
Total Hepta-Furans	*	*		782	0.0875

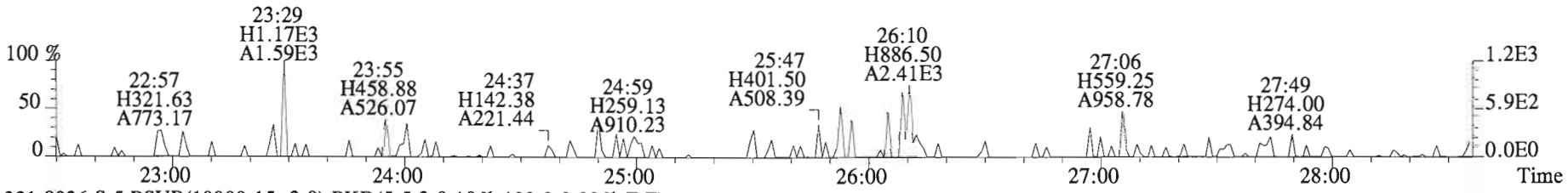
								Rec	Qual
IS	13C-2,3,7,8-TCDD	1.83e+07	0.81	y	1.06	26:56	1.021	171.02	85.5	
IS	13C-1,2,3,7,8-PeCDD	1.79e+07	0.61	y	1.18	31:24	1.190	151.16	75.6	
IS	13C-1,2,3,4,7,8-HxCDD	1.31e+07	1.26	y	0.72	34:43	1.014	159.65	79.8	
IS	13C-1,2,3,6,7,8-HxCDD	1.36e+07	1.26	y	0.74	34:50	1.017	161.30	80.7	
IS	13C-1,2,3,7,8,9-HxCDD	1.54e+07	1.28	y	0.85	35:08	1.026	158.01	79.0	
IS	13C-1,2,3,4,6,7,8-HpCDD	1.28e+07	1.05	y	0.65	38:34	1.126	171.24	85.6	
IS	13C-OCDD	2.08e+07	0.89	y	0.76	41:53	1.223	238.79	59.7	
IS	13C-2,3,7,8-TCDF	2.58e+07	0.78	y	0.92	26:10	0.992	175.13	87.6	
IS	13C-1,2,3,7,8-PeCDF	2.54e+07	1.61	y	0.92	30:15	1.147	172.32	86.2	
IS	13C-2,3,4,7,8-PeCDF	2.47e+07	1.60	y	0.93	31:08	1.180	165.87	82.9	
IS	13C-1,2,3,4,7,8-HxCDF	1.94e+07	0.52	y	0.98	33:50	0.988	172.77	86.4	
IS	13C-1,2,3,6,7,8-HxCDF	2.07e+07	0.52	y	1.08	33:57	0.991	167.67	83.8	
IS	13C-2,3,4,6,7,8-HxCDF	1.84e+07	0.53	y	1.03	34:33	1.009	156.98	78.5	
IS	13C-1,2,3,7,8,9-HxCDF	1.60e+07	0.52	y	0.86	35:31	1.037	162.46	81.2	
IS	13C-1,2,3,4,6,7,8-HpCDF	1.36e+07	0.44	y	0.72	37:22	1.091	164.83	82.4	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.35e+07	0.44	y	0.70	39:07	1.142	169.46	84.7	
IS	13C-OCDF	2.66e+07	0.89	y	0.85	42:07	1.230	274.61	68.7	
C/Up	37Cl-2,3,7,8-TCDD	8.31e+06			1.12	26:58	1.022	73.748	92.2	
RS/RT	13C-1,2,3,4-TCDD	2.02e+07	0.81	y	1.00	26:23	*	200.00		
RS	13C-1,2,3,4-TCDF	3.20e+07	0.79	y	1.00	24:58	*	200.00		
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.29e+07	0.51	y	1.00	34:15	*	200.00		

Integrations by Analyst: [signature] Date: 2/2/15

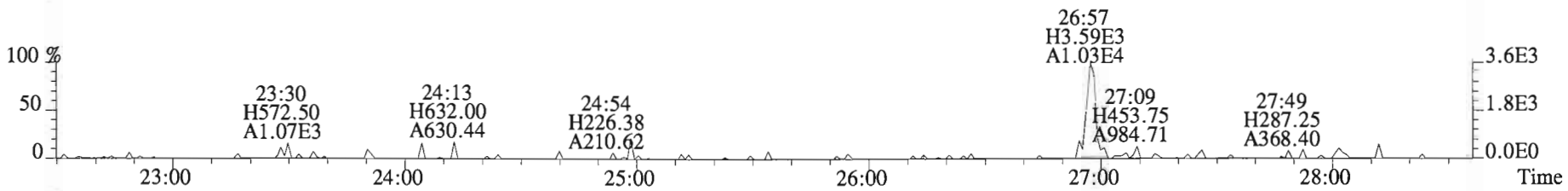
Reviewed by Analyst: [signature] Date: 2/6/15

File:150130D3 #1-551 Acq:31-JAN-2015 13:10:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BLK1 Method Blank 10 Exp:OCDD_DB5

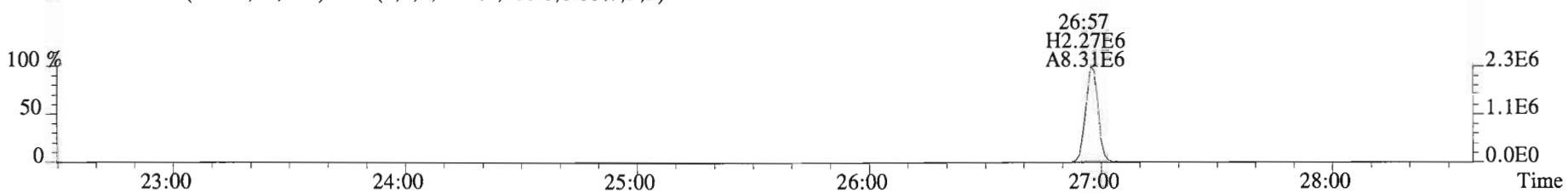
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



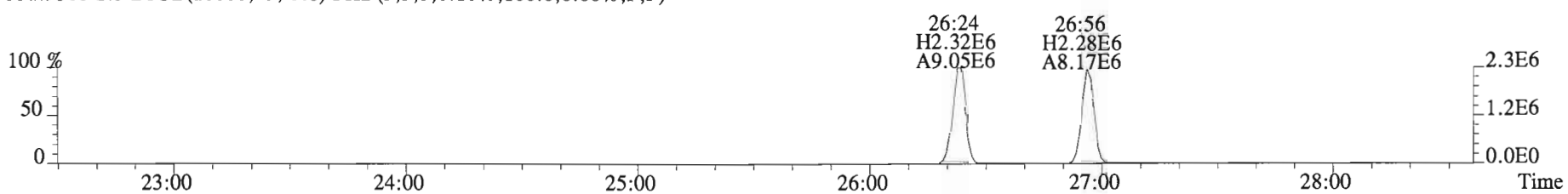
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



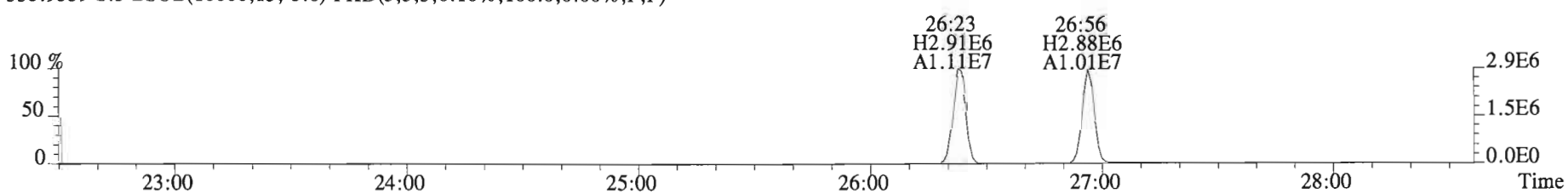
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



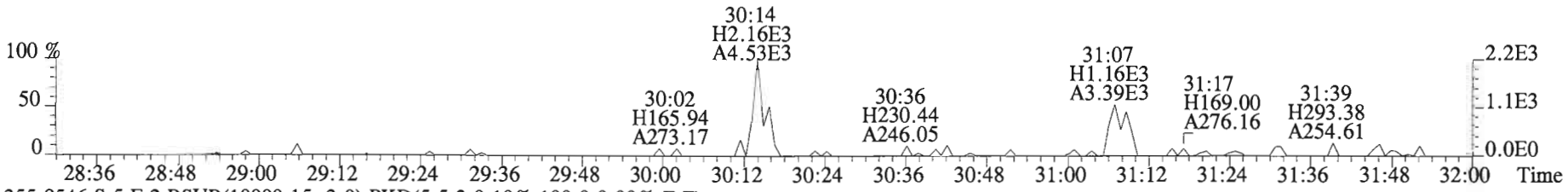
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



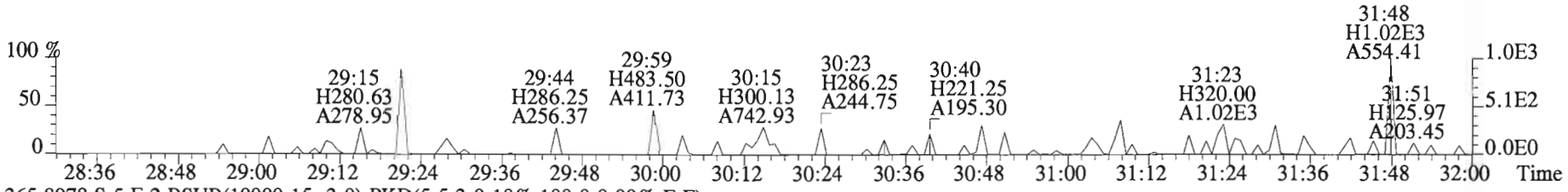
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



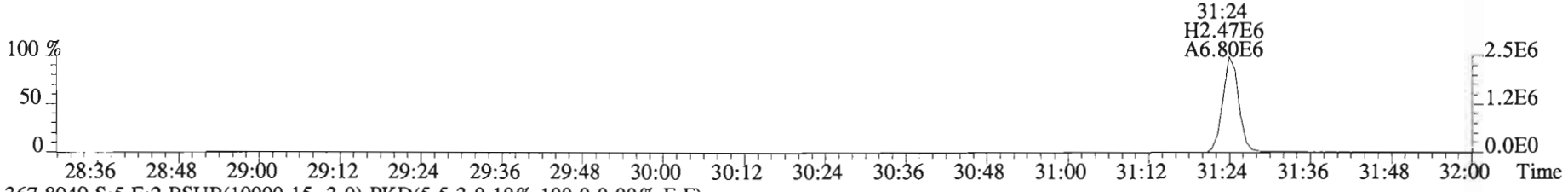
File:150130D3 #1-251 Acq:31-JAN-2015 13:10:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BLK1 Method Blank 10 Exp:OCDD_DB5
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



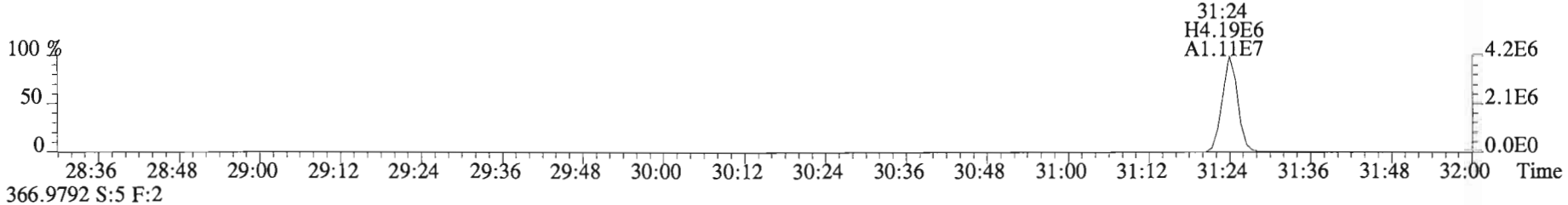
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



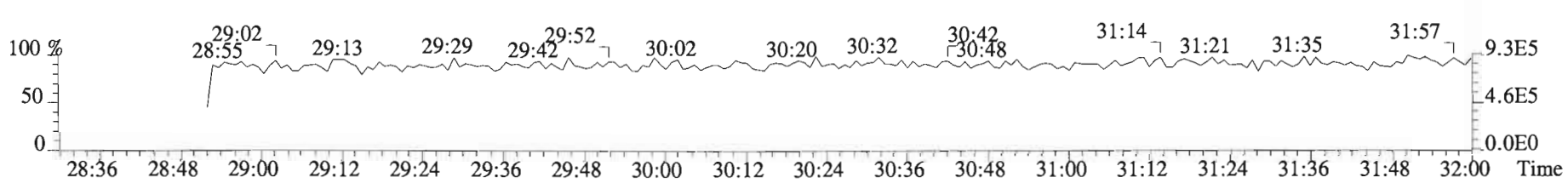
365.8978 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



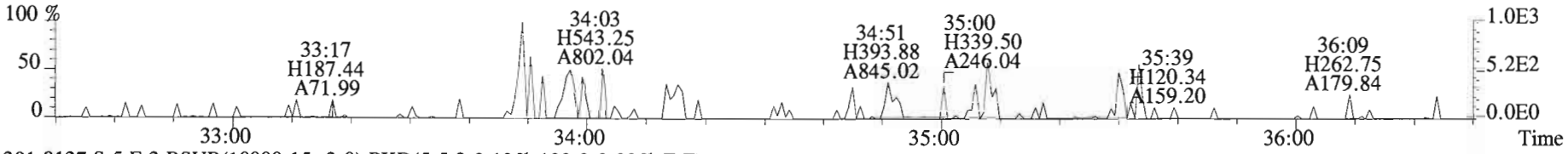
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



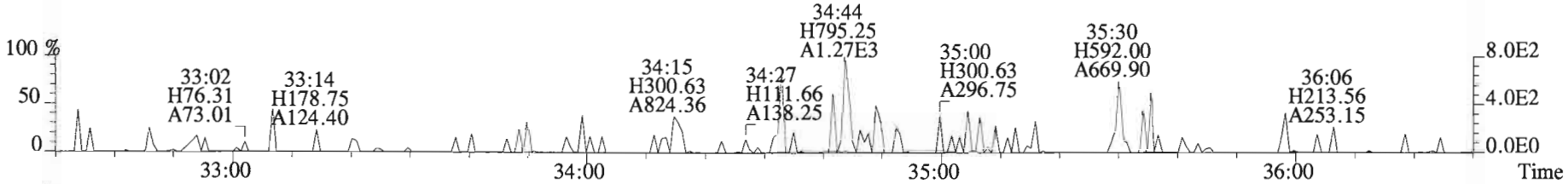
366.9792 S:5 F:2



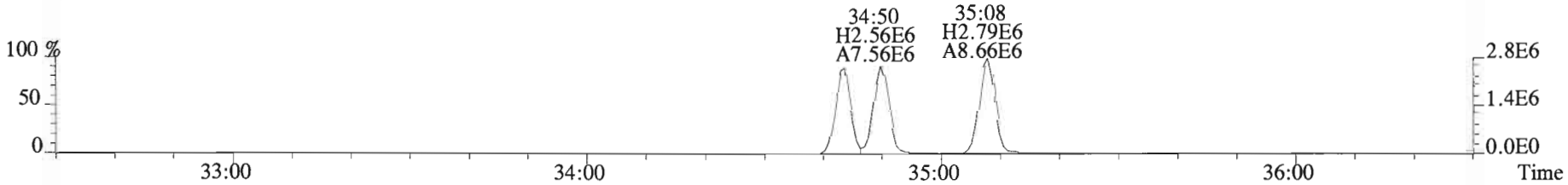
File:150130D3 #1-392 Acq:31-JAN-2015 13:10:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BLK1 Method Blank 10 Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



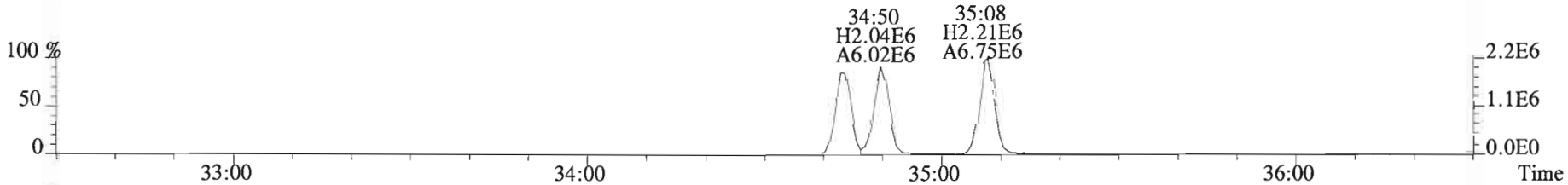
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



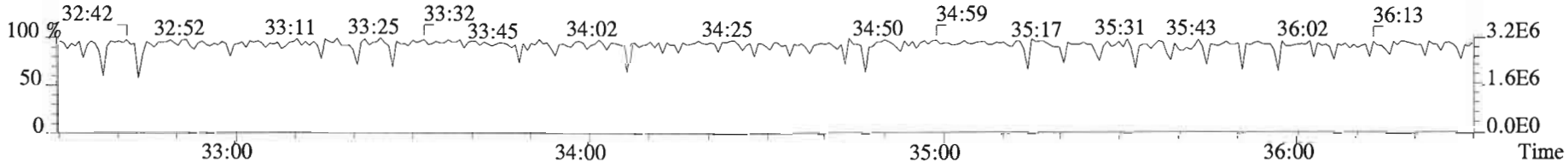
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



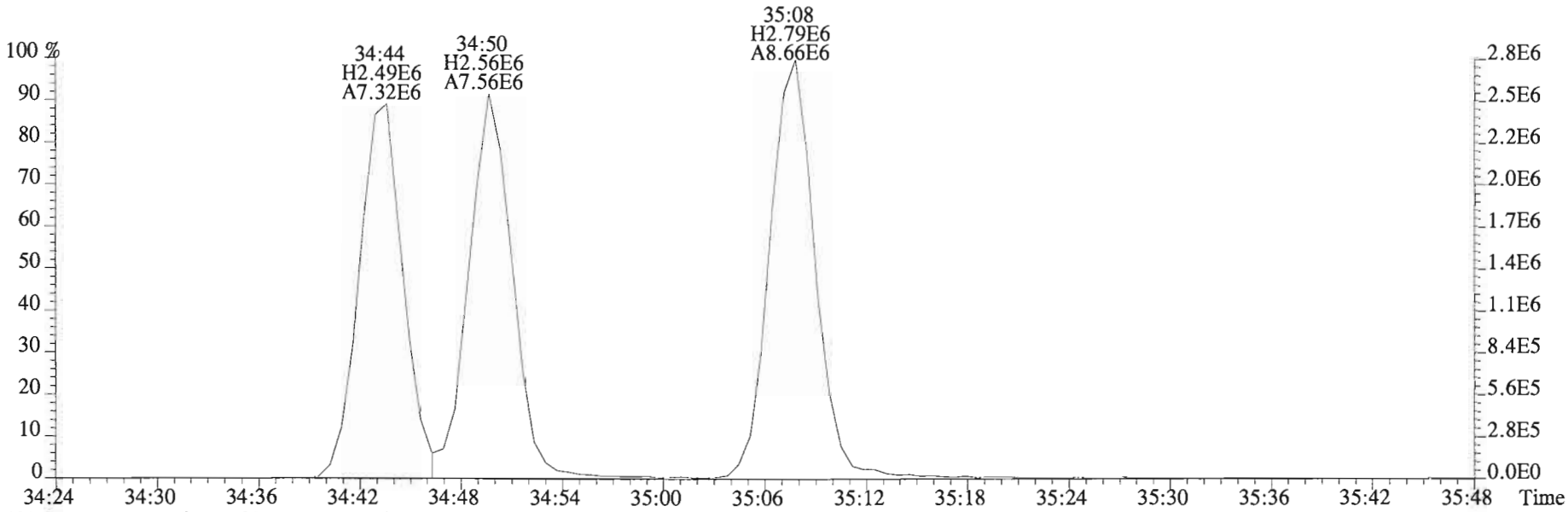
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



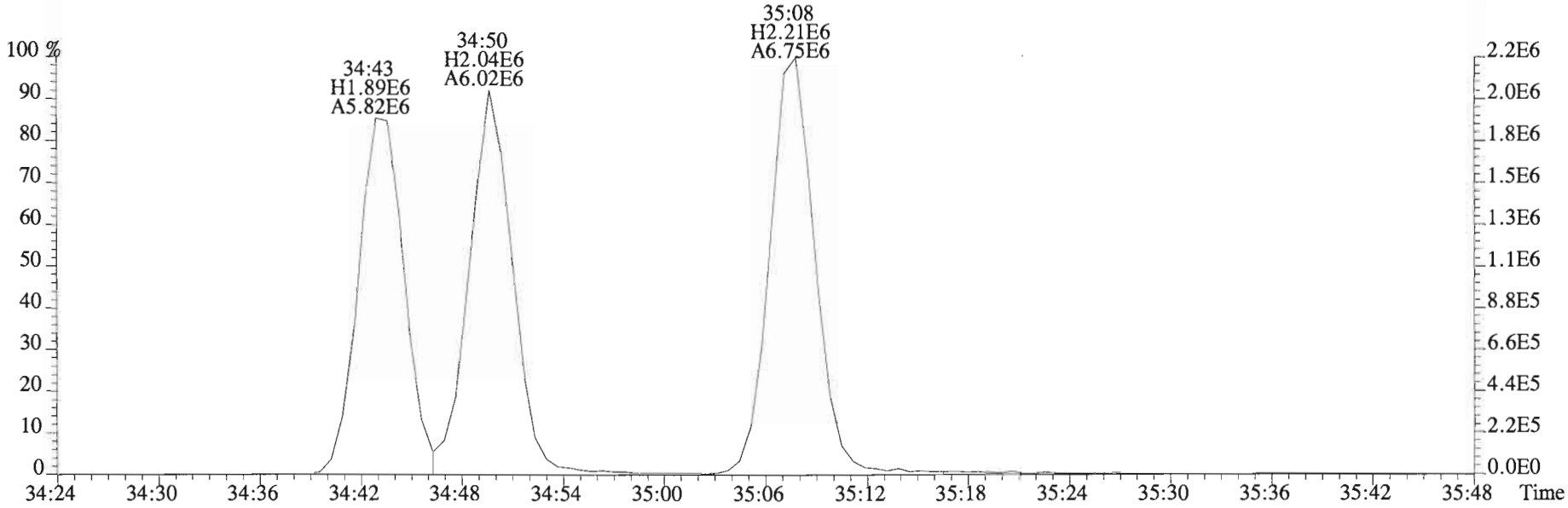
380.9760 S:5 F:3



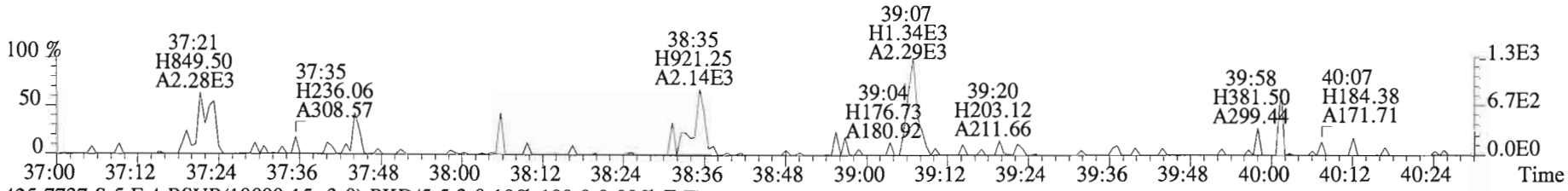
File:150130D3 #1-392 Acq:31-JAN-2015 13:10:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BLK1 Method Blank 10 Exp:OCDD_DB5
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



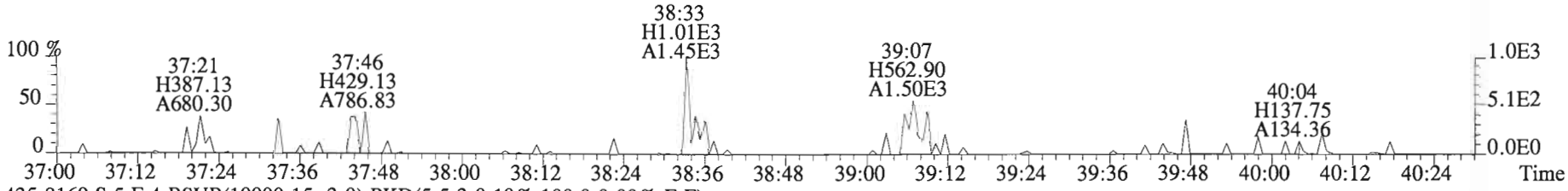
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



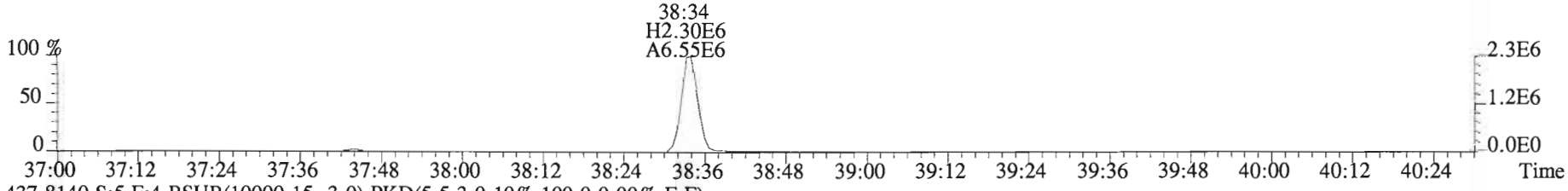
File:150130D3 #1-326 Acq:31-JAN-2015 13:10:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BLK1 Method Blank 10 Exp:OCDD_DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



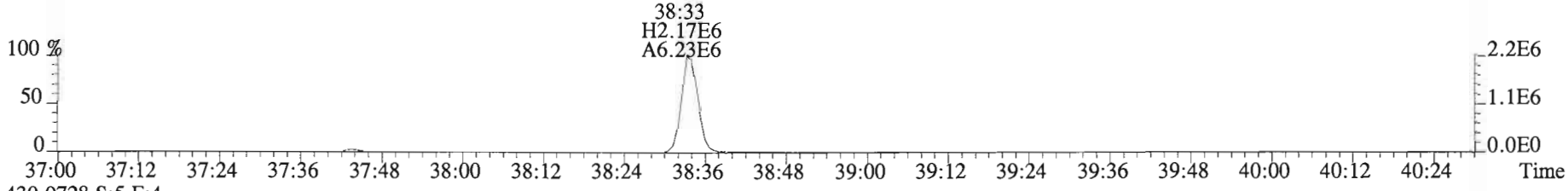
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



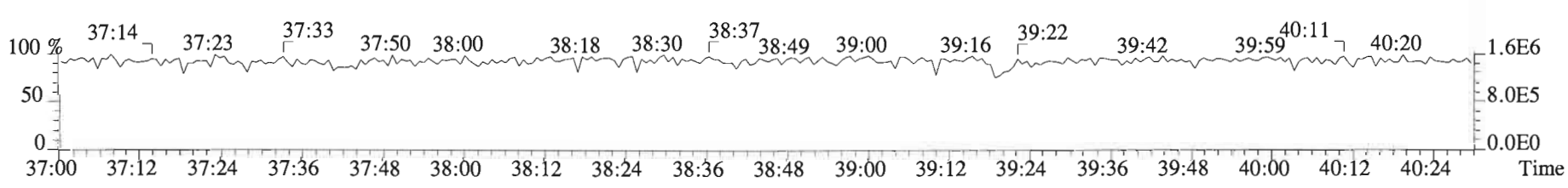
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



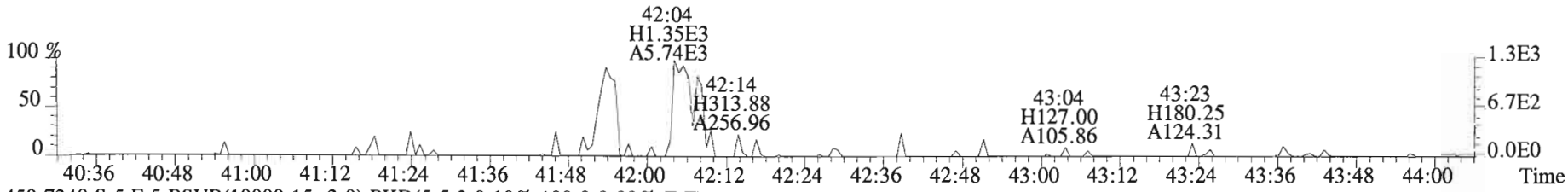
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



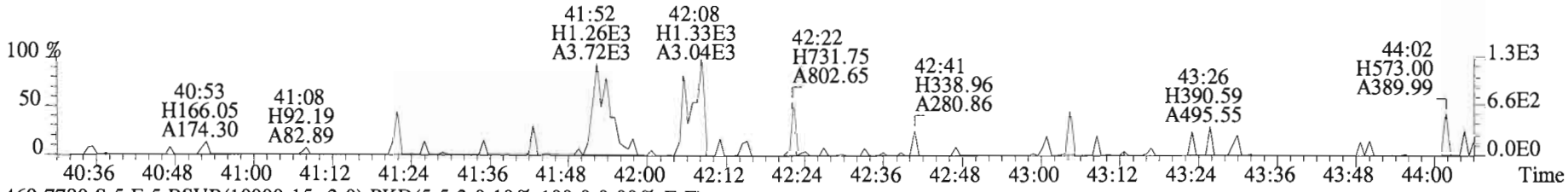
430.9728 S:5 F:4



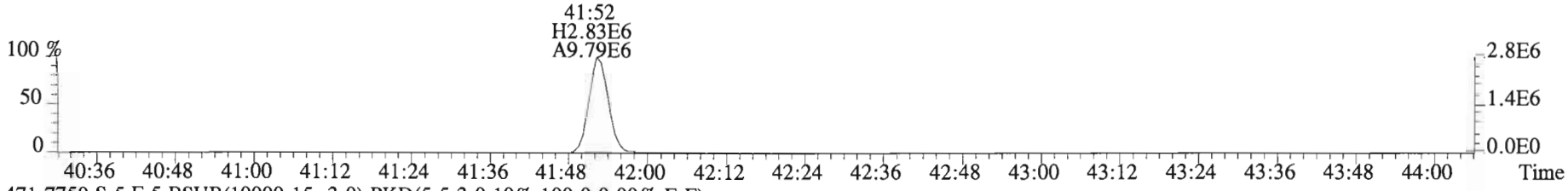
File:150130D3 #1-389 Acq:31-JAN-2015 13:10:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BLK1 Method Blank 10 Exp:OCDD_DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



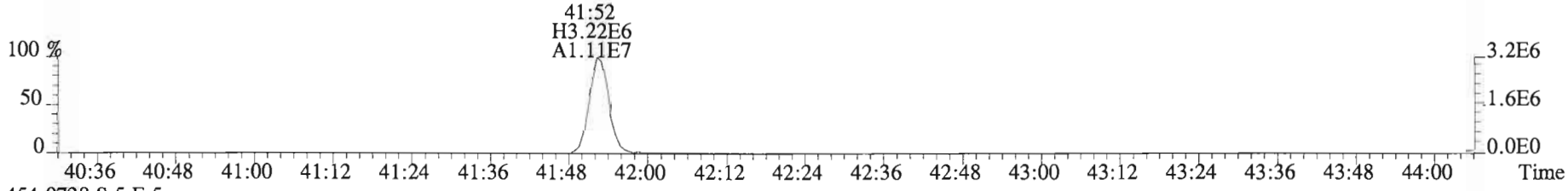
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



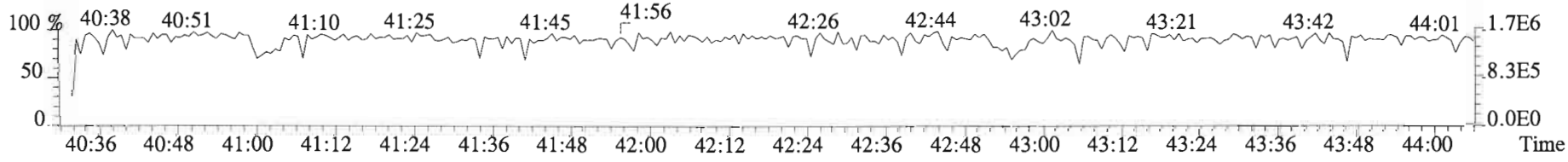
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



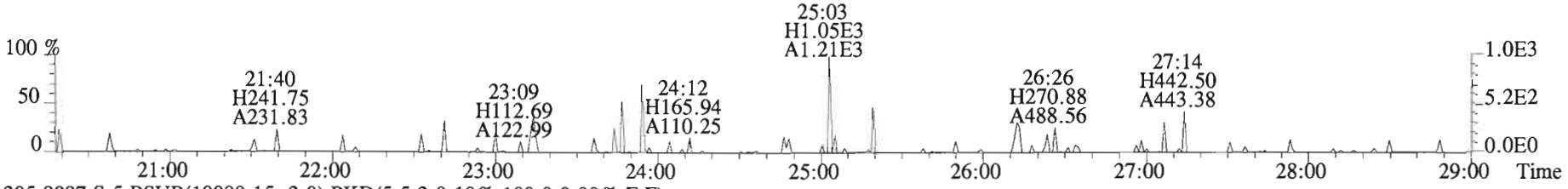
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



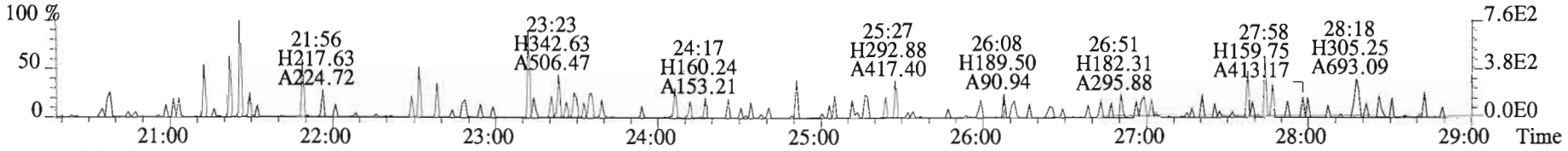
454.9728 S:5 F:5



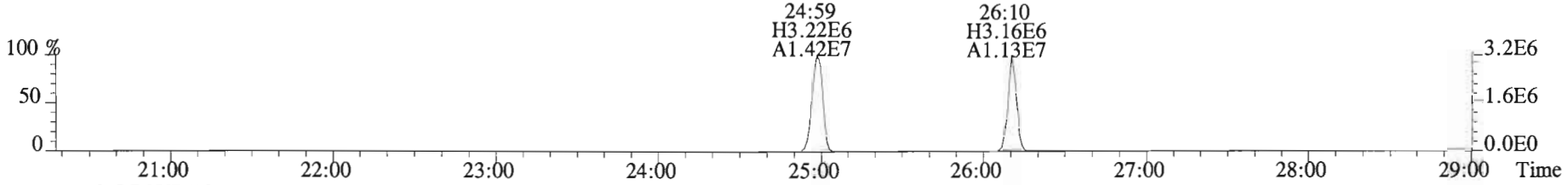
File:150130D3 #1-551 Acq:31-JAN-2015 13:10:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BLK1 Method Blank 10 Exp:OCDD_DB5
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



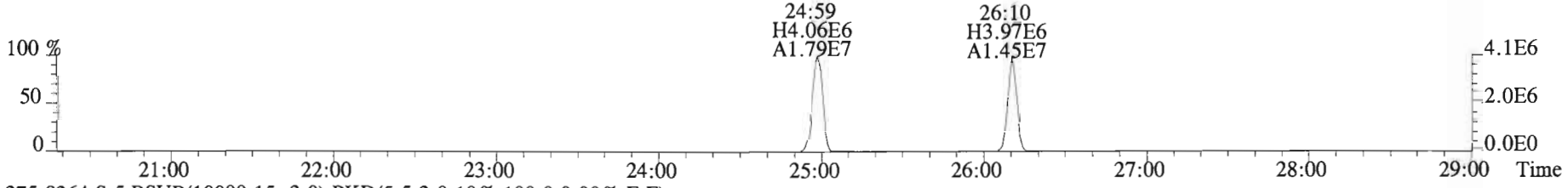
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



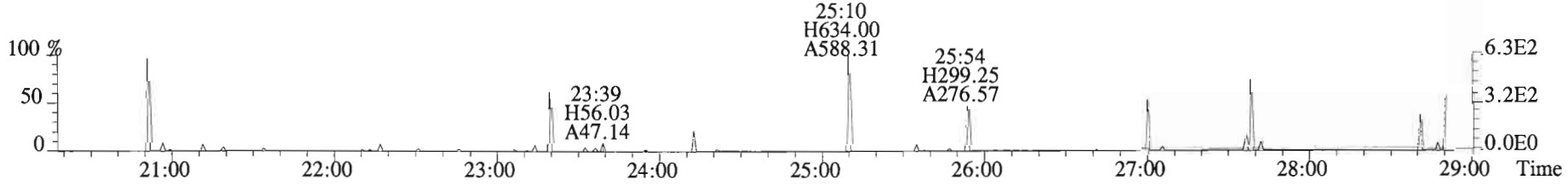
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



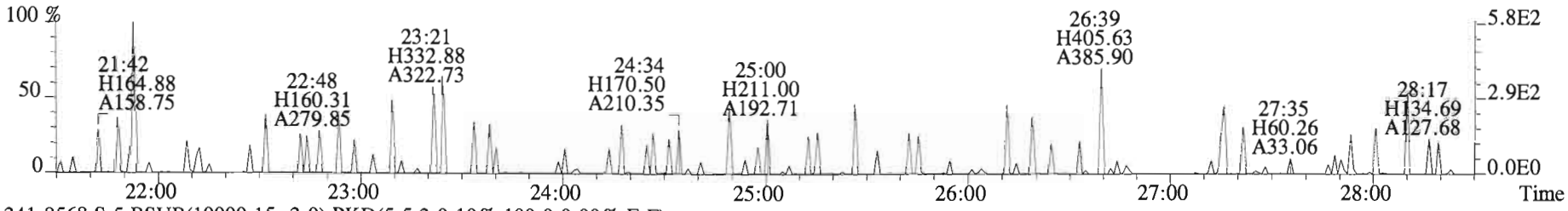
317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



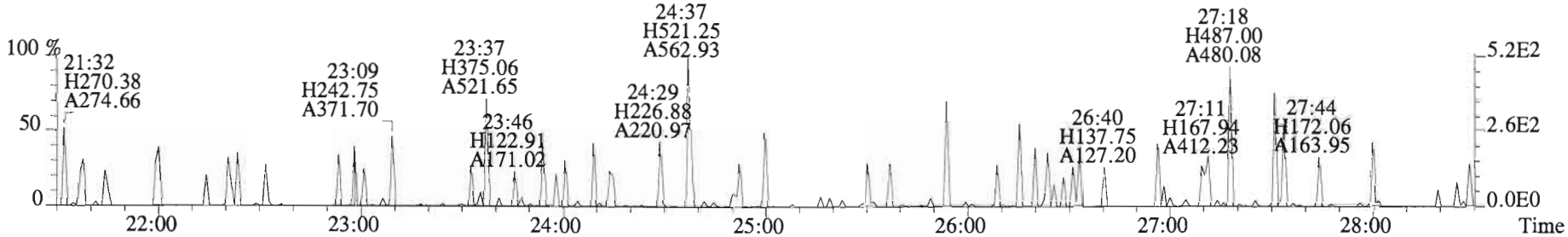
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



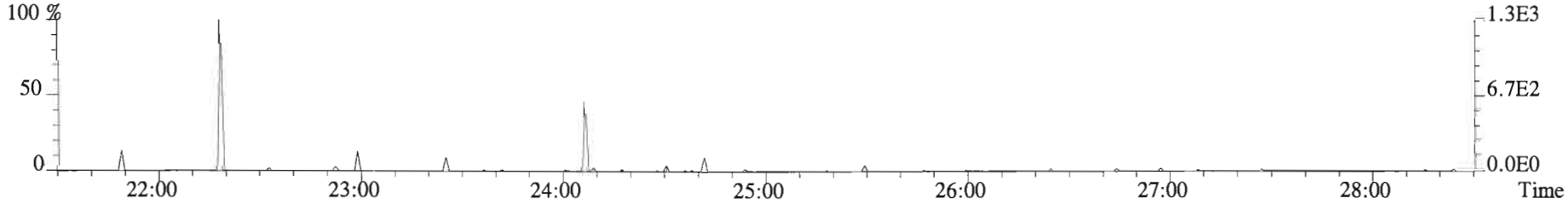
File:150130D3 #1-551 Acq:31-JAN-2015 13:10:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BLK1 Method Blank 10 Exp:OCDD_DB5
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



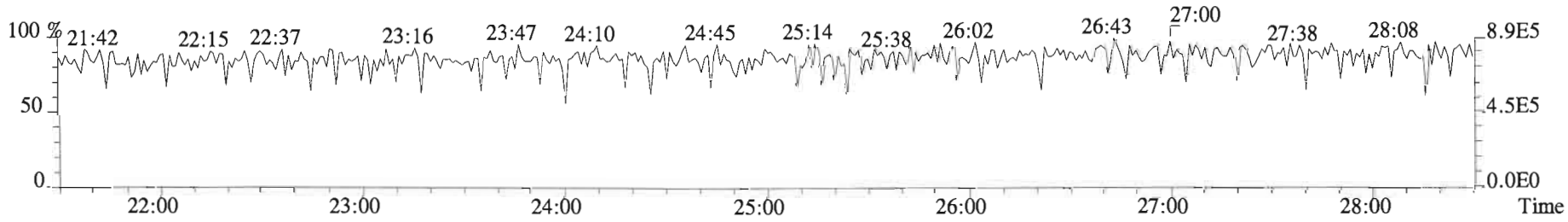
341.8568 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



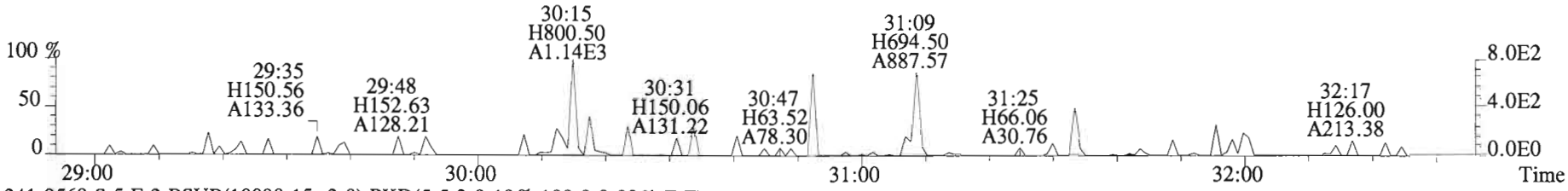
409.7974 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



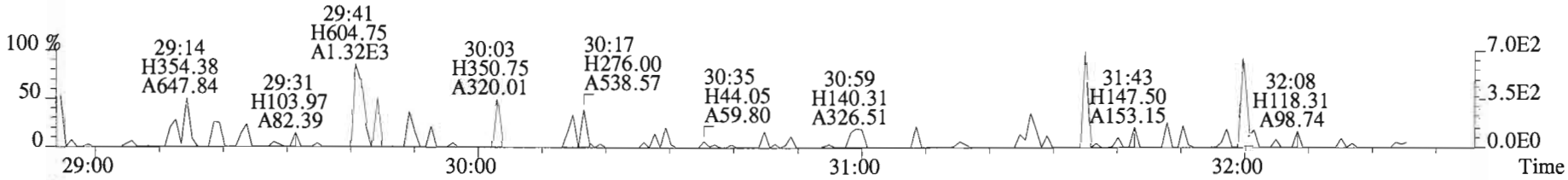
316.9824 S:5



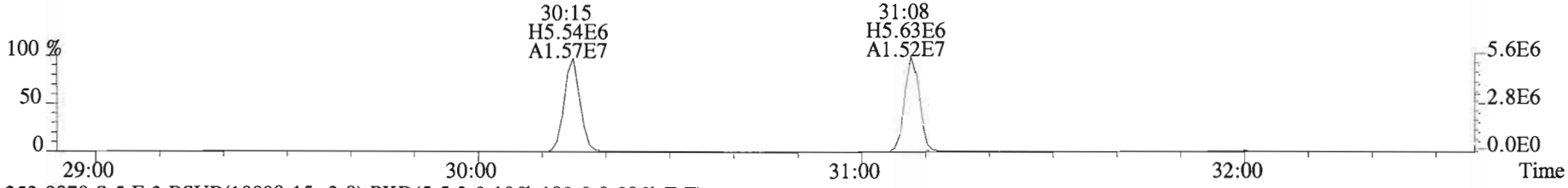
File:150130D3 #1-251 Acq:31-JAN-2015 13:10:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BLK1 Method Blank 10 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



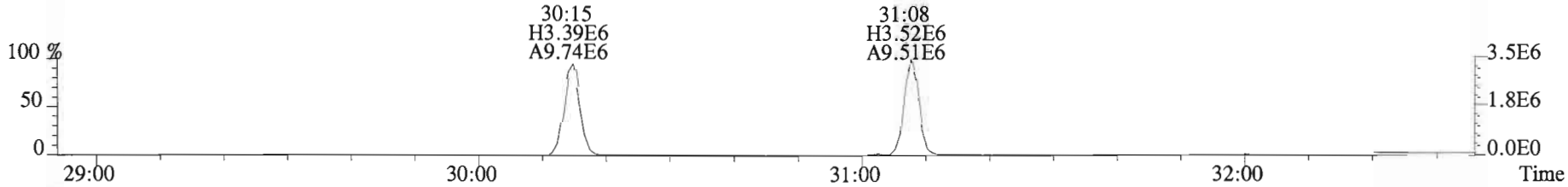
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



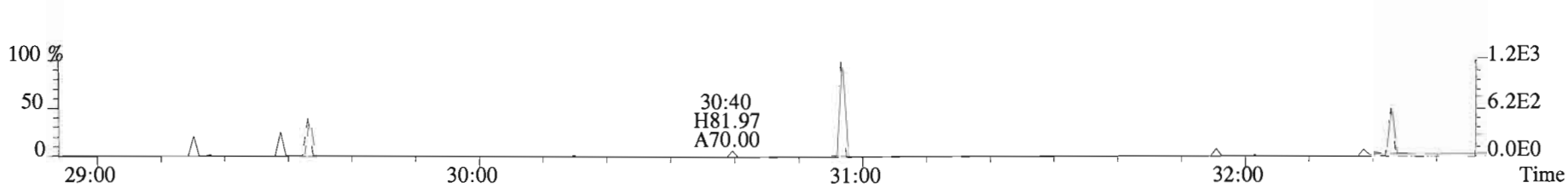
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

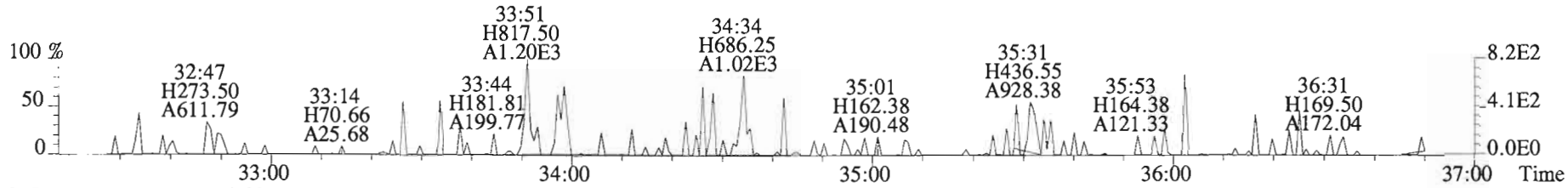


409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

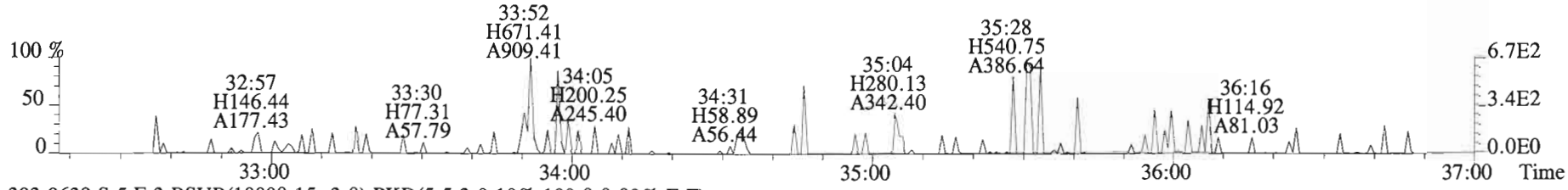


File:150130D3 #1-392 Acq:31-JAN-2015 13:10:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BLK1 Method Blank 10 Exp:OCDD_DB5

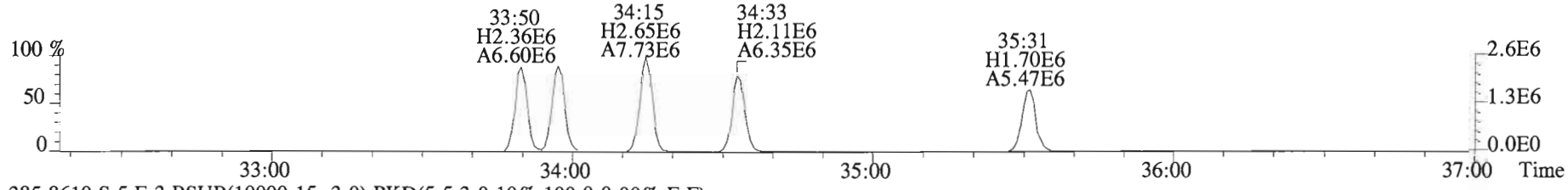
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



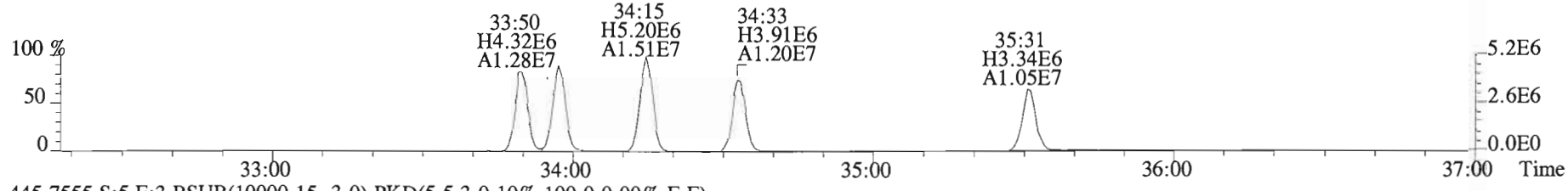
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



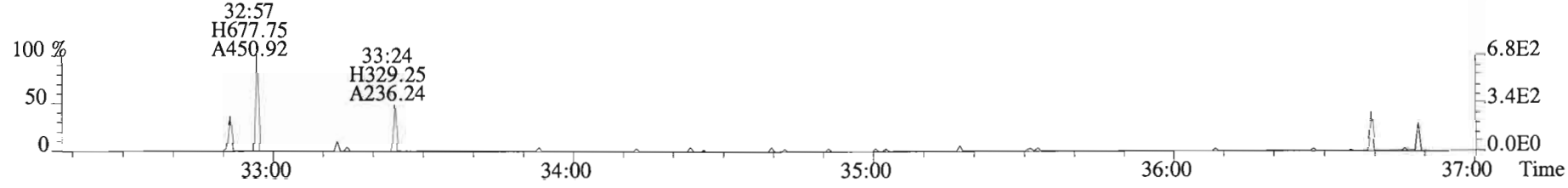
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



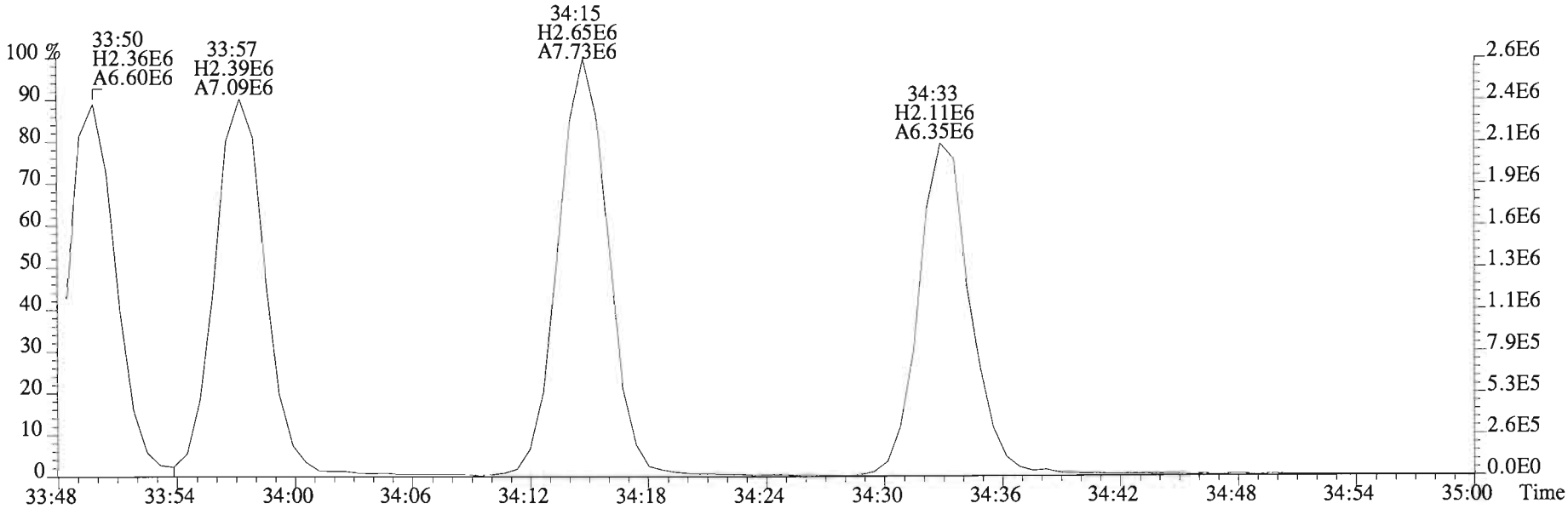
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



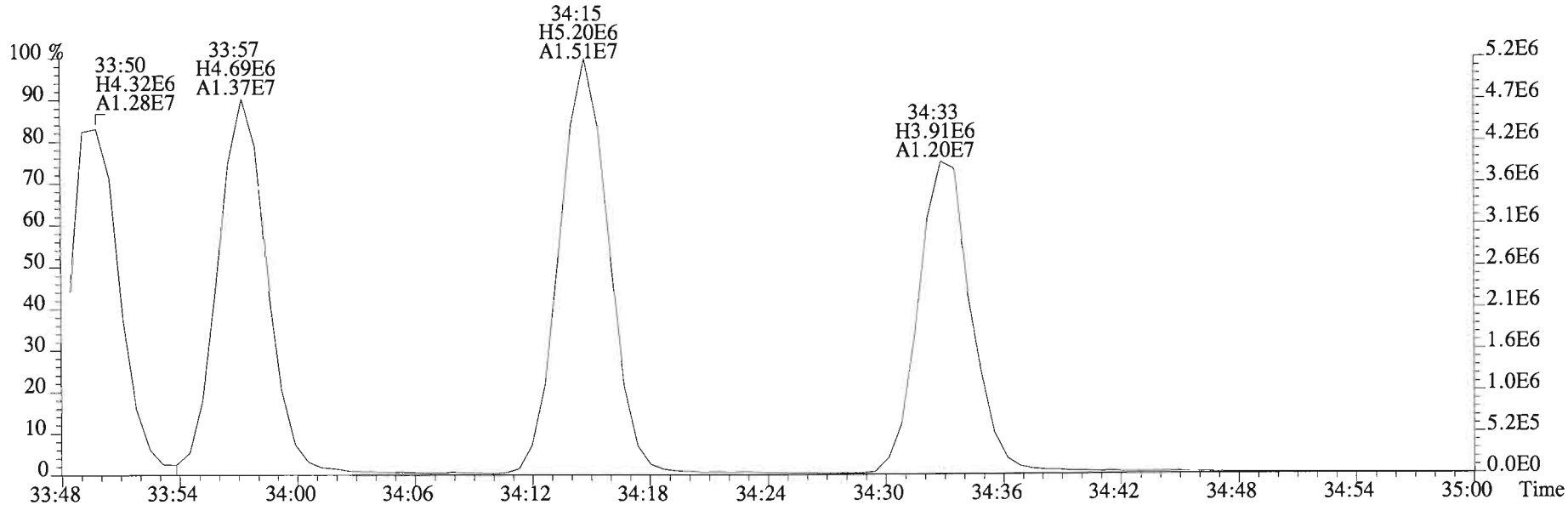
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



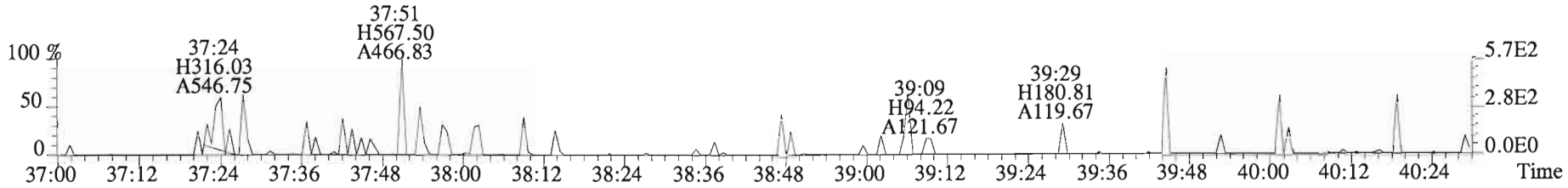
File:150130D3 #1-392 Acq:31-JAN-2015 13:10:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BLK1 Method Blank 10 Exp:OCDD_DB5
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



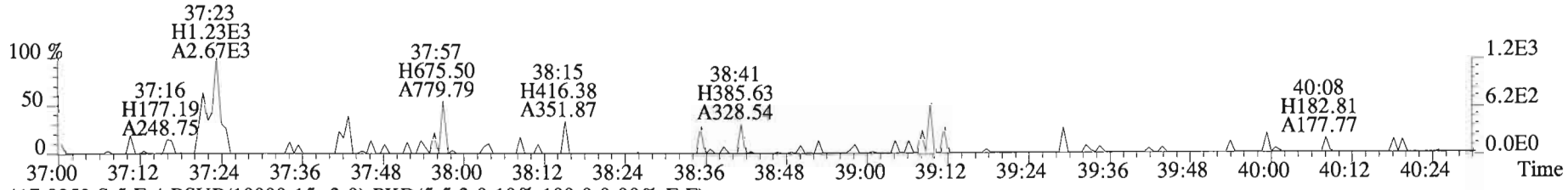
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



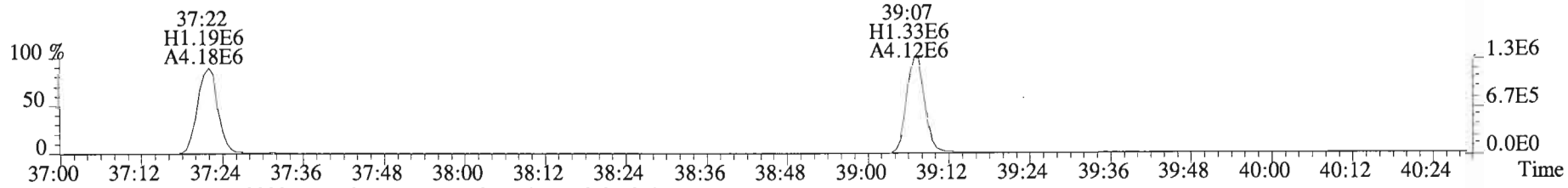
File:150130D3 #1-326 Acq:31-JAN-2015 13:10:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BLK1 Method Blank 10 Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



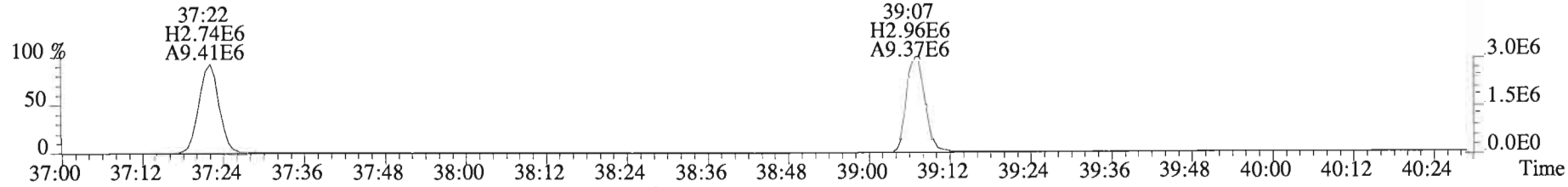
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



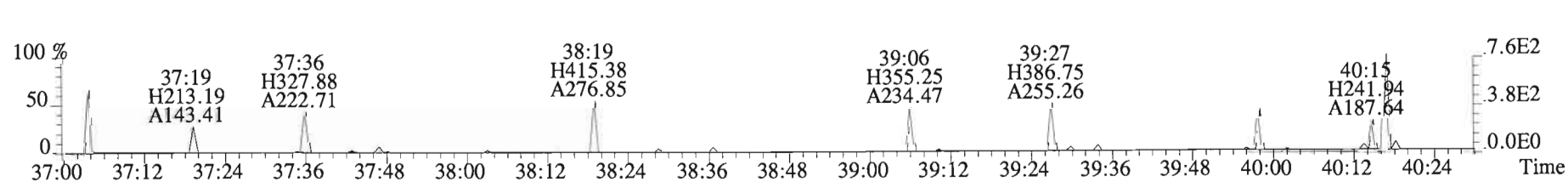
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



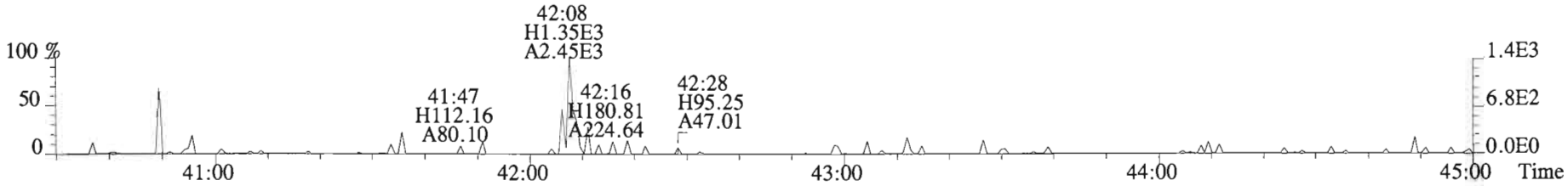
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



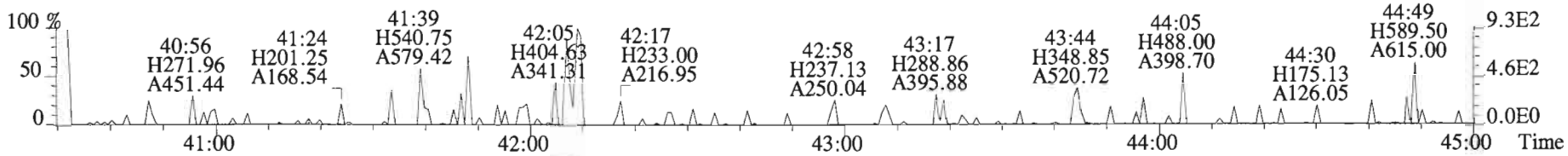
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



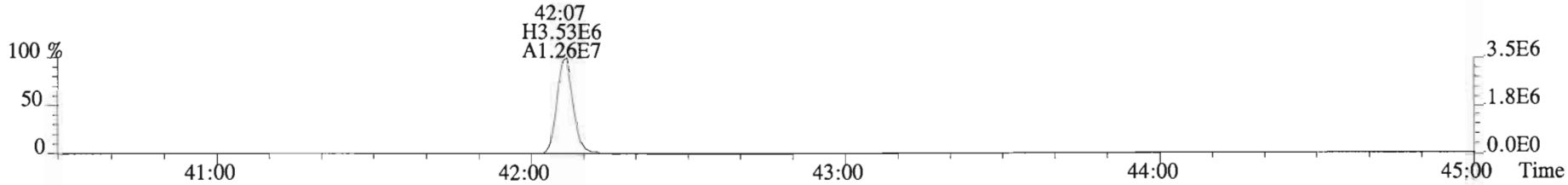
File:150130D3 #1-389 Acq:31-JAN-2015 13:10:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BLK1 Method Blank 10 Exp:OCDD_DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



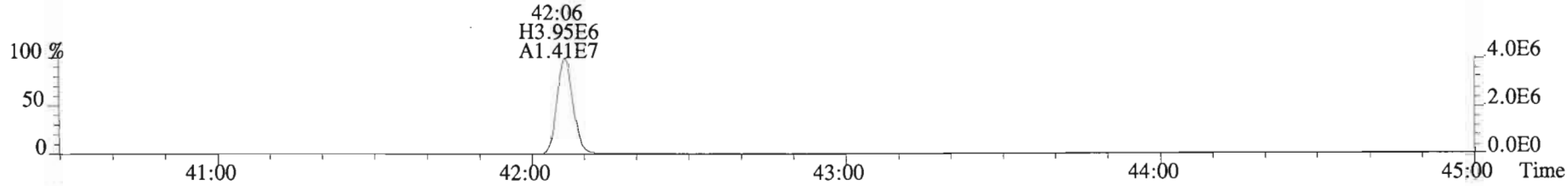
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



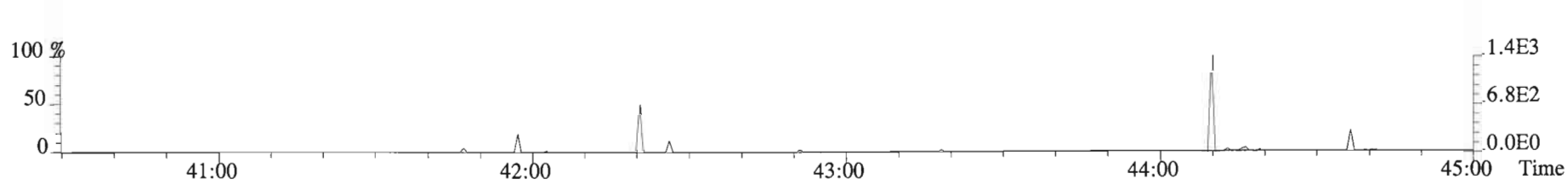
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



FORM 8A
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B5A0101-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): SOLID OPR Data Filename: 150130D3-2

Ext. Date: 1-27-15 Shift: Day Analysis Date: 31-JAN-15 Time: 10:46:04

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

NATIVE ANALYTES	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
2,3,7,8-TCDD	10	8.23	6.7 - 15.8 7.3 - 14.6 (2)
1,2,3,7,8-PeCDD	50	49.0	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	50.6	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	52.6	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	50.8	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	49.4	35.0 - 70.0
OCDD	100	101	78.0 - 144.0
2,3,7,8-TCDF	10	9.29	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	49.0	40.0 - 67.0
2,3,4,7,8-PeCDF	50	47.6	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	50.0	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	48.6	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	49.6	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	50.0	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	49.8	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	51.2	39.0 - 69.0
OCDF	100	101	63.0 - 170.0

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. 10/94

(2) Contract-required concentration limits for OPR as specified in Table 6a, Method 1613. 10/94

Analyst: [signature]

Date: 2/2/15

FORM 8B
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B5A0101-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): SOLID OPR Data Filename: 150130D3-2

Ext. Date: 1-27-15 Shift: Day Analysis Date: 31-JAN-15 Time: 10:46:04

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

LABELED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
13C-2,3,7,8-TCDD	100	85.8	20.0 - 175.0
			25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	78.2	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	83.0	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	79.7	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	83.1	21.0 - 193.0
13C-1,2,3,4,6,7,8-HpCDD	100	88.2	26.0 - 166.0
13C-OCDD	200	130	26.0 - 397.0
13C-2,3,7,8-TCDF	100	86.1	22.0 - 152.0
			26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	88.3	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	84.0	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	86.9	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	84.9	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	80.3	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	85.5	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	88.0	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	84.1	20.0 - 186.0
13C-OCDF	200	145	26.0 - 397.0
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	37.5	12.4 - 76.4

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. 10/94

(2) Contract-required concentration limits for OPR as specified in Table 6a, Method 1613. 10/94

Analyst: [signature]

Date: 2/4/15

Client ID: OPR Filename: 150130D3 S:2 Acq:31-JAN-15 10:46:04 ConCal: ST150130D3-1
Lab ID: B5A0101-BS1 GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.000 EndCAL: NA

	Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	1.72e+06	0.74 y	1.17	26:58	1.001	8.2308		*	2.5	*
	1,2,3,7,8-PeCDD	8.06e+06	0.63 y	0.91	31:26	1.000	48.989		*	2.5	*
	1,2,3,4,7,8-HxCDD	7.23e+06	1.26 y	1.08	34:44	1.000	50.607		*	2.5	*
	1,2,3,6,7,8-HxCDD	7.27e+06	1.26 y	1.06	34:51	1.000	52.555		*	2.5	*
	1,2,3,7,8,9-HxCDD	7.43e+06	1.25 y	0.93	35:09	1.000	50.803		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	6.97e+06	1.04 y	1.10	38:35	1.000	49.378		*	2.5	*
	OCDD	1.05e+07	0.88 y	0.95	41:54	1.000	100.93		*	2.5	*
	2,3,7,8-TCDF	2.45e+06	0.78 y	1.07	26:12	1.001	9.2855		*	2.5	*
	1,2,3,7,8-PeCDF	1.34e+07	1.60 y	1.07	30:16	1.001	48.997		*	2.5	*
	2,3,4,7,8-PeCDF	1.20e+07	1.58 y	1.03	31:09	1.001	47.638		*	2.5	*
	1,2,3,4,7,8-HxCDF	1.31e+07	1.33 y	1.38	33:51	1.001	49.962		*	2.5	*
	1,2,3,6,7,8-HxCDF	1.24e+07	1.28 y	1.26	33:59	1.000	48.577		*	2.5	*
	2,3,4,6,7,8-HxCDF	1.17e+07	1.32 y	1.29	34:35	1.001	49.648		*	2.5	*
	1,2,3,7,8,9-HxCDF	9.66e+06	1.31 y	1.19	35:33	1.000	49.979		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	1.13e+07	1.08 y	1.61	37:23	1.000	49.779		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	1.01e+07	1.08 y	1.53	39:08	1.000	51.163		*	2.5	*
	OCDF	1.52e+07	0.93 y	1.10	42:08	1.000	101.32		*	2.5	*
IS	13C-2,3,7,8-TCDD	1.79e+07	0.77 y	1.06	26:57	1.021	85.759				
IS	13C-1,2,3,7,8-PeCDD	1.81e+07	0.61 y	1.18	31:25	1.190	78.171				
IS	13C-1,2,3,4,7,8-HxCDD	1.32e+07	1.25 y	0.72	34:44	1.014	83.022				
IS	13C-1,2,3,6,7,8-HxCDD	1.30e+07	1.23 y	0.74	34:50	1.017	79.694				
IS	13C-1,2,3,7,8,9-HxCDD	1.57e+07	1.25 y	0.85	35:08	1.026	83.112				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.28e+07	1.05 y	0.65	38:34	1.126	88.224				
IS	13C-OCDD	2.19e+07	0.90 y	0.76	41:54	1.223	129.55				
IS	13C-2,3,7,8-TCDF	2.47e+07	0.77 y	0.92	26:11	0.992	86.099				
IS	13C-1,2,3,7,8-PeCDF	2.54e+07	1.61 y	0.92	30:15	1.146	88.324				
IS	13C-2,3,4,7,8-PeCDF	2.44e+07	1.62 y	0.93	31:08	1.180	84.013				
IS	13C-1,2,3,4,7,8-HxCDF	1.89e+07	0.52 y	0.98	33:50	0.988	86.862				
IS	13C-1,2,3,6,7,8-HxCDF	2.04e+07	0.52 y	1.08	33:58	0.992	84.932				
IS	13C-2,3,4,6,7,8-HxCDF	1.82e+07	0.50 y	1.03	34:34	1.009	80.291				
IS	13C-1,2,3,7,8,9-HxCDF	1.63e+07	0.52 y	0.86	35:32	1.037	85.542				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.41e+07	0.44 y	0.72	37:22	1.091	87.993				
IS	13C-1,2,3,4,7,8,9-HpCDF	1.30e+07	0.43 y	0.70	39:08	1.142	84.113				
IS	13C-OCDF	2.73e+07	0.89 y	0.85	42:07	1.230	145.00				
C/Up	37Cl-2,3,7,8-TCDD	8.23e+06		1.12	26:58	1.022	37.470				
RS/RT	13C-1,2,3,4-TCDD	1.97e+07	0.81 y	1.00	26:23	*	100.00				
RS	13C-1,2,3,4-TCDF	3.12e+07	0.78 y	1.00	24:59	*	100.00				
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.22e+07	0.51 y	1.00	34:15	*	100.00				

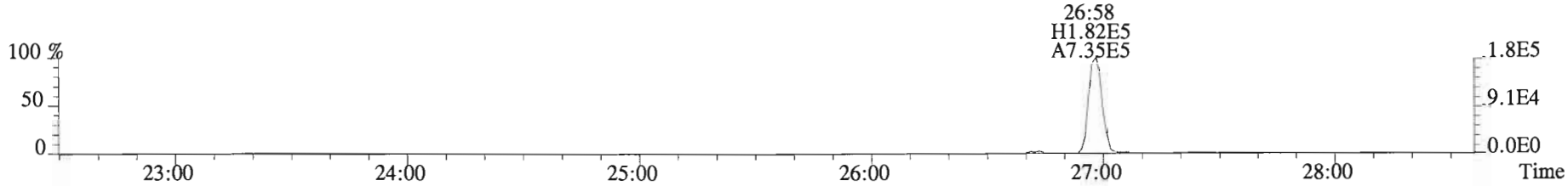
Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	8.49	8.54		*	*
Total Penta-Dioxins	49.0	49.3		*	*
Total Hexa-Dioxins	154	155		*	*
Total Hepta-Dioxins	49.4	50.7		*	*
Total Tetra-Furans	9.50	9.54		*	*
Total Penta-Furans	97.779	98.333		*	*
Total Hexa-Furans	198	200		*	*
Total Hepta-Furans	102	102		*	*

	Rec	Qual
IS	85.8	
IS	78.2	
IS	83.0	
IS	79.7	
IS	83.1	
IS	88.2	
IS	64.8	
IS	86.1	
IS	88.3	
IS	84.0	
IS	86.9	
IS	84.9	
IS	80.3	
IS	85.5	
IS	88.0	
IS	84.1	
IS	72.5	
C/Up	93.7	

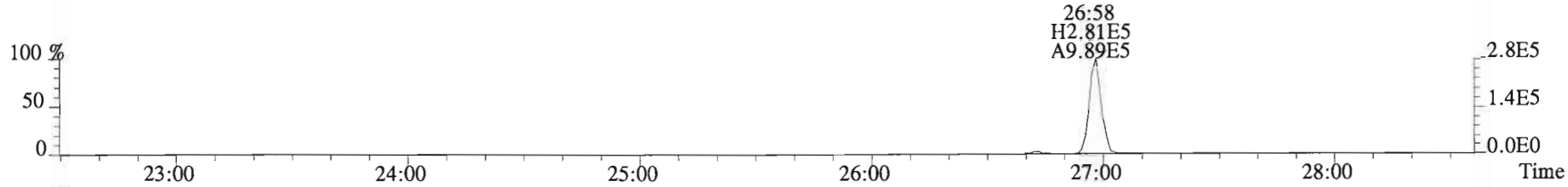
Integrations by Analyst: [signature] Date: 2/2/15

Reviewed by Analyst: [signature] Date: 2/6/15

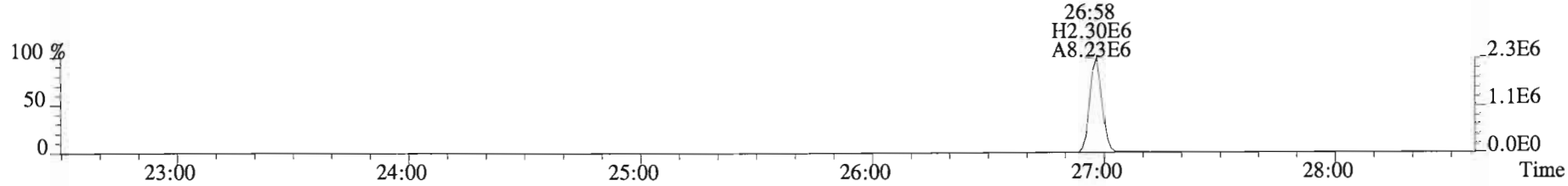
File:150130D3 #1-551 Acq:31-JAN-2015 10:46:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BS1 OPR 10 Exp:OCDD_DB5
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



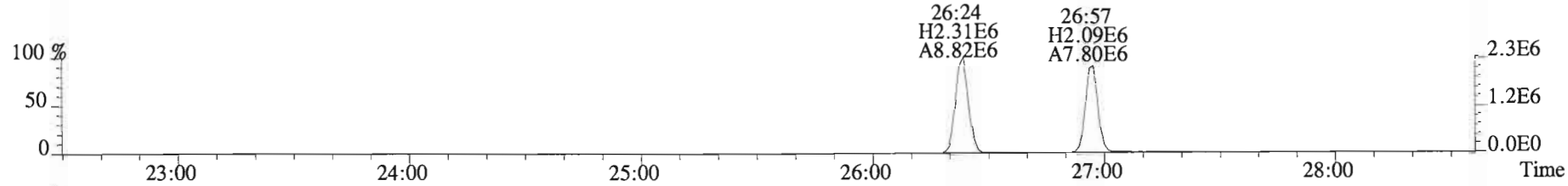
321.8936 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



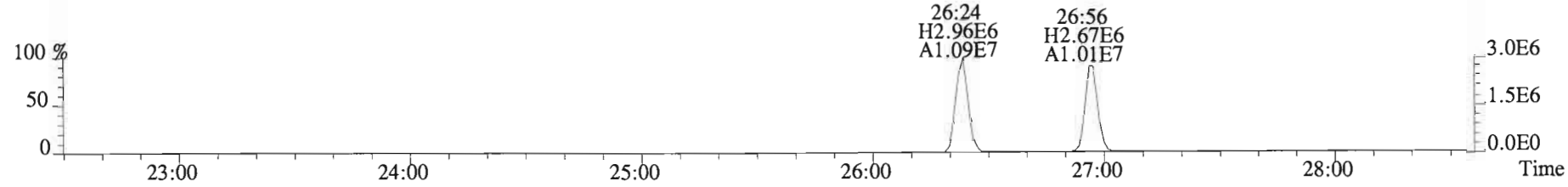
327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



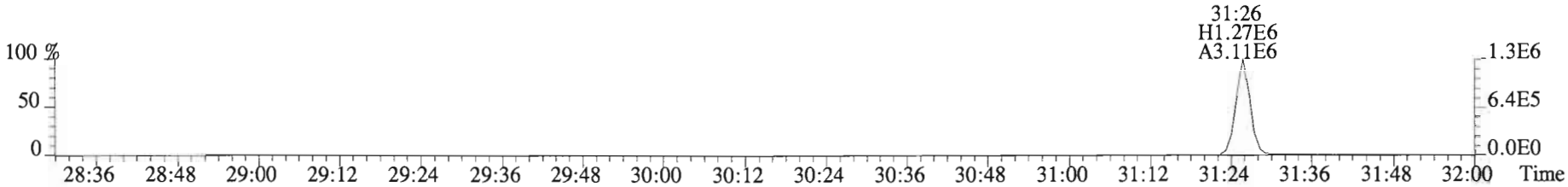
331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



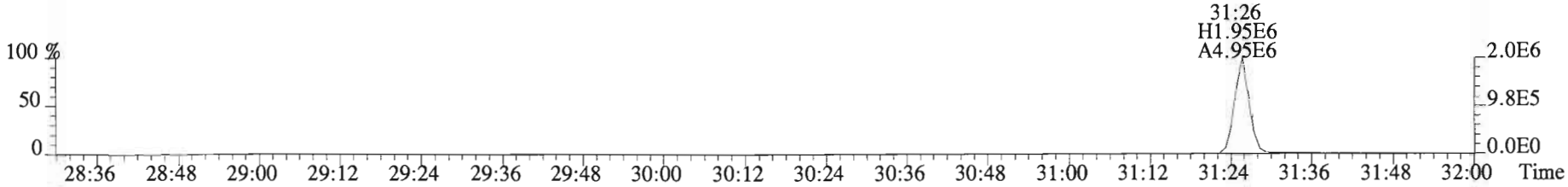
333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



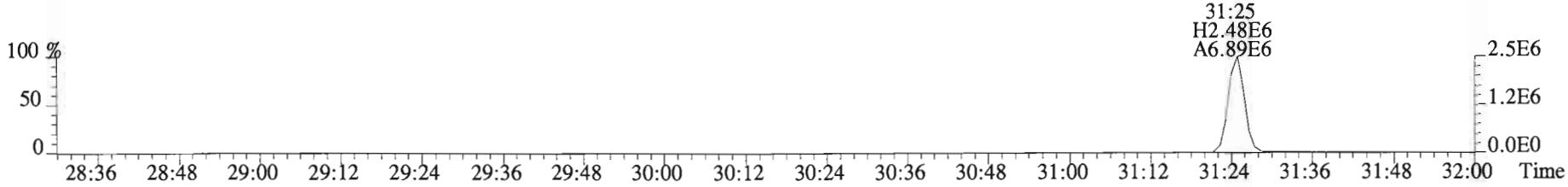
File:150130D3 #1-251 Acq:31-JAN-2015 10:46:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BS1 OPR 10 Exp:OCDD_DB5
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



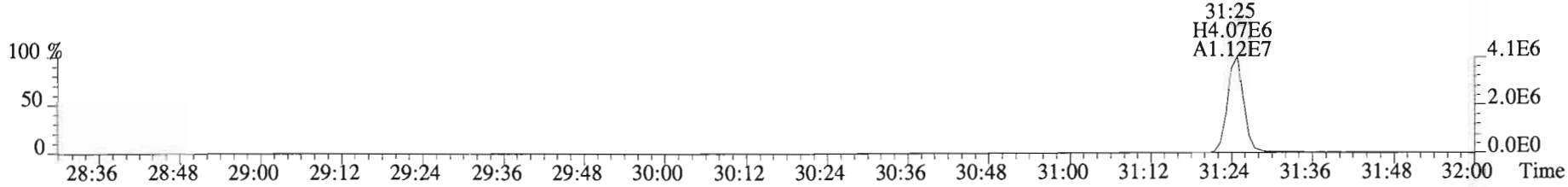
355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



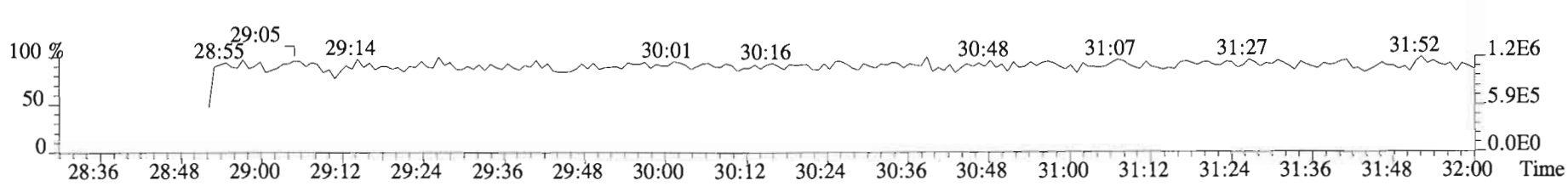
365.8978 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



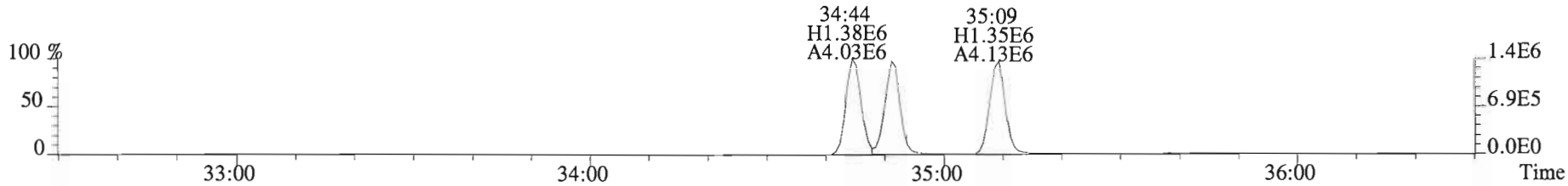
367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



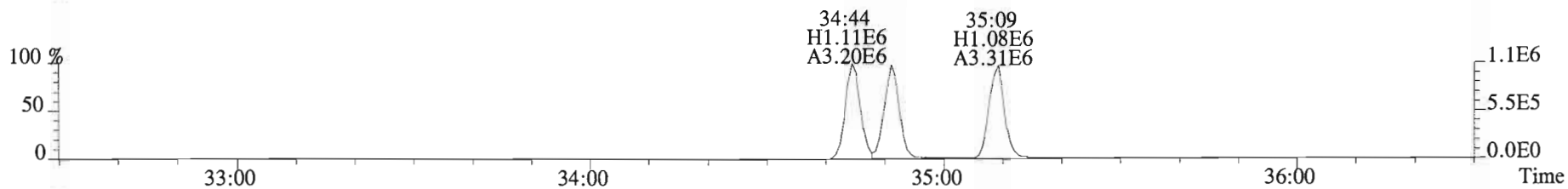
366.9792 S:2 F:2



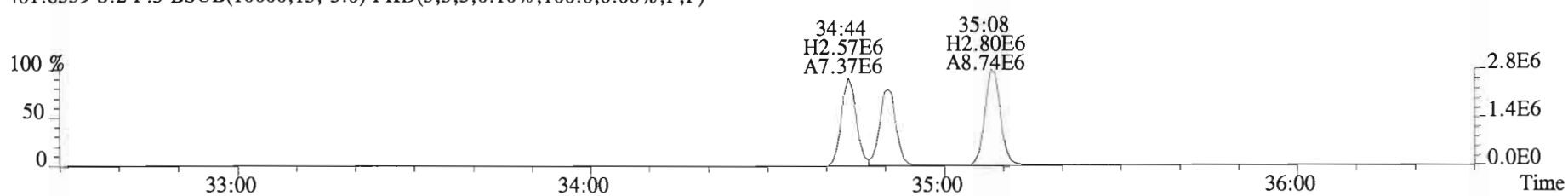
File:150130D3 #1-392 Acq:31-JAN-2015 10:46:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BS1 OPR 10 Exp:OCDD_DB5
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



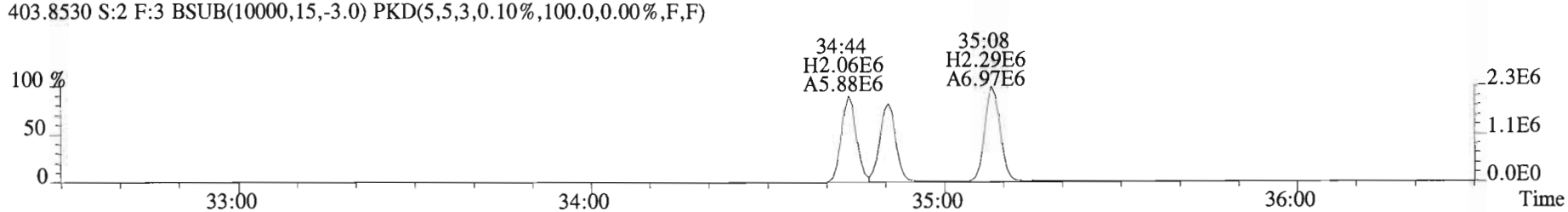
391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



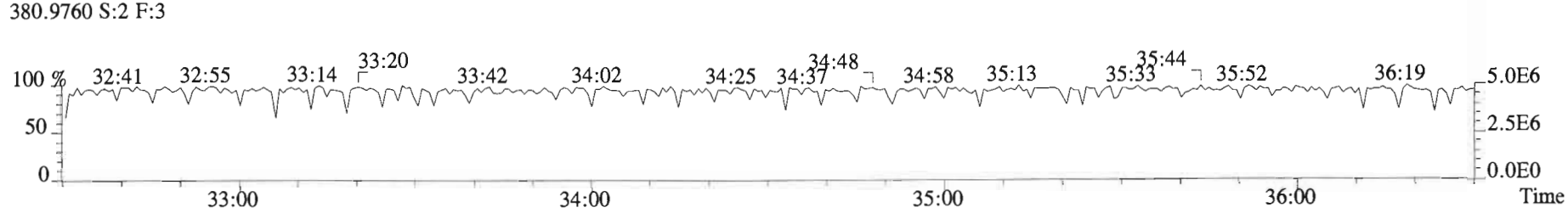
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



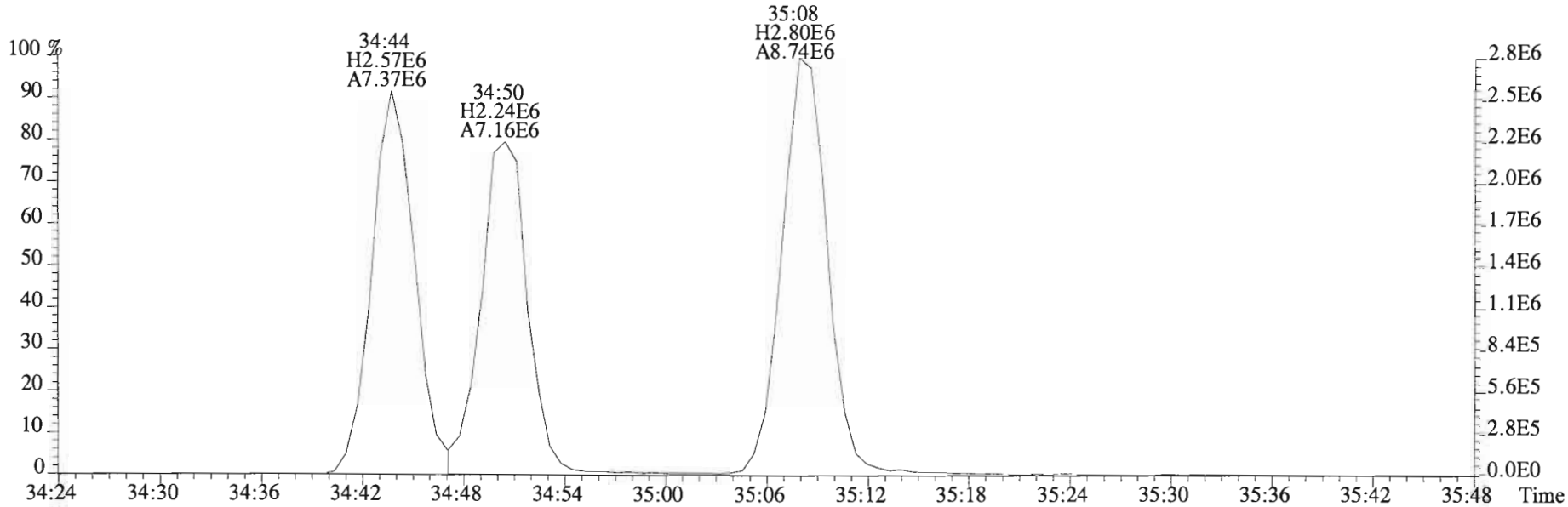
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



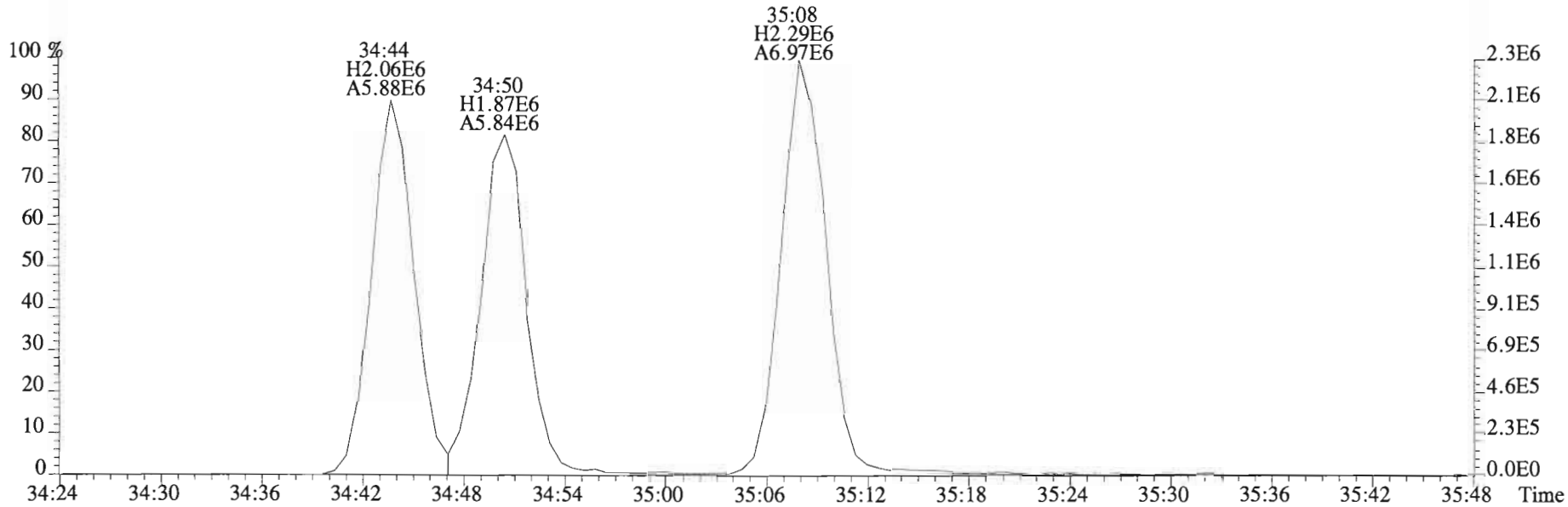
380.9760 S:2 F:3



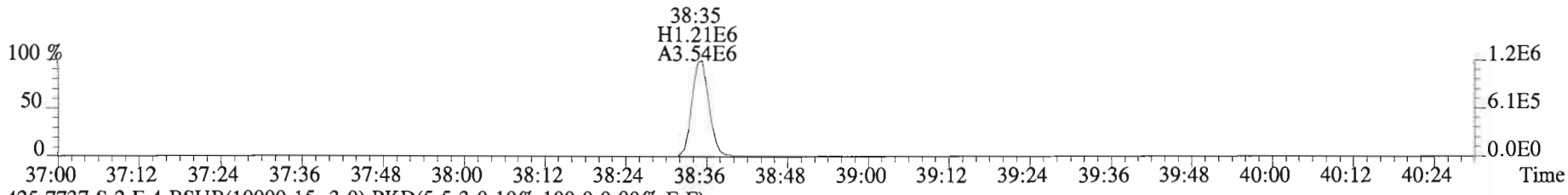
File:150130D3 #1-392 Acq:31-JAN-2015 10:46:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BS1 OPR 10 Exp:OCDD_DB5
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



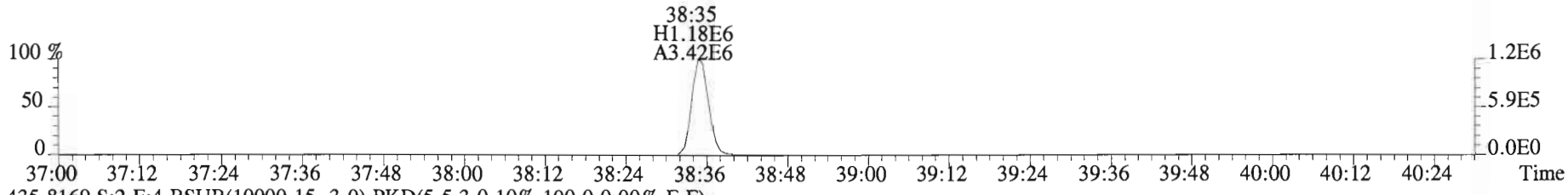
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



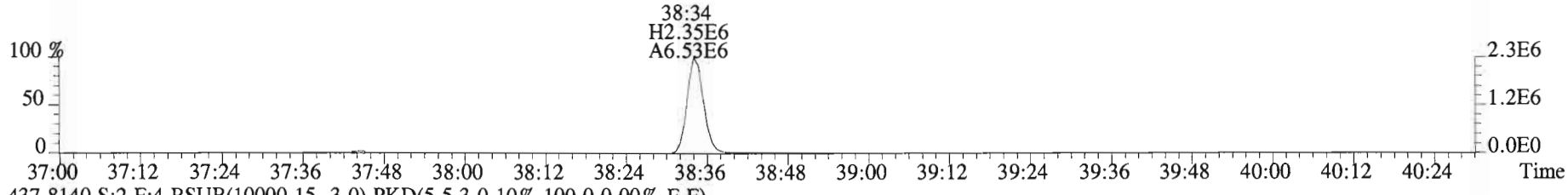
File:150130D3 #1-326 Acq:31-JAN-2015 10:46:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BS1 OPR 10 Exp:OCDD_DB5
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



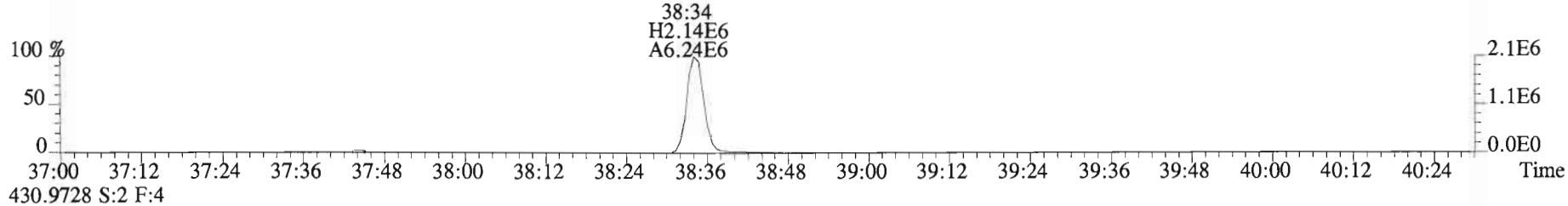
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



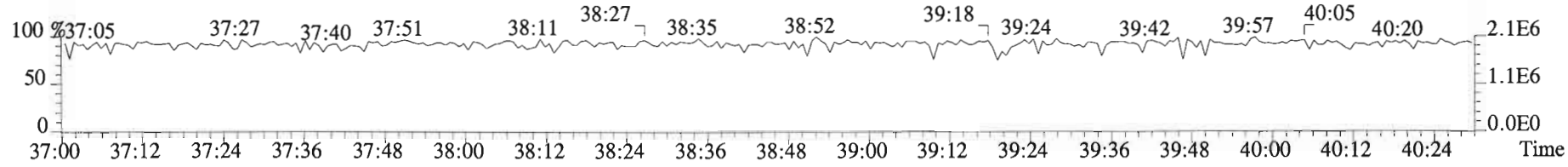
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



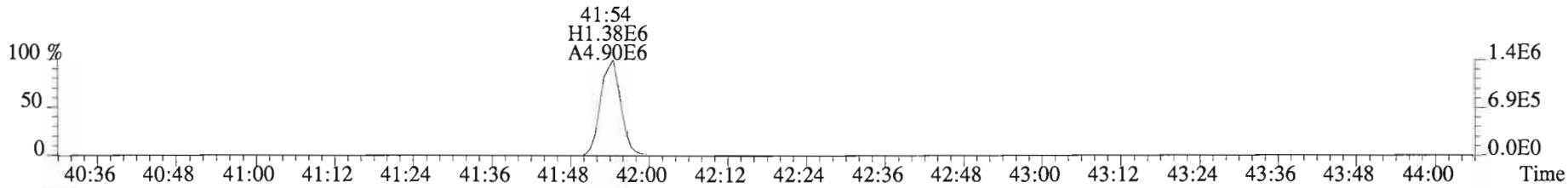
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



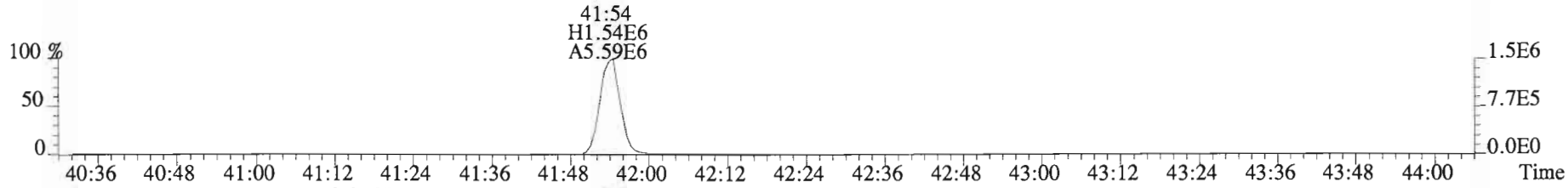
430.9728 S:2 F:4



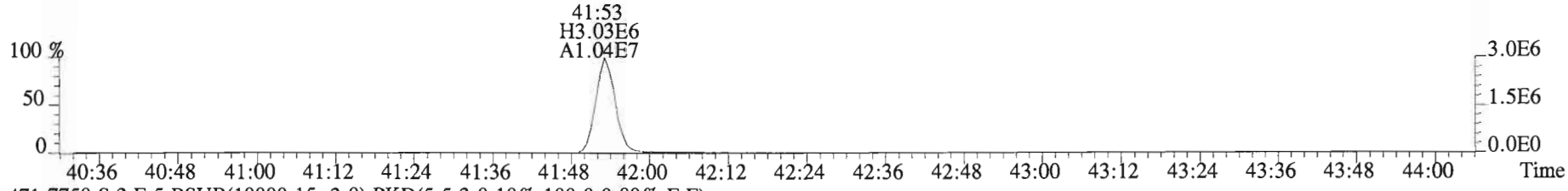
File:150130D3 #1-388 Acq:31-JAN-2015 10:46:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BS1 OPR 10 Exp:OCDD_DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



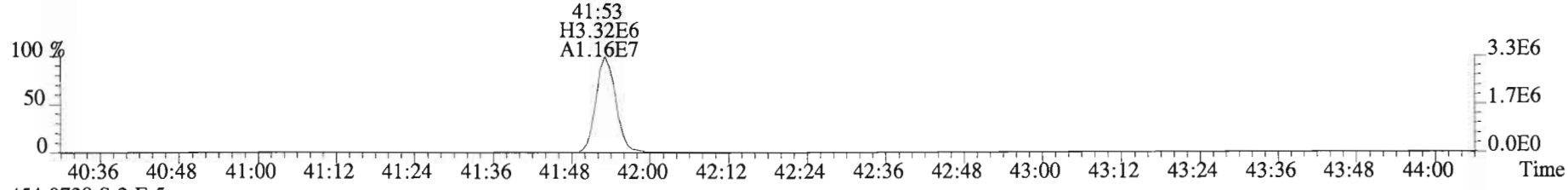
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



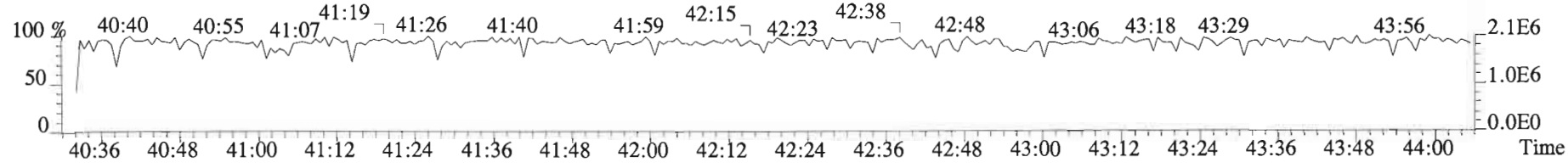
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



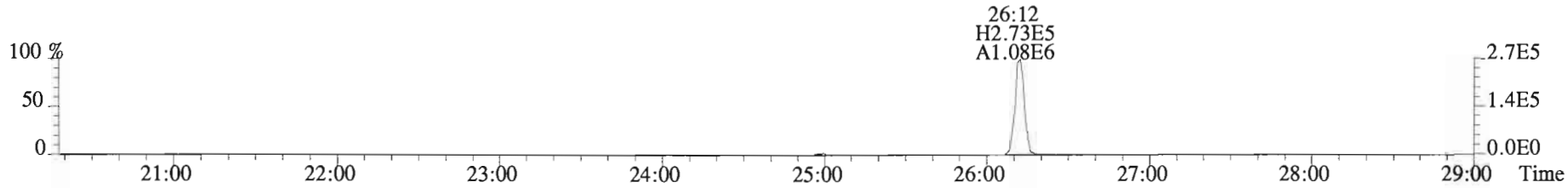
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



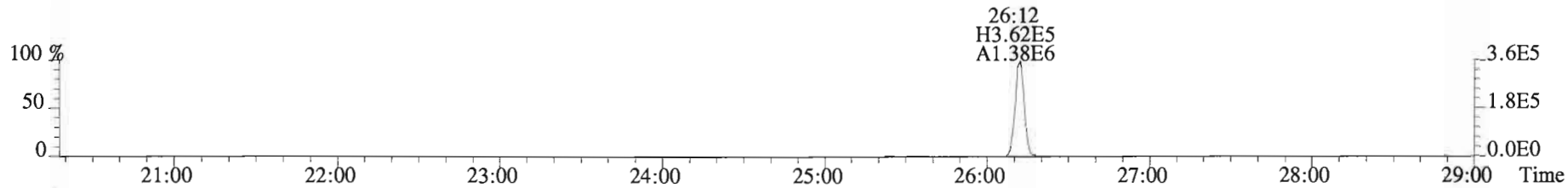
454.9728 S:2 F:5



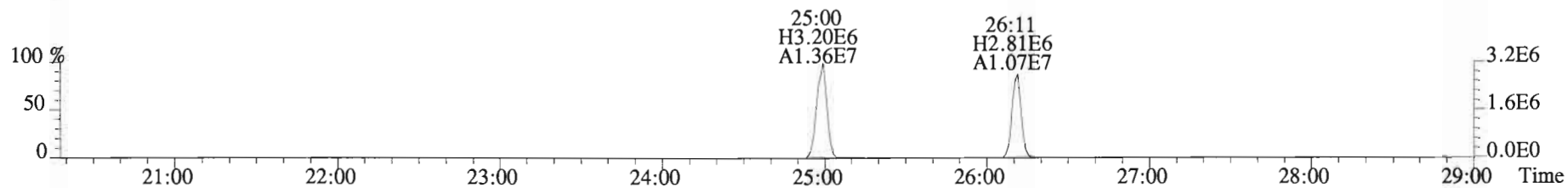
File:150130D3 #1-551 Acq:31-JAN-2015 10:46:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BS1 OPR 10 Exp:OCDD_DB5
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



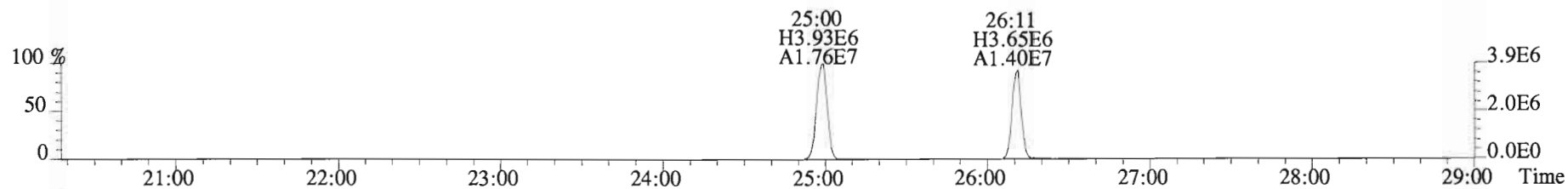
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



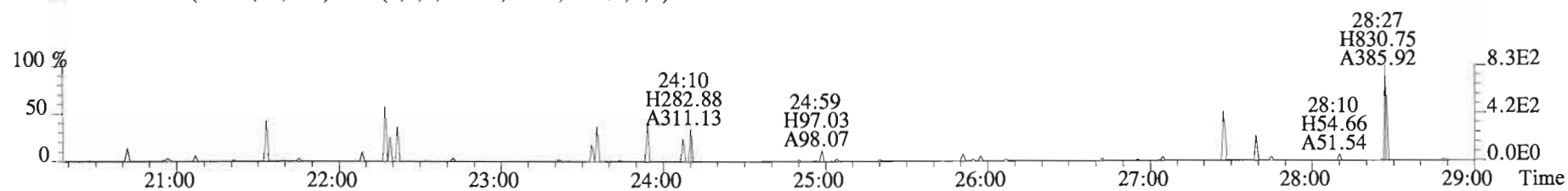
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



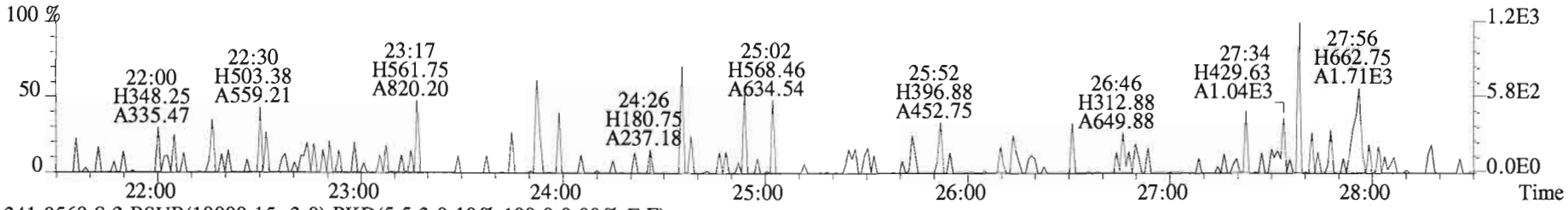
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



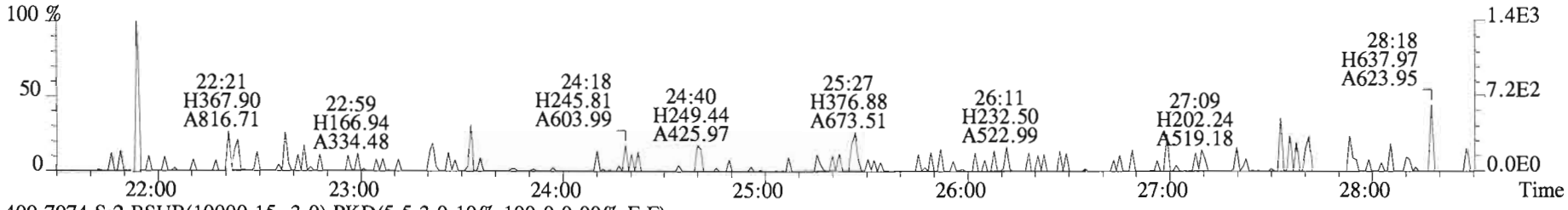
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



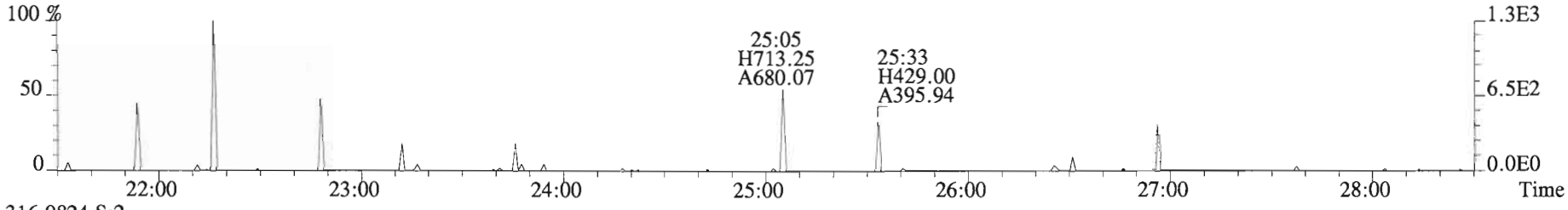
File:150130D3 #1-551 Acq:31-JAN-2015 10:46:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BS1 OPR 10 Exp:OCDD_DB5
339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



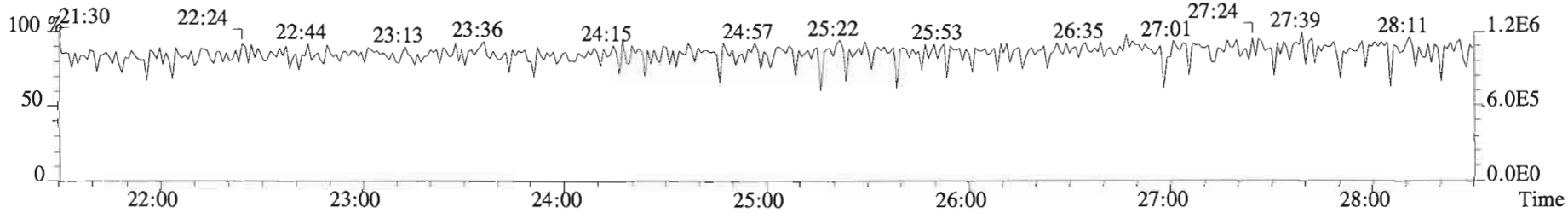
341.8568 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



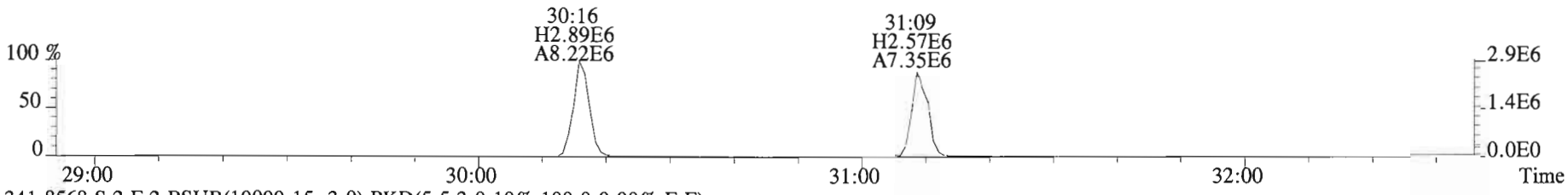
409.7974 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



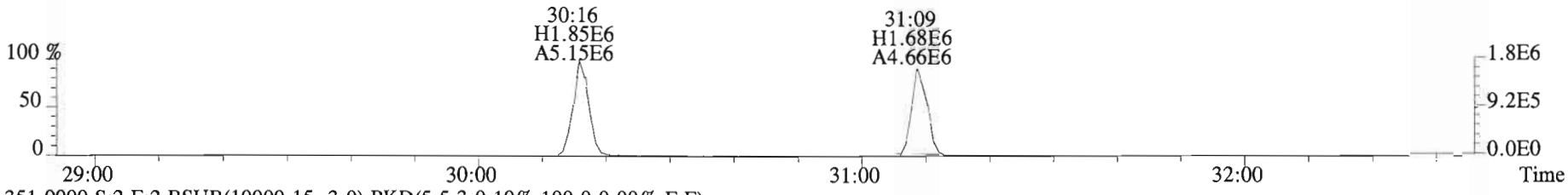
316.9824 S:2



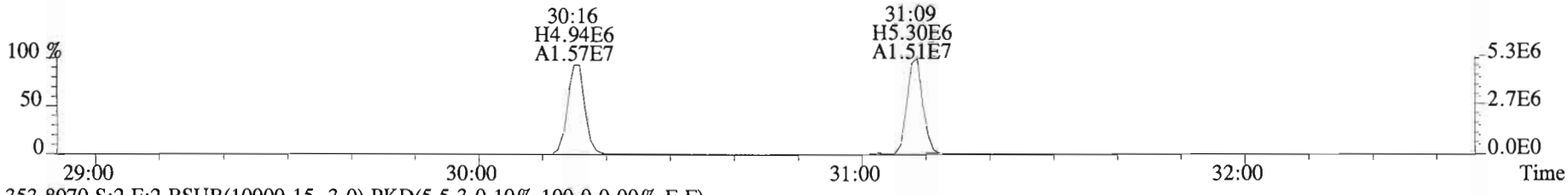
File:150130D3 #1-251 Acq:31-JAN-2015 10:46:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BS1 OPR 10 Exp:OCDD_DB5
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



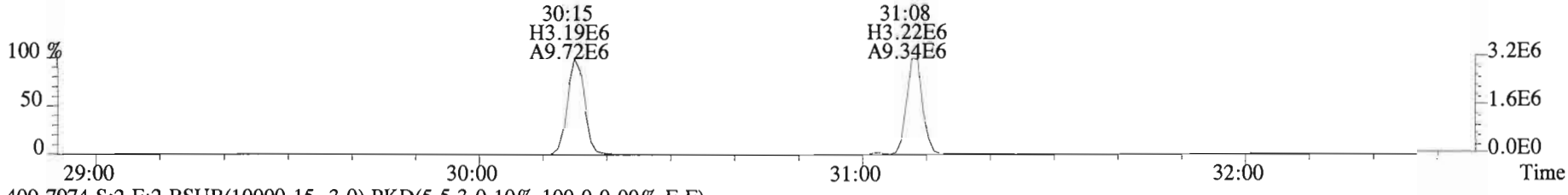
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



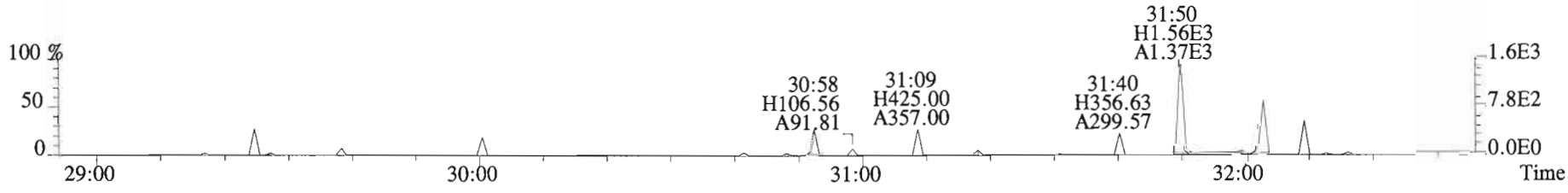
351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



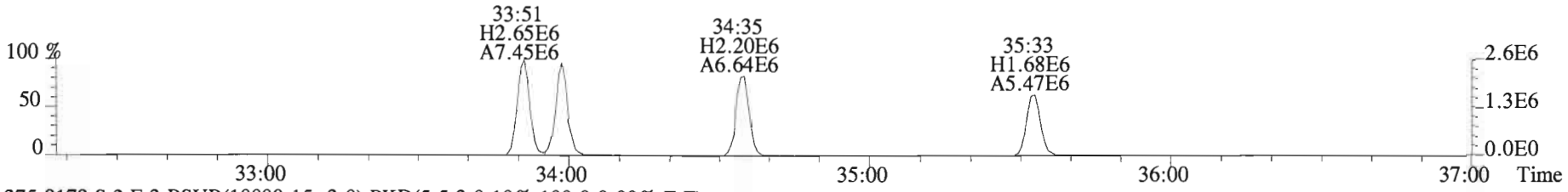
353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



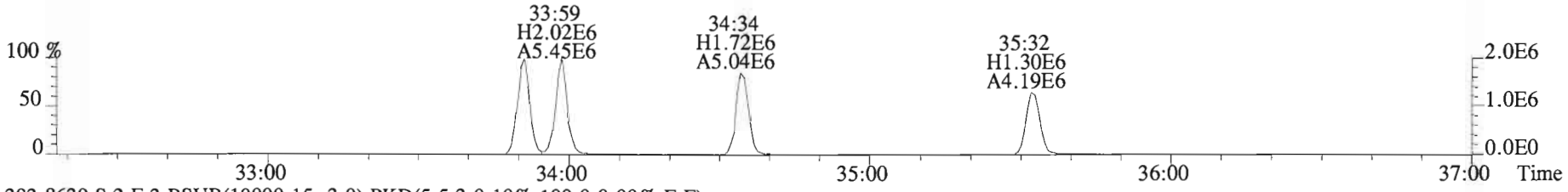
409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



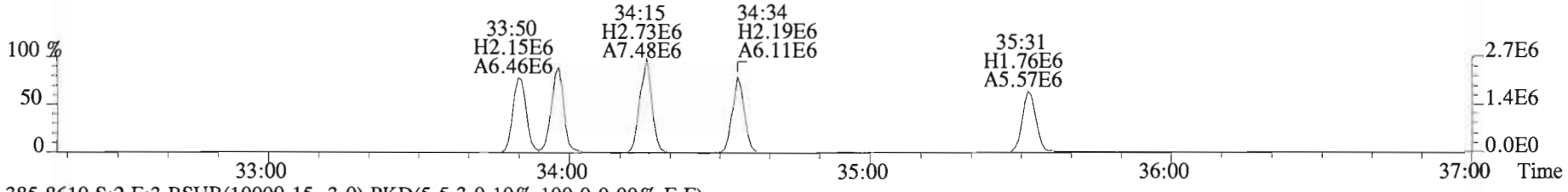
File:150130D3 #1-392 Acq:31-JAN-2015 10:46:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BS1 OPR 10 Exp:OCDD_DB5
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



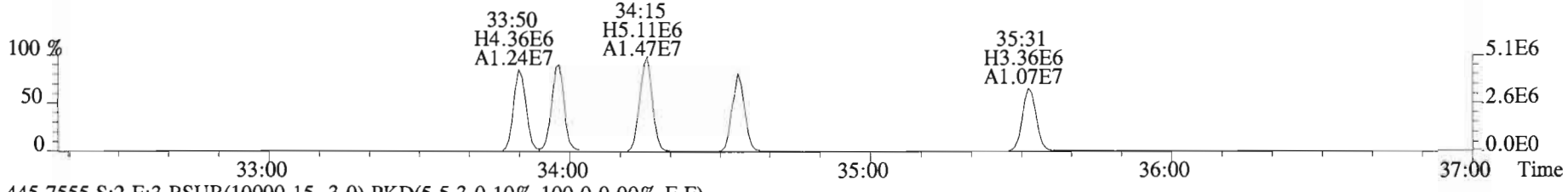
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



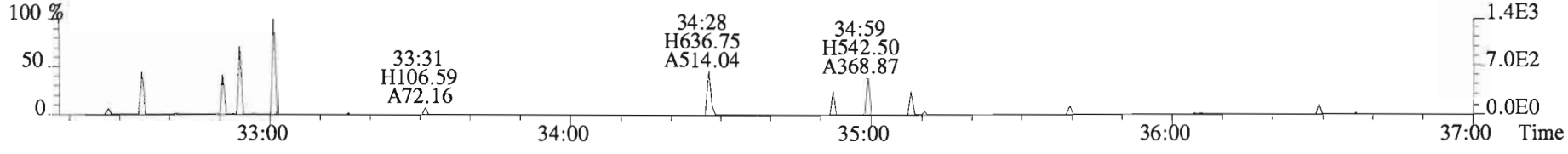
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



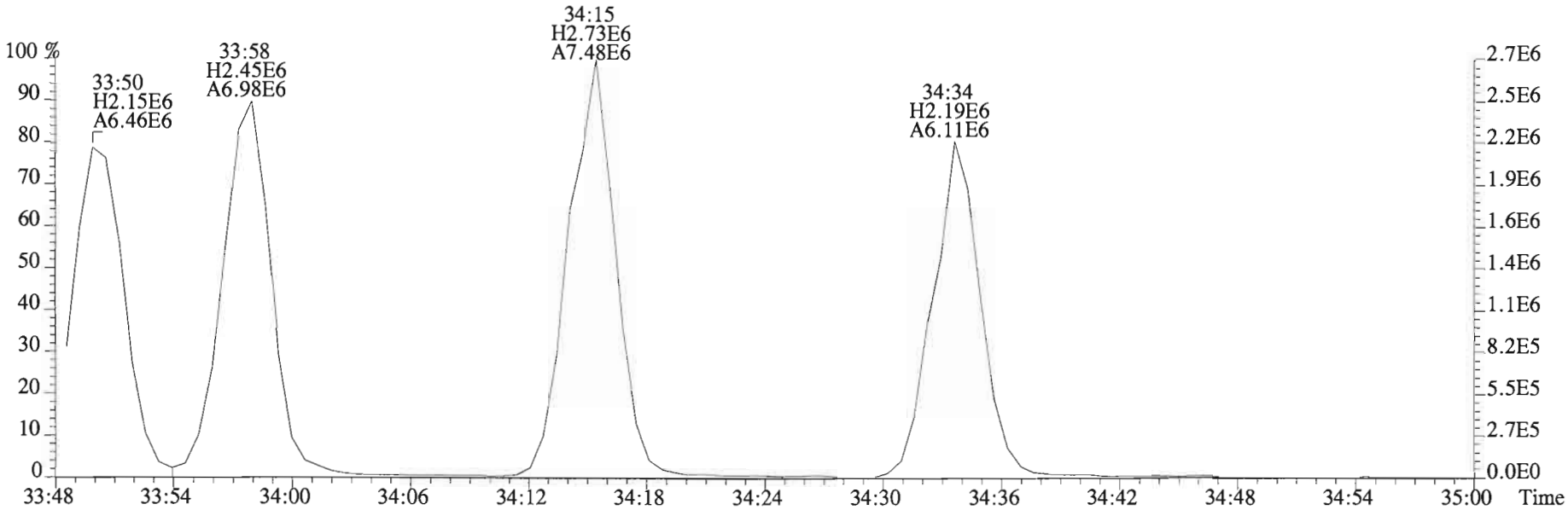
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



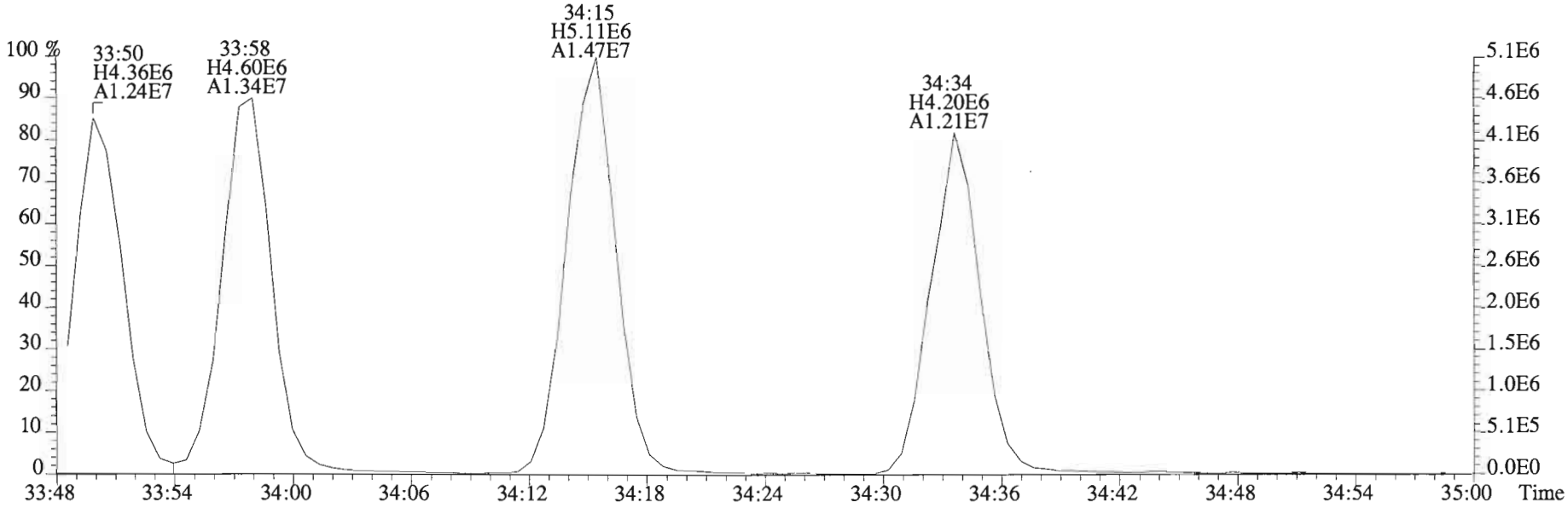
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



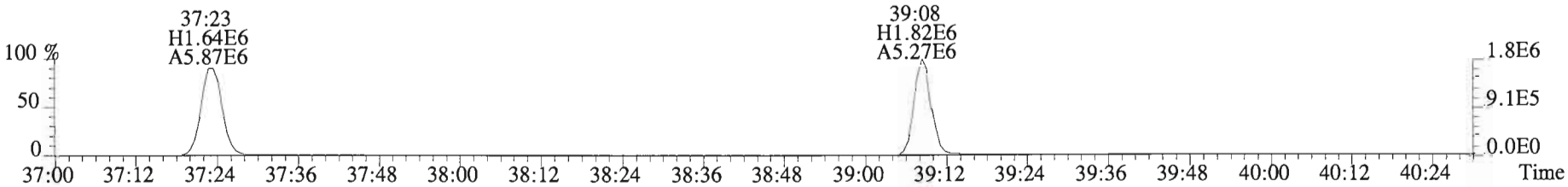
File:150130D3 #1-392 Acq:31-JAN-2015 10:46:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BS1 OPR 10 Exp:OCDD_DB5
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



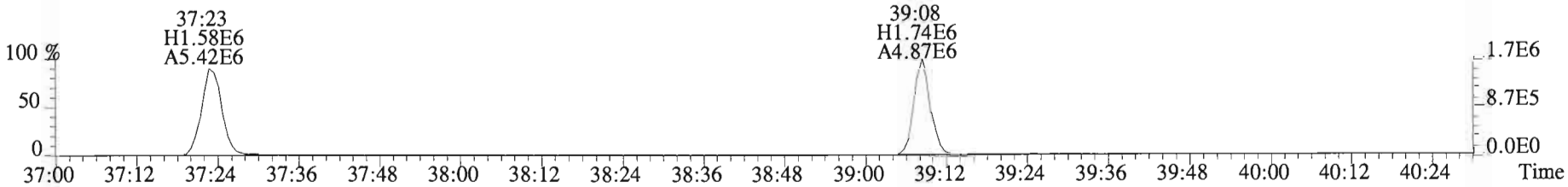
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



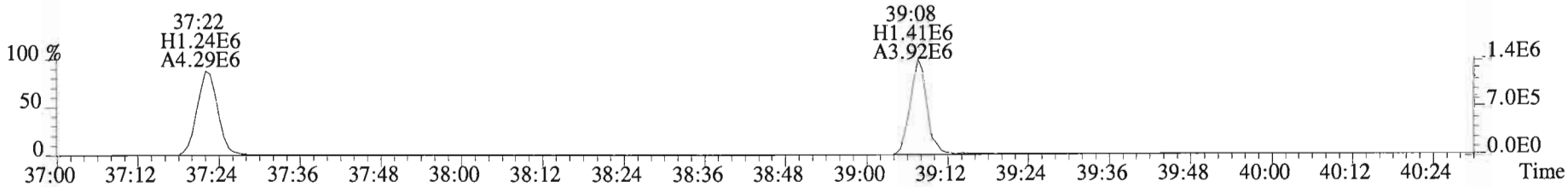
File:150130D3 #1-326 Acq:31-JAN-2015 10:46:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BS1 OPR 10 Exp:OCDD_DB5
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



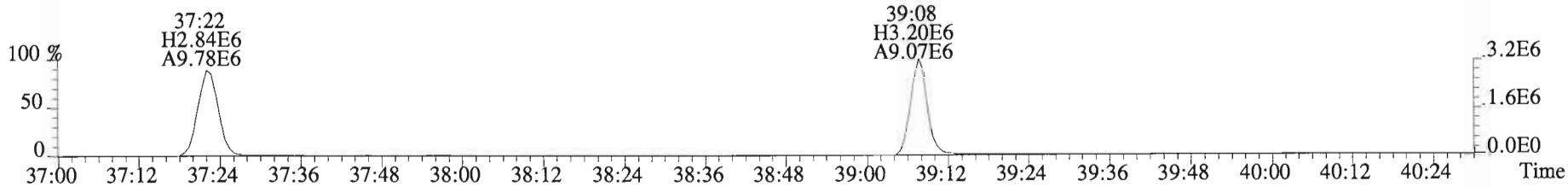
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



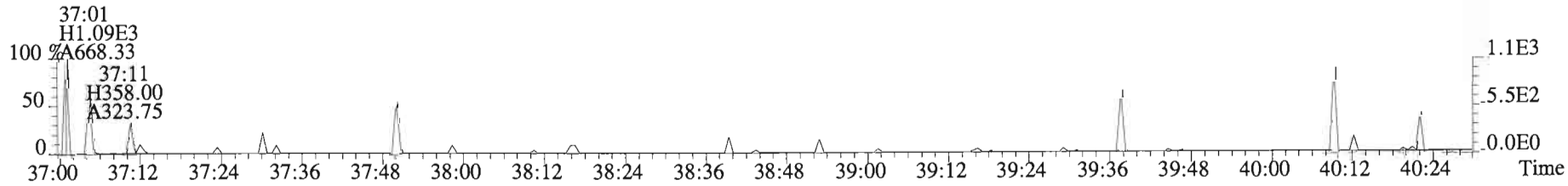
417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



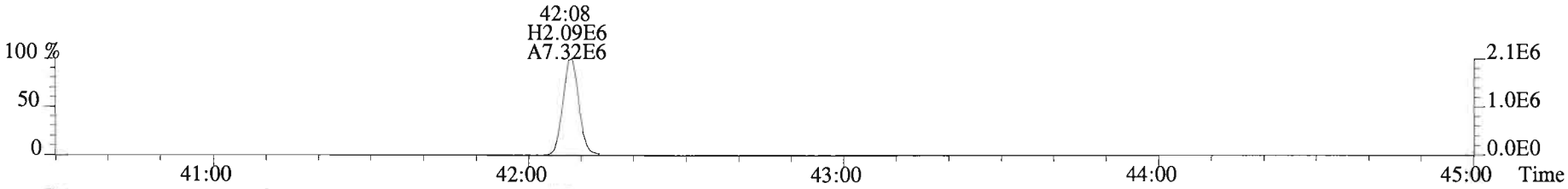
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



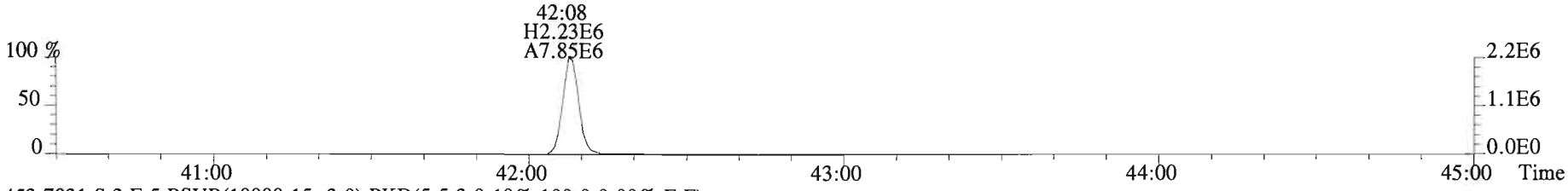
479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



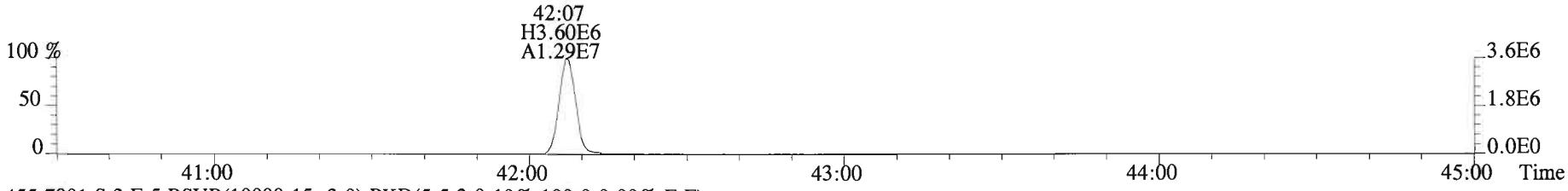
File:150130D3 #1-388 Acq:31-JAN-2015 10:46:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0101-BS1 OPR 10 Exp:OCDD_DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



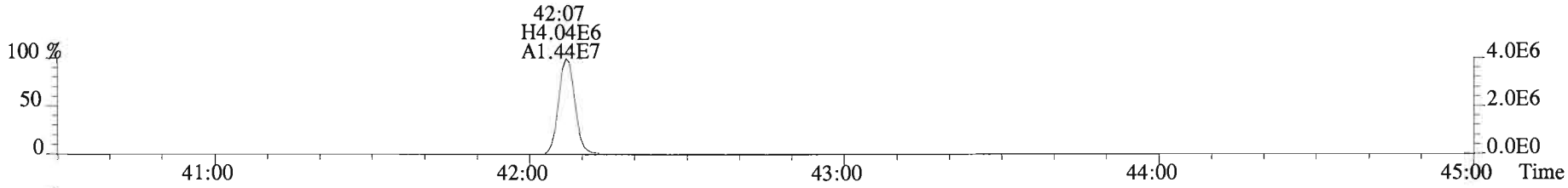
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



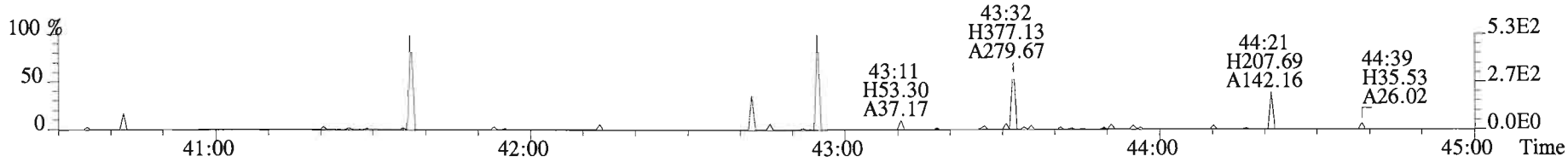
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Client ID: AS-CB-02-20150120-S Filename: 150203D1 S:3 Acq:3-FEB-15 10:13:12 ConCal: ST150203D1-1
Lab ID: 1500108-01 GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol:10.113 EndCAL: NA

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL
2,3,7,8-TCDD	7.08e+04	0.70 y	1.17	26:58	0.66450			* 2.5	*
1,2,3,7,8-PeCDD	3.07e-05	0.59 y	0.91	31:25	3.5710			* 2.5	*
1,2,3,4,7,8-HxCDD	3.86e+05	1.28 y	1.08	34:43	5.5037			* 2.5	*
1,2,3,6,7,8-HxCDD	2.47e+06	1.23 y	1.06	34:50	33.480			* 2.5	*
1,2,3,7,8,9-HxCDD	1.59e-06	1.27 y	0.93	35:08	22.465			* 2.5	*
1,2,3,4,6,7,8-HpCDD	3.21e+07	1.03 y	1.10	38:34	417.18			* 2.5	*
OCDD	1.53e+08	0.89 y	0.95	41:53	2538.8			* 2.5	*
2,3,7,8-TCDF	6.55e+05	0.77 y	1.07	26:13	4.8004	408		* 2.5	*
1,2,3,7,8-PeCDF	3.48e+05	1.60 y	1.07	30:15	2.6892			* 2.5	*
2,3,4,7,8-PeCDF	7.36e+05	1.61 y	1.03	31:08	5.9564			* 2.5	*
1,2,3,4,7,8-HxCDF	8.77e+05	1.27 y	1.38	33:50	6.8630			* 2.5	*
1,2,3,6,7,8-HxCDF	6.67e+05	1.27 y	1.26	33:57	5.3140			* 2.5	*
2,3,4,6,7,8-HxCDF	8.29e+05	1.34 y	1.29	34:34	7.2731			* 2.5	*
1,2,3,7,8,9-HxCDF	1.77e+05	1.21 y	1.19	35:33	1.8466			* 2.5	*
1,2,3,4,6,7,8-HpCDF	6.86e+06	1.05 y	1.61	37:21	63.737			* 2.5	*
1,2,3,4,7,8,9-HpCDF	4.33e+05	1.14 y	1.53	39:07	4.3121			* 2.5	*
OCDF	1.06e+07	0.90 y	1.10	42:07	141.38			* 2.5	*

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	31.1	32.7		*	*
Total Penta-Dioxins	45.0	45.0		*	*
Total Hexa-Dioxins	252	252		*	*
Total Hepta-Dioxins	888	888		*	*
Total Tetra-Furans	90.4	92.1		*	*
Total Penta-Furans	118.96	118.96		*	*
Total Hexa-Furans	118	118		*	*
Total Hepta-Furans	174	174		*	*

	Name	Resp	RA	RRF	RT	Conc	Qual	Rec	Qual
IS	13C-2,3,7,8-TCDD	1.78e+07	0.79 y	1.06	26:57	160.05		80.9	
IS	13C-1,2,3,7,8-PeCDD	1.87e+07	0.61 y	1.18	31:24	151.48		76.6	
IS	13C-1,2,3,4,7,8-HxCDD	1.29e+07	1.23 y	0.72	34:42	159.22		80.5	
IS	13C-1,2,3,6,7,8-HxCDD	1.37e+07	1.23 y	0.74	34:49	165.80		83.8	
IS	13C-1,2,3,7,8,9-HxCDD	1.51e+07	1.24 y	0.85	35:07	157.56		79.7	
IS	13C-1,2,3,4,6,7,8-HpCDD	1.38e+07	1.05 y	0.65	38:33	188.19		95.2	
IS	13C-OCDD	2.51e+07	0.88 y	0.76	41:52	292.87		74.0	
IS	13C-2,3,7,8-TCDF	2.52e-07	0.76 y	0.92	26:12	165.67		83.8	
IS	13C-1,2,3,7,8-PeCDF	2.38e+07	1.57 y	0.92	30:15	156.05		78.9	
IS	13C-2,3,4,7,8-PeCDF	2.35e-07	1.62 y	0.93	31:08	153.54		77.6	
IS	13C-1,2,3,4,7,8-HxCDF	1.83e+07	0.50 y	0.98	33:49	166.03		84.0	
IS	13C-1,2,3,6,7,8-HxCDF	1.97e+07	0.52 y	1.08	33:57	162.57		82.2	
IS	13C-2,3,4,6,7,8-HxCDF	1.75e+07	0.51 y	1.03	34:32	151.88		76.8	
IS	13C-1,2,3,7,8,9-HxCDF	1.60e+07	0.50 y	0.86	35:31	165.56		83.7	
IS	13C-1,2,3,4,6,7,8-HpCDF	1.32e+07	0.43 y	0.72	37:21	163.08		82.5	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.30e+07	0.45 y	0.70	39:06	166.35		84.1	
IS	13C-OCDF	2.70e-07	0.86 y	0.85	42:06	283.48		71.7	
C/Sp	37Cl-2,3,7,8-TCDD	8.22e+06		1.12	26:58	70.190		88.7	
RS/RT	13C-1,2,3,4-TCDD	2.07e-07	0.82 y	1.00	26:24	197.76			
RS	13C-1,2,3,4-TCDF	3.28e+07	0.77 y	1.00	25:00	197.76			
RS/RT	13C-1,2,3,4,6,9-PxCDF	2.22e-07	0.51 y	1.00	34:14	197.76			

Integrations by Analyst: DMS Date: 2/4/15

Reviewed by Analyst: Date: 2/5/15

Totals class: TCDD EMPC Entry #: 19

Run: 8 File: 150203D1 S: 3 I: 1 F: 1
Acquired: 3-FEB-15 10:13:12 Processed: 4-FEB-15 07:54:07

Total Concentration: 32.721 Unnamed Concentration: 32.057

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
23:38	5.272e+05	6.913e+05	0.76	y	1.219e+06	11.563	
24:00	3.137e+05	4.187e+05	0.75	y	7.325e+05	6.9504	
24:24	5.045e+04	5.502e+04	0.92	n	9.739e+04	0.92411	
25:07	2.620e+04	3.757e+04	0.70	y	6.377e+04	0.60515	
25:20	1.218e+05	1.520e+05	0.80	y	2.738e+05	2.5981	
25:31	8.628e+04	1.244e+05	0.69	y	2.107e+05	1.9992	
25:41	3.150e+04	5.130e+04	0.61	n	7.240e+04	0.68700	
25:55	1.211e+04	1.761e+04	0.69	y	2.972e+04	0.28197	
26:03	4.017e+04	5.751e+04	0.70	y	9.768e+04	0.92693	
26:25	8.201e+04	1.137e+05	0.72	y	1.957e+05	1.8566	
26:43	1.099e+05	1.490e+05	0.74	y	2.589e+05	2.4568	
26:51	1.504e+04	1.997e+04	0.75	y	3.501e+04	0.33221	
26:58	2.892e+04	4.111e+04	0.70	y	7.003e+04	0.66450	2,3,7,8-TCDD
27:14	2.870e+04	3.773e+04	0.76	y	6.643e+04	0.63033	
27:49	1.128e+04	1.451e+04	0.78	y	2.580e+04	0.24481	

Totals class: PeCDD EMPC Entry #: 21

Run: 8 File: 150203D1 S: 3 I: 1 F: 2
Acquired: 3-FEB-15 10:13:12 Processed: 4-FEB-15 07:54:07

Total Concentration: 45.044 Unnamed Concentration: 41.473

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
29:23	3.928e+05	6.497e+05	0.60	y	1.043e+06	12.130	
29:49	7.470e+04	1.266e+05	0.59	y	2.013e+05	2.3419	
30:16	2.625e+05	4.258e+05	0.62	y	6.883e+05	8.0082	
30:25	9.738e+04	1.651e+05	0.59	y	2.625e+05	3.0536	
30:30	1.928e+05	3.004e+05	0.64	y	4.932e+05	5.7384	
30:43	1.246e+05	1.992e+05	0.63	y	3.239e+05	3.7681	
31:01	1.428e+05	2.111e+05	0.68	y	3.539e+05	4.1173	
31:25	1.138e+05	1.932e+05	0.59	y	3.069e+05	3.5710	1,2,3,7,8-PeCDD
31:29	3.465e+04	5.511e+04	0.63	y	8.976e+04	1.0444	
31:46	4.031e+04	6.899e+04	0.58	y	1.093e+05	1.2716	

Totals class: HxCDD EMPC Entry #: 23

Run: 8 File: 150203D1 S: 3 I: 1 F: 3
Acquired: 3-FEB-15 10:13:12 Processed: 4-FEB-15 07:54:07

Total Concentration: 252.27 Unnamed Concentration: 190.825

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
33:10	1.970e+06	1.578e+06	1.25	y	3.549e+06	49.612	
33:45	1.210e+06	9.558e+05	1.27	y	2.165e+06	30.272	
34:00	4.077e+06	3.264e+06	1.25	y	7.341e+06	102.62	
34:08	1.965e+05	1.465e+05	1.34	y	3.430e+05	4.7953	
34:43	2.166e+05	1.693e+05	1.28	y	3.858e+05	5.5037	1,2,3,4,7,8-HxCDD
34:50	1.361e+06	1.107e+06	1.23	y	2.467e+06	33.480	1,2,3,6,7,8-HxCDD
35:02	1.403e+05	1.121e+05	1.25	y	2.524e+05	3.5278	
35:08	8.927e+05	7.023e+05	1.27	y	1.595e+06	22.465	1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC Entry #: 25

Run: 8 File: 150203D1 S: 3 I: 1 F: 4
Acquired: 3-FEB-15 10:13:12 Processed: 4-FEB-15 07:54:07

Total Concentration: 887.80 Unnamed Concentration: 470.616

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
37:44	1.841e+07	1.784e+07	1.03 y	3.626e+07	470.62	
38:34	1.628e+07	1.586e+07	1.03 y	3.214e+07	417.18	1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC Entry #: 27

Run: 8 File: 150203D1 S: 3 I: 1 F: 1
Acquired: 3-FEB-15 10:13:12 Processed: 4-FEB-15 07:54:07

Total Concentration: 92.068 Unnamed Concentration: 87.268

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
21:33	9.792e+04	1.371e+05	0.71	y	2.350e+05	1.7229	
22:08	1.702e+05	2.233e+05	0.76	y	3.935e+05	2.8845	
22:45	5.989e+05	7.800e+05	0.77	y	1.379e+06	10.108	
23:15	5.588e+05	7.054e+05	0.79	y	1.264e+06	9.2677	
23:37	4.901e+05	6.239e+05	0.79	y	1.114e+06	8.1663	
24:02	3.651e+05	4.521e+05	0.81	y	8.171e+05	5.9902	
24:09	1.709e+05	2.264e+05	0.75	y	3.973e+05	2.9128	
24:19	2.364e+05	2.956e+05	0.80	y	5.320e+05	3.8997	
24:39	1.023e+05	1.443e+05	0.71	y	2.466e+05	1.8076	
24:46	1.674e+05	2.189e+05	0.76	y	3.862e+05	2.8314	
24:54	4.202e+05	5.311e+05	0.79	y	9.513e+05	6.9736	
25:02	4.031e+05	5.546e+05	0.73	y	9.577e+05	7.0202	
25:25	2.285e+05	3.050e+05	0.75	y	5.335e+05	3.9107	
25:31	3.737e+04	3.835e+04	0.97	n	6.788e+04	0.49758	
25:40	1.570e+05	1.972e+05	0.80	y	3.542e+05	2.5968	
25:50	1.319e+05	1.856e+05	0.71	y	3.175e+05	2.3275	
26:00	1.504e+05	1.867e+05	0.81	y	3.371e+05	2.4710	
26:07	1.215e+05	1.517e+05	0.80	y	2.732e+05	2.0028	
26:13	2.840e+05	3.709e+05	0.77	y	6.548e+05	4.8004	2,3,7,8-TCDF
26:32	4.463e+05	5.750e+05	0.78	y	1.021e+06	7.4871	
26:44	4.040e+04	5.643e+04	0.72	y	9.682e+04	0.70978	
26:59	2.102e+04	3.203e+04	0.66	y	5.305e+04	0.38892	
27:30	8.852e+03	1.335e+04	0.66	y	2.220e+04	0.16274	
27:40	4.446e+04	3.264e+04	1.36	n	5.778e+04	0.42353	
27:56	5.951e+04	5.431e+04	1.10	n	9.612e+04	0.70465	

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 8 File: 150203D1 S: 3 I: 1 F: 1
Acquired: 3-FEB-15 10:13:12 Processed: 4-FEB-15 07:54:07

Total Concentration: 48.201 Unnamed Concentration: 48.201

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
27:55	3.701e+06	2.396e+06	1.54	y	6.097e+06	48.201	

Totals class: PeCDF EMPC Entry #: 31

Run: 8 File: 150203D1 S: 3 I: 1 F: 2
Acquired: 3-FEB-15 10:13:12 Processed: 4-FEB-15 07:54:07

Total Concentration: 70.759 Unnamed Concentration: 62.114

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
29:13	5.770e+05	3.684e+05	1.57	y	9.454e+05	7.4737	
29:21	2.092e+06	1.265e+06	1.65	y	3.357e+06	26.535	
29:42	1.180e+05	6.979e+04	1.69	y	1.877e+05	1.4842	
29:53	8.852e+05	5.427e+05	1.63	y	1.428e+06	11.288	
30:05	1.472e+05	8.456e+04	1.74	y	2.317e+05	1.8320	
30:15	2.141e+05	1.339e+05	1.60	y	3.480e+05	2.6892	1,2,3,7,8-PeCDF
30:30	4.169e+05	2.581e+05	1.62	y	6.750e+05	5.3357	
30:36	2.902e+04	2.031e+04	1.43	y	4.933e+04	0.38995	
30:57	3.686e+04	2.398e+04	1.54	y	6.084e+04	0.48096	
31:03	2.932e+05	1.782e+05	1.64	y	4.714e+05	3.7264	
31:08	4.545e+05	2.819e+05	1.61	y	7.364e+05	5.9564	2,3,4,7,8-PeCDF
31:11	2.168e+05	1.233e+05	1.76	y	3.401e+05	2.6884	
31:25	2.990e+04	1.818e+04	1.64	y	4.808e+04	0.38010	
32:00	3.967e+04	2.356e+04	1.68	y	6.322e+04	0.49978	

Totals class: HxCDF EMPC Entry #: 33

Run: 8 File: 150203D1 S: 3 I: 1 F: 3
Acquired: 3-FEB-15 10:13:12 Processed: 4-FEB-15 07:54:07

Total Concentration: 117.78 Unnamed Concentration: 96.484

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
32:38	8.149e+05	6.150e+05	1.33	y	1.430e+06	12.351	
32:48	2.874e+06	2.223e+06	1.29	y	5.098e+06	44.035	
33:00	5.615e+04	4.483e+04	1.25	y	1.010e+05	0.87223	
33:10	1.018e+05	9.220e+04	1.10	y	1.940e+05	1.6758	
33:21	2.049e+06	1.549e+06	1.32	y	3.598e+06	31.081	
33:44	2.762e+05	2.267e+05	1.22	y	5.029e+05	4.3439	
33:50	4.912e+05	3.862e+05	1.27	y	8.774e+05	6.8630	1,2,3,4,7,8-HxCDF
33:57	3.732e+05	2.939e+05	1.27	y	6.671e+05	5.3140	1,2,3,6,7,8-HxCDF
34:06	3.623e+04	2.672e+04	1.36	y	6.295e+04	0.54378	
34:14	4.917e+04	4.292e+04	1.15	y	9.208e+04	0.79539	
34:22	5.077e+04	4.024e+04	1.26	y	9.101e+04	0.78616	
34:34	4.744e+05	3.542e+05	1.34	y	8.287e+05	7.2731	2,3,4,6,7,8-HxCDF
35:33	9.703e+04	7.991e+04	1.21	y	1.769e+05	1.8466	1,2,3,7,8,9-HxCDF

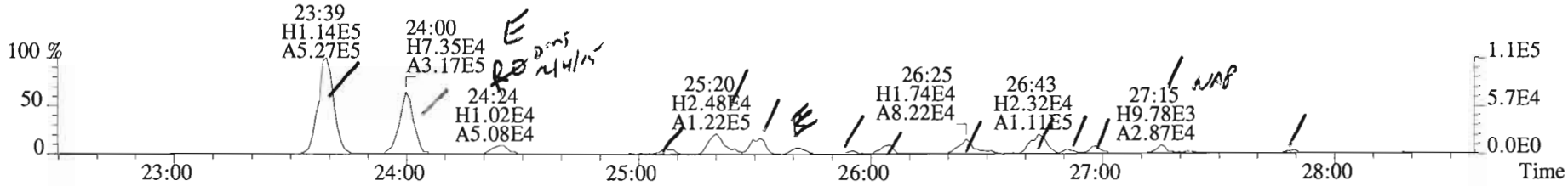
Totals class: HpCDF EMPC Entry #: 35

Run: 8 File: 150203D1 S: 3 I: 1 F: 4
Acquired: 3-FEB-15 10:13:12 Processed: 4-FEB-15 07:54:07

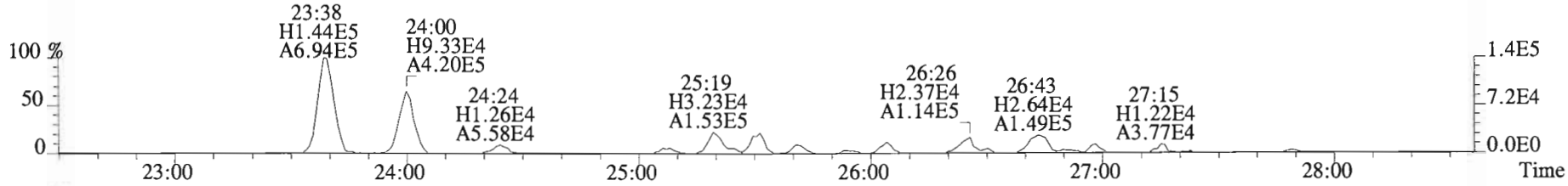
Total Concentration: 173.91 Unnamed Concentration: 105.857

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
37:21	3.510e+06	3.347e+06	1.05	y	6.857e+06	63.737	1,2,3,4,6,7,8-HpCDF
37:44	1.690e+05	1.735e+05	0.97	y	3.425e+05	3.2942	
37:55	5.484e+06	5.180e+06	1.06	y	1.066e+07	102.56	
39:07	2.307e+05	2.020e+05	1.14	y	4.327e+05	4.3121	1,2,3,4,7,8,9-HpCDF

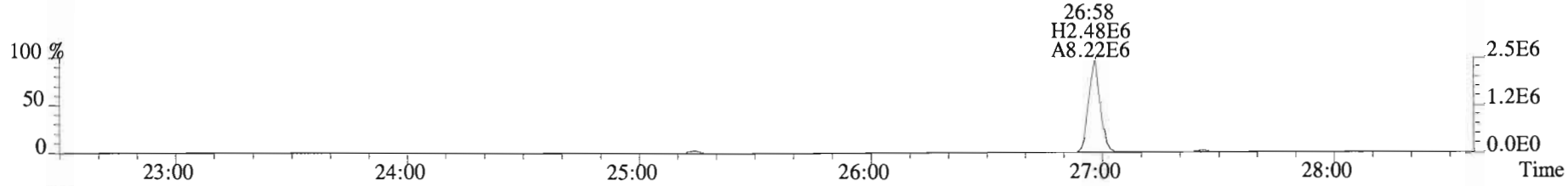
File:150203D1 #1-551 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01 AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



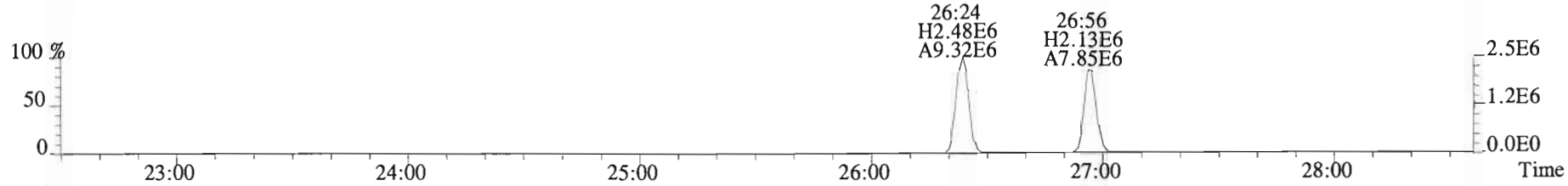
321.8936 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



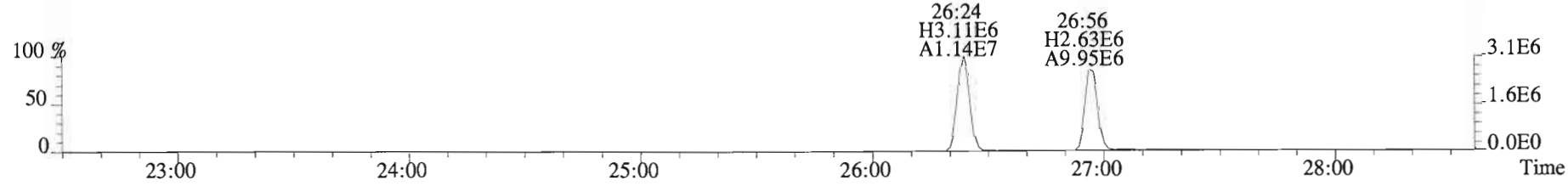
327.8847 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



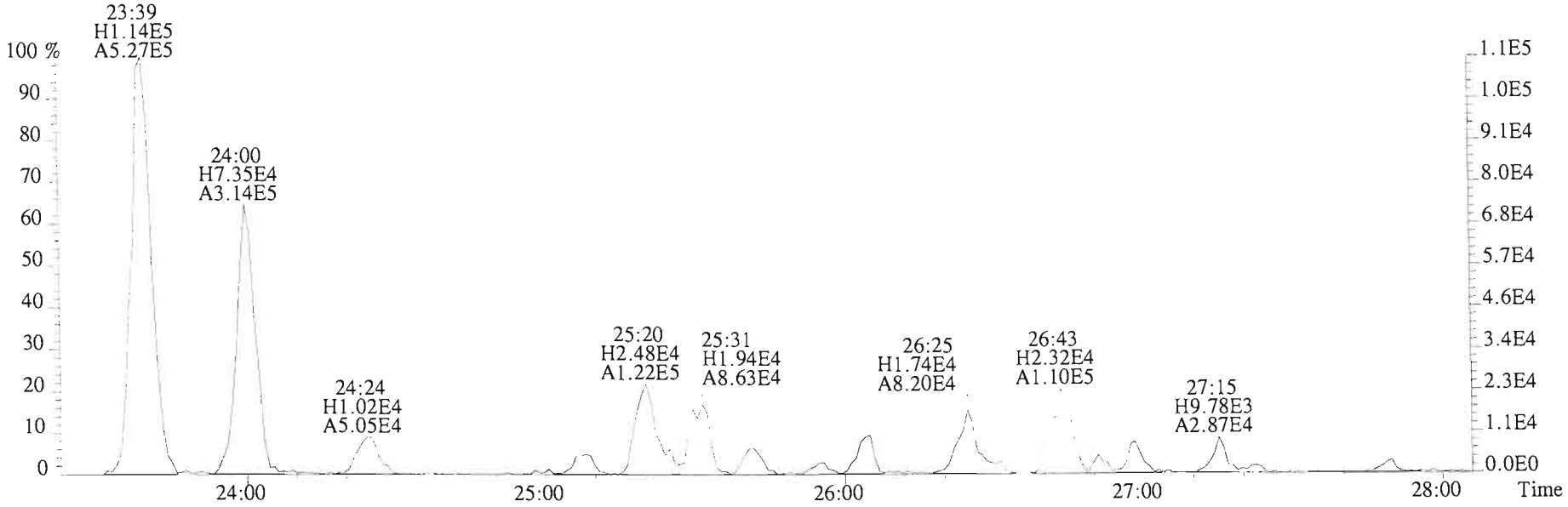
331.9368 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



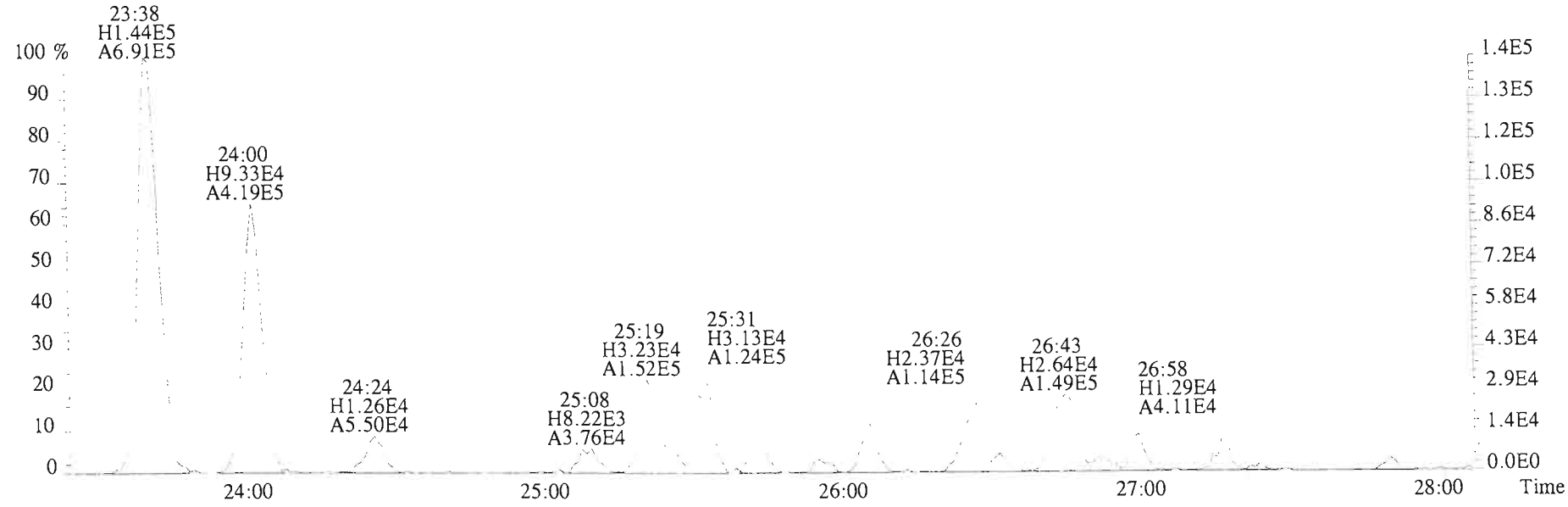
333.9339 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



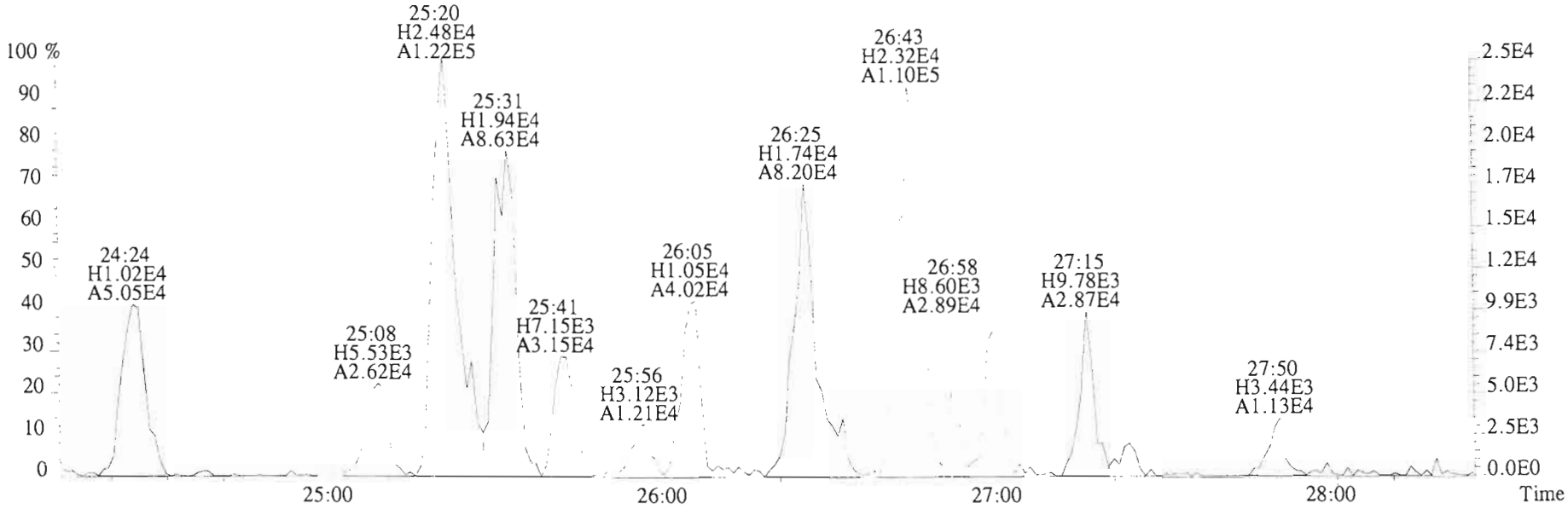
File:150203D1 #1-551 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



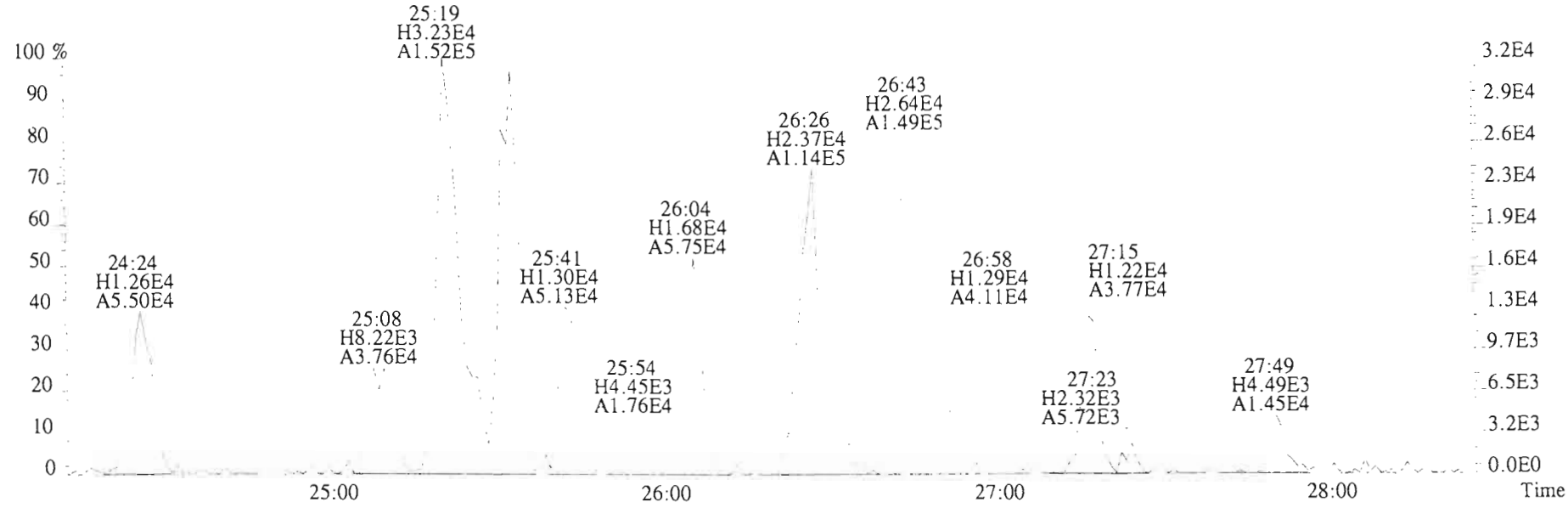
321.8936 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



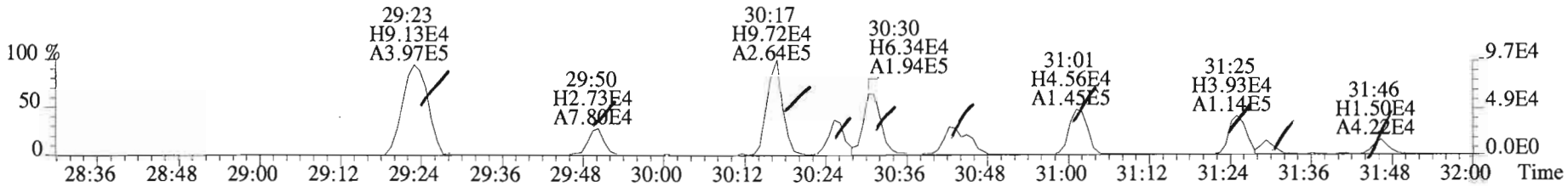
File:150203D1 #1-551 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



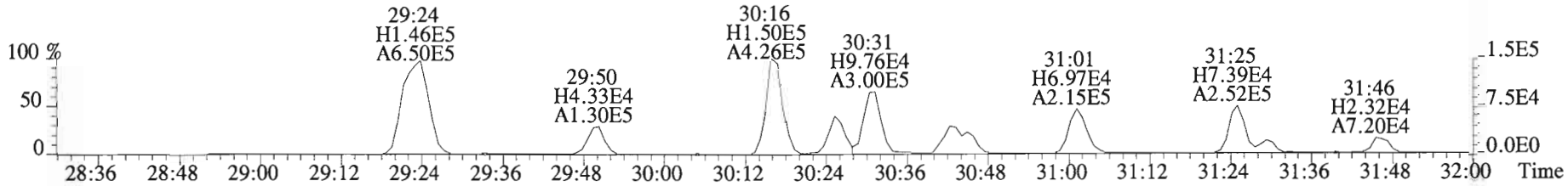
321.8936 S:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F)



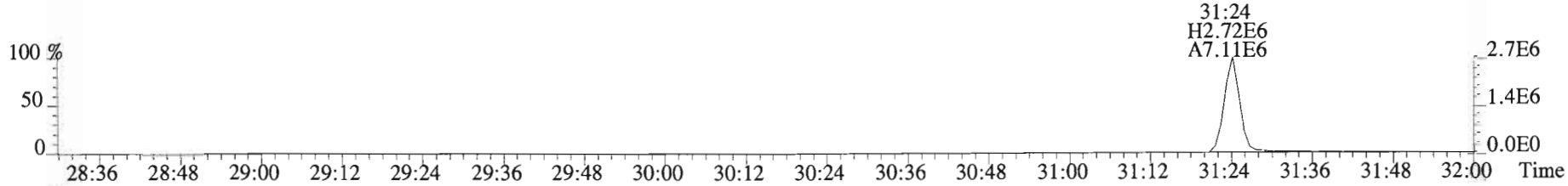
File:150203D1 #1-251 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01 AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
353.8576 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



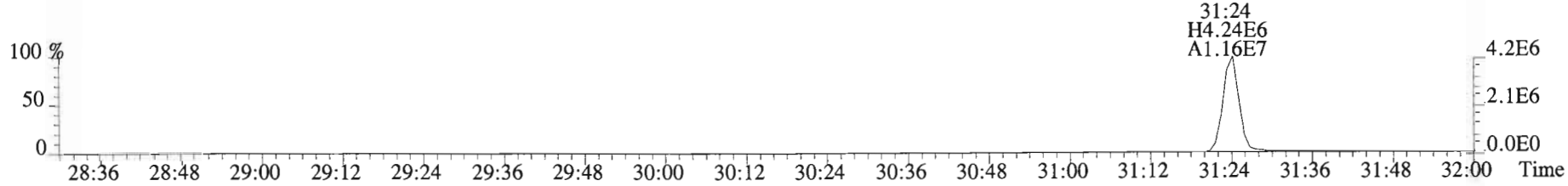
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



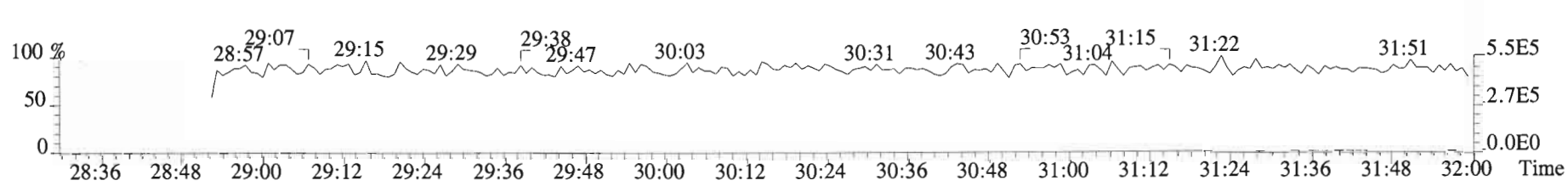
365.8978 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



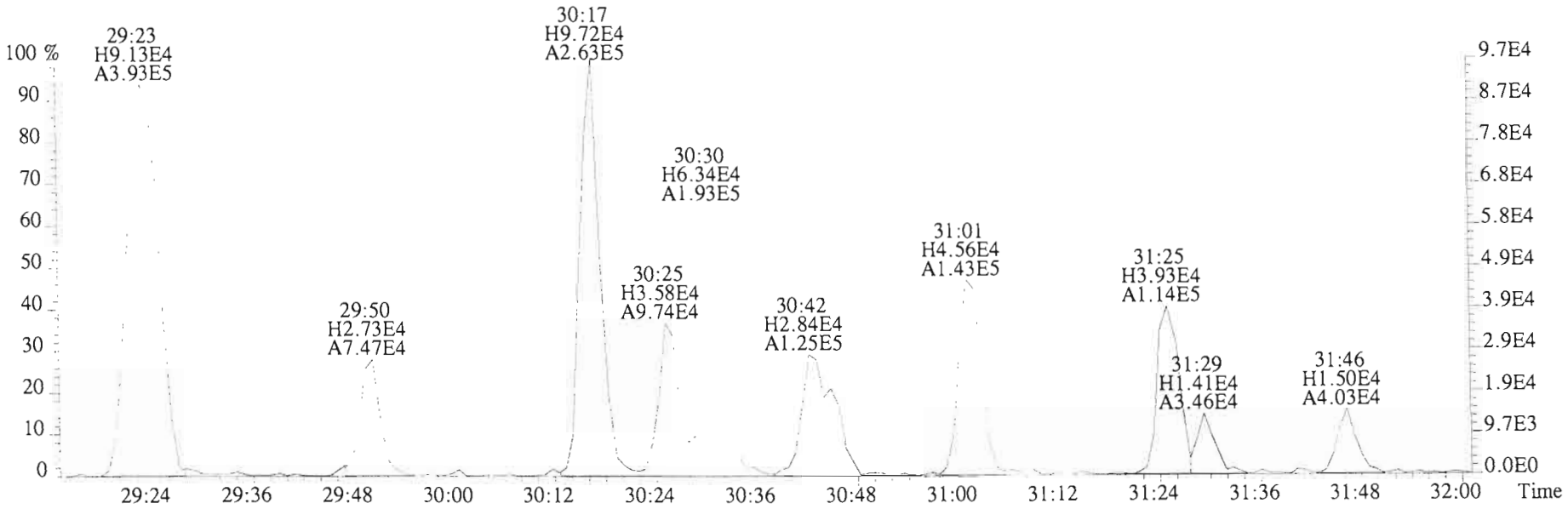
367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



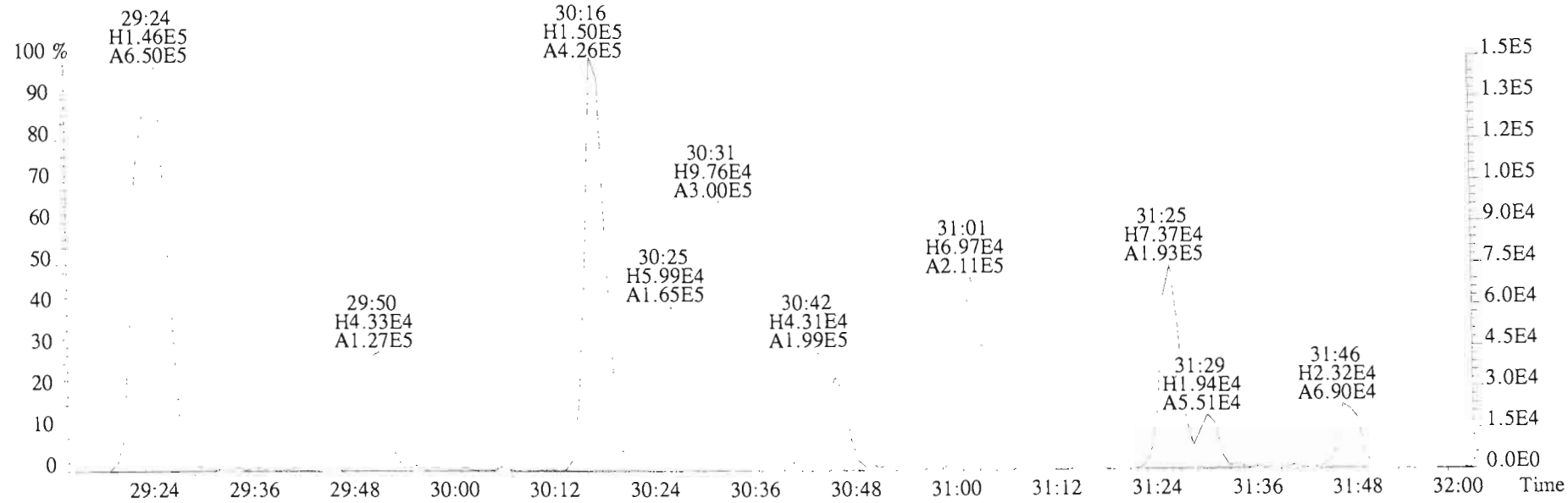
366.9792 S:3 F:2



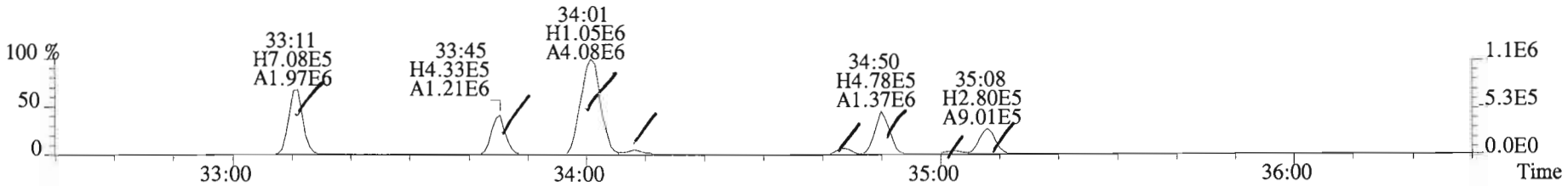
File:150203D1 #1-251 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
353.8576 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



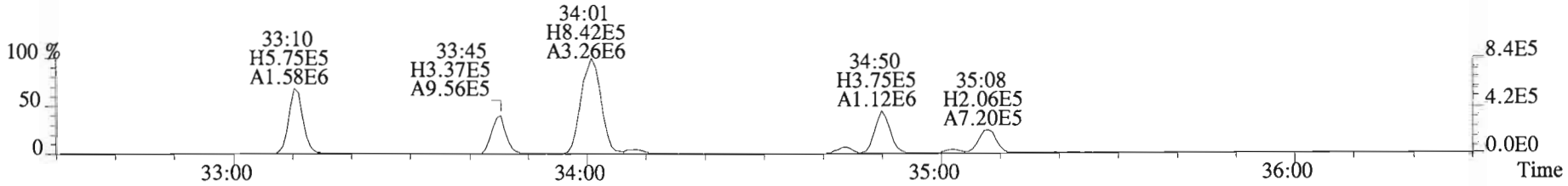
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



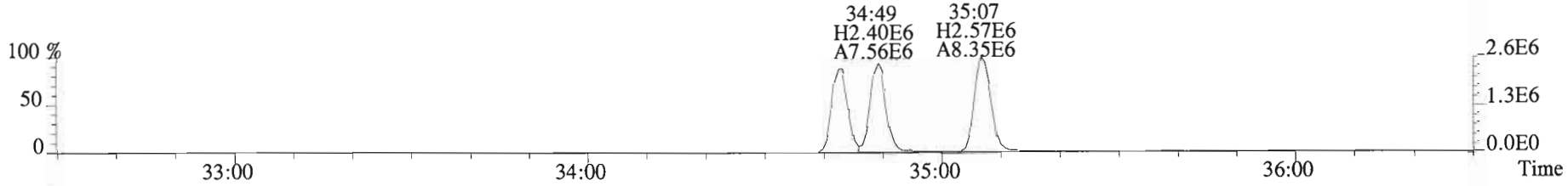
File:150203D1 #1-392 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01 AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



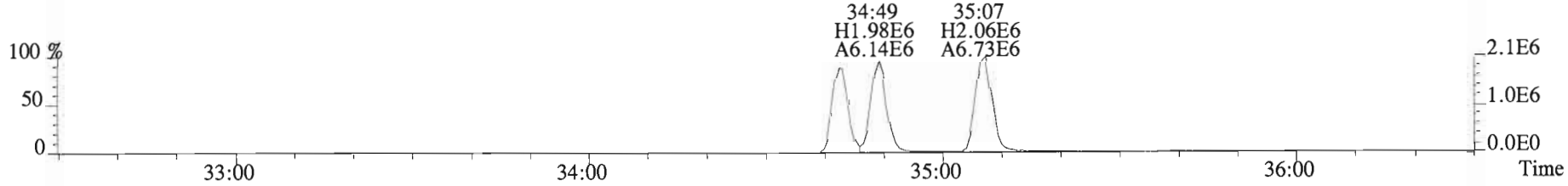
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



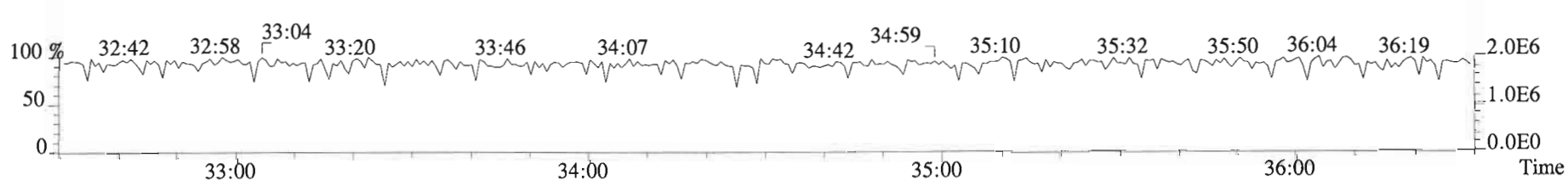
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



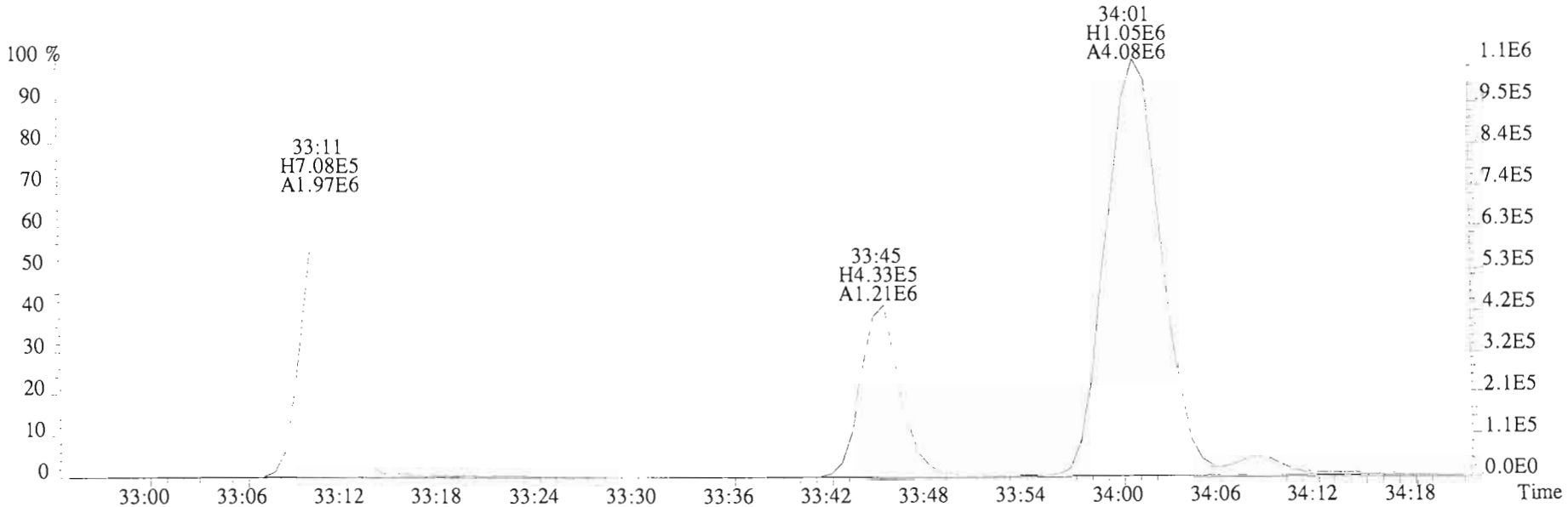
403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



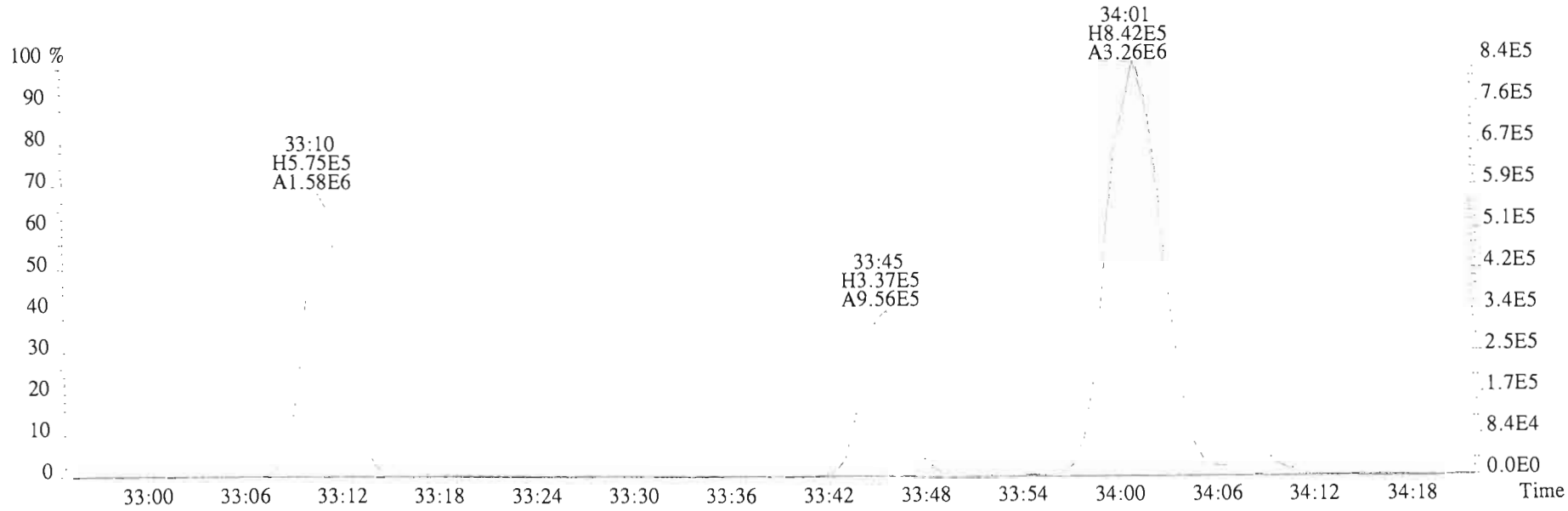
380.9760 S:3 F:3



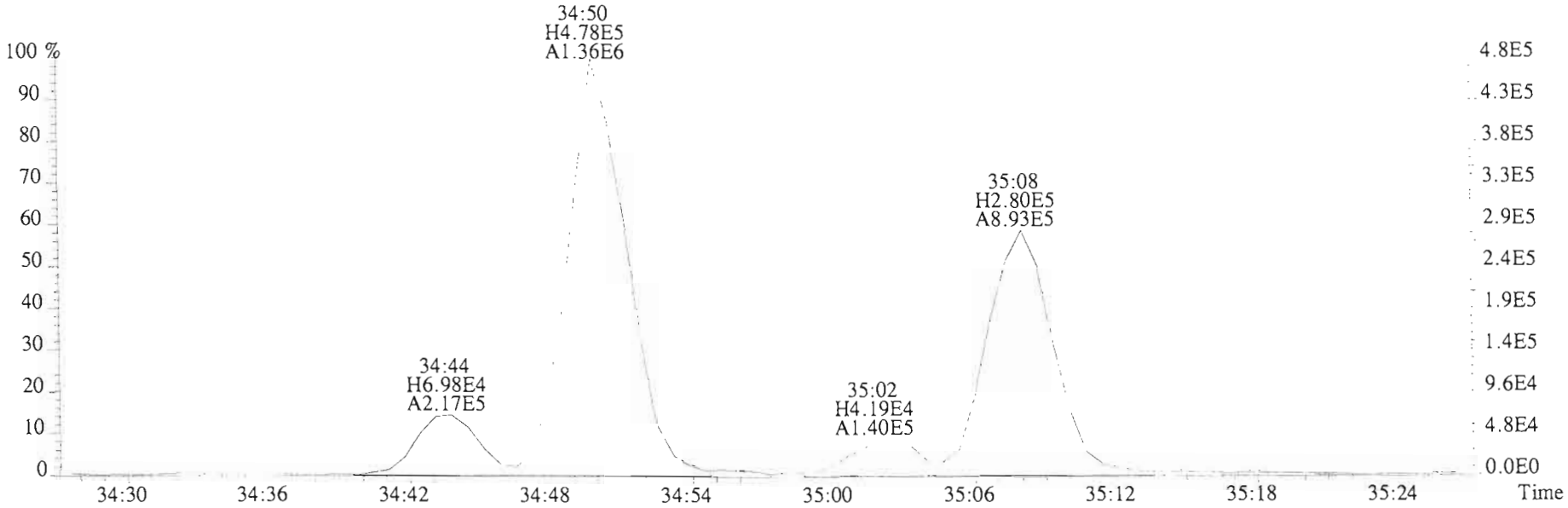
File:150203D1 #1-392 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



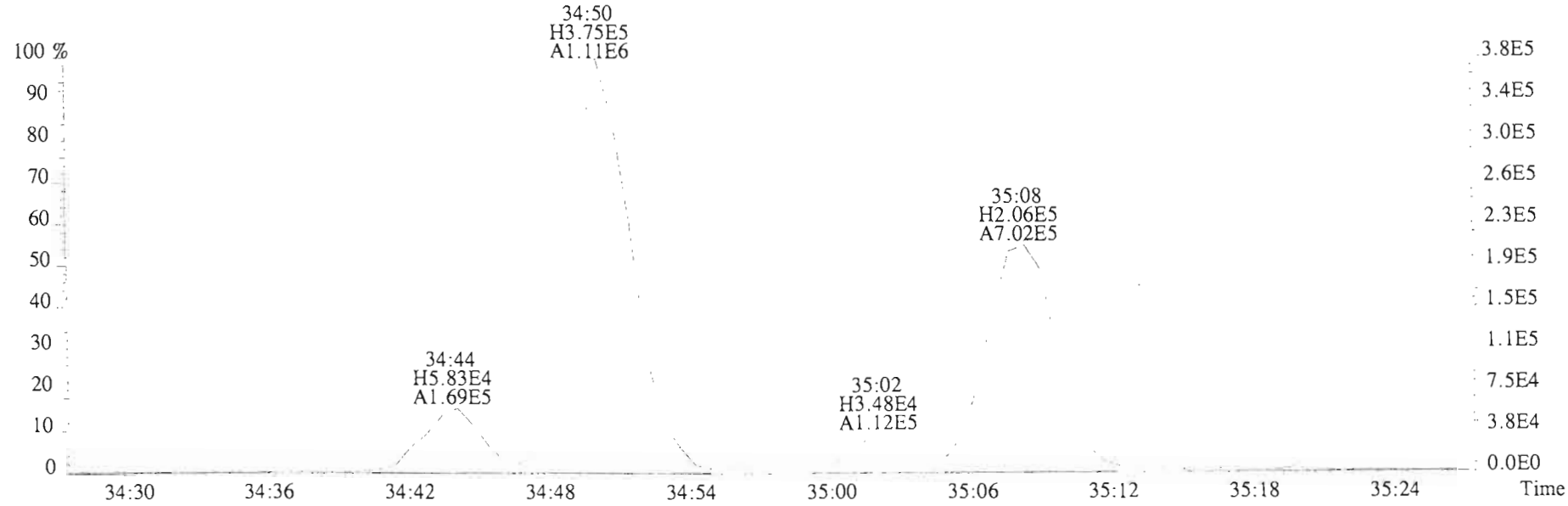
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



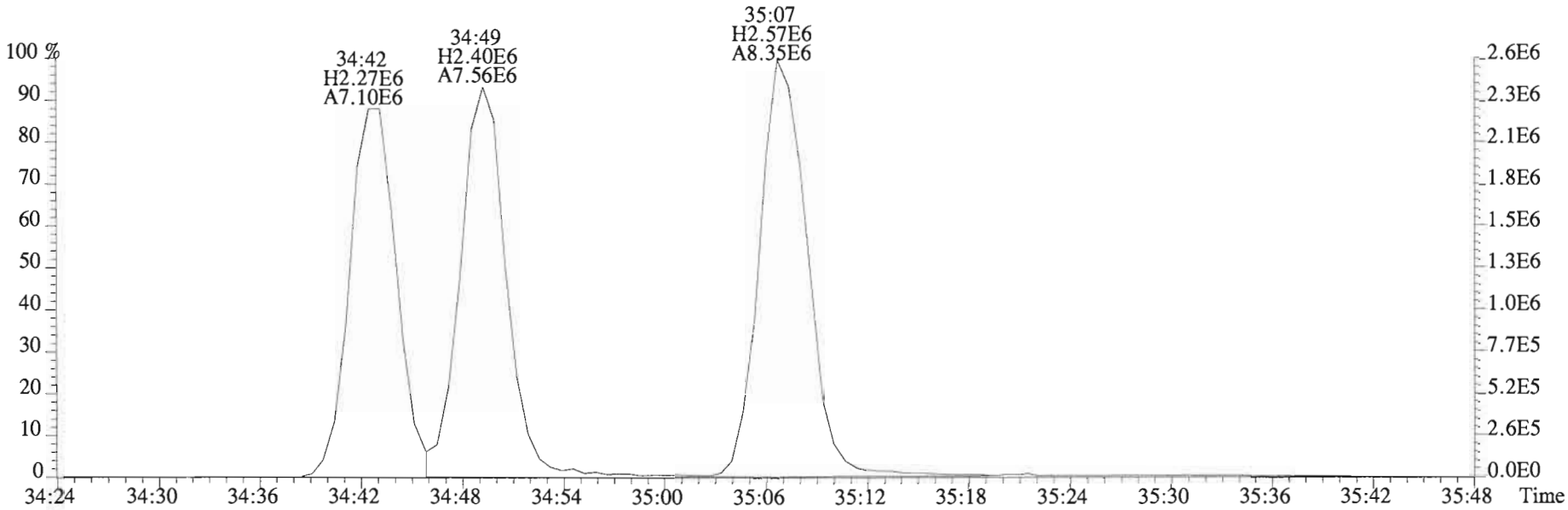
File:150203D1 #1-392 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



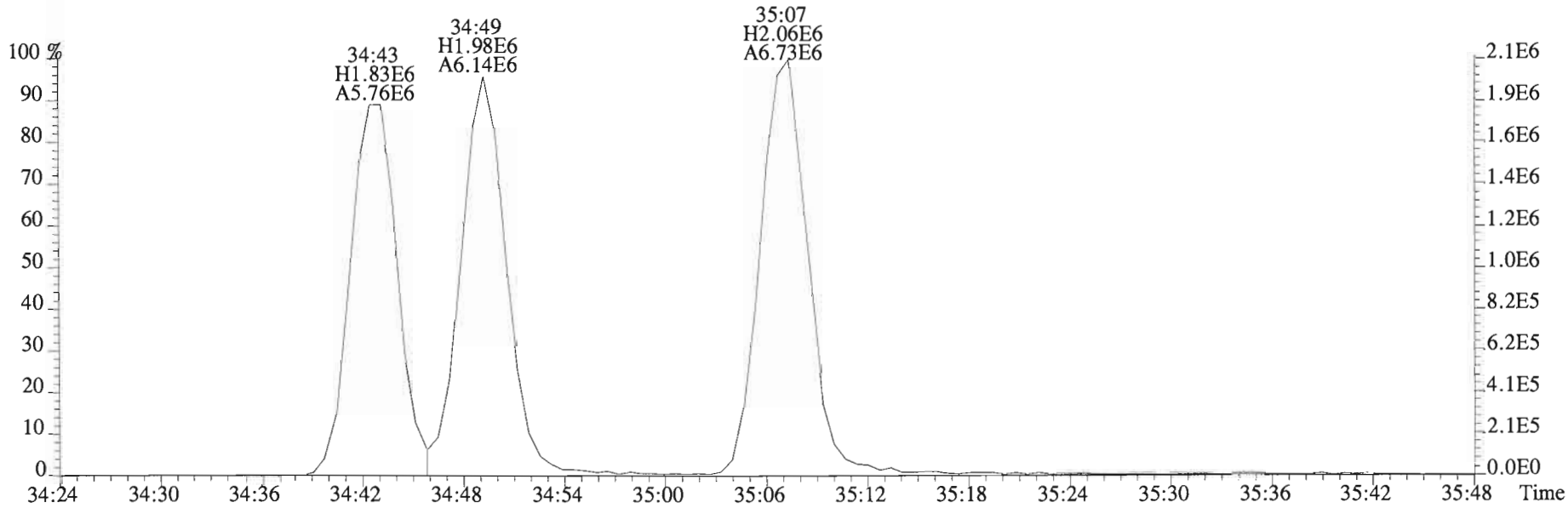
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



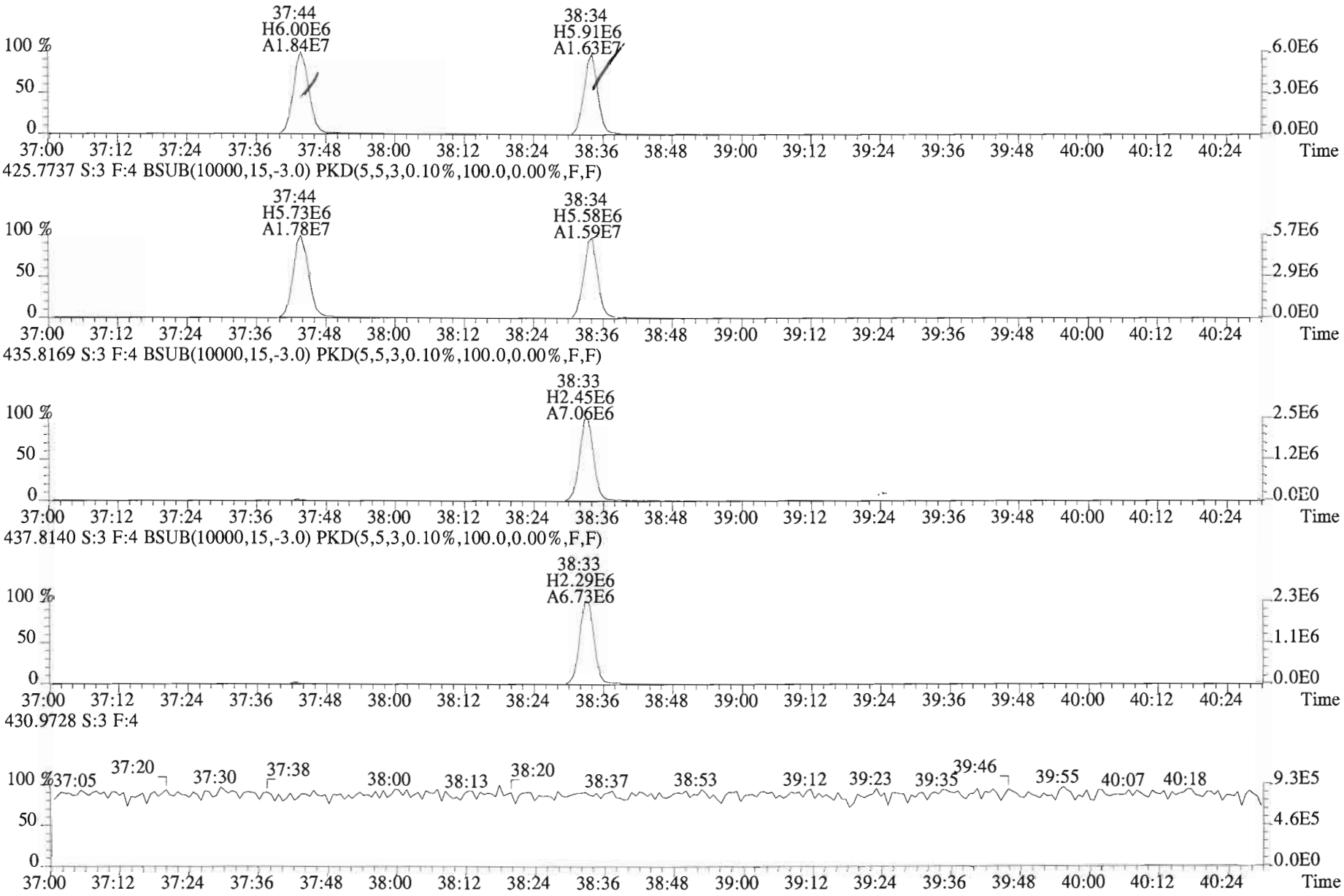
File:150203D1 #1-392 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01 AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



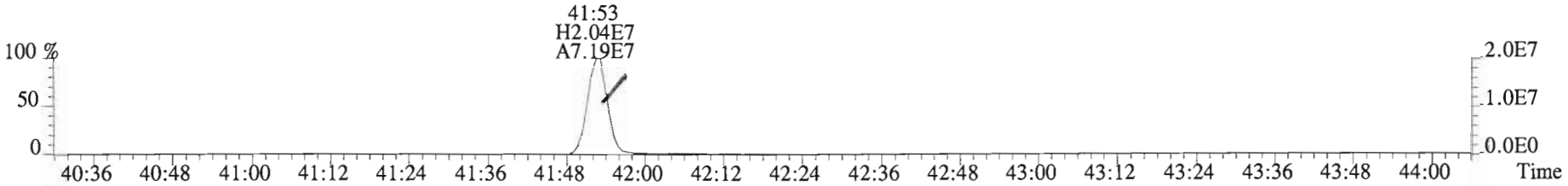
403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



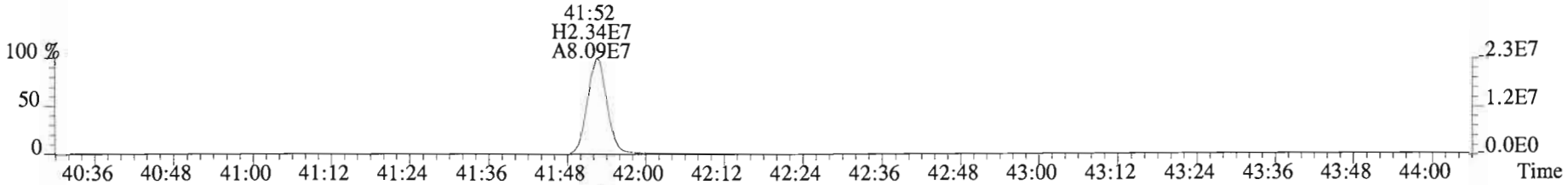
File:150203D1 #1-326 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01 AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5



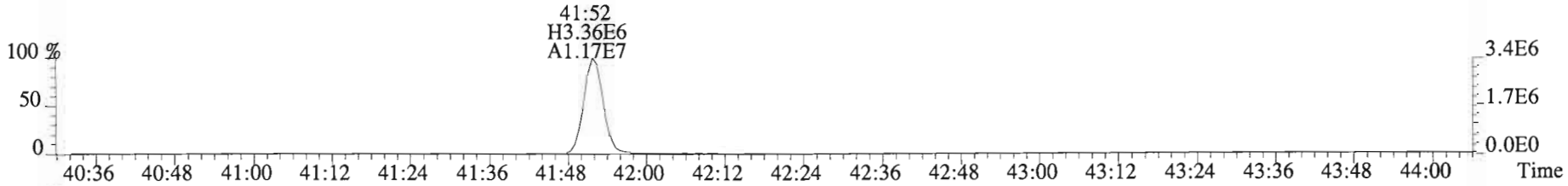
File:150203D1 #1-388 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01 AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



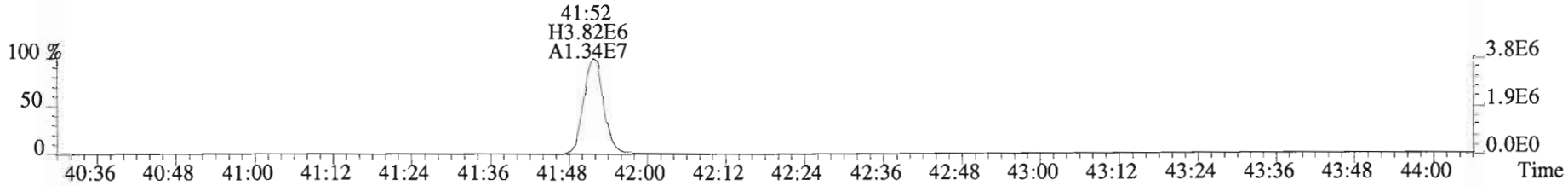
459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



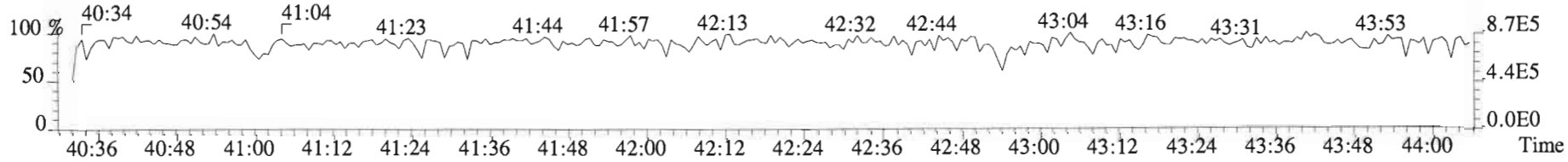
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

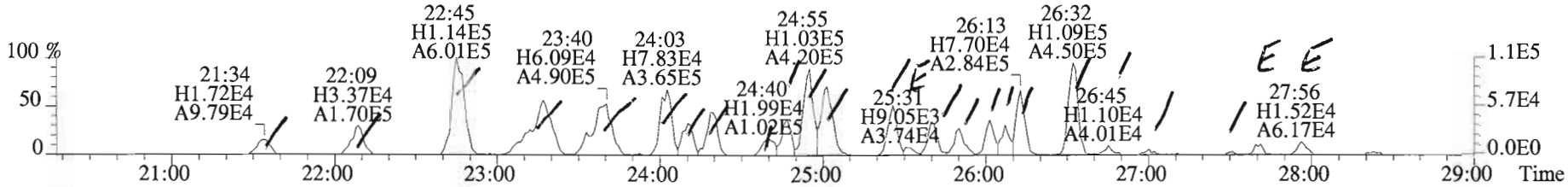


454.9728 S:3 F:5

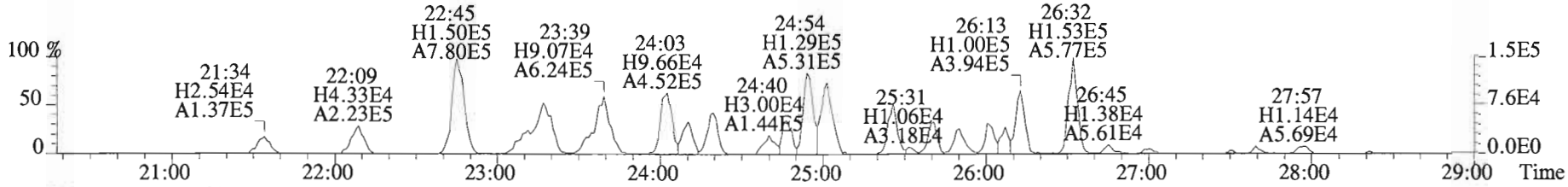


File:150203D1 #1-551 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01 AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5

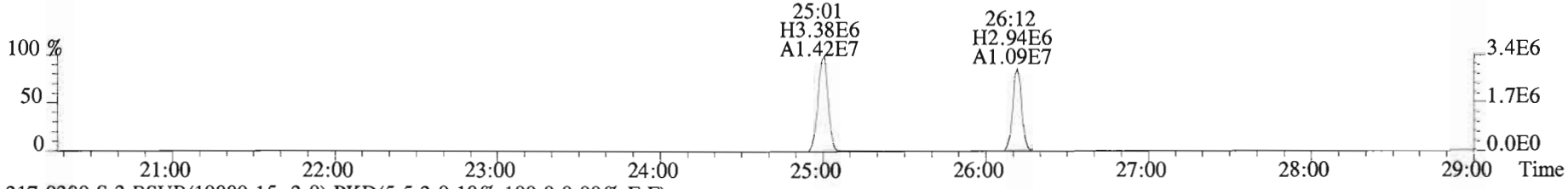
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



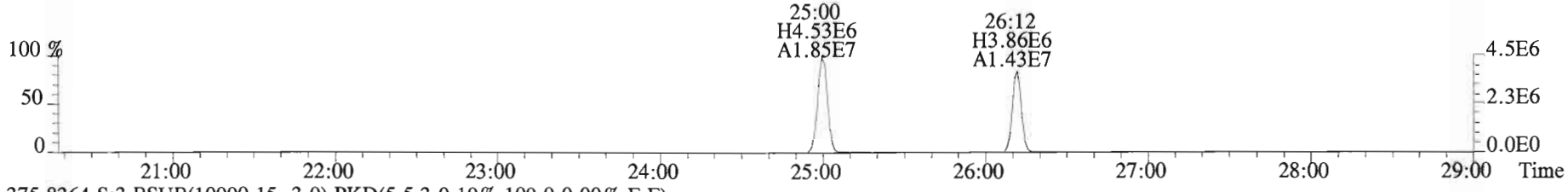
305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



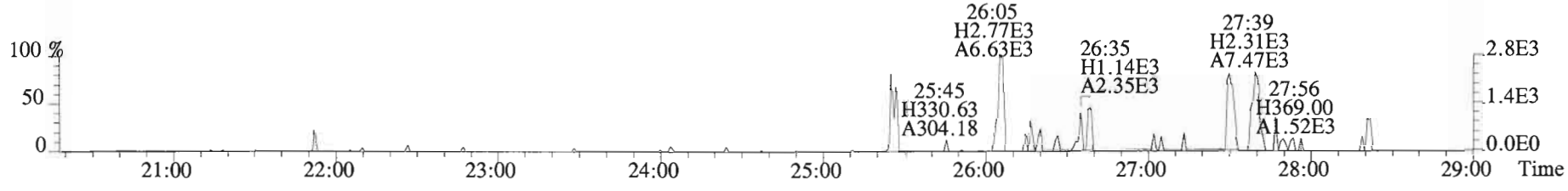
315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



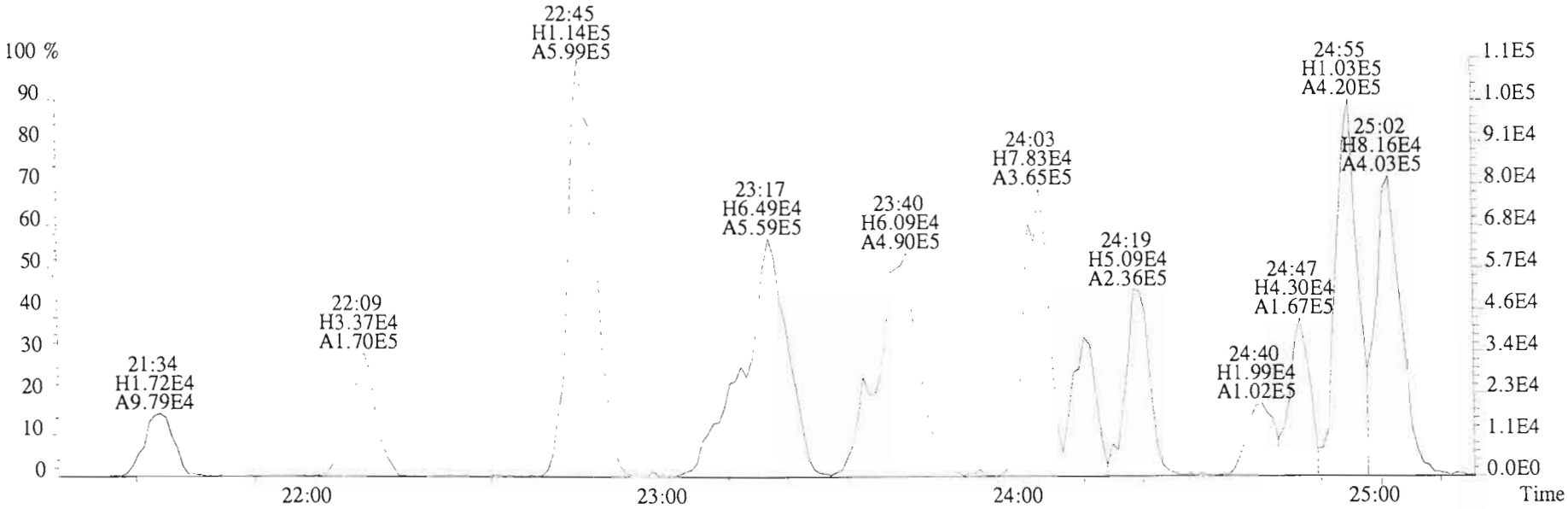
317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



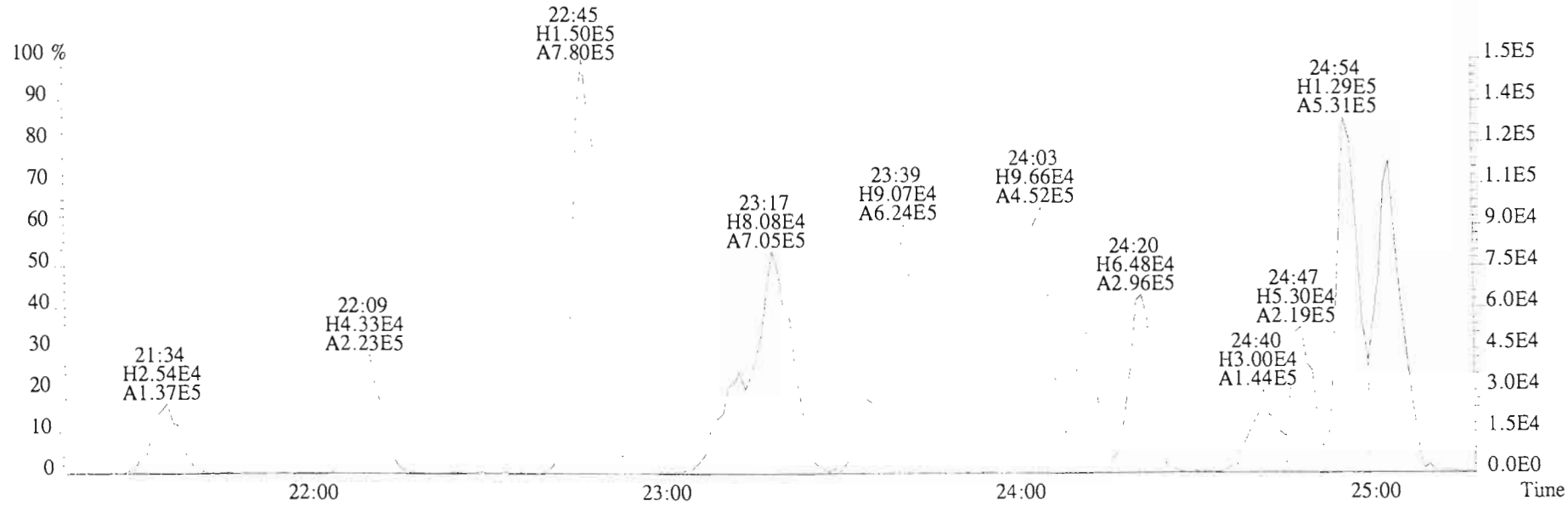
375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



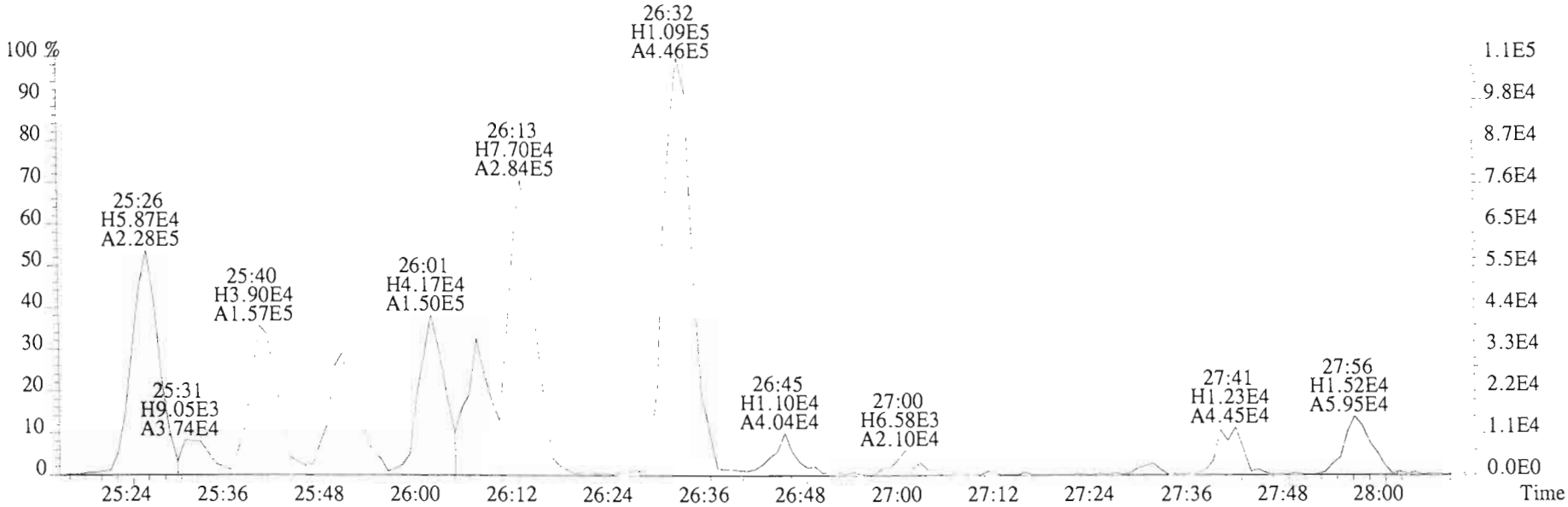
File:150203D1 #1-551 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



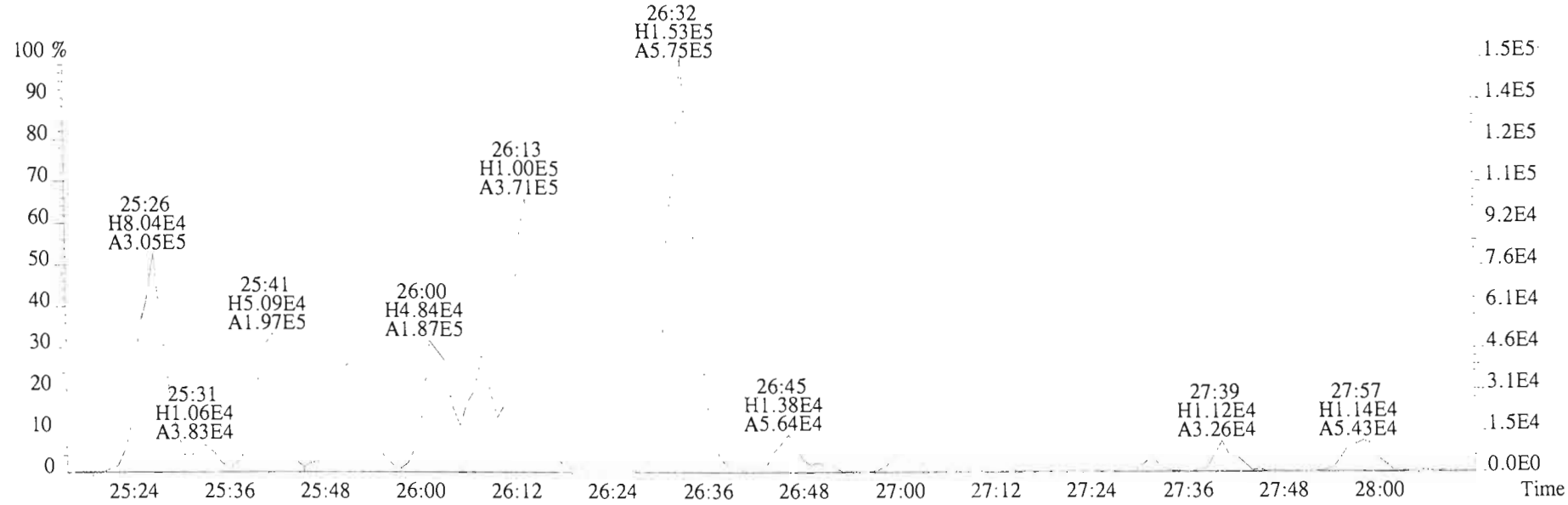
305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



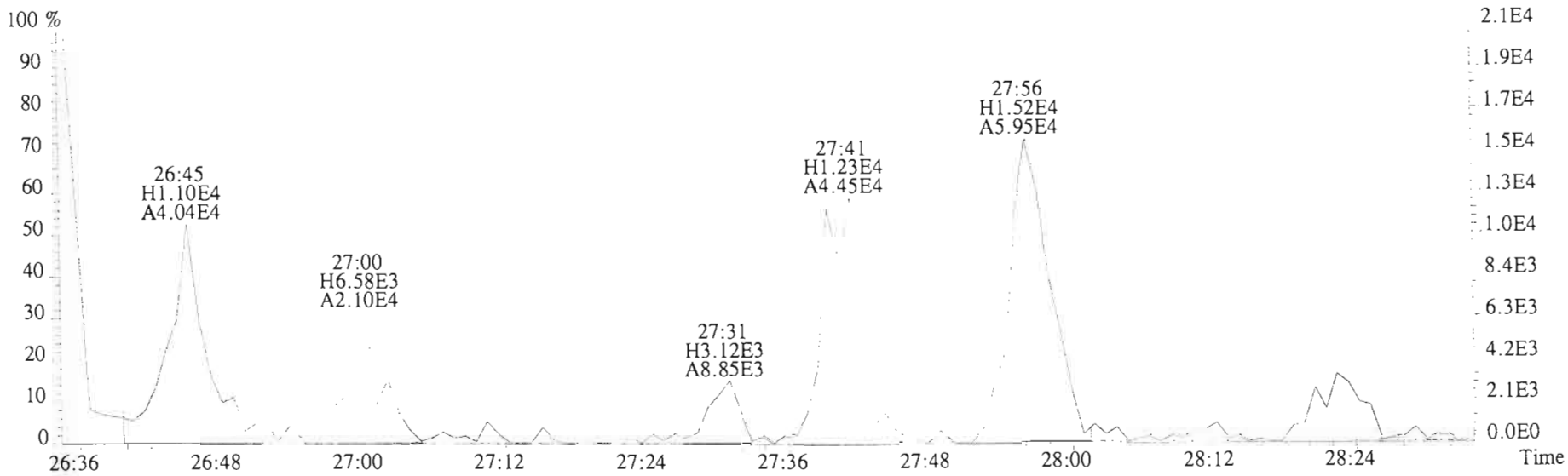
File:150203D1 #1-551 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



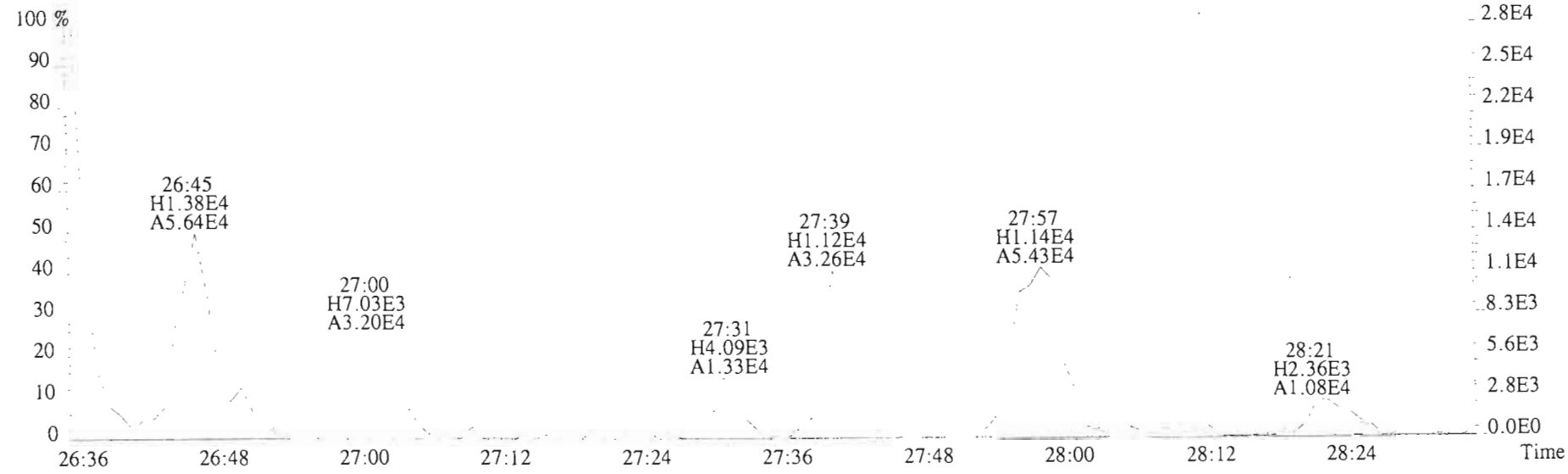
305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



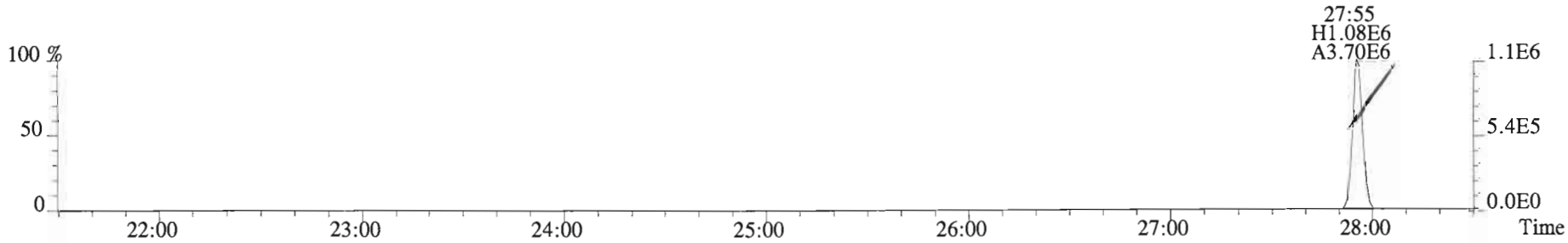
File:150203D1 #1-551 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



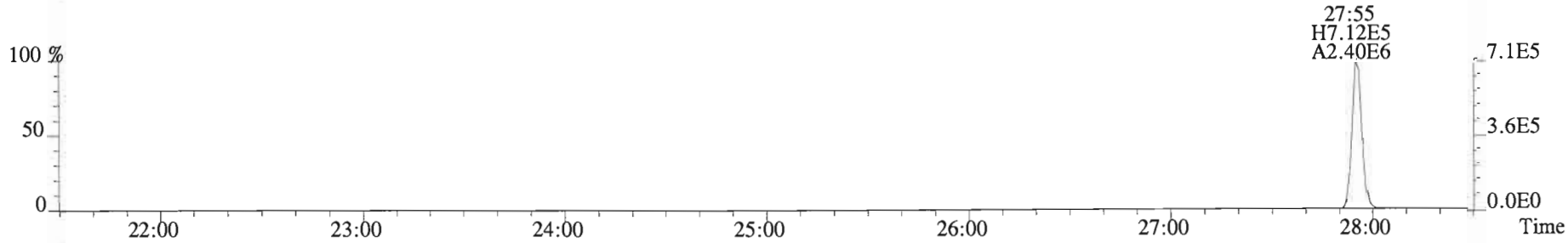
305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



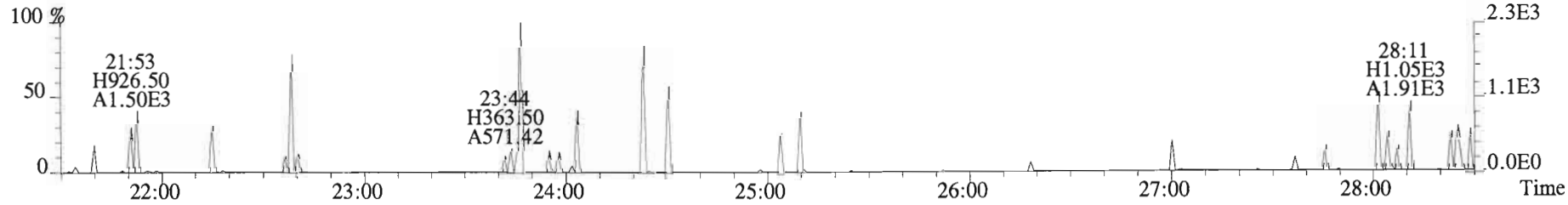
File:150203D1 #1-551 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01 AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



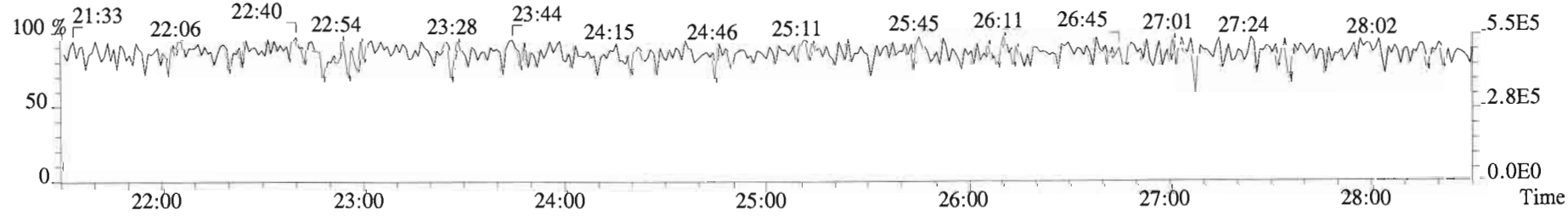
341.8568 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



409.7974 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

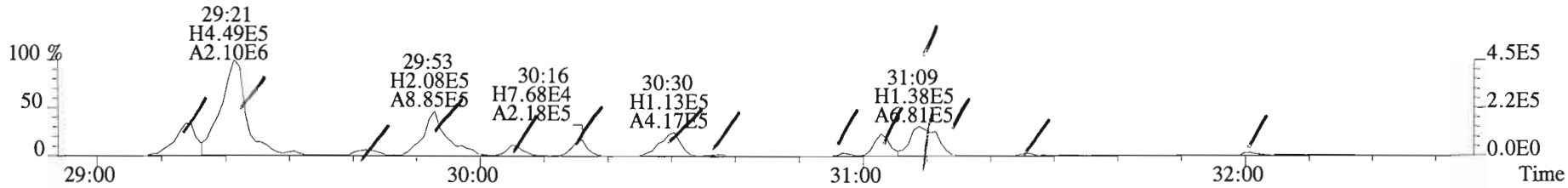


316.9824 S:3

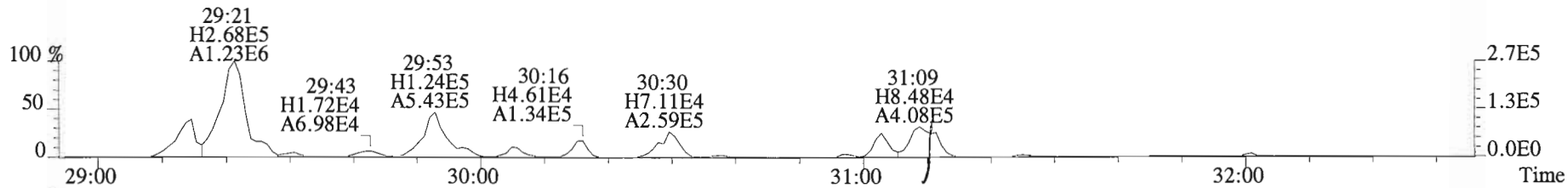


File:150203D1 #1-251 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01 AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5

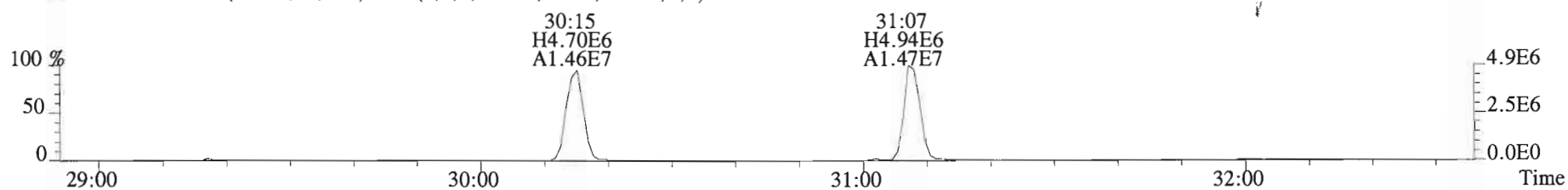
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



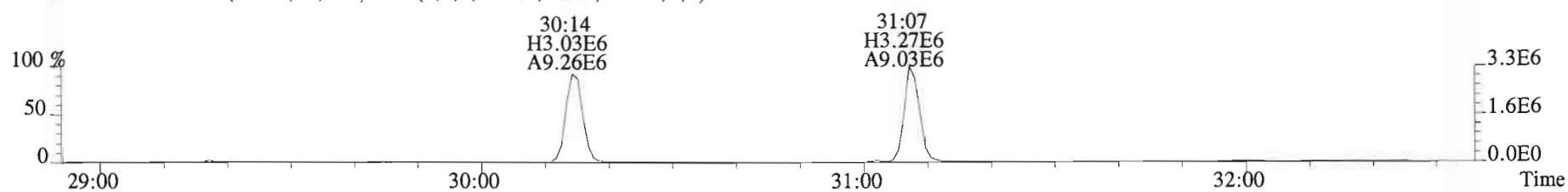
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



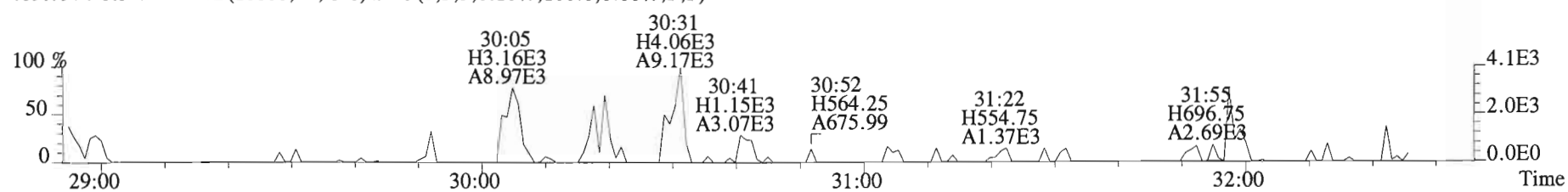
351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



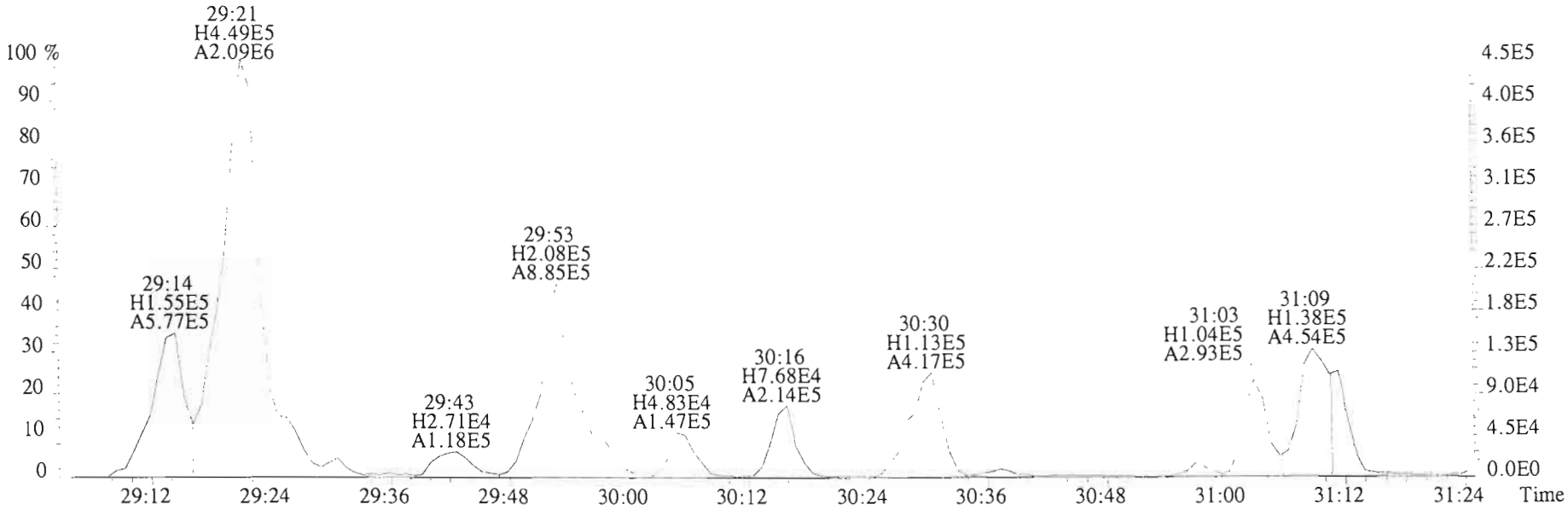
353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



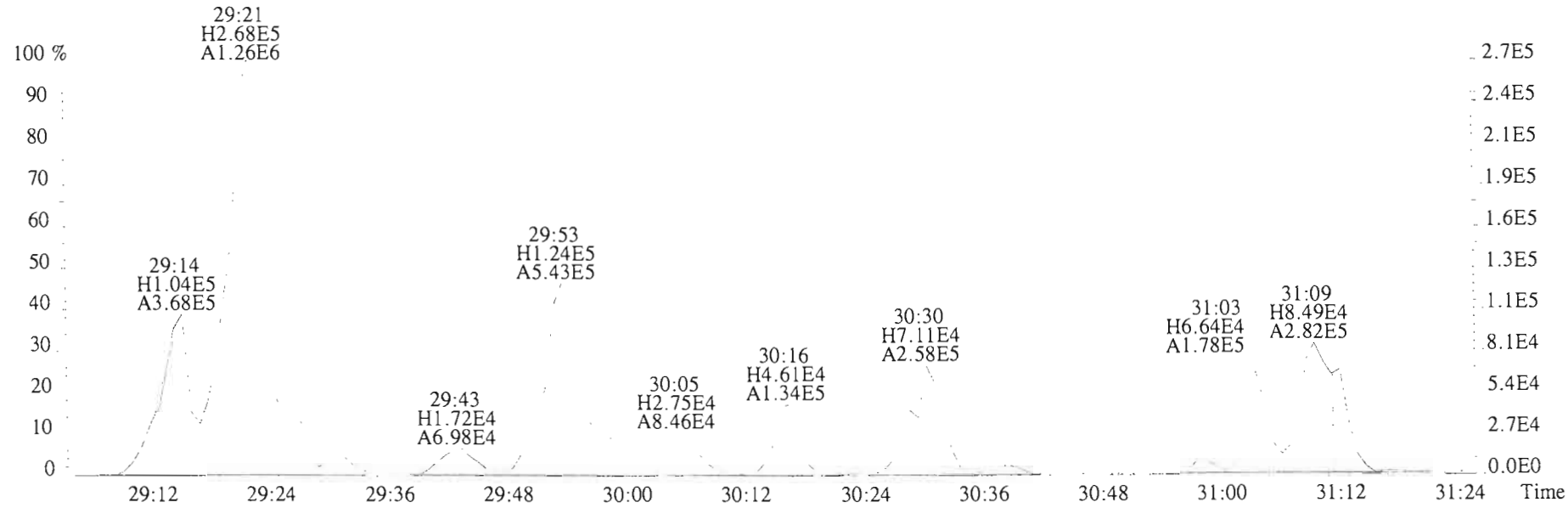
409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



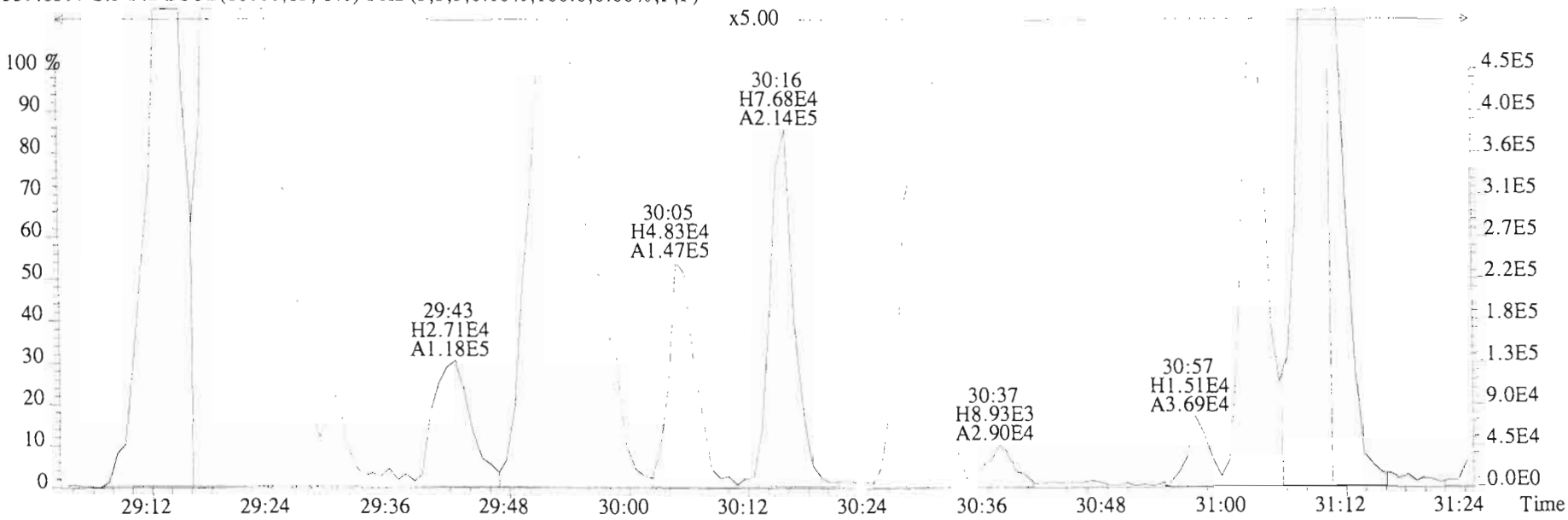
File:150203D1 #1-251 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



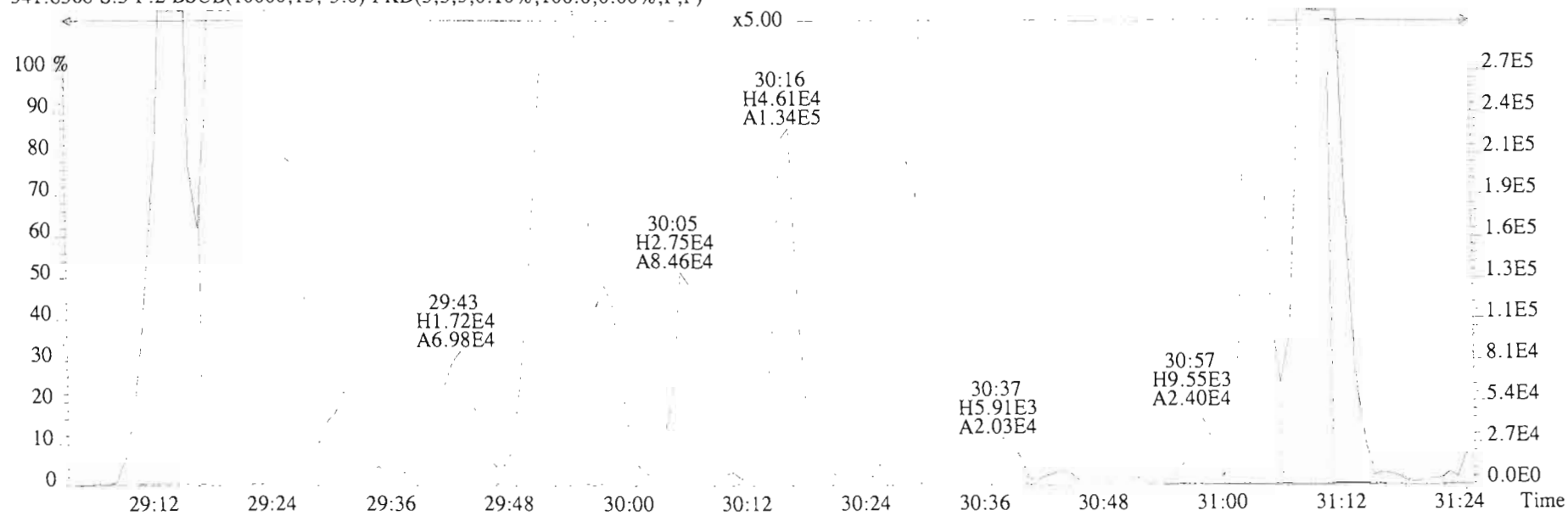
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



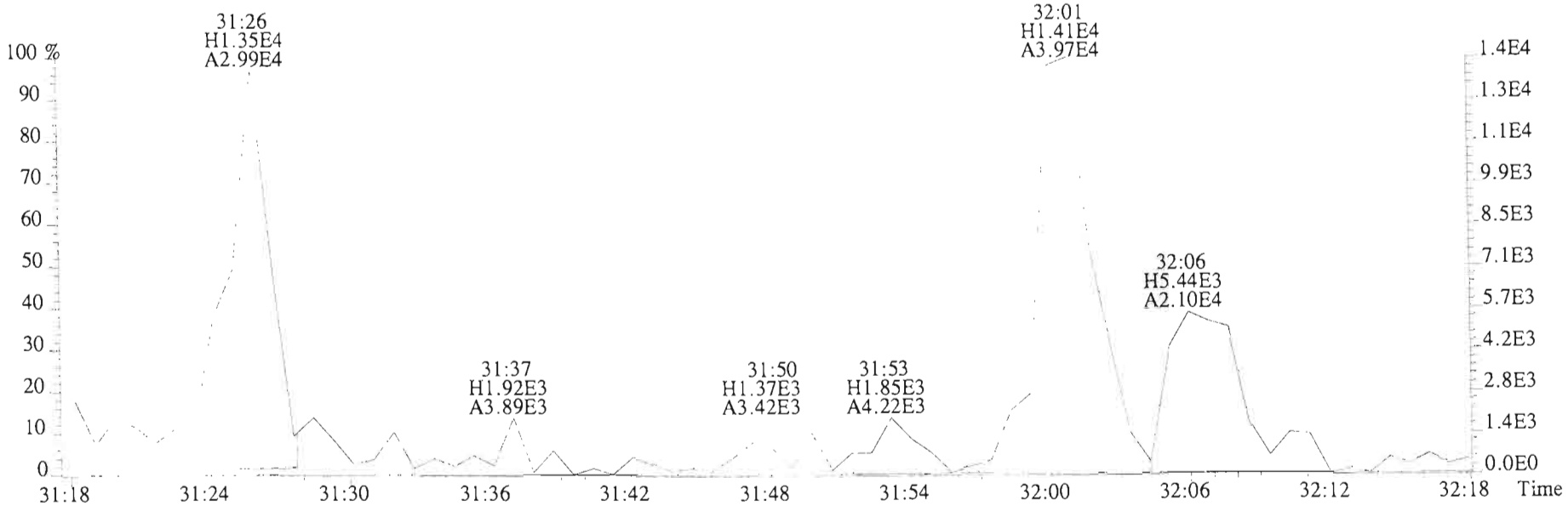
File:150203D1 #1-251 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



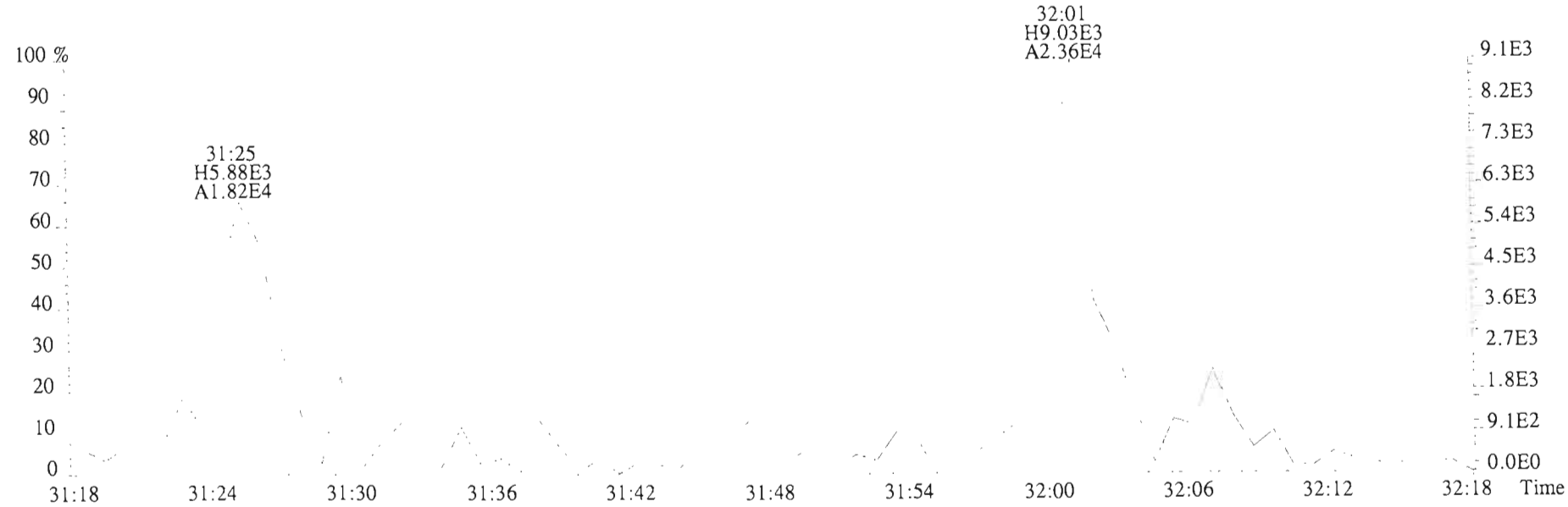
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



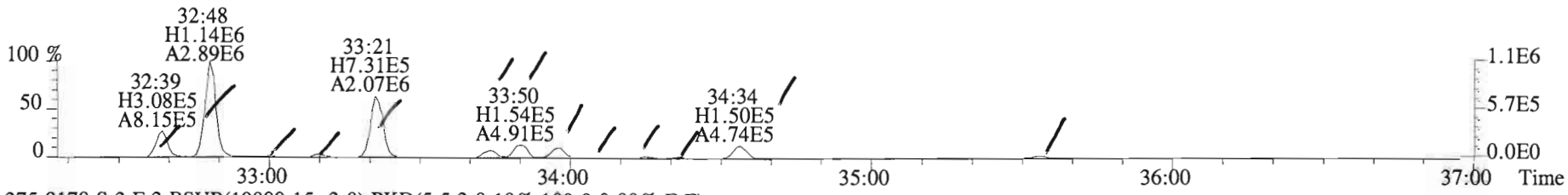
File:150203D1 #1-251 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



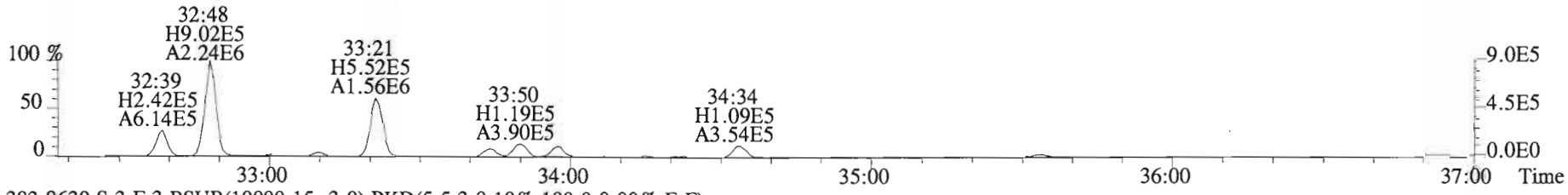
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



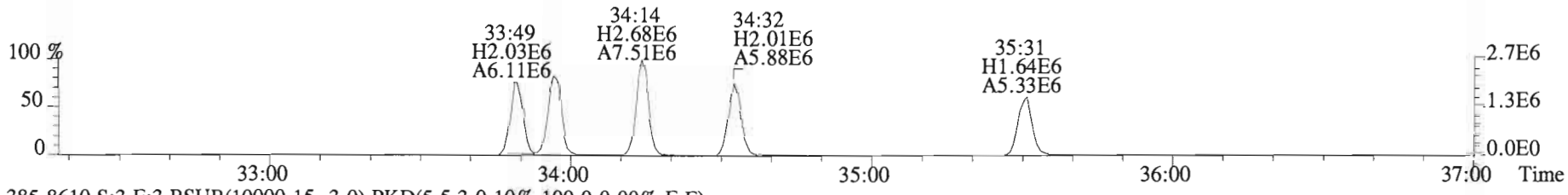
File:150203D1 #1-392 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01 AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



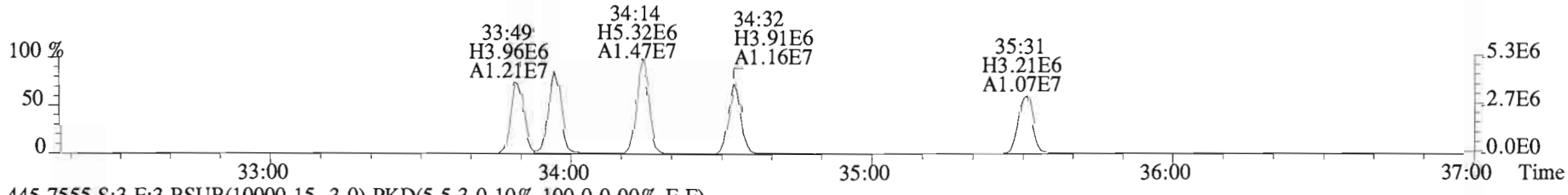
375.8178 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



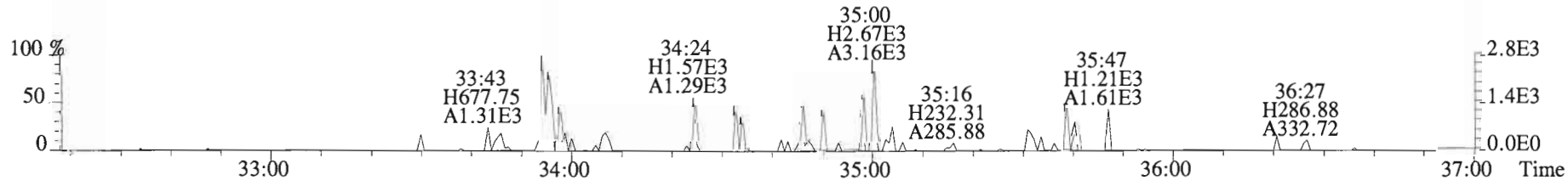
383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



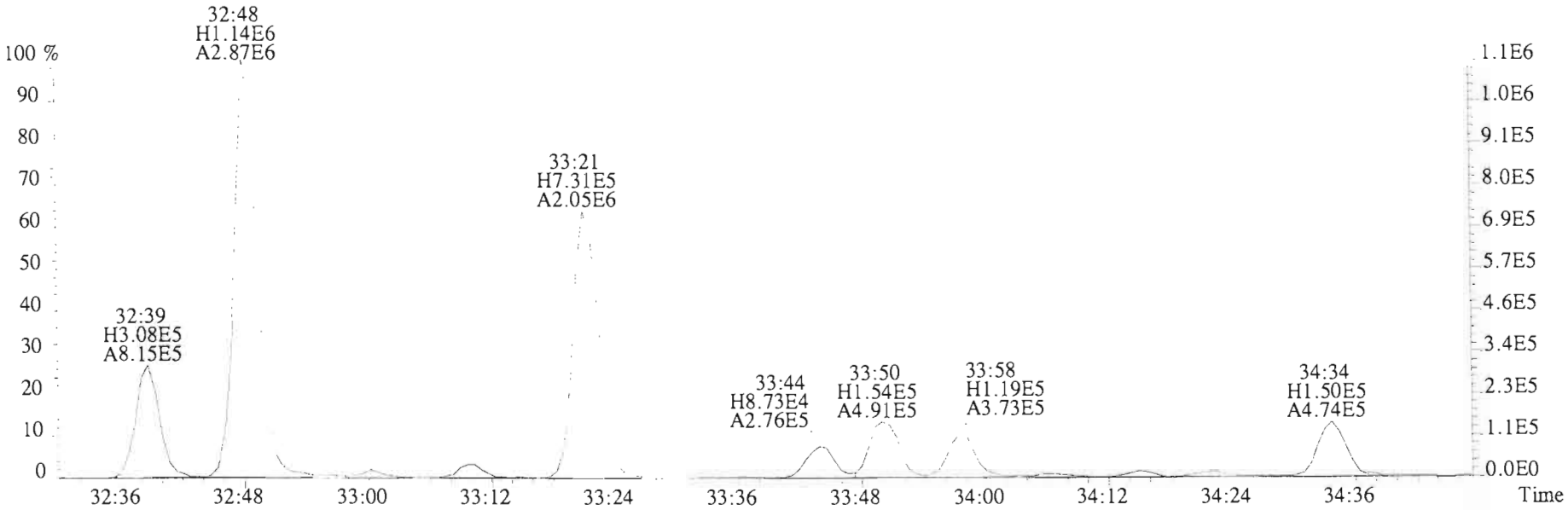
385.8610 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



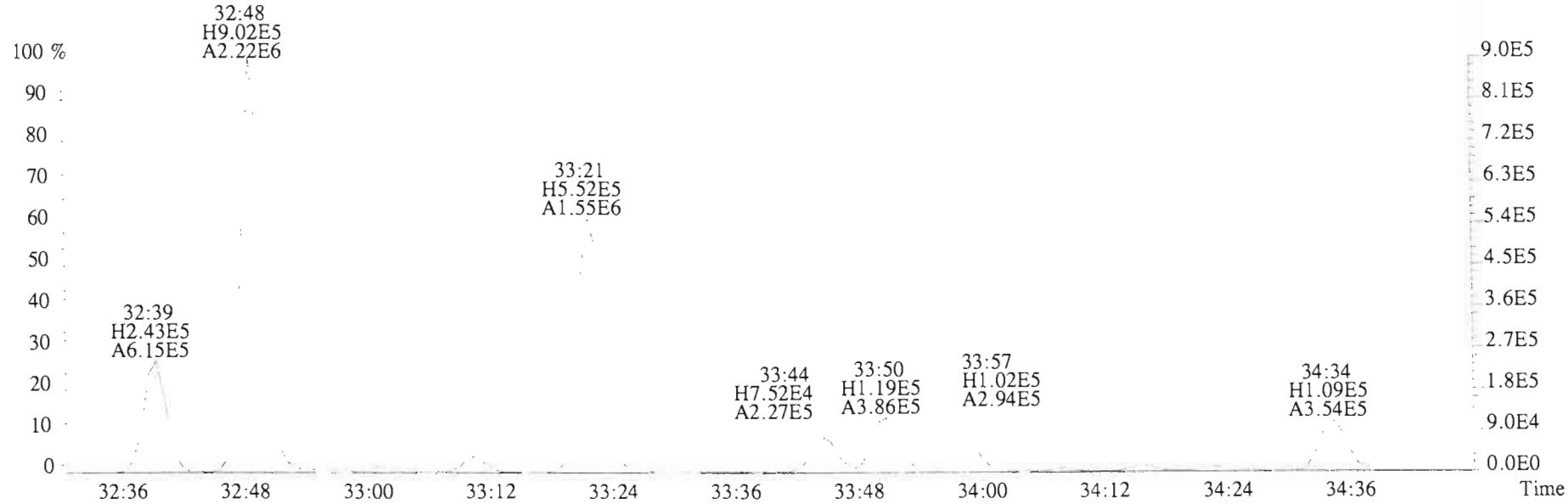
445.7555 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



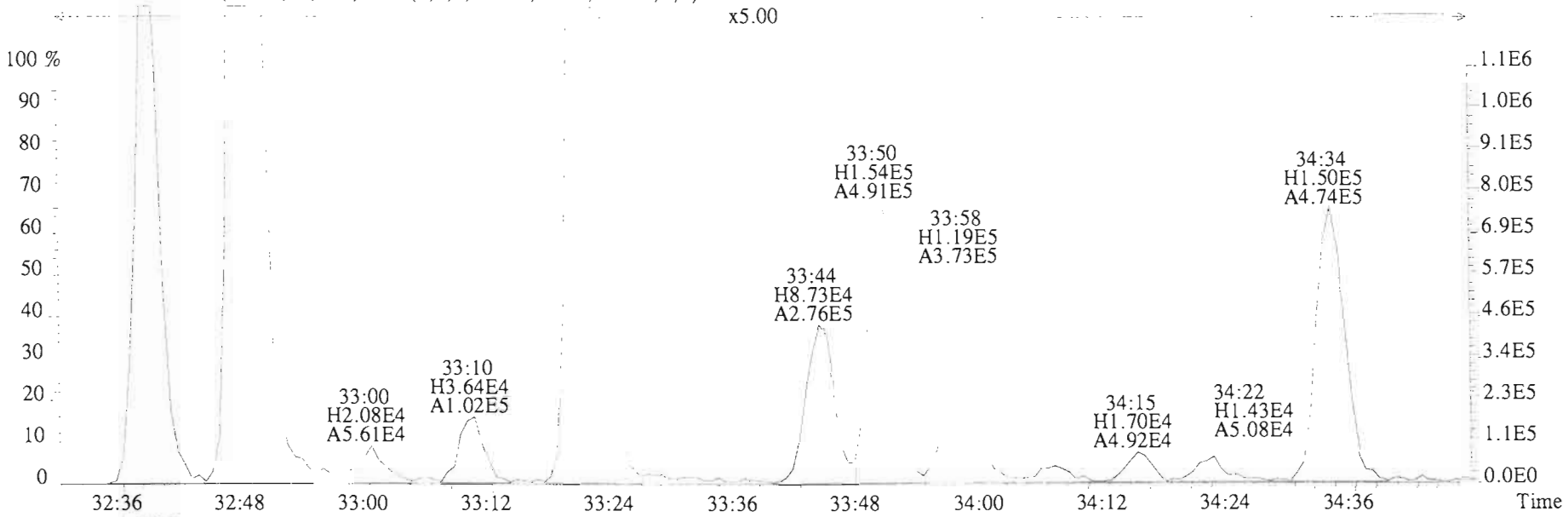
File:150203D1 #1-392 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



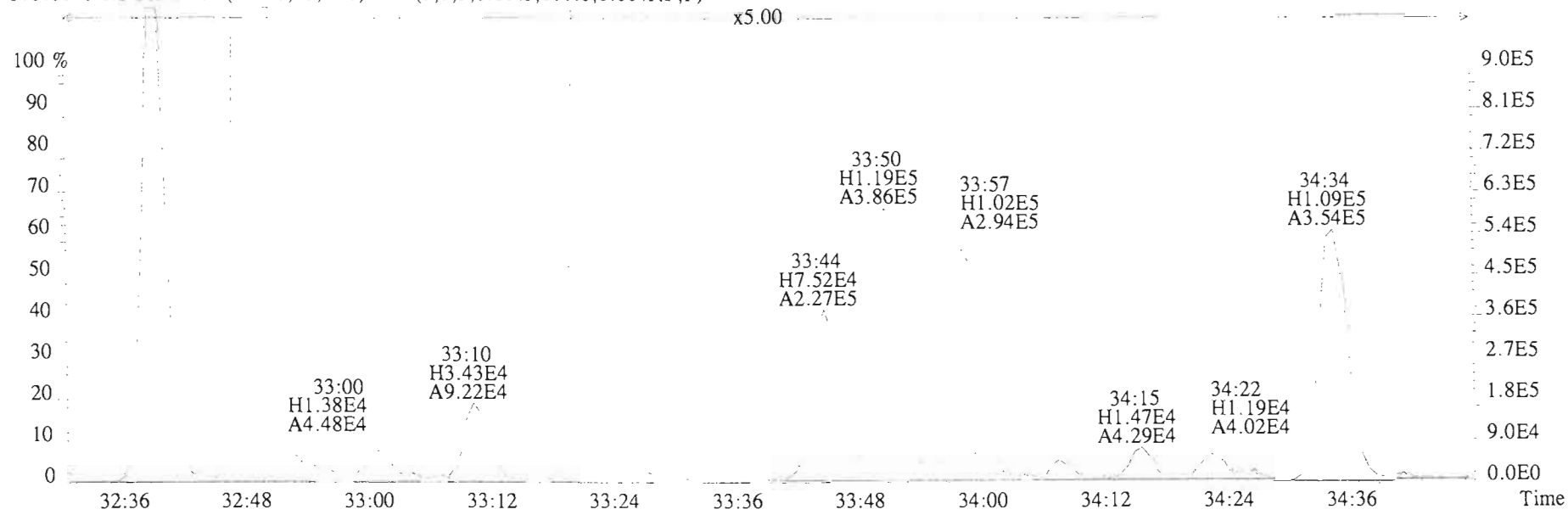
375.8178 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



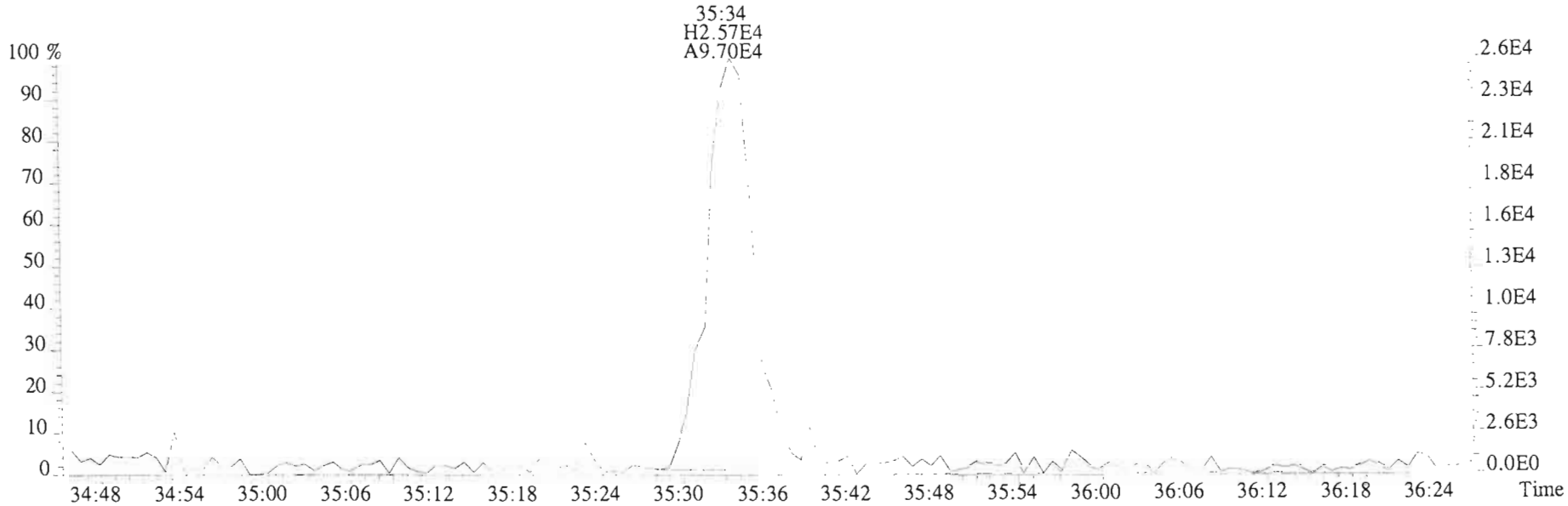
File:150203D1 #1-392 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



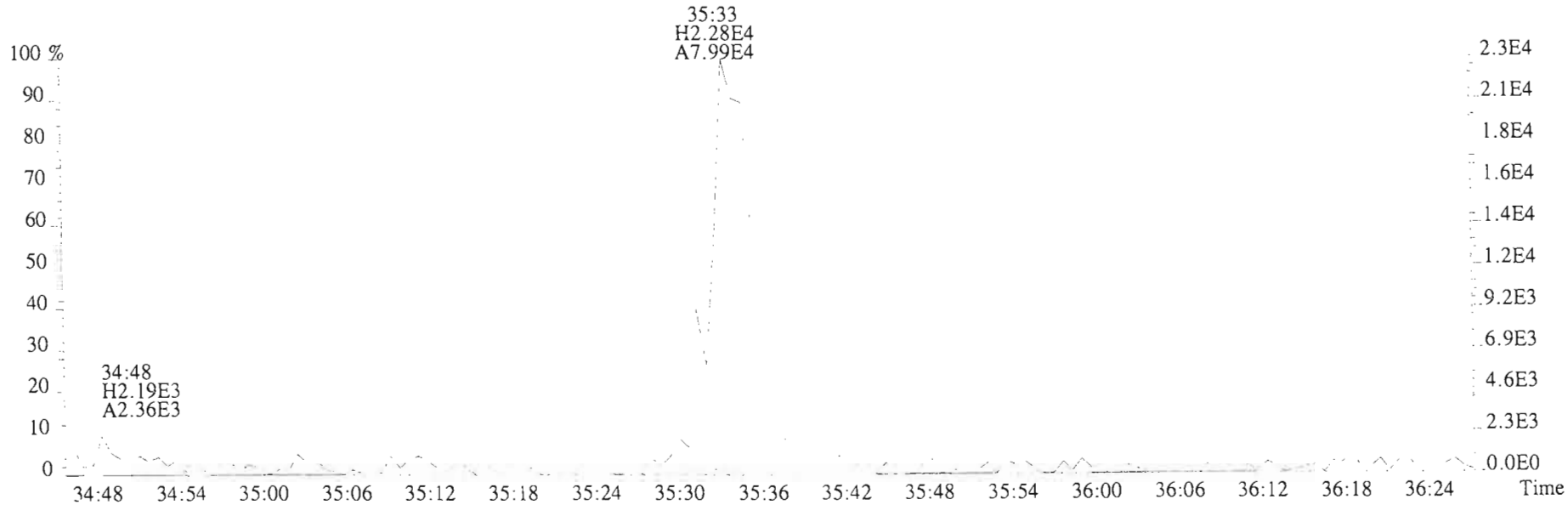
375.8178 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



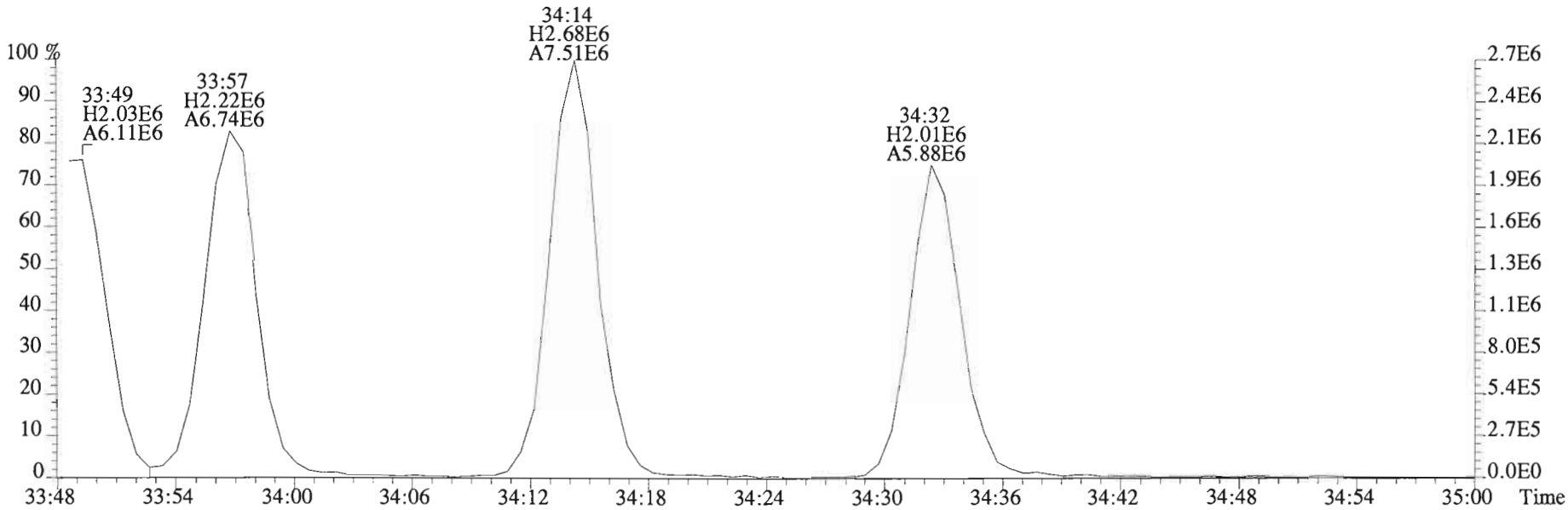
File:150203D1 #1-392 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



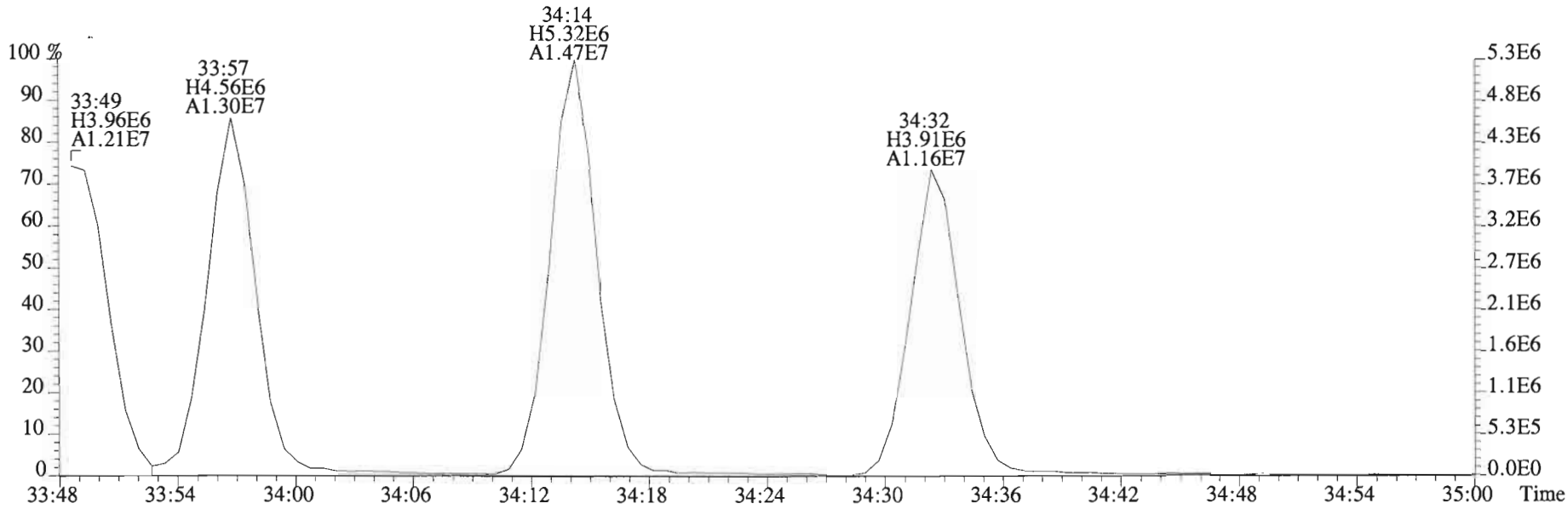
375.8178 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:150203D1 #1-392 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01 AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

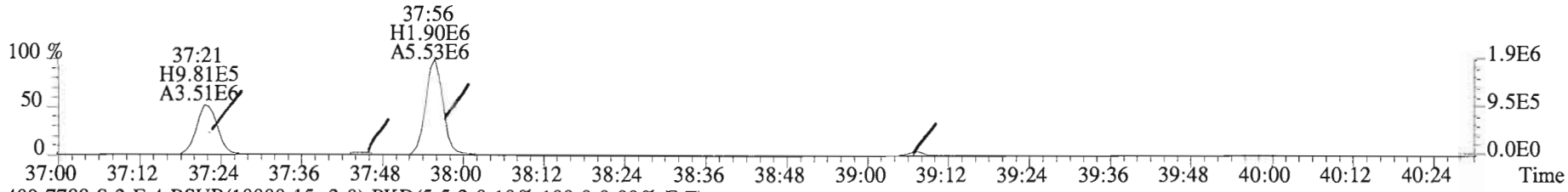


385.8610 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

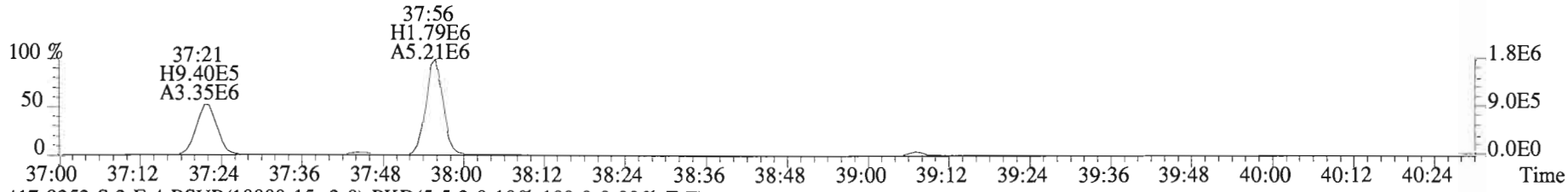


File:150203D1 #1-326 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01 AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5

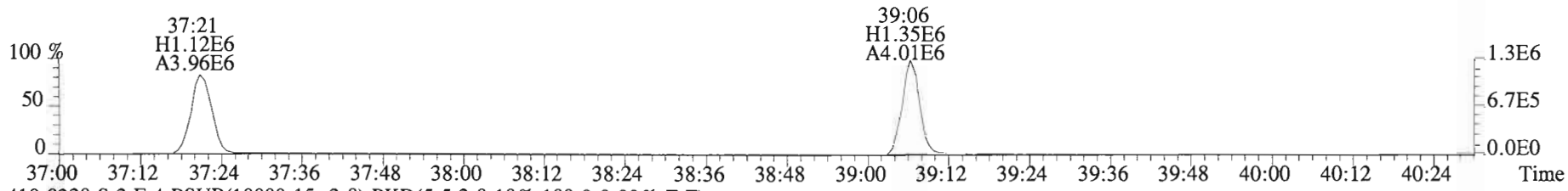
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



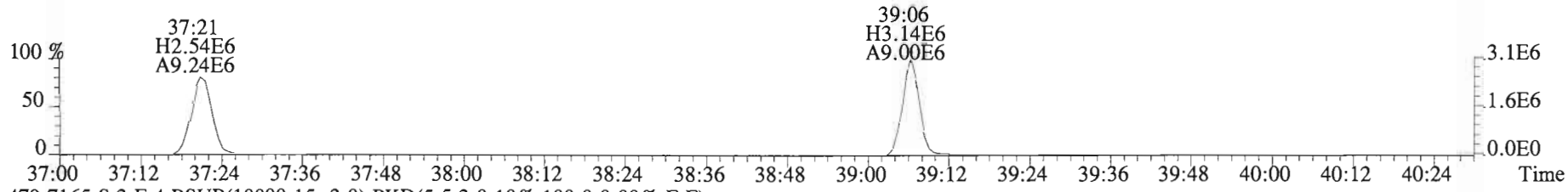
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



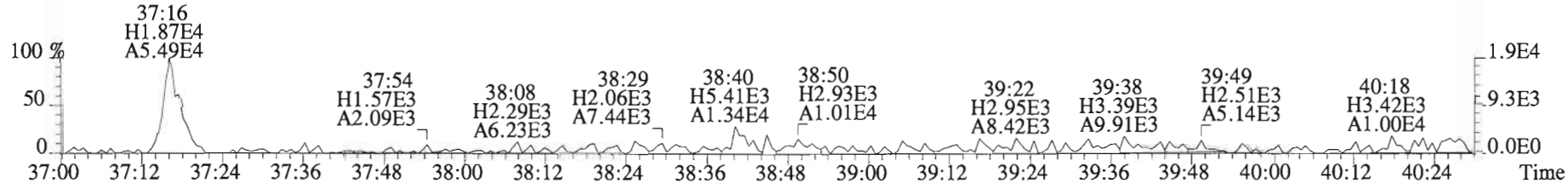
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



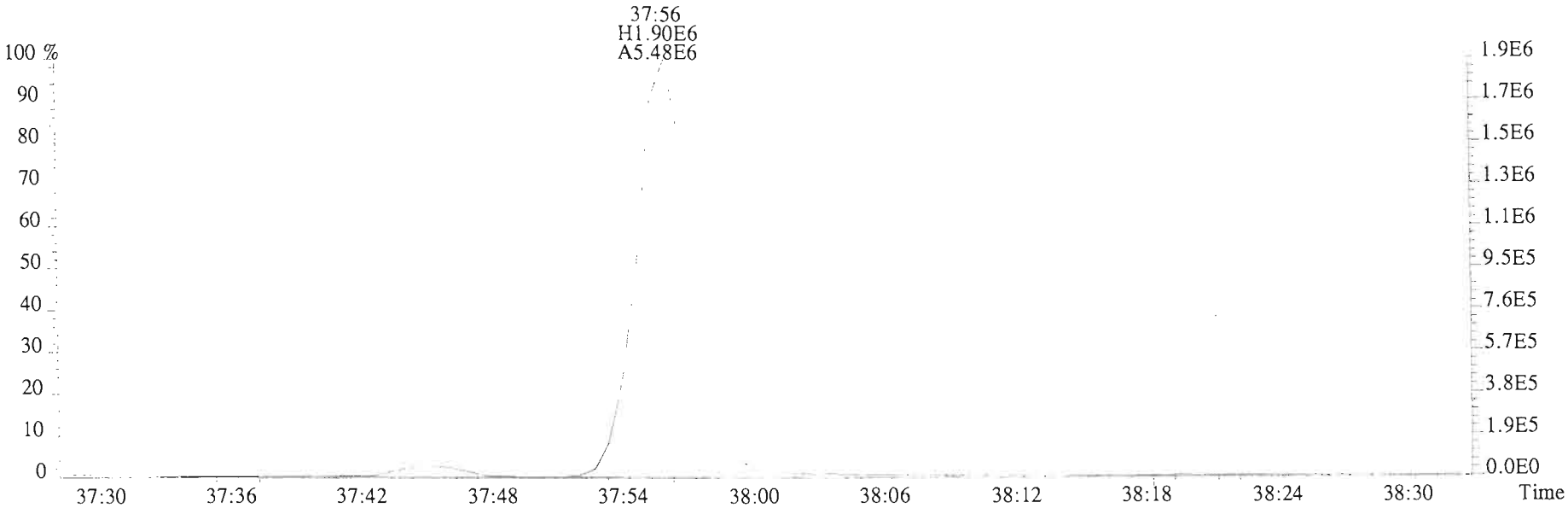
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



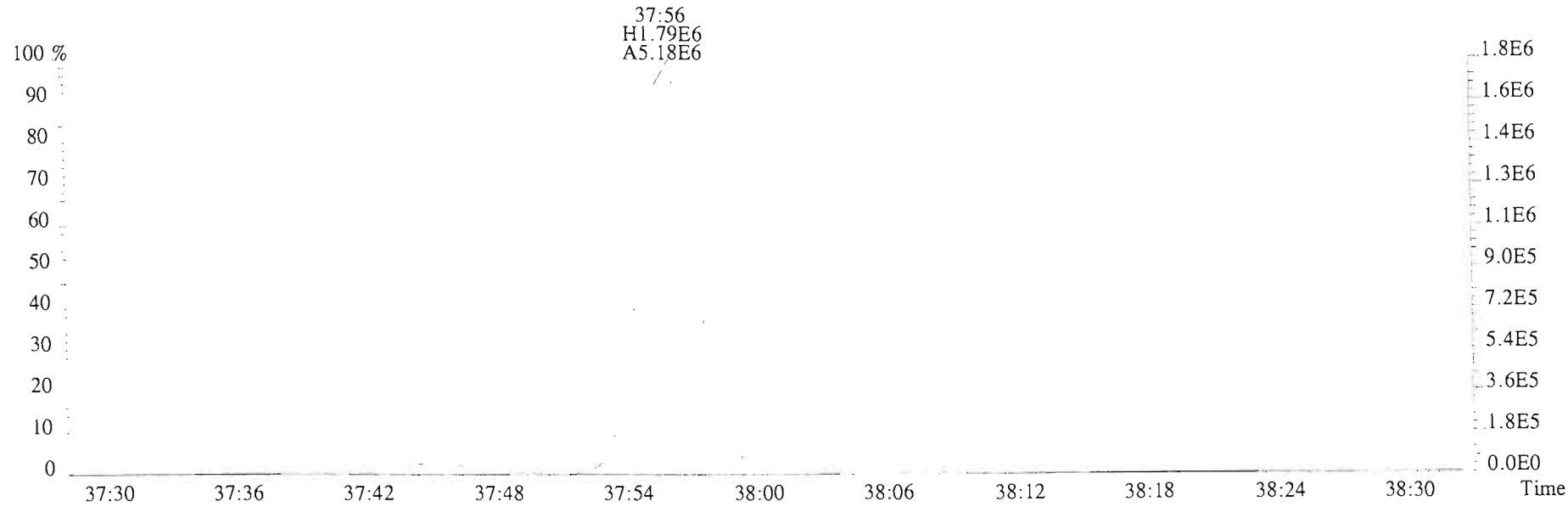
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



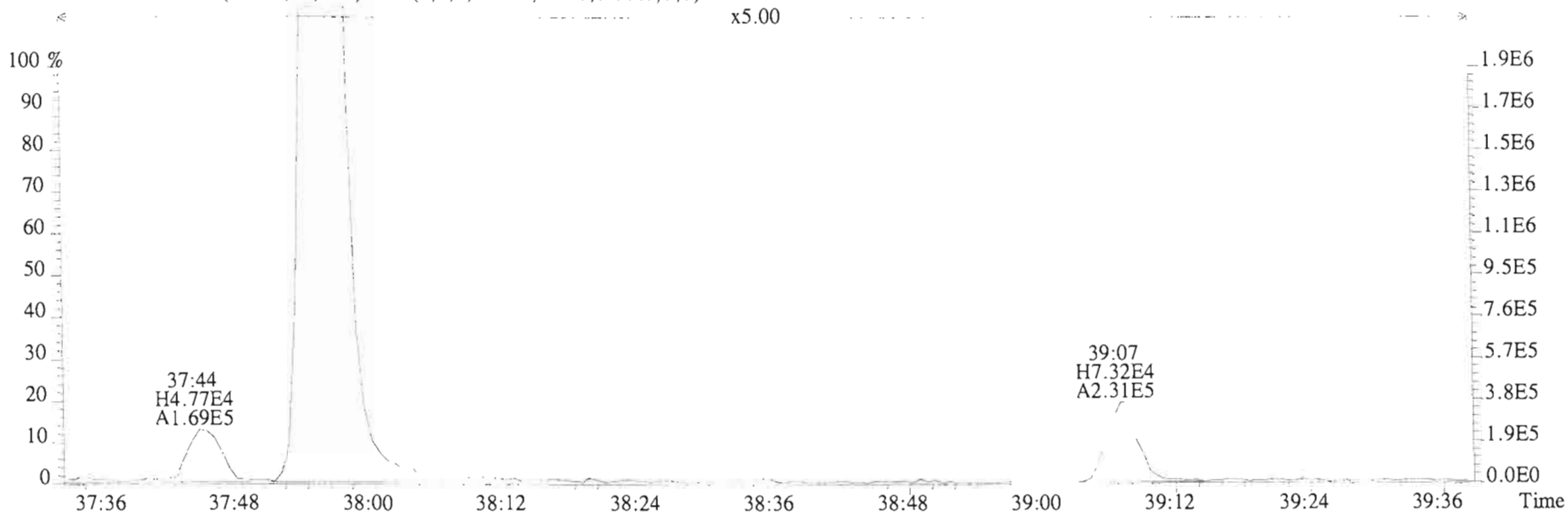
File:150203D1 #1-326 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



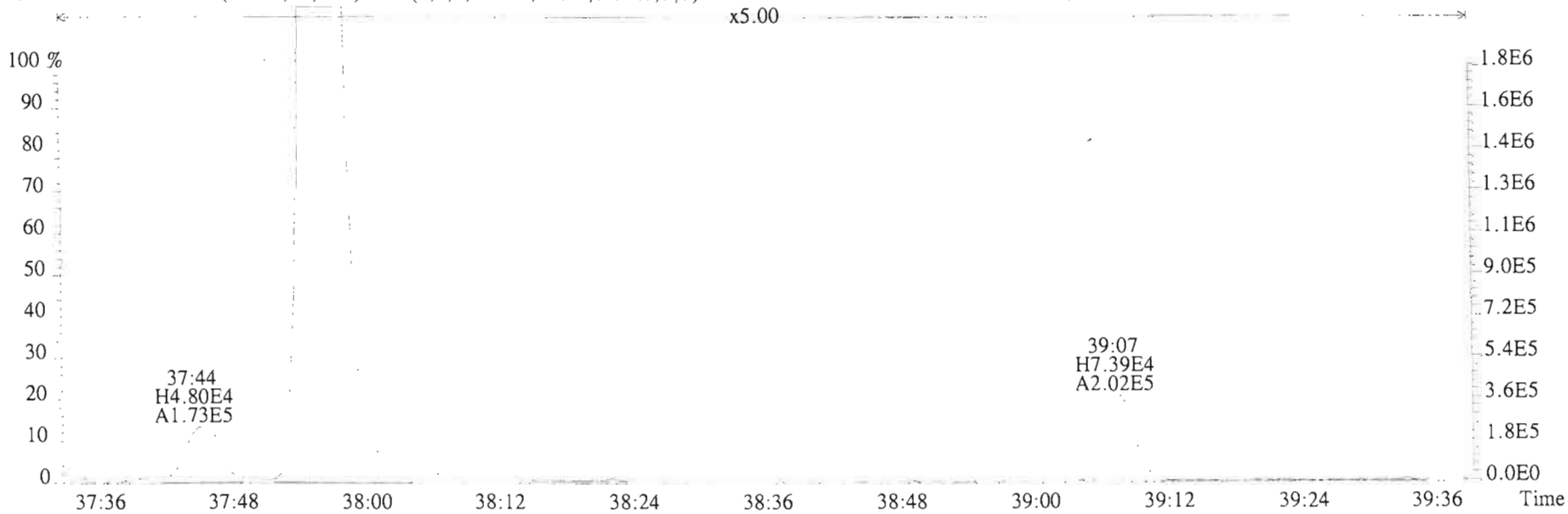
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



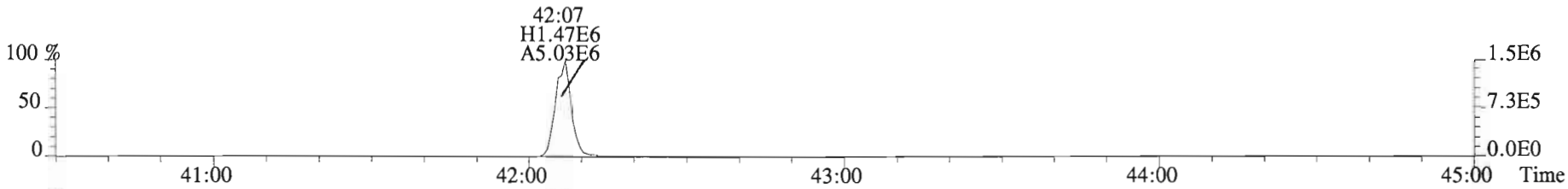
File:150203D1 #1-326 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01@20X AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



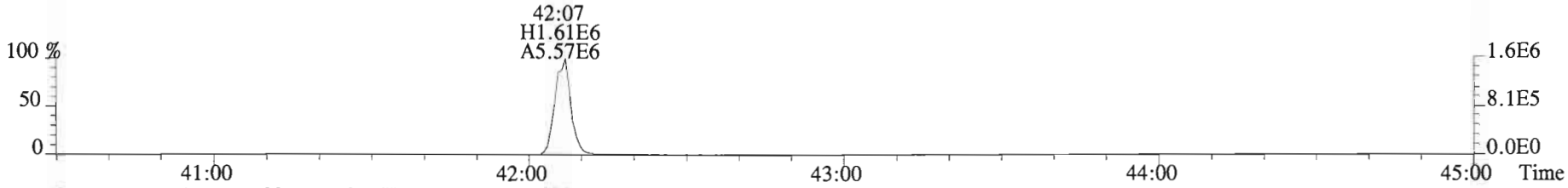
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



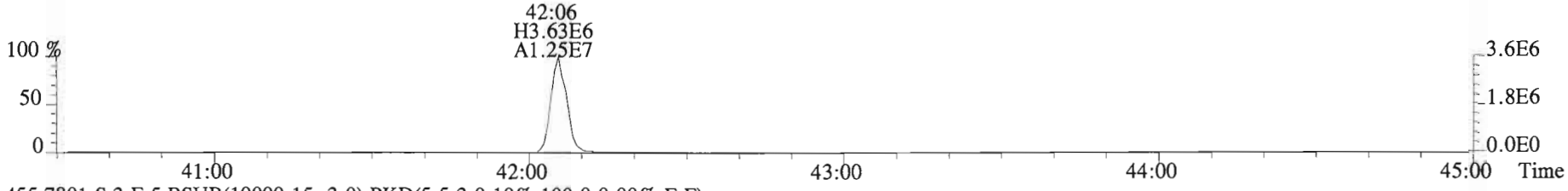
File:150203D1 #1-388 Acq: 3-FEB-2015 10:13:12 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-7 Text:1500108-01 AS-CB-02-20150120-S 25.91 Exp:OCDD_DB5
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



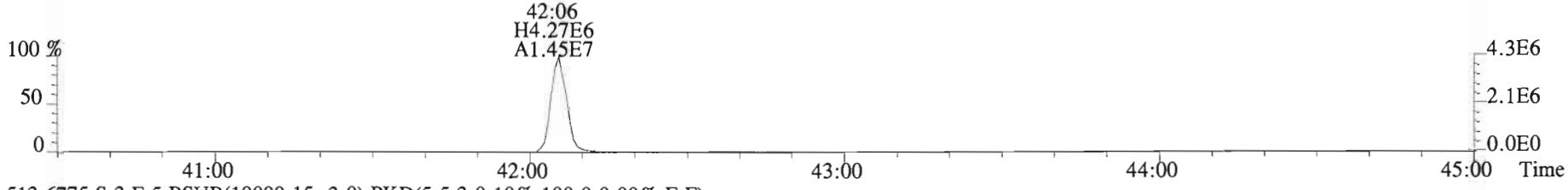
443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



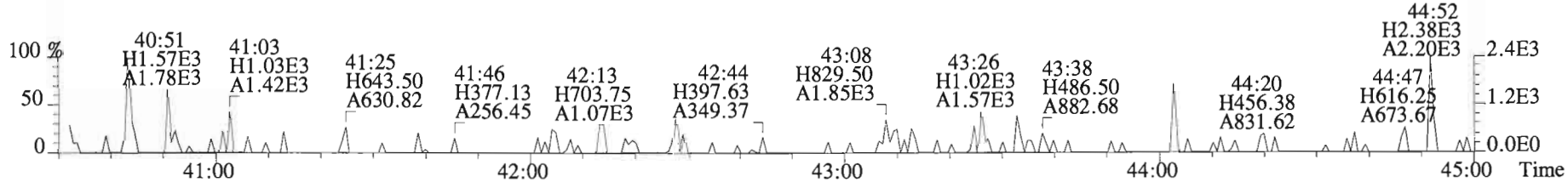
453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



	Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL
	2,3,7,8-TCDD	1.27e+05	0.63 n	1.17	26:57	1.1746			* 2.5	*
	1,2,3,7,8-PeCDD	6.23e+05	0.59 y	0.91	31:24	7.2983			* 2.5	*
	1,2,3,4,7,8-HxCDD	8.52e+05	1.26 y	1.08	34:43	11.844			* 2.5	*
	1,2,3,6,7,8-HxCDD	2.04e+06	1.28 y	1.06	34:50	27.452			* 2.5	*
	1,2,3,7,8,9-HxCDD	1.68e+06	1.22 y	0.93	35:08	21.911			* 2.5	*
	1,2,3,4,6,7,8-HpCDD	3.94e+07	1.03 y	1.10	38:33	521.28			* 2.5	*
	OCDD	2.33e+08	0.89 y	0.95	41:53	3825.1			* 2.5	*
	2,3,7,8-TCDF	1.14e+06	0.80 y	1.07	26:12	8.4152	7.10		* 2.5	*
	1,2,3,7,8-PeCDF	6.54e+05	1.65 y	1.07	30:15	4.8297			* 2.5	*
	2,3,4,7,8-PeCDF	1.01e+06	1.59 y	1.03	31:08	8.1496			* 2.5	*
	1,2,3,4,7,8-HxCDF	1.46e+06	1.28 y	1.38	33:50	11.444			* 2.5	*
	1,2,3,6,7,8-HxCDF	1.14e+06	1.34 y	1.26	33:57	9.4467			* 2.5	*
	2,3,4,6,7,8-HxCDF	1.55e+06	1.24 y	1.29	34:34	13.199			* 2.5	*
	1,2,3,7,8,9-HxCDF	3.00e+05	1.22 y	1.19	35:33	3.1572			* 2.5	*
	1,2,3,4,6,7,8-HpCDF	1.27e+07	1.08 y	1.61	37:22	116.20			* 2.5	*
	1,2,3,4,7,8,9-HpCDF	7.80e+05	1.10 y	1.53	39:07	7.8065			* 2.5	*
	OCDF	1.81e+07	0.90 y	1.10	42:07	242.34			* 2.5	*

	Name	Resp	RA	RRF	RT	Conc	Qual	Rec	Qual
IS	13C-2,3,7,8-TCDD	1.84e+07	0.81 y	1.06	26:57	170.39		85.6	
IS	13C-1,2,3,7,8-PeCDD	1.87e+07	0.61 y	1.18	31:24	155.83		78.3	
IS	13C-1,2,3,4,7,8-HxCDD	1.33e+07	1.22 y	0.72	34:42	162.49		81.6	
IS	13C-1,2,3,6,7,8-HxCDD	1.39e+07	1.25 y	0.74	34:49	166.08		83.4	
IS	13C-1,2,3,7,8,9-HxCDD	1.64e+07	1.22 y	0.85	35:07	168.74		84.8	
IS	13C-1,2,3,4,6,7,8-HpCDD	1.36e+07	1.07 y	0.65	38:33	183.51		92.2	
IS	13C-OCDD	2.56e+07	0.88 y	0.76	41:52	295.30		74.2	
IS	13C-2,3,7,8-TCDF	2.51e+07	0.77 y	0.92	26:11	172.12		86.5	
IS	13C-1,2,3,7,8-PeCDF	2.51e+07	1.56 y	0.92	30:15	171.42		86.1	
IS	13C-2,3,4,7,8-PeCDF	2.39e+07	1.60 y	0.93	31:08	161.82		81.3	
IS	13C-1,2,3,4,7,8-HxCDF	1.84e+07	0.51 y	0.98	33:49	165.22		83.0	
IS	13C-1,2,3,6,7,8-HxCDF	1.92e+07	0.50 y	1.08	33:57	156.02		78.4	
IS	13C-2,3,4,6,7,8-HxCDF	1.81e+07	0.50 y	1.03	34:32	155.45		78.1	
IS	13C-1,2,3,7,8,9-HxCDF	1.60e+07	0.50 y	0.86	35:31	163.49		82.1	
IS	13C-1,2,3,4,6,7,8-HpCDF	1.35e+07	0.44 y	0.72	37:21	164.39		82.6	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.30e+07	0.44 y	0.70	39:06	164.71		82.7	
IS	13C-OCDF	2.70e+07	0.88 y	0.85	42:06	280.43		70.4	
C/Up	37Cl-2,3,7,8-TCDD	8.36e+06		1.12	26:58	73.461		92.3	
RS/RT	13C-1,2,3,4-TCDD	2.03e+07	0.78 y	1.00	26:24	199.07			
RS	13C-1,2,3,4-TCDF	3.16e+07	0.77 y	1.00	25:00	199.07			
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.26e+07	0.51 y	1.00	34:14	199.07			

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	51.8	53.6		*	*
Total Penta-Dioxins	89.5	89.5		*	*
Total Hexa-Dioxins	287	287		*	*
Total Hepta-Dioxins	1160	1160		*	*
Total Tetra-Furans	147	147		*	*
Total Penta-Furans	172.34	173.53		*	*
Total Hexa-Furans	206	207		*	*
Total Hepta-Furans	295	295		*	*

Integrations by Analyst: DMS Date: 2/4/15

Reviewed by Analyst: Date: 2/5/15

Totals class: TCDD EMPC Entry #: 19

Run: 9 File: 150203D1 S: 4 I: 1 F: 1
Acquired: 3-FEB-15 11:01:23 Processed: 4-FEB-15 07:54:08

Total Concentration: 53.587 Unnamed Concentration: 52.413

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
23:38	8.042e+05	1.096e+06	0.73	y	1.900e+06	17.545	
23:59	5.295e+05	6.906e+05	0.77	y	1.220e+06	11.265	
24:23	7.915e+04	1.019e+05	0.78	y	1.810e+05	1.6713	
25:07	3.050e+04	4.566e+04	0.67	y	7.616e+04	0.70318	
25:19	2.013e+05	2.604e+05	0.77	y	4.617e+05	4.2624	
25:30	1.819e+05	2.407e+05	0.76	y	4.226e+05	3.9019	
25:41	6.886e+04	9.052e+04	0.76	y	1.594e+05	1.4714	
25:54	2.034e+04	2.954e+04	0.69	y	4.988e+04	0.46055	
26:03	8.231e+04	1.005e+05	0.82	y	1.828e+05	1.6879	
26:25	1.459e+05	1.909e+05	0.76	y	3.369e+05	3.1101	
26:43	1.855e+05	2.425e+05	0.76	y	4.280e+05	3.9520	
26:51	2.410e+04	3.262e+04	0.74	y	5.673e+04	0.52373	
26:57	5.534e+04	8.742e+04	0.63	n	1.272e+05	1.1746	2,3,7,8-TCDD
27:15	5.714e+04	7.813e+04	0.73	y	1.353e+05	1.2489	
27:23	1.406e+04	1.513e+04	0.93	n	2.679e+04	0.24733	
27:48	1.706e+04	2.769e+04	0.62	n	3.921e+04	0.36200	

Totals class: PeCDD EMPC Entry #: 21

Run: 9 File: 150203D1 S: 4 I: 1 F: 2
Acquired: 3-FEB-15 11:01:23 Processed: 4-FEB-15 07:54:08

Total Concentration: 89.500 Unnamed Concentration: 82.202

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
29:23	7.569e+05	1.228e+06	0.62	y	1.985e+06	23.257	
29:49	1.215e+05	2.216e+05	0.55	y	3.431e+05	4.0198	
30:16	5.277e+05	8.372e+05	0.63	y	1.365e+06	15.991	
30:25	2.413e+05	4.028e+05	0.60	y	6.441e+05	7.5459	
30:30	3.939e+05	6.450e+05	0.61	y	1.039e+06	12.172	
30:43	2.438e+05	4.115e+05	0.59	y	6.553e+05	7.6771	
31:01	2.193e+05	3.606e+05	0.61	y	5.800e+05	6.7944	
31:24	2.316e+05	3.914e+05	0.59	y	6.230e+05	7.2983	1,2,3,7,8-PeCDD
31:29	6.814e+04	1.026e+05	0.66	y	1.707e+05	2.0001	
31:46	8.726e+04	1.471e+05	0.59	y	2.343e+05	2.7453	

Totals class: HxCDD EMPC Entry #: 23

Run: 9 File: 150203D1 S: 4 I: 1 F: 3
Acquired: 3-FEB-15 11:01:23 Processed: 4-FEB-15 07:54:08

Total Concentration: 287.18 Unnamed Concentration: 225.971

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
33:10	2.670e+06	2.094e+06	1.27	y	4.764e+06	64.120	
33:45	1.969e+06	1.573e+06	1.25	y	3.542e+06	47.675	
34:01	4.139e+06	3.247e+06	1.27	y	7.386e+06	99.413	
34:08	2.839e+05	2.486e+05	1.14	y	5.326e+05	7.1681	
34:43	4.749e+05	3.774e+05	1.26	y	8.523e+05	11.844	1,2,3,4,7,8-HxCDD
34:50	1.143e+06	8.952e+05	1.28	y	2.038e+06	27.452	1,2,3,6,7,8-HxCDD
35:02	3.067e+05	2.575e+05	1.19	y	5.642e+05	7.5939	
35:08	9.206e+05	7.551e+05	1.22	y	1.676e+06	21.911	1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC Entry #: 25

Run: 9 File: 150203D1 S: 4 I: 1 F: 4
Acquired: 3-FEB-15 11:01:23 Processed: 4-FEB-15 07:54:08

Total Concentration: 1160.0 Unnamed Concentration: 638.738

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
37:44	2.437e+07	2.390e+07	1.02	y	4.827e+07	638.74	
38:33	1.998e+07	1.941e+07	1.03	y	3.939e+07	521.28	1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC Entry #: 27

Run: 9 File: 150203D1 S: 4 I: 1 F: 1
Acquired: 3-FEB-15 11:01:23 Processed: 4-FEB-15 07:54:08

Total Concentration: 147.14 Unnamed Concentration: 138.721

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
21:31	1.720e+05	2.276e+05	0.76	y	3.996e+05	2.9612	
22:06	2.583e+05	3.286e+05	0.79	y	5.869e+05	4.3492	
22:44	7.830e+05	1.004e+06	0.78	y	1.787e+06	13.243	
23:14	9.096e+05	1.134e+06	0.80	y	2.044e+06	15.145	
23:37	6.730e+05	9.420e+05	0.71	y	1.615e+06	11.967	
24:01	5.424e+05	6.680e+05	0.81	y	1.210e+06	8.9691	
24:09	3.091e+05	3.956e+05	0.78	y	7.047e+05	5.2217	
24:19	3.742e+05	4.898e+05	0.76	y	8.640e+05	6.4026	
24:38	1.582e+05	2.234e+05	0.71	y	3.816e+05	2.8277	
24:46	3.195e+05	3.872e+05	0.83	y	7.067e+05	5.2371	
24:54	6.196e+05	7.239e+05	0.86	y	1.344e+06	9.9561	
25:01	6.663e+05	9.105e+05	0.73	y	1.577e+06	11.685	
25:25	4.817e+05	6.030e+05	0.80	y	1.085e+06	8.0377	
25:40	2.830e+05	3.707e+05	0.76	y	6.537e+05	4.8437	
25:49	2.342e+05	3.150e+05	0.74	y	5.492e+05	4.0693	
26:00	2.252e+05	3.093e+05	0.73	y	5.345e+05	3.9607	
26:06	1.793e+05	2.260e+05	0.79	y	4.054e+05	3.0039	
26:12	5.048e+05	6.308e+05	0.80	y	1.136e+06	8.4152	2,3,7,8-TCDF
26:31	8.301e+05	1.052e+06	0.79	y	1.882e+06	13.948	
26:44	5.485e+04	7.391e+04	0.74	y	1.288e+05	0.95412	
26:59	2.715e+04	3.417e+04	0.79	y	6.132e+04	0.45438	
27:30	9.008e+03	1.182e+04	0.76	y	2.083e+04	0.15435	
27:39	1.522e+04	1.660e+04	0.92	n	2.937e+04	0.21766	
27:57	6.573e+04	8.448e+04	0.78	y	1.502e+05	1.1131	

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 9 File: 150203D1 S: 4 I: 1 F: 1
Acquired: 3-FEB-15 11:01:23 Processed: 4-FEB-15 07:54:08

Total Concentration: 64.675 Unnamed Concentration: 64.675

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
27:55	5.051e+06	3.333e+06	1.52 y	8.384e+06	64.675	

Totals class: Total Penta-Furans Entry #: 30

Run: 9 File: 150203D1 S: 4 I: 1 F: 2
Acquired: 3-FEB-15 11:01:23 Processed: 4-FEB-15 07:54:08

Total Concentration: 107.67 Unnamed Concentration: 94.687

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
29:13	9.172e+05	5.724e+05	1.60	y	1.490e+06	11.491	
29:21	3.167e+06	1.946e+06	1.63	y	5.113e+06	39.440	
29:42	1.656e+05	9.938e+04	1.67	y	2.650e+05	2.0443	
29:53	1.387e+06	8.809e+05	1.57	y	2.268e+06	17.494	
30:05	2.157e+05	1.532e+05	1.41	y	3.690e+05	2.8461	
30:15	4.066e+05	2.472e+05	1.65	y	6.538e+05	4.8297	1,2,3,7,8-PeCDF
30:29	7.183e+05	4.317e+05	1.66	y	1.150e+06	8.8706	
30:37	5.052e+04	2.834e+04	1.78	y	7.886e+04	0.60835	
31:03	5.078e+05	3.104e+05	1.64	y	8.182e+05	6.3114	
31:08	6.206e+05	3.905e+05	1.59	y	1.011e+06	8.1496	2,3,4,7,8-PeCDF
31:11	4.038e+05	2.361e+05	1.71	y	6.399e+05	4.9360	
32:00	5.020e+04	3.345e+04	1.50	y	8.364e+04	0.64523	

Totals class: HxCDF EMPC Entry #: 33

Run: 9 File: 150203D1 S: 4 I: 1 F: 3
Acquired: 3-FEB-15 11:01:23 Processed: 4-FEB-15 07:54:08

Total Concentration: 206.65 Unnamed Concentration: 169.405

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
32:38	1.531e+06	1.176e+06	1.30	y	2.707e+06	23.471	
32:48	5.369e+06	4.128e+06	1.30	y	9.496e+06	82.331	
33:00	9.205e+04	7.463e+04	1.23	y	1.667e+05	1.4451	
33:10	1.922e+05	1.383e+05	1.39	y	3.305e+05	2.8654	
33:21	3.145e+06	2.477e+06	1.27	y	5.621e+06	48.735	
33:44	4.650e+05	3.752e+05	1.24	y	8.401e+05	7.2836	
33:50	8.214e+05	6.429e+05	1.28	y	1.464e+06	11.444	1,2,3,4,7,8-HxCDF
33:57	6.546e+05	4.901e+05	1.34	y	1.145e+06	9.4467	1,2,3,6,7,8-HxCDF
34:07	4.941e+04	4.900e+04	1.01	n	8.925e+04	0.77377	
34:15	8.138e+04	6.778e+04	1.20	y	1.492e+05	1.2932	
34:22	7.252e+04	6.664e+04	1.09	y	1.392e+05	1.2065	
34:34	8.581e+05	6.901e+05	1.24	y	1.548e+06	13.199	2,3,4,6,7,8-HxCDF
35:33	1.649e+05	1.356e+05	1.22	y	3.005e+05	3.1572	1,2,3,7,8,9-HxCDF

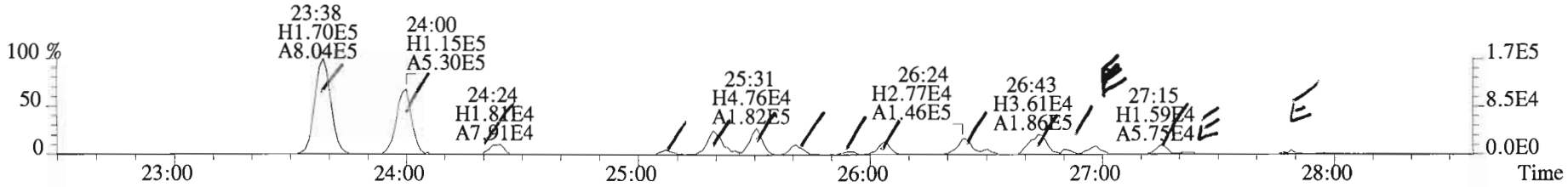
Totals class: HpCDF EMPC Entry #: 35

Run: 9 File: 150203D1 S: 4 I: 1 F: 4
Acquired: 3-FEB-15 11:01:23 Processed: 4-FEB-15 07:54:08

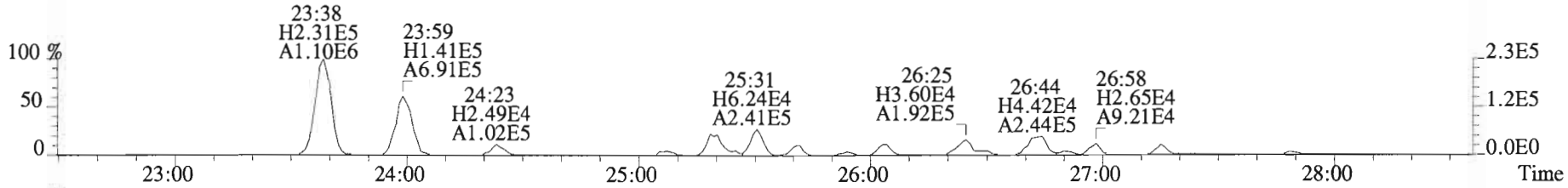
Total Concentration: 295.41 Unnamed Concentration: 171.404

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
37:22	6.567e+06	6.108e+06	1.08	y	1.268e+07	116.20	1,2,3,4,6,7,8-HpCDF
37:44	3.401e+05	2.993e+05	1.14	y	6.394e+05	6.1196	
37:55	8.976e+06	8.294e+06	1.08	y	1.727e+07	165.28	
39:07	4.093e+05	3.709e+05	1.10	y	7.802e+05	7.8065	1,2,3,4,7,8,9-HpCDF

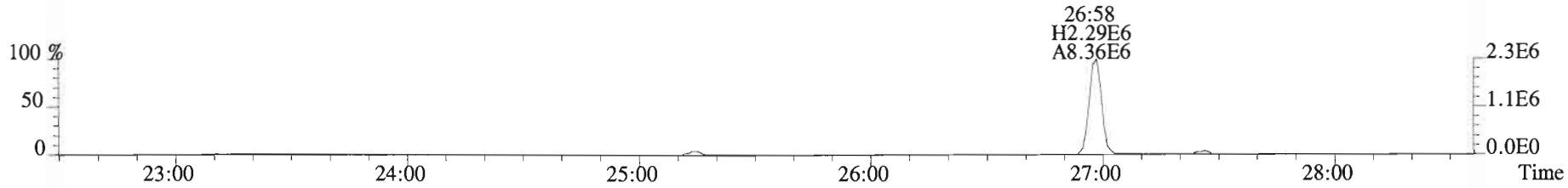
File:150203D1 #1-551 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02 AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



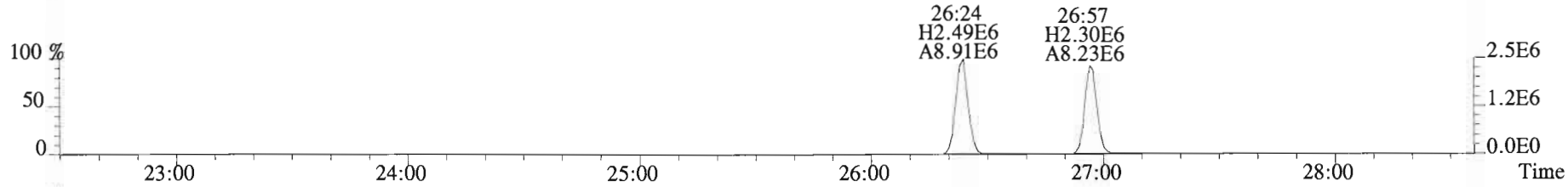
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



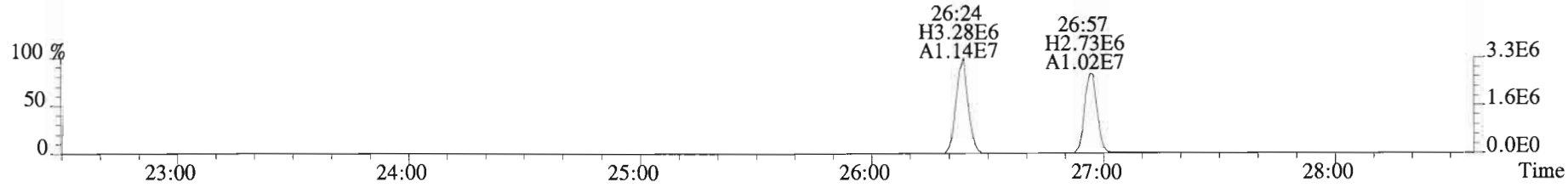
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



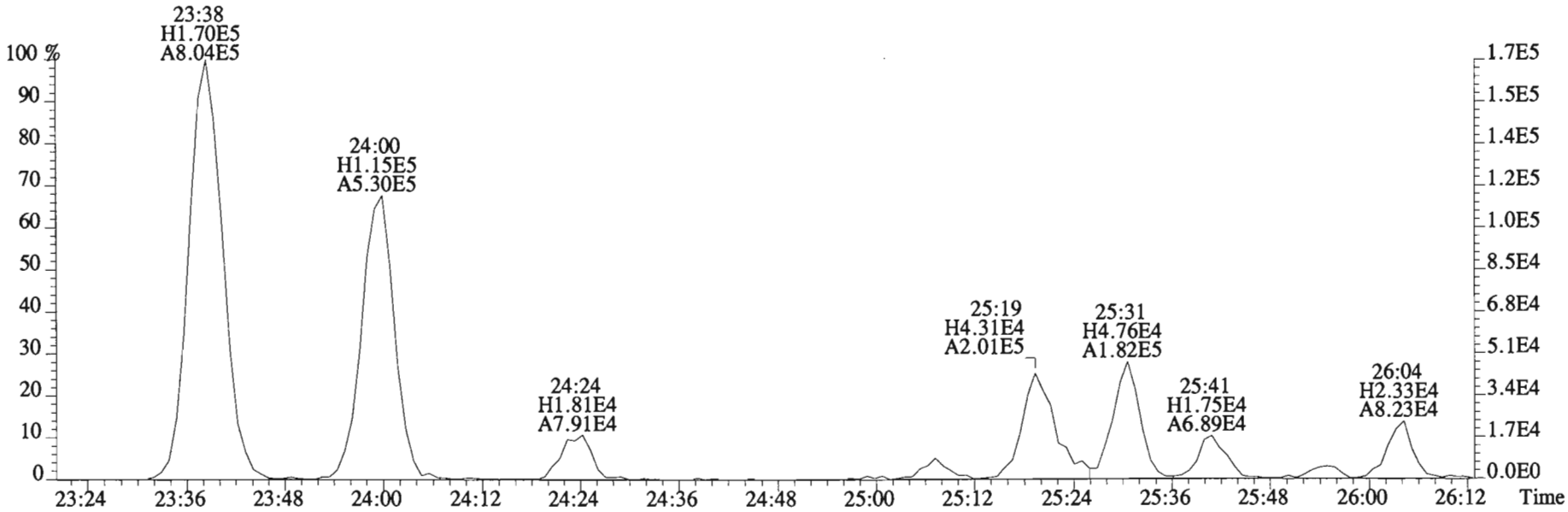
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



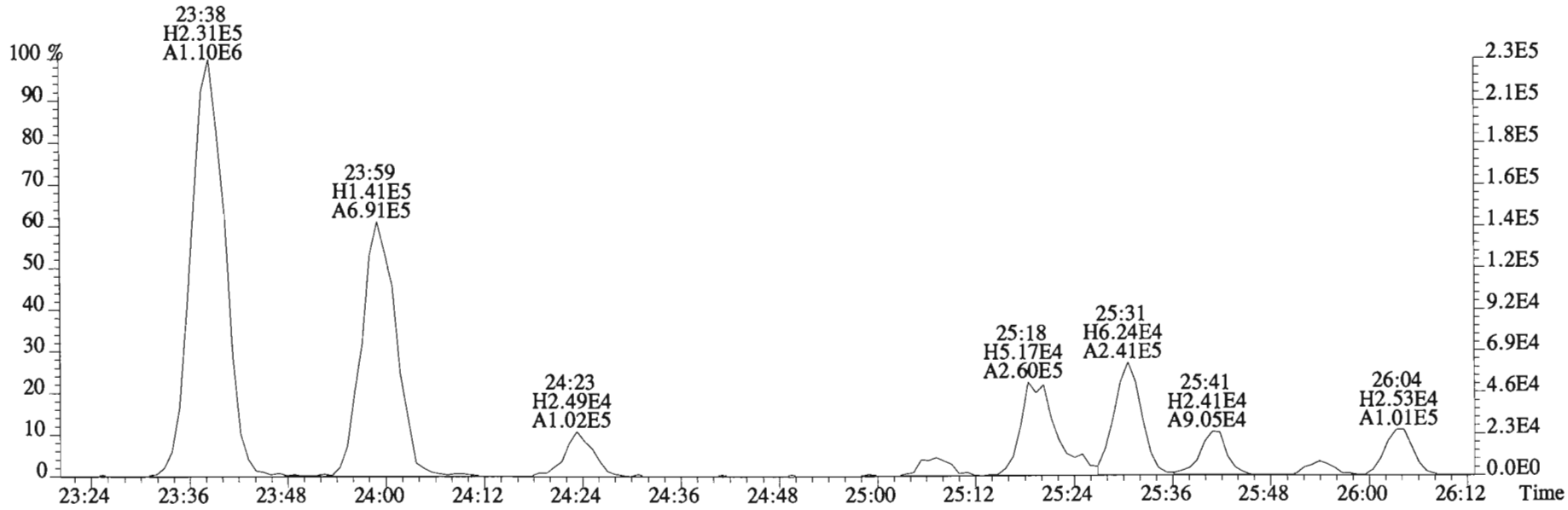
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



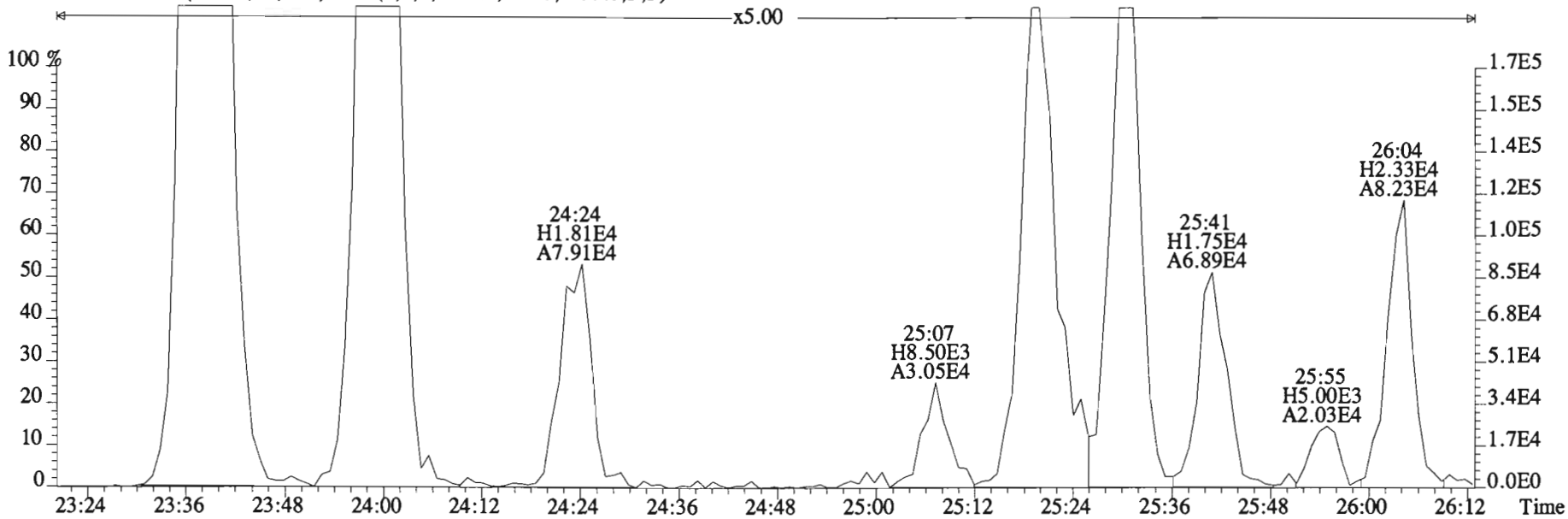
File:150203D1 #1-551 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



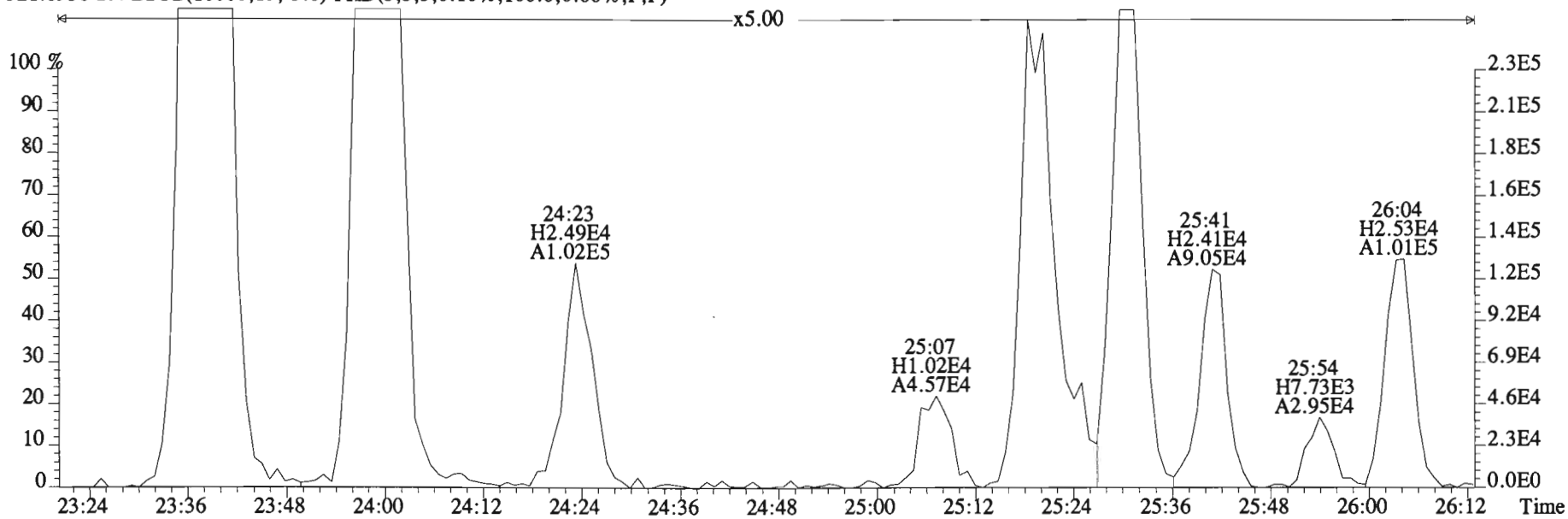
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



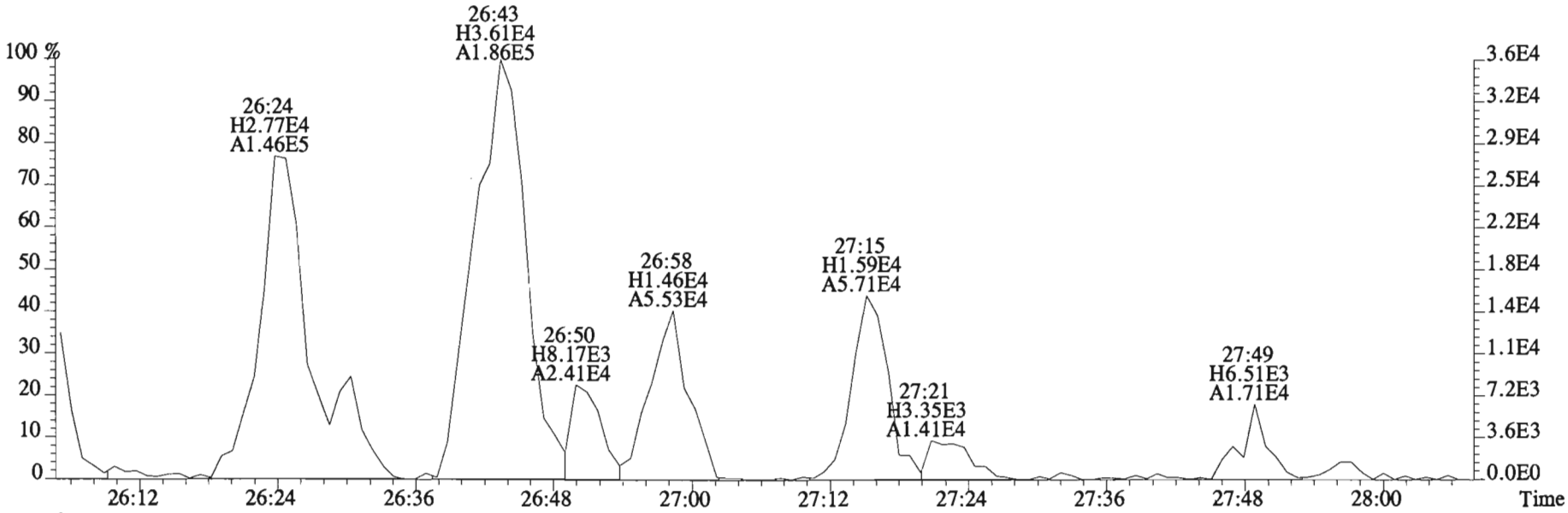
File:150203D1 #1-551 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



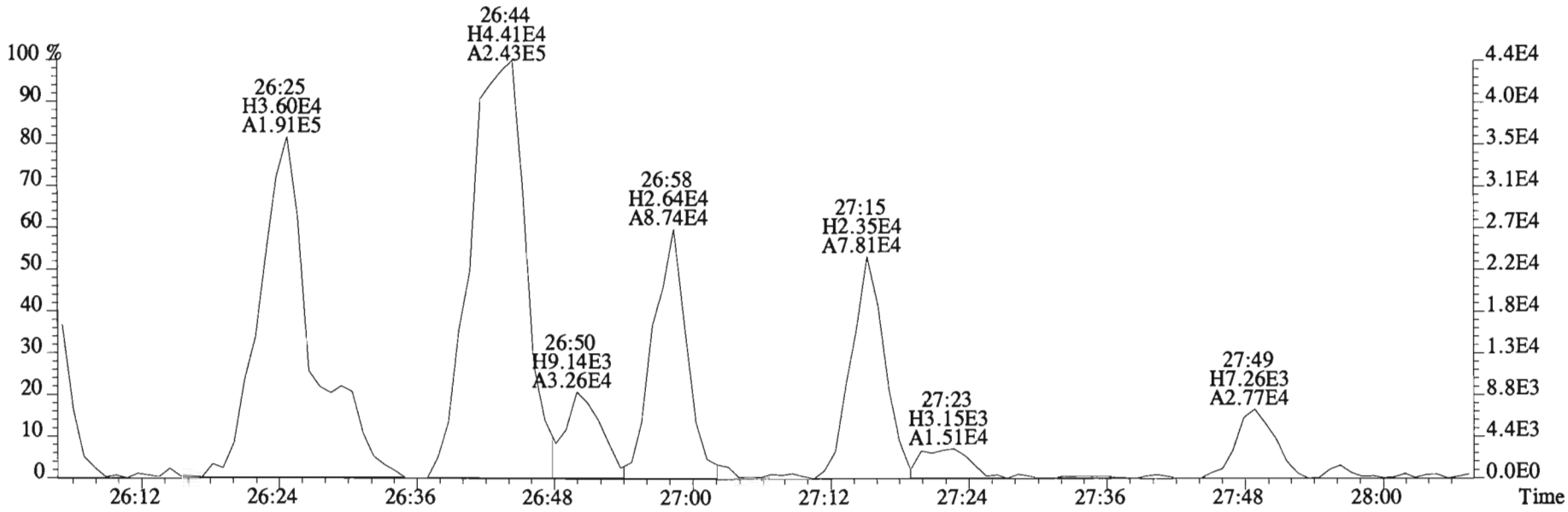
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



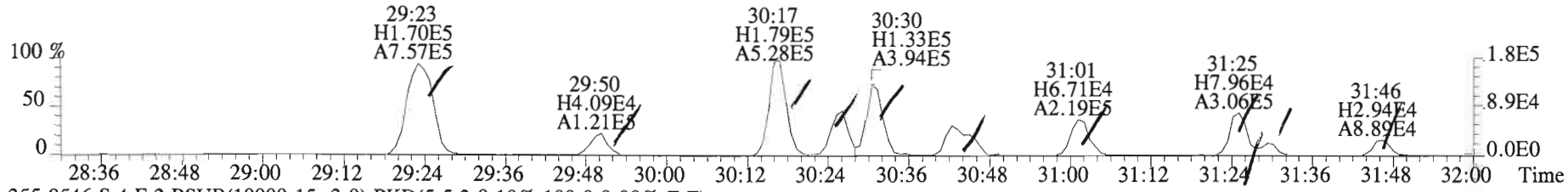
File:150203D1 #1-551 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



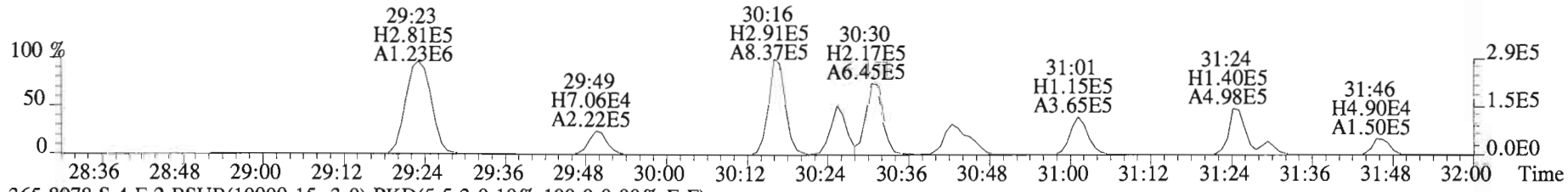
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



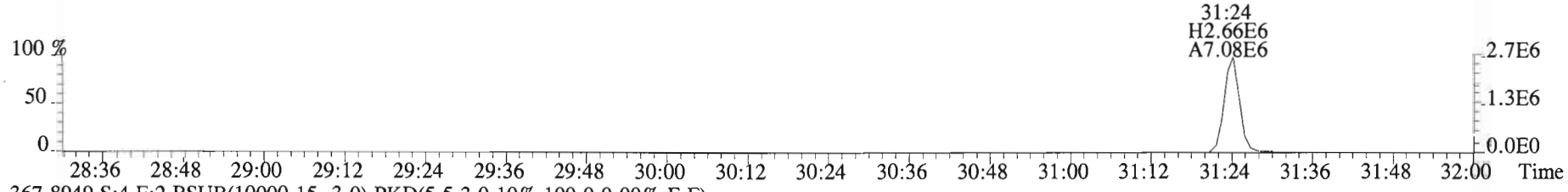
File:150203D1 #1-251 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02 AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



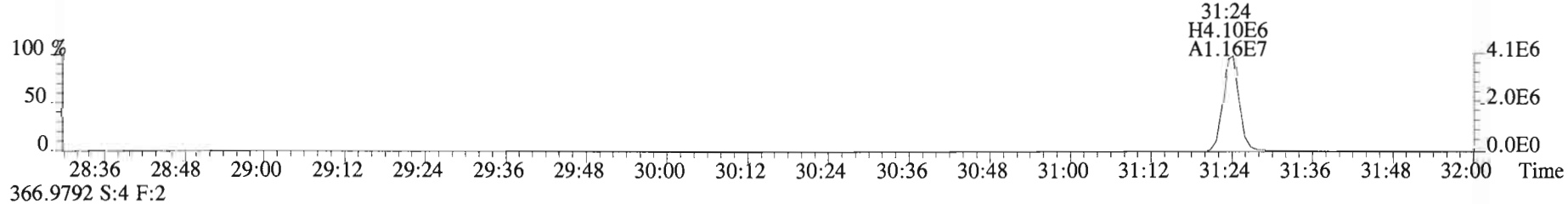
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



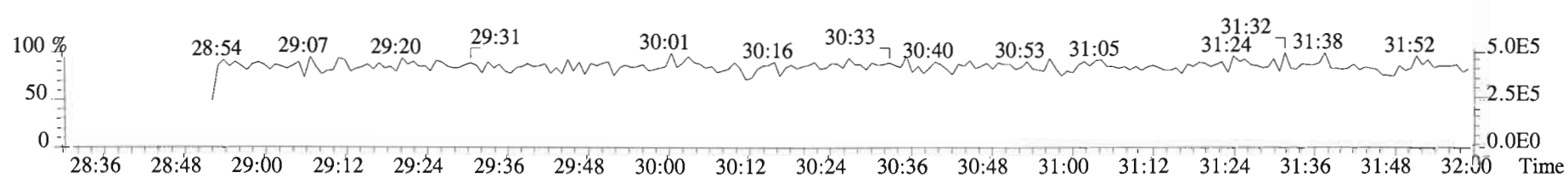
365.8978 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



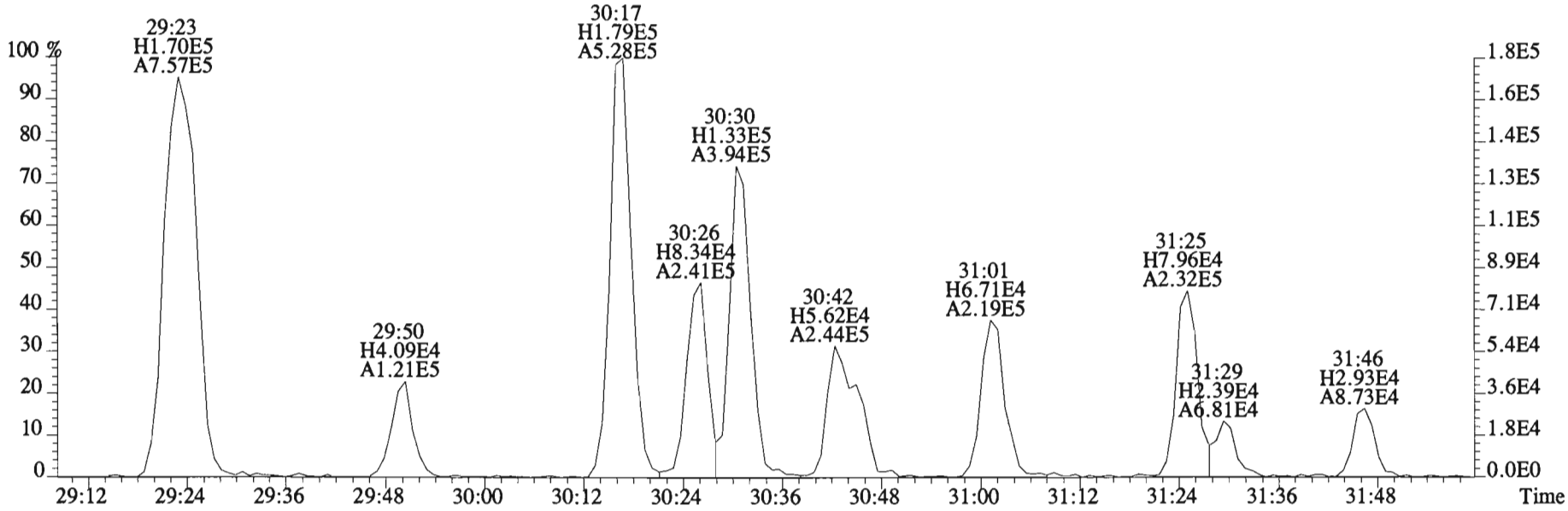
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



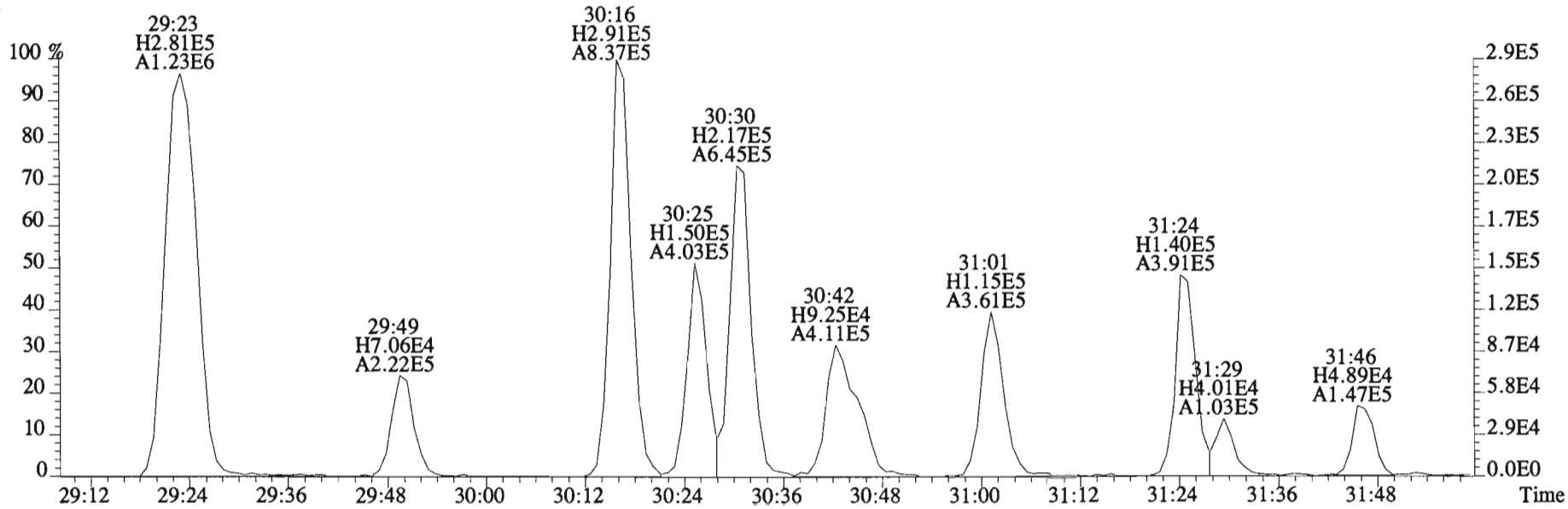
366.9792 S:4 F:2



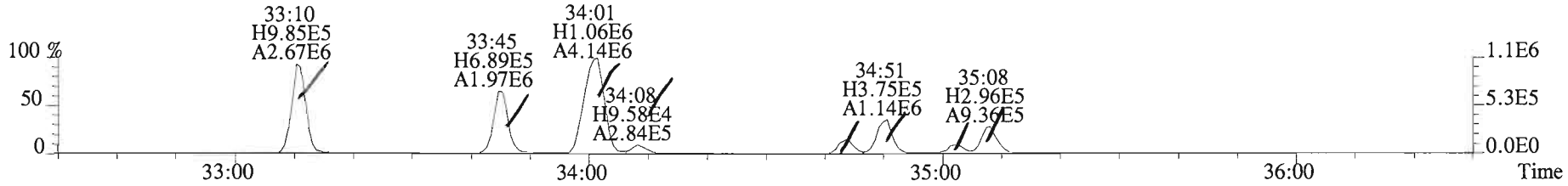
File:150203D1 #1-251 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
353.8576 S:4 F:2 BSUB(10000,15,-3.0)



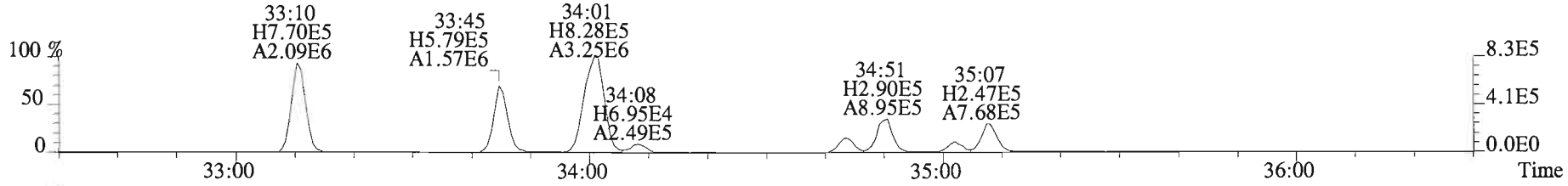
355.8546 S:4 F:2 BSUB(10000,15,-3.0)



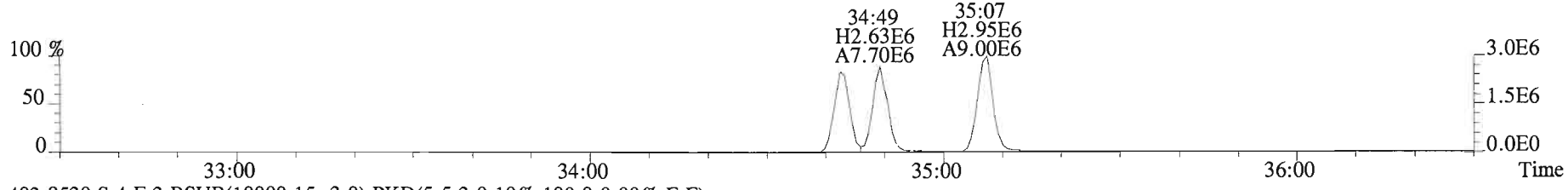
File:150203D1 #1-392 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02 AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



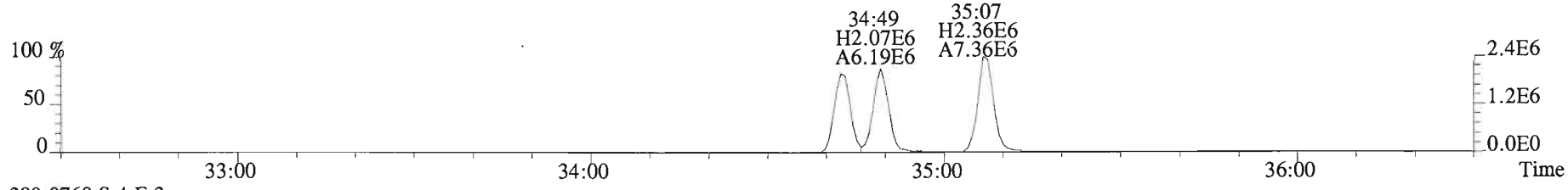
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



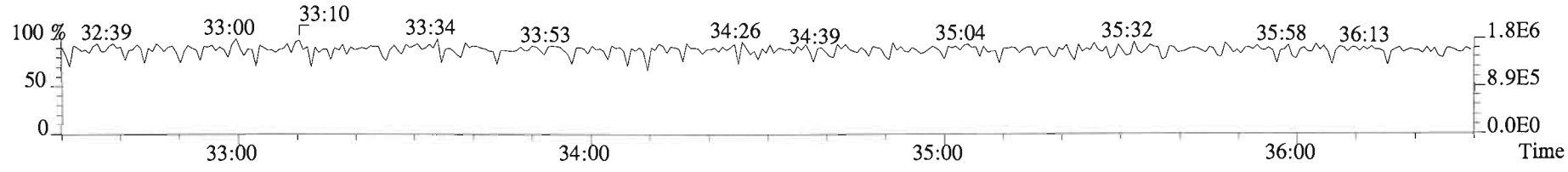
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



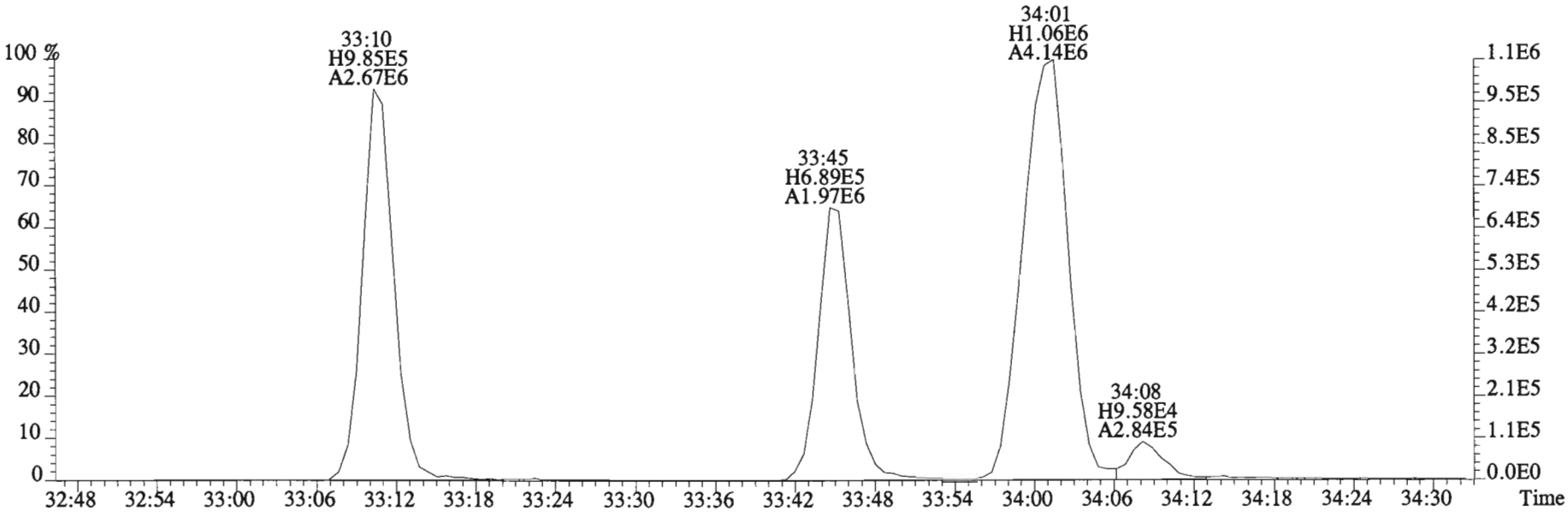
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



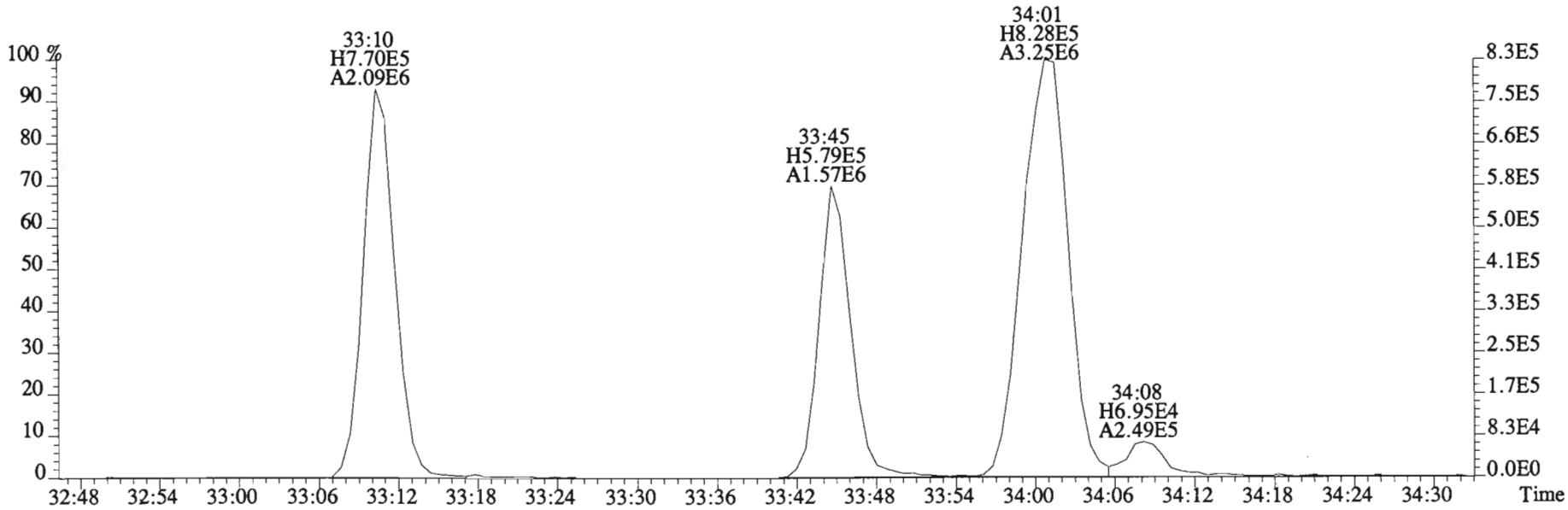
380.9760 S:4 F:3



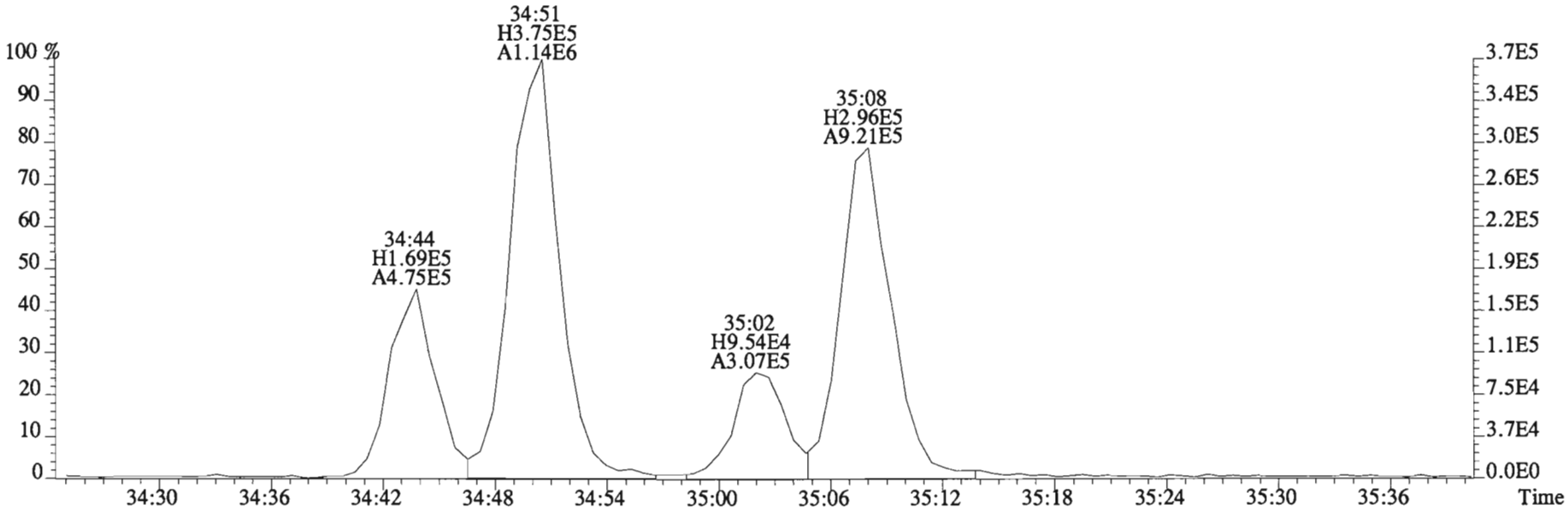
File:150203D1 #1-392 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



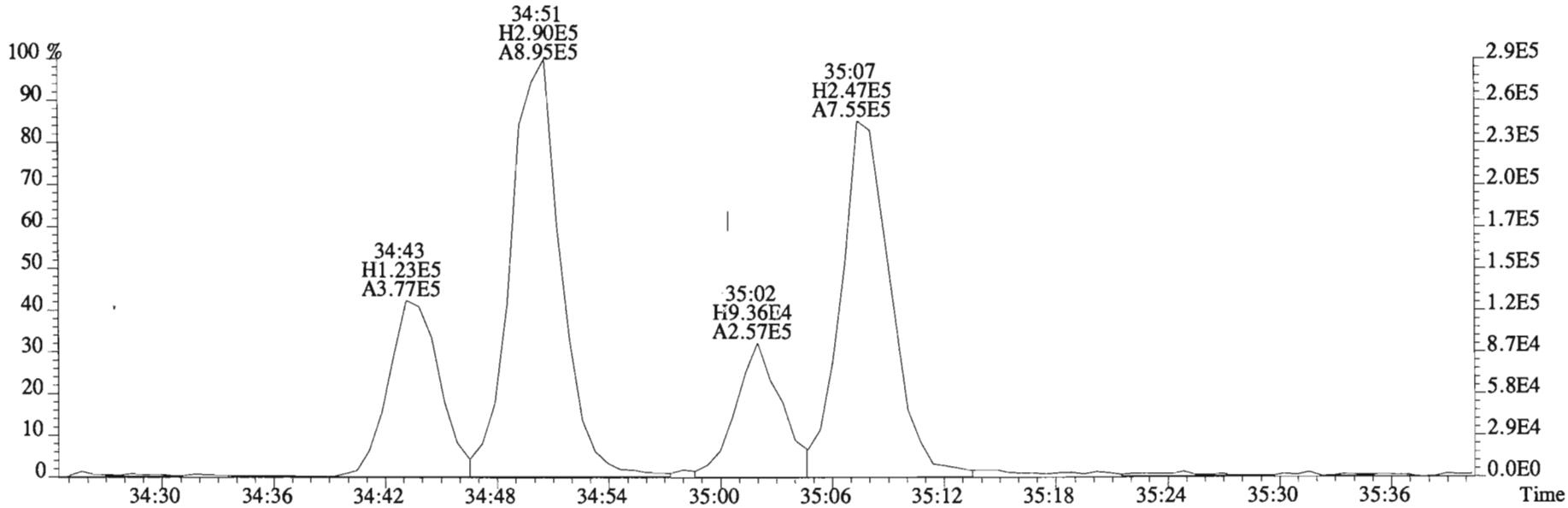
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



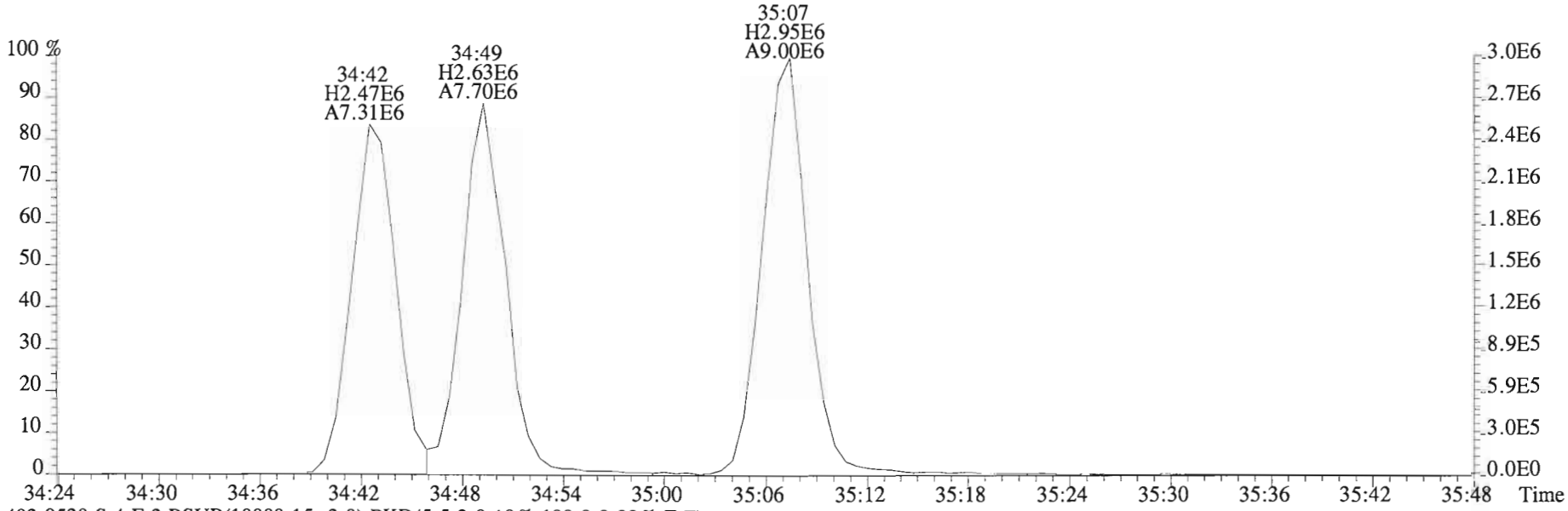
File:150203D1 #1-392 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



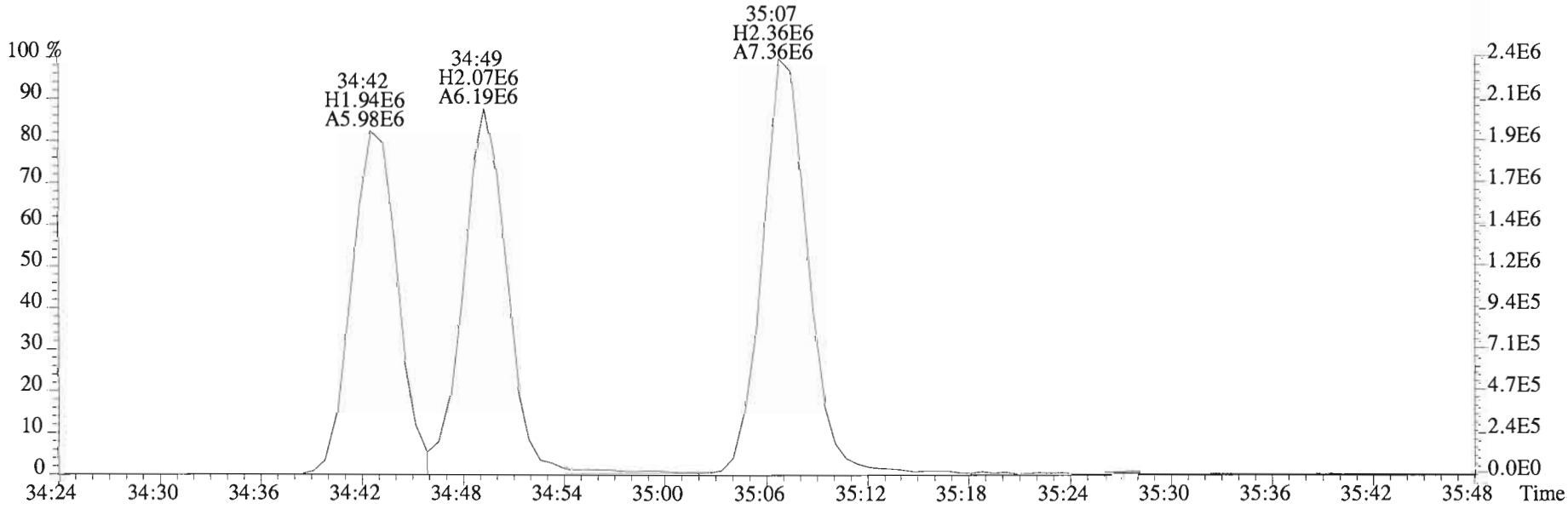
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



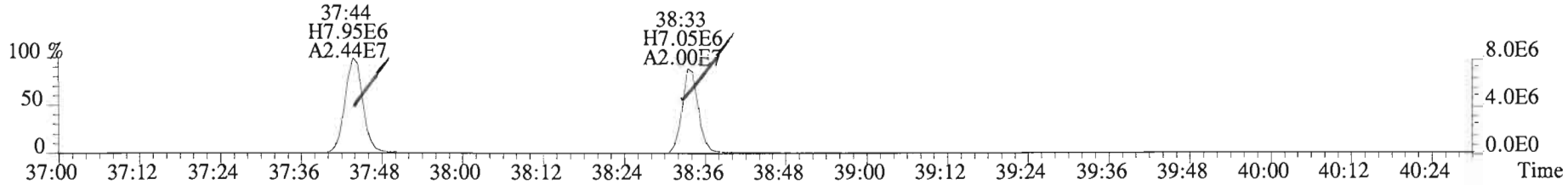
File:150203D1 #1-392 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02 AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



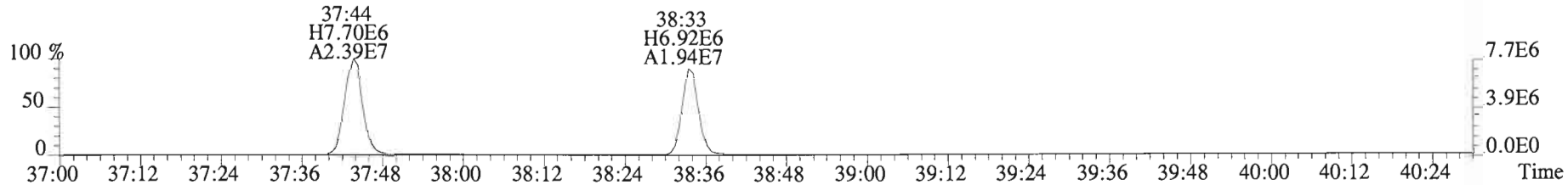
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



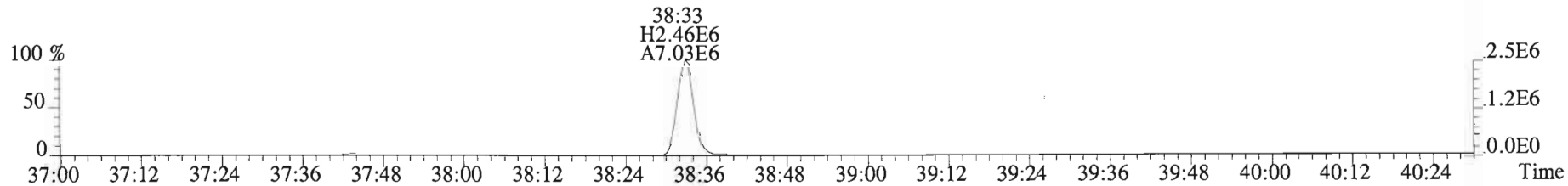
File:150203D1 #1-326 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02 AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



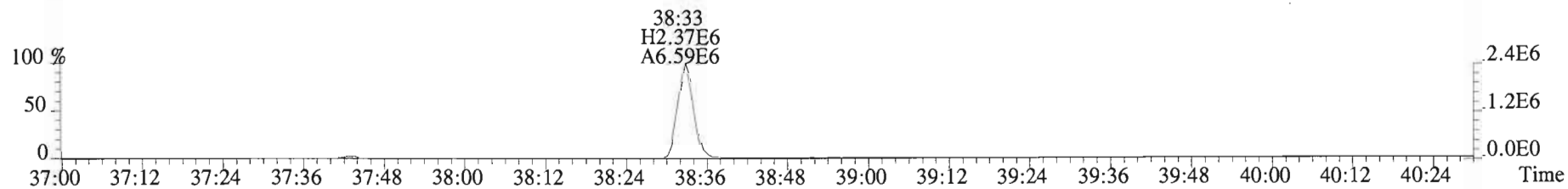
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



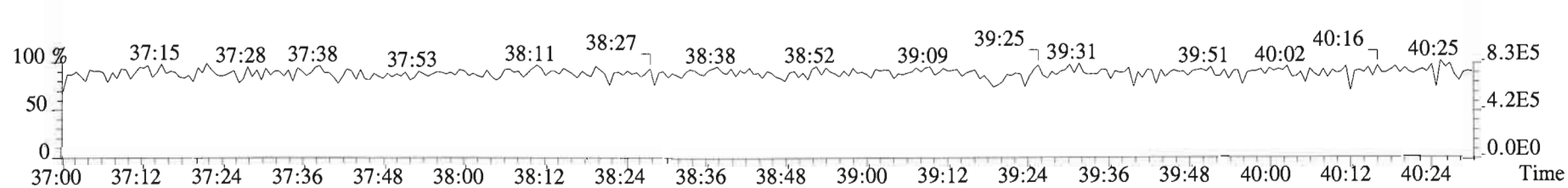
435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



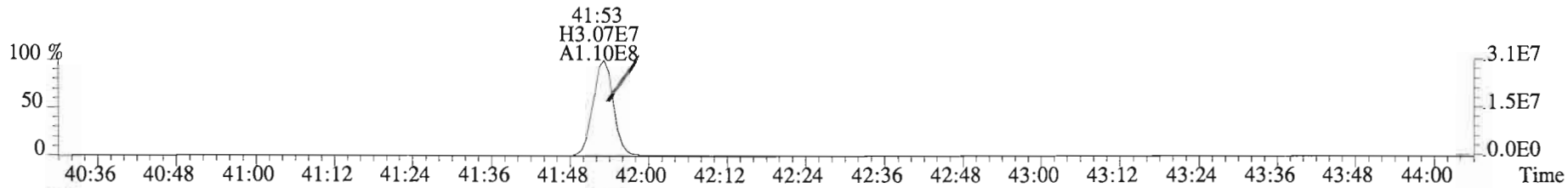
437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



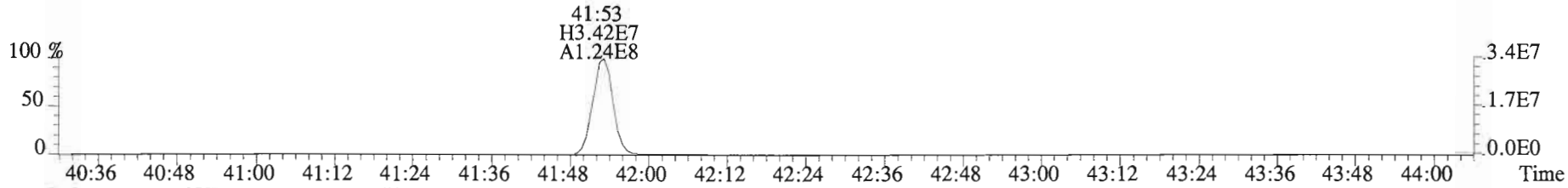
430.9728 S:4 F:4



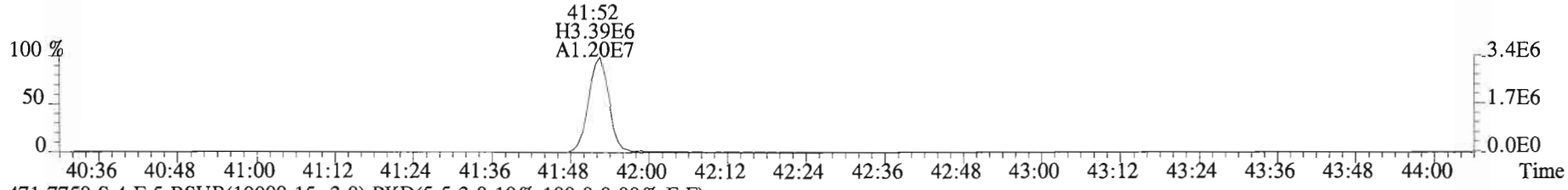
File:150203D1 #1-388 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02 AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



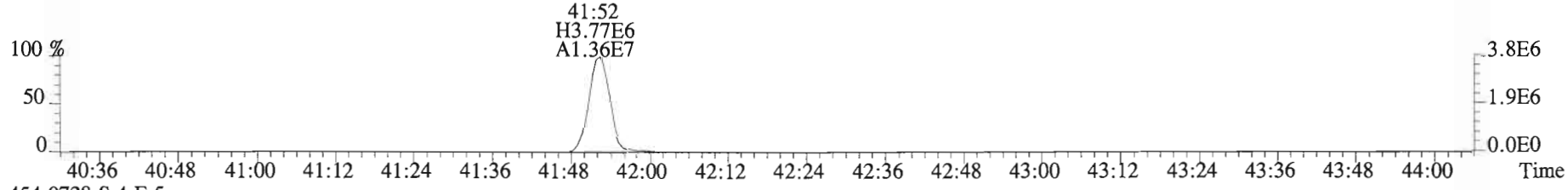
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



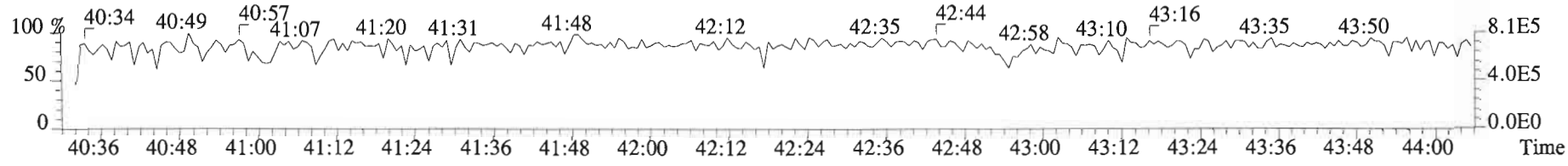
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



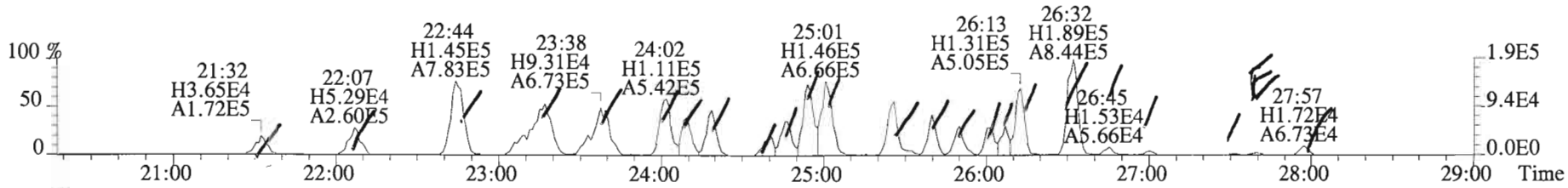
471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



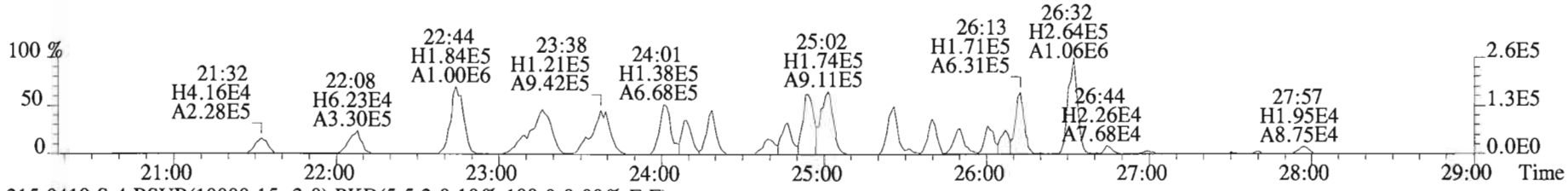
454.9728 S:4 F:5



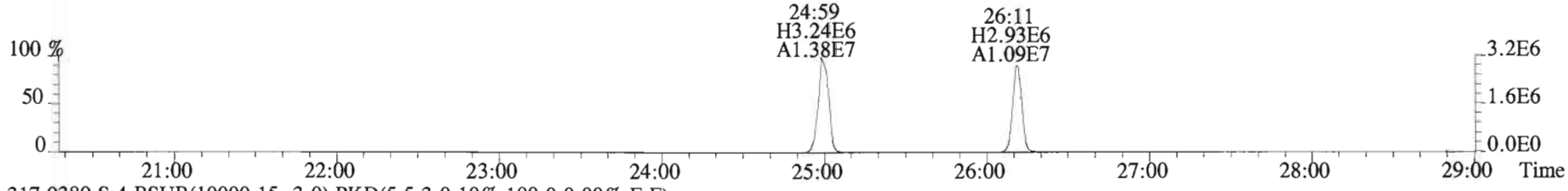
File:150203D1 #1-551 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02 AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



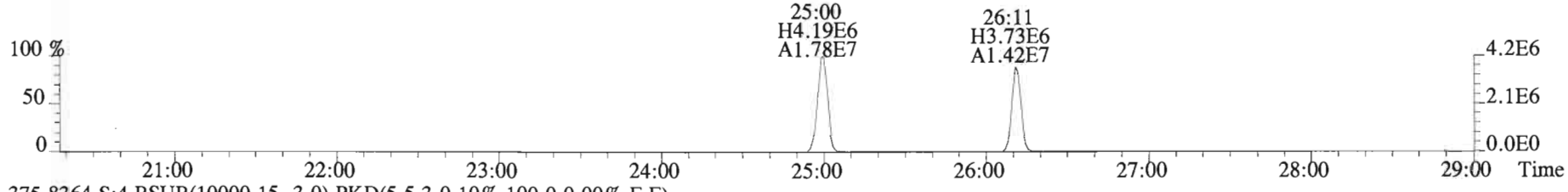
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



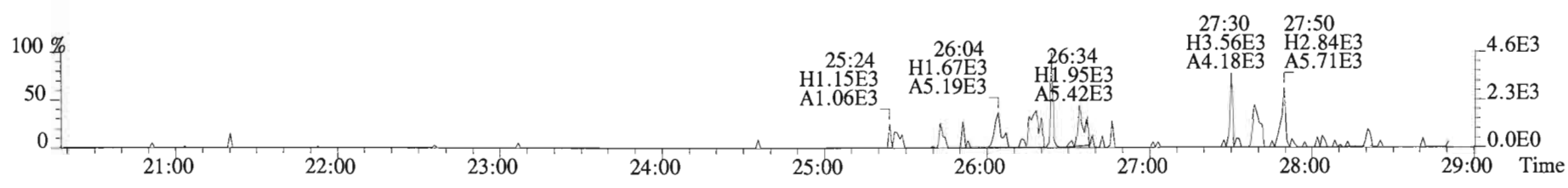
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



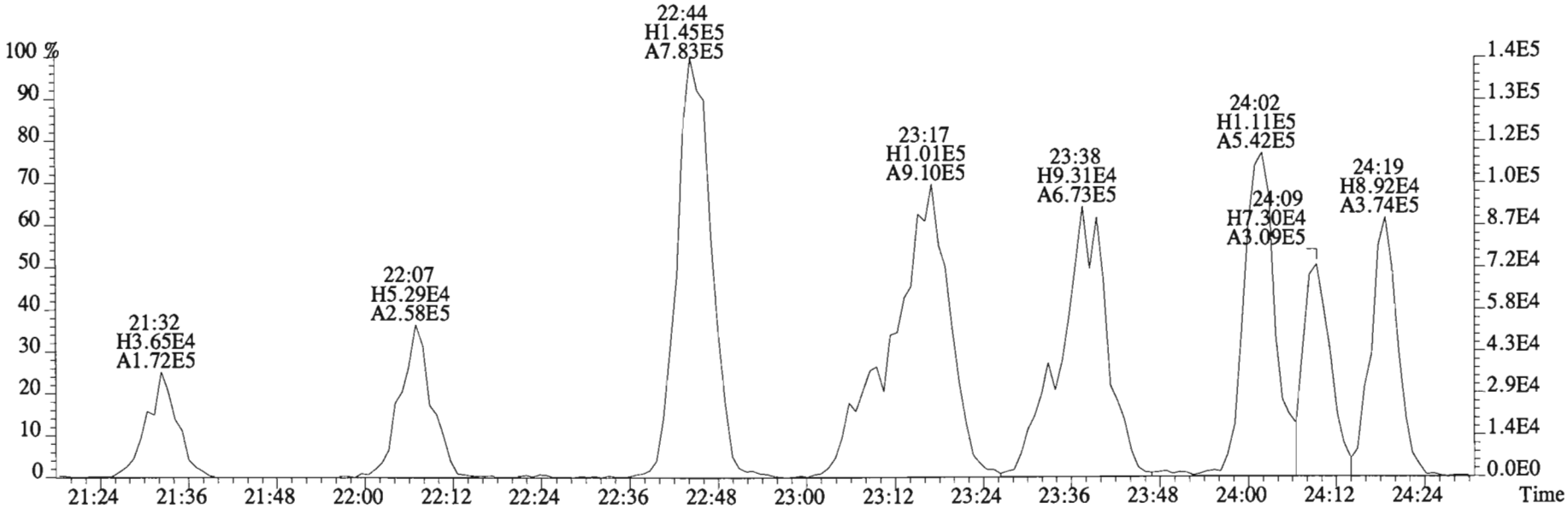
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



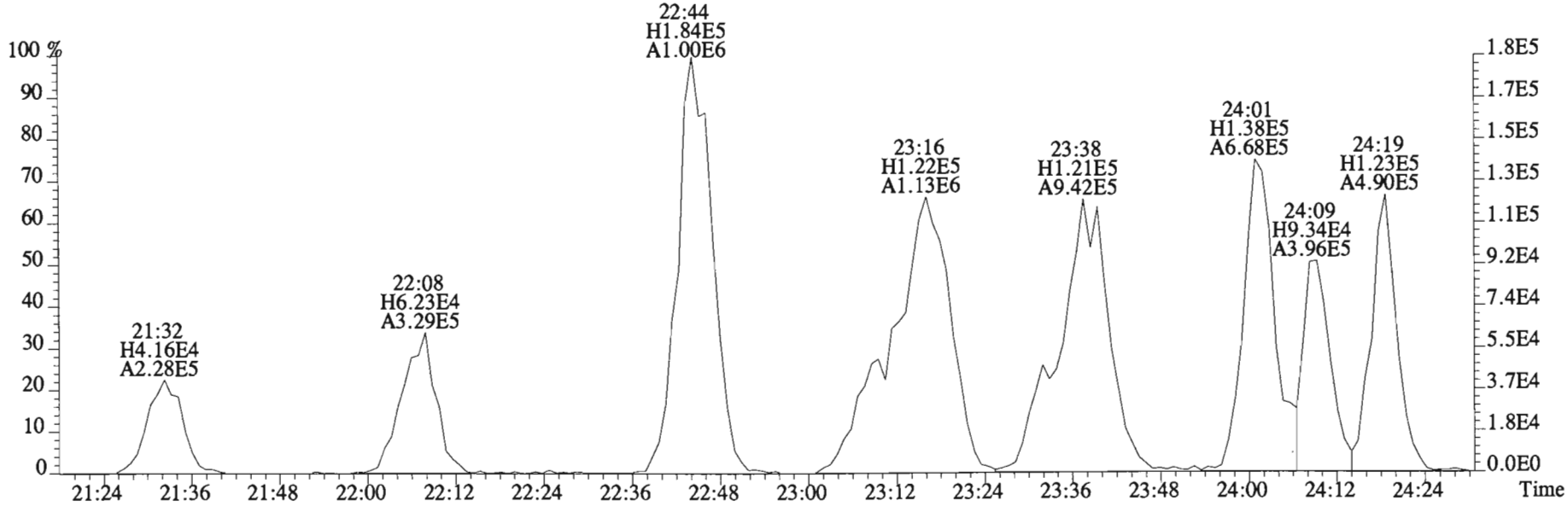
375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



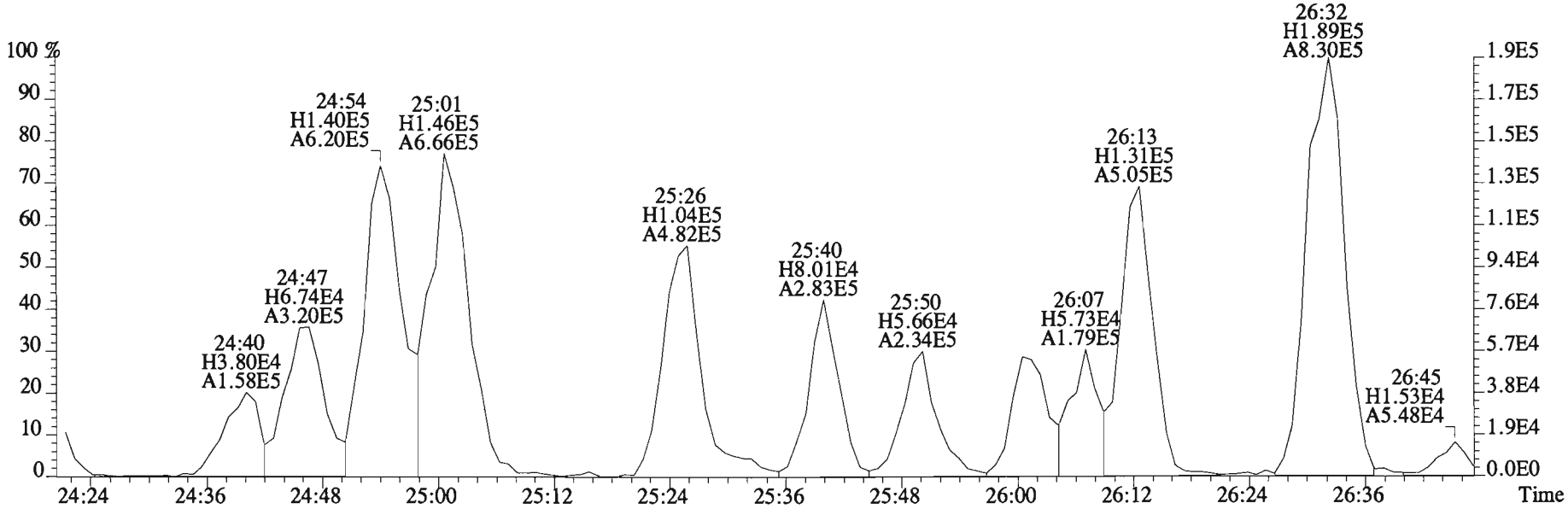
File:150203D1 #1-551 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



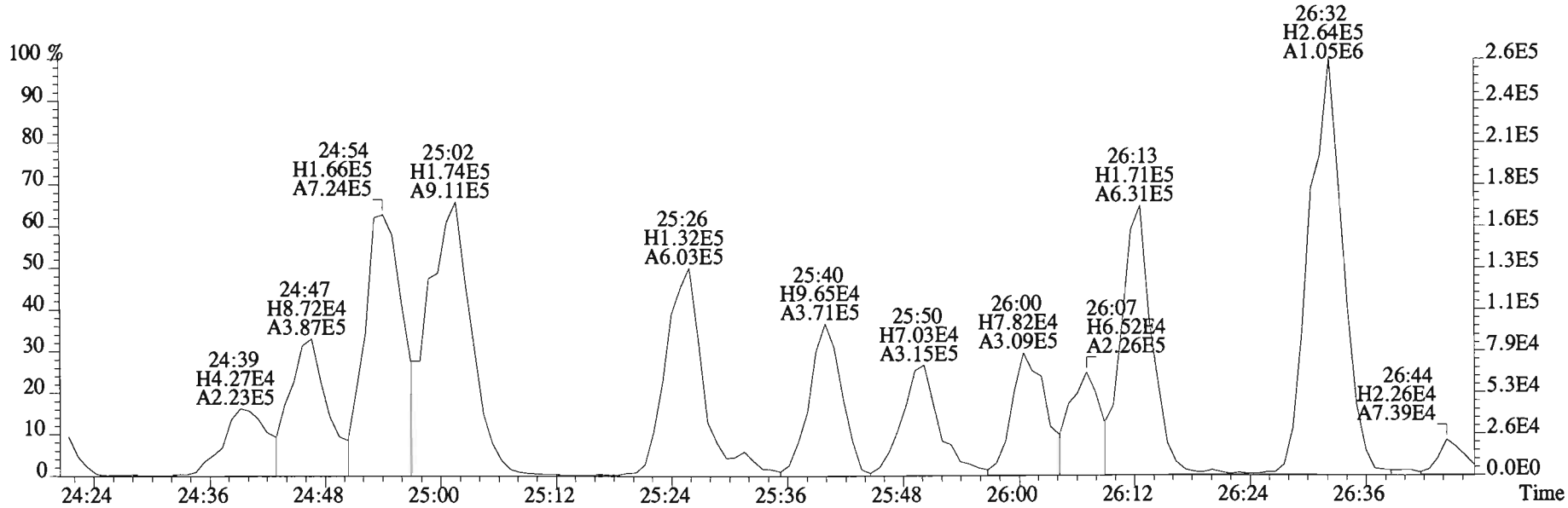
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



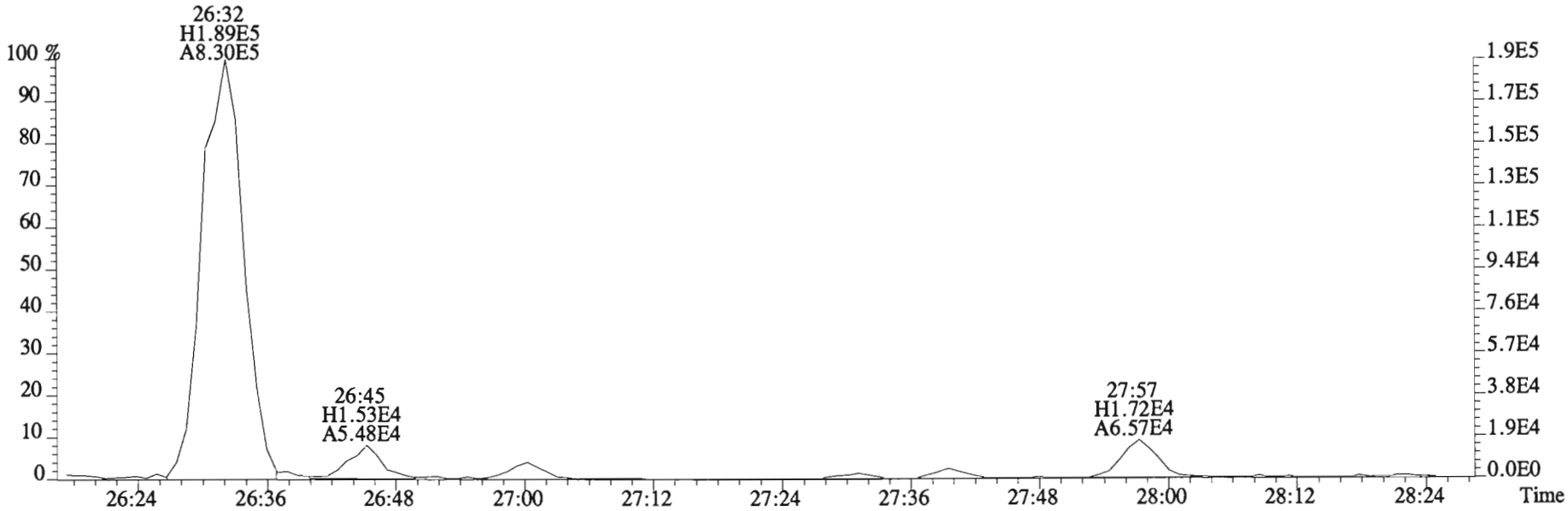
File:150203D1 #1-551 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



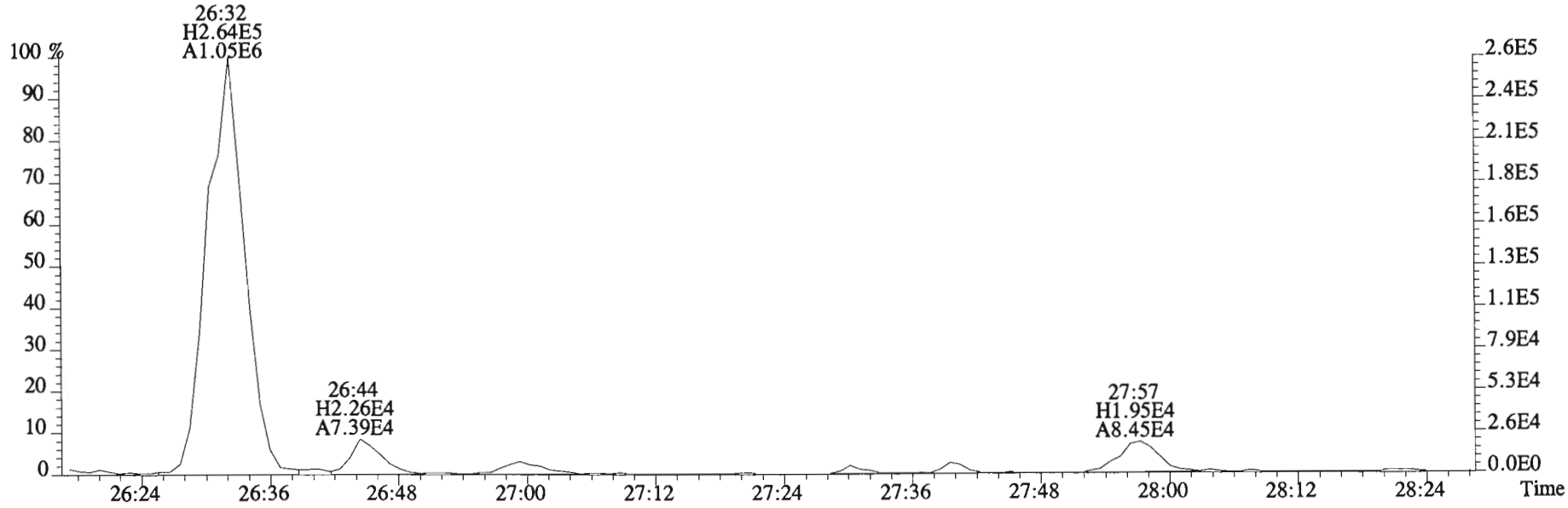
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



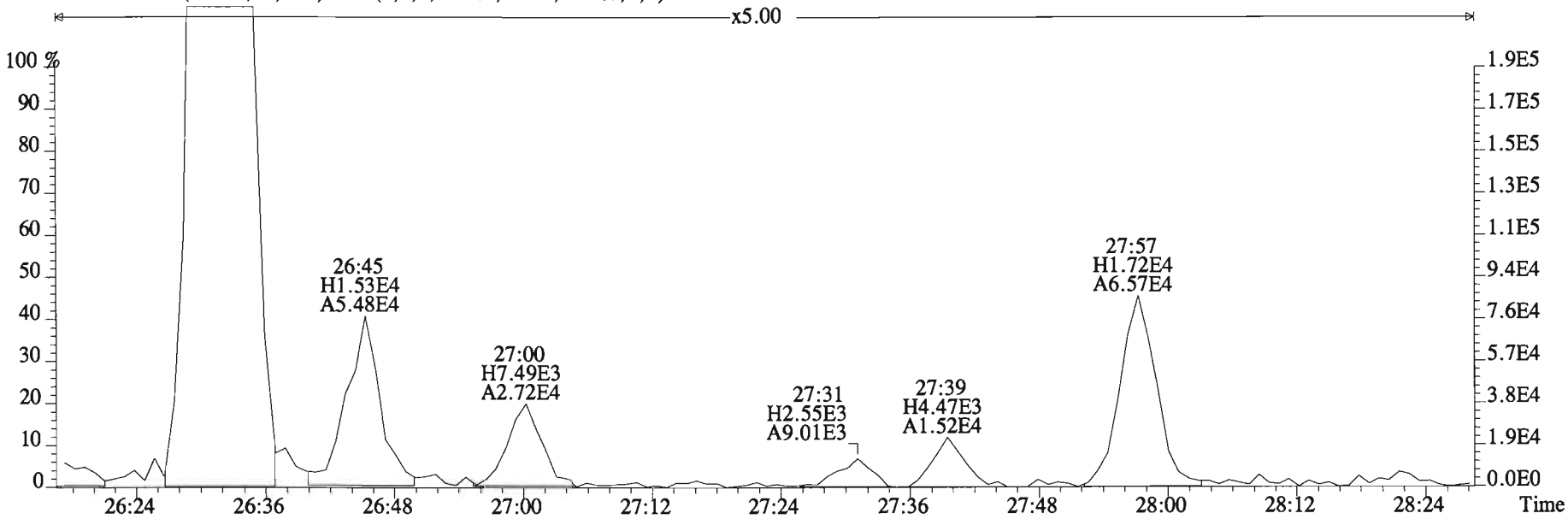
File:150203D1 #1-551 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



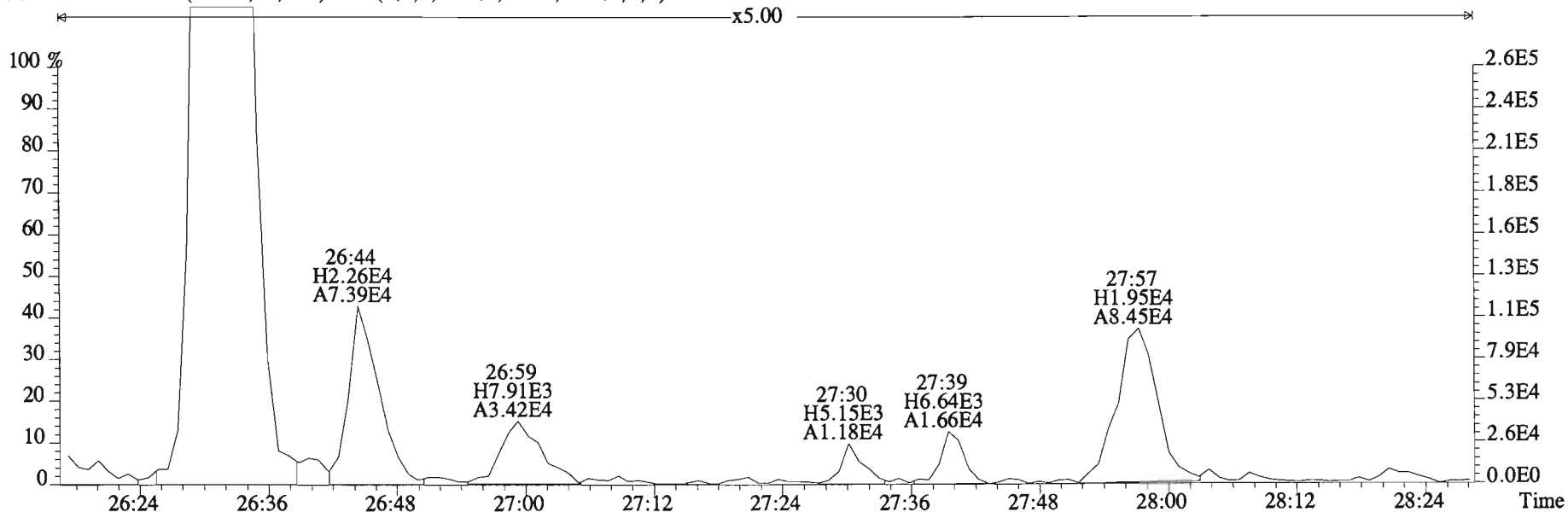
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



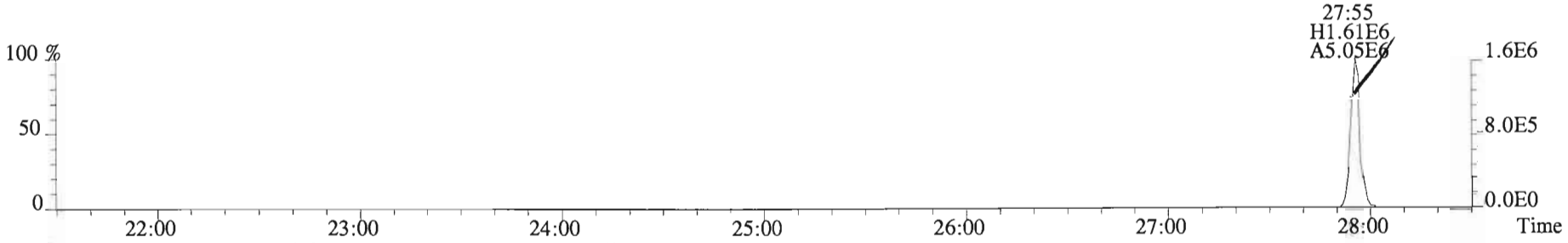
File:150203D1 #1-551 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



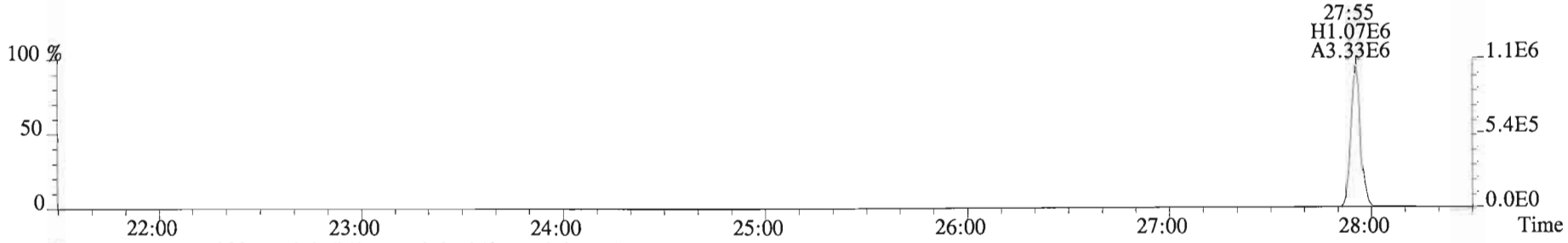
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



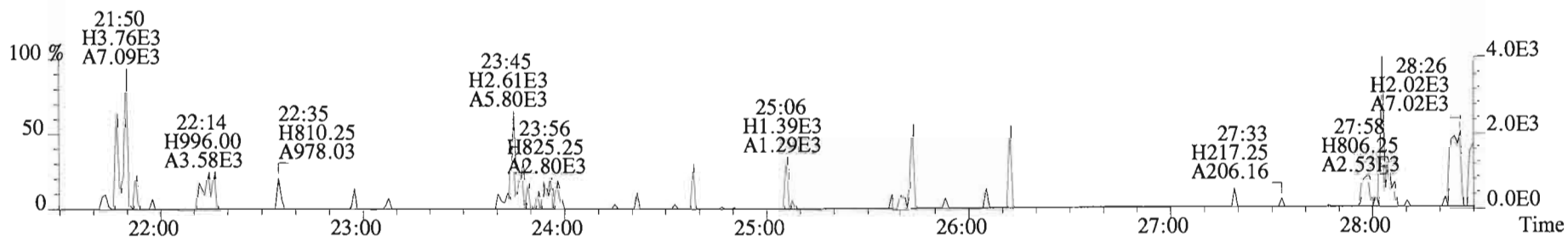
File:150203D1 #1-551 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02 AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



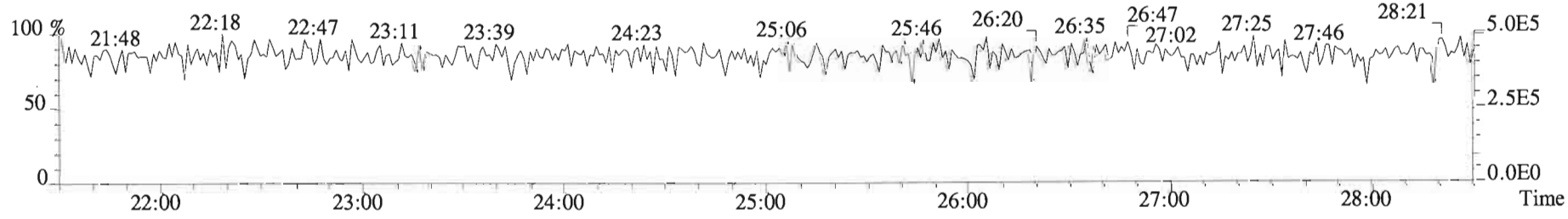
341.8568 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



409.7974 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

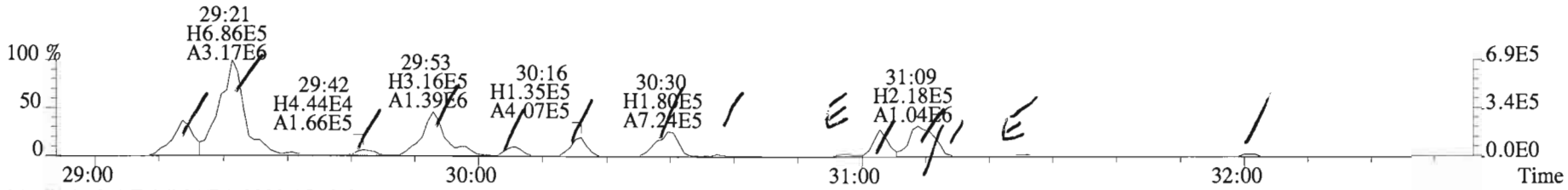


316.9824 S:4

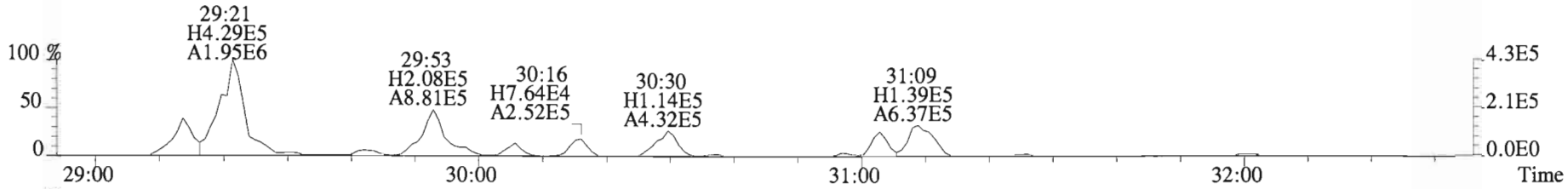


File:150203D1 #1-251 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02 AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5

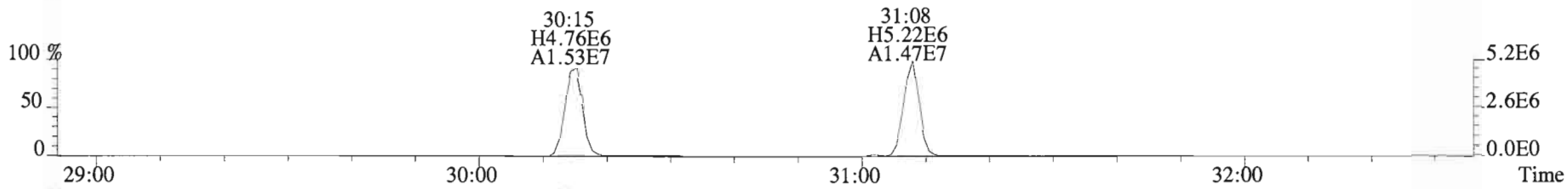
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



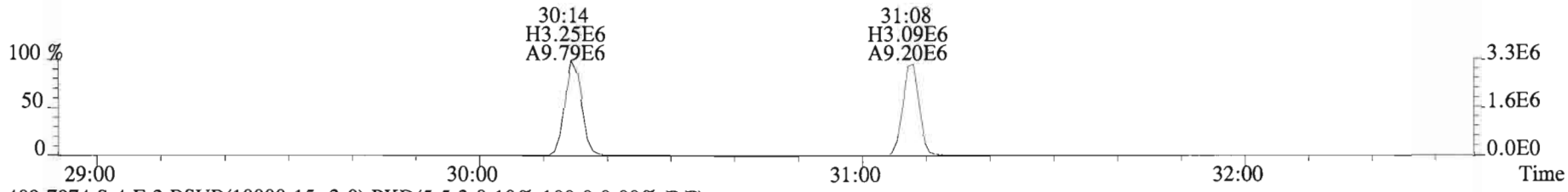
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



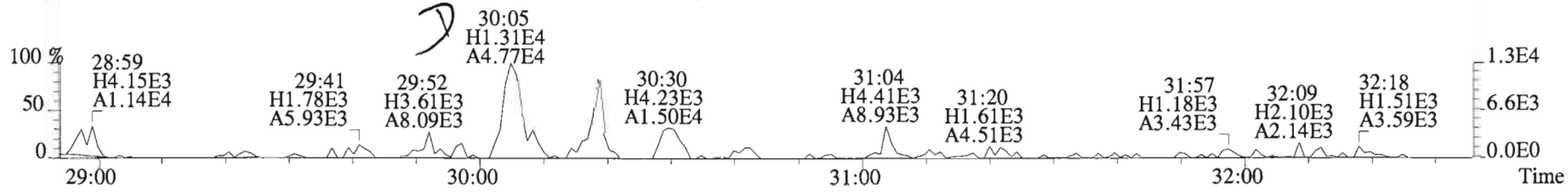
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



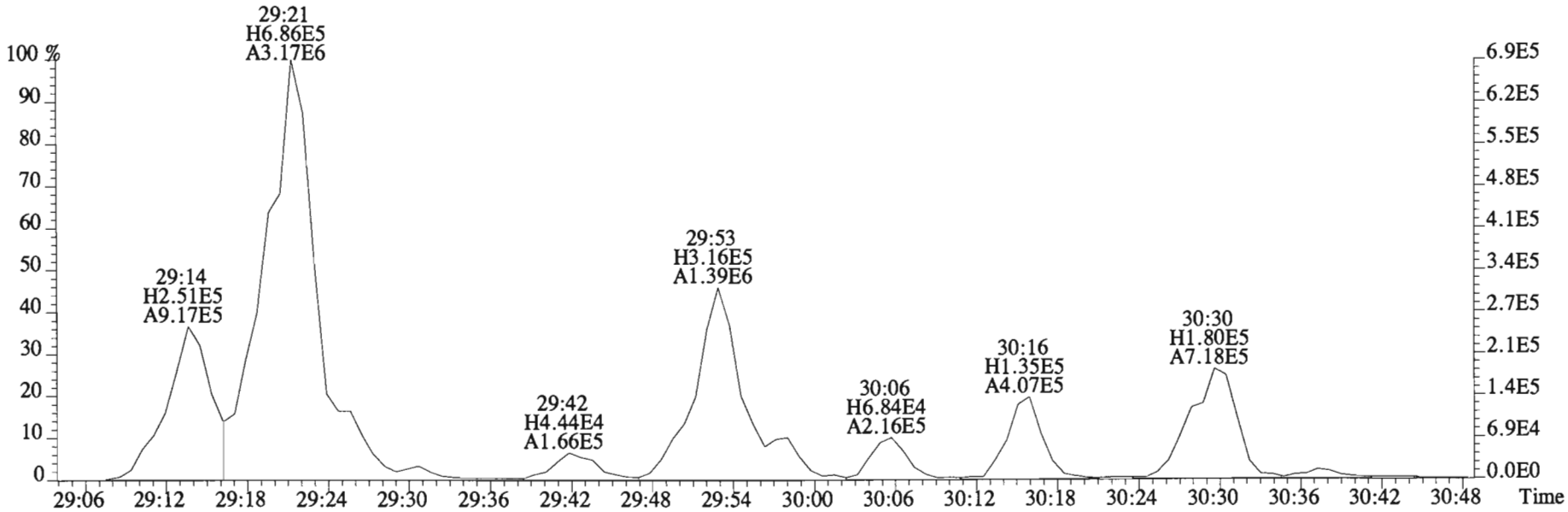
353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



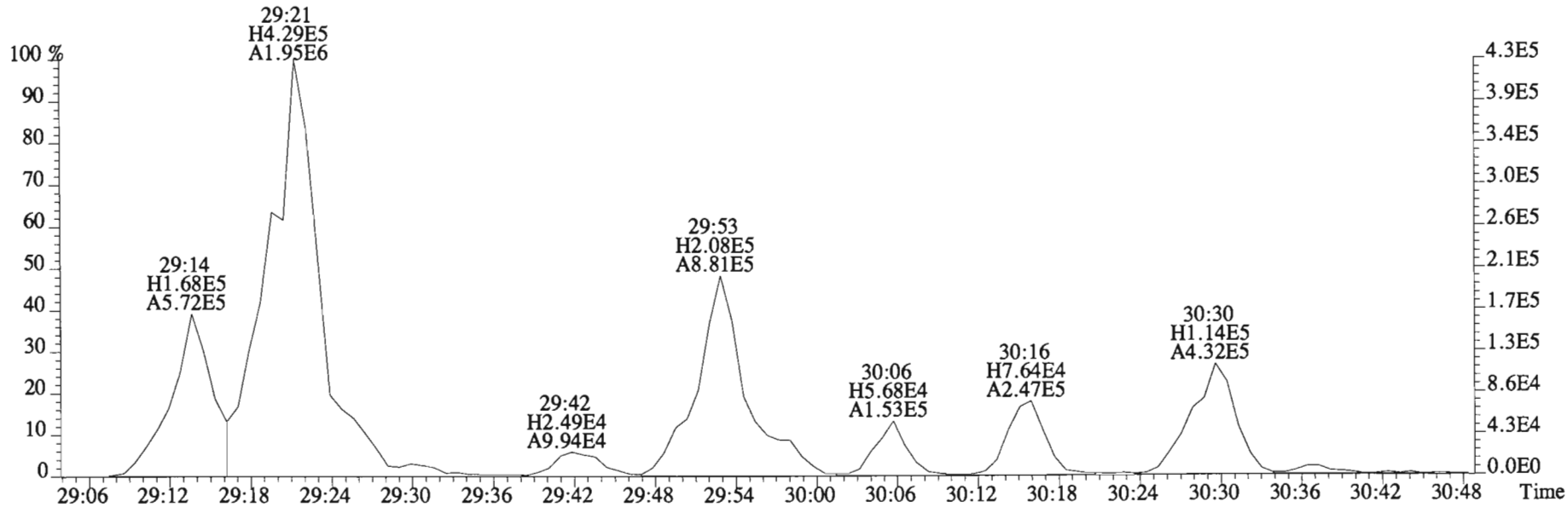
409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



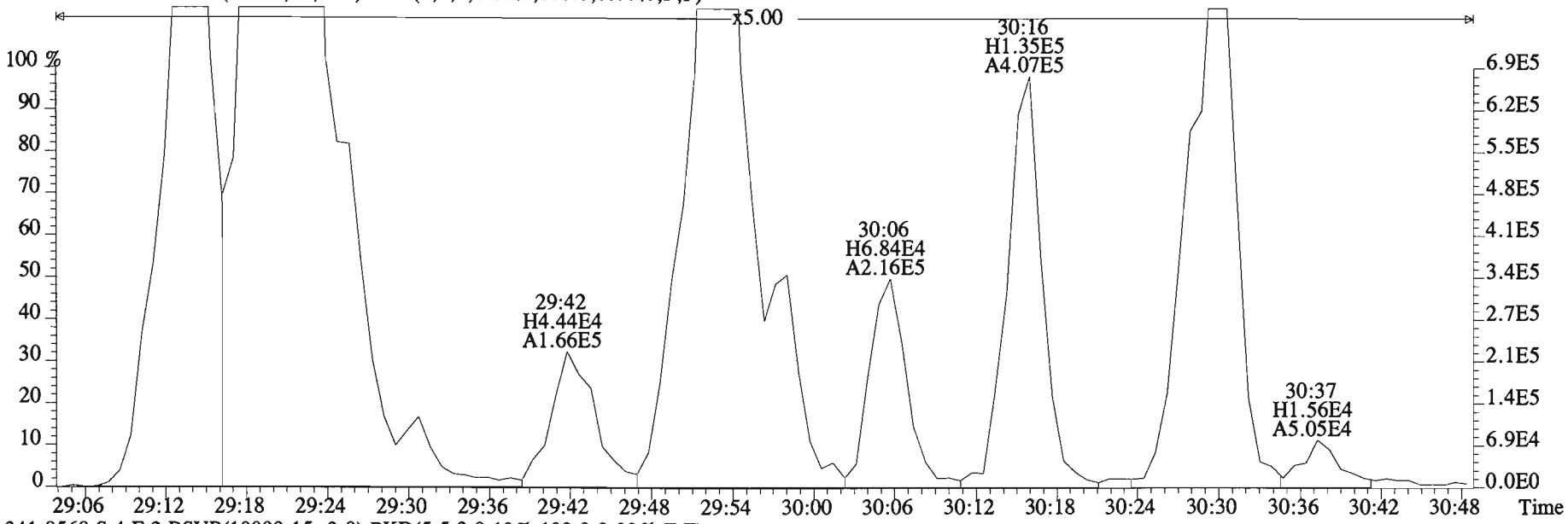
File:150203D1 #1-251 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



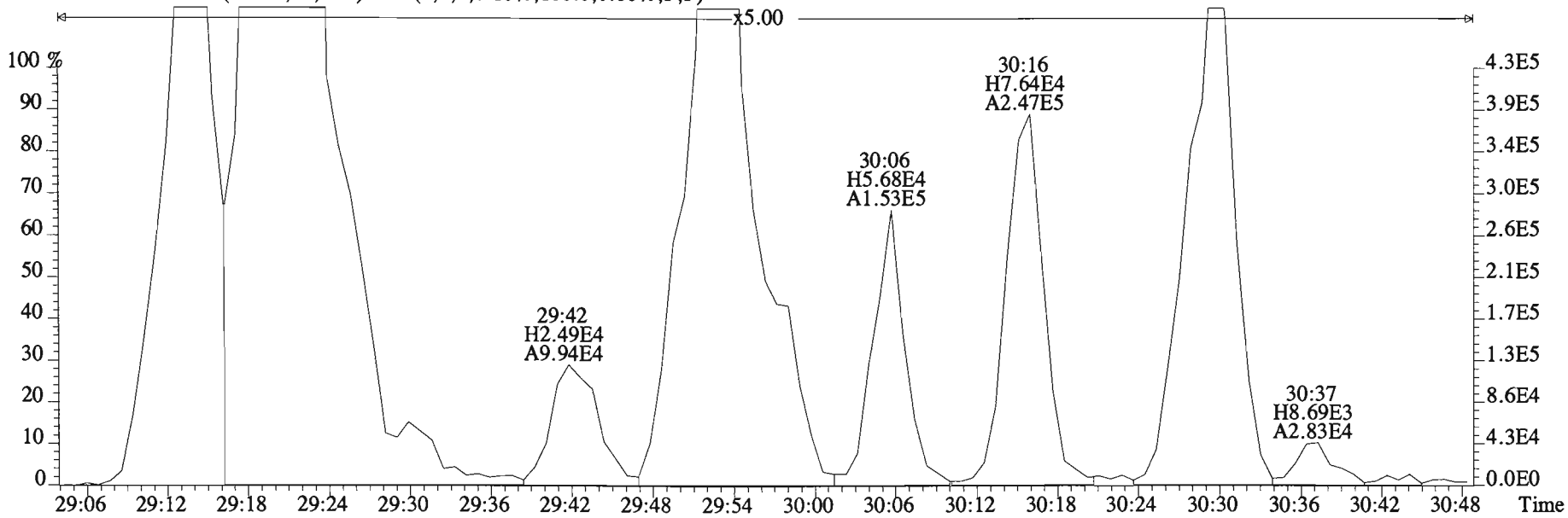
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



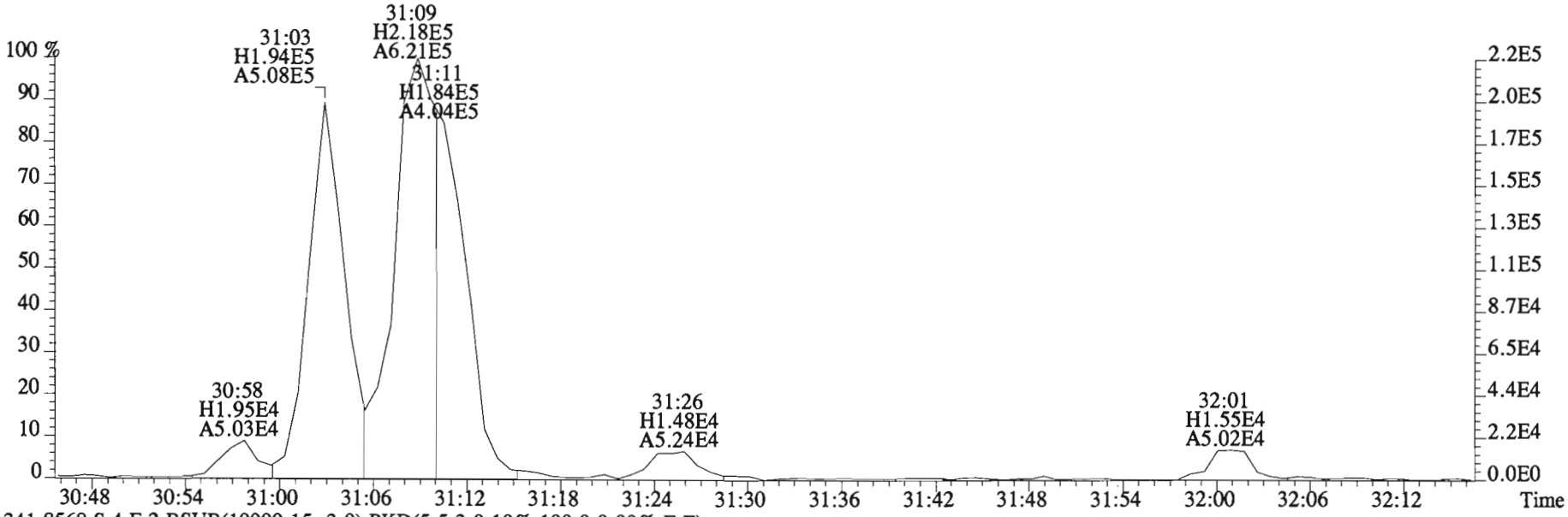
File:150203D1 #1-251 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



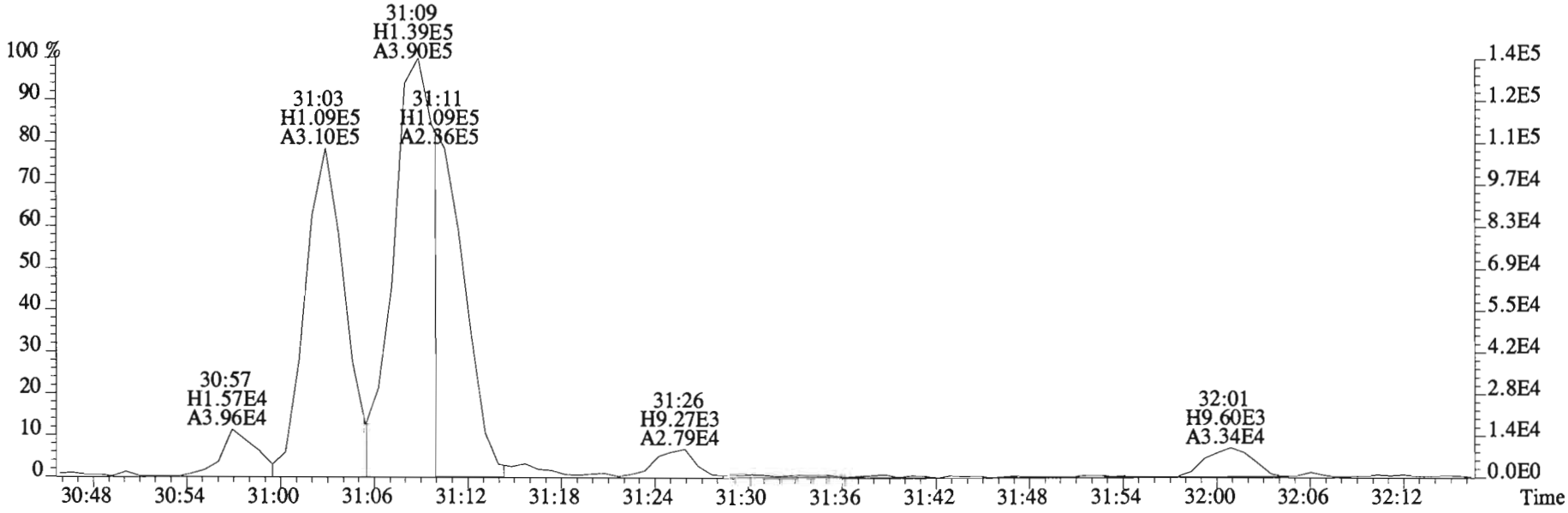
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:150203D1 #1-251 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0)

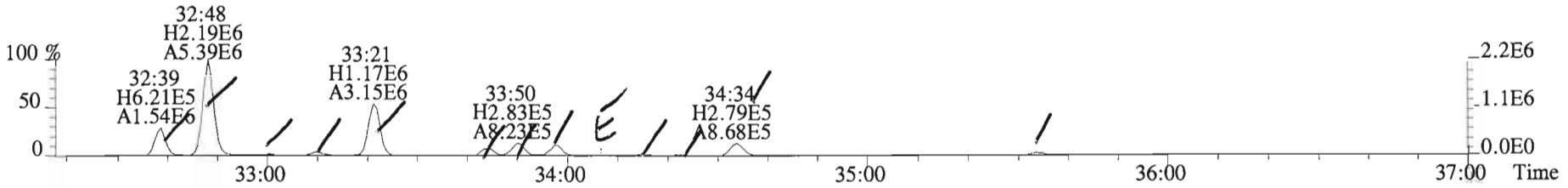


341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

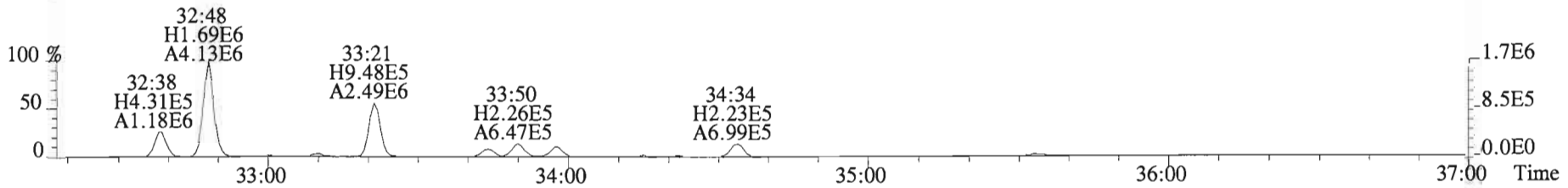


File:150203D1 #1-392 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02 AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5

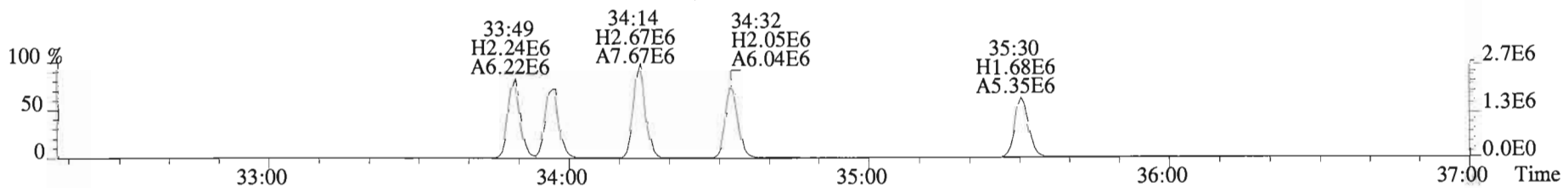
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



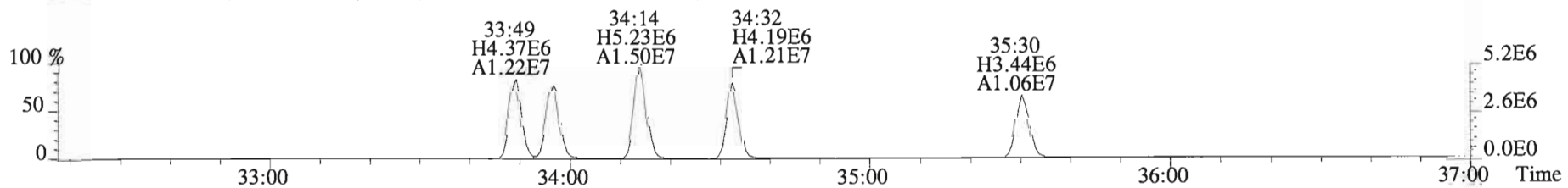
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



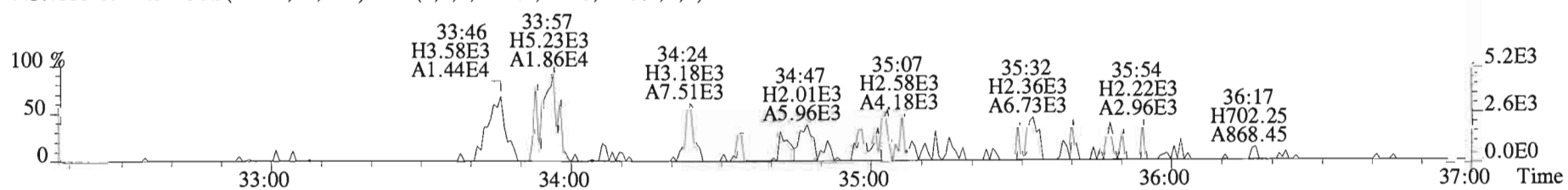
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



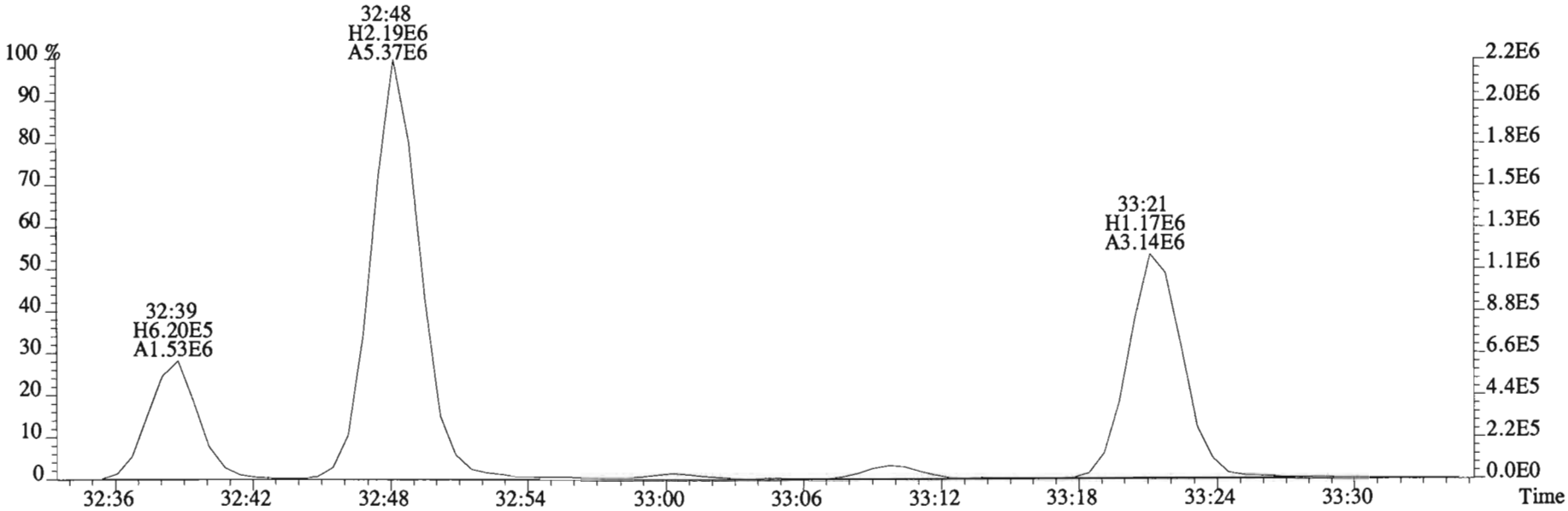
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



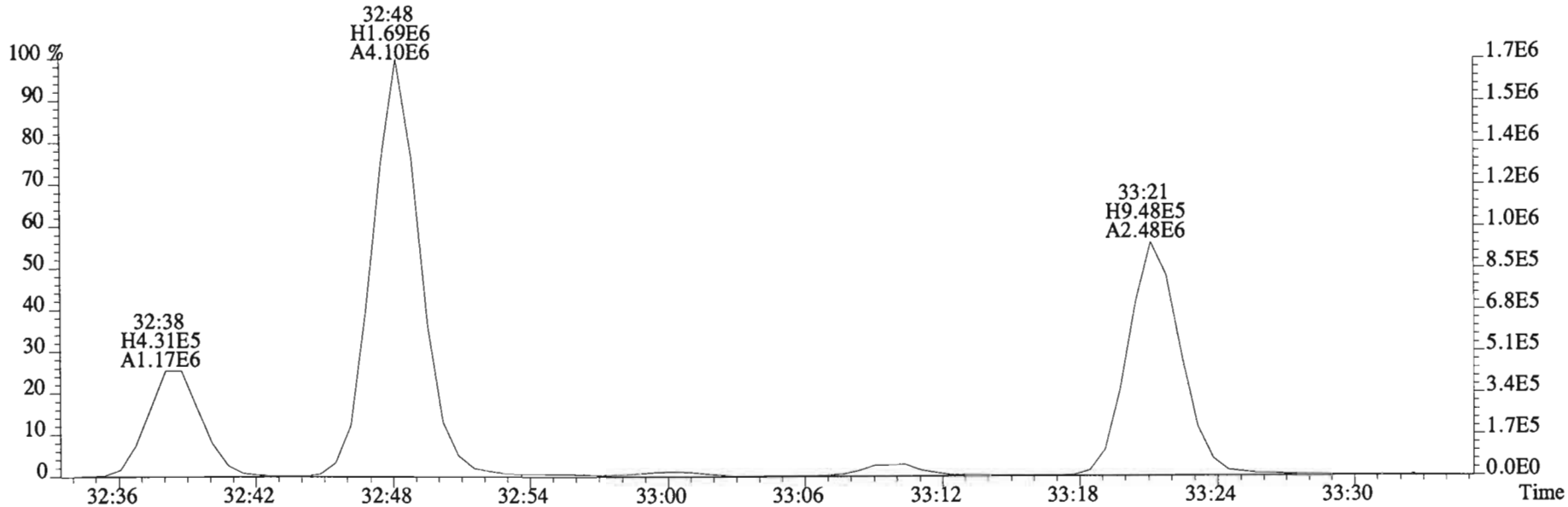
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



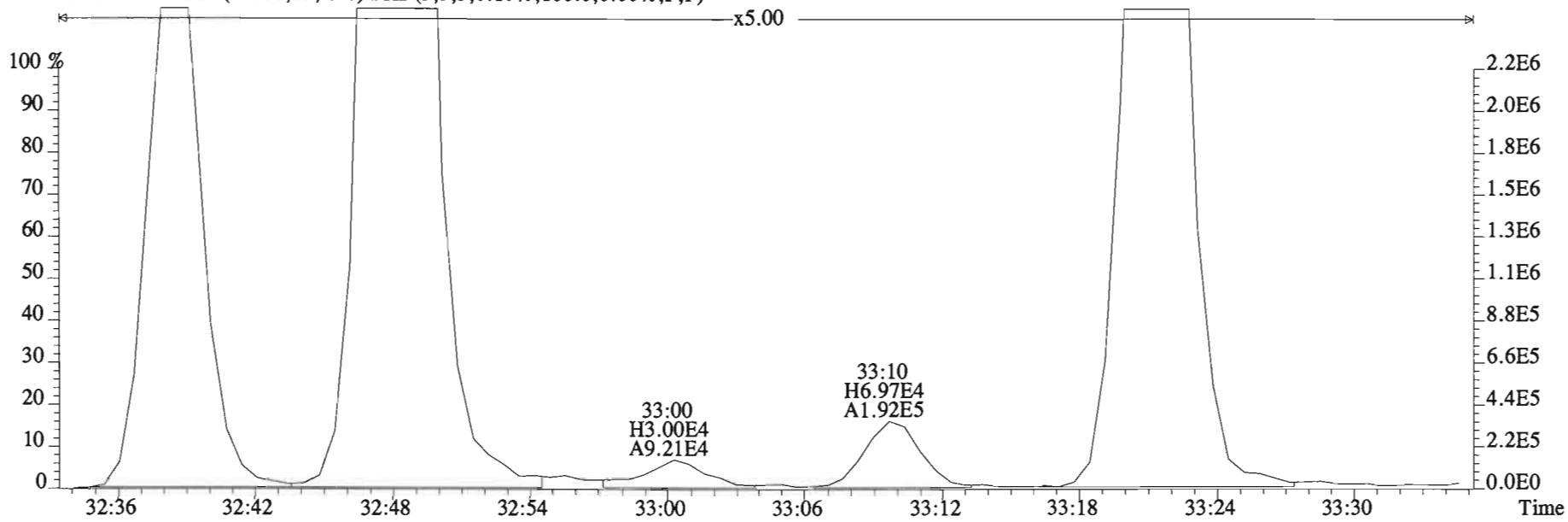
File:150203D1 #1-392 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



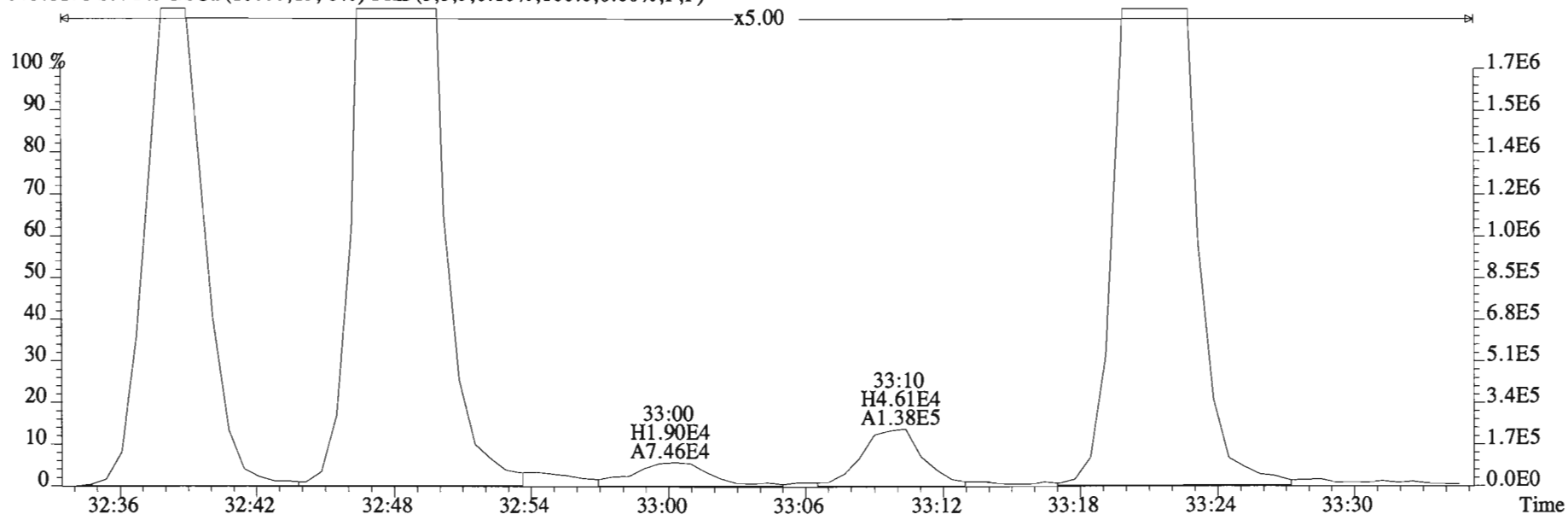
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



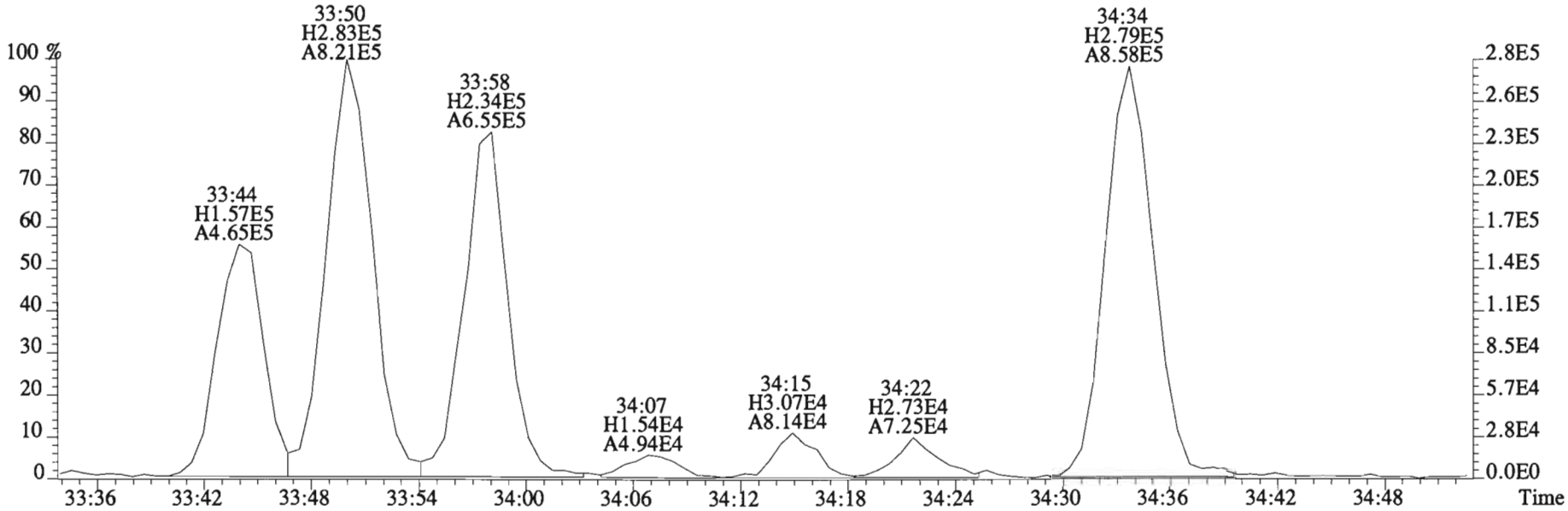
File:150203D1 #1-392 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



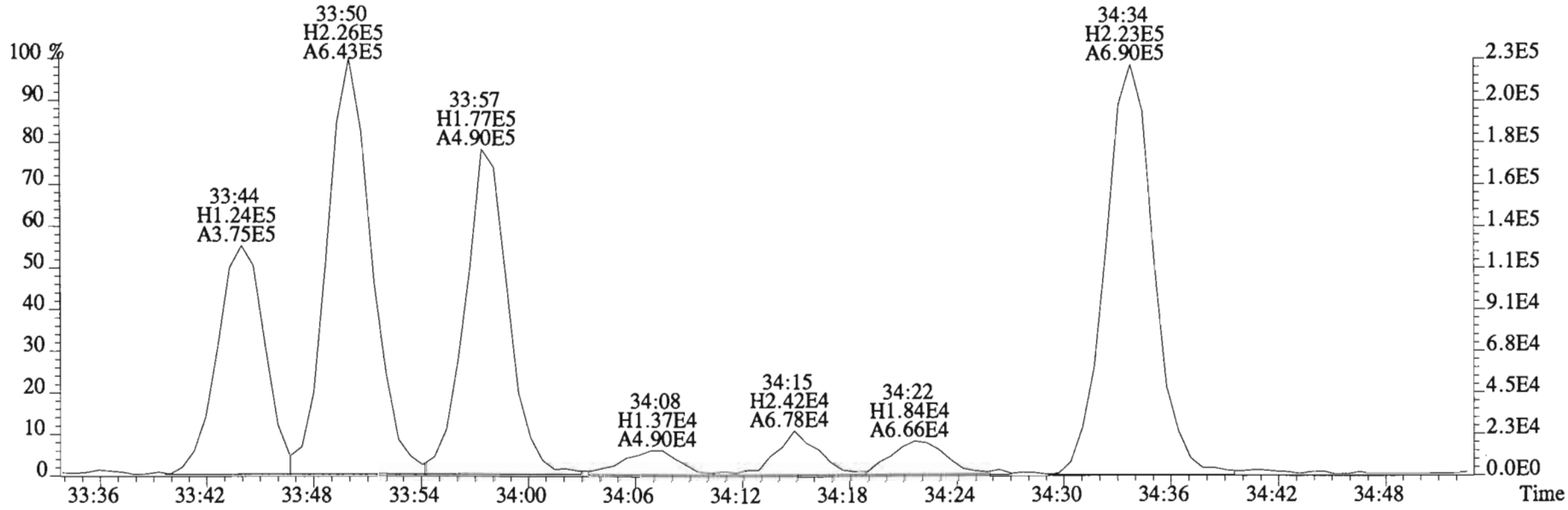
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



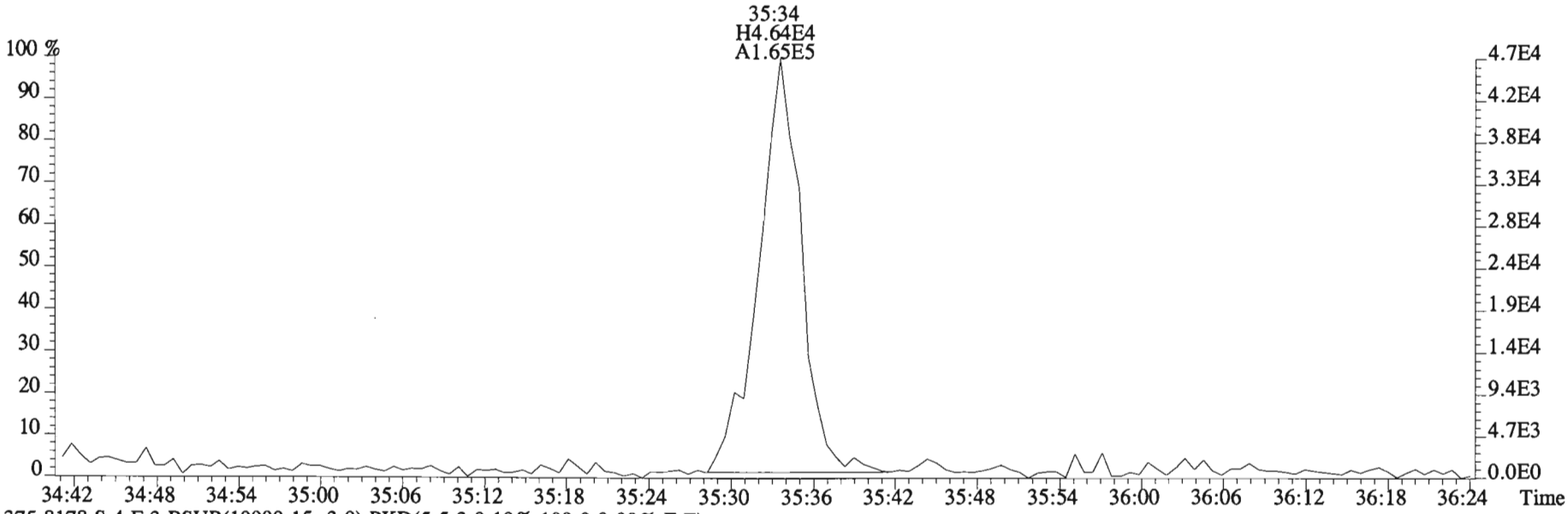
File:150203D1 #1-392 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



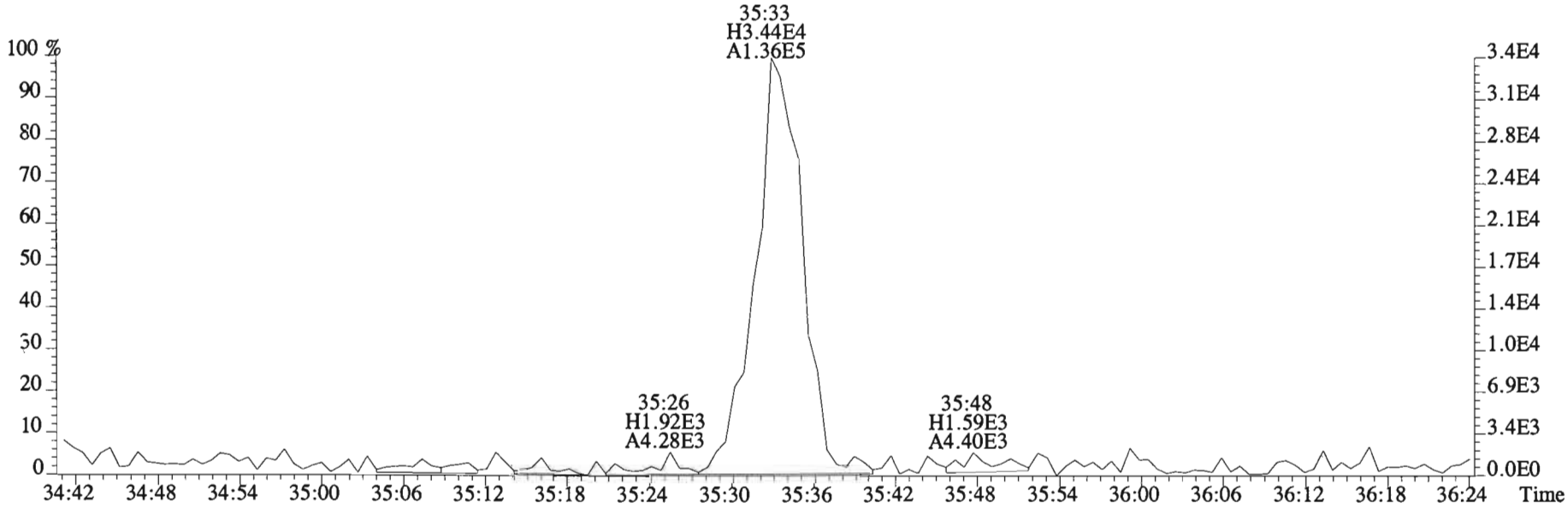
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



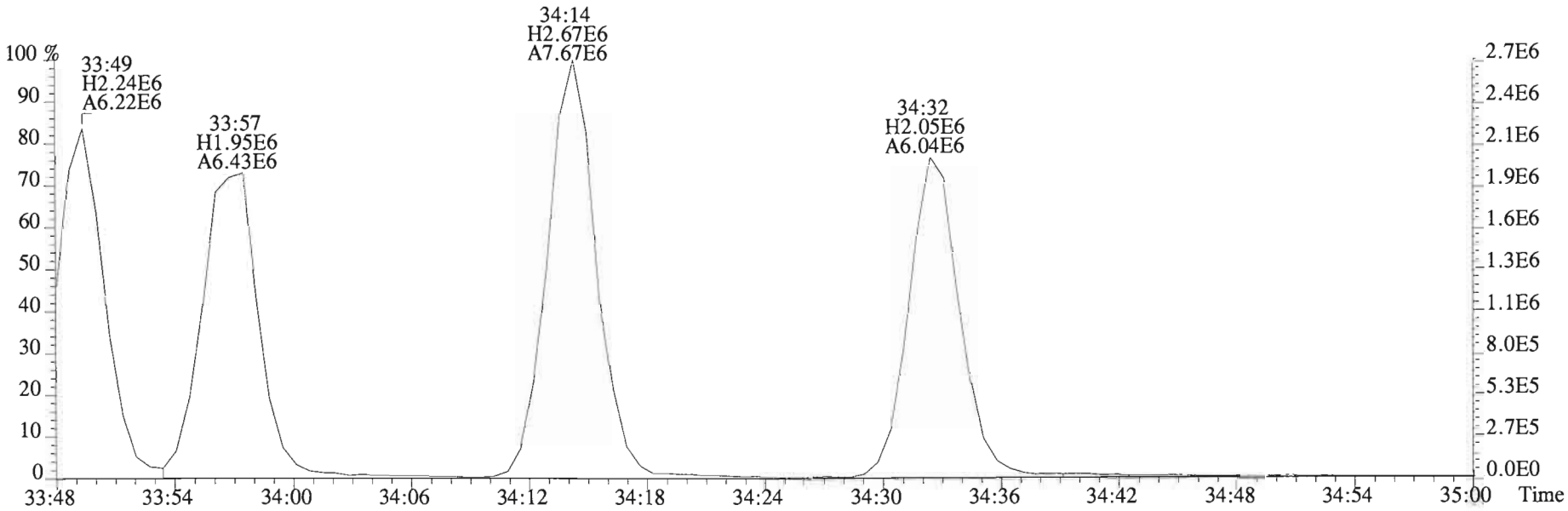
File:150203D1 #1-392 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



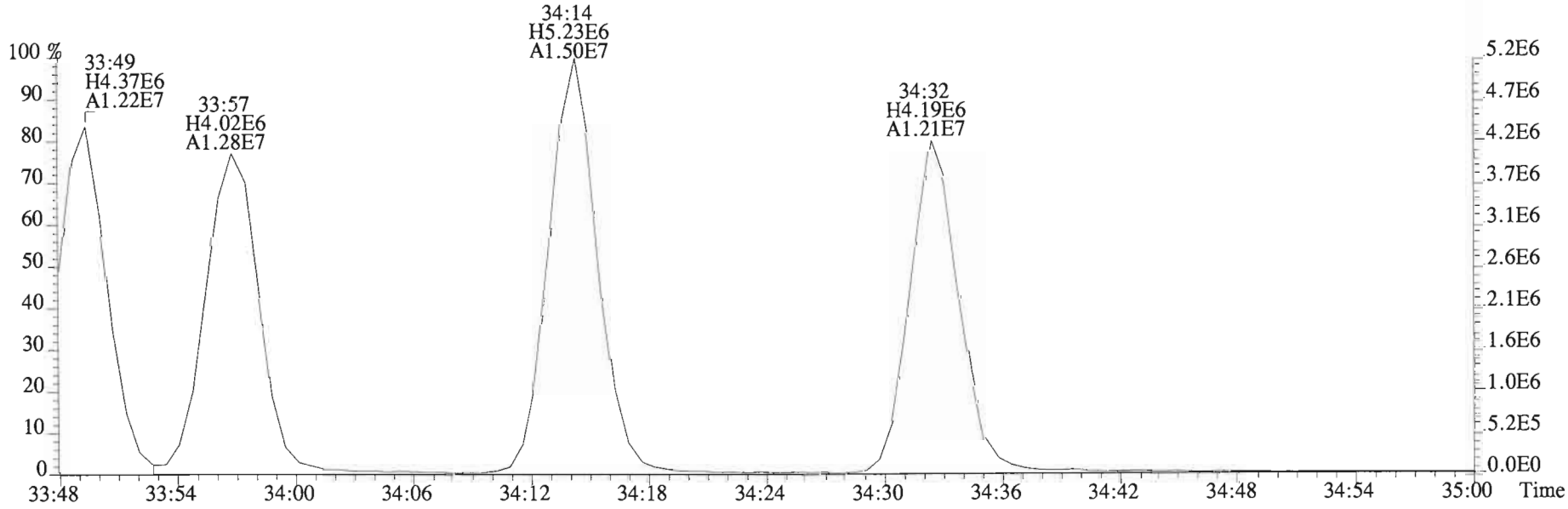
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



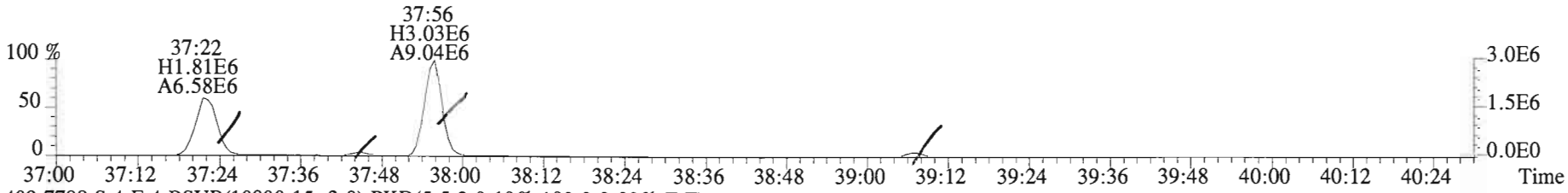
File:150203D1 #1-392 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02 AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



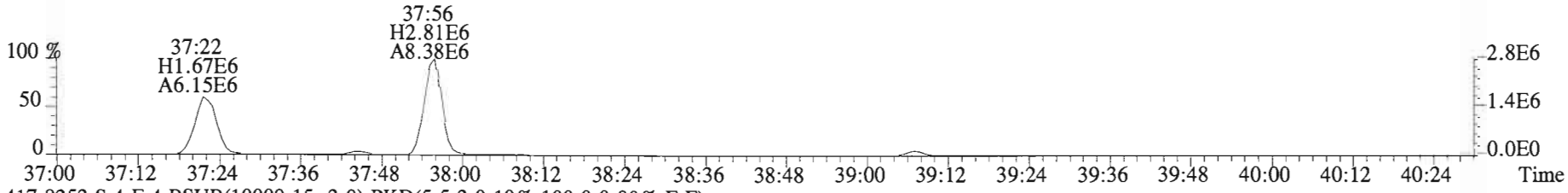
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



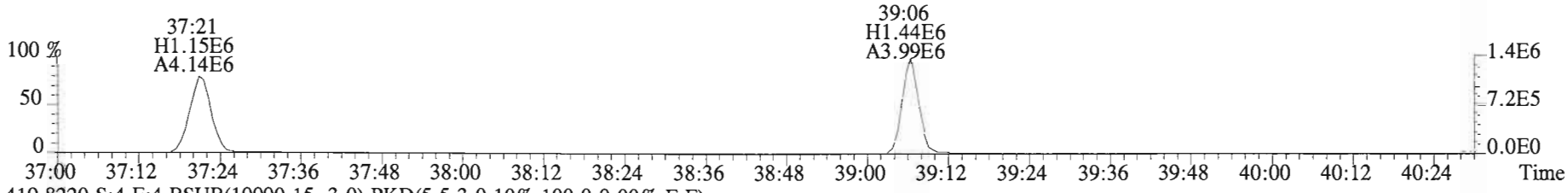
File:150203D1 #1-326 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02 AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



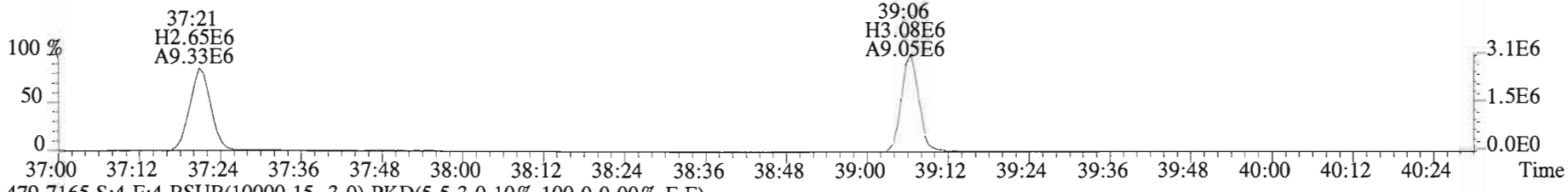
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



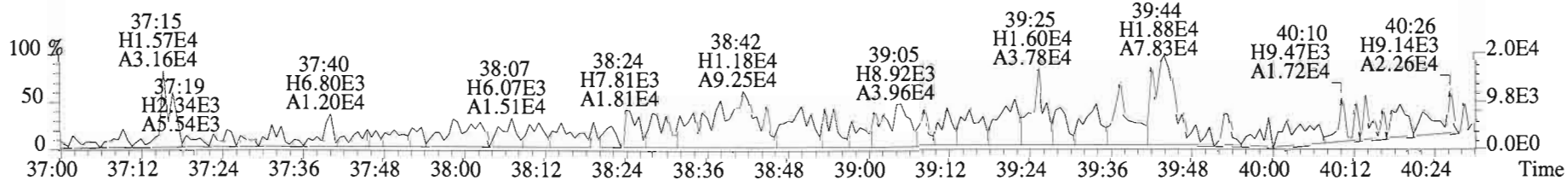
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



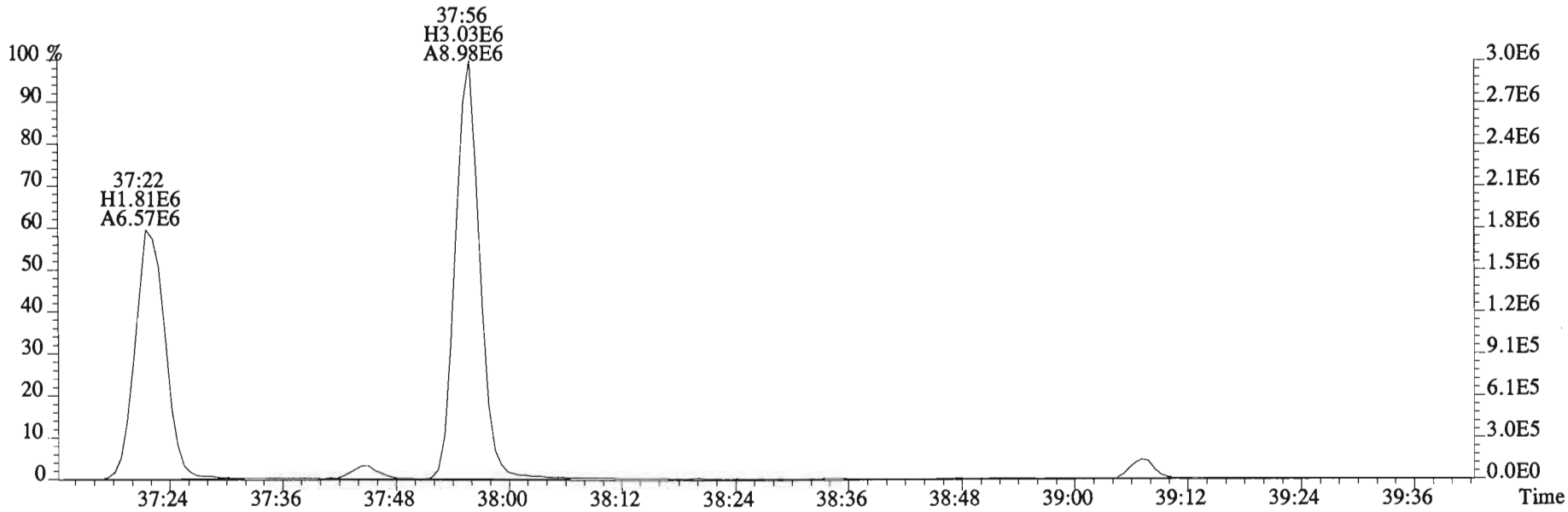
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



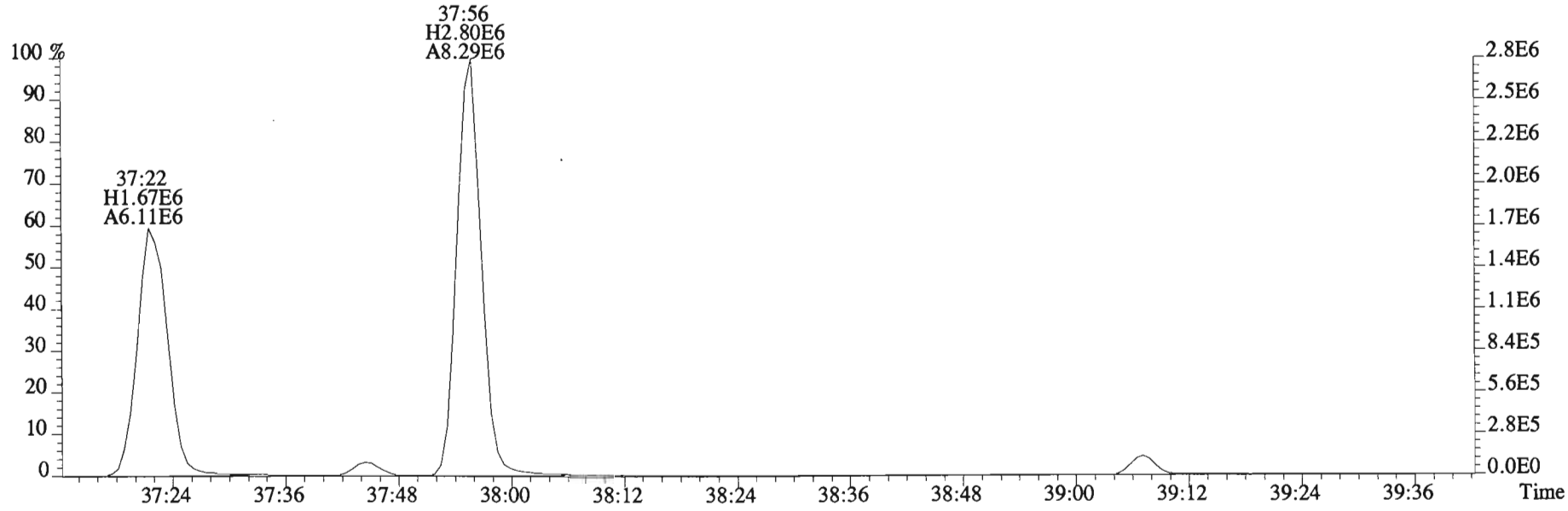
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



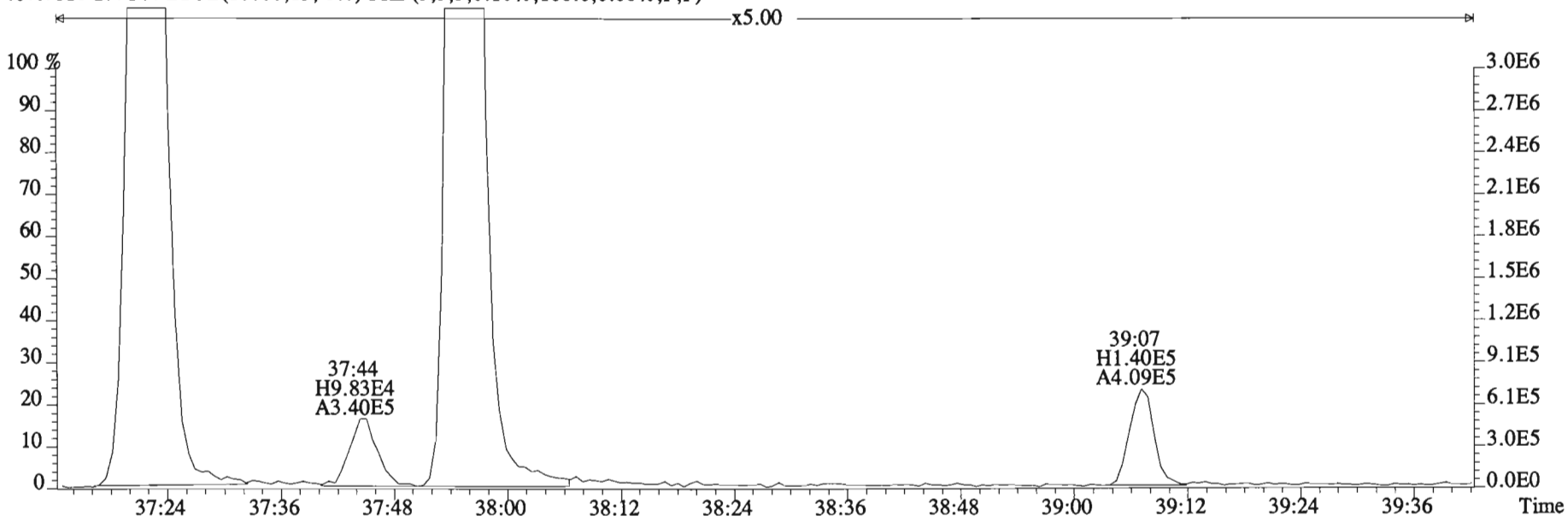
File:150203D1 #1-326 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



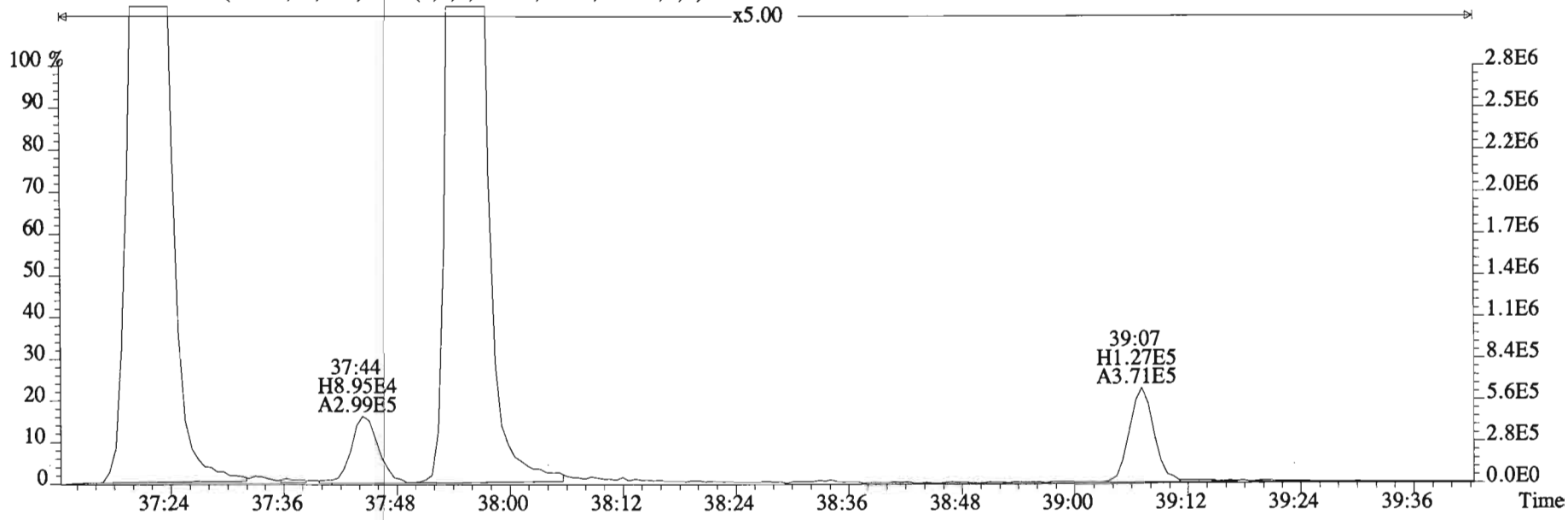
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:150203D1 #1-326 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02@20X AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

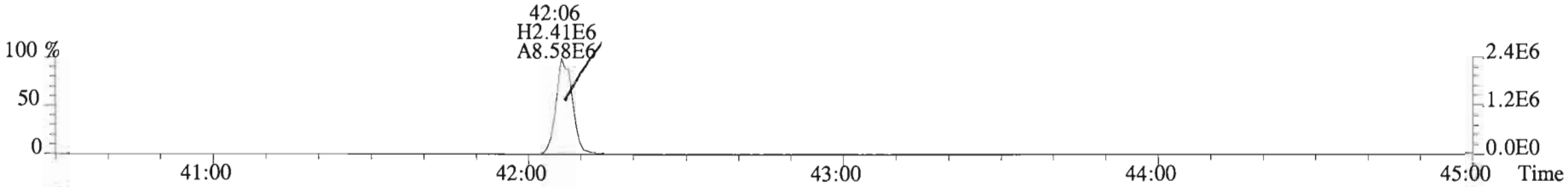


409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

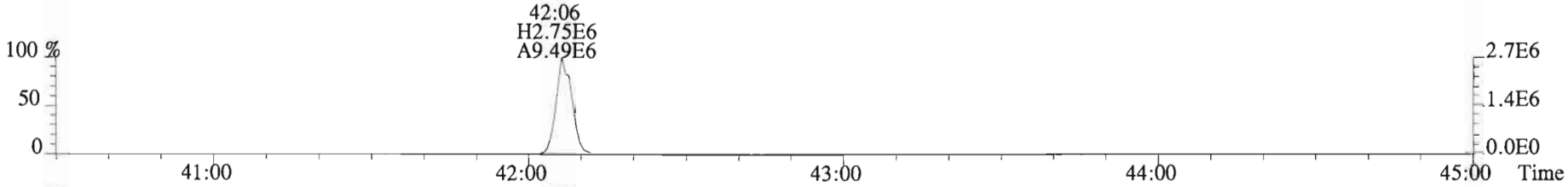


File:150203D1 #1-388 Acq: 3-FEB-2015 11:01:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500108-02 AS-CB-05-20150120-S 27.43 Exp:OCDD_DB5

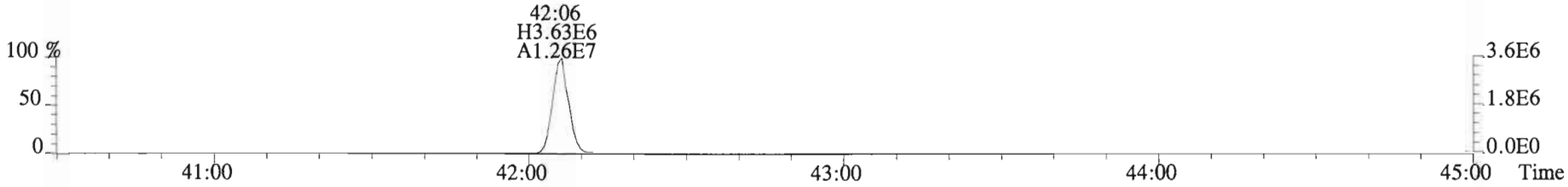
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



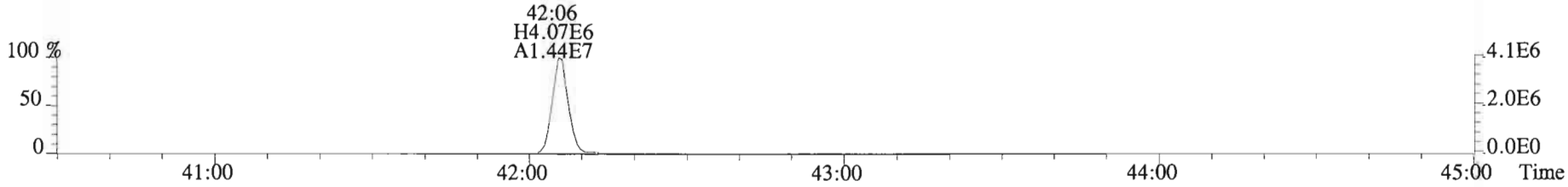
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



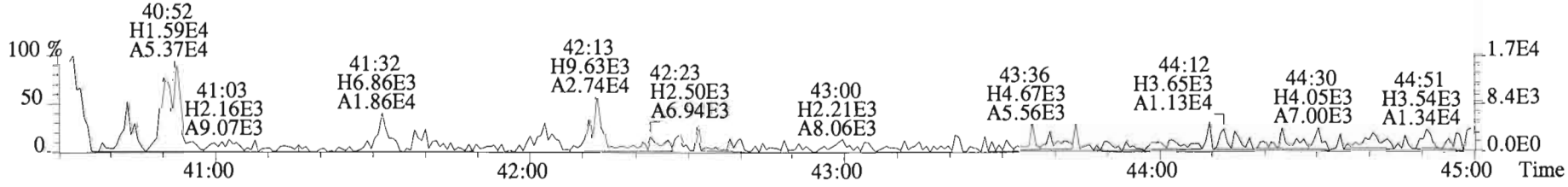
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Client ID: AS-CB-UNR-20150120-S Filename: 150203D1 S:5 Acq:3-FEB-15 11:49:35 ConCal: ST150203D1-1
Lab ID: 1500108-03 GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol:10.042 EndCAL: NA

	Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL
	2,3,7,8-TCDD	5.53e+04	0.70 y	1.17	26:58	0.47835			* 2.5	*
	1,2,3,7,8-PeCDD	2.34e+05	0.71 y	0.91	31:25	2.5921			* 2.5	*
	1,2,3,4,7,8-HxCDD	2.93e+05	1.20 y	1.08	34:43	3.8304			* 2.5	*
	1,2,3,6,7,8-HxCDD	9.16e+05	1.28 y	1.06	34:50	11.879			* 2.5	*
	1,2,3,7,8,9-HxCDD	5.99e+05	1.33 y	0.93	35:08	7.7349			* 2.5	*
	1,2,3,4,6,7,8-HpCDD	1.82e+07	1.02 y	1.10	38:34	235.40			* 2.5	*
	OCDD	1.30e+08	0.88 y	0.95	41:53	2271.7			* 2.5	*
	2,3,7,8-TCDF	6.79e+05	0.79 y	1.07	26:13	4.9108	4,52		* 2.5	*
	1,2,3,7,8-PeCDF	4.51e+05	1.71 y	1.07	30:16	3.0986			* 2.5	*
	2,3,4,7,8-PeCDF	6.21e+05	1.64 y	1.03	31:08	4.8834			* 2.5	*
	1,2,3,4,7,8-HxCDF	1.26e+06	1.35 y	1.38	33:50	9.5273			* 2.5	*
	1,2,3,6,7,8-HxCDF	7.66e+05	1.33 y	1.26	33:57	6.0193			* 2.5	*
	2,3,4,6,7,8-HxCDF	1.12e+06	1.22 y	1.29	34:34	9.7060			* 2.5	*
	1,2,3,7,8,9-HxCDF	2.10e+05	1.29 y	1.19	35:34	2.1745			* 2.5	*
	1,2,3,4,6,7,8-HpCDF	7.99e+06	1.08 y	1.61	37:22	72.817			* 2.5	*
	1,2,3,4,7,8,9-HpCDF	5.07e+05	1.09 y	1.53	39:07	5.0428			* 2.5	*
	OCDF	1.37e+07	0.94 y	1.10	42:07	189.21			* 2.5	*
IS	13C-2,3,7,8-TCDD	1.96e+07	0.79 y	1.06	26:57	179.37				
IS	13C-1,2,3,7,8-PeCDD	1.98e+07	0.61 y	1.18	31:24	162.72				
IS	13C-1,2,3,4,7,8-HxCDD	1.41e+07	1.26 y	0.72	34:43	173.26				
IS	13C-1,2,3,6,7,8-HxCDD	1.44e+07	1.24 y	0.74	34:50	172.86				
IS	13C-1,2,3,7,8,9-HxCDD	1.66e+07	1.26 y	0.85	35:07	171.34				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.39e+07	1.07 y	0.65	38:33	188.29				
IS	13C-OCDD	2.41e+07	0.88 y	0.76	41:52	277.85				
IS	13C-2,3,7,8-TCDF	2.57e+07	0.74 y	0.92	26:12	176.63				
IS	13C-1,2,3,7,8-PeCDF	2.69e+07	1.56 y	0.92	30:15	184.57				
IS	13C-2,3,4,7,8-PeCDF	2.45e+07	1.61 y	0.93	31:08	166.14				
IS	13C-1,2,3,4,7,8-HxCDF	1.90e+07	0.51 y	0.98	33:49	170.54				
IS	13C-1,2,3,6,7,8-HxCDF	2.02e+07	0.52 y	1.08	33:57	164.17				
IS	13C-2,3,4,6,7,8-HxCDF	1.79e+07	0.51 y	1.03	34:33	153.67				
IS	13C-1,2,3,7,8,9-HxCDF	1.62e+07	0.50 y	0.86	35:31	166.43				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.36e+07	0.43 y	0.72	37:21	165.65				
IS	13C-1,2,3,4,7,8,9-HpCDF	1.31e+07	0.45 y	0.70	39:07	166.13				
IS	13C-OCDF	2.63e+07	0.89 y	0.85	42:06	273.03				
C/Up	37Cl-2,3,7,8-TCDD	8.69e+06		1.12	26:58	75.291				
RS/RT	13C-1,2,3,4-TCDD	2.06e+07	0.80 y	1.00	26:24	199.16				
RS	13C-1,2,3,4-TCDF	3.16e+07	0.76 y	1.00	25:00	199.16				
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.26e+07	0.51 y	1.00	34:14	199.16				

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	22.5	23.5		*	*
Total Penta-Dioxins	35.4	35.4		*	*
Total Hexa-Dioxins	105	105		*	*
Total Hepta-Dioxins	505	505		*	*
Total Tetra-Furans	103	103		*	*
Total Penta-Furans	181.42	181.42		*	*
Total Hexa-Furans	164	164		*	*
Total Hepta-Furans	230	230		*	*

	Rec	Qual
IS	90.1	
IS	81.7	
IS	87.0	
IS	86.8	
IS	86.0	
IS	94.5	
IS	69.8	
IS	88.7	
IS	92.7	
IS	83.4	
IS	85.6	
IS	82.4	
IS	77.2	
IS	83.6	
IS	83.2	
IS	83.4	
IS	68.5	
C/Up	94.5	

Integrations by Analyst: DMJ Date: 2/4/15

Reviewed by Analyst: [illegible] Date: 2/5/15

Totals class: TCDD EMPC Entry #: 19

Run: 10 File: 150203D1 S: 5 I: 1 F: 1
Acquired: 3-FEB-15 11:49:35 Processed: 4-FEB-15 07:54:12

Total Concentration: 23.546 Unnamed Concentration: 23.067

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
23:38	4.486e+05	5.951e+05	0.75	y	1.044e+06	9.0316	
24:00	2.481e+05	3.313e+05	0.75	y	5.794e+05	5.0137	
24:23	2.503e+04	3.763e+04	0.67	y	6.266e+04	0.54227	
25:07	1.558e+04	1.595e+04	0.98	n	2.823e+04	0.24433	
25:20	8.078e+04	1.003e+05	0.81	y	1.811e+05	1.5674	
25:30	8.510e+04	1.281e+05	0.66	y	2.132e+05	1.8450	
25:42	2.503e+04	3.463e+04	0.72	y	5.966e+04	0.51627	
25:54	8.696e+03	1.055e+04	0.82	y	1.925e+04	0.16655	
26:04	2.896e+04	4.624e+04	0.63	n	6.657e+04	0.57610	
26:25	6.185e+04	7.818e+04	0.79	y	1.400e+05	1.2118	
26:43	7.364e+04	1.083e+05	0.68	y	1.819e+05	1.5741	
26:51	1.458e+04	1.474e+04	0.99	n	2.609e+04	0.22580	
26:58	2.279e+04	3.249e+04	0.70	y	5.528e+04	0.47835	2,3,7,8-TCDD
27:15	2.065e+04	3.146e+04	0.66	y	5.210e+04	0.45090	
27:23	4.898e+03	6.828e+03	0.72	y	1.173e+04	0.10147	

Totals class: PeCDD EMPC Entry #: 21

Run: 10 File: 150203D1 S: 5 I: 1 F: 2
Acquired: 3-FEB-15 11:49:35 Processed: 4-FEB-15 07:54:12

Total Concentration: 35.421 Unnamed Concentration: 32.829

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
29:23	2.987e+05	4.800e+05	0.62	y	7.787e+05	8.6209	
29:49	5.060e+04	7.464e+04	0.68	y	1.252e+05	1.3865	
30:17	2.656e+05	4.555e+05	0.58	y	7.211e+05	7.9830	
30:25	9.129e+04	1.411e+05	0.65	y	2.324e+05	2.5728	
30:31	1.800e+05	2.985e+05	0.60	y	4.785e+05	5.2979	
30:43	8.384e+04	1.315e+05	0.64	y	2.153e+05	2.3836	
31:01	1.124e+05	1.579e+05	0.71	y	2.703e+05	2.9922	
31:25	9.727e+04	1.369e+05	0.71	y	2.341e+05	2.5921	1,2,3,7,8-PeCDD
31:29	2.358e+04	4.075e+04	0.58	y	6.433e+04	0.71224	
31:46	2.810e+04	5.140e+04	0.55	y	7.951e+04	0.88021	

Totals class: HxCDD EMPC Entry #: 23

Run: 10 File: 150203D1 S: 5 I: 1 F: 3
Acquired: 3-FEB-15 11:49:35 Processed: 4-FEB-15 07:54:12

Total Concentration: 104.58 Unnamed Concentration: 81.138

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
33:10	9.044e+05	7.267e+05	1.24	y	1.631e+06	21.177	
33:45	8.418e+05	6.738e+05	1.25	y	1.516e+06	19.676	
34:01	1.554e+06	1.234e+06	1.26	y	2.789e+06	36.204	
34:08	9.190e+04	7.133e+04	1.29	y	1.632e+05	2.1191	
34:43	1.602e+05	1.331e+05	1.20	y	2.933e+05	3.8304	1,2,3,4,7,8-HxCDD
34:50	5.142e+05	4.019e+05	1.28	y	9.160e+05	11.879	1,2,3,6,7,8-HxCDD
35:02	8.135e+04	6.974e+04	1.17	y	1.511e+05	1.9615	
35:08	3.423e+05	2.570e+05	1.33	y	5.993e+05	7.7349	1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC Entry #: 25

Run: 10 File: 150203D1 S: 5 I: 1 F: 4
Acquired: 3-FEB-15 11:49:35 Processed: 4-FEB-15 07:54:12

Total Concentration: 505.05 Unnamed Concentration: 269.648

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
37:44	1.062e+07	1.024e+07	1.04 y	2.086e+07	269.65	
38:34	9.216e+06	8.997e+06	1.02 y	1.821e+07	235.40	1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC Entry #: 27

Run: 10 File: 150203D1 S: 5 I: 1 F: 1
Acquired: 3-FEB-15 11:49:35 Processed: 4-FEB-15 07:54:12

Total Concentration: 103.44 Unnamed Concentration: 98.531

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
21:33	9.639e+04	1.268e+05	0.76	y	2.232e+05	1.6154	
22:08	2.581e+05	3.309e+05	0.78	y	5.890e+05	4.2629	
22:45	1.302e+06	1.658e+06	0.79	y	2.960e+06	21.422	
23:15	5.443e+05	6.933e+05	0.79	y	1.238e+06	8.9568	
23:37	5.221e+05	6.557e+05	0.80	y	1.178e+06	8.5241	
24:02	6.433e+05	8.489e+05	0.76	y	1.492e+06	10.799	
24:09	1.297e+05	1.667e+05	0.78	y	2.964e+05	2.1449	
24:39	8.045e+04	1.036e+05	0.78	y	1.840e+05	1.3317	
24:46	1.587e+05	2.176e+05	0.73	y	3.763e+05	2.7231	
24:54	7.833e+05	9.940e+05	0.79	y	1.777e+06	12.862	
25:02	2.159e+05	3.020e+05	0.72	y	5.179e+05	3.7479	
25:25	2.215e+05	2.950e+05	0.75	y	5.166e+05	3.7387	
25:40	1.266e+05	1.757e+05	0.72	y	3.023e+05	2.1880	
25:50	9.173e+04	1.162e+05	0.79	y	2.079e+05	1.5049	
26:01	1.409e+05	1.709e+05	0.92	y	3.119e+05	2.2571	
26:07	1.007e+05	1.281e+05	0.79	y	2.288e+05	1.6558	
26:13	3.005e+05	3.780e+05	0.79	y	6.785e+05	4.9108	2,3,7,8-TCDF
26:32	3.979e+05	5.087e+05	0.78	y	9.066e+05	6.5614	
26:45	2.963e+04	4.264e+04	0.70	y	7.227e+04	0.52304	
27:30	2.271e+04	2.469e+04	0.92	n	4.370e+04	0.31630	
27:40	2.946e+04	2.872e+04	1.03	n	5.083e+04	0.36789	
27:57	6.454e+04	7.743e+04	0.83	y	1.420e+05	1.0275	

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 10 File: 150203D1 S: 5 I: 1 F: 1
Acquired: 3-FEB-15 11:49:35 Processed: 4-FEB-15 07:54:12

Total Concentration: 92.957 Unnamed Concentration: 92.957

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
27:56	7.636e+06	5.016e+06	1.52 y	1.265e+07	92.957	

Totals class: PeCDF EMPC Entry #: 31

Run: 10 File: 150203D1 S: 5 I: 1 F: 2
Acquired: 3-FEB-15 11:49:35 Processed: 4-FEB-15 07:54:12

Total Concentration: 88.466 Unnamed Concentration: 80.484

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
29:14	4.790e+05	2.950e+05	1.62	y	7.740e+05	5.6866	
29:21	3.216e+06	2.010e+06	1.60	y	5.226e+06	38.400	
29:42	8.250e+04	5.507e+04	1.50	y	1.376e+05	1.0107	
29:53	1.183e+06	7.765e+05	1.52	y	1.960e+06	14.400	
30:06	1.150e+05	8.219e+04	1.40	y	1.972e+05	1.4491	
30:16	2.846e+05	1.660e+05	1.71	y	4.506e+05	3.0986	1,2,3,7,8-PeCDF
30:30	5.290e+05	3.337e+05	1.59	y	8.627e+05	6.3387	
30:57	2.881e+04	1.617e+04	1.78	y	4.498e+04	0.33049	
31:03	2.499e+05	1.605e+05	1.56	y	4.104e+05	3.0155	
31:08	3.855e+05	2.351e+05	1.64	y	6.206e+05	4.8834	2,3,4,7,8-PeCDF
31:10	7.506e+05	4.931e+05	1.52	y	1.244e+06	9.1380	
31:25	2.486e+04	1.879e+04	1.32	y	4.365e+04	0.32072	
32:01	3.175e+04	2.194e+04	1.45	y	5.369e+04	0.39445	

Totals class: HxCDF EMPC Entry #: 33

Run: 10 File: 150203D1 S: 5 I: 1 F: 3
Acquired: 3-FEB-15 11:49:35 Processed: 4-FEB-15 07:54:12

Total Concentration: 164.16 Unnamed Concentration: 136.737

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
32:39	9.949e+05	7.658e+05	1.30 y	1.761e+06	14.949	
32:48	4.208e+06	3.223e+06	1.31 y	7.430e+06	63.083	
33:10	1.051e+05	7.744e+04	1.36 y	1.826e+05	1.5502	
33:21	3.560e+06	2.685e+06	1.33 y	6.245e+06	53.023	
33:44	2.367e+05	1.744e+05	1.36 y	4.111e+05	3.4900	
33:50	7.221e+05	5.335e+05	1.35 y	1.256e+06	9.5273	1,2,3,4,7,8-HxCDF
33:57	4.365e+05	3.293e+05	1.33 y	7.658e+05	6.0193	1,2,3,6,7,8-HxCDF
34:15	4.238e+04	3.328e+04	1.27 y	7.567e+04	0.64242	
34:34	6.172e+05	5.057e+05	1.22 y	1.123e+06	9.7060	2,3,4,6,7,8-HxCDF
35:34	1.184e+05	9.176e+04	1.29 y	2.102e+05	2.1745	1,2,3,7,8,9-HxCDF

Totals class: HpCDF EMPC Entry #: 35

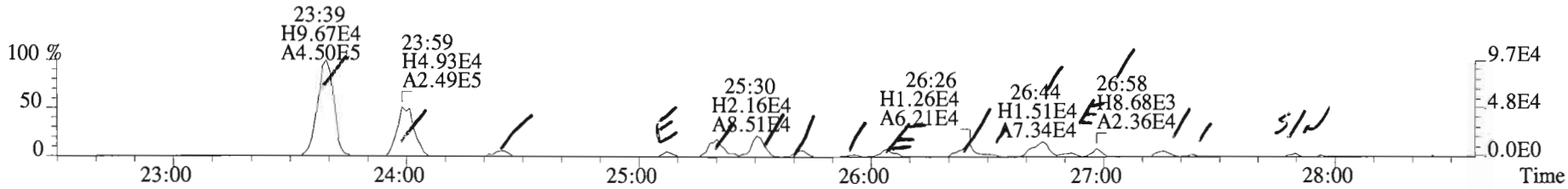
Run: 10 File: 150203D1 S: 5 I: 1 F: 4
Acquired: 3-FEB-15 11:49:35 Processed: 4-FEB-15 07:54:12

Total Concentration: 229.85 Unnamed Concentration: 151.994

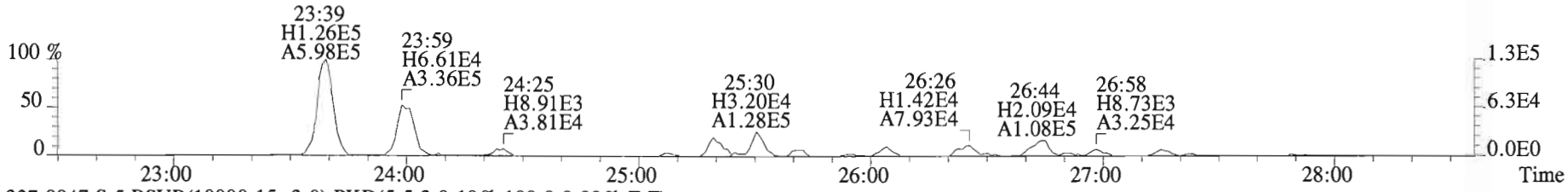
RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
37:22	4.145e+06	3.842e+06	1.08 y	7.987e+06	72.817	1,2,3,4,6,7,8-HpCDF
37:44	1.429e+05	1.305e+05	1.10 y	2.735e+05	2.6016	
37:56	8.224e+06	7.479e+06	1.10 y	1.570e+07	149.39	
39:07	2.648e+05	2.424e+05	1.09 y	5.072e+05	5.0428	1,2,3,4,7,8,9-HpCDF

File:150203D1 #1-551 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03 AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5

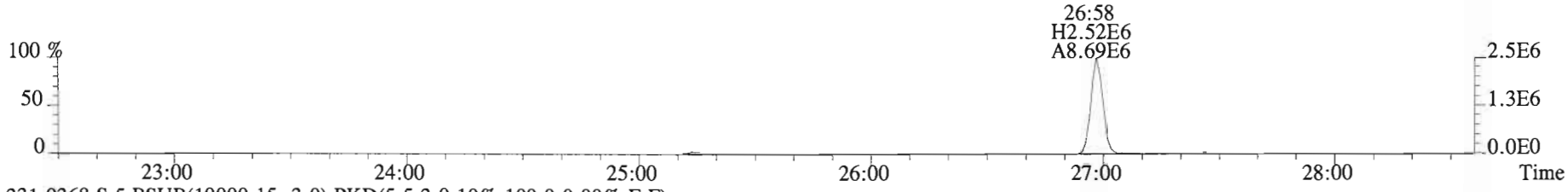
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



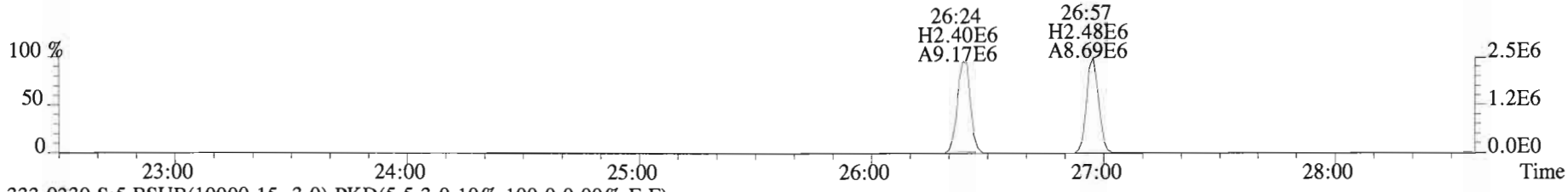
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



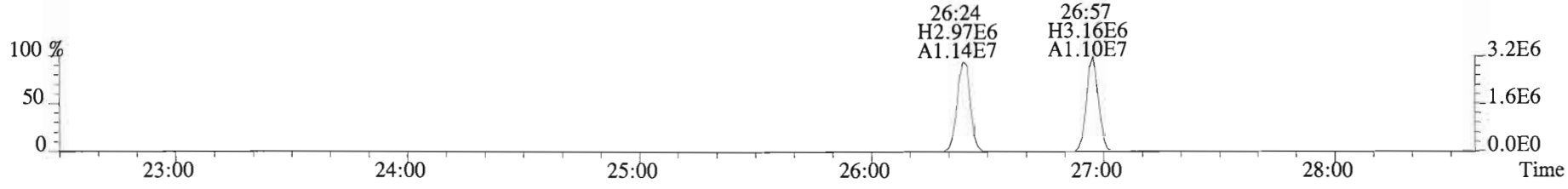
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



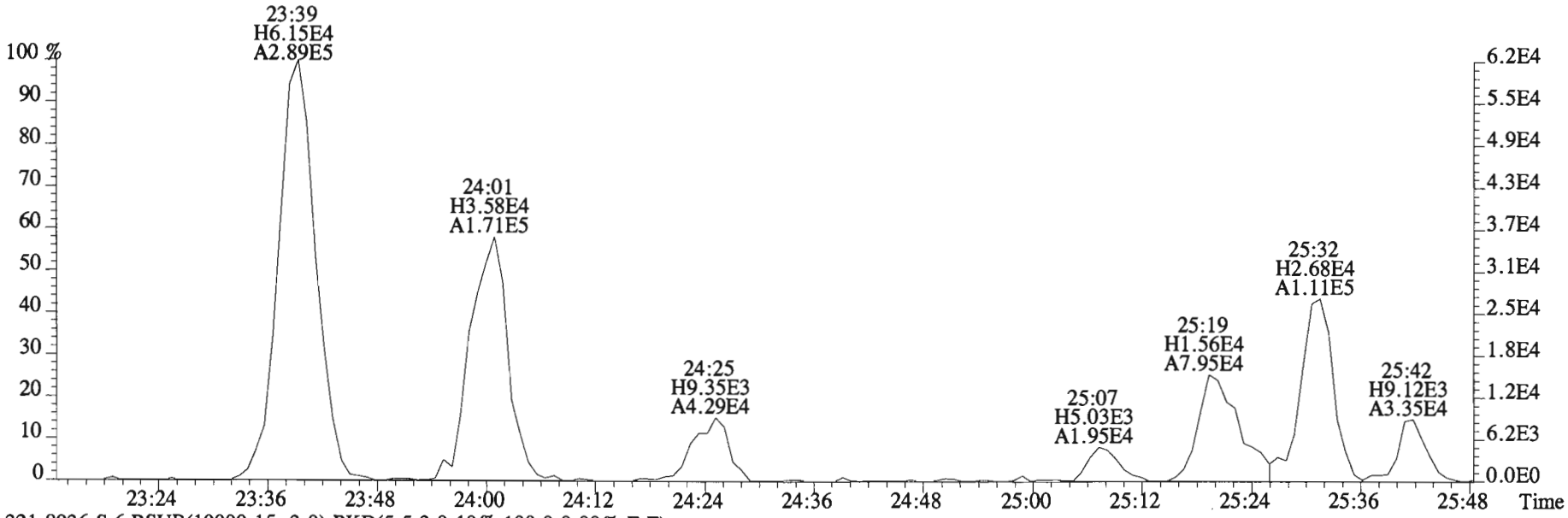
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



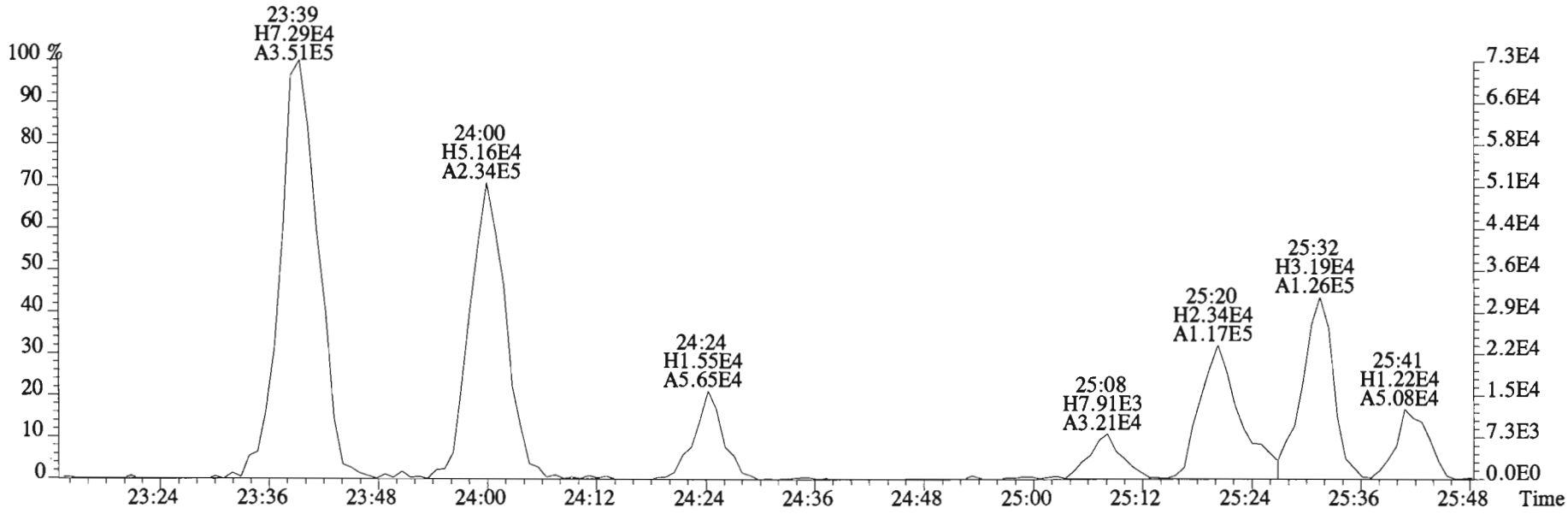
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



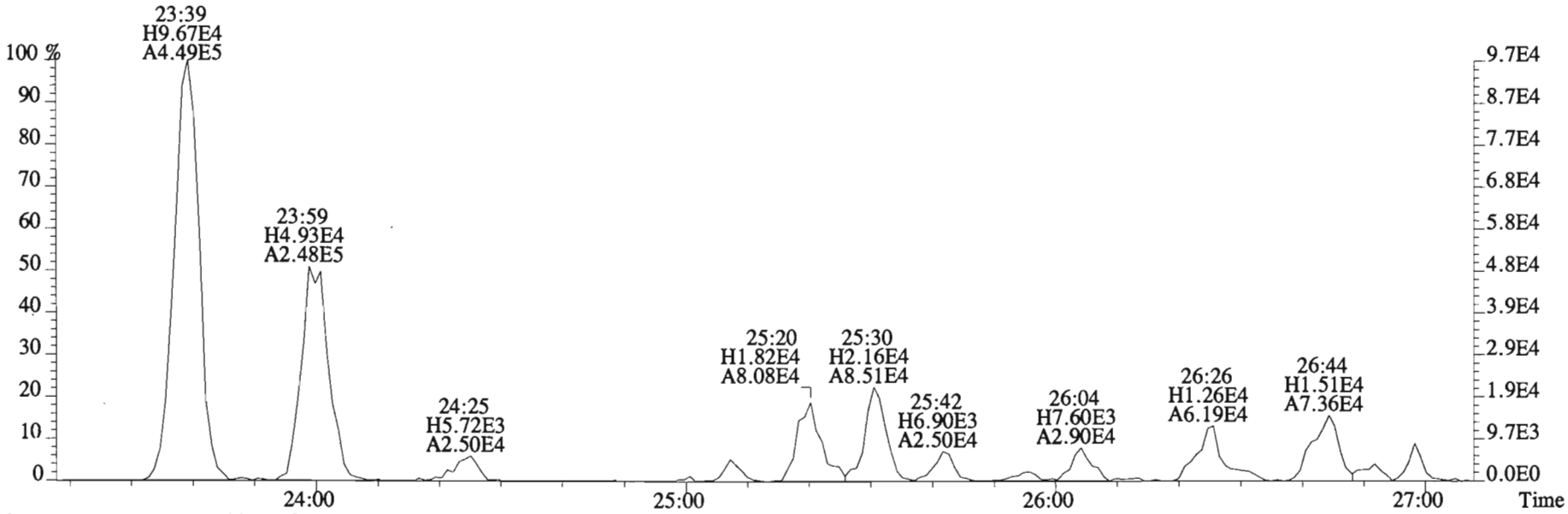
File:150203D1 #1-551 Acq: 3-FEB-2015 12:37:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-7 Text:1500116-01@20X WM-CB-03-20150122-S 34.48 Exp:OCDD_DB5
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



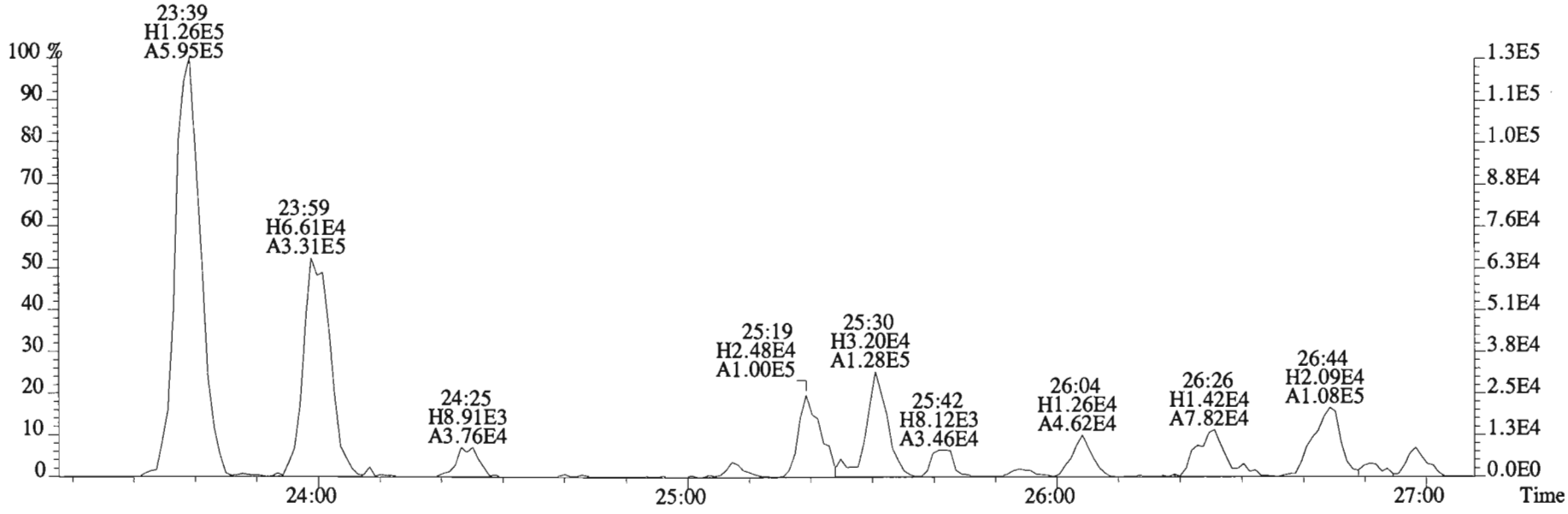
321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



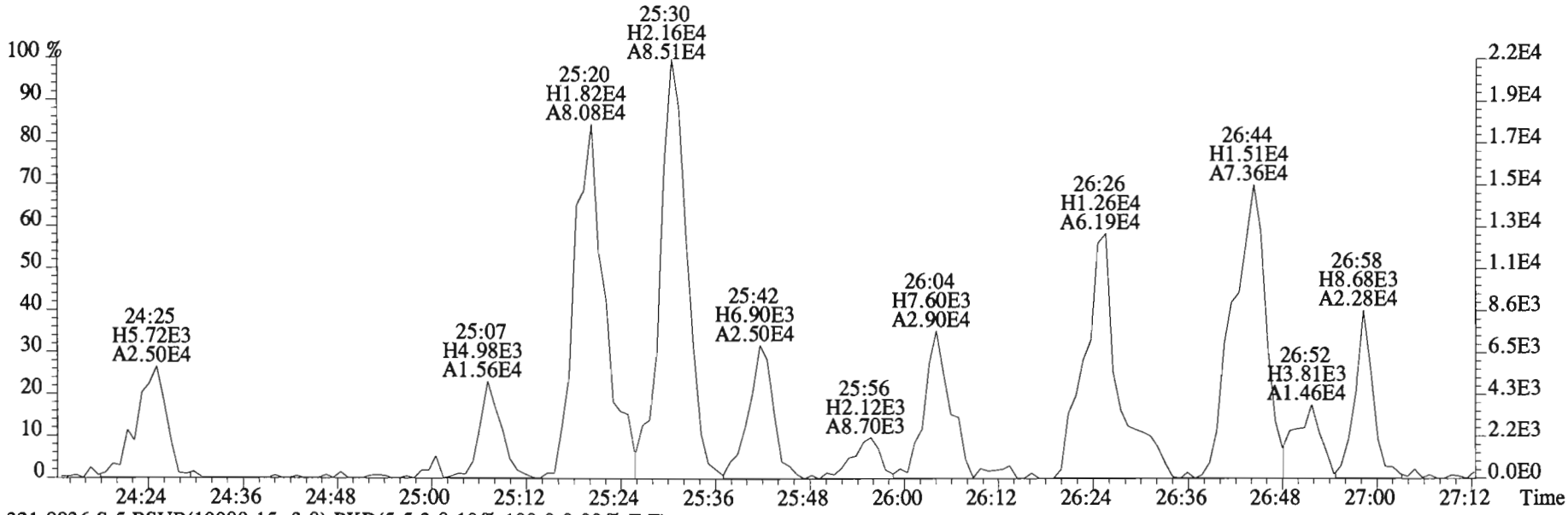
File:150203D1 #1-551 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03@20X AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



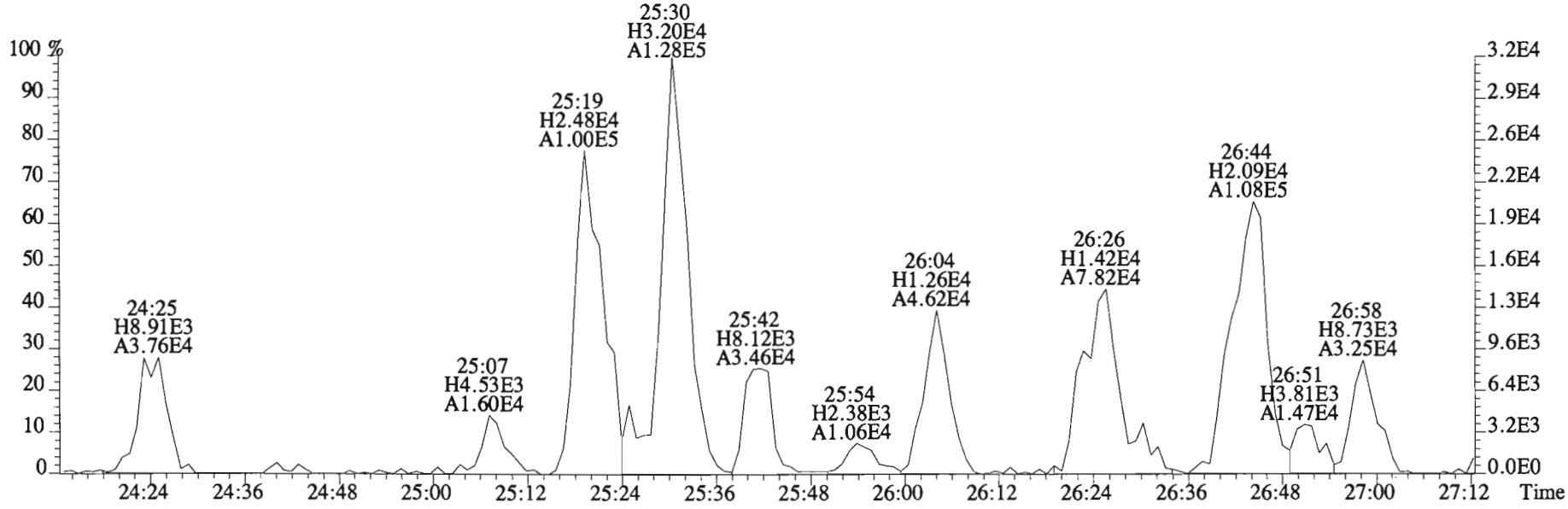
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



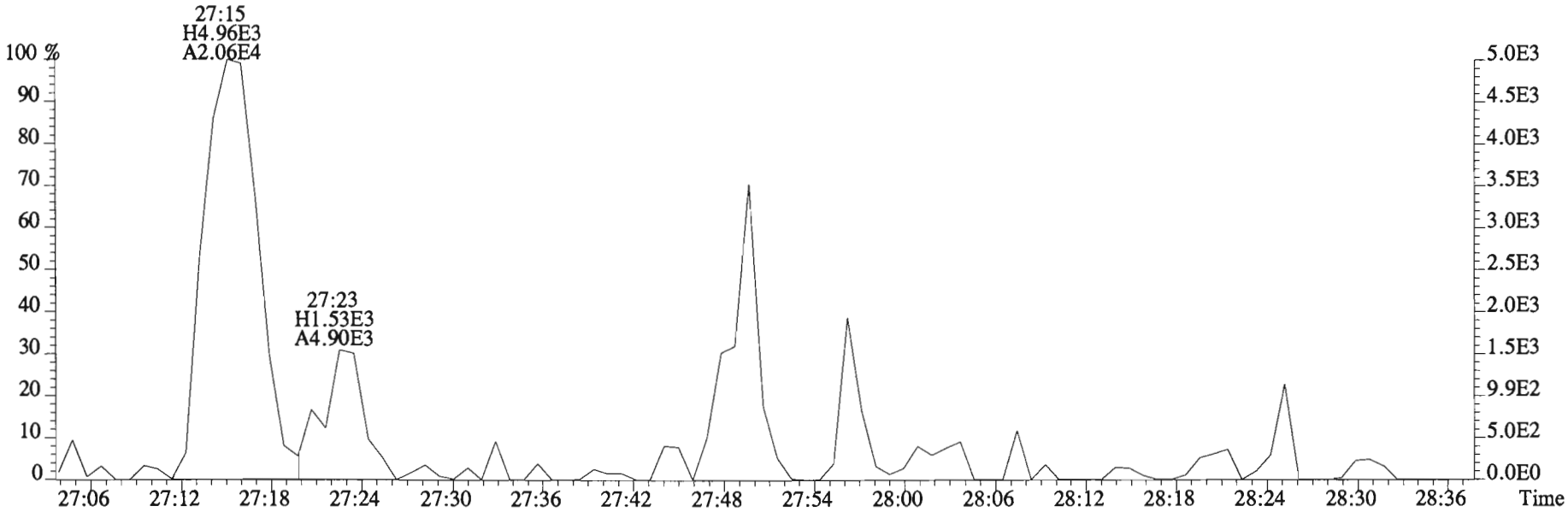
File:150203D1 #1-551 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03@20X AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



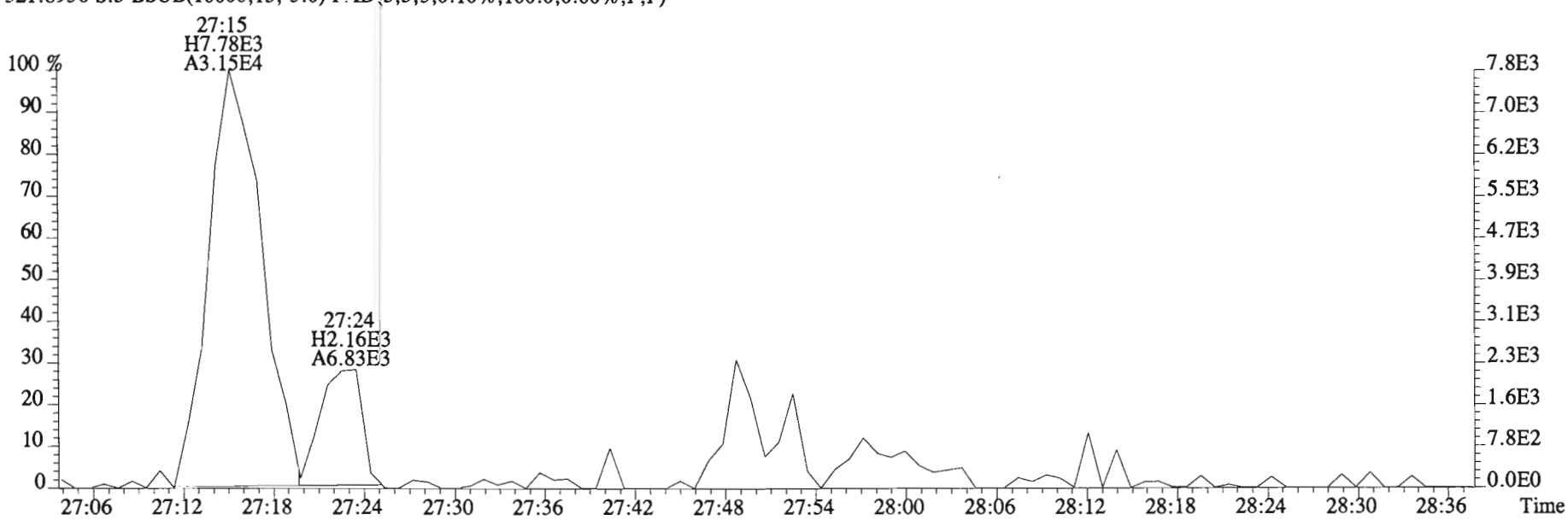
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



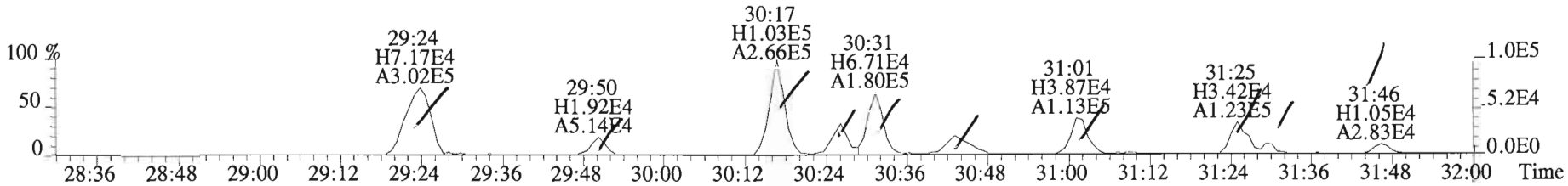
File:150203D1 #1-551 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03@20X AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



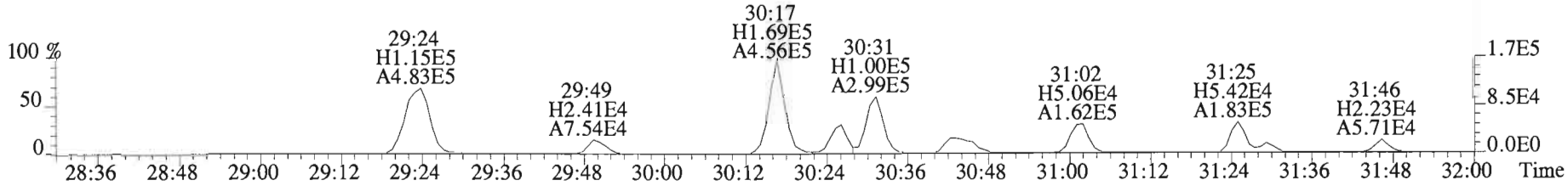
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



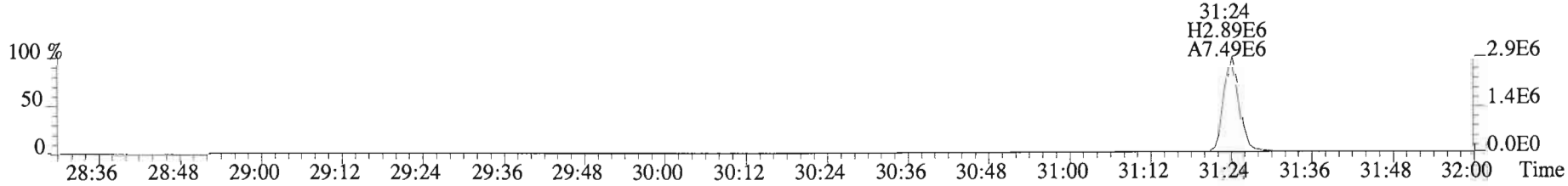
File:150203D1 #1-251 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03 AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



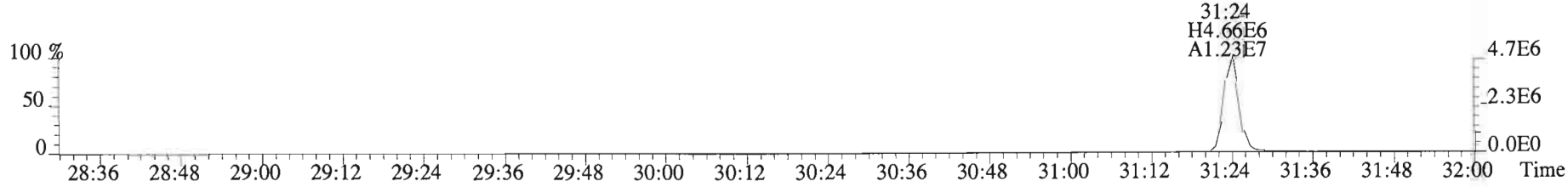
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



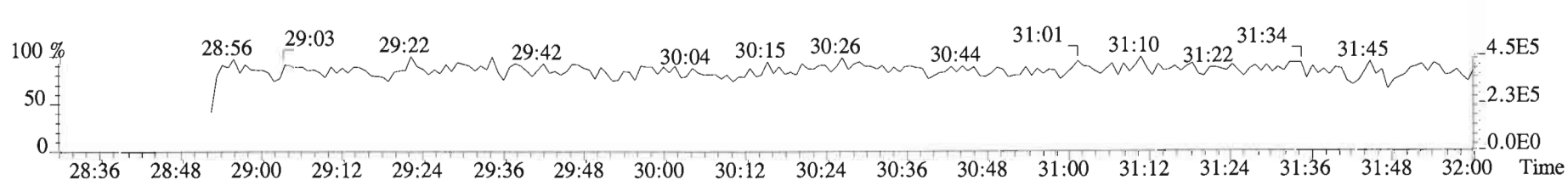
365.8978 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



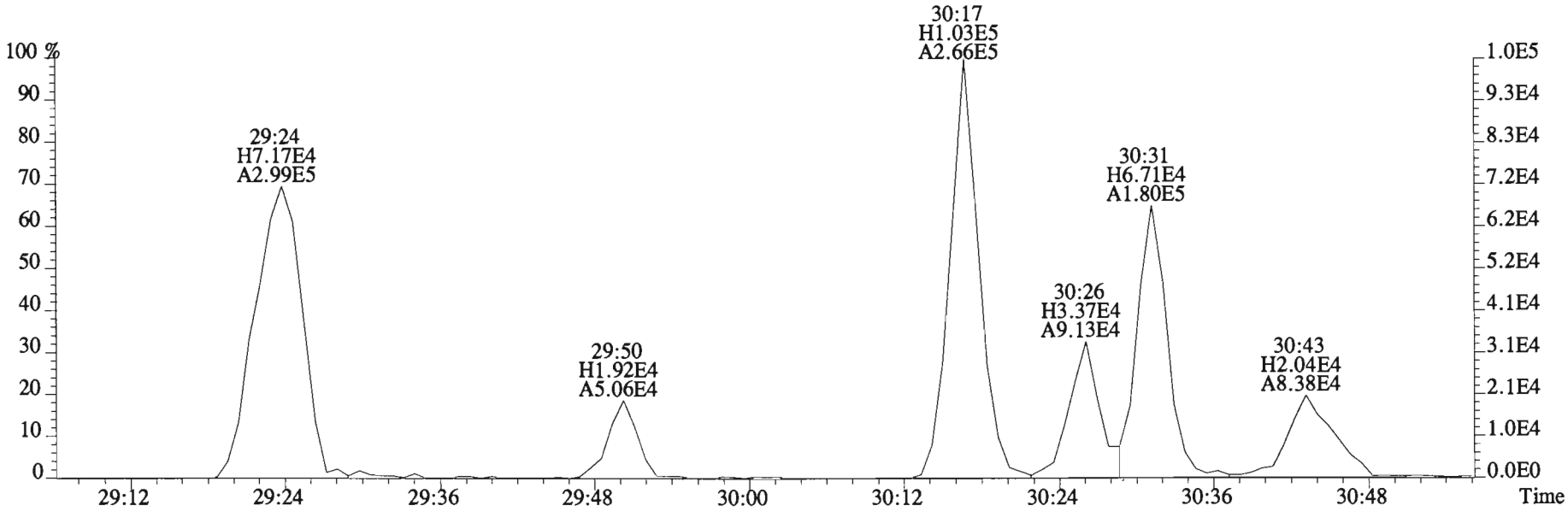
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



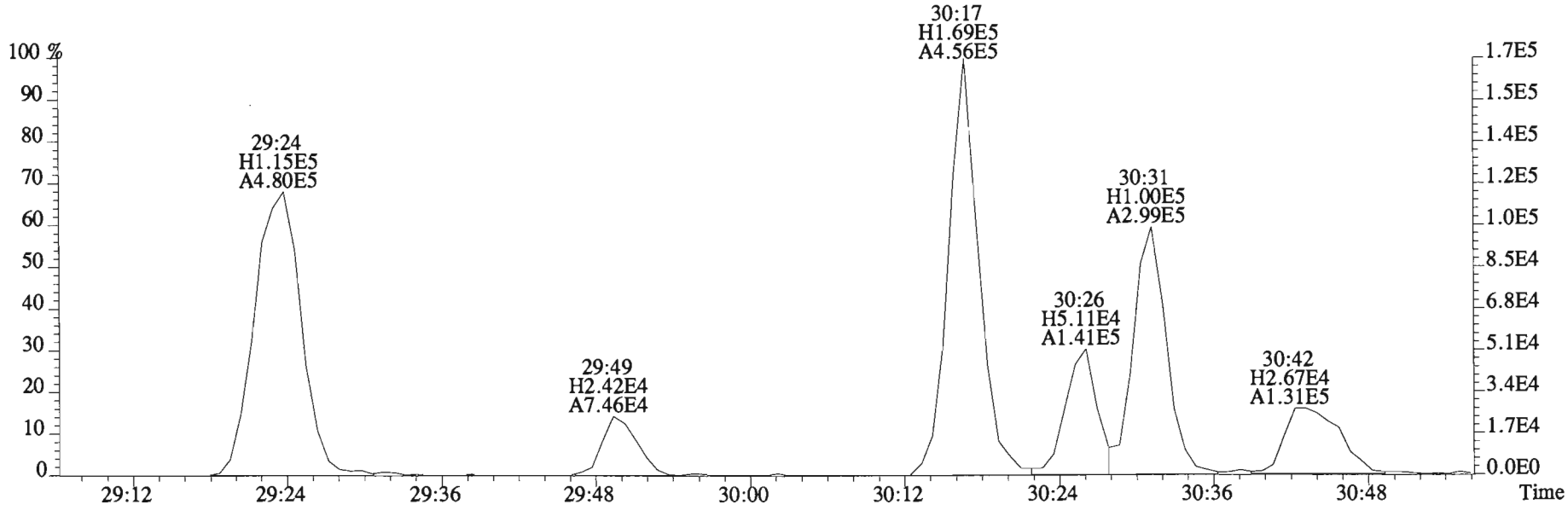
366.9792 S:5 F:2



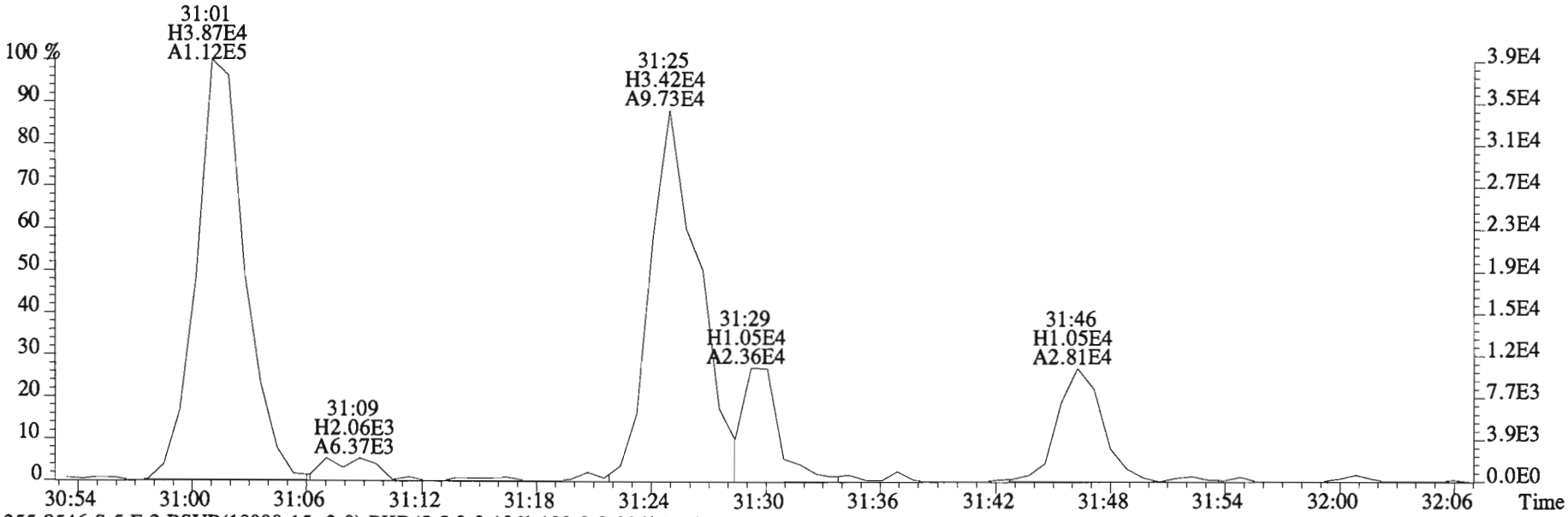
File:150203D1 #1-251 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03@20X AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



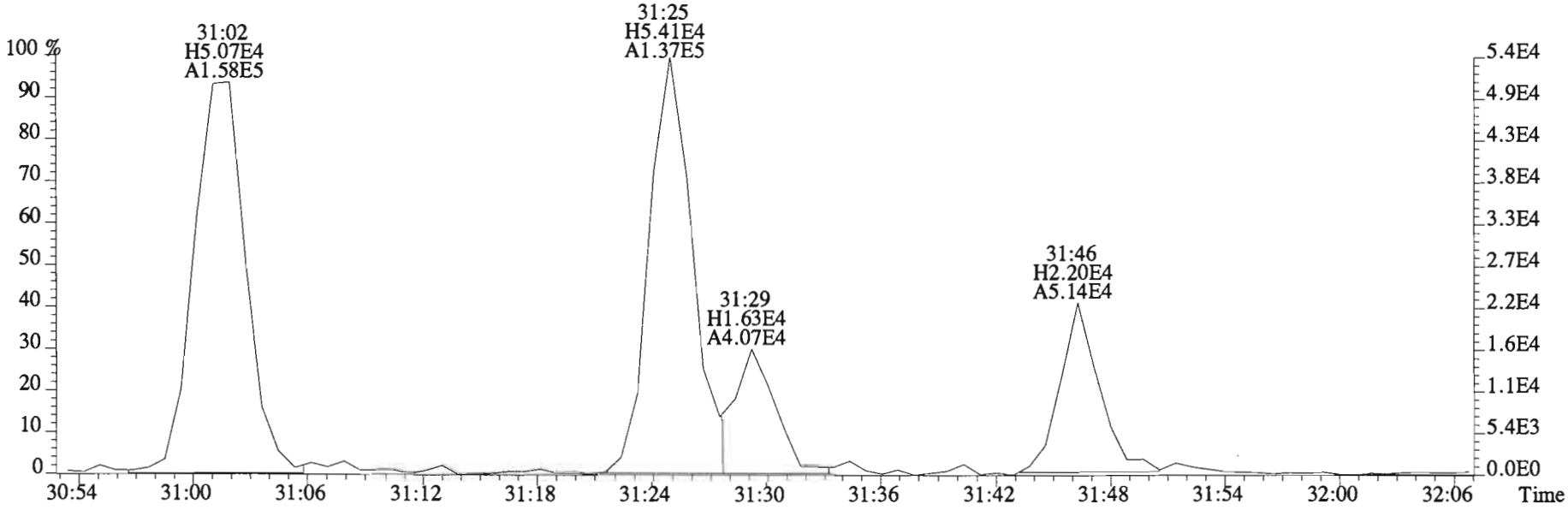
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:150203D1 #1-251 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03@20X AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

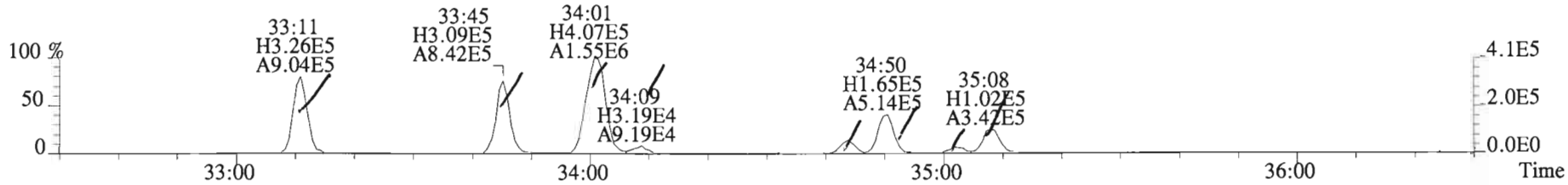


355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

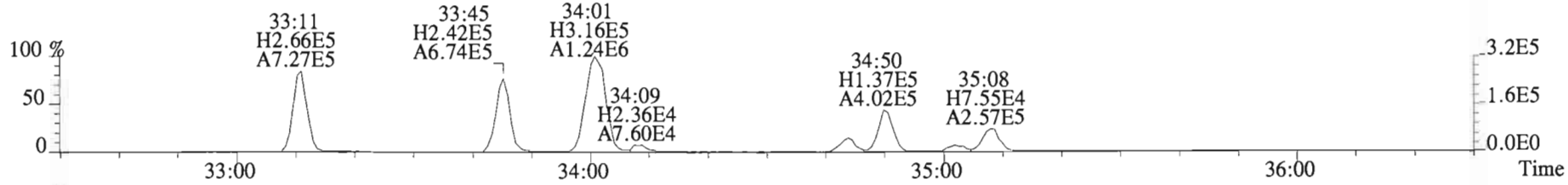


File:150203D1 #1-392 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03 AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5

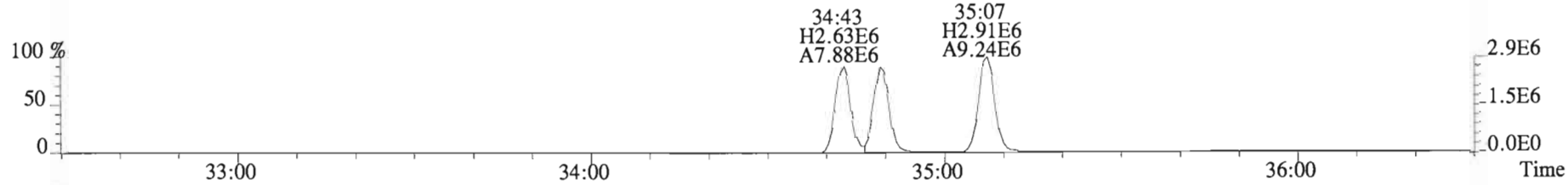
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



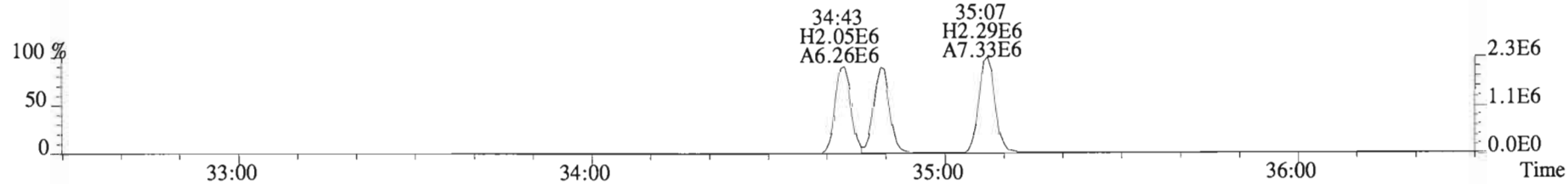
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



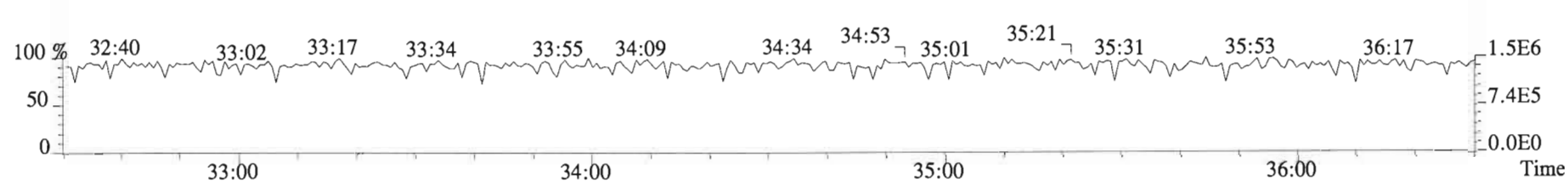
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



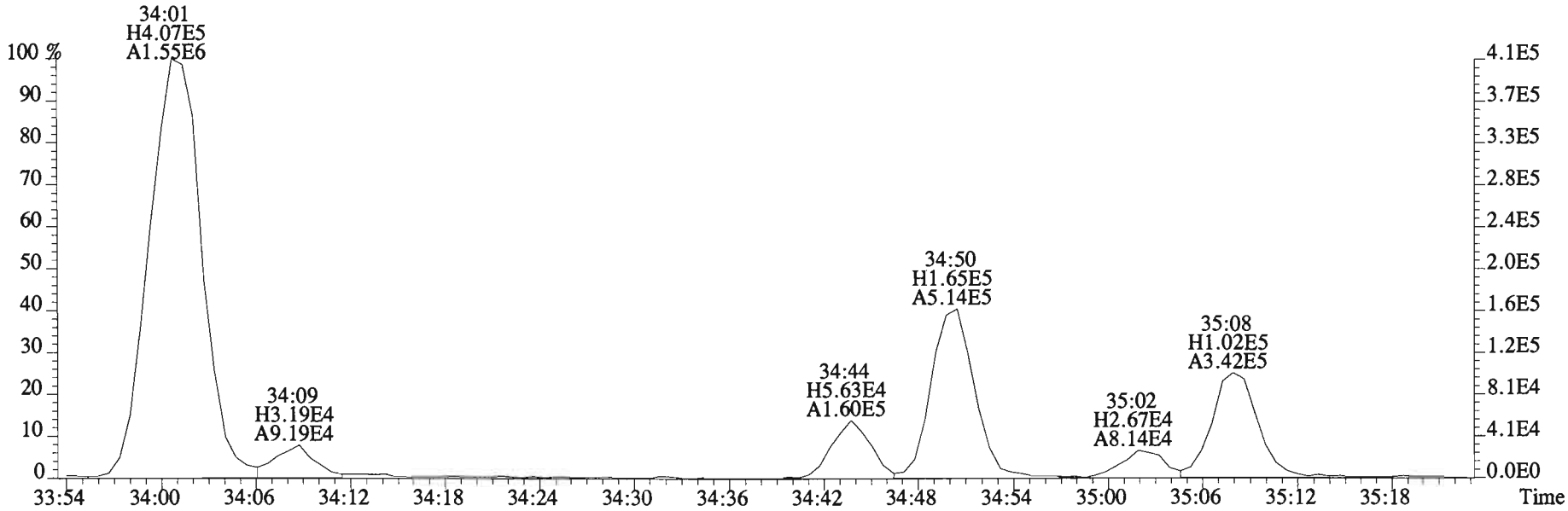
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



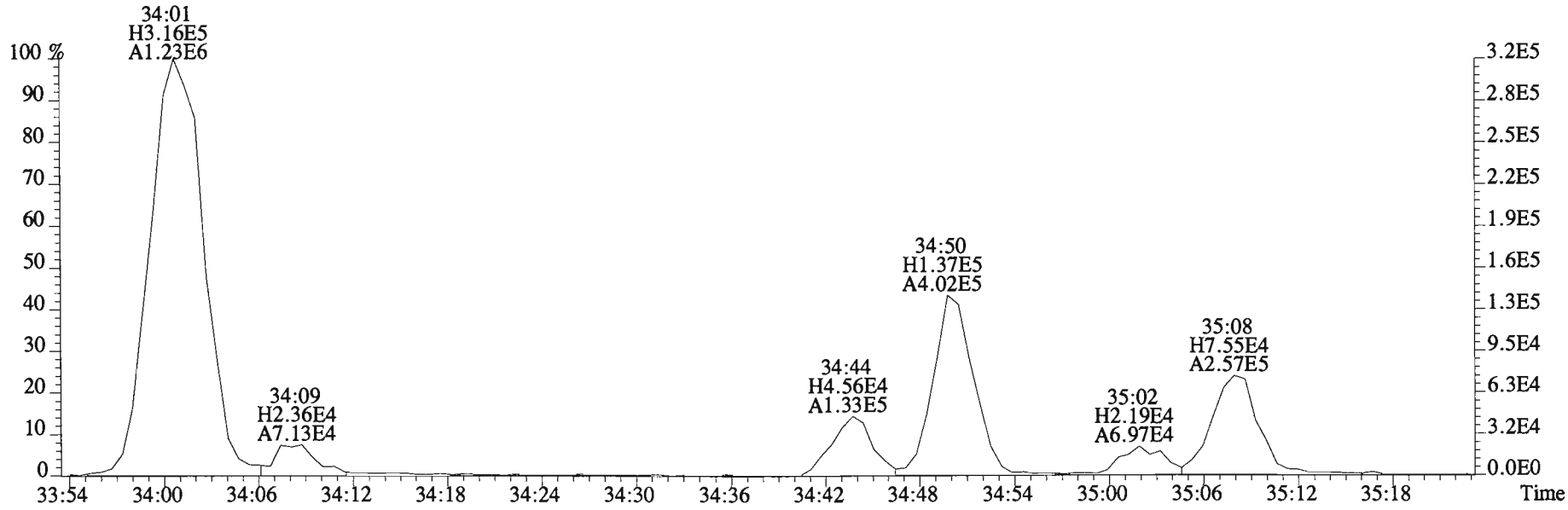
380.9760 S:5 F:3



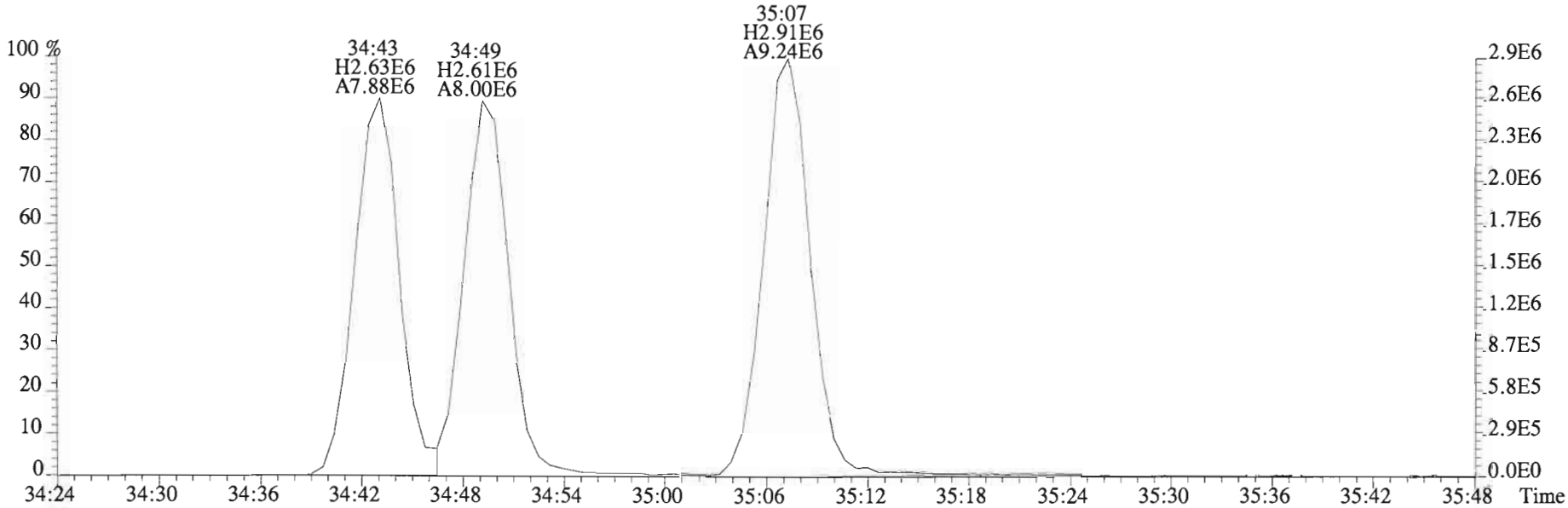
File:150203D1 #1-392 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03@20X AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



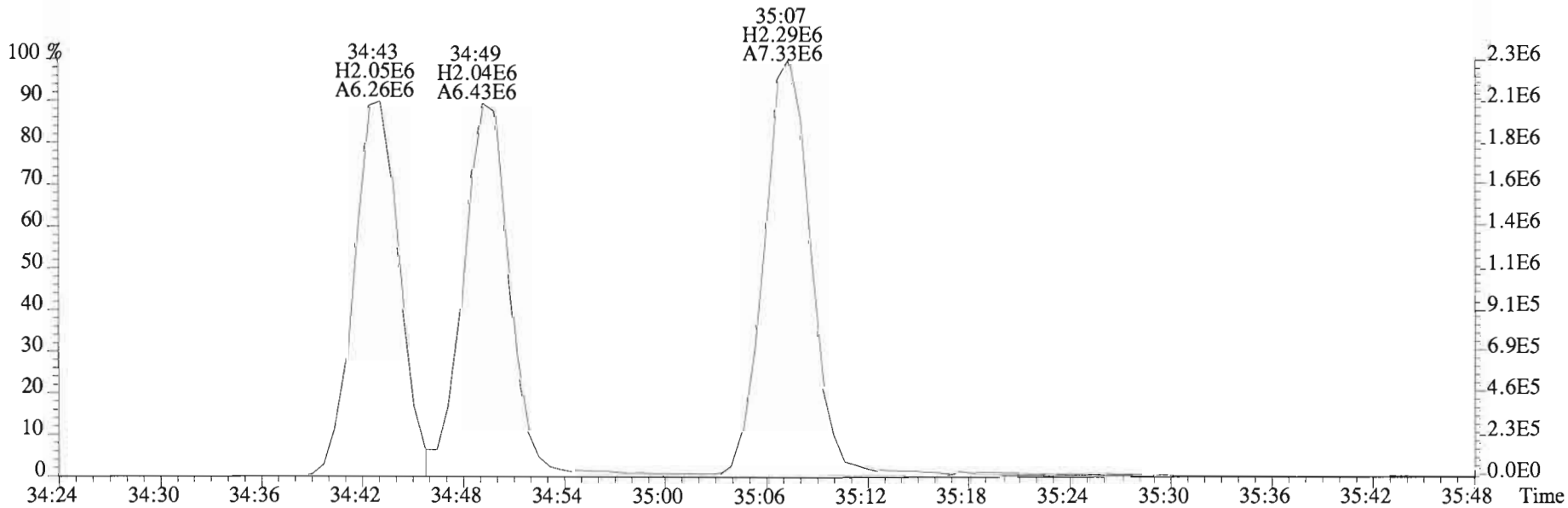
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



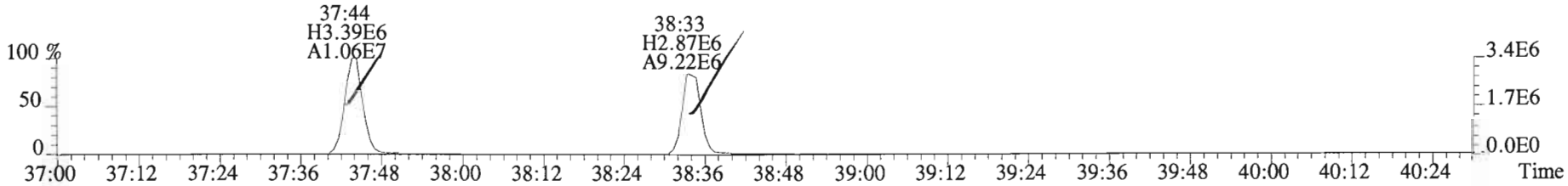
File:150203D1 #1-392 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03 AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



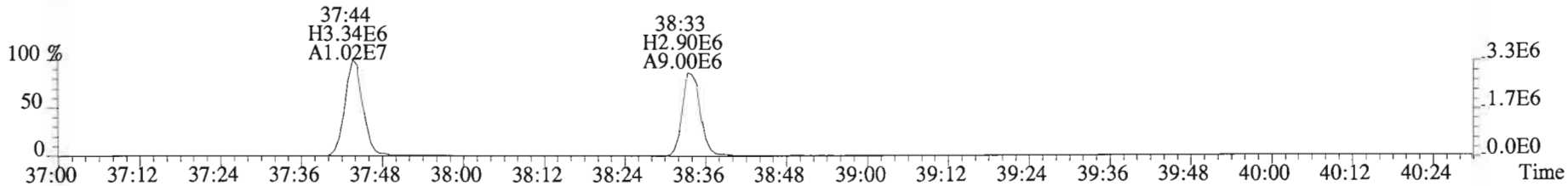
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



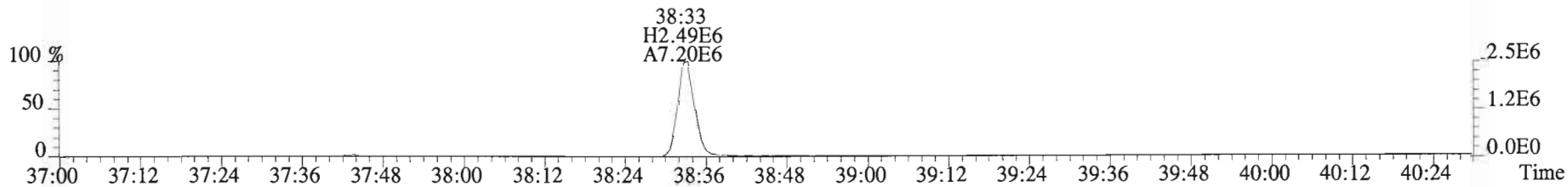
File:150203D1 #1-326 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03 AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



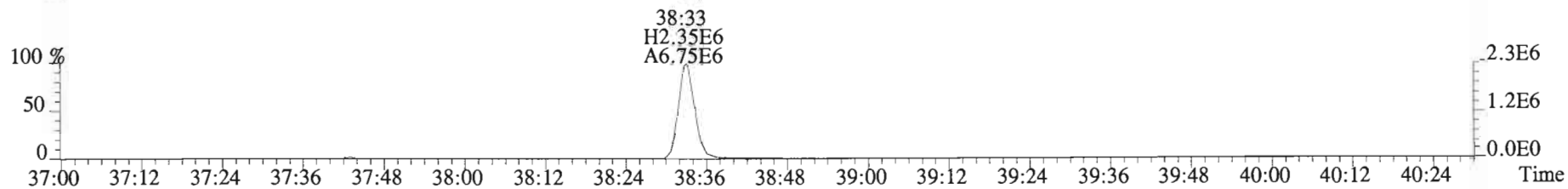
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



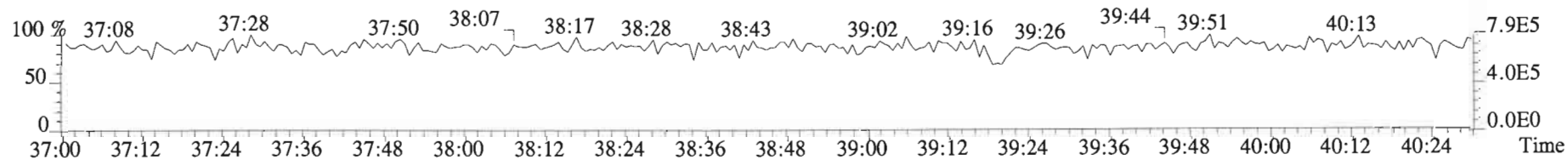
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



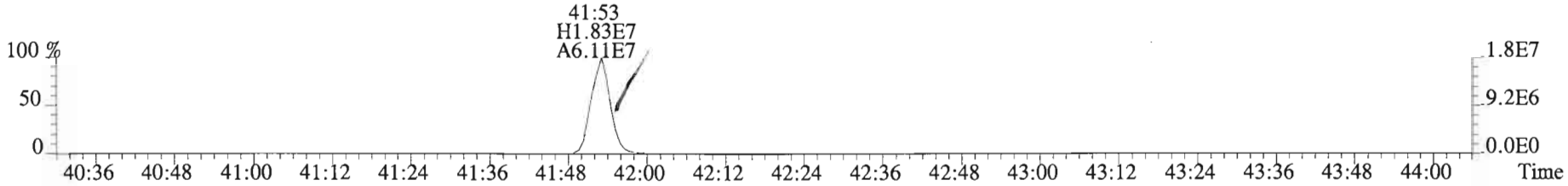
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



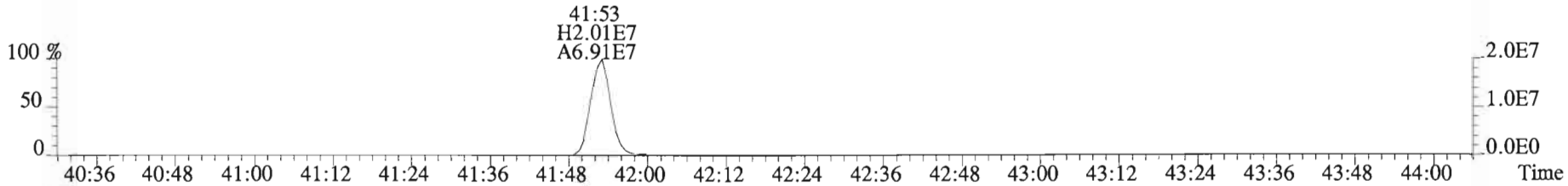
430.9728 S:5 F:4



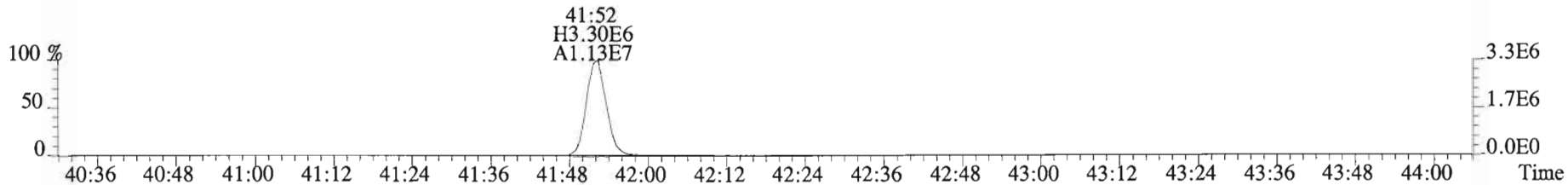
File:150203D1 #1-388 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03 AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



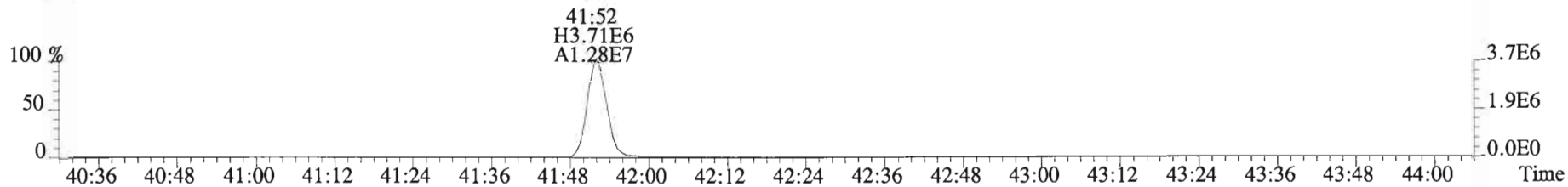
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



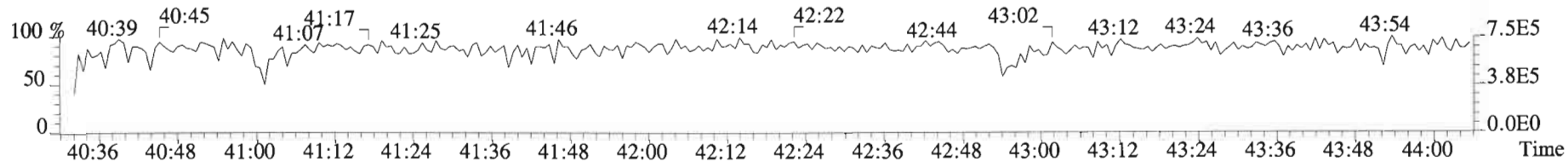
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

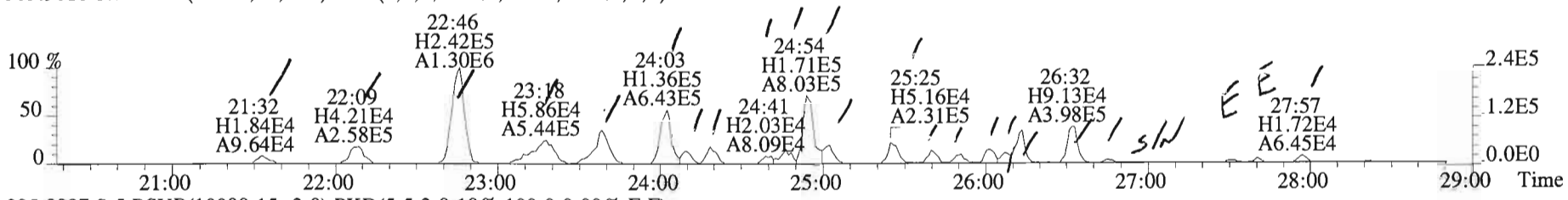


454.9728 S:5 F:5

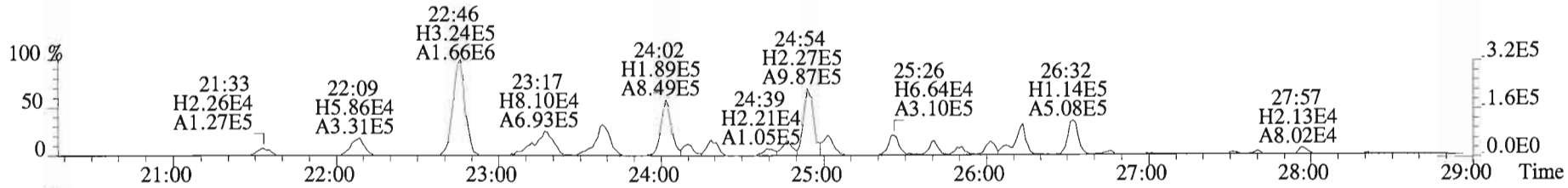


File:150203D1 #1-551 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03 AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5

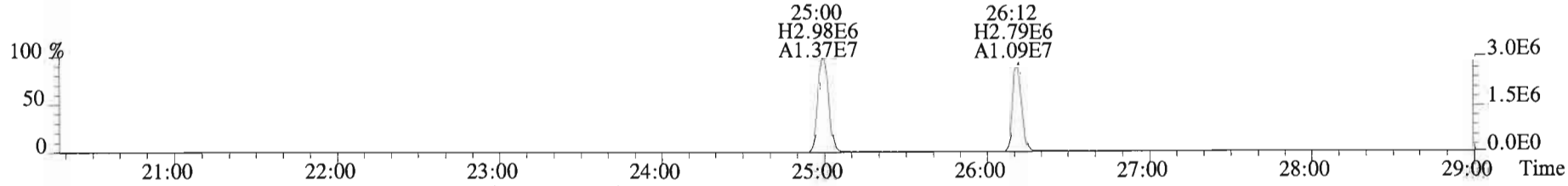
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



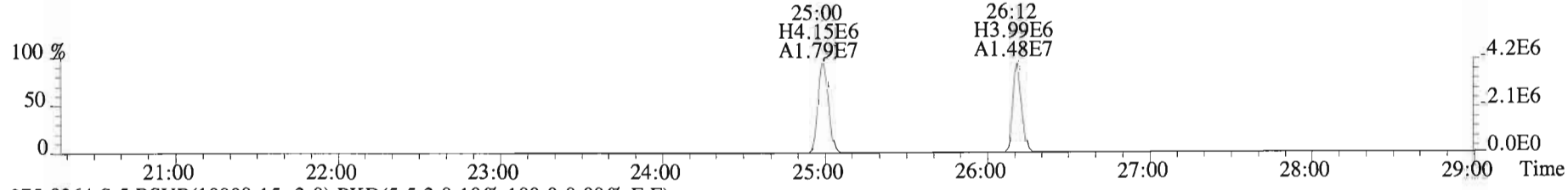
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



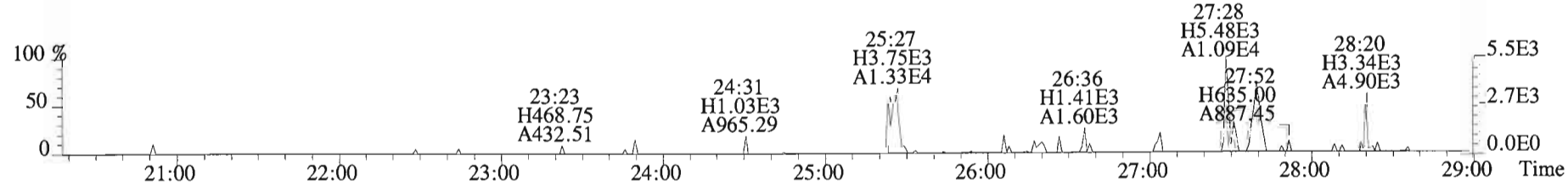
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



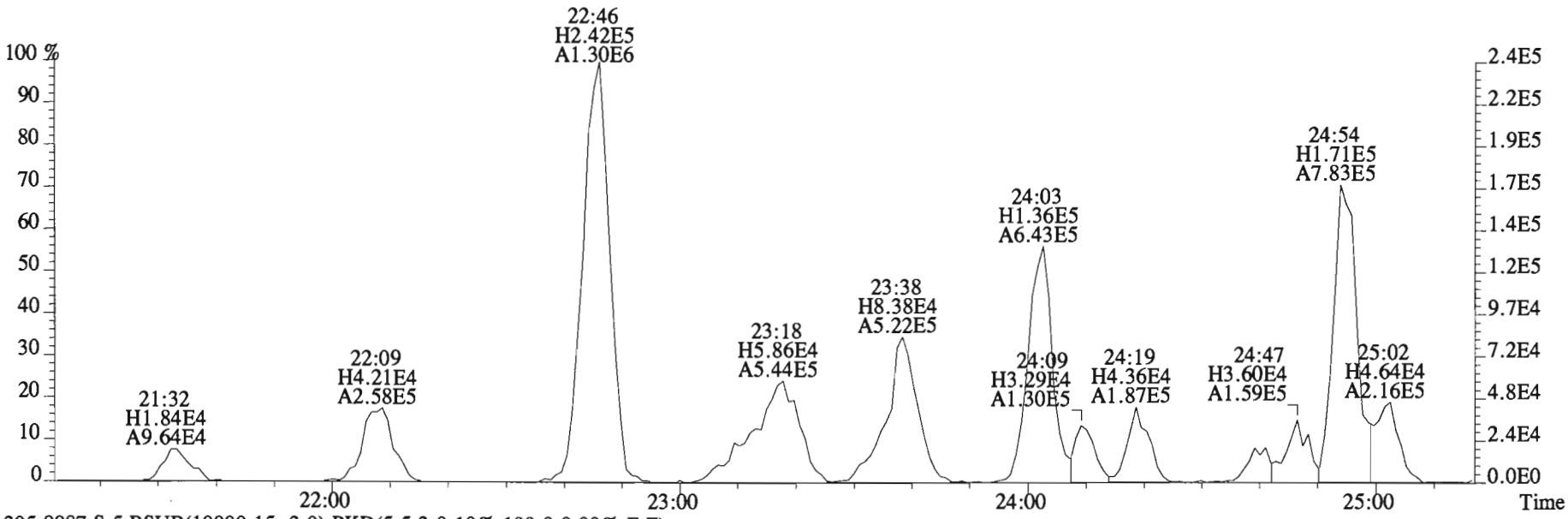
317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



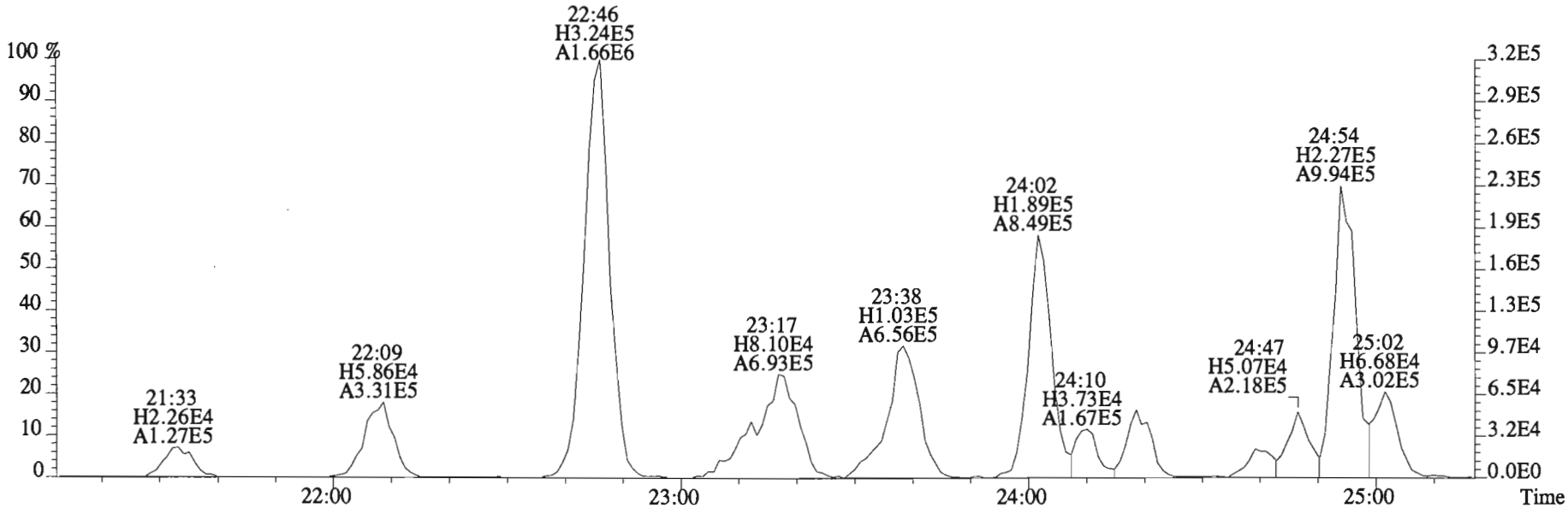
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



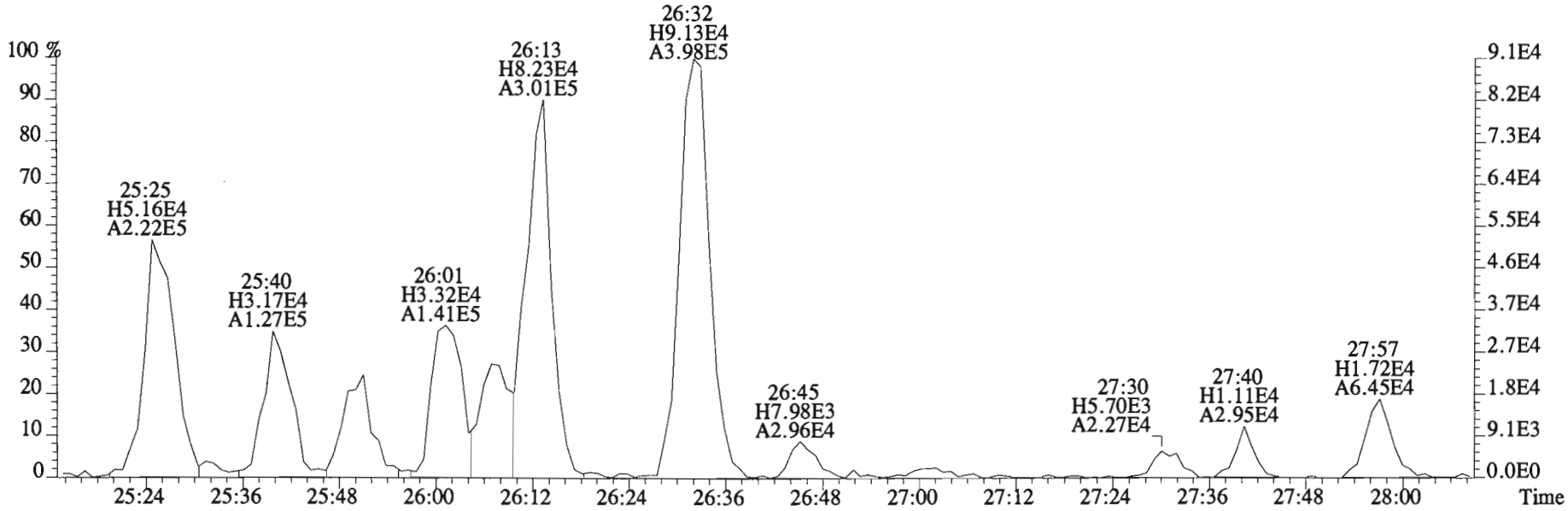
File:150203D1 #1-551 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03@20X AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



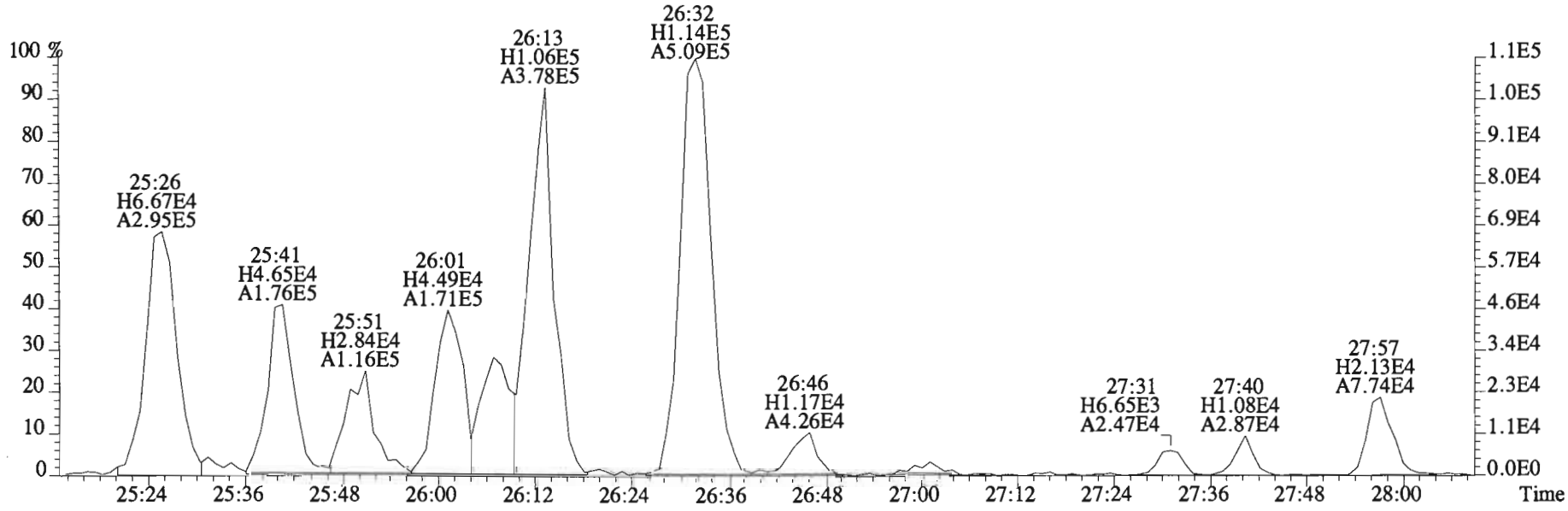
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



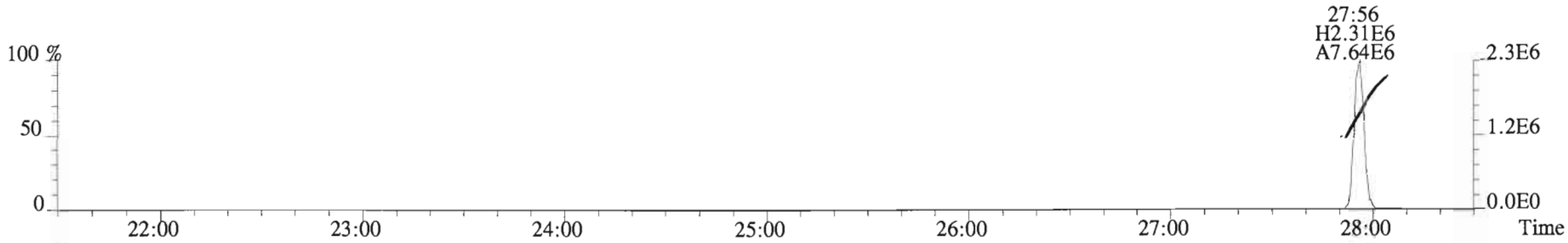
File:150203D1 #1-551 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03@20X AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



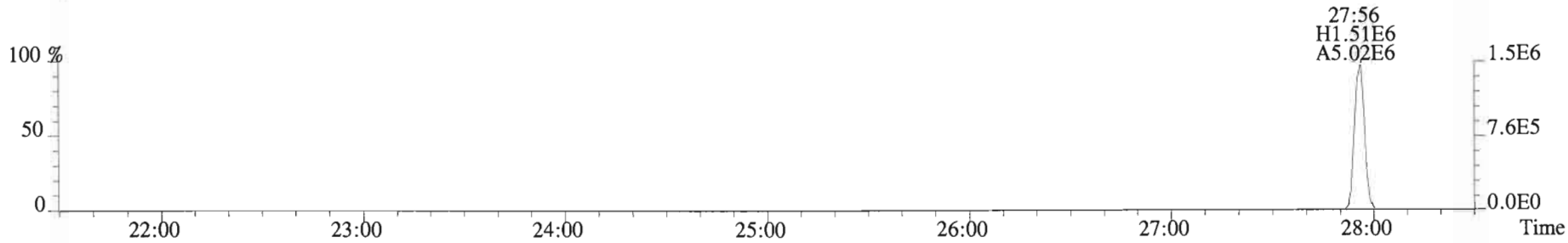
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



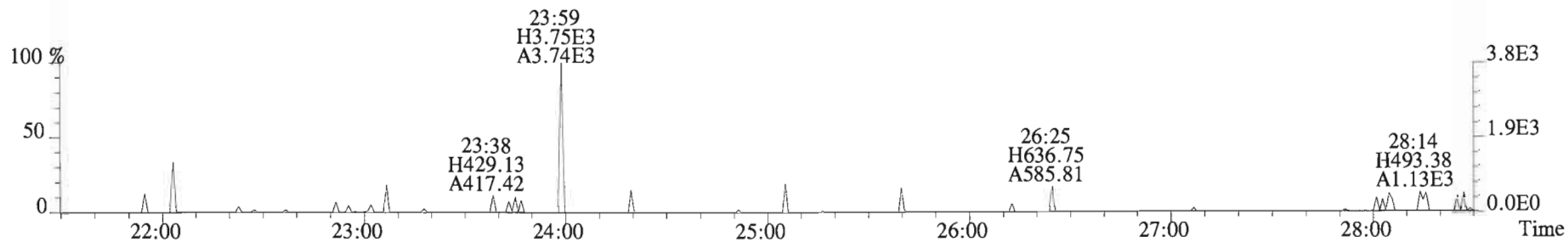
File:150203D1 #1-551 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03 AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



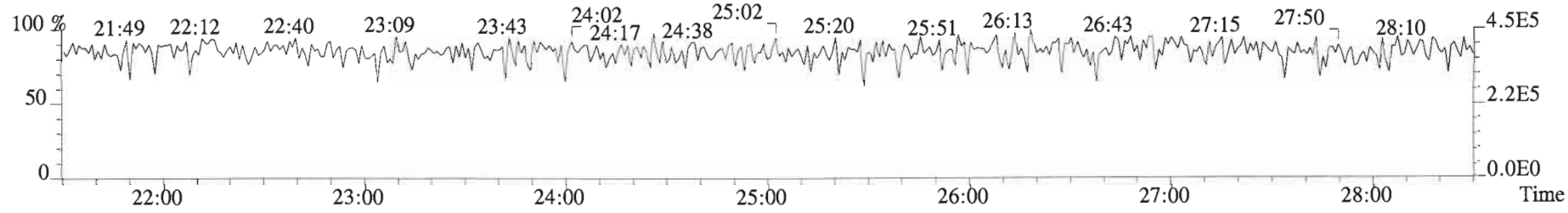
341.8568 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



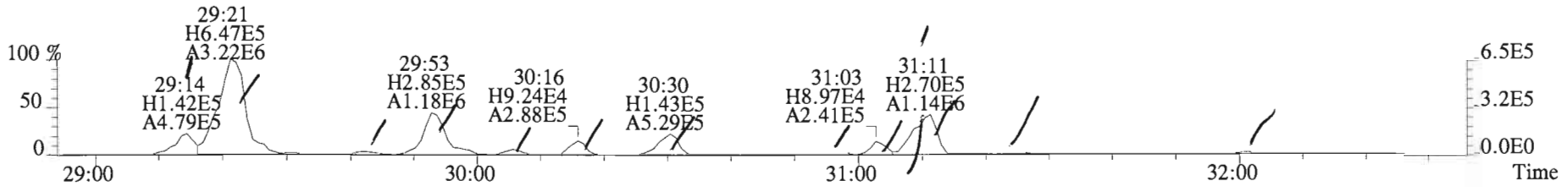
409.7974 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



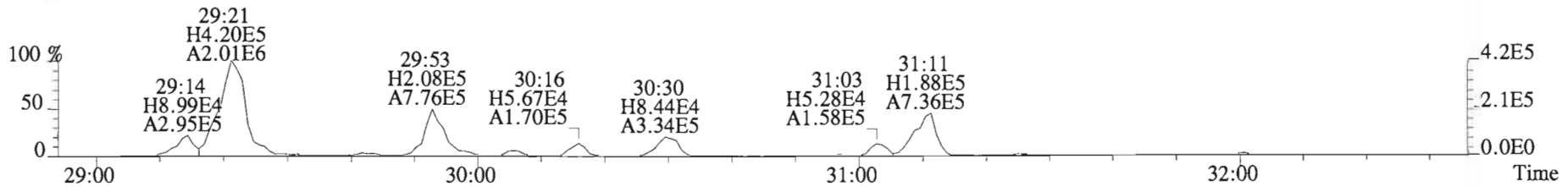
316.9824 S:5



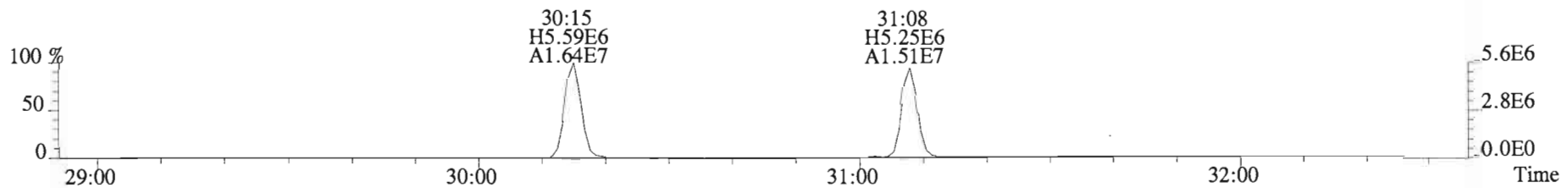
File:150203D1 #1-251 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03 AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



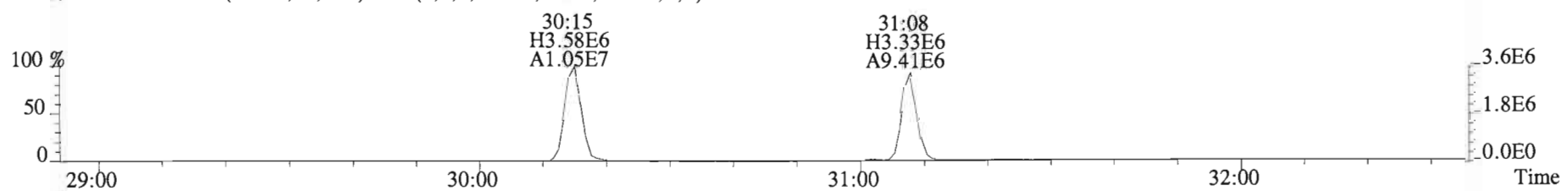
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



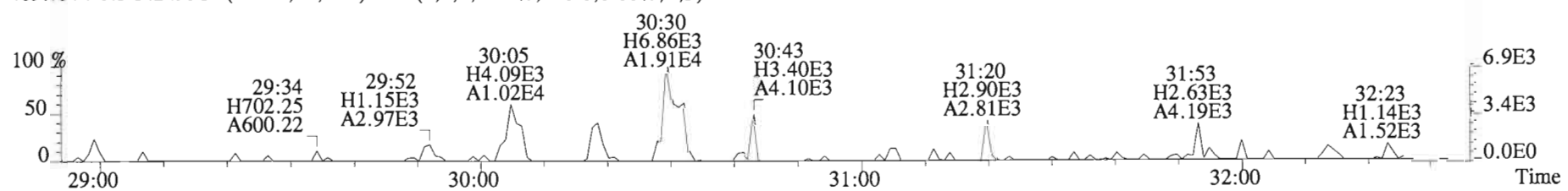
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



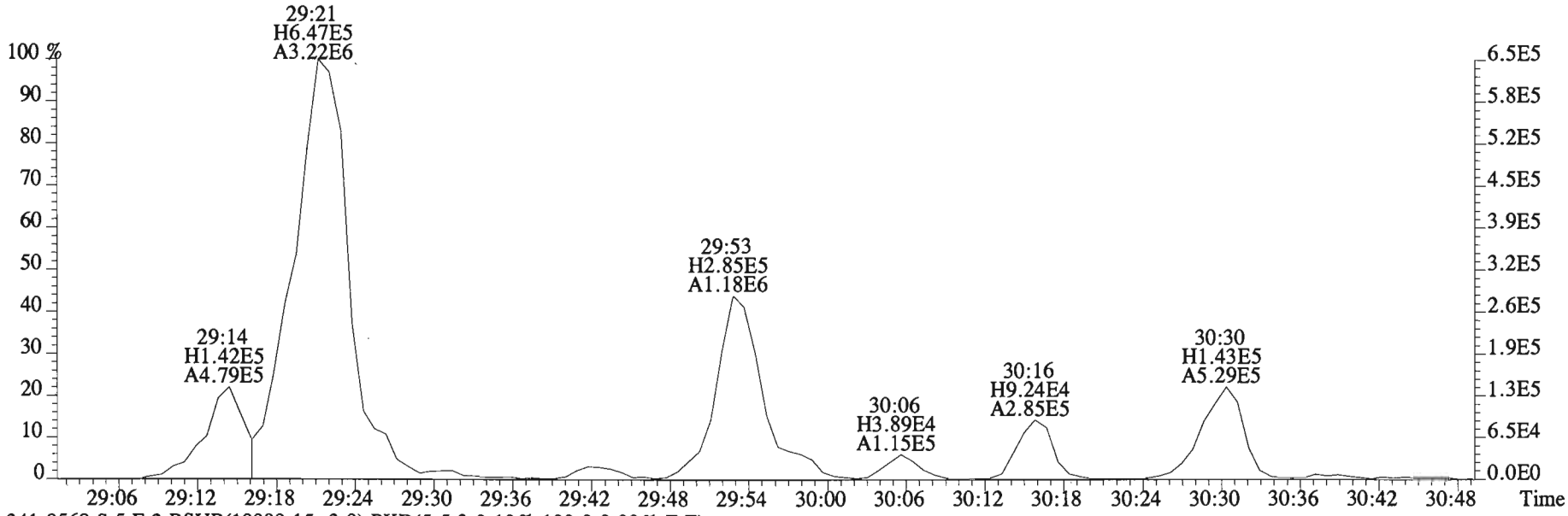
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



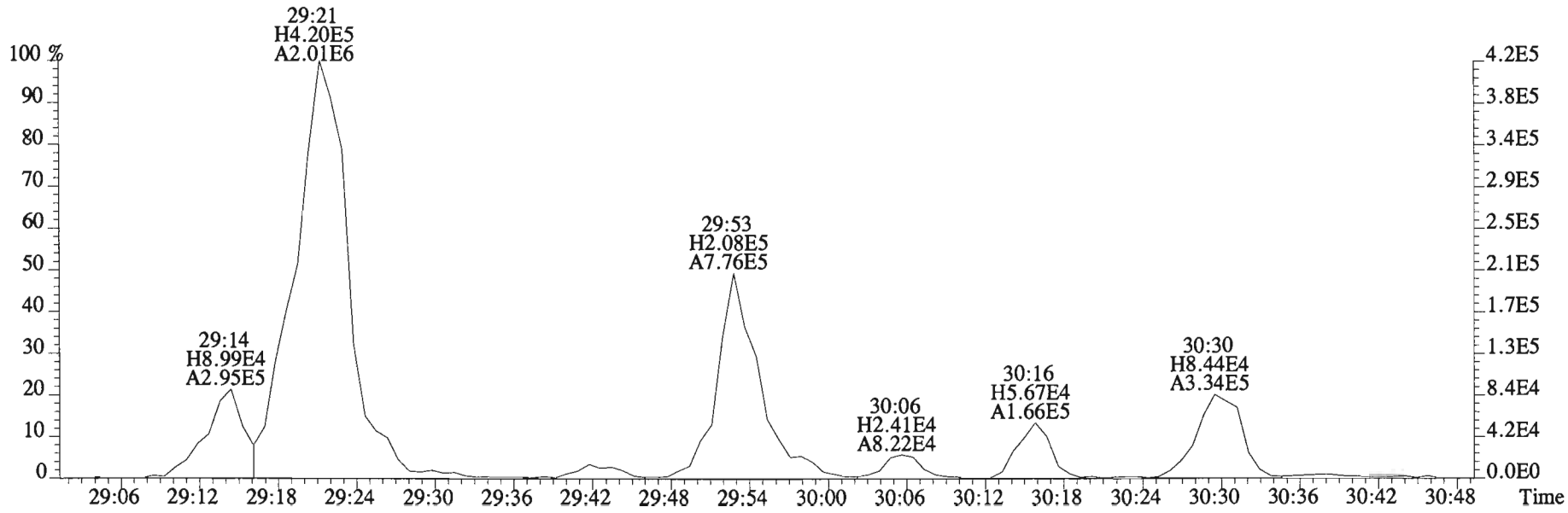
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



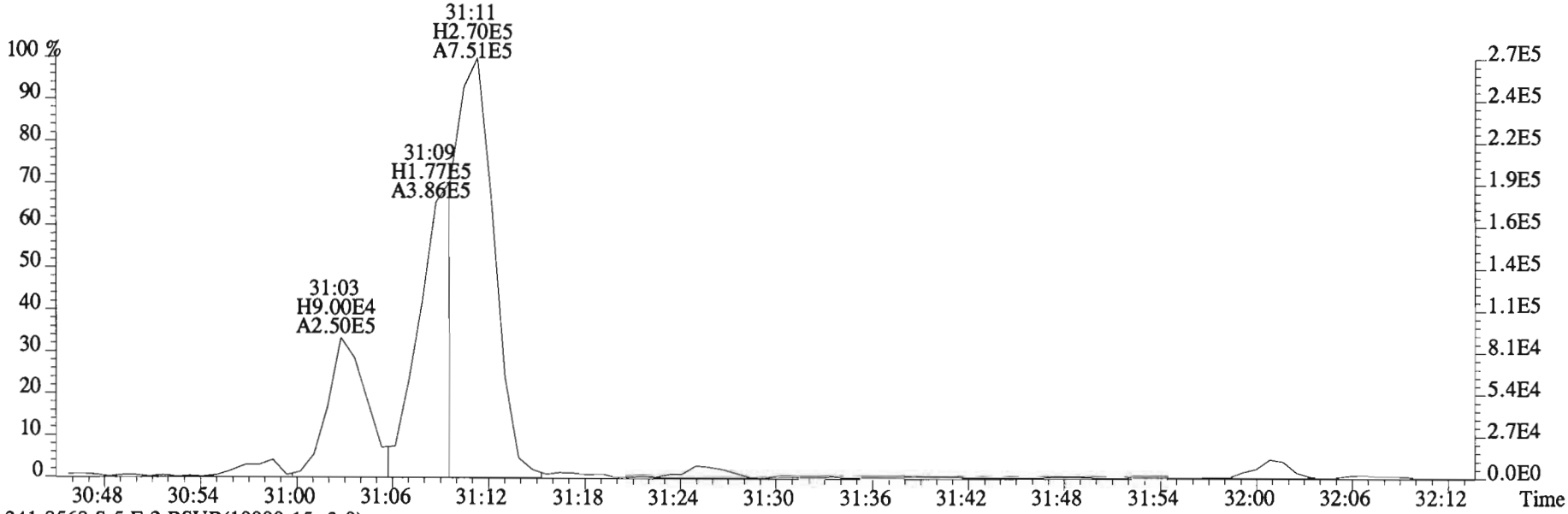
File:150203D1 #1-251 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03@20X AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



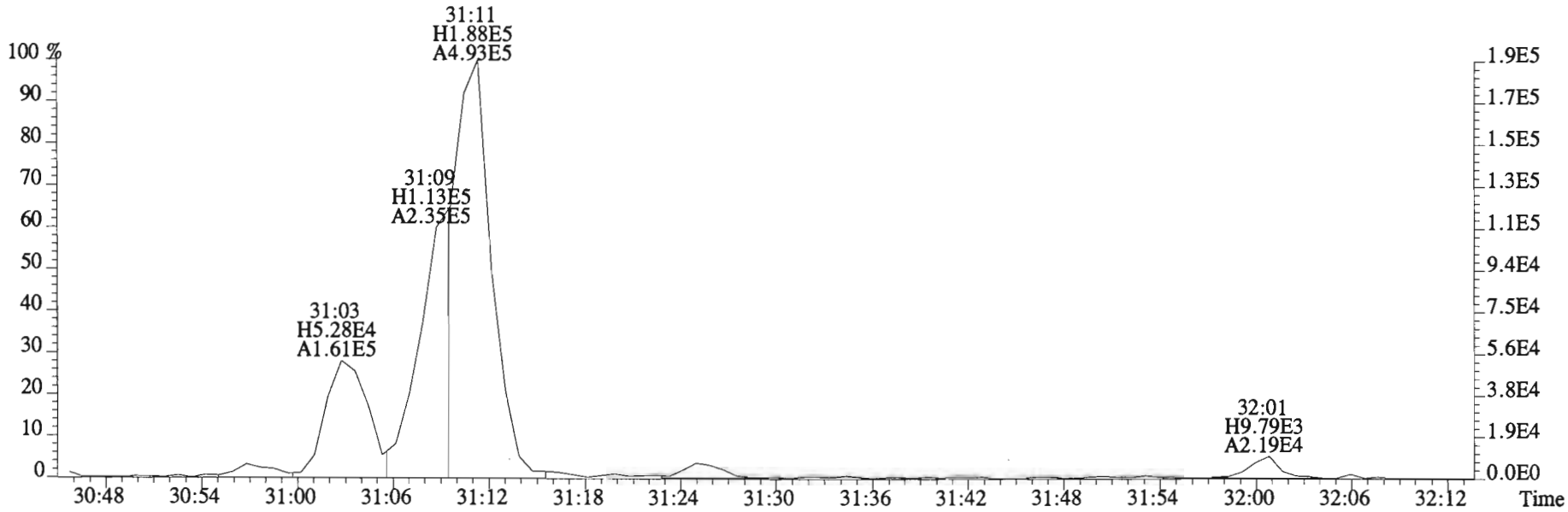
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



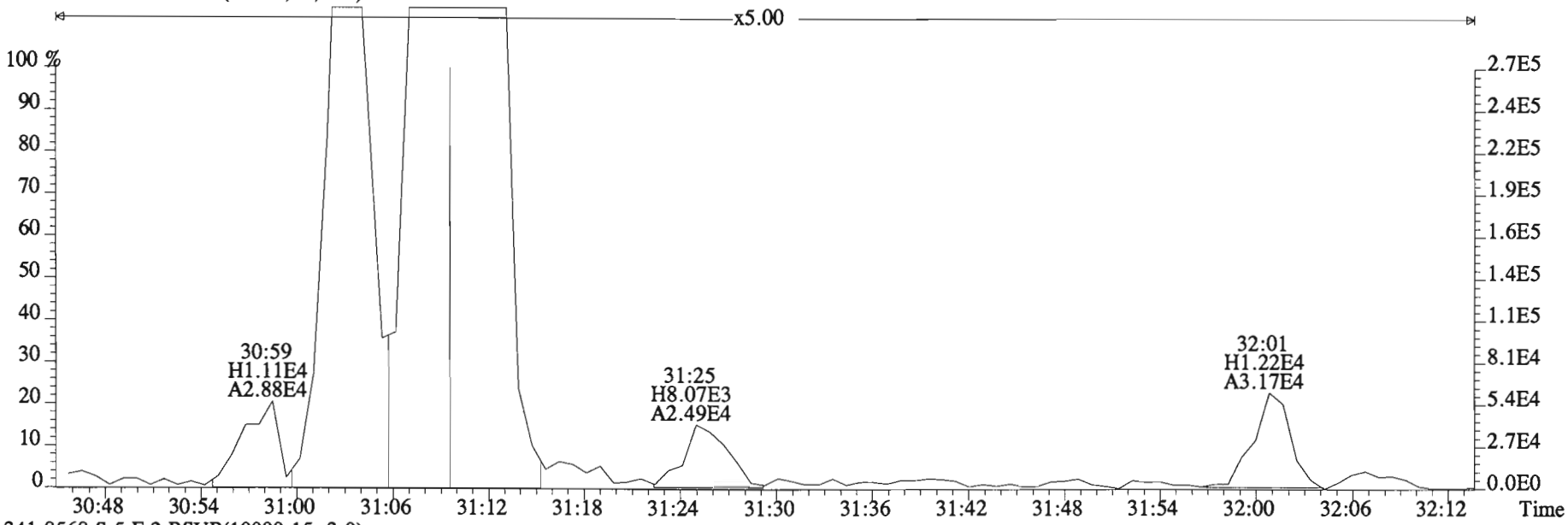
File:150203D1 #1-251 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03@20X AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0)



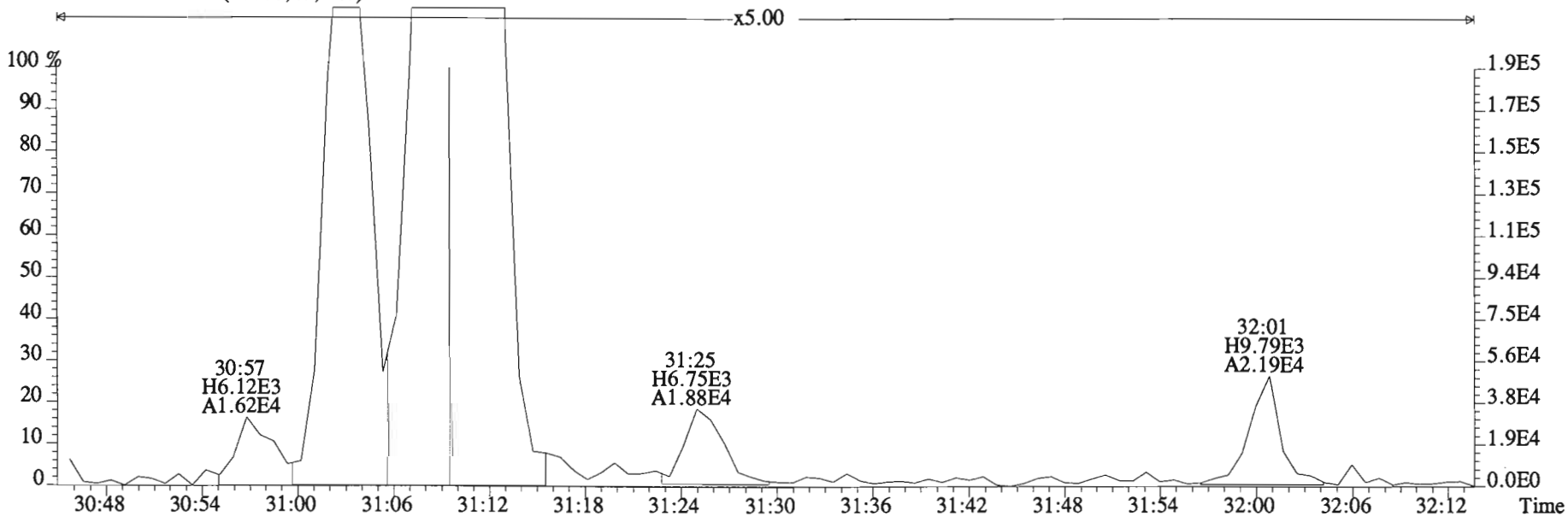
341.8568 S:5 F:2 BSUB(10000,15,-3.0)



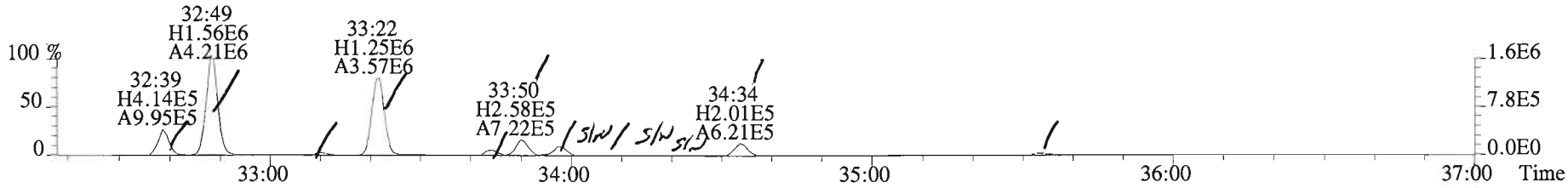
File:150203D1 #1-251 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03@20X AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0)



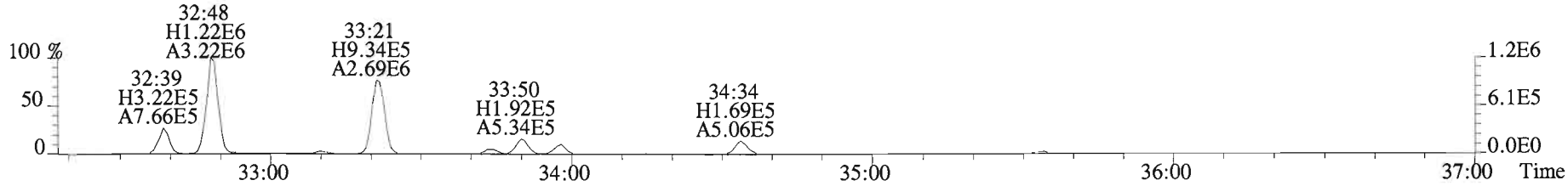
341.8568 S:5 F:2 BSUB(10000,15,-3.0)



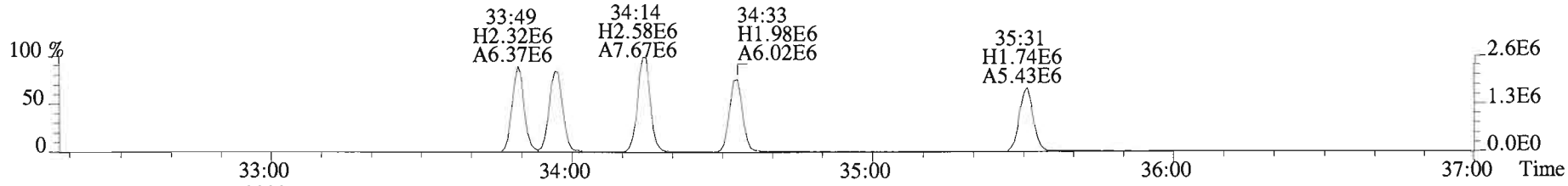
File:150203D1 #1-392 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03 AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



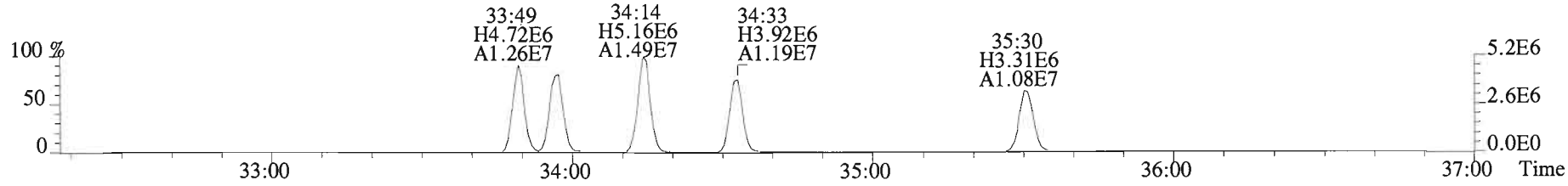
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



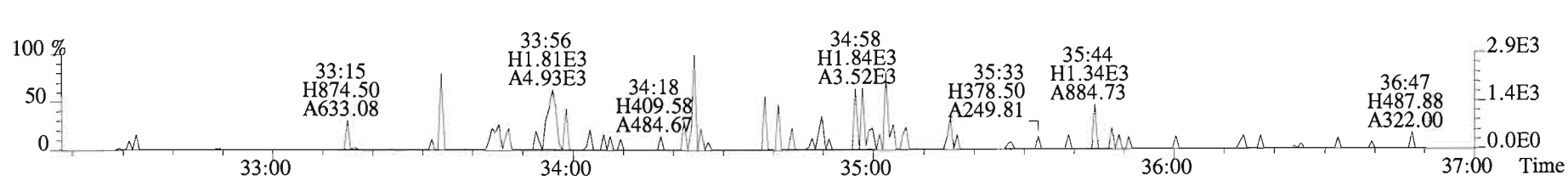
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



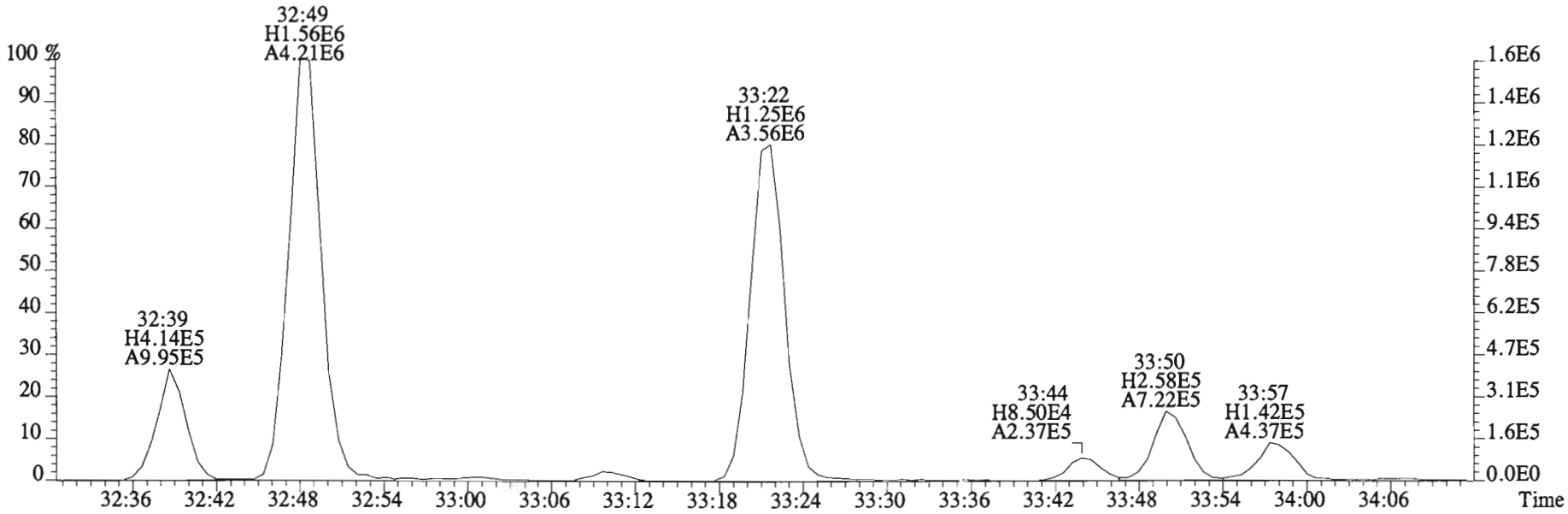
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



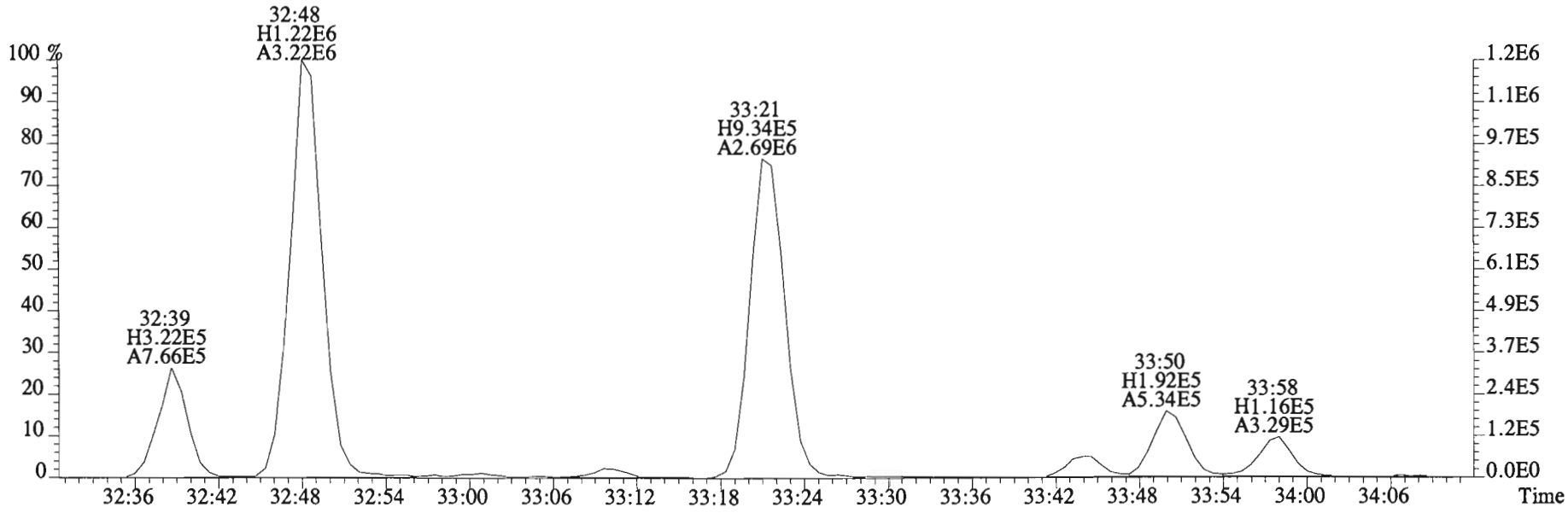
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



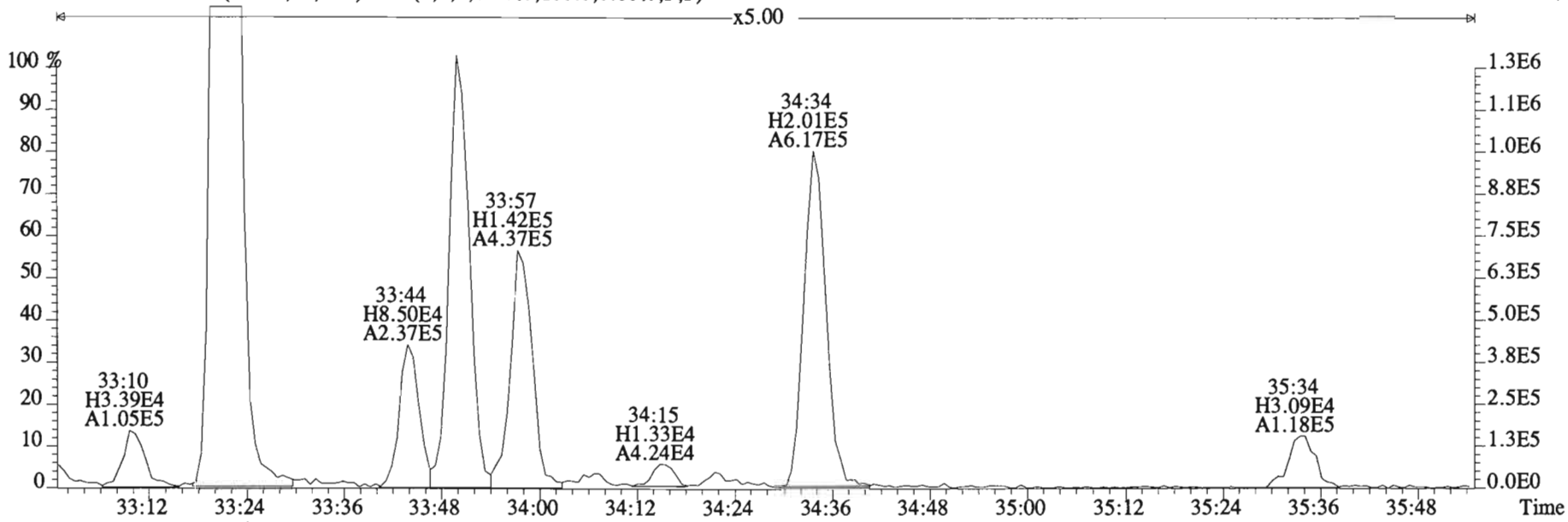
File:150203D1 #1-392 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03@20X AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



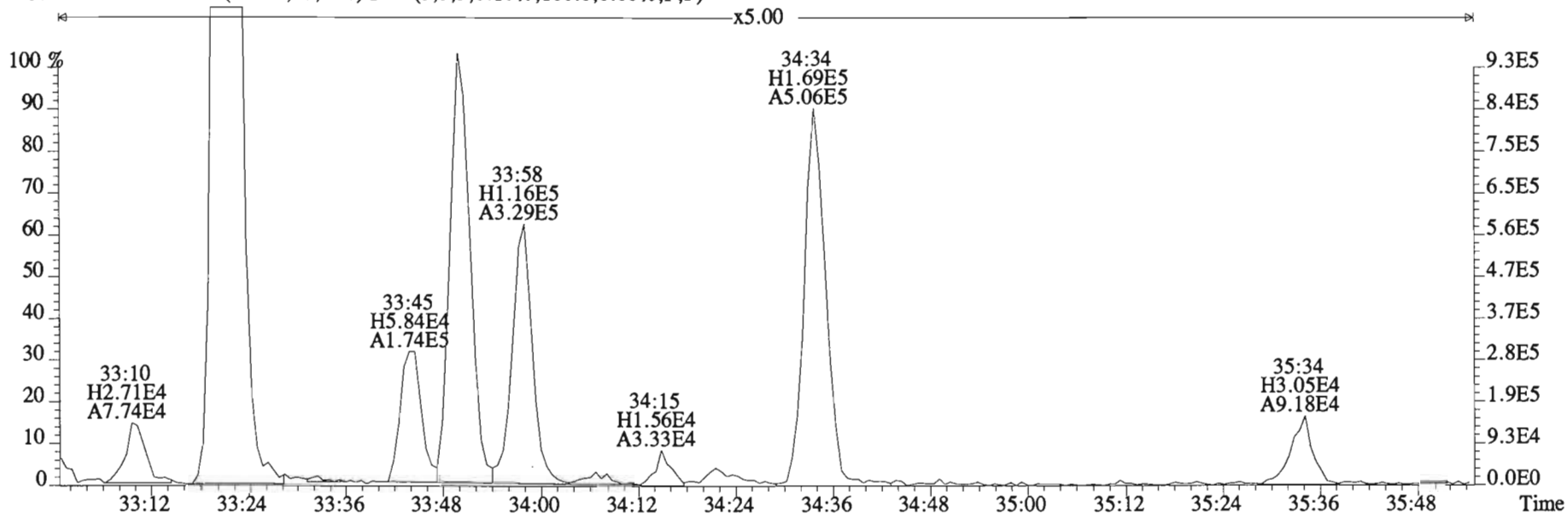
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



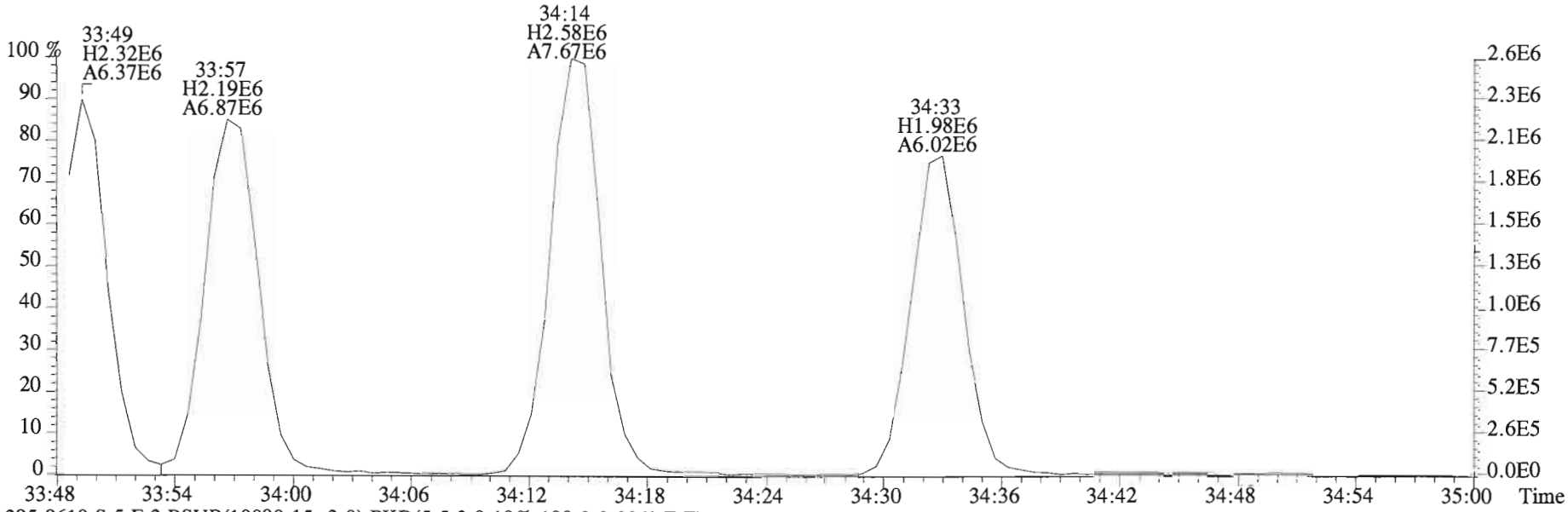
File:150203D1 #1-392 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03@20X AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



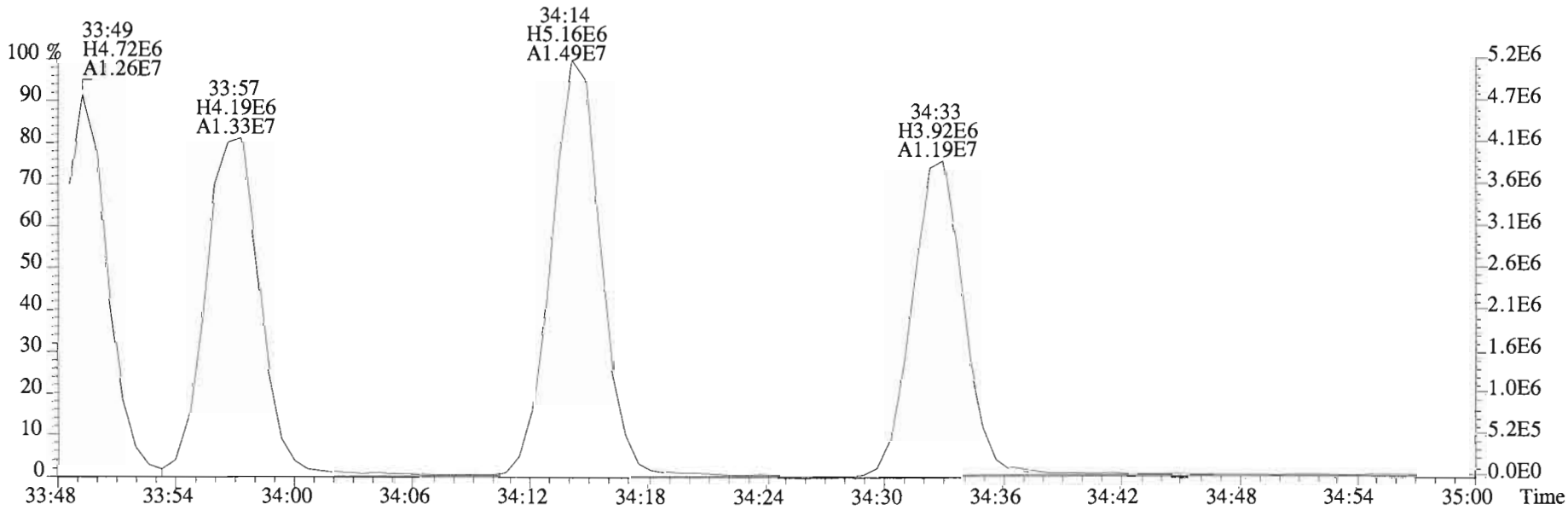
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



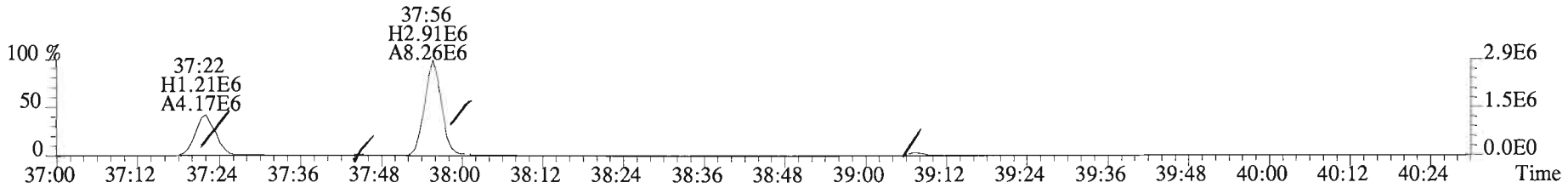
File:150203D1 #1-392 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03 AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



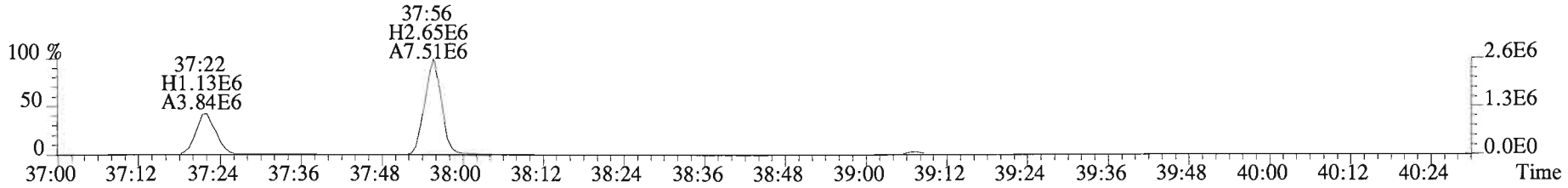
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



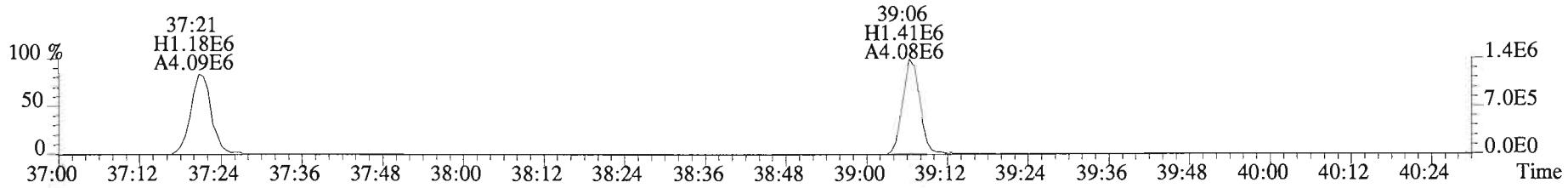
File:150203D1 #1-326 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03 AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



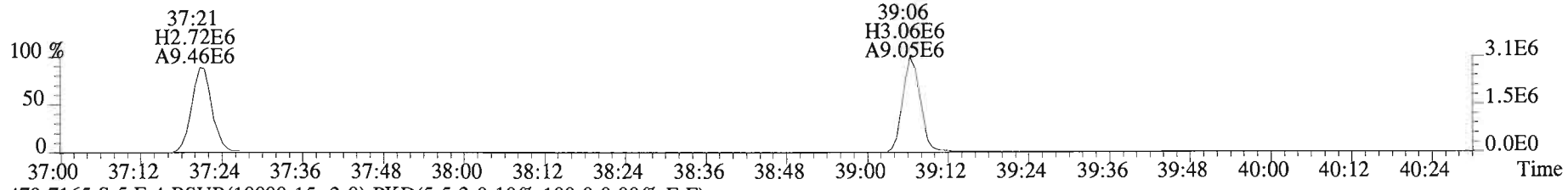
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



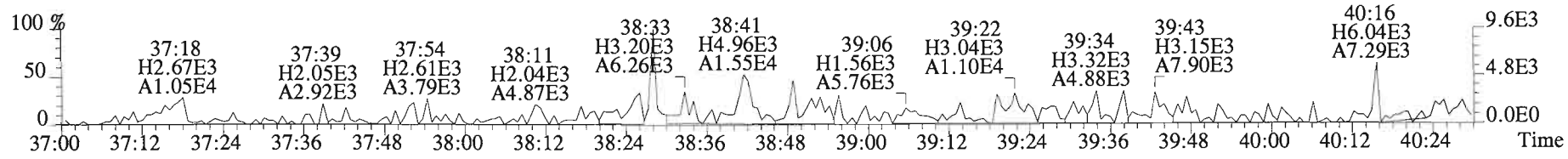
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



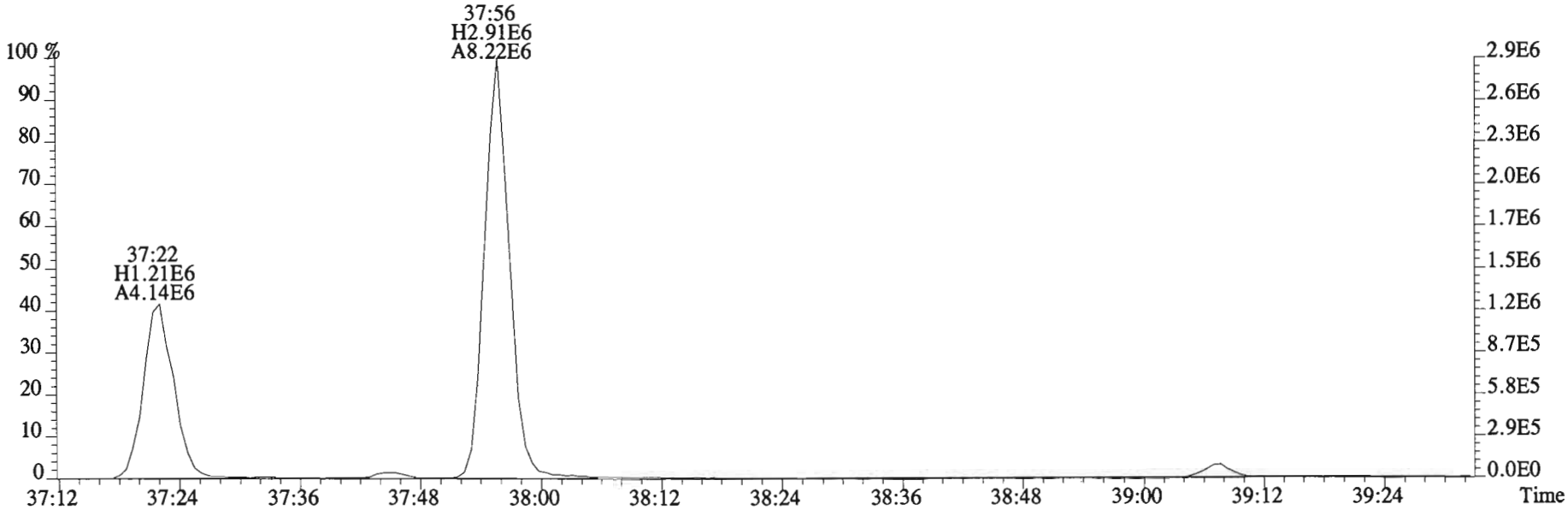
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



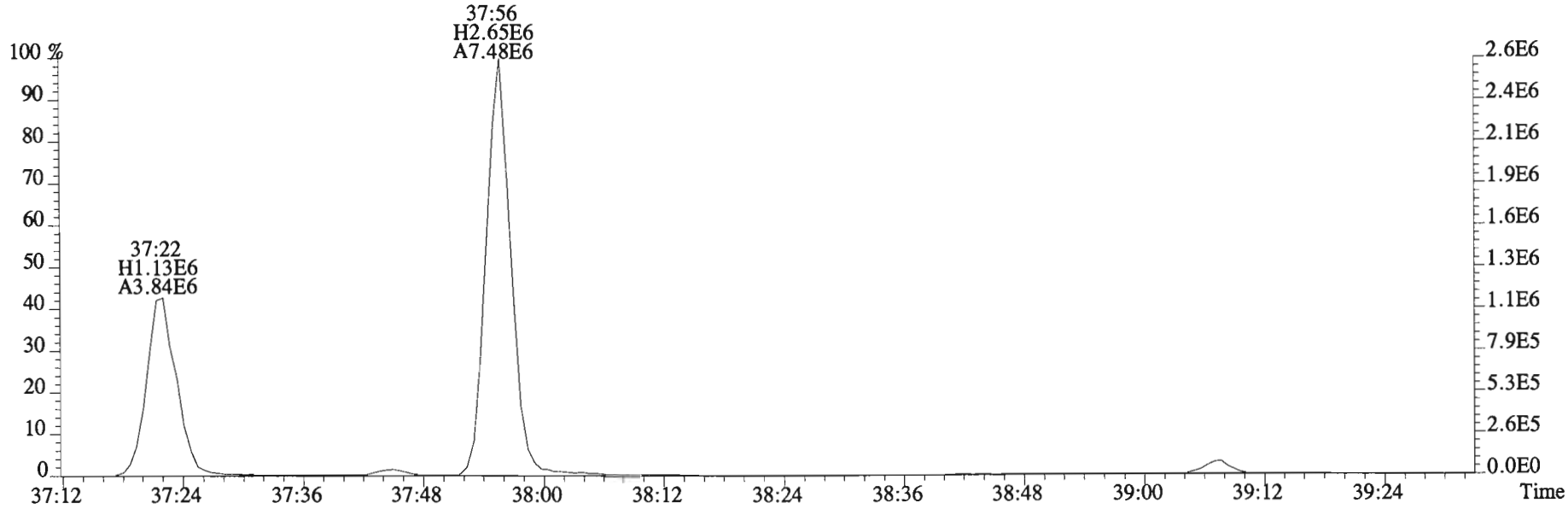
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



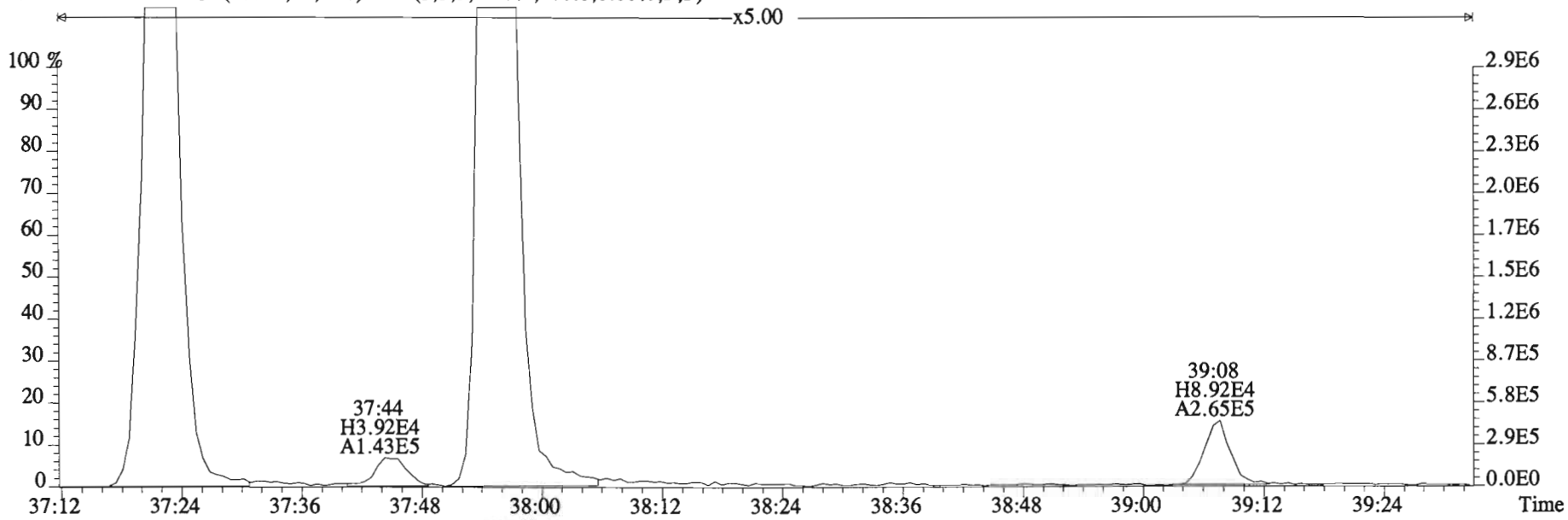
File:150203D1 #1-326 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03@20X AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



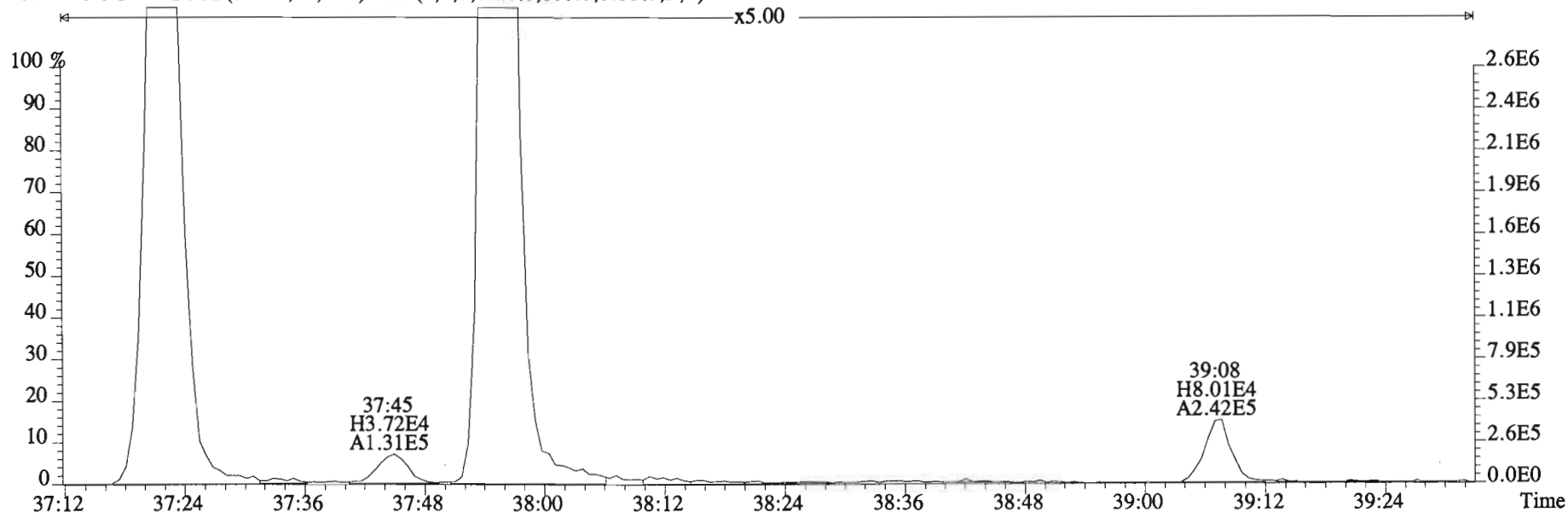
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



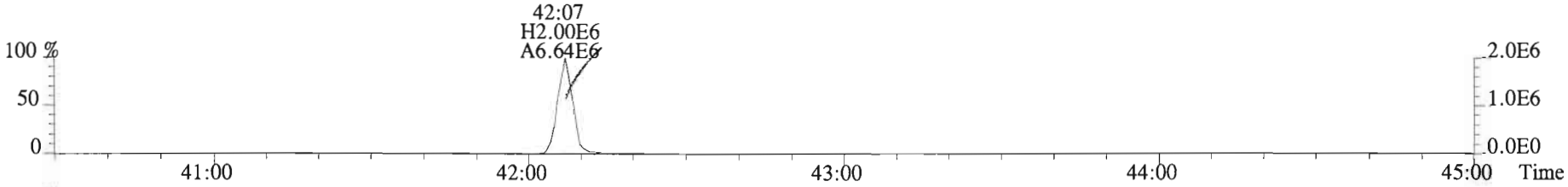
File:150203D1 #1-326 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03@20X AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



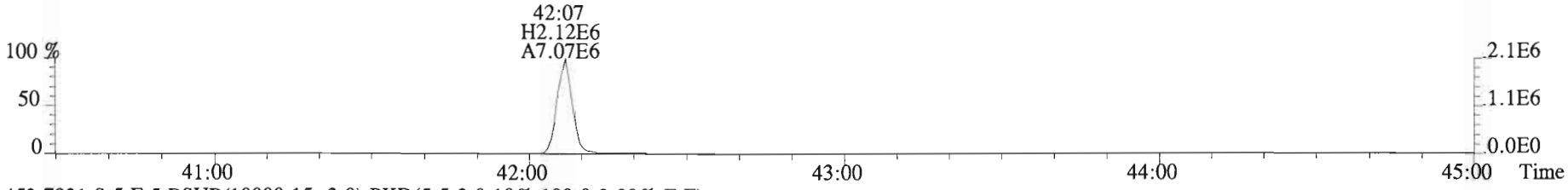
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



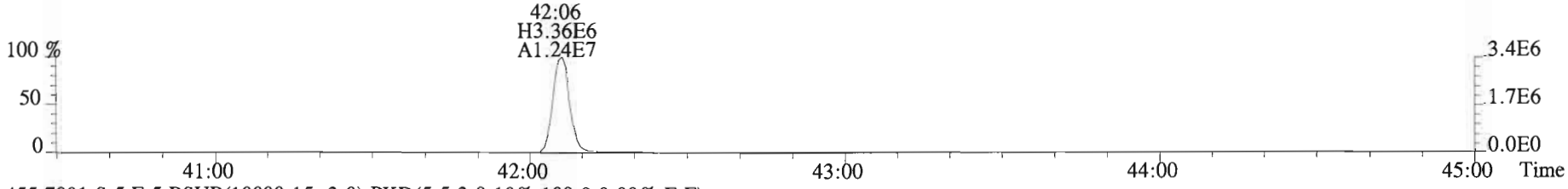
File:150203D1 #1-388 Acq: 3-FEB-2015 11:49:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500108-03 AS-CB-UNR-20150120-S 15.93 Exp:OCDD_DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



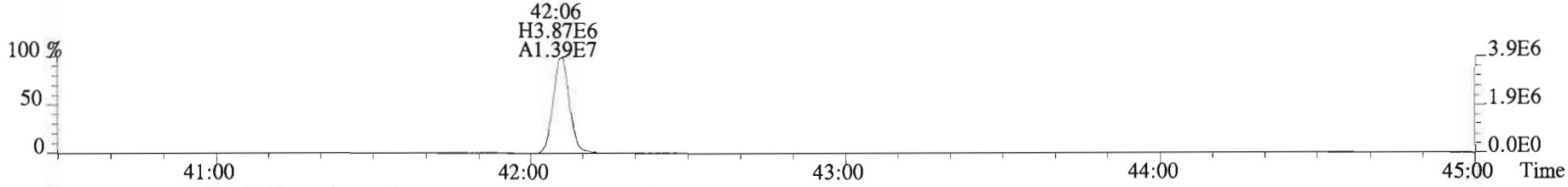
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



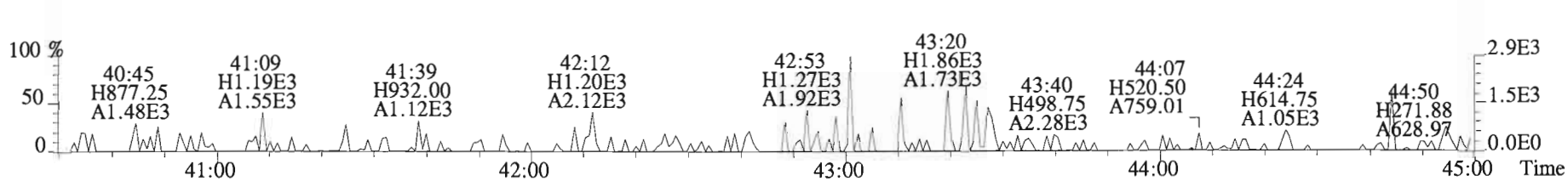
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Client ID: Method Blank Filename: 150130D2 S:4 Acq:31-JAN-15 00:37:21 ConCal: ST150130D2-1
Lab ID: B5A0110-BLK1 GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.000 EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	Conc	Q	noise	Fac	DL
2,3,7,8-TCDD	*	*	n	1.17	NotF	*	*		643	2.5	0.857
1,2,3,7,8-PeCDD	*	*	n	0.91	NotF	*	*		638	2.5	0.692
1,2,3,4,7,8-HxCDD	*	*	n	1.08	NotF	*	*		601	2.5	1.21
1,2,3,6,7,8-HxCDD	*	*	n	1.06	NotF	*	*		601	2.5	1.19
1,2,3,7,8,9-HxCDD	*	*	n	0.93	NotF	*	*		601	2.5	1.22
1,2,3,4,6,7,8-HpCDD	*	*	n	1.10	NotF	*	*		639	2.5	1.23
OCDD	*	*	n	0.95	NotF	*	*		964	2.5	2.84
2,3,7,8-TCDF	*	*	n	1.07	NotF	*	*		594	2.5	0.643
1,2,3,7,8-PeCDF	*	*	n	1.07	NotF	*	*		571	2.5	0.766
2,3,4,7,8-PeCDF	*	*	n	1.03	NotF	*	*		571	2.5	0.665
1,2,3,4,7,8-HxCDF	*	*	n	1.38	NotF	*	*		547	2.5	0.421
1,2,3,6,7,8-HxCDF	*	*	n	1.26	NotF	*	*		547	2.5	0.484
2,3,4,6,7,8-HxCDF	*	*	n	1.29	NotF	*	*		547	2.5	0.497
1,2,3,7,8,9-HxCDF	*	*	n	1.19	NotF	*	*		547	2.5	0.618
1,2,3,4,6,7,8-HpCDF	*	*	n	1.61	NotF	*	*		487	2.5	0.516
1,2,3,4,7,8,9-HpCDF	*	*	n	1.53	NotF	*	*		487	2.5	0.478
OCDF	*	*	n	1.10	NotF	*	*		412	2.5	0.926

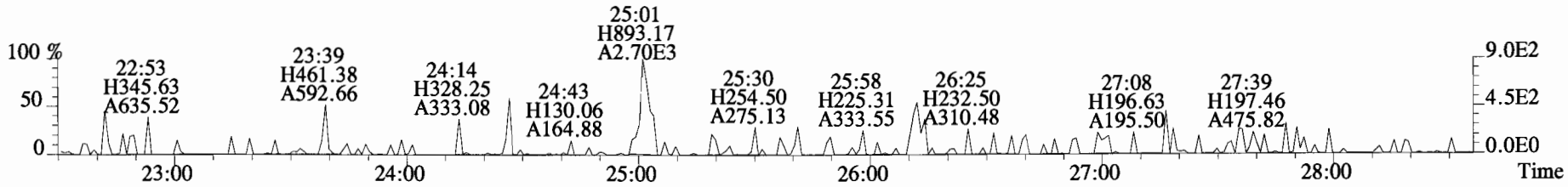
Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	*	*		643	0.857
Total Penta-Dioxins	*	*		638	0.692
Total Hexa-Dioxins	*	*		631	1.27
Total Hepta-Dioxins	*	*		639	1.23
Total Tetra-Furans	*	*		594	0.644
Total Penta-Furans	0.0000	0.0000		601	0.753
Total Hexa-Furans	*	*		577	0.525
Total Hepta-Furans	*	*		517	0.528

									Rec	Qual
IS	13C-2,3,7,8-TCDD	2.17e+07	0.79	y	1.06	26:59	1.021	1601.4	80.1	
IS	13C-1,2,3,7,8-PeCDD	2.18e+07	0.62	y	1.18	31:26	1.190	1450.1	72.5	
IS	13C-1,2,3,4,7,8-HxCDD	1.52e+07	1.25	y	0.72	34:45	1.014	1538.3	76.9	
IS	13C-1,2,3,6,7,8-HxCDD	1.55e+07	1.24	y	0.74	34:51	1.017	1535.3	76.8	
IS	13C-1,2,3,7,8,9-HxCDD	1.75e+07	1.24	y	0.85	35:09	1.026	1487.2	74.4	
IS	13C-1,2,3,4,6,7,8-HpCDD	1.38e+07	1.06	y	0.65	38:35	1.126	1536.4	76.8	
IS	13C-OCDD	2.37e+07	0.89	y	0.76	41:54	1.223	2253.6	56.3	
IS	13C-2,3,7,8-TCDF	2.86e+07	0.76	y	0.92	26:12	0.992	1567.9	78.4	
IS	13C-1,2,3,7,8-PeCDF	2.70e+07	1.56	y	0.92	30:16	1.146	1474.1	73.7	
IS	13C-2,3,4,7,8-PeCDF	2.78e+07	1.58	y	0.93	31:09	1.179	1504.3	75.2	
IS	13C-1,2,3,4,7,8-HxCDF	2.07e+07	0.51	y	0.98	33:51	0.988	1534.5	76.7	
IS	13C-1,2,3,6,7,8-HxCDF	2.19e+07	0.52	y	1.08	33:58	0.991	1467.4	73.4	
IS	13C-2,3,4,6,7,8-HxCDF	2.06e+07	0.51	y	1.03	34:35	1.009	1459.0	72.9	
IS	13C-1,2,3,7,8,9-HxCDF	1.83e+07	0.50	y	0.86	35:33	1.037	1544.1	77.2	
IS	13C-1,2,3,4,6,7,8-HpCDF	1.41e+07	0.44	y	0.72	37:23	1.091	1419.0	70.9	
IS	13C-1,2,3,4,7,8,9-HpCDF	1.43e+07	0.45	y	0.70	39:09	1.142	1489.6	74.5	
IS	13C-OCDF	2.71e+07	0.89	y	0.85	42:08	1.230	2321.8	58.0	
C/Up	37Cl-2,3,7,8-TCDD	1.05e+07			1.12	26:60	1.022	734.36	91.8	
RS/RT	13C-1,2,3,4-TCDD	2.55e+07	0.80	y	1.00	26:25	*	2000.0		
RS	13C-1,2,3,4-TCDF	3.97e+07	0.76	y	1.00	25:01	*	2000.0		
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.75e+07	0.52	y	1.00	34:16	*	2000.0		

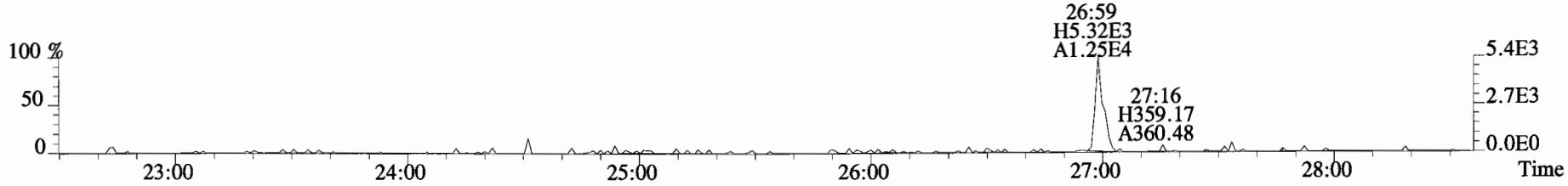
Integrations by Analyst: [illegible] Date: 2/1/15

Reviewed by Analyst: CT Date: 2/2/15

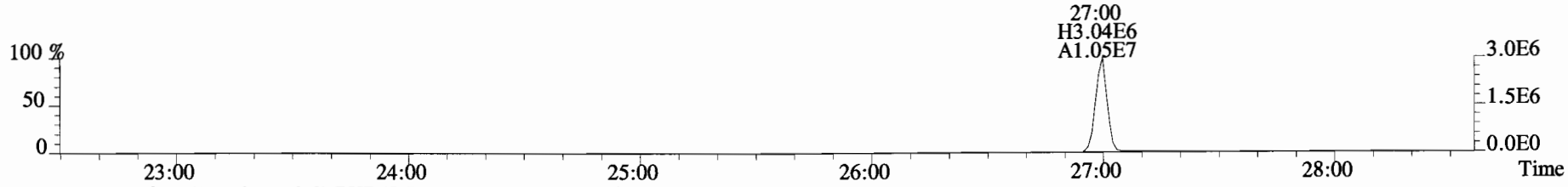
File:150130D2 #1-551 Acq:31-JAN-2015 00:37:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BLK1 Method Blank 1 Exp:OCDD_DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



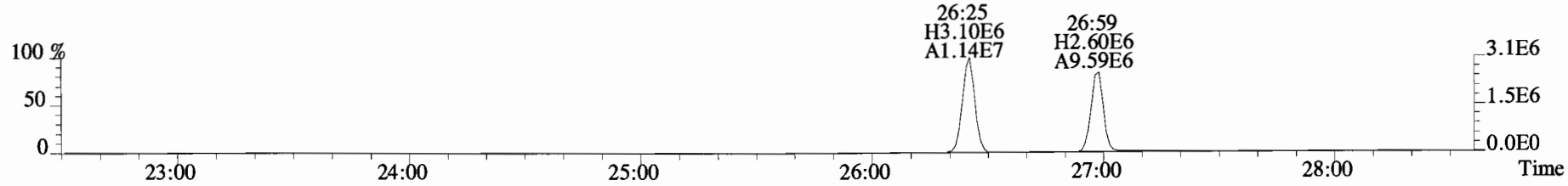
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



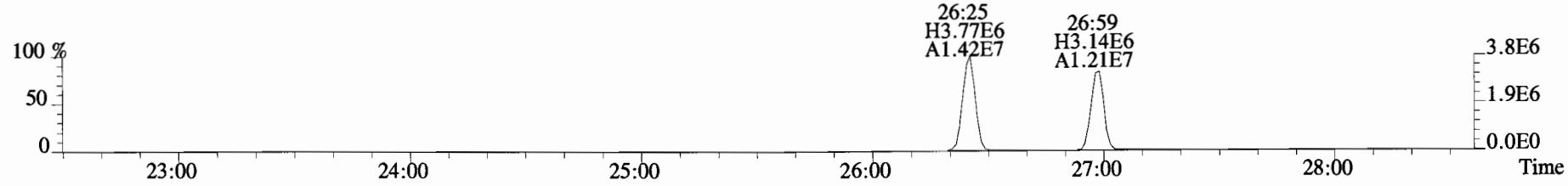
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



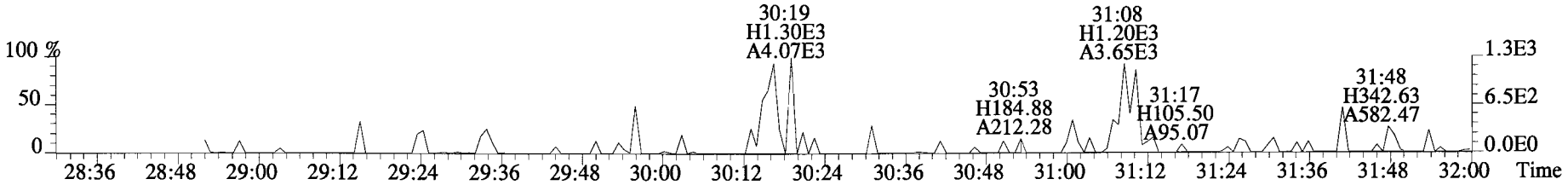
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



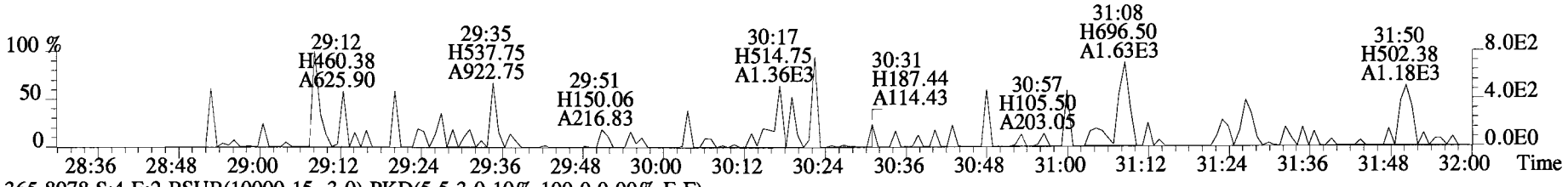
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



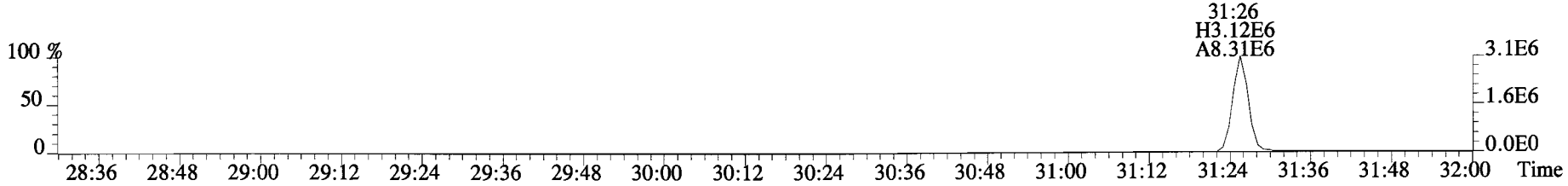
File:150130D2 #1-251 Acq:31-JAN-2015 00:37:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BLK1 Method Blank 1 Exp:OCDD_DB5
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



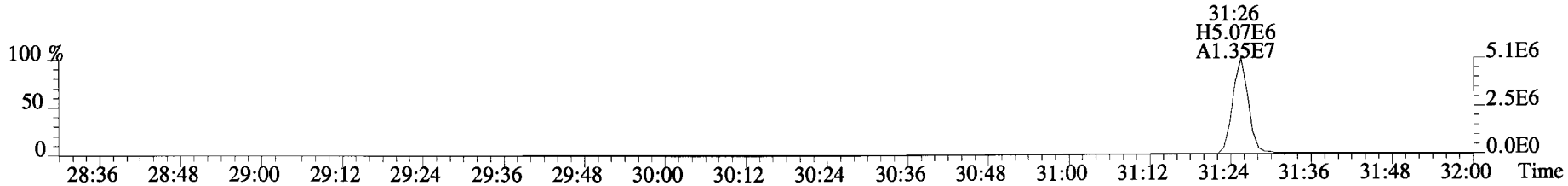
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



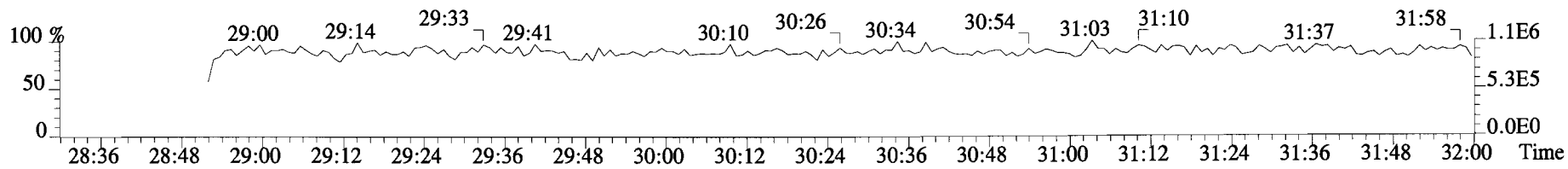
365.8978 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



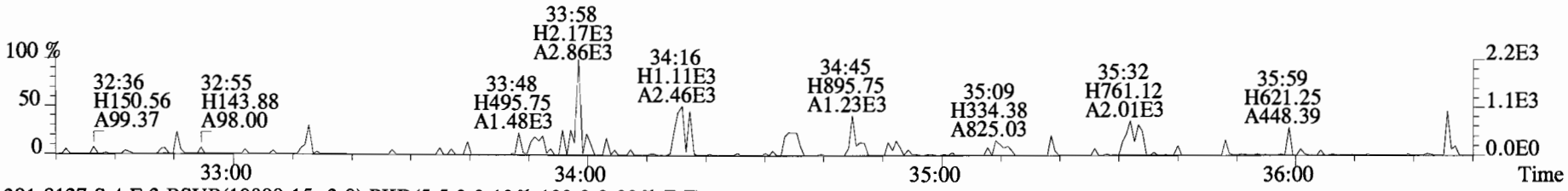
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



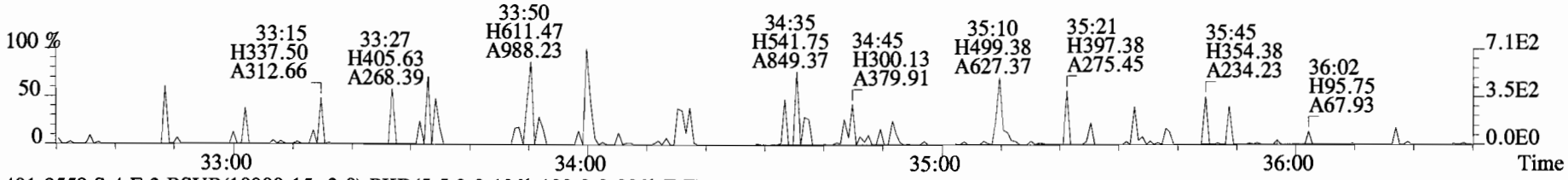
366.9792 S:4 F:2



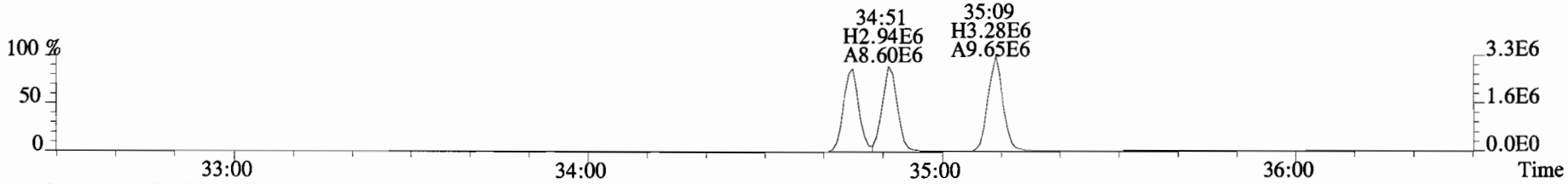
File:150130D2 #1-393 Acq:31-JAN-2015 00:37:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BLK1 Method Blank 1 Exp:OCDD_DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



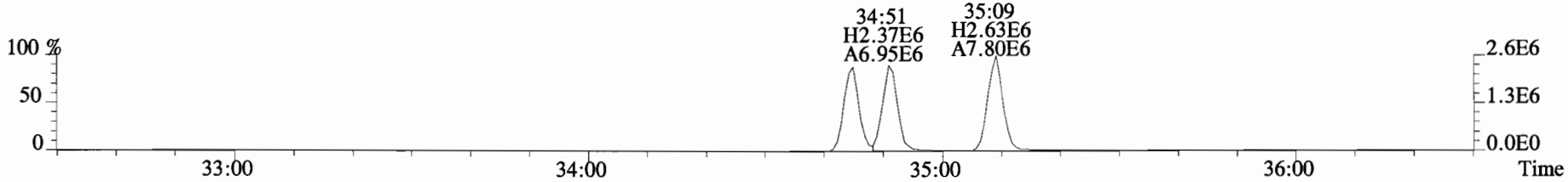
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



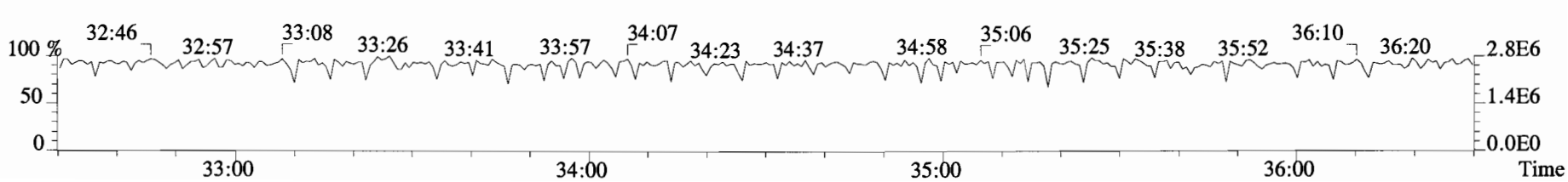
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



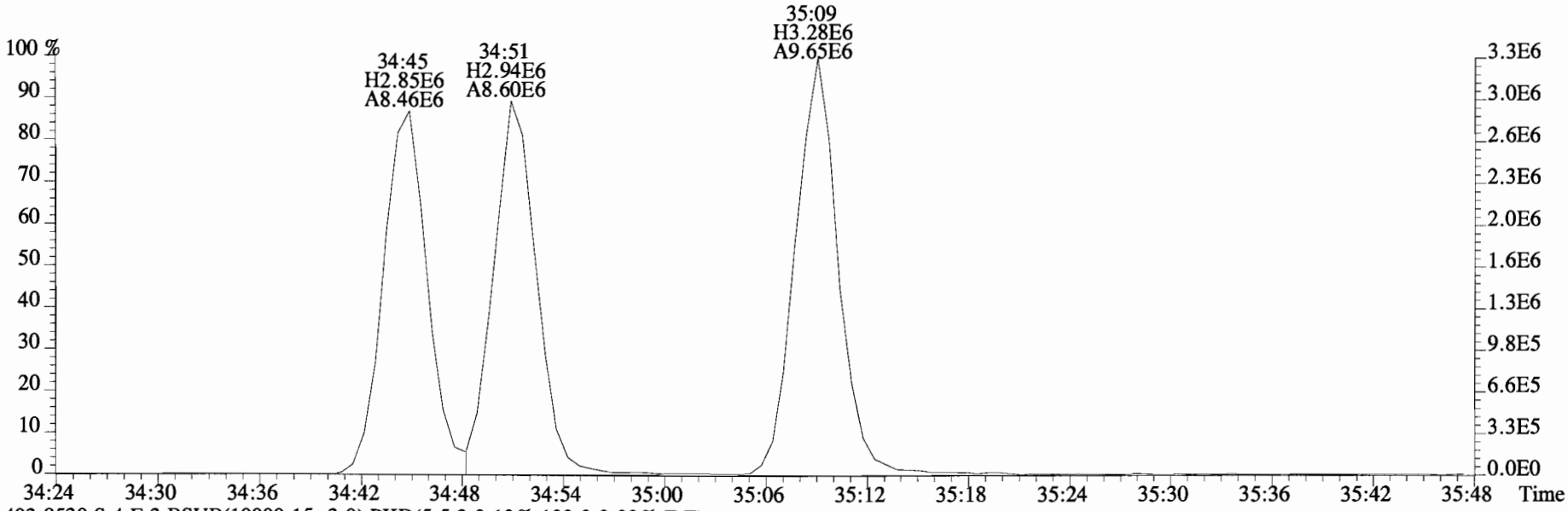
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



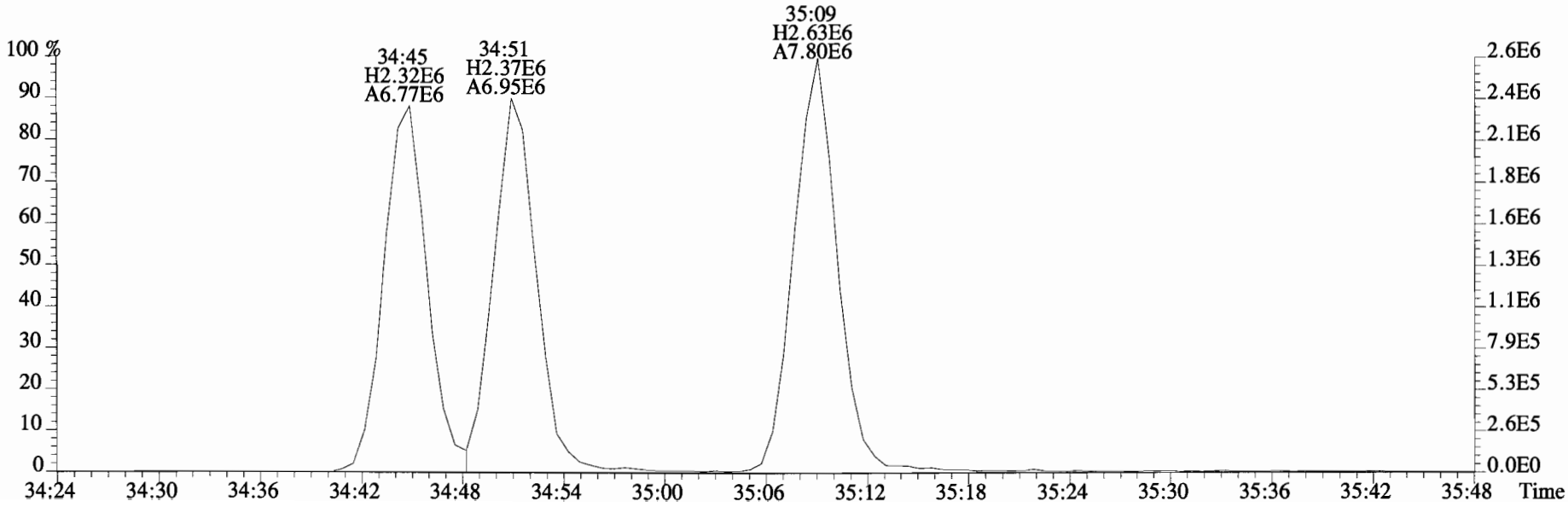
380.9760 S:4 F:3



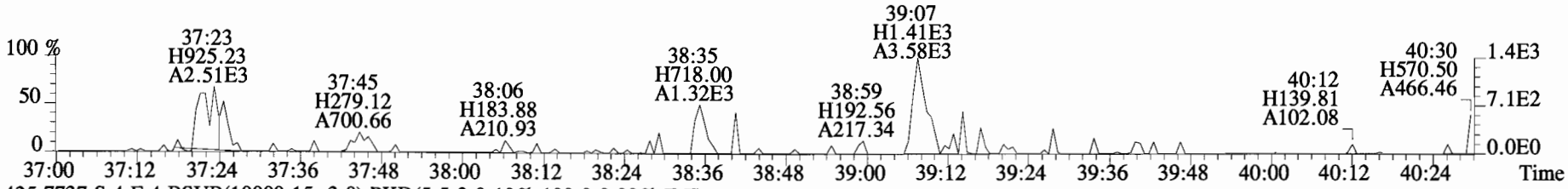
File:150130D2 #1-393 Acq:31-JAN-2015 00:37:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BLK1 Method Blank 1 Exp:OCDD_DB5
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



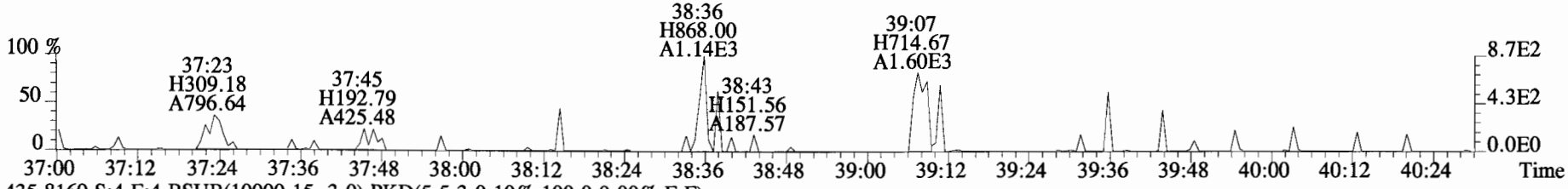
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



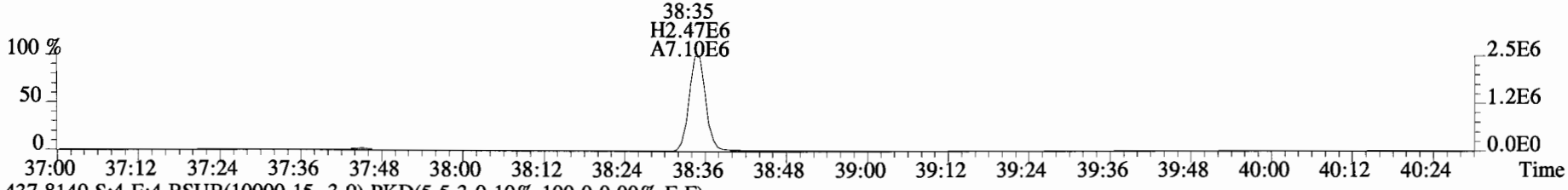
File:150130D2 #1-325 Acq:31-JAN-2015 00:37:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BLK1 Method Blank 1 Exp:OCDD_DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



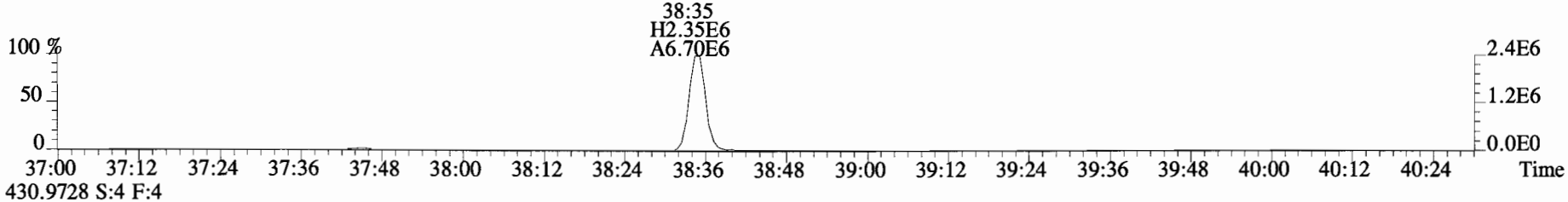
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



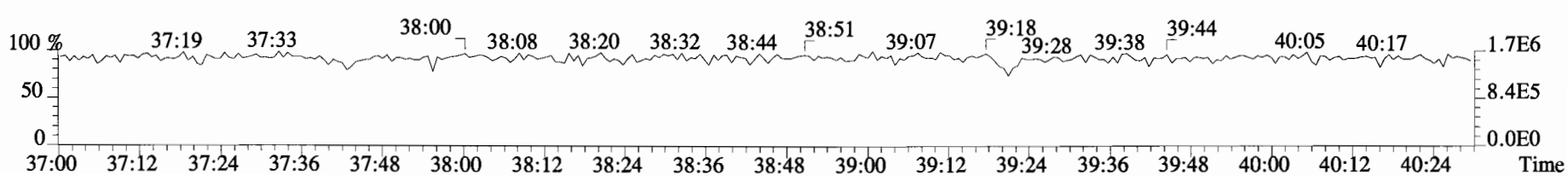
435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



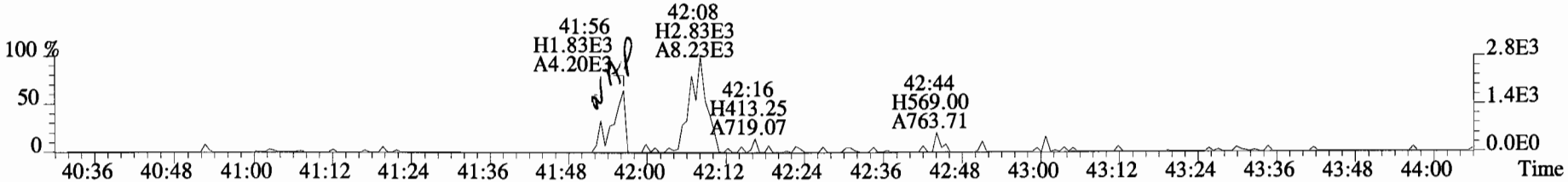
437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



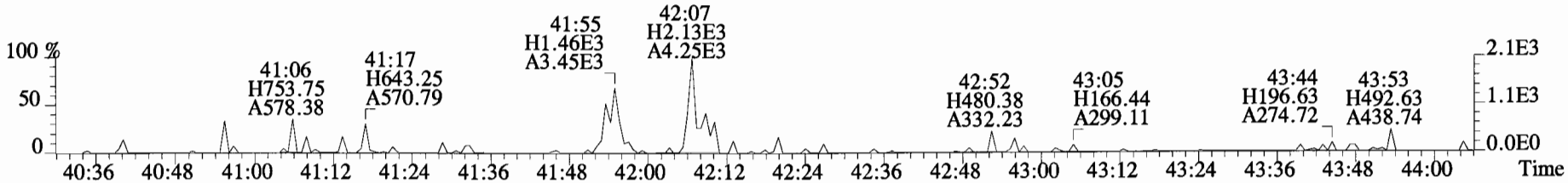
430.9728 S:4 F:4



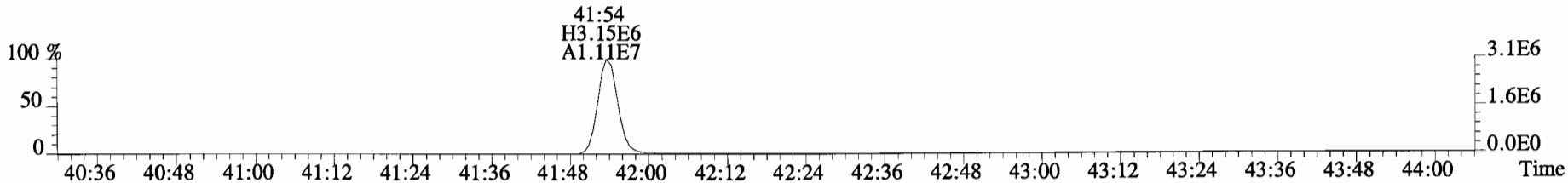
File:150130D2 #1-389 Acq:31-JAN-2015 00:37:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BLK1 Method Blank 1 Exp:OCDD_DB5
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



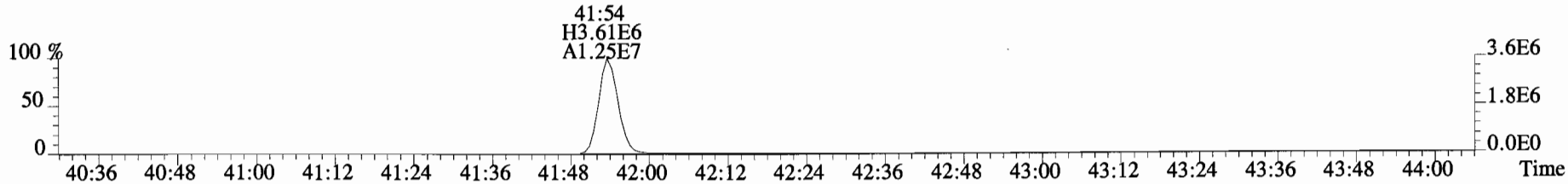
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



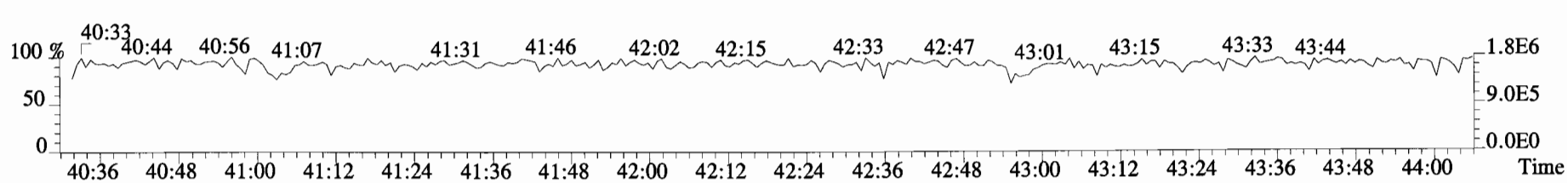
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

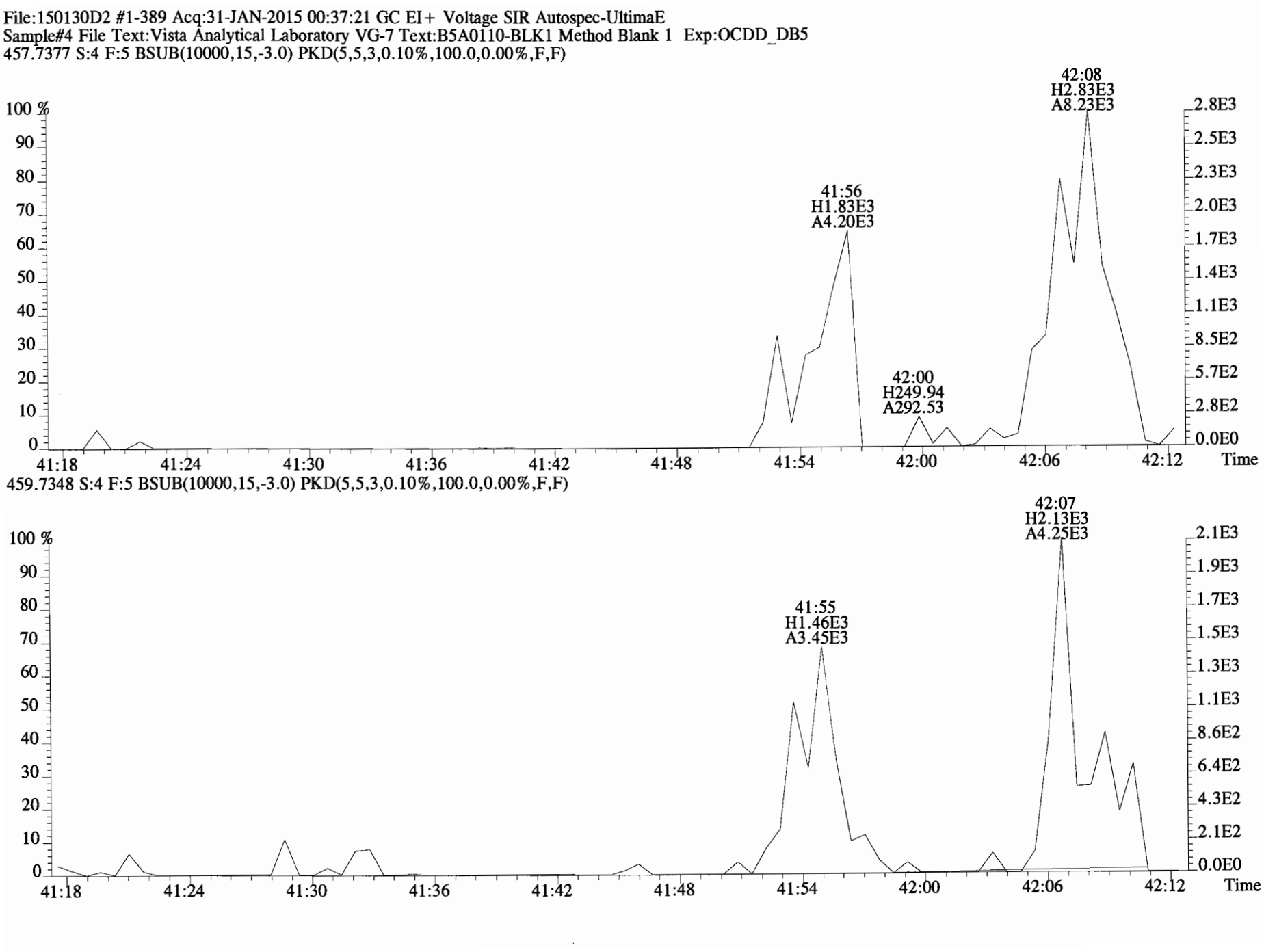


471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

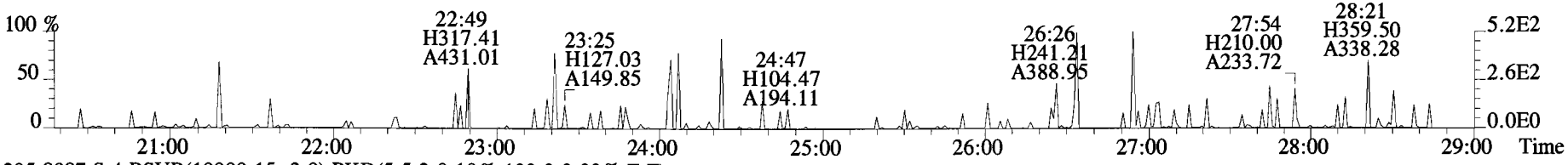


454.9728 S:4 F:5

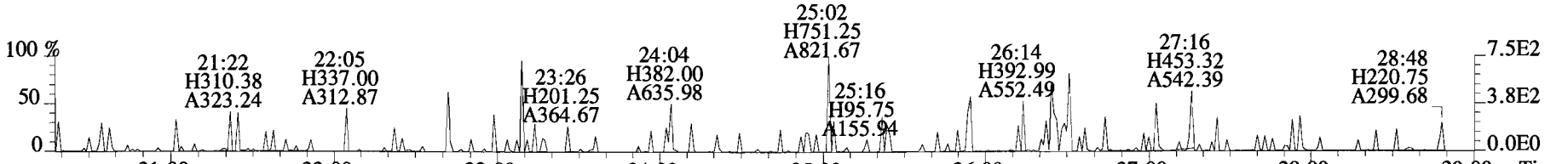



File:150130D2 #1-389 Acq:31-JAN-2015 00:37:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BLK1 Method Blank 1 Exp:OCDD_DB5
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
42:08
H2.83E3
A8.23E3
41:56
H1.83E3
A4.20E3
42:00
H249.94
A292.53
100 %
90
80
70
60
50
40
30
20
10
0
2.8E3
2.5E3
2.3E3
2.0E3
1.7E3
1.4E3
1.1E3
8.5E2
5.7E2
2.8E2
0.0E0
41:18
41:24
41:30
41:36
41:42
41:48
41:54
42:00
42:06
42:12
Time
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
42:07
H2.13E3
A4.25E3
41:55
H1.46E3
A3.45E3
100 %
90
80
70
60
50
40
30
20
10
0
2.1E3
1.9E3
1.7E3
1.5E3
1.3E3
1.1E3
8.6E2
6.4E2
4.3E2
2.1E2
0.0E0
41:18
41:24
41:30
41:36
41:42
41:48
41:54
42:00
42:06
42:12
Time

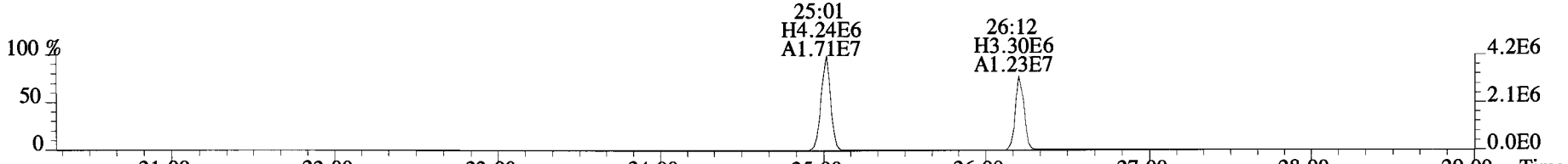
File:150130D2 #1-551 Acq:31-JAN-2015 00:37:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BLK1 Method Blank 1 Exp:OCDD_DB5
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



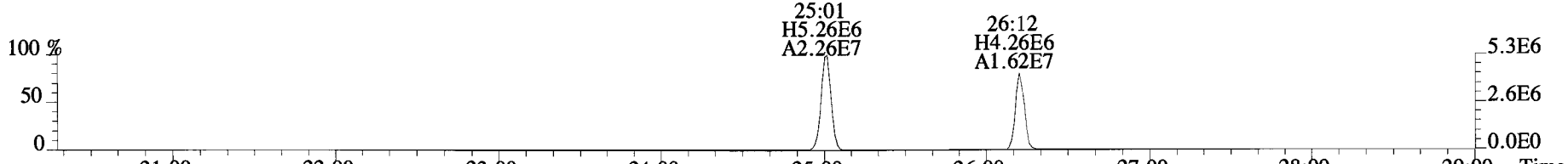
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



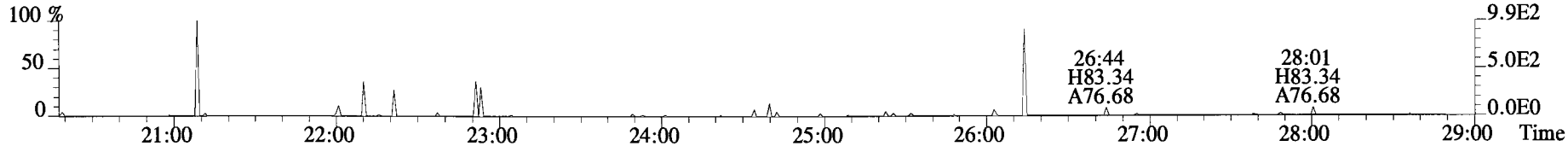
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



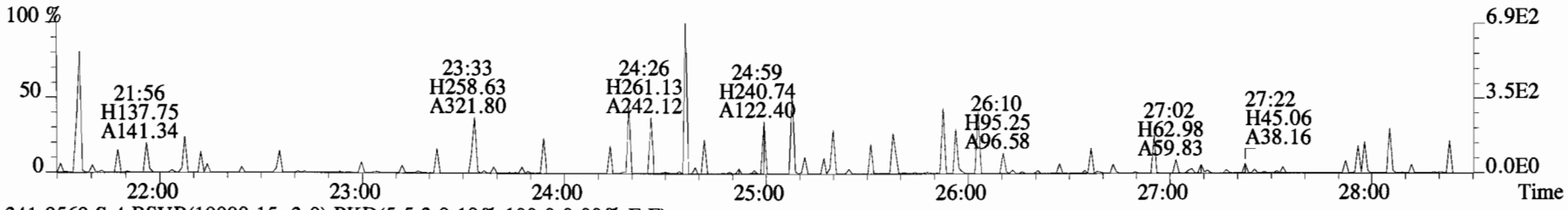
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



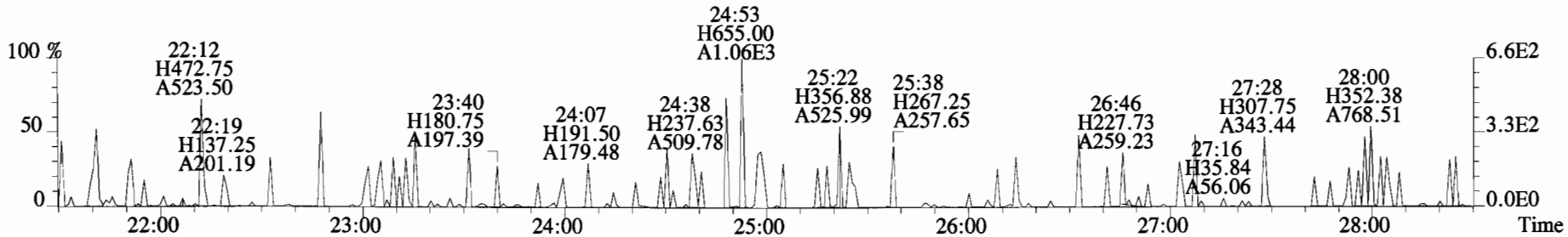
375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



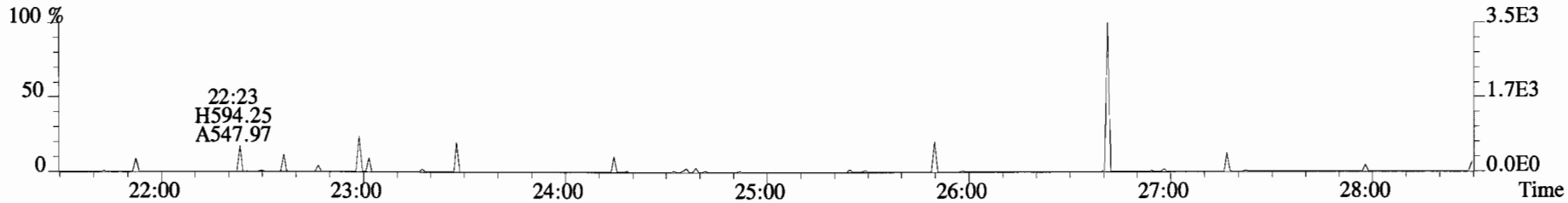
File:150130D2 #1-551 Acq:31-JAN-2015 00:37:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BLK1 Method Blank 1 Exp:OCDD_DB5
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



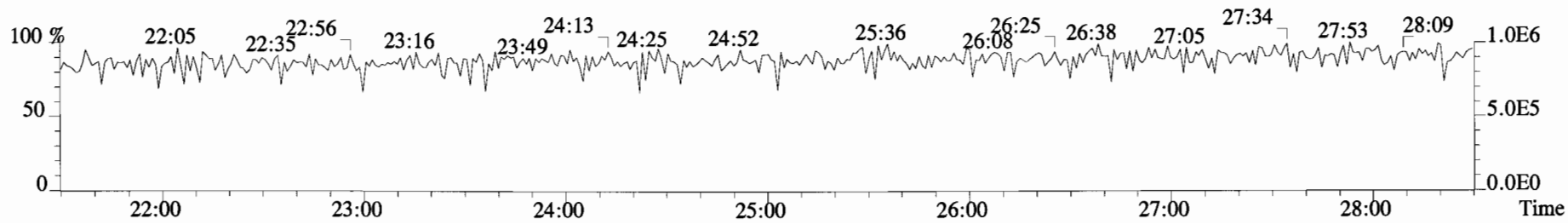
341.8568 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



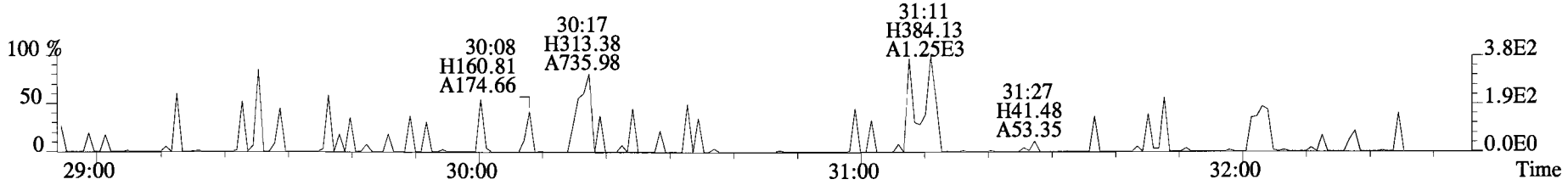
409.7974 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



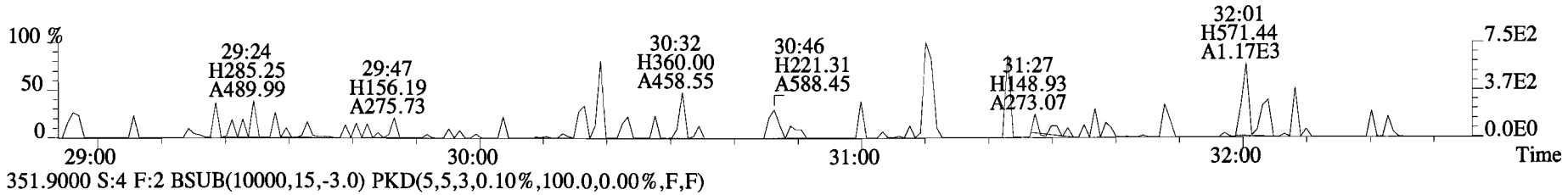
316.9824 S:4



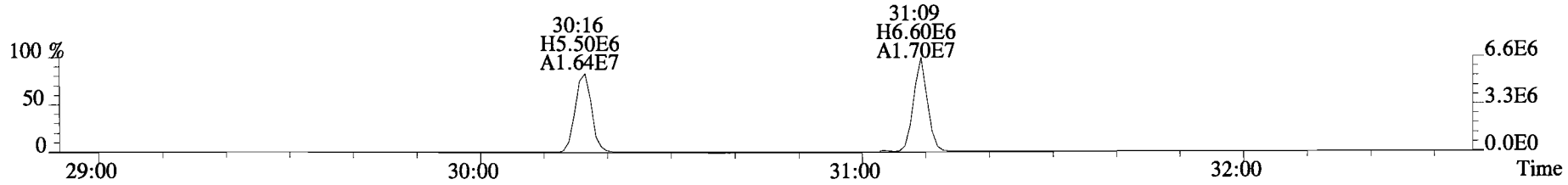
File:150130D2 #1-251 Acq:31-JAN-2015 00:37:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BLK1 Method Blank 1 Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



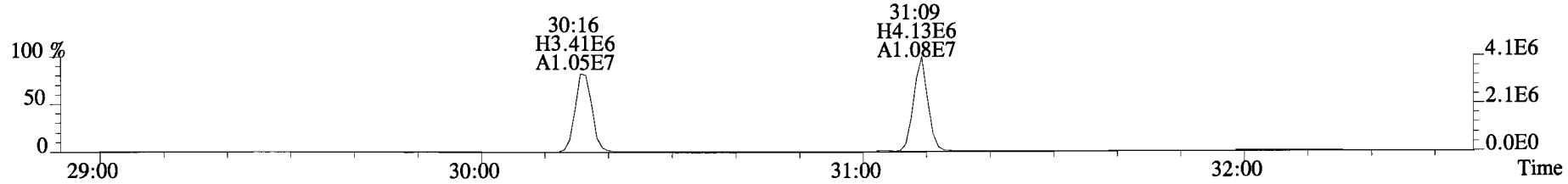
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



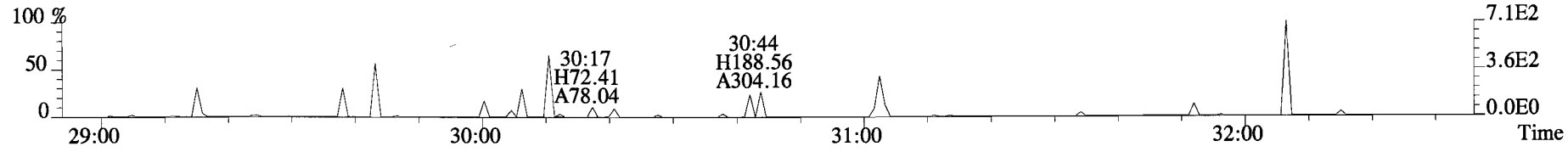
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



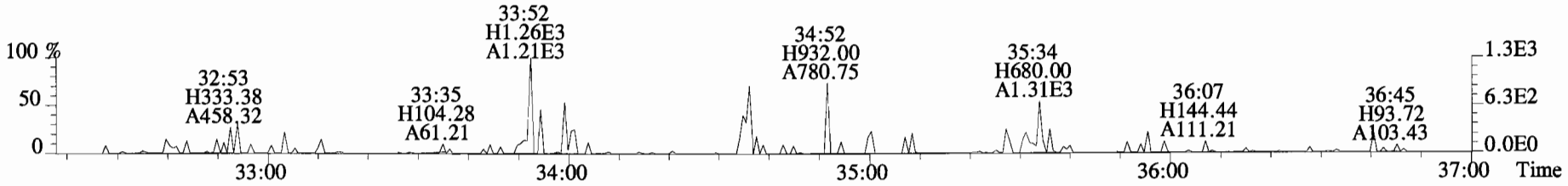
353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



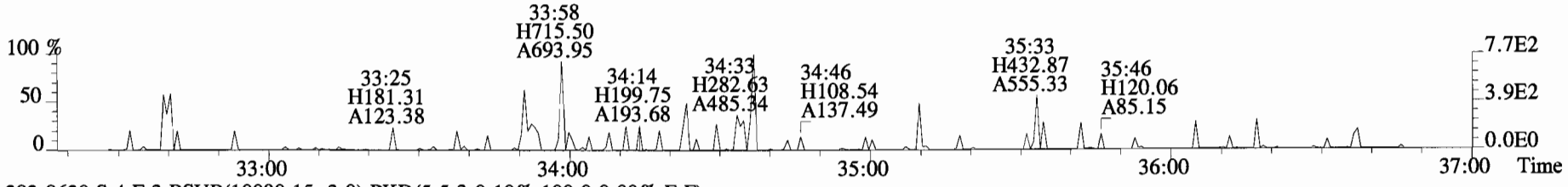
409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



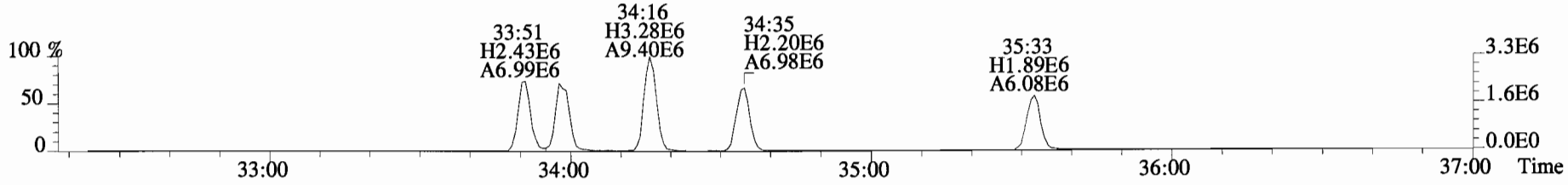
File:150130D2 #1-393 Acq:31-JAN-2015 00:37:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BLK1 Method Blank 1 Exp:OCDD_DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



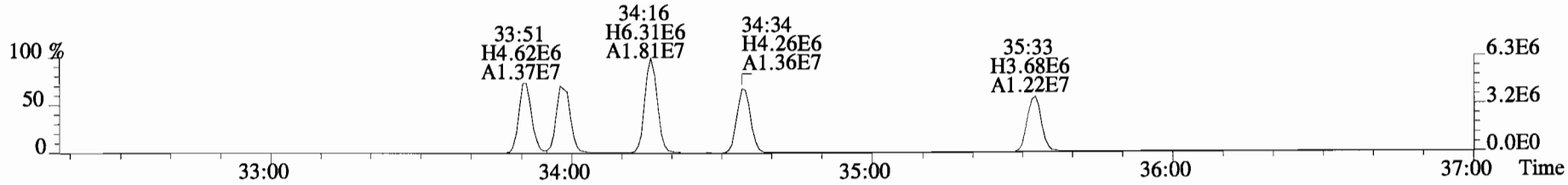
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



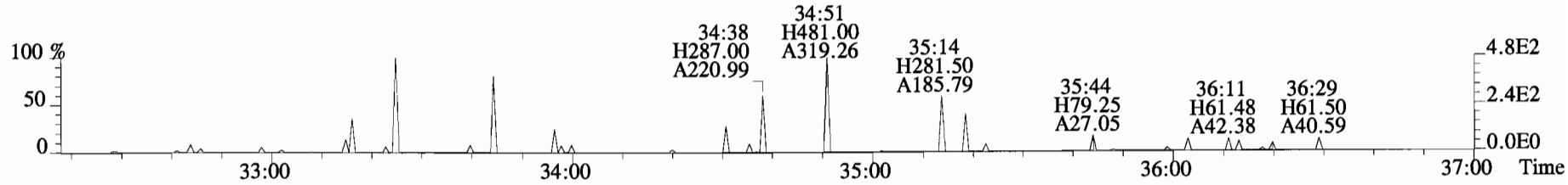
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



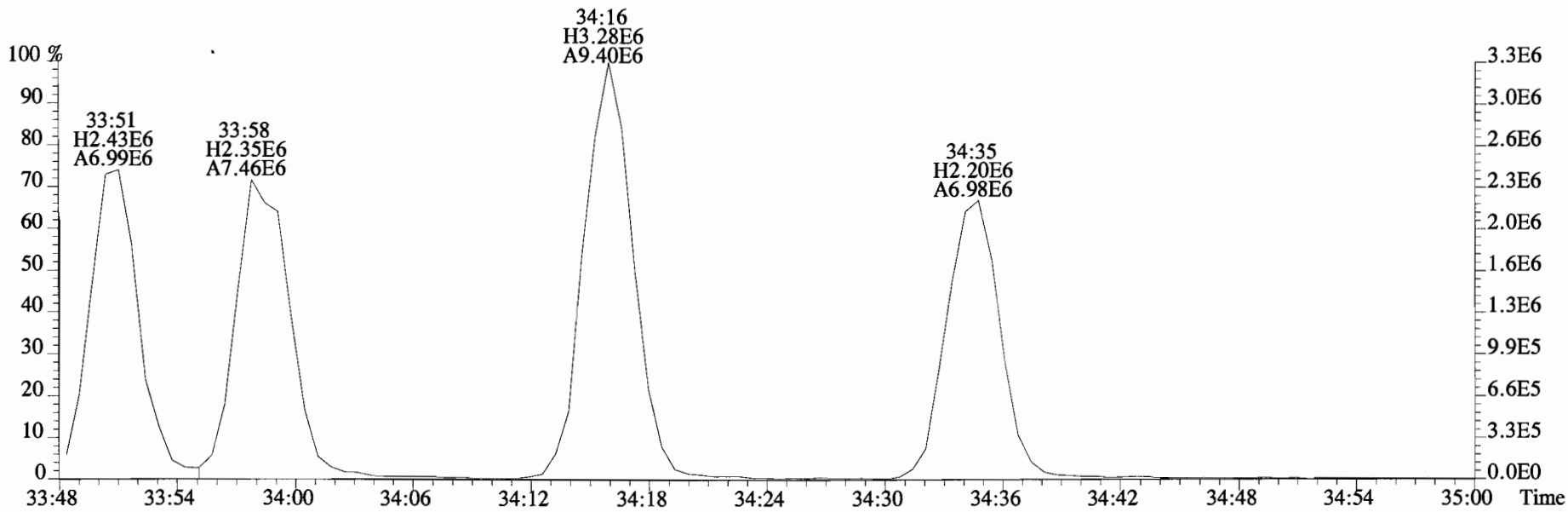
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



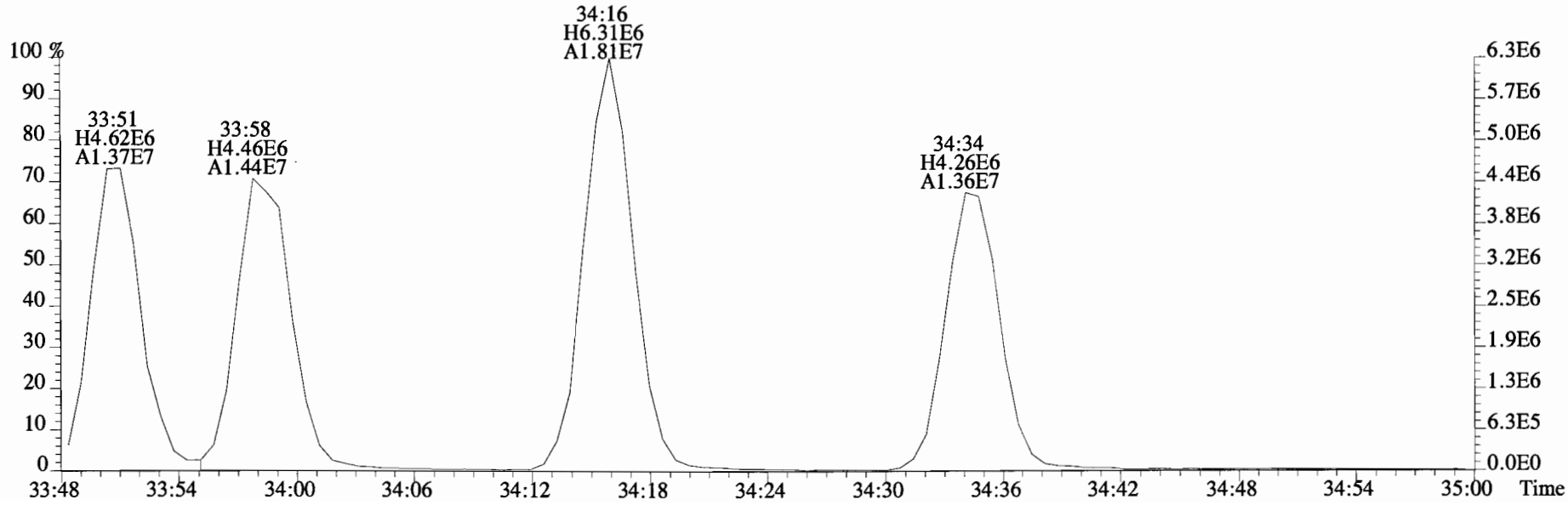
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



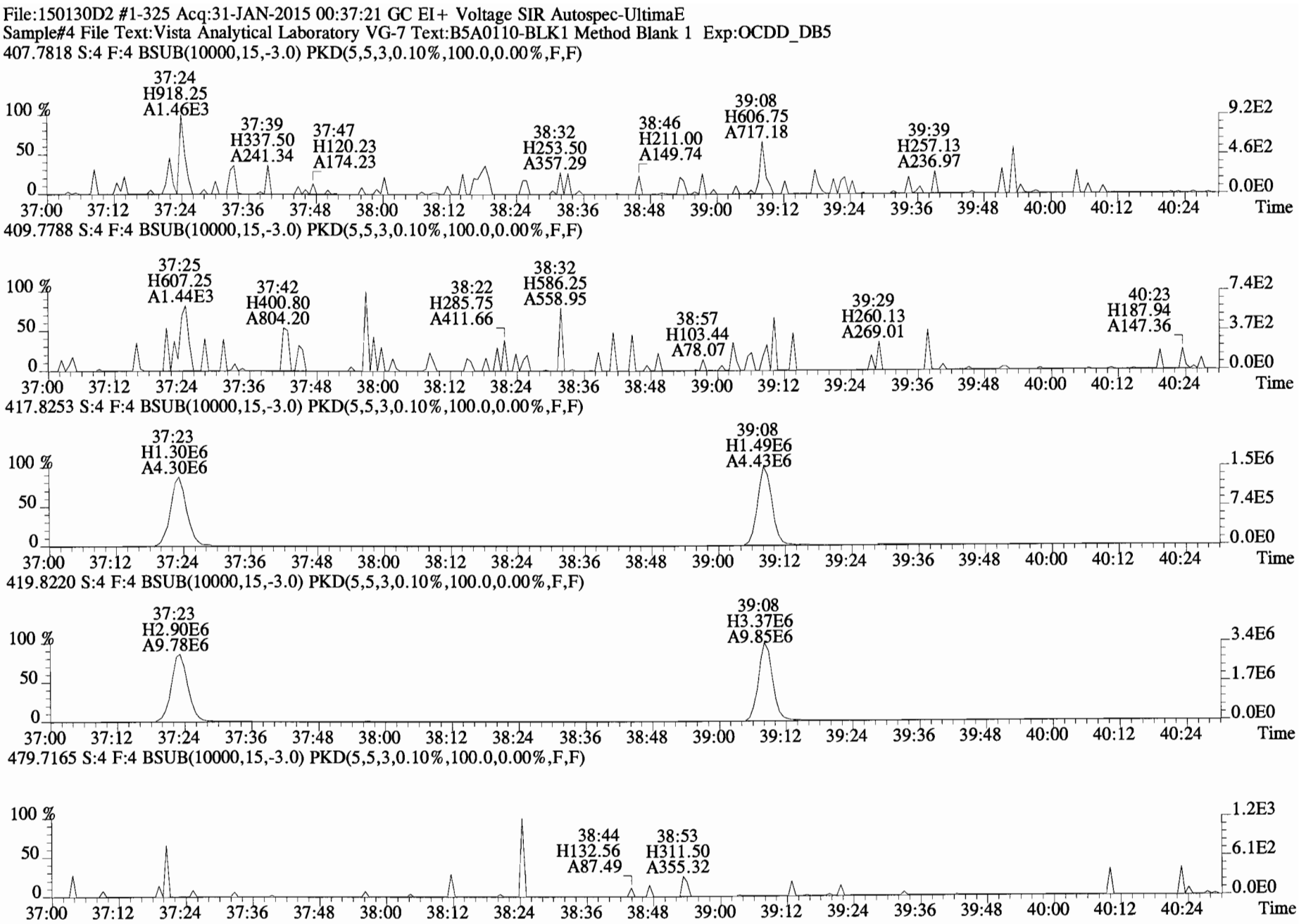
File:150130D2 #1-393 Acq:31-JAN-2015 00:37:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BLK1 Method Blank 1 Exp:OCDD_DB5
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

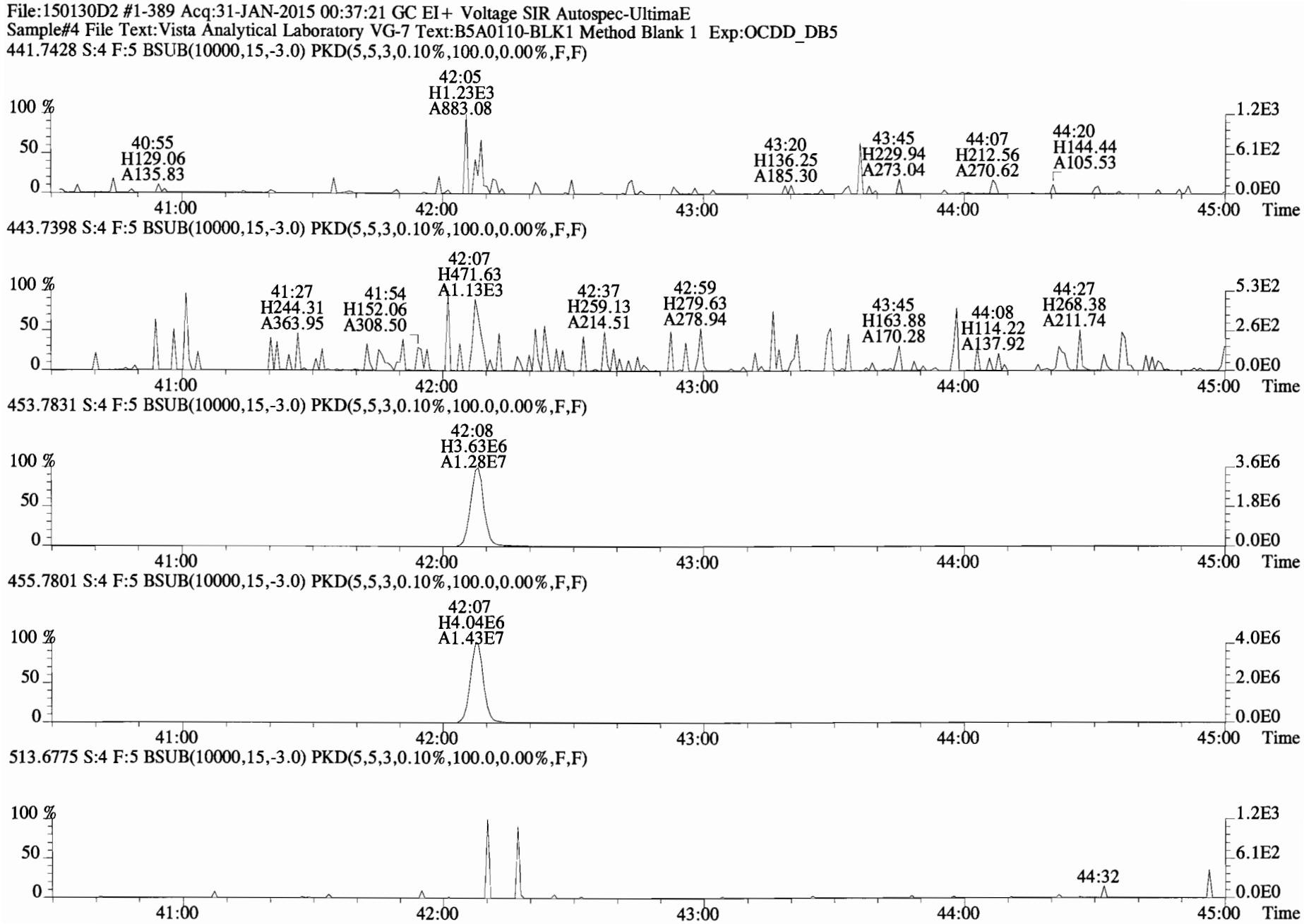


385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:150130D2 #1-325 Acq:31-JAN-2015 00:37:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BLK1 Method Blank 1 Exp:OCDD_DB5




File:150130D2 #1-389 Acq:31-JAN-2015 00:37:21 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BLK1 Method Blank 1 Exp:OCDD_DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
42:05 H1.23E3 A883.08
40:55 H129.06 A135.83
43:20 H136.25 A185.30
43:45 H229.94 A273.04
44:07 H212.56 A270.62
44:20 H144.44 A105.53
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
42:07 H471.63 A1.13E3
41:27 H244.31 A363.95
41:54 H152.06 A308.50
42:37 H259.13 A214.51
42:59 H279.63 A278.94
43:45 H163.88 A170.28
44:08 H114.22 A137.92
44:27 H268.38 A211.74
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
42:08 H3.63E6 A1.28E7
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
42:07 H4.04E6 A1.43E7
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)
44:32
100 %
50
0
41:00
42:00
43:00
44:00
45:00
Time
1.2E3
6.1E2
0.0E0
5.3E2
2.6E2
3.6E6
1.8E6
4.0E6
2.0E6

FORM 8A

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B5A0110-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 150130D2-2

Ext. Date: 1-29-15 Shift: Day Analysis Date: 30-JAN-15 Time: 23:00:58

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

NATIVE ANALYTES	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
2,3,7,8-TCDD	10	8.08	6.7 - 15.8 7.3 - 14.6 (2)
1,2,3,7,8-PeCDD	50	43.9	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	46.9	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	48.3	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	47.2	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	46.2	35.0 - 70.0
OCDD	100	95.3	78.0 - 144.0
2,3,7,8-TCDF	10	8.48	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	44.7	40.0 - 67.0
2,3,4,7,8-PeCDF	50	45.4	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	48.2	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	47.9	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	48.7	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	47.4	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	48.3	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	49.3	39.0 - 69.0
OCDF	100	94.5	63.0 - 170.0

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. 10/94

(2) Contract-required concentration limits for OPR as specified in Table 6a, Method 1613. 10/94

Analyst: 

Date: 2/11/15

FORM 8B

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B5A0110-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 150130D2-2

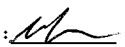
Ext. Date: 1-29-15 Shift: Day Analysis Date: 30-JAN-15 Time: 23:00:58

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

LABELED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
13C-2,3,7,8-TCDD	100	74.3	20.0 - 175.0
			25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	66.7	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	74.7	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	75.1	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	74.4	21.0 - 193.0
13C-1,2,3,4,6,7,8-HpCDD	100	76.9	26.0 - 166.0
13C-OCDD	200	113	26.0 - 397.0
13C-2,3,7,8-TCDF	100	77.8	22.0 - 152.0
			26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	66.3	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	73.0	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	72.7	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	72.2	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	70.8	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	73.0	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	72.8	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	71.5	20.0 - 186.0
13C-OCDF	200	115	26.0 - 397.0
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	39.8	12.4 - 76.4

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. 10/94

(2) Contract-required concentration limits for OPR as specified in Table 6a, Method 1613. 10/94

Analyst: 

Date 2/1/15

Client ID: OPR | Filename: 150130D2 S:2 Acq:30-JAN-15 23:00:58 | ConCal: ST150130D2-1
Lab ID: B5A0110-BS1 | GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.000 | EndCAL: NA

	Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	1.95e+06	0.76 y	1.17	26:60	1.001	161.59		*	2.5	*
	1,2,3,7,8-PeCDD	8.21e+06	0.61 y	0.91	31:27	1.001	877.56		*	2.5	*
	1,2,3,4,7,8-HxCDD	7.44e+06	1.23 y	1.08	34:46	1.001	938.78		*	2.5	*
	1,2,3,6,7,8-HxCDD	7.77e+06	1.25 y	1.06	34:53	1.001	966.56		*	2.5	*
	1,2,3,7,8,9-HxCDD	7.62e+06	1.26 y	0.93	35:10	1.000	943.37		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	7.01e+06	1.04 y	1.10	38:36	1.000	924.80		*	2.5	*
	OCDD	1.07e+07	0.88 y	0.95	41:55	1.000	1906.3		*	2.5	*
	2,3,7,8-TCDF	2.60e+06	0.76 y	1.07	26:14	1.001	169.62		*	2.5	*
	1,2,3,7,8-PeCDF	1.18e+07	1.60 y	1.07	30:17	1.000	893.82		*	2.5	*
	2,3,4,7,8-PeCDF	1.28e+07	1.56 y	1.03	31:10	1.000	907.91		*	2.5	*
	1,2,3,4,7,8-HxCDF	1.30e+07	1.31 y	1.38	33:52	1.001	963.53		*	2.5	*
	1,2,3,6,7,8-HxCDF	1.28e+07	1.31 y	1.26	33:60	1.000	957.06		*	2.5	*
	2,3,4,6,7,8-HxCDF	1.25e+07	1.31 y	1.29	34:36	1.001	974.53		*	2.5	*
	1,2,3,7,8,9-HxCDF	9.65e+06	1.32 y	1.19	35:34	1.000	948.03		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	1.12e+07	1.09 y	1.61	37:25	1.000	965.87		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	1.03e+07	1.08 y	1.53	39:10	1.000	986.89		*	2.5	*
	OCDF	1.38e+07	0.93 y	1.10	42:09	1.000	1890.8		*	2.5	*
IS	13C-2,3,7,8-TCDD	2.06e+07	0.80 y	1.06	26:59	1.021	1486.1				
IS	13C-1,2,3,7,8-PeCDD	2.06e+07	0.60 y	1.18	31:26	1.190	1334.8				
IS	13C-1,2,3,4,7,8-HxCDD	1.47e+07	1.26 y	0.72	34:45	1.014	1494.3				
IS	13C-1,2,3,6,7,8-HxCDD	1.51e+07	1.25 y	0.74	34:52	1.017	1501.8				
IS	13C-1,2,3,7,8,9-HxCDD	1.73e+07	1.25 y	0.85	35:10	1.026	1488.5				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.37e+07	1.07 y	0.65	38:35	1.126	1538.5				
IS	13C-OCDD	2.37e+07	0.88 y	0.76	41:54	1.223	2268.1				
IS	13C-2,3,7,8-TCDF	2.86e+07	0.78 y	0.92	26:13	0.992	1555.2				
IS	13C-1,2,3,7,8-PeCDF	2.45e+07	1.57 y	0.92	30:16	1.146	1325.1				
IS	13C-2,3,4,7,8-PeCDF	2.73e+07	1.62 y	0.93	31:09	1.179	1459.9				
IS	13C-1,2,3,4,7,8-HxCDF	1.95e+07	0.51 y	0.98	33:51	0.988	1454.2				
IS	13C-1,2,3,6,7,8-HxCDF	2.13e+07	0.51 y	1.08	33:59	0.991	1443.0				
IS	13C-2,3,4,6,7,8-HxCDF	1.98e+07	0.52 y	1.03	34:35	1.009	1416.0				
IS	13C-1,2,3,7,8,9-HxCDF	1.72e+07	0.49 y	0.86	35:33	1.037	1460.9				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.44e+07	0.44 y	0.72	37:24	1.091	1456.5				
IS	13C-1,2,3,4,7,8,9-HpCDF	1.36e+07	0.44 y	0.70	39:09	1.142	1430.7				
IS	13C-OCDF	2.66e+07	0.89 y	0.85	42:08	1.229	2293.9				
C/Up	37Cl-2,3,7,8-TCDD	1.17e+07		1.12	26:60	1.022	796.78				
RS/RT	13C-1,2,3,4-TCDD	2.62e+07	0.79 y	1.00	26:25	*	2000.0				
RS	13C-1,2,3,4-TCDF	4.01e+07	0.78 y	1.00	25:01	*	2000.0				
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.73e+07	0.53 y	1.00	34:17	*	2000.0				

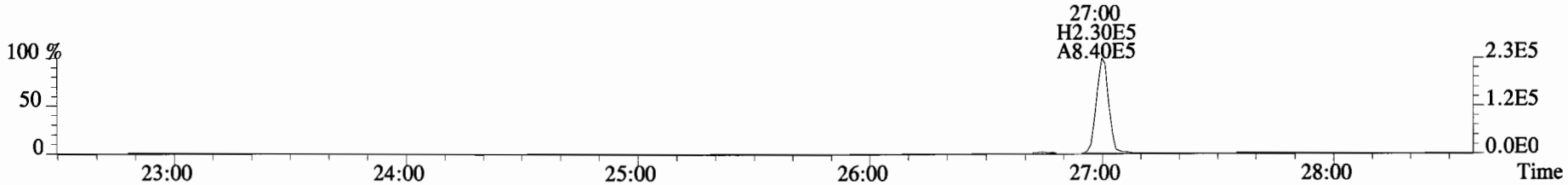
Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	168	168		*	*
Total Penta-Dioxins	879	882		*	*
Total Hexa-Dioxins	2850	2860		*	*
Total Hepta-Dioxins	925	934		*	*
Total Tetra-Furans	171	172		*	*
Total Penta-Furans	1810.9	1832.0		*	*
Total Hexa-Furans	3850	3860		*	*
Total Hepta-Furans	1960	1980		*	*

	Rec	Qual
IS	74.3	
IS	66.7	
IS	74.7	
IS	75.1	
IS	74.4	
IS	76.9	
IS	56.7	
IS	77.8	
IS	66.3	
IS	73.0	
IS	72.7	
IS	72.2	
IS	70.8	
IS	73.0	
IS	72.8	
IS	71.5	
IS	57.3	
C/Up	99.6	

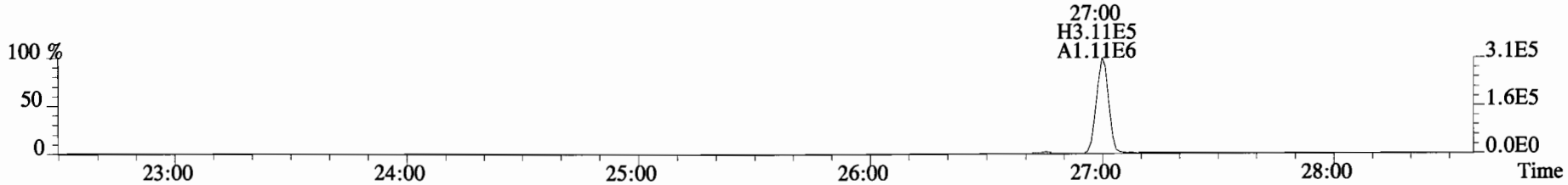
Integrations by Analyst: [signature] Date: 2/1/15

Reviewed by Analyst: CT Date: 2/2/15

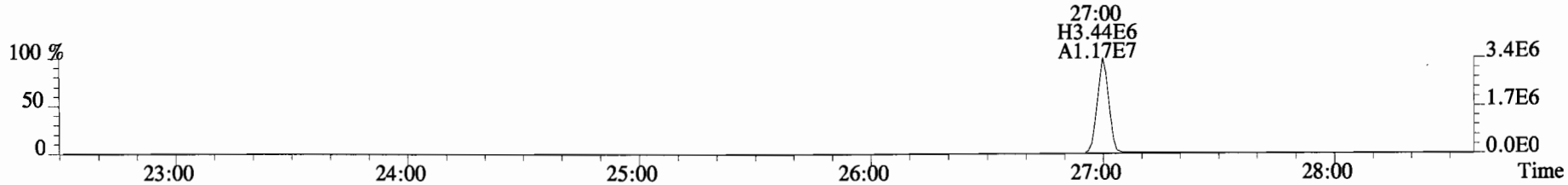
File:150130D2 #1-551 Acq:30-JAN-2015 23:00:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BS1 OPR 1 Exp:OCDD_DB5
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



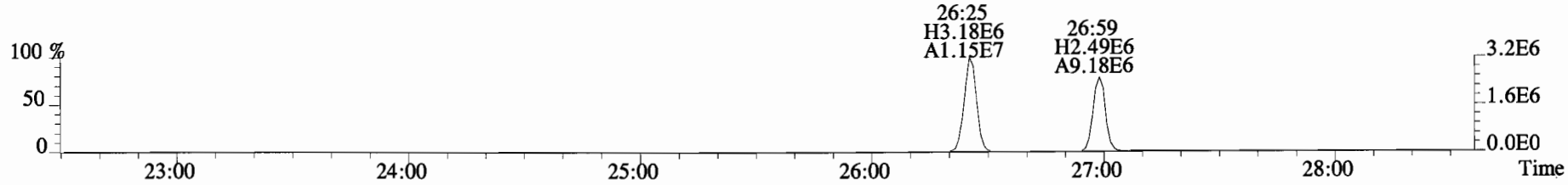
321.8936 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



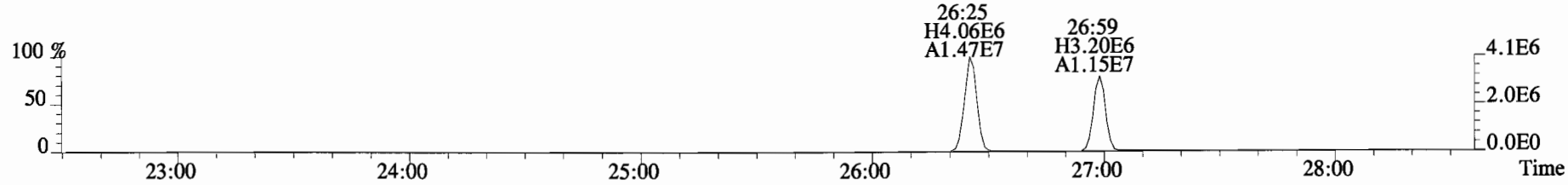
327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



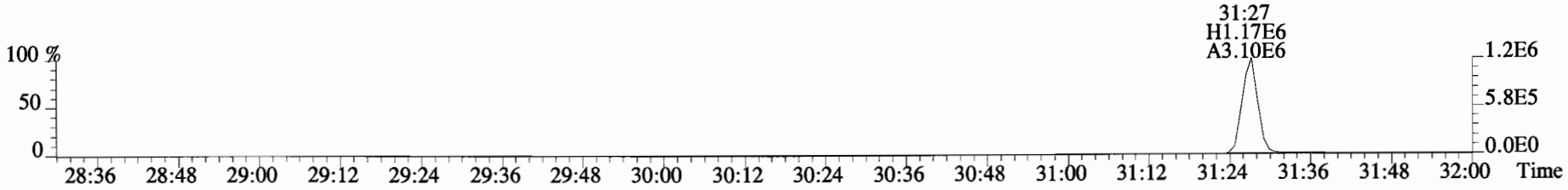
331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



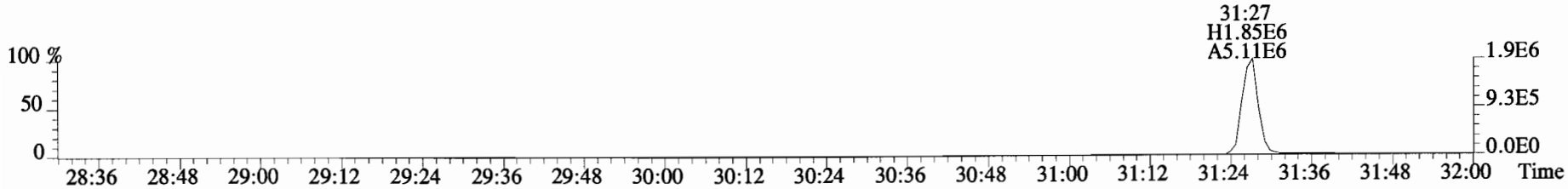
333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



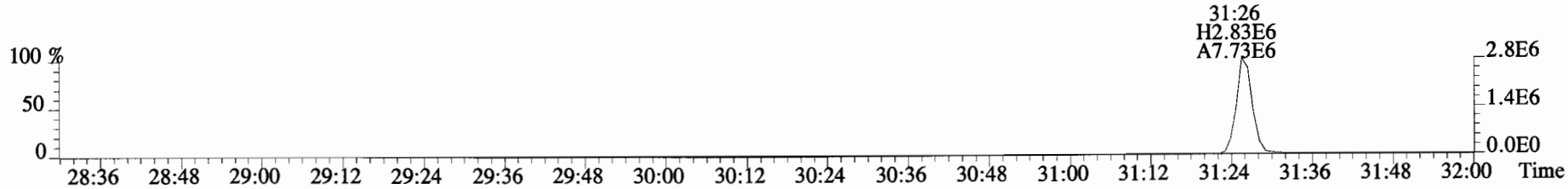
File:150130D2 #1-251 Acq:30-JAN-2015 23:00:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BS1 OPR 1 Exp:OCDD_DB5
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



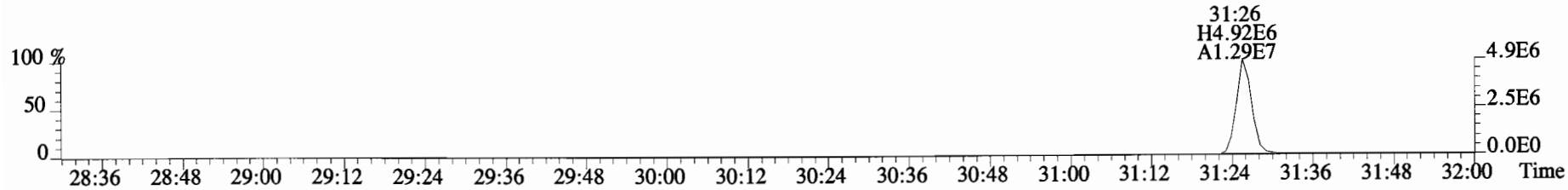
355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



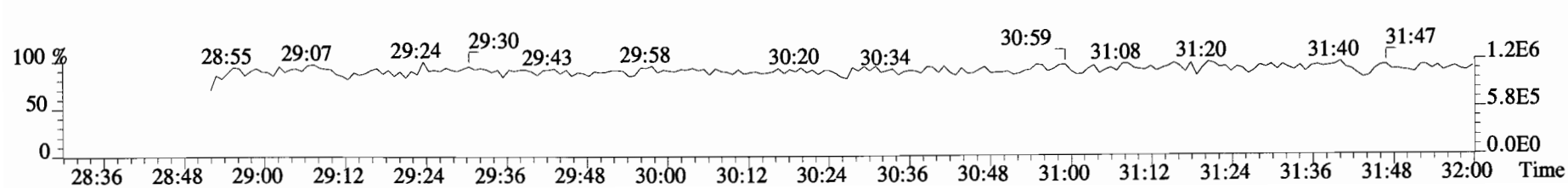
365.8978 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



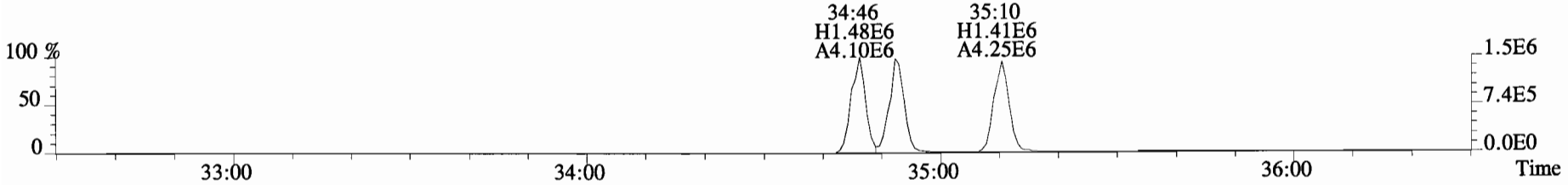
367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



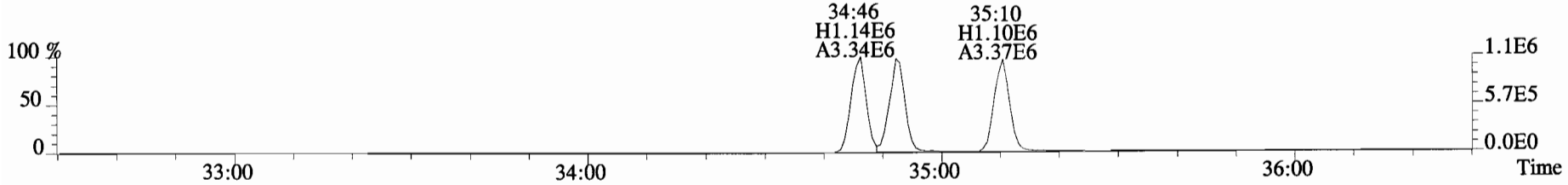
366.9792 S:2 F:2



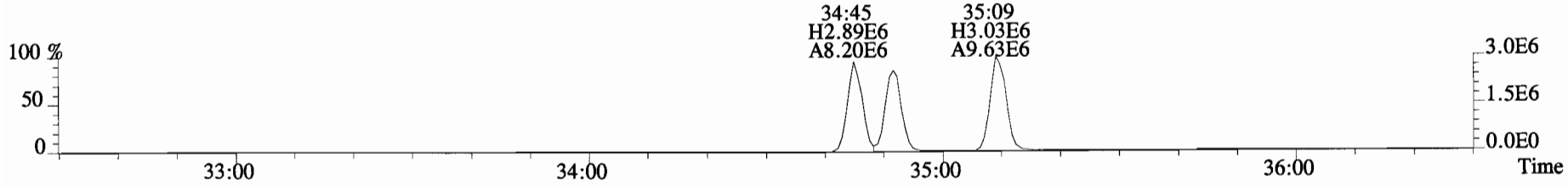
File:150130D2 #1-393 Acq:30-JAN-2015 23:00:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BS1 OPR 1 Exp:OCDD_DB5
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



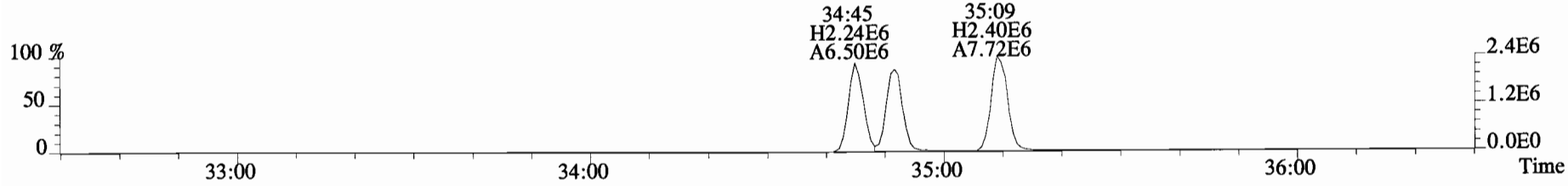
391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



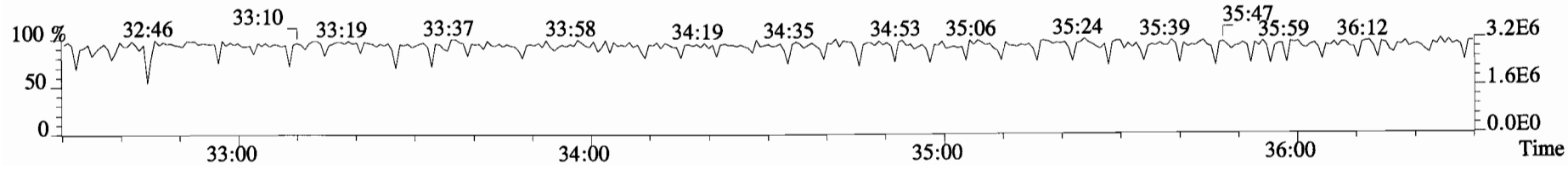
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



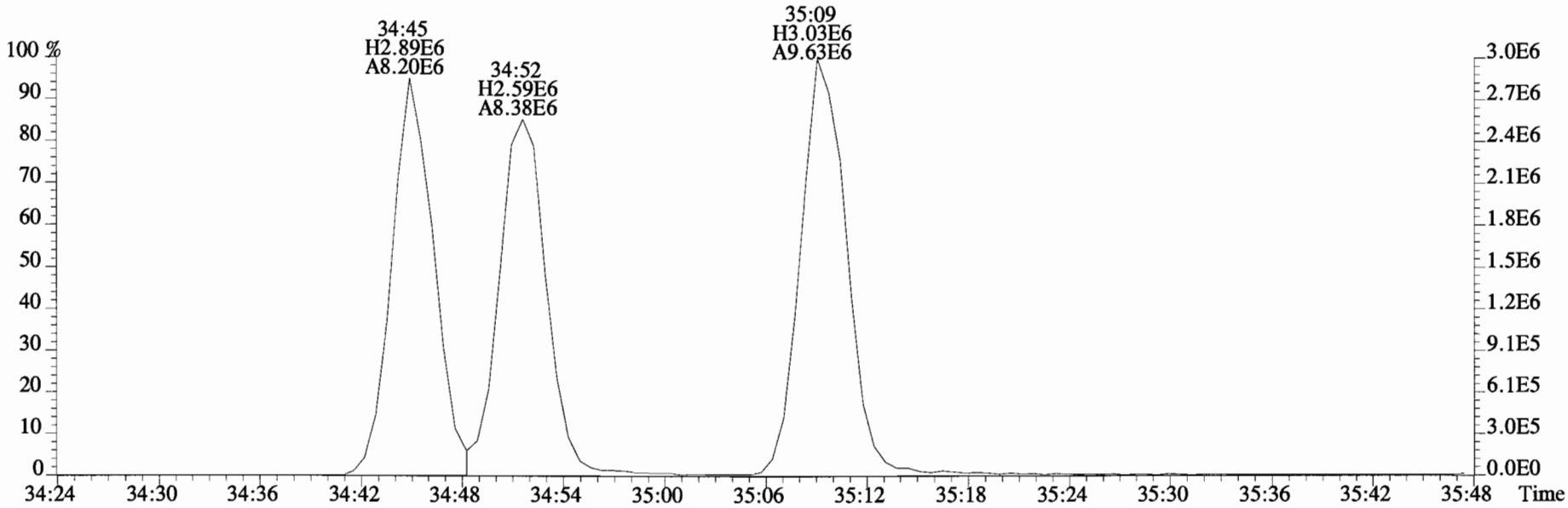
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



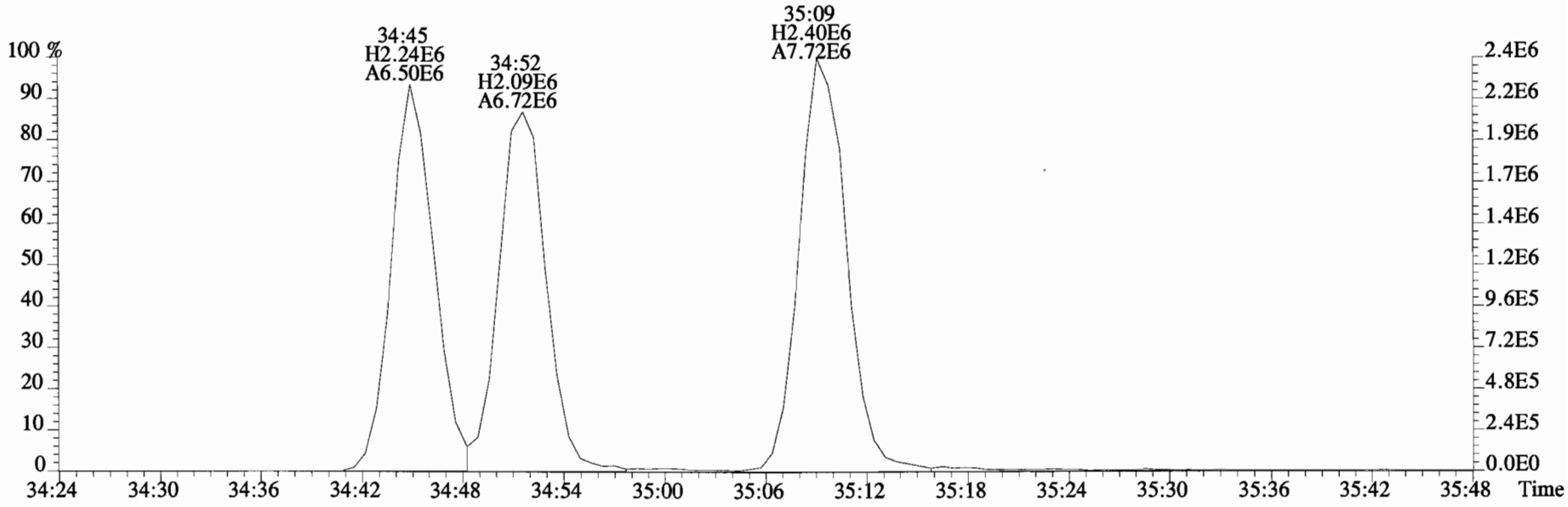
380.9760 S:2 F:3



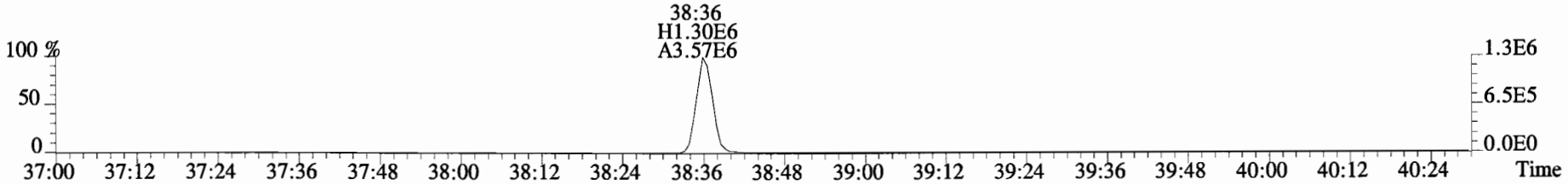
File:150130D2 #1-393 Acq:30-JAN-2015 23:00:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BS1 OPR 1 Exp:OCDD_DB5
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



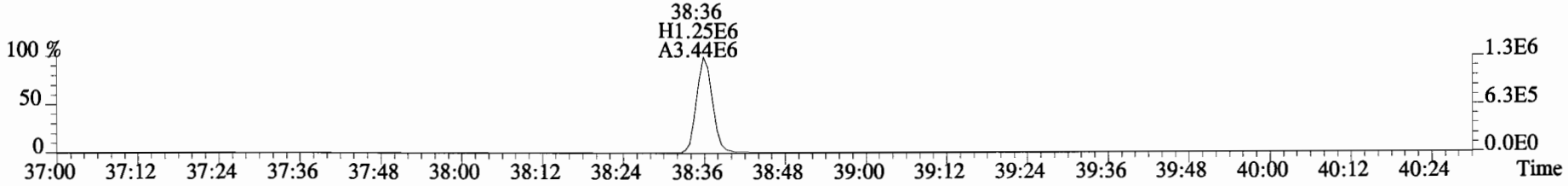
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



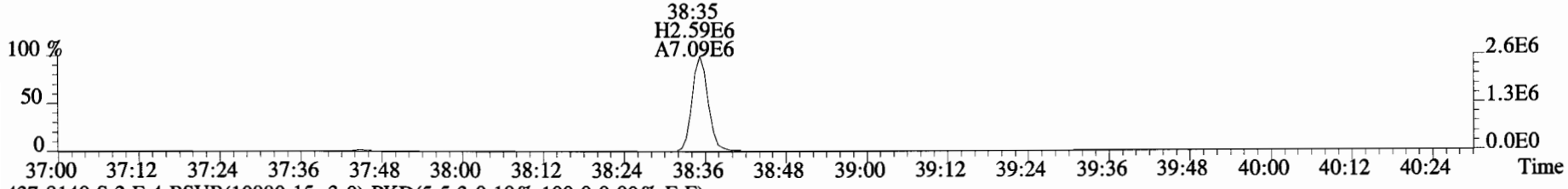
File:150130D2 #1-325 Acq:30-JAN-2015 23:00:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BS1 OPR 1 Exp:OCDD_DB5
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



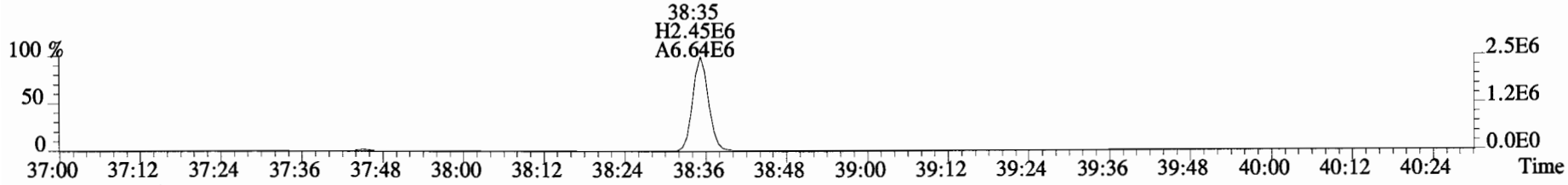
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



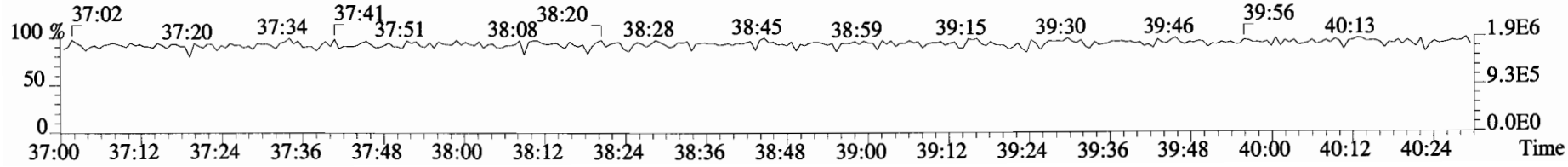
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



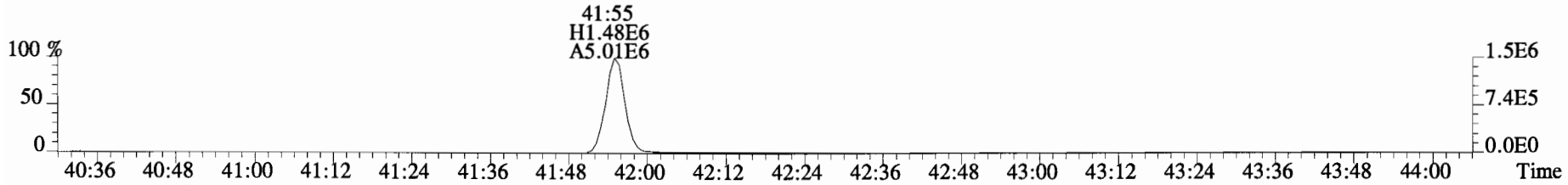
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



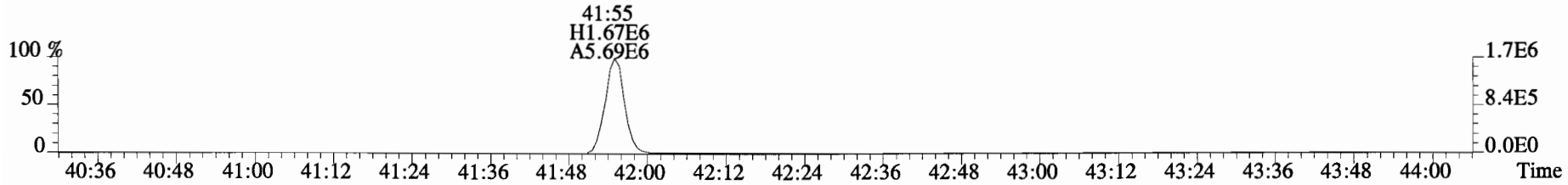
430.9728 S:2 F:4



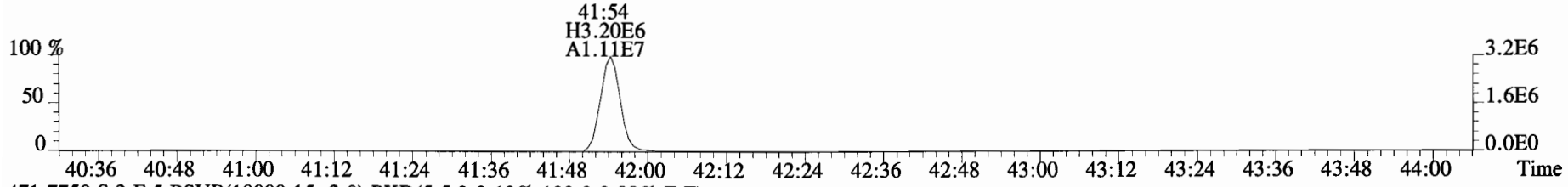
File:150130D2 #1-389 Acq:30-JAN-2015 23:00:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BS1 OPR 1 Exp:OCDD_DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



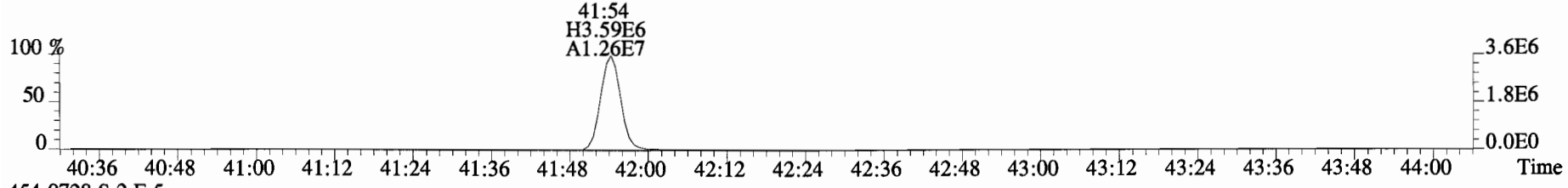
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



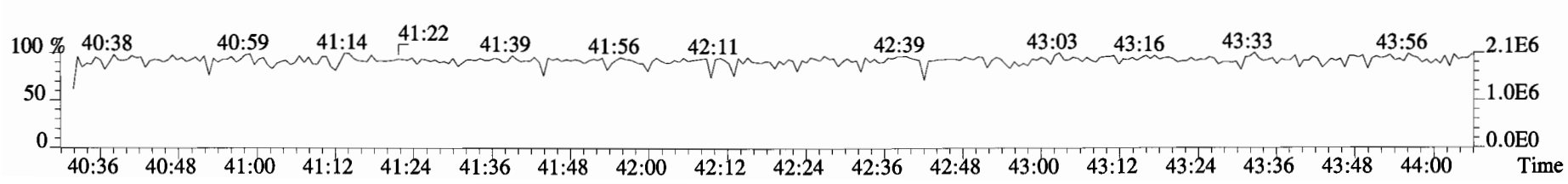
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



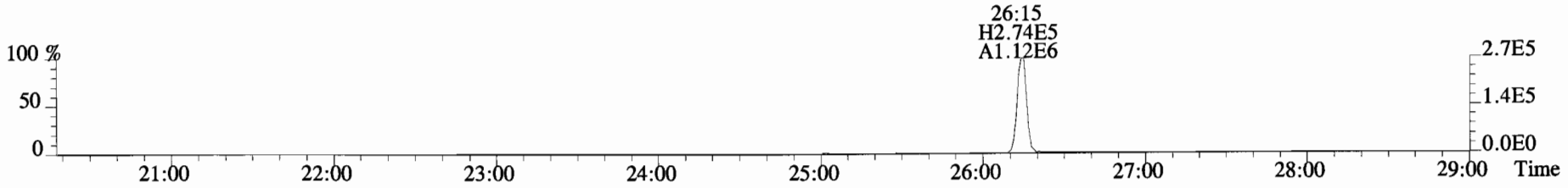
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



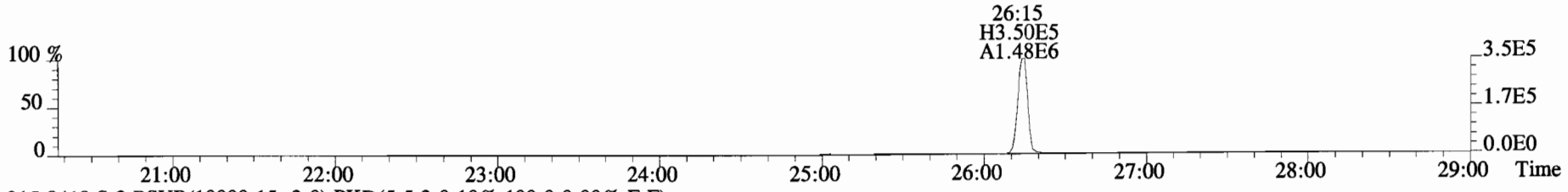
454.9728 S:2 F:5



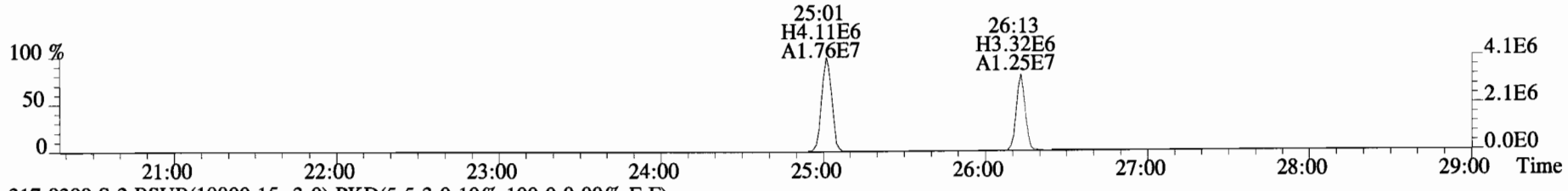
File:150130D2 #1-551 Acq:30-JAN-2015 23:00:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BS1 OPR 1 Exp:OCDD_DB5
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



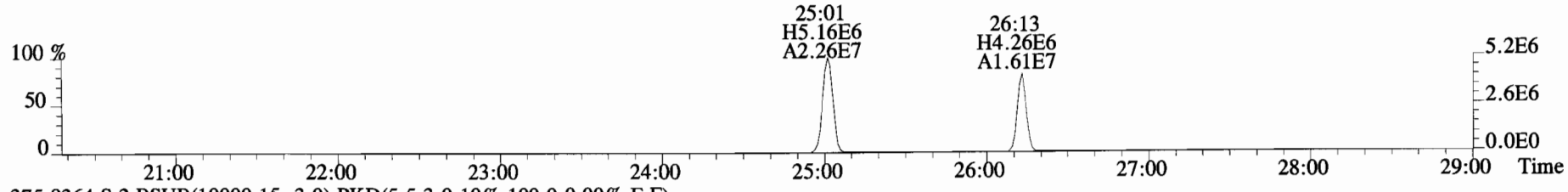
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



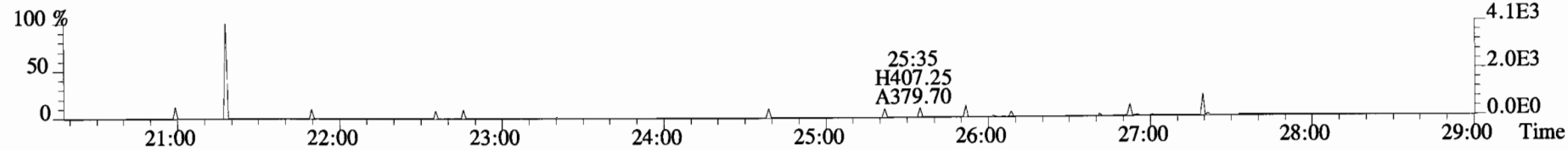
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



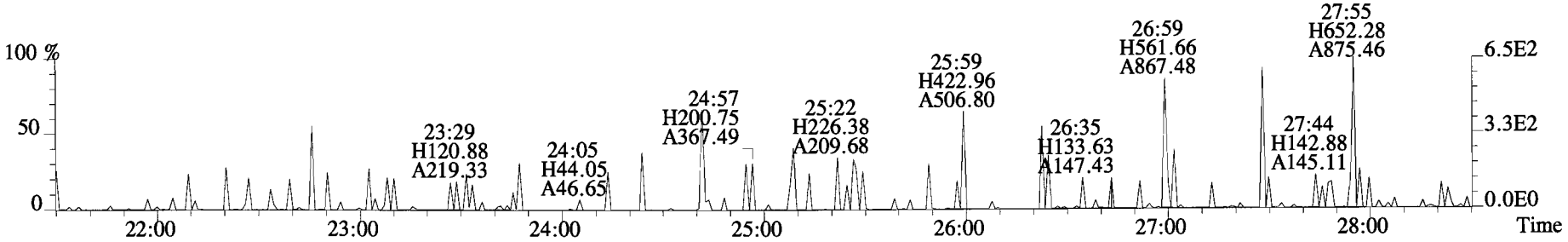
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



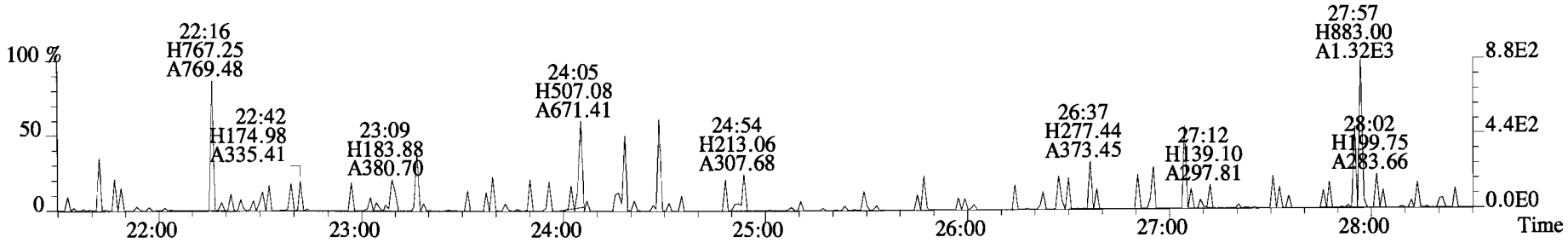
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



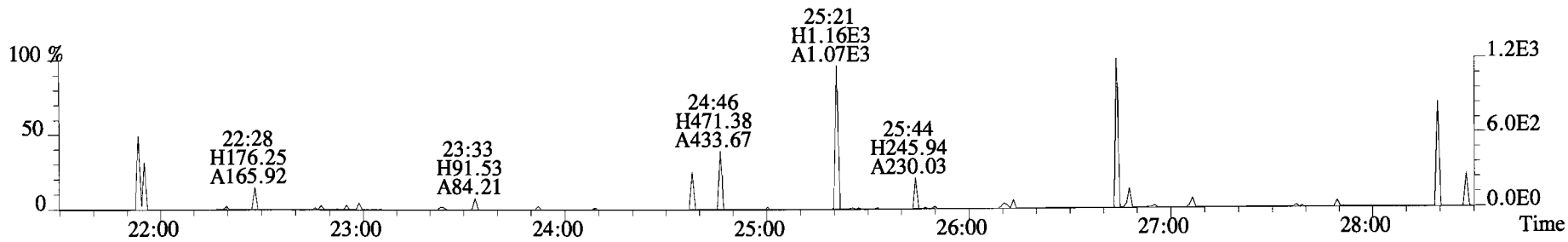
File:150130D2 #1-551 Acq:30-JAN-2015 23:00:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BS1 OPR 1 Exp:OCDD_DB5
339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



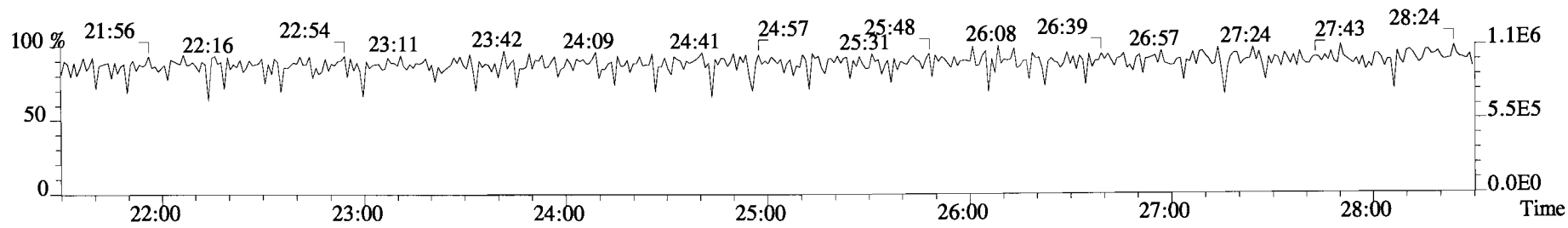
341.8568 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



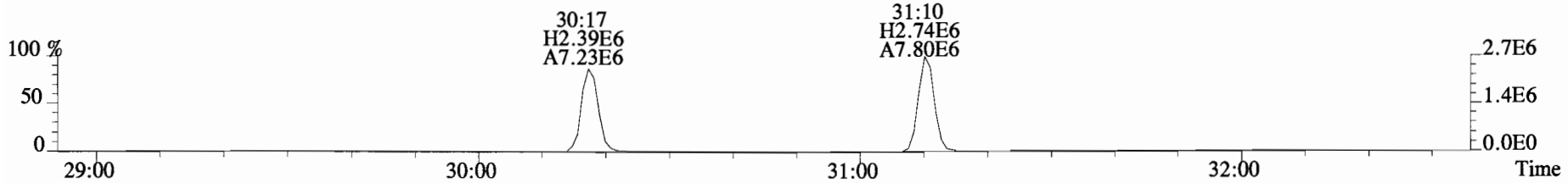
409.7974 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



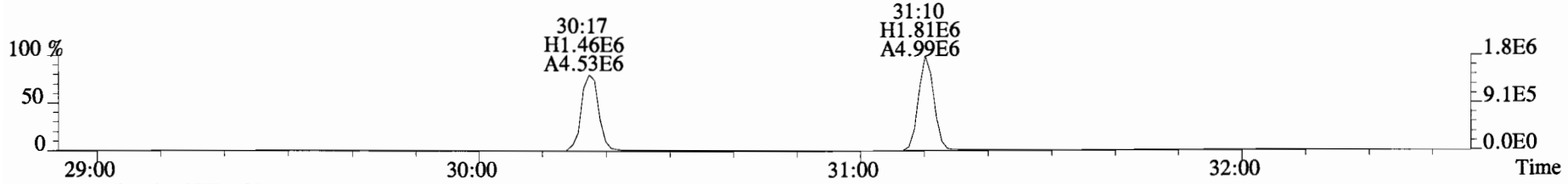
316.9824 S:2



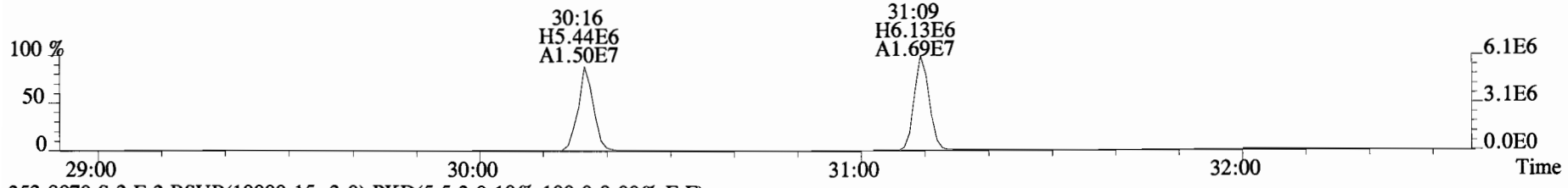
File:150130D2 #1-251 Acq:30-JAN-2015 23:00:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BS1 OPR 1 Exp:OCDD_DB5
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



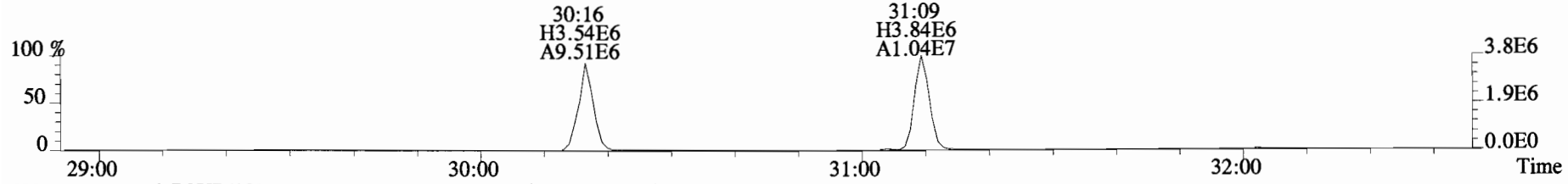
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



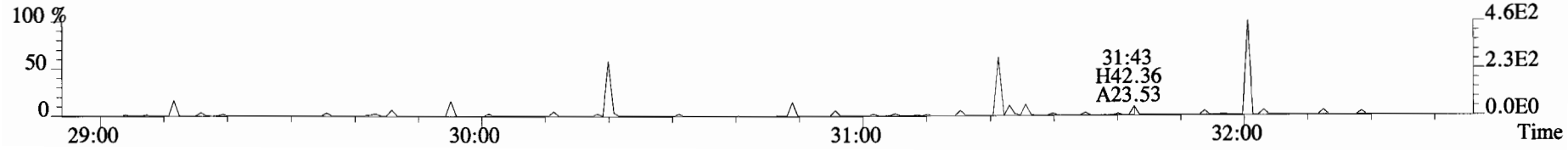
351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

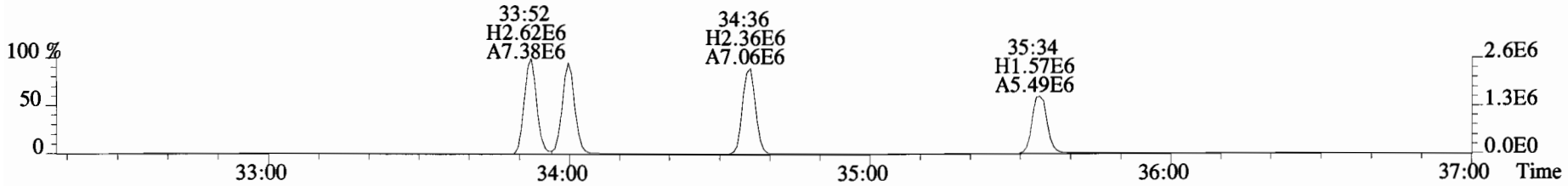


409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

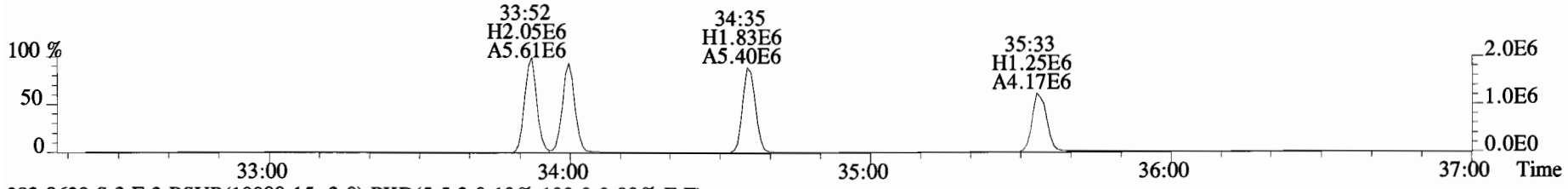


File:150130D2 #1-393 Acq:30-JAN-2015 23:00:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BS1 OPR 1 Exp:OCDD_DB5

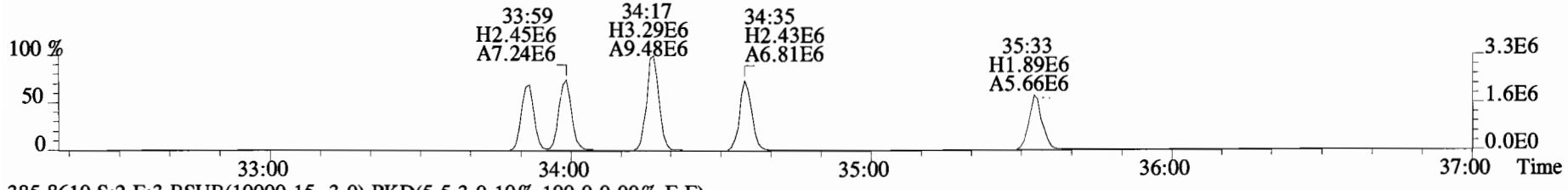
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



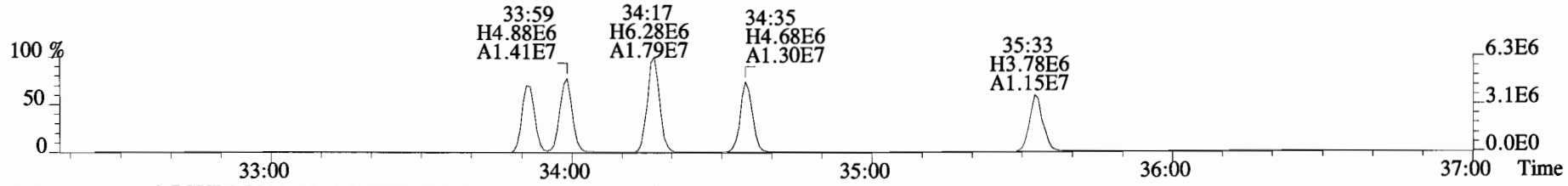
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



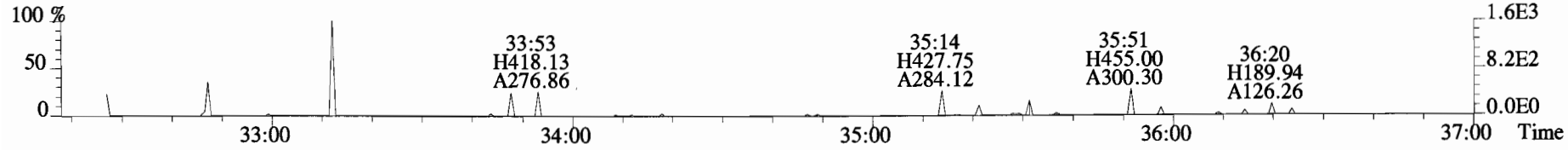
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



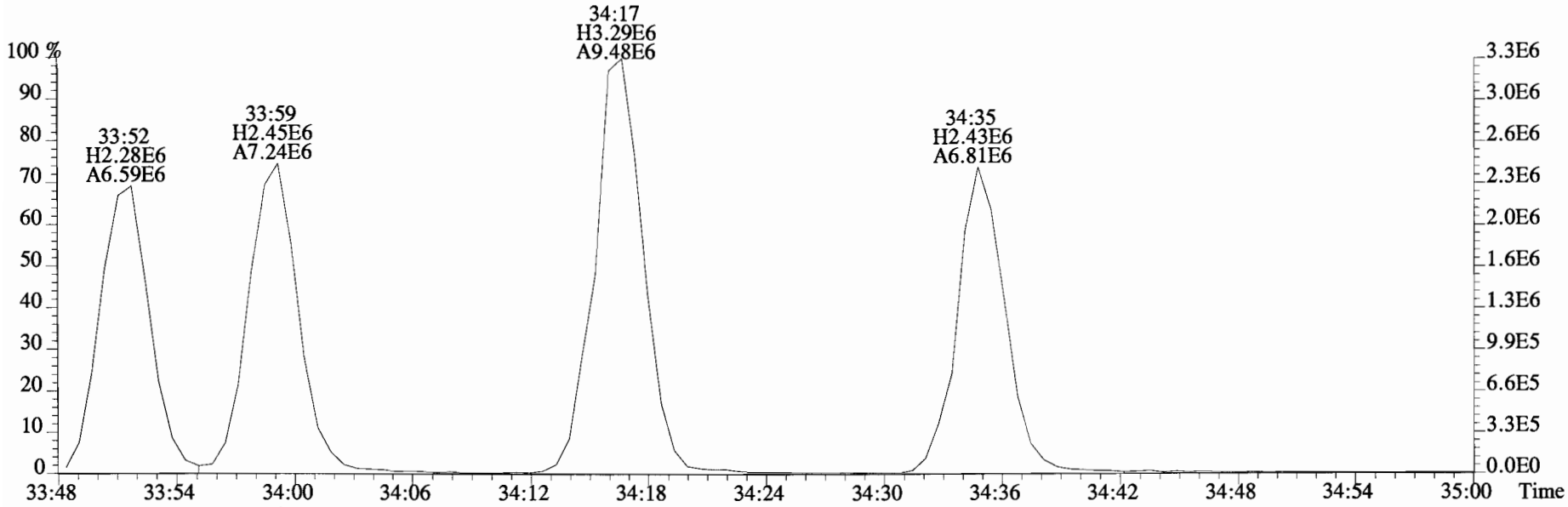
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



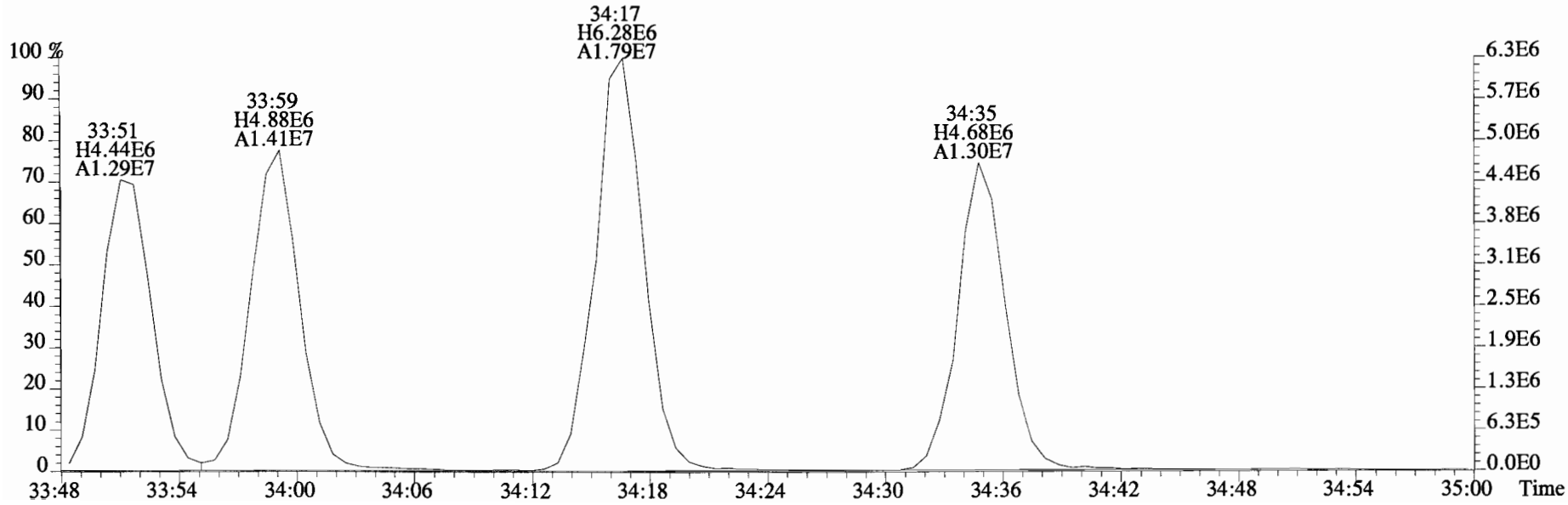
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



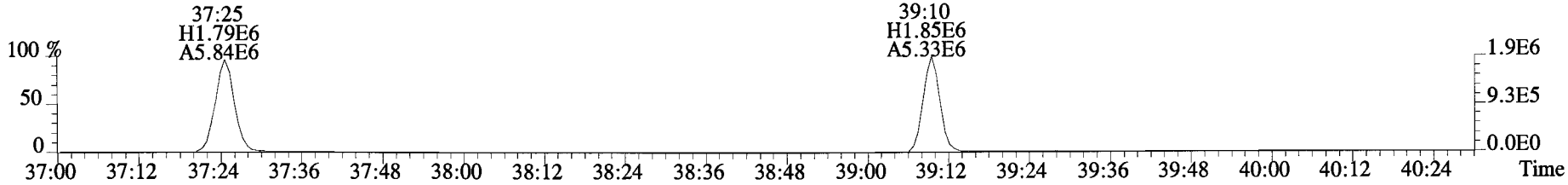
File:150130D2 #1-393 Acq:30-JAN-2015 23:00:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BS1 OPR 1 Exp:OCDD_DB5
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



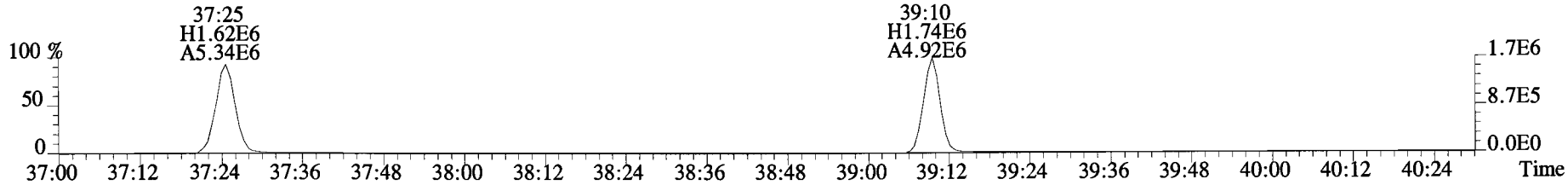
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



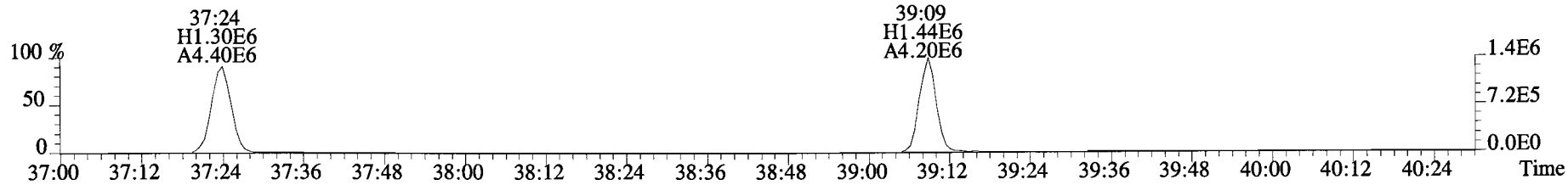
File:150130D2 #1-325 Acq:30-JAN-2015 23:00:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BS1 OPR 1 Exp:OCDD_DB5
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



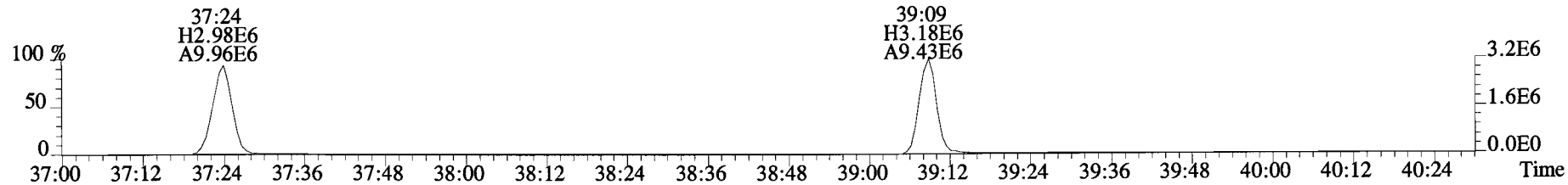
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



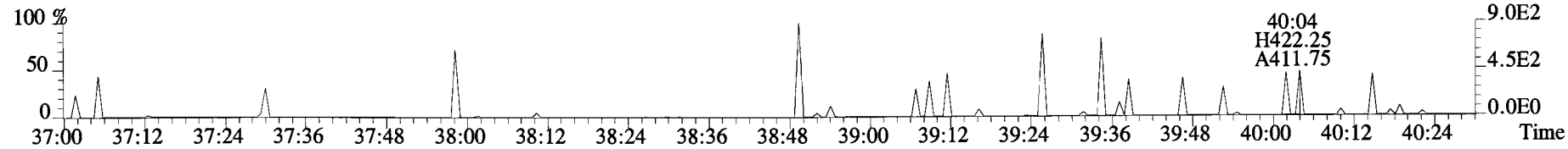
417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



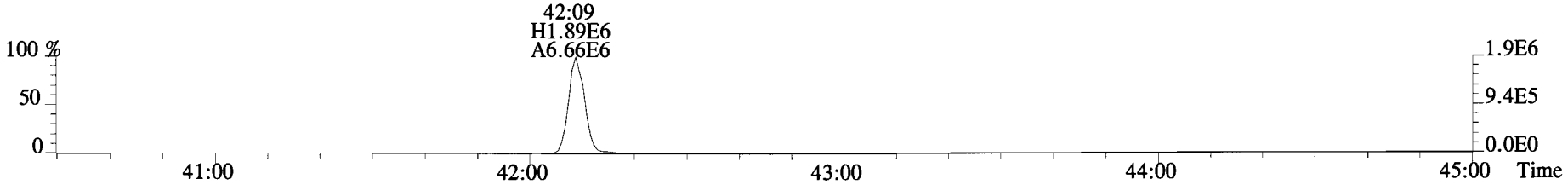
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



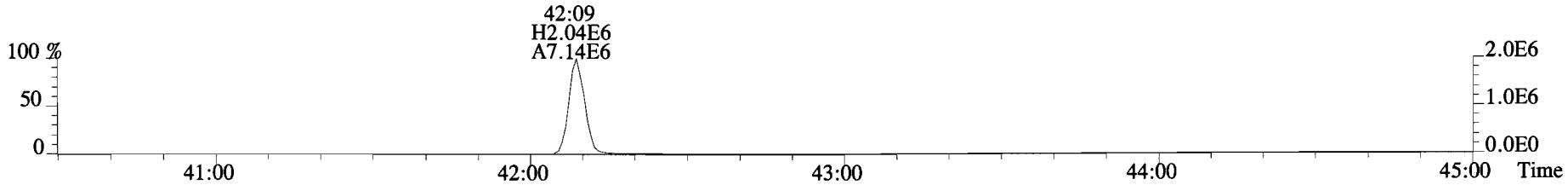
479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



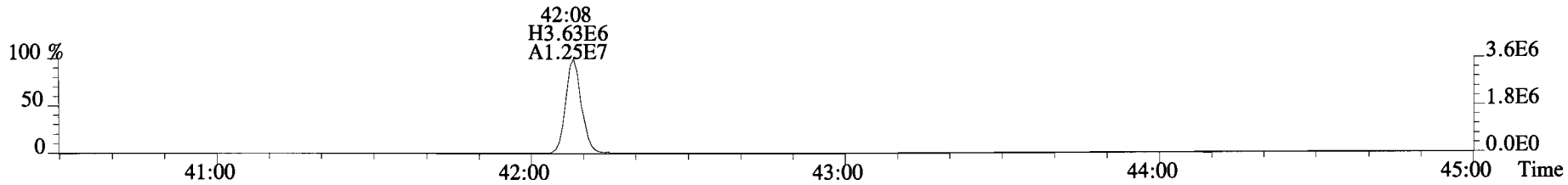
File:150130D2 #1-389 Acq:30-JAN-2015 23:00:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-7 Text:B5A0110-BS1 OPR 1 Exp:OCDD_DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



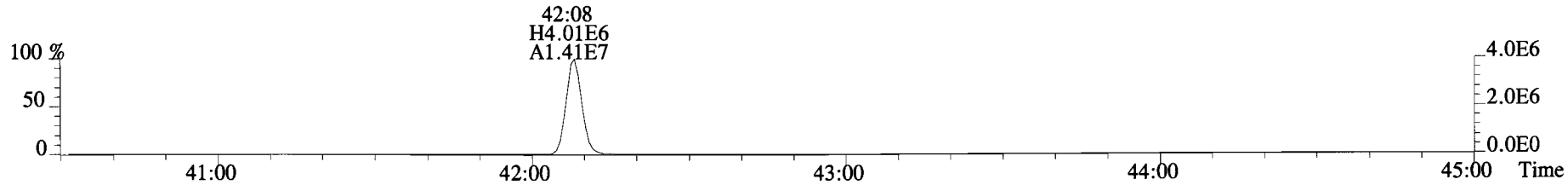
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



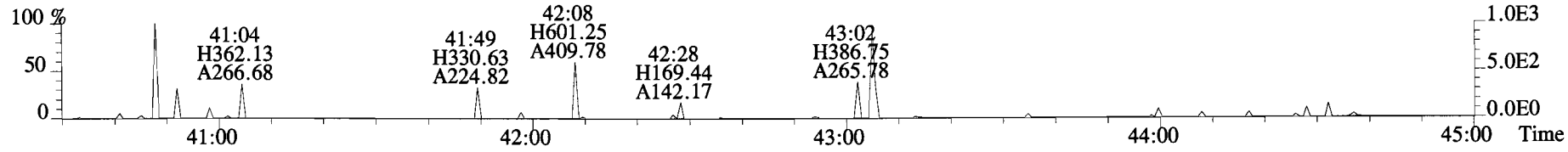
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



	Name	Resp	RA		RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	*	*	n	1.17	NotF	*	*		782	2.5	1.09
	1,2,3,7,8-PeCDD	1.74e+04	0.54	y	0.91	31:24	1.000	2.2159		*	2.5	*
	1,2,3,4,7,8-HxCDD	2.24e+04	1.13	y	1.08	34:43	1.000	3.4279		*	2.5	*
	1,2,3,6,7,8-HxCDD	6.70e+04	1.37	y	1.06	34:50	1.000	10.298		*	2.5	*
	1,2,3,7,8,9-HxCDD	5.08e+04	1.12	y	0.93	35:08	1.000	7.5279		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	1.38e+06	1.01	y	1.10	38:34	1.000	223.85		*	2.5	*
	OCDD	9.88e+06	0.89	y	0.95	41:53	1.000	2141.3		*	2.5	*
	2,3,7,8-TCDF	5.07e+04	0.79	y	1.07	26:11	1.001	3.7265		*	2.5	*
	1,2,3,7,8-PeCDF	4.37e+04	1.63	y	1.07	30:15	1.001	3.5739		*	2.5	*
	2,3,4,7,8-PeCDF	4.49e+04	1.23	n	1.03	31:08	1.001	3.8789		*	2.5	*
	1,2,3,4,7,8-HxCDF	1.24e+05	1.23	y	1.38	33:50	1.000	11.263		*	2.5	*
	1,2,3,6,7,8-HxCDF	6.31e+04	1.46	n	1.26	33:57	1.000	5.8118		*	2.5	*
	2,3,4,6,7,8-HxCDF	9.13e+04	1.16	y	1.29	34:33	1.000	9.0958		*	2.5	*
	1,2,3,7,8,9-HxCDF	1.74e+04	1.23	y	1.19	35:33	1.001	2.0690		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	6.68e+05	1.12	y	1.61	37:22	1.000	70.569		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	4.76e+04	1.19	y	1.53	39:07	1.000	5.6663		*	2.5	*
	OCDF	1.15e+06	0.92	y	1.10	42:07	1.000	192.48		*	2.5	*
IS	13C-2,3,7,8-TCDD	1.88e+07	0.80	y	1.06	26:56	1.021	1531.5				
IS	13C-1,2,3,7,8-PeCDD	1.71e+07	0.60	y	1.18	31:24	1.191	1255.8				
IS	13C-1,2,3,4,7,8-HxCDD	1.21e+07	1.26	y	0.72	34:43	1.014	1331.6				
IS	13C-1,2,3,6,7,8-HxCDD	1.21e+07	1.24	y	0.74	34:49	1.017	1311.9				
IS	13C-1,2,3,7,8,9-HxCDD	1.44e+07	1.22	y	0.85	35:07	1.026	1342.4				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.10e+07	1.05	y	0.65	38:33	1.126	1345.1				
IS	13C-OCDD	1.93e+07	0.88	y	0.76	41:52	1.223	2012.8				
IS	13C-2,3,7,8-TCDF	2.52e+07	0.76	y	0.92	26:10	0.992	1574.8				
IS	13C-1,2,3,7,8-PeCDF	2.26e+07	1.56	y	0.92	30:14	1.147	1404.1				
IS	13C-2,3,4,7,8-PeCDF	2.23e+07	1.59	y	0.93	31:07	1.180	1370.4				
IS	13C-1,2,3,4,7,8-HxCDF	1.58e+07	0.51	y	0.98	33:49	0.988	1283.9				
IS	13C-1,2,3,6,7,8-HxCDF	1.72e+07	0.51	y	1.08	33:56	0.991	1261.4				
IS	13C-2,3,4,6,7,8-HxCDF	1.55e+07	0.50	y	1.03	34:33	1.009	1199.4				
IS	13C-1,2,3,7,8,9-HxCDF	1.41e+07	0.53	y	0.86	35:31	1.037	1302.3				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.17e+07	0.43	y	0.72	37:21	1.091	1286.2				
IS	13C-1,2,3,4,7,8,9-HpCDF	1.09e+07	0.43	y	0.70	39:06	1.142	1248.8				
IS	13C-OCDF	2.17e+07	0.90	y	0.85	42:06	1.230	2029.3				
C/Up	37Cl-2,3,7,8-TCDD	1.04e+07			1.12	26:57	1.022	804.38				
RS/RT	13C-1,2,3,4-TCDD	2.30e+07	0.79	y	1.00	26:22	*	1987.1				
RS	13C-1,2,3,4-TCDF	3.47e+07	0.77	y	1.00	24:58	*	1987.1				
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.50e+07	0.50	y	1.00	34:14	*	1987.1				

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	5.95	8.90		*	*
Total Penta-Dioxins	17.7	24.9		*	*
Total Hexa-Dioxins	88.7	90.7		*	*
Total Hepta-Dioxins	482	482		*	*
Total Tetra-Furans	50.4	67.9		*	*
Total Penta-Furans	128.38	135.03		*	*
Total Hexa-Furans	143	149		*	*
Total Hepta-Furans	217	217		*	*

	Rec	Qual
IS	77.1	
IS	63.2	
IS	67.0	
IS	66.0	
IS	67.6	
IS	67.7	
IS	50.6	
IS	79.3	
IS	70.7	
IS	69.0	
IS	64.6	
IS	63.5	
IS	60.4	
IS	65.5	
IS	64.7	
IS	62.8	
IS	51.1	
C/Up	101	

Integrations by Analyst: [signature] Date: 2/6/15

Reviewed by Analyst: [signature] Date: 2/12/15

Totals class: TCDD EMPC Entry #: 19

Run: 18 File: 150130D2 S: 13 I: 1 F: 1
Acquired: 31-JAN-15 07:51:20 Processed: 1-FEB-15 09:20:58

Total Concentration: 8.8993 Unnamed Concentration: 8.899

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
23:36	2.492e+04	3.017e+04	0.83	y	5.509e+04	4.9699	
23:58	1.032e+04	1.655e+04	0.62	n	2.373e+04	2.1405	
25:18	5.034e+03	5.851e+03	0.86	y	1.089e+04	0.98205	
25:29	3.890e+03	6.391e+03	0.61	n	8.943e+03	0.80680	

Totals class: PeCDD EMPC Entry #: 21

Run: 18 File: 150130D2 S: 13 I: 1 F: 2
Acquired: 31-JAN-15 07:51:20 Processed: 1-FEB-15 09:20:58

Total Concentration: 24.944 Unnamed Concentration: 22.728

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
29:23	2.141e+04	3.232e+04	0.66	y	5.373e+04	6.8601	
29:50	3.573e+03	5.519e+03	0.65	y	9.092e+03	1.1609	
30:16	1.672e+04	2.334e+04	0.72	y	4.006e+04	5.1153	
30:25	7.018e+03	9.205e+03	0.76	n	1.500e+04	1.9158	
30:30	1.216e+04	1.578e+04	0.77	n	2.572e+04	3.2843	
30:44	4.843e+03	1.120e+04	0.43	n	1.253e+04	1.6000	
31:01	6.329e+03	1.174e+04	0.54	y	1.807e+04	2.3077	
31:24	6.112e+03	1.124e+04	0.54	y	1.735e+04	2.2159	1,2,3,7,8-PeCDD
31:28	2.158e+03	2.328e+03	0.93	n	3.794e+03	0.48450	

Totals class: HxCDD EMPC Entry #: 23

Run: 18 File: 150130D2 S: 13 I: 1 F: 3
Acquired: 31-JAN-15 07:51:20 Processed: 1-FEB-15 09:20:58

Total Concentration: 90.725 Unnamed Concentration: 69.472

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
33:10	6.298e+04	5.265e+04	1.20	y	1.156e+05	17.520	
33:44	6.775e+04	4.861e+04	1.39	y	1.164e+05	17.630	
34:00	1.145e+05	9.900e+04	1.16	y	2.135e+05	32.343	
34:43	1.189e+04	1.053e+04	1.13	y	2.242e+04	3.4279	1,2,3,4,7,8-HxCDD
34:50	3.867e+04	2.832e+04	1.37	y	6.699e+04	10.298	1,2,3,6,7,8-HxCDD
35:02	7.234e+03	7.771e+03	0.93	n	1.307e+04	1.9799	
35:08	2.678e+04	2.401e+04	1.12	y	5.079e+04	7.5279	1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC Entry #: 25

Run: 18 File: 150130D2 S: 13 I: 1 F: 4
Acquired: 31-JAN-15 07:51:20 Processed: 1-FEB-15 09:20:58

Total Concentration: 482.09 Unnamed Concentration: 258.243

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
37:44	8.006e+05	7.856e+05	1.02 y	1.586e+06	258.24	
38:34	6.923e+05	6.827e+05	1.01 y	1.375e+06	223.85	1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC Entry #: 27

Run: 18 File: 150130D2 S: 13 I: 1 F: 1
Acquired: 31-JAN-15 07:51:20 Processed: 1-FEB-15 09:20:58

Total Concentration: 67.900 Unnamed Concentration: 64.174

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
22:05	1.553e+04	2.025e+04	0.77	y	3.579e+04	2.6308	
22:43	6.646e+04	8.439e+04	0.79	y	1.508e+05	11.090	
23:14	4.109e+04	5.163e+04	0.80	y	9.272e+04	6.8167	
23:35	3.771e+04	4.075e+04	0.93	n	7.213e+04	5.3031	
24:00	3.800e+04	5.635e+04	0.67	y	9.435e+04	6.9361	
24:09	1.097e+04	1.133e+04	0.97	n	2.006e+04	1.4746	
24:17	1.487e+04	1.908e+04	0.78	y	3.395e+04	2.4956	
24:44	1.062e+04	1.702e+04	0.62	n	2.441e+04	1.7945	
24:53	4.623e+04	6.006e+04	0.77	y	1.063e+05	7.8142	
24:59	2.389e+04	3.600e+04	0.66	y	5.989e+04	4.4032	
25:24	1.612e+04	2.633e+04	0.61	n	3.705e+04	2.7236	
25:39	7.939e+03	1.444e+04	0.55	n	1.825e+04	1.3416	
25:48	6.035e+03	1.166e+04	0.52	n	1.387e+04	1.0199	
25:59	9.169e+03	1.636e+04	0.56	n	2.108e+04	1.5494	
26:06	1.043e+04	9.532e+03	1.09	n	1.687e+04	1.2404	
26:11	2.240e+04	2.829e+04	0.79	y	5.069e+04	3.7265	2,3,7,8-TCDF
26:30	2.683e+04	3.479e+04	0.77	y	6.162e+04	4.5301	
26:43	3.961e+03	3.372e+03	1.17	n	5.969e+03	0.43883	
27:55	4.001e+03	4.386e+03	0.91	n	7.764e+03	0.57078	

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 18 File: 150130D2 S: 13 I: 1 F: 1
Acquired: 31-JAN-15 07:51:20 Processed: 1-FEB-15 09:20:58

Total Concentration: 62.451 Unnamed Concentration: 62.451

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
27:55	4.428e+05	2.998e+05	1.48 y	7.426e+05	62.451	

Totals class: PeCDF EMPC Entry #: 31

Run: 18 File: 150130D2 S: 13 I: 1 F: 2
Acquired: 31-JAN-15 07:51:20 Processed: 1-FEB-15 09:20:58

Total Concentration: 72.581 Unnamed Concentration: 65.128

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
29:12	3.895e+04	2.836e+04	1.37	y	6.731e+04	5.6603	
29:20	2.204e+05	1.401e+05	1.57	y	3.605e+05	30.318	
29:53	8.681e+04	5.629e+04	1.54	y	1.431e+05	12.034	
30:04	1.231e+04	8.386e+03	1.47	y	2.069e+04	1.7401	
30:15	2.703e+04	1.662e+04	1.63	y	4.365e+04	3.5739	1,2,3,7,8-PeCDF
30:28	4.178e+04	2.549e+04	1.64	y	6.728e+04	5.6575	
31:02	2.445e+04	1.291e+04	1.89	n	3.292e+04	2.7684	
31:08	2.729e+04	2.217e+04	1.23	n	4.490e+04	3.8789	2,3,4,7,8-PeCDF
31:10	5.124e+04	3.141e+04	1.63	y	8.265e+04	6.9502	

Totals class: HxCDF EMPC Entry #: 33

Run: 18 File: 150130D2 S: 13 I: 1 F: 3
Acquired: 31-JAN-15 07:51:20 Processed: 1-FEB-15 09:20:58

Total Concentration: 149.12 Unnamed Concentration: 120.883

RT	m1 Resp	m2 Resp	RA		Resp	Concentration	Name
32:38	7.956e+04	6.777e+04	1.17	y	1.473e+05	14.608	
32:48	3.165e+05	2.361e+05	1.34	y	5.526e+05	54.792	
33:21	2.769e+05	2.012e+05	1.38	y	4.782e+05	47.411	
33:44	2.309e+04	1.798e+04	1.28	y	4.107e+04	4.0719	
33:50	6.839e+04	5.581e+04	1.23	y	1.242e+05	11.262	1,2,3,4,7,8-HxCDF
33:57	4.113e+04	2.819e+04	1.46	n	6.314e+04	5.8118	1,2,3,6,7,8-HxCDF
34:33	4.911e+04	4.218e+04	1.16	y	9.129e+04	9.0958	2,3,4,6,7,8-HxCDF
35:33	9.586e+03	7.808e+03	1.23	y	1.739e+04	2.0690	1,2,3,7,8,9-HxCDF

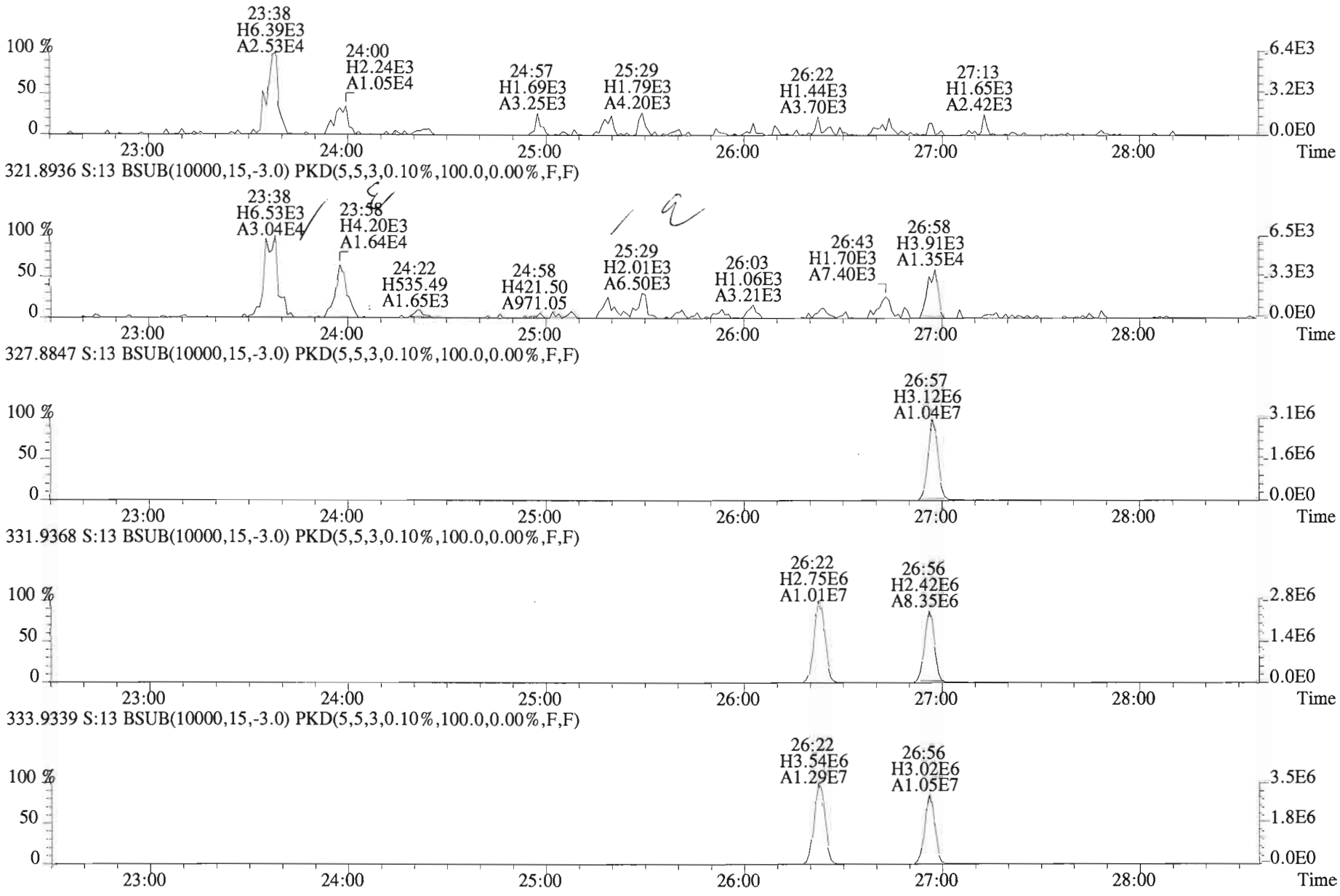
Totals class: HpCDF EMPC Entry #: 35

Run: 18 File: 150130D2 S: 13 I: 1 F: 4
Acquired: 31-JAN-15 07:51:20 Processed: 1-FEB-15 09:20:58

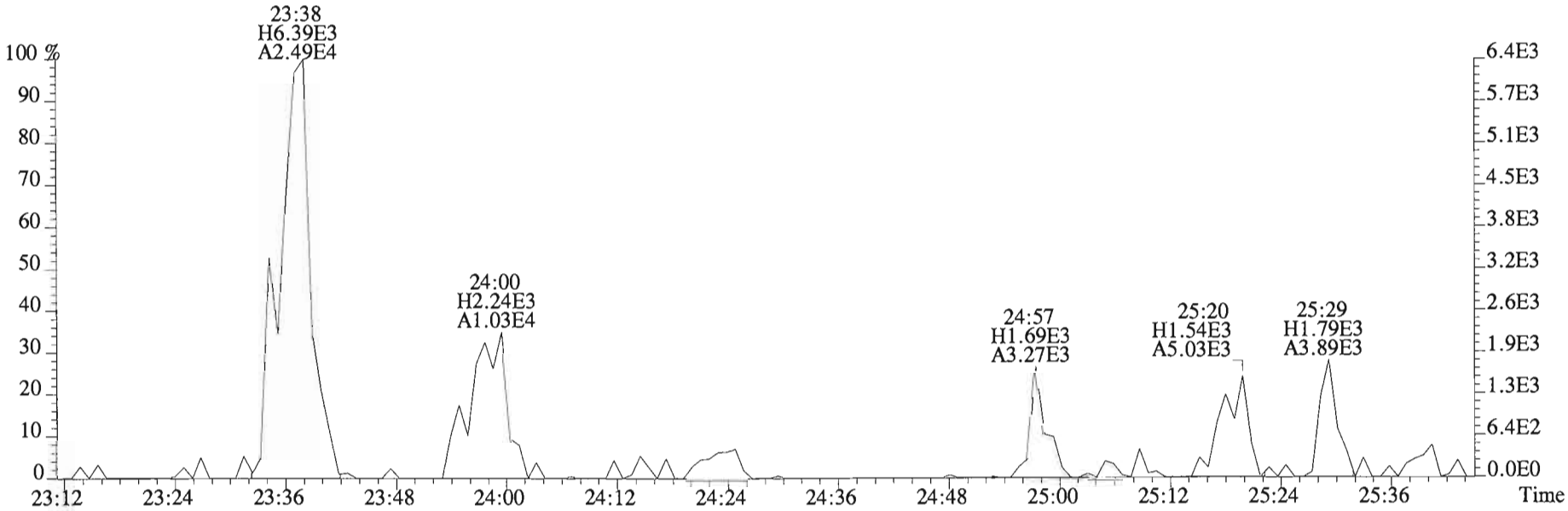
Total Concentration: 217.29 Unnamed Concentration: 141.060

RT	m1 Resp	m2 Resp	RA	Resp	Concentration	Name
37:22	3.534e+05	3.146e+05	1.12 y	6.680e+05	70.569	1,2,3,4,6,7,8-HpCDF
37:45	1.440e+04	1.353e+04	1.06 y	2.793e+04	3.1279	
37:55	6.296e+05	6.019e+05	1.05 y	1.232e+06	137.93	
39:07	2.583e+04	2.179e+04	1.19 y	4.762e+04	5.6663	1,2,3,4,7,8,9-HpCDF

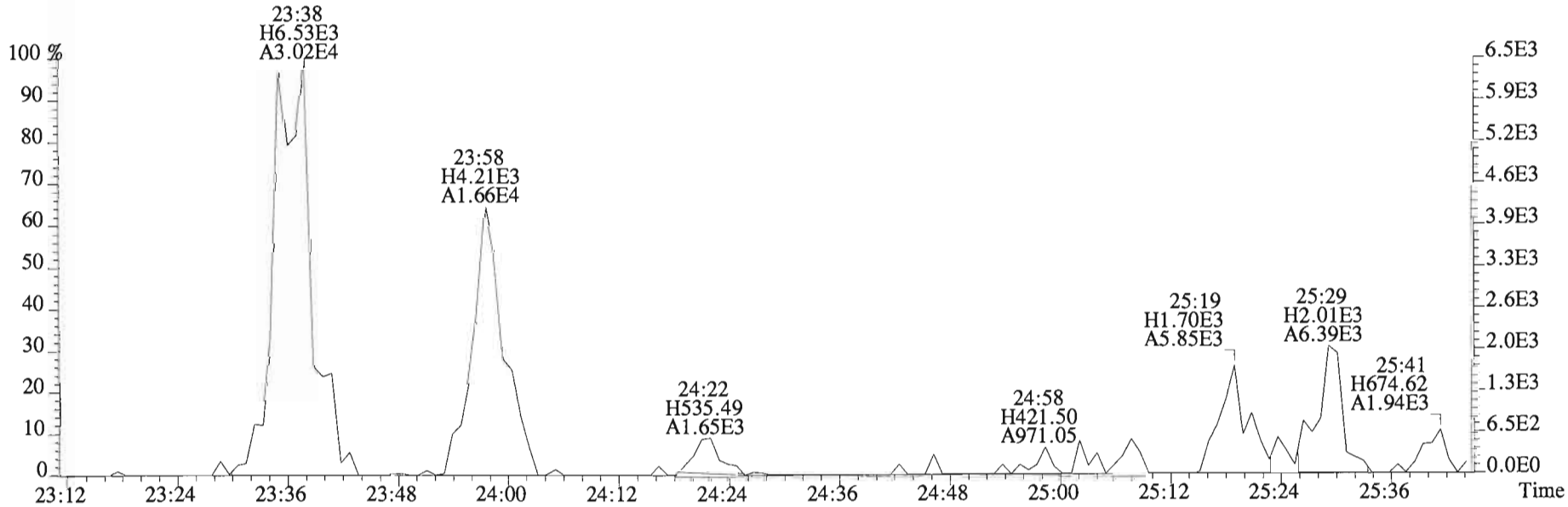
File:150130D2 #1-551 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5



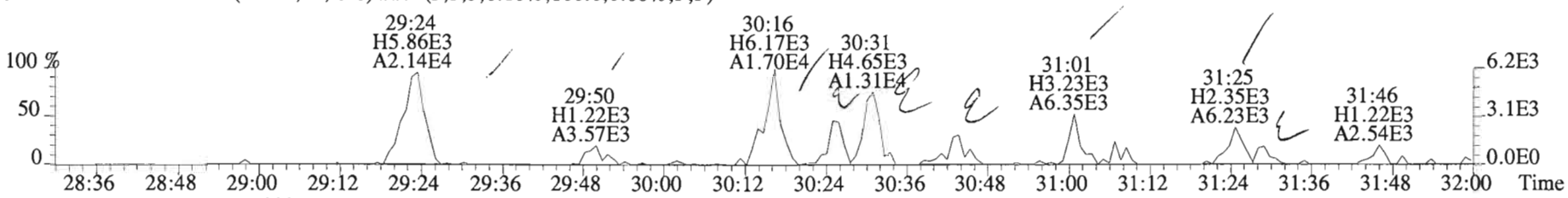
File:150130D2 #1-551 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
319.8965 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



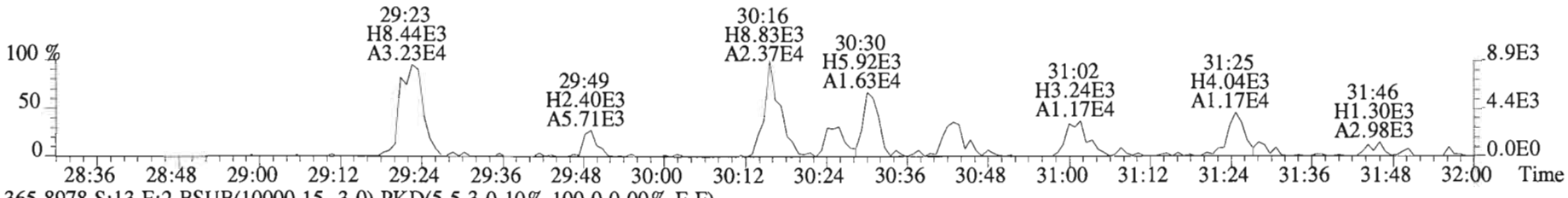
321.8936 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



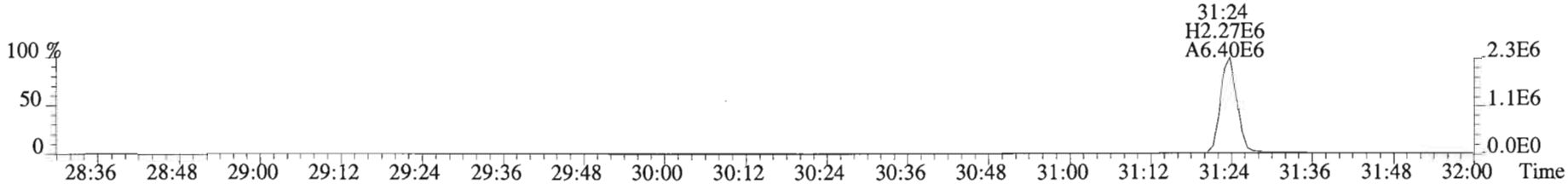
File:150130D2 #1-251 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
353.8576 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



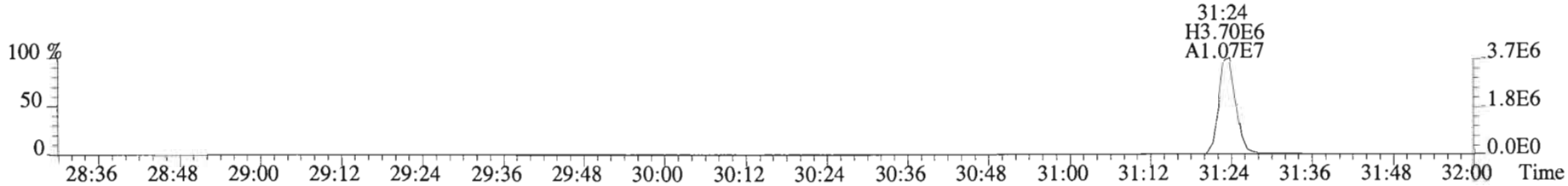
355.8546 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



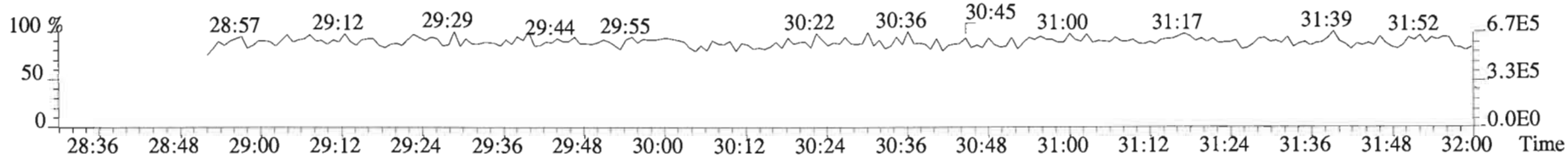
365.8978 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



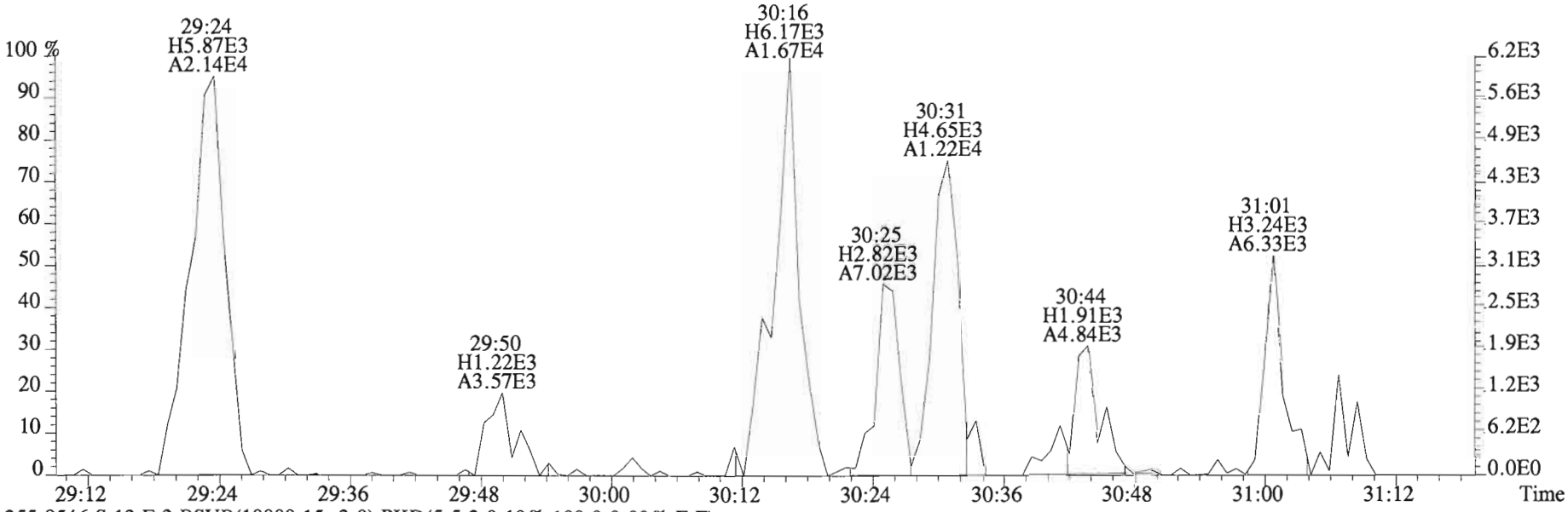
367.8949 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



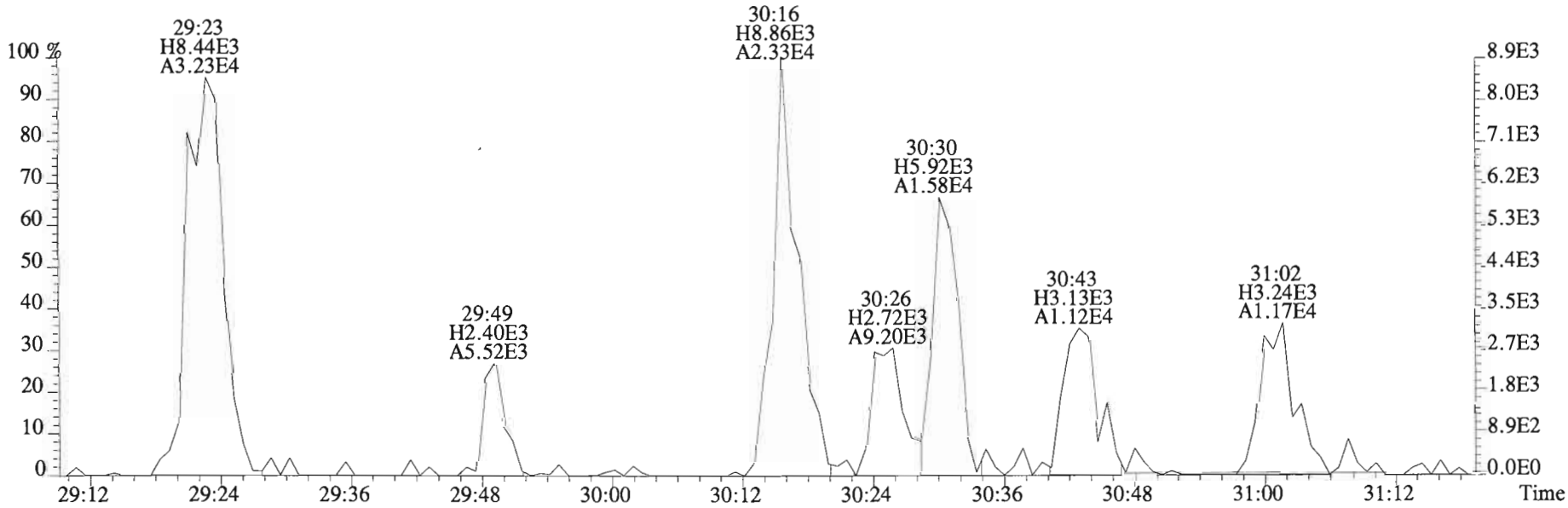
366.9792 S:13 F:2



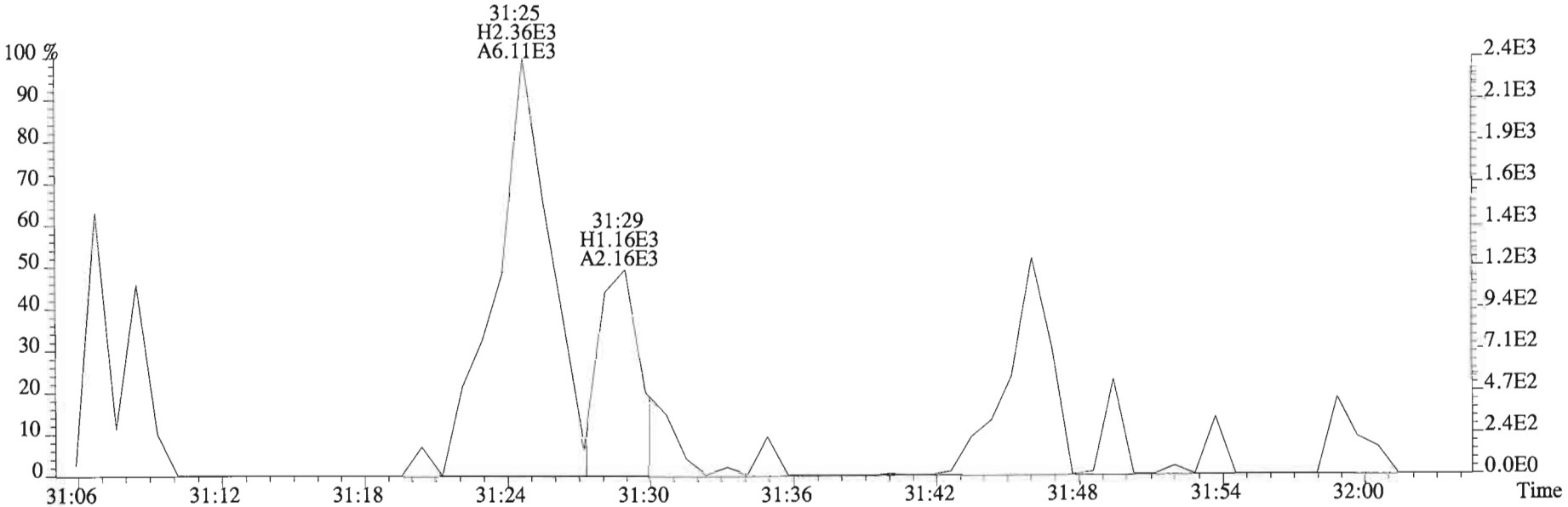
File:150130D2 #1-251 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
353.8576 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



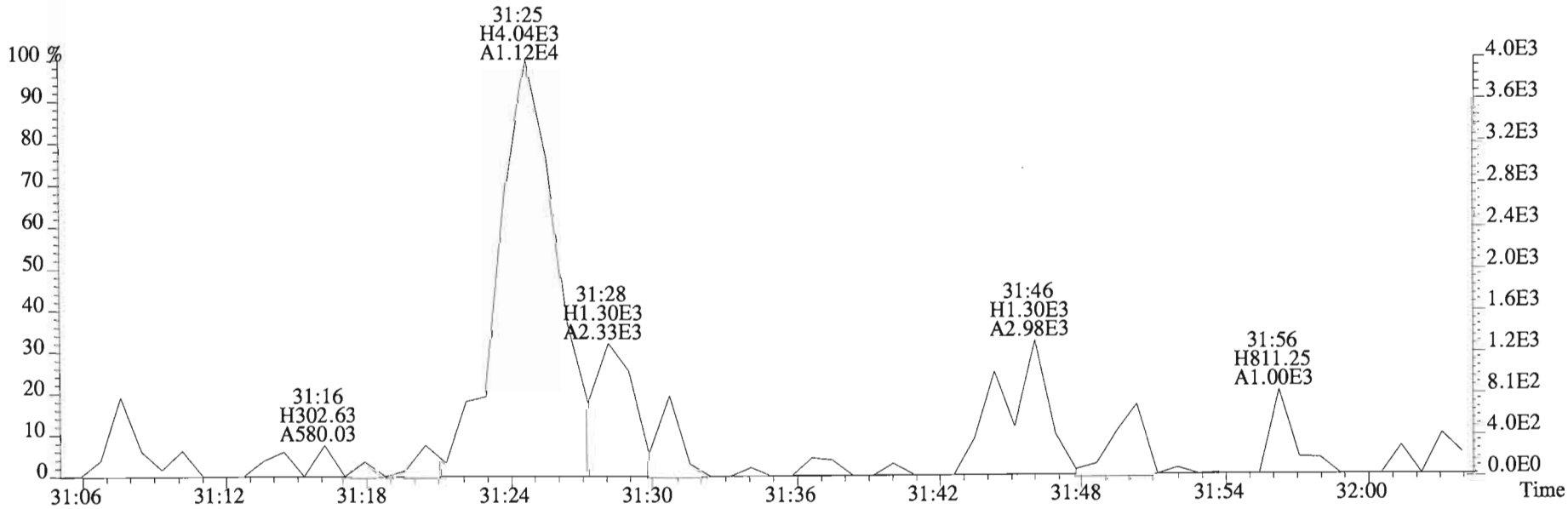
355.8546 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



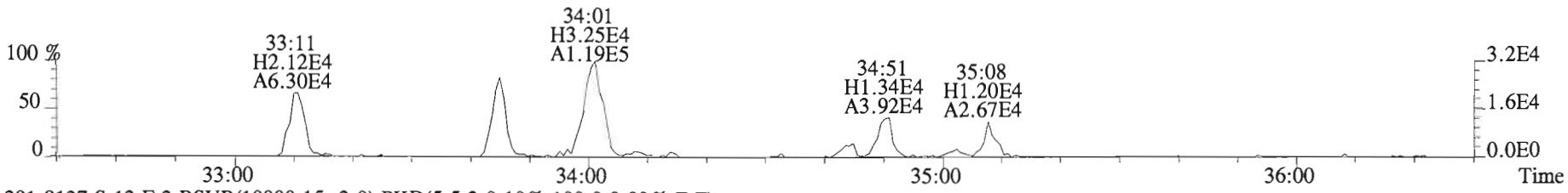
File:150130D2 #1-251 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
353.8576 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



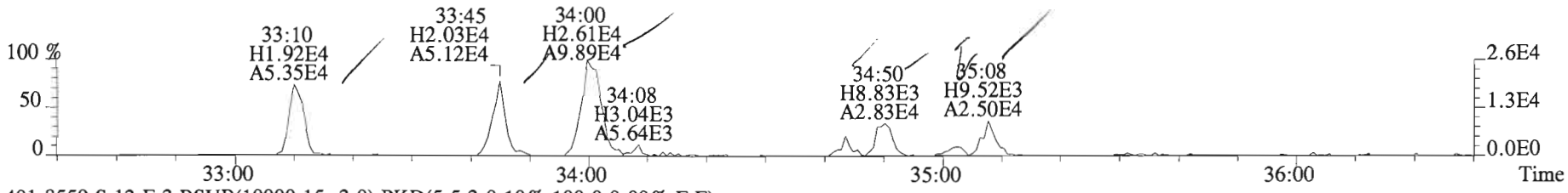
355.8546 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



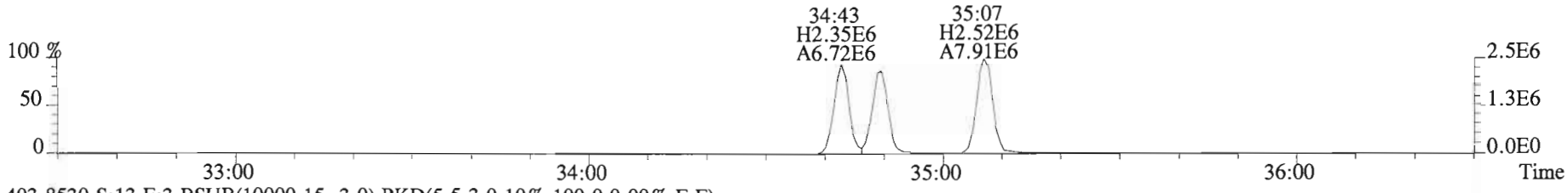
File:150130D2 #1-393 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



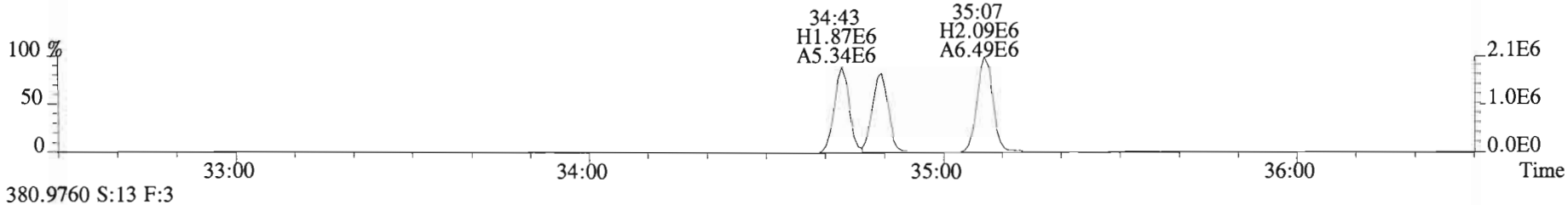
391.8127 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



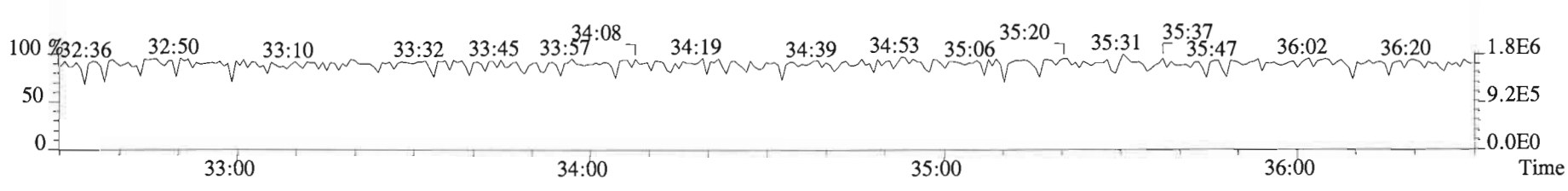
401.8559 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



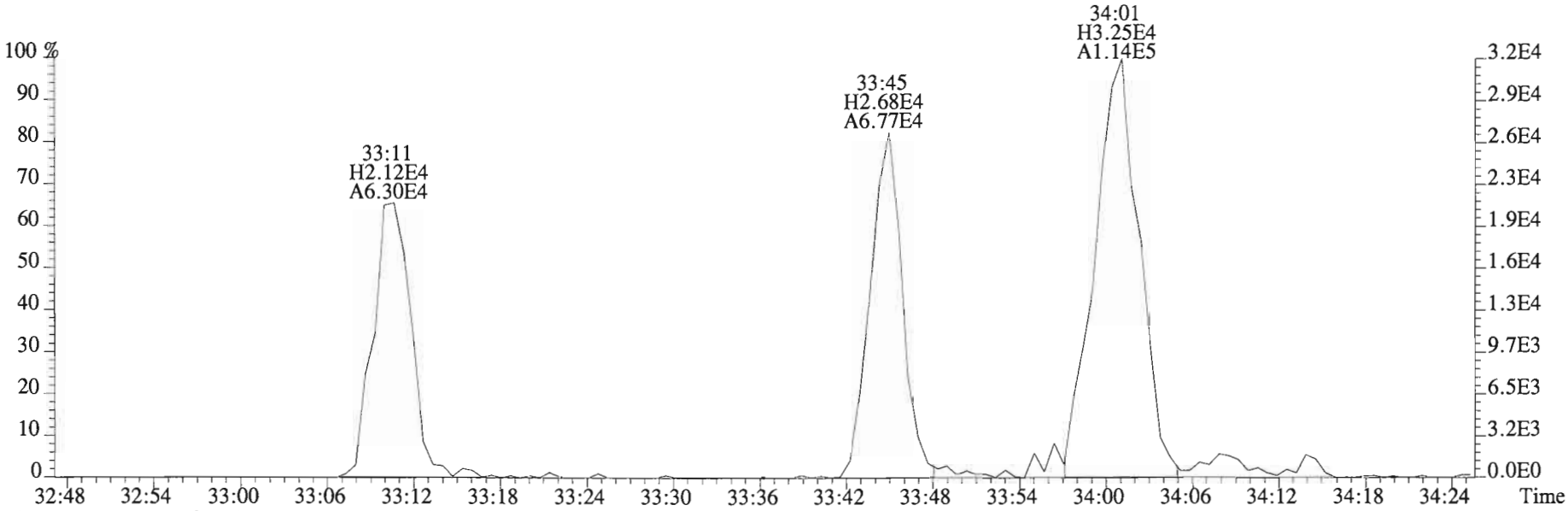
403.8530 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



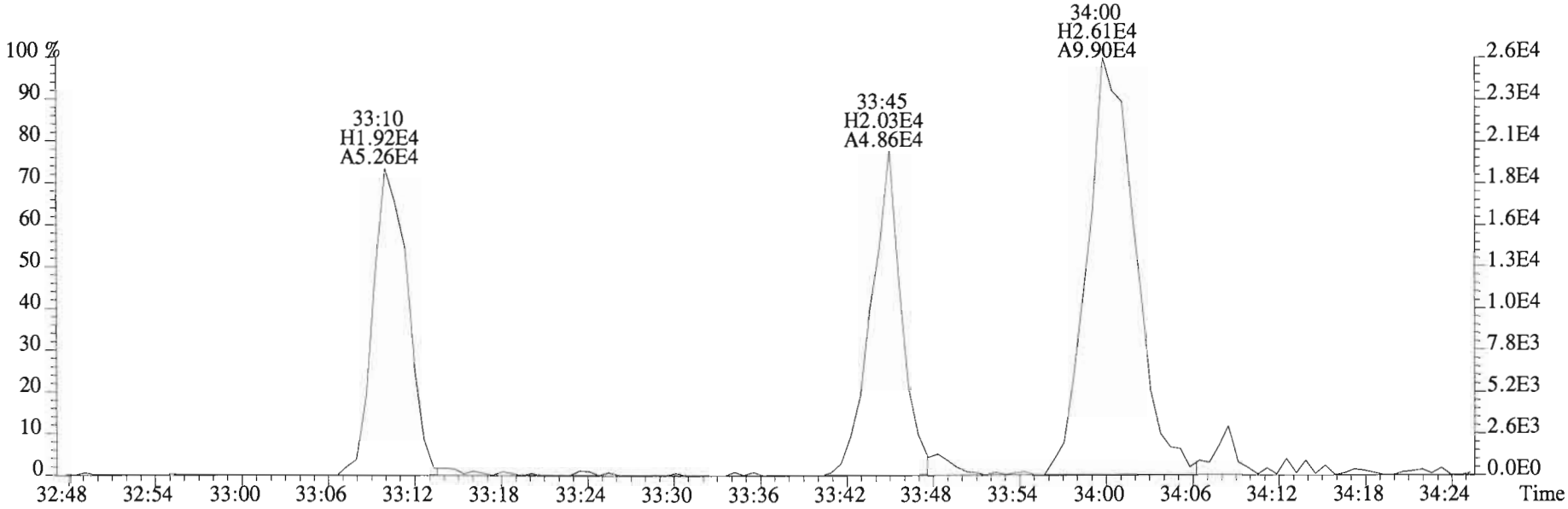
380.9760 S:13 F:3



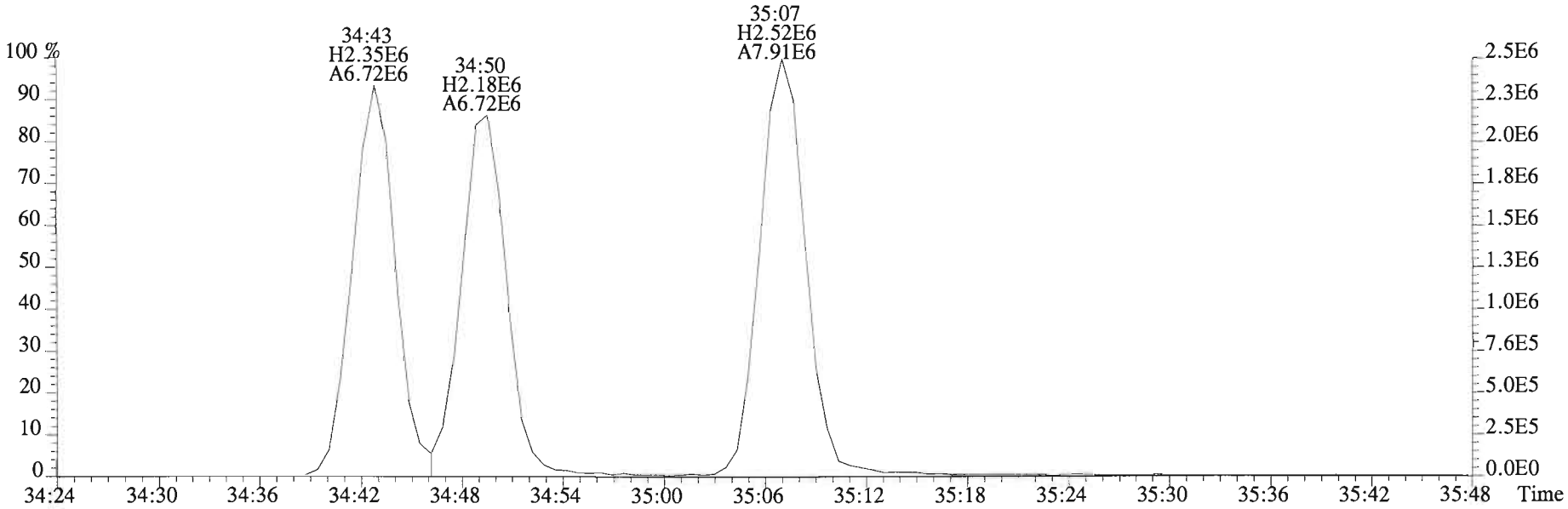
File:150130D2 #1-393 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



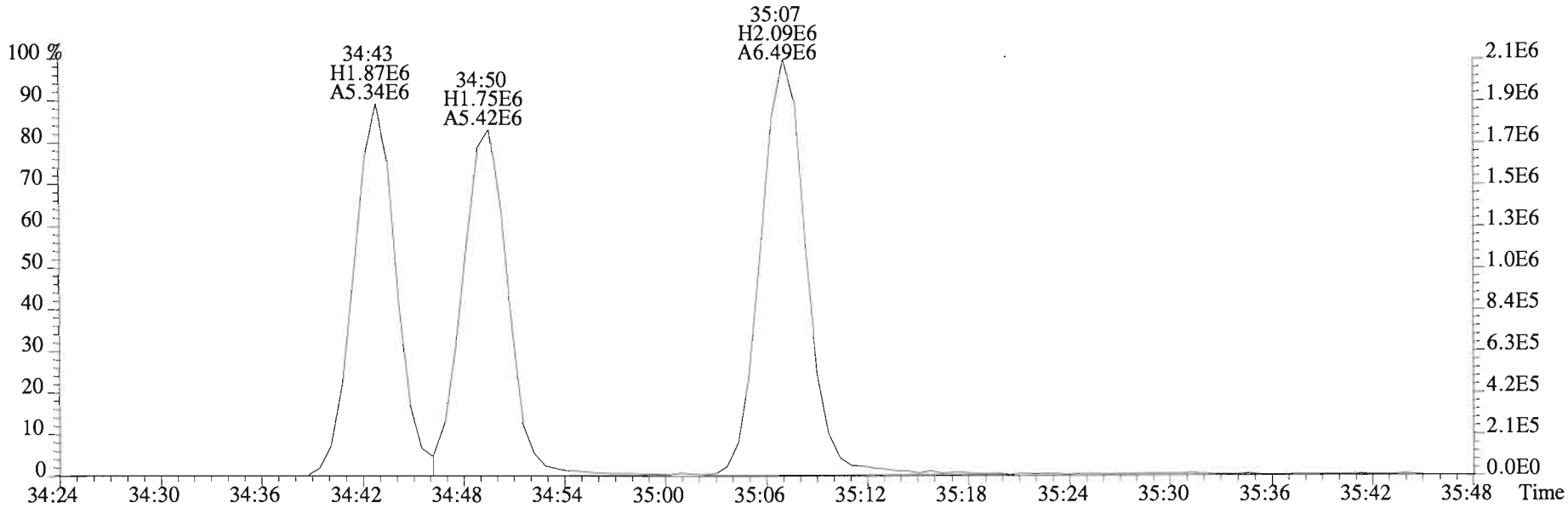
391.8127 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



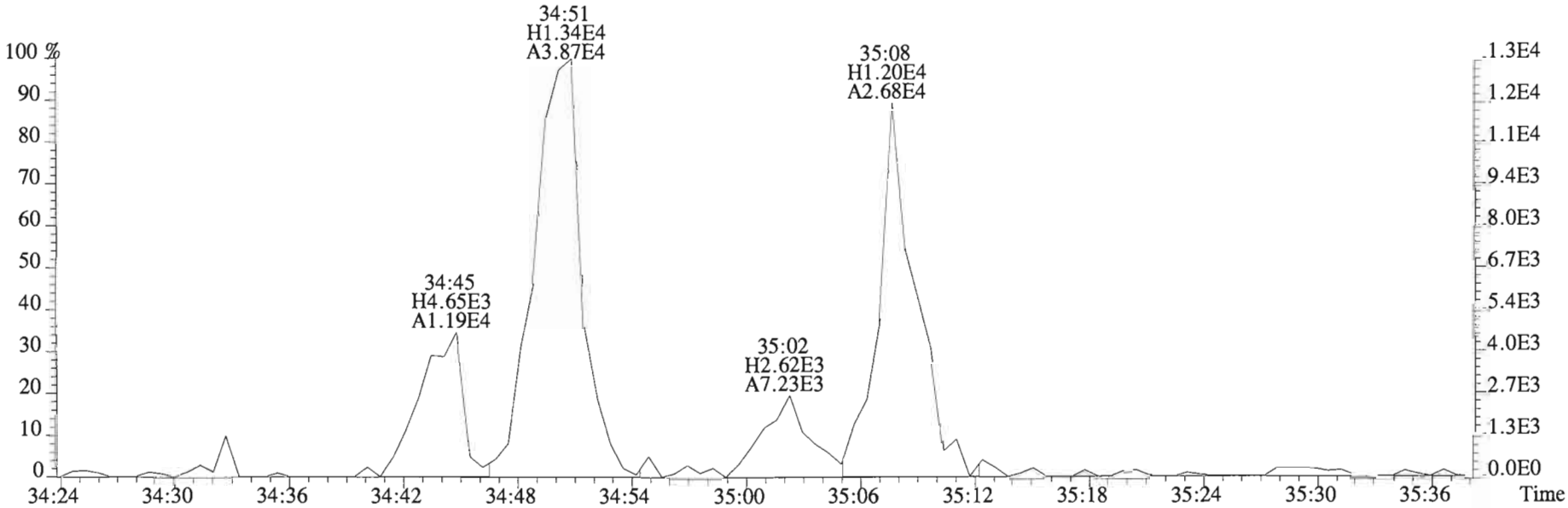
File:150130D2 #1-393 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
401.8559 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



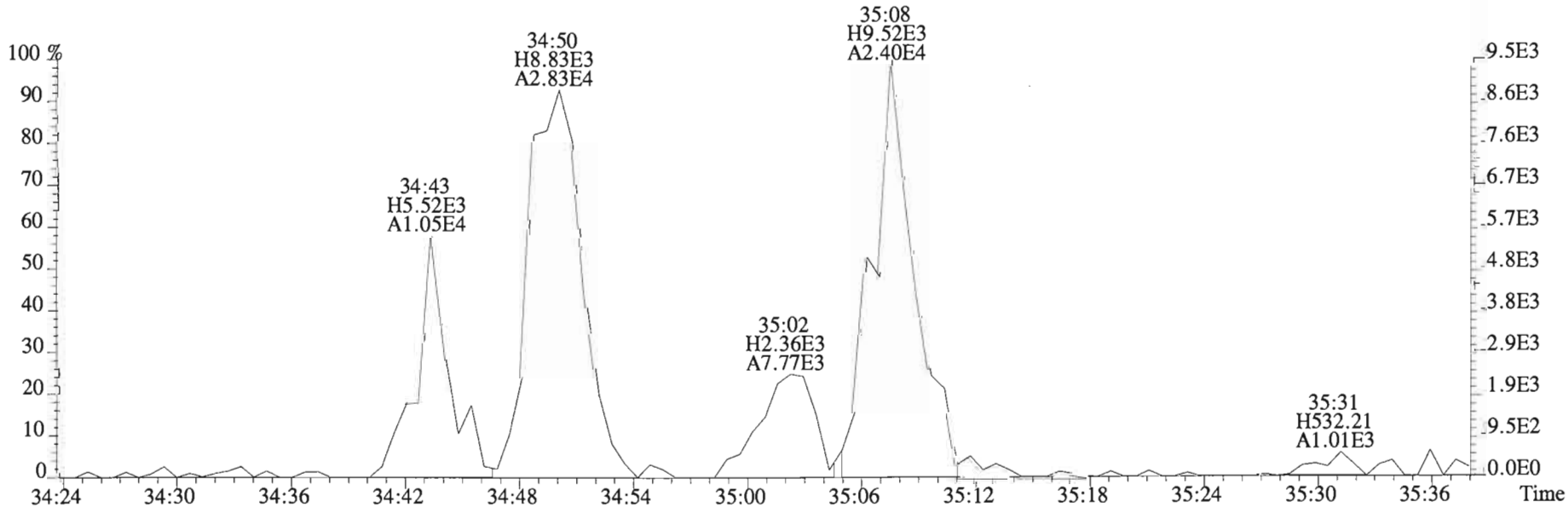
403.8530 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



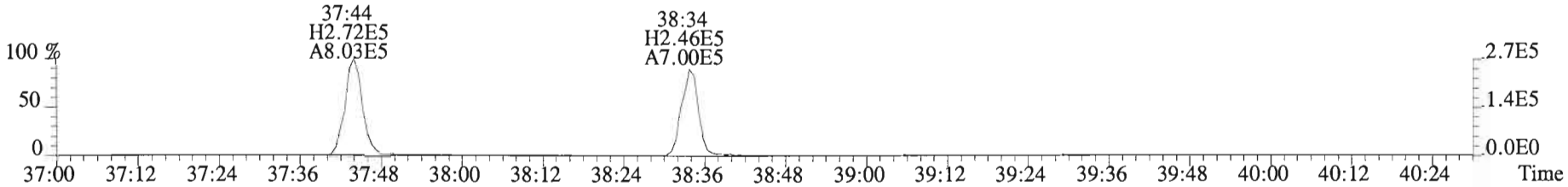
File:150130D2 #1-393 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



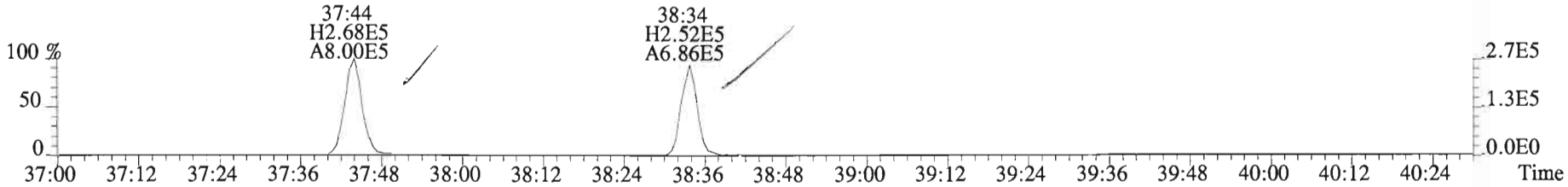
391.8127 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



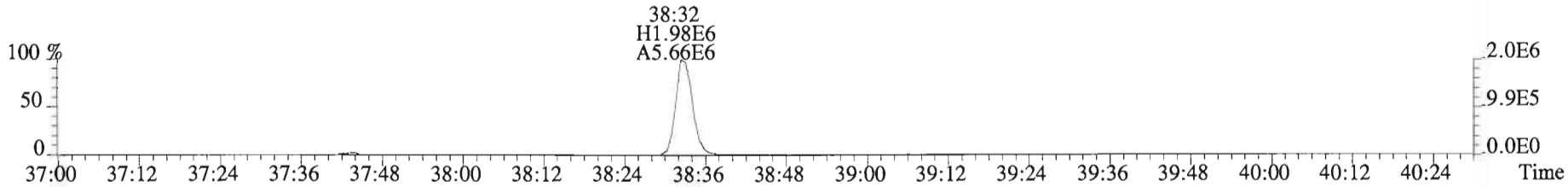
File:150130D2 #1-325 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



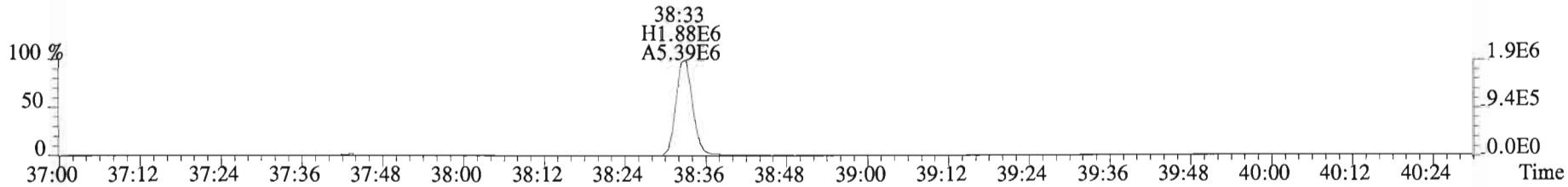
425.7737 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



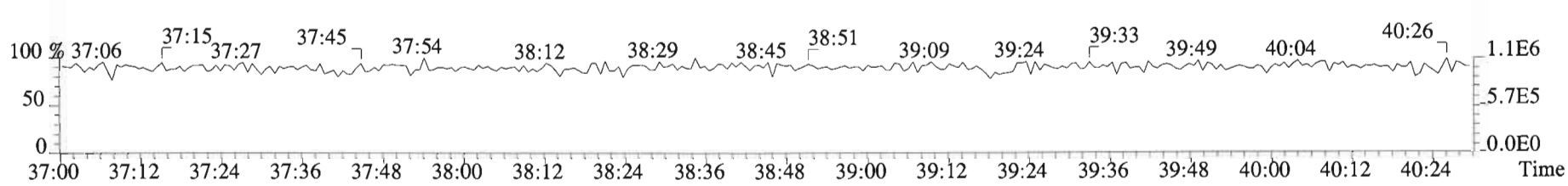
435.8169 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



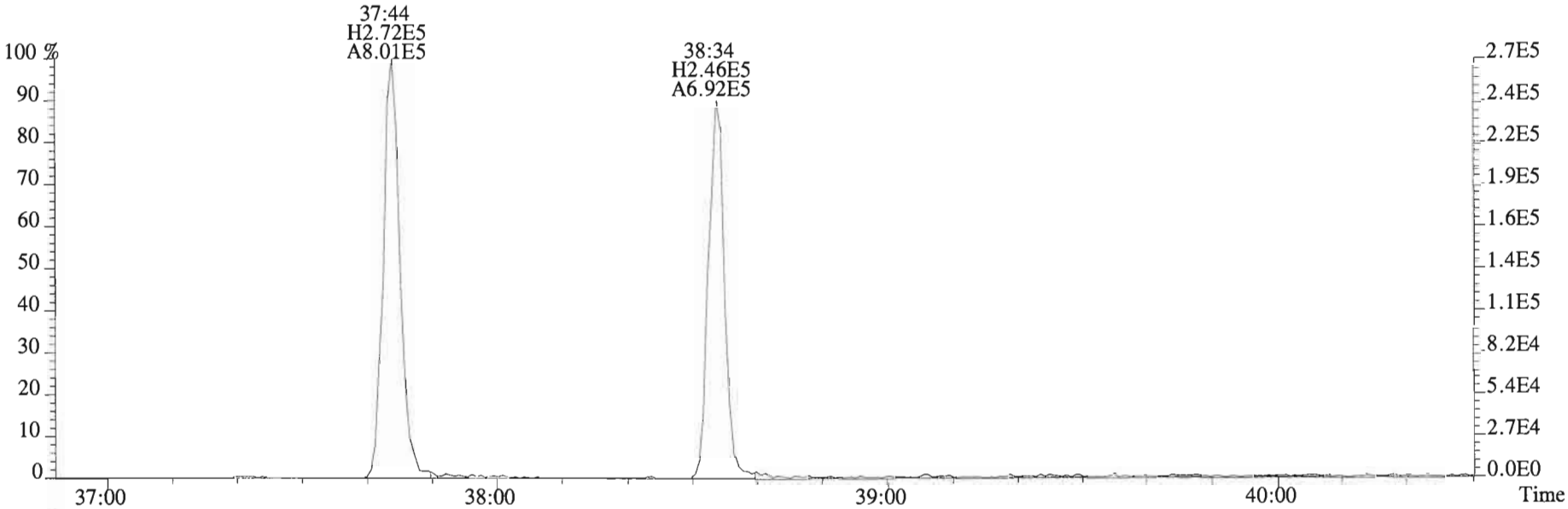
437.8140 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



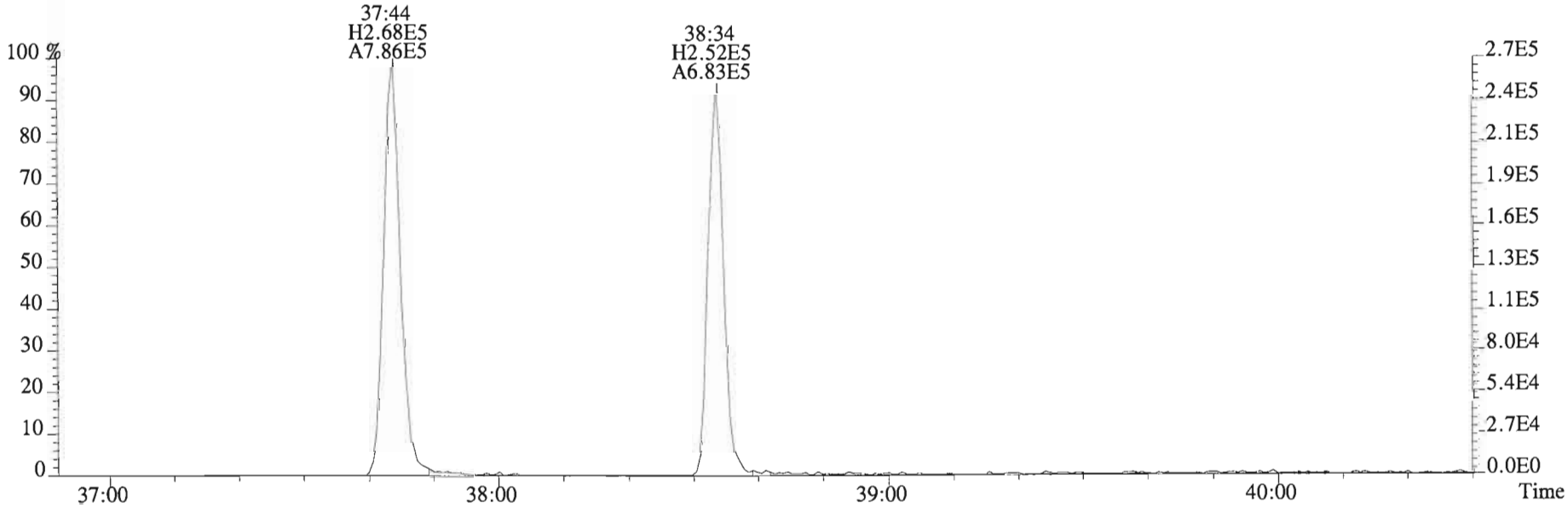
430.9728 S:13 F:4



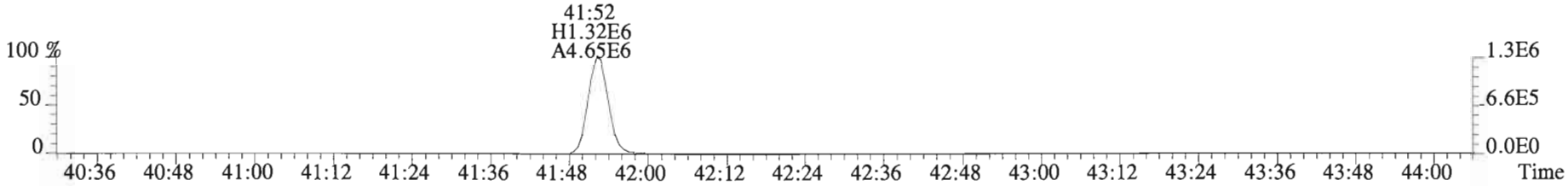
File:150130D2 #1-325 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



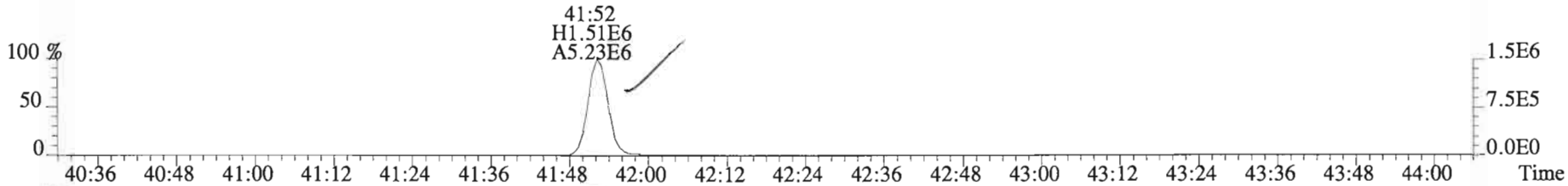
425.7737 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



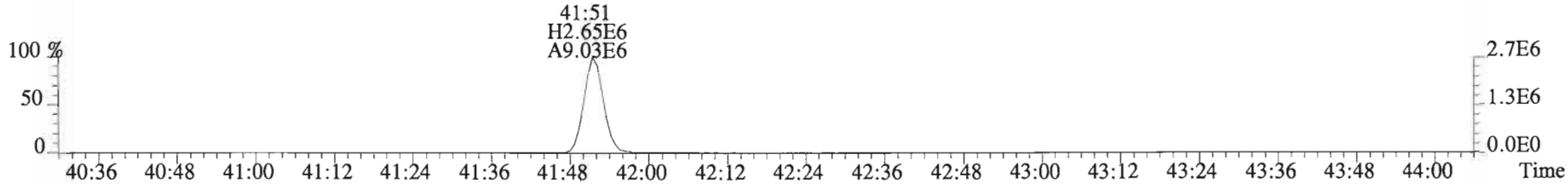
File:150130D2 #1-389 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
457.7377 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



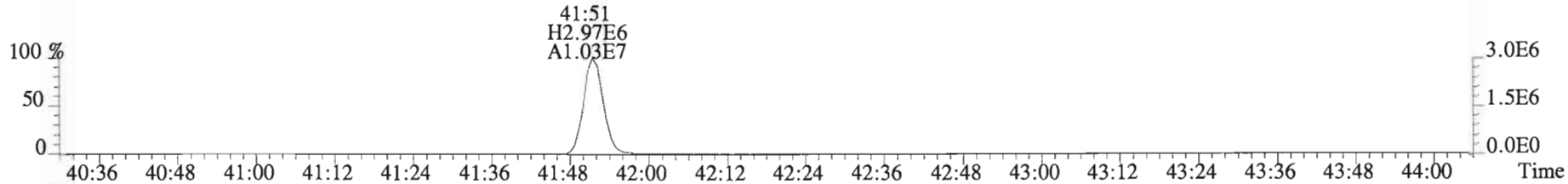
459.7348 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



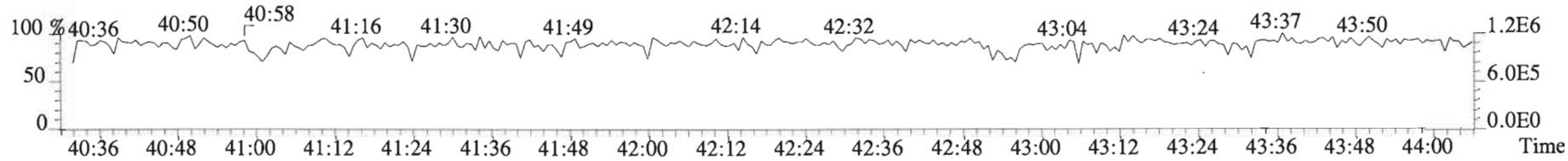
469.7780 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



471.7750 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

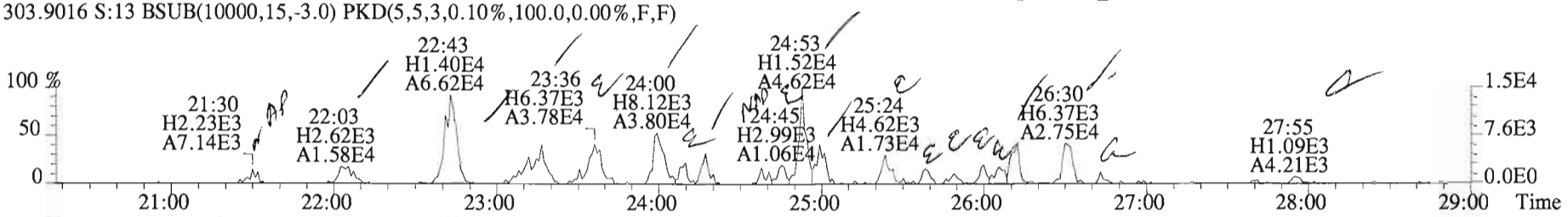


454.9728 S:13 F:5

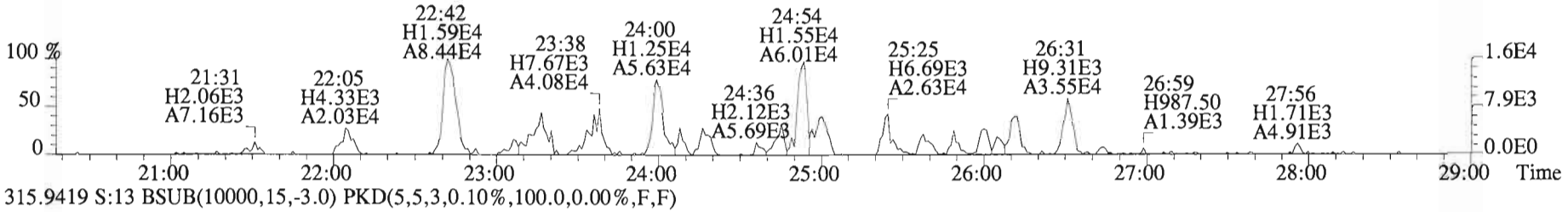


File:150130D2 #1-551 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5

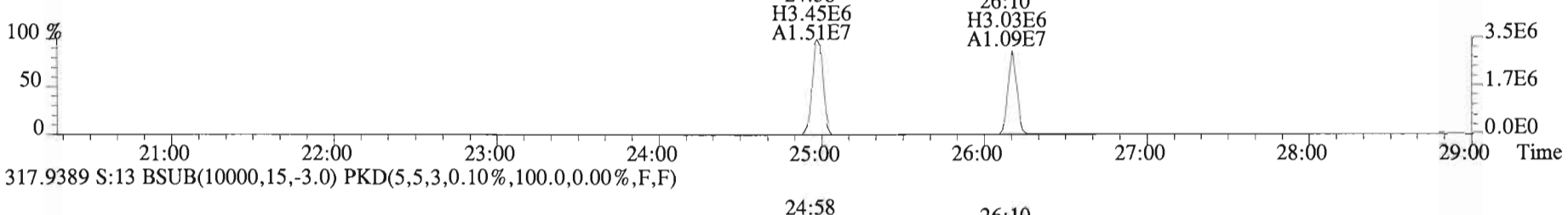
303.9016 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



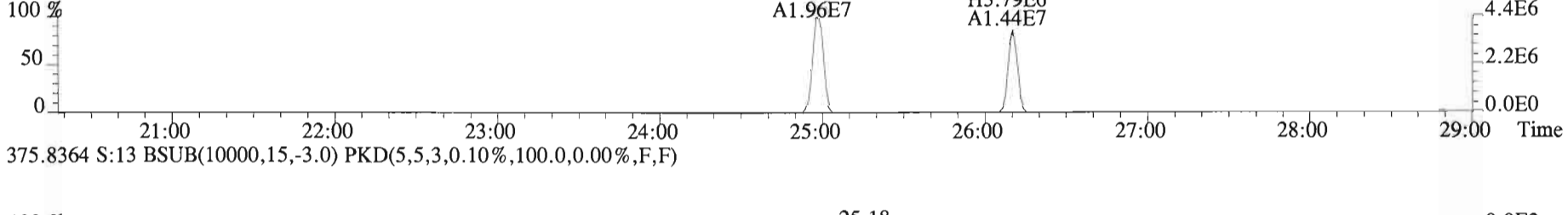
305.8987 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



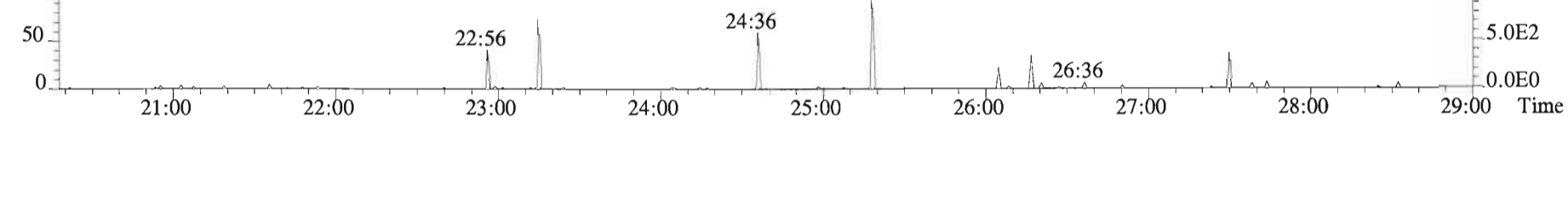
315.9419 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



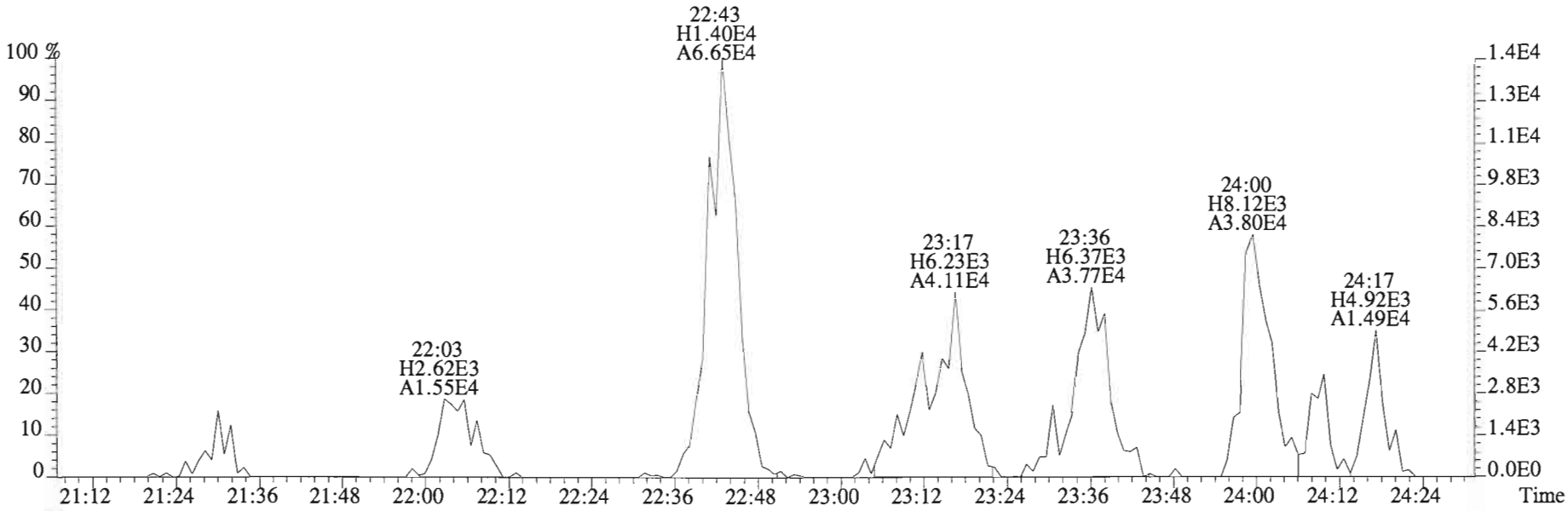
317.9389 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



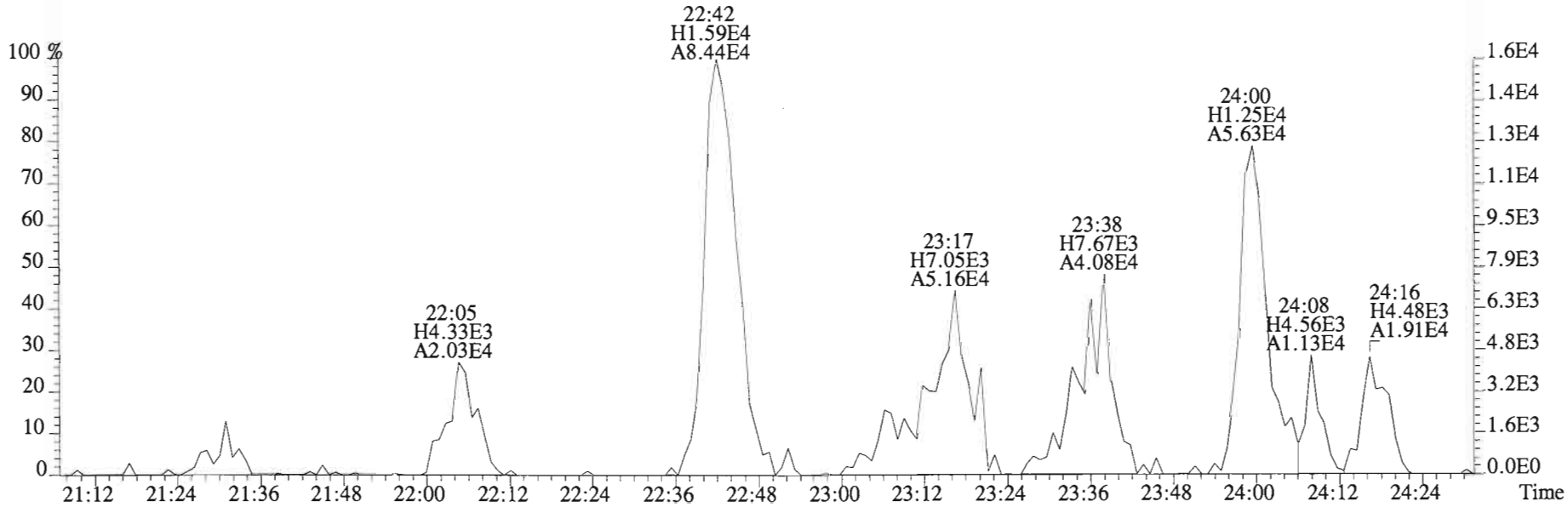
375.8364 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



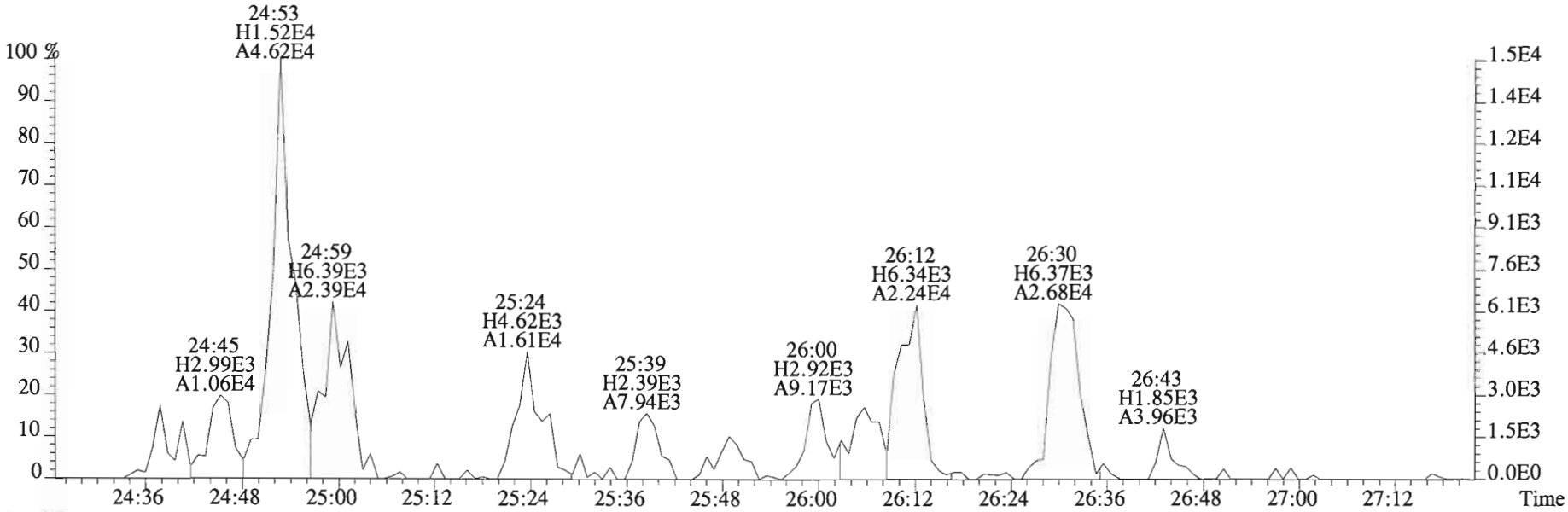
File:150130D2 #1-551 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
303.9016 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



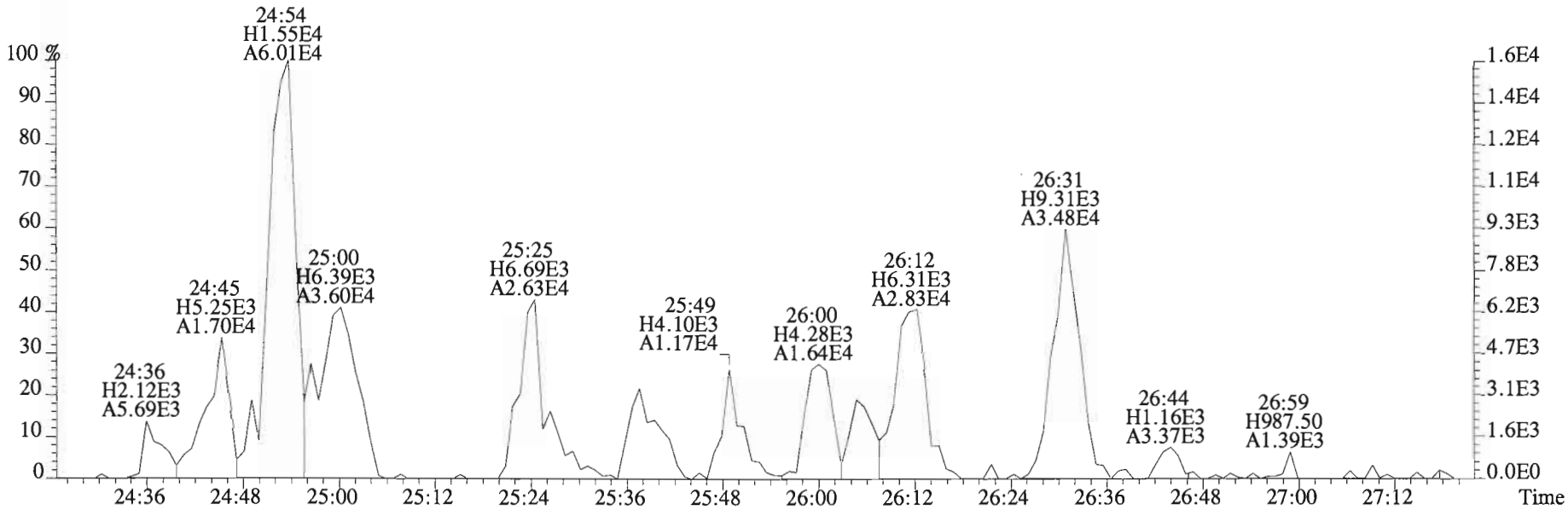
305.8987 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



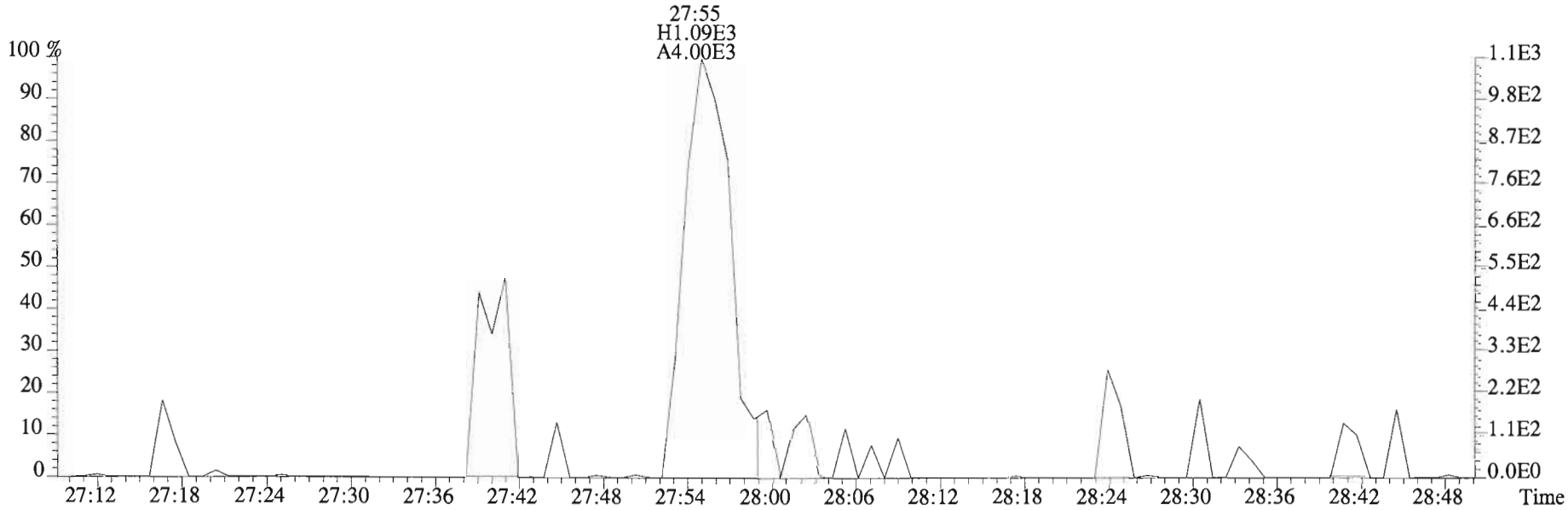
File:150130D2 #1-551 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
303.9016 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



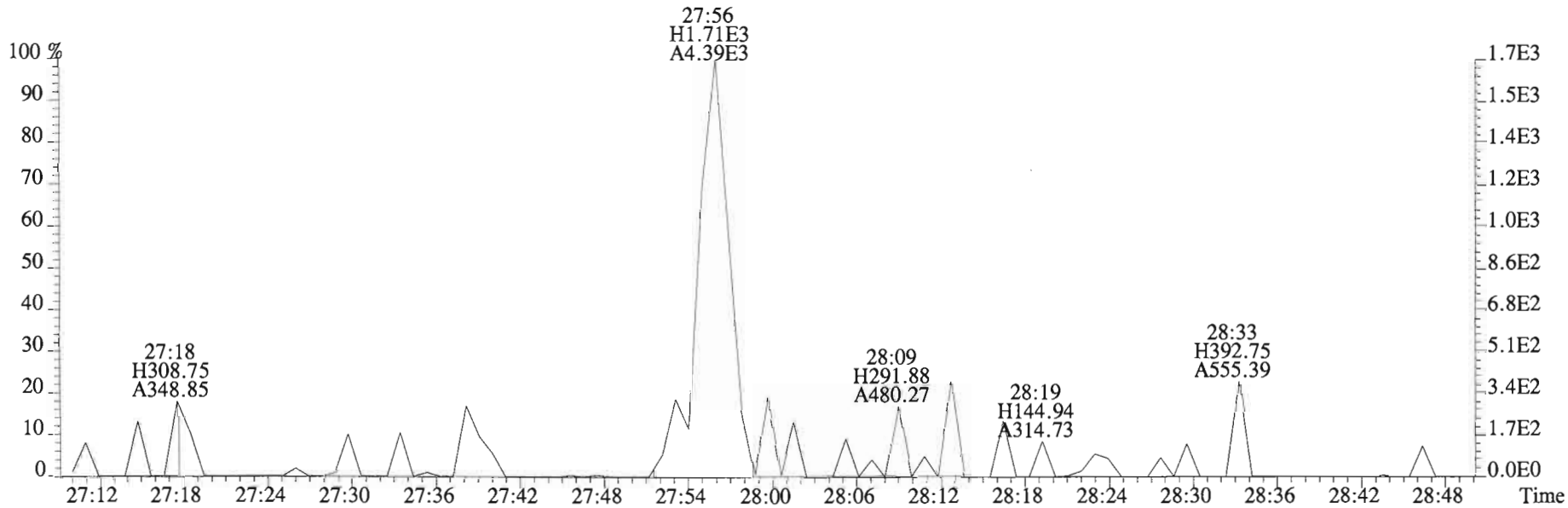
305.8987 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



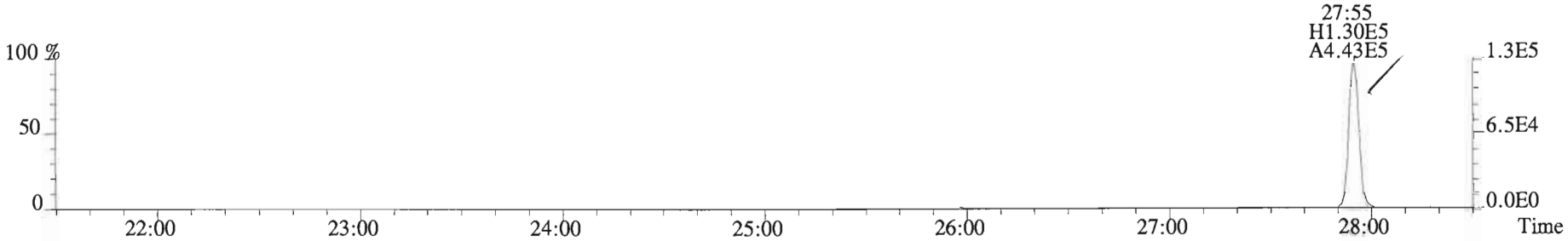
File:150130D2 #1-551 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
303.9016 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



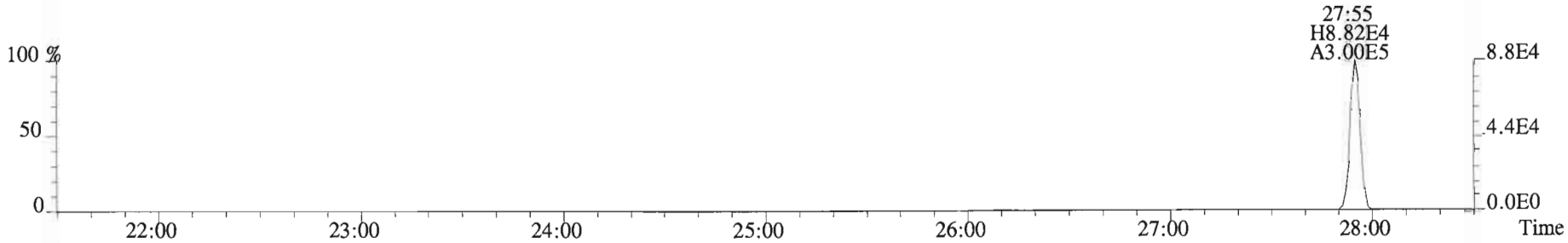
305.8987 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



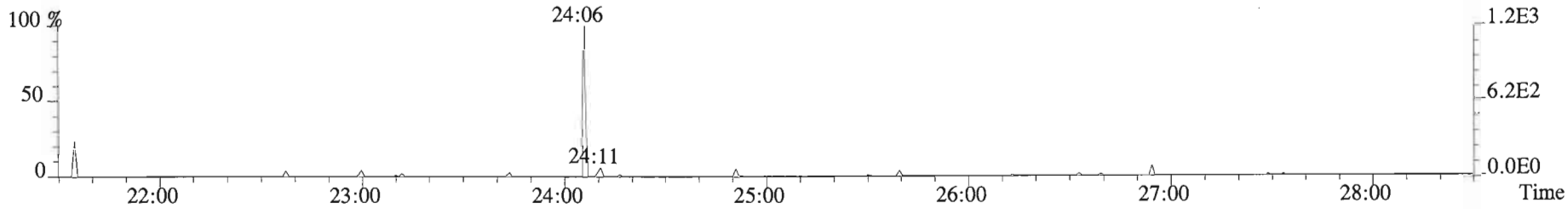
File:150130D2 #1-551 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
339.8597 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



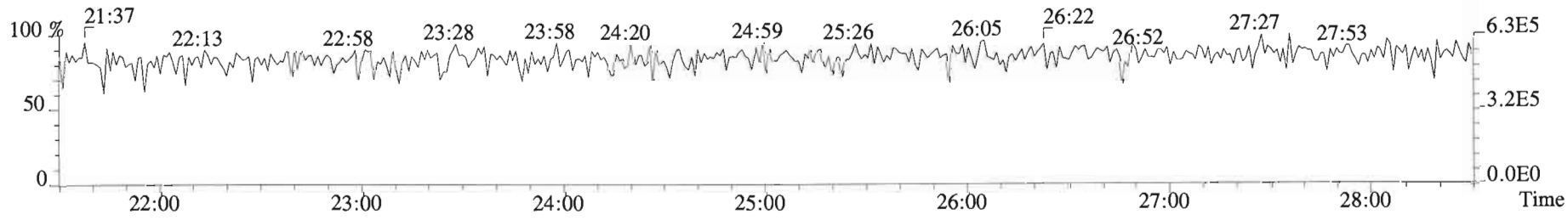
341.8568 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



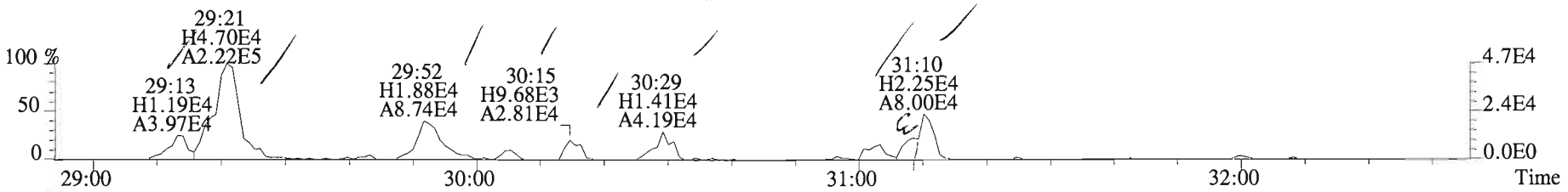
409.7974 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



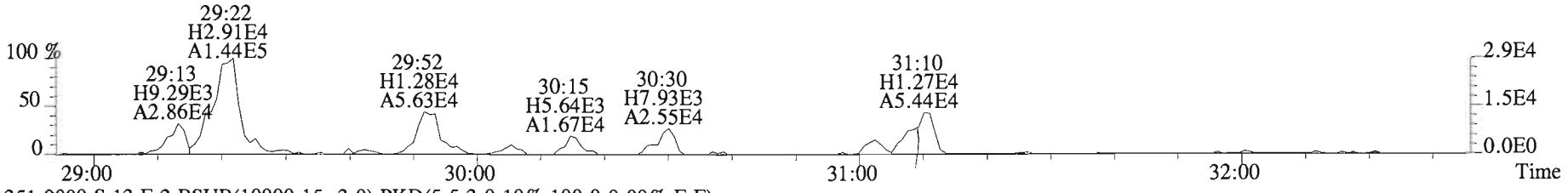
316.9824 S:13



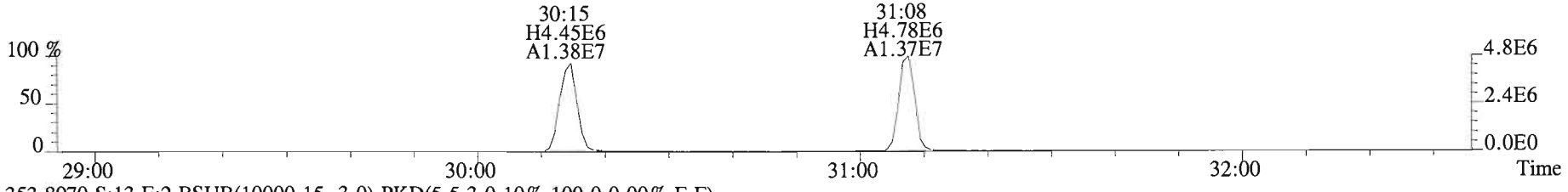
File:150130D2 #1-251 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
339.8597 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



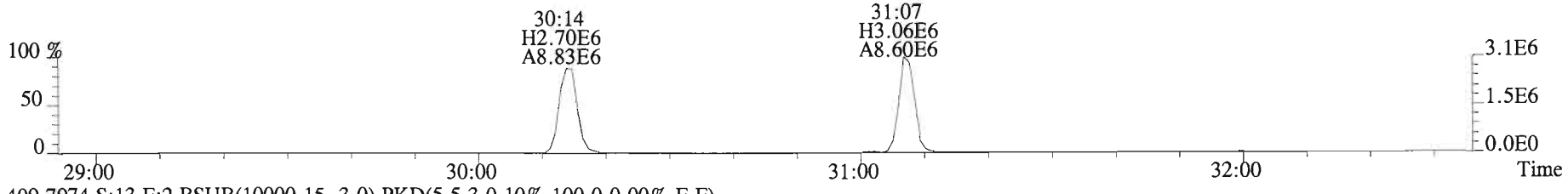
341.8568 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



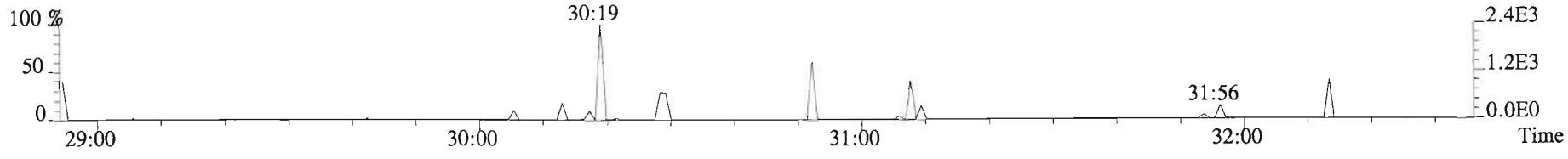
351.9000 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



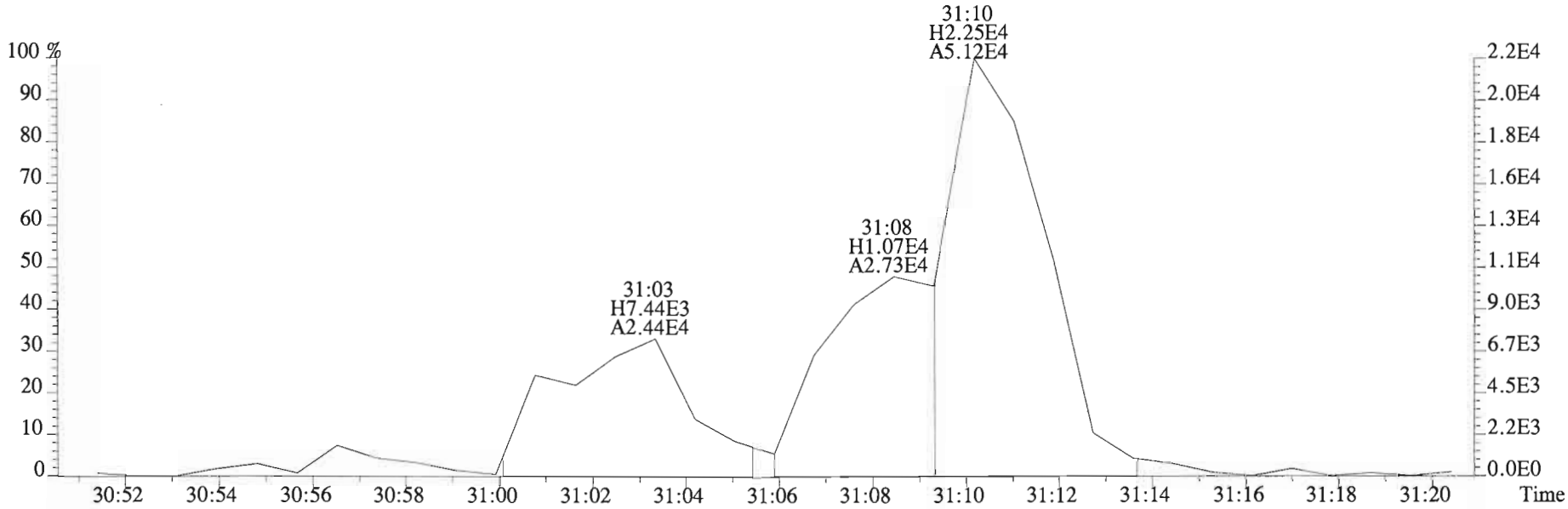
353.8970 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



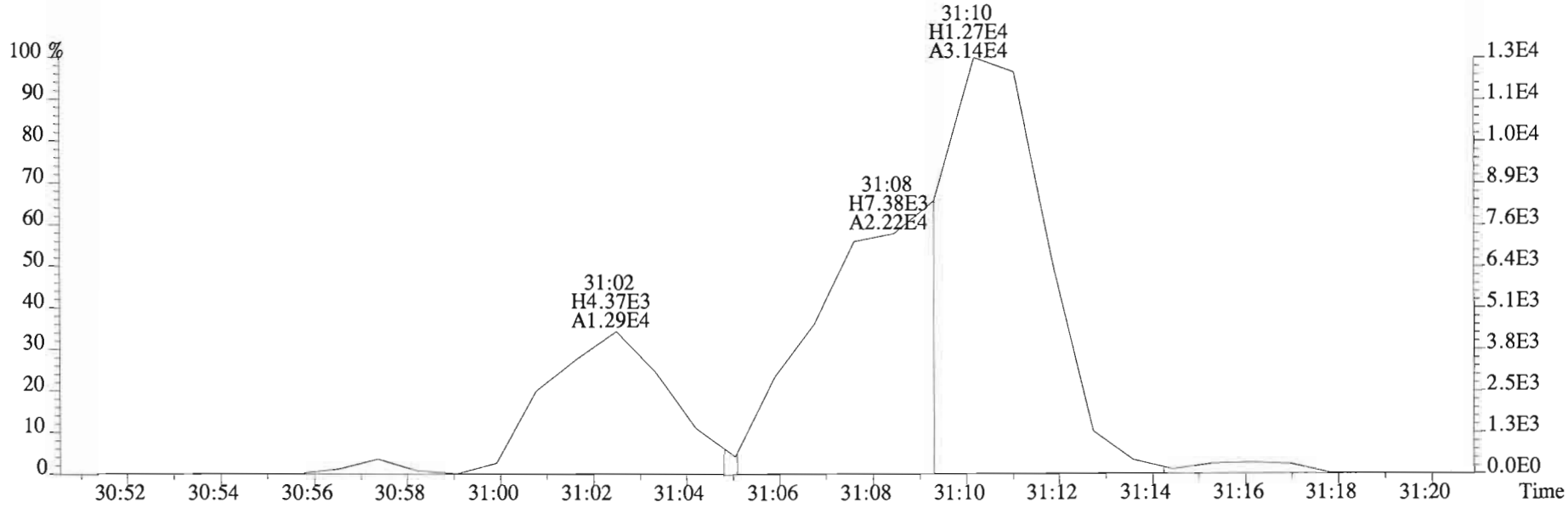
409.7974 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



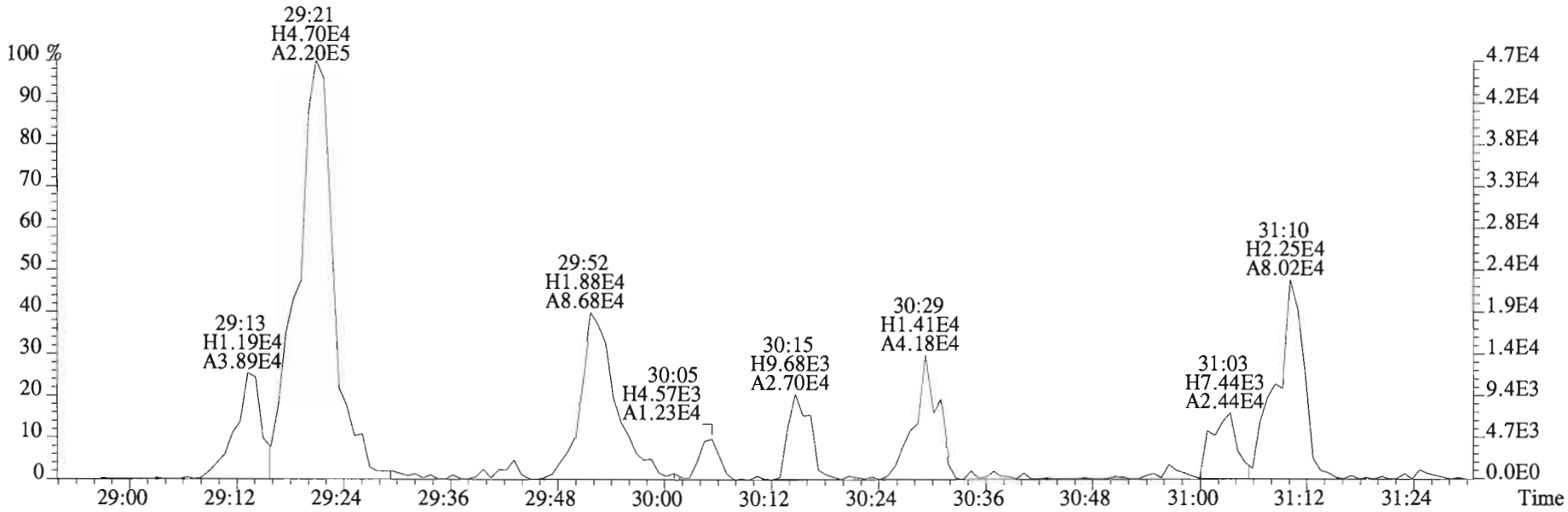
File:150130D2 #1-251 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
339.8597 S:13 F:2 BSUB(10000,15,-3.0)



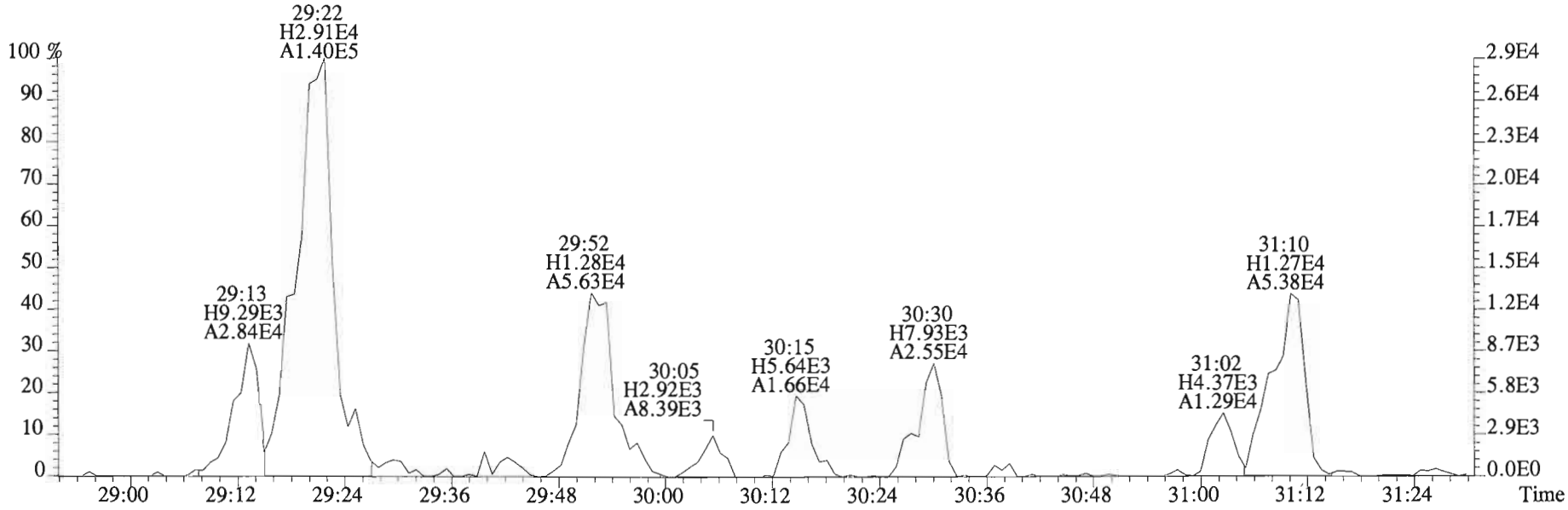
341.8568 S:13 F:2 BSUB(10000,15,-3.0)



File:150130D2 #1-251 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
339.8597 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

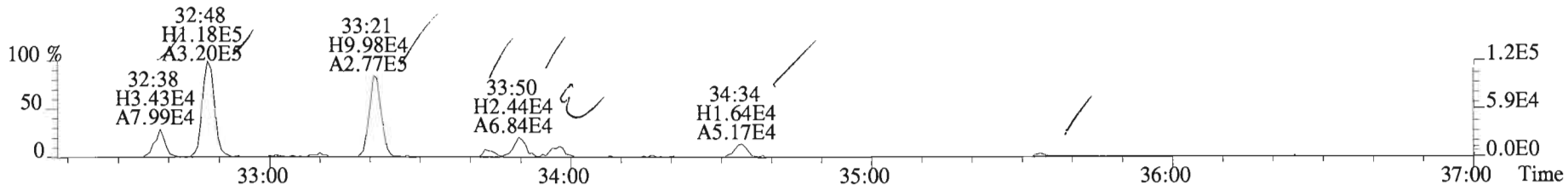


341.8568 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

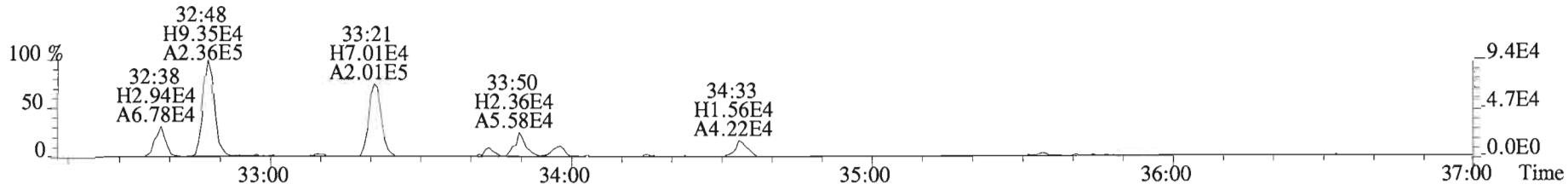


File:150130D2 #1-393 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5

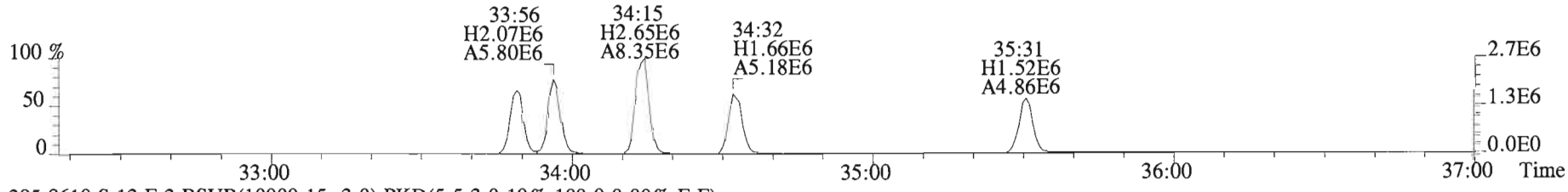
373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



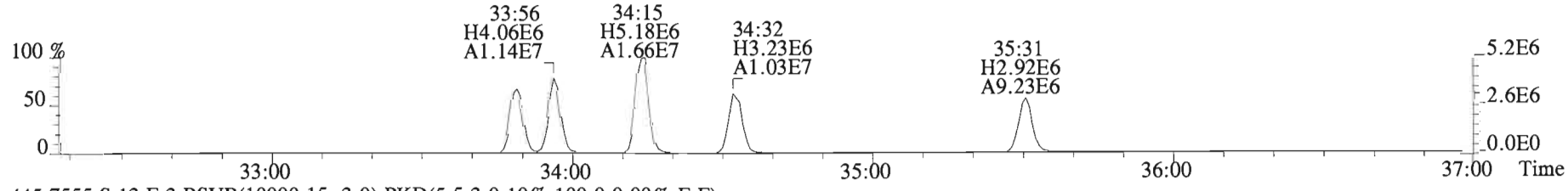
375.8178 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



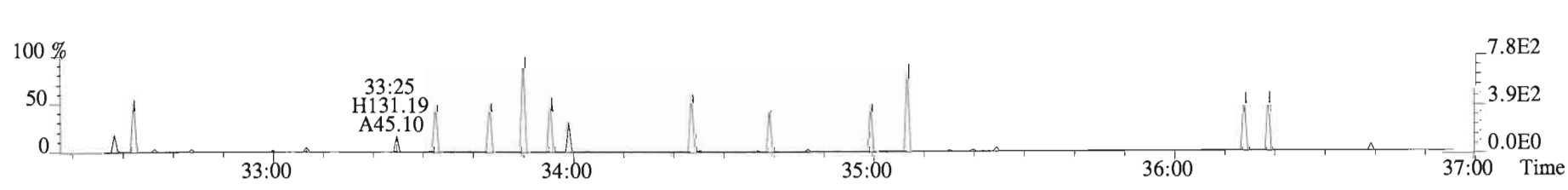
383.8639 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



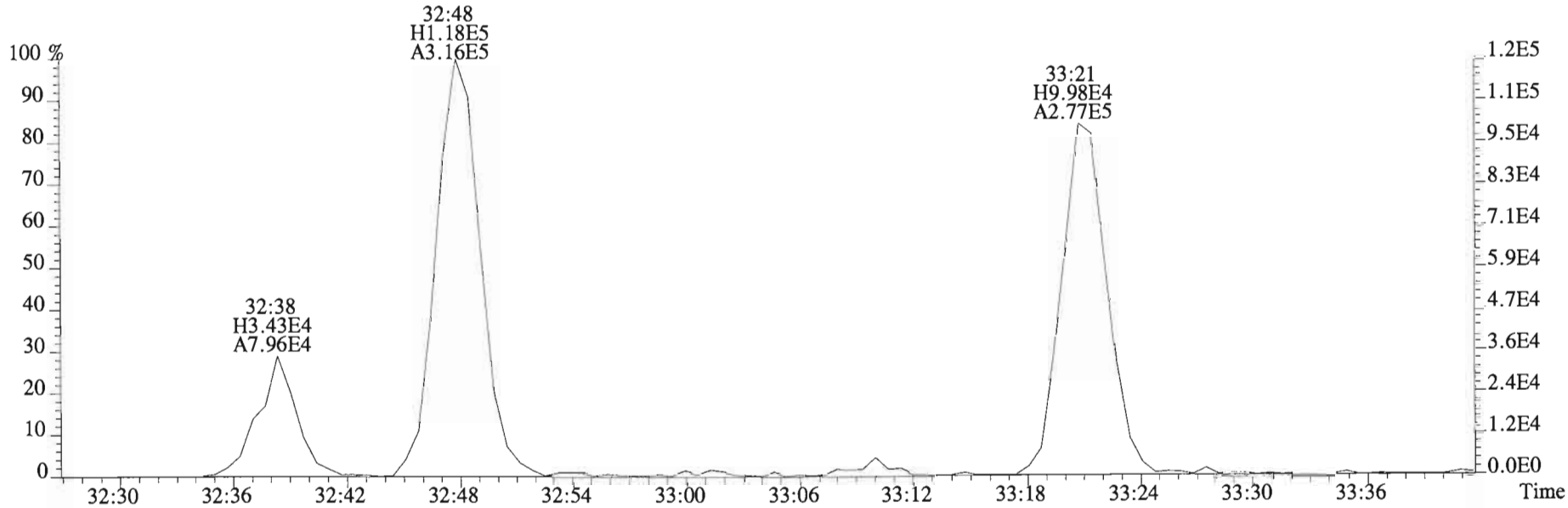
385.8610 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



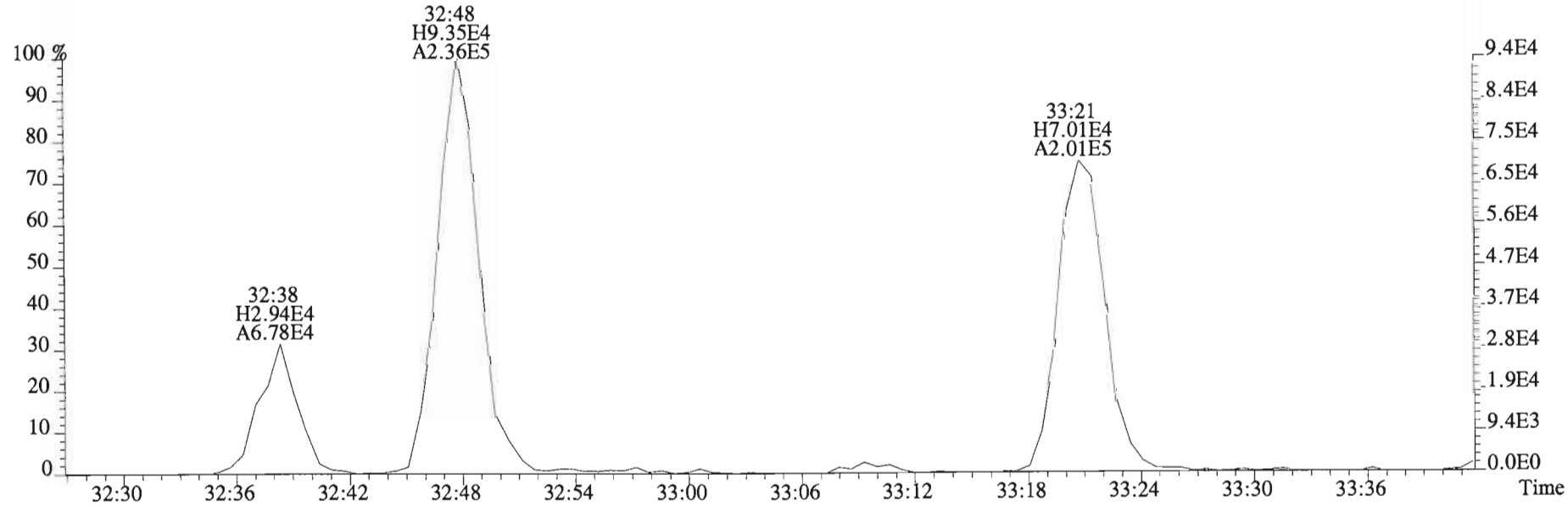
445.7555 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



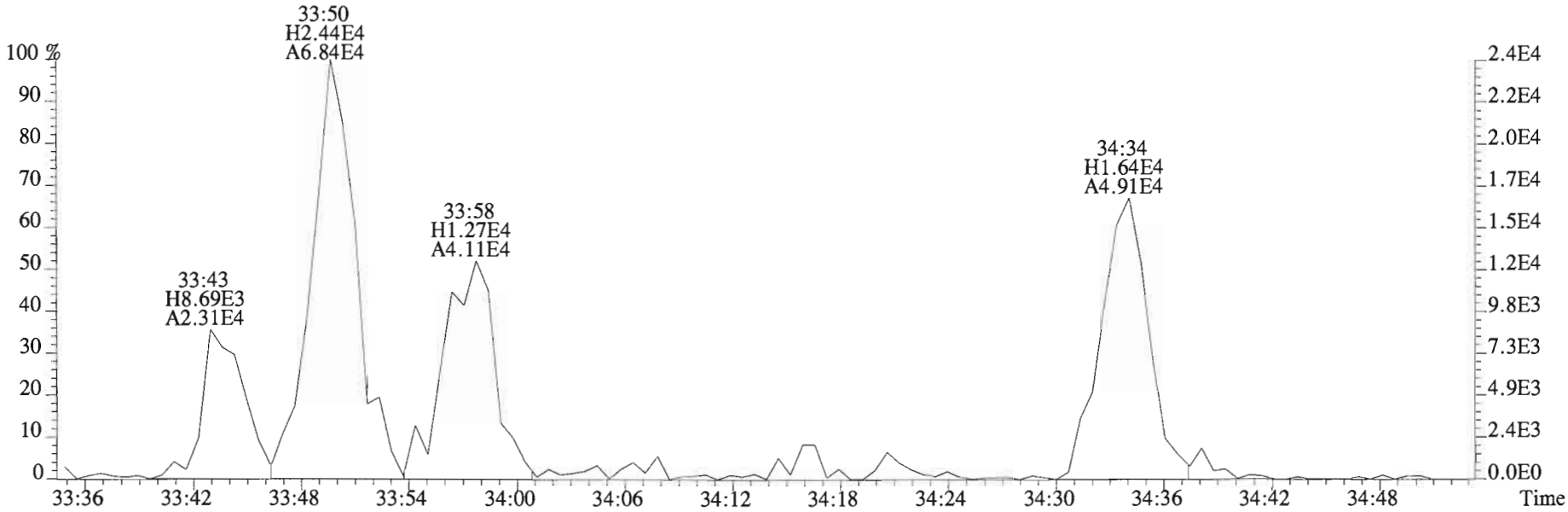
File:150130D2 #1-393 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



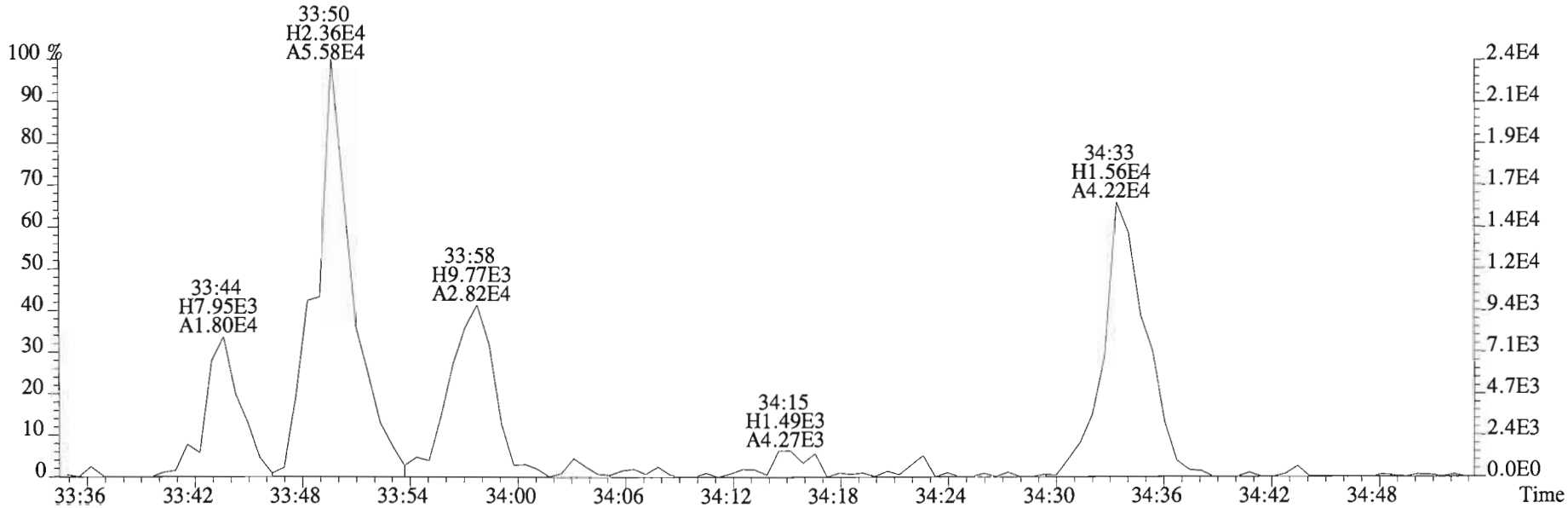
375.8178 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



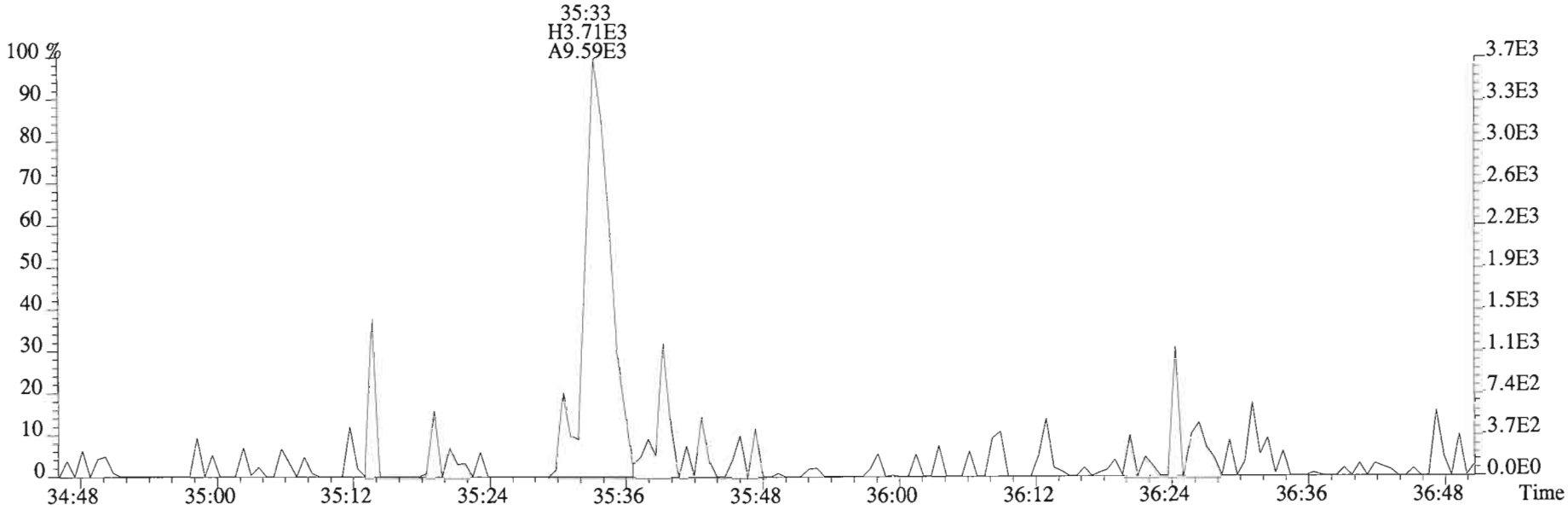
File:150130D2 #1-393 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



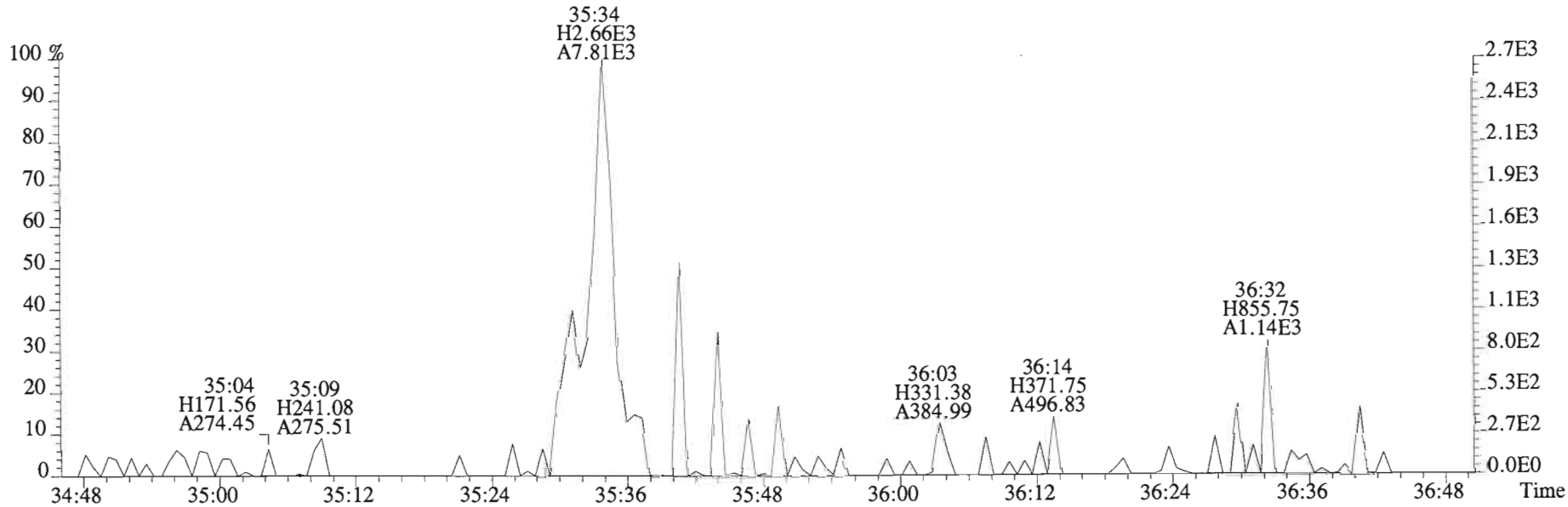
375.8178 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



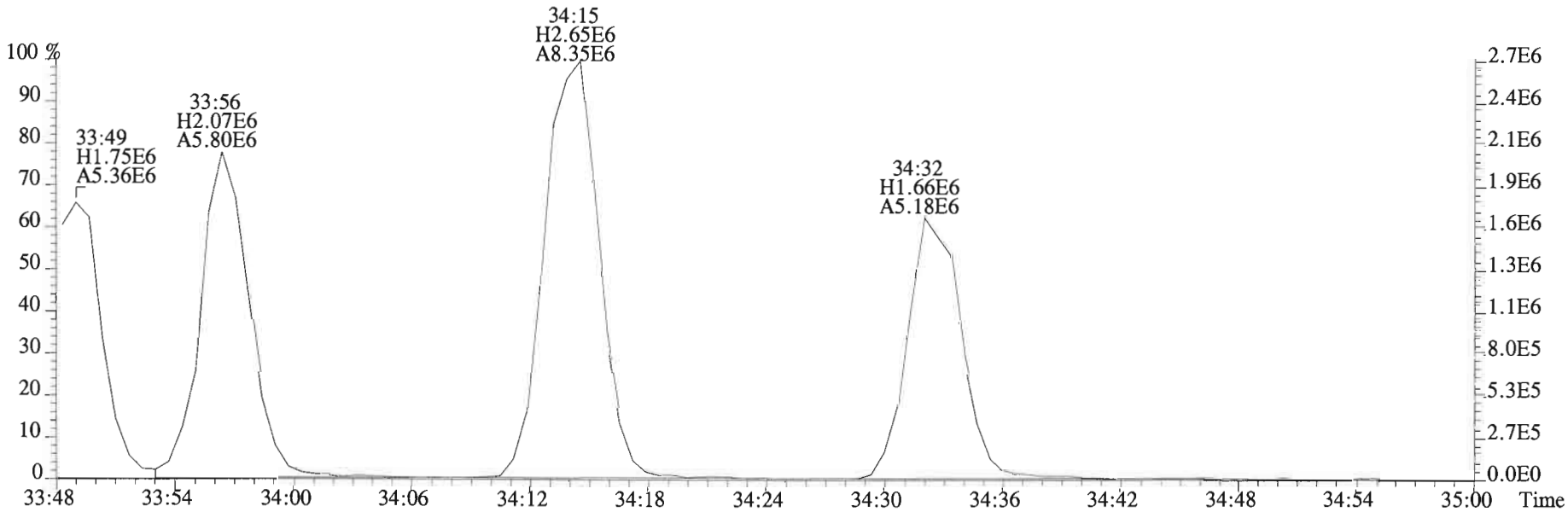
File:150130D2 #1-393 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



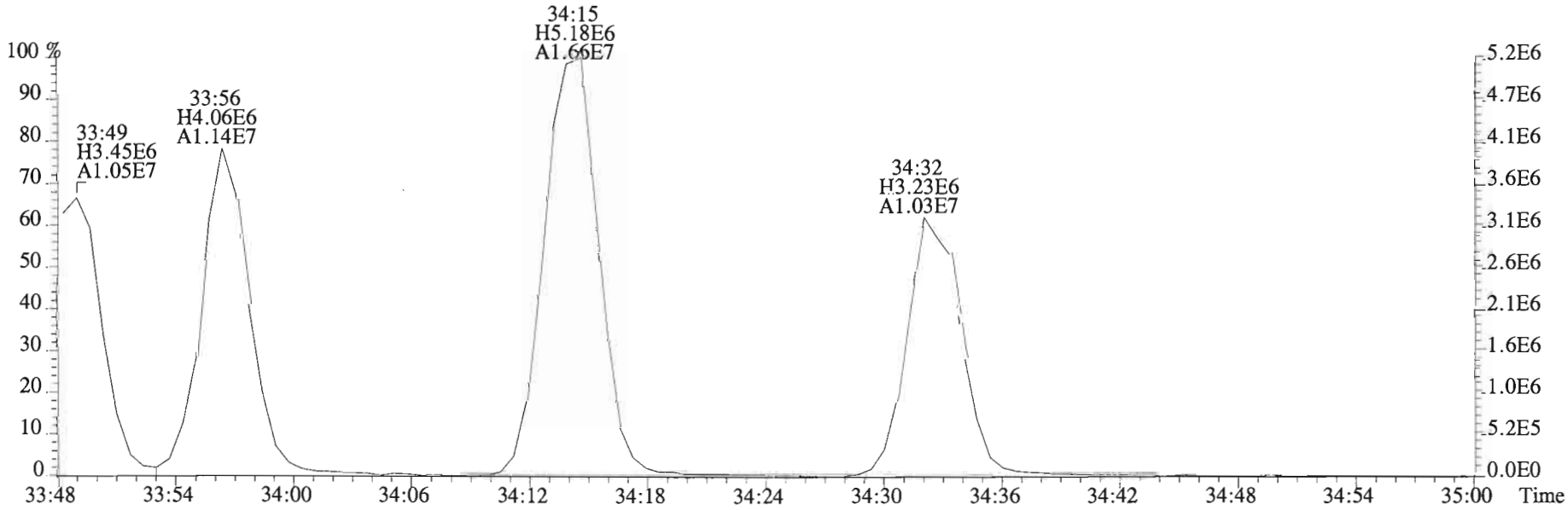
375.8178 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:150130D2 #1-393 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
383.8639 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

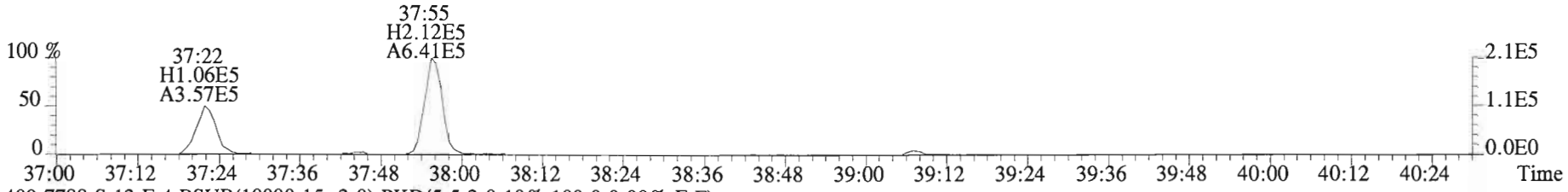


385.8610 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

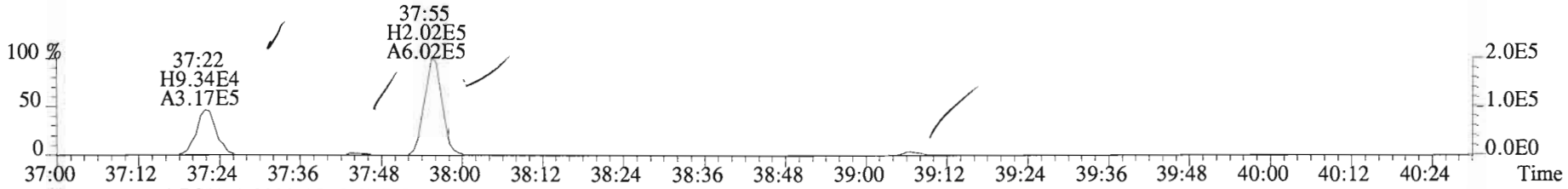


File:150130D2 #1-325 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5

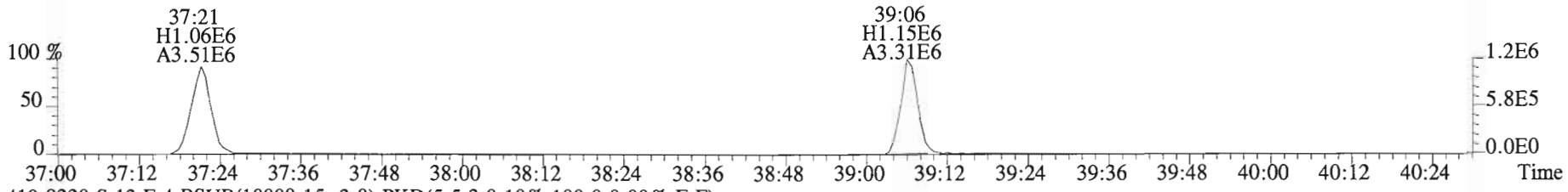
407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



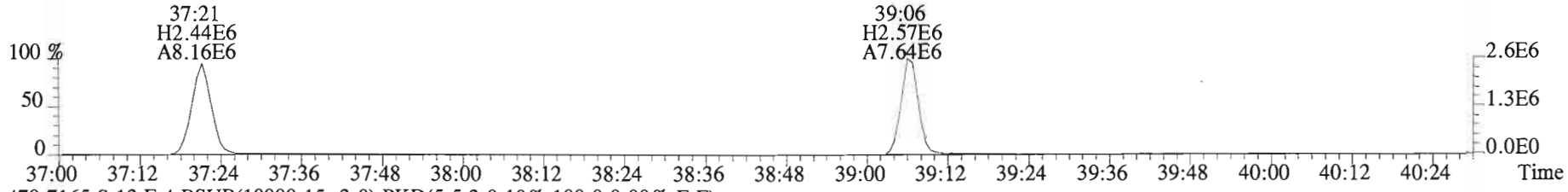
409.7788 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



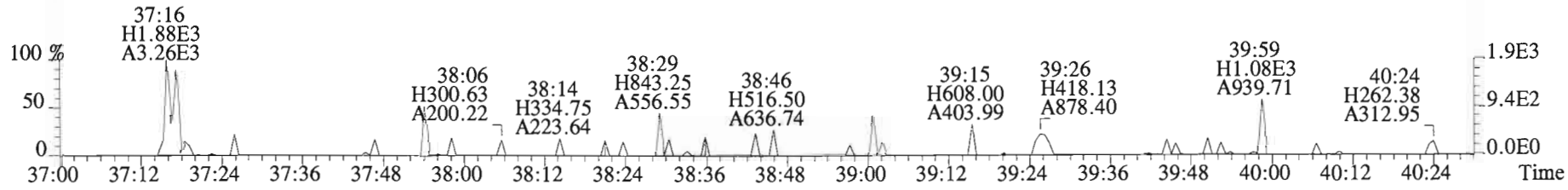
417.8253 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



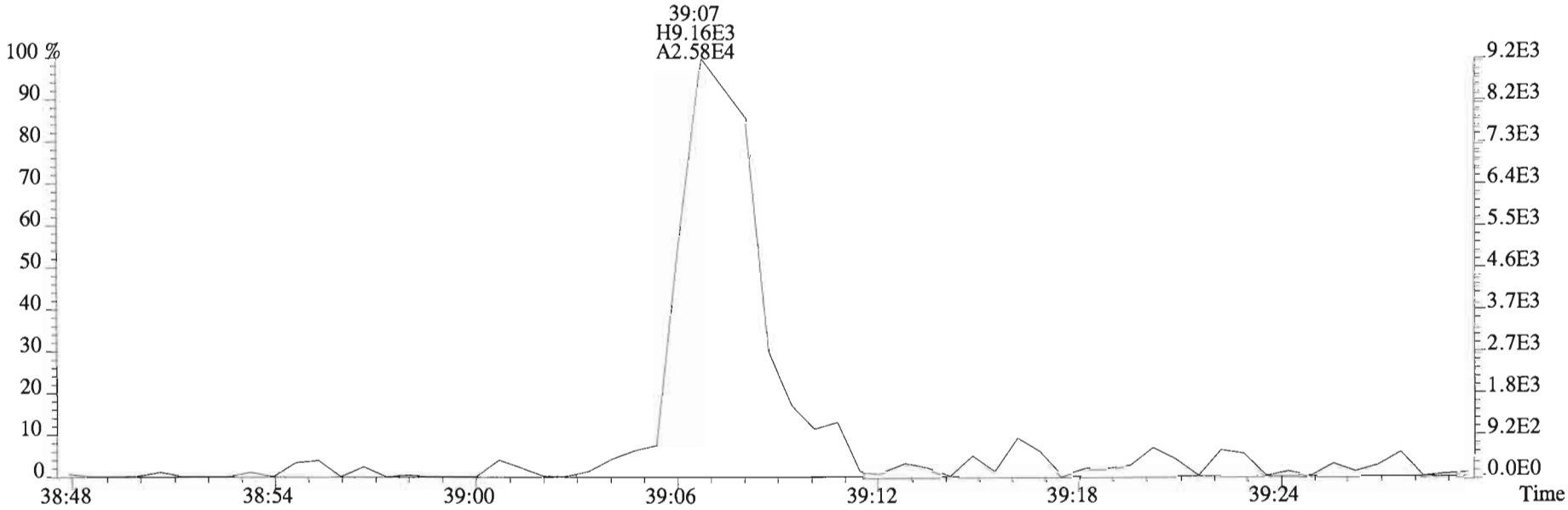
419.8220 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



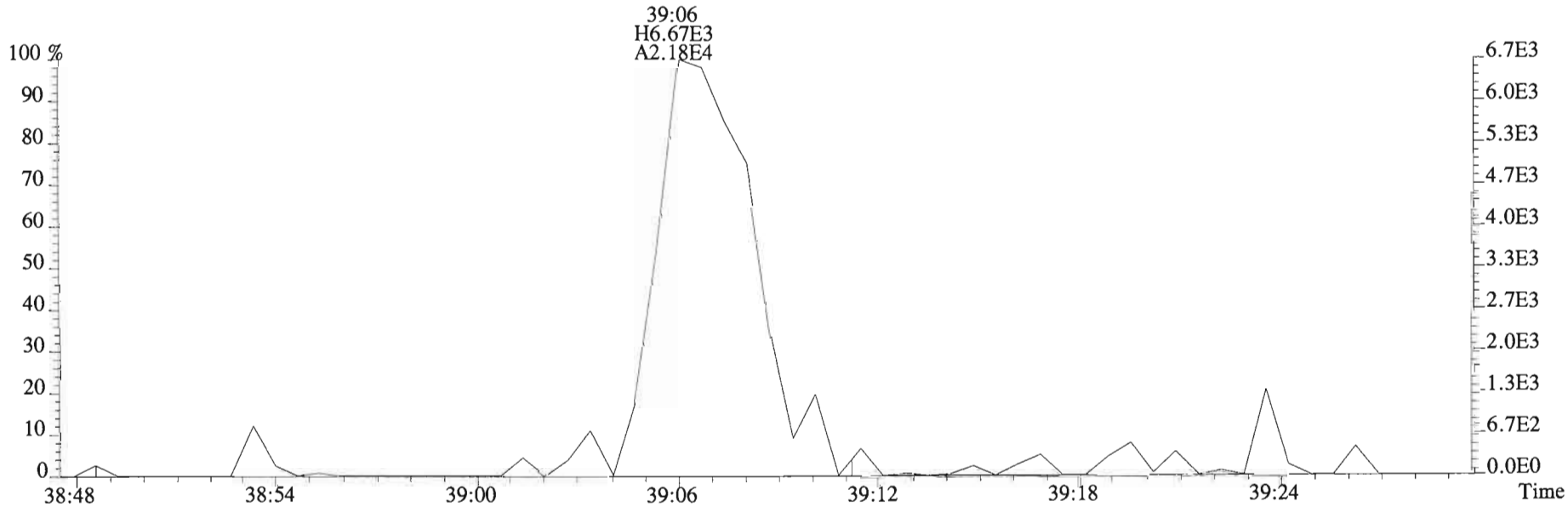
479.7165 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



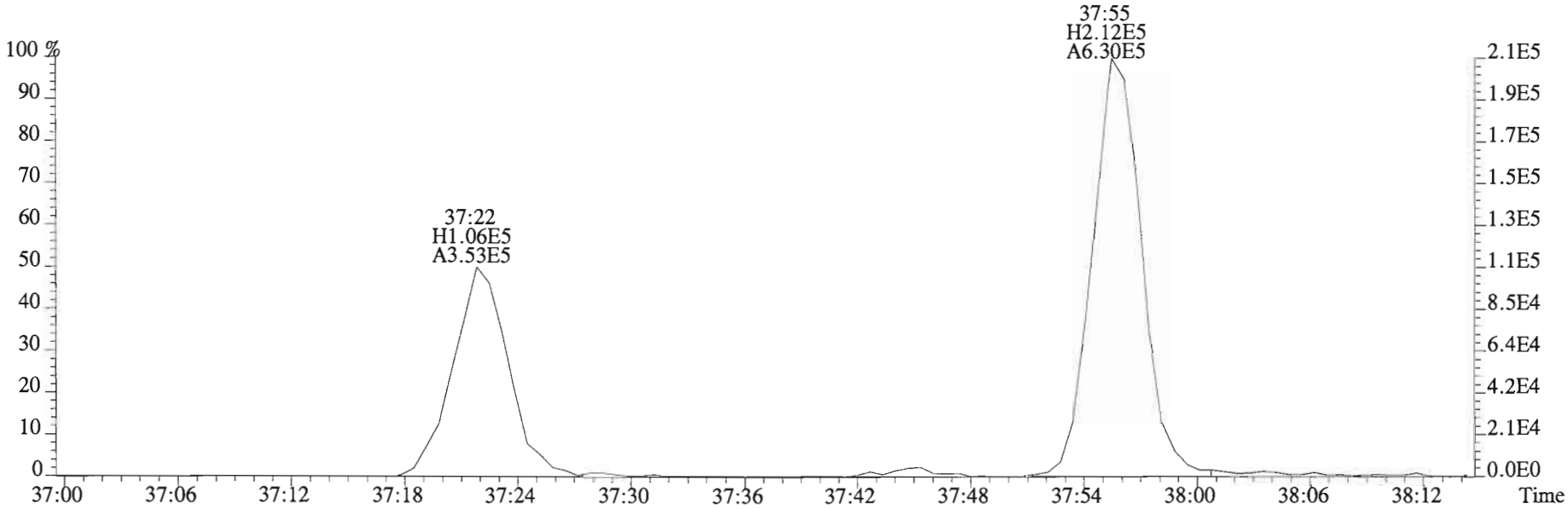
File:150130D2 #1-325 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



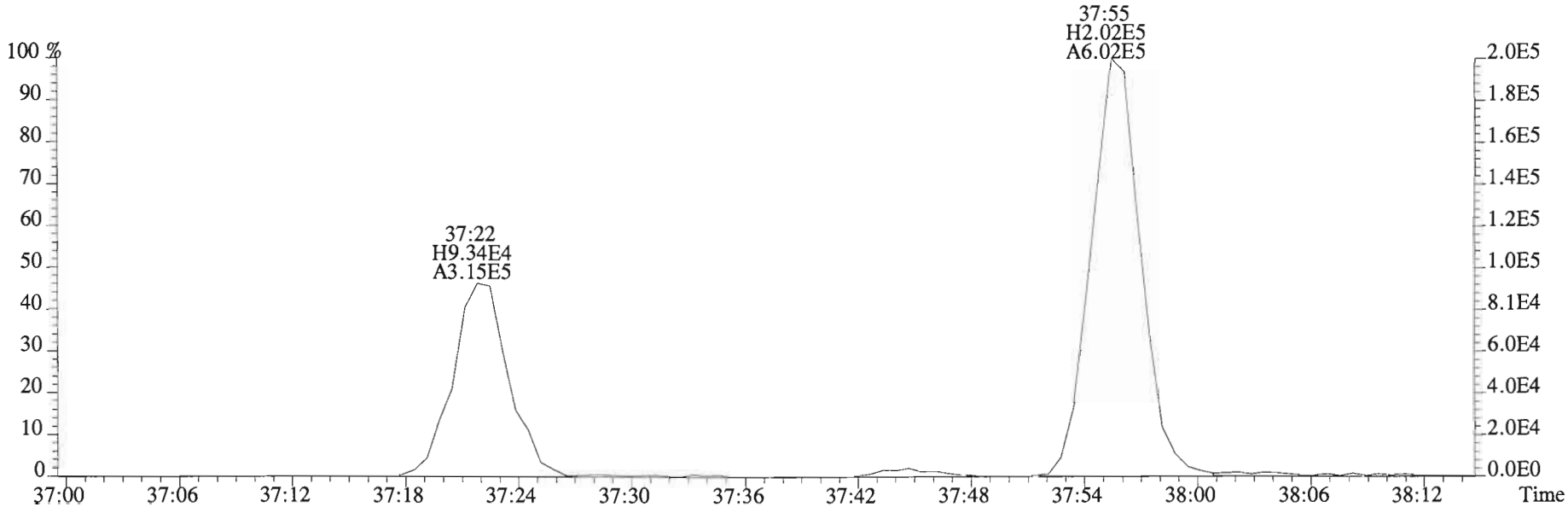
409.7788 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



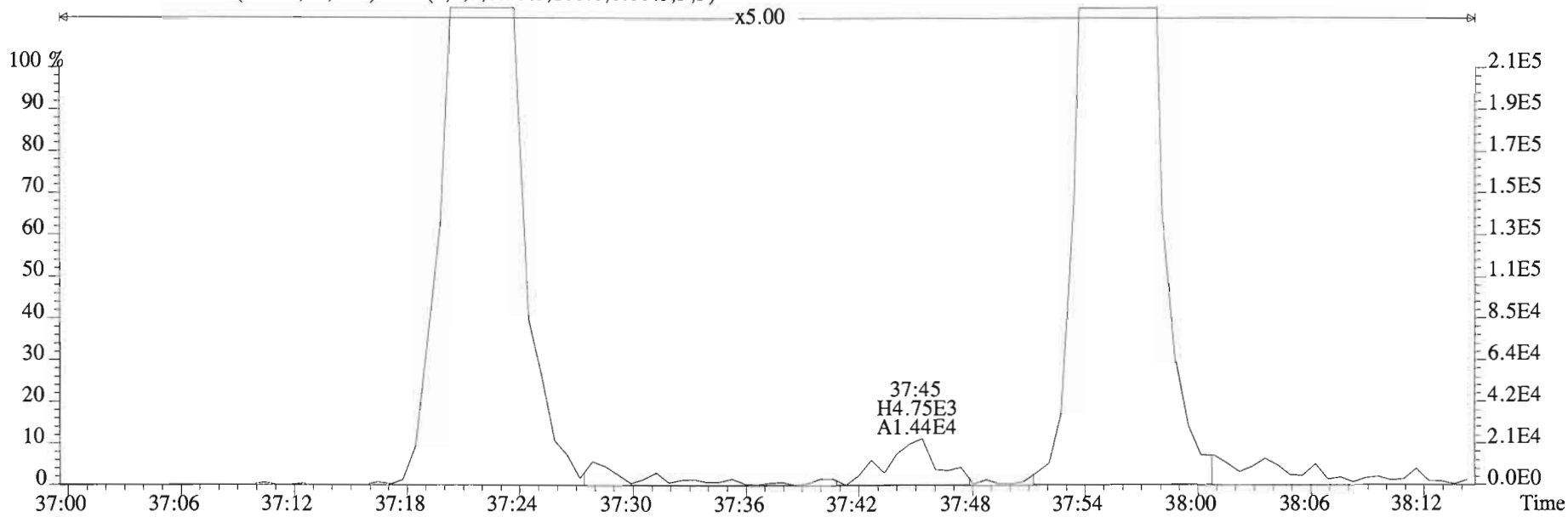
File:150130D2 #1-325 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



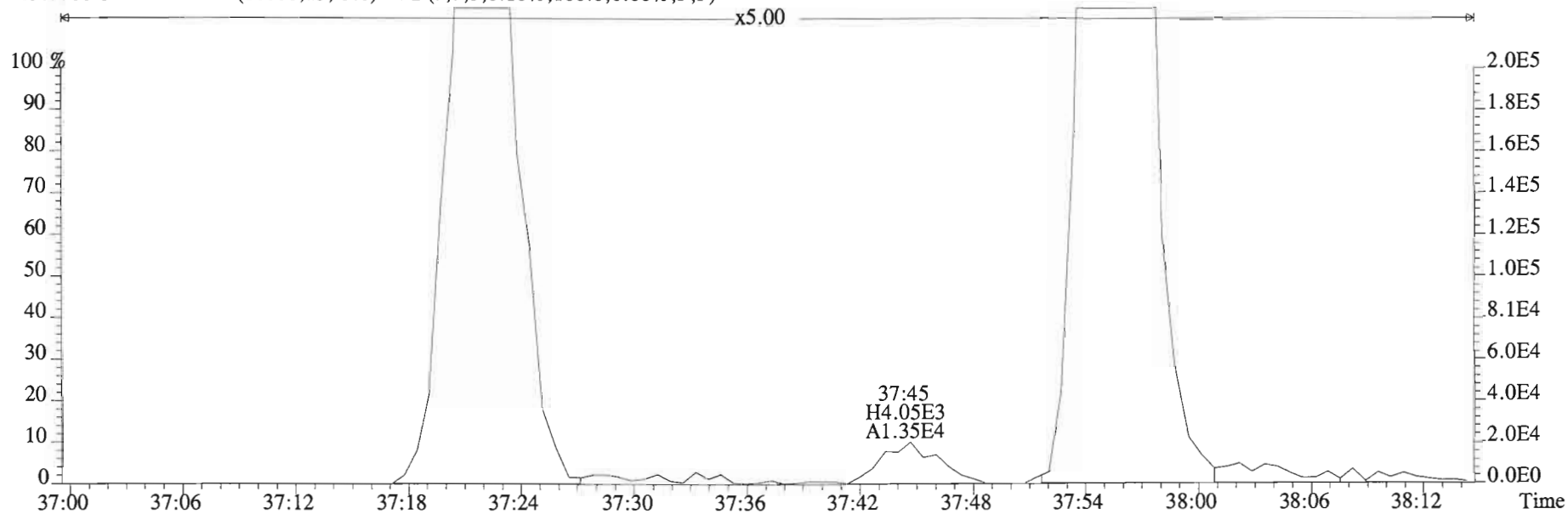
409.7788 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



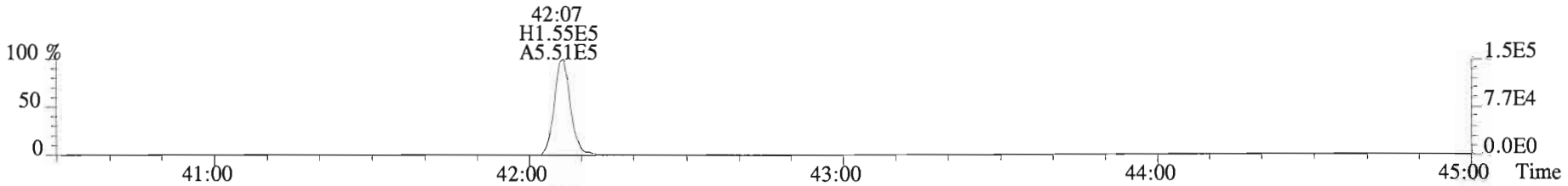
File:150130D2 #1-325 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



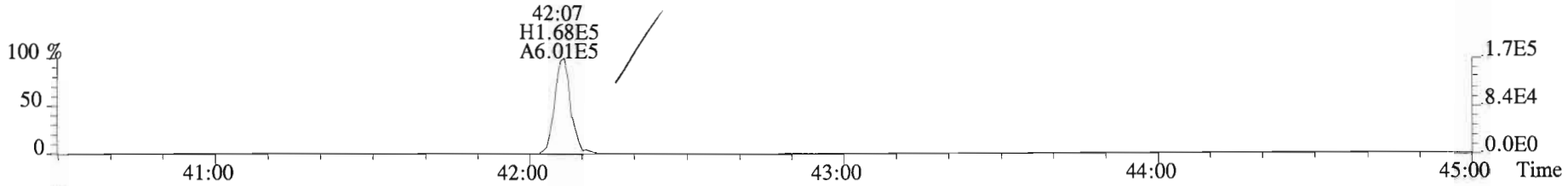
409.7788 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



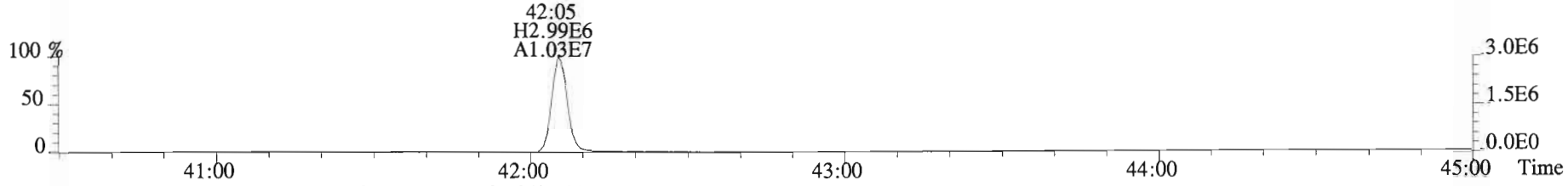
File:150130D2 #1-389 Acq:31-JAN-2015 07:51:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 File Text:Vista Analytical Laboratory VG-7 Text:1500108-04 AS-CB-UNR-20150120-W 1.00648 Exp:OCDD_DB5
441.7428 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



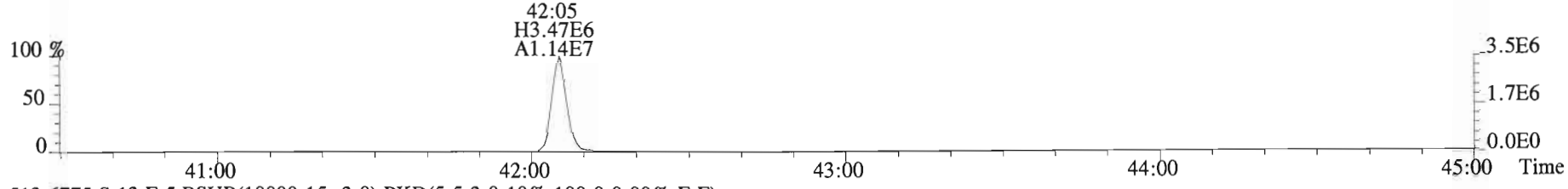
443.7398 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



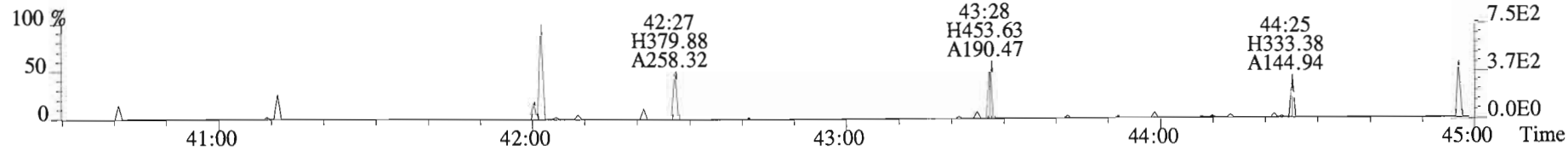
453.7831 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



SAMPLE DATA

EPA Method 1668C

Client ID: Method Blank Filename: 150205E1 S:4 Acq: 5-FEB-15 12:12:16 ConCal: ST150205E1-1

Lab ID: B5A0115-BLK1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.000 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	*	*	n	NotF	1.19	*		3410	2.5	8.17	*	0.996	1.006
Mono	PCB-2	*	*	n	NotF	1.18	*		3410	2.5	7.98	*	0.984	0.994
Mono	PCB-3	*	*	n	NotF	1.43	*		3410	2.5	6.63	*	0.996	1.006
Di	PCB-4/10	*	*	n	NotF	1.57	*		16100	2.5	31.3	*	0.997	1.007
Di	PCB-7/9	*	*	n	NotF	1.21	*		16100	2.5	25.4	*	0.866	0.874
Di	PCB-6	*	*	n	NotF	1.30	*		16100	2.5	23.6	*	0.890	0.899
Di	PCB-5/8	*	*	n	NotF	1.15	*		16100	2.5	26.7	*	0.907	0.917
Di	PCB-14	*	*	n	NotF	1.11	*		16100	2.5	26.0	*	0.949	0.959
Di	PCB-11	*	*	n	NotF	1.09	*		16100	2.5	26.5	*	0.995	1.005
Di	PCB-12/13	*	*	n	NotF	1.19	*		16100	2.5	24.2	*	1.011	1.021
Di	PCB-15	*	*	n	NotF	1.28	*		16100	2.5	22.5	*	1.023	1.033
Tri	PCB-19	*	*	n	NotF	1.04	*		1850	2.5	4.85	*	0.996	1.006
Tri	PCB-30	*	*	n	NotF	1.71	*		1850	2.5	2.95	*	1.032	1.042
Tri	PCB-18	*	*	n	NotF	0.78	*		1850	2.5	4.25	*	0.949	0.959
Tri	PCB-17	*	*	n	NotF	0.92	*		1850	2.5	3.60	*	0.956	0.966
Tri	PCB-24/27	*	*	n	NotF	1.19	*		1850	2.5	2.79	*	0.977	0.987
Tri	PCB-16/32	8.06e+04	1.27	n	27:07	0.94	7.46	R	*	2.5	*	1.000	0.995	1.005
Tri	PCB-34	*	*	n	NotF	1.14	*		1890	2.5	2.95	*	0.955	0.965
Tri	PCB-23	*	*	n	NotF	1.28	*		1890	2.5	2.62	*	0.959	0.969
Tri	PCB-29	*	*	n	NotF	1.08	*		1890	2.5	3.10	*	0.967	0.977
Tri	PCB-26	*	*	n	NotF	1.21	*		1890	2.5	2.77	*	0.974	0.984
Tri	PCB-25	*	*	n	NotF	1.26	*		1890	2.5	2.65	*	0.979	0.989
Tri	PCB-31	*	*	n	NotF	1.28	*		1890	2.5	2.61	*	0.992	1.002
Tri	PCB-28	7.27e+04	1.35	n	29:05	1.71	3.44	R	*	2.5	*	1.000	0.995	1.005
Tri	PCB-20/21/33	6.58e+04	1.12	y	29:43	1.08	4.93		*	2.5	*	1.022	1.017	1.027
Tri	PCB-22	*	*	n	NotF	1.21	*		1890	2.5	2.77	*	1.032	1.042
Tri	PCB-36	*	*	n	NotF	1.14	*		1890	2.5	3.08	*	0.928	0.938
Tri	PCB-39	*	*	n	NotF	1.12	*		1890	2.5	3.15	*	0.943	0.953
Tri	PCB-38	*	*	n	NotF	1.20	*		1890	2.5	2.93	*	0.966	0.976
Tri	PCB-35	*	*	n	NotF	1.23	*		1890	2.5	2.85	*	0.982	0.992
Tri	PCB-37	*	*	n	NotF	1.23	*		1890	2.5	2.86	*	0.995	1.005
Tetra	PCB-54	*	*	n	NotF	1.10	*		2190	2.5	4.08	*	0.996	1.006
Tetra	PCB-50	*	*	n	NotF	0.88	*		2190	2.5	5.11	*	1.037	1.047
Tetra	PCB-53	*	*	n	NotF	1.06	*		2190	2.5	4.98	*	0.942	0.952
Tetra	PCB-51	*	*	n	NotF	0.99	*		2190	2.5	5.35	*	0.952	0.962
Tetra	PCB-45	*	*	n	NotF	0.86	*		2190	2.5	6.13	*	0.966	0.976
Tetra	PCB-46	*	*	n	NotF	0.85	*		2190	2.5	6.27	*	0.981	0.991

Integrations by:

Analyst: DMS

Date: 2/9/15

Reviewed by: [signature] Date: 2/10/15

Client ID: Method Blank Filename: 150205E1 S:4 Acq: 5-FEB-15 12:12:16 ConCal: ST150205E1-1

Lab ID: B5A0115-BLK1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.000 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	*	*	n NotF	1.28	*		2190	2.5	4.13	*	0.996	1.006
Tetra	PCB-73	*	*	n NotF	1.35	*		2190	2.5	3.92	*	1.000	1.010
Tetra	PCB-43/49	*	*	n NotF	0.99	*		2190	2.5	5.33	*	1.005	1.015
Tetra	PCB-47	*	*	n NotF	1.06	*		2190	2.5	4.62	*	0.996	1.006
Tetra	PCB-48/75	*	*	n NotF	1.23	*		2190	2.5	3.98	*	0.999	1.009
Tetra	PCB-65	*	*	n NotF	1.22	*		2190	2.5	3.99	*	1.008	1.018
Tetra	PCB-62	*	*	n NotF	1.22	*		2190	2.5	4.00	*	1.011	1.021
Tetra	PCB-44	*	*	n NotF	0.86	*		2190	2.5	5.68	*	1.021	1.031
Tetra	PCB-42/59	*	*	n NotF	1.14	*		2190	2.5	4.30	*	1.028	1.038
Tetra	PCB-41/64/71/72	*	*	n NotF	1.21	*		2190	2.5	4.05	*	1.046	1.056
Tetra	PCB-68	*	*	n NotF	1.35	*		2190	2.5	3.63	*	1.054	1.064
Tetra	PCB-40	*	*	n NotF	0.70	*		2190	2.5	6.97	*	1.061	1.071
Tetra	PCB-57	*	*	n NotF	0.98	*		2190	2.5	3.92	*	0.965	0.975
Tetra	PCB-67	*	*	n NotF	1.11	*		2190	2.5	3.47	*	0.974	0.984
Tetra	PCB-58	*	*	n NotF	0.93	*		2190	2.5	4.14	*	0.977	0.987
Tetra	PCB-63	*	*	n NotF	0.95	*		2190	2.5	4.03	*	0.982	0.992
Tetra	PCB-74	*	*	n NotF	1.24	*		2190	2.5	3.09	*	0.990	1.000
Tetra	PCB-61/70	*	*	n NotF	0.95	*		2190	2.5	4.03	*	0.995	1.005
Tetra	PCB-76/66	*	*	n NotF	1.04	*		2190	2.5	3.67	*	1.001	1.011
Tetra	PCB-80	*	*	n NotF	1.19	*		2190	2.5	3.11	*	0.996	1.006
Tetra	PCB-55	*	*	n NotF	1.04	*		2190	2.5	3.56	*	1.005	1.015
Tetra	PCB-56/60	*	*	n NotF	1.01	*		2190	2.5	3.67	*	1.019	1.029
Tetra	PCB-79	*	*	n NotF	1.08	*		2190	2.5	3.43	*	1.048	1.058
Tetra	PCB-78	*	*	n NotF	1.27	*		2190	2.5	3.37	*	0.982	0.992
Tetra	PCB-81	*	*	n NotF	1.33	*		2190	2.5	3.21	*	0.995	1.005
Tetra	PCB-77	*	*	n NotF	1.10	*		2190	2.5	3.76	*	0.995	1.005
Penta	PCB-104	*	*	n NotF	1.18	*		1060	2.5	3.95	*	0.996	1.006
Penta	PCB-96	*	*	n NotF	1.14	*		1060	2.5	4.10	*	1.034	1.044
Penta	PCB-103	*	*	n NotF	0.96	*		1060	2.5	4.87	*	1.050	1.060
Penta	PCB-100	*	*	n NotF	0.94	*		1060	2.5	4.97	*	1.061	1.071
Penta	PCB-94	*	*	n NotF	1.06	*		1060	2.5	5.78	*	0.980	0.990
Penta	PCB-95/98/102	*	*	n NotF	1.22	*		1060	2.5	4.99	*	0.995	1.005
Penta	PCB-93	*	*	n NotF	0.84	*		1060	2.5	7.24	*	0.997	1.007
Penta	PCB-88/91	*	*	n NotF	1.12	*		1060	2.5	5.47	*	1.005	1.015
Penta	PCB-121	*	*	n NotF	1.62	*		1060	2.5	3.78	*	1.009	1.019
Penta	PCB-84/92	*	*	n NotF	1.05	*		1060	2.5	5.49	*	0.985	0.995
Penta	PCB-89	*	*	n NotF	1.13	*		1060	2.5	5.08	*	0.991	1.001

Analyst: DMS

Date: 2/9/15

Client ID: Method Blank Filename: 150205E1 S:4 Acq: 5-FEB-15 12:12:16 ConCal: ST150205E1-1

Lab ID: B5A0115-BLK1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.000 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	*	*	n NotF	1.10	*		1060	2.5	5.22	*	0.995	1.005
Penta	PCB-113	*	*	n NotF	1.41	*		1060	2.5	4.07	*	1.002	1.012
Penta	PCB-99	*	*	n NotF	1.34	*		1060	2.5	4.30	*	1.004	1.014
Penta	PCB-119	*	*	n NotF	1.53	*		1060	2.5	4.22	*	0.982	0.992
Penta	PCB-108/112	*	*	n NotF	1.28	*		1060	2.5	5.05	*	0.986	0.996
Penta	PCB-83	*	*	n NotF	1.52	*		1060	2.5	4.26	*	0.990	1.000
Penta	PCB-97	*	*	n NotF	1.18	*		1060	2.5	5.47	*	0.995	1.005
Penta	PCB-86	*	*	n NotF	0.84	*		1060	2.5	7.67	*	0.999	1.009
Penta	PCB-87/117/125	*	*	n NotF	1.55	*		1060	2.5	4.17	*	1.002	1.012
Penta	PCB-111/115	*	*	n NotF	1.63	*		1060	2.5	3.96	*	1.006	1.016
Penta	PCB-85/116	*	*	n NotF	1.30	*		1060	2.5	4.96	*	1.010	1.020
Penta	PCB-120	*	*	n NotF	1.68	*		1060	2.5	3.85	*	1.016	1.026
Penta	PCB-110	*	*	n NotF	1.56	*		1060	2.5	4.15	*	1.020	1.030
Penta	PCB-82	*	*	n NotF	0.76	*		1060	2.5	6.52	*	0.971	0.981
Penta	PCB-124	*	*	n NotF	1.47	*		1060	2.5	3.37	*	0.988	0.998
Penta	PCB-107/109	*	*	n NotF	1.32	*		1060	2.5	3.74	*	0.991	1.001
Penta	PCB-123	*	*	n NotF	1.17	*		1060	2.5	4.24	*	0.996	1.006
Penta	PCB-106/118	*	*	n NotF	1.17	*		1060	2.5	3.97	*	0.996	1.006
Penta	PCB-114	*	*	n NotF	1.30	*		1840	2.5	4.78	*	0.995	1.005
Penta	PCB-122	*	*	n NotF	1.12	*		1840	2.5	5.53	*	0.999	1.009
Penta	PCB-105	*	*	n NotF	1.30	*		1840	2.5	4.78	*	0.995	1.005
Penta	PCB-127	*	*	n NotF	1.33	*		1840	2.5	4.21	*	0.996	1.006
Penta	PCB-126	*	*	n NotF	1.18	*		1840	2.5	5.45	*	0.995	1.005
Hexa	PCB-155	*	*	n NotF	1.11	*		1050	2.5	5.28	*	0.966	1.006
Hexa	PCB-150	*	*	n NotF	1.00	*		1050	2.5	5.91	*	1.030	1.040
Hexa	PCB-152	*	*	n NotF	1.12	*		1050	2.5	5.29	*	1.043	1.053
Hexa	PCB-145	*	*	n NotF	1.20	*		1050	2.5	4.91	*	1.055	1.065
Hexa	PCB-136	*	*	n NotF	1.18	*		1050	2.5	5.01	*	1.064	1.074
Hexa	PCB-148	*	*	n NotF	0.74	*		1050	2.5	7.92	*	1.066	1.076
Hexa	PCB-154	*	*	n NotF	0.86	*		1050	2.5	6.87	*	1.080	1.090
Hexa	PCB-151	*	*	n NotF	0.75	*		1050	2.5	7.90	*	1.097	1.107
Hexa	PCB-135	*	*	n NotF	0.79	*		1050	2.5	7.44	*	1.103	1.113
Hexa	PCB-144	*	*	n NotF	0.76	*		1050	2.5	7.74	*	1.105	1.117
Hexa	PCB-147	*	*	n NotF	0.82	*		1050	2.5	7.19	*	1.109	1.121
Hexa	PCB-139/149	*	*	n NotF	0.76	*		1050	2.5	7.74	*	1.116	1.128
Hexa	PCB-140	*	*	n NotF	0.72	*		1050	2.5	8.17	*	1.121	1.133
Hexa	PCB-134/143	*	*	n NotF	0.92	*		1800	2.5	6.68	*	0.970	0.980

Analyst: DMS

Date: 2/12/15

Client ID: Method Blank Filename: 150205E1 S:4 Acq: 5-FEB-15 12:12:16 ConCal: ST150205E1-1

Lab ID: B5A0115-BLK1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.000 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	*	*	n NotF	0.82	*		1800	2.5	7.47	*	0.977	0.987
Hexa	PCB-131	*	*	n NotF	0.91	*		1800	2.5	6.74	*	0.981	0.991
Hexa	PCB-146/165	*	*	n NotF	1.25	*		1800	2.5	4.91	*	0.986	0.996
Hexa	PCB-132/161	*	*	n NotF	1.10	*		1800	2.5	5.54	*	0.992	1.002
Hexa	PCB-153	*	*	n NotF	1.25	*		1800	2.5	4.90	*	0.995	1.005
Hexa	PCB-168	*	*	n NotF	1.45	*		1800	2.5	4.22	*	1.001	1.011
Hexa	PCB-141	*	*	n NotF	1.09	*		1800	2.5	6.12	*	0.995	1.005
Hexa	PCB-137	*	*	n NotF	1.06	*		1800	2.5	6.25	*	1.004	1.014
Hexa	PCB-130	*	*	n NotF	0.96	*		1800	2.5	6.88	*	1.006	1.016
Hexa	PCB-138/163/164	*	*	n NotF	1.29	*		1800	2.5	5.00	*	0.996	1.006
Hexa	PCB-158/160	*	*	n NotF	1.34	*		1800	2.5	4.82	*	1.001	1.011
Hexa	PCB-129	*	*	n NotF	0.85	*		1800	2.5	7.58	*	1.007	1.017
Hexa	PCB-166	*	*	n NotF	1.19	*		1800	2.5	4.87	*	0.988	0.998
Hexa	PCB-159	*	*	n NotF	1.11	*		1800	2.5	5.19	*	0.996	1.006
Hexa	PCB-128/162	*	*	n NotF	1.05	*		1800	2.5	5.51	*	1.002	1.012
Hexa	PCB-167	*	*	n NotF	1.20	*		1800	2.5	4.18	*	0.995	1.005
Hexa	PCB-156	*	*	n NotF	1.14	*		1800	2.5	4.76	*	0.996	1.006
Hexa	PCB-157	*	*	n NotF	1.16	*		1800	2.5	4.64	*	0.995	1.005
Hexa	PCB-169	*	*	n NotF	1.12	*		1800	2.5	4.71	*	0.995	1.005
Hepta	PCB-188	*	*	n NotF	1.58	*		1690	2.5	3.03	*	0.996	1.006
Hepta	PCB-184	*	*	n NotF	1.63	*		1690	2.5	2.94	*	1.006	1.016
Hepta	PCB-179	*	*	n NotF	1.30	*		1690	2.5	3.68	*	1.024	1.034
Hepta	PCB-176	*	*	n NotF	1.48	*		1690	2.5	3.25	*	1.035	1.045
Hepta	PCB-186	*	*	n NotF	1.45	*		1690	2.5	3.30	*	1.050	1.060
Hepta	PCB-178	*	*	n NotF	1.03	*		1690	2.5	4.63	*	1.061	1.071
Hepta	PCB-175	*	*	n NotF	1.01	*		1690	2.5	4.73	*	1.069	1.079
Hepta	PCB-182/187	*	*	n NotF	1.25	*		1690	2.5	3.83	*	1.073	1.083
Hepta	PCB-183	*	*	n NotF	1.21	*		1690	2.5	3.97	*	1.081	1.091
Hepta	PCB-185	*	*	n NotF	1.80	*		1690	2.5	3.68	*	0.951	0.961
Hepta	PCB-174	*	*	n NotF	1.38	*		1690	2.5	4.82	*	0.958	0.968
Hepta	PCB-181	*	*	n NotF	1.38	*		1690	2.5	4.81	*	0.960	0.970
Hepta	PCB-177	*	*	n NotF	1.26	*		1690	2.5	5.29	*	0.963	0.973
Hepta	PCB-171	*	*	n NotF	1.58	*		1690	2.5	4.19	*	0.970	0.980
Hepta	PCB-173	*	*	n NotF	1.11	*		1690	2.5	5.98	*	0.978	0.988
Hepta	PCB-172	*	*	n NotF	1.63	*		1690	2.5	4.06	*	0.987	0.997
Hepta	PCB-192	*	*	n NotF	1.74	*		1690	2.5	3.81	*	0.991	1.001
Hepta	PCB-180	*	*	n NotF	1.34	*		1690	2.5	4.94	*	0.995	1.005

Analyst: DMS

Date: 2/9/15

Client ID: Method Blank Filename: 150205E1 S:4 Acq: 5-FEB-15 12:12:16 ConCal: ST150205E1-1
Lab ID: B5A0115-BLK1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.000 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	*	*	n	NotF¶	1.72	*		1690	2.5	3.87	*	0.999	1.009
Hepta	PCB-191	*	*	n	NotF¶	1.69	*		1690	2.5	3.92	*	1.004	1.014
Hepta	PCB-170	*	*	n	NotF¶	1.60	*		1690	2.5	4.69	*	0.995	1.005
Hepta	PCB-190	*	*	n	NotF¶	2.21	*		1690	2.5	3.39	*	0.998	1.008
Hepta	PCB-189	*	*	n	NotF¶	1.55	*		1690	2.5	3.82	*	0.995	1.005
Octa	PCB-202	*	*	n	NotF¶	1.08	*		1570	2.5	6.80	*	0.995	1.005
Octa	PCB-201	*	*	n	NotF¶	1.15	*		1570	2.5	6.40	*	1.005	1.015
Octa	PCB-204	*	*	n	NotF¶	1.14	*		1570	2.5	6.47	*	1.008	1.018
Octa	PCB-197	*	*	n	NotF¶	1.07	*		1570	2.5	6.86	*	1.015	1.025
Octa	PCB-200	*	*	n	NotF¶	1.06	*		1570	2.5	6.93	*	1.032	1.044
Octa	PCB-198	*	*	n	NotF¶	0.76	*		1570	2.5	9.75	*	1.059	1.069
Octa	PCB-199	*	*	n	NotF¶	0.80	*		1570	2.5	9.23	*	1.061	1.071
Octa	PCB-196/203	*	*	n	NotF¶	0.80	*		1570	2.5	9.19	*	1.066	1.076
Octa	PCB-195	*	*	n	NotF¶	1.23	*		1520	2.5	4.20	*	0.979	0.989
Octa	PCB-194	*	*	n	NotF¶	1.21	*		1520	2.5	4.25	*	0.995	1.005
Octa	PCB-205	*	*	n	NotF¶	1.54	*		1520	2.5	3.34	*	1.001	1.011
Nona	PCB-208	*	*	n	NotF¶	0.93	*		1200	2.5	2.93	*	0.995	1.005
Nona	PCB-207	*	*	n	NotF¶	1.08	*		1200	2.5	2.51	*	1.001	1.011
Nona	PCB-206	*	*	n	NotF¶	1.02	*		1200	2.5	5.23	*	0.995	1.005
Deca	PCB-209	*	*	n	NotF¶	1.17	*		942	2.5	4.66	*	0.995	1.005

Analyst: DMS

Date: 2/9/15

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	*	*	n	NotFnd	1.27	*	
Total Di-PCB	*	*	n	NotFnd	1.21	*	
Total Tri-PCB	*	*	n	NotFnd	1.10	*	
Total Tri-PCB	6.58e+04	1.12	y	29:43	1.21	4.93065	Sum:4.93065
Total Tetra-PCB	*	*	n	NotFnd	1.09	*	
Total Penta-PCB	*	*	n	NotFnd	1.18	*	
Total Penta-PCB	*	*	n	NotFnd	1.25	*	Sum:0.00000
Total Hexa-PCB	*	*	n	NotFnd	0.90	*	
Total Hexa-PCB	*	*	n	NotFnd	1.11	*	Sum:0.00000
Total Hepta-PCB	*	*	n	NotFnd	1.42	*	
Total Octa-PCB	*	*	n	NotFnd	0.96	*	
Total Octa-PCB	*	*	n	NotFnd	1.33	*	Sum:0.00000
Total Nona-PCB	*	*	n	NotFnd	1.01	*	
Total Deca-PCB	*	*	n	NotFnd	1.17	*	

Total PCB Conc:15.8304610000
4.93

Integrations by Analyst: DMS

Date: 2/9/15

Client ID: Method Blank Filename: 150205E1 S:4 Acq: 5-FEB-15 12:12:16 ConCal: ST150205E1-1
Lab ID: B5A0115-BLK1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol:2.0000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.14e+08	3.28 y	0.87	16:09	0.623	0.629	0.635	7000	70.0
13C-PCB-3	1.26e+08	3.33 y	0.91	18:45	0.723	0.725	0.733	7390	73.9
13C-PCB-4	7.49e+07	1.61 y	0.59	20:04	0.774	0.775	0.783	6810	68.1
13C-PCB-9	1.21e+08	1.60 y	0.90	21:51	0.843	0.842	0.850	7220	72.2
13C-PCB-11	1.37e+08	1.58 y	0.94	25:13	0.973	0.968	0.978	7820	78.2
13C-PCB-19	7.35e+07	1.09 y	0.53	24:12	0.933	0.930	0.940	7380	73.8
13C-PCB-28	1.23e+08	1.06 y	0.93	29:04	1.003	0.999	1.009	7300	73.0
13C-PCB-32	1.15e+08	1.08 y	0.80	27:07	1.046	1.040	1.050	7720	77.2
13C-PCB-37	1.36e+08	1.08 y	0.84	32:57	1.137	1.131	1.143	8920	89.2
13C-PCB-47	9.65e+07	0.79 y	0.81	31:59	0.870	0.866	0.874	8080	80.8
13C-PCB-52	9.02e+07	0.80 y	0.77	31:29	0.856	0.853	0.861	7960	79.6
13C-PCB-54	9.99e+07	0.80 y	0.97	27:57	0.761	0.758	0.766	7000	70.0
13C-PCB-70	1.28e+08	0.80 y	1.00	35:31	0.966	0.961	0.971	8690	86.9
13C-PCB-77	1.22e+08	0.80 y	0.94	39:38	1.078	1.073	1.083	8800	88.0
13C-PCB-80	1.33e+08	0.81 y	1.03	35:56	0.978	0.972	0.982	8790	87.9
13C-PCB-81	1.20e+08	0.80 y	0.92	39:02	1.062	1.057	1.067	8870	88.7
13C-PCB-95	5.55e+07	1.58 y	0.74	35:48	0.913	0.908	0.918	8760	87.6
13C-PCB-97	5.40e+07	1.60 y	0.70	38:48	0.989	0.984	0.994	8960	89.6
13C-PCB-101	6.01e+07	1.59 y	0.78	37:30	0.956	0.951	0.961	8960	89.6
13C-PCB-104	7.22e+07	1.60 y	1.00	32:39	0.832	0.828	0.836	8430	84.3
13C-PCB-105	9.99e+07	1.59 y	1.37	43:04	0.929	0.924	0.934	8700	87.0
13C-PCB-114	1.01e+08	1.62 y	1.36	42:13	0.910	0.905	0.915	8830	88.3
13C-PCB-118	7.43e+07	1.59 y	0.96	41:33	1.059	1.054	1.064	9060	90.6
13C-PCB-123	7.08e+07	1.60 y	0.89	41:22	1.055	1.050	1.060	9250	92.5
13C-PCB-126	9.57e+07	1.60 y	1.31	45:19	0.977	0.972	0.982	8710	87.1
13C-PCB-127	1.08e+08	1.58 y	1.47	43:25	0.936	0.931	0.941	8710	87.1
13C-PCB-138	8.18e+07	1.28 y	1.10	44:48	0.966	0.961	0.971	8850	88.5
13C-PCB-141	7.86e+07	1.30 y	1.07	43:58	0.948	0.943	0.953	8700	87.0
13C-PCB-153	8.57e+07	1.29 y	1.15	43:13	0.932	0.927	0.937	8890	88.9
13C-PCB-155	5.38e+07	1.35 y	0.84	37:02	0.944	0.939	0.949	7490	74.9
13C-PCB-156	9.61e+07	1.28 y	1.30	48:05	1.037	1.032	1.042	8810	88.1
13C-PCB-157	9.99e+07	1.30 y	1.36	48:21	1.043	1.038	1.048	8750	87.5
13C-PCB-159	9.35e+07	1.30 y	1.25	46:06	0.994	0.989	0.999	8920	89.2
13C-PCB-167	1.01e+08	1.27 y	1.35	46:47	1.009	1.004	1.014	8920	89.2
13C-PCB-169	9.23e+07	1.29 y	1.29	50:27	1.088	1.083	1.093	8540	85.4
13C-PCB-170	3.69e+07	0.48 y	0.54	50:48	1.095	1.089	1.101	8100	81.0
13C-PCB-180	4.49e+07	0.47 y	0.68	49:22	1.065	1.060	1.070	7820	78.2
13C-PCB-188	6.42e+07	0.46 y	0.92	42:51	0.924	0.919	0.929	8330	83.3
13C-PCB-189	4.69e+07	0.46 y	0.72	52:15	1.127	1.120	1.132	7780	77.8
13C-PCB-194	6.04e+07	0.91 y	0.80	53:46	0.995	0.990	1.000	8900	89.0
13C-PCB-202	5.11e+07	0.92 y	0.84	48:17	1.041	1.036	1.046	7250	72.5
13C-PCB-206	4.89e+07	0.80 y	0.65	55:25	1.025	1.021	1.031	8850	88.5
13C-PCB-208	7.33e+07	0.79 y	1.08	53:00	0.981	0.976	0.986	7970	79.7
13C-PCB-209	4.88e+07	1.22 y	0.61	56:44	1.050	1.045	1.055	9400	94.0

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.37e+08	0.80 y	1.02	37:49	1.029	1.023	1.034	9150	91.5
13C-PCB-178	4.46e+07	0.47 y	0.61	45:39	0.984	0.979	0.990	8640	86.4

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.37e+08	0.80 y	1.10	37:49	0.969	0.964	0.974	10300	103
13C-PCB-178	4.46e+07	0.47 y	0.90	45:39	0.925	0.920	0.930	11000	110

RS

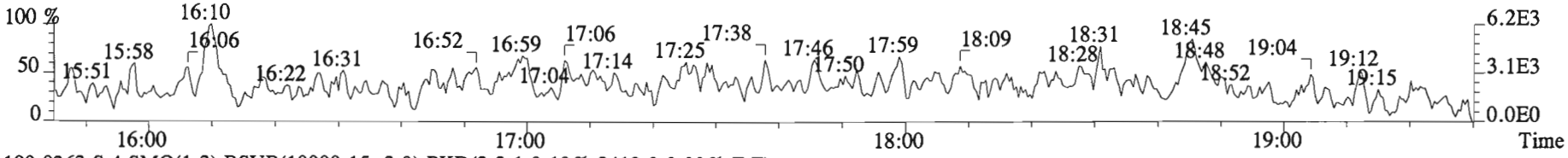
Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	1.87e+08	1.57 y	1.00	25:56	10000
13C-PCB-31	1.81e+08	1.05 y	1.00	28:58	10000
13C-PCB-60	1.47e+08	0.81 y	1.00	36:45	10000
13C-PCB-111	8.55e+07	1.59 y	1.00	39:13	10000
13C-PCB-128	8.41e+07	1.31 y	1.00	46:22	10000
13C-PCB-205	8.51e+07	0.92 y	1.00	54:03	10000

* = OK within 1668 method limits.

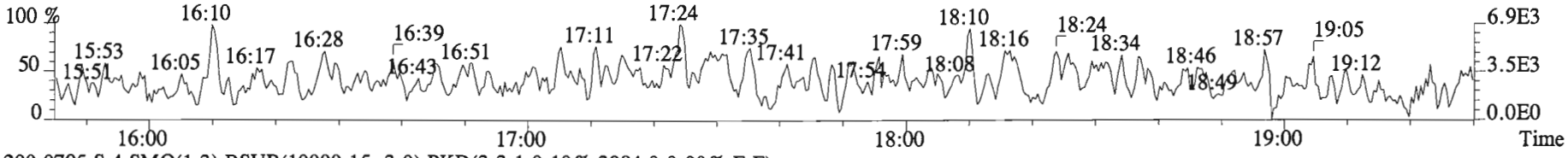
Analyst: DMS

Date: 2/9/15

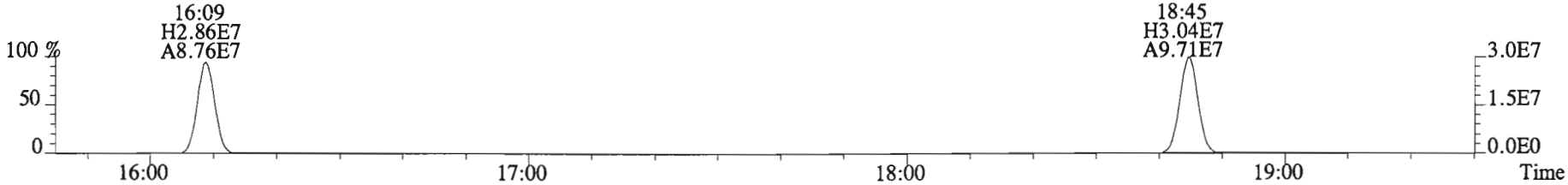
File:150205E1 #1-728 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
188.0393 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2876.0,0.00%,F,F)



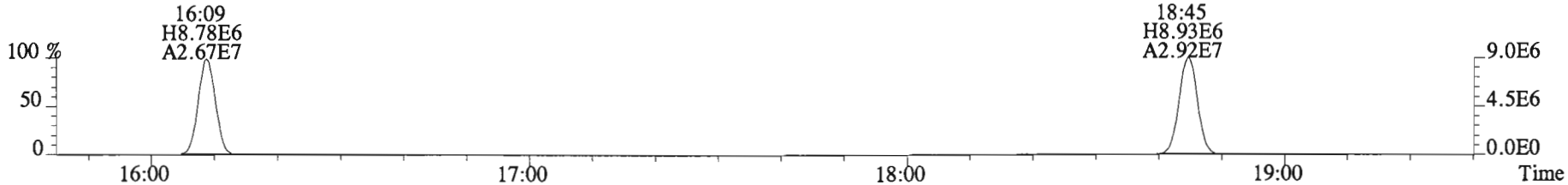
190.0363 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3412.0,0.00%,F,F)



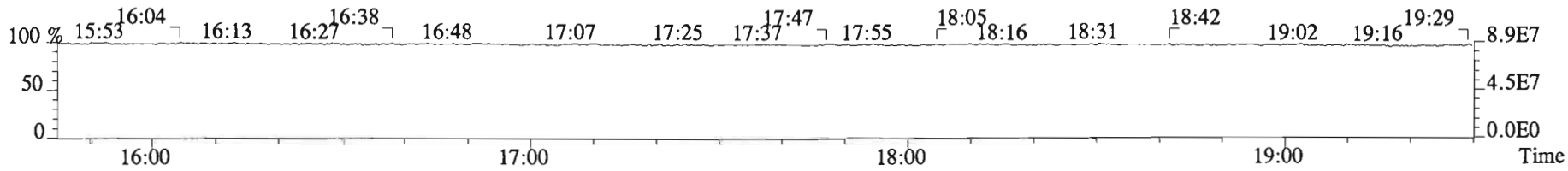
200.0795 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3984.0,0.00%,F,F)



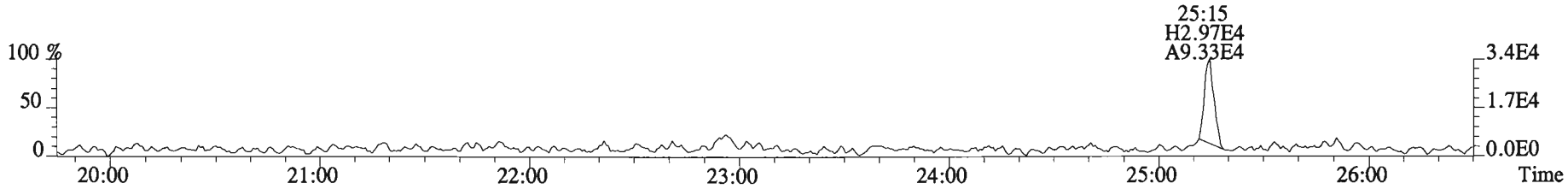
202.0766 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,40664.0,0.00%,F,F)



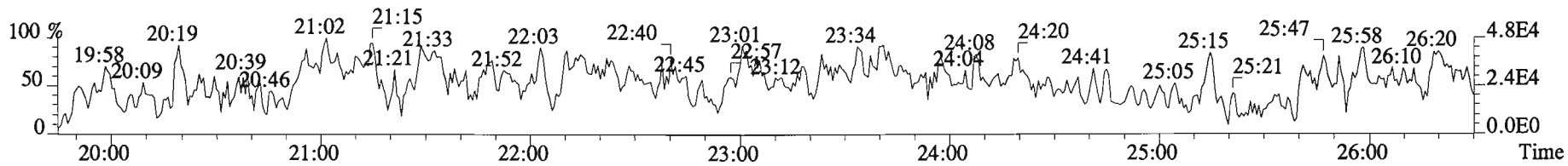
180.9880 S:4



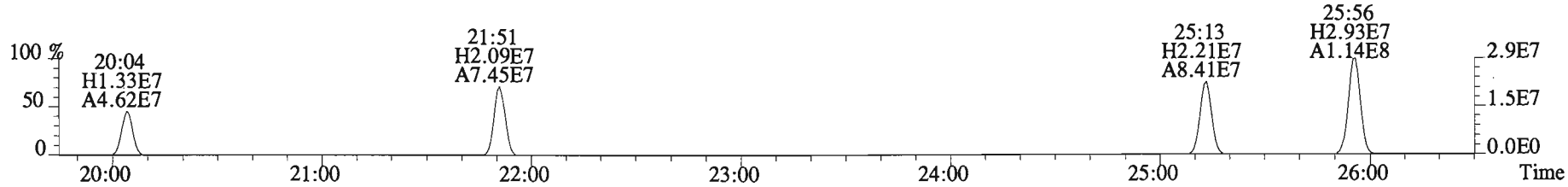
File:150205E1 #1-757 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3412.0,0.00%,F,F)



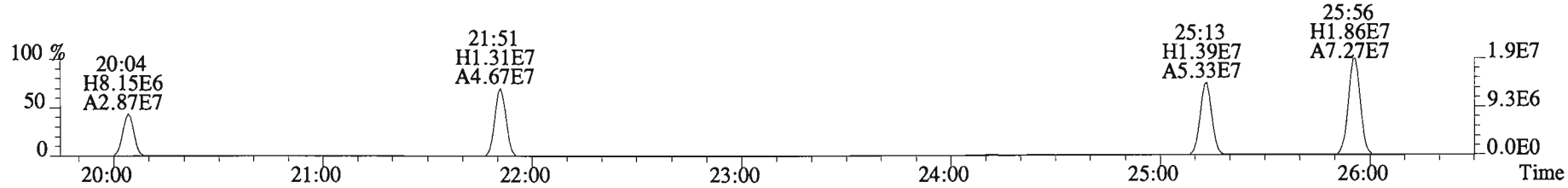
223.9974 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,32668.0,0.00%,F,F)



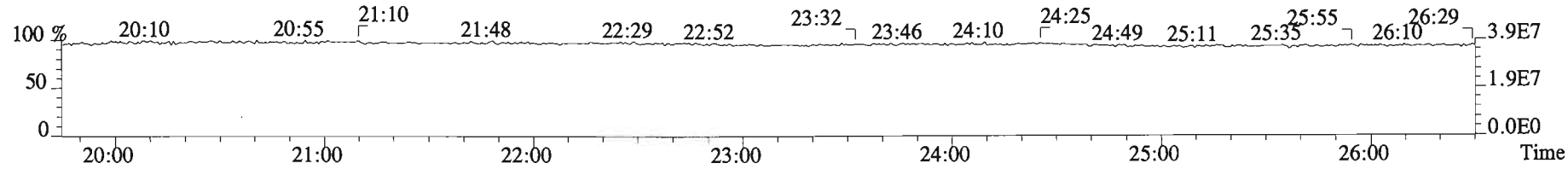
234.0406 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7020.0,0.00%,F,F)



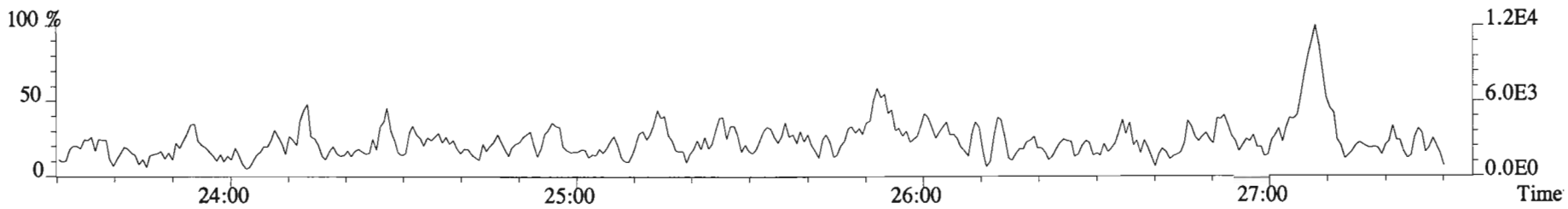
236.0376 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6024.0,0.00%,F,F)



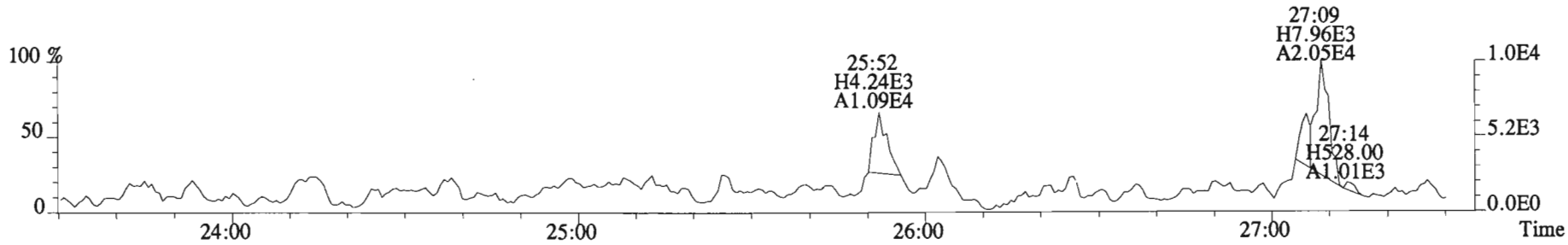
230.9856 S:4 F:2



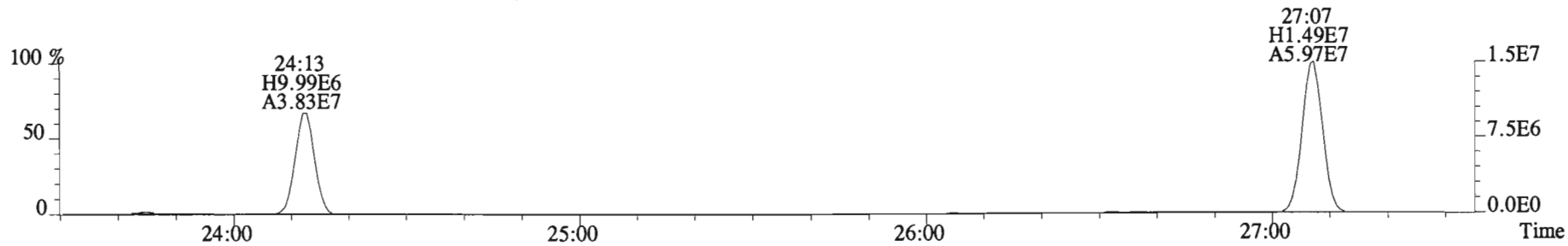
File:150205E1 #1-757 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
255.9613 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3320.0,0.00%,F,F)



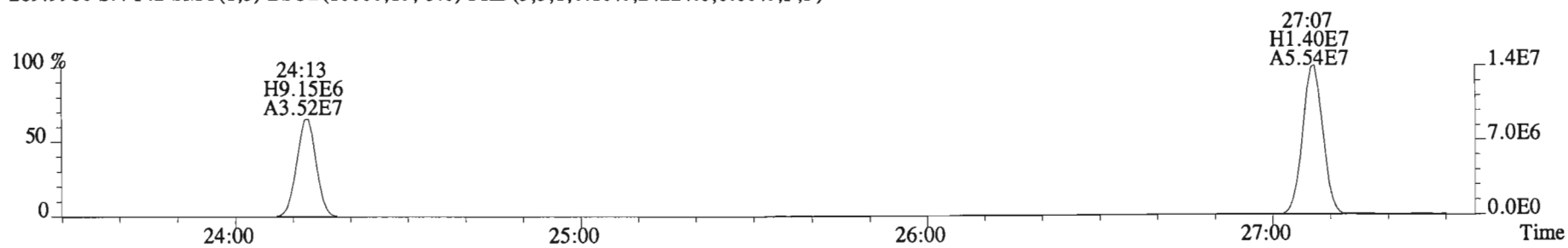
257.9584 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1852.0,0.00%,F,F)



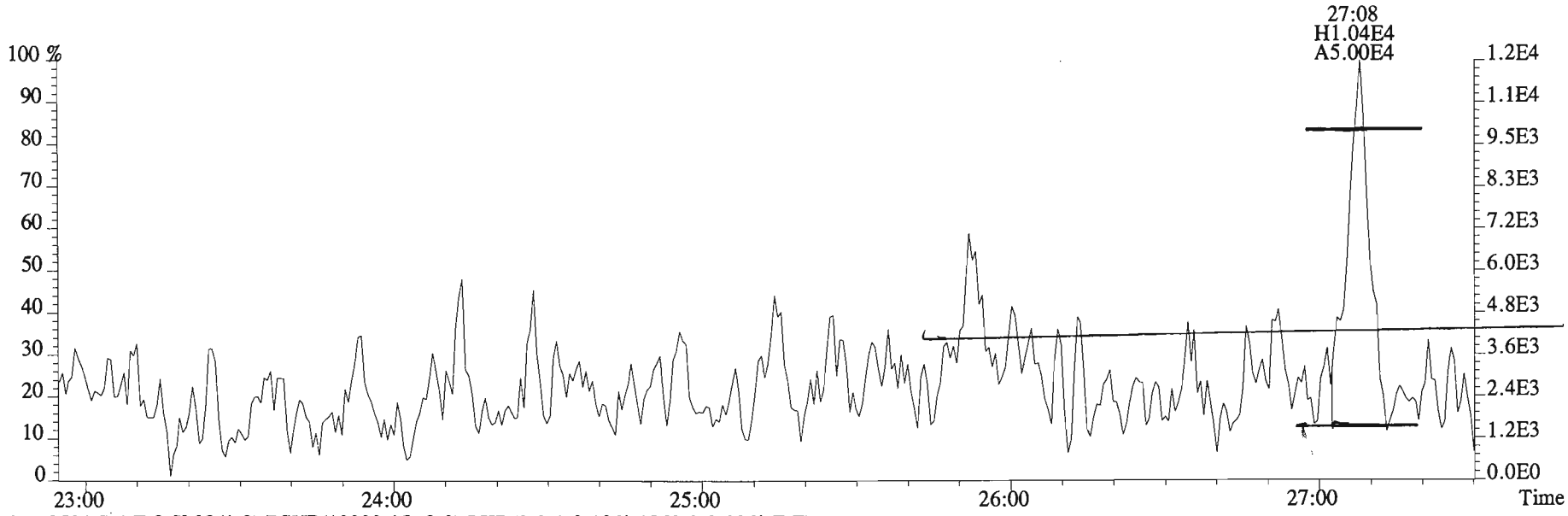
268.0016 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,34016.0,0.00%,F,F)



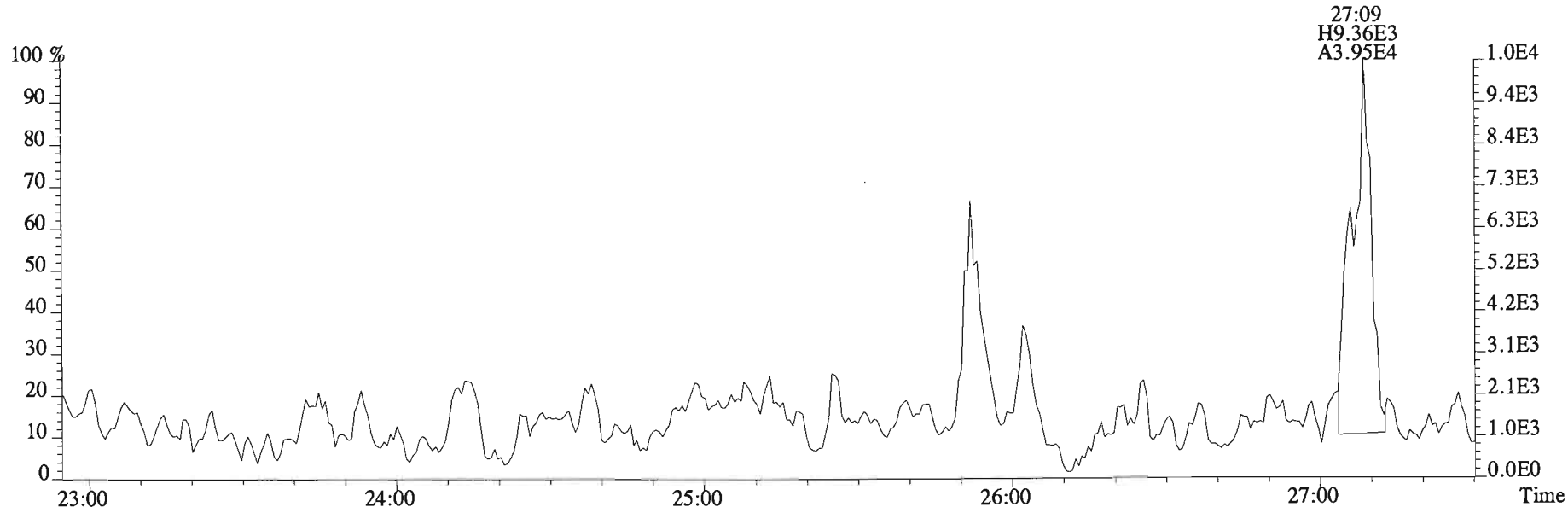
269.9986 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24224.0,0.00%,F,F)



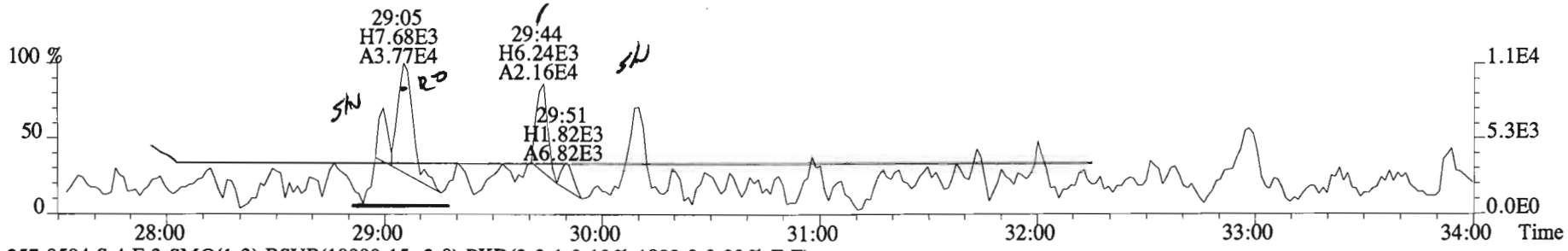
File:150205E1 #1-757 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
255.9613 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3320.0,0.00%,F,F)



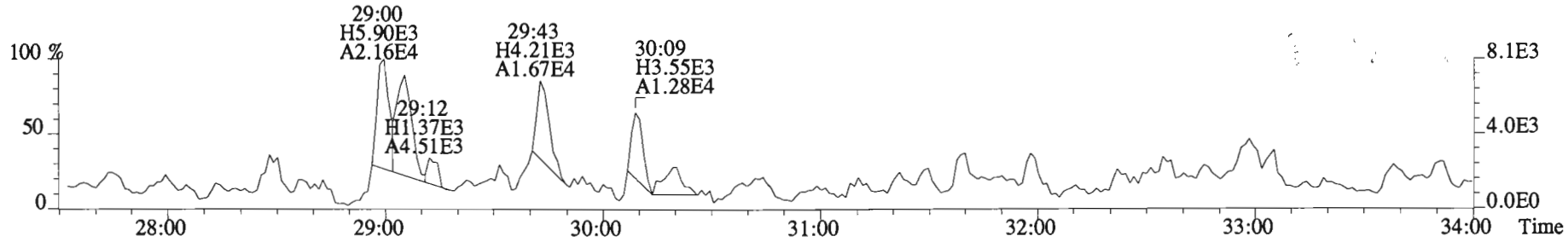
257.9584 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1852.0,0.00%,F,F)



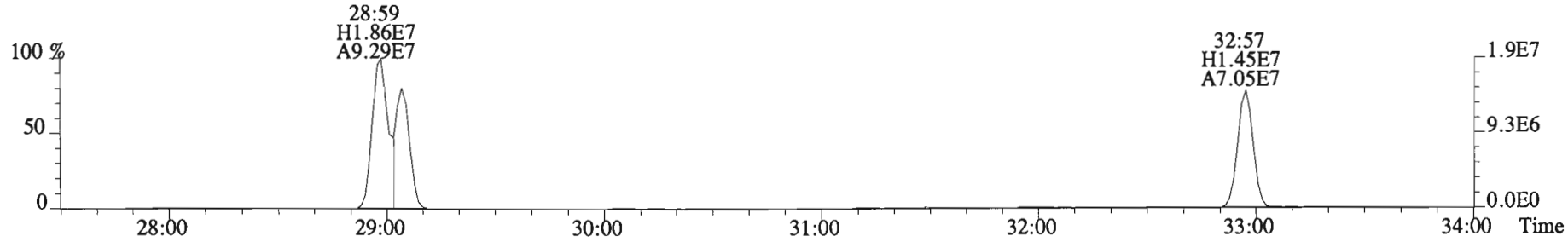
File:150205E1 #1-758 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2904.0,0.00%,F,F)



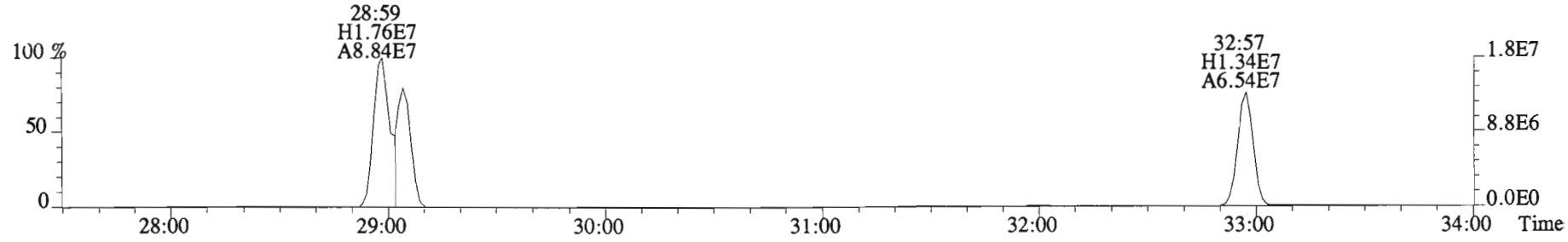
257.9584 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1892.0,0.00%,F,F)



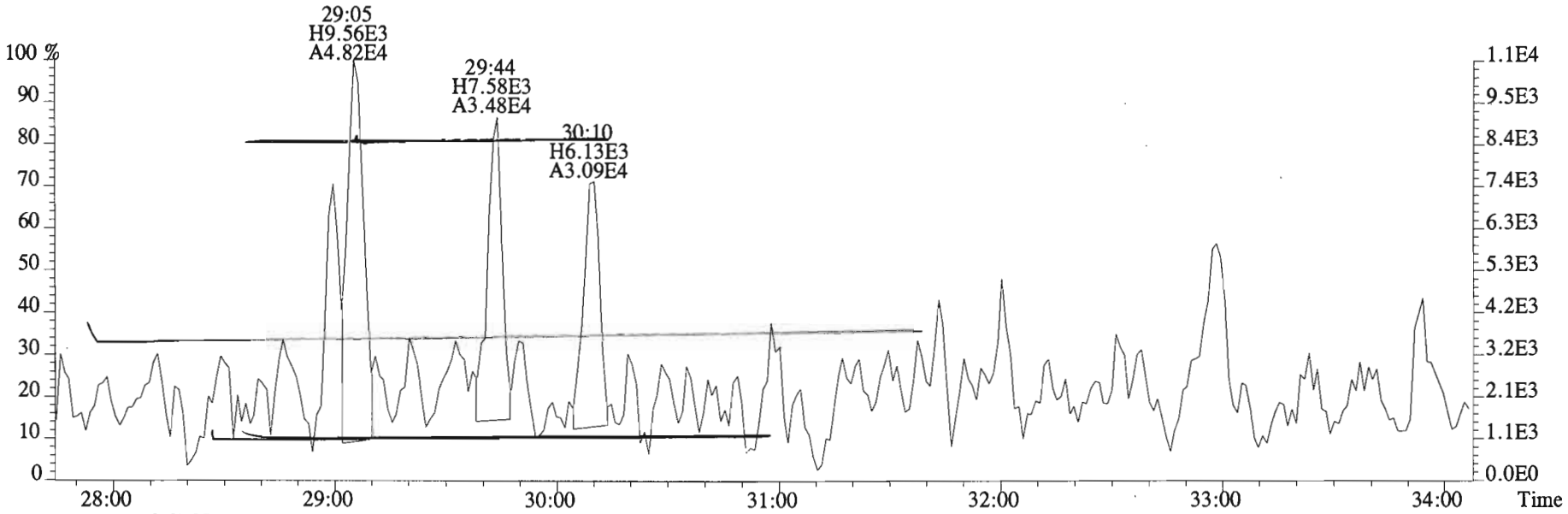
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,38296.0,0.00%,F,F)



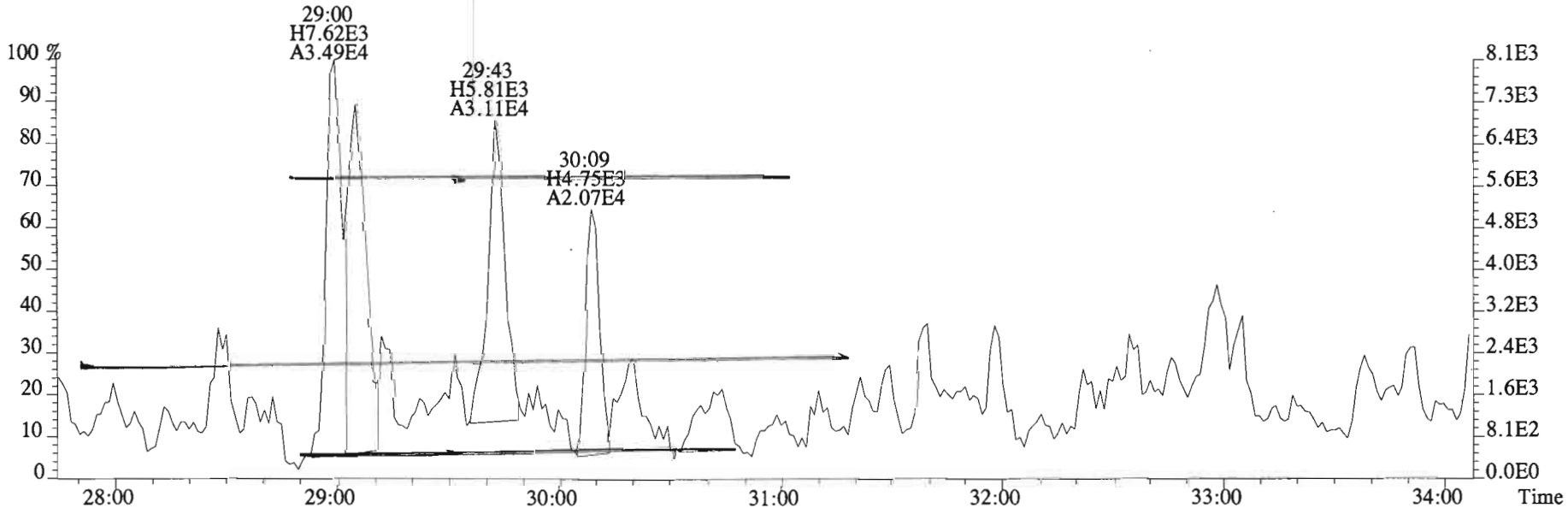
269.9986 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26776.0,0.00%,F,F)



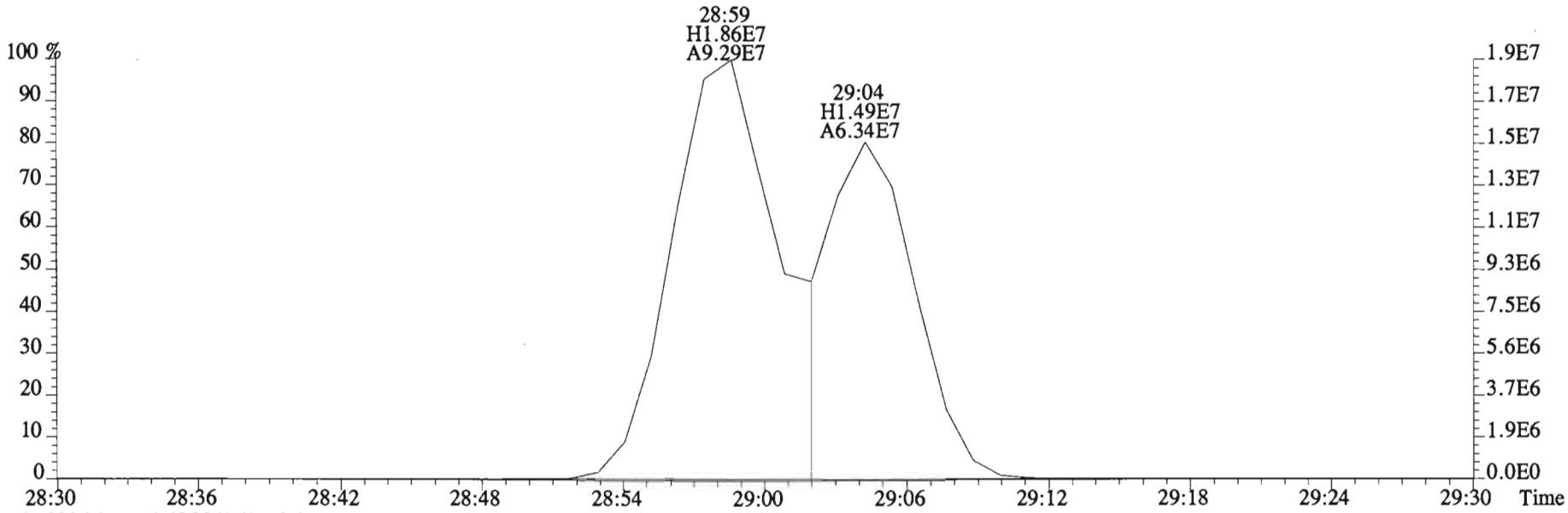
File:150205E1 #1-758 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2904.0,0.00%,F,F)



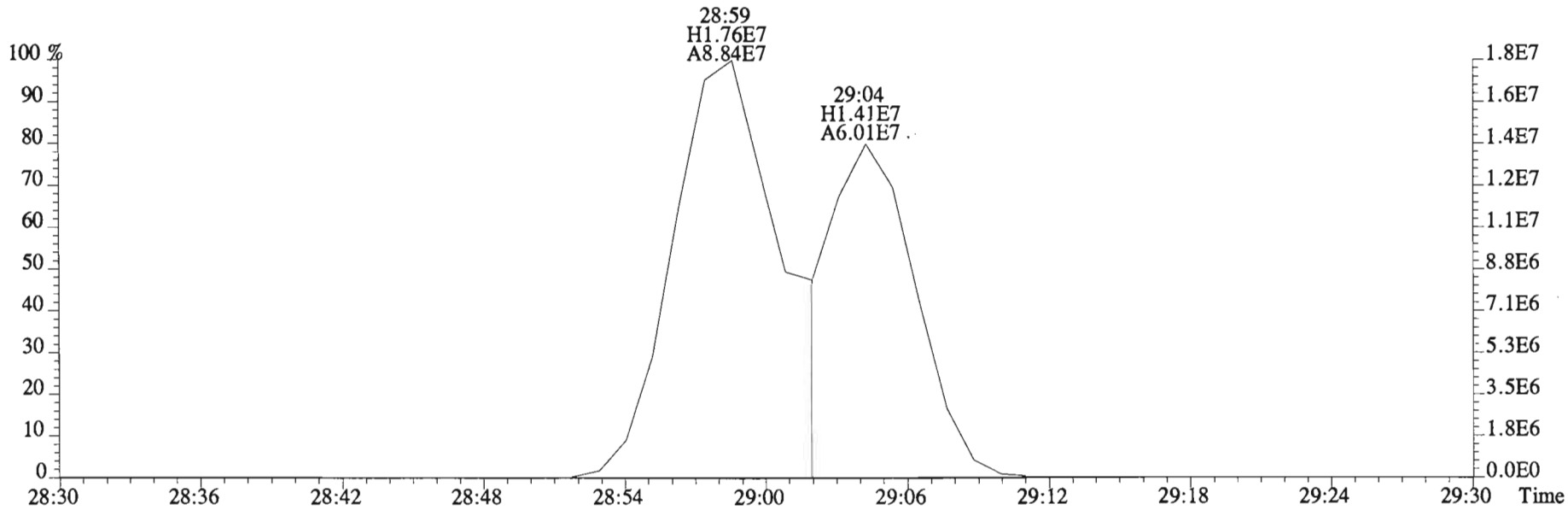
257.9584 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1892.0,0.00%,F,F)



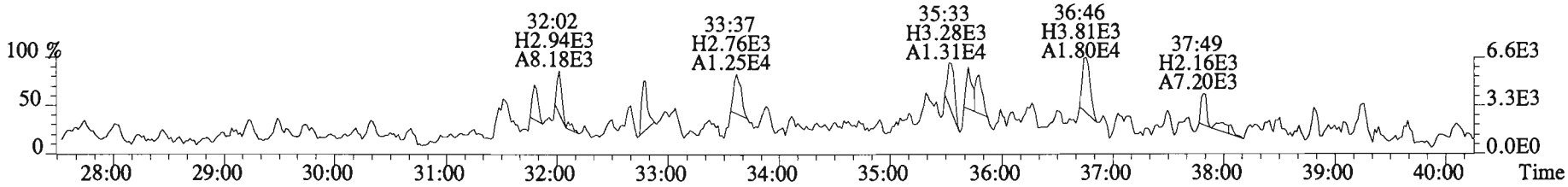
File:150205E1 #1-758 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,38296.0,0.00%,F,F)



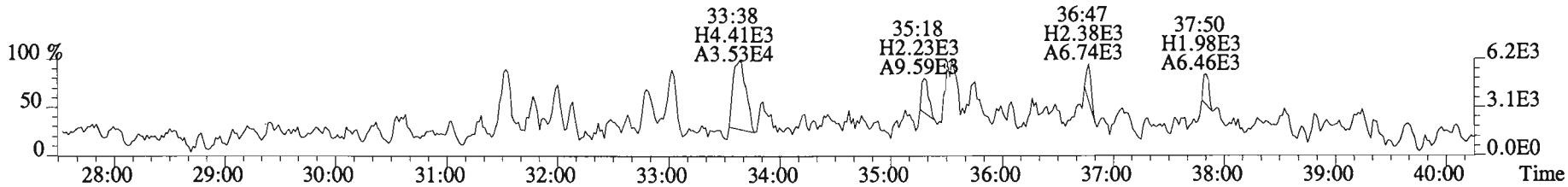
269.9986 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26776.0,0.00%,F,F)



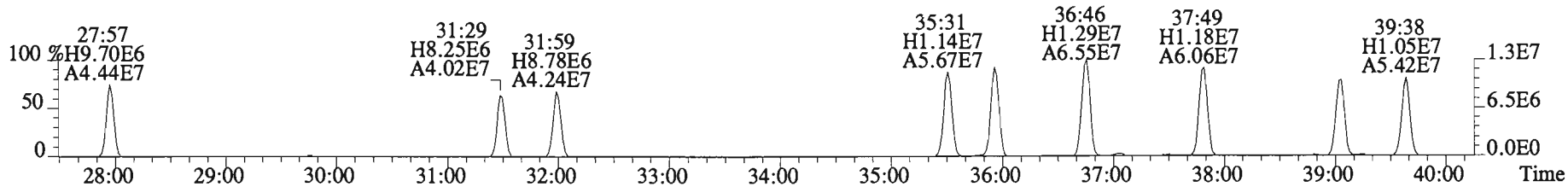
File:150205E1 #1-758 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2088.0,0.00%,F,F)



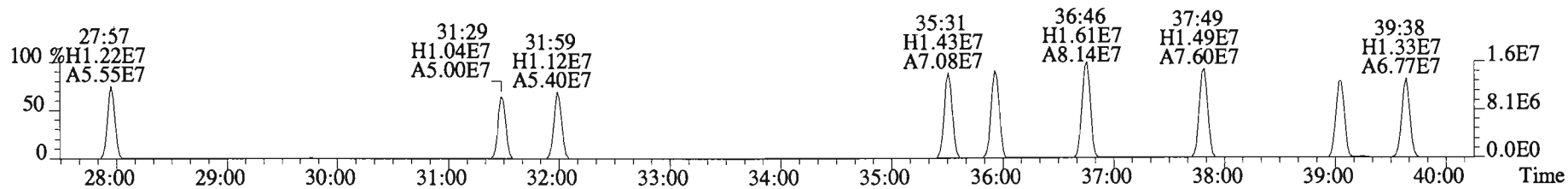
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2188.0,0.00%,F,F)



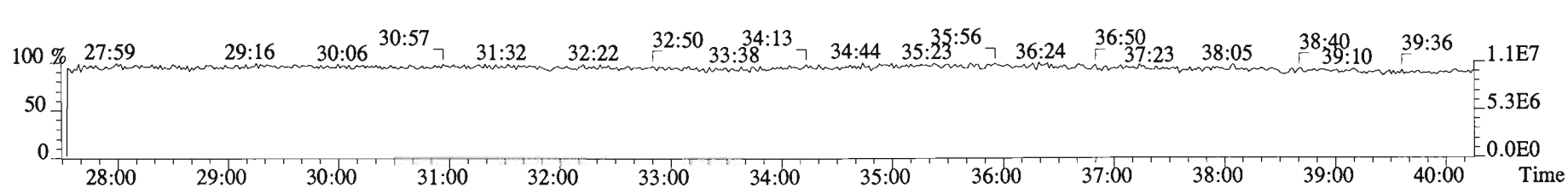
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8848.0,0.00%,F,F)



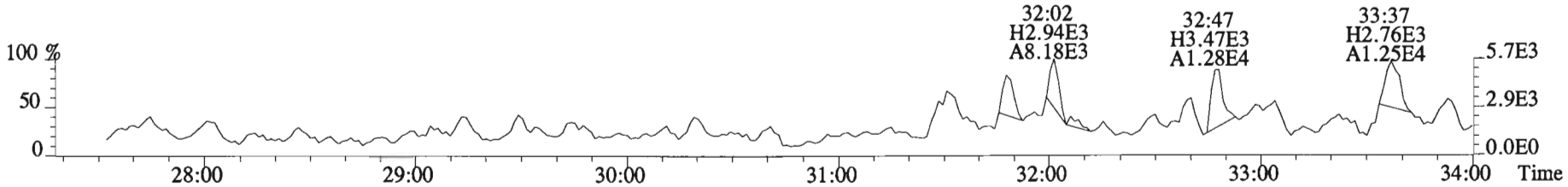
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6116.0,0.00%,F,F)



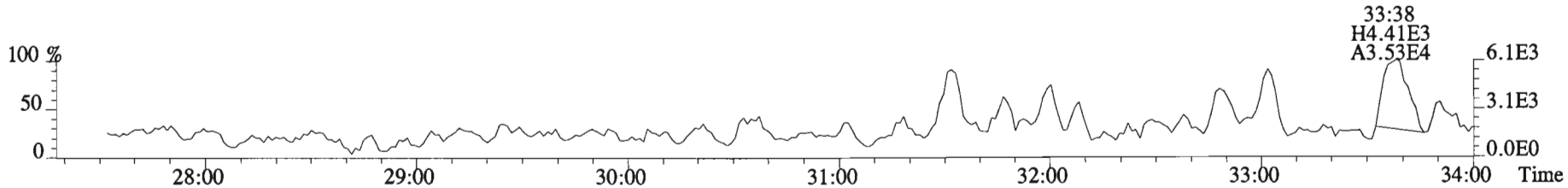
330.9792 S:4 F:3



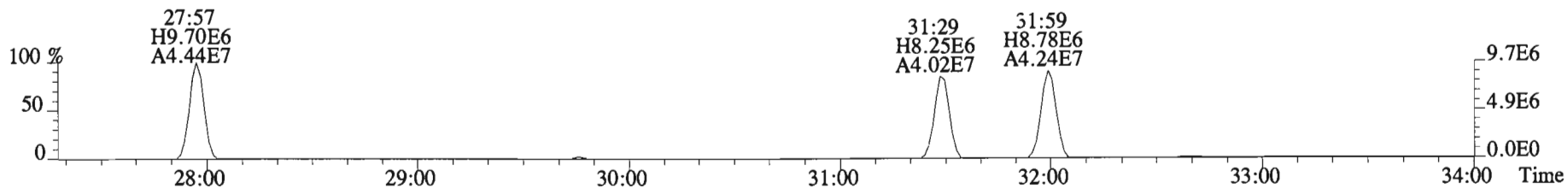
File:150205E1 #1-758 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2088.0,0.00%,F,F)



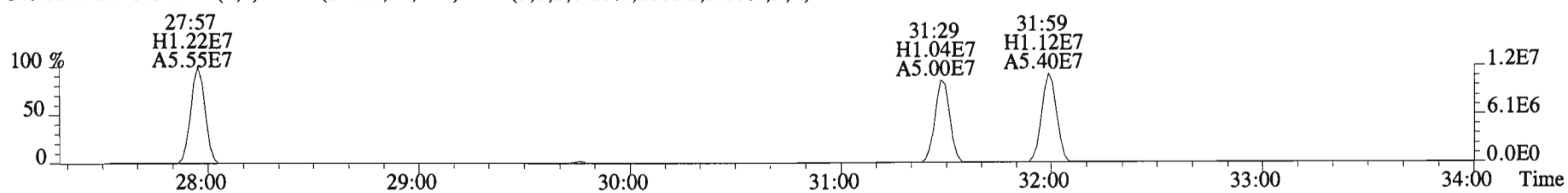
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2188.0,0.00%,F,F)



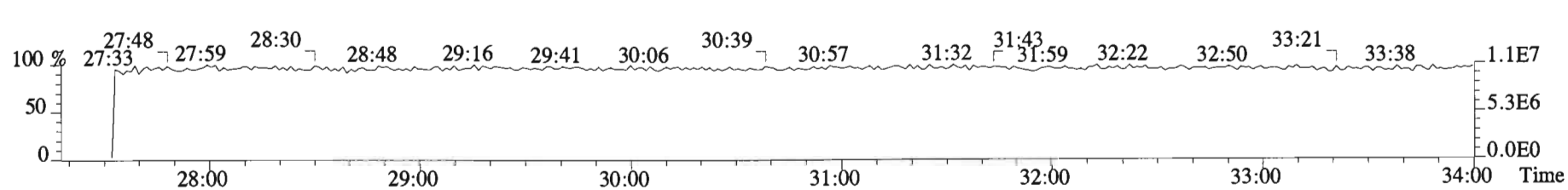
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8848.0,0.00%,F,F)



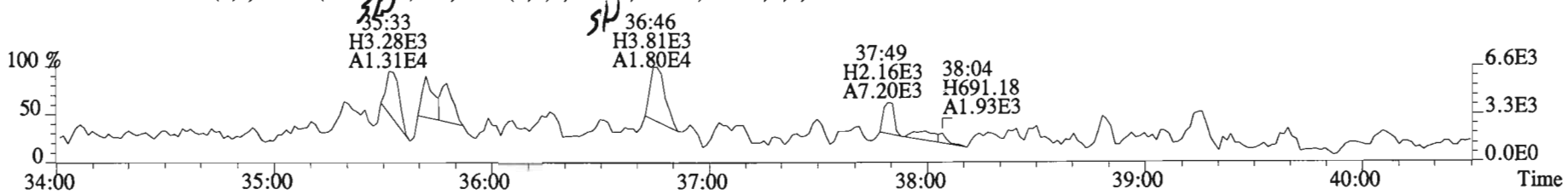
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6116.0,0.00%,F,F)



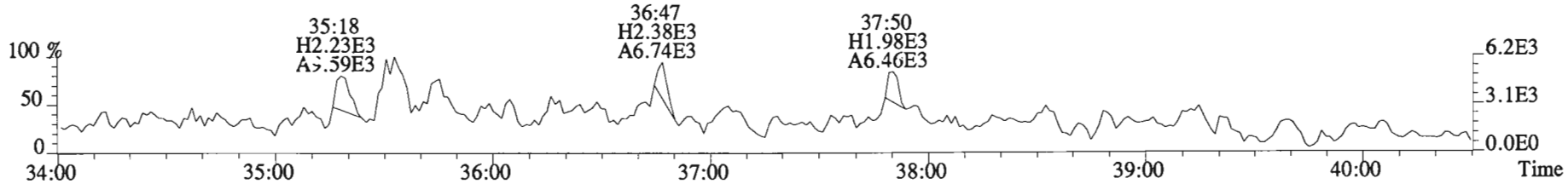
330.9792 S:4 F:3



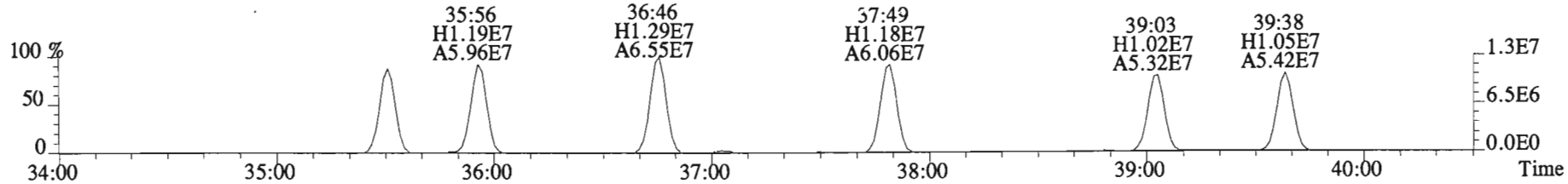
File:150205E1 #1-758 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2088.0,0.00%,F,F)



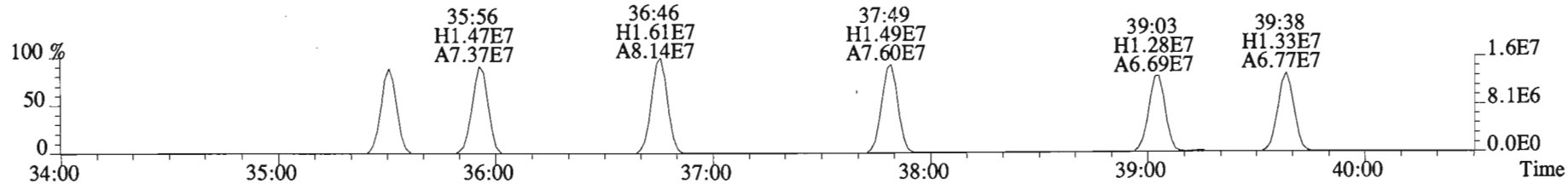
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2188.0,0.00%,F,F)



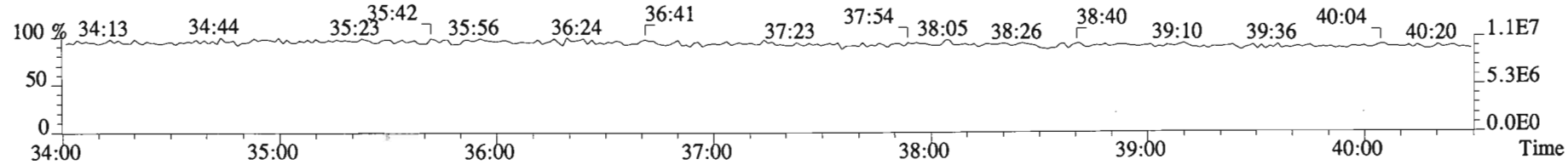
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8848.0,0.00%,F,F)



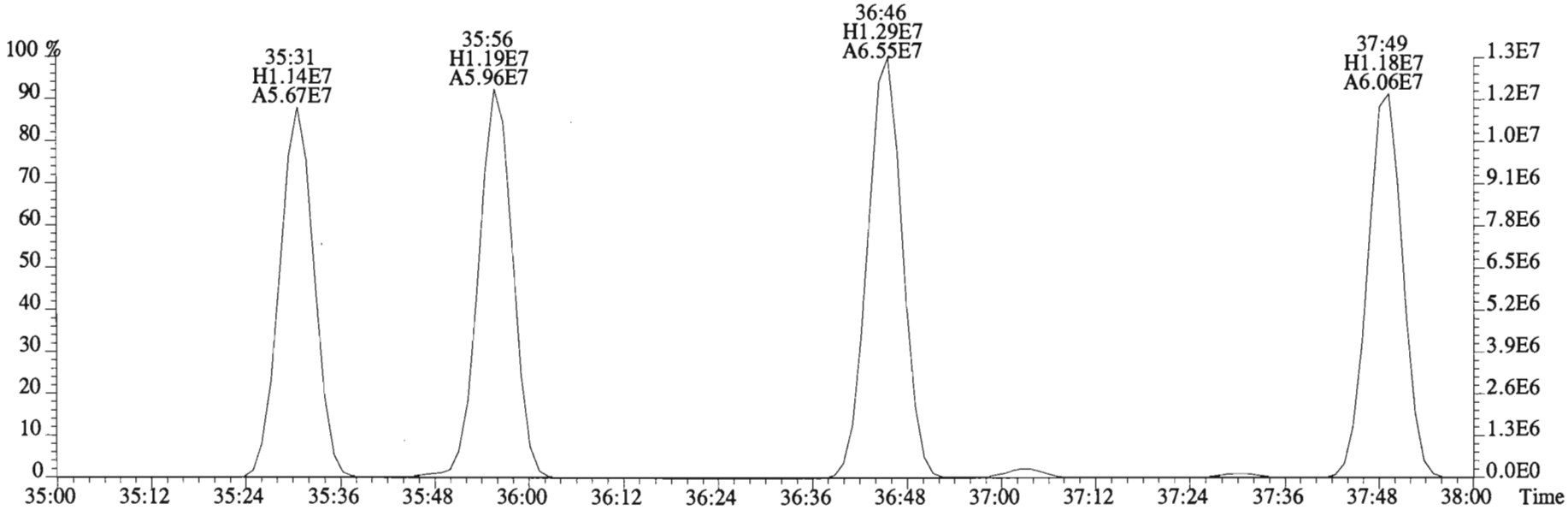
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6116.0,0.00%,F,F)



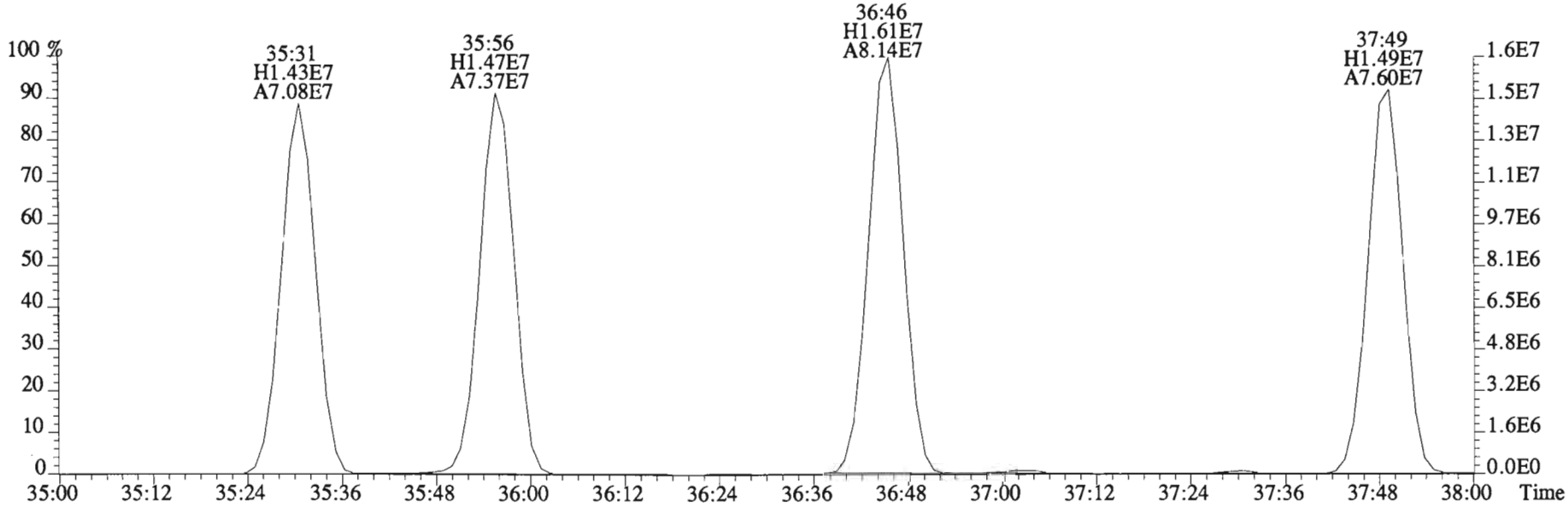
330.9792 S:4 F:3



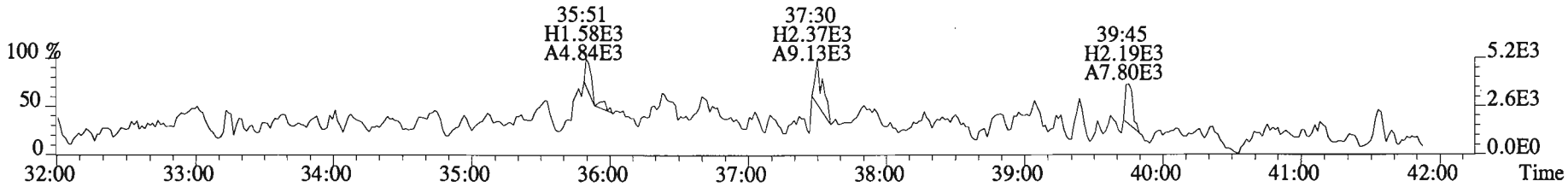
File:150205E1 #1-758 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8848.0,0.00%,F,F)



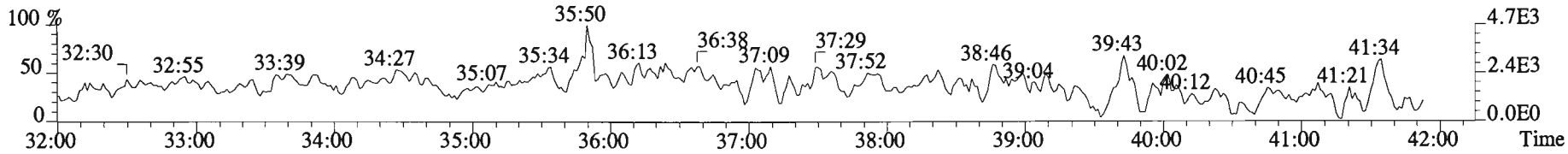
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6116.0,0.00%,F,F)



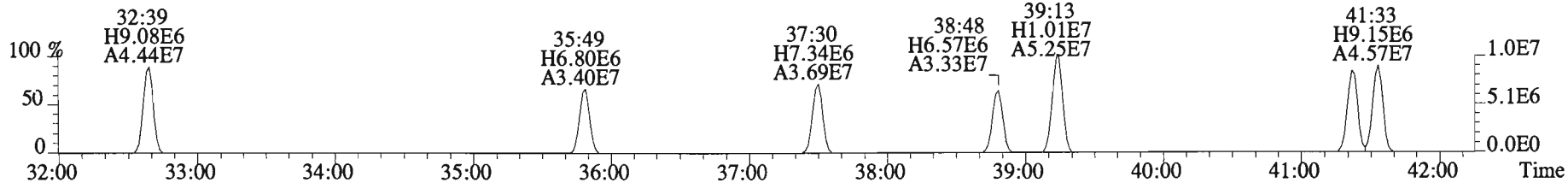
File:150205E1 #1-758 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1976.0,0.00%,F,F)



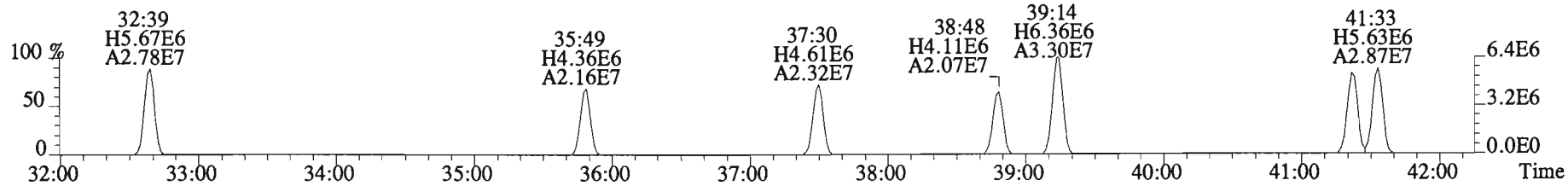
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2184.0,0.00%,F,F)



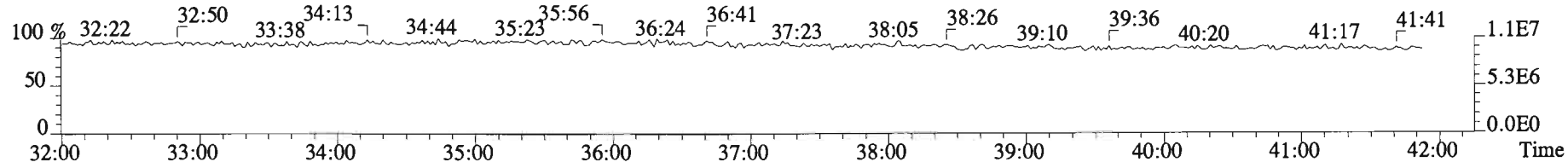
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2040.0,0.00%,F,F)



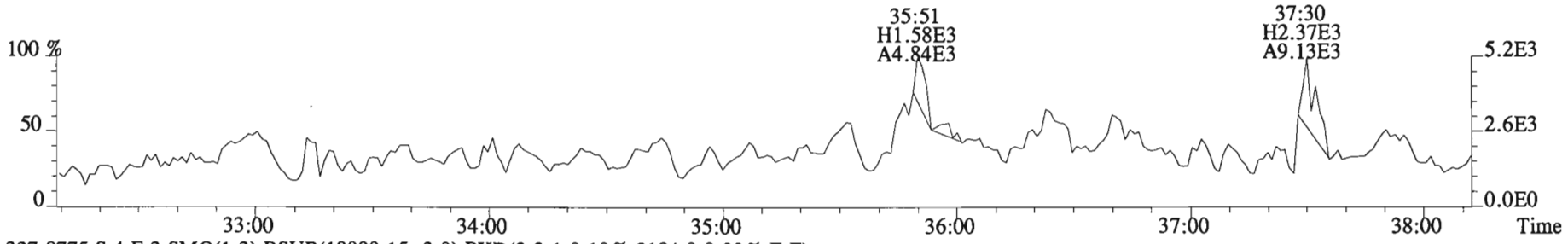
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1896.0,0.00%,F,F)



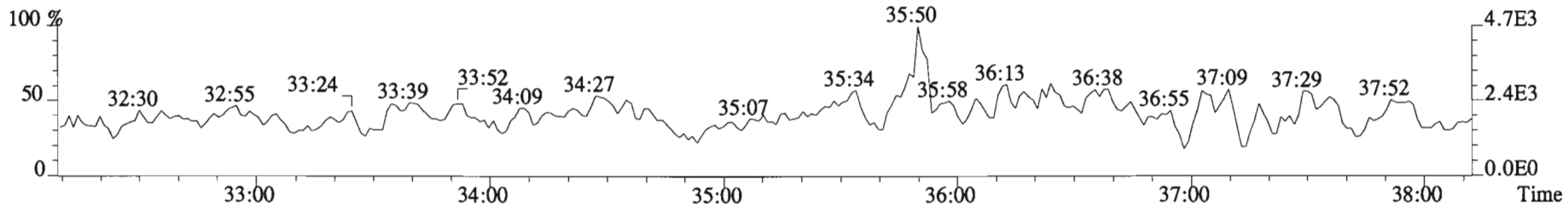
330.9792 S:4 F:3



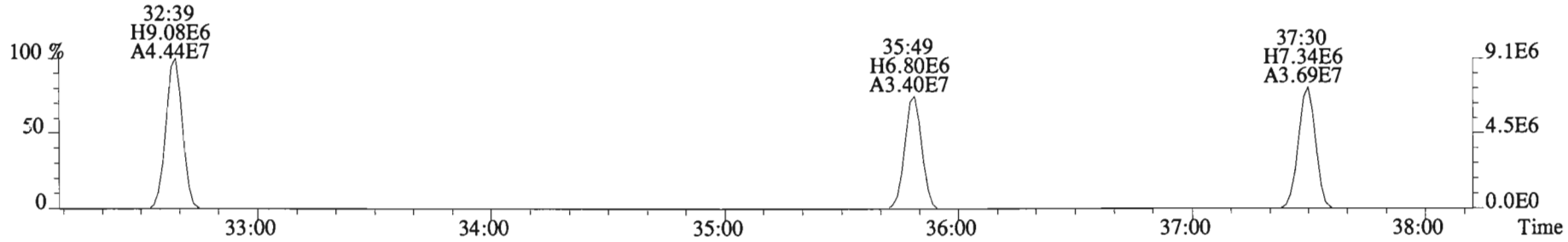
File:150205E1 #1-758 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1976.0,0.00%,F,F)



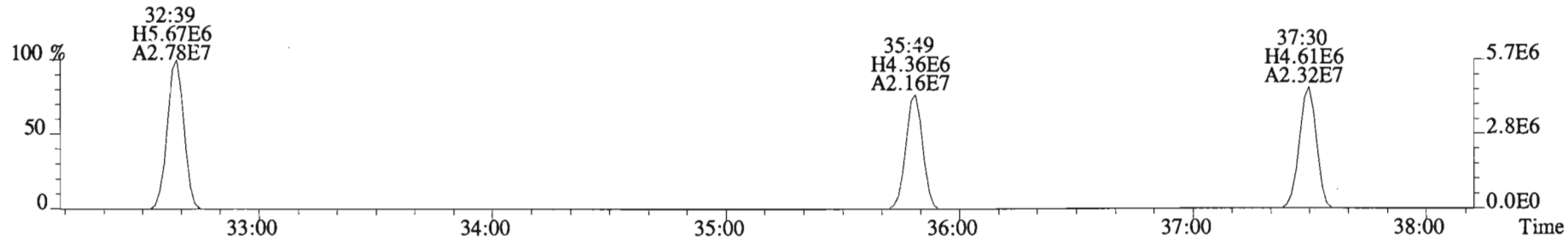
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2184.0,0.00%,F,F)



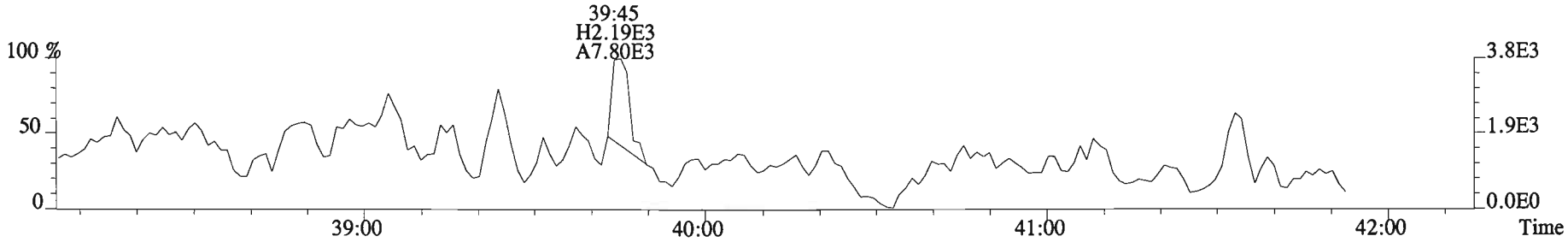
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2040.0,0.00%,F,F)



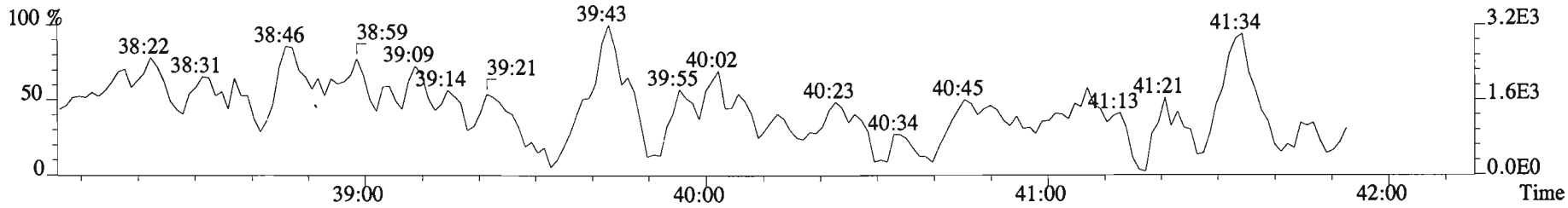
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1896.0,0.00%,F,F)



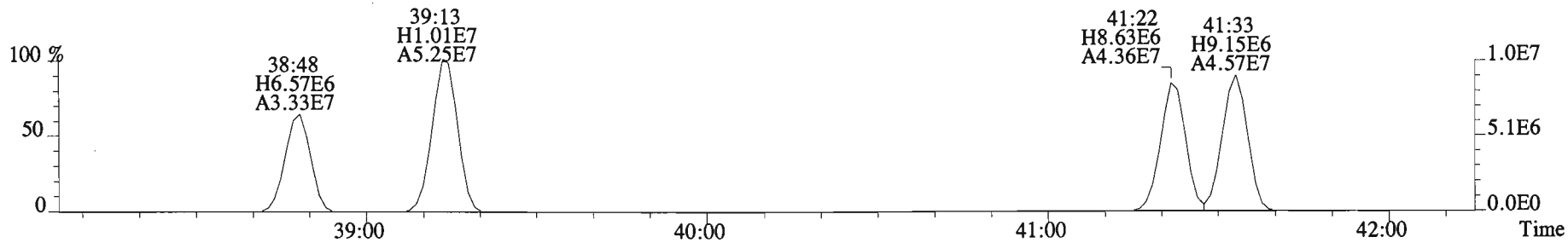
File:150205E1 #1-758 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1976.0,0.00%,F,F)



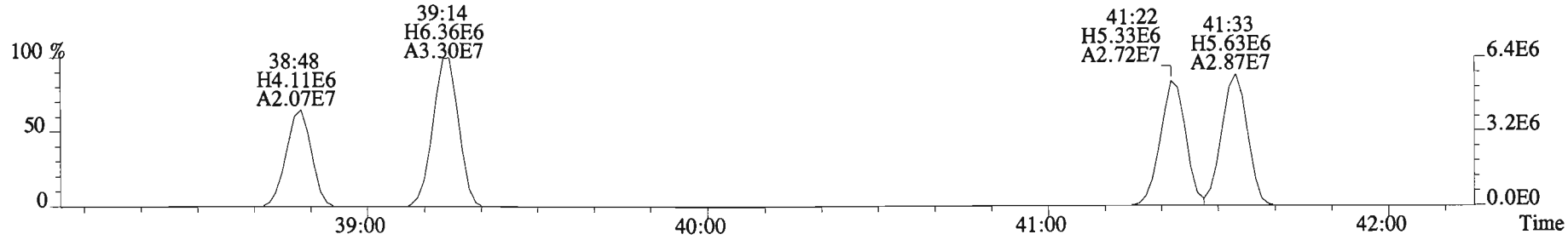
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2184.0,0.00%,F,F)



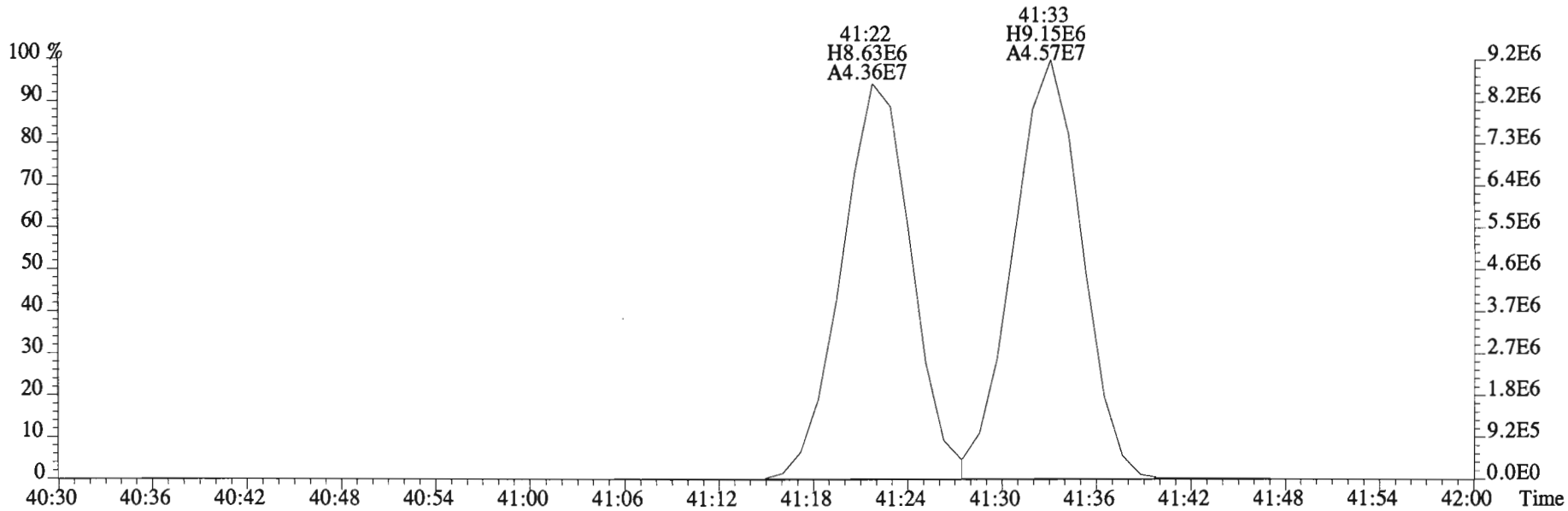
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2040.0,0.00%,F,F)



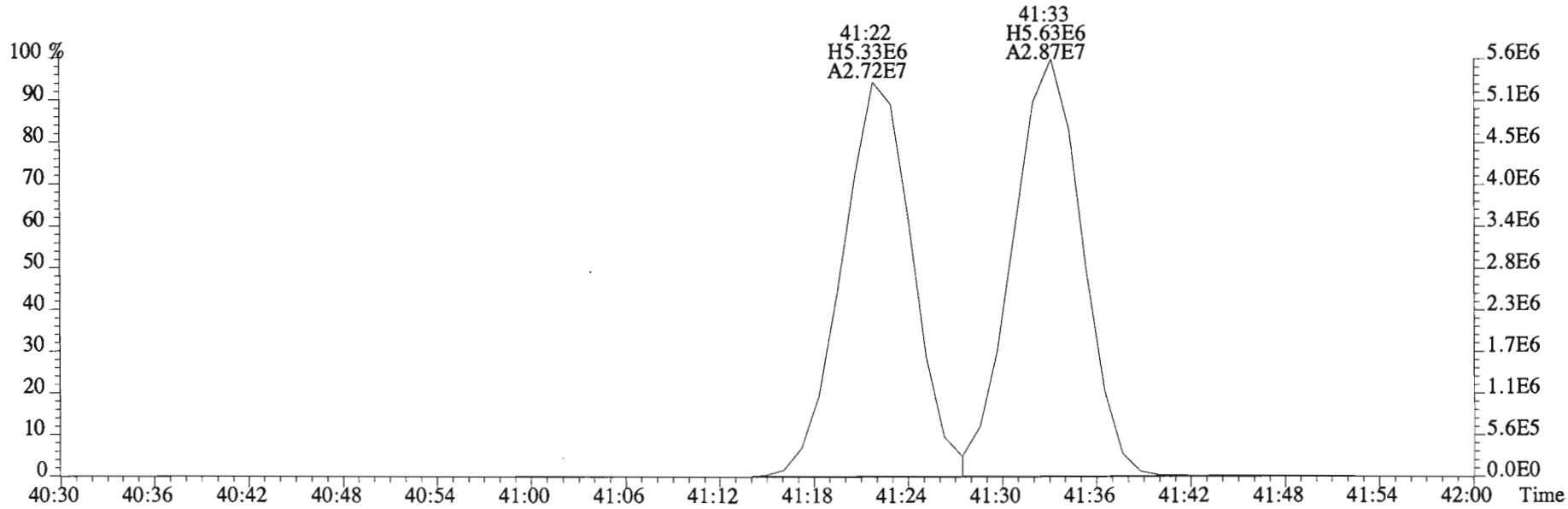
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1896.0,0.00%,F,F)



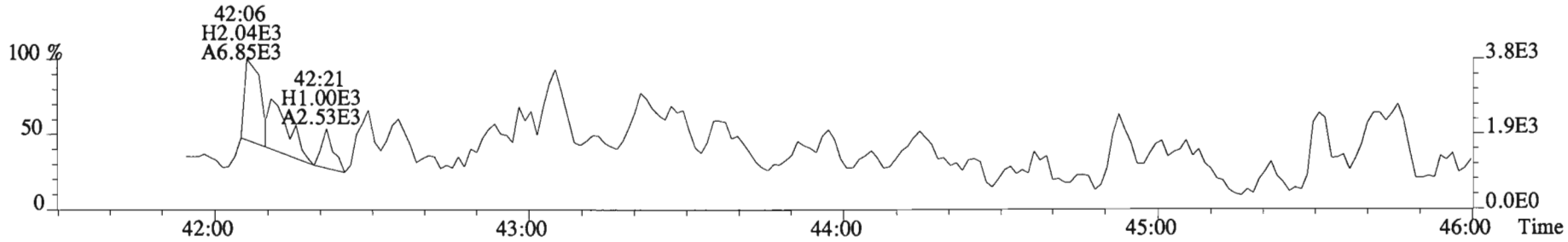
File:150205E1 #1-758 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2040.0,0.00%,F,F)



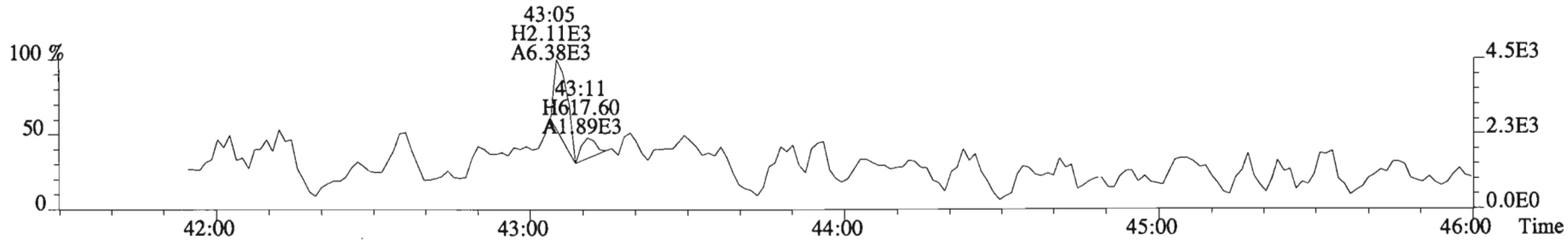
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1896.0,0.00%,F,F)



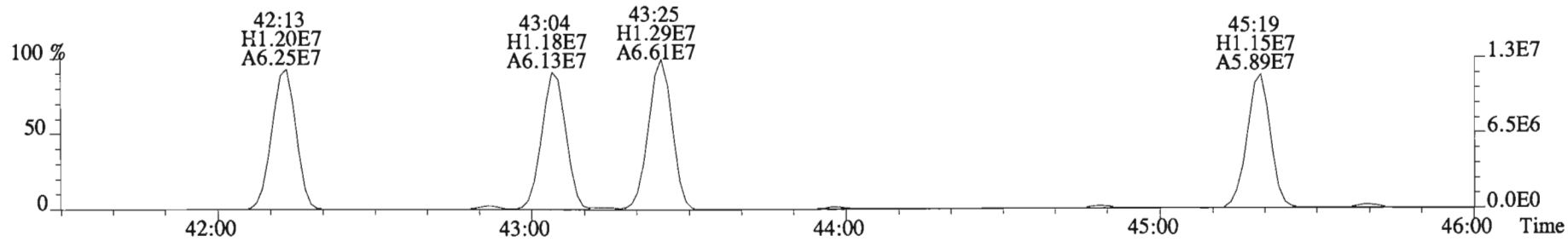
File:150205E1 #1-555 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2076.0,0.00%,F,F)



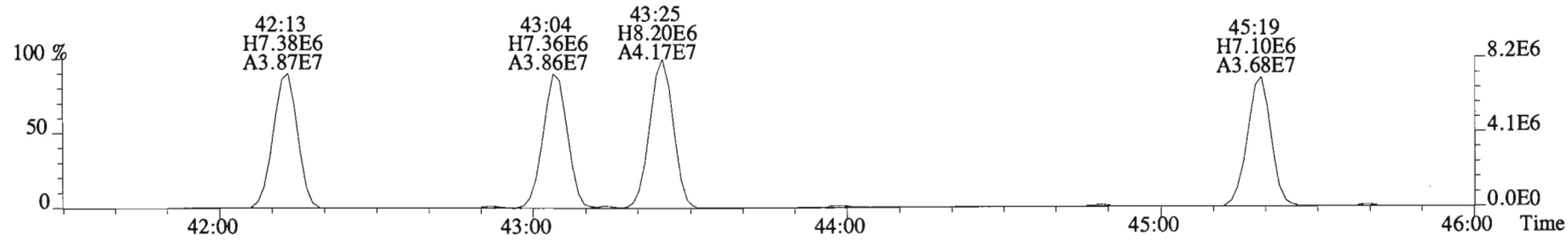
327.8775 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1836.0,0.00%,F,F)



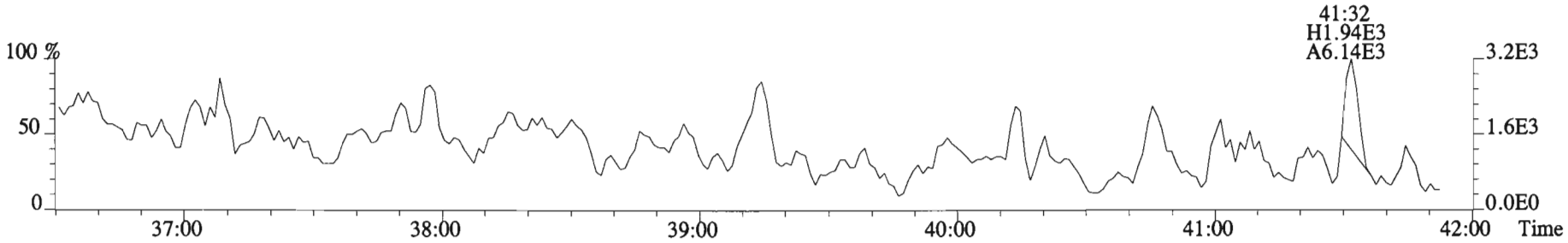
337.9207 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6172.0,0.00%,F,F)



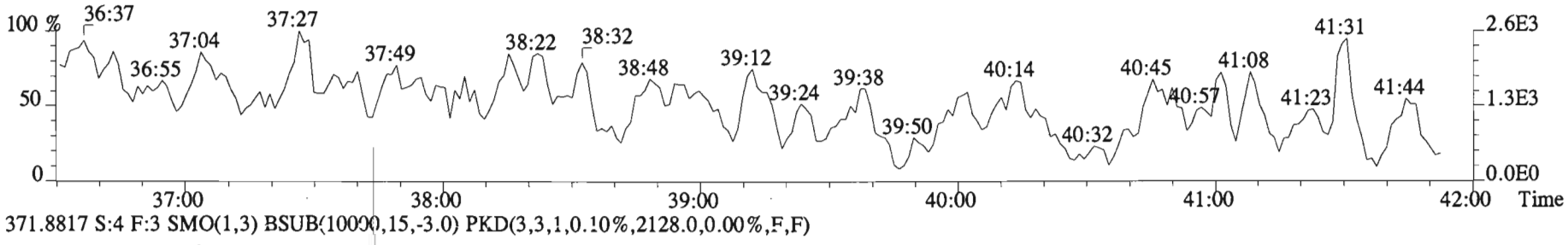
339.9177 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4572.0,0.00%,F,F)



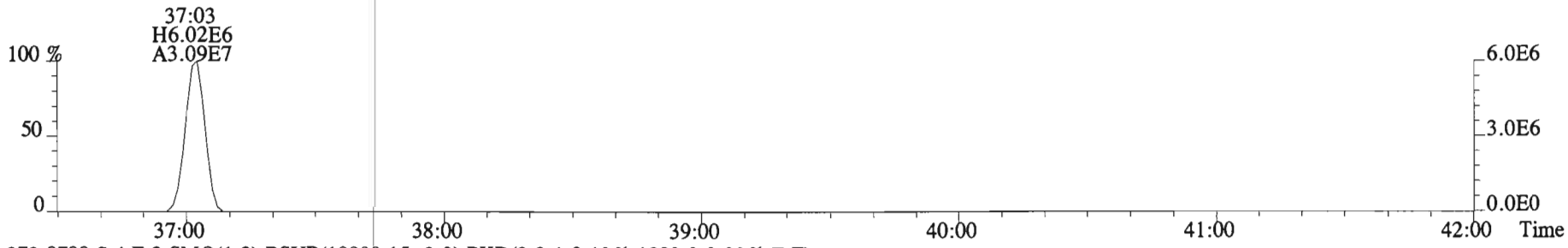
File:150205E1 #1-758 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1876.0,0.00%,F,F)



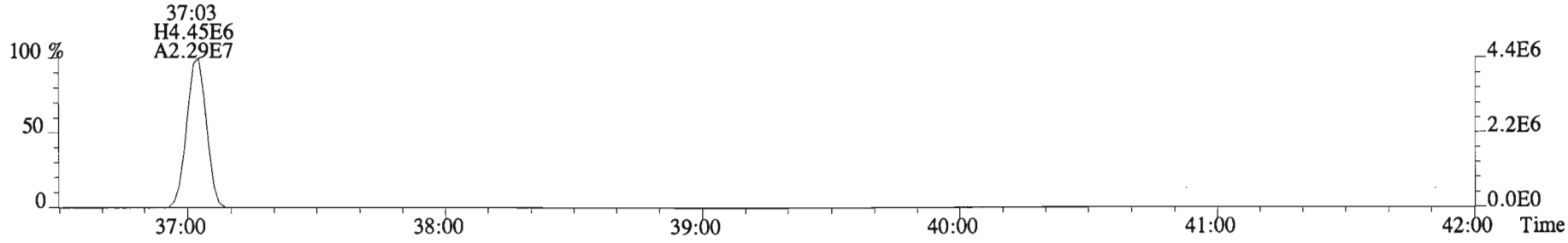
361.8385 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1900.0,0.00%,F,F)



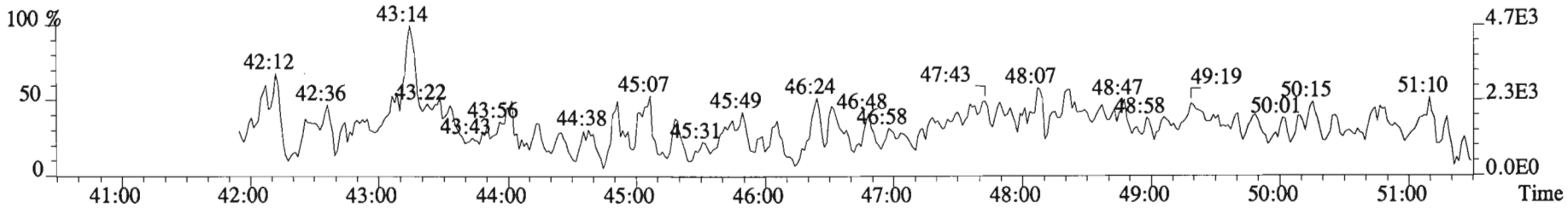
371.8817 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2128.0,0.00%,F,F)



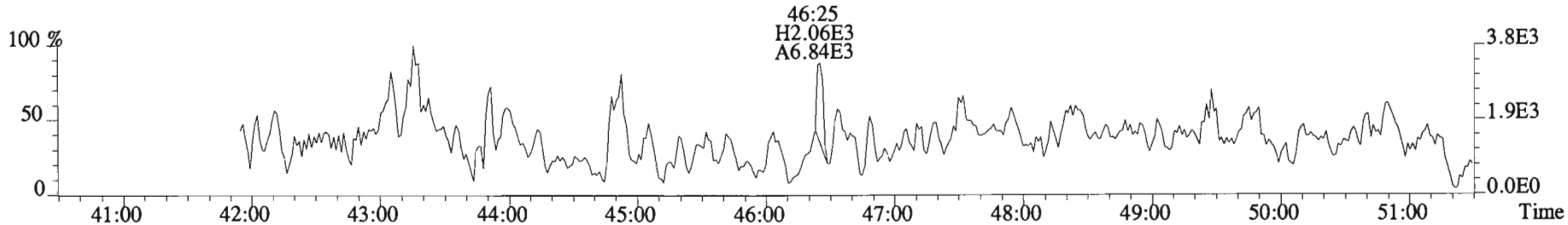
373.8788 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1880.0,0.00%,F,F)



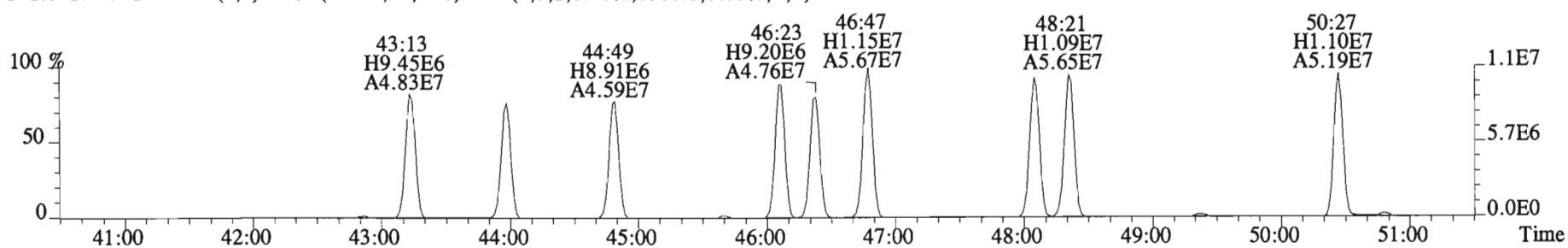
File:150205E1 #1-555 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1920.0,0.00%,F,F)



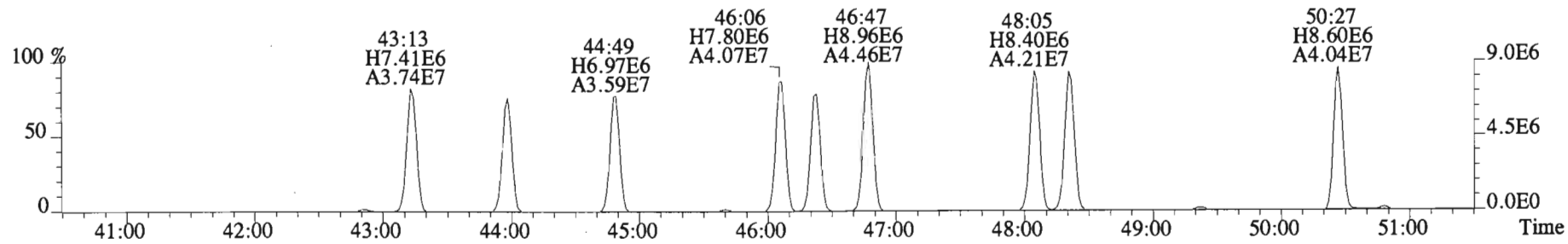
361.8385 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1804.0,0.00%,F,F)



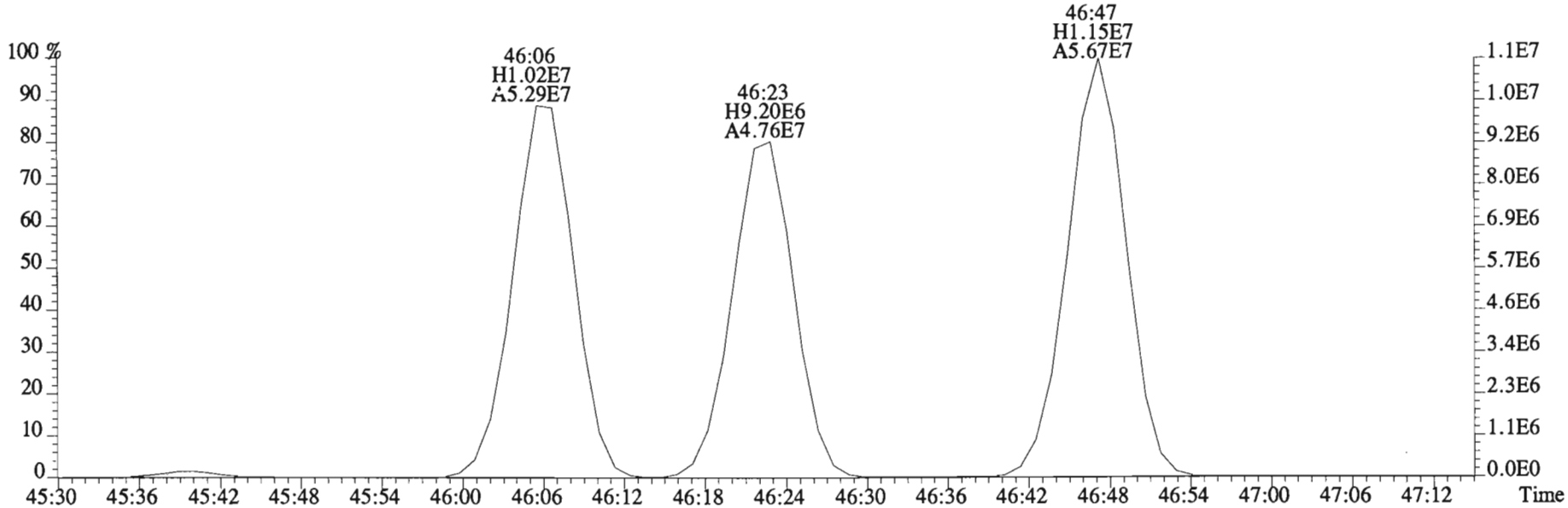
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6568.0,0.00%,F,F)



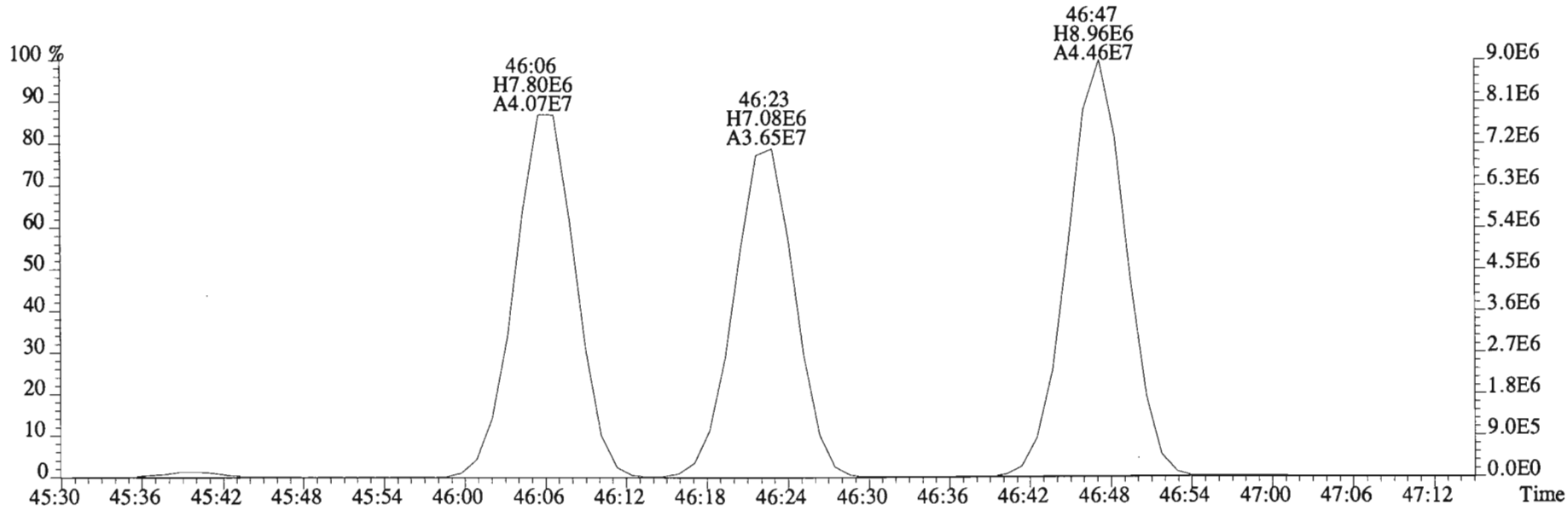
373.8788 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5868.0,0.00%,F,F)



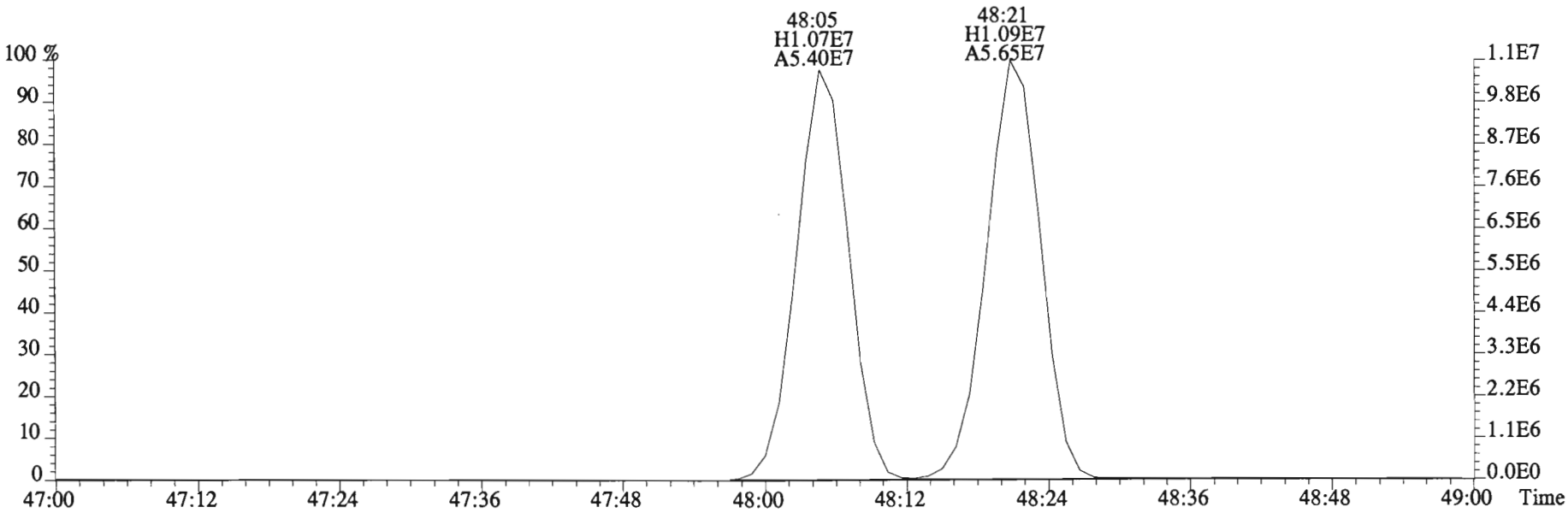
File:150205E1 #1-555 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6568.0,0.00%,F,F)



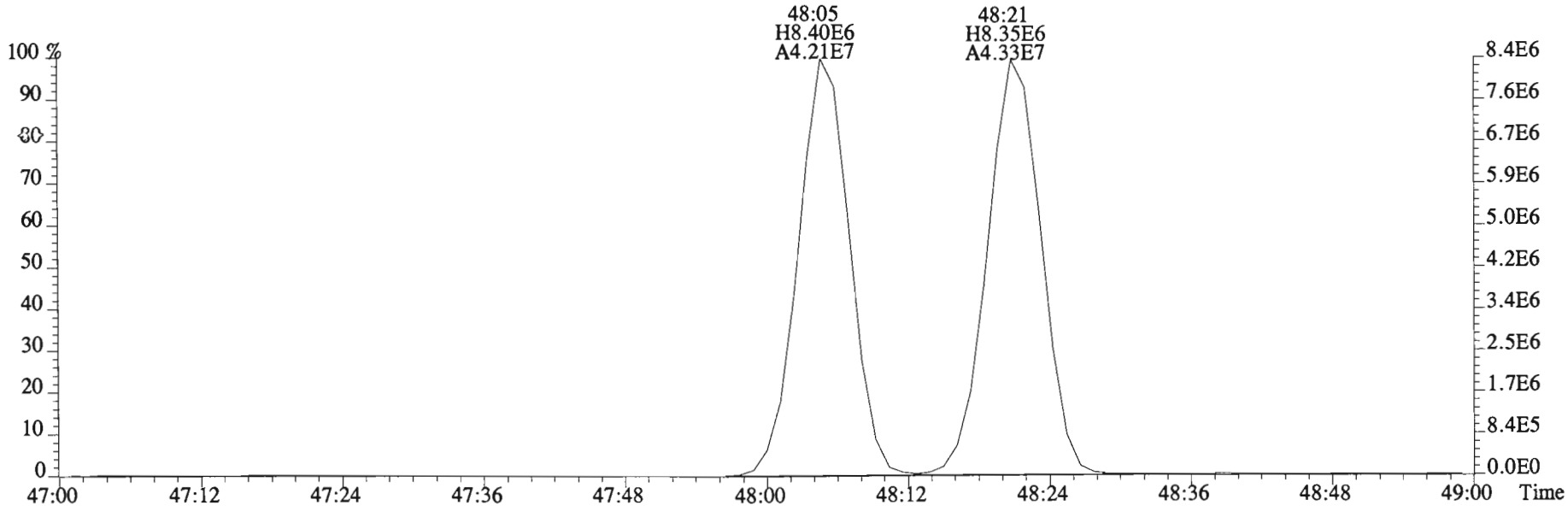
373.8788 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5868.0,0.00%,F,F)



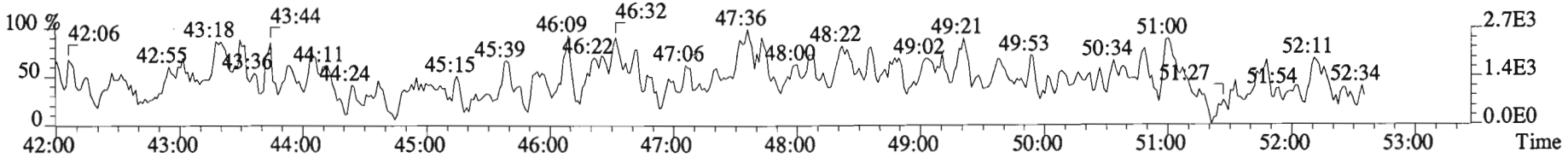
File:150205E1 #1-555 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6568.0,0.00%,F,F)



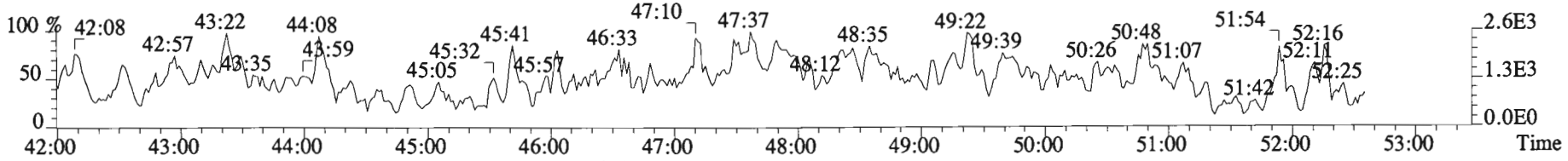
373.8788 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5868.0,0.00%,F,F)



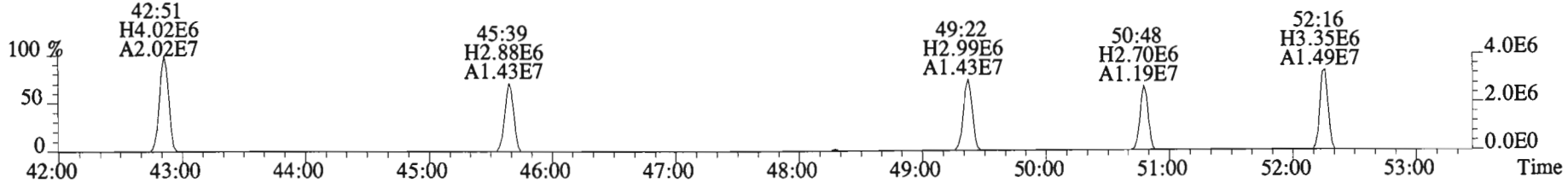
File:150205E1 #1-555 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1604.0,0.00%,F,F)



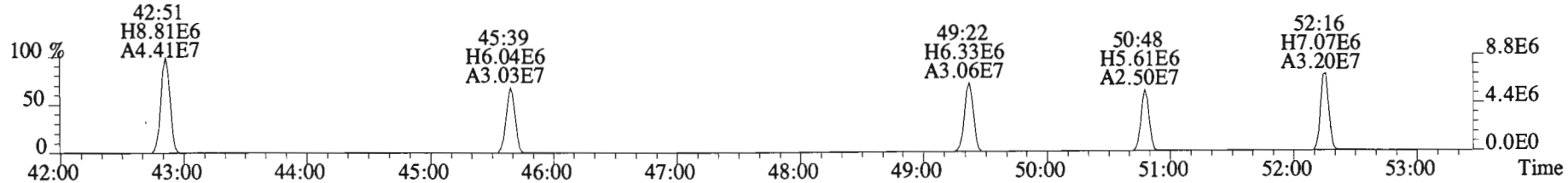
395.7995 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1688.0,0.00%,F,F)



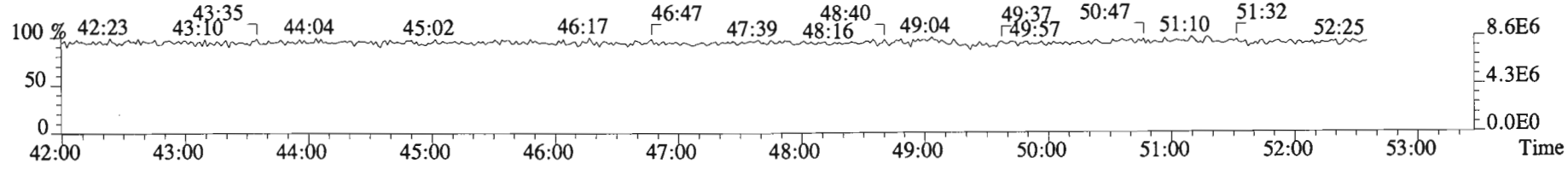
403.8457 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2172.0,0.00%,F,F)



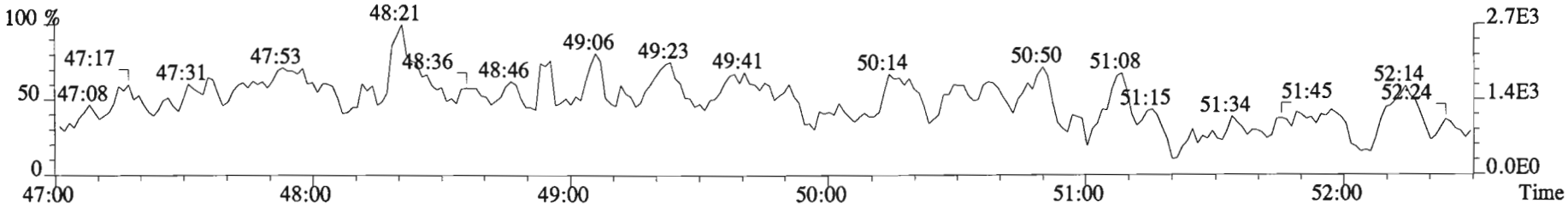
405.8428 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4268.0,0.00%,F,F)



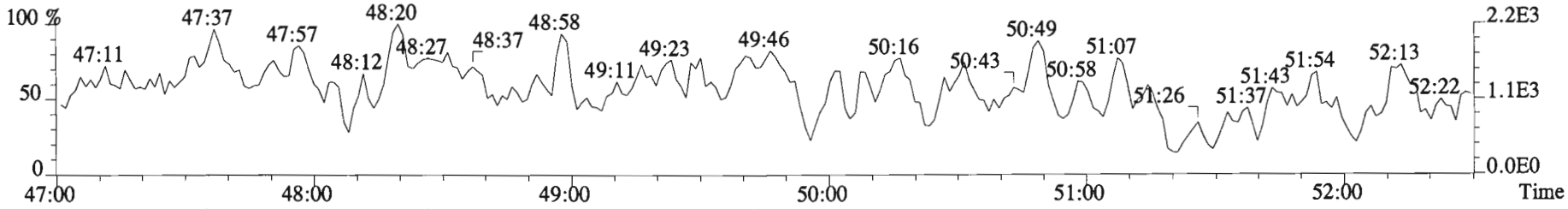
380.9760 S:4 F:4



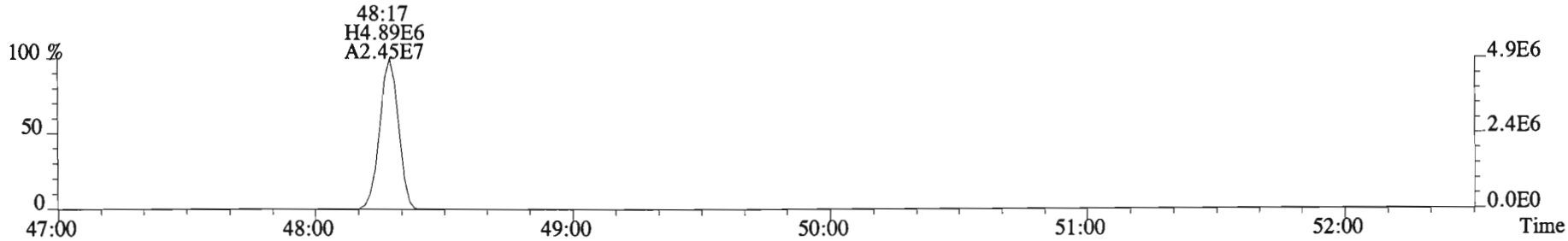
File:150205E1 #1-555 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1632.0,0.00%,F,F)



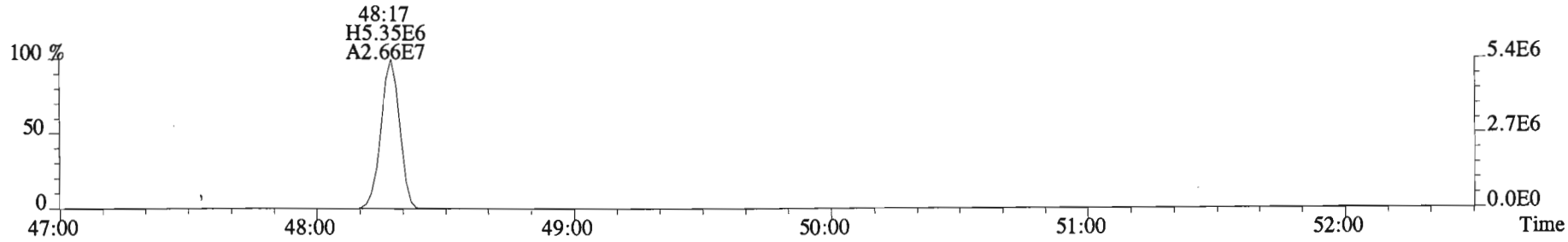
429.7606 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1568.0,0.00%,F,F)



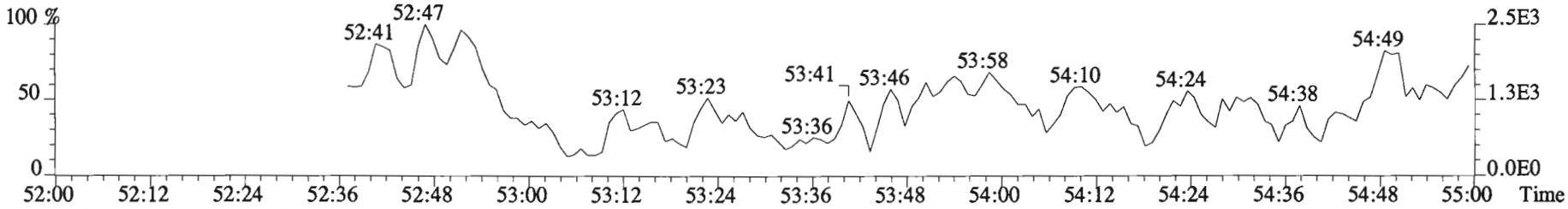
439.8038 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2028.0,0.00%,F,F)



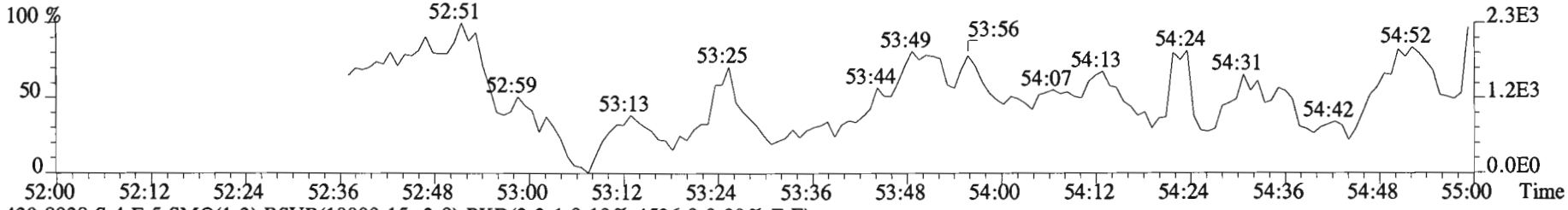
441.8008 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1776.0,0.00%,F,F)



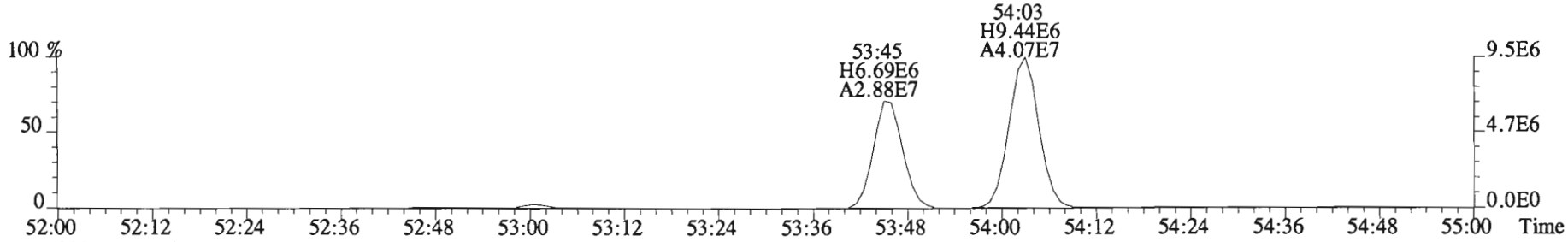
File:150205E1 #1-430 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
427.7635 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1444.0,0.00%,F,F)



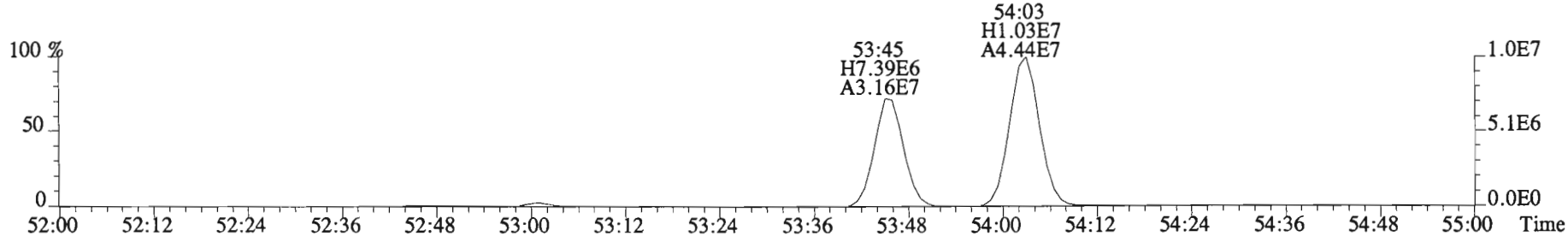
429.7606 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1516.0,0.00%,F,F)



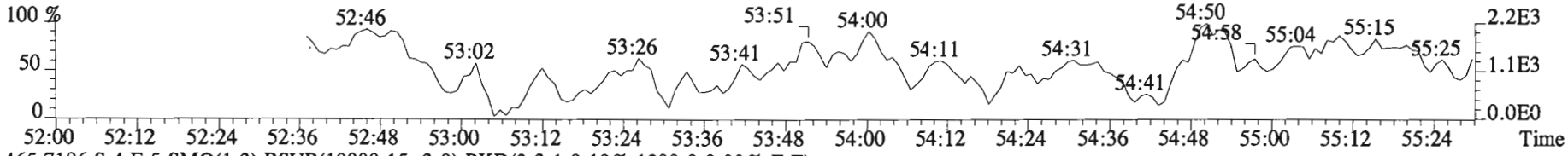
439.8038 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4536.0,0.00%,F,F)



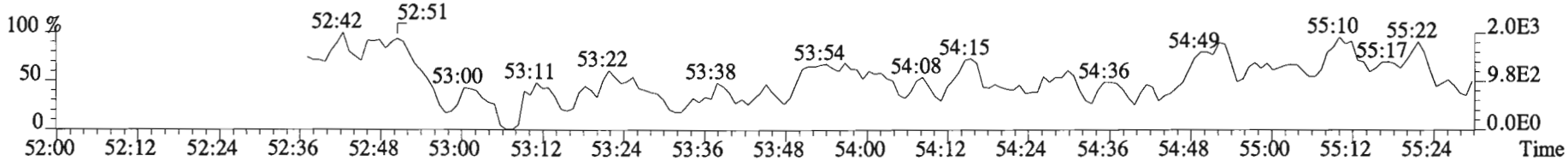
441.8008 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3964.0,0.00%,F,F)



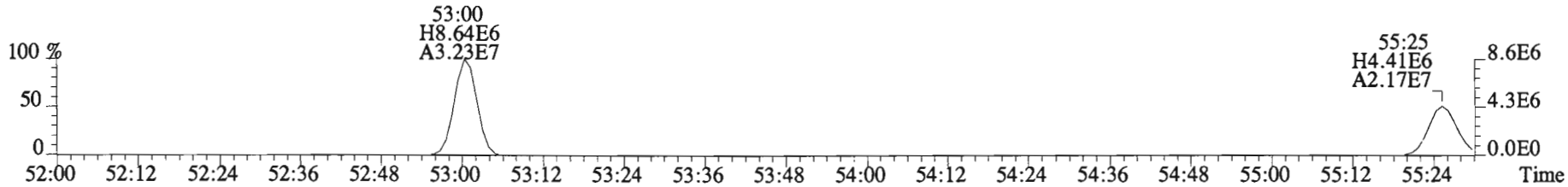
File:150205E1 #1-430 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
463.7216 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1480.0,0.00%,F,F)



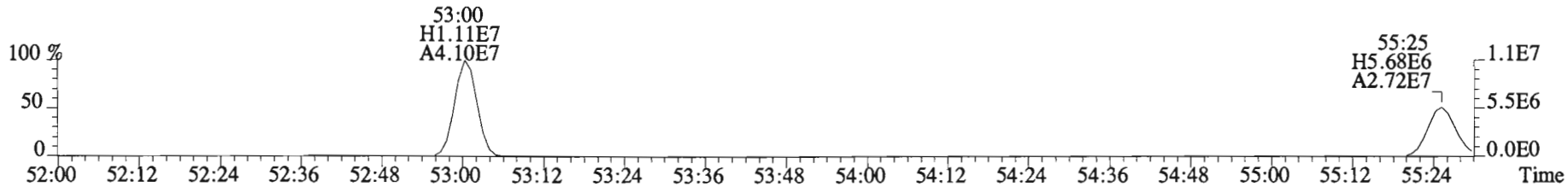
465.7186 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1200.0,0.00%,F,F)



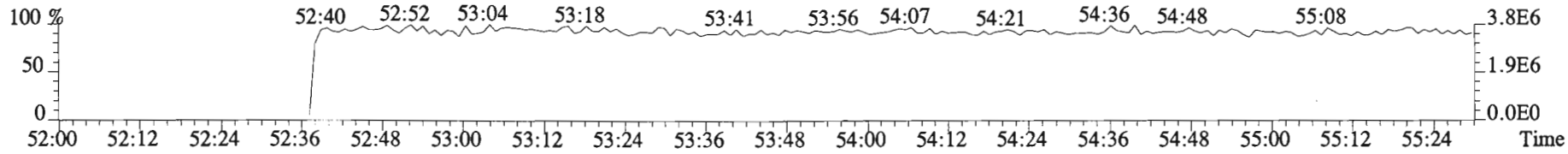
473.7648 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9828.0,0.00%,F,F)



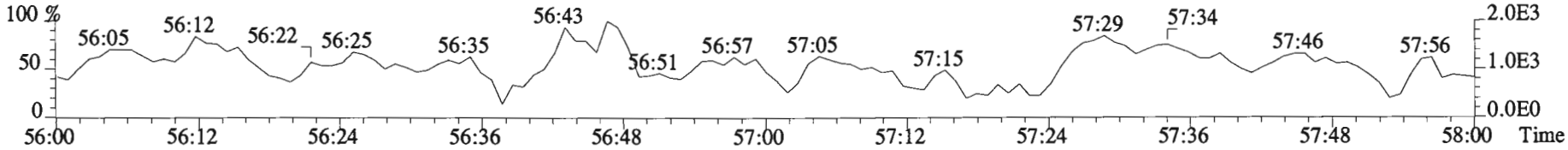
475.7619 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14356.0,0.00%,F,F)



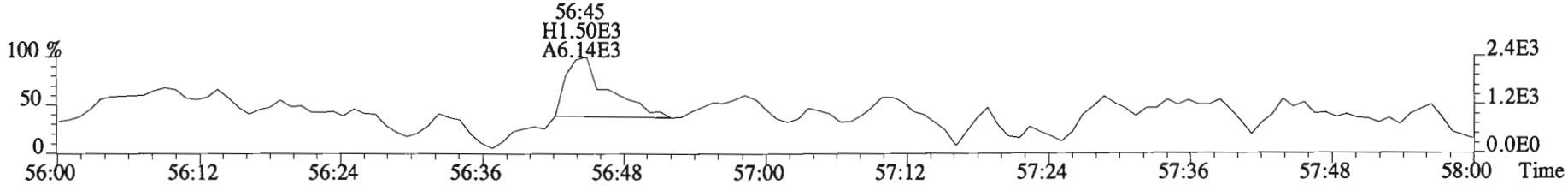
492.9697 S:4 F:5



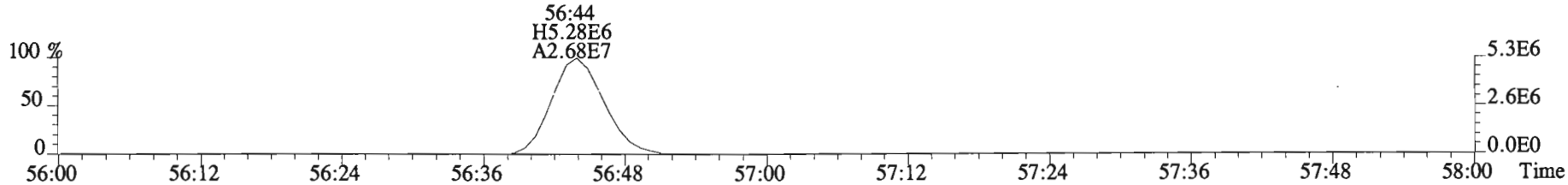
File:150205E1 #1-430 Acq: 5-FEB-2015 12:12:16 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BLK1 Method Blank 10 Exp:PCB_ZB1
497.6826 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1396.0,0.00%,F,F)



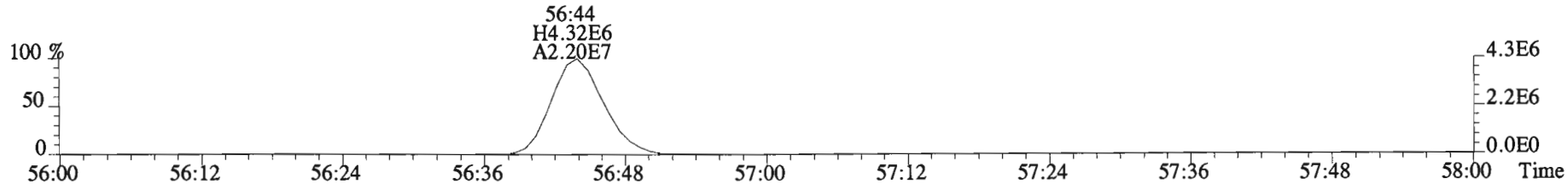
499.6797 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1328.0,0.00%,F,F)



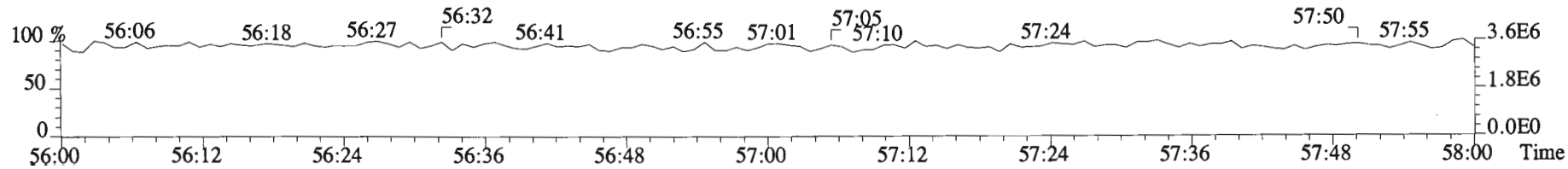
509.7229 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1440.0,0.00%,F,F)



511.7199 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1488.0,0.00%,F,F)



492.9697 S:4 F:5



EPA METHOD 1668C PCB ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory OPR Data Filename: B5A0115-BS1

Matrix : SOLID Ext. Date: 1-29-15 Analysis Date: 5-FEB-15 Time: 10:04:19

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

NATIVE ANALYTES	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	LABELED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	CLEAN UP STANDARD	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)
PCB-1	50	46.6	30.0-67.5	13C-PCB-1	100	70.1	15-145	13C-PCB-79	100	87.8	40-145
PCB-3	50	46.3	30.0-67.5	13C-PCB-3	100	70.9	15-145	13C-PCB-178	100	82.0	40-145
PCB-4/10	200	209.7	120-270	13C-PCB-4	100	65.9	15-145				
PCB-15	100	104.3	60.0-135	13C-PCB-11	100	74.7	15-145				
PCB-19	50	50.3	30.0-67.5	13C-PCB-19	100	68.8	15-145				
PCB-37	50	54.5	30.0-67.5	13C-PCB-37	100	86.0	15-145				
PCB-54	50	51.0	30.0-67.5	13C-PCB-54	100	67.6	15-145				
PCB-81	50	50.2	30.0-67.5	13C-PCB-81	100	84.8	40-145				
PCB-77	50	51.6	30.0-67.5	13C-PCB-77	100	84.6	40-145				
PCB-104	50	53.6	30.0-67.5	13C-PCB-104	100	79.7	40-145				
PCB-123	50	53.4	30.0-67.5	13C-PCB-123	100	89.7	40-145				
PCB-106/118	100	105.5	60.0-135	13C-PCB-118	100	87.9	40-145				
PCB-114	50	52.5	30.0-67.5	13C-PCB-114	100	85.4	40-145				
PCB-105	50	53.7	30.0-67.5	13C-PCB-105	100	81.1	40-145				
PCB-126	50	55.3	30.0-67.5	13C-PCB-126	100	82.8	40-145				
PCB-155	50	52.7	30.0-67.5	13C-PCB-155	100	71.0	40-145				
PCB-167	50	49.2	30.0-67.5	13C-PCB-167	100	85.6	40-145				
PCB-156	50	49.4	30.0-67.5	13C-PCB-156	100	84.8	40-145				
PCB-157	50	47.8	30.0-67.5	13C-PCB-157	100	84.5	40-145				
PCB-169	50	46.5	30.0-67.5	13C-PCB-169	100	85.8	40-145				
PCB-188	50	50.1	30.0-67.5	13C-PCB-168	100	83.0	40-145				
PCB-189	50	49.7	30.0-67.5	13C-PCB-189	100	80.0	40-145				
PCB-202	50	50.0	30.0-67.5	13C-PCB-202	100	72.2	40-145				
PCB-205	50	50.4	30.0-67.5	13C-PCB-194	100	85.2	40-145				
PCB-208	50	51.9	30.0-67.5	13C-PCB-208	100	78.7	40-145				
PCB-206	50	51.7	30.0-67.5	13C-PCB-206	100	87.1	40-145				
PCB-209	50	51.6	30.0-67.5	13C-PCB-209	100	94.0	40-145				

Analyst: DMS

Date: 2/9/15

Client ID: OPR Filename: 150205E1 S:2 Acq: 5-FEB-15 10:04:19 ConCal: ST150205E1-1
Lab ID: B5A0115-BS1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 1.0000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	6.85e+07	3.00 y	1.19	16:10	1.001	0.996	1.006	46.5671
PCB-2	7.33e+07	3.02 y	1.18	18:32	0.988	0.984	0.994	47.4543
PCB-3	8.62e+07	2.98 y	1.43	18:46	1.001	0.996	1.006	46.3199
PCB-4/10	2.57e+08	1.63 y	1.57	20:07	1.002	0.997	1.007	209.667
PCB-7/9	3.13e+08	1.62 y	1.21	21:54	0.868	0.866	0.874	208.093
PCB-6	1.67e+08	1.63 y	1.30	22:33	0.894	0.890	0.899	102.800
PCB-5/8	3.02e+08	1.64 y	1.15	22:57	0.910	0.907	0.917	211.429
PCB-14	1.60e+08	1.64 y	1.11	24:03	0.953	0.949	0.959	102.009
PCB-11	1.59e+08	1.64 y	1.09	25:14	1.000	0.995	1.005	103.664
PCB-12/13	3.50e+08	1.63 y	1.19	25:38	1.016	1.011	1.021	207.502
PCB-15	1.89e+08	1.62 y	1.28	25:56	1.028	1.023	1.033	104.288
PCB-19	3.87e+07	1.04 y	1.04	24:14	1.001	0.996	1.006	50.2707
PCB-30	6.78e+07	1.05 y	1.71	25:07	1.038	1.032	1.042	53.6611
PCB-18	4.67e+07	1.06 y	0.78	25:52	0.954	0.949	0.959	49.7449
PCB-17	5.48e+07	1.06 y	0.92	26:03	0.960	0.956	0.966	49.4690
PCB-24/27	1.43e+08	1.05 y	1.19	26:37	0.981	0.977	0.987	99.9829
- PCB-16/32	1.12e+08	1.05 y	0.94	27:07	1.000	0.995	1.005	99.7210
- PCB-34	8.24e+07	1.06 y	1.14	27:55	0.960	0.955	0.965	56.2094
PCB-23	9.04e+07	1.07 y	1.28	28:01	0.964	0.959	0.969	54.7929
PCB-29	7.57e+07	1.05 y	1.08	28:15	0.972	0.967	0.977	54.3548
PCB-26	8.87e+07	1.06 y	1.21	28:28	0.979	0.974	0.984	56.9936
PCB-25	9.44e+07	1.06 y	1.26	28:38	0.985	0.979	0.989	58.0366
PCB-31	8.52e+07	1.05 y	1.28	28:59	0.997	0.992	1.002	51.4190
PCB-28	1.31e+08	1.07 y	1.71	29:05	1.000	0.995	1.005	59.5271
PCB-20/21/33	2.46e+08	1.06 y	1.08	29:42	1.022	1.017	1.027	176.066
PCB-22	8.85e+07	1.06 y	1.21	30:09	1.037	1.032	1.042	56.7965
PCB-36	8.22e+07	1.06 y	1.14	30:45	0.933	0.928	0.938	52.8452
PCB-39	7.78e+07	1.07 y	1.12	31:14	0.948	0.943	0.953	51.1539
PCB-38	8.21e+07	1.06 y	1.20	32:00	0.971	0.966	0.976	50.2368
PCB-35	9.48e+07	1.05 y	1.23	32:31	0.987	0.982	0.992	56.4819
PCB-37	9.13e+07	1.05 y	1.23	32:58	1.000	0.995	1.005	54.4531
PCB-54	5.78e+07	0.78 y	1.10	27:58	1.001	0.996	1.006	51.0360
PCB-50	4.92e+07	0.76 y	0.88	29:09	1.043	1.037	1.047	54.4710
PCB-53	4.82e+07	0.78 y	1.06	29:47	0.946	0.942	0.952	49.7634
PCB-51	4.58e+07	0.77 y	0.99	30:08	0.957	0.952	0.962	50.7674
PCB-45	4.03e+07	0.77 y	0.86	30:34	0.971	0.966	0.976	51.2716
PCB-46	3.93e+07	0.76 y	0.85	31:02	0.986	0.981	0.991	51.1110

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-52/69	1.24e+08	0.76 y	1.28	31:31	1.002	0.996	1.006	106.209
PCB-73	6.53e+07	0.77 y	1.35	31:38	1.005	1.000	1.010	53.0411
PCB-43/49	9.41e+07	0.76 y	0.99	31:48	1.010	1.005	1.015	103.873
PCB-47	5.52e+07	0.77 y	1.06	32:00	1.001	0.996	1.006	53.4013
PCB-48/75	1.24e+08	0.77 y	1.23	32:07	1.004	0.999	1.009	103.665
PCB-65	6.45e+07	0.86 y	1.22	32:24	1.013	1.008	1.018	53.8959
PCB-62	6.31e+07	0.68 y	1.22	32:31	1.016	1.011	1.021	52.8859
PCB-44	4.51e+07	0.75 y	0.86	32:48	1.025	1.021	1.031	53.6840
PCB-42/59	1.19e+08	0.77 y	1.14	33:02	1.033	1.028	1.038	106.899
PCB-41/64/71/72	2.51e+08	0.77 y	1.21	33:37	1.051	1.046	1.056	213.213
PCB-68	7.23e+07	0.77 y	1.35	33:53	1.059	1.054	1.064	54.9449
PCB-40	3.74e+07	0.76 y	0.70	34:05	1.066	1.061	1.071	54.5783
PCB-57	6.63e+07	0.77 y	0.98	34:27	0.970	0.965	0.975	53.6424
PCB-67	7.66e+07	0.76 y	1.11	34:46	0.979	0.974	0.984	54.8748
PCB-58	6.07e+07	0.78 y	0.93	34:53	0.982	0.977	0.987	51.8953
PCB-63	6.25e+07	0.77 y	0.95	35:02	0.987	0.982	0.992	52.0513
PCB-74	8.38e+07	0.77 y	1.24	35:19	0.995	0.990	1.000	53.4213
PCB-61/70	1.27e+08	0.77 y	0.95	35:29	0.999	0.995	1.005	105.815
PCB-76/66	1.38e+08	0.78 y	1.04	35:43	1.006	1.001	1.011	104.452
PCB-80	8.42e+07	0.77 y	1.19	35:57	1.001	0.996	1.006	53.0146
PCB-55	7.37e+07	0.77 y	1.04	36:16	1.009	1.005	1.015	53.1080
PCB-56/60	1.43e+08	0.77 y	1.01	36:46	1.023	1.019	1.029	106.277
PCB-79	7.62e+07	0.79 y	1.08	37:50	1.053	1.048	1.058	53.0118
PCB-78	7.86e+07	0.78 y	1.27	38:32	0.987	0.982	0.992	50.6056
PCB-81	8.16e+07	0.78 y	1.33	39:03	1.000	0.995	1.005	50.1524
PCB-77	7.09e+07	0.79 y	1.10	39:39	1.000	0.995	1.005	51.6360
PCB-104	4.69e+07	1.61 y	1.18	32:39	1.000	0.996	1.006	53.5621
PCB-96	4.41e+07	1.60 y	1.14	33:55	1.039	1.034	1.044	52.3773
PCB-103	3.87e+07	1.60 y	0.96	34:27	1.055	1.050	1.060	54.7435
PCB-100	3.91e+07	1.62 y	0.94	34:49	1.067	1.061	1.071	56.5150
PCB-94	3.07e+07	1.60 y	1.06	35:17	0.985	0.980	0.990	51.5411
PCB-95/98/102	1.13e+08	1.61 y	1.22	35:46	0.999	0.995	1.005	163.812
PCB-93	2.41e+07	1.60 y	0.84	35:54	1.003	0.997	1.007	50.6975
PCB-88/91	7.17e+07	1.60 y	1.12	36:11	1.011	1.005	1.015	113.738
PCB-121	4.93e+07	1.60 y	1.62	36:18	1.014	1.009	1.019	54.0920
PCB-84/92	6.89e+07	1.59 y	1.05	37:07	0.990	0.985	0.995	106.797
PCB-89	3.70e+07	1.60 y	1.13	37:19	0.995	0.991	1.001	53.0705

RL: MONO, TRI - DECA: —

RL: DI : —

Integrations by Analyst: DMS

Date: 2/9/15

Reviewed by Analyst: [signature]

Date: 2/10/15

Client ID: OPR Filename: 150205E1 S:2 Acq: 5-FEB-15 10:04:19 ConCal: ST150205E1-1
Lab ID: B5A0115-BS1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-90/101	7.32e+07	1.59	y	1.10	37:30	1.000	0.995	1.005	107.722
	PCB-113	4.92e+07	1.58	y	1.41	37:45	1.007	1.002	1.012	56.5325
	PCB-99	4.31e+07	1.64	y	1.34	37:50	1.009	1.004	1.014	52.2953
	PCB-119	4.57e+07	1.59	y	1.53	38:18	0.987	0.982	0.992	52.9684
	PCB-108/112	7.84e+07	1.66	y	1.28	38:27	0.991	0.986	0.996	108.813
	PCB-83	4.49e+07	1.56	y	1.52	38:37	0.995	0.990	1.000	52.5341
	PCB-97	3.54e+07	1.58	y	1.18	38:48	1.000	0.995	1.005	53.1537
	PCB-86	2.65e+07	1.54	y	0.84	38:57	1.004	0.999	1.009	55.9104
	B-87/117/125	1.38e+08	1.62	y	1.55	39:05	1.007	1.002	1.012	158.598
	PCB-111/115	9.56e+07	1.62	y	1.63	39:14	1.011	1.006	1.016	104.077
	PCB-85/116	8.02e+07	1.59	y	1.30	39:22	1.015	1.010	1.020	109.486
	PCB-120	5.14e+07	1.60	y	1.68	39:37	1.021	1.016	1.026	54.5160
	PCB-110	4.55e+07	1.60	y	1.56	39:45	1.025	1.020	1.030	51.9279
	PCB-82	3.02e+07	1.56	y	0.76	40:23	0.976	0.971	0.981	53.6983
	PCB-124	5.87e+07	1.59	y	1.47	41:04	0.993	0.988	0.998	53.8240
	PCB-107/109	1.00e+08	1.59	y	1.32	41:13	0.996	0.991	1.001	101.949
	PCB-123	4.63e+07	1.60	y	1.17	41:23	1.001	0.996	1.006	53.4020
-	PCB-106/118	9.65e+07	1.59	y	1.17	41:35	1.001	0.996	1.006	105.480
-	PCB-114	6.84e+07	1.63	y	1.30	42:13	1.000	0.995	1.005	52.4976
	PCB-122	6.22e+07	1.60	y	1.12	42:21	1.003	0.999	1.009	55.1805
	PCB-105	6.67e+07	1.61	y	1.30	43:05	1.000	0.995	1.005	53.7379
	PCB-127	7.47e+07	1.64	y	1.33	43:25	1.000	0.996	1.006	53.4237
	PCB-126	6.11e+07	1.65	y	1.18	45:19	1.000	0.995	1.005	55.3035
	PCB-155	3.24e+07	1.28	y	1.11	37:03	1.001	0.966	1.006	52.7212
	PCB-150	2.97e+07	1.30	y	1.00	38:19	1.035	1.030	1.040	53.8874
	PCB-152	3.18e+07	1.29	y	1.12	38:48	1.048	1.043	1.053	51.6206
	PCB-145	3.43e+07	1.29	y	1.20	39:14	1.060	1.055	1.065	51.7576
	PCB-136	3.59e+07	1.40	y	1.18	39:34	1.069	1.064	1.074	55.3060
	PCB-148	2.09e+07	1.09	y	0.74	39:41	1.072	1.066	1.076	50.8479
	PCB-154	2.60e+07	1.29	y	0.86	40:10	1.085	1.080	1.090	55.0557
	PCB-151	2.27e+07	1.33	y	0.75	40:48	1.102	1.097	1.107	55.1407
	PCB-135	2.43e+07	1.28	y	0.79	41:01	1.108	1.103	1.113	55.4969
	PCB-144	2.27e+07	1.27	y	0.76	41:08	1.111	1.105	1.117	54.0907
	PCB-147	2.53e+07	1.29	y	0.82	41:16	1.114	1.109	1.121	55.9409
	PCB-139/149	4.61e+07	1.28	y	0.76	41:32	1.122	1.116	1.128	109.753
-	PCB-140	2.22e+07	1.30	y	0.72	41:43	1.127	1.121	1.133	55.6800
-	PCB-134/143	7.87e+07	1.25	y	0.92	42:08	0.975	0.970	0.980	99.5156

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
PCB-133/142	7.10e+07	1.27	y	0.82	42:27	0.982	0.977	0.987	100.464
PCB-131	3.87e+07	1.21	y	0.91	42:36	0.986	0.981	0.991	49.4057
PCB-146/165	1.05e+08	1.24	y	1.25	42:49	0.991	0.986	0.996	97.2969
PCB-132/161	9.32e+07	1.24	y	1.10	43:04	0.996	0.992	1.002	97.7245
PCB-153	5.12e+07	1.25	y	1.25	43:14	1.000	0.995	1.005	47.5274
PCB-168	6.10e+07	1.23	y	1.45	43:27	1.005	1.001	1.011	48.7538
PCB-141	4.09e+07	1.23	y	1.09	43:58	1.000	0.995	1.005	47.8652
PCB-137	4.43e+07	1.24	y	1.06	44:21	1.009	1.004	1.014	52.9537
PCB-130	3.44e+07	1.20	y	0.96	44:28	1.011	1.006	1.016	45.2821
PCB-138/163/164	1.52e+08	1.22	y	1.29	44:50	1.001	0.996	1.006	143.435
PCB-158/160	1.08e+08	1.23	y	1.34	45:05	1.006	1.001	1.011	98.3272
PCB-129	3.46e+07	1.24	y	0.85	45:19	1.012	1.007	1.017	49.6414
PCB-166	5.18e+07	1.24	y	1.19	45:47	0.993	0.988	0.998	47.5504
PCB-159	4.98e+07	1.24	y	1.11	46:07	1.001	0.996	1.006	48.6833
PCB-128/162	9.06e+07	1.23	y	1.05	46:24	1.007	1.002	1.012	94.1005
PCB-167	5.90e+07	1.22	y	1.20	46:47	1.000	0.995	1.005	49.1744
PCB-156	5.33e+07	1.23	y	1.14	48:06	1.000	0.996	1.006	49.4288
PCB-157	5.51e+07	1.23	y	1.16	48:22	1.000	0.995	1.005	47.7728
PCB-169	4.96e+07	1.21	y	1.12	50:27	1.000	0.995	1.005	46.4984
PCB-188	5.22e+07	1.06	y	1.58	42:52	1.000	0.996	1.006	50.1288
PCB-184	5.37e+07	1.05	y	1.63	43:19	1.011	1.006	1.016	49.9530
PCB-179	4.17e+07	1.06	y	1.30	44:06	1.029	1.024	1.034	48.5649
PCB-176	4.71e+07	1.05	y	1.48	44:34	1.040	1.035	1.045	48.4312
PCB-186	4.75e+07	1.07	y	1.45	45:11	1.054	1.050	1.060	49.6811
PCB-178	3.26e+07	1.06	y	1.03	45:40	1.066	1.061	1.071	47.8227
PCB-175	3.30e+07	1.06	y	1.01	46:01	1.074	1.069	1.079	49.5337
PCB-182/187	7.96e+07	1.05	y	1.25	46:11	1.078	1.073	1.083	96.5650
PCB-183	3.73e+07	1.06	y	1.21	46:30	1.085	1.081	1.091	46.9001
PCB-185	4.33e+07	1.06	y	1.80	47:10	0.956	0.951	0.961	51.2494
PCB-174	3.57e+07	1.06	y	1.38	47:32	0.963	0.958	0.968	55.1966
PCB-181	3.31e+07	1.08	y	1.38	47:39	0.965	0.960	0.970	51.1334
PCB-177	3.07e+07	1.06	y	1.26	47:48	0.968	0.963	0.973	52.1345
PCB-171	3.80e+07	1.04	y	1.58	48:06	0.974	0.970	0.980	51.1744
PCB-173	2.78e+07	1.04	y	1.11	48:32	0.983	0.978	0.988	53.3736
PCB-172	4.03e+07	1.06	y	1.63	48:59	0.992	0.987	0.997	52.5082
PCB-192	4.30e+07	1.06	y	1.74	49:10	0.996	0.991	1.001	52.6390
PCB-180	3.23e+07	1.05	y	1.34	49:23	1.000	0.995	1.005	51.1998

Integrations by Analyst: DMS

RL: MONO, TRI - DECA: —

Date: 2/9/15

Client ID: OPR Filename: 150205E1 S:2 Acq: 5-FEB-15 10:04:19 ConCal: ST150205E1-1

Lab ID: B5A0115-BS1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
	PCB-193	4.01e+07	1.04 y	1.72	49:35	1.004	0.999	1.009	49.8218
	PCB-191	3.99e+07	1.06 y	1.69	49:49	1.009	1.004	1.014	50.1619
	PCB-170	3.08e+07	1.04 y	1.60	50:48	1.000	0.995	1.005	51.3352
	PCB-190	4.17e+07	1.06 y	2.21	50:58	1.004	0.998	1.008	50.2501
	PCB-189	3.81e+07	1.05 y	1.55	52:16	1.000	0.995	1.005	49.6989
	PCB-202	2.83e+07	0.91 y	1.08	48:18	1.000	0.995	1.005	49.9988
	PCB-201	3.07e+07	0.91 y	1.15	48:47	1.010	1.005	1.015	51.1300
	PCB-204	3.02e+07	0.91 y	1.14	48:57	1.014	1.008	1.018	50.7295
	PCB-197	2.85e+07	0.91 y	1.07	49:15	1.020	1.015	1.025	50.8007
	PCB-200	2.78e+07	0.90 y	1.06	50:06	1.037	1.032	1.044	49.9676
	PCB-198	2.09e+07	0.89 y	0.76	51:22	1.064	1.059	1.069	52.9933
	PCB-199	2.11e+07	0.92 y	0.80	51:29	1.066	1.061	1.071	50.5356
-	PCB-196/203	4.34e+07	0.93 y	0.80	51:44	1.072	1.066	1.076	103.598
-	PCB-195	3.64e+07	0.91 y	1.23	52:53	0.984	0.979	0.989	49.6990
	PCB-194	3.61e+07	0.90 y	1.21	53:46	1.000	0.995	1.005	49.7826
	PCB-205	4.65e+07	0.93 y	1.54	54:03	1.006	1.001	1.011	50.4352
	PCB-208	3.61e+07	1.35 y	0.93	53:01	1.000	0.995	1.005	51.9116
	PCB-207	4.29e+07	1.35 y	1.08	53:20	1.006	1.001	1.011	53.0005
	PCB-206	2.64e+07	1.34 y	1.02	55:27	1.000	0.995	1.005	51.6631
	PCB-209	3.05e+07	1.20 y	1.17	56:45	1.000	0.995	1.005	51.6430

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	2.28e+08	3.00 y	16:10	1.27	140.341	
Total Di-PCB	1.90e+09	1.63 y	20:07	1.21	1250.86	
Total Tri-PCB	4.63e+08	1.04 y	24:14	1.10	402.850	
Total Tri-PCB	1.43e+09	1.06 y	27:55	1.21	903.791	Sum:1306.64
Total Tetra-PCB	2.64e+09	0.78 y	27:58	1.09	2231.19	
Total Penta-PCB	1.71e+09	1.61 y	32:39	1.18	2202.01	
Total Penta-PCB	3.57e+08	1.63 y	42:13	1.25	289.188	Sum:2491.20
Total Hexa-PCB	3.74e+08	1.28 y	37:03	0.90	757.299	
Total Hexa-PCB	1.34e+09	1.25 y	42:08	1.11	1382.79	Sum:2140.08
Total Hepta-PCB	9.49e+08	1.06 y	42:52	1.42	1221.57	
Total Octa-PCB	2.31e+08	0.91 y	48:18	0.96	459.763	
Total Octa-PCB	1.23e+08	0.91 y	52:53	1.33	154.685	Sum:614.448
Total Nona-PCB	1.07e+08	1.35 y	53:01	1.01	158.425	
Total Deca-PCB	3.05e+07	1.20 y	56:45	1.17	51.6430	

Total PCB Conc:11508.6990880

RL: MONO, TRI - DECA: ———

Integrations by Analyst: DMS

Date: 2/9/15

Client ID: OPR Filename: 150205E1 S:2 Acq: 5-FEB-15 10:04:19 ConCal: ST150205E1-1
Lab ID: B5A0115-BS1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol:1.0000 EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.23e+08	3.28	y	0.87	16:09	0.623	0.629	0.635	70.1	70.1
13C-PCB-3	1.30e+08	3.41	y	0.91	18:45	0.723	0.725	0.733	70.9	70.9
13C-PCB-4	7.81e+07	1.57	y	0.59	20:04	0.774	0.775	0.783	65.9	65.9
13C-PCB-9	1.24e+08	1.60	y	0.90	21:51	0.843	0.842	0.850	68.7	68.7
13C-PCB-11	1.41e+08	1.56	y	0.94	25:13	0.973	0.968	0.978	74.7	74.7
13C-PCB-19	7.38e+07	1.10	y	0.53	24:13	0.934	0.930	0.940	68.8	68.8
13C-PCB-28	1.29e+08	1.05	y	0.93	29:04	1.003	0.999	1.009	73.3	73.3
13C-PCB-32	1.20e+08	1.08	y	0.80	27:07	1.046	1.040	1.050	74.7	74.7
13C-PCB-37	1.36e+08	1.07	y	0.84	32:57	1.137	1.131	1.143	86.0	86.0
13C-PCB-47	9.76e+07	0.78	y	0.81	31:59	0.870	0.866	0.874	76.9	76.9
13C-PCB-52	9.11e+07	0.81	y	0.77	31:29	0.856	0.853	0.861	75.5	75.5
13C-PCB-54	1.03e+08	0.81	y	0.97	27:57	0.761	0.758	0.766	67.6	67.6
13C-PCB-70	1.26e+08	0.81	y	1.00	35:31	0.966	0.961	0.971	80.8	80.8
13C-PCB-77	1.25e+08	0.81	y	0.94	39:38	1.078	1.073	1.083	84.6	84.6
13C-PCB-80	1.33e+08	0.79	y	1.03	35:56	0.978	0.972	0.982	82.5	82.5
13C-PCB-81	1.22e+08	0.80	y	0.92	39:02	1.062	1.057	1.067	84.8	84.8
13C-PCB-95	5.64e+07	1.58	y	0.74	35:48	0.913	0.908	0.918	82.4	82.4
13C-PCB-97	5.63e+07	1.63	y	0.70	38:48	0.989	0.984	0.994	86.3	86.3
13C-PCB-101	6.17e+07	1.62	y	0.78	37:30	0.956	0.951	0.961	85.1	85.1
13C-PCB-104	7.39e+07	1.62	y	1.00	32:39	0.832	0.828	0.836	79.7	79.7
13C-PCB-105	9.57e+07	1.56	y	1.37	43:04	0.929	0.924	0.934	81.1	81.1
13C-PCB-114	1.01e+08	1.59	y	1.36	42:13	0.910	0.905	0.915	85.4	85.4
13C-PCB-118	7.80e+07	1.63	y	0.96	41:33	1.059	1.054	1.064	87.9	87.9
13C-PCB-123	7.42e+07	1.58	y	0.89	41:22	1.055	1.050	1.060	89.7	89.7
13C-PCB-126	9.35e+07	1.60	y	1.31	45:18	0.977	0.972	0.982	82.8	82.8
13C-PCB-127	1.05e+08	1.59	y	1.47	43:24	0.936	0.931	0.941	82.4	82.4
13C-PCB-138	8.18e+07	1.27	y	1.10	44:48	0.966	0.961	0.971	86.1	86.1
13C-PCB-141	7.88e+07	1.27	y	1.07	43:58	0.948	0.943	0.953	84.8	84.8
13C-PCB-153	8.63e+07	1.29	y	1.15	43:13	0.932	0.927	0.937	87.1	87.1
13C-PCB-155	5.51e+07	1.30	y	0.84	37:01	0.944	0.939	0.949	71.0	71.0
13C-PCB-156	9.50e+07	1.30	y	1.30	48:05	1.037	1.032	1.042	84.8	84.8
13C-PCB-157	9.91e+07	1.29	y	1.36	48:21	1.043	1.038	1.048	84.5	84.5
13C-PCB-159	9.20e+07	1.28	y	1.25	46:05	0.994	0.989	0.999	85.3	85.3
13C-PCB-167	1.00e+08	1.28	y	1.35	46:47	1.009	1.004	1.014	85.6	85.6
13C-PCB-169	9.54e+07	1.29	y	1.29	50:26	1.088	1.083	1.093	85.8	85.8
13C-PCB-170	3.76e+07	0.46	y	0.54	50:47	1.096	1.089	1.101	80.1	80.1
13C-PCB-180	4.69e+07	0.47	y	0.68	49:22	1.065	1.060	1.070	79.4	79.4
13C-PCB-188	6.58e+07	0.46	y	0.92	42:51	0.924	0.919	0.929	83.0	83.0
13C-PCB-189	4.95e+07	0.47	y	0.72	52:14	1.127	1.120	1.132	80.0	80.0
13C-PCB-194	5.98e+07	0.93	y	0.80	53:45	0.995	0.990	1.000	85.2	85.2
13C-PCB-202	5.23e+07	0.94	y	0.84	48:17	1.041	1.036	1.046	72.2	72.2
13C-PCB-206	4.98e+07	0.81	y	0.65	55:25	1.026	1.021	1.031	87.1	87.1
13C-PCB-208	7.48e+07	0.78	y	1.08	53:00	0.981	0.976	0.986	78.7	78.7
13C-PCB-209	5.05e+07	1.21	y	0.61	56:45	1.050	1.045	1.055	94.0	94.0

CRS vs. RS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.39e+08	0.80	y	1.02	37:49	1.029	1.023	1.034	87.8	87.8
13C-PCB-178	4.35e+07	0.45	y	0.61	45:39	0.985	0.979	0.990	82.0	82.0

PS vs. IS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.39e+08	0.80	y	1.10	37:49	0.969	0.964	0.974	103	103
13C-PCB-178	4.35e+07	0.45	y	0.90	45:39	0.925	0.920	0.930	103	103

* = OK within 1668 method limits.

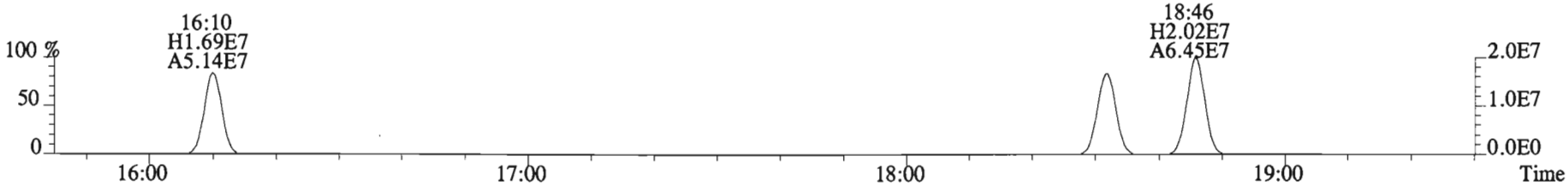
RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	2.02e+08	1.59	y	1.00	25:56	100
13C-PCB-31	1.89e+08	1.06	y	1.00	28:58	100
13C-PCB-60	1.56e+08	0.81	y	1.00	36:45	100
13C-PCB-111	9.25e+07	1.62	y	1.00	39:13	100
13C-PCB-128	8.64e+07	1.30	y	1.00	46:22	100
13C-PCB-205	8.80e+07	0.92	y	1.00	54:02	100

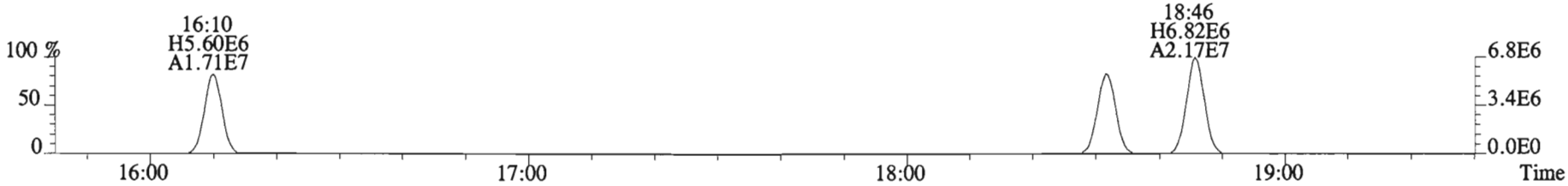
Analyst: DMS

Date: 2/9/15

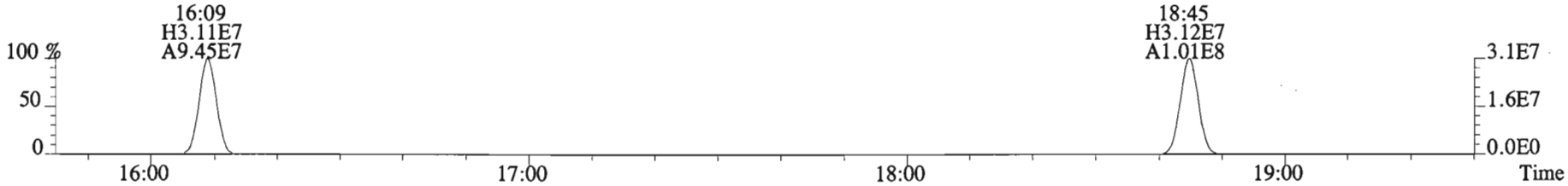
File:150205E1 #1-728 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
188.0393 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8604.0,0.00%,F,F)



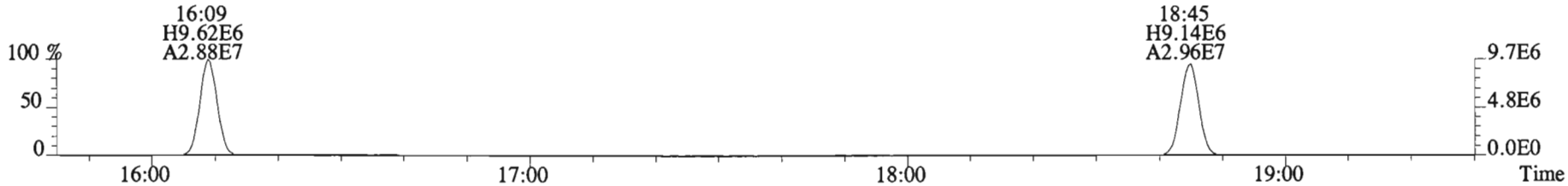
190.0363 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5396.0,0.00%,F,F)



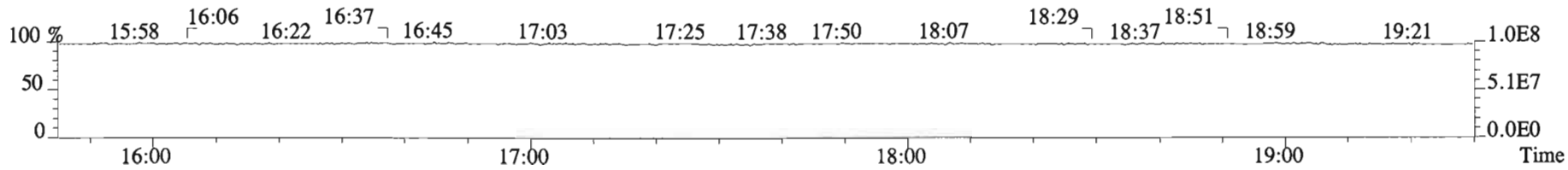
200.0795 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7228.0,0.00%,F,F)



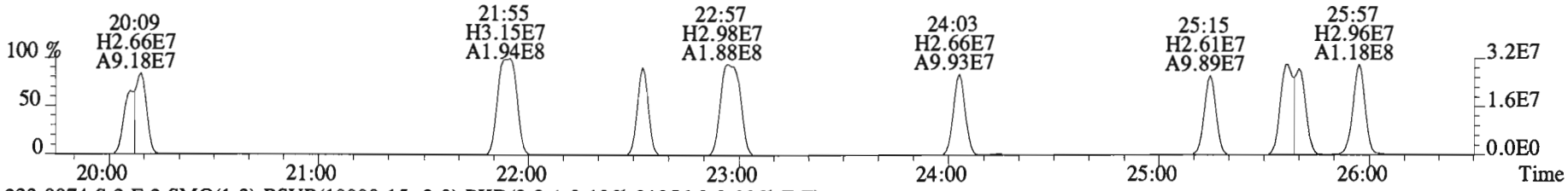
202.0766 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,46672.0,0.00%,F,F)



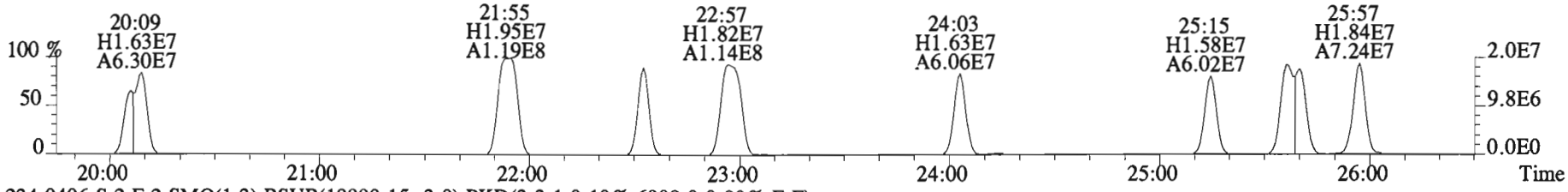
180.9880 S:2



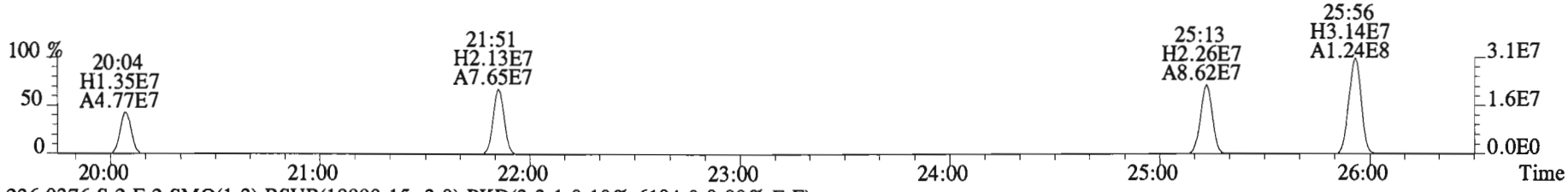
File:150205E1 #1-757 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8148.0,0.00%,F,F)



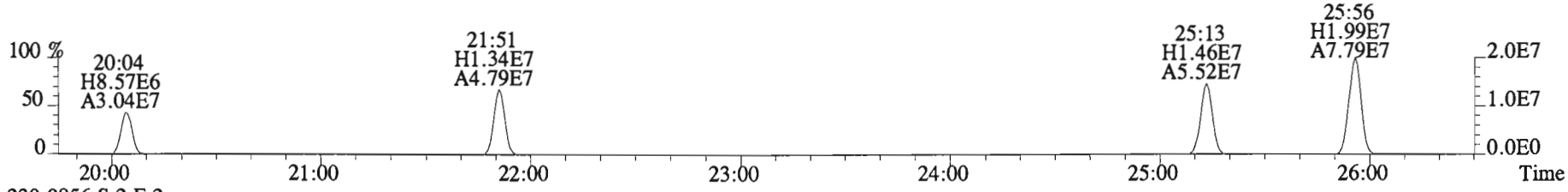
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,31256.0,0.00%,F,F)



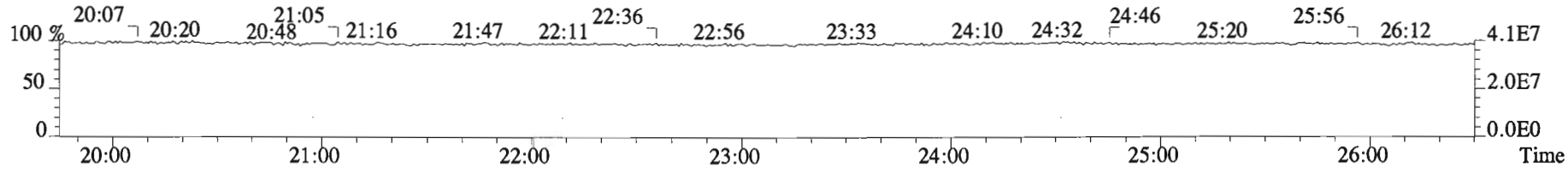
234.0406 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6008.0,0.00%,F,F)



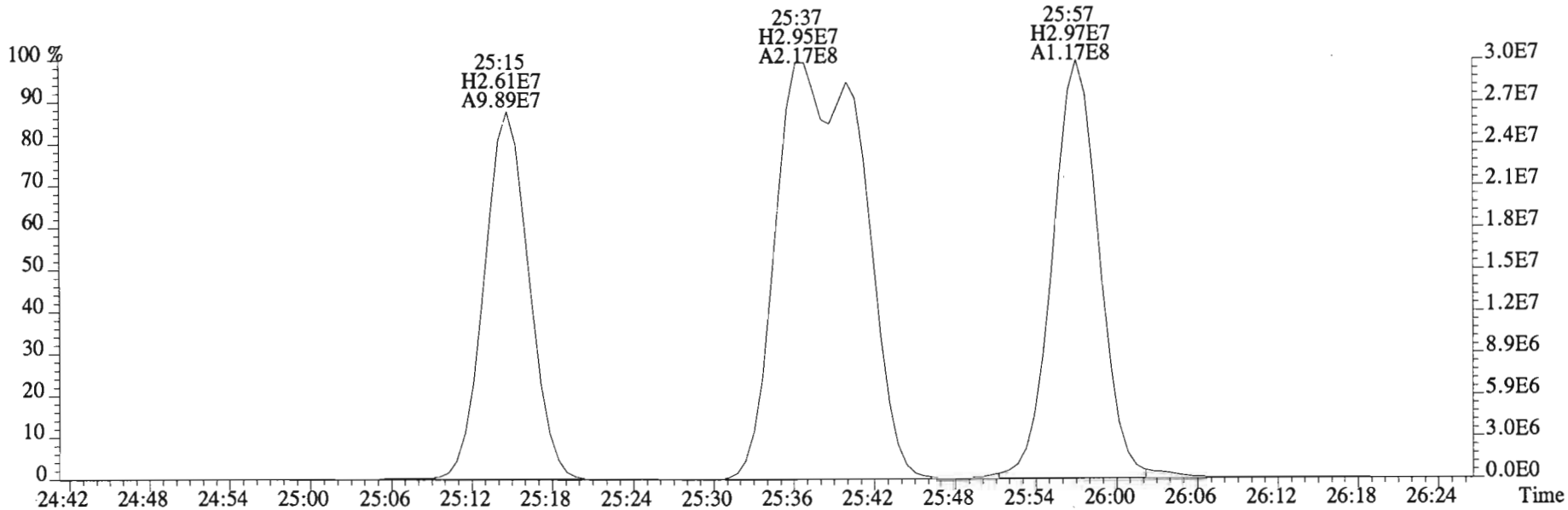
236.0376 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6104.0,0.00%,F,F)



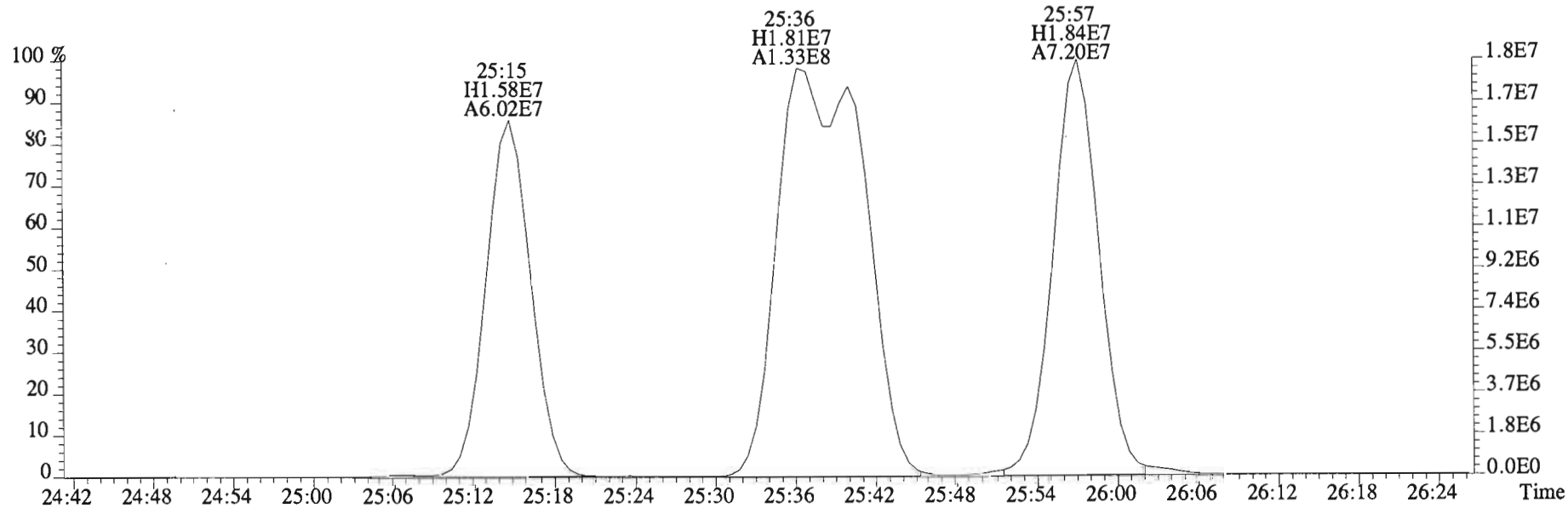
230.9856 S:2 F:2



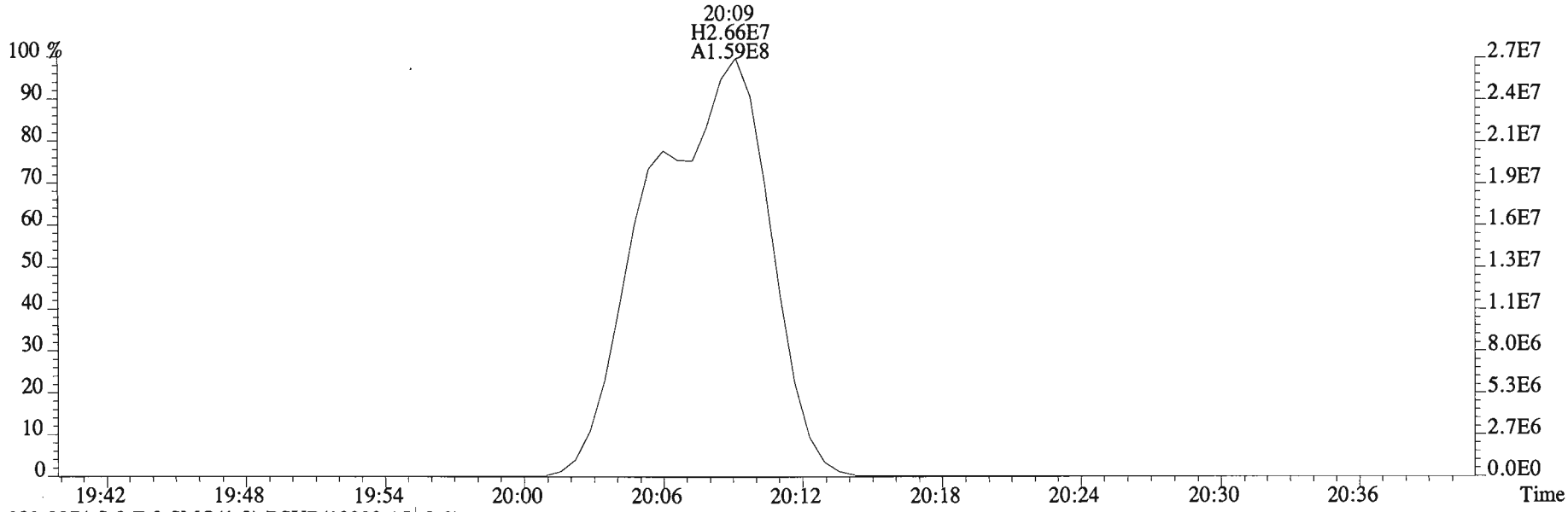
File:150205E1 #1-757 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8148.0,0.00%,F,F)



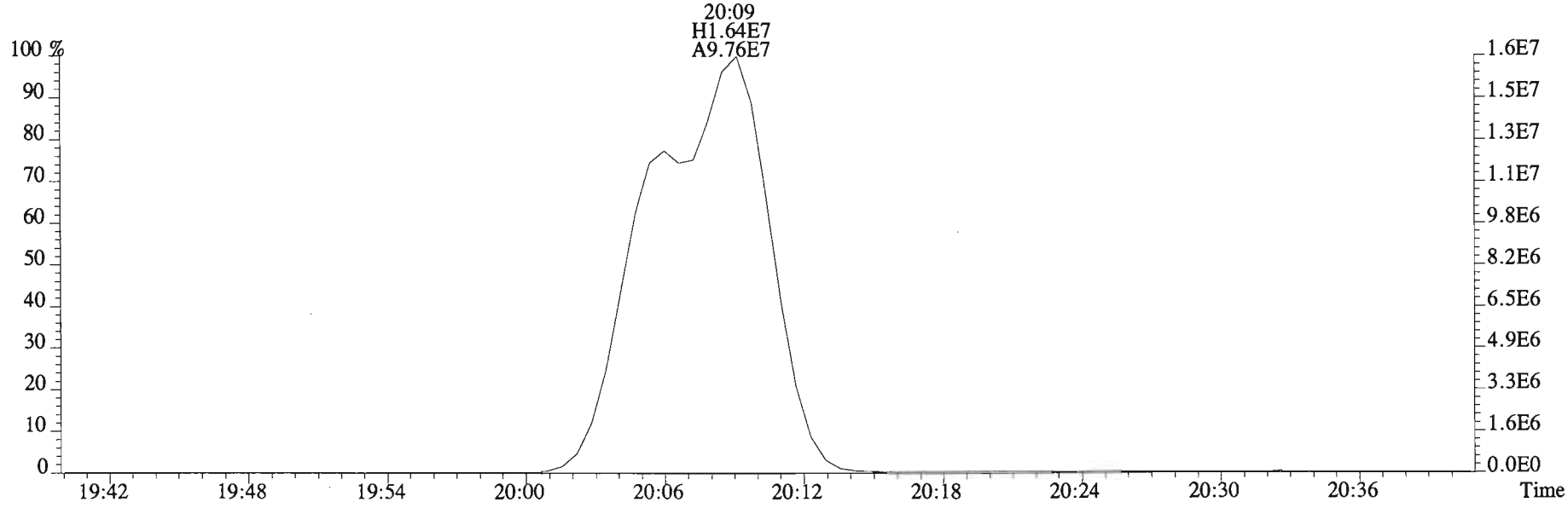
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,31256.0,0.00%,F,F)



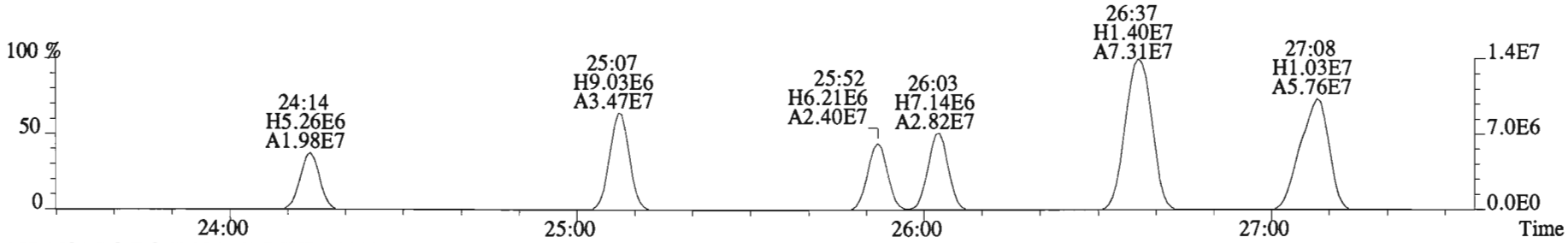
File:150205E1 #1-757 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0)



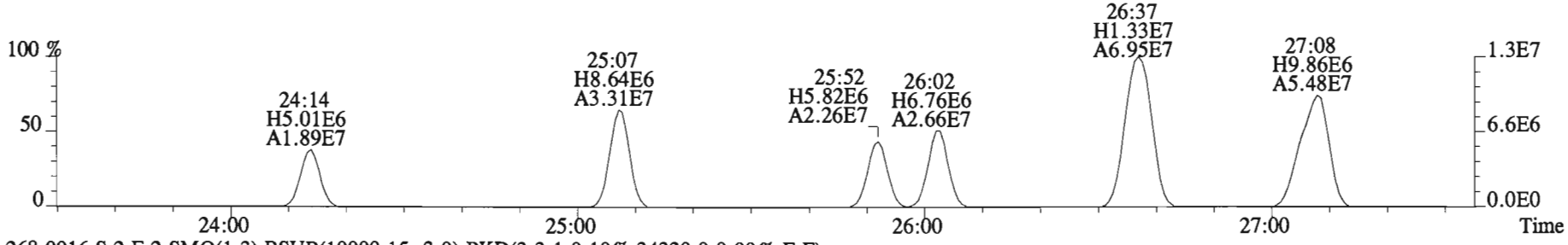
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0)



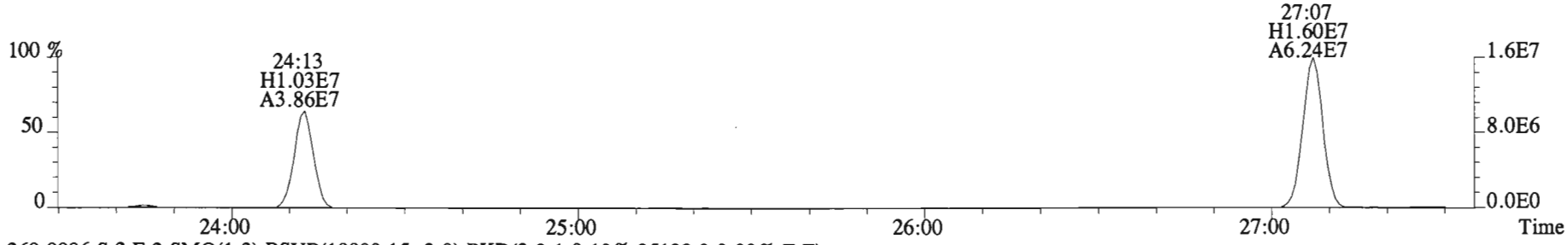
File:150205E1 #1-757 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
255.9613 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3236.0,0.00%,F,F)



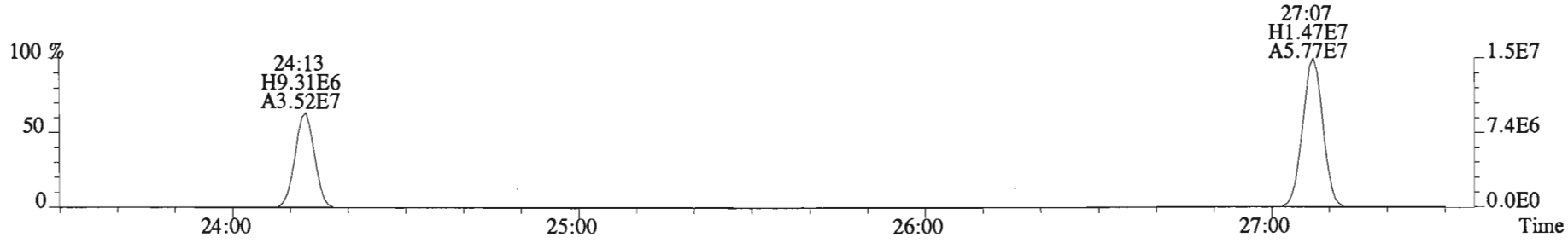
257.9584 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2176.0,0.00%,F,F)



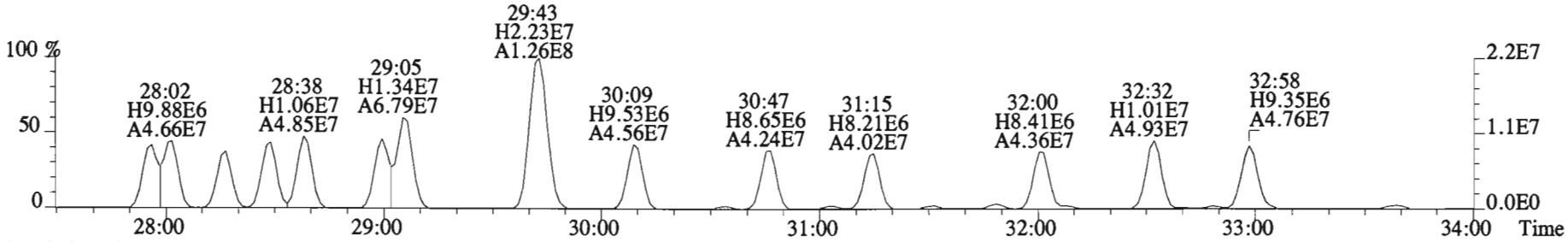
268.0016 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,34320.0,0.00%,F,F)



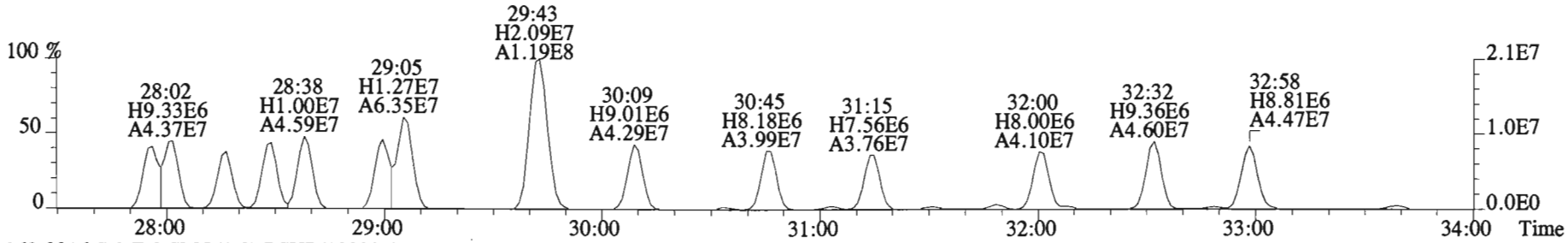
269.9986 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25128.0,0.00%,F,F)



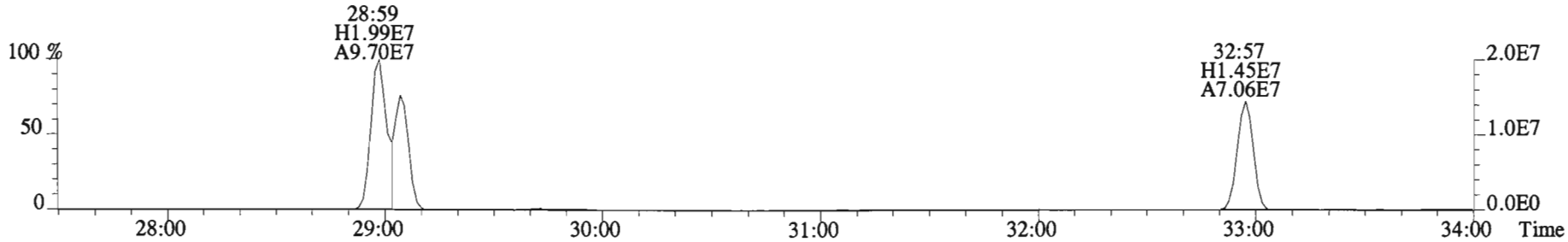
File:150205E1 #1-758 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19996.0,0.00%,F,F)



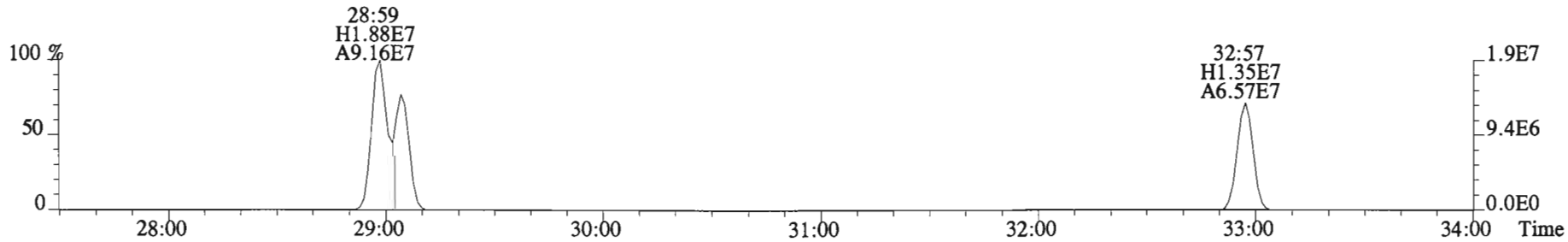
257.9584 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19016.0,0.00%,F,F)



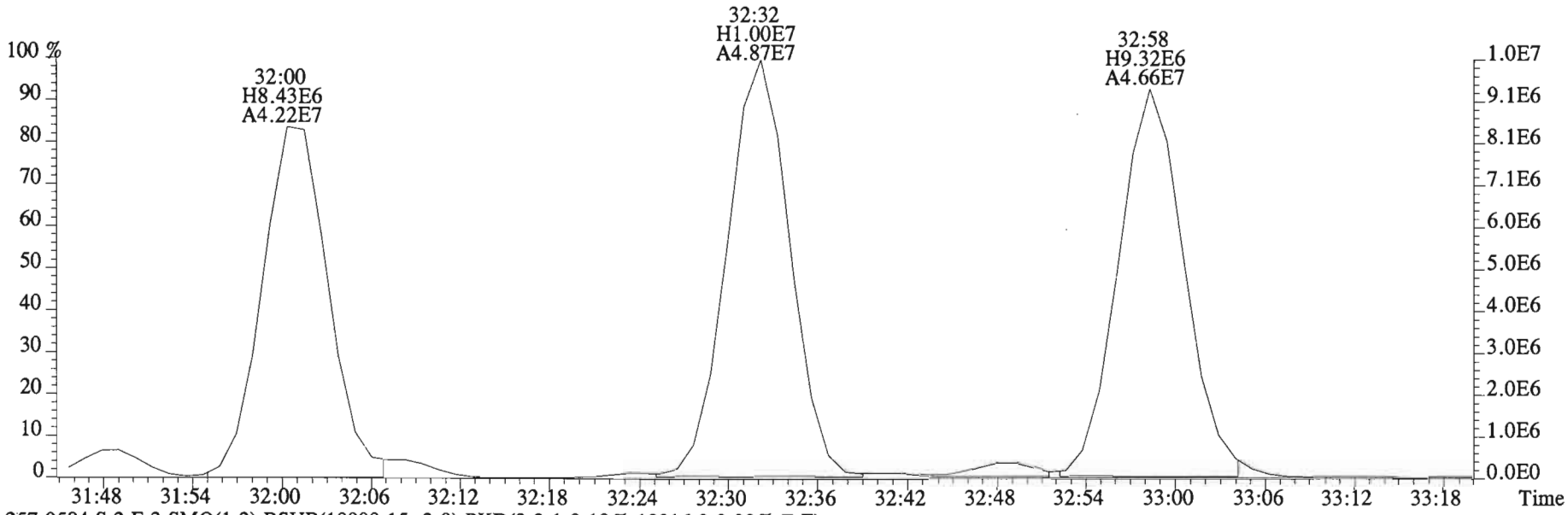
268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,43852.0,0.00%,F,F)



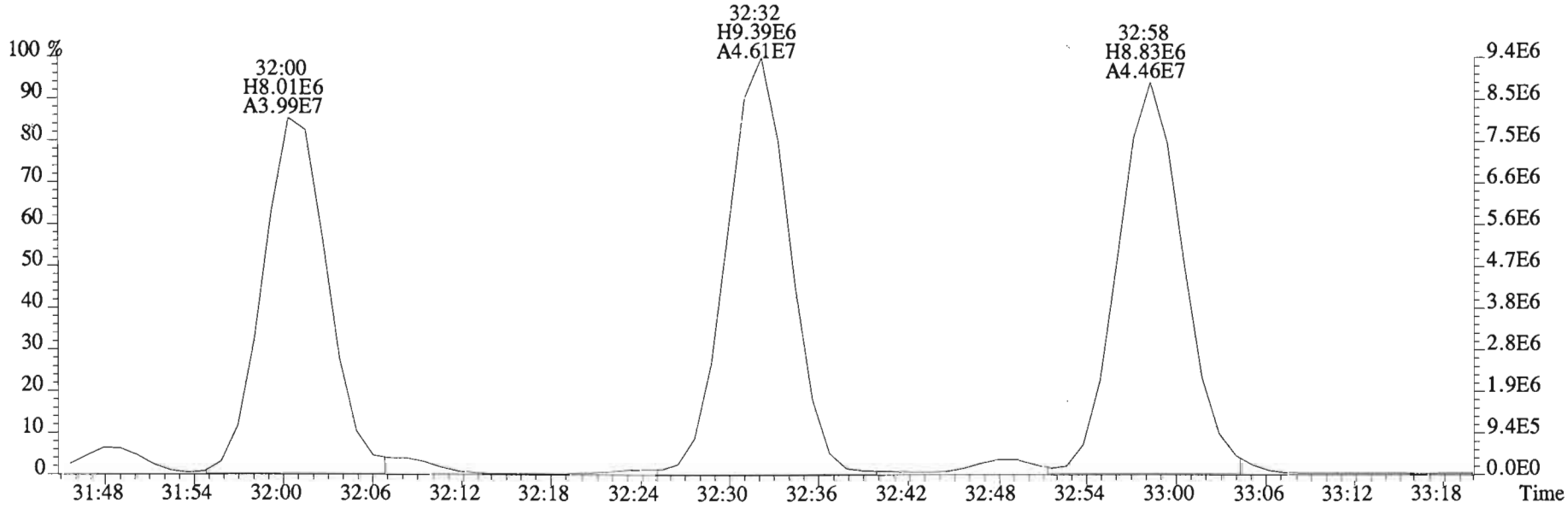
269.9986 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26032.0,0.00%,F,F)



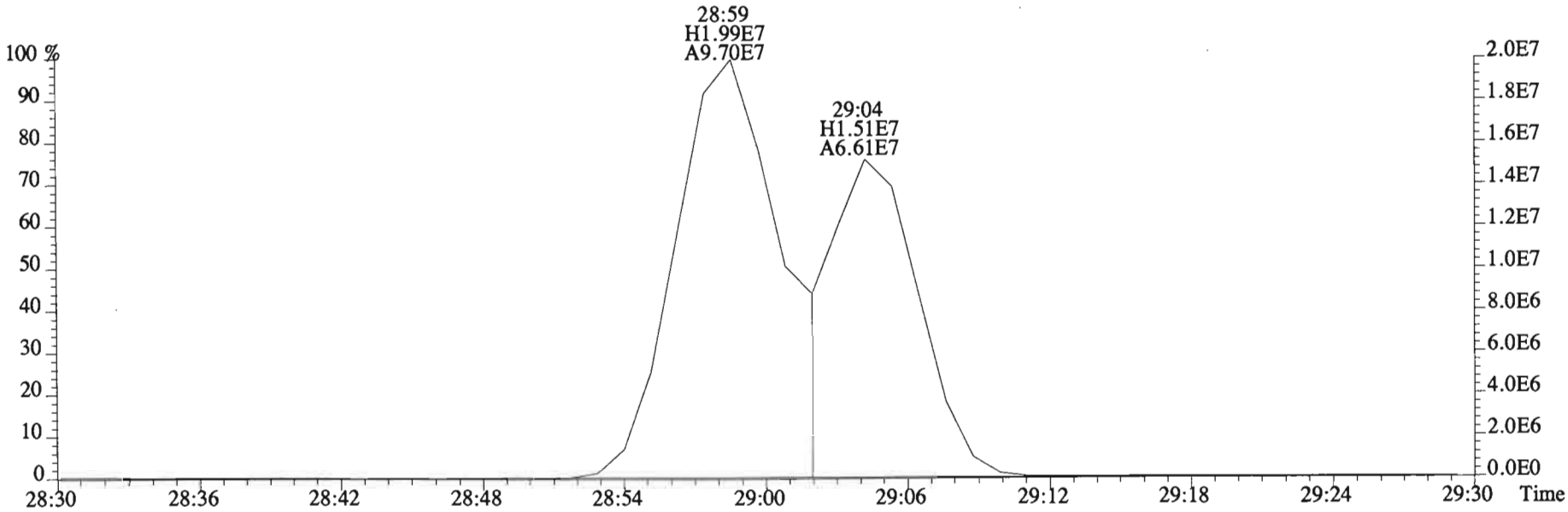
File:150205E1 #1-758 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19996.0,0.00%,F,F)



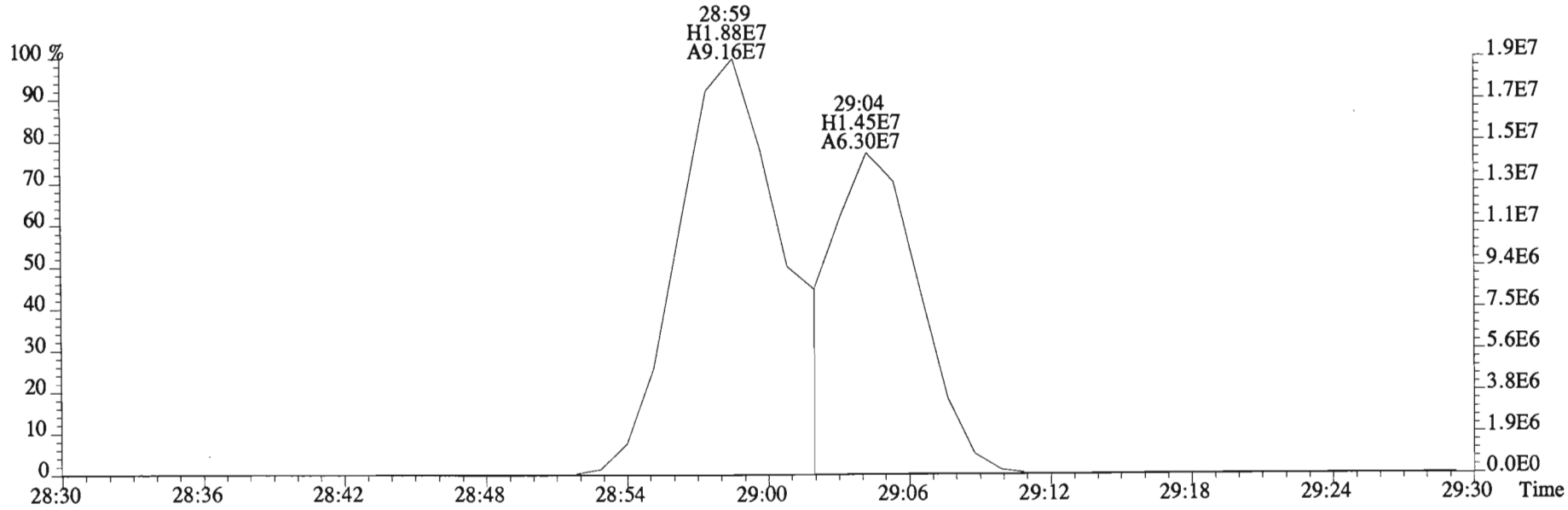
257.9584 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19016.0,0.00%,F,F)



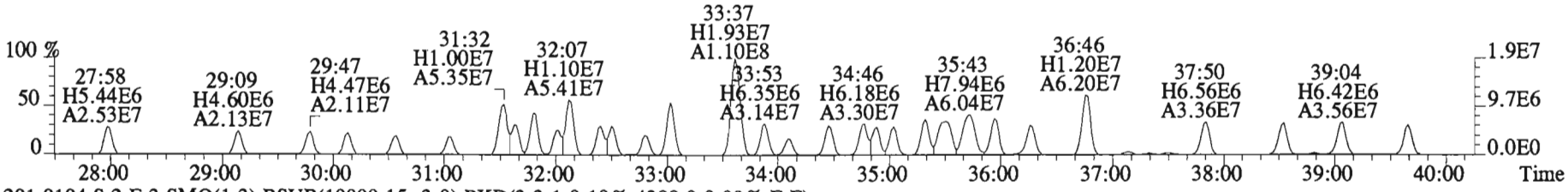
File:150205E1 #1-758 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,43852.0,0.00%,F,F)



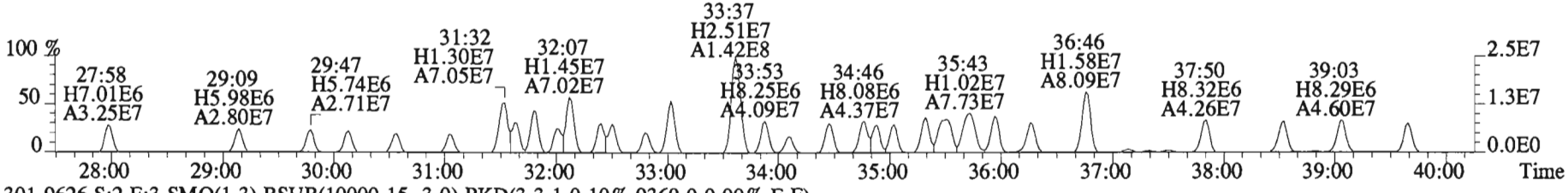
269.9986 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26032.0,0.00%,F,F)



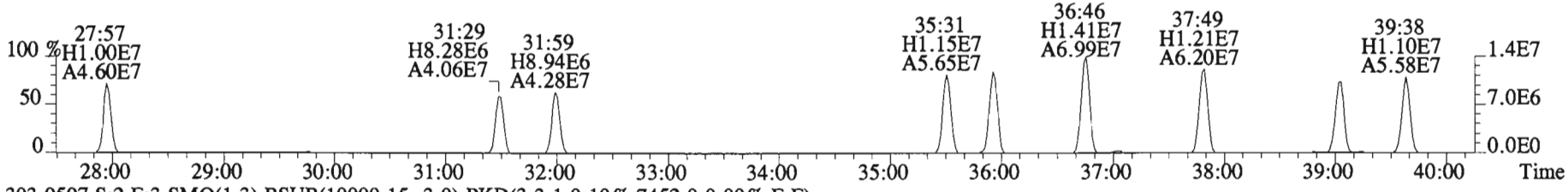
File:150205E1 #1-758 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6888.0,0.00%,F,F)



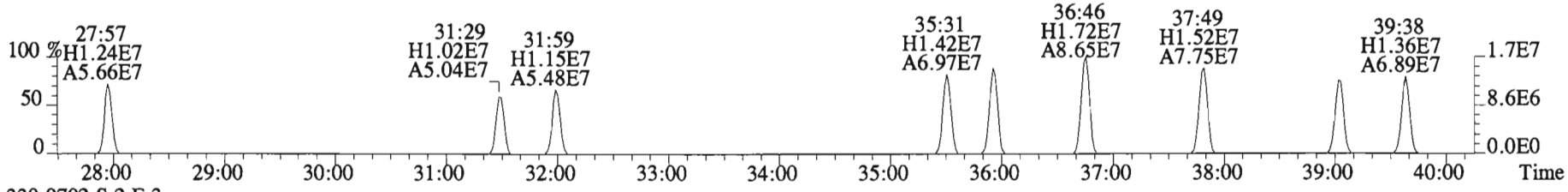
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4388.0,0.00%,F,F)



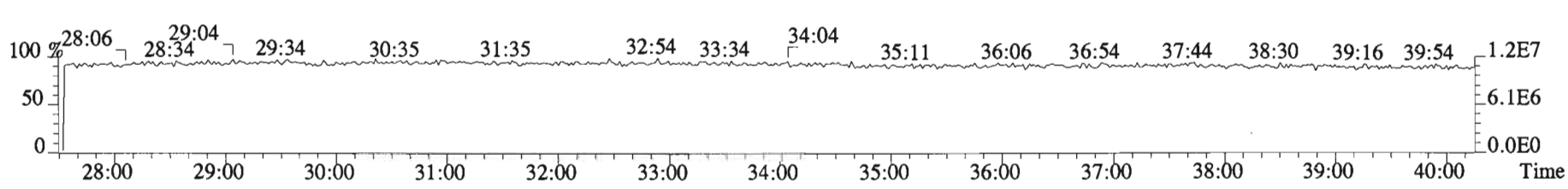
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9360.0,0.00%,F,F)



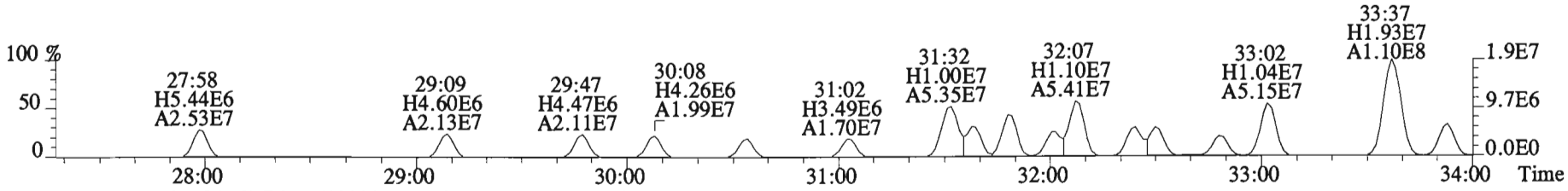
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7452.0,0.00%,F,F)



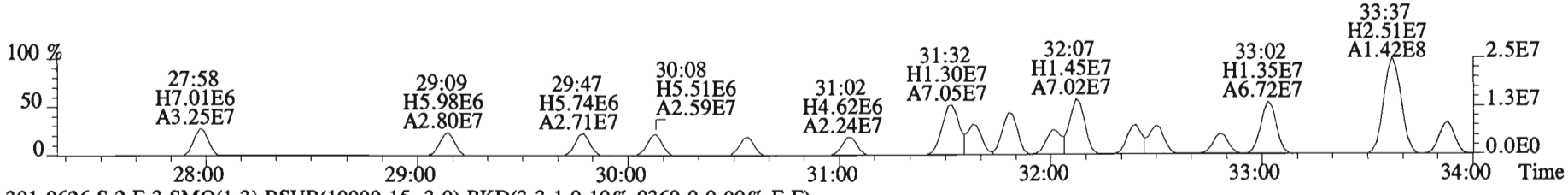
330.9792 S:2 F:3



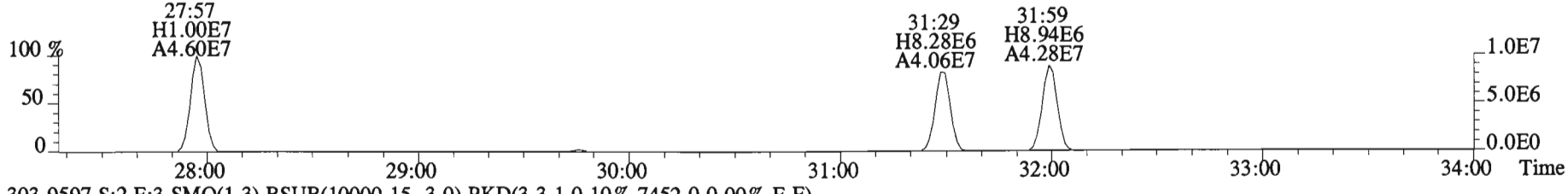
File:150205E1 #1-758 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6888.0,0.00%,F,F)



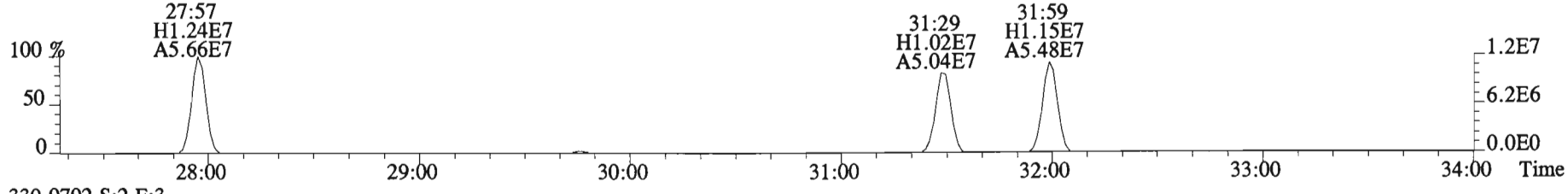
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4388.0,0.00%,F,F)



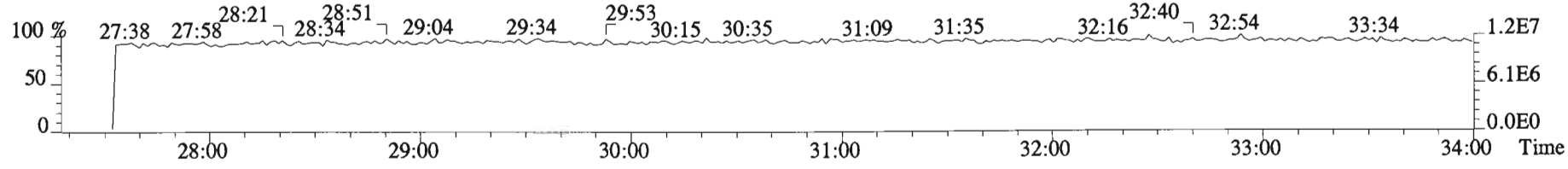
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9360.0,0.00%,F,F)



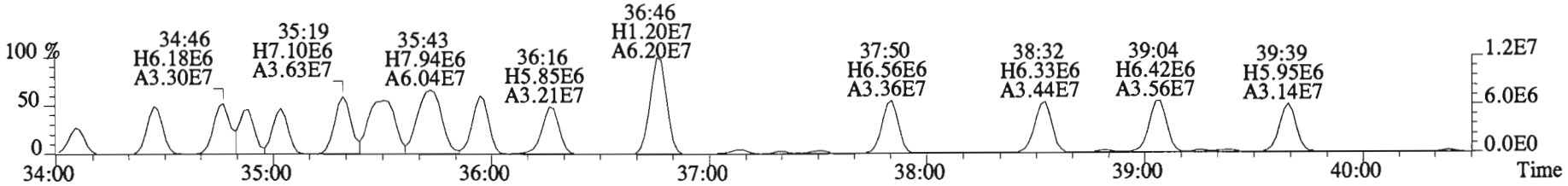
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7452.0,0.00%,F,F)



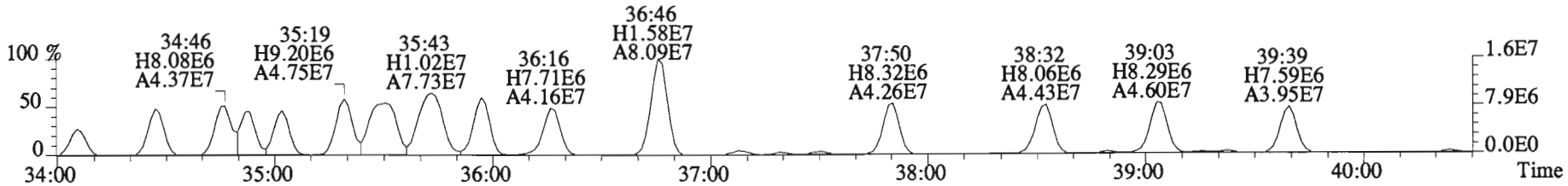
330.9792 S:2 F:3



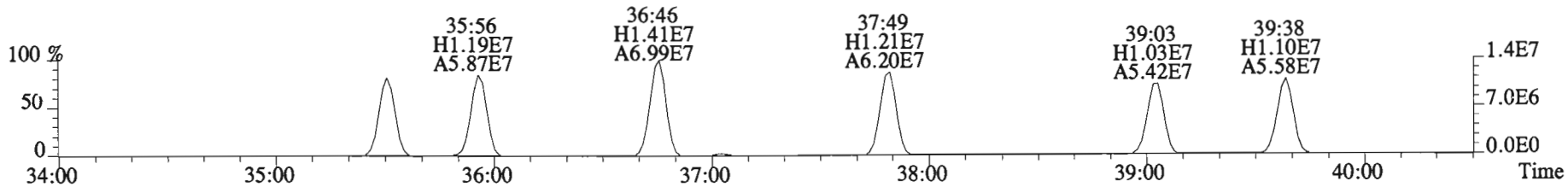
File:150205E1 #1-758 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6888.0,0.00%,F,F)



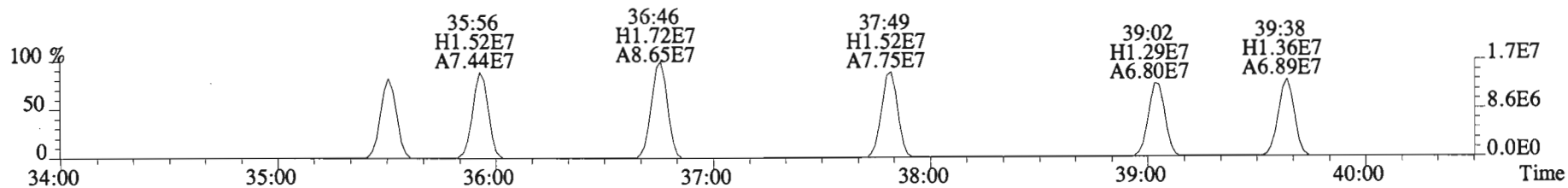
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4388.0,0.00%,F,F)



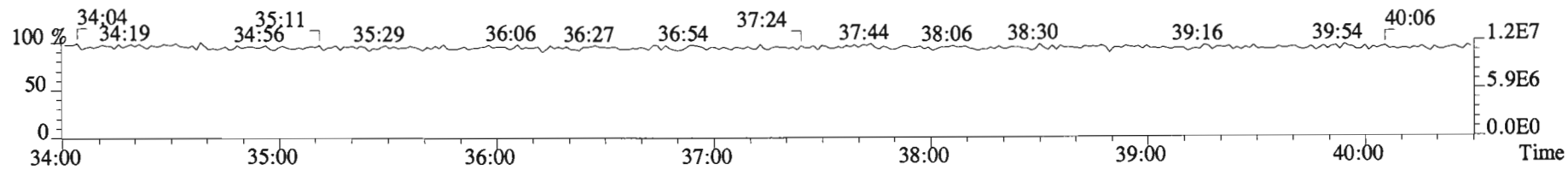
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9360.0,0.00%,F,F)



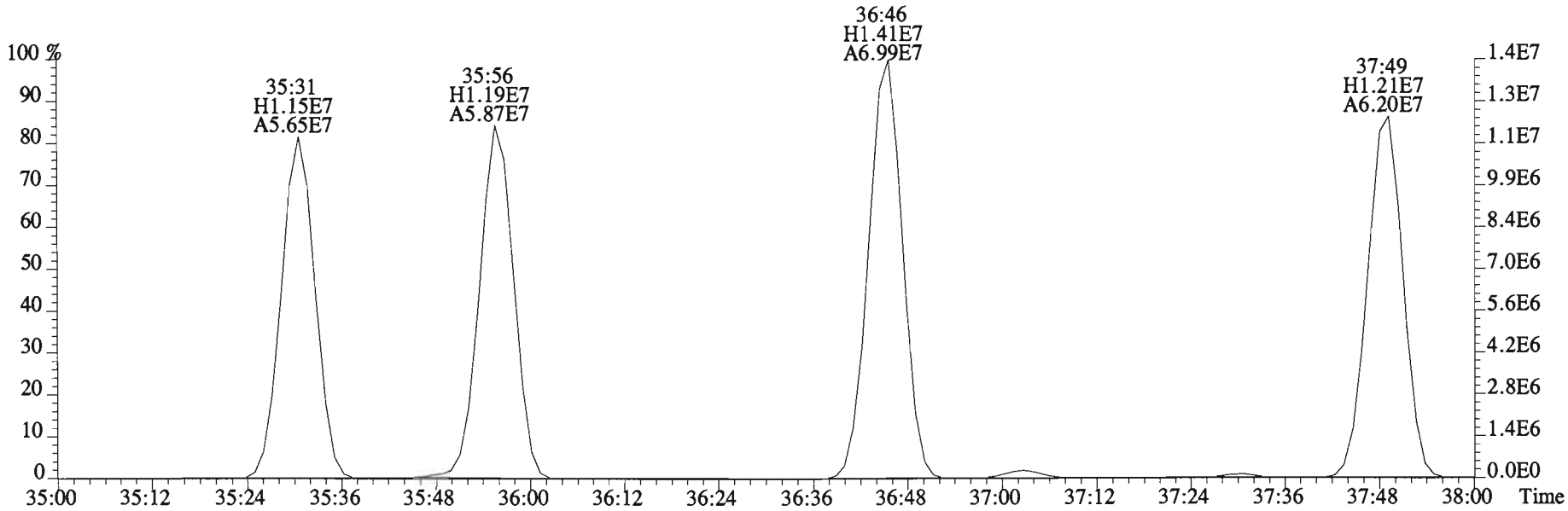
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7452.0,0.00%,F,F)



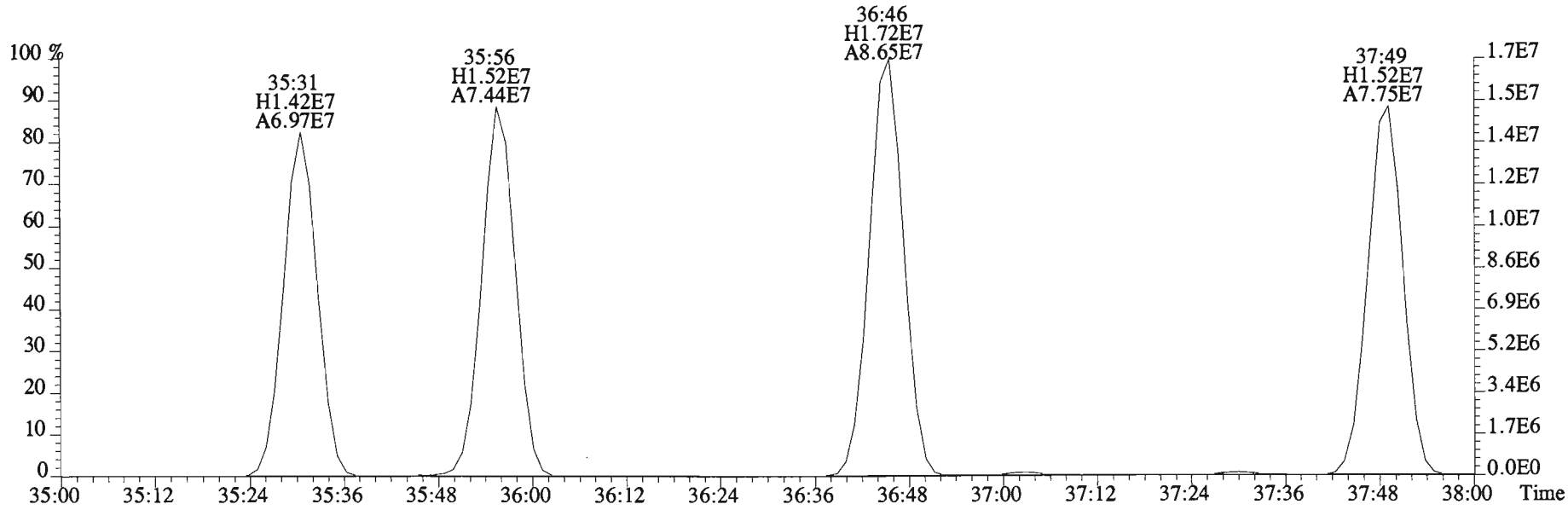
330.9792 S:2 F:3



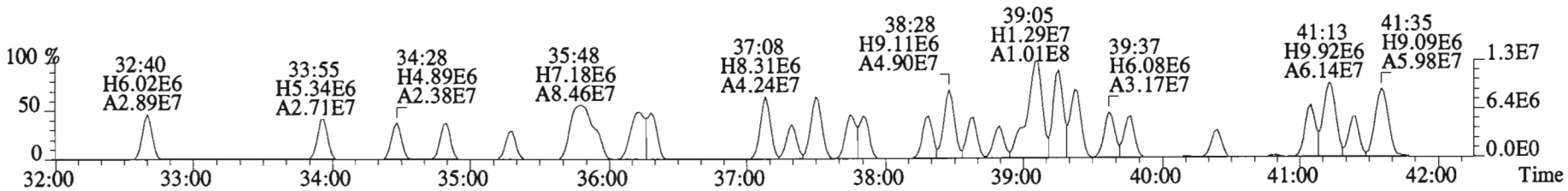
File:150205E1 #1-758 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9360.0,0.00%,F,F)



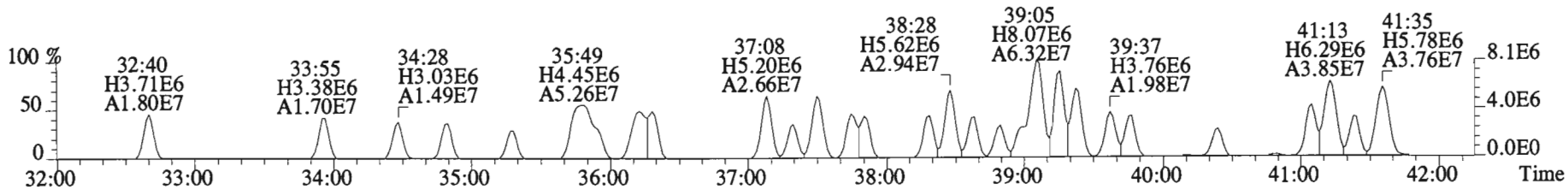
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7452.0,0.00%,F,F)



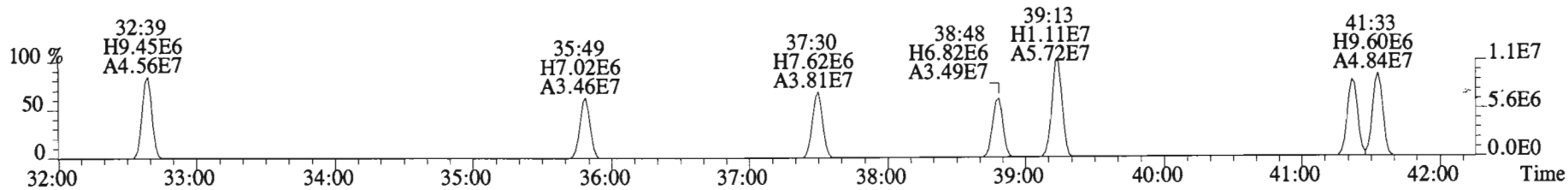
File:150205E1 #1-758 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2408.0,0.00%,F,F)



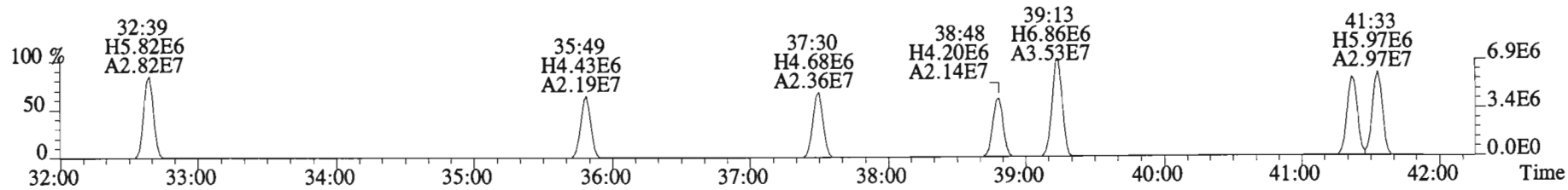
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2092.0,0.00%,F,F)



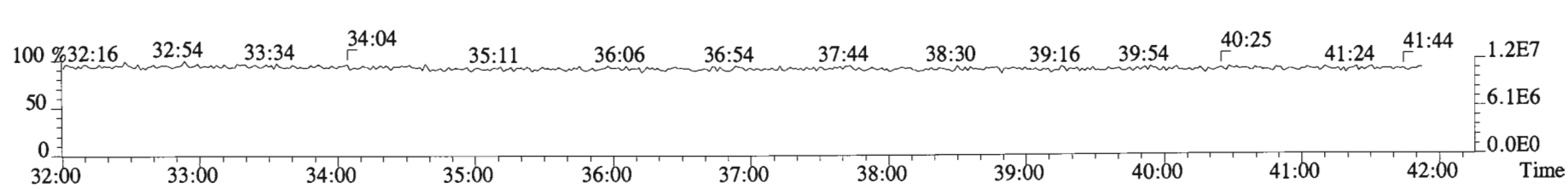
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2816.0,0.00%,F,F)



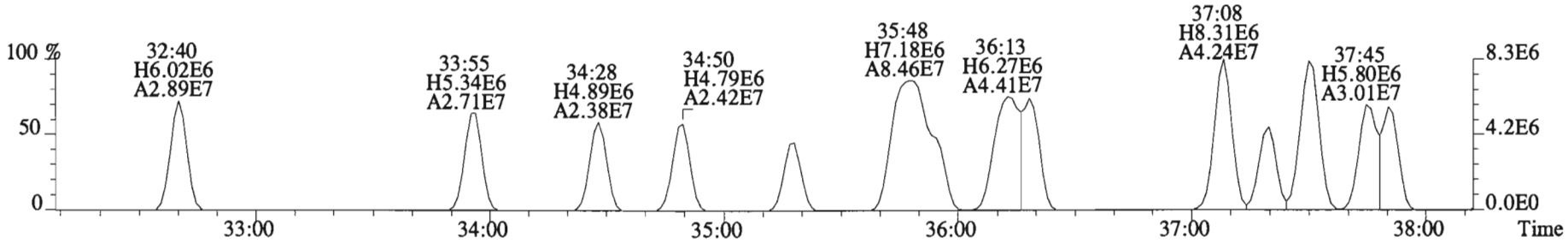
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2144.0,0.00%,F,F)



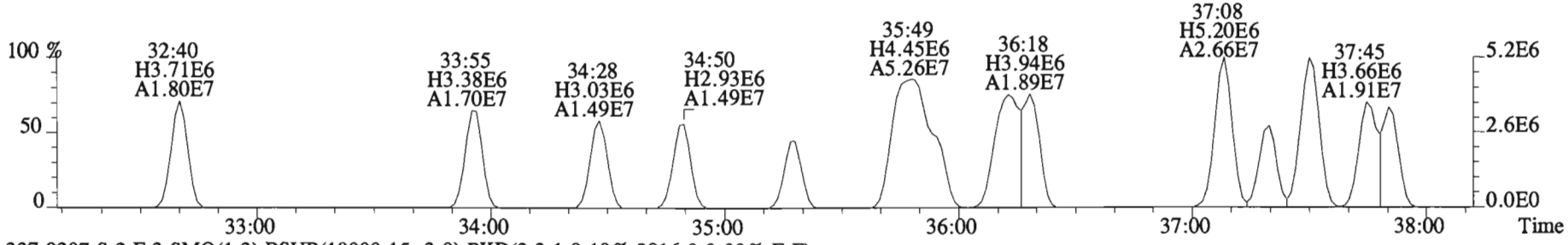
330.9792 S:2 F:3



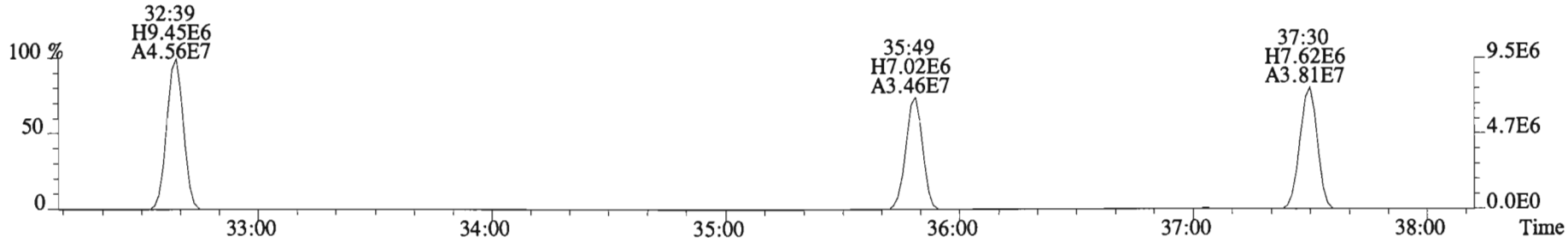
File:150205E1 #1-758 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2408.0,0.00%,F,F)



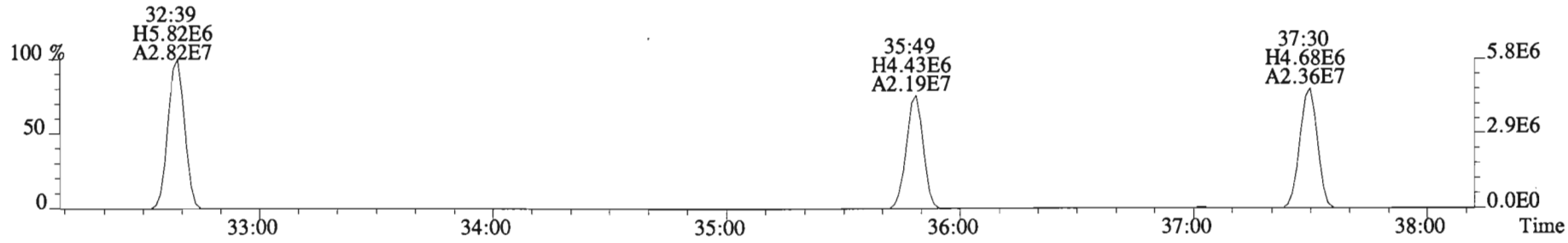
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2092.0,0.00%,F,F)



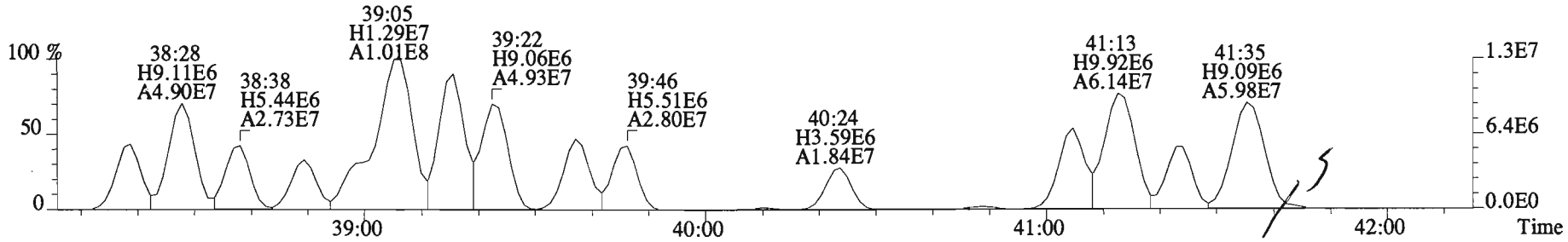
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2816.0,0.00%,F,F)



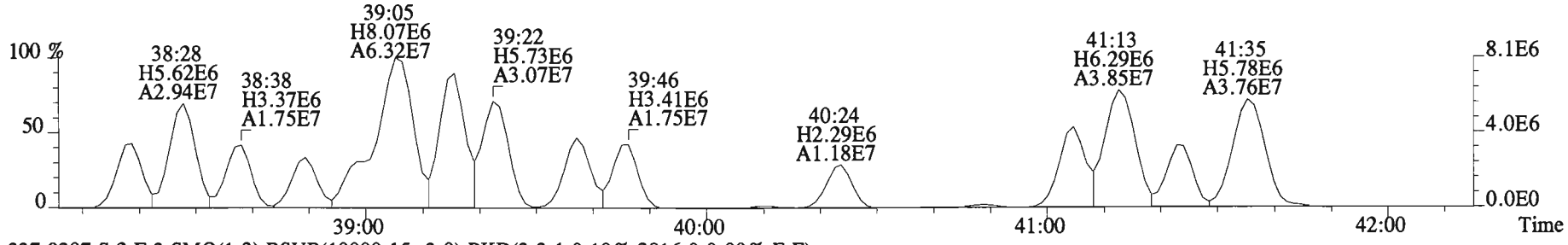
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2144.0,0.00%,F,F)



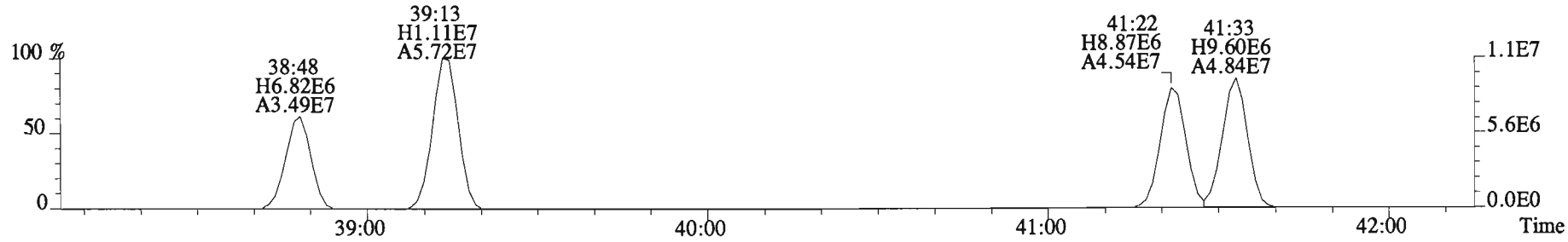
File:150205E1 #1-758 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2408.0,0.00%,F,F)



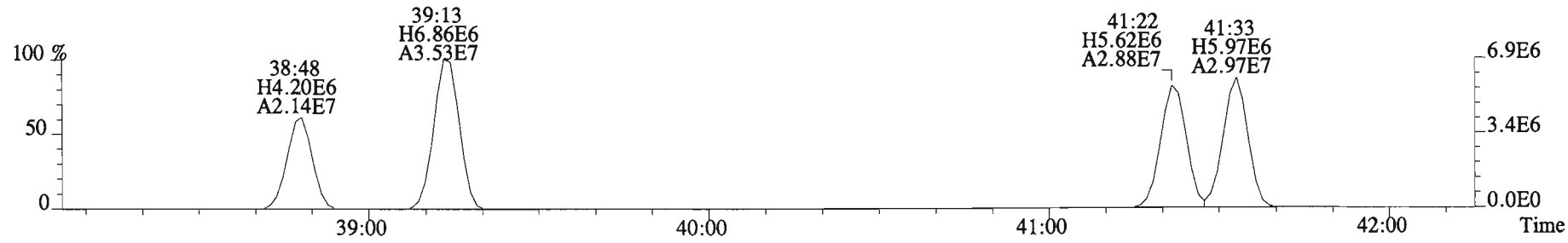
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2092.0,0.00%,F,F)



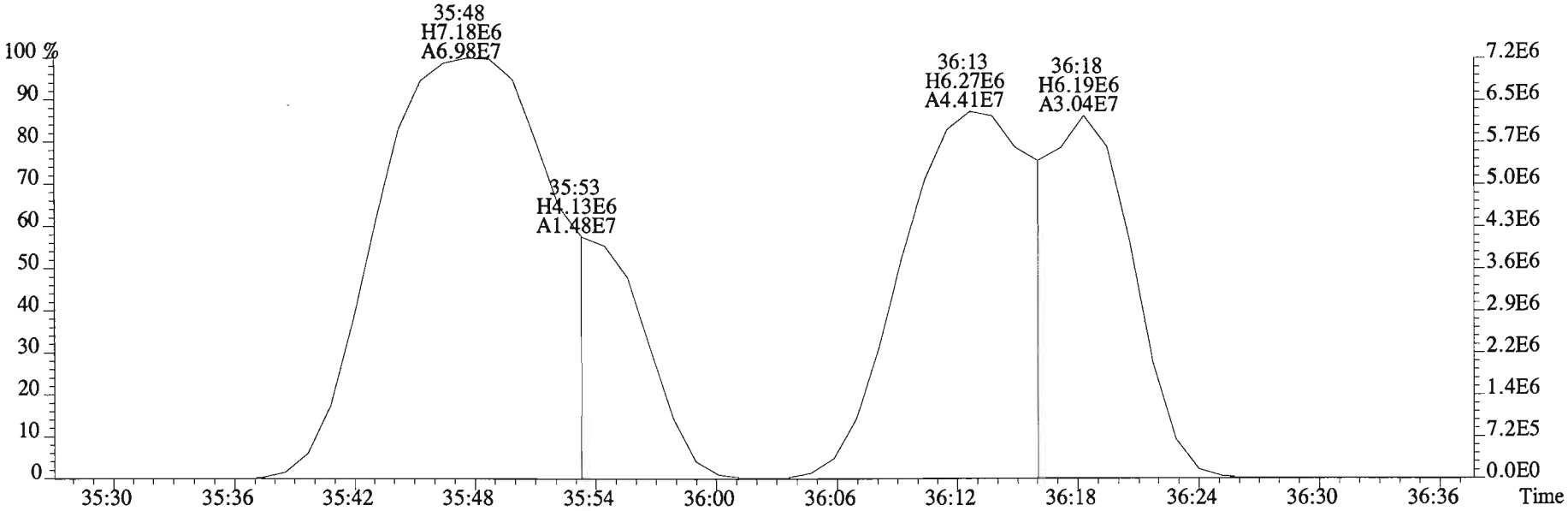
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2816.0,0.00%,F,F)



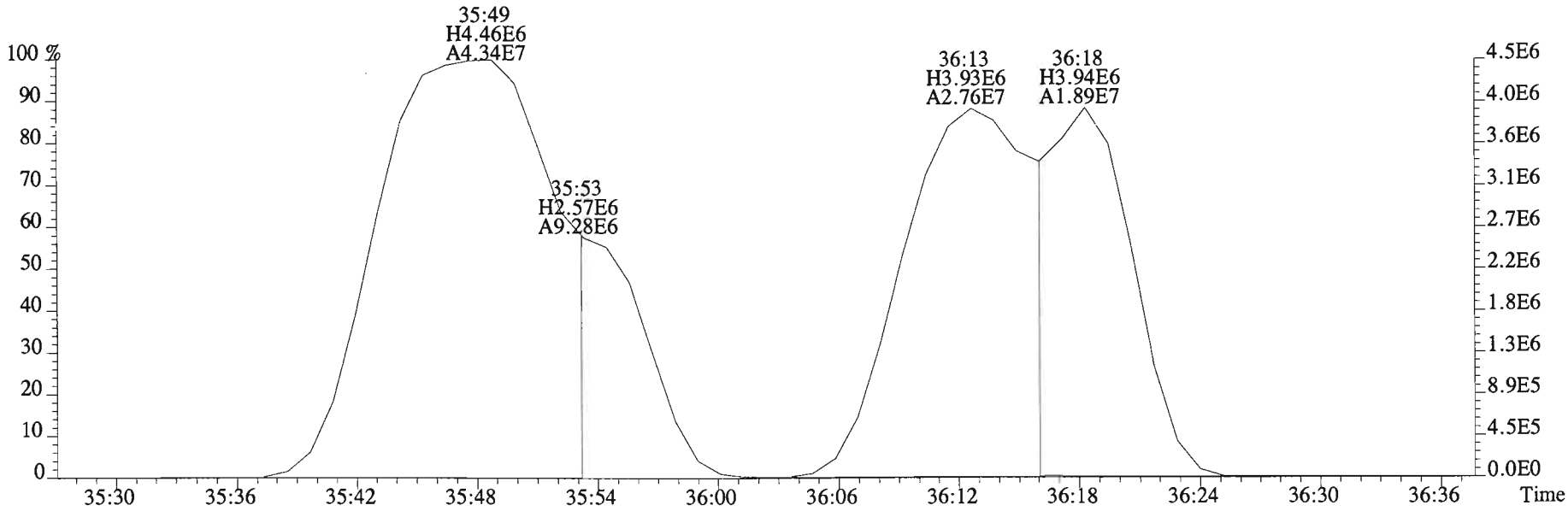
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2144.0,0.00%,F,F)



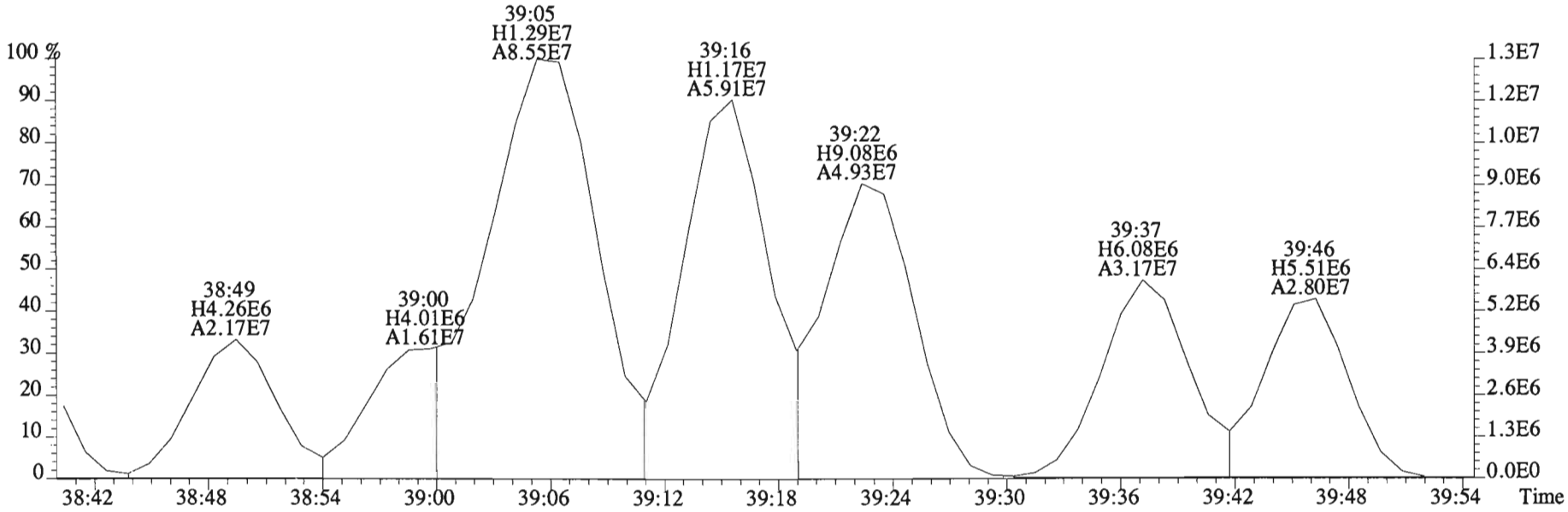
File:150205E1 #1-758 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2408.0,0.00%,F,F)



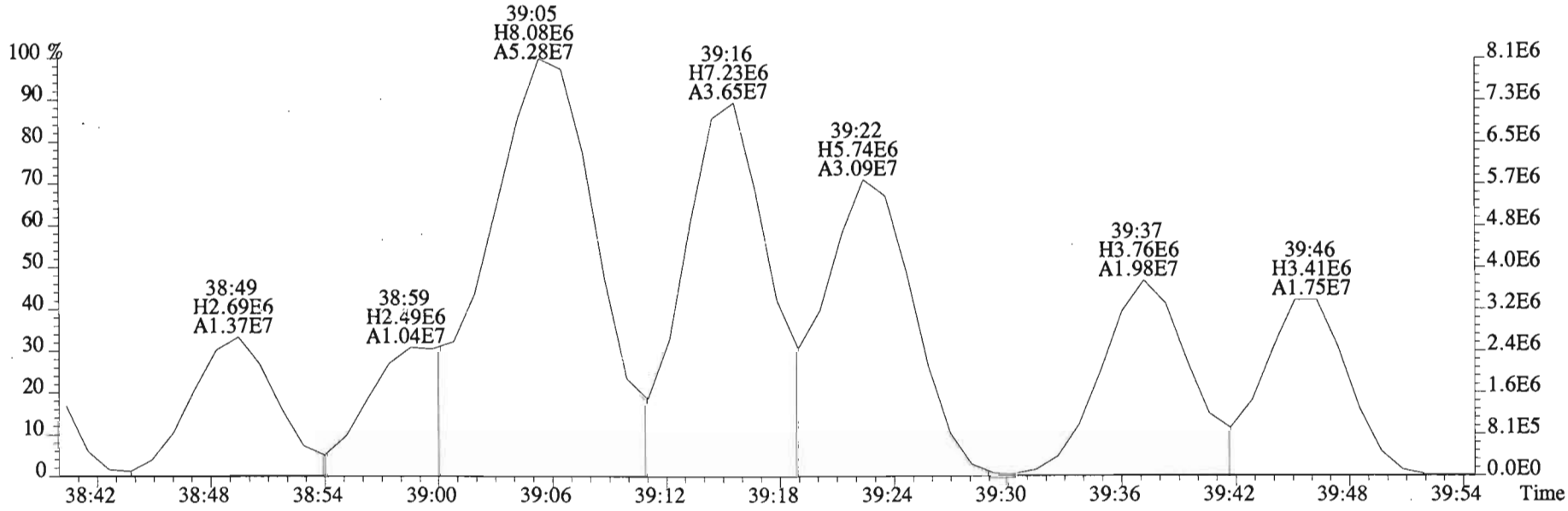
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2092.0,0.00%,F,F)



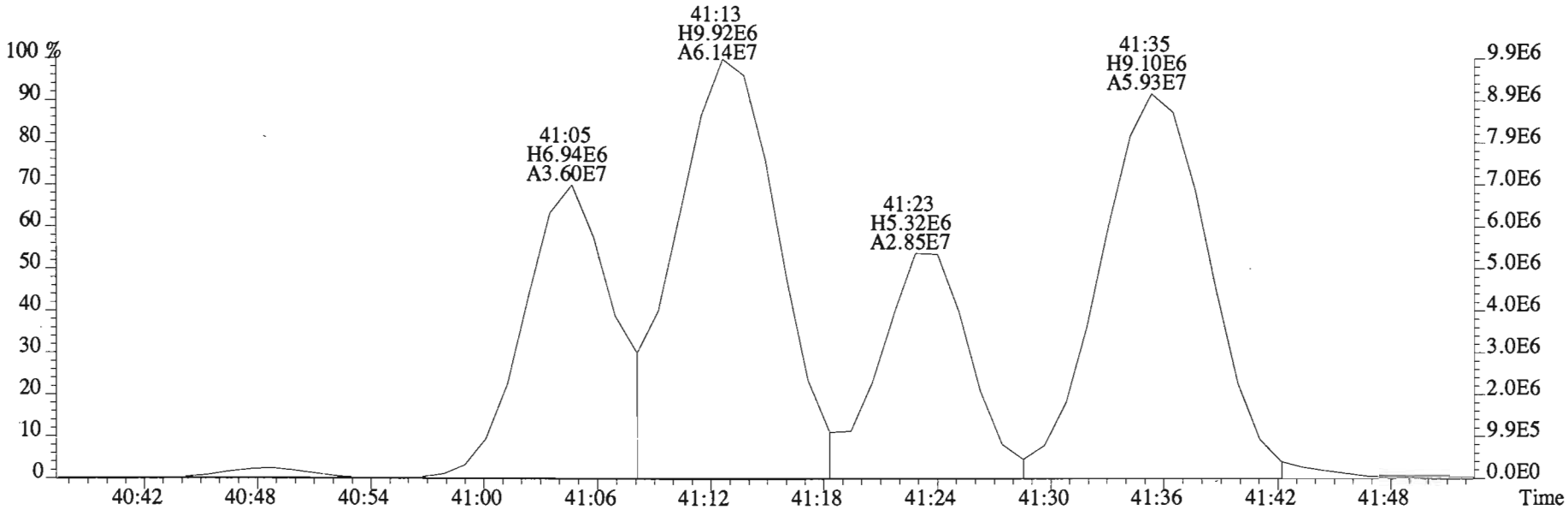
File:150205E1 #1-758 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2408.0,0.00%,F,F)



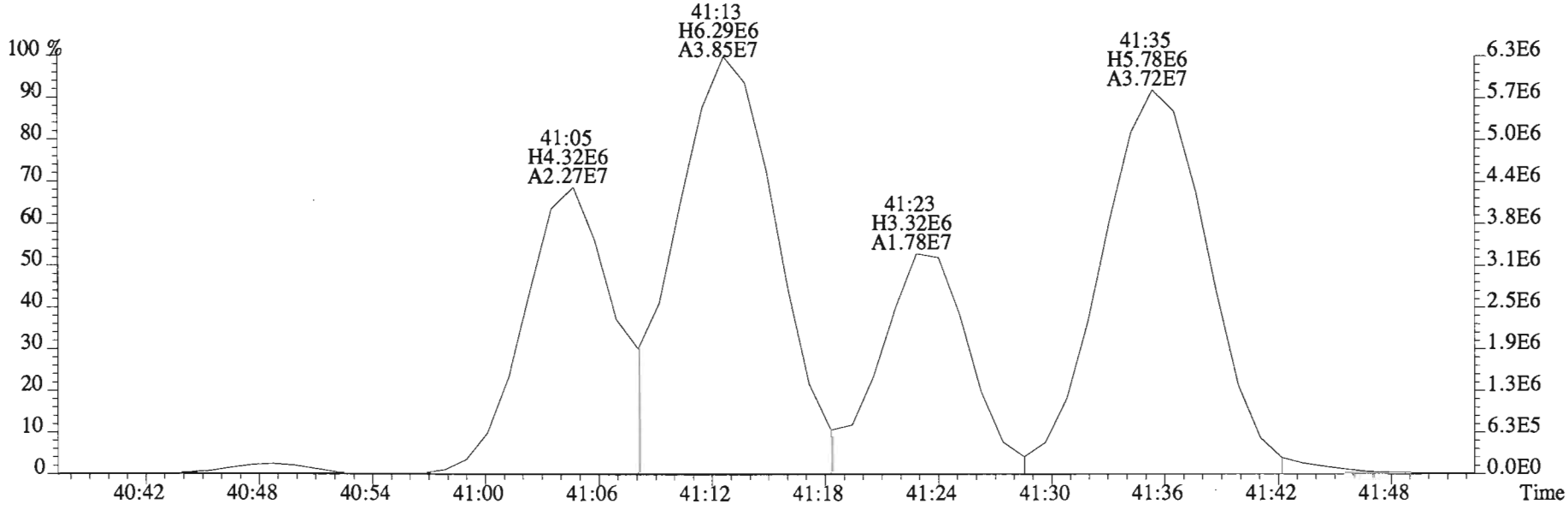
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2092.0,0.00%,F,F)



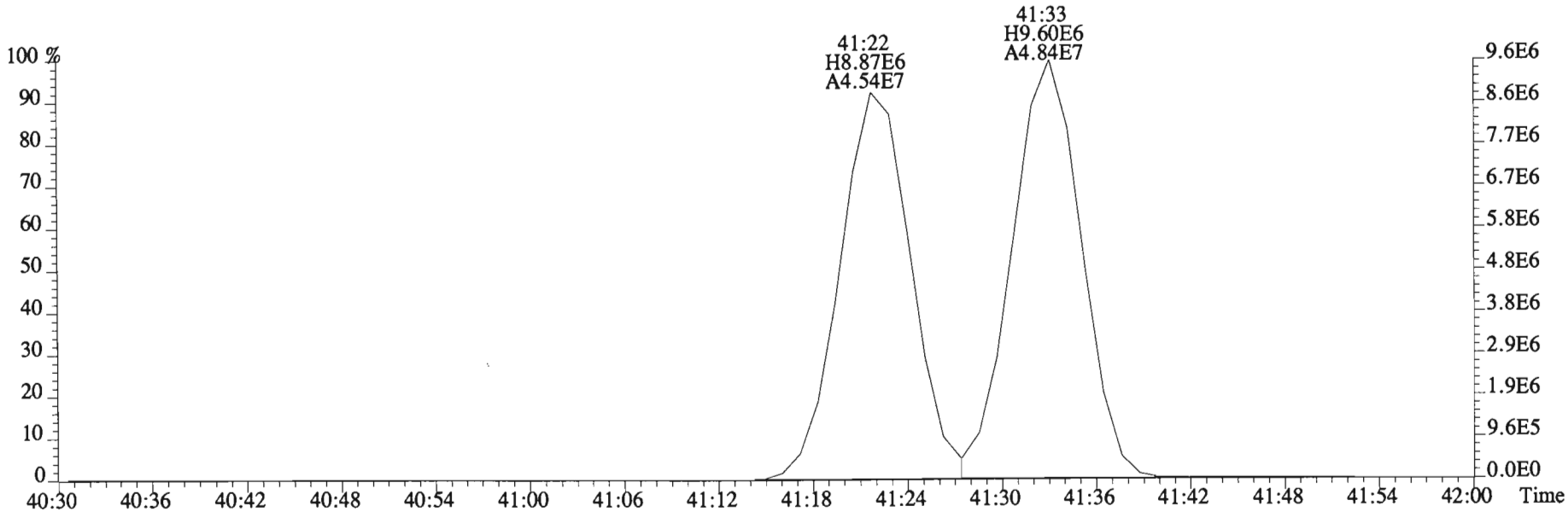
File:150205E1 #1-758 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2408.0,0.00%,F,F)



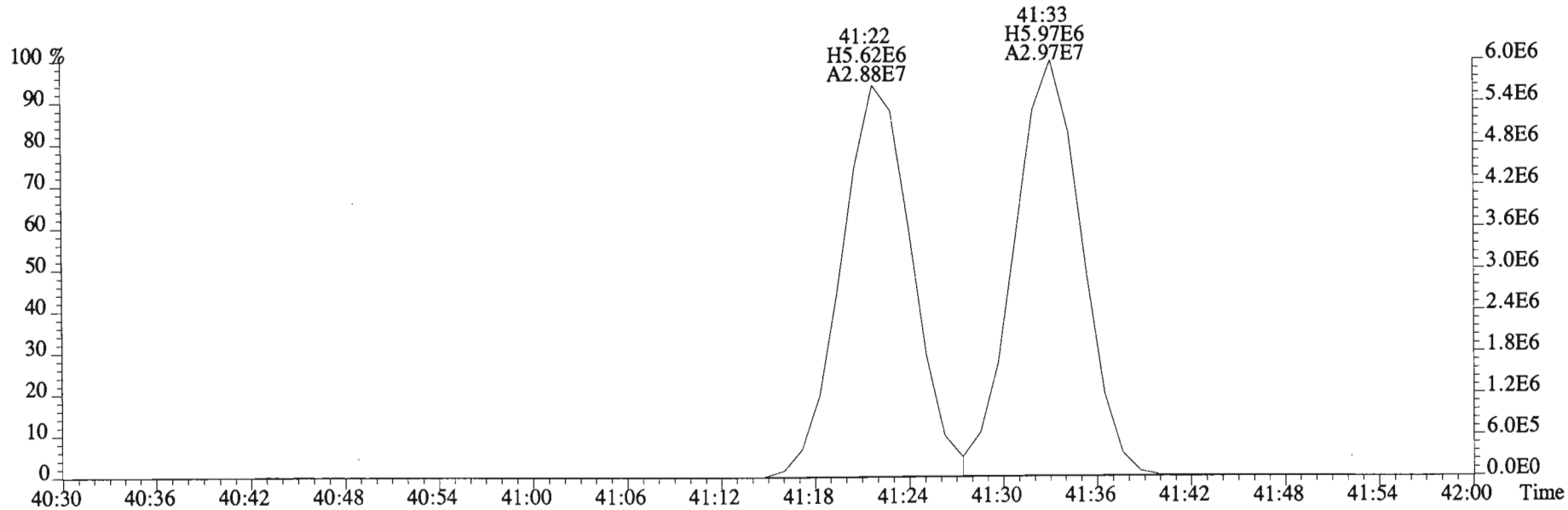
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2092.0,0.00%,F,F)



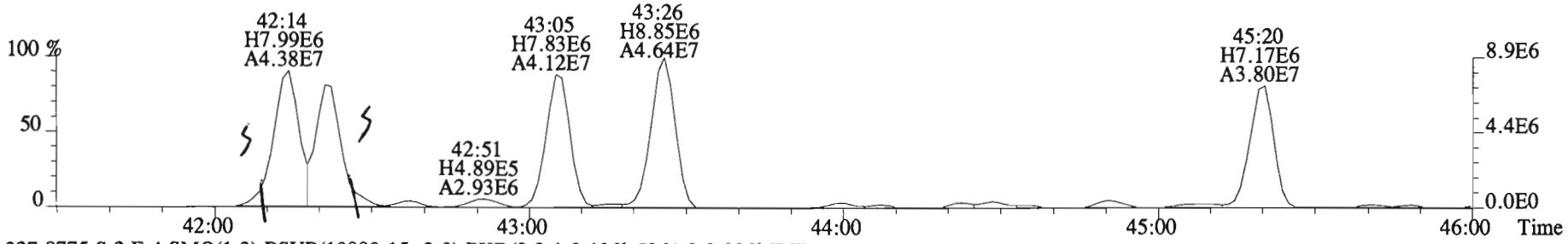
File:150205E1 #1-758 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2816.0,0.00%,F,F)



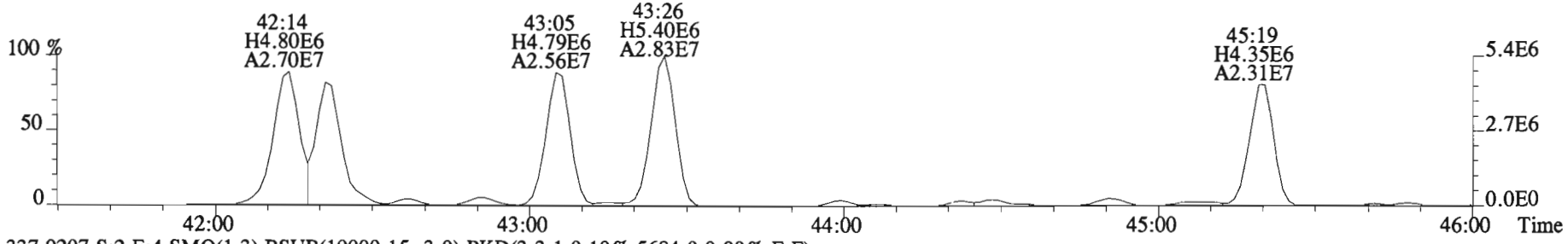
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2144.0,0.00%,F,F)



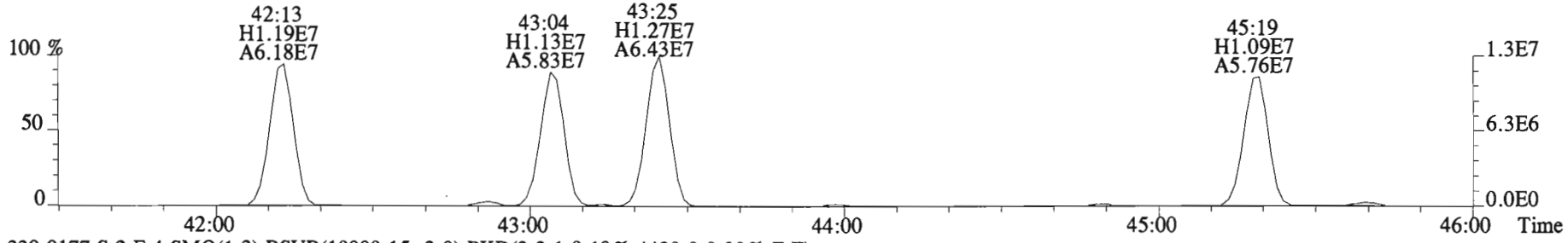
File:150205E1 #1-555 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6456.0,0.00%,F,F)



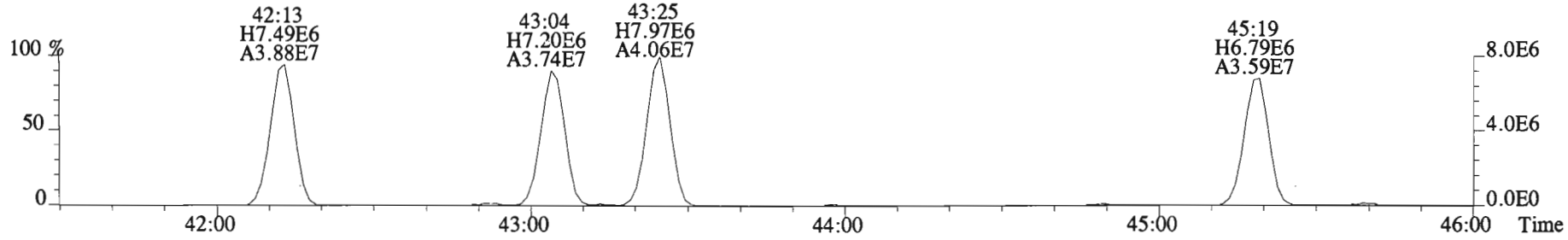
327.8775 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5264.0,0.00%,F,F)



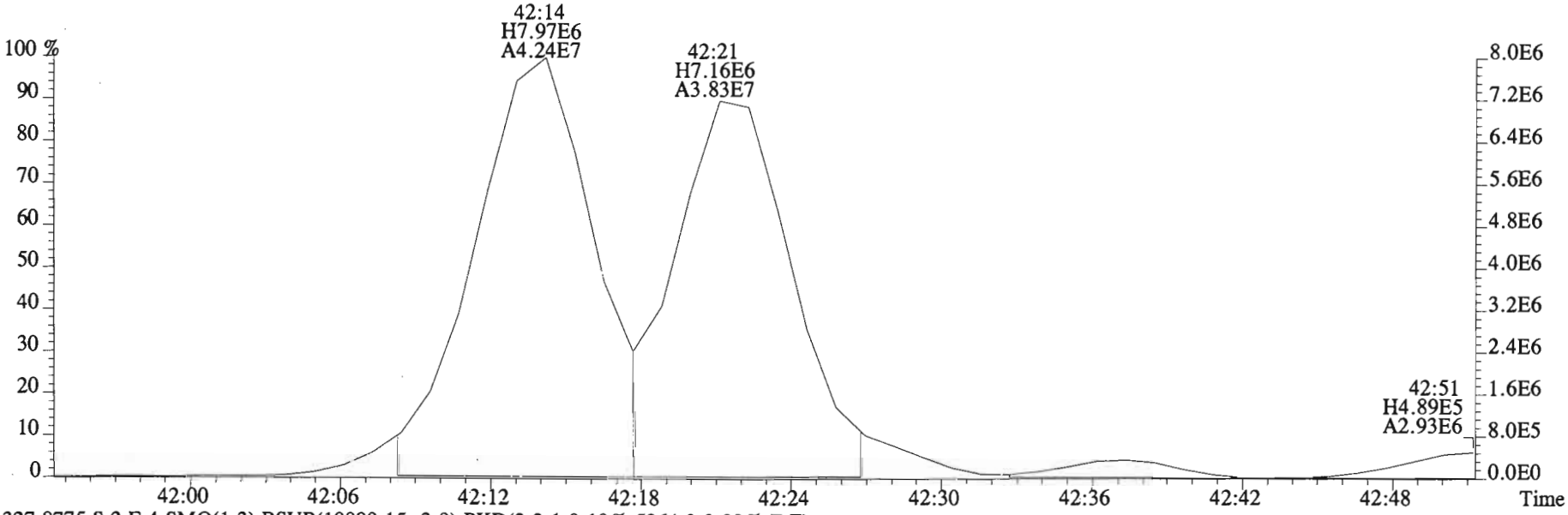
337.9207 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5684.0,0.00%,F,F)



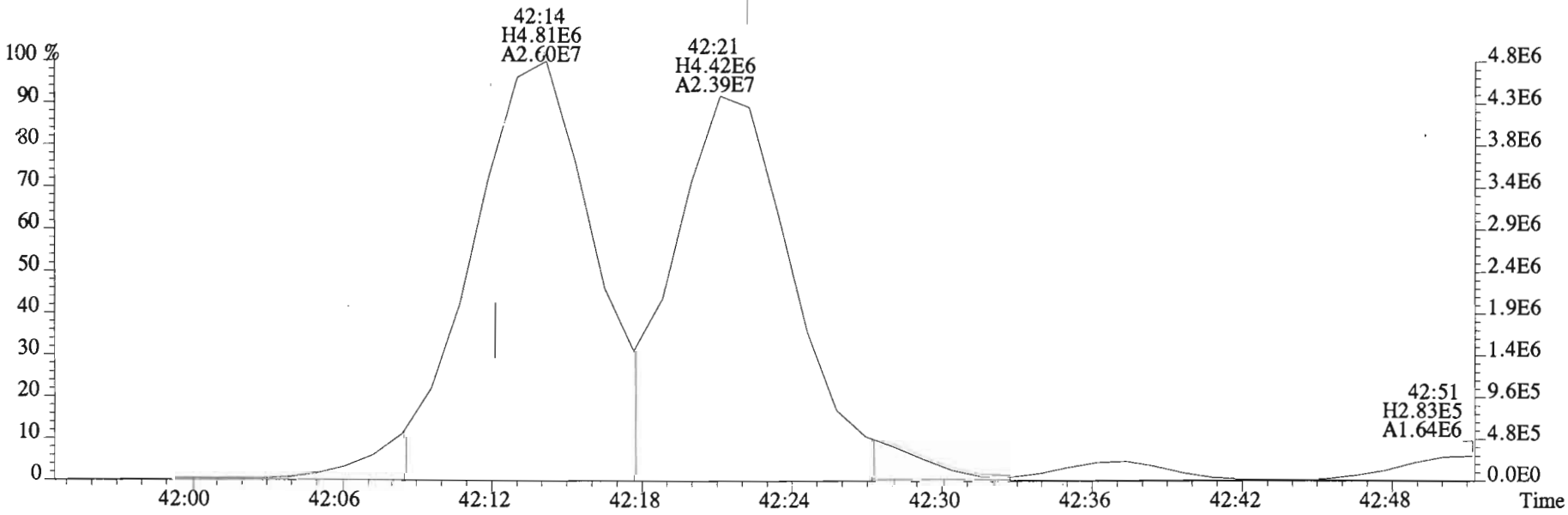
339.9177 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4420.0,0.00%,F,F)



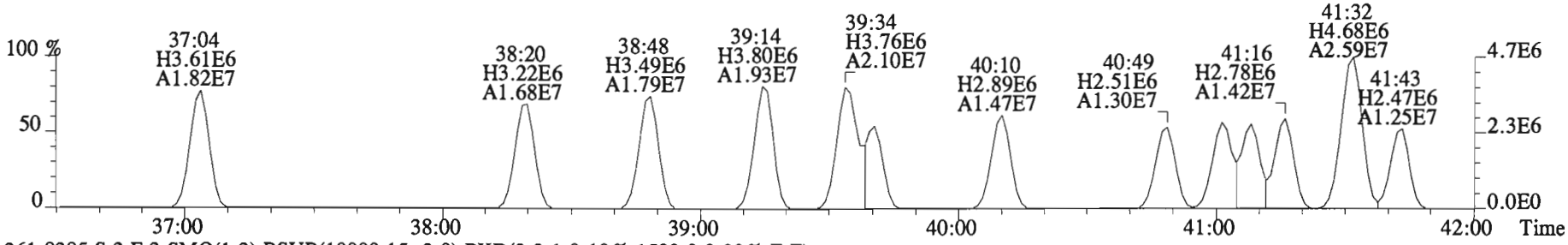
File:150205E1 #1-555 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6456.0,0.00%,F,F)



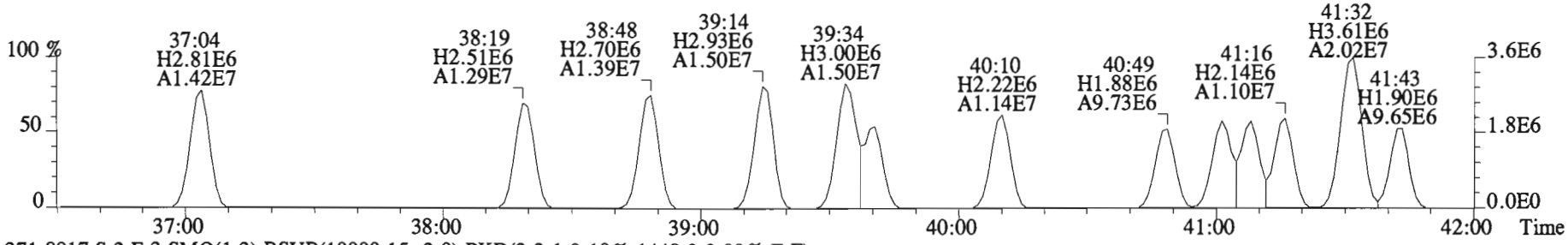
327.8775 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5264.0,0.00%,F,F)



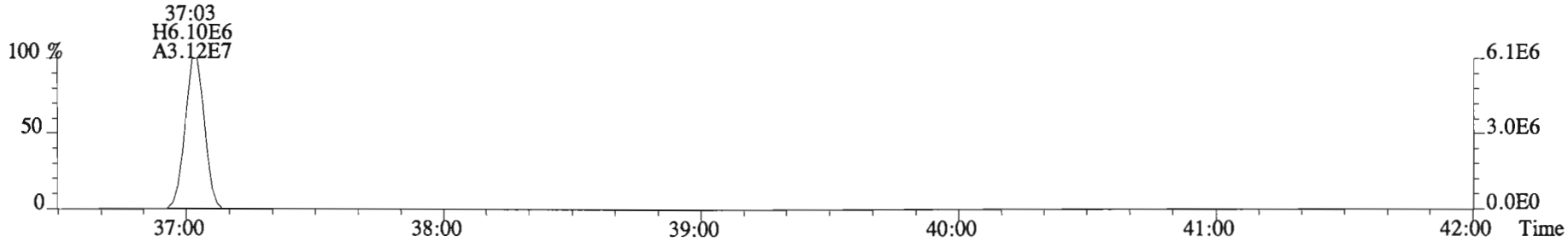
File:150205E1 #1-758 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1480.0,0.00%,F,F)



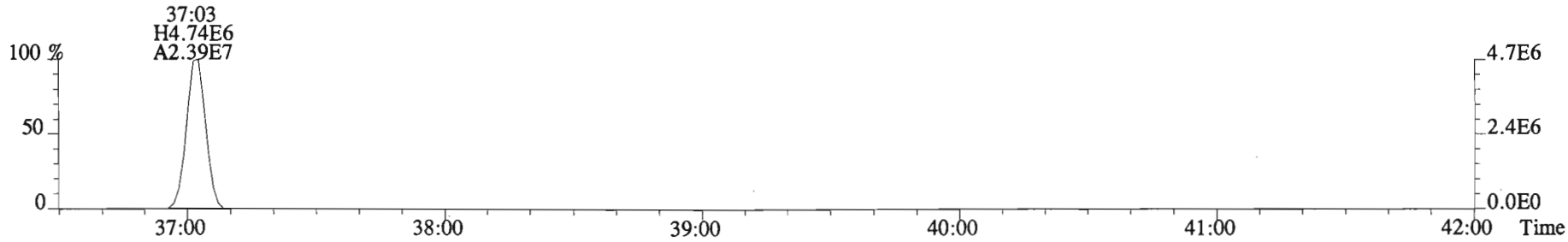
361.8385 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1520.0,0.00%,F,F)



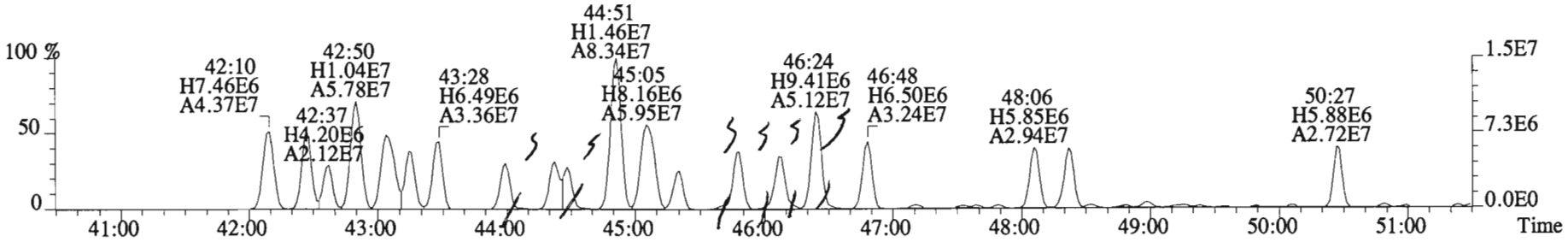
371.8817 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1448.0,0.00%,F,F)



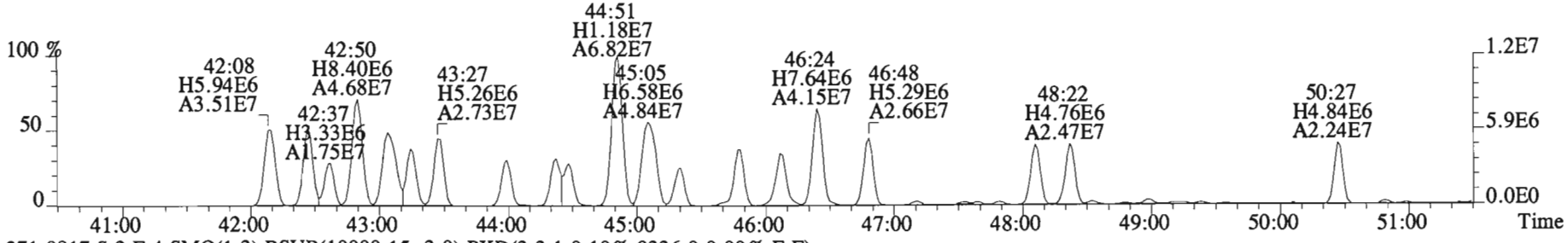
373.8788 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1584.0,0.00%,F,F)



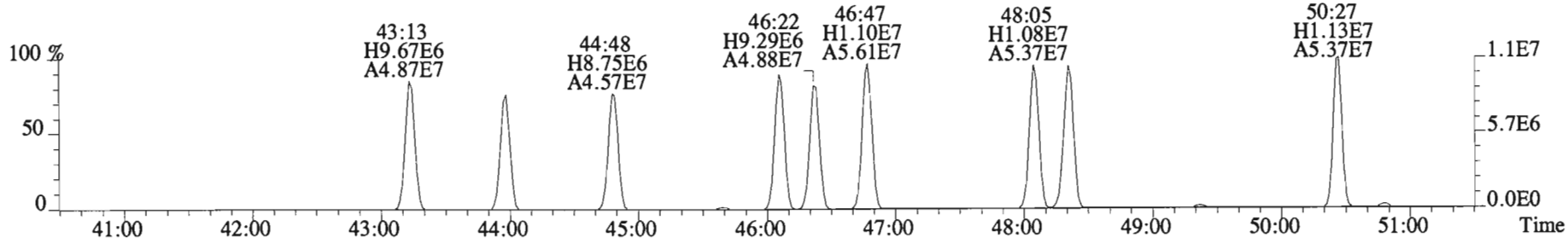
File:150205E1 #1-555 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21804.0,0.00%,F,F)



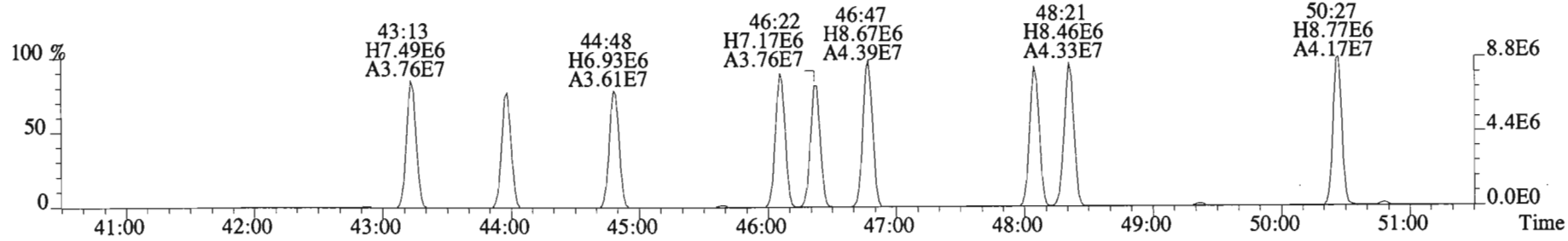
361.8385 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14764.0,0.00%,F,F)



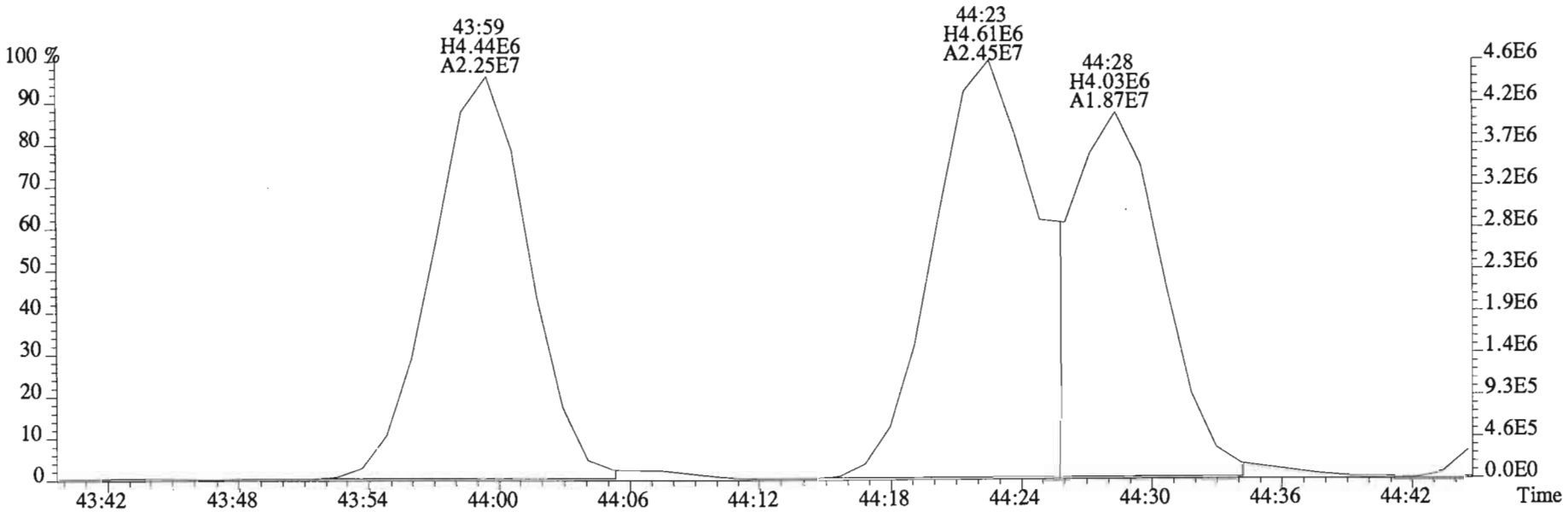
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9336.0,0.00%,F,F)



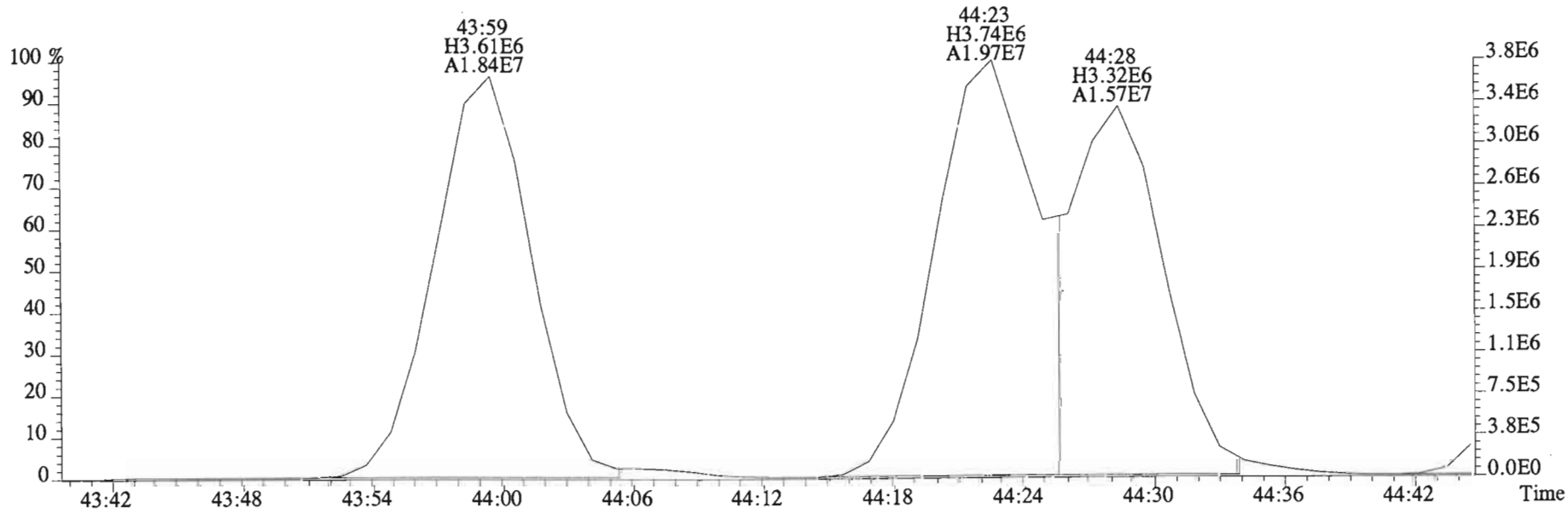
373.8788 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6104.0,0.00%,F,F)



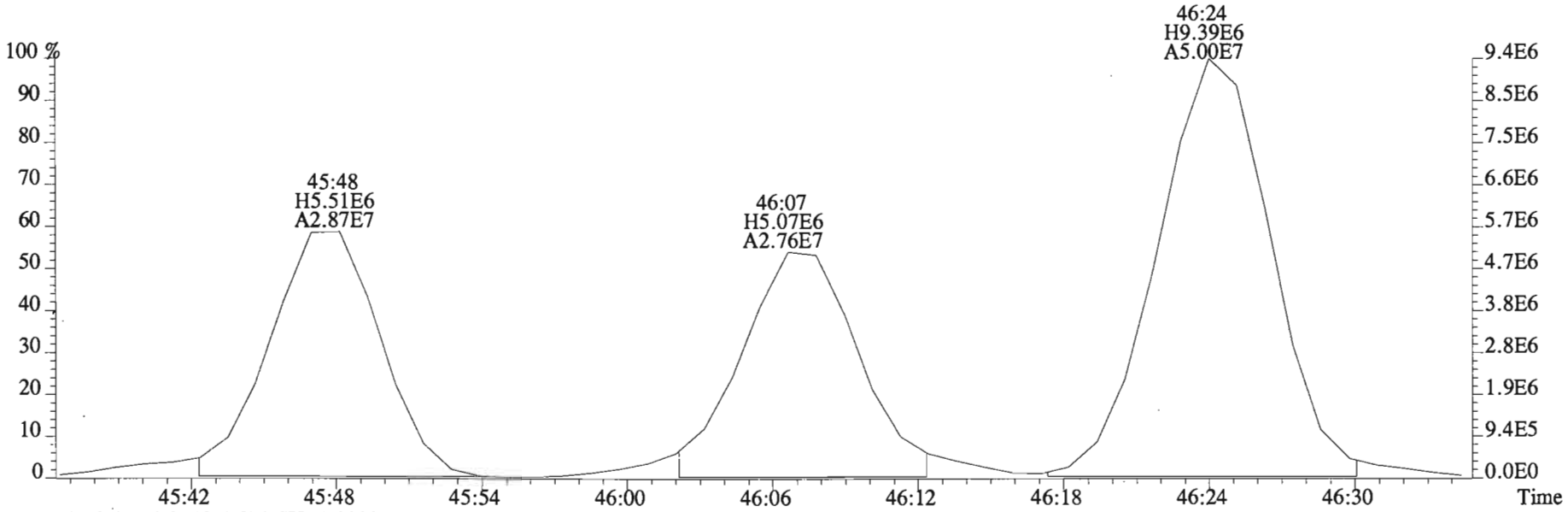
File:150205E1 #1-555 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21804.0,0.00%,F,F)



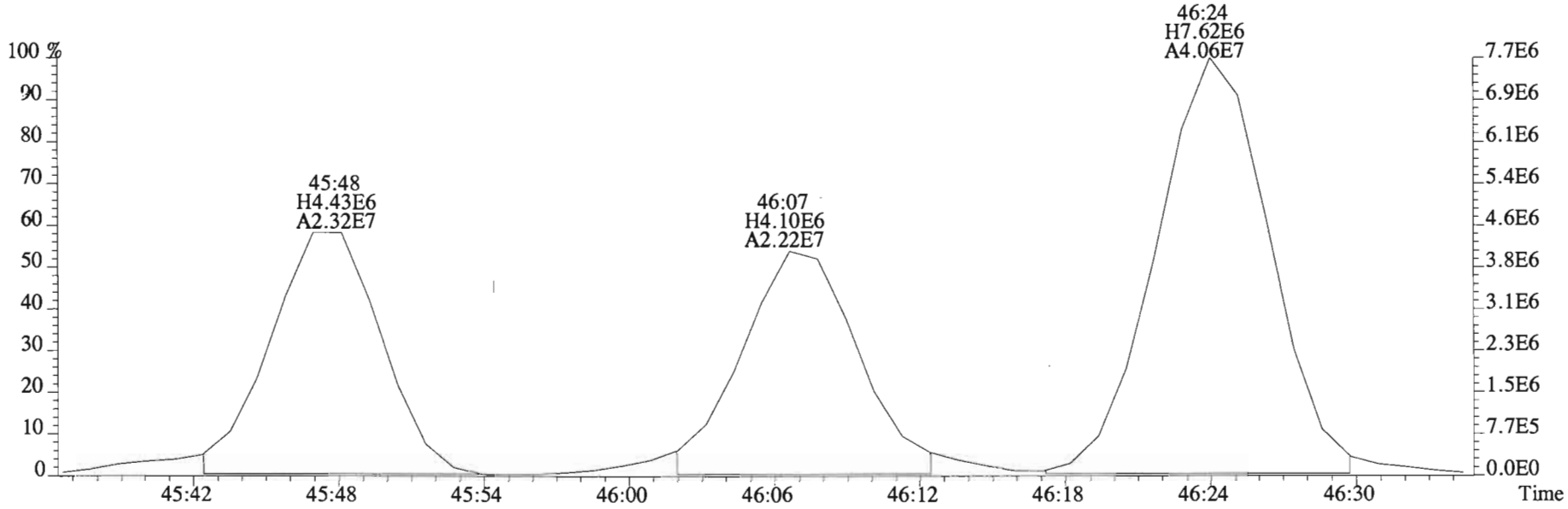
361.8385 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14764.0,0.00%,F,F)



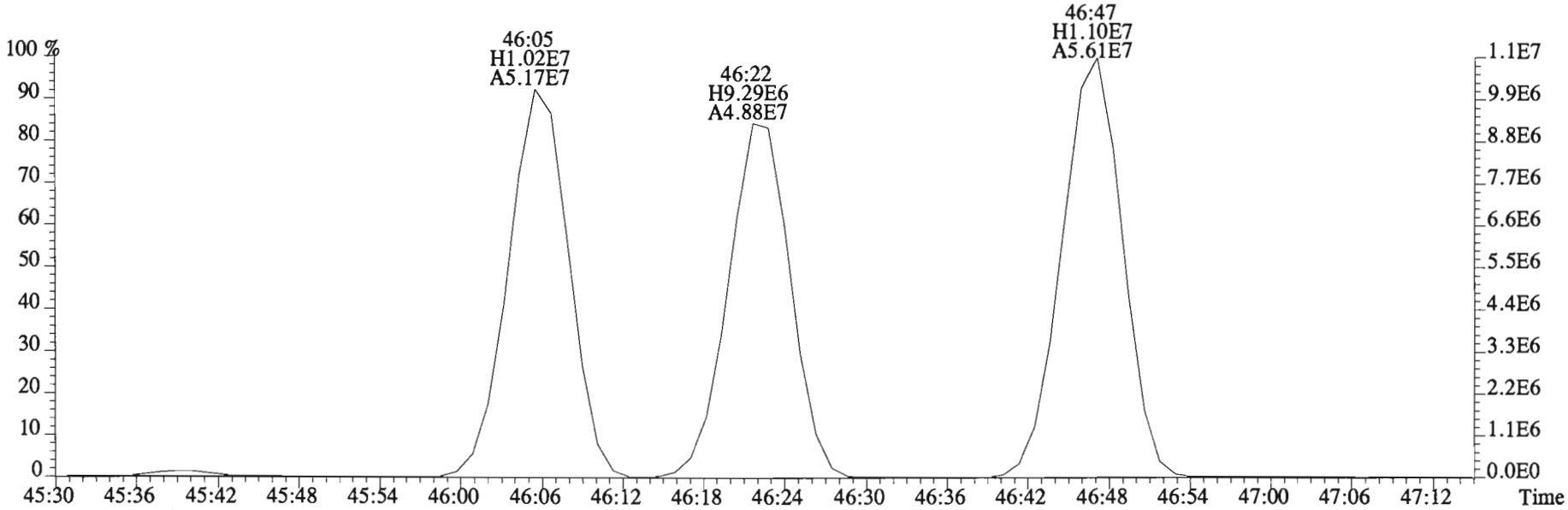
File:150205E1 #1-555 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21804.0,0.00%,F,F)



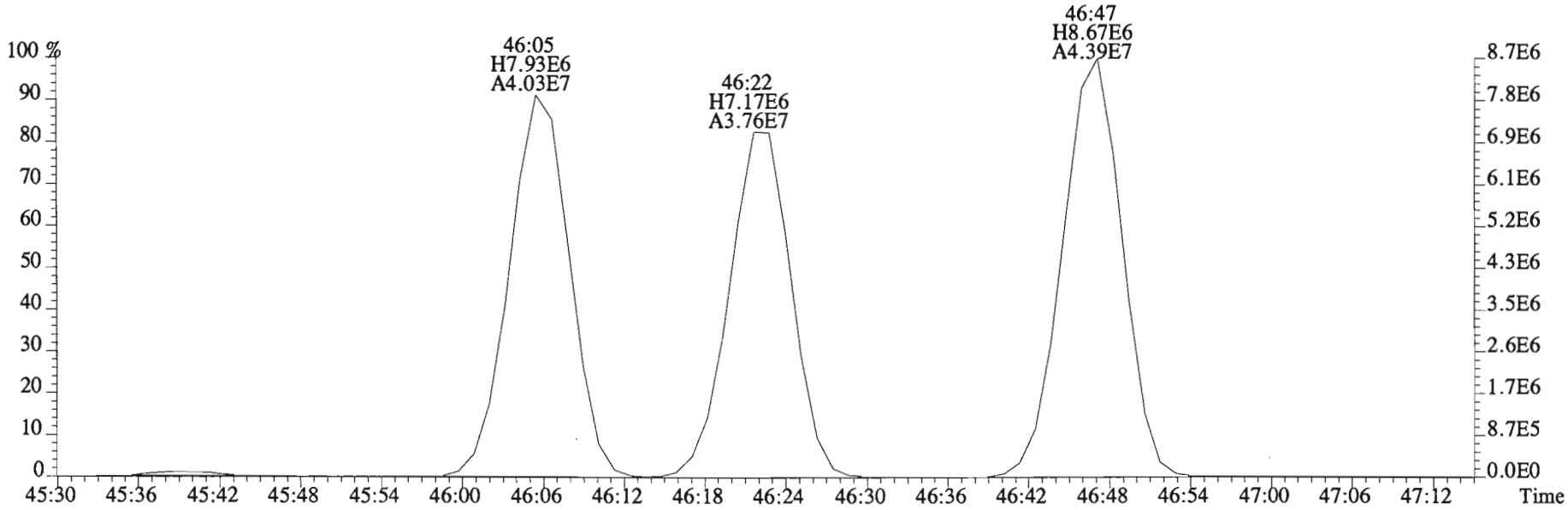
361.8385 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14764.0,0.00%,F,F)



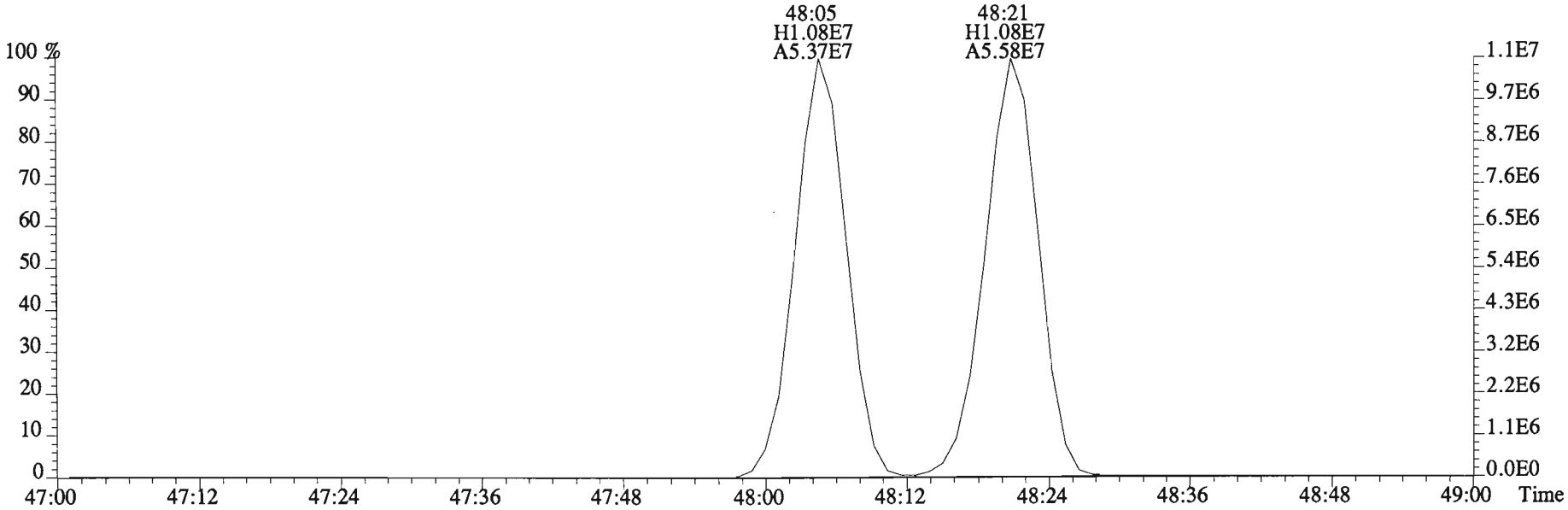
File:150205E1 #1-555 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9336.0,0.00%,F,F)



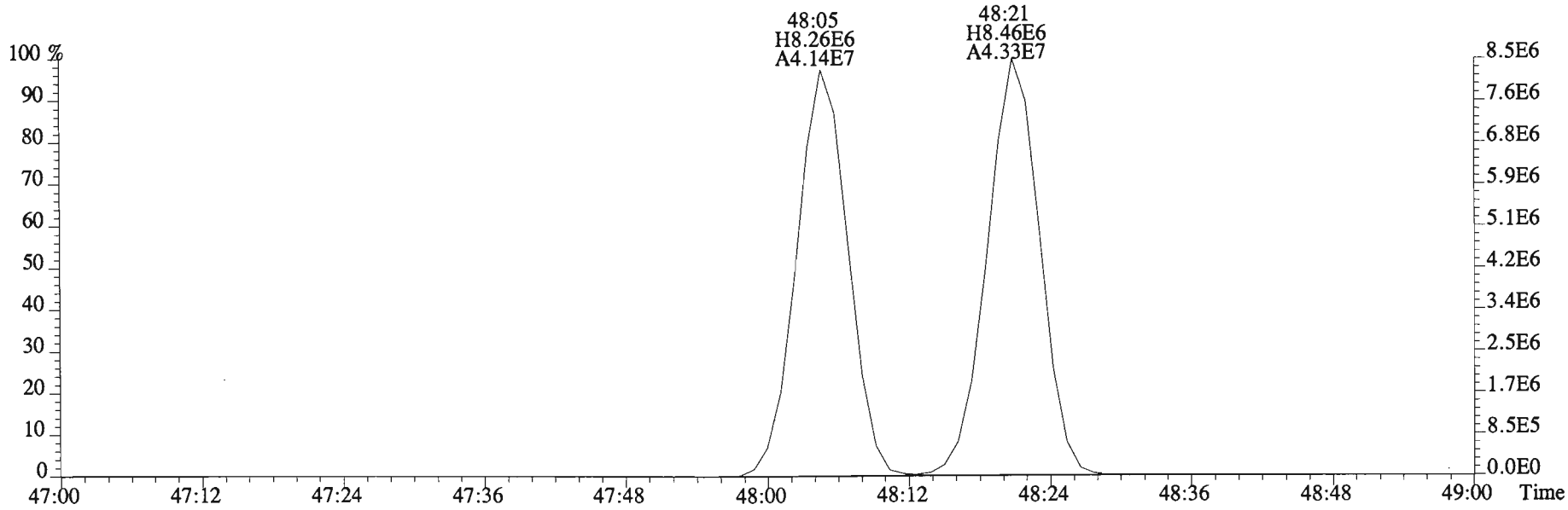
373.8788 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6104.0,0.00%,F,F)



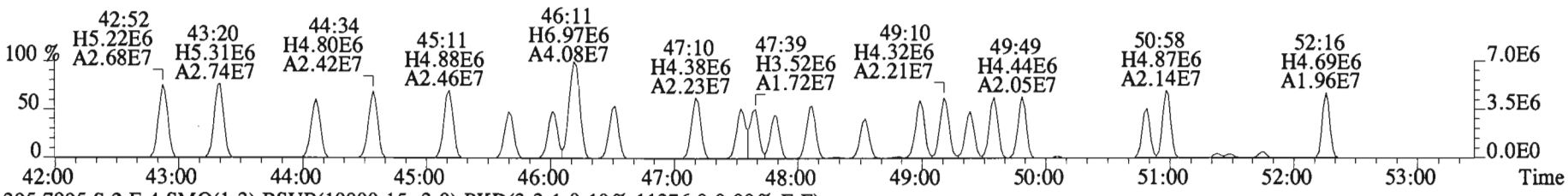
File:150205E1 #1-555 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9336.0,0.00%,F,F)



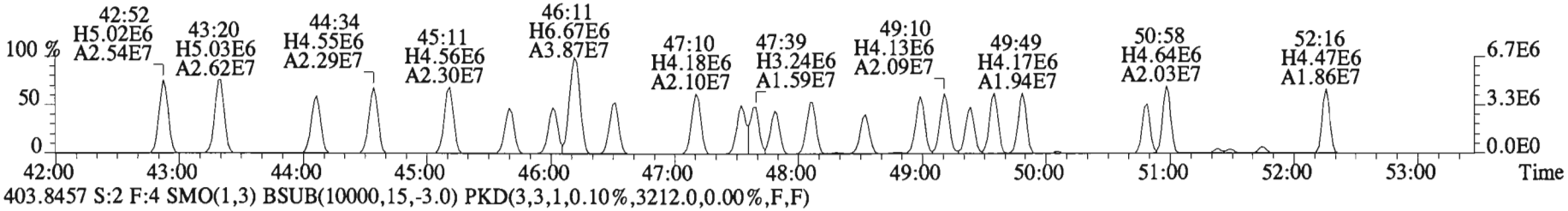
373.8788 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6104.0,0.00%,F,F)



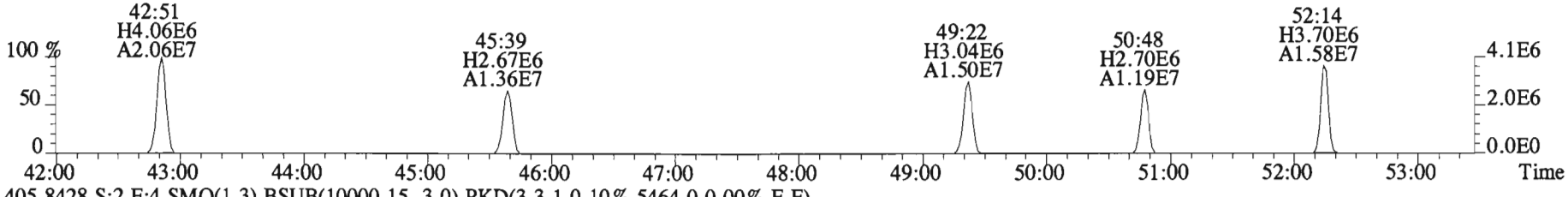
File:150205E1 #1-555 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8884.0,0.00%,F,F)



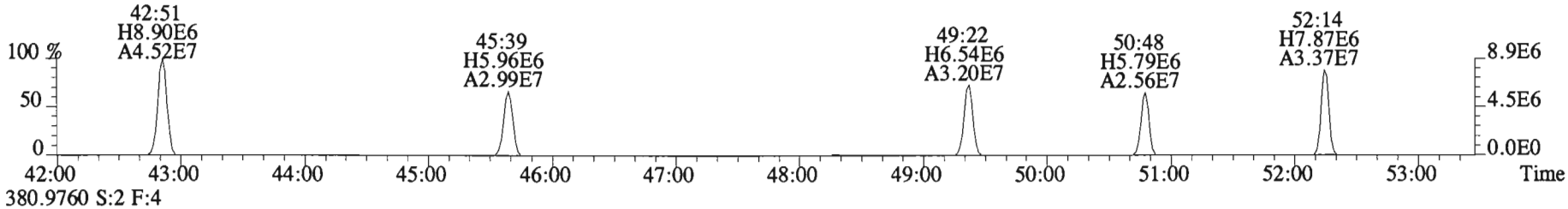
395.7995 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11376.0,0.00%,F,F)



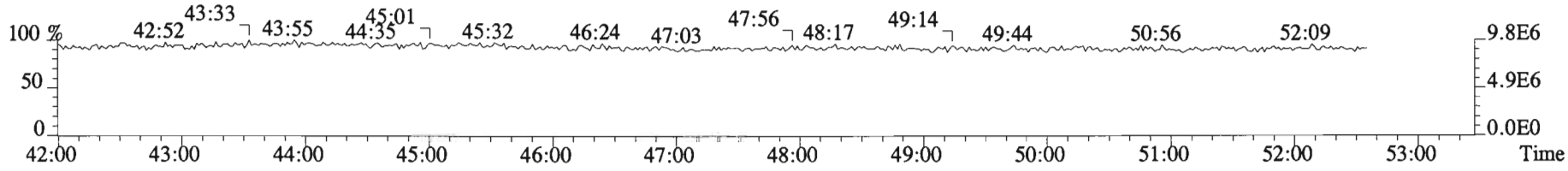
403.8457 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3212.0,0.00%,F,F)



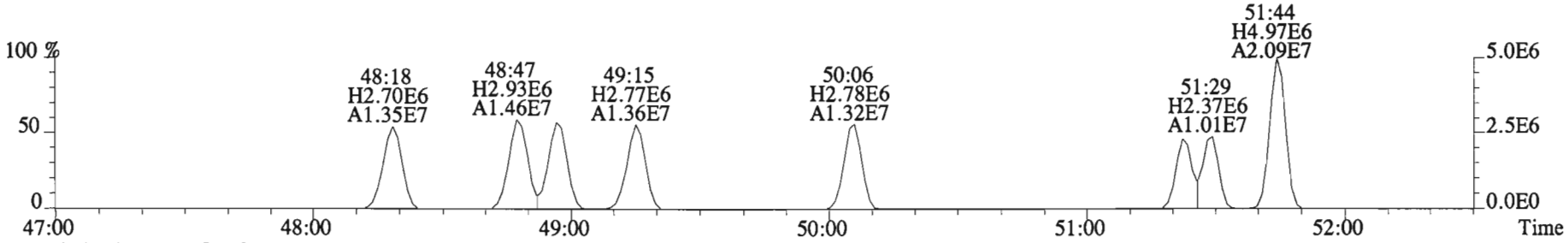
405.8428 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5464.0,0.00%,F,F)



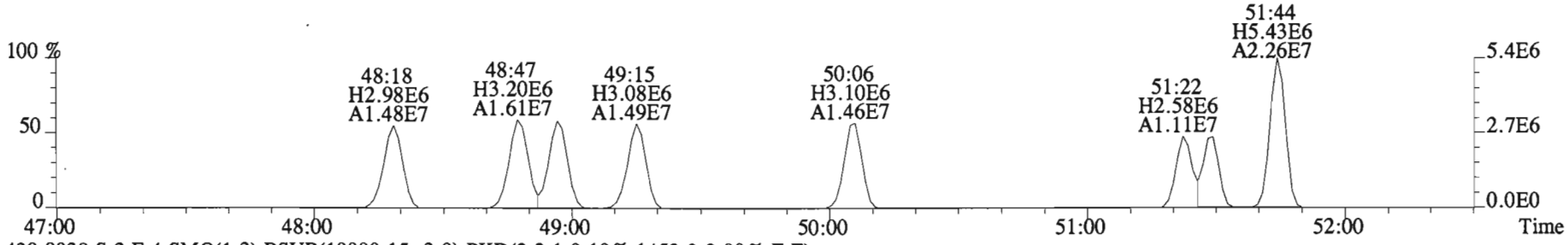
380.9760 S:2 F:4



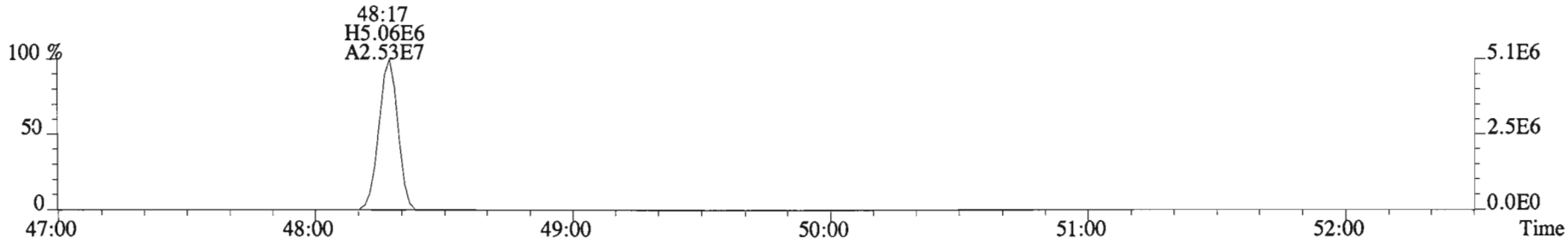
File:150205E1 #1-555 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1540.0,0.00%,F,F)



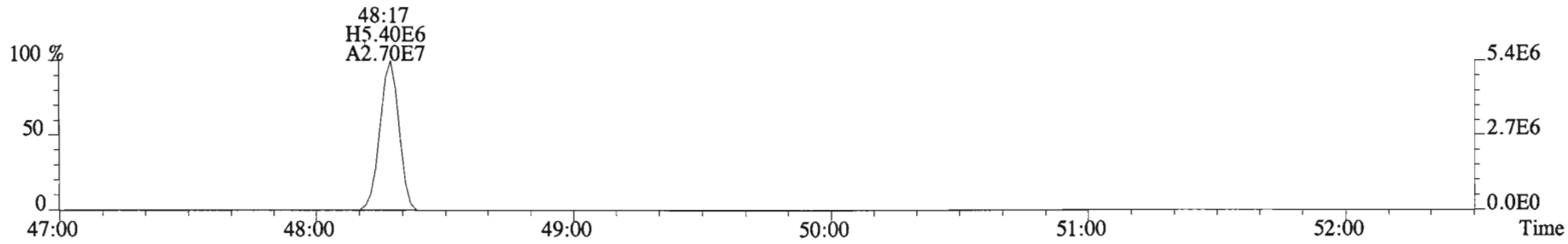
429.7606 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2236.0,0.00%,F,F)



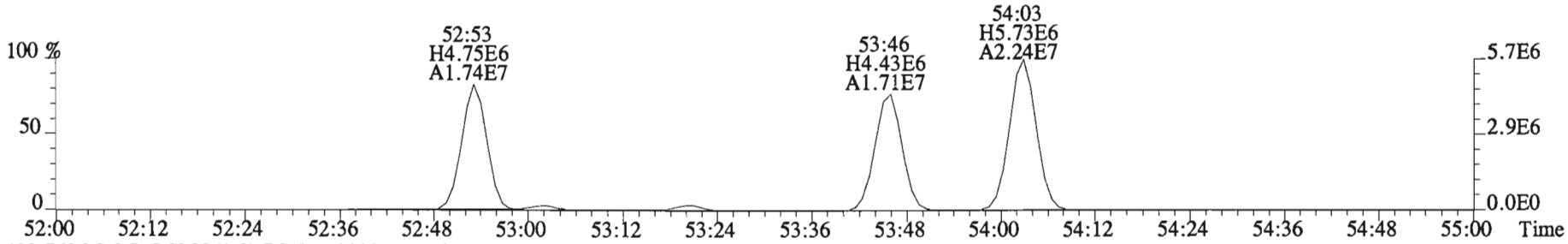
439.8038 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1452.0,0.00%,F,F)



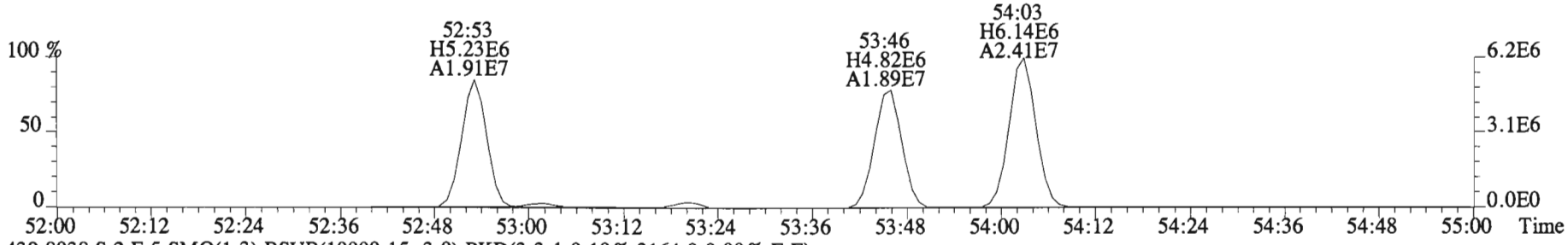
441.8008 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2096.0,0.00%,F,F)



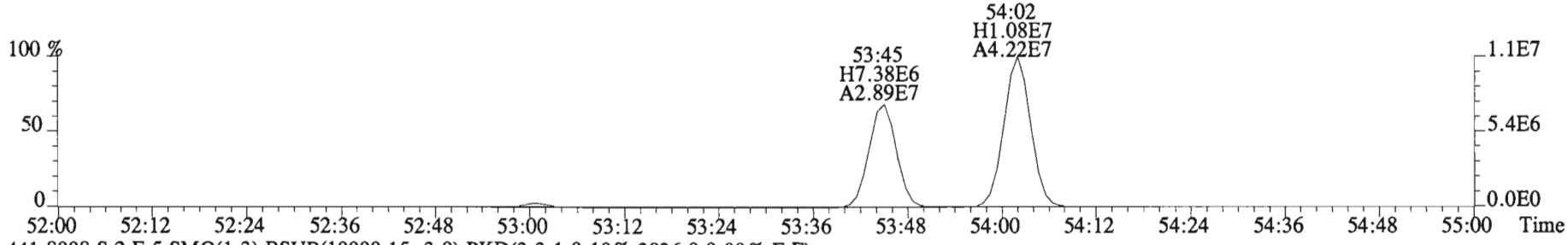
File:150205E1 #1-430 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
427.7635 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2844.0,0.00%,F,F)



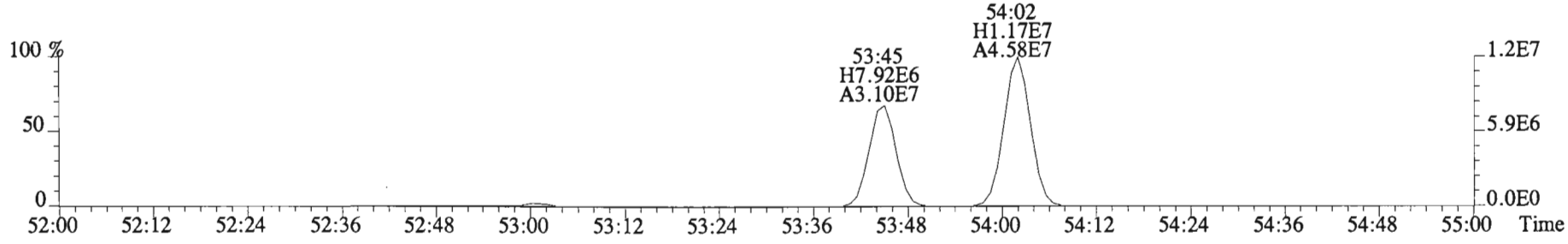
429.7606 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3104.0,0.00%,F,F)



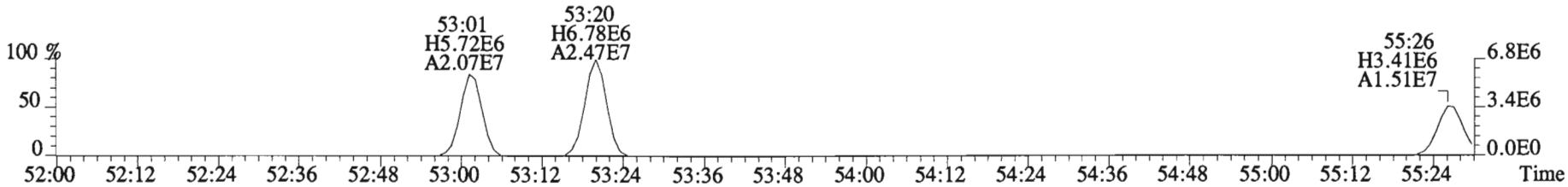
439.8038 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3164.0,0.00%,F,F)



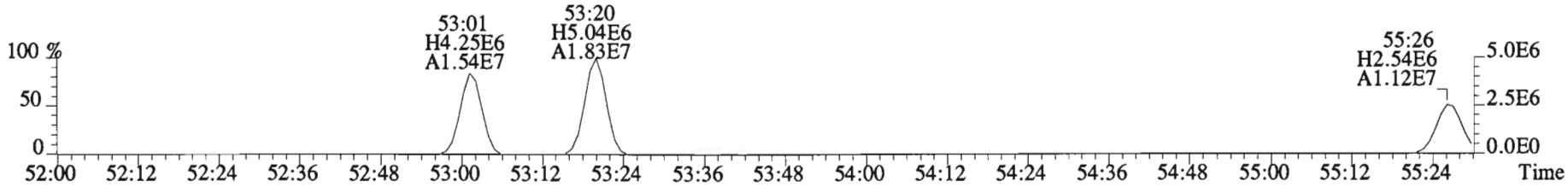
441.8008 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2836.0,0.00%,F,F)



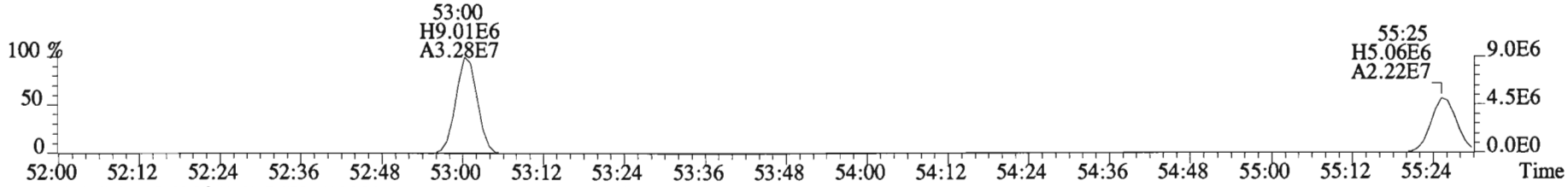
File:150205E1 #1-430 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
463.7216 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8596.0,0.00%,F,F)



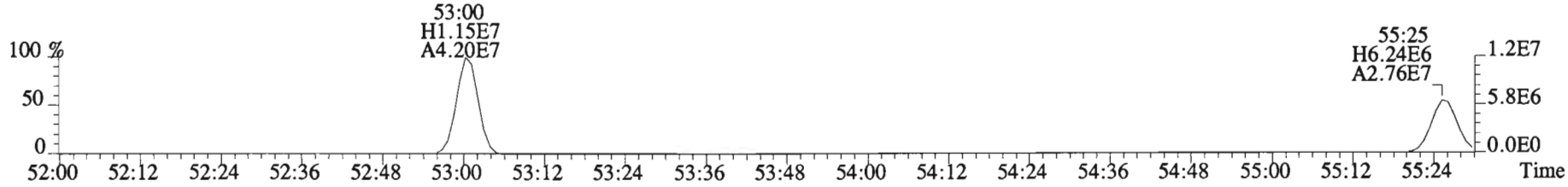
465.7186 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6760.0,0.00%,F,F)



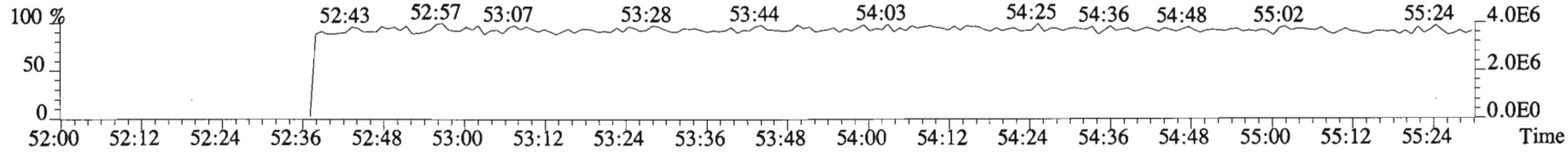
473.7648 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9620.0,0.00%,F,F)



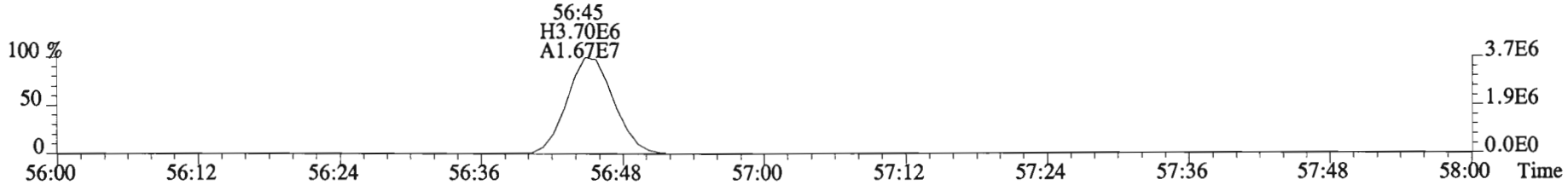
475.7619 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,13676.0,0.00%,F,F)



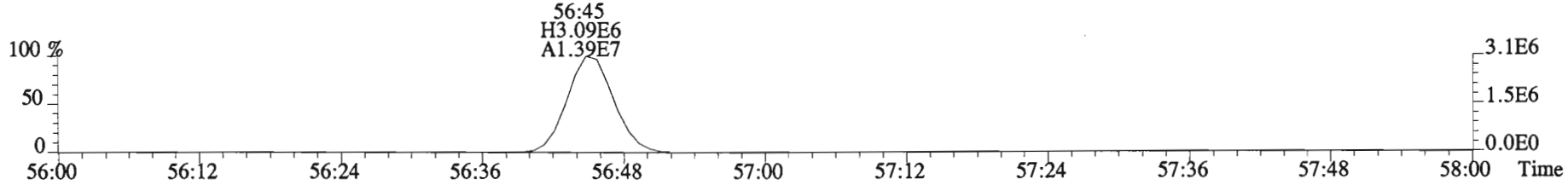
492.9697 S:2 F:5



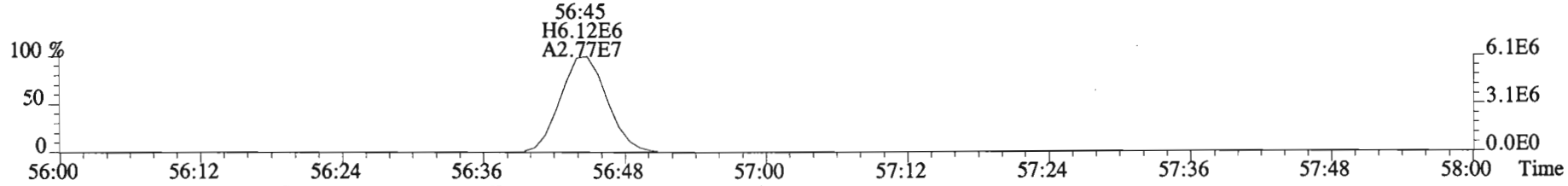
File:150205E1 #1-430 Acq: 5-FEB-2015 10:04:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0115-BS1 OPR 10 Exp:PCB_ZB1
497.6826 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1884.0,0.00%,F,F)



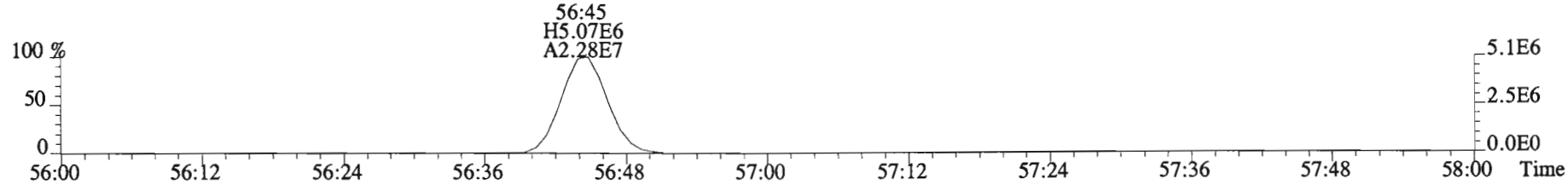
499.6797 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1712.0,0.00%,F,F)



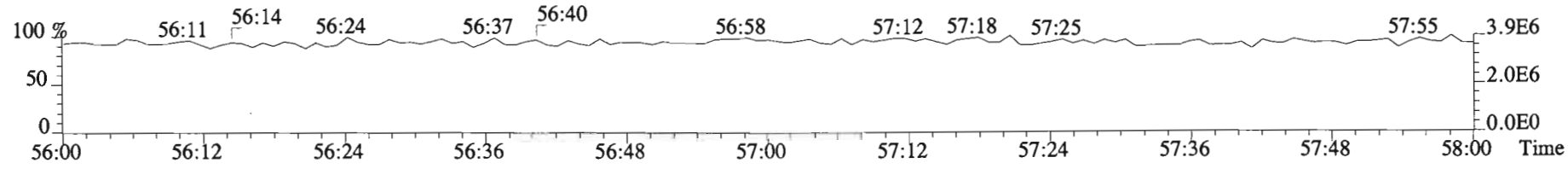
509.7229 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1856.0,0.00%,F,F)



511.7199 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1956.0,0.00%,F,F)



492.9697 S:2 F:5



Client ID: AS-CB-02-20150120-S Filename: 150205E1 S:8 Acq: 5-FEB-15 16:28:11 ConCal: ST150205E1-1
Lab ID: 1500108-01@10X RE1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.014 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	2.75e+05	2.72	y 16:10	1.19	156		*	2.5	*	1.001	0.996	1.006
Mono	PCB-2	1.10e+05	3.25	y 18:32	1.18	59.1		*	2.5	*	0.988	0.984	0.994
Mono	PCB-3	2.48e+05	2.93	y 18:46	1.43	111		*	2.5	*	1.001	0.996	1.006
Di	PCB-4/10	6.93e+05	1.33	y 20:06	1.57	467		*	2.5	*	1.001	0.997	1.007
Di	PCB-7/9	3.16e+05	1.33	y 21:54	1.21	178		*	2.5	*	0.868	0.866	0.874
Di	PCB-6	9.60e+05	1.57	y 22:33	1.30	502		*	2.5	*	0.893	0.890	0.899
Di	PCB-5/8	2.41e+06	1.60	y 22:57	1.15	1430		*	2.5	*	0.909	0.907	0.917
Di	PCB-14	*	*	n NotF	1.11	*		8600	2.5	134	*	0.949	0.959
Di	PCB-11	1.03e+07	1.59	y 25:16	1.09	6120		*	2.5	*	1.001	0.995	1.005
Di	PCB-12/13	4.21e+05	1.38	y 25:37	1.19	228		*	2.5	*	1.015	1.011	1.021
Di	PCB-15	2.50e+06	1.57	y 25:58	1.28	1260		*	2.5	*	1.029	1.023	1.033
Tri	PCB-19	4.19e+05	1.12	y 24:14	1.04	500		*	2.5	*	1.000	0.996	1.006
Tri	PCB-30	*	*	n NotF	1.71	*		831	2.5	12.6	*	1.032	1.042
Tri	PCB-18	2.85e+06	1.08	y 25:52	0.78	3060		*	2.5	*	0.953	0.949	0.959
Tri	PCB-17	1.13e+06	0.98	y 26:03	0.92	1030		*	2.5	*	0.960	0.956	0.966
Tri	PCB-24/27	8.59e+05	1.12	y 26:37	1.19	608		*	2.5	*	0.981	0.977	0.987
Tri	PCB-16/32	2.25e+06	1.01	y 27:08	0.94	2020		*	2.5	*	1.000	0.995	1.005
Tri	PCB-34	6.72e+04	1.24	n 27:55	1.14	41.8	R	*	2.5	*	0.959	0.955	0.965
Tri	PCB-23	*	*	n NotF	1.28	*		2910	2.5	42.1	*	0.959	0.969
Tri	PCB-29	*	*	n NotF	1.08	*		2910	2.5	49.9	*	0.967	0.977
Tri	PCB-26	3.67e+06	1.06	y 28:29	1.21	2150		*	2.5	*	0.979	0.974	0.984
Tri	PCB-25	1.86e+06	1.05	y 28:40	1.26	1040		*	2.5	*	0.985	0.979	0.989
Tri	PCB-31	5.45e+06	1.04	y 29:00	1.28	2990		*	2.5	*	0.997	0.992	1.002
Tri	PCB-28	6.32e+06	1.03	y 29:07	1.71	2600		*	2.5	*	1.001	0.995	1.005
Tri	PCB-20/21/33	3.11e+06	1.04	y 29:44	1.08	2030		*	2.5	*	1.022	1.017	1.027
Tri	PCB-22	1.97e+06	1.03	y 30:09	1.21	1150		*	2.5	*	1.036	1.032	1.042
Tri	PCB-36	*	*	n NotF	1.14	*		2910	2.5	52.2	*	0.928	0.938
Tri	PCB-39	*	*	n NotF	1.12	*		2910	2.5	53.5	*	0.943	0.953
Tri	PCB-38	*	*	n NotF	1.20	*		2910	2.5	49.7	*	0.966	0.976
Tri	PCB-35	3.11e+05	1.03	y 32:34	1.23	195		*	2.5	*	0.987	0.982	0.992
Tri	PCB-37	2.44e+06	1.08	y 33:00	1.23	1530		*	2.5	*	1.001	0.995	1.005
Tetra	PCB-54	5.29e+04	0.61	n 27:59	1.10	45.9	R	*	2.5	*	1.000	0.996	1.006
Tetra	PCB-50	*	*	n NotF	0.88	*		1610	2.5	38.3	*	1.037	1.047
Tetra	PCB-53	1.83e+06	0.77	y 29:48	1.06	1980		*	2.5	*	0.946	0.942	0.952
Tetra	PCB-51	6.70e+05	0.86	y 30:08	0.99	777		*	2.5	*	0.957	0.952	0.962
Tetra	PCB-45	7.11e+05	0.71	y 30:34	0.86	945		*	2.5	*	0.970	0.966	0.976
Tetra	PCB-46	4.05e+05	0.67	y 31:04	0.85	549		*	2.5	*	0.986	0.981	0.991

Integrations by:

Analyst: DMS

Date: 2/10/15

Reviewed by: [illegible] Date: 2/10/15

Client ID: AS-CB-02-20150120-S Filename: 150205E1 S:8 Acq: 5-FEB-15 16:28:11 ConCal: ST150205E1-1

Lab ID: 1500108-01@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.014 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	1.52e+07	0.80	y	31:31	1.28	13600		*	2.5	*	1.000	0.996	1.006
Tetra	PCB-73	4.25e+04	0.92	n	31:39	1.35	36.0	R	*	2.5	*	1.005	1.000	1.010
Tetra	PCB-43/49	6.84e+06	0.76	y	31:49	0.99	7890		*	2.5	*	1.010	1.005	1.015
Tetra	PCB-47	2.12e+06	0.74	y	32:02	1.06	2220		*	2.5	*	1.001	0.996	1.006
Tetra	PCB-48/75	8.29e+05	0.76	y	32:09	1.23	750		*	2.5	*	1.004	0.999	1.009
Tetra	PCB-65	*	*	n	NotF	1.22	*		1610	2.5	33.7	*	1.008	1.018
Tetra	PCB-62	*	*	n	NotF	1.22	*		1610	2.5	33.8	*	1.011	1.021
Tetra	PCB-44	5.29e+06	0.78	y	32:49	0.86	6820		*	2.5	*	1.025	1.021	1.031
Tetra	PCB-42/59	1.87e+06	0.77	y	33:03	1.14	1830		*	2.5	*	1.032	1.028	1.038
Tetra	PCB-41/64/71/72	6.07e+06	0.75	y	33:39	1.21	5580		*	2.5	*	1.051	1.046	1.056
Tetra	PCB-68	1.50e+05	1.01	n	33:53	1.35	123	R	*	2.5	*	1.058	1.054	1.064
Tetra	PCB-40	6.73e+05	0.71	y	34:06	0.70	1070		*	2.5	*	1.065	1.061	1.071
Tetra	PCB-57	1.10e+05	0.80	y	34:29	0.98	95.6		*	2.5	*	0.970	0.965	0.975
Tetra	PCB-67	2.91e+05	0.99	n	34:47	1.11	225	R	*	2.5	*	0.979	0.974	0.984
Tetra	PCB-58	4.05e+04	0.66	y	34:54	0.93	37.3		*	2.5	*	0.982	0.977	0.987
Tetra	PCB-63	2.29e+05	0.85	y	35:03	0.95	205		*	2.5	*	0.986	0.982	0.992
Tetra	PCB-74	3.11e+06	0.74	y	35:20	1.24	2130		*	2.5	*	0.994	0.990	1.000
Tetra	PCB-61/70	1.02e+07	0.75	y	35:32	0.95	9160		*	2.5	*	1.000	0.995	1.005
Tetra	PCB-76/66	6.27e+06	0.75	y	35:46	1.04	5130		*	2.5	*	1.007	1.001	1.011
Tetra	PCB-80	*	*	n	NotF	1.19	*		1610	2.5	27.8	*	0.996	1.006
Tetra	PCB-55	2.54e+05	0.78	y	36:15	1.04	204		*	2.5	*	1.008	1.005	1.015
Tetra	PCB-56/60	3.70e+06	0.74	y	36:47	1.01	3060		*	2.5	*	1.023	1.019	1.029
Tetra	PCB-79	4.14e+05	0.70	y	37:52	1.08	320		*	2.5	*	1.053	1.048	1.058
Tetra	PCB-78	*	*	n	NotF	1.27	*		1610	2.5	27.9	*	0.982	0.992
Tetra	PCB-81	1.94e+05	0.82	y	39:05	1.33	132		*	2.5	*	1.000	0.995	1.005
Tetra	PCB-77	1.04e+06	0.77	y	39:41	1.10	869		*	2.5	*	1.000	0.995	1.005
Penta	PCB-104	*	*	n	NotF	1.18	*		1490	2.5	61.0	*	0.996	1.006
Penta	PCB-96	1.36e+05	1.74	y	33:56	1.14	183		*	2.5	*	1.039	1.034	1.044
Penta	PCB-103	2.08e+05	1.38	y	34:29	0.96	333		*	2.5	*	1.056	1.050	1.060
Penta	PCB-100	1.21e+05	1.15	n	34:50	0.94	197	R	*	2.5	*	1.066	1.061	1.071
Penta	PCB-94	7.33e+04	1.63	y	35:17	1.06	147		*	2.5	*	0.985	0.980	0.990
Penta	PCB-95/98/102	1.43e+07	1.65	y	35:50	1.22	24700		*	2.5	*	1.000	0.995	1.005
Penta	PCB-93	*	*	n	NotF	0.84	*		1490	2.5	136	*	0.997	1.007
Penta	PCB-88/91	2.08e+06	1.57	y	36:14	1.12	3960		*	2.5	*	1.012	1.005	1.015
Penta	PCB-121	*	*	n	NotF	1.62	*		1490	2.5	71.0	*	1.009	1.019
Penta	PCB-84/92	6.67e+06	1.62	y	37:09	1.05	12200		*	2.5	*	0.990	0.985	0.995
Penta	PCB-89	1.21e+05	1.45	y	37:20	1.13	204		*	2.5	*	0.995	0.991	1.001

Analyst: DMS

Date: 2/10/15

Client ID: AS-CB-02-20150120-S Filename: 150205E1 S:8 Acq: 5-FEB-15 16:28:11 ConCal: ST150205E1-1 Page 1 of

Lab ID: 1500108-01@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.014 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	1.87e+07	1.67	y 37:32	1.10	32400		*	2.5	*	1.000	0.995	1.005
Penta	PCB-113	8.09e+04	1.66	y 37:44	1.41	109		*	2.5	*	1.006	1.002	1.012
Penta	PCB-99	6.56e+06	1.63	y 37:52	1.34	9360		*	2.5	*	1.009	1.004	1.014
Penta	PCB-119	6.05e+05	1.52	y 38:19	1.53	805		*	2.5	*	0.987	0.982	0.992
Penta	PCB-108/112	7.90e+05	1.57	y 38:29	1.28	1260		*	2.5	*	0.992	0.986	0.996
Penta	PCB-83	*	*	n NotF┐	1.52	*		1490	2.5	72.7	*	0.990	1.000
Penta	PCB-97	4.28e+06	1.60	y 38:50	1.18	7390		*	2.5	*	1.001	0.995	1.005
Penta	PCB-86	*	*	n NotF┐	0.84	*		1490	2.5	131	*	0.999	1.009
Penta	PCB-87/117/125	6.57e+06	1.58	y 39:07	1.55	8650		*	2.5	*	1.008	1.002	1.012
Penta	PCB-111/115	2.46e+05	1.62	y 39:16	1.63	308		*	2.5	*	1.012	1.006	1.016
Penta	PCB-85/116	2.20e+06	1.55	y 39:23	1.30	3450		*	2.5	*	1.015	1.010	1.020
Penta	PCB-120	1.27e+05	1.36	y 39:35	1.68	154		*	2.5	*	1.020	1.016	1.026
Penta	PCB-110	2.45e+07	1.62	y 39:47	1.56	32100		*	2.5	*	1.025	1.020	1.030
Penta	PCB-82	1.38e+06	1.50	y 40:24	0.76	2950		*	2.5	*	0.976	0.971	0.981
Penta	PCB-124	9.77e+05	1.65	y 41:05	1.47	1070		*	2.5	*	0.993	0.988	0.998
Penta	PCB-107/109	1.21e+06	1.75	y 41:15	1.32	1480		*	2.5	*	0.997	0.991	1.001
Penta	PCB-123	2.12e+05	1.60	y 41:23	1.17	293		*	2.5	*	1.000	0.996	1.006
Penta	PCB-106/118	1.68e+07	1.57	y 41:36	1.17	22900		*	2.5	*	1.001	0.996	1.006
Penta	PCB-114	5.57e+05	1.53	y 42:15	1.30	499		*	2.5	*	1.000	0.995	1.005
Penta	PCB-122	3.15e+05	1.73	y 42:24	1.12	327		*	2.5	*	1.004	0.999	1.009
Penta	PCB-105	9.47e+06	1.63	y 43:07	1.30	8450		*	2.5	*	1.001	0.995	1.005
Penta	PCB-127	*	*	n NotF┐	1.33	*		4470	2.5	133	*	0.996	1.006
Penta	PCB-126	3.03e+05	1.78	y 45:22	1.18	318		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-155	*	*	n NotF┐	1.11	*		1330	2.5	80.7	*	0.966	1.006
Hexa	PCB-150	6.70e+04	1.09	y 38:20	1.00	144		*	2.5	*	1.035	1.030	1.040
Hexa	PCB-152	*	*	n NotF┐	1.12	*		1330	2.5	80.7	*	1.043	1.053
Hexa	PCB-145	*	*	n NotF┐	1.20	*		1330	2.5	74.9	*	1.055	1.065
Hexa	PCB-136	3.50e+06	1.28	y 39:34	1.18	6350		*	2.5	*	1.068	1.064	1.074
Hexa	PCB-148	*	*	n NotF┐	0.74	*		1330	2.5	121	*	1.066	1.076
Hexa	PCB-154	2.37e+05	1.50	n 40:11	0.86	591	R	*	2.5	*	1.085	1.080	1.090
Hexa	PCB-151	4.94e+06	1.30	y 40:49	0.75	14200		*	2.5	*	1.102	1.097	1.107
Hexa	PCB-135	2.63e+06	1.22	y 41:03	0.79	7110		*	2.5	*	1.108	1.103	1.113
Hexa	PCB-144	7.92e+05	1.23	y 41:10	0.76	2230		*	2.5	*	1.111	1.105	1.117
Hexa	PCB-147	2.40e+05	1.28	y 41:17	0.82	626		*	2.5	*	1.114	1.109	1.121
Hexa	PCB-139/149	1.68e+07	1.35	y 41:31	0.76	47200		*	2.5	*	1.121	1.116	1.128
Hexa	PCB-140	8.19e+04	1.36	y 41:44	0.72	243		*	2.5	*	1.126	1.121	1.133
Hexa	PCB-134/143	1.66e+06	1.19	y 42:11	0.92	2440		*	2.5	*	0.975	0.970	0.980

Analyst: DMS

Date: 2/10/15

Client ID: AS-CB-02-20150120-S Filename: 150205E1 S:8 Acq: 5-FEB-15 16:28:11 ConCal: ST150205E1-1

Lab ID: 1500108-01@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.014 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	1.00e+06	1.20	y	42:27	0.82	1650		*	2.5	*	0.982	0.977	0.987
Hexa	PCB-131	*	*	n	NotF	0.91	*		2410	2.5	113	*	0.981	0.991
Hexa	PCB-146/165	6.39e+06	1.20	y	42:52	1.25	6900		*	2.5	*	0.991	0.986	0.996
Hexa	PCB-132/161	1.12e+07	1.23	y	43:08	1.10	13600		*	2.5	*	0.997	0.992	1.002
Hexa	PCB-153	4.20e+07	1.23	y	43:16	1.25	45300		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-168	*	*	n	NotF	1.45	*		2410	2.5	70.6	*	1.001	1.011
Hexa	PCB-141	8.48e+06	1.22	y	44:01	1.09	11400		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-137	1.33e+06	1.17	y	44:24	1.06	1820		*	2.5	*	1.009	1.004	1.014
Hexa	PCB-130	1.67e+06	1.28	y	44:30	0.96	2520		*	2.5	*	1.011	1.006	1.016
Hexa	PCB-138/163/164	4.34e+07	1.24	y	44:52	1.29	46900		*	2.5	*	1.001	0.996	1.006
Hexa	PCB-158/160	4.80e+06	1.17	y	45:06	1.34	5000		*	2.5	*	1.006	1.001	1.011
Hexa	PCB-129	1.26e+06	1.16	y	45:21	0.85	2070		*	2.5	*	1.011	1.007	1.017
Hexa	PCB-166	1.02e+05	1.16	y	45:50	1.19	106		*	2.5	*	0.993	0.988	0.998
Hexa	PCB-159	*	*	n	NotF	1.11	*		2410	2.5	88.0	*	0.996	1.006
Hexa	PCB-128/162	4.95e+06	1.20	y	46:26	1.05	5810		*	2.5	*	1.006	1.002	1.012
Hexa	PCB-167	1.56e+06	1.18	y	46:50	1.20	1510		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-156	3.43e+06	1.20	y	48:09	1.14	3790		*	2.5	*	1.001	0.996	1.006
Hexa	PCB-157	7.15e+05	1.30	y	48:24	1.16	717		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-169	*	*	n	NotF	1.12	*		2410	2.5	90.2	*	0.995	1.005
Hepta	PCB-188	*	*	n	NotF	1.58	*		1220	2.5	28.3	*	0.996	1.006
Hepta	PCB-184	*	*	n	NotF	1.63	*		1220	2.5	27.5	*	1.006	1.016
Hepta	PCB-179	5.98e+06	1.10	y	44:07	1.30	8480		*	2.5	*	1.029	1.024	1.034
Hepta	PCB-176	1.85e+06	1.11	y	44:35	1.48	2320		*	2.5	*	1.040	1.035	1.045
Hepta	PCB-186	*	*	n	NotF	1.45	*		1220	2.5	30.8	*	1.050	1.060
Hepta	PCB-178	2.24e+06	1.06	y	45:42	1.03	4010		*	2.5	*	1.066	1.061	1.071
Hepta	PCB-175	3.81e+05	1.14	y	46:01	1.01	695		*	2.5	*	1.073	1.069	1.079
Hepta	PCB-182/187	1.37e+07	1.08	y	46:12	1.25	20200		*	2.5	*	1.077	1.073	1.083
Hepta	PCB-183	6.13e+06	1.05	y	46:33	1.21	9380		*	2.5	*	1.086	1.081	1.091
Hepta	PCB-185	1.26e+06	1.04	y	47:12	1.80	1880		*	2.5	*	0.955	0.951	0.961
Hepta	PCB-174	1.07e+07	1.04	y	47:34	1.38	20700		*	2.5	*	0.963	0.958	0.968
Hepta	PCB-181	*	*	n	NotF	1.38	*		1220	2.5	44.6	*	0.960	0.970
Hepta	PCB-177	5.64e+06	1.05	y	47:50	1.26	12000		*	2.5	*	0.968	0.963	0.973
Hepta	PCB-171	2.51e+06	0.99	y	48:07	1.58	4240		*	2.5	*	0.974	0.970	0.980
Hepta	PCB-173	1.88e+05	1.09	y	48:34	1.11	454		*	2.5	*	0.983	0.978	0.988
Hepta	PCB-172	1.60e+06	1.07	y	49:02	1.63	2610		*	2.5	*	0.992	0.987	0.997
Hepta	PCB-192	*	*	n	NotF	1.74	*		1220	2.5	35.3	*	0.991	1.001
Hepta	PCB-180	2.30e+07	1.05	y	49:25	1.34	45700		*	2.5	*	1.000	0.995	1.005

Analyst: DMS

Date: 2/10/15

Client ID: AS-CB-02-20150120-S Filename: 150205E1 S:8 Acq: 5-FEB-15 16:28:11 ConCal: ST150205E1-1
Lab ID: 1500108-01@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.014 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	1.31e+06	1.07	y	49:36	1.72	2040		*	2.5	*	1.004	0.999	1.009
Hepta	PCB-191	4.99e+05	0.97	y	49:51	1.69	788		*	2.5	*	1.009	1.004	1.014
Hepta	PCB-170	8.07e+06	1.00	y	50:50	1.60	16800		*	2.5	*	1.000	0.995	1.005
Hepta	PCB-190	2.12e+06	1.05	y	51:01	2.21	3200		*	2.5	*	1.004	0.998	1.008
Hepta	PCB-189	3.41e+05	0.98	y	52:18	1.55	645		*	2.5	*	1.000	0.995	1.005
Octa	PCB-202	8.43e+05	0.94	y	48:20	1.08	1820		*	2.5	*	1.000	0.995	1.005
Octa	PCB-201	5.72e+05	0.77	y	48:49	1.15	1160		*	2.5	*	1.010	1.005	1.015
Octa	PCB-204	*	*	n	NotF╗	1.14	*		426	2.5	23.9	*	1.008	1.018
Octa	PCB-197	1.41e+05	0.94	y	49:18	1.07	306		*	2.5	*	1.020	1.015	1.025
Octa	PCB-200	5.07e+05	0.97	y	50:08	1.06	1120		*	2.5	*	1.038	1.032	1.044
Octa	PCB-198	1.37e+05	0.78	y	51:24	0.76	423		*	2.5	*	1.064	1.059	1.069
Octa	PCB-199	3.15e+06	0.94	y	51:31	0.80	9240		*	2.5	*	1.066	1.061	1.071
Octa	PCB-196/203	3.46e+06	0.92	y	51:47	0.80	10100		*	2.5	*	1.072	1.066	1.076
Octa	PCB-195	2.24e+06	0.89	y	52:55	1.23	3700		*	2.5	*	0.984	0.979	0.989
Octa	PCB-194	5.46e+06	0.94	y	53:49	1.21	9130		*	2.5	*	1.000	0.995	1.005
Octa	PCB-205	3.26e+05	1.01	y	54:06	1.54	429		*	2.5	*	1.006	1.001	1.011
Nona	PCB-208	4.80e+05	1.23	y	53:04	0.93	859		*	2.5	*	1.000	0.995	1.005
Nona	PCB-207	2.24e+05	1.19	y	53:22	1.08	344		*	2.5	*	1.006	1.001	1.011
Nona	PCB-206	1.30e+06	1.36	y	55:31	1.02	3360		*	2.5	*	1.000	0.995	1.005
Deca	PCB-209	2.05e+05	1.20	y	56:49	1.17	460		*	2.5	*	1.000	0.995	1.005

Analyst: DMS

Date: 2/10/15

Client ID: AS-CB-02-20150120-S Filename: 150205E1 S:8 Acq: 5-FEB-15 16:28:11 ConCal: ST150205E1-1
Lab ID: 1500108-01@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.0140 EndCAL: NA

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	6.33e+05	2.72 y	16:10	1.27	325.233	
Total Di-PCB	1.76e+07	1.33 y	20:06	1.21	10189.7	
Total Tri-PCB	7.51e+06	1.12 y	24:14	1.10	7213.27	
Total Tri-PCB	2.51e+07	1.06 y	28:29	1.21	13688.0	Sum:20901.3
Total Tetra-PCB	6.81e+07	0.77 y	29:48	1.09	65335.2	
Total Penta-PCB	1.09e+08	1.74 y	33:56	1.18	166445	
Total Penta-PCB	1.06e+07	1.53 y	42:15	1.25	9590.03	Sum:176035
Total Hexa-PCB	2.91e+07	1.09 y	38:20	0.90	78105.6	
Total Hexa-PCB	1.34e+08	1.19 y	42:11	1.11	151566	Sum:229671
Total Hepta-PCB	8.75e+07	1.10 y	44:07	1.42	156253	
Total Octa-PCB	8.81e+06	0.94 y	48:20	0.96	24156.4	
Total Octa-PCB	8.03e+06	0.89 y	52:55	1.33	13267.9	Sum:37424.3
Total Nona-PCB	2.01e+06	1.23 y	53:04	1.01	4565.67	
Total Deca-PCB	2.05e+05	1.20 y	56:49	1.17	459.791	

Total PCB Conc:~~702420~~.958170
701000

Integrations
by
Analyst: DMS

Date: 2/10/15

Client ID: AS-CB-02-20150120-S Filename: 150205E1 S:8 Acq: 5-FEB-15 16:28:11 ConCal: ST150205E1-1

Lab ID: 1500108-01@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol:2.0140 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.47e+07	3.12 y	0.87	16:09	0.622	0.629	0.635	9150	92.1
13C-PCB-3	1.56e+07	3.20 y	0.91	18:45	0.723	0.725	0.733	9280	93.4
13C-PCB-4	9.39e+06	1.64 y	0.59	20:05	0.774	0.775	0.783	8670	87.3
13C-PCB-9	1.46e+07	1.56 y	0.90	21:52	0.843	0.842	0.850	8800	88.7
13C-PCB-11	1.53e+07	1.60 y	0.94	25:15	0.973	0.968	0.978	8860	89.2
13C-PCB-19	7.97e+06	1.11 y	0.53	24:13	0.934	0.930	0.940	8120	81.8
13C-PCB-28	1.41e+07	1.07 y	0.93	29:06	1.004	0.999	1.009	9480	95.5
13C-PCB-32	1.18e+07	1.11 y	0.80	27:08	1.046	1.040	1.050	8050	81.0
13C-PCB-37	1.29e+07	1.10 y	0.84	32:59	1.138	1.131	1.143	9640	97.0
13C-PCB-47	8.94e+06	0.83 y	0.81	32:01	0.870	0.866	0.874	8400	84.6
13C-PCB-52	8.65e+06	0.76 y	0.77	31:30	0.857	0.853	0.861	8560	86.2
13C-PCB-54	1.04e+07	0.79 y	0.97	27:58	0.761	0.758	0.766	8150	82.1
13C-PCB-70	1.16e+07	0.79 y	1.00	35:32	0.966	0.961	0.971	8890	89.5
13C-PCB-77	1.08e+07	0.77 y	0.94	39:40	1.078	1.073	1.083	8730	87.9
13C-PCB-80	1.19e+07	0.81 y	1.03	35:57	0.978	0.972	0.982	8800	88.6
13C-PCB-81	1.09e+07	0.77 y	0.92	39:04	1.062	1.057	1.067	9050	91.2
13C-PCB-95	4.68e+06	1.72 y	0.74	35:49	0.912	0.908	0.918	8580	86.4
13C-PCB-97	4.87e+06	1.67 y	0.70	38:49	0.989	0.984	0.994	9390	94.6
13C-PCB-101	5.21e+06	1.65 y	0.78	37:31	0.956	0.951	0.961	9040	91.0
13C-PCB-104	6.49e+06	1.53 y	1.00	32:40	0.832	0.828	0.836	8810	88.7
13C-PCB-105	8.58e+06	1.47 y	1.37	43:06	0.929	0.924	0.934	8570	86.3
13C-PCB-114	8.55e+06	1.62 y	1.36	42:14	0.910	0.905	0.915	8560	86.2
13C-PCB-118	6.22e+06	1.54 y	0.96	41:35	1.059	1.054	1.064	8810	88.7
13C-PCB-123	6.14e+06	1.52 y	0.89	41:23	1.054	1.050	1.060	9340	94.0
13C-PCB-126	8.01e+06	1.62 y	1.31	45:21	0.977	0.972	0.982	8360	84.2
13C-PCB-127	9.14e+06	1.55 y	1.47	43:26	0.936	0.931	0.941	8460	85.2
13C-PCB-138	7.10e+06	1.29 y	1.10	44:50	0.966	0.961	0.971	8810	88.7
13C-PCB-141	6.83e+06	1.26 y	1.07	43:60	0.948	0.943	0.953	8670	87.4
13C-PCB-153	7.38e+06	1.30 y	1.15	43:15	0.932	0.927	0.937	8760	88.4
13C-PCB-155	4.64e+06	1.33 y	0.84	37:03	0.944	0.939	0.949	7510	75.6
13C-PCB-156	7.91e+06	1.31 y	1.30	48:07	1.037	1.032	1.042	8320	83.8
13C-PCB-157	8.51e+06	1.29 y	1.36	48:24	1.043	1.038	1.048	8550	86.1
13C-PCB-159	8.08e+06	1.29 y	1.25	46:08	0.994	0.989	0.999	8840	89.0
13C-PCB-167	8.57e+06	1.23 y	1.35	46:50	1.009	1.004	1.014	8650	87.1
13C-PCB-169	7.54e+06	1.36 y	1.29	50:30	1.088	1.083	1.093	8000	80.6
13C-PCB-170	2.98e+06	0.46 y	0.54	50:50	1.096	1.089	1.101	7480	75.4
13C-PCB-180	3.71e+06	0.45 y	0.68	49:25	1.065	1.060	1.070	7410	74.6
13C-PCB-188	5.37e+06	0.47 y	0.92	42:53	0.924	0.919	0.929	7990	80.4
13C-PCB-189	3.39e+06	0.44 y	0.72	52:18	1.127	1.120	1.132	6450	65.0
13C-PCB-194	4.90e+06	0.91 y	0.80	53:48	0.995	0.990	1.000	9230	93.0
13C-PCB-202	4.25e+06	0.98 y	0.84	48:19	1.041	1.036	1.046	6910	69.6
13C-PCB-206	3.75e+06	0.79 y	0.65	55:30	1.026	1.021	1.031	8680	87.4
13C-PCB-208	5.97e+06	0.78 y	1.08	53:03	0.980	0.976	0.986	8290	83.5
13C-PCB-209	3.78e+06	1.14 y	0.61	56:48	1.050	1.045	1.055	9310	93.7

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.25e+07	0.80 y	1.02	37:51	1.029	1.023	1.034	9400	94.6
13C-PCB-178	3.80e+06	0.44 y	0.61	45:41	0.984	0.979	0.990	8450	85.1

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.25e+07	0.80 y	1.10	37:51	0.969	0.964	0.974	10300	104
13C-PCB-178	3.80e+06	0.44 y	0.90	45:41	0.924	0.920	0.930	11300	114

* = OK within 1668 METHOD limits.

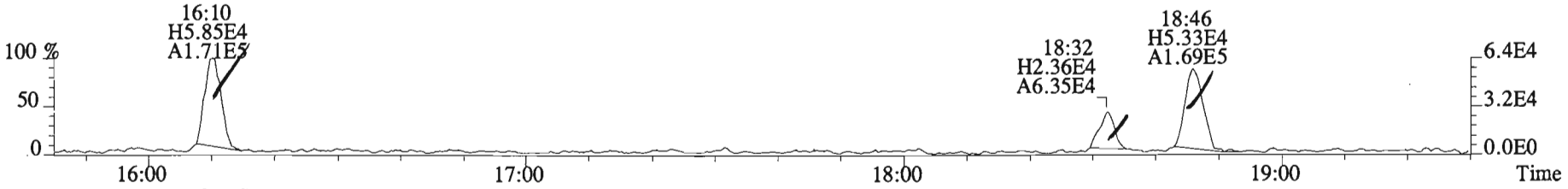
RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.83e+07	1.57	y	1.00	25:57	9930
13C-PCB-31	1.58e+07	1.11	y	1.00	28:59	9930
13C-PCB-60	1.30e+07	0.81	y	1.00	36:47	9930
13C-PCB-111	7.30e+06	1.67	y	1.00	39:16	9930
13C-PCB-128	7.28e+06	1.25	y	1.00	46:24	9930
13C-PCB-205	6.61e+06	0.89	y	1.00	54:06	9930

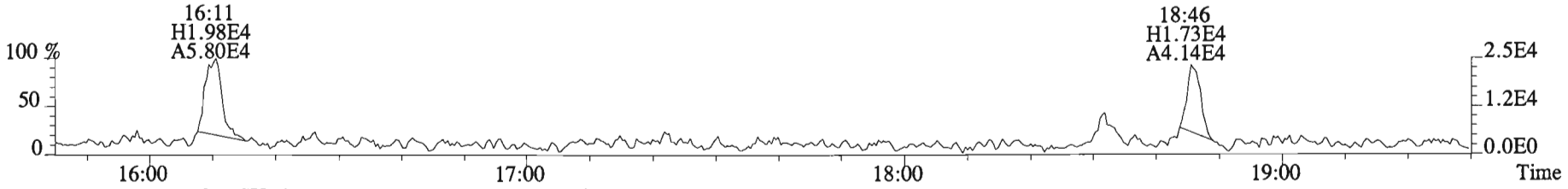
Analyst: DMS

Date: 2/9/15

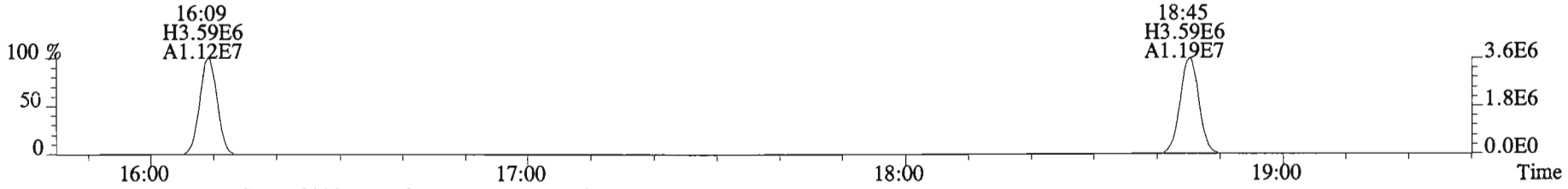
File:150205E1 #1-728 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
188.0393 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3096.0,0.00%,F,F)



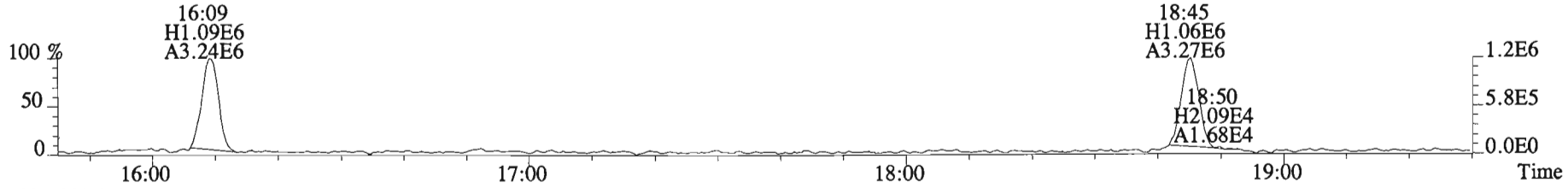
190.0363 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3596.0,0.00%,F,F)



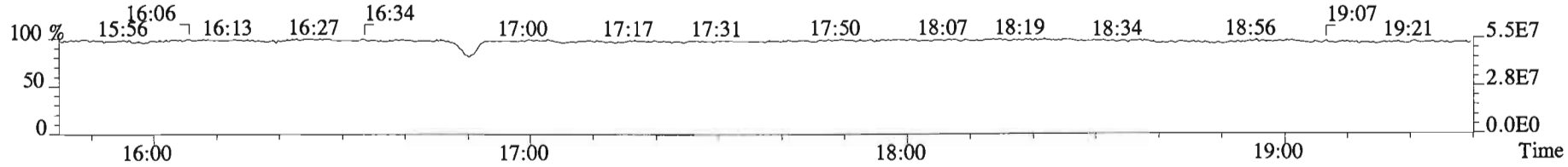
200.0795 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4572.0,0.00%,F,F)



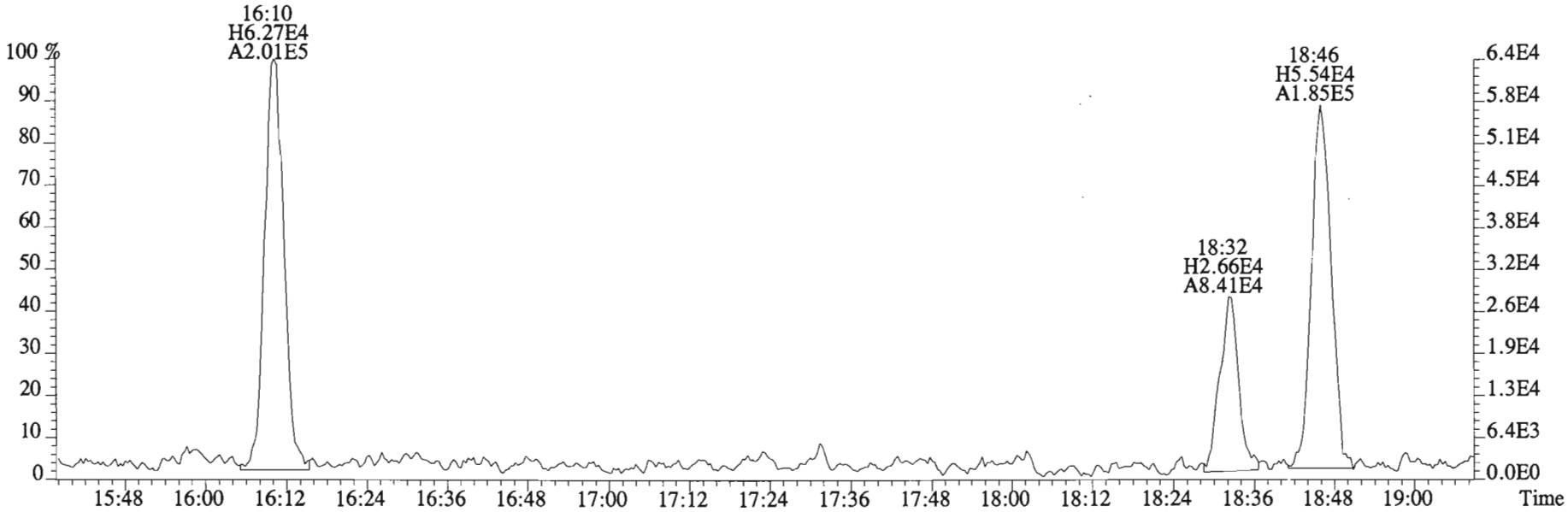
202.0766 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45984.0,0.00%,F,F)



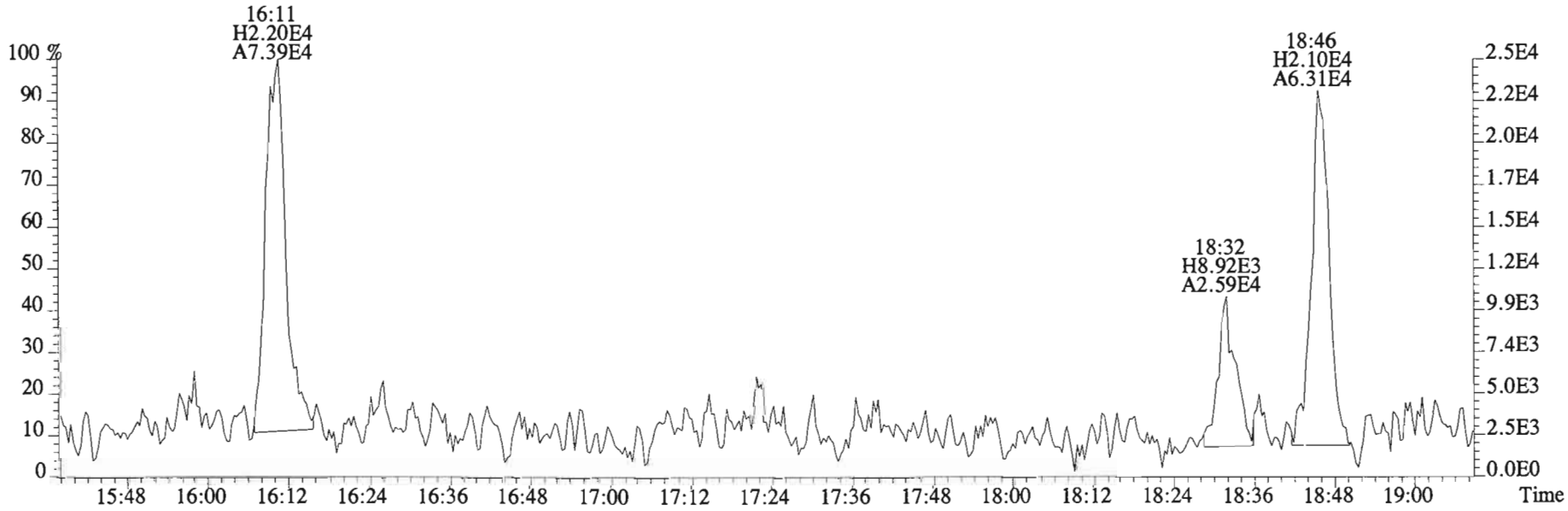
180.9880 S:8



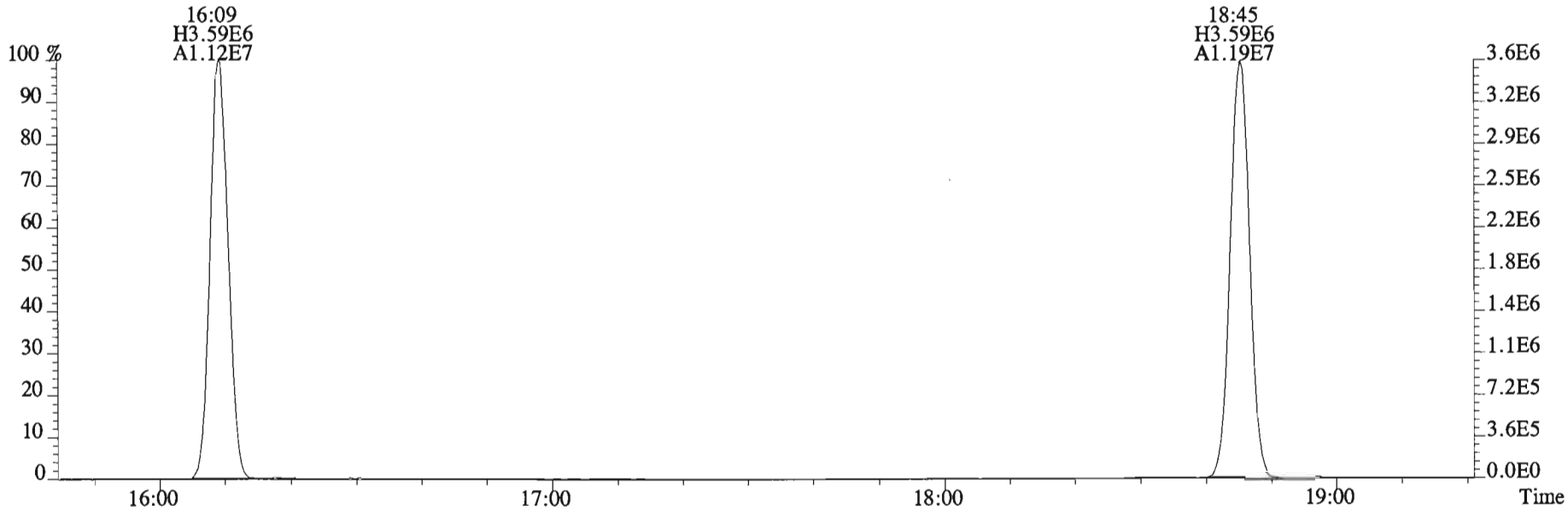
File:150205E1 #1-728 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
188.0393 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3096.0,0.00%,F,F)



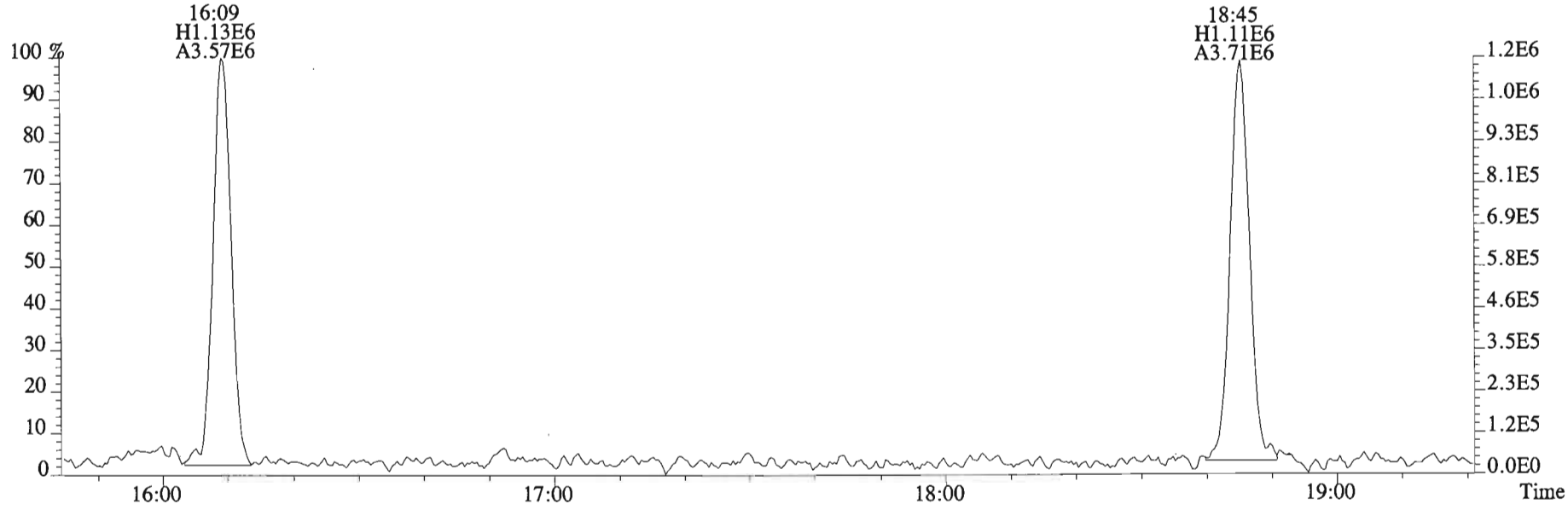
190.0363 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3596.0,0.00%,F,F)



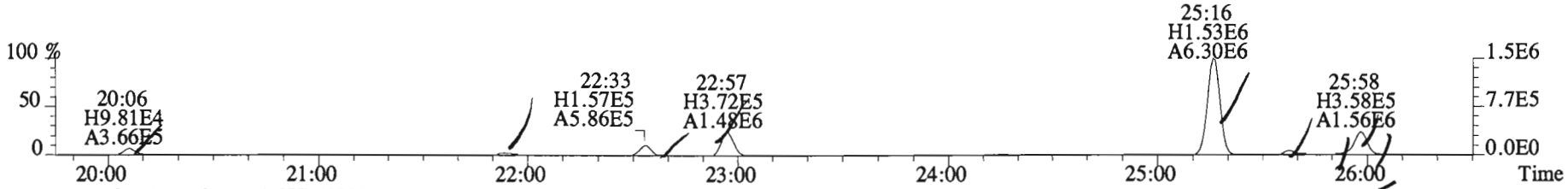
File:150205E1 #1-728 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
200.0795 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4572.0,0.00%,F,F)



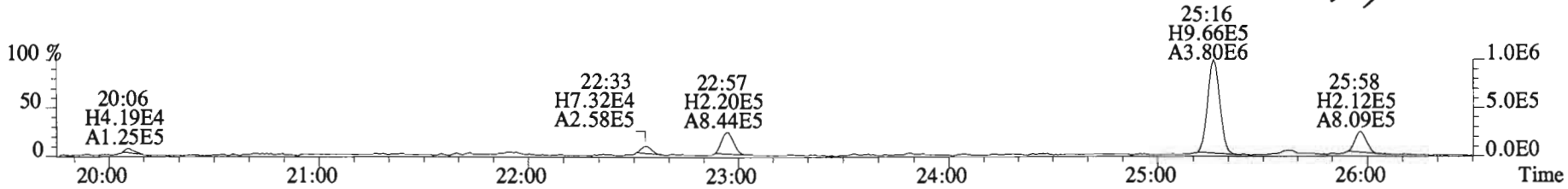
202.0766 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45984.0,0.00%,F,F)



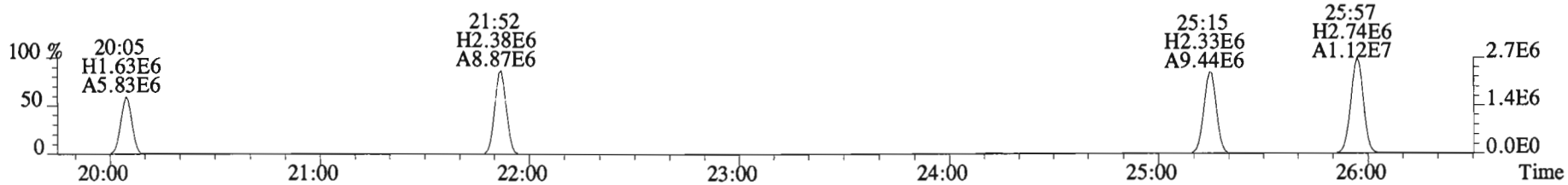
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3384.0,0.00%,F,F)



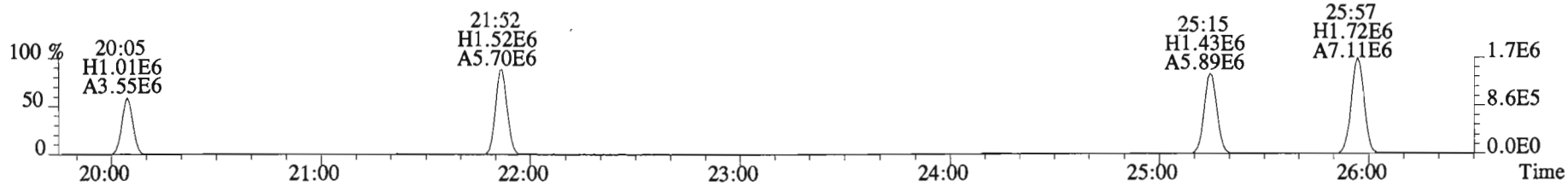
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24124.0,0.00%,F,F)



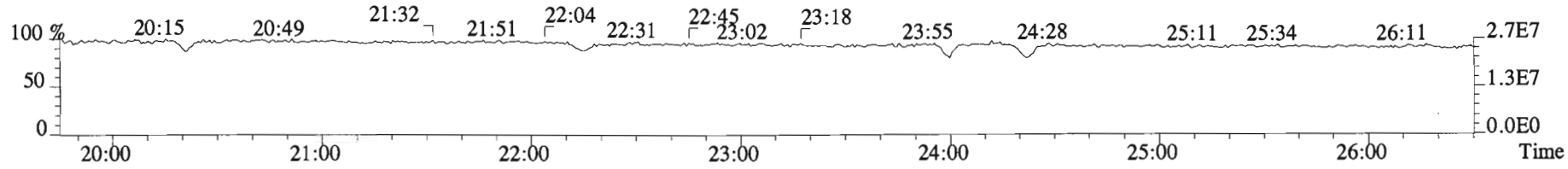
234.0406 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4188.0,0.00%,F,F)



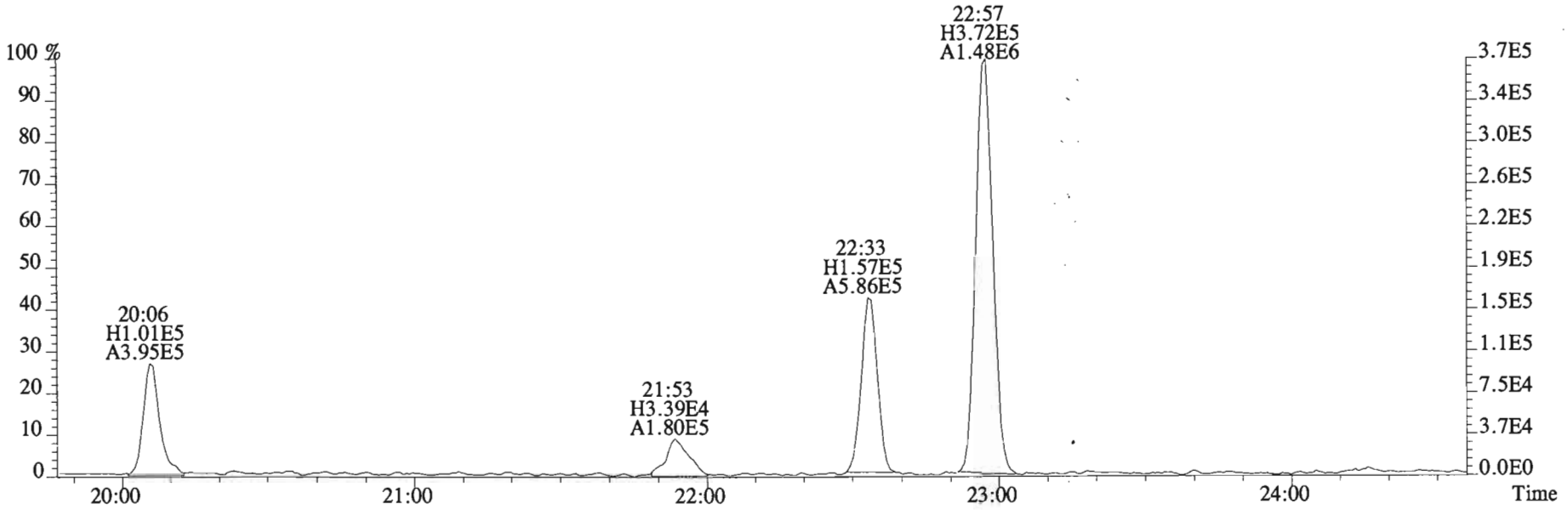
236.0376 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4312.0,0.00%,F,F)



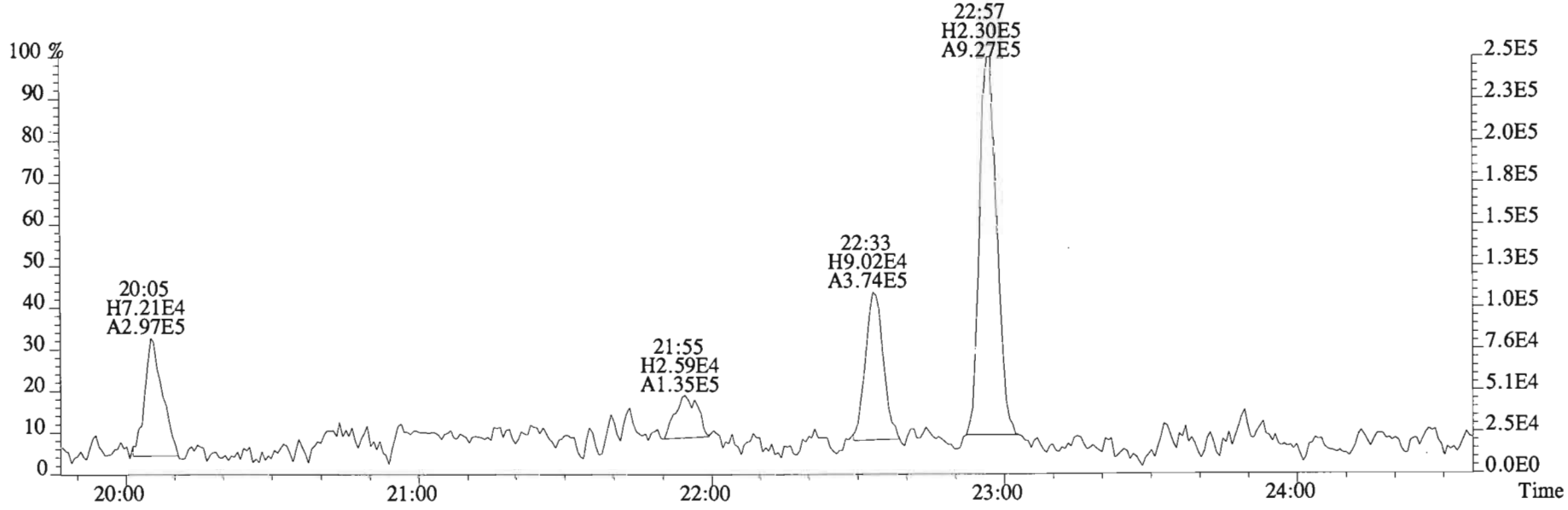
230.9856 S:8 F:2



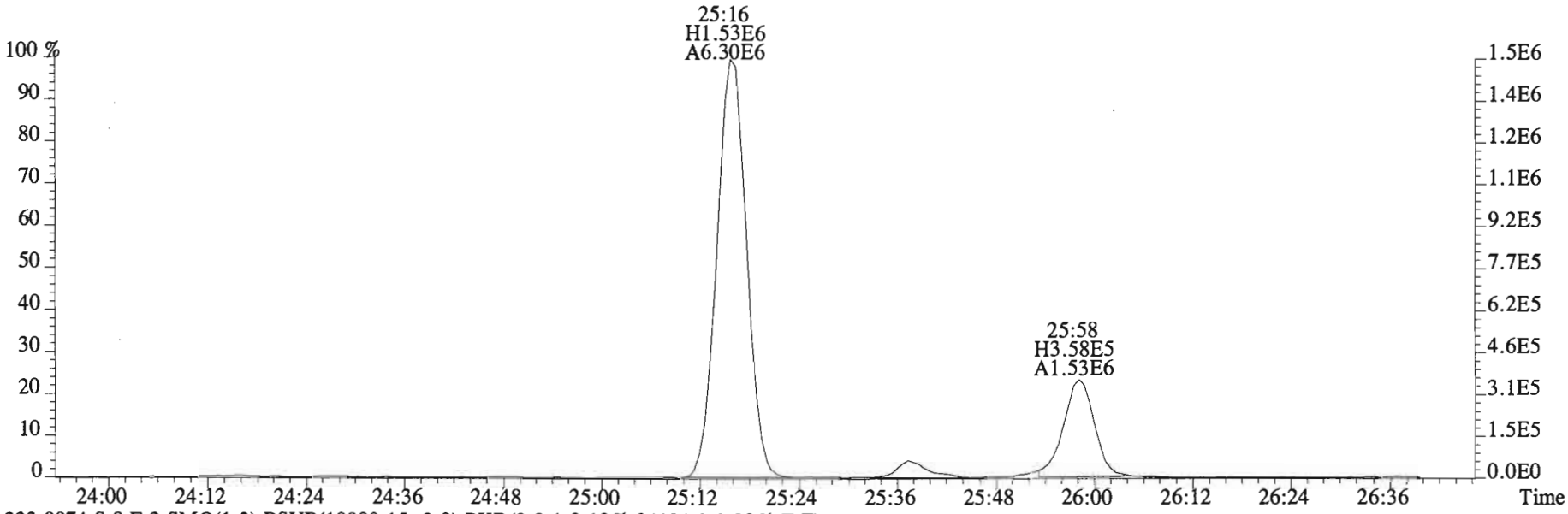
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0)



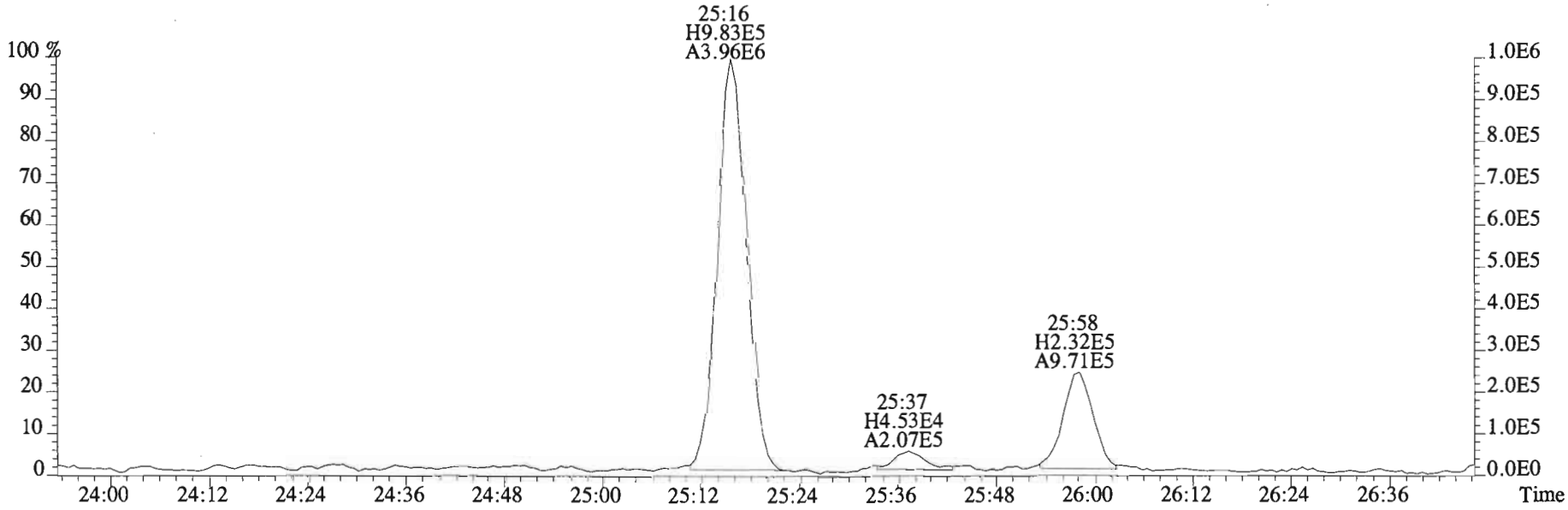
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24124.0,0.00%,F,F)



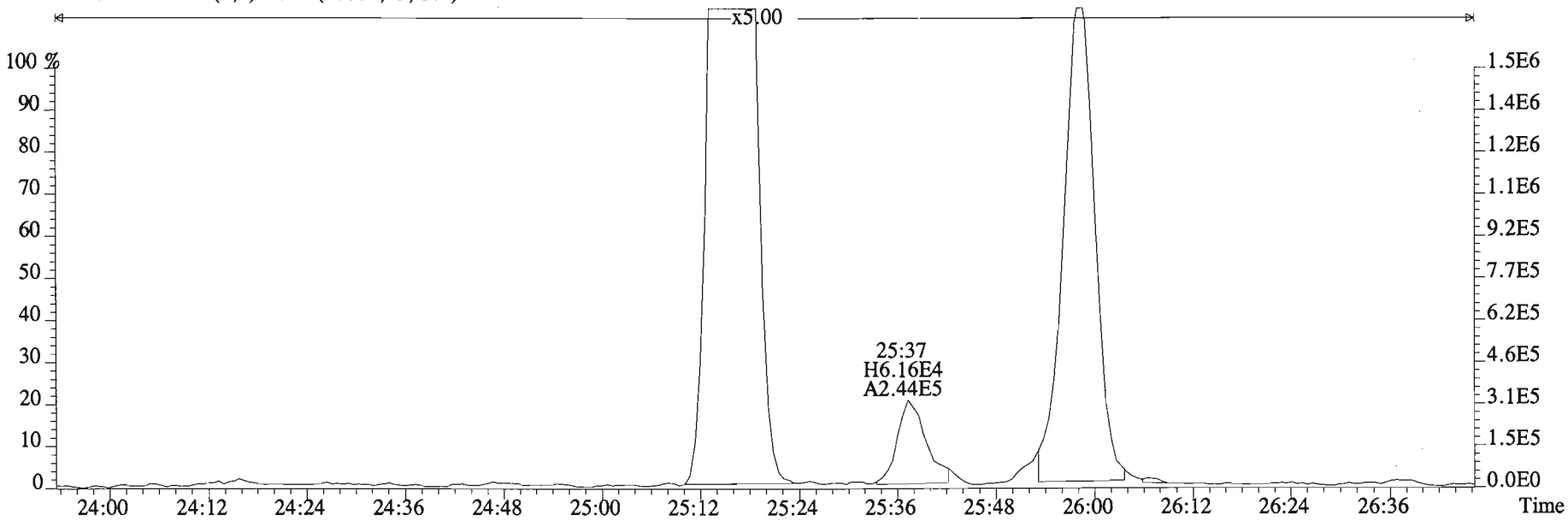
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0)



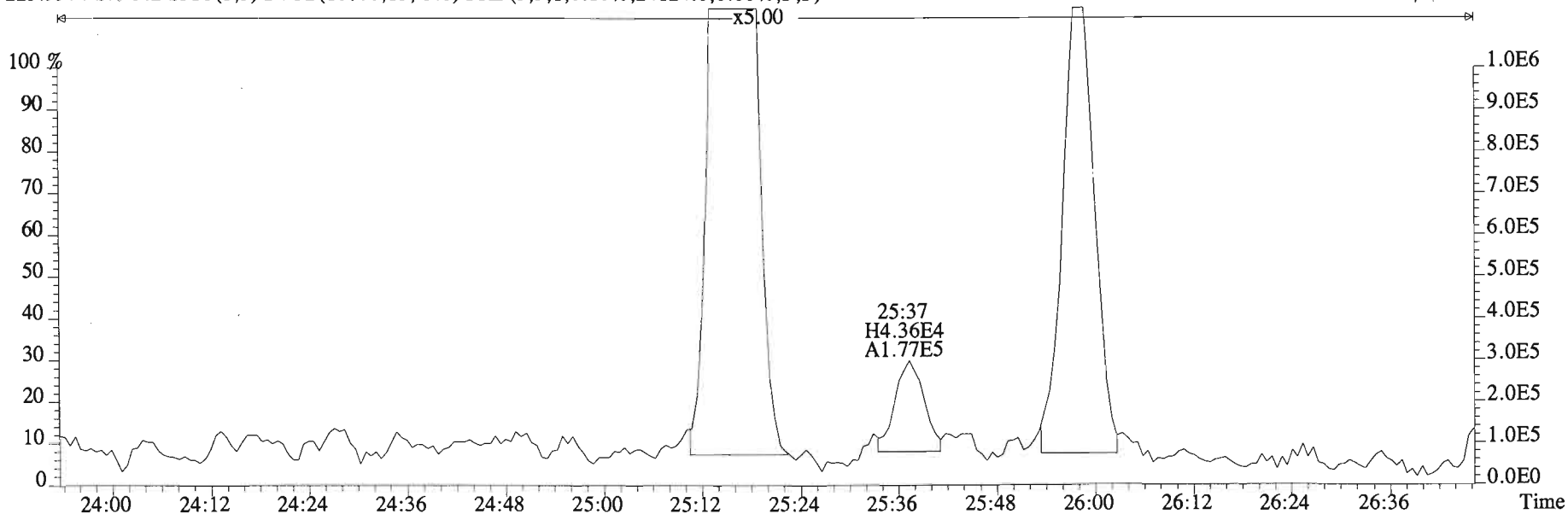
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24124.0,0.00%,F,F)



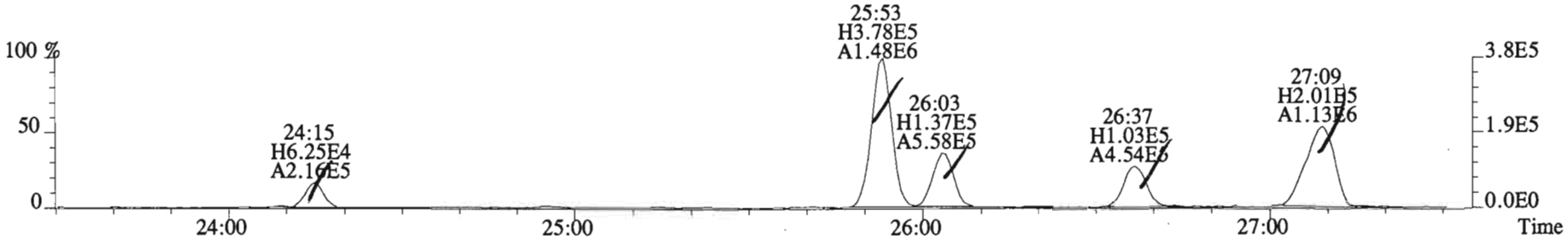
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0)



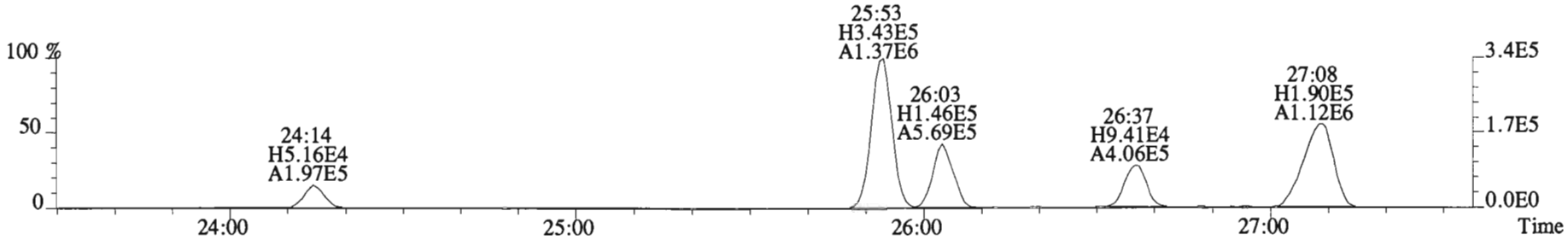
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24124.0,0.00%,F,F)



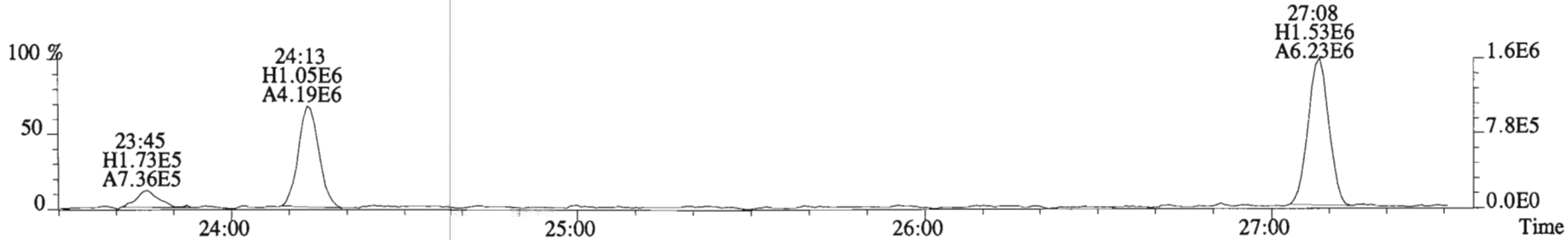
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
255.9613 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3452.0,0.00%,F,F)



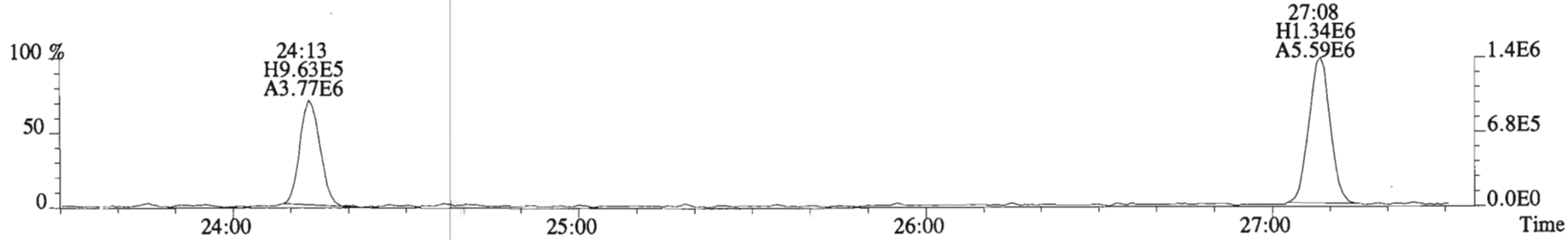
257.9584 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1748.0,0.00%,F,F)



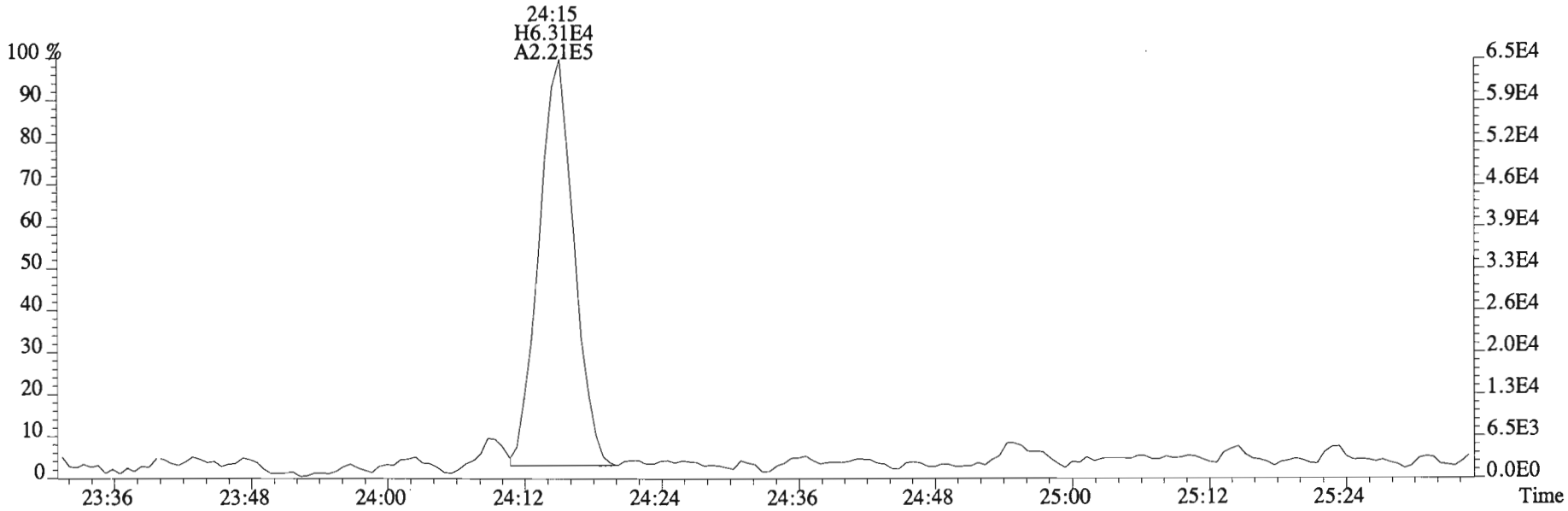
268.0016 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30536.0,0.00%,F,F)



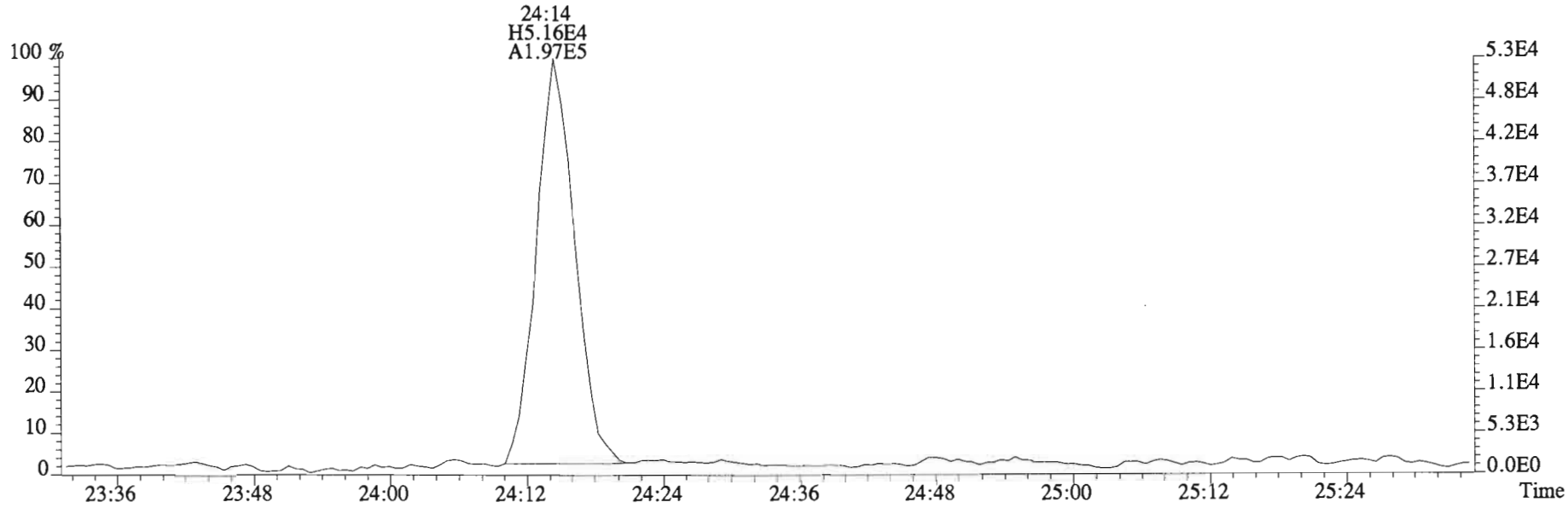
269.9986 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21860.0,0.00%,F,F)



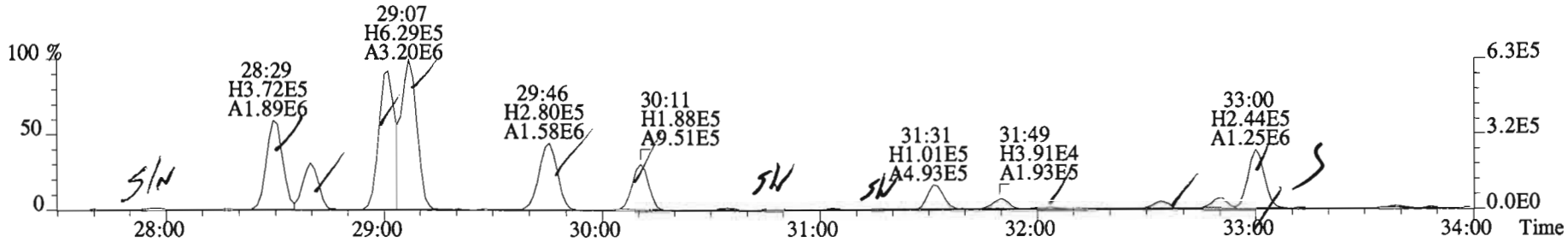
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
255.9613 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3452.0,0.00%,F,F)



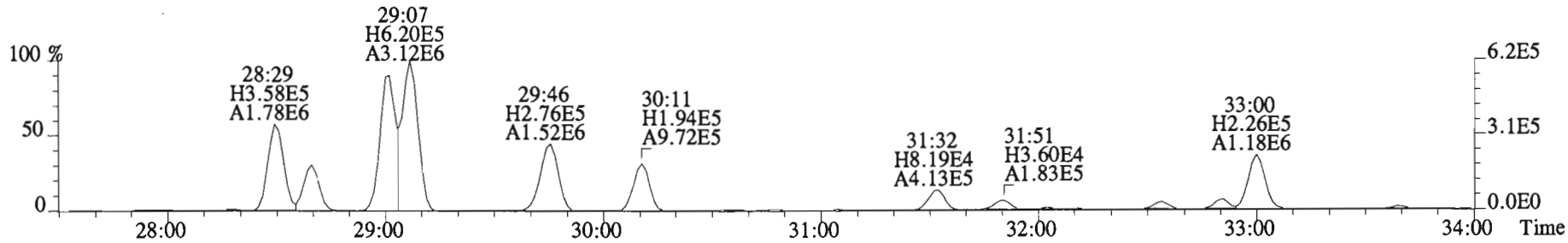
257.9584 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1748.0,0.00%,F,F)



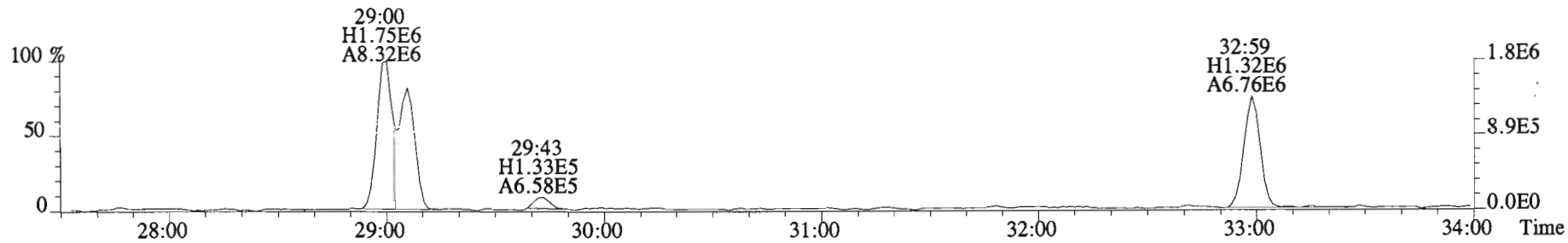
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
255.9613 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3672.0,0.00%,F,F)



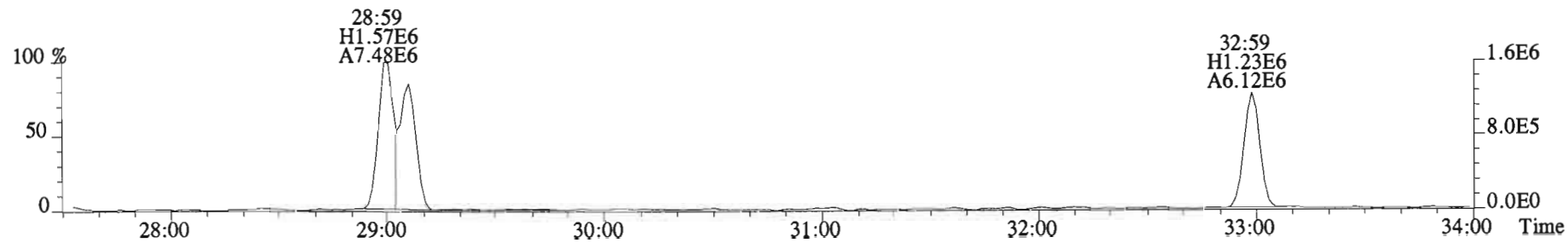
257.9584 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2024.0,0.00%,F,F)



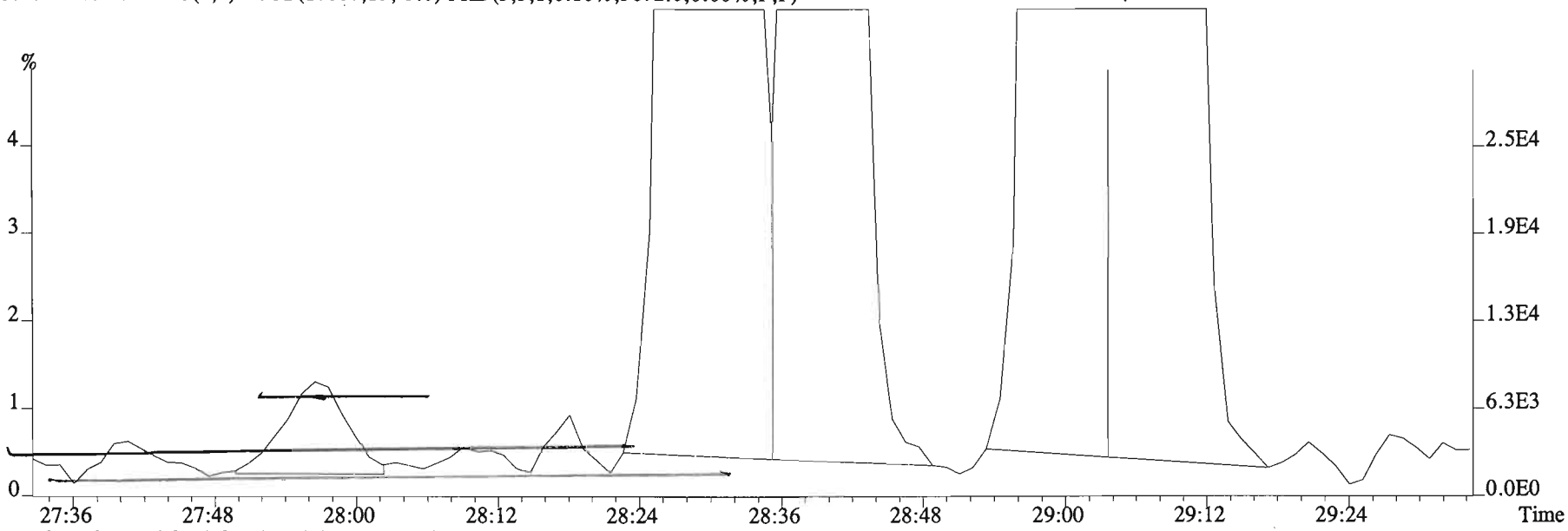
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,33392.0,0.00%,F,F)



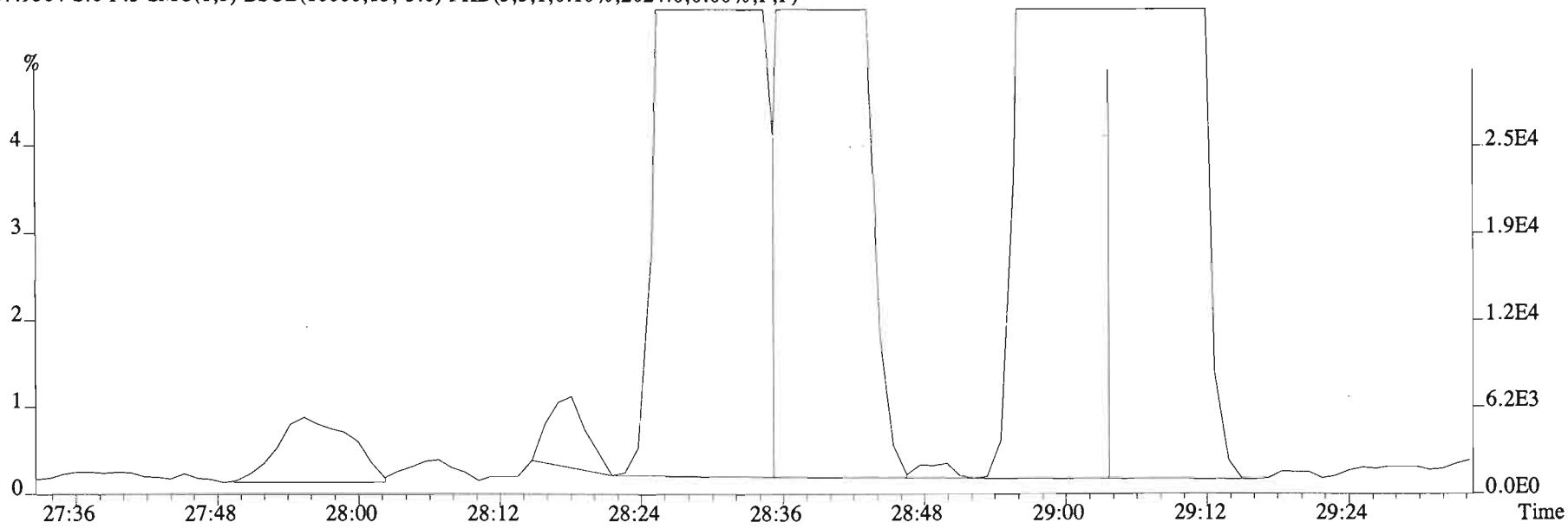
269.9986 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20280.0,0.00%,F,F)



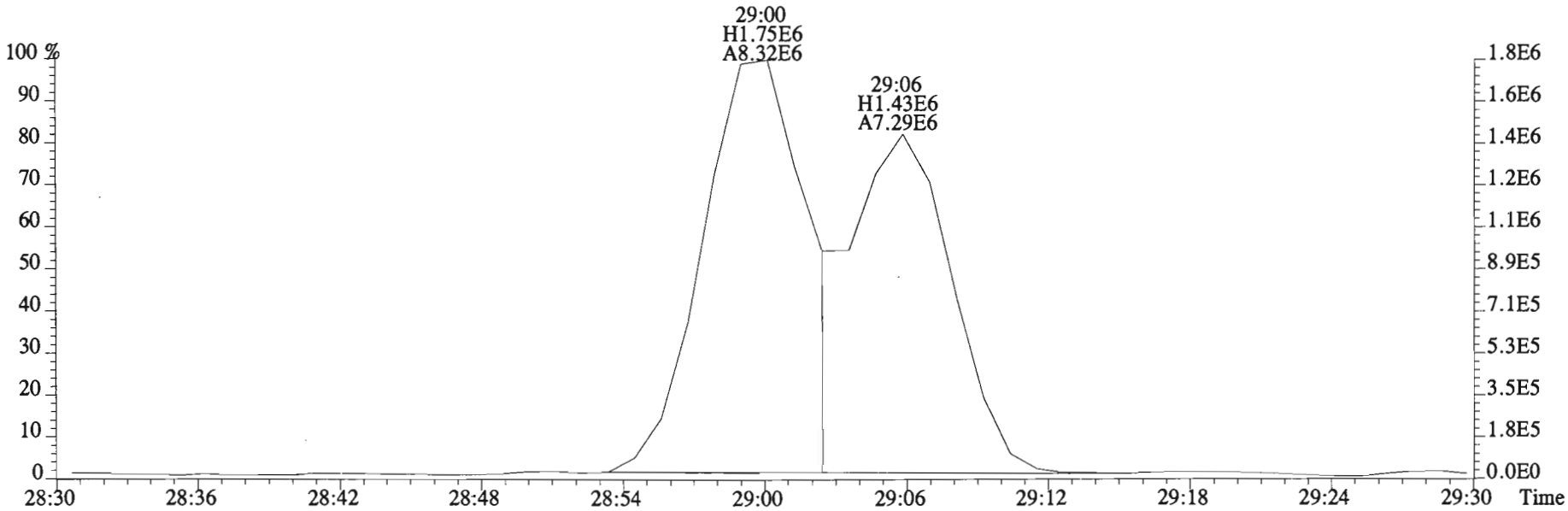
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
255.9613 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3672.0,0.00%,F,F)



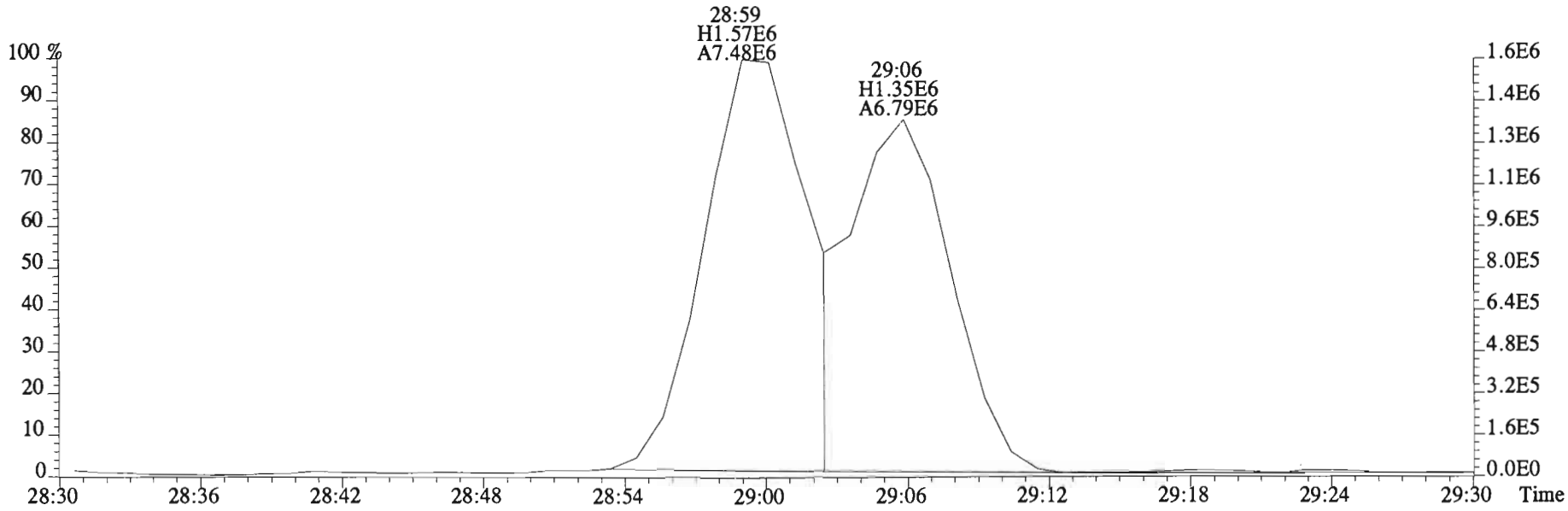
257.9584 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2024.0,0.00%,F,F)



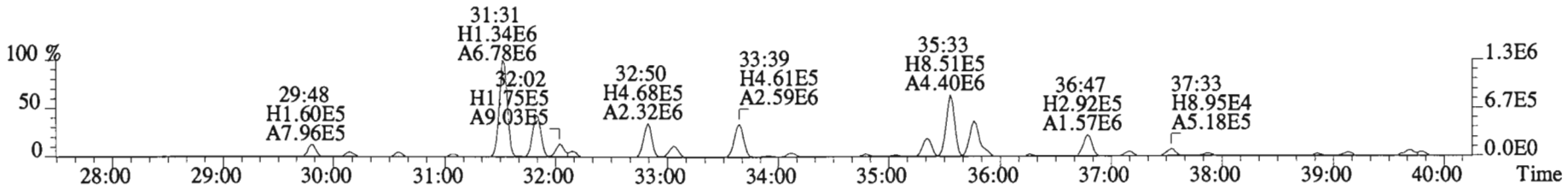
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,33392.0,0.00%,F,F)



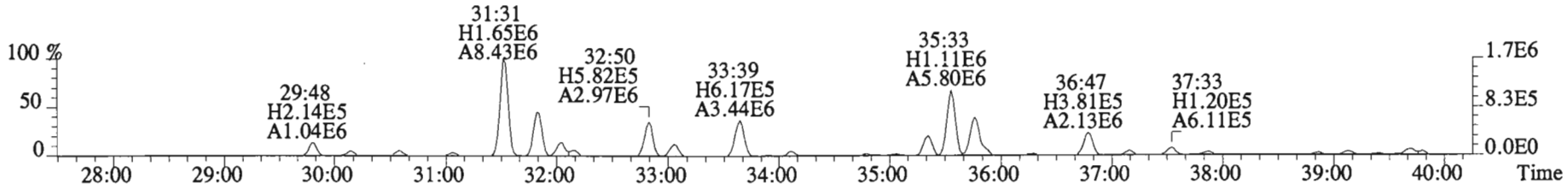
269.9986 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20280.0,0.00%,F,F)



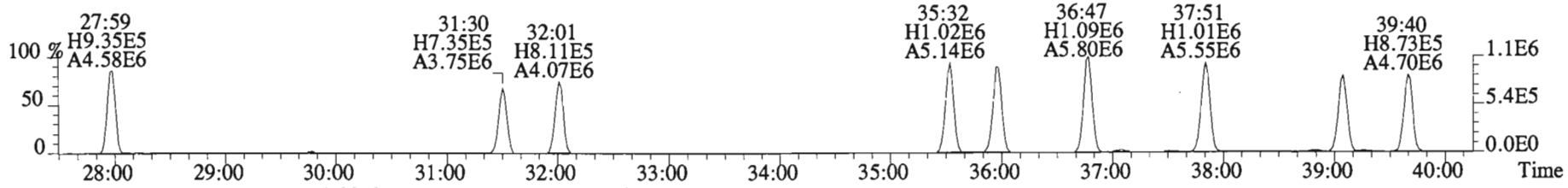
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



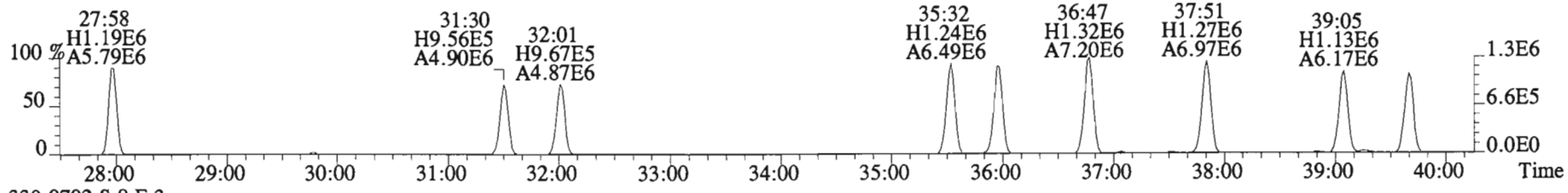
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2176.0,0.00%,F,F)



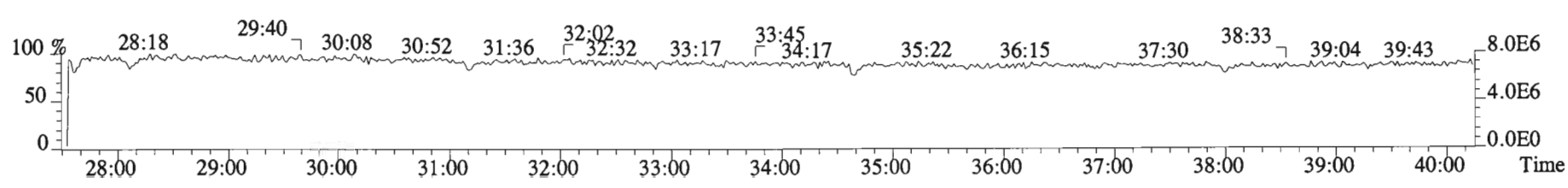
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4724.0,0.00%,F,F)



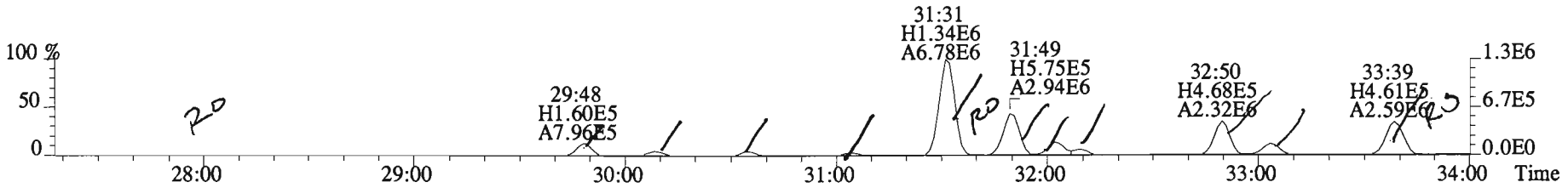
303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2976.0,0.00%,F,F)



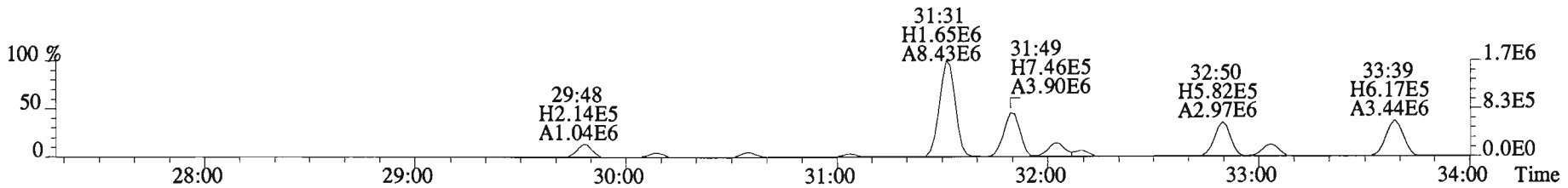
330.9792 S:8 F:3



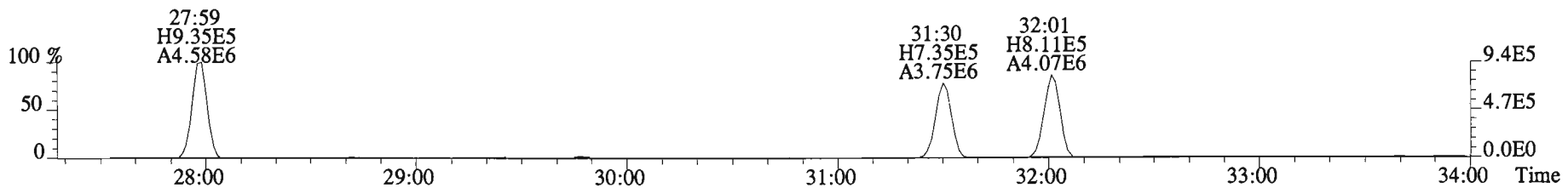
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



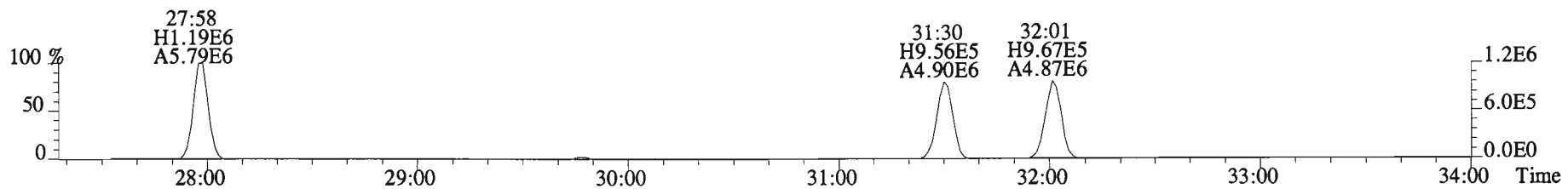
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2176.0,0.00%,F,F)



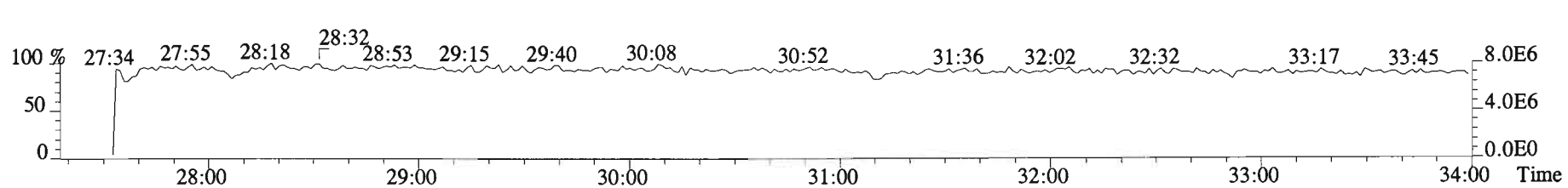
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4724.0,0.00%,F,F)



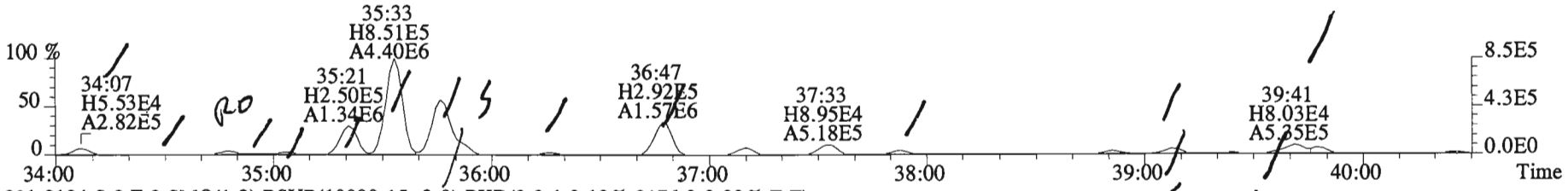
303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2976.0,0.00%,F,F)



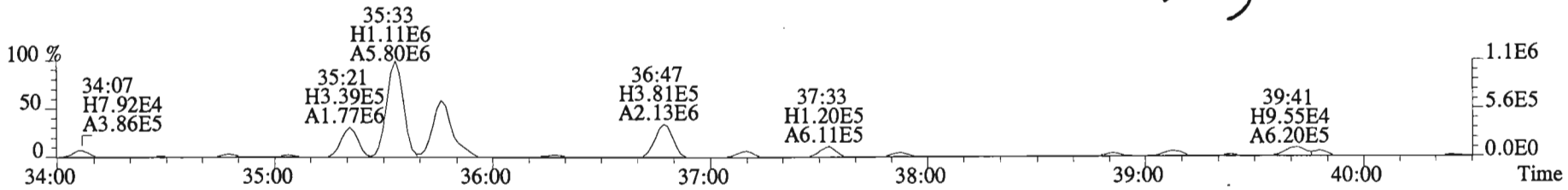
330.9792 S:8 F:3



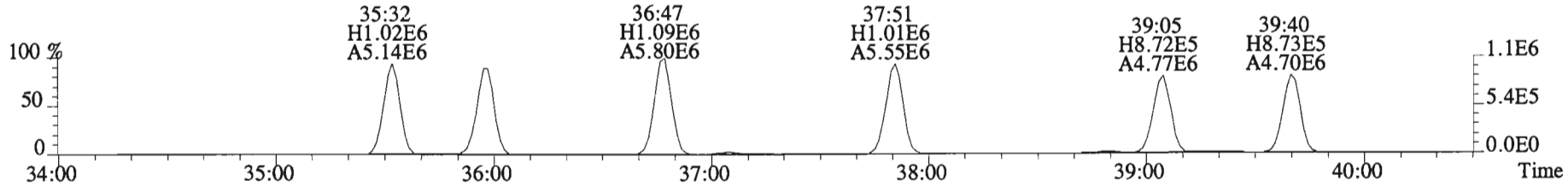
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



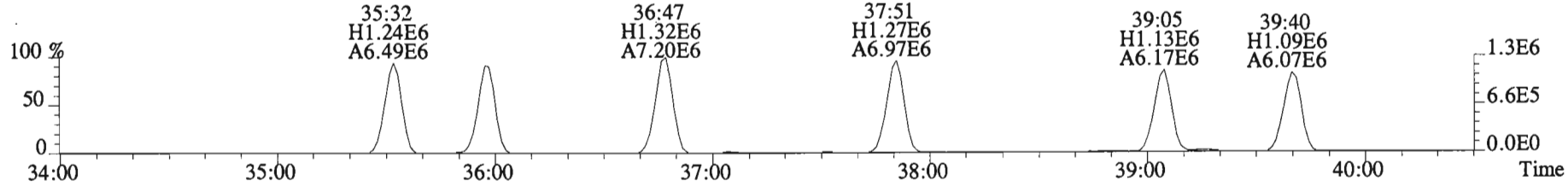
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2176.0,0.00%,F,F)



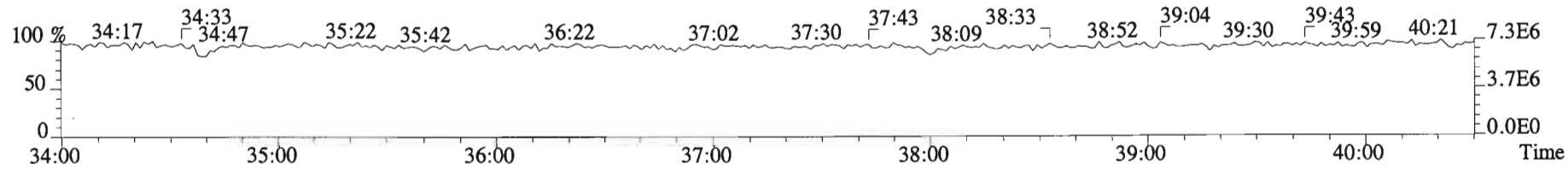
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4724.0,0.00%,F,F)



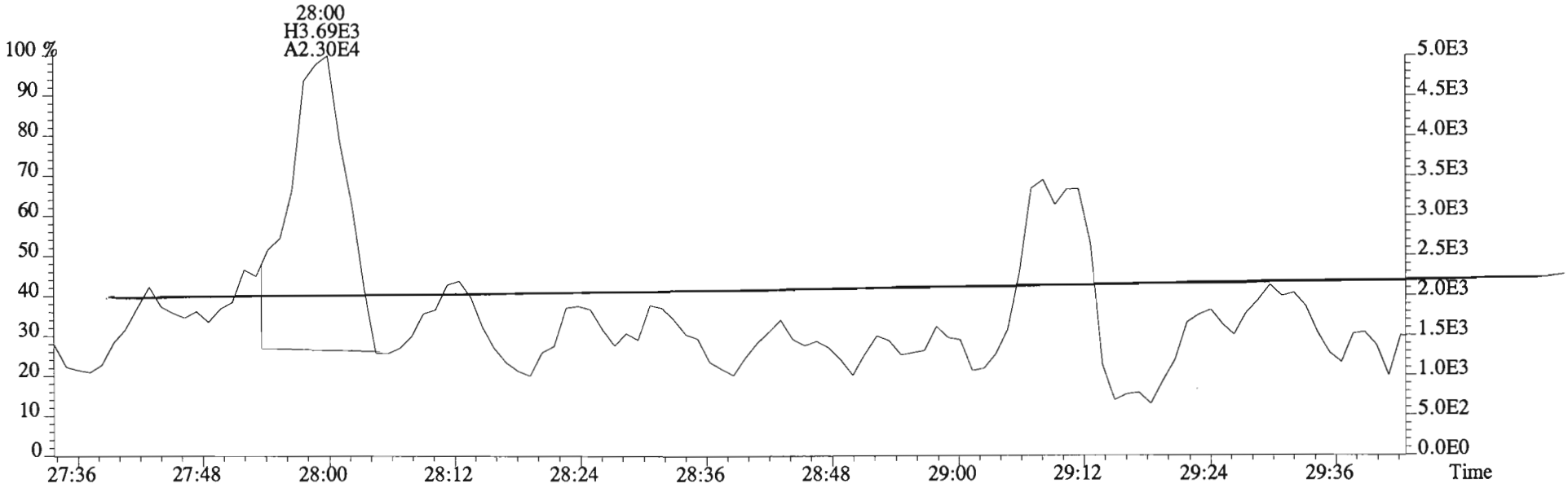
303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2976.0,0.00%,F,F)



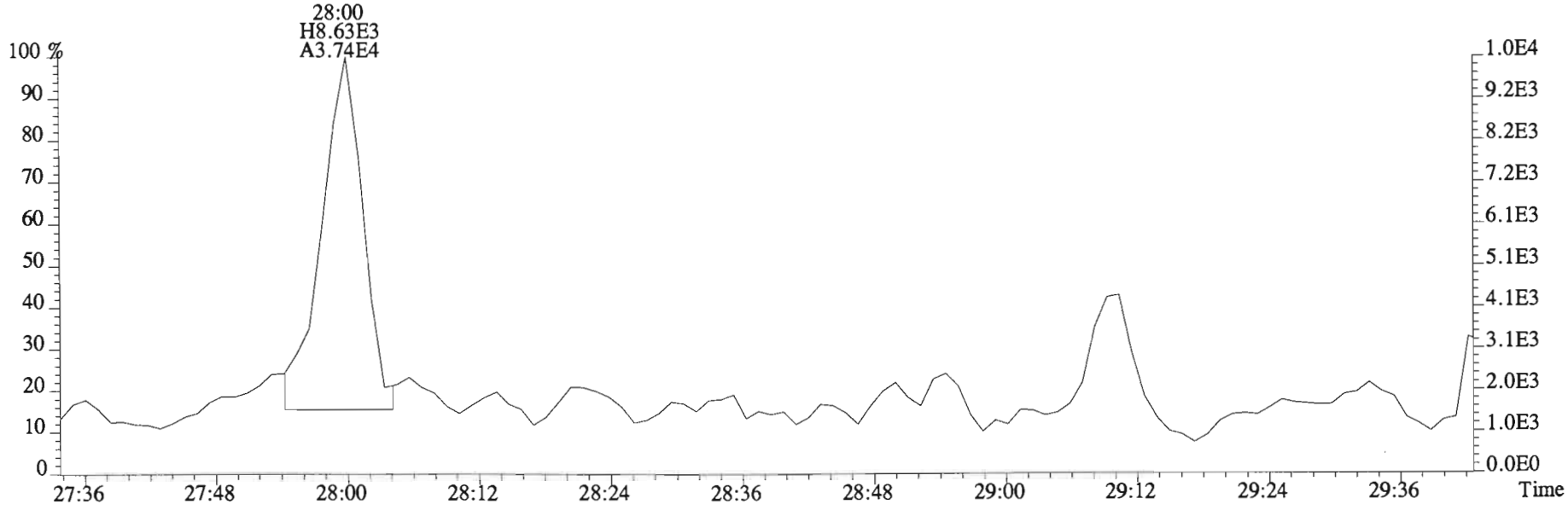
330.9792 S:8 F:3



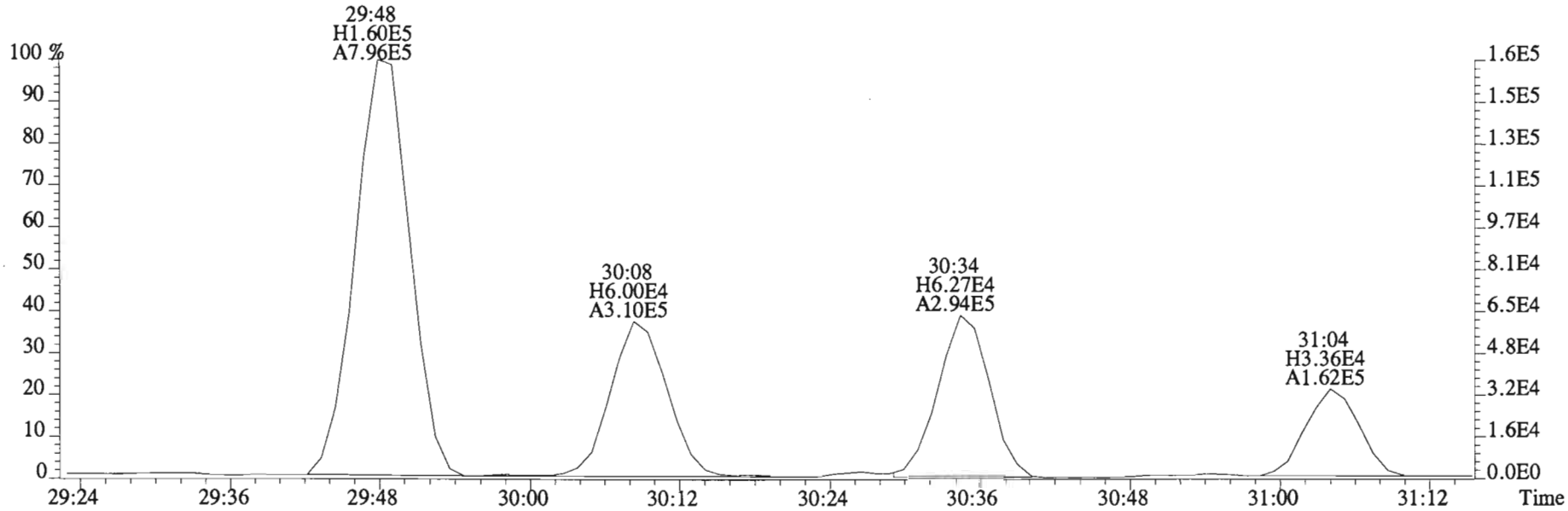
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



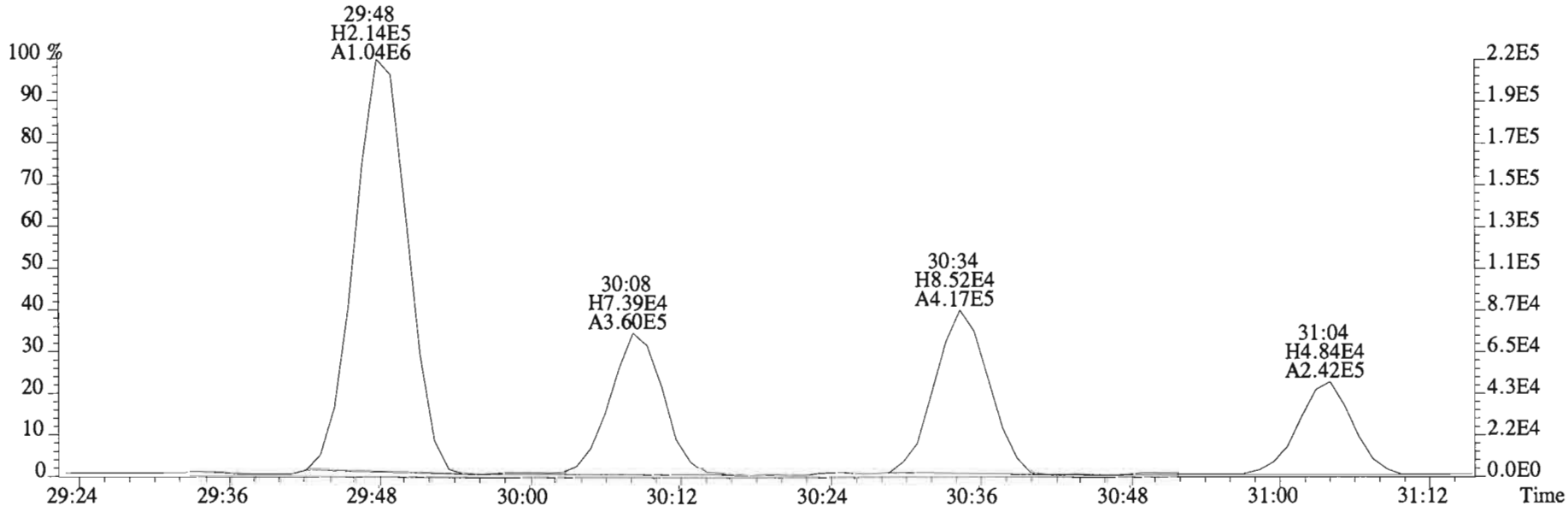
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2176.0,0.00%,F,F)



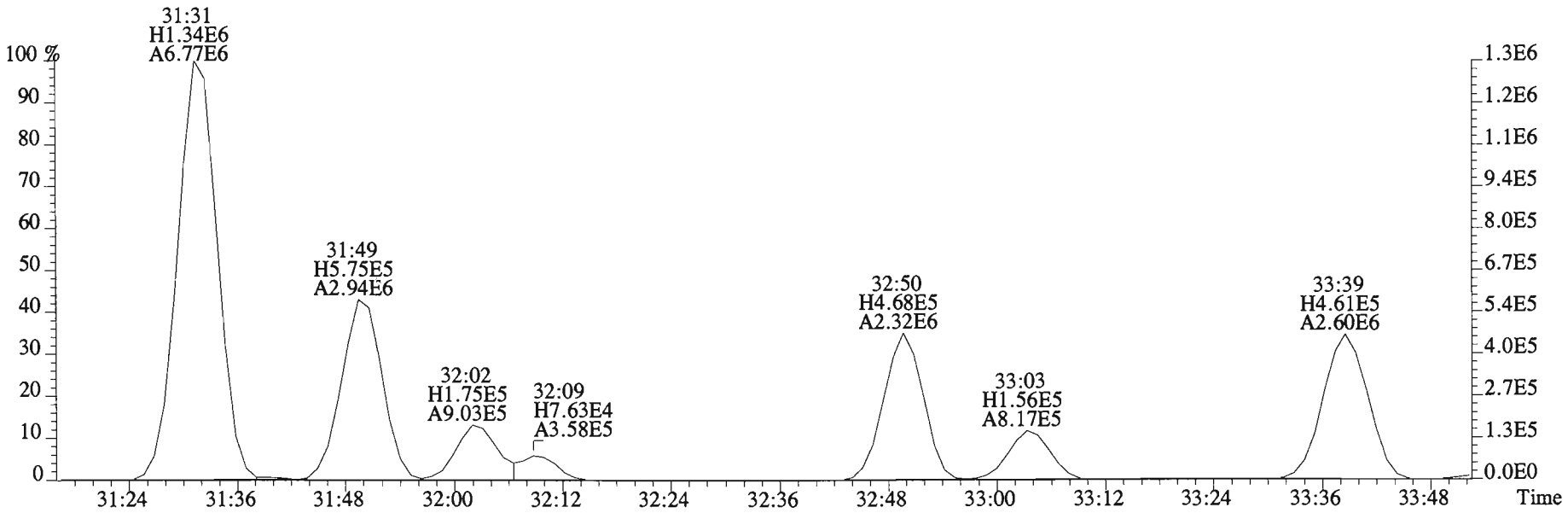
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



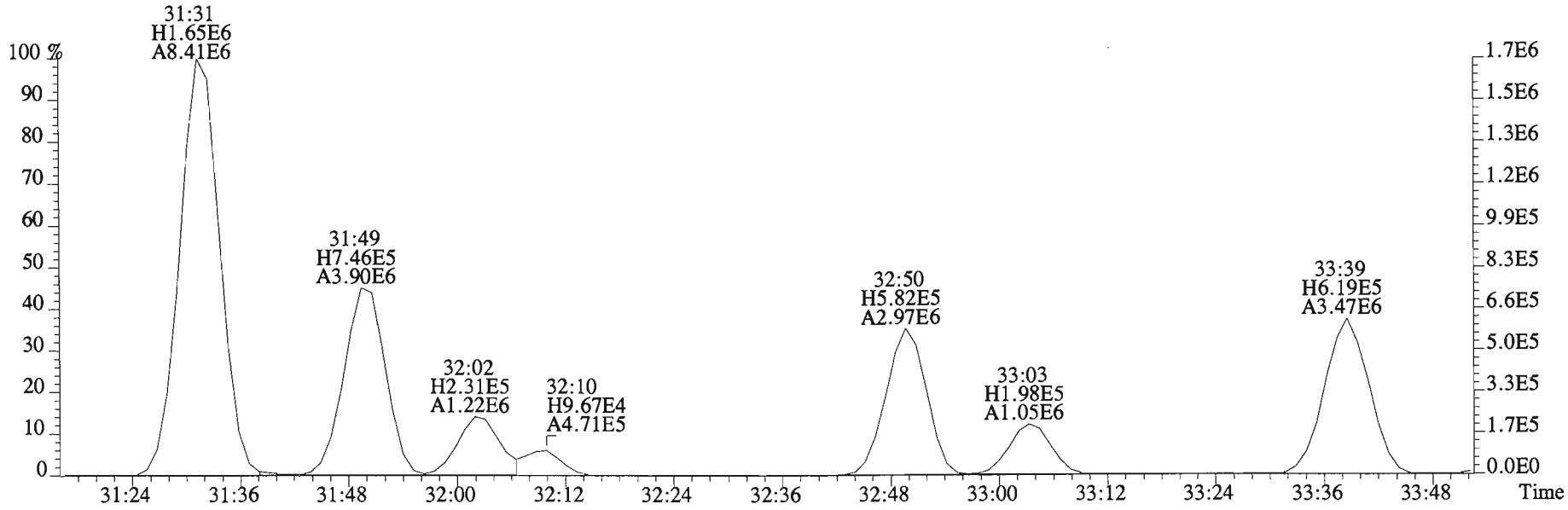
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2176.0,0.00%,F,F)



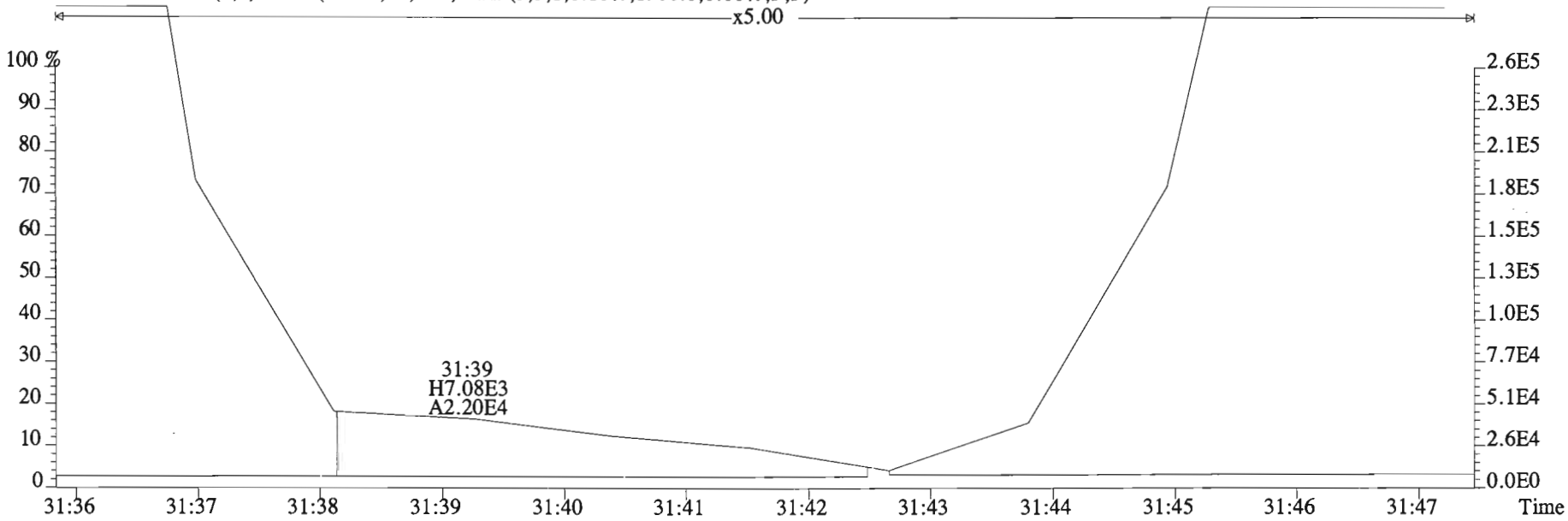
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



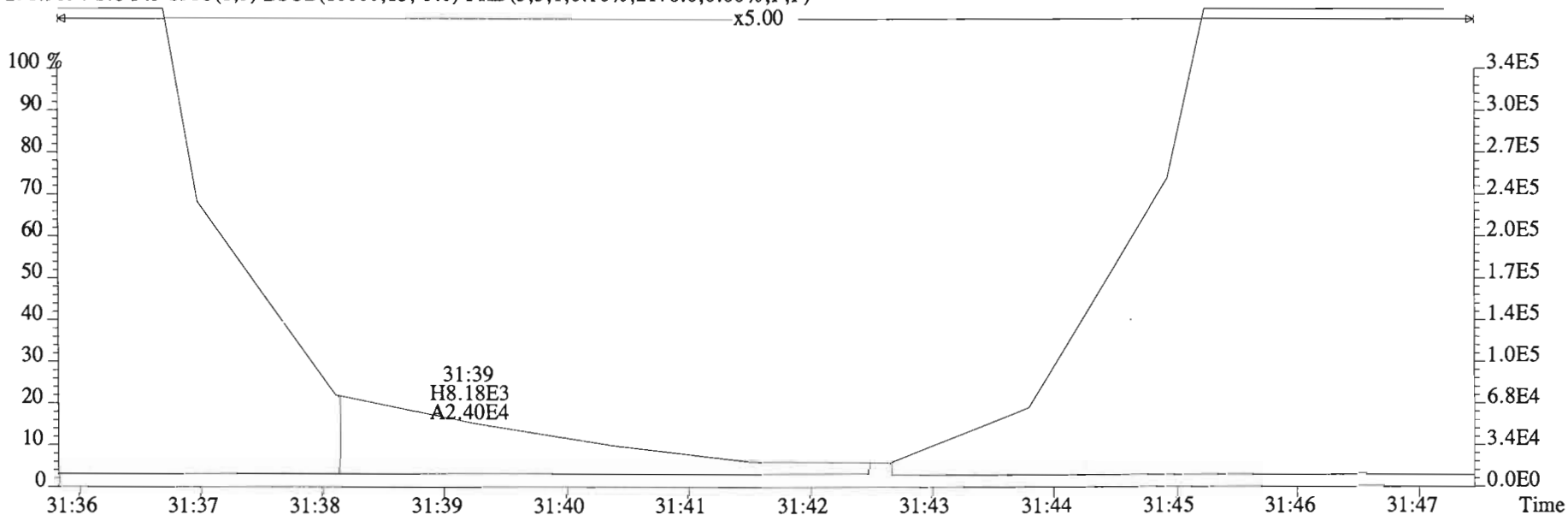
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2176.0,0.00%,F,F)



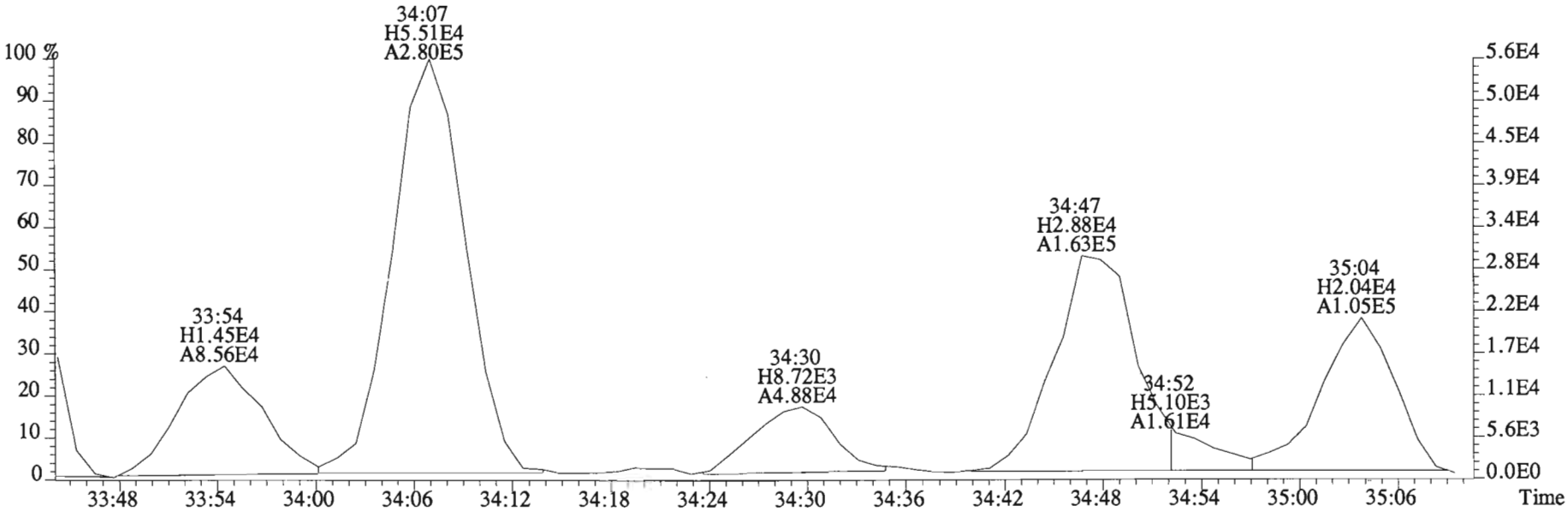
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



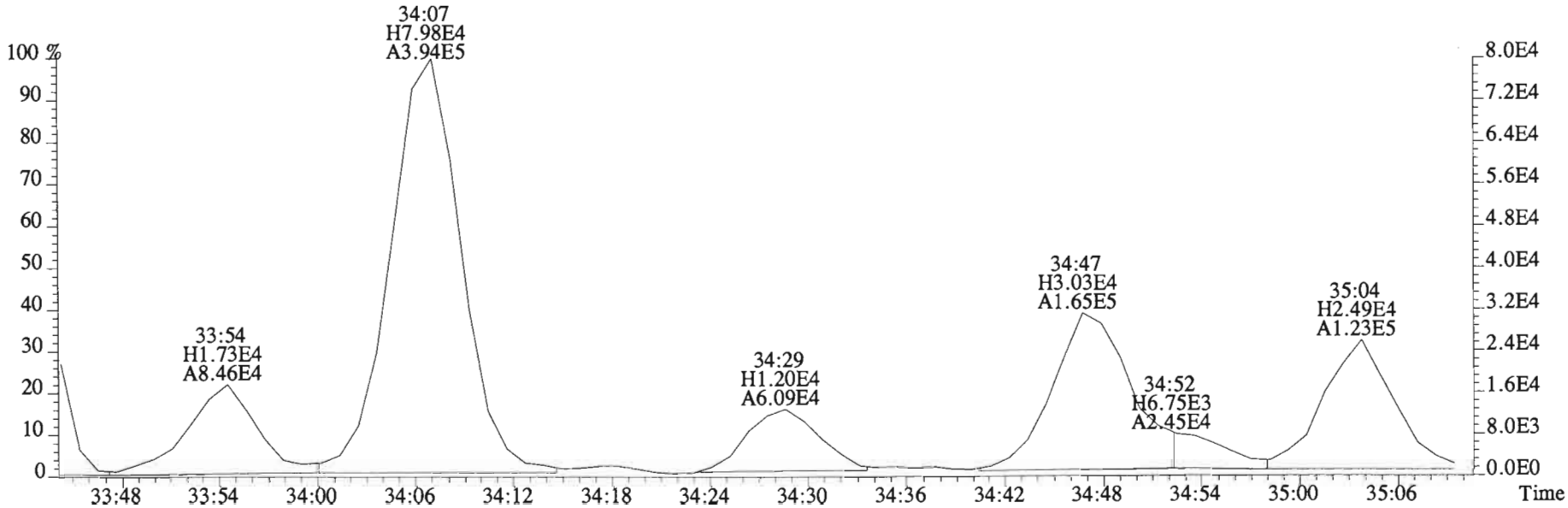
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2176.0,0.00%,F,F)



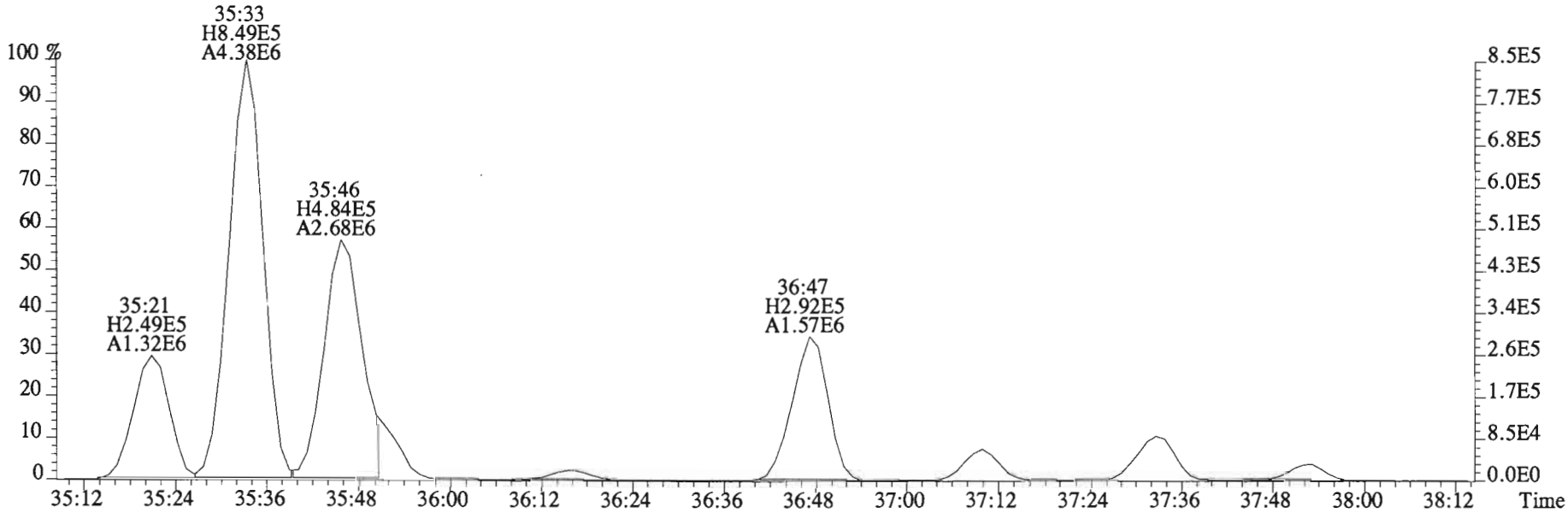
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



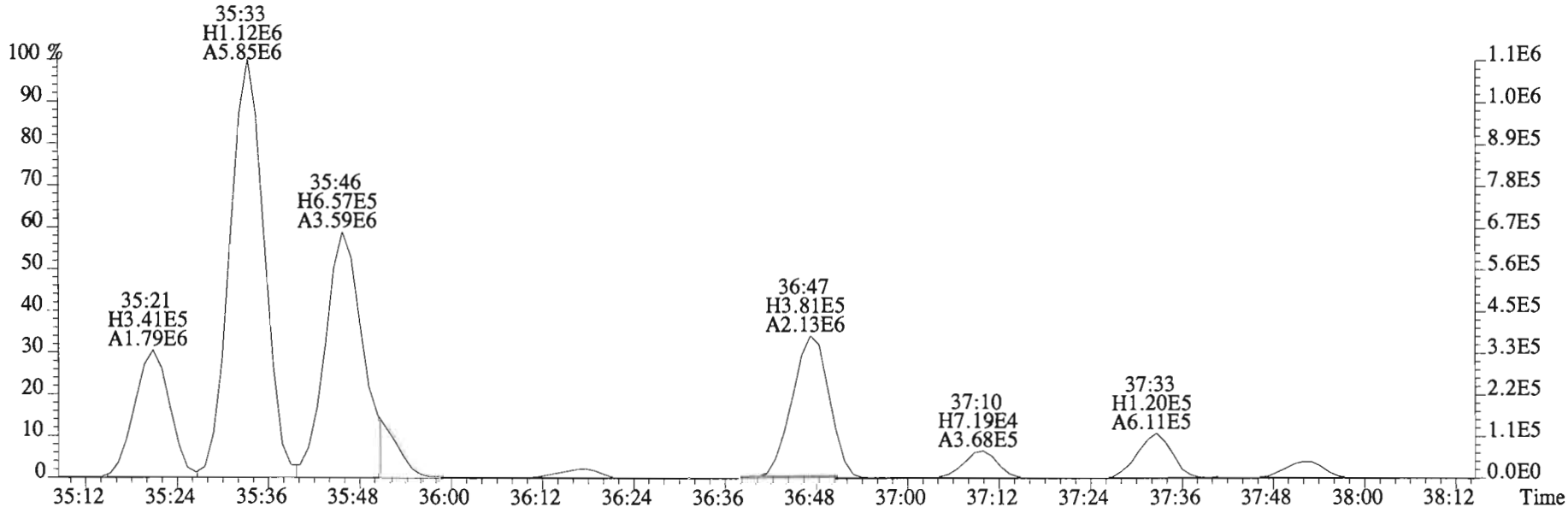
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2176.0,0.00%,F,F)



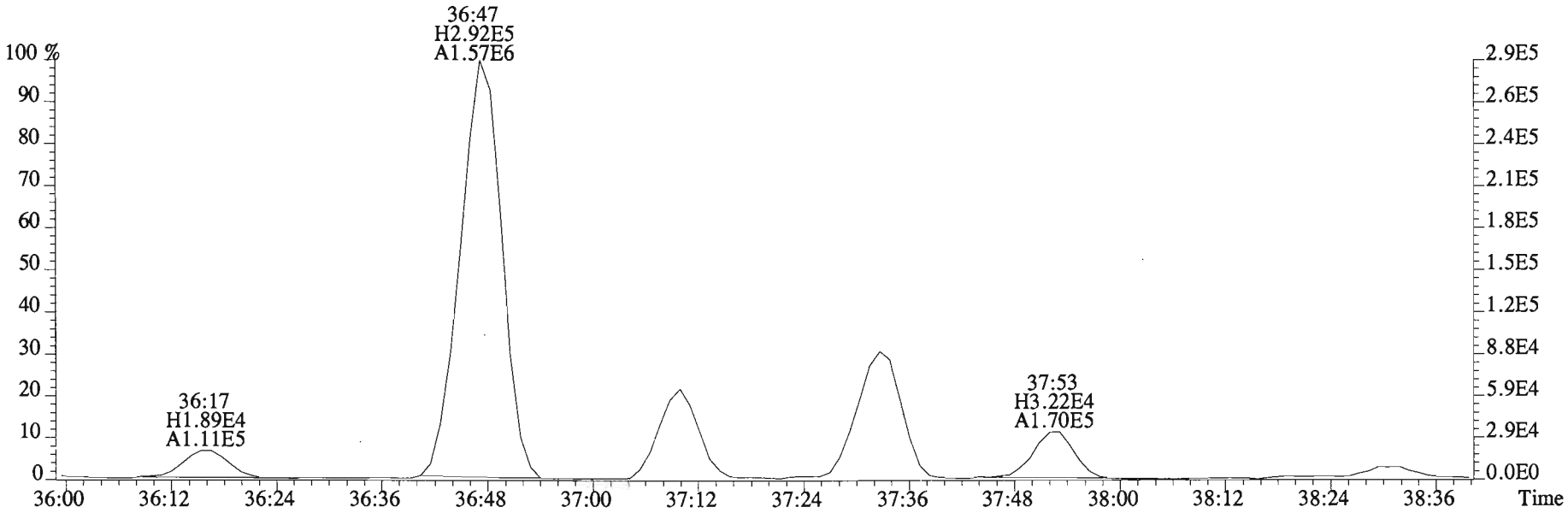
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



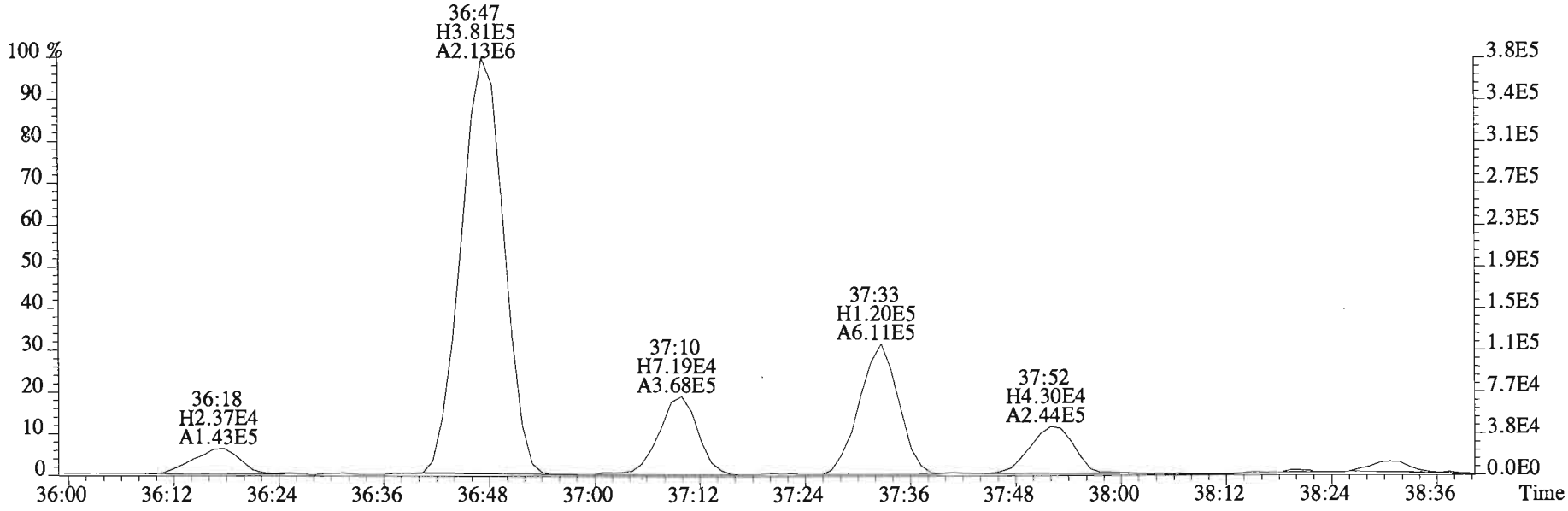
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2176.0,0.00%,F,F)



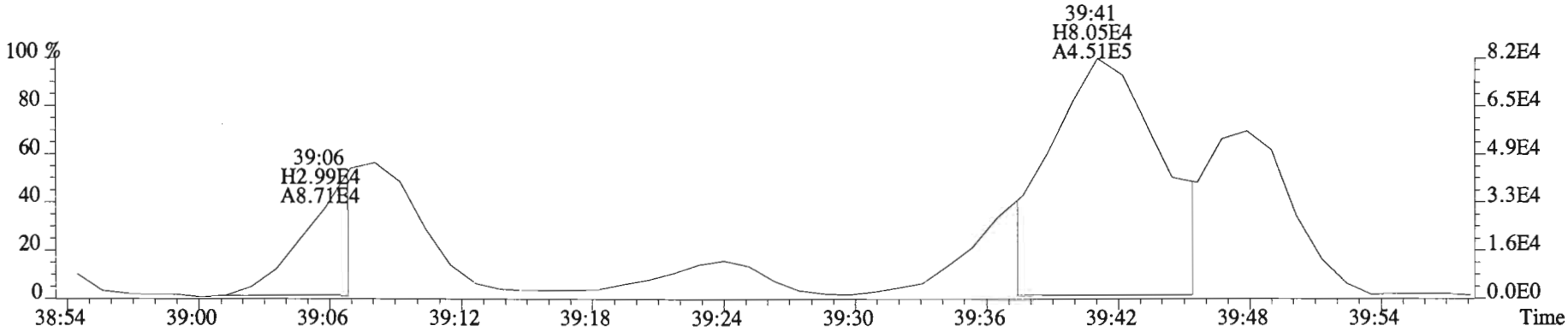
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



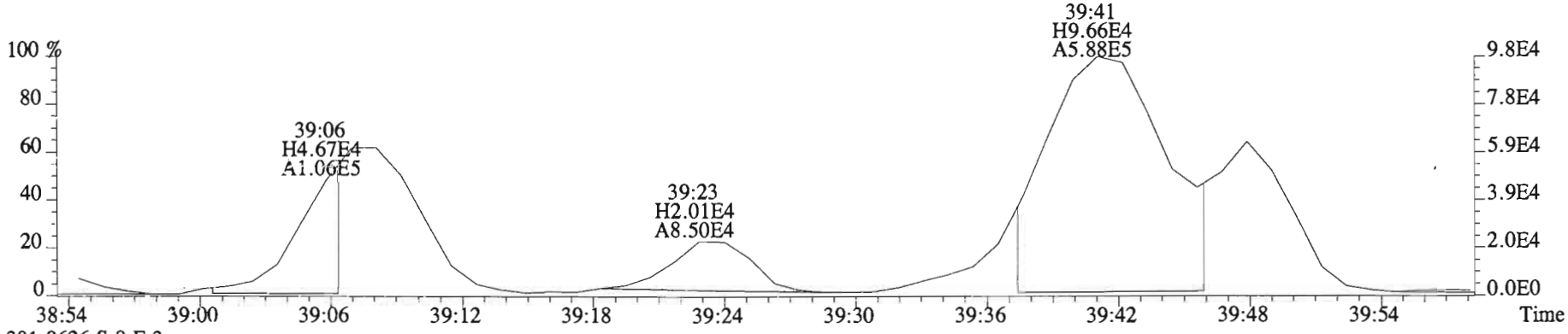
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2176.0,0.00%,F,F)



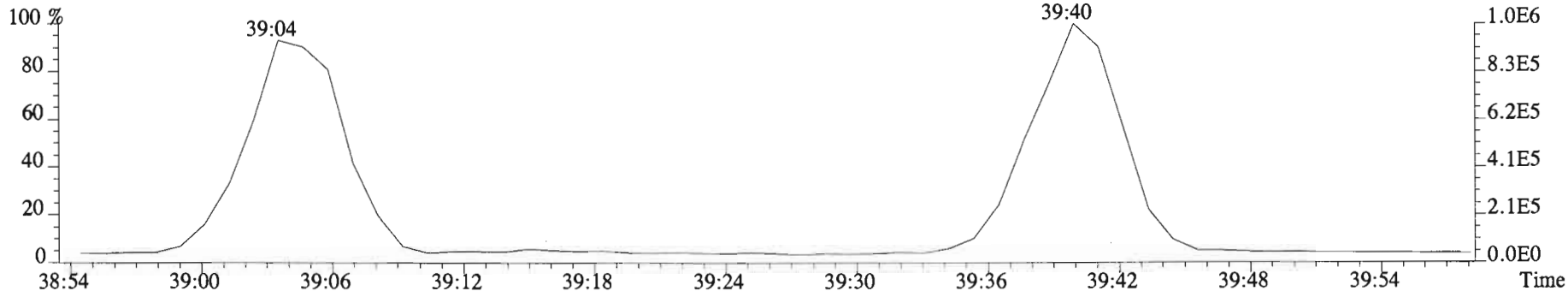
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



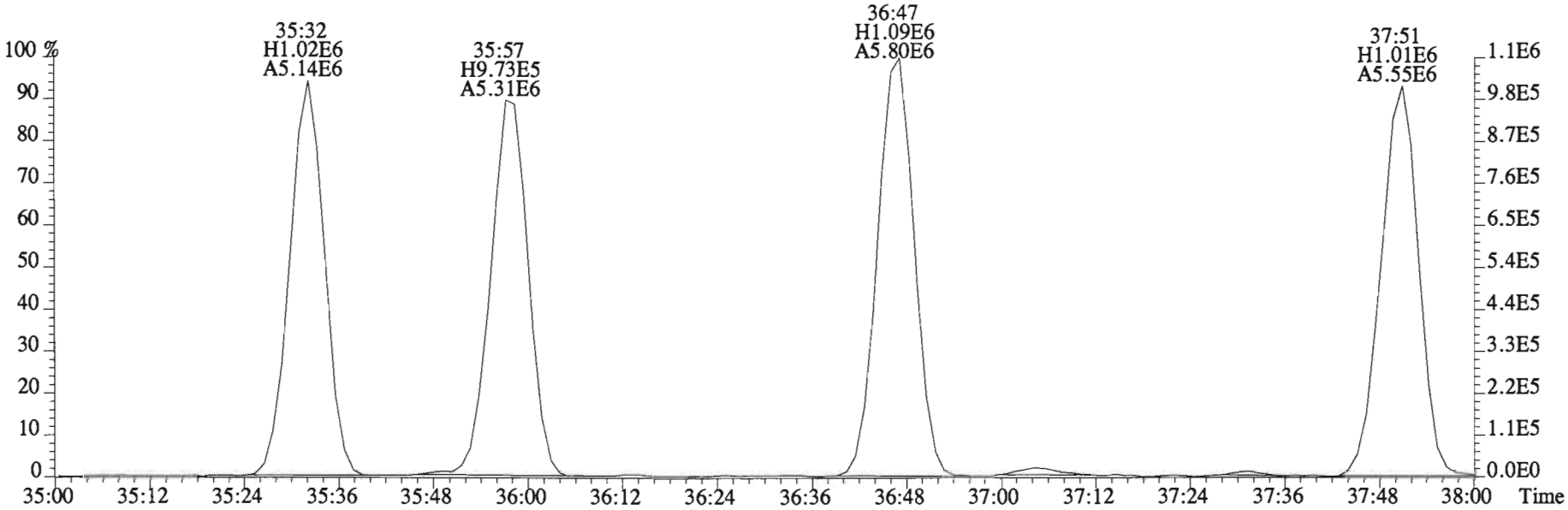
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2176.0,0.00%,F,F)



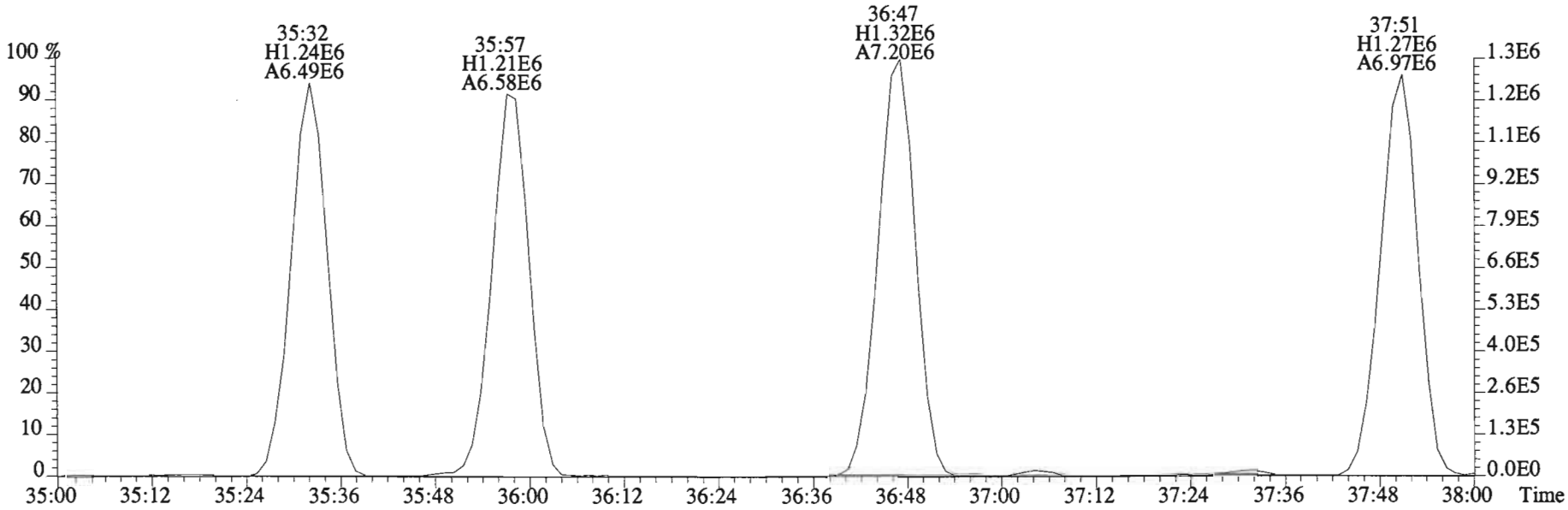
301.9626 S:8 F:3



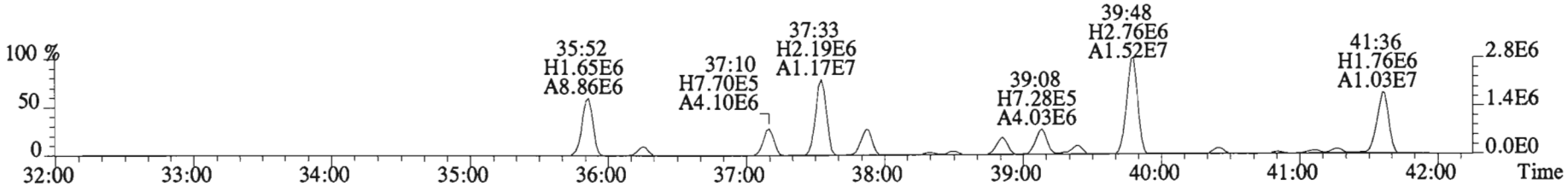
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4724.0,0.00%,F,F)



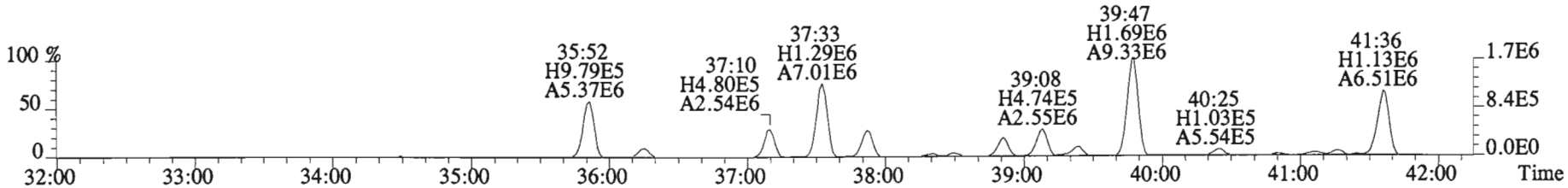
303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2976.0,0.00%,F,F)



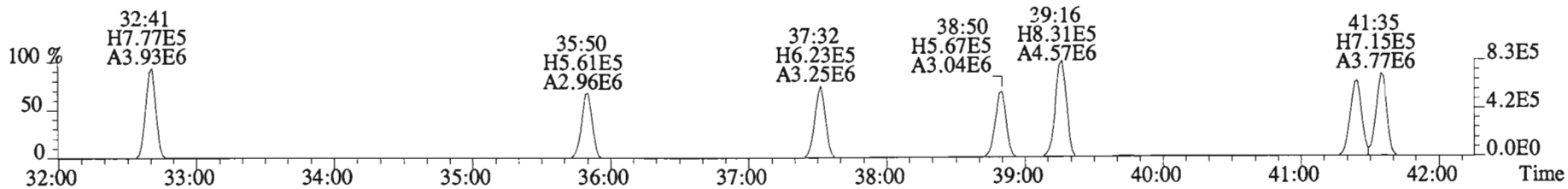
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2804.0,0.00%,F,F)



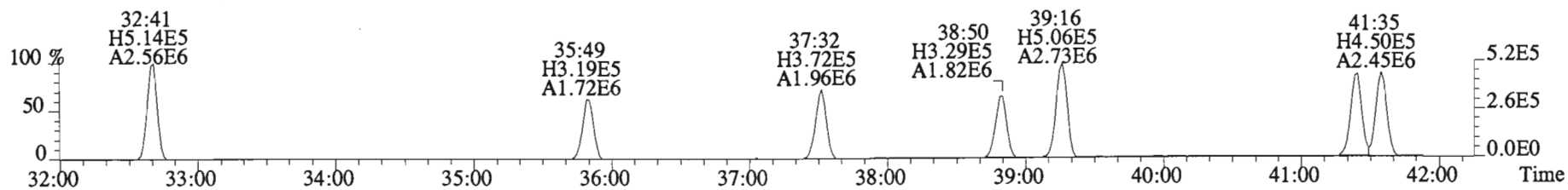
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2256.0,0.00%,F,F)



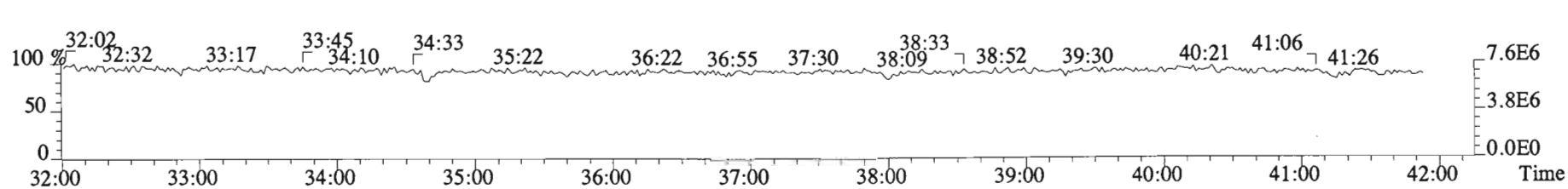
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1792.0,0.00%,F,F)



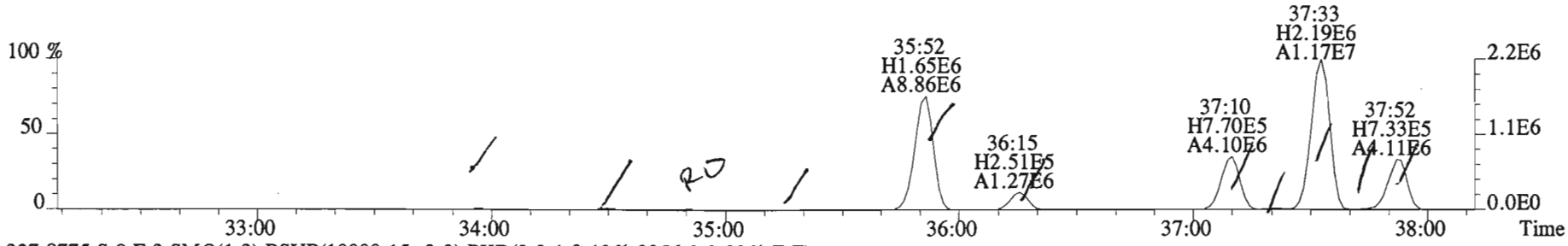
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1612.0,0.00%,F,F)



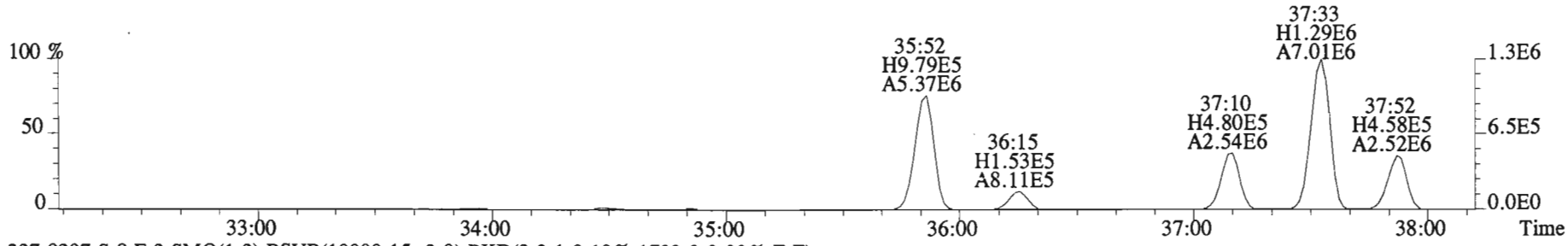
330.9792 S:8 F:3



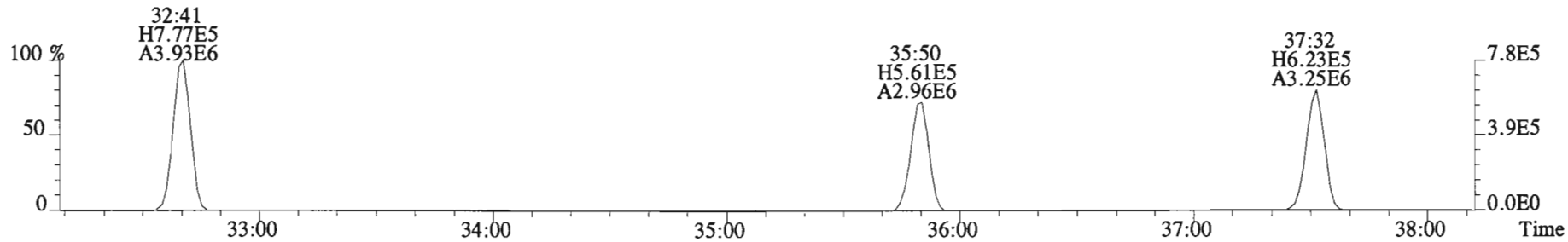
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2804.0,0.00%,F,F)



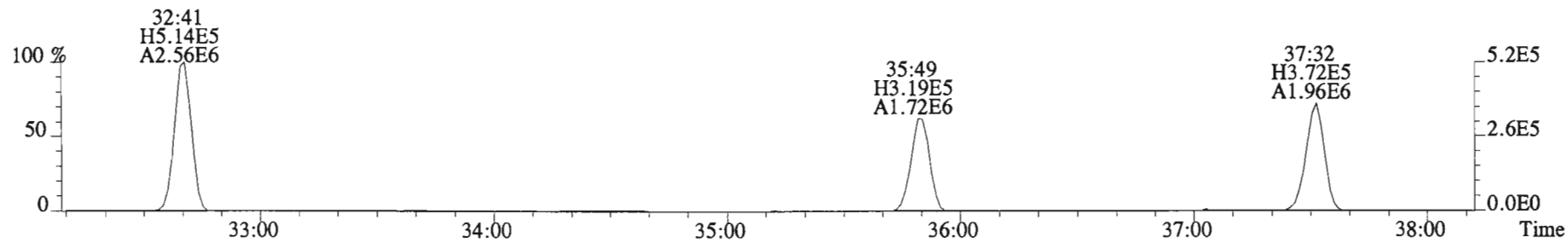
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2256.0,0.00%,F,F)



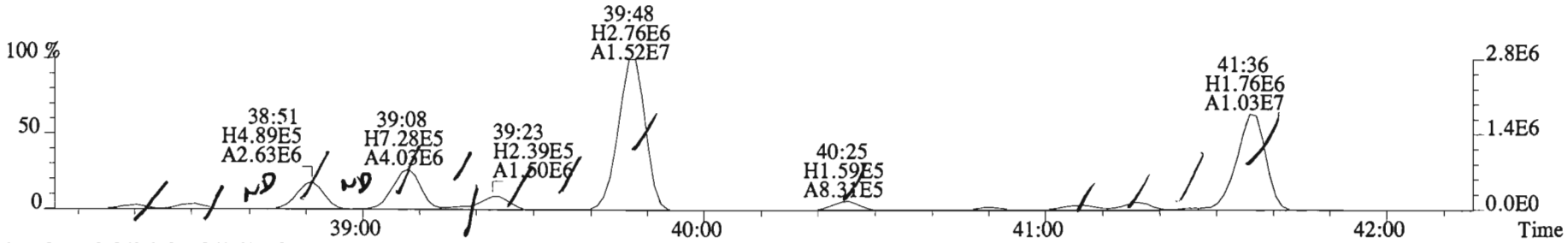
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1792.0,0.00%,F,F)



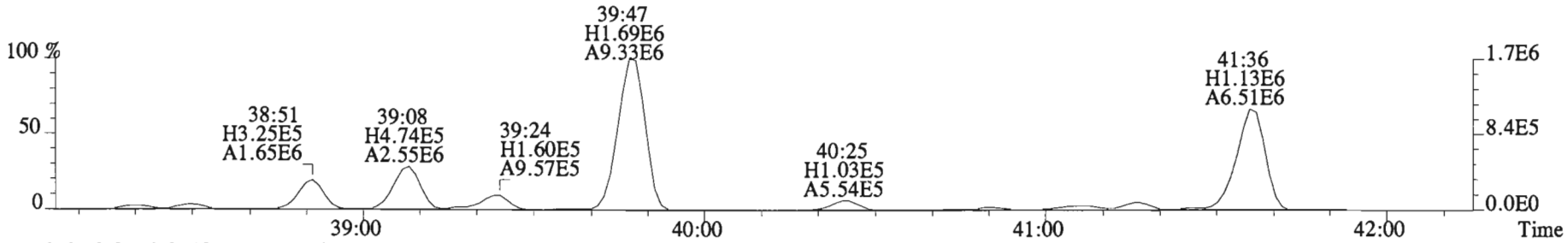
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1612.0,0.00%,F,F)



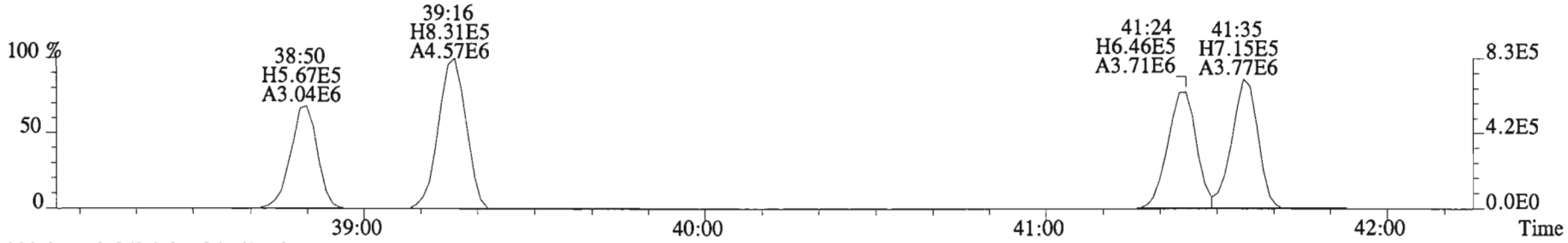
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2804.0,0.00%,F,F)



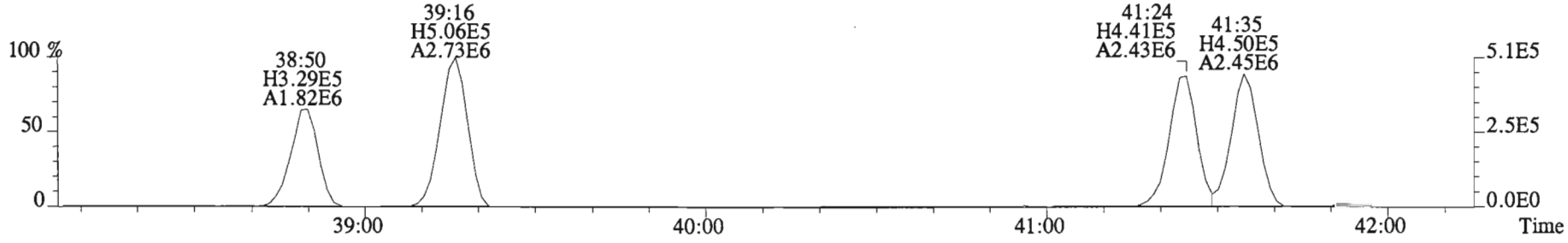
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2256.0,0.00%,F,F)



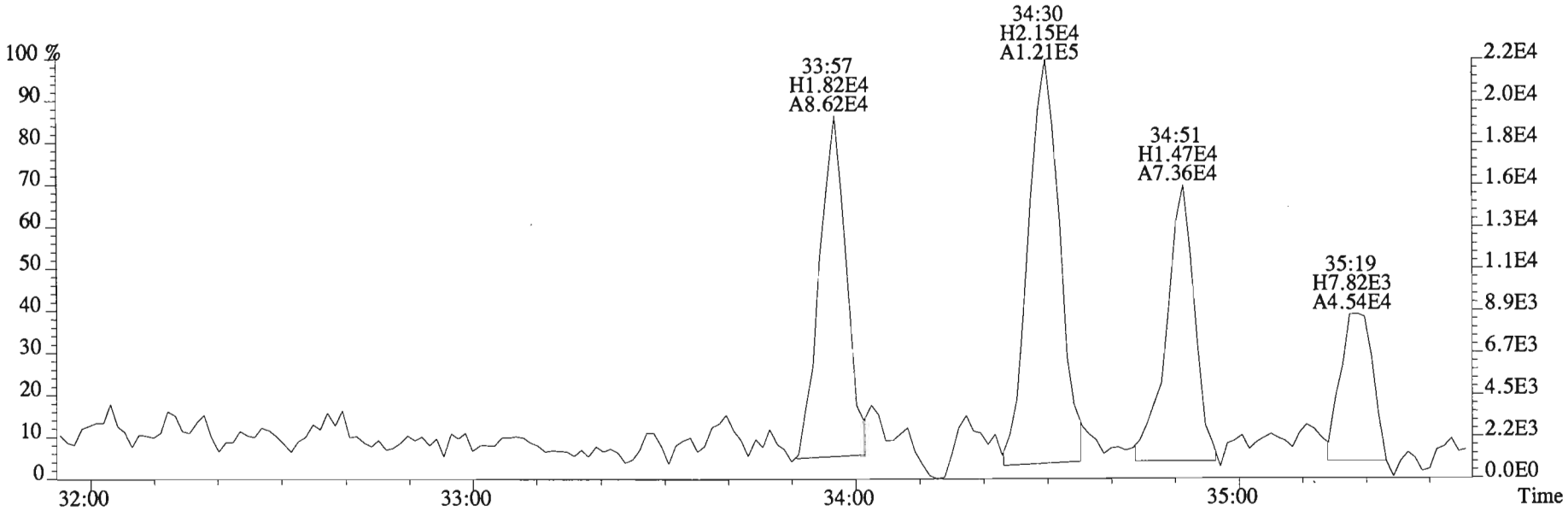
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1792.0,0.00%,F,F)



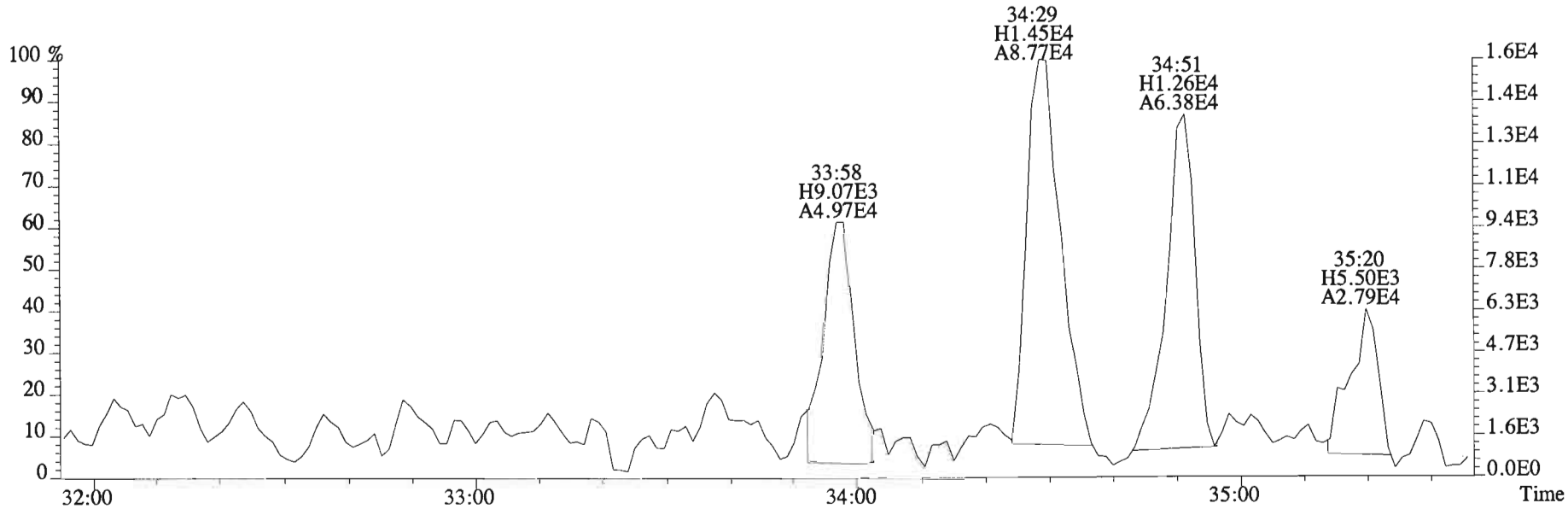
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1612.0,0.00%,F,F)



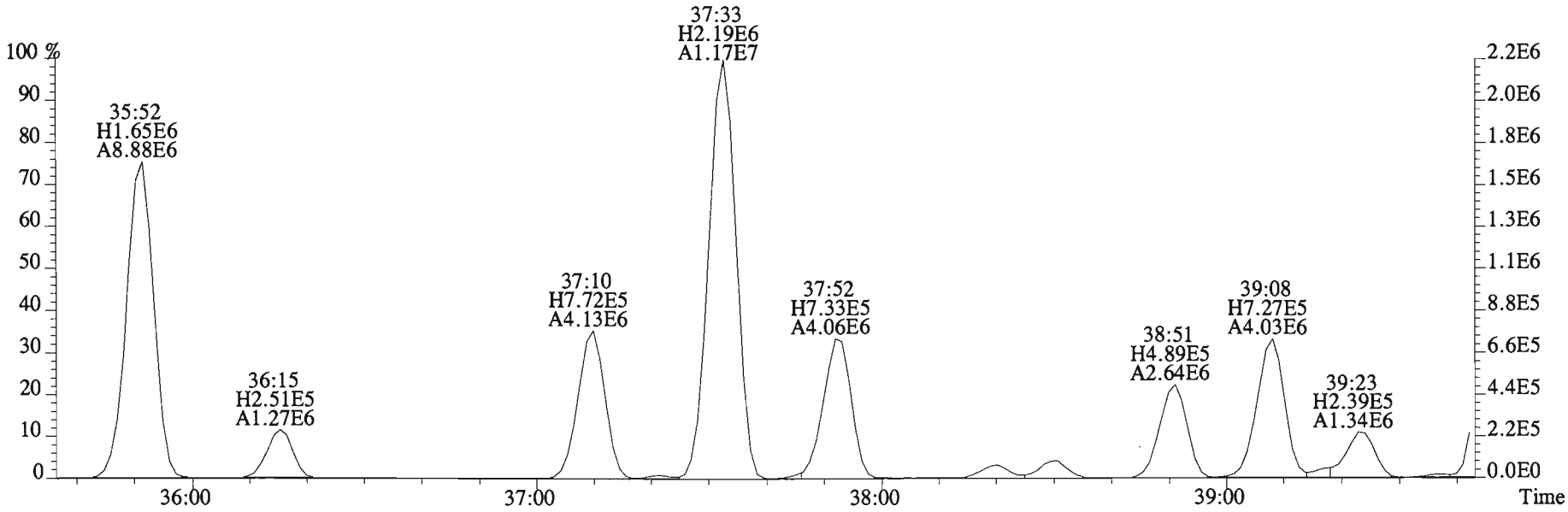
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



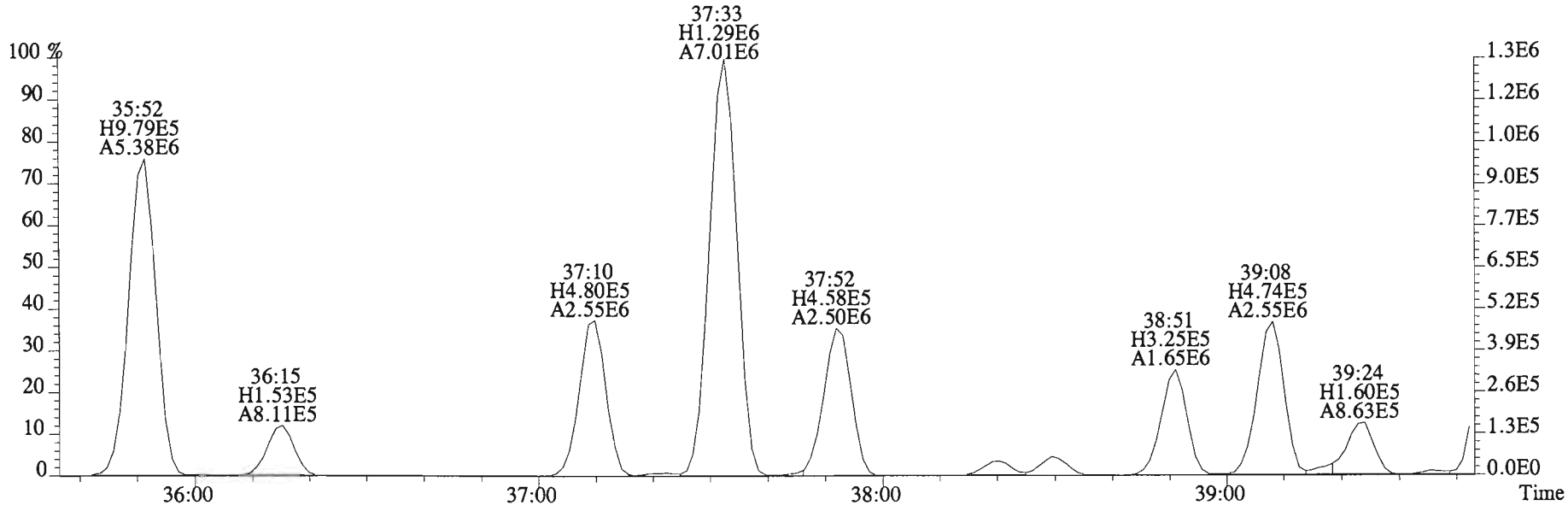
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



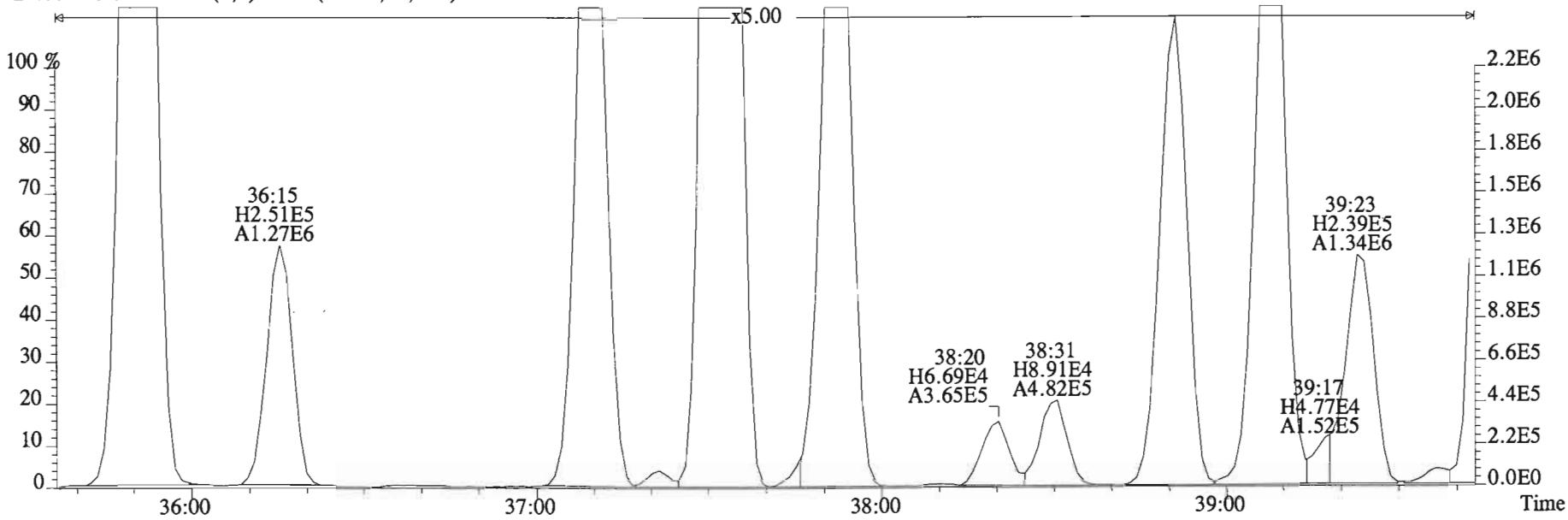
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



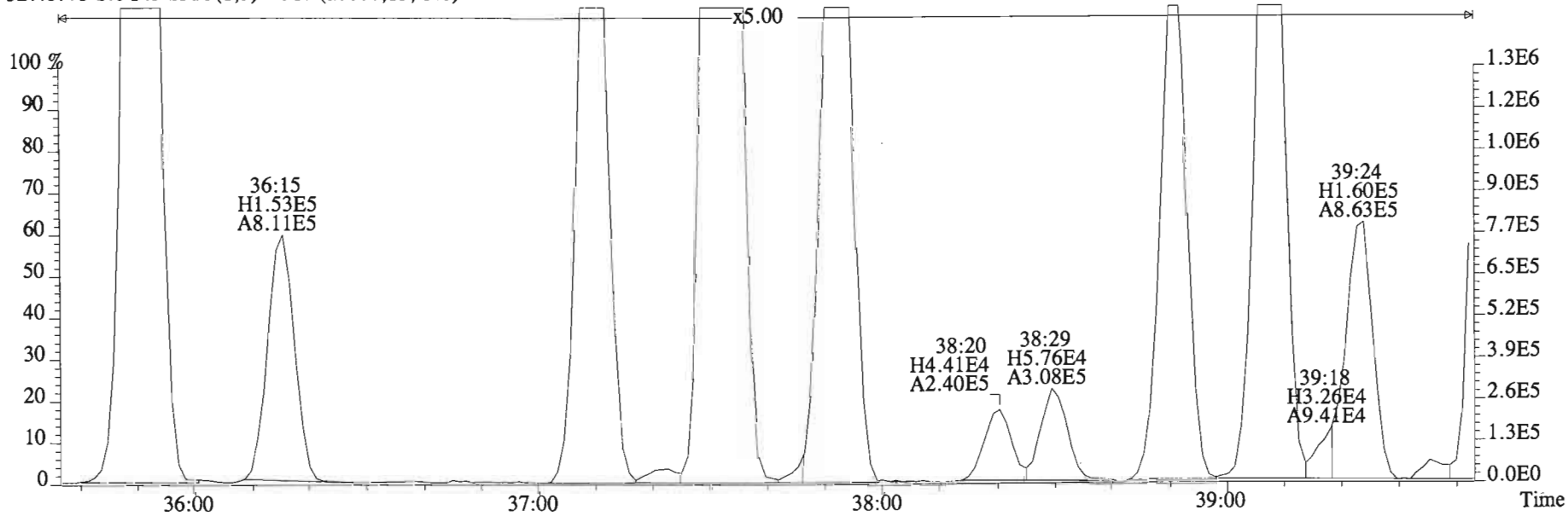
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



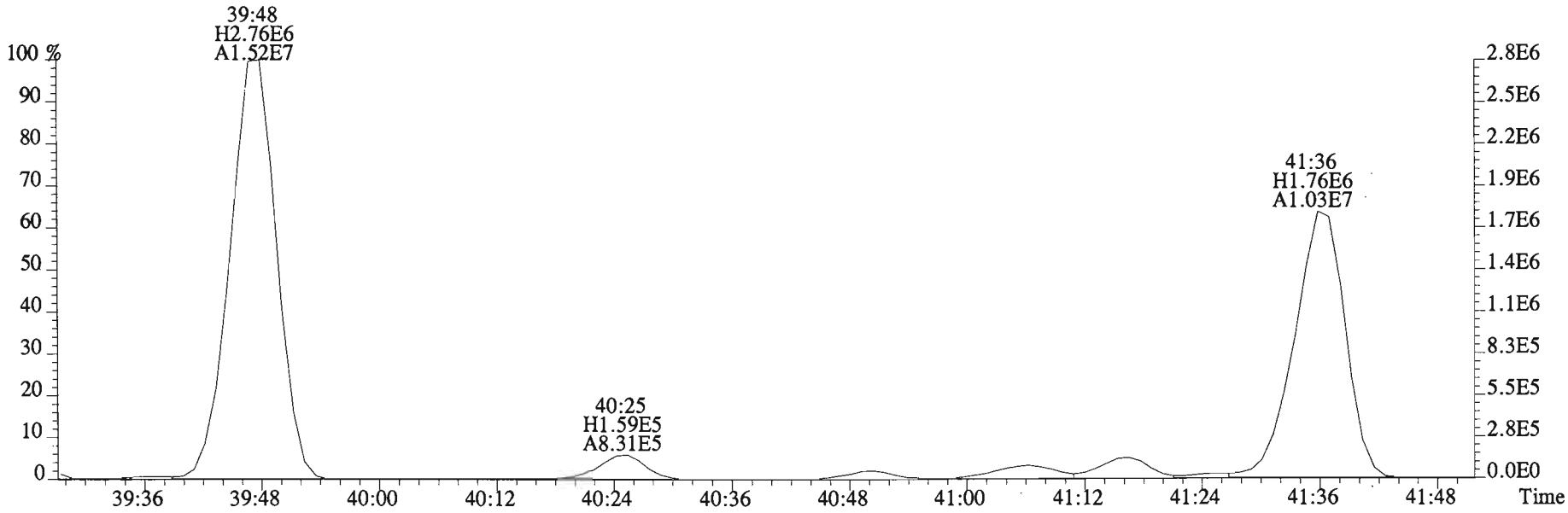
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



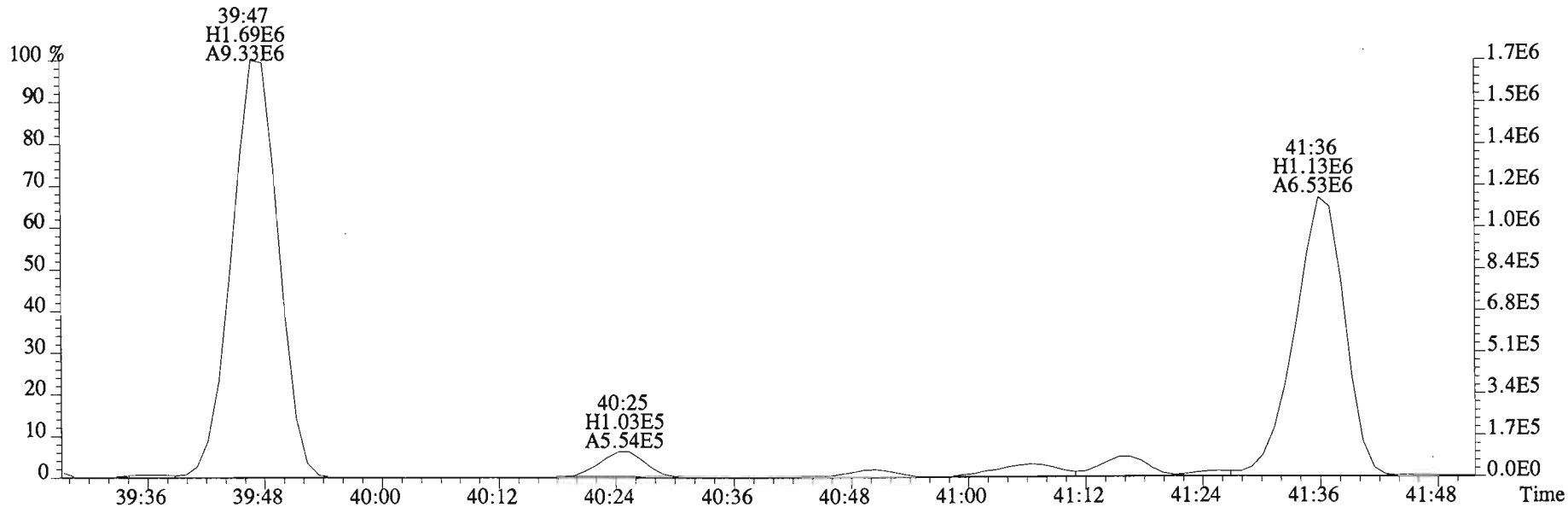
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



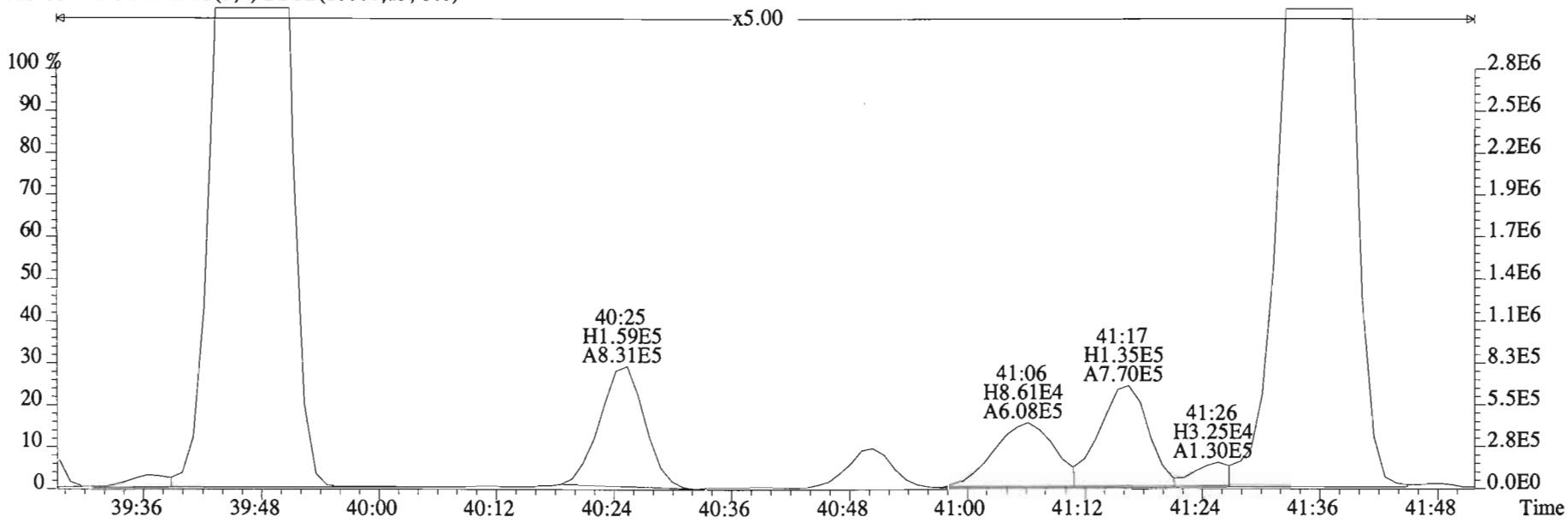
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



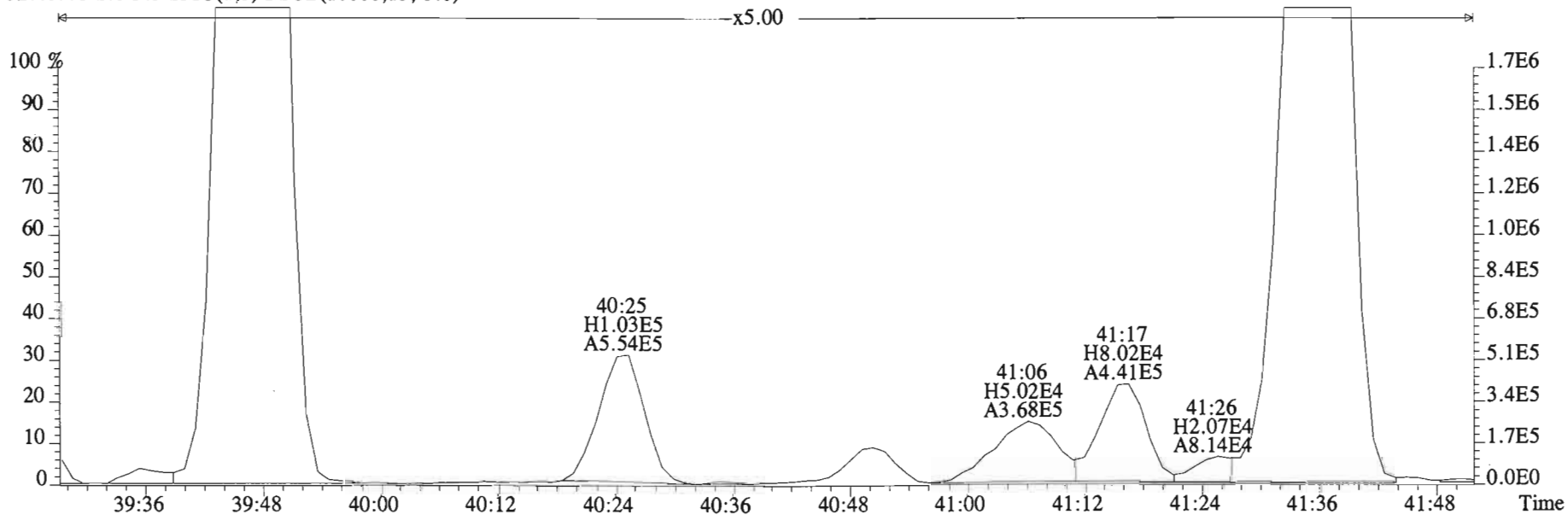
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



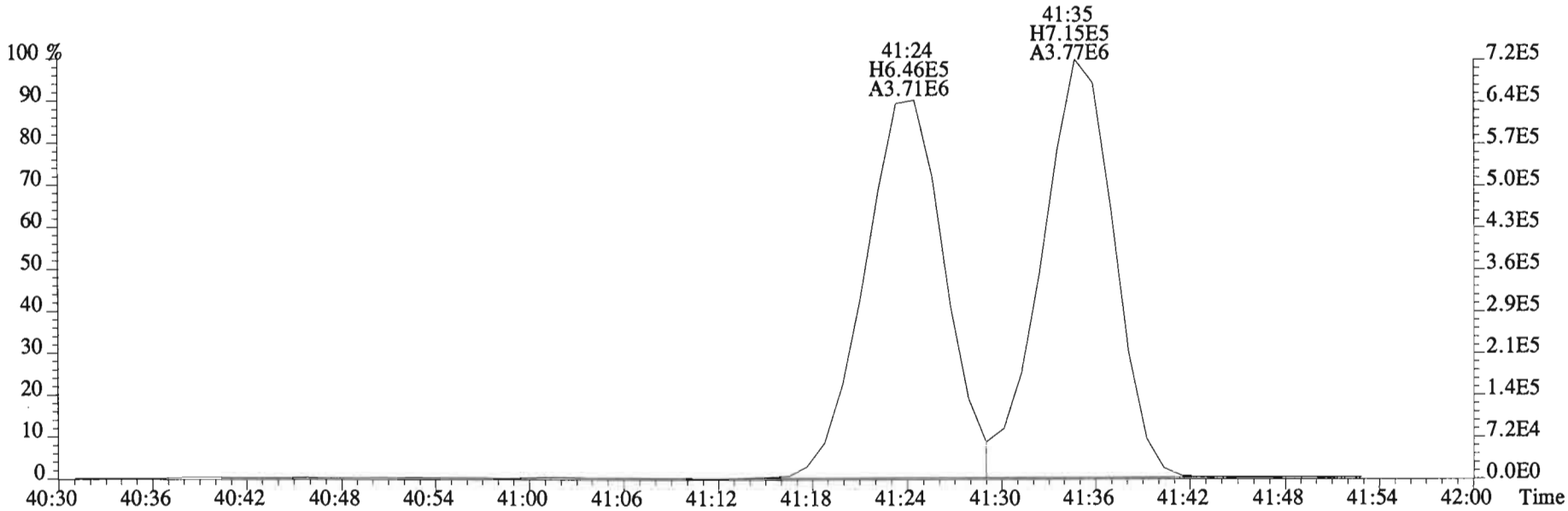
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



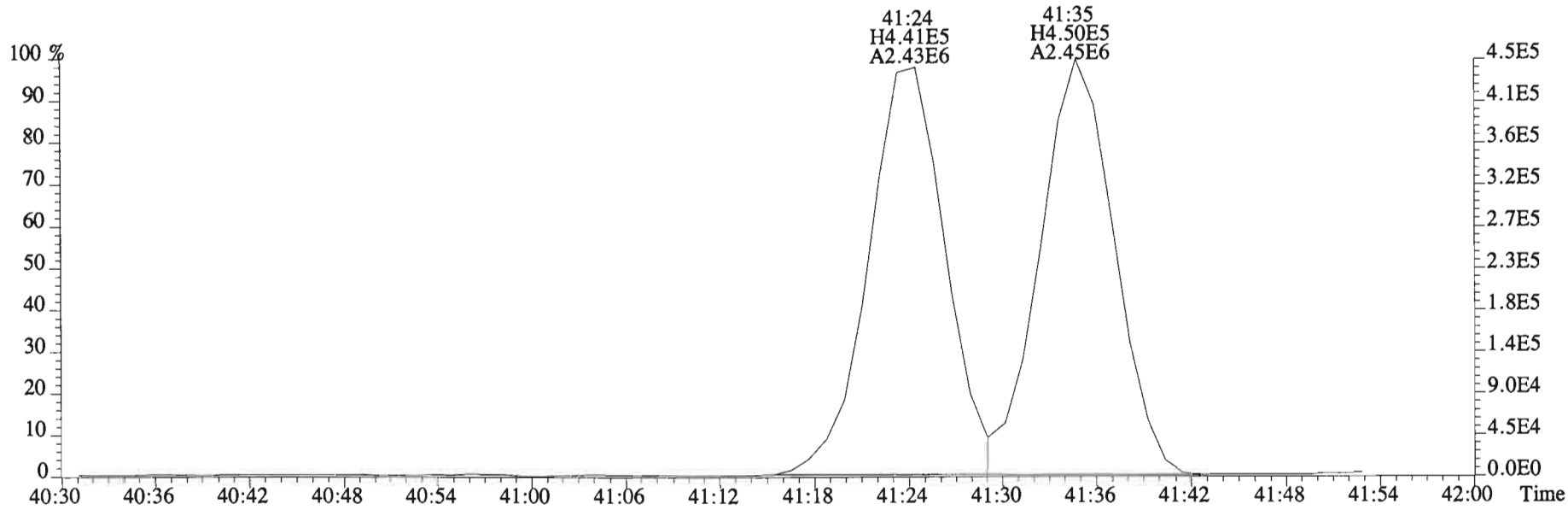
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



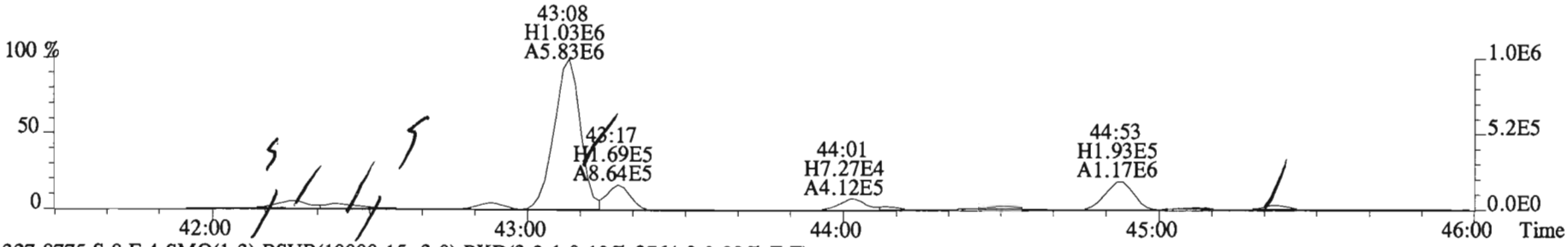
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1792.0,0.00%,F,F)



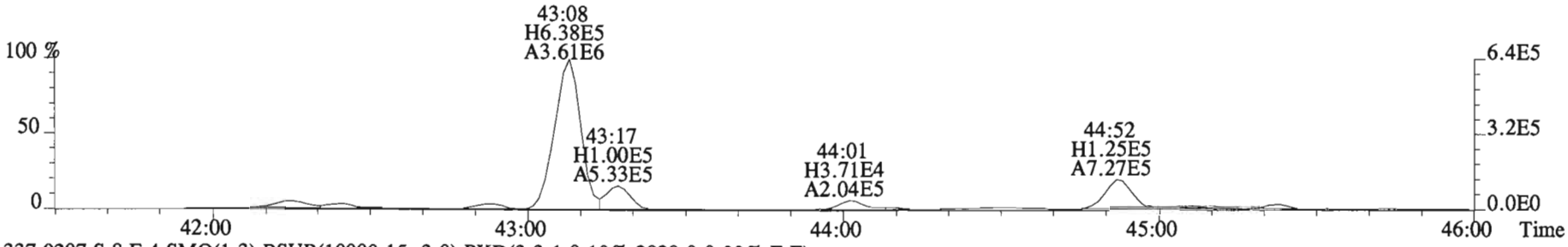
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1612.0,0.00%,F,F)



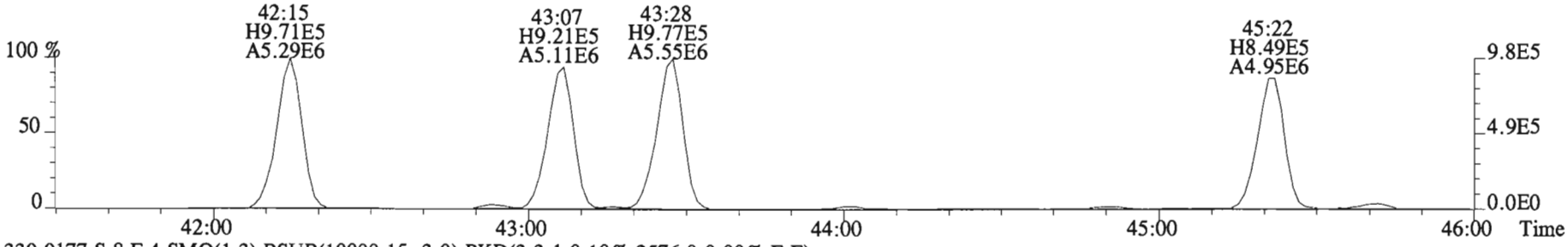
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4648.0,0.00%,F,F)



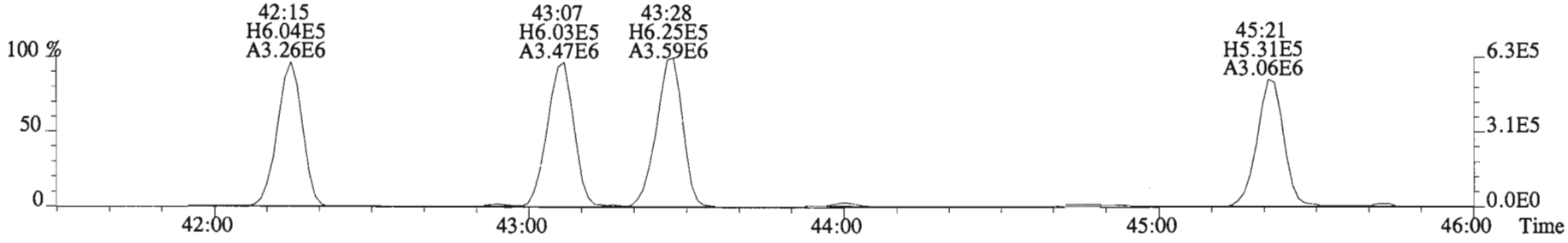
327.8775 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3764.0,0.00%,F,F)



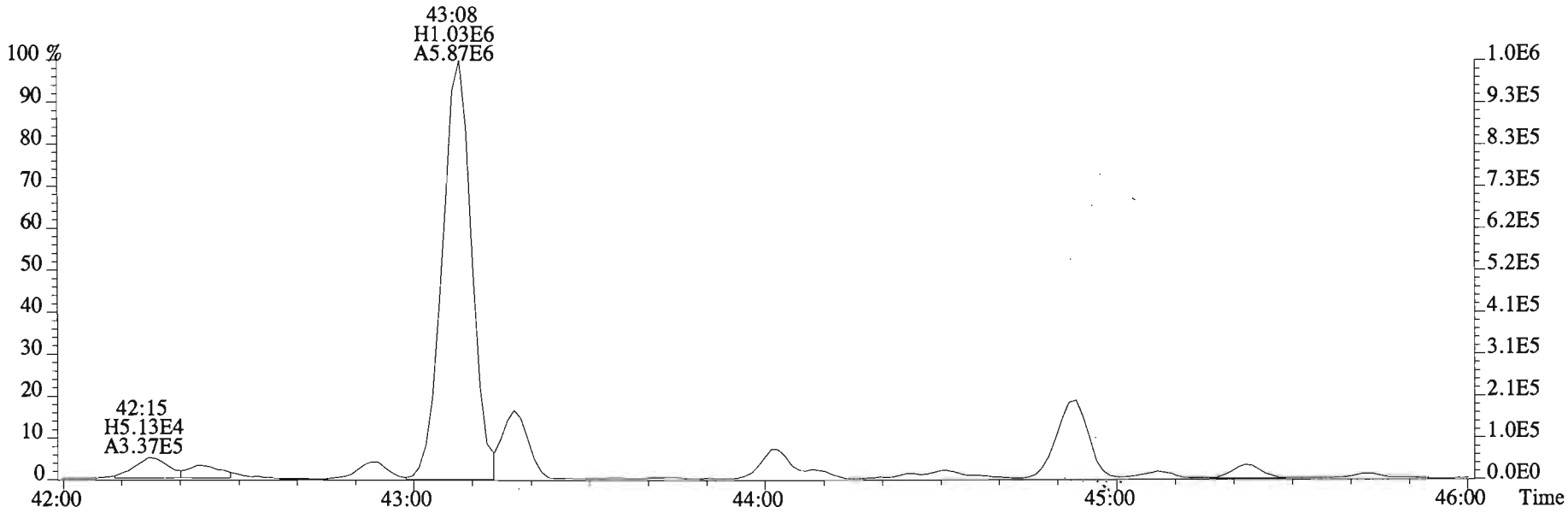
337.9207 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2828.0,0.00%,F,F)



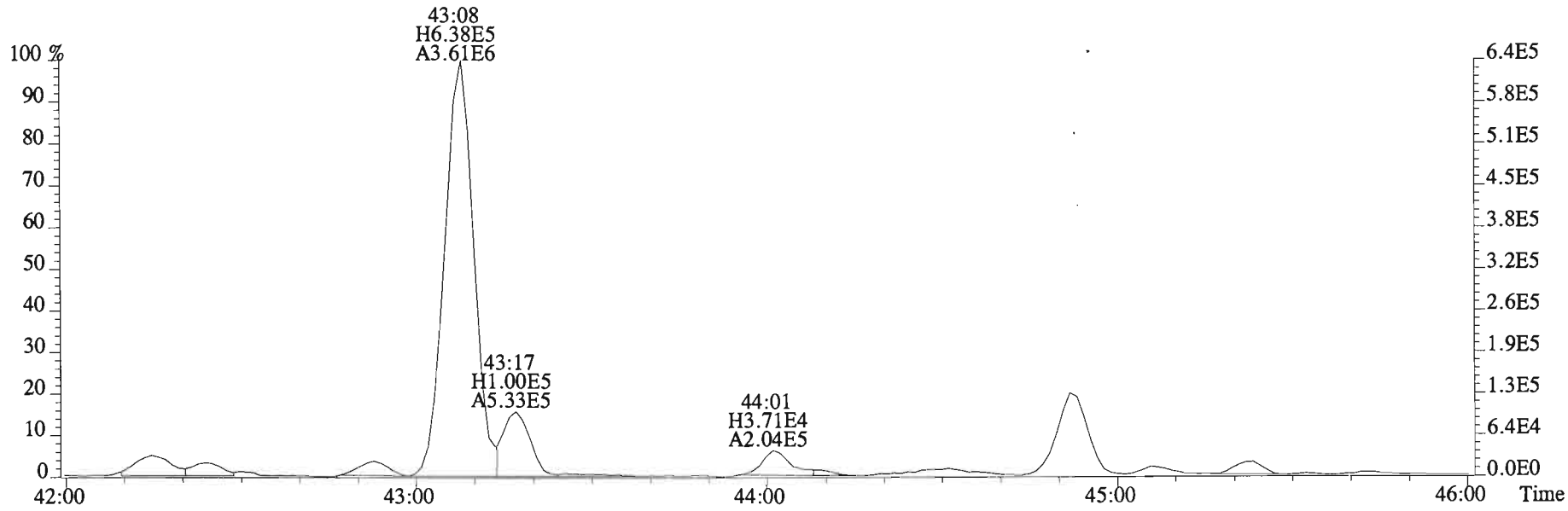
339.9177 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2576.0,0.00%,F,F)



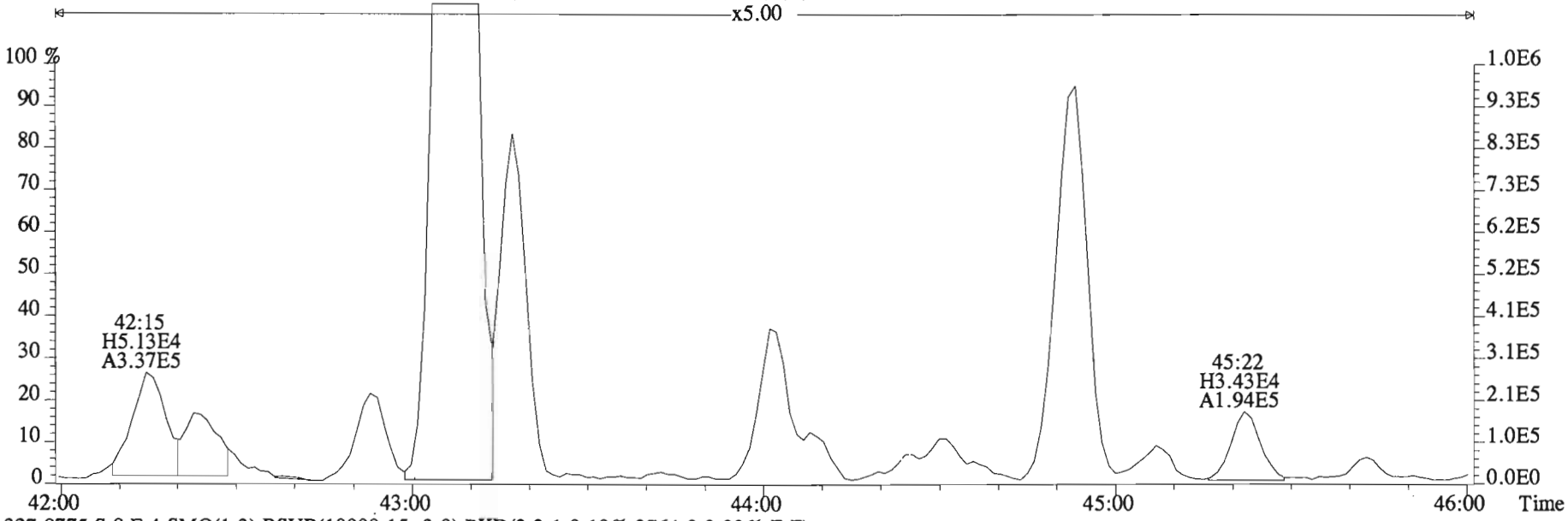
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4648.0,0.00%,F,F)



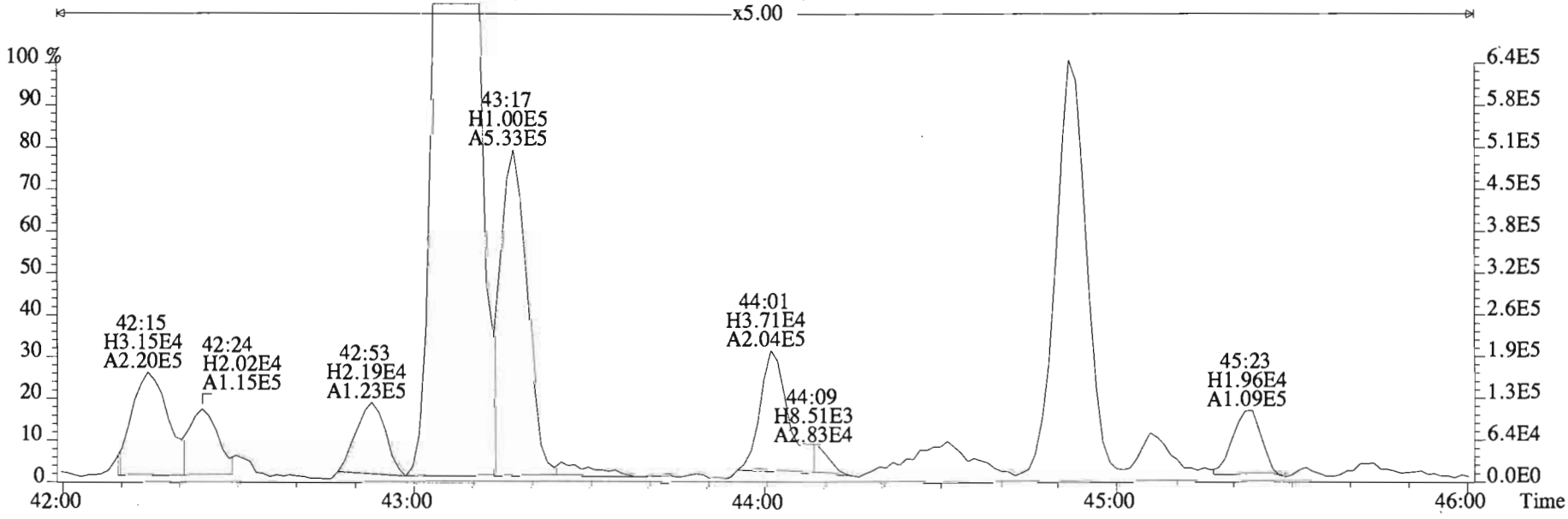
327.8775 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3764.0,0.00%,F,F)



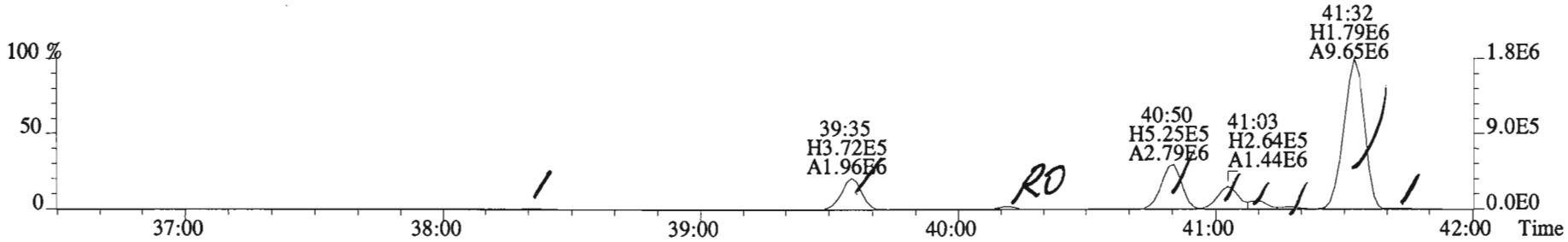
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4648.0,0.00%,F,F)



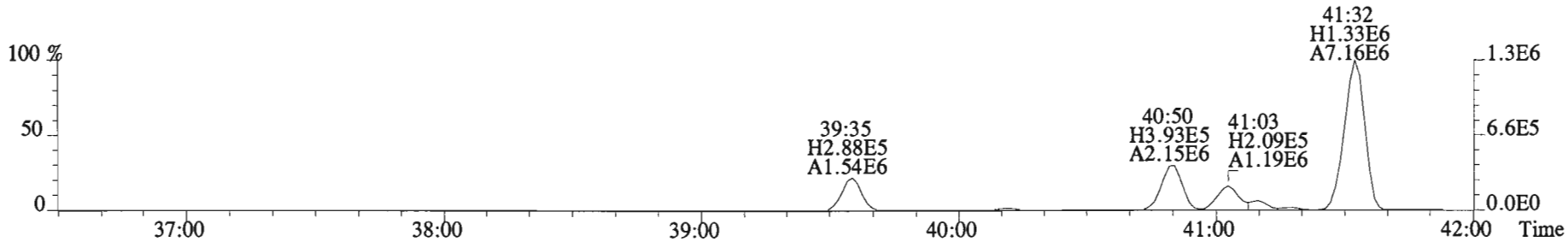
327.8775 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3764.0,0.00%,F,F)



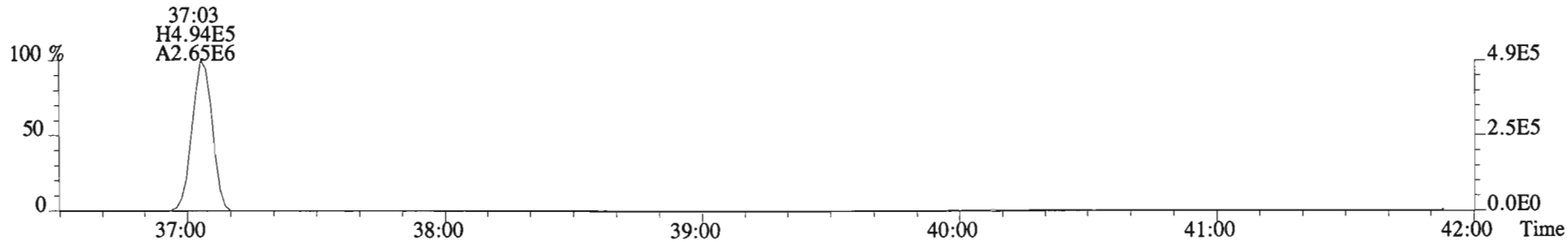
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1256.0,0.00%,F,F)



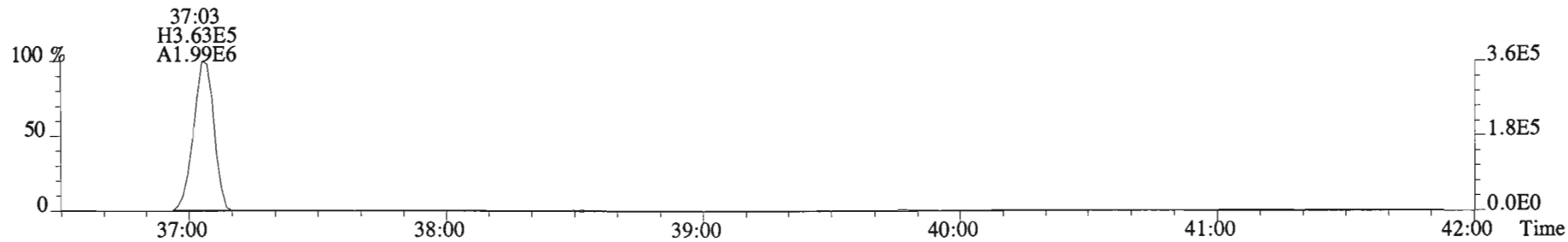
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1404.0,0.00%,F,F)



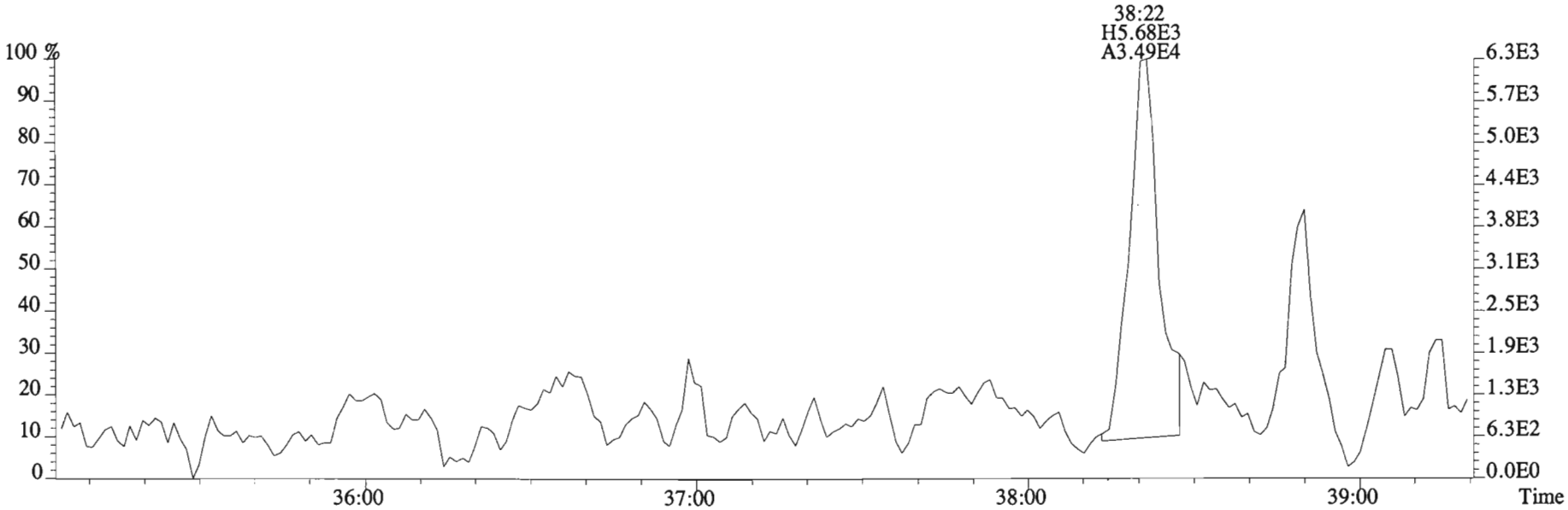
371.8817 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1496.0,0.00%,F,F)



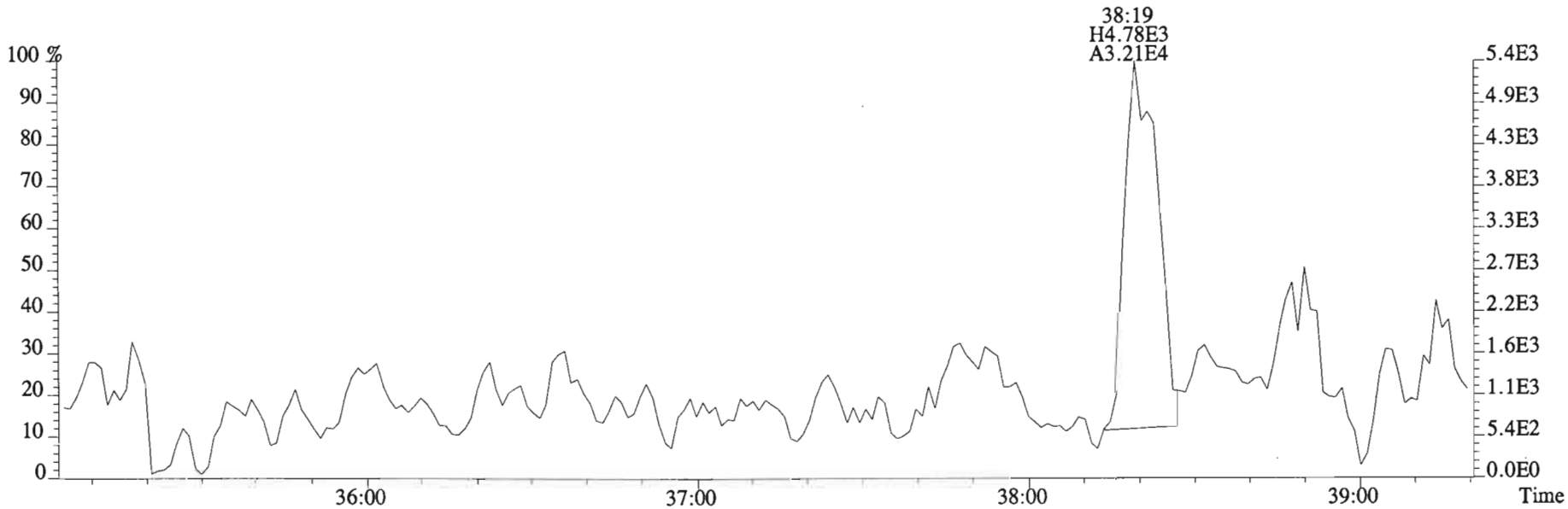
373.8788 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1444.0,0.00%,F,F)



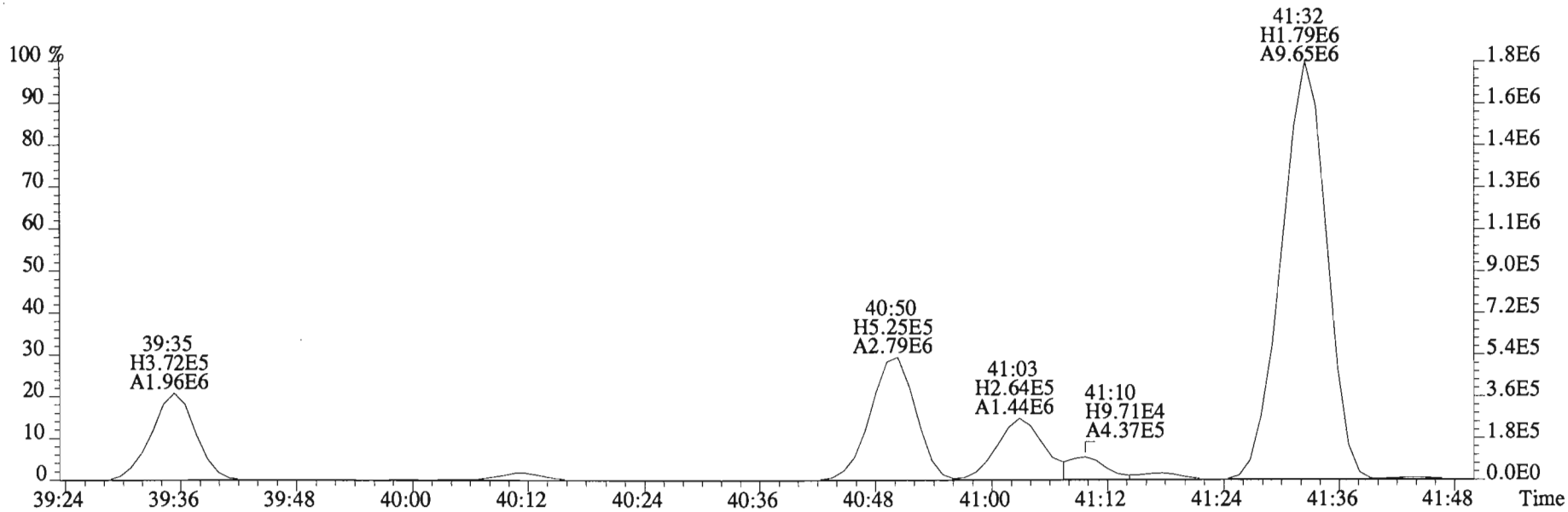
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1256.0,0.00%,F,F)



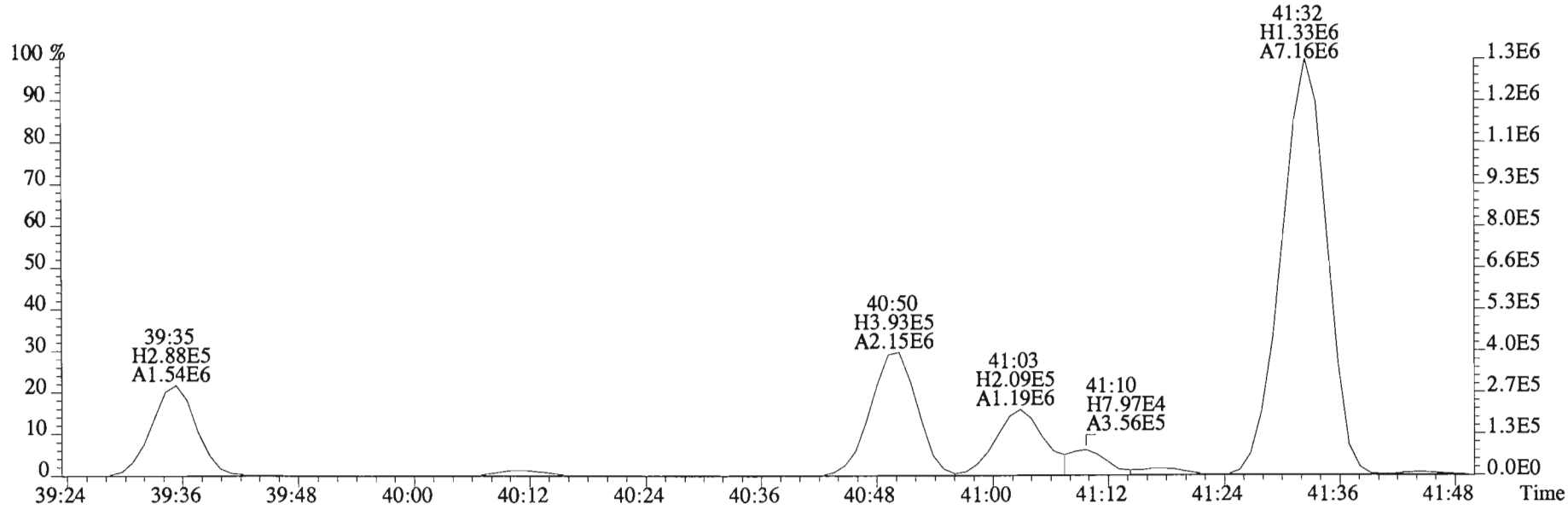
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1404.0,0.00%,F,F)



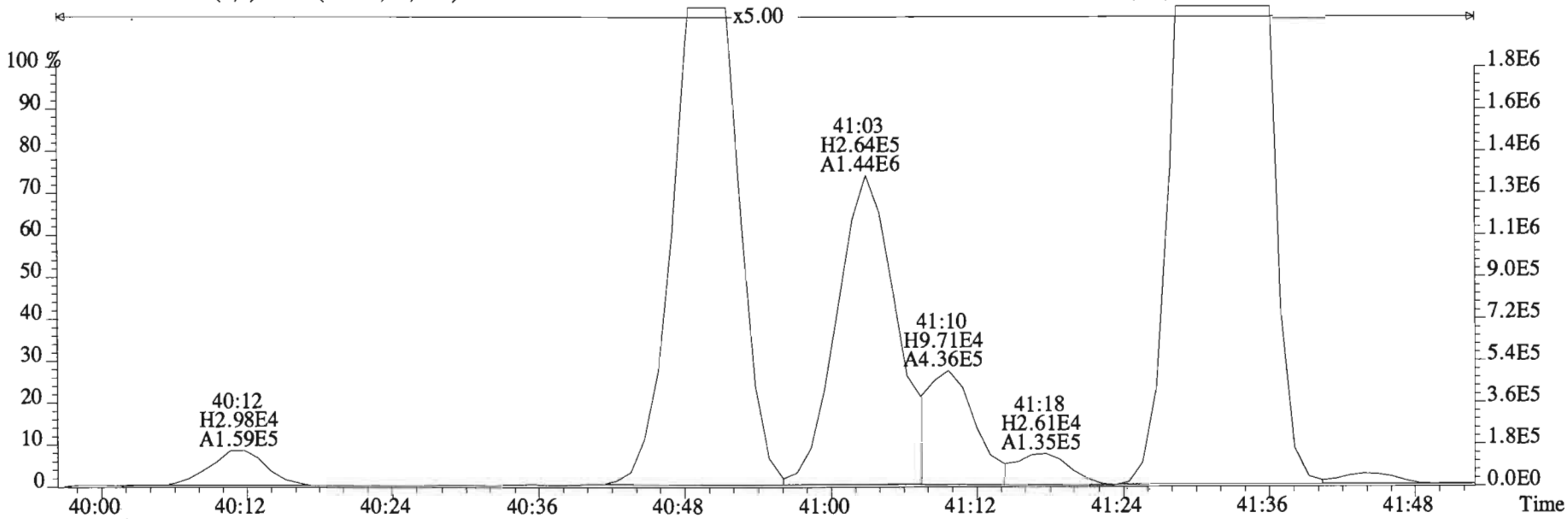
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1256.0,0.00%,F,F)



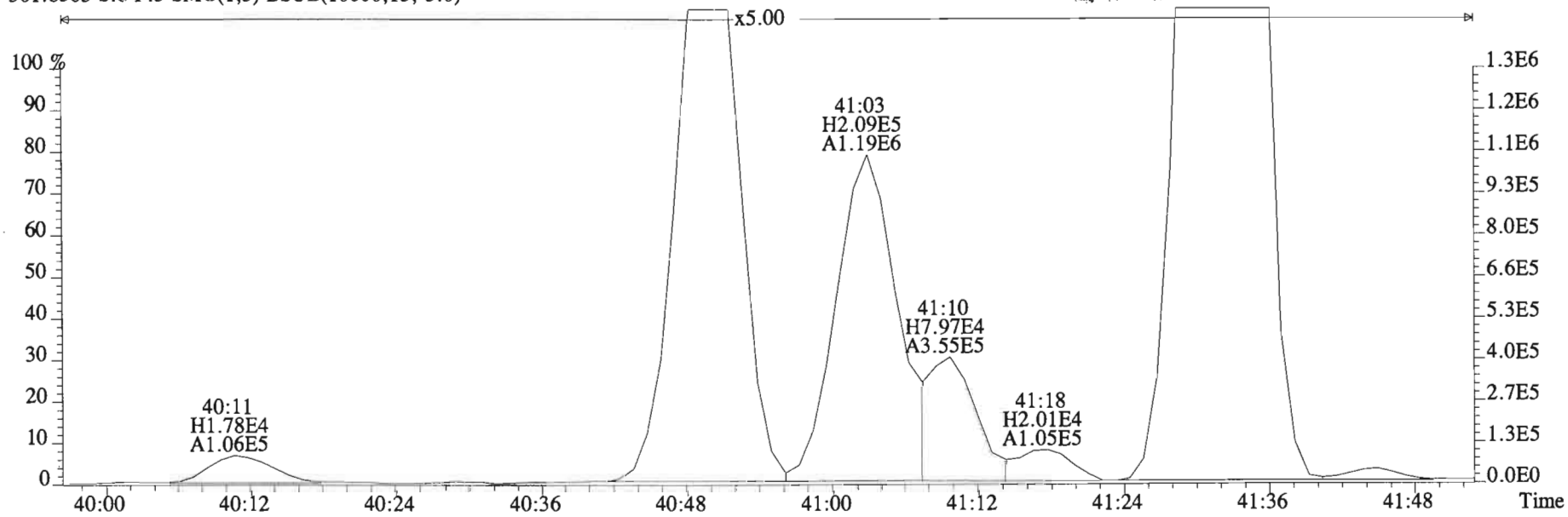
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1404.0,0.00%,F,F)



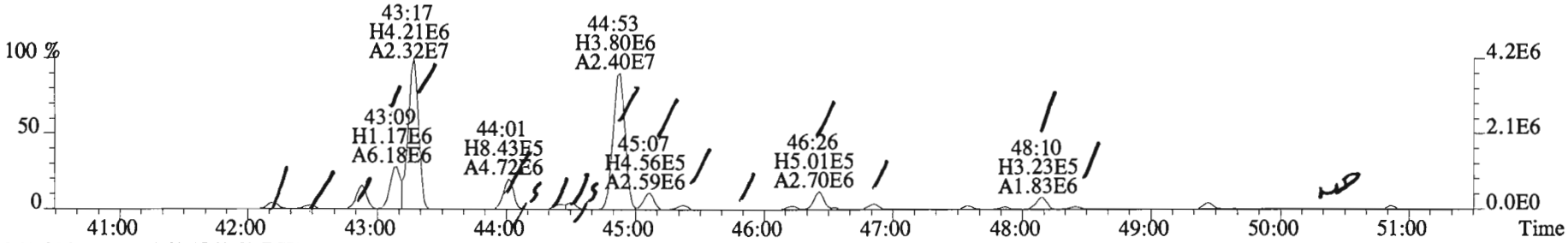
File:150205E1 #1-758 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



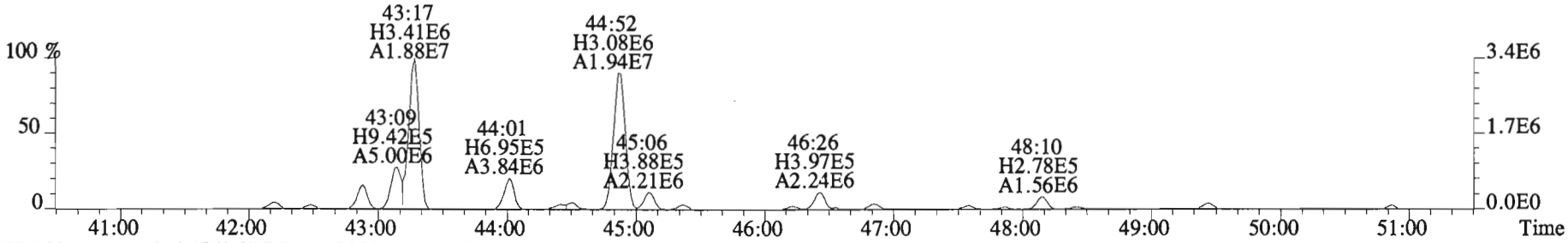
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



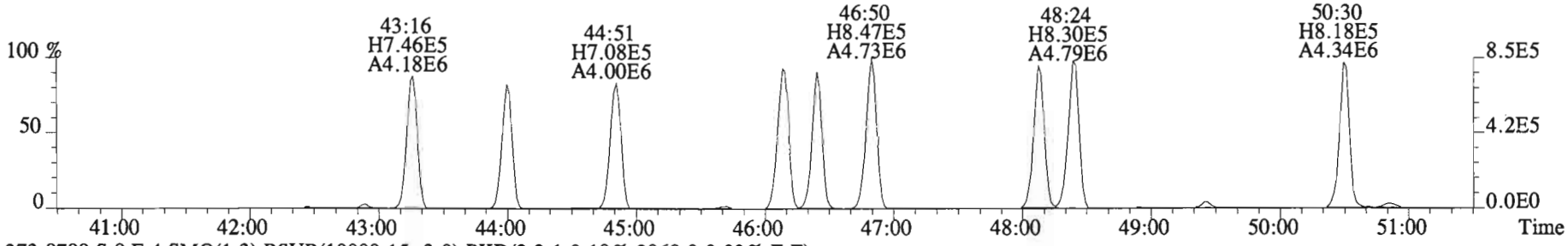
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3000.0,0.00%,F,F)



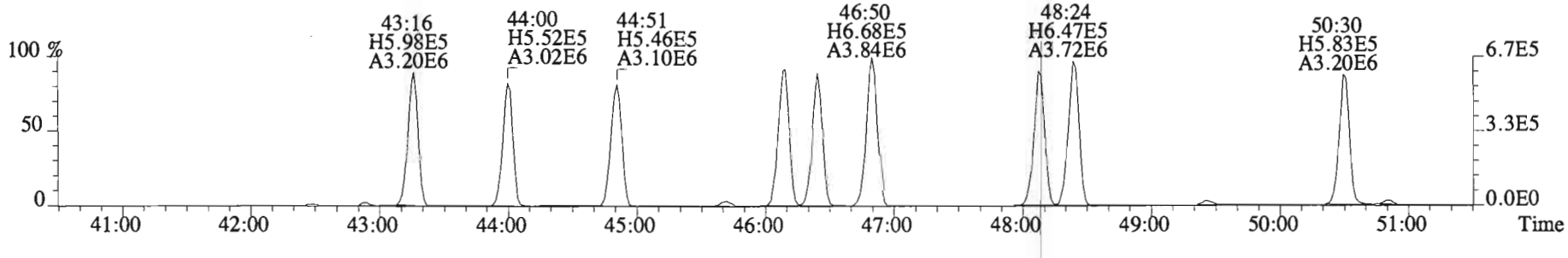
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2732.0,0.00%,F,F)



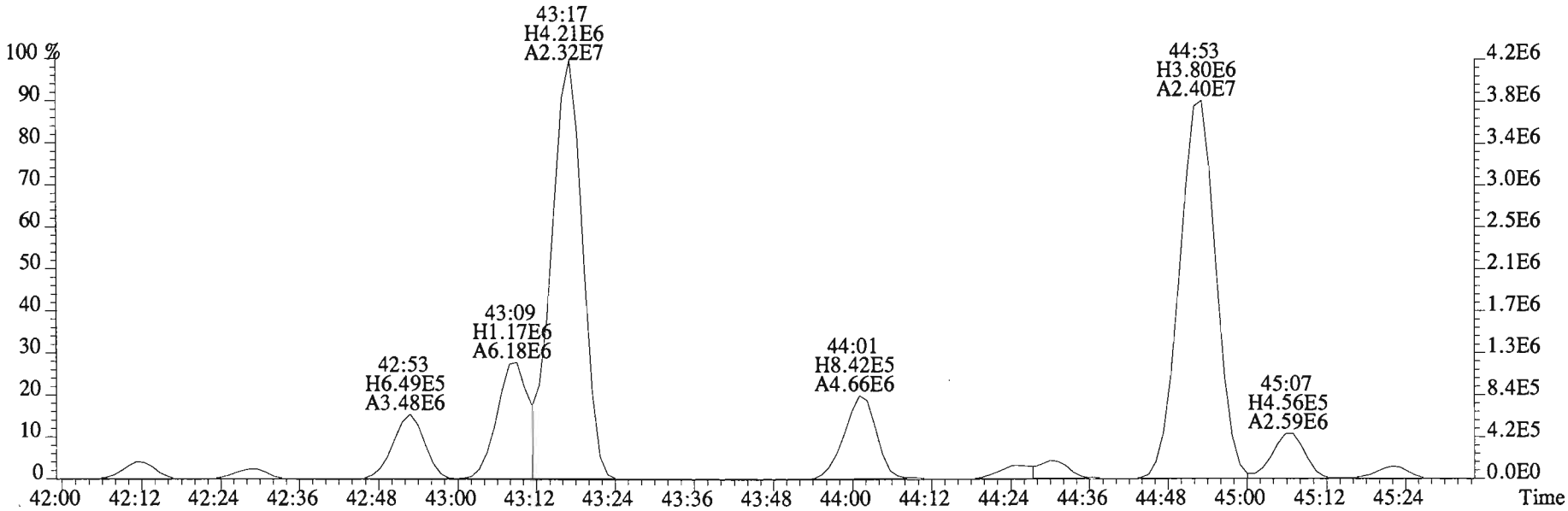
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2564.0,0.00%,F,F)



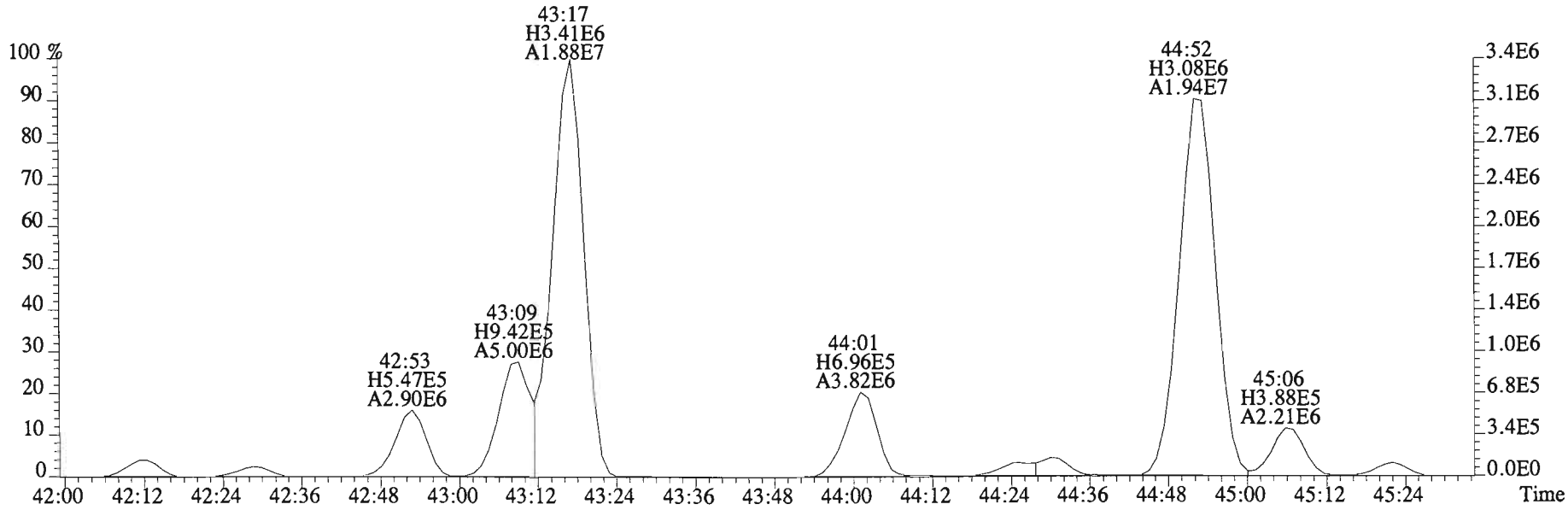
373.8788 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2068.0,0.00%,F,F)



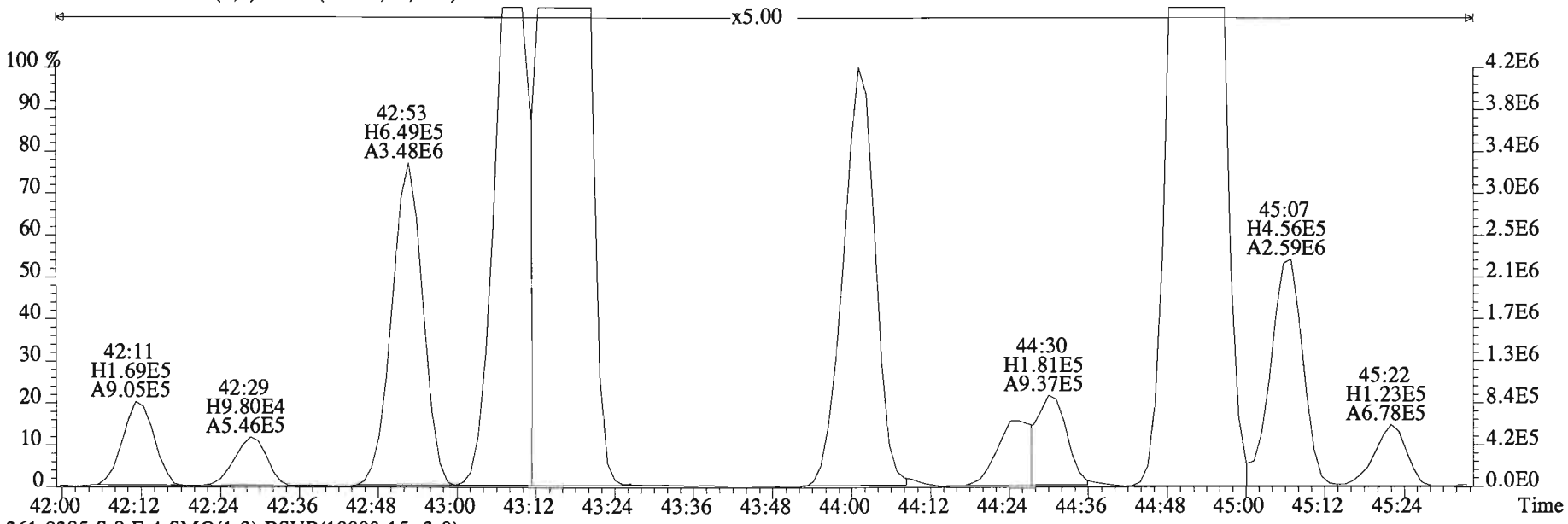
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



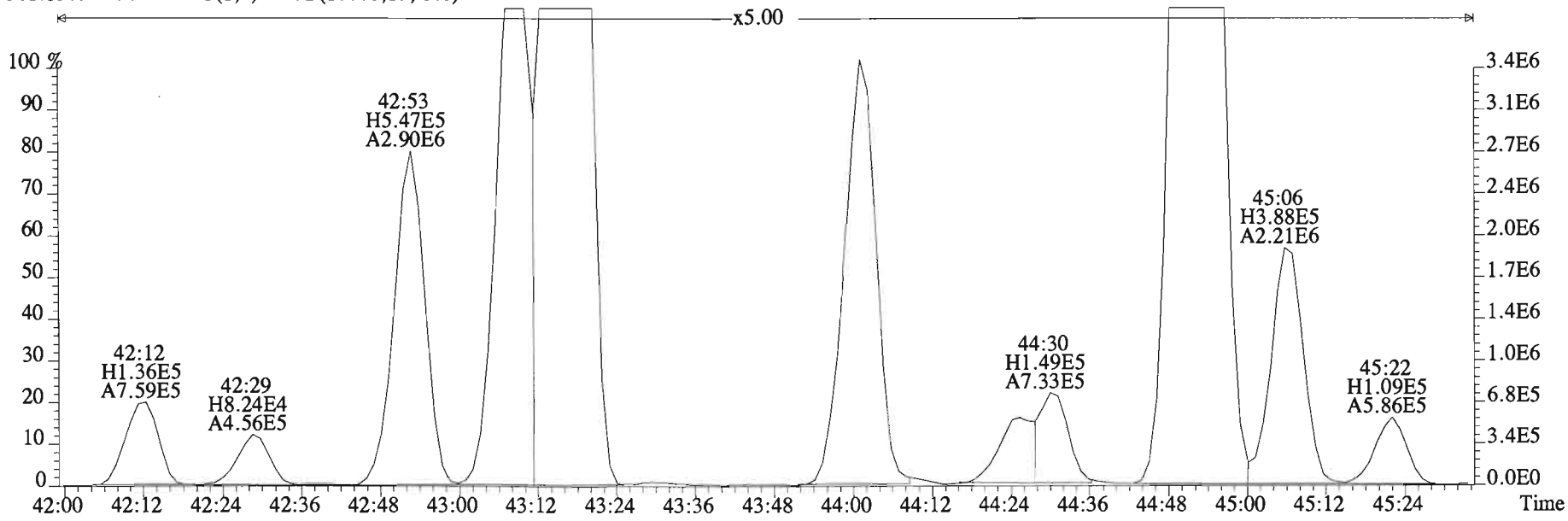
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



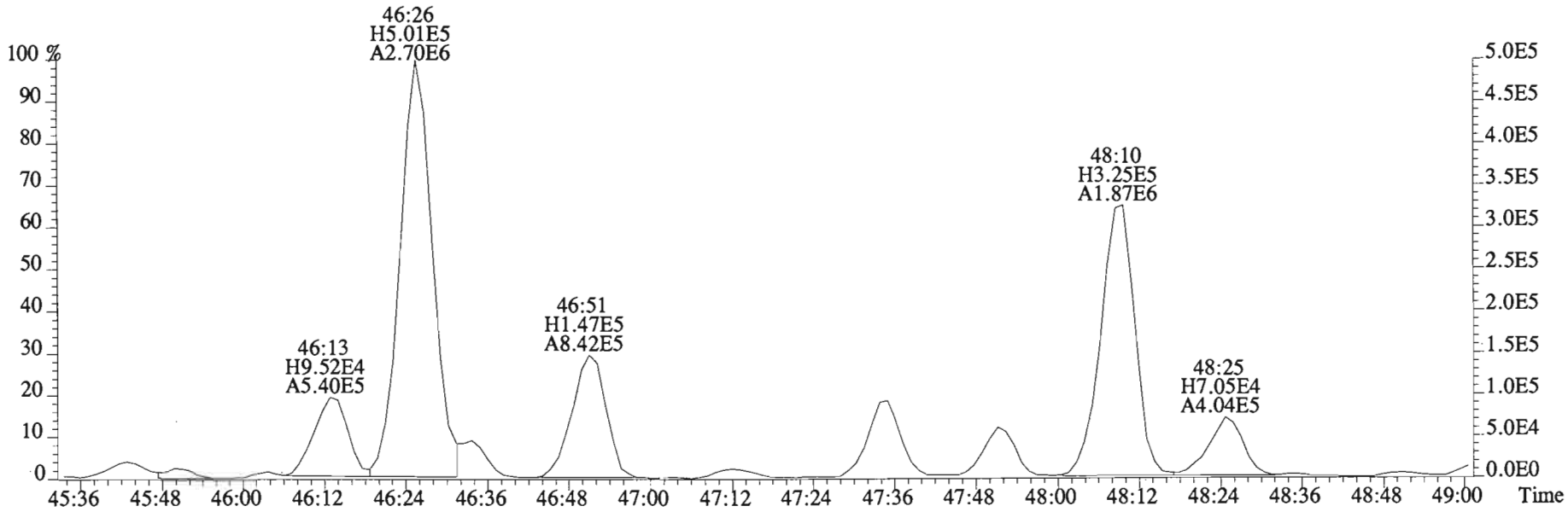
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



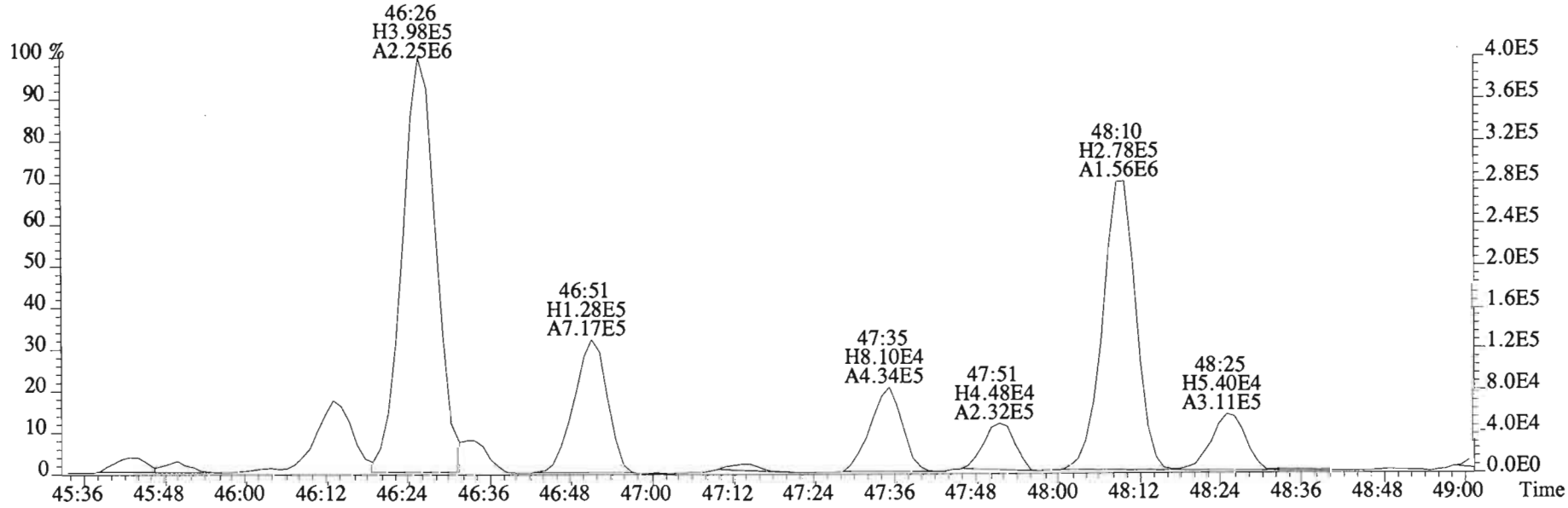
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



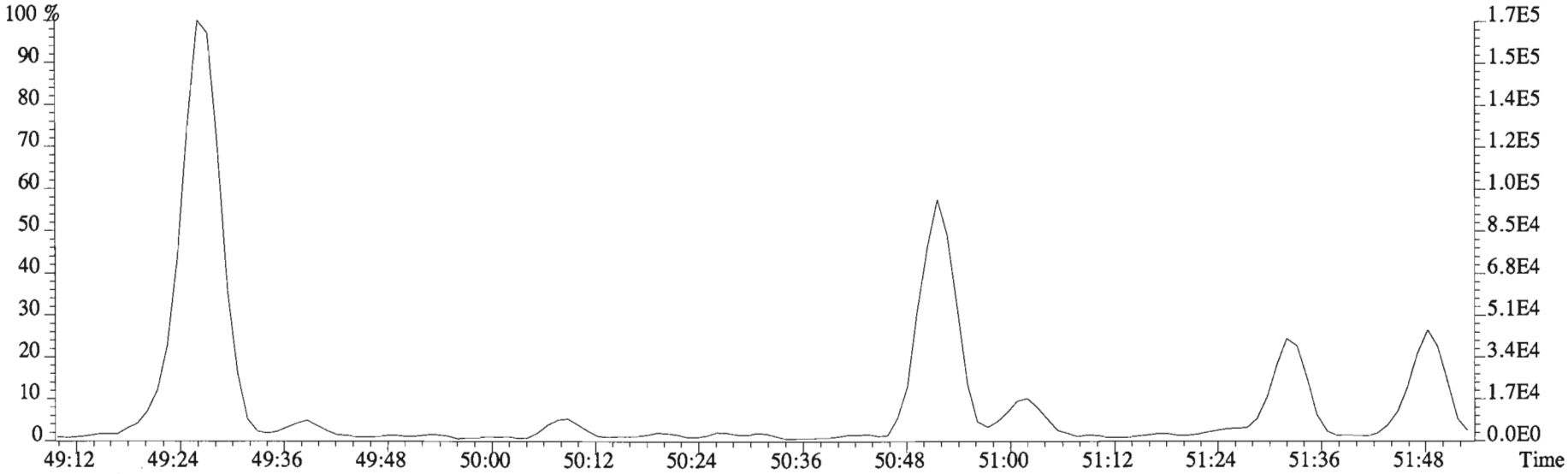
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



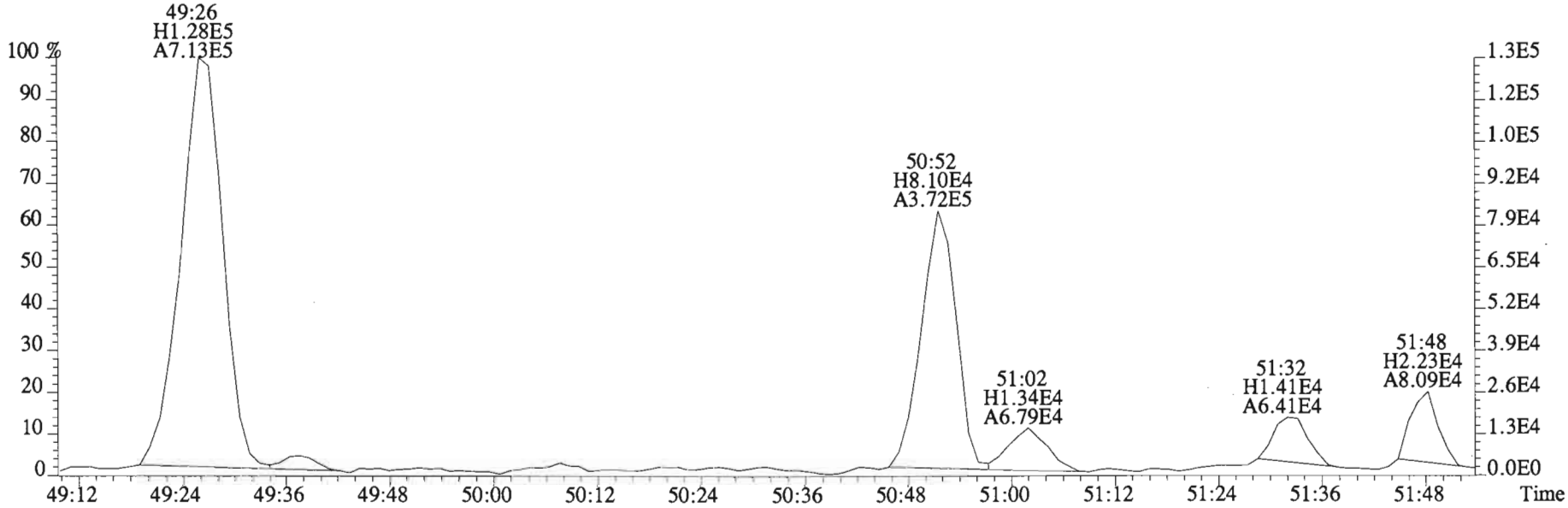
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



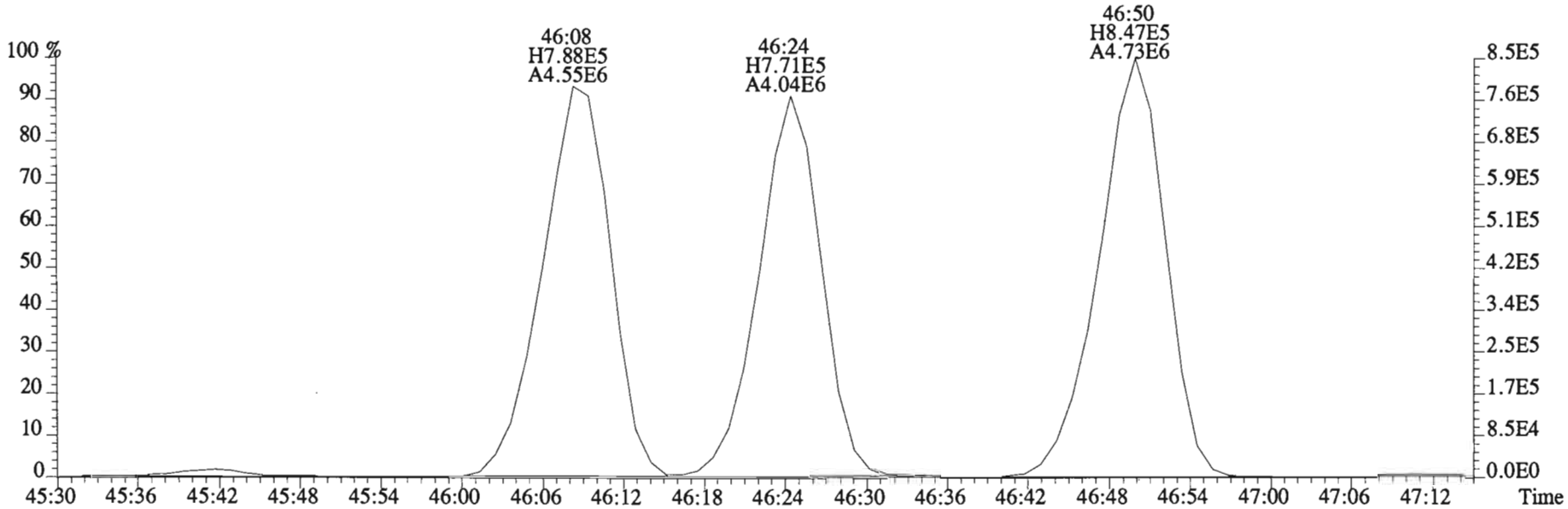
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



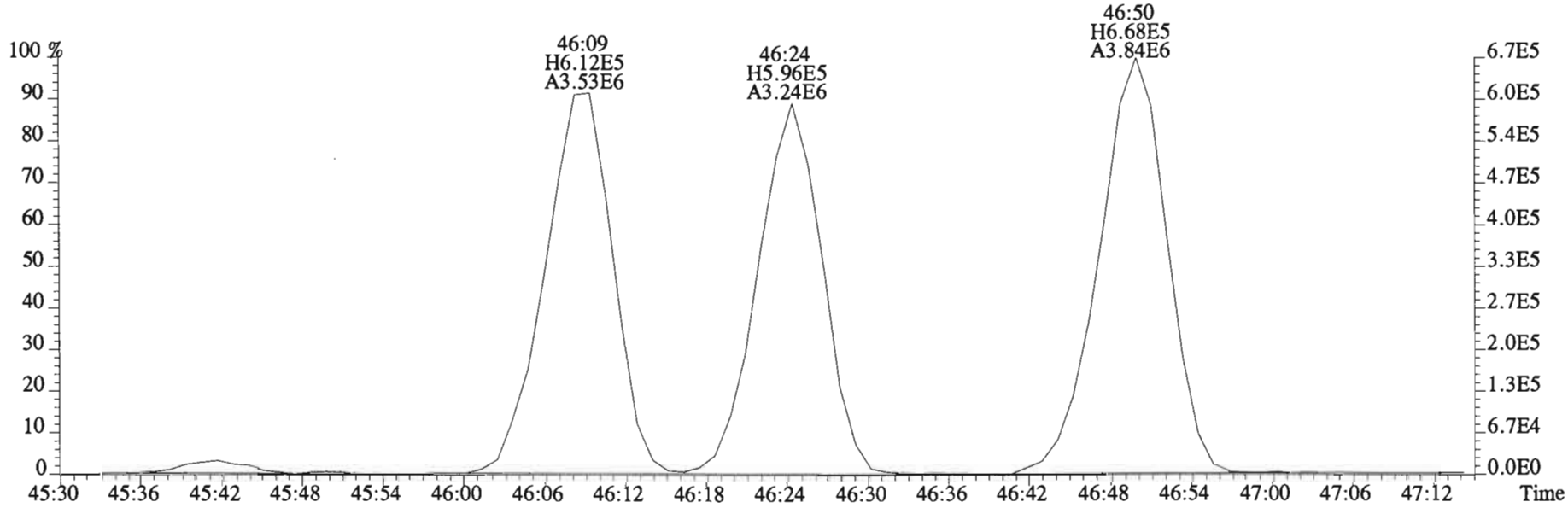
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0)



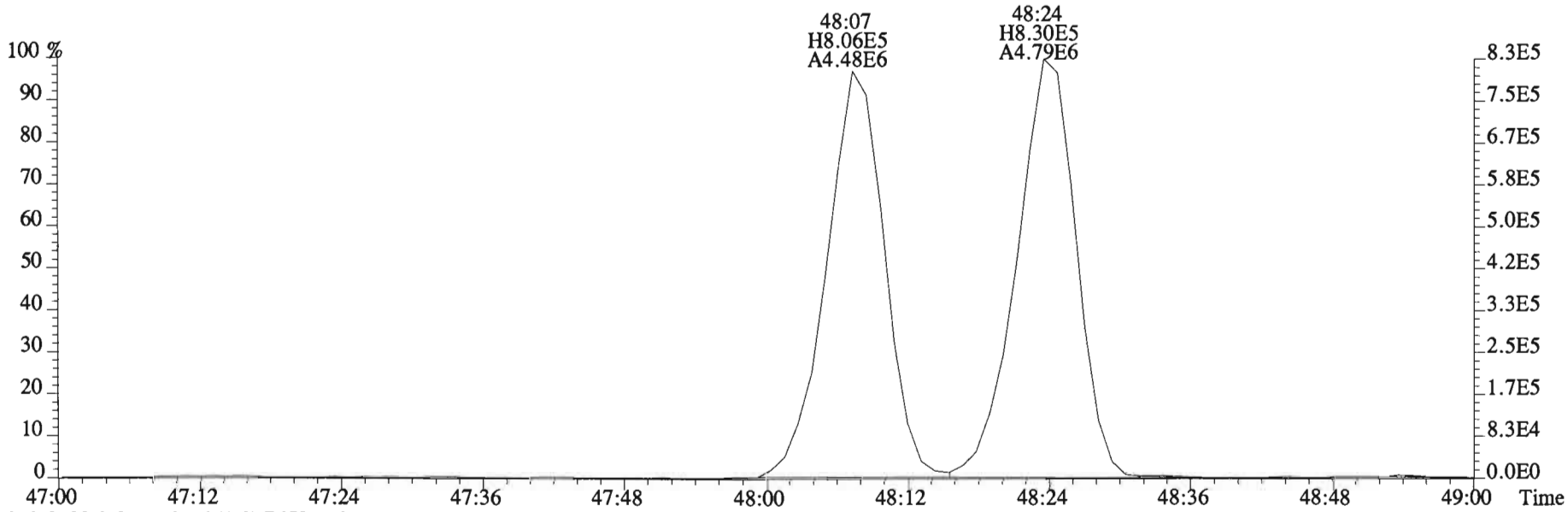
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2564.0,0.00%,F,F)



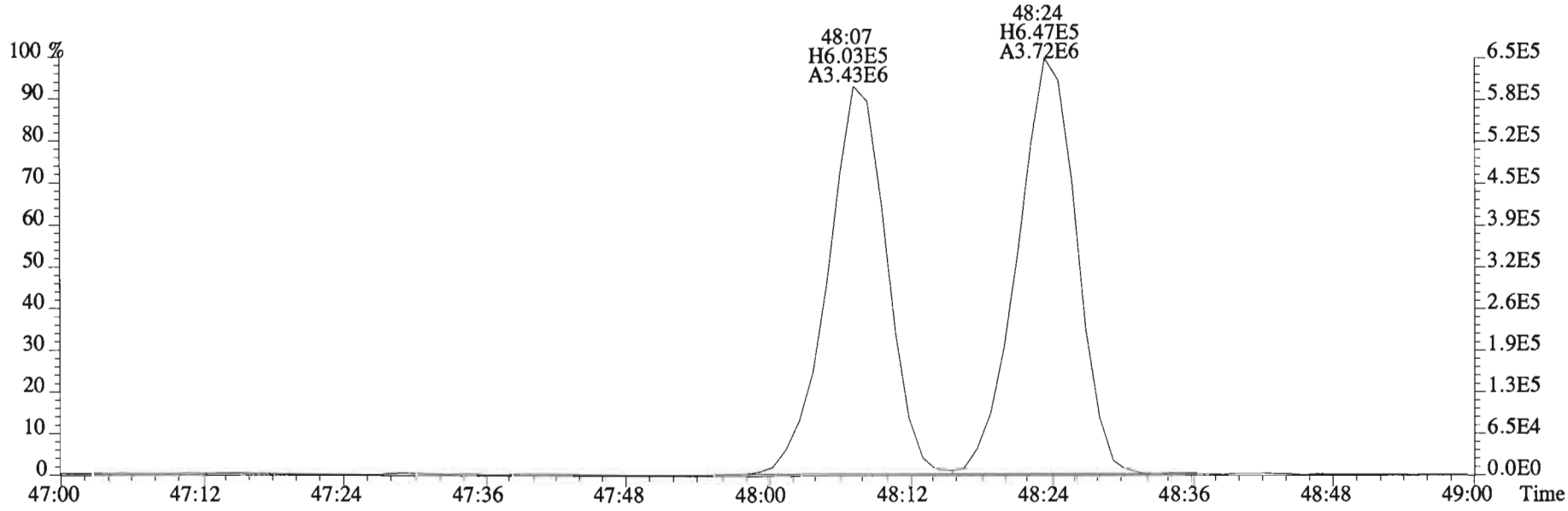
373.8788 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2068.0,0.00%,F,F)



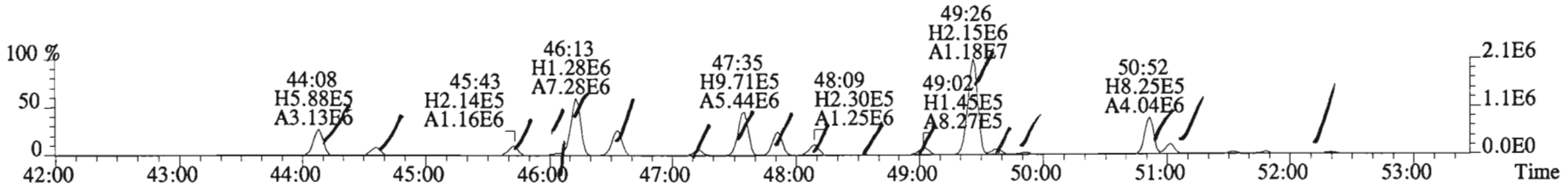
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2564.0,0.00%,F,F)



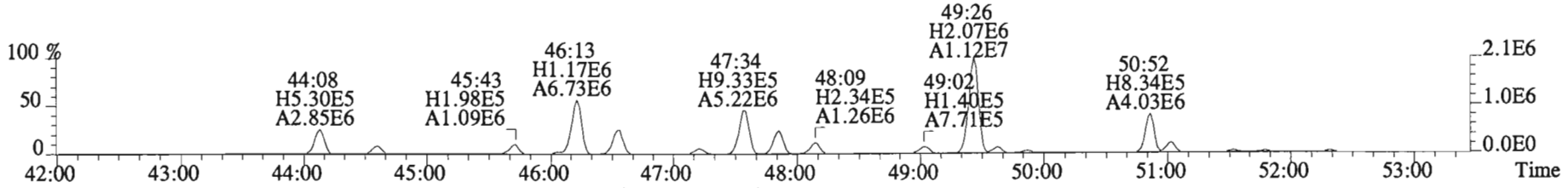
373.8788 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2068.0,0.00%,F,F)



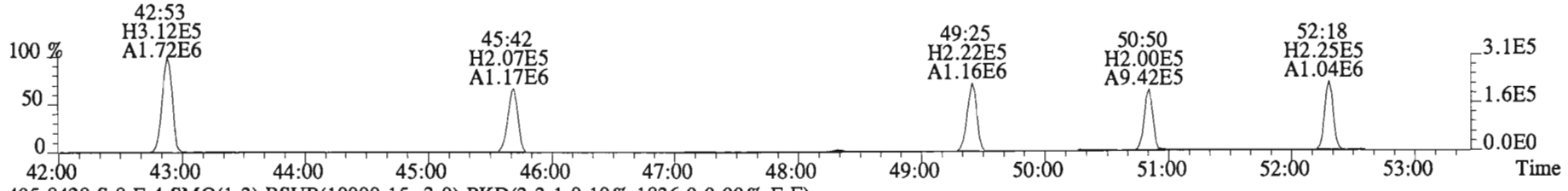
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2476.0,0.00%,F,F)



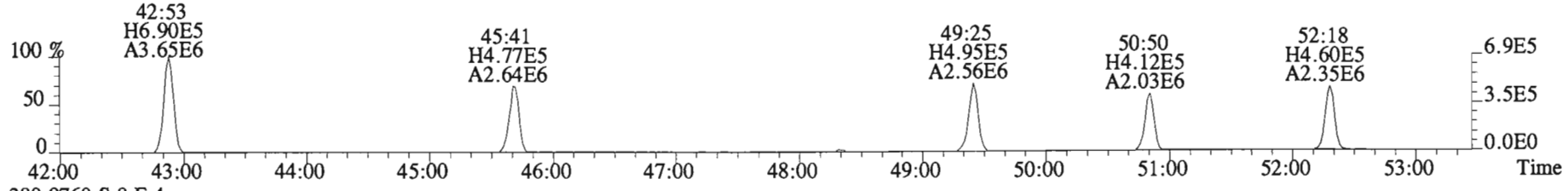
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1924.0,0.00%,F,F)



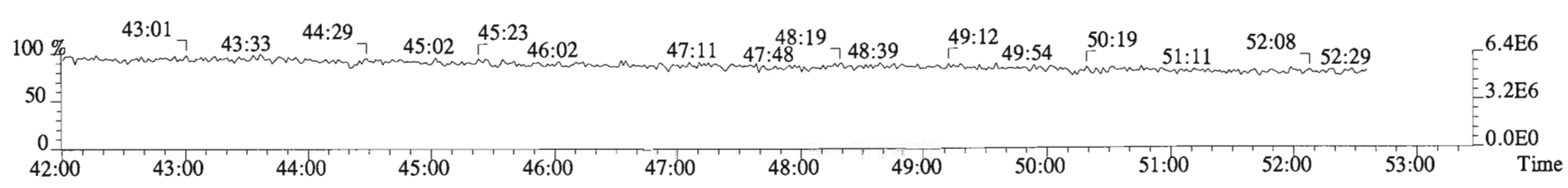
403.8457 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1684.0,0.00%,F,F)



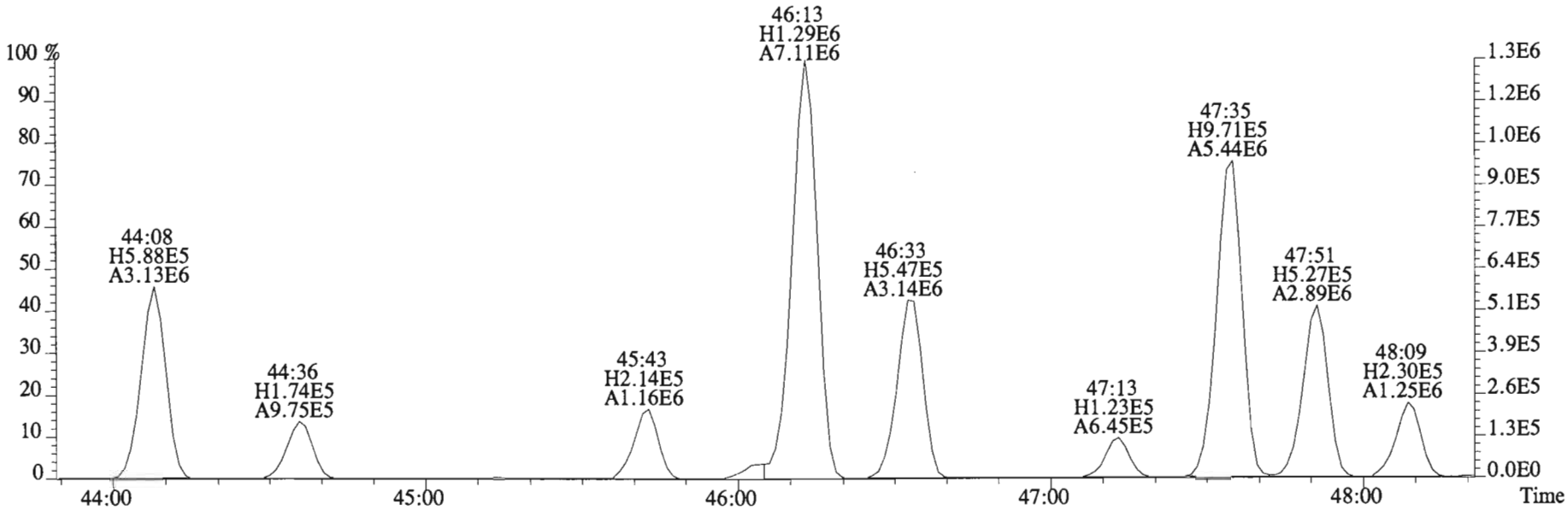
405.8428 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1836.0,0.00%,F,F)



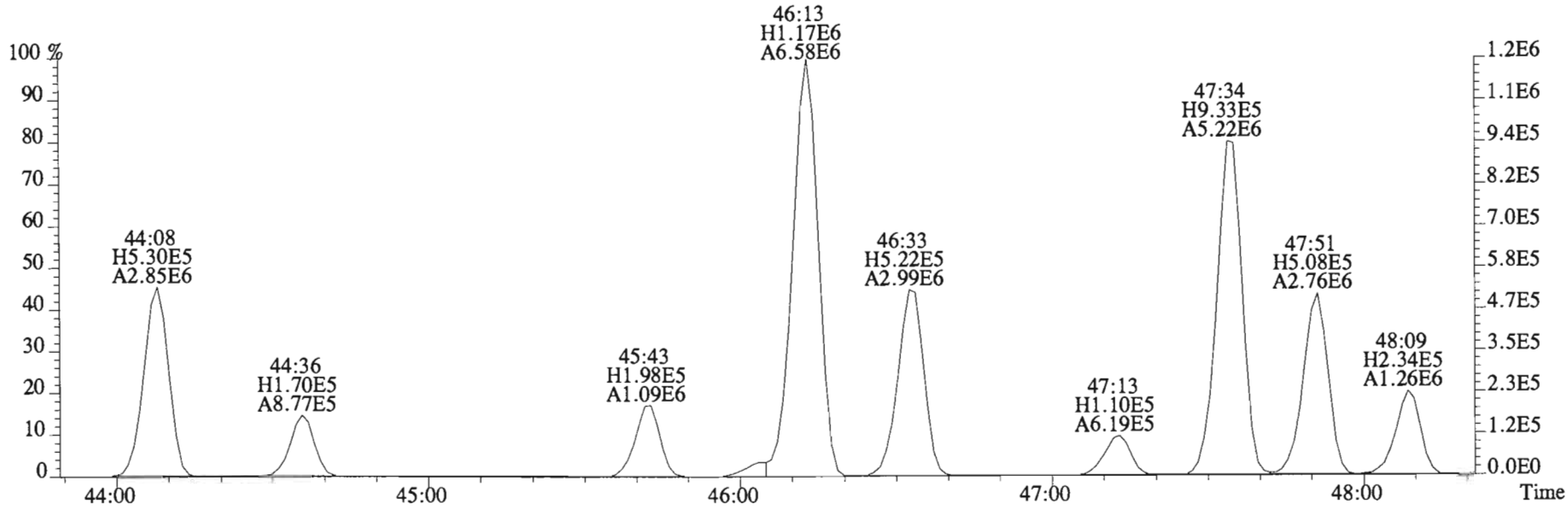
380.9760 S:8 F:4



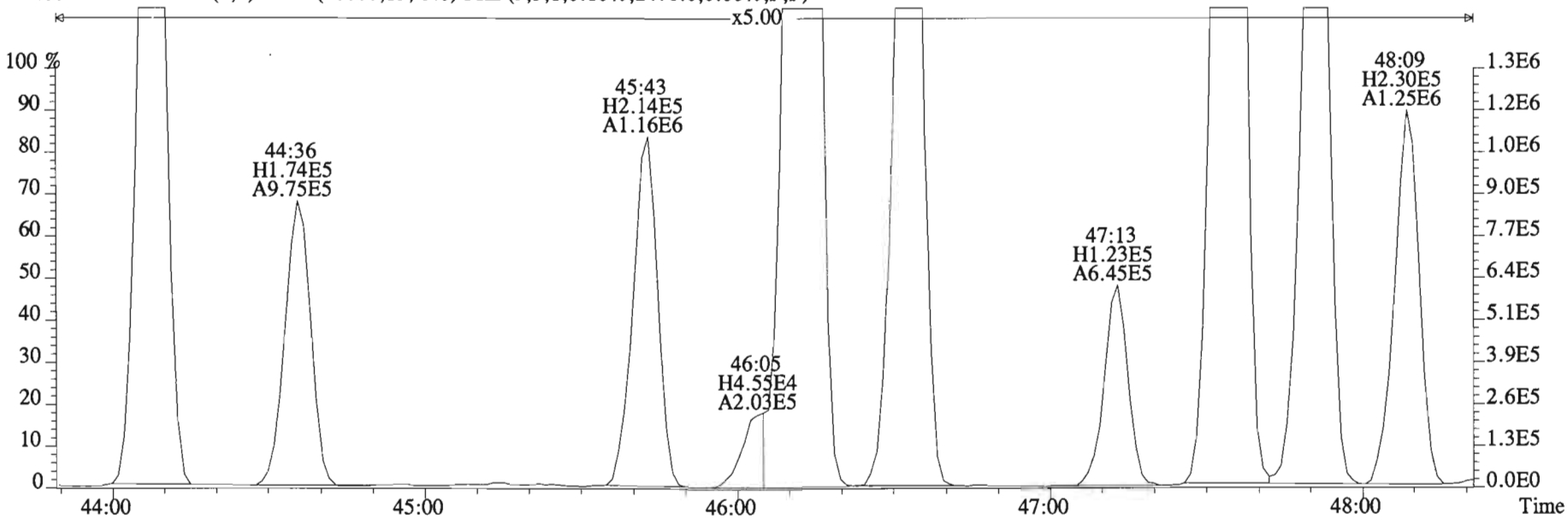
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2476.0,0.00%,F,F)



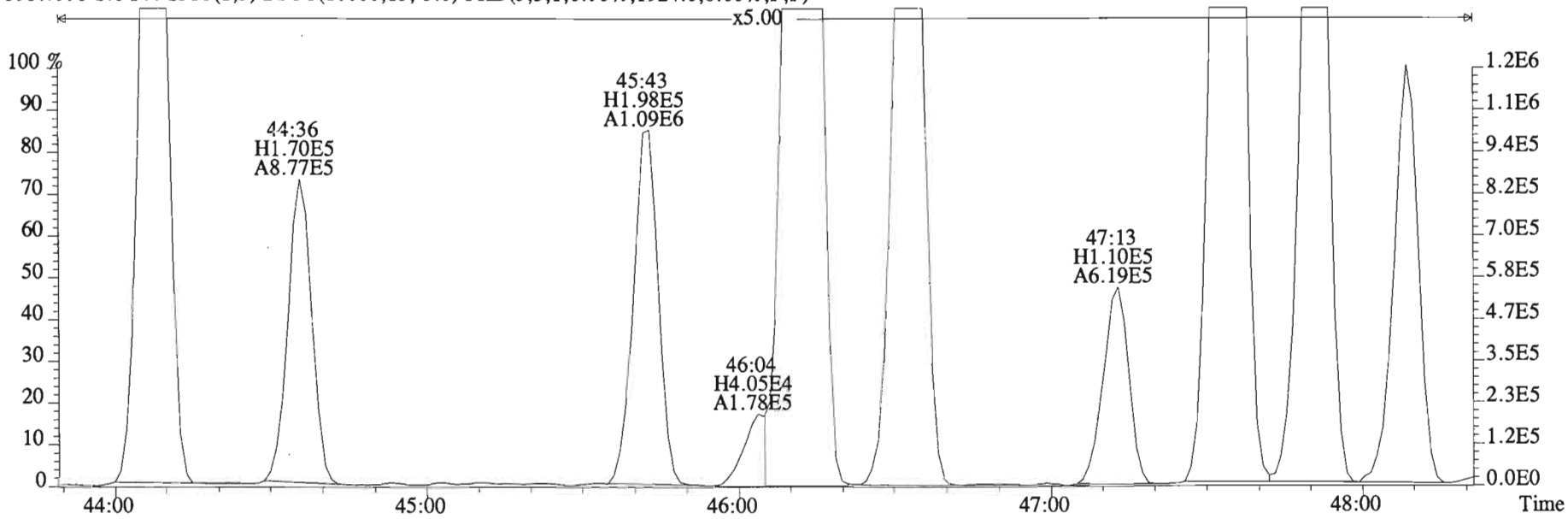
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1924.0,0.00%,F,F)



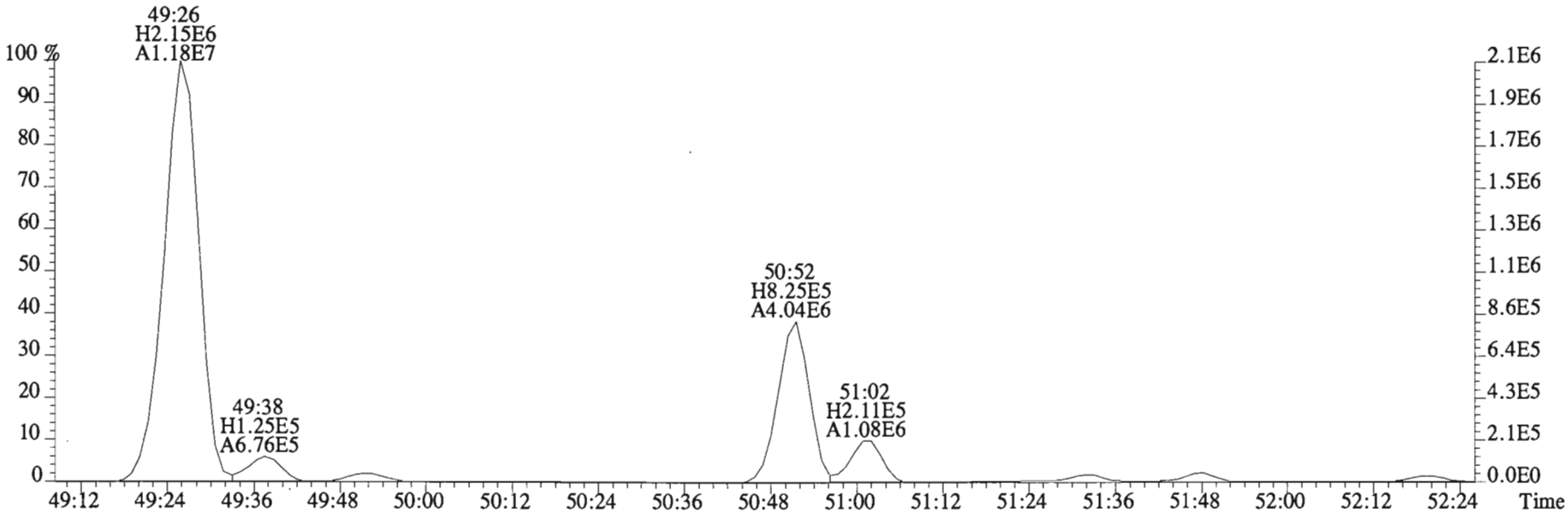
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2476.0,0.00%,F,F)



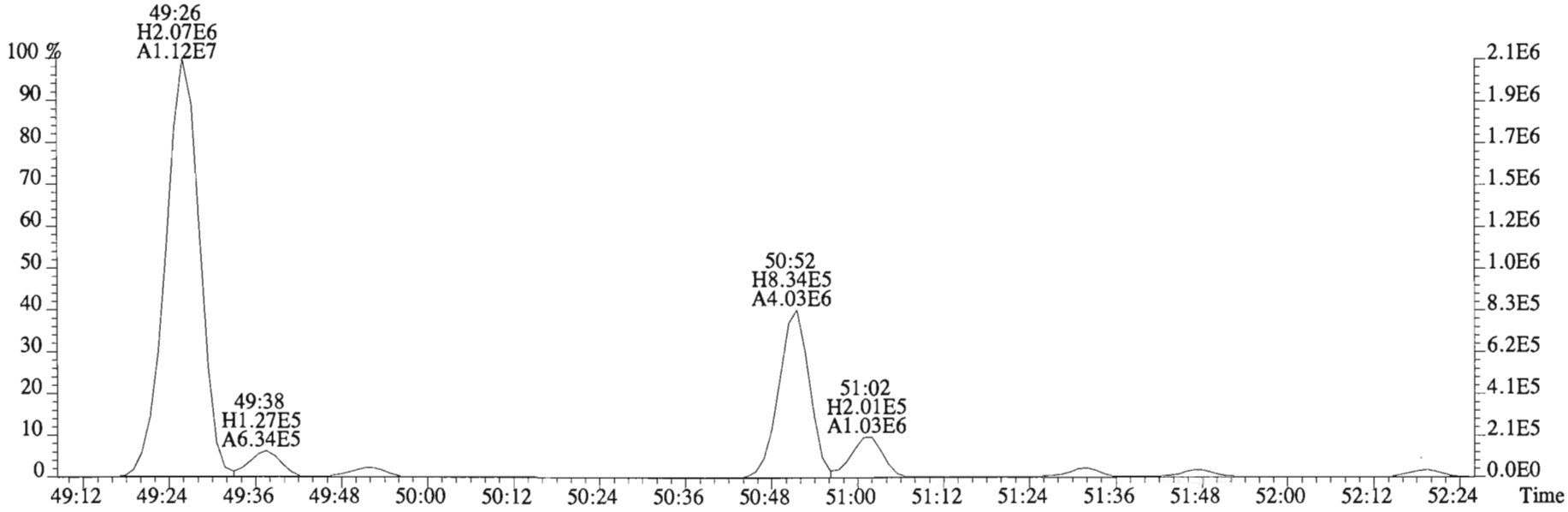
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1924.0,0.00%,F,F)

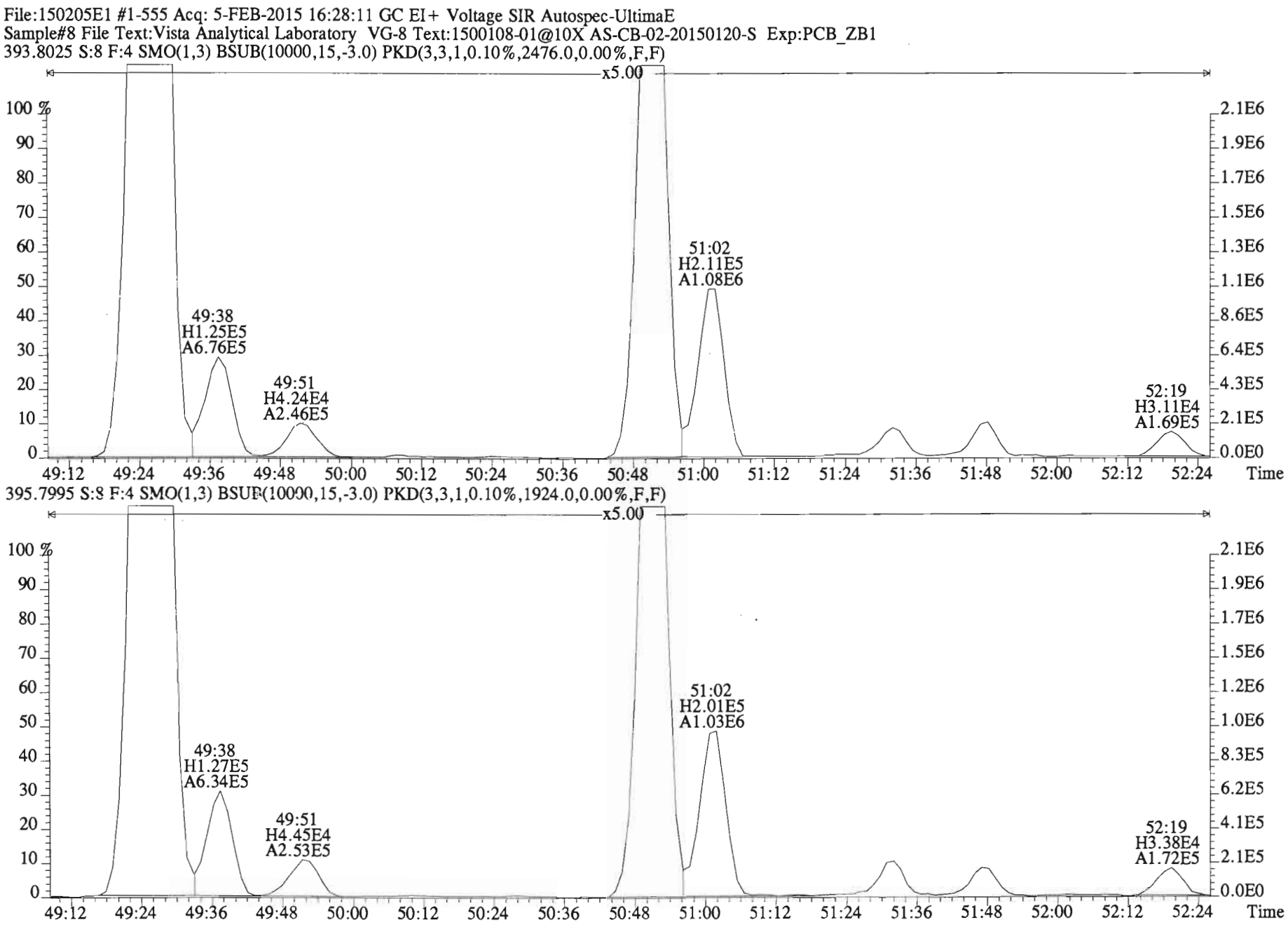


File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2476.0,0.00%,F,F)

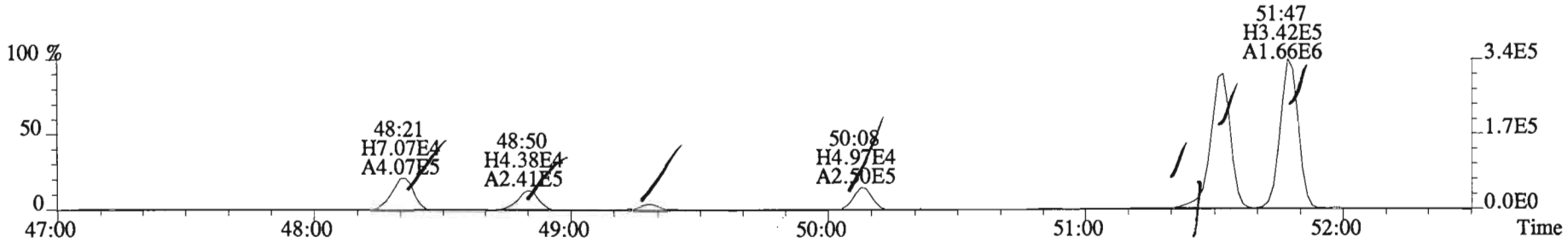


395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1924.0,0.00%,F,F)

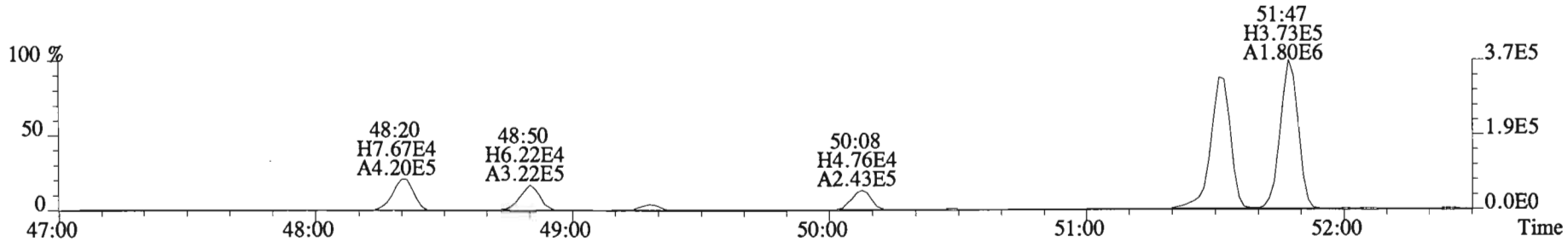



File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2476.0,0.00%,F,F)
x5.00
49:38
H1.25E5
A6.76E5
49:51
H4.24E4
A2.46E5
51:02
H2.11E5
A1.08E6
52:19
H3.11E4
A1.69E5
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1924.0,0.00%,F,F)
x5.00
49:38
H1.27E5
A6.34E5
49:51
H4.45E4
A2.53E5
51:02
H2.01E5
A1.03E6
52:19
H3.38E4
A1.72E5
Time

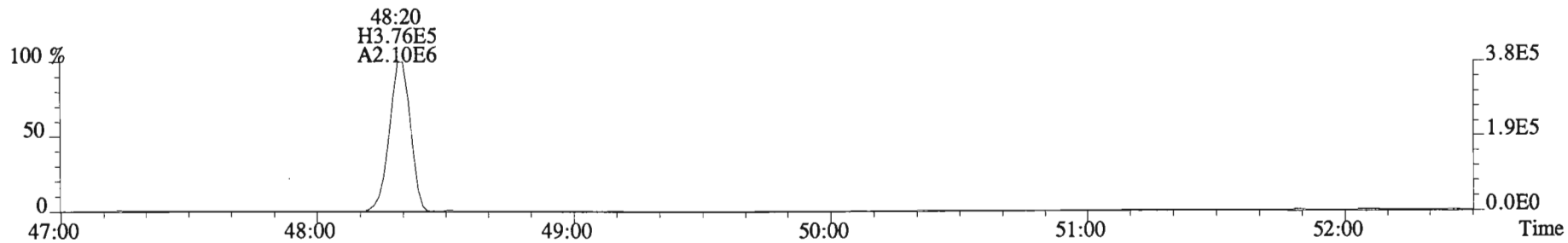
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1676.0,0.00%,F,F)



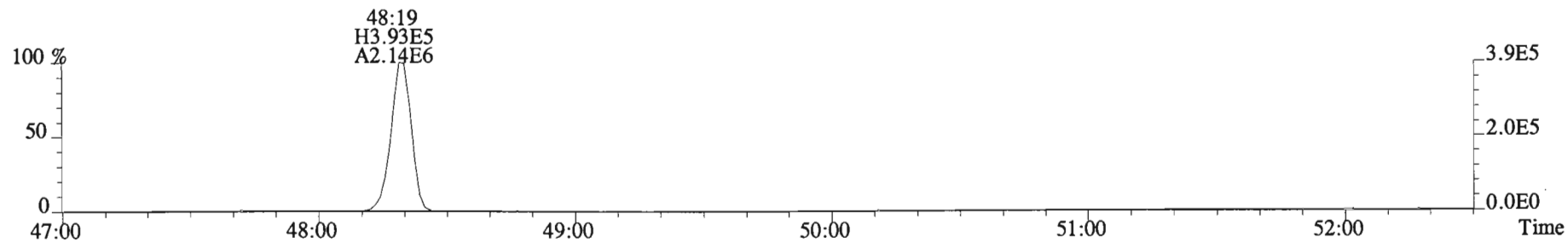
429.7606 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1780.0,0.00%,F,F)



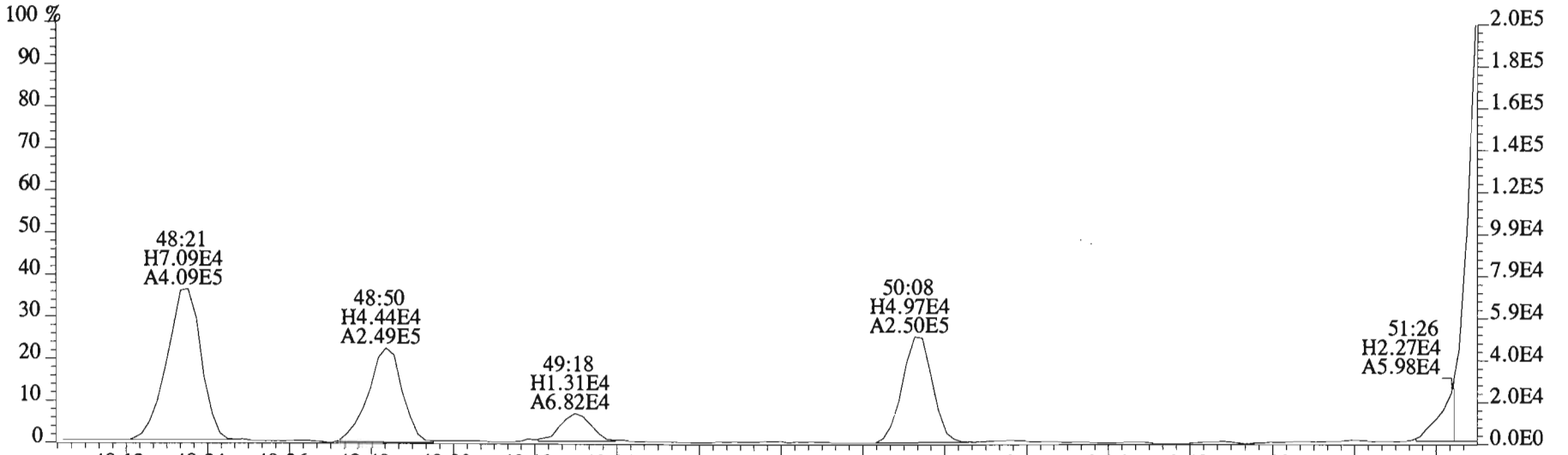
439.8038 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1756.0,0.00%,F,F)



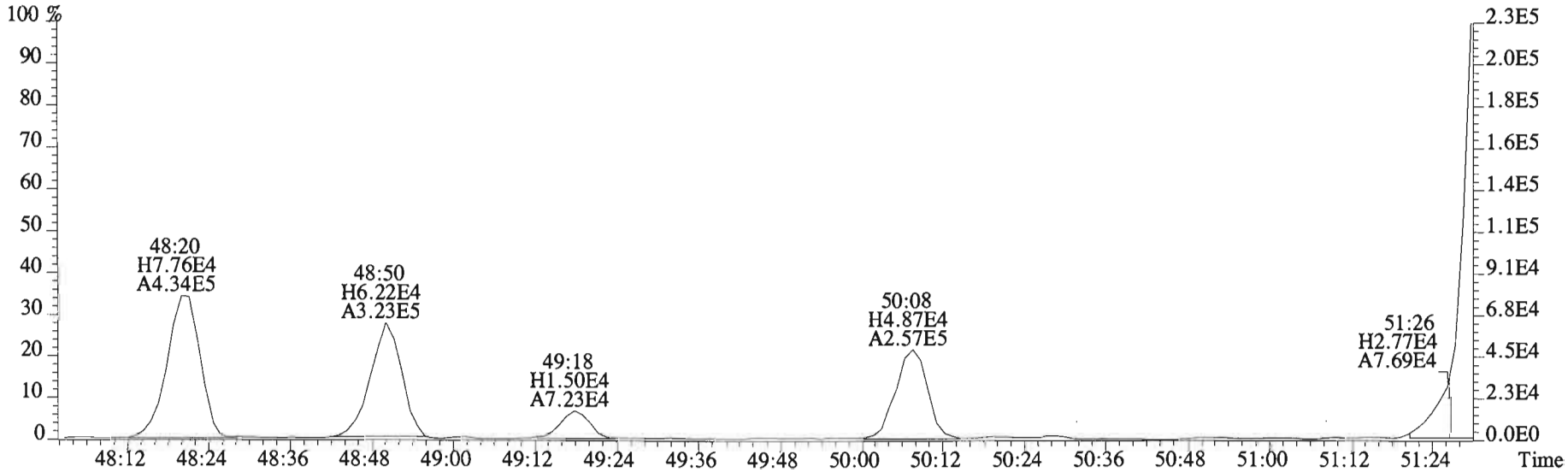
441.8008 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1804.0,0.00%,F,F)



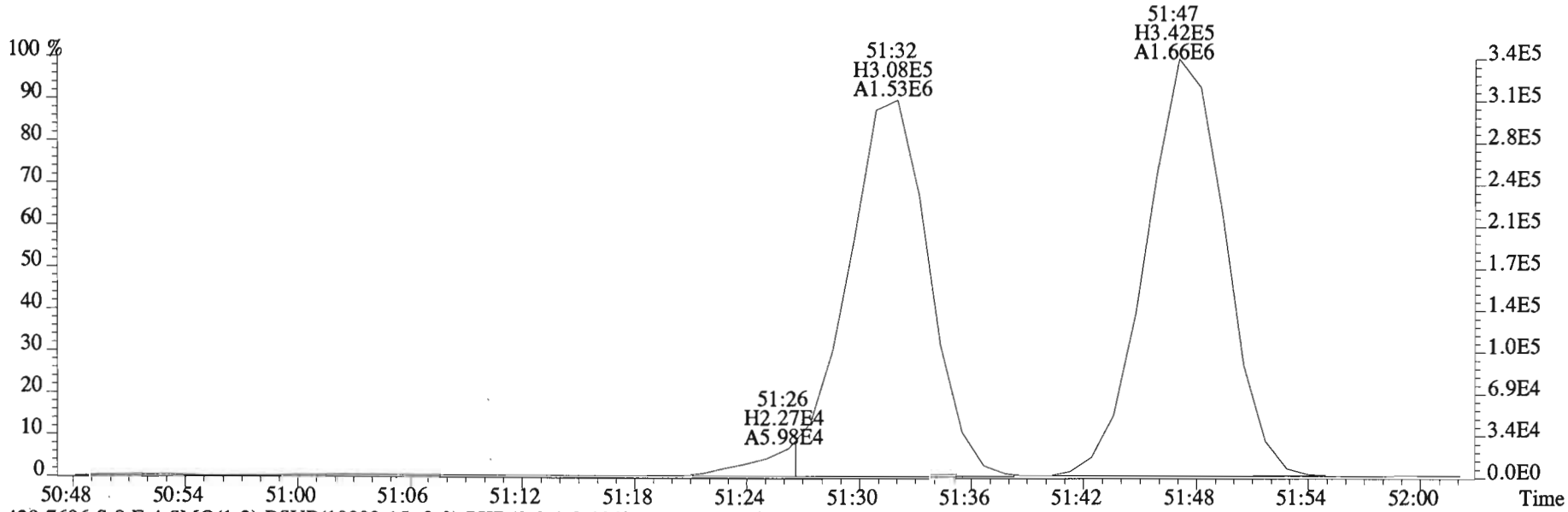
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1676.0,0.00%,F,F)



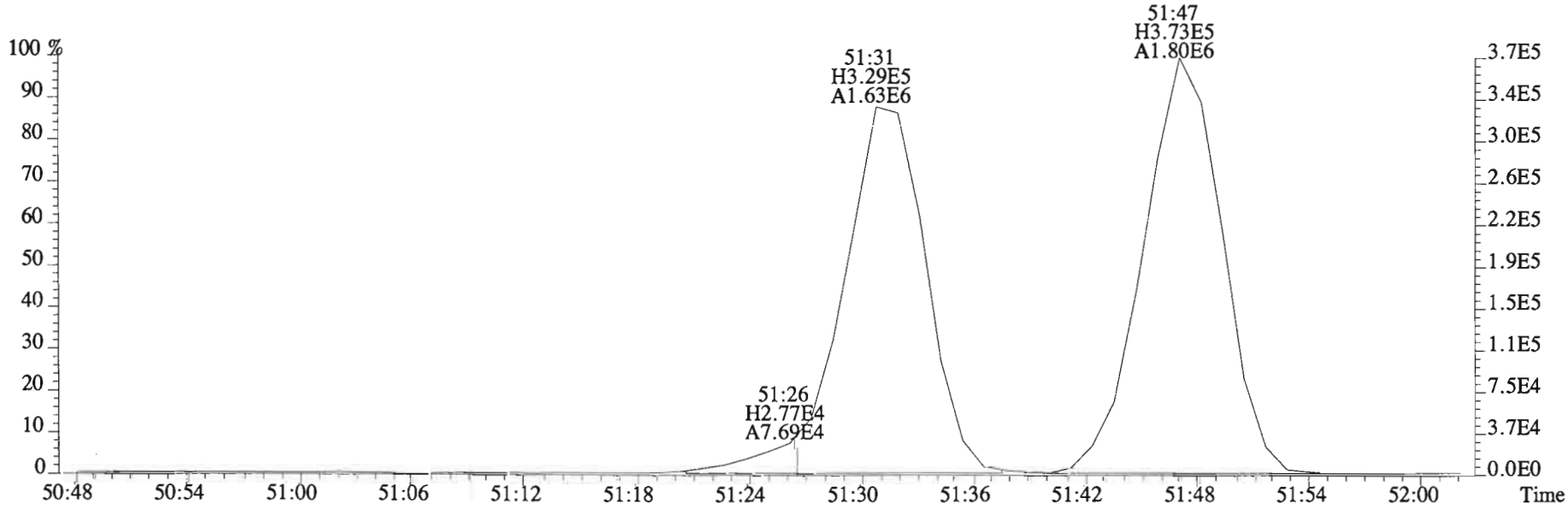
429.7606 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1780.0,0.00%,F,F)



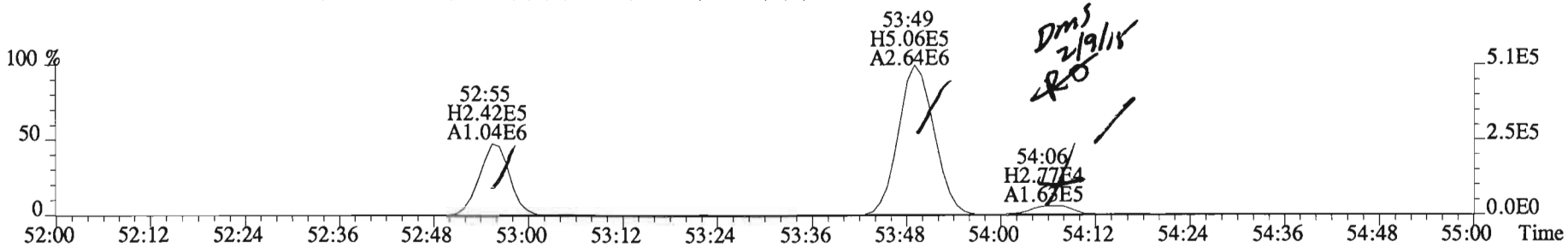
File:150205E1 #1-555 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1676.0,0.00%,F,F)



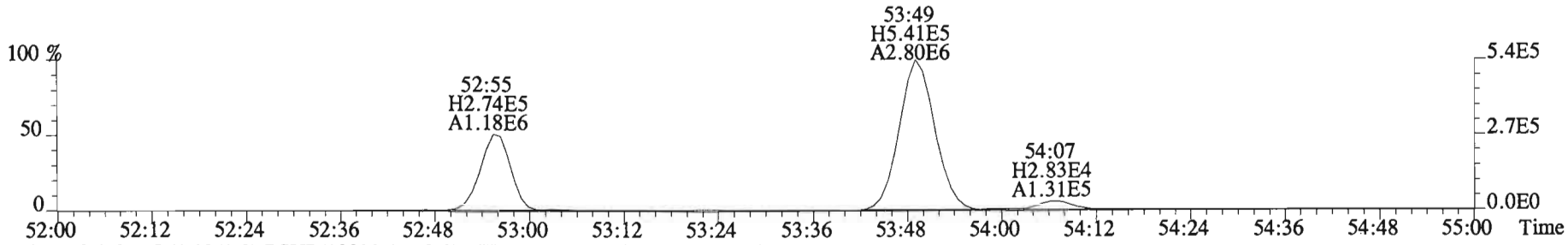
429.7606 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1780.0,0.00%,F,F)



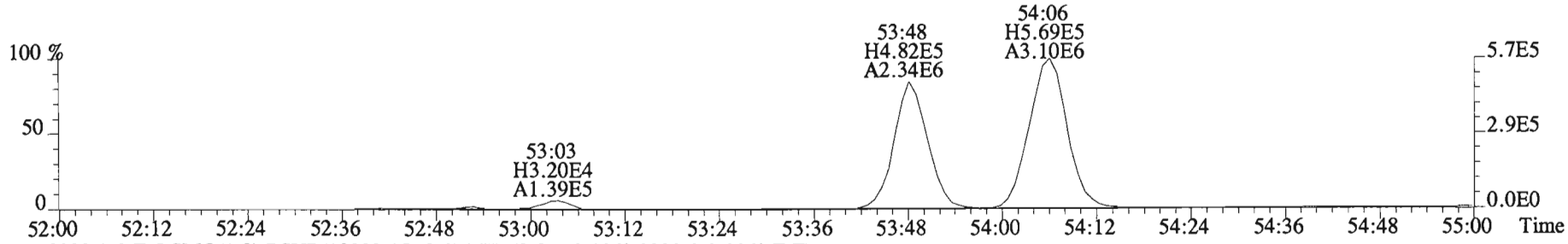
File:150205E1 #1-429 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
427.7635 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2072.0,0.00%,F,F)



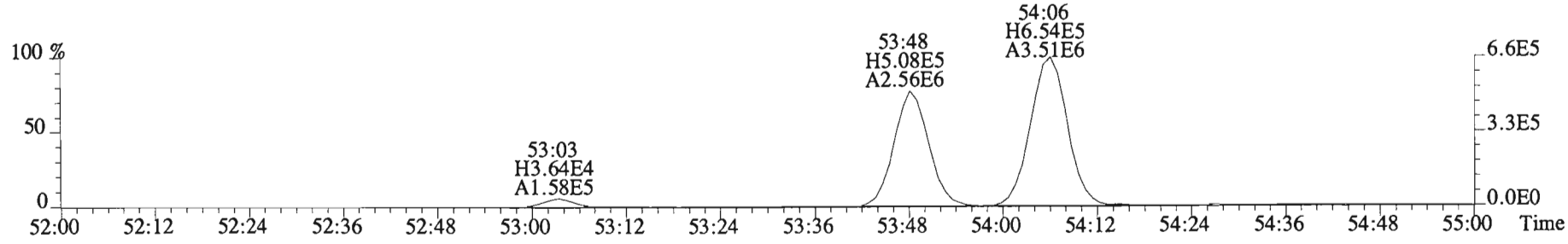
429.7606 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2368.0,0.00%,F,F)



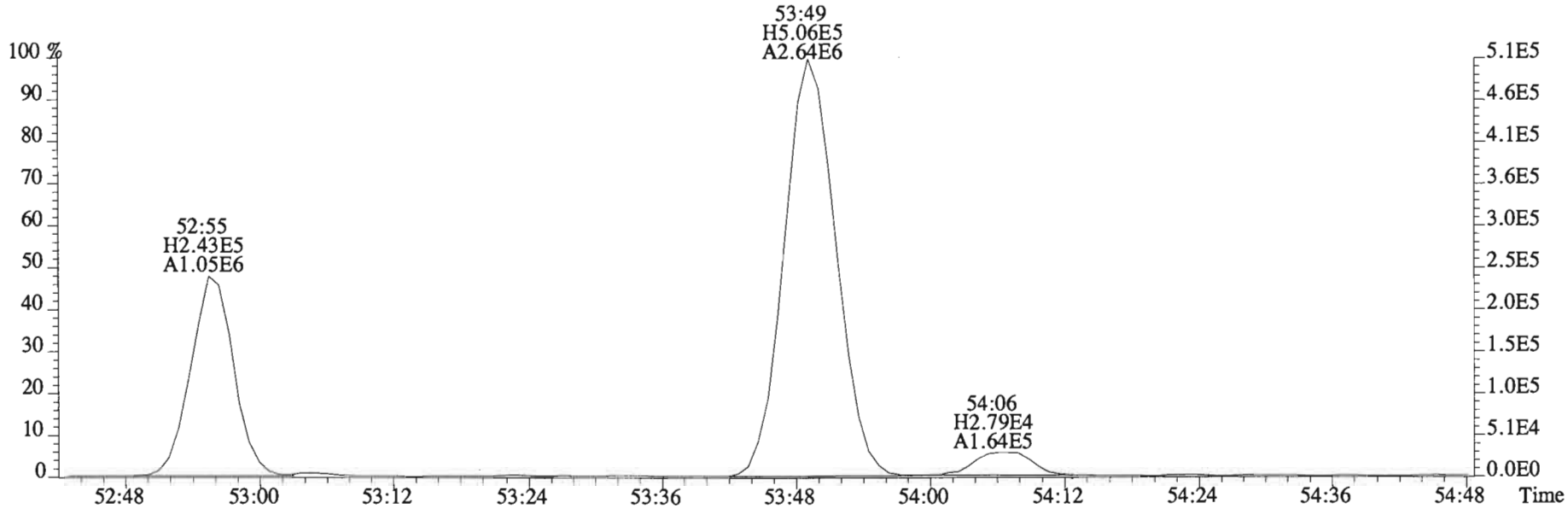
439.8038 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2544.0,0.00%,F,F)



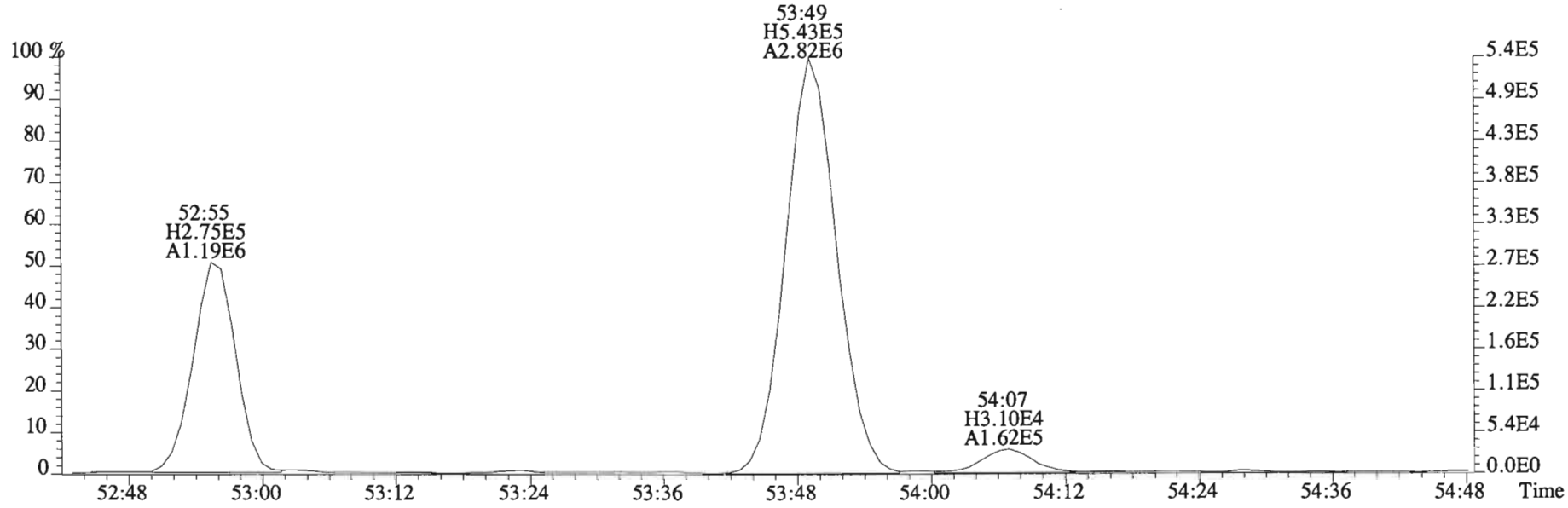
441.8008 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2880.0,0.00%,F,F)



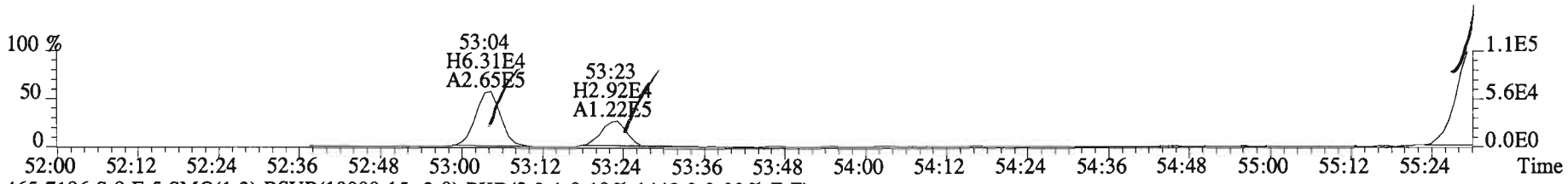
File:150205E1 #1-429 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
427.7635 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0)



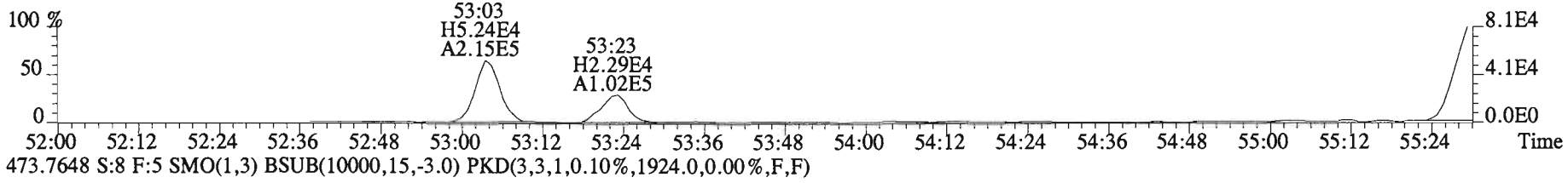
429.7606 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2368.0,0.00%,F,F)



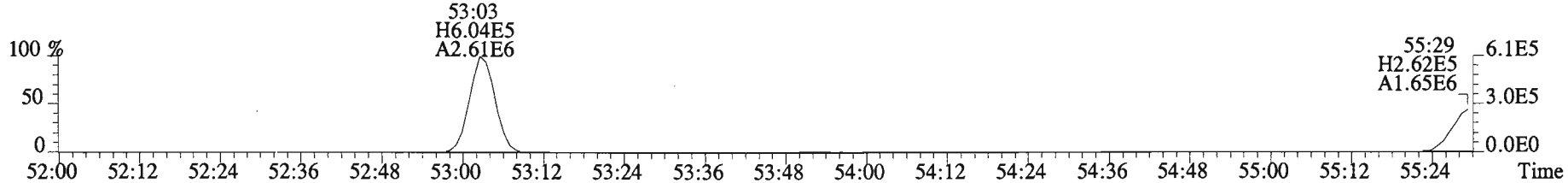
File:150205E1 #1-429 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
463.7216 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1808.0,0.00%,F,F)



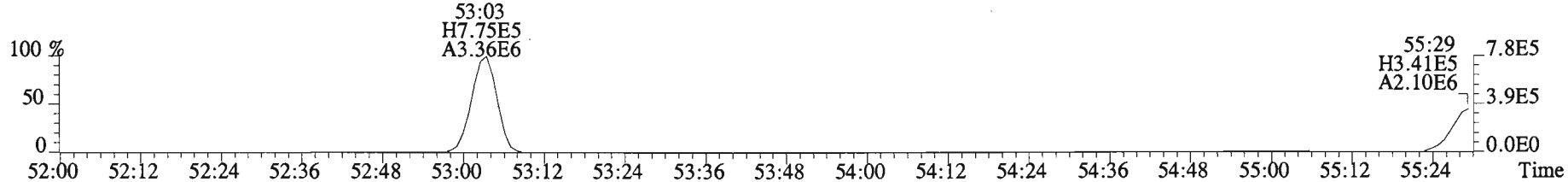
465.7186 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1448.0,0.00%,F,F)



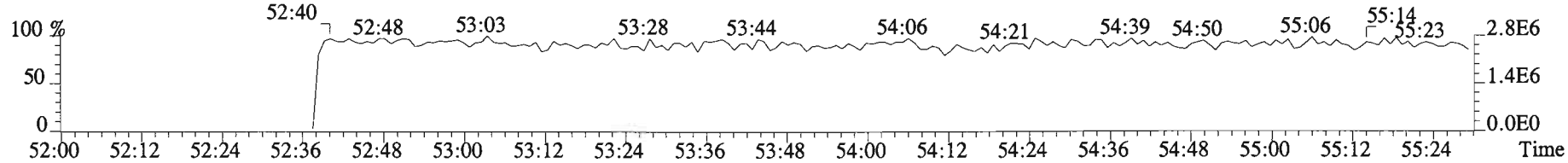
473.7648 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1924.0,0.00%,F,F)



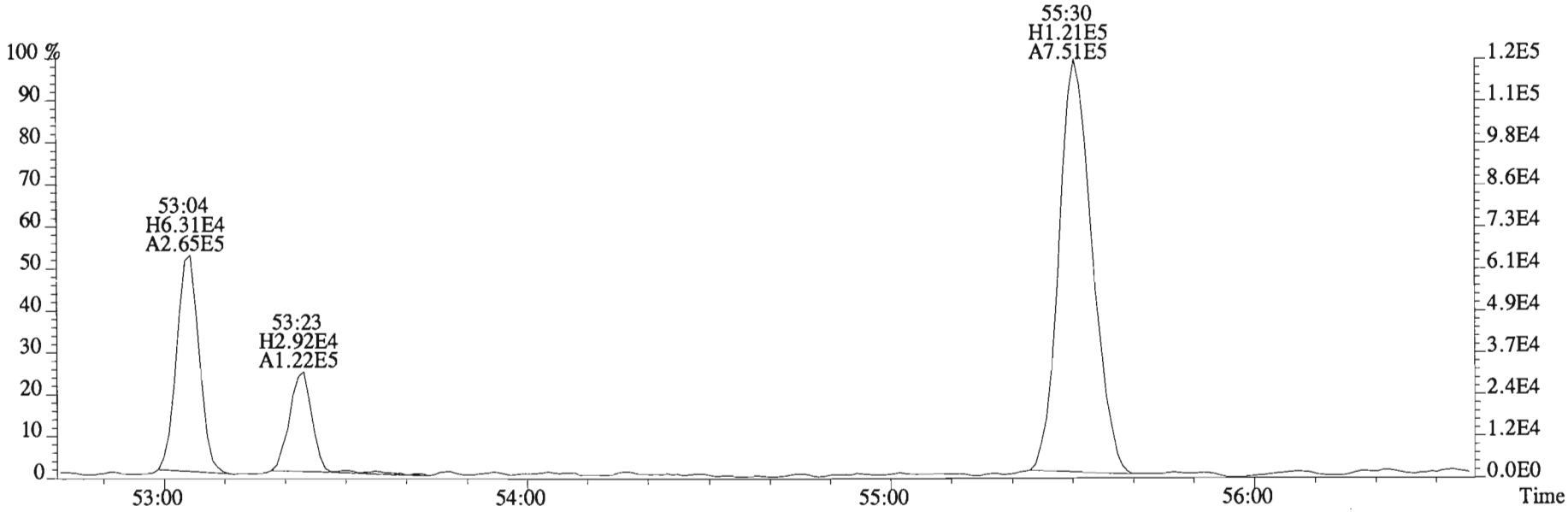
475.7619 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1620.0,0.00%,F,F)



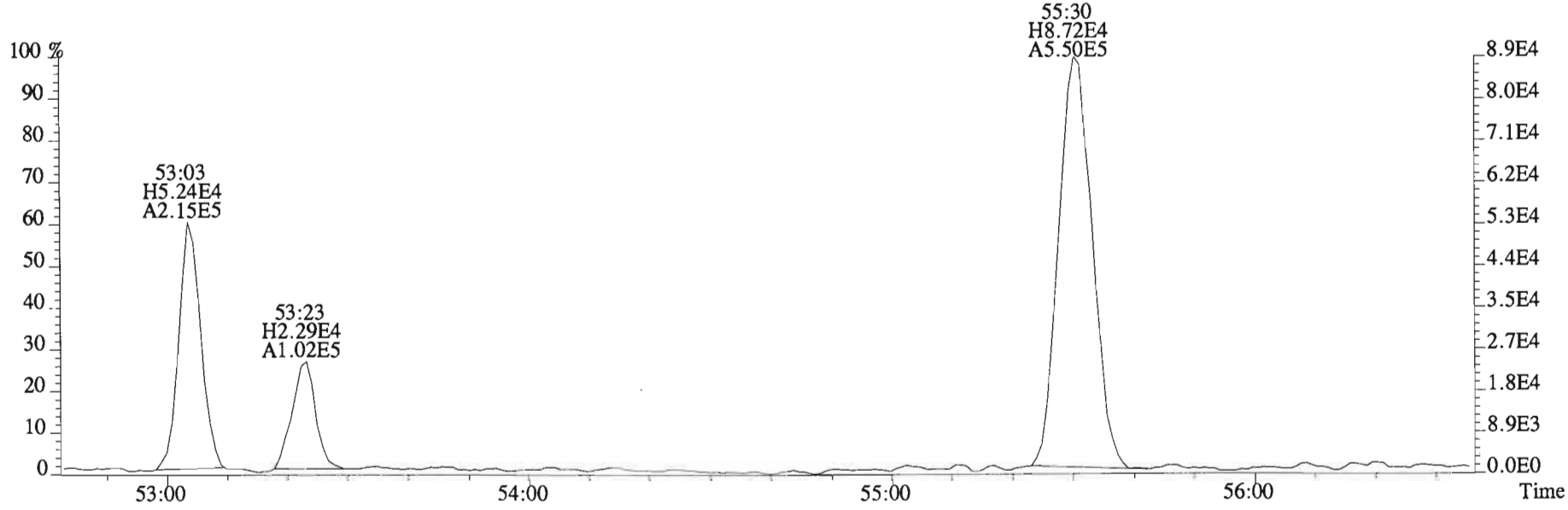
492.9697 S:8 F:5



File:150205E1 #1-429 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
463.7216 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1808.0,0.00%,F,F)

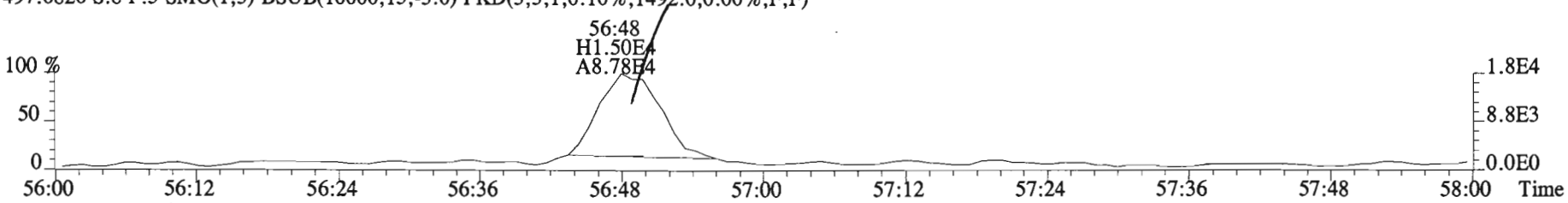


465.7186 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1448.0,0.00%,F,F)

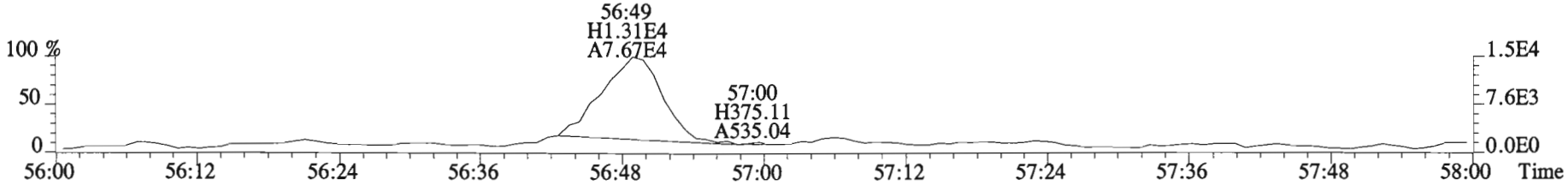


File:150205E1 #1-429 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1

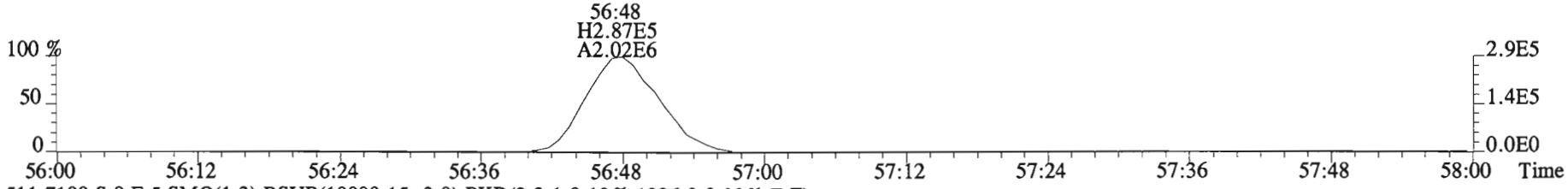
497.6826 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1492.0,0.00%,F,F)



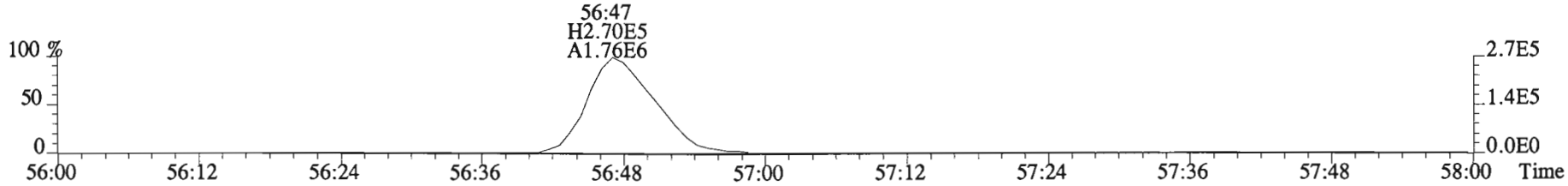
499.6797 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1484.0,0.00%,F,F)



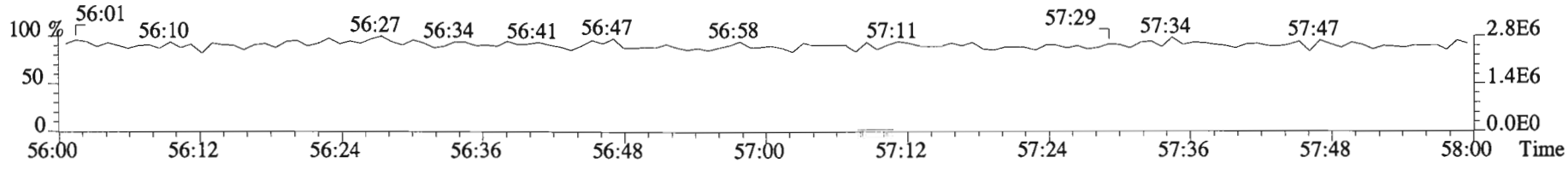
509.7229 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1544.0,0.00%,F,F)



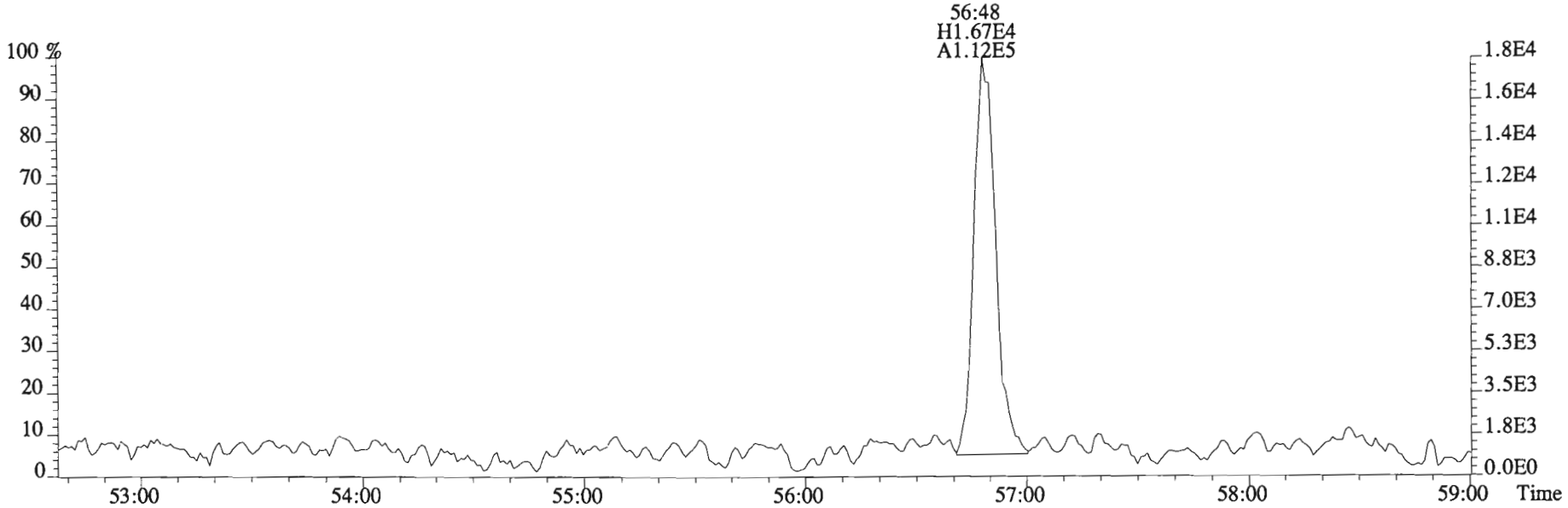
511.7199 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1336.0,0.00%,F,F)



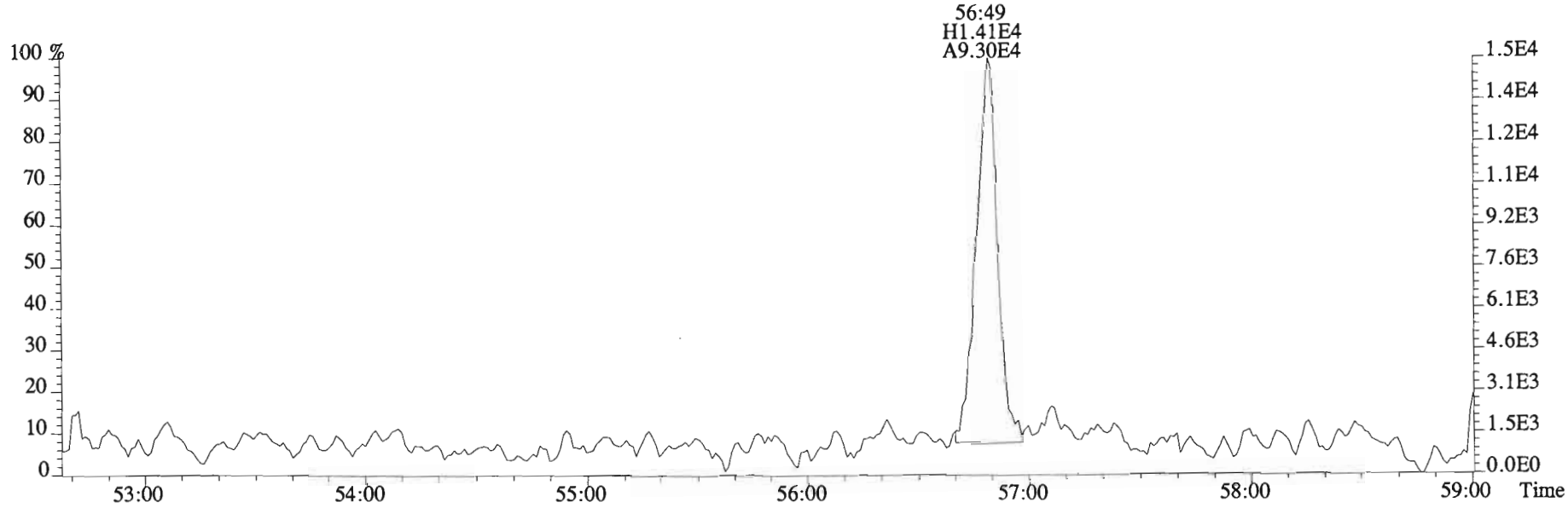
492.9697 S:8 F:5



File:150205E1 #1-429 Acq: 5-FEB-2015 16:28:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-01@10X AS-CB-02-20150120-S Exp:PCB_ZB1
497.6826 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1492.0,0.00%,F,F)



499.6797 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1484.0,0.00%,F,F)



Client ID: AS-CB-05-20150120-S Filename: 150205E1 S:9 Acq: 5-FEB-15 17:32:09 ConCal: ST150205E1-1
Lab ID: 1500108-02@10X DE1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.036 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Mono	PCB-1	2.49e+05	2.87	y 16:11	1.19	144		*	2.5	*	1.001	0.996-1.006
Mono	PCB-2	1.60e+05	3.25	y 18:33	1.18	89.2		*	2.5	*	0.988	0.984-0.994
Mono	PCB-3	2.64e+05	2.73	y 18:47	1.43	122		*	2.5	*	1.000	0.996-1.006
Di	PCB-4/10	7.90e+05	1.58	y 20:07	1.57	536		*	2.5	*	1.001	0.997-1.007
Di	PCB-7/9	4.11e+05	1.33	y 21:55	1.21	238		*	2.5	*	0.867	0.866-0.874
Di	PCB-6	1.04e+06	1.44	y 22:35	1.30	562		*	2.5	*	0.894	0.890-0.899
Di	PCB-5/8	3.19e+06	1.67	y 22:58	1.15	1950		*	2.5	*	0.909	0.907-0.917
Di	PCB-14	*	*	n NotF	1.11	*		16200	2.5	245	*	0.949-0.959
Di	PCB-11	2.49e+07	1.68	y 25:17	1.09	14800		*	2.5	*	1.000	0.995-1.005
Di	PCB-12/13	4.56e+05	1.26	n 25:39	1.19	247	R	*	2.5	*	1.015	1.011-1.021
Di	PCB-15	3.36e+06	1.74	y 26:00	1.28	1700		*	2.5	*	1.029	1.023-1.033
Tri	PCB-19	3.94e+05	1.19	y 24:16	1.04	495		*	2.5	*	1.001	0.996-1.006
Tri	PCB-30	*	*	n NotF	1.71	*		1890	2.5	31.0	*	1.032-1.042
Tri	PCB-18	3.50e+06	1.01	y 25:54	0.78	3950		*	2.5	*	0.954	0.949-0.959
Tri	PCB-17	1.36e+06	1.01	y 26:05	0.92	1300		*	2.5	*	0.960	0.956-0.966
Tri	PCB-24/27	6.16e+05	0.98	y 26:38	1.19	457		*	2.5	*	0.981	0.977-0.987
Tri	PCB-16/32	2.99e+06	0.98	y 27:09	0.94	2800		*	2.5	*	1.000	0.995-1.005
Tri	PCB-34	*	*	n NotF	1.14	*		2410	2.5	39.3	*	0.955-0.965
Tri	PCB-23	*	*	n NotF	1.28	*		2410	2.5	34.9	*	0.959-0.969
Tri	PCB-29	*	*	n NotF	1.08	*		2410	2.5	41.3	*	0.967-0.977
Tri	PCB-26	2.56e+06	1.02	y 28:30	1.21	1520		*	2.5	*	0.979	0.974-0.984
Tri	PCB-25	1.35e+06	1.02	y 28:40	1.26	763		*	2.5	*	0.984	0.979-0.989
Tri	PCB-31	7.94e+06	1.04	y 29:02	1.28	4410		*	2.5	*	0.997	0.992-1.002
Tri	PCB-28	9.49e+06	1.05	y 29:08	1.71	3960		*	2.5	*	1.000	0.995-1.005
Tri	PCB-20/21/33	5.11e+06	1.00	y 29:46	1.08	3370		*	2.5	*	1.022	1.017-1.027
Tri	PCB-22	3.61e+06	1.06	y 30:11	1.21	2140		*	2.5	*	1.036	1.032-1.042
Tri	PCB-36	*	*	n NotF	1.14	*		2410	2.5	42.2	*	0.928-0.938
Tri	PCB-39	*	*	n NotF	1.12	*		2410	2.5	43.2	*	0.943-0.953
Tri	PCB-38	*	*	n NotF	1.20	*		2410	2.5	40.2	*	0.966-0.976
Tri	PCB-35	5.80e+05	1.08	y 32:38	1.23	352		*	2.5	*	0.986	0.982-0.992
Tri	PCB-37	4.58e+06	1.06	y 33:06	1.23	2780		*	2.5	*	1.000	0.995-1.005
Tetra	PCB-54	*	*	n NotF	1.10	*		2510	2.5	48.1	*	0.996-1.006
Tetra	PCB-50	*	*	n NotF	0.88	*		2510	2.5	60.2	*	1.037-1.047
Tetra	PCB-53	1.09e+06	0.78	y 29:50	1.06	1220		*	2.5	*	0.946	0.942-0.952
Tetra	PCB-51	3.51e+05	0.69	y 30:10	0.99	422		*	2.5	*	0.956	0.952-0.962
Tetra	PCB-45	7.44e+05	0.67	y 30:36	0.86	1030		*	2.5	*	0.970	0.966-0.976
Tetra	PCB-46	3.65e+05	0.76	y 31:05	0.85	513		*	2.5	*	0.985	0.981-0.991

Integrations by:

Analyst: DMS

Date: 2/10/15

Reviewed by: [signature] Date: 2/10/15

Client ID: AS-CB-05-20150120-S Filename: 150205E1 S:9 Acq: 5-FEB-15 17:32:09 ConCal: ST150205E1-1
Lab ID: 1500108-02@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.036 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	1.08e+07	0.77	y 31:33	1.28	10000		*	2.5	*	1.000	0.996	1.006
Tetra	PCB-73	*	*	n NotFnd	1.35	*		2510	2.5	58.9	*	1.000	1.010
Tetra	PCB-43/49	5.17e+06	0.76	y 31:52	0.99	6180		*	2.5	*	1.010	1.005	1.015
Tetra	PCB-47	1.96e+06	0.74	y 32:05	1.06	2030		*	2.5	*	1.001	0.996	1.006
Tetra	PCB-48/75	9.56e+05	0.80	y 32:13	1.23	853		*	2.5	*	1.005	0.999	1.009
Tetra	PCB-65	*	*	n NotFnd	1.22	*		2510	2.5	63.4	*	1.008	1.018
Tetra	PCB-62	*	*	n NotFnd	1.22	*		2510	2.5	63.6	*	1.011	1.021
Tetra	PCB-44	5.50e+06	0.75	y 32:55	0.86	7000		*	2.5	*	1.027	1.021	1.031
Tetra	PCB-42/59	2.18e+06	0.76	y 33:09	1.14	2100		*	2.5	*	1.034	1.028	1.038
Tetra	PCB-41/64/71/72	6.63e+06	0.77	y 33:41	1.21	6010		*	2.5	*	1.051	1.046	1.056
Tetra	PCB-68	9.77e+04	0.73	y 33:56	1.35	79.4		*	2.5	*	1.058	1.054	1.064
Tetra	PCB-40	8.06e+05	0.84	y 34:09	0.70	1260		*	2.5	*	1.065	1.061	1.071
Tetra	PCB-57	9.95e+04	0.71	y 34:30	0.98	90.0		*	2.5	*	0.970	0.965	0.975
Tetra	PCB-67	2.72e+05	0.77	y 34:49	1.11	218		*	2.5	*	0.979	0.974	0.984
Tetra	PCB-58	*	*	n NotFnd	0.93	*		2510	2.5	56.1	*	0.977	0.987
Tetra	PCB-63	3.04e+05	0.67	y 35:04	0.95	283		*	2.5	*	0.986	0.982	0.992
Tetra	PCB-74	3.65e+06	0.77	y 35:21	1.24	2600		*	2.5	*	0.994	0.990	1.000
Tetra	PCB-61/70	1.01e+07	0.74	y 35:35	0.95	9390		*	2.5	*	1.001	0.995	1.005
Tetra	PCB-76/66	6.84e+06	0.76	y 35:48	1.04	5800		*	2.5	*	1.007	1.001	1.011
Tetra	PCB-80	*	*	n NotFnd	1.19	*		2510	2.5	45.0	*	0.996	1.006
Tetra	PCB-55	2.47e+05	0.85	y 36:18	1.04	207		*	2.5	*	1.009	1.005	1.015
Tetra	PCB-56/60	4.73e+06	0.77	y 36:49	1.01	4070		*	2.5	*	1.023	1.019	1.029
Tetra	PCB-79	2.58e+05	0.85	y 37:54	1.08	208		*	2.5	*	1.053	1.048	1.058
Tetra	PCB-78	*	*	n NotFnd	1.27	*		2510	2.5	47.9	*	0.982	0.992
Tetra	PCB-81	1.25e+05	0.73	y 39:05	1.33	91.3		*	2.5	*	0.999	0.995	1.005
Tetra	PCB-77	1.32e+06	0.85	y 39:43	1.10	1160		*	2.5	*	1.001	0.995	1.005
Penta	PCB-104	*	*	n NotFnd	1.18	*		2460	2.5	146	*	0.996	1.006
Penta	PCB-96	*	*	n NotFnd	1.14	*		2460	2.5	152	*	1.034	1.044
Penta	PCB-103	*	*	n NotFnd	0.96	*		2460	2.5	181	*	1.050	1.060
Penta	PCB-100	*	*	n NotFnd	0.94	*		2460	2.5	185	*	1.061	1.071
Penta	PCB-94	*	*	n NotFnd	1.06	*		2460	2.5	166	*	0.980	0.990
Penta	PCB-95/98/102	8.79e+06	1.60	y 35:52	1.22	14900		*	2.5	*	1.000	0.995	1.005
Penta	PCB-93	*	*	n NotFnd	0.84	*		2460	2.5	208	*	0.997	1.007
Penta	PCB-88/91	1.34e+06	1.71	y 36:16	1.12	2500		*	2.5	*	1.012	1.005	1.015
Penta	PCB-121	*	*	n NotFnd	1.62	*		2460	2.5	108	*	1.009	1.019
Penta	PCB-84/92	4.30e+06	1.67	y 37:11	1.05	7870		*	2.5	*	0.991	0.985	0.995
Penta	PCB-89	7.80e+04	1.70	y 37:21	1.13	132		*	*	*	0.995	0.991	1.001

Analyst: DMS

Date: 2/10/15

Client ID: AS-CB-05-20150120-S Filename: 150205E1 S:9 Acq: 5-FEB-15 17:32:09 ConCal: ST150205E1-1
Lab ID: 1500108-02@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.036 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	1.17e+07	1.63	y 37:33	1.10	20400		*	2.5	*	1.000	0.995	1.005
Penta	PCB-113	8.74e+04	1.38	y 37:46	1.41	119		*	2.5	*	1.006	1.002	1.012
Penta	PCB-99	4.05e+06	1.58	y 37:54	1.34	5810		*	2.5	*	1.010	1.004	1.014
Penta	PCB-119	3.05e+05	1.56	y 38:21	1.53	428		*	2.5	*	0.987	0.982	0.992
Penta	PCB-108/112	5.19e+05	1.76	y 38:31	1.28	870		*	2.5	*	0.991	0.986	0.996
Penta	PCB-83	*	*	n NotF┐	1.52	*		1610	2.5	83.7	*	0.990	1.000
Penta	PCB-97	2.94e+06	1.59	y 38:52	1.18	5340		*	2.5	*	1.000	0.995	1.005
Penta	PCB-86	*	*	n NotF┐	0.84	*		1610	2.5	151	*	0.999	1.009
Penta	PCB-87/117/125	4.50e+06	1.59	y 39:09	1.55	6240		*	2.5	*	1.008	1.002	1.012
Penta	PCB-111/115	2.46e+05	1.47	y 39:18	1.63	323		*	2.5	*	1.012	1.006	1.016
Penta	PCB-85/116	1.45e+06	1.46	y 39:25	1.30	2380		*	2.5	*	1.015	1.010	1.020
Penta	PCB-120	*	*	n NotF┐	1.68	*		1610	2.5	75.9	*	1.016	1.026
Penta	PCB-110	1.56e+07	1.56	y 39:49	1.56	21500		*	2.5	*	1.025	1.020	1.030
Penta	PCB-82	8.82e+05	1.76	y 40:26	0.76	2050		*	2.5	*	0.976	0.971	0.981
Penta	PCB-124	6.74e+05	1.78	y 41:07	1.47	810		*	2.5	*	0.993	0.988	0.998
Penta	PCB-107/109	8.56e+05	1.75	y 41:17	1.32	1140		*	2.5	*	0.997	0.991	1.001
Penta	PCB-123	1.37e+05	1.58	y 41:26	1.17	207		*	2.5	*	1.000	0.996	1.006
Penta	PCB-106/118	1.13e+07	1.60	y 41:38	1.17	16300		*	2.5	*	1.001	0.996	1.006
Penta	PCB-114	4.20e+05	1.67	y 42:17	1.30	374		*	2.5	*	1.000	0.995	1.005
Penta	PCB-122	1.90e+05	1.66	y 42:26	1.12	196		*	2.5	*	1.004	0.999	1.009
Penta	PCB-105	7.11e+06	1.58	y 43:10	1.30	6590		*	2.5	*	1.001	0.995	1.005
Penta	PCB-127	*	*	n NotF┐	1.33	*		1560	2.5	51.4	*	0.996	1.006
Penta	PCB-126	2.32e+05	1.56	y 45:24	1.18	253		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-155	*	*	n NotF┐	1.11	*		1080	2.5	70.2	*	0.966	1.006
Hexa	PCB-150	*	*	n NotF┐	1.00	*		1080	2.5	78.1	*	1.030	1.040
Hexa	PCB-152	*	*	n NotF┐	1.12	*		1080	2.5	69.9	*	1.043	1.053
Hexa	PCB-145	*	*	n NotF┐	1.20	*		1080	2.5	64.9	*	1.055	1.065
Hexa	PCB-136	1.82e+06	1.28	y 39:36	1.18	3450		*	2.5	*	1.068	1.064	1.074
Hexa	PCB-148	*	*	n NotF┐	0.74	*		1080	2.5	105	*	1.066	1.076
Hexa	PCB-154	1.34e+05	1.32	y 40:12	0.86	350		*	2.5	*	1.084	1.080	1.090
Hexa	PCB-151	2.38e+06	1.29	y 40:51	0.75	7130		*	2.5	*	1.102	1.097	1.107
Hexa	PCB-135	1.36e+06	1.29	y 41:05	0.79	3840		*	2.5	*	1.108	1.103	1.113
Hexa	PCB-144	4.33e+05	1.38	y 41:11	0.76	1270		*	2.5	*	1.111	1.105	1.117
Hexa	PCB-147	1.39e+05	1.07	y 41:18	0.82	379		*	2.5	*	1.114	1.109	1.121
Hexa	PCB-139/149	8.52e+06	1.30	y 41:34	0.76	25000		*	2.5	*	1.121	1.116	1.128
Hexa	PCB-140	4.73e+04	1.51	n 41:47	0.72	146	R	*	2.5	*	1.127	1.121	1.133
Hexa	PCB-134/143	9.89e+05	1.08	y 42:13	0.92	1550		*	2.5	*	0.975	0.970	0.980

Analyst: DMS

Date: 2/10/15

Client ID: AS-CB-05-20150120-S Filename: 150205E1 S:9 Acq: 5-FEB-15 17:32:09 ConCal: ST150205E1-1

Lab ID: 1500108-02@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.036 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	5.66e+05	1.05	y	42:30	0.82	992		*	2.5	*	0.982	0.977	0.987
Hexa	PCB-131	*	*	n	NotFnd	0.91	*		3240	2.5	163	*	0.981	0.991
Hexa	PCB-146/165	3.42e+06	1.31	y	42:55	1.25	3940		*	2.5	*	0.991	0.986	0.996
Hexa	PCB-132/161	6.55e+06	1.24	y	43:10	1.10	8500		*	2.5	*	0.997	0.992	1.002
Hexa	PCB-153	2.26e+07	1.25	y	43:19	1.25	26000		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-168	*	*	n	NotFnd	1.45	*		3240	2.5	102	*	1.001	1.011
Hexa	PCB-141	4.58e+06	1.20	y	44:03	1.09	6460		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-137	7.81e+05	1.22	y	44:26	1.06	1130		*	2.5	*	1.009	1.004	1.014
Hexa	PCB-130	1.12e+06	1.26	y	44:32	0.96	1770		*	2.5	*	1.011	1.006	1.016
Hexa	PCB-138/163/164	2.40e+07	1.24	y	44:55	1.29	29000		*	2.5	*	1.001	0.996	1.006
Hexa	PCB-158/160	2.65e+06	1.26	y	45:08	1.34	3080		*	2.5	*	1.006	1.001	1.011
Hexa	PCB-129	8.07e+05	1.18	y	45:24	0.85	1480		*	2.5	*	1.012	1.007	1.017
Hexa	PCB-166	7.53e+04	1.10	y	45:53	1.19	87.1		*	2.5	*	0.993	0.988	0.998
Hexa	PCB-159	*	*	n	NotFnd	1.11	*		3240	2.5	136	*	0.996	1.006
Hexa	PCB-128/162	3.18e+06	1.19	y	46:27	1.05	4170		*	2.5	*	1.006	1.002	1.012
Hexa	PCB-167	9.64e+05	1.27	y	46:53	1.20	1050		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-156	2.22e+06	1.20	y	48:12	1.14	2790		*	2.5	*	1.001	0.996	1.006
Hexa	PCB-157	5.22e+05	1.31	y	48:27	1.16	585		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-169	*	*	n	NotFnd	1.12	*		3240	2.5	129	*	0.995	1.005
Hepta	PCB-188	*	*	n	NotFnd	1.58	*		2070	2.5	54.7	*	0.996	1.006
Hepta	PCB-184	*	*	n	NotFnd	1.63	*		2070	2.5	53.0	*	1.006	1.016
Hepta	PCB-179	2.97e+06	1.07	y	44:10	1.30	4540		*	2.5	*	1.029	1.024	1.034
Hepta	PCB-176	8.40e+05	1.14	y	44:38	1.48	1140		*	2.5	*	1.040	1.035	1.045
Hepta	PCB-186	*	*	n	NotFnd	1.45	*		2070	2.5	59.5	*	1.050	1.060
Hepta	PCB-178	1.04e+06	1.13	y	45:45	1.03	2020		*	2.5	*	1.066	1.061	1.071
Hepta	PCB-175	1.82e+05	1.13	y	46:04	1.01	359		*	2.5	*	1.073	1.069	1.079
Hepta	PCB-182/187	6.57e+06	1.07	y	46:15	1.25	10500		*	2.5	*	1.078	1.073	1.083
Hepta	PCB-183	2.90e+06	1.06	y	46:36	1.21	4800		*	2.5	*	1.086	1.081	1.091
Hepta	PCB-185	5.52e+05	1.05	y	47:15	1.80	921		*	2.5	*	0.956	0.951	0.961
Hepta	PCB-174	5.16e+06	1.08	y	47:37	1.38	11300		*	2.5	*	0.963	0.958	0.968
Hepta	PCB-181	*	*	n	NotFnd	1.38	*		2070	2.5	90.6	*	0.960	0.970
Hepta	PCB-177	2.73e+06	1.08	y	47:53	1.26	6540		*	2.5	*	0.968	0.963	0.973
Hepta	PCB-171	1.24e+06	1.02	y	48:10	1.58	2350		*	2.5	*	0.974	0.970	0.980
Hepta	PCB-173	8.88e+04	1.13	y	48:36	1.11	241		*	2.5	*	0.983	0.978	0.988
Hepta	PCB-172	8.06e+05	1.19	y	49:05	1.63	1480		*	2.5	*	0.993	0.987	0.997
Hepta	PCB-192	*	*	n	NotFnd	1.74	*		2070	2.5	71.8	*	0.991	1.001
Hepta	PCB-180	1.11e+07	1.09	y	49:28	1.34	24800		*	2.5	*	1.000	0.995	1.005

Analyst: DMS

Date: 2/10/15

Client ID: AS-CB-05-20150120-S Filename: 150205E1 S:9 Acq: 5-FEB-15 17:32:09 ConCal: ST150205E1-1
Lab ID: 1500108-02@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.036 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	5.91e+05	1.04	y	49:39	1.72	1040		*	2.5	*	1.004	0.999	1.009
Hepta	PCB-191	2.16e+05	1.18	y	49:53	1.69	384		*	2.5	*	1.009	1.004	1.014
Hepta	PCB-170	3.90e+06	1.02	y	50:53	1.60	9010		*	2.5	*	1.000	0.995	1.005
Hepta	PCB-190	1.00e+06	1.04	y	51:04	2.21	1670		*	2.5	*	1.004	0.998	1.008
Hepta	PCB-189	1.52e+05	0.96	y	52:21	1.55	356		*	2.5	*	1.000	0.995	1.005
Octa	PCB-202	4.96e+05	1.02	y	48:23	1.08	1220		*	2.5	*	1.000	0.995	1.005
Octa	PCB-201	2.86e+05	0.98	y	48:52	1.15	661		*	2.5	*	1.010	1.005	1.015
Octa	PCB-204	*	*	n	NotF┐	1.14	*		1390	2.5	88.9	*	1.008	1.018
Octa	PCB-197	8.94e+04	0.81	y	49:21	1.07	221		*	2.5	*	1.020	1.015	1.025
Octa	PCB-200	2.73e+05	0.97	y	50:09	1.06	682		*	2.5	*	1.037	1.032	1.044
Octa	PCB-198	1.08e+05	1.00	y	51:28	0.76	379		*	2.5	*	1.064	1.059	1.069
Octa	PCB-199	1.51e+06	0.90	y	51:34	0.80	5030		*	2.5	*	1.066	1.061	1.071
Octa	PCB-196/203	1.82e+06	0.87	y	51:49	0.80	6030		*	2.5	*	1.071	1.066	1.076
Octa	PCB-195	1.05e+06	0.89	y	52:58	1.23	2000		*	2.5	*	0.984	0.979	0.989
Octa	PCB-194	2.65e+06	0.88	y	53:52	1.21	5100		*	2.5	*	1.000	0.995	1.005
Octa	PCB-205	1.35e+05	0.97	y	54:10	1.54	204		*	2.5	*	1.006	1.001	1.011
Nona	PCB-208	3.63e+05	1.38	y	53:06	0.93	780		*	2.5	*	1.000	0.995	1.005
Nona	PCB-207	1.45e+05	1.27	y	53:25	1.08	268		*	2.5	*	1.006	1.001	1.011
Nona	PCB-206	8.65e+05	1.39	y	55:35	1.02	2680		*	2.5	*	1.000	0.995	1.005
Deca	PCB-209	2.10e+05	1.08	y	56:54	1.17	606		*	2.5	*	1.000	0.995	1.005

Analyst: DMS

Date: 2/10/15

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	6.73e+05	2.87	y	16:11	1.27	355.684	
Total Di-PCB	3.37e+07	1.58	y	20:07	1.21	19807.0	
Total Tri-PCB	8.87e+06	1.19	y	24:16	1.10	9011.60	
Total Tri-PCB	3.52e+07	1.02	y	28:30	1.21	19291.5	Sum:28303.1
Total Tetra-PCB	6.46e+07	0.78	y	29:50	1.09	62825.5	
Total Penta-PCB	6.98e+07	1.50	y	33:59	1.18	109532	
Total Penta-PCB	7.95e+06	1.67	y	42:17	1.25	7409.40	Sum:116941
Total Hexa-PCB	1.48e+07	1.28	y	39:36	0.90	41416.6	
Total Hexa-PCB	7.50e+07	1.08	y	42:13	1.11	92547.8	Sum:133964
Total Hepta-PCB	4.20e+07	1.07	y	44:10	1.42	83394.5	
Total Octa-PCB	4.58e+06	1.02	y	48:23	0.96	14214.7	
Total Octa-PCB	3.83e+06	0.89	y	52:58	1.33	7303.96	Sum:21518.6
Total Nona-PCB	1.37e+06	1.38	y	53:06	1.01	3729.05	
Total Deca-PCB	2.10e+05	1.08	y	56:54	1.17	606.405	

Total PCB Conc:471672.126986

Integrations
by
Analyst: DMS

Date: 2/10/15

Client ID: AS-CB-05-20150120-S Filename: 150205E1 S:9 Acq: 5-FEB-15 17:32:09 ConCal: ST150205E1-1
Lab ID: 1500108-02@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol:2.0364 EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	LCL	UCL		Conc	Rec
13C-PCB-1	1.42e+07	3.39	y	0.87	16:10	0.623	0.629	0.635	*	8900	90.6
13C-PCB-3	1.49e+07	3.38	y	0.91	18:46	0.723	0.725	0.733		8940	91.0
13C-PCB-4	9.22e+06	1.54	y	0.59	20:06	0.774	0.775	0.783		8600	87.6
13C-PCB-9	1.40e+07	1.61	y	0.90	21:53	0.843	0.842	0.850		8530	86.9
13C-PCB-11	1.52e+07	1.59	y	0.94	25:16	0.973	0.968	0.978		8850	90.1
13C-PCB-19	7.49e+06	1.08	y	0.53	24:15	0.934	0.930	0.940		7700	78.4
13C-PCB-28	1.38e+07	1.04	y	0.93	29:07	1.004	0.999	1.009		8850	90.1
13C-PCB-32	1.11e+07	1.14	y	0.80	27:10	1.046	1.040	1.050		7660	78.0
13C-PCB-37	1.31e+07	1.05	y	0.84	33:05	1.140	1.131	1.143		9380	95.5
13C-PCB-47	8.97e+06	0.76	y	0.81	32:04	0.871	0.866	0.874		8670	88.3
13C-PCB-52	8.25e+06	0.81	y	0.77	31:33	0.857	0.853	0.861		8400	85.5
13C-PCB-54	9.91e+06	0.79	y	0.97	27:59	0.760	0.758	0.766		8020	81.6
13C-PCB-70	1.11e+07	0.77	y	1.00	35:34	0.966	0.961	0.971		8720	88.8
13C-PCB-77	1.01e+07	0.83	y	0.94	39:42	1.078	1.073	1.083		8460	86.1
13C-PCB-80	1.13e+07	0.79	y	1.03	35:59	0.978	0.972	0.982		8590	87.4
13C-PCB-81	1.01e+07	0.81	y	0.92	39:06	1.062	1.057	1.067		8640	87.9
13C-PCB-95	4.72e+06	1.58	y	0.74	35:51	0.913	0.908	0.918		8920	90.8
13C-PCB-97	4.57e+06	1.65	y	0.70	38:51	0.989	0.984	0.994		9080	92.5
13C-PCB-101	5.13e+06	1.78	y	0.78	37:32	0.955	0.951	0.961		9160	93.3
13C-PCB-104	6.46e+06	1.70	y	1.00	32:45	0.834	0.828	0.836		9020	91.9
13C-PCB-105	8.17e+06	1.57	y	1.37	43:08	0.929	0.924	0.934		8820	89.8
13C-PCB-114	8.51e+06	1.50	y	1.36	42:17	0.910	0.905	0.915		9210	93.8
13C-PCB-118	5.79e+06	1.60	y	0.96	41:36	1.059	1.054	1.064		8450	86.1
13C-PCB-123	5.57e+06	1.57	y	0.89	41:25	1.054	1.050	1.060		8710	88.7
13C-PCB-126	7.63e+06	1.64	y	1.31	45:24	0.978	0.972	0.982		8620	87.7
13C-PCB-127	8.52e+06	1.57	y	1.47	43:29	0.937	0.931	0.941		8530	86.9
13C-PCB-138	6.29e+06	1.32	y	1.10	44:53	0.966	0.961	0.971		8440	86.0
13C-PCB-141	6.41e+06	1.33	y	1.07	44:02	0.948	0.943	0.953		8800	89.6
13C-PCB-153	6.85e+06	1.30	y	1.15	43:18	0.932	0.927	0.937		8810	89.7
13C-PCB-155	4.40e+06	1.31	y	0.84	37:05	0.944	0.939	0.949		7330	74.6
13C-PCB-156	6.87e+06	1.29	y	1.30	48:10	1.037	1.032	1.042		7820	79.6
13C-PCB-157	7.54e+06	1.31	y	1.36	48:26	1.043	1.038	1.048		8190	83.4
13C-PCB-159	7.17e+06	1.39	y	1.25	46:11	0.995	0.989	0.999		8480	86.3
13C-PCB-167	7.54e+06	1.21	y	1.35	46:52	1.009	1.004	1.014		8230	83.8
13C-PCB-169	6.60e+06	1.15	y	1.29	50:33	1.088	1.083	1.093		7580	77.2
13C-PCB-170	2.66e+06	0.50	y	0.54	50:52	1.095	1.089	1.101		7240	73.7
13C-PCB-180	3.27e+06	0.42	y	0.68	49:27	1.065	1.060	1.070		7050	71.7
13C-PCB-188	4.91e+06	0.48	y	0.92	42:55	0.924	0.919	0.929		7910	80.5
13C-PCB-189	2.71e+06	0.48	y	0.72	52:20	1.127	1.120	1.132		5590	56.9
13C-PCB-194	4.21e+06	0.94	y	0.80	53:51	0.995	0.990	1.000		9810	99.8
13C-PCB-202	3.70e+06	0.97	y	0.84	48:22	1.041	1.036	1.046		6510	66.3
13C-PCB-206	3.10e+06	0.79	y	0.65	55:33	1.026	1.021	1.031		8860	90.2
13C-PCB-208	4.91e+06	0.82	y	1.08	53:05	0.980	0.976	0.986		8460	86.1
13C-PCB-209	2.90e+06	1.23	y	0.61	56:53	1.050	1.045	1.055		8850	90.1

CRS vs. RS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.19e+07	0.84	y	1.02	37:52	1.029	1.023	1.034	9190	93.6
13C-PCB-178	3.35e+06	0.47	y	0.61	45:42	0.984	0.979	0.990	8060	82.1

PS vs. IS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.19e+07	0.84	y	1.10	37:52	0.969	0.964	0.974	10400	106
13C-PCB-178	3.35e+06	0.47	y	0.90	45:42	0.924	0.920	0.930	11200	114

* = OK within 1668 METHOD limits

RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.79e+07	1.63	y	1.00	25:58	9820
13C-PCB-31	1.64e+07	1.05	y	1.00	29:01	9820
13C-PCB-60	1.25e+07	0.80	y	1.00	36:49	9820
13C-PCB-111	7.01e+06	1.63	y	1.00	39:17	9820
13C-PCB-128	6.66e+06	1.29	y	1.00	46:26	9820
13C-PCB-205	5.28e+06	0.92	y	1.00	54:09	9820

Analyst: DMS

Date: 2/10/15

File:150205E1 #1-728 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
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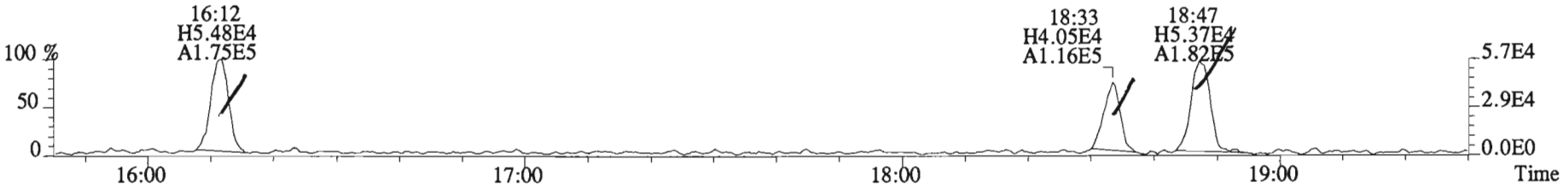
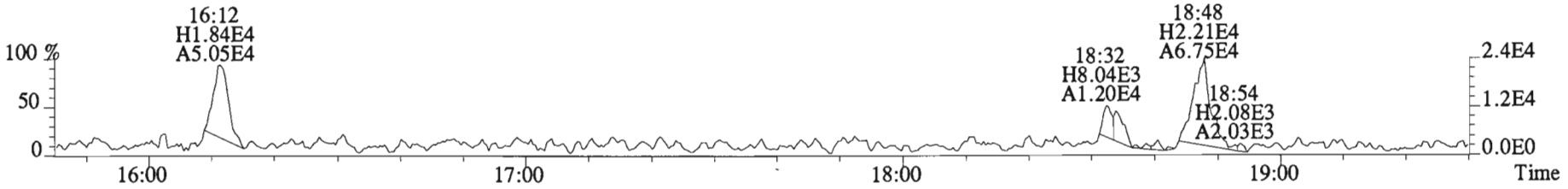


190.0363 S:9 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3280.0,0.00%,F,F)



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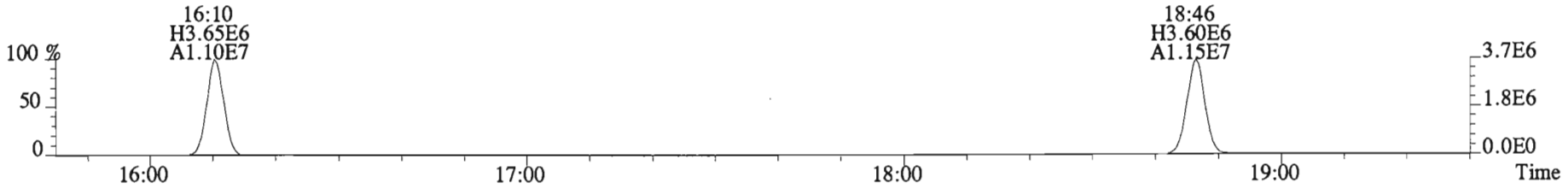

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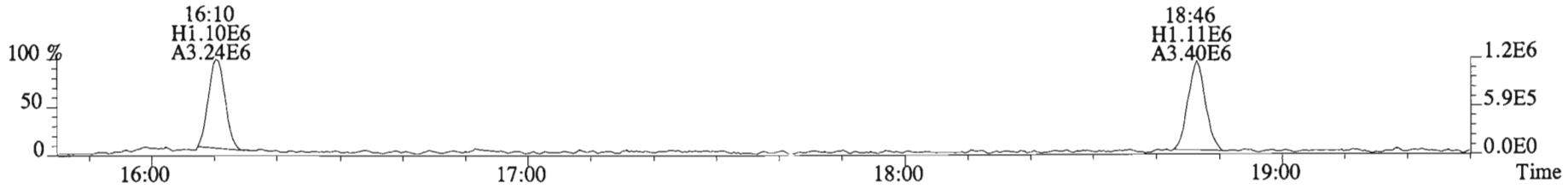
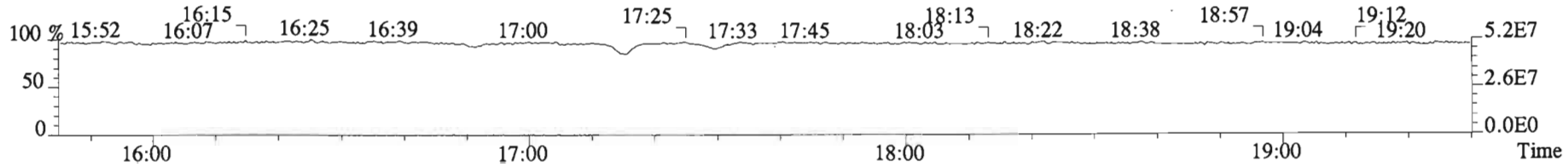


180.9880 S:9



File:150205E1 #1-728 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
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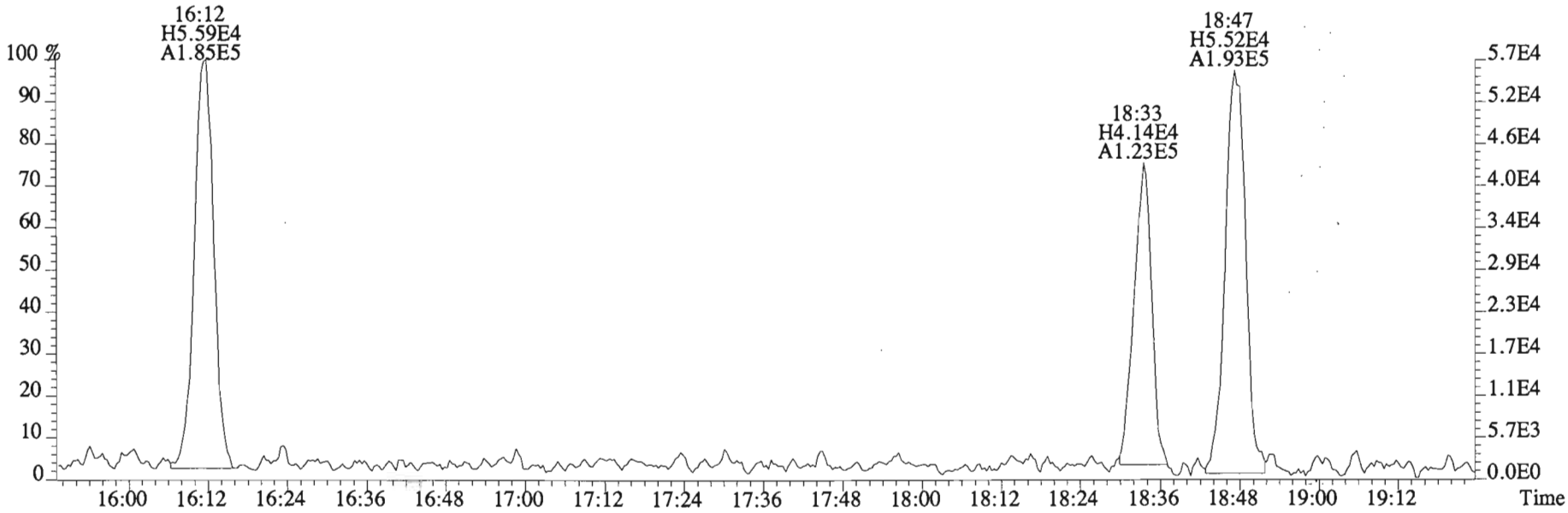

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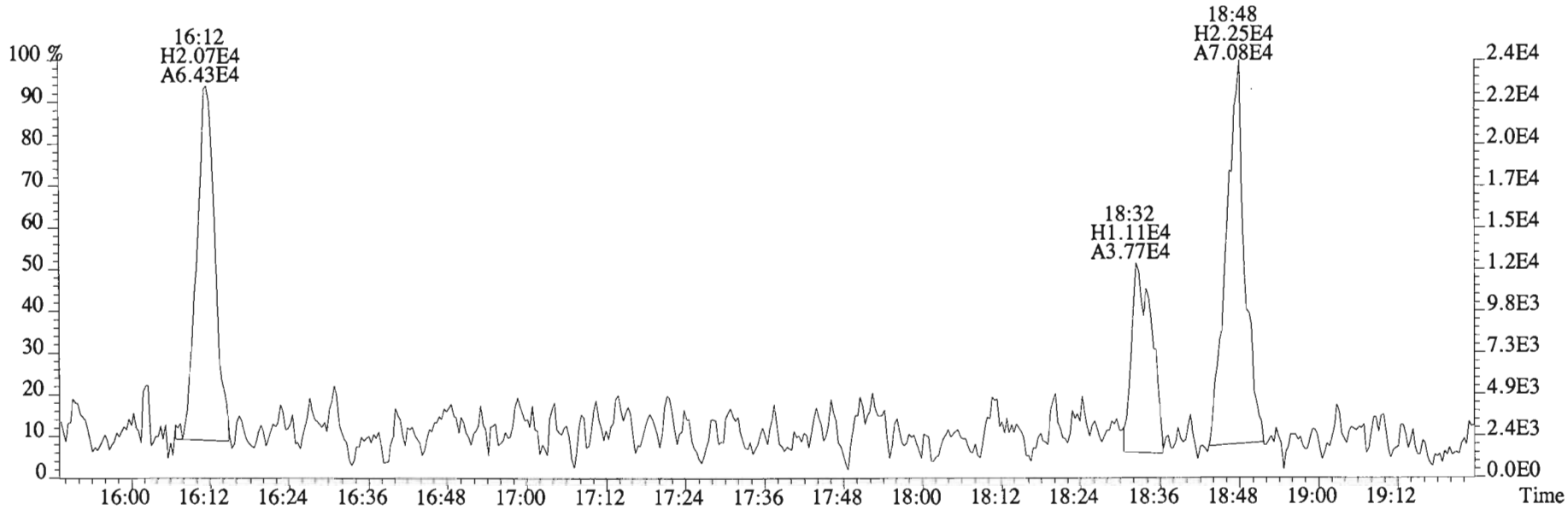
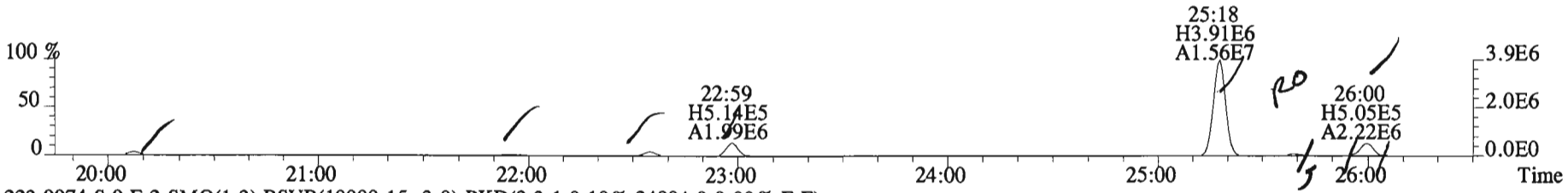
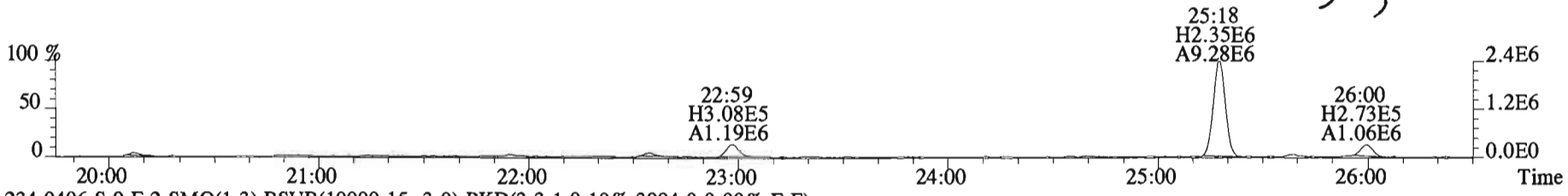


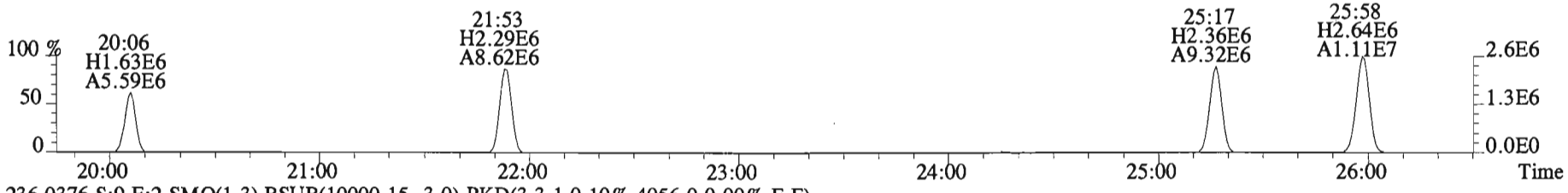
File:150205E1 #1-757 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
222.0003 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3308.0,0.00%,F,F)



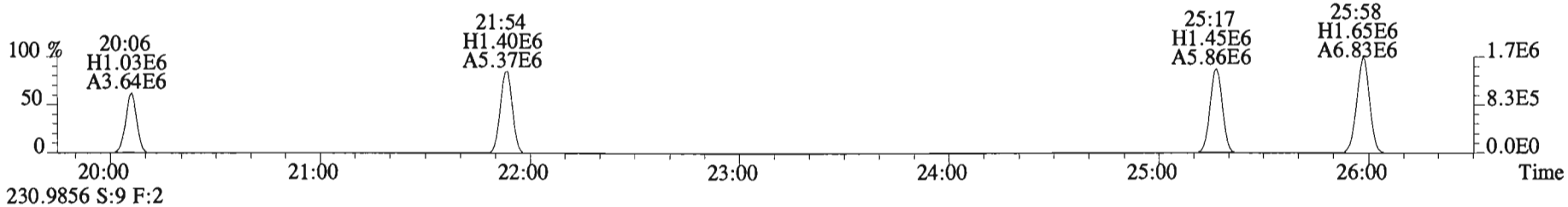
223.9974 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24804.0,0.00%,F,F)



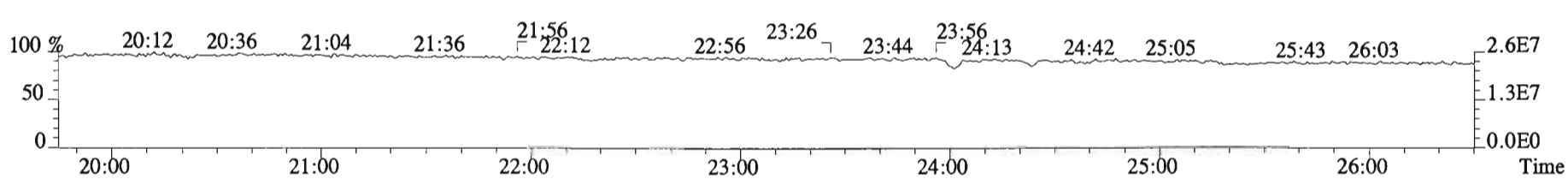
234.0406 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3984.0,0.00%,F,F)



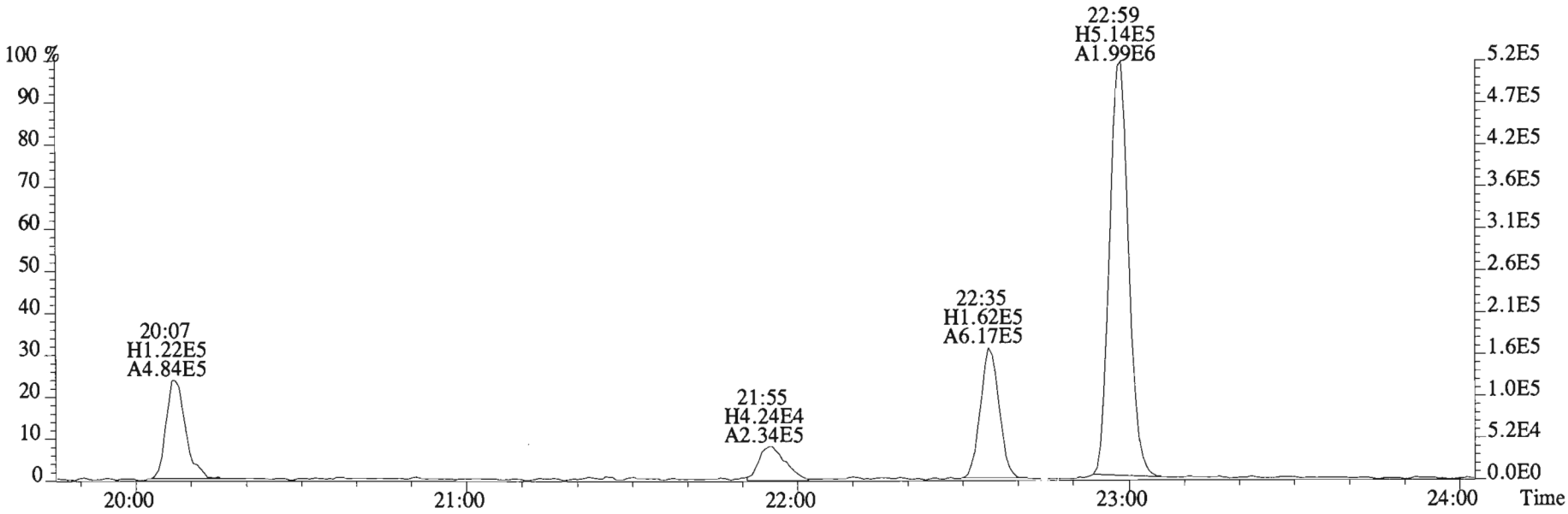
236.0376 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4056.0,0.00%,F,F)



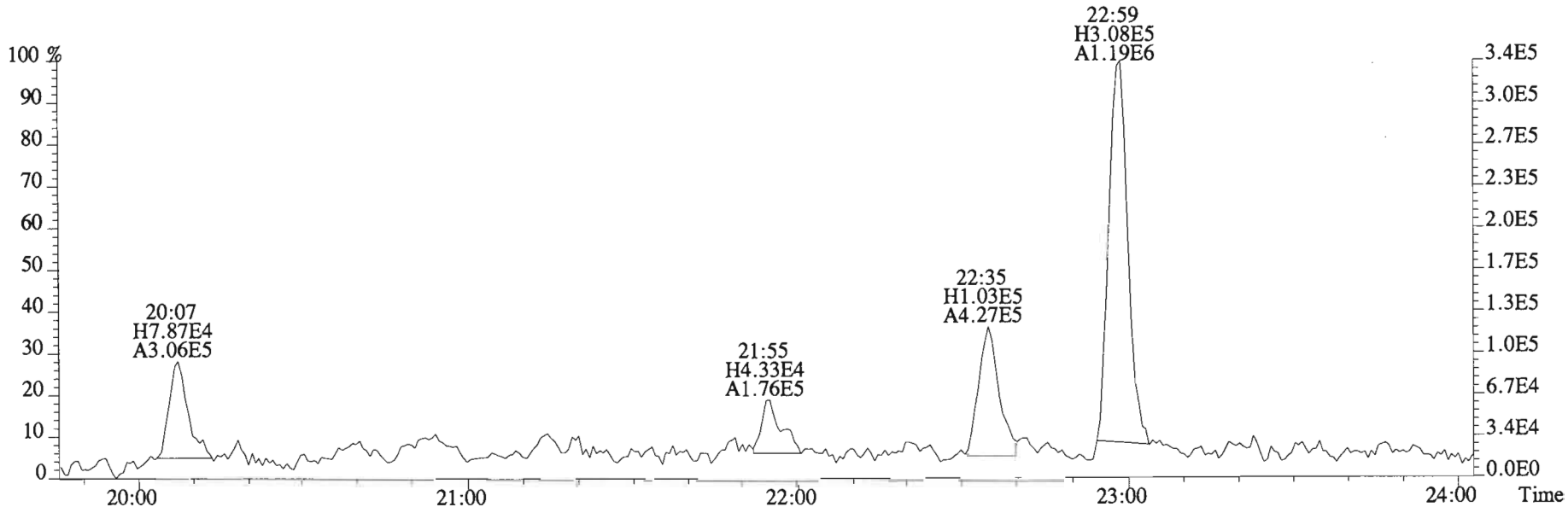
230.9856 S:9 F:2



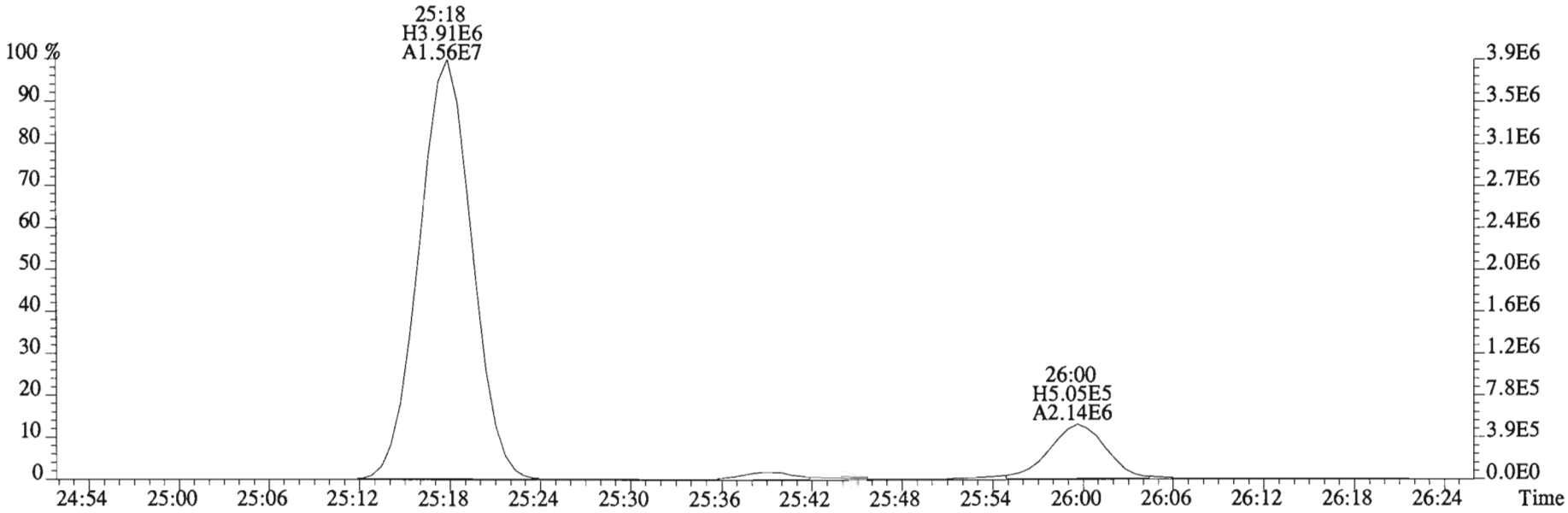
File:150205E1 #1-757 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
222.0003 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3308.0,0.00%,F,F)



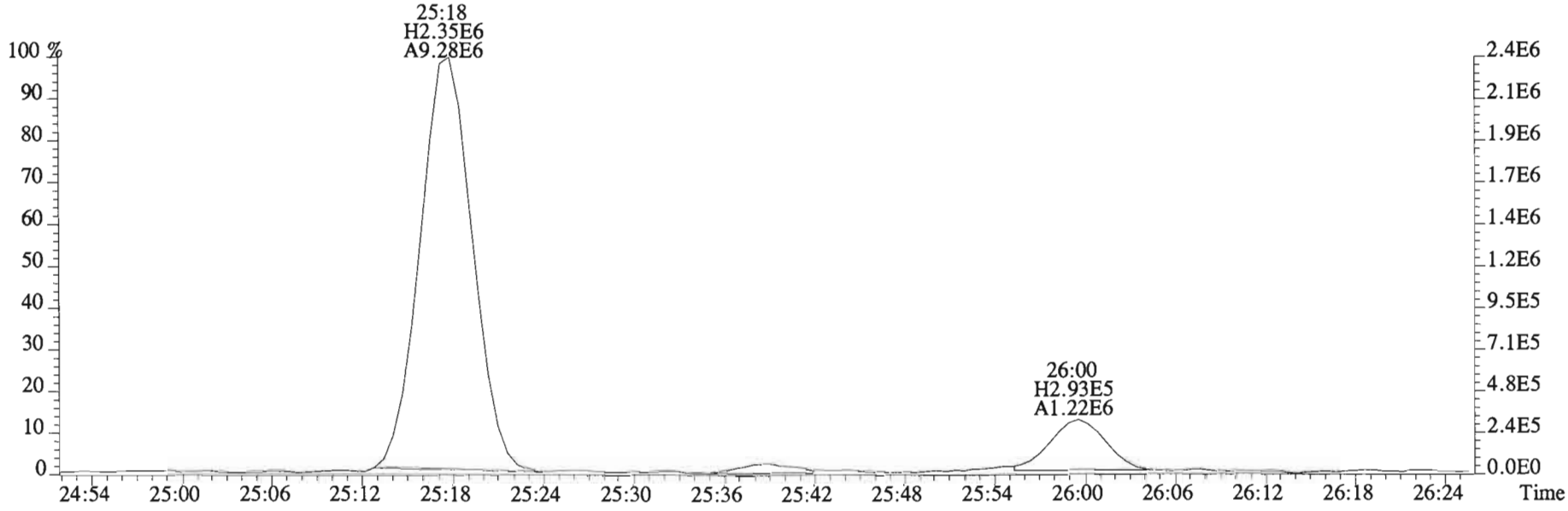
223.9974 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24804.0,0.00%,F,F)



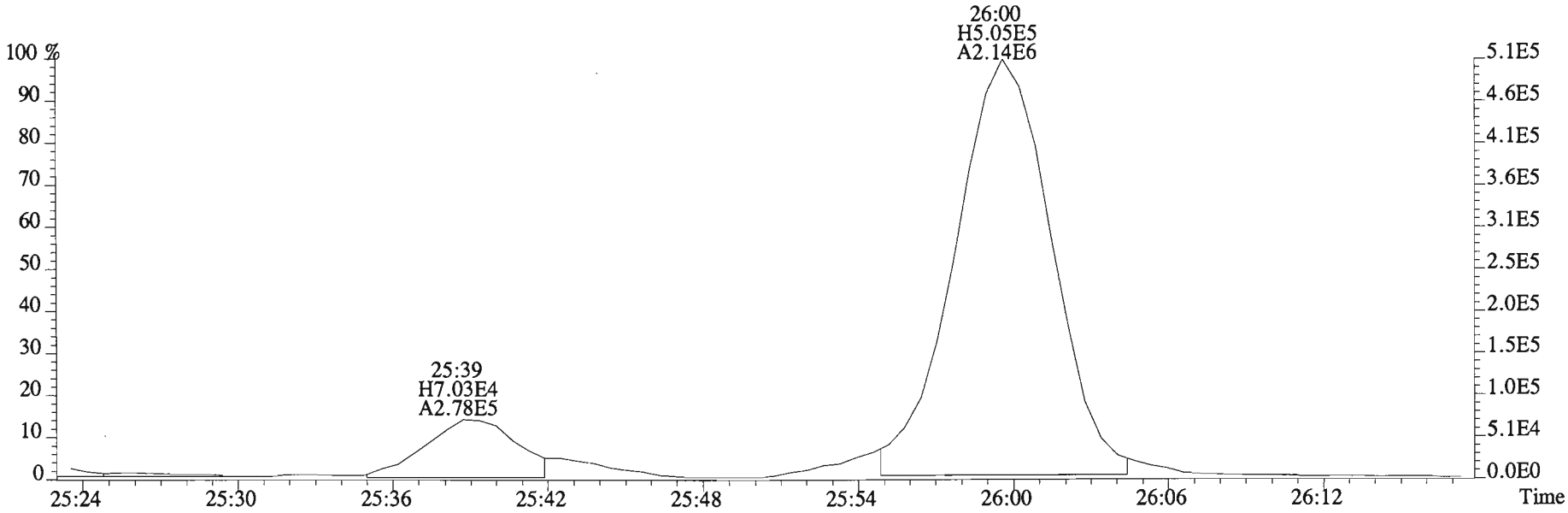
File:150205E1 #1-757 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
222.0003 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3308.0,0.00%,F,F)



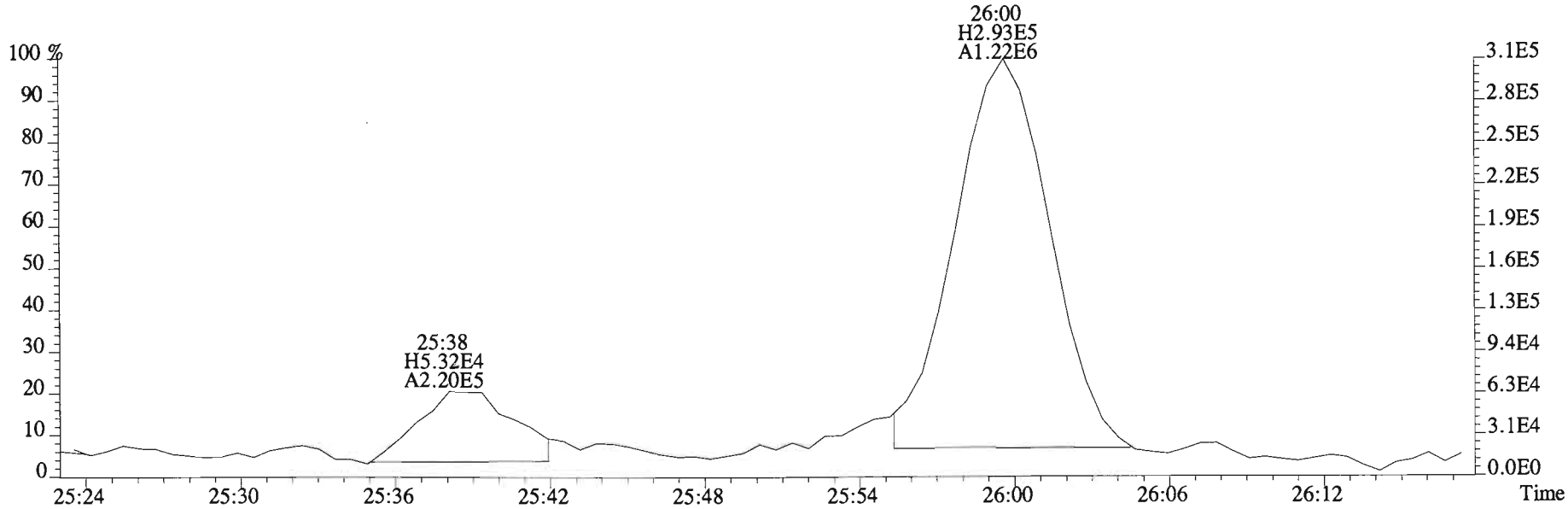
223.9974 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24804.0,0.00%,F,F)



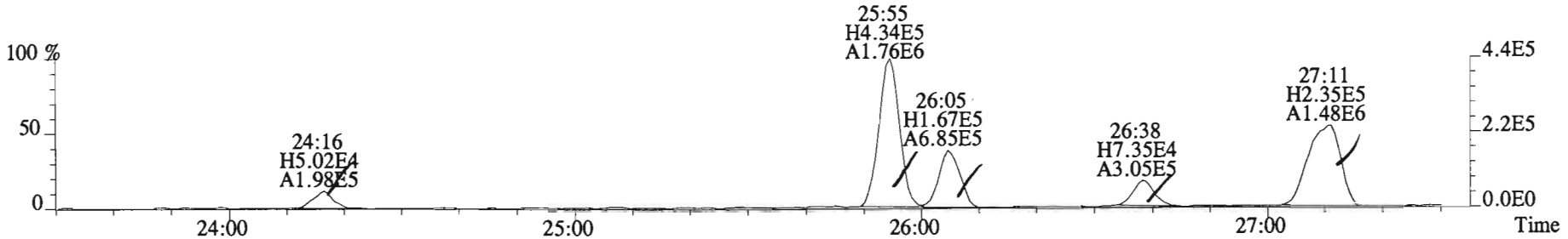
File:150205E1 #1-757 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
222.0003 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3308.0,0.00%,F,F)



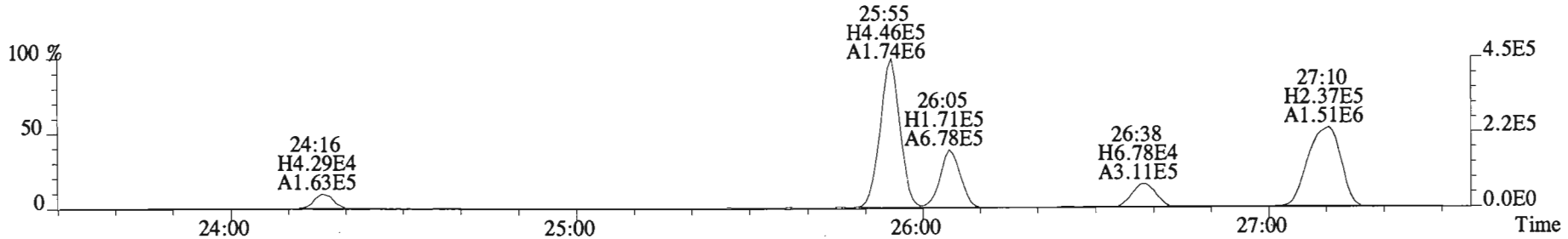
223.9974 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24804.0,0.00%,F,F)



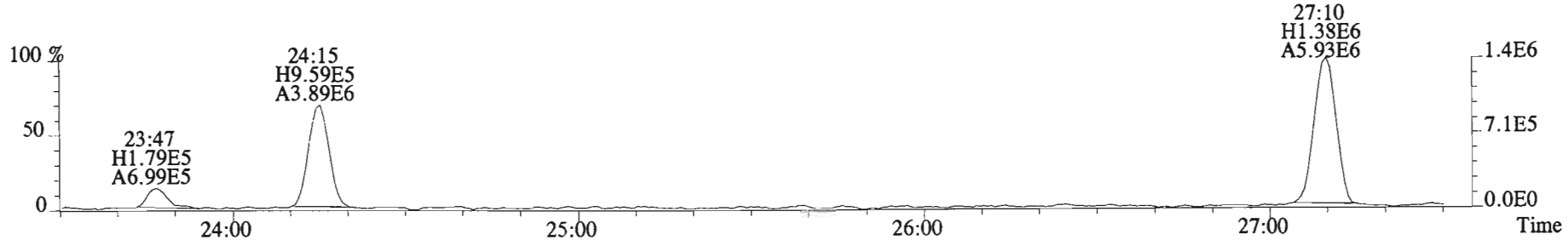
File:150205E1 #1-757 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
255.9613 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3684.0,0.00%,F,F)



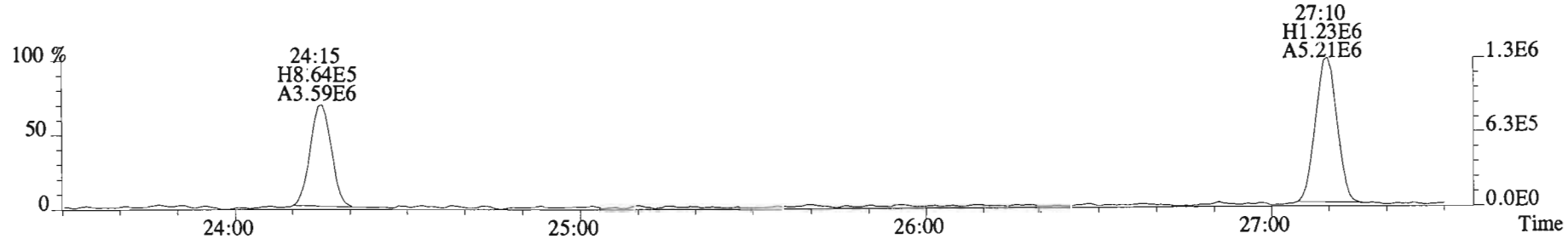
257.9584 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1892.0,0.00%,F,F)



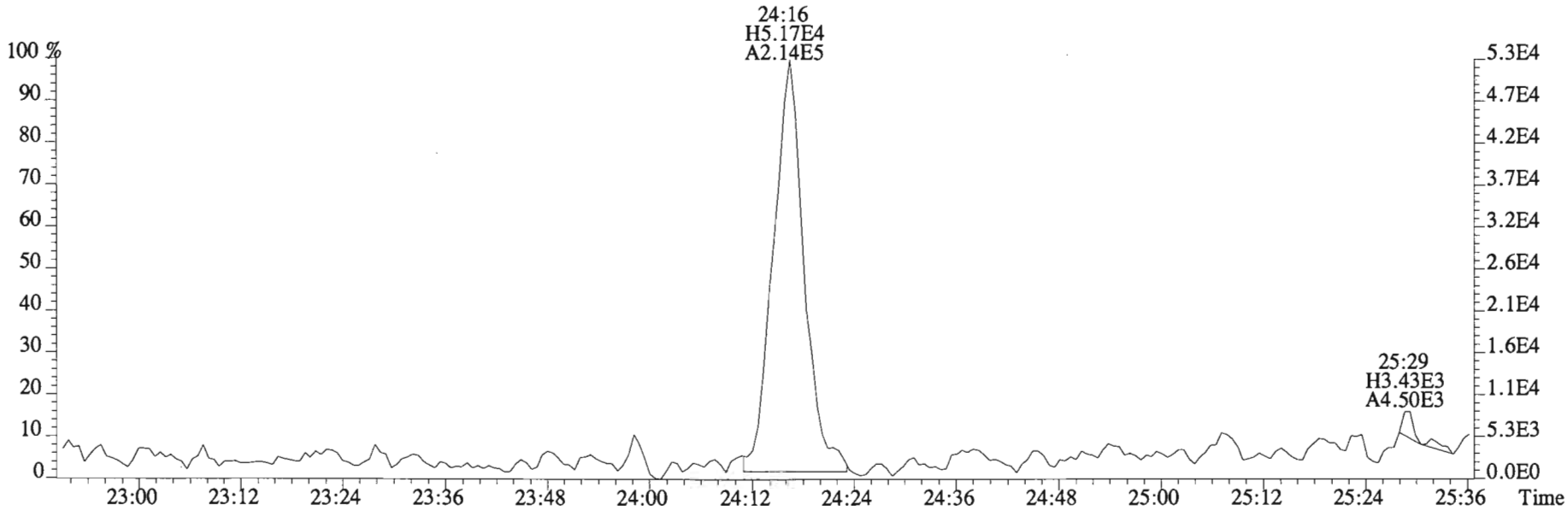
268.0016 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,27252.0,0.00%,F,F)



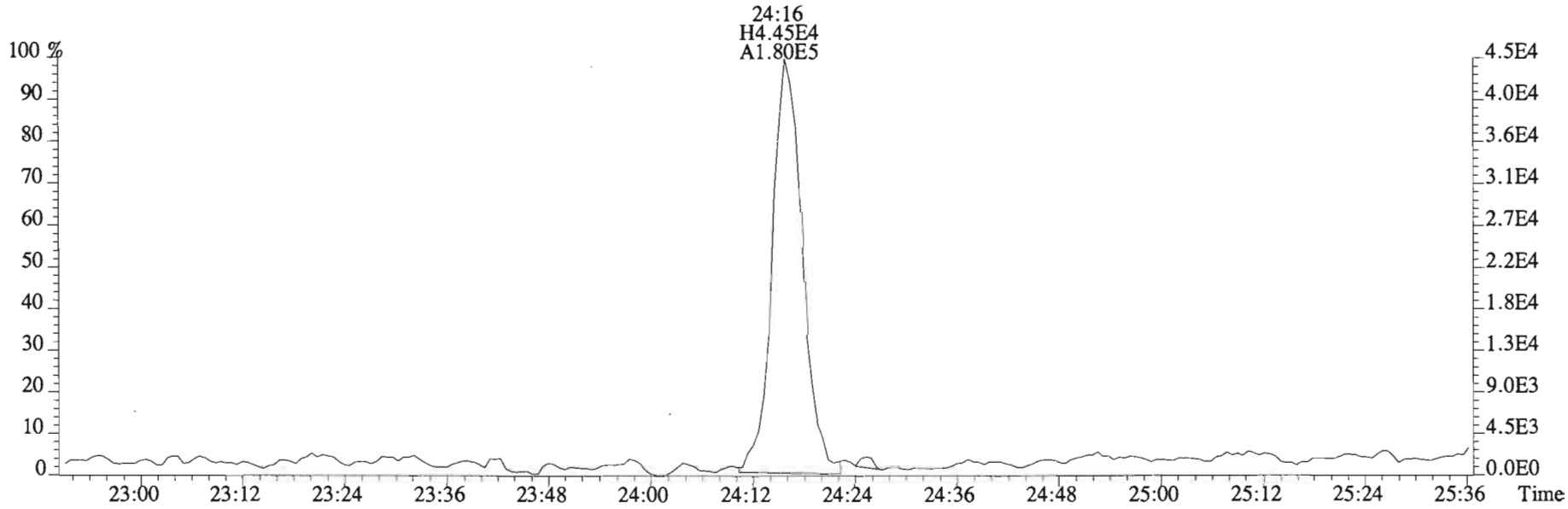
269.9986 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21624.0,0.00%,F,F)



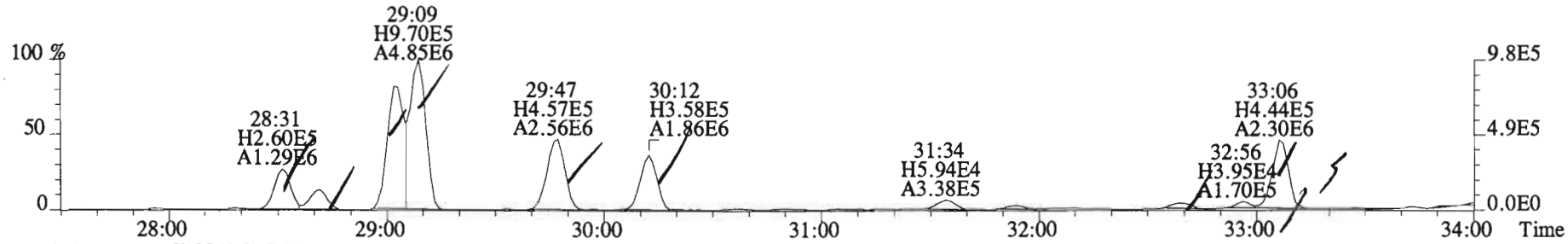
File:150205E1 #1-757 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
255.9613 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3684.0,0.00%,F,F)



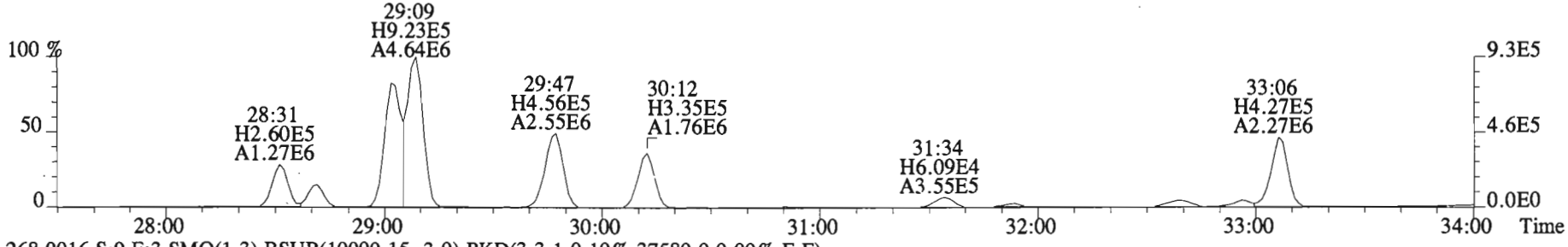
257.9584 S:9 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1892.0,0.00%,F,F)



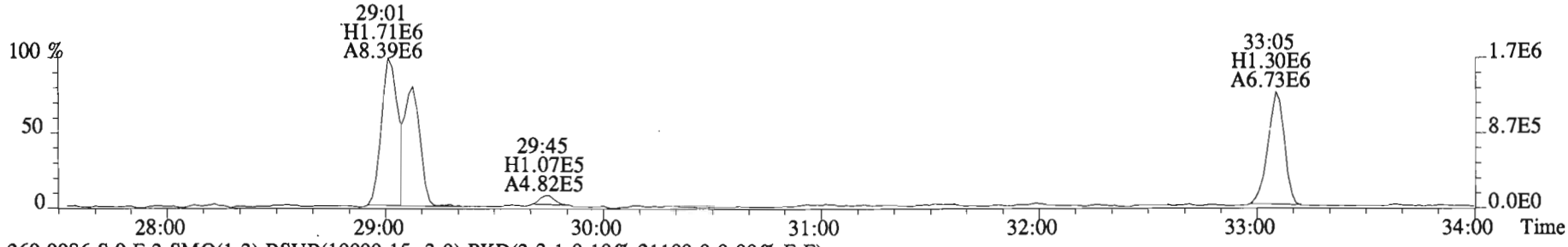
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
255.9613 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7944.0,0.00%,F,F)



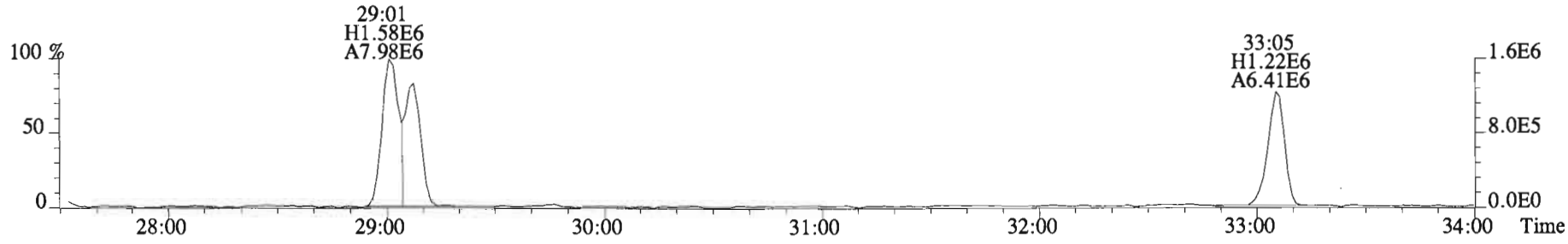
257.9584 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2412.0,0.00%,F,F)



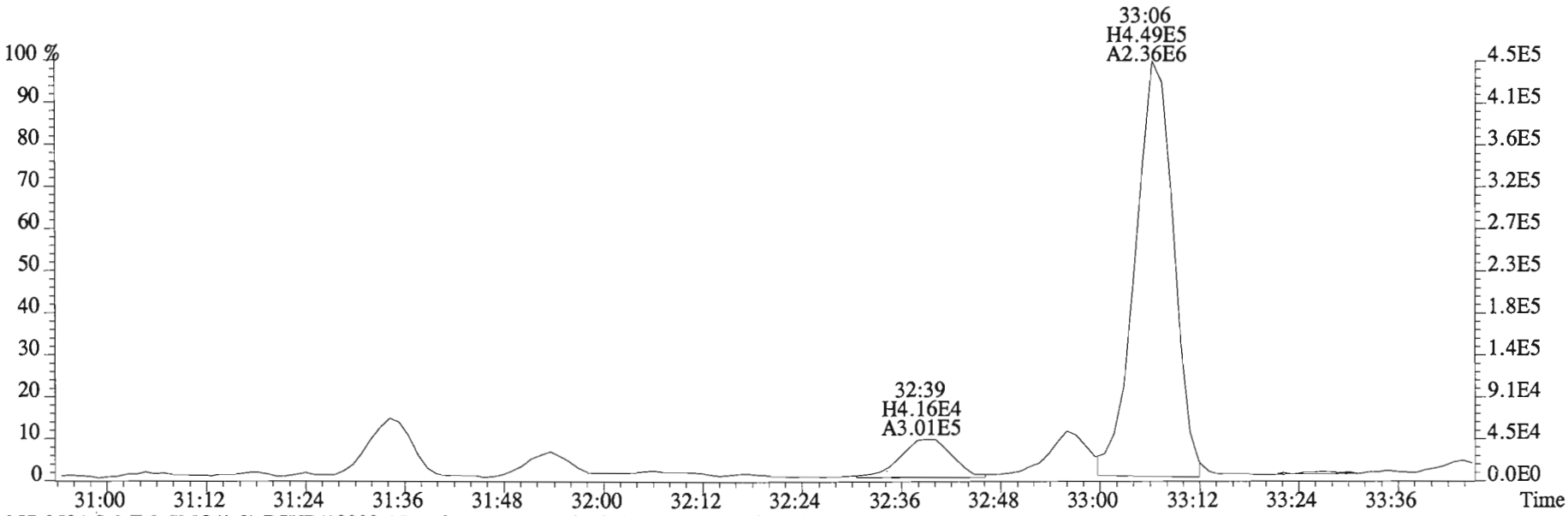
268.0016 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,37580.0,0.00%,F,F)



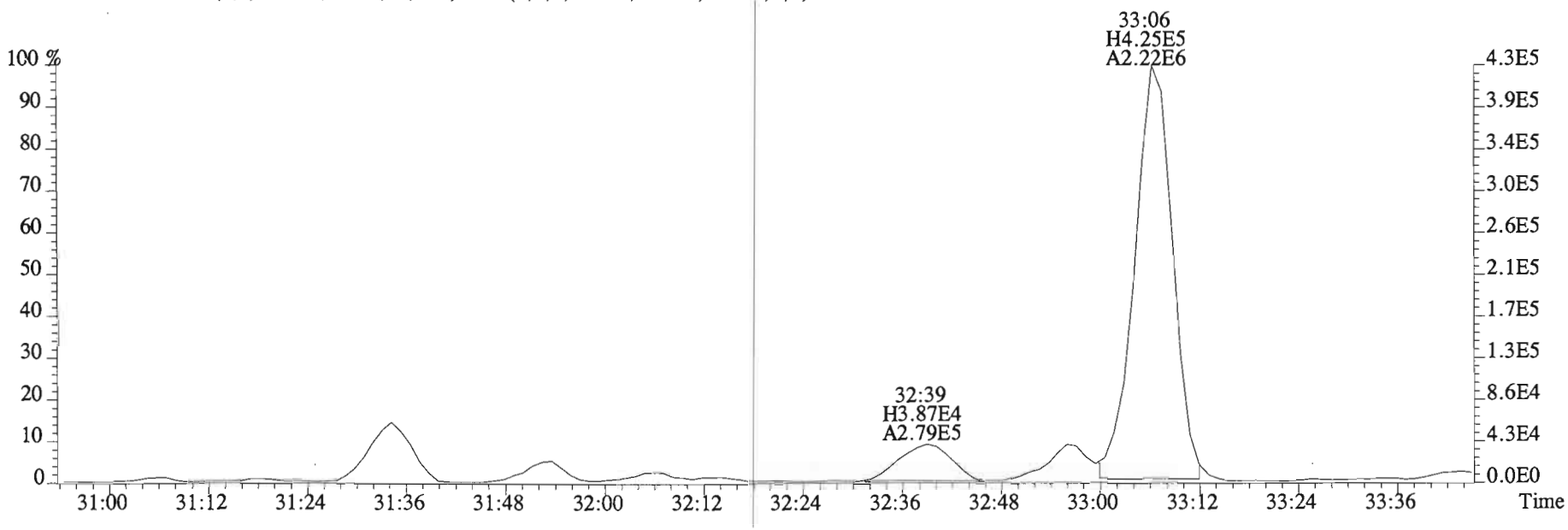
269.9986 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21100.0,0.00%,F,F)



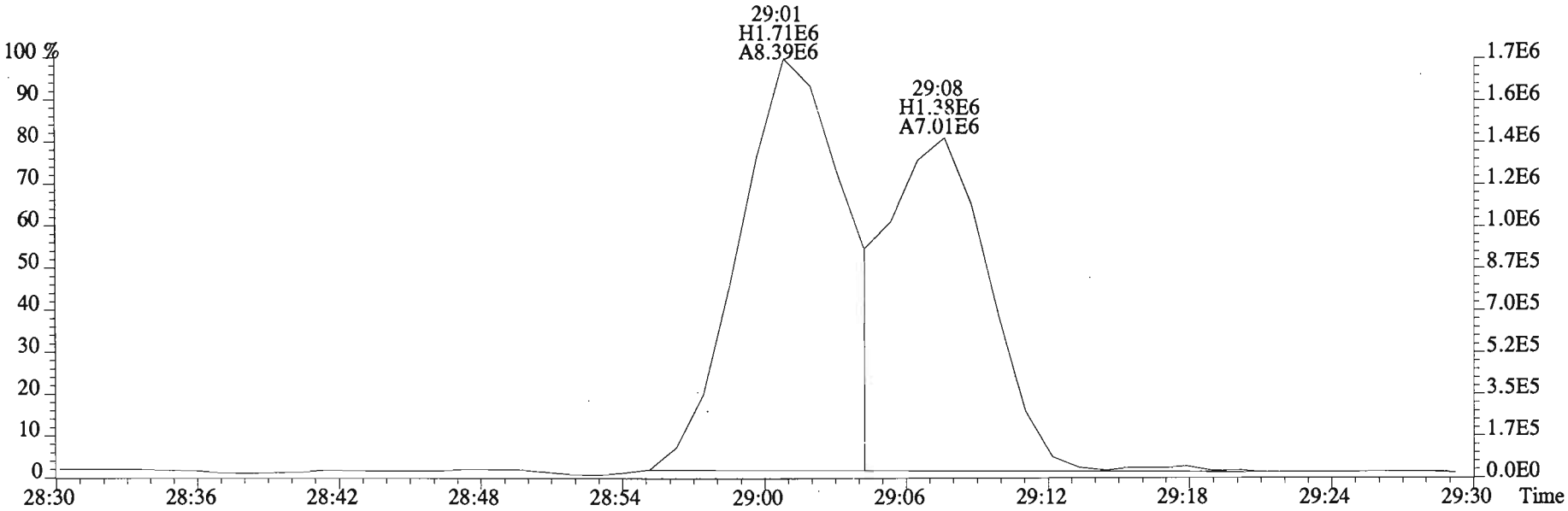
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
255.9613 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7944.0,0.00%,F,F)



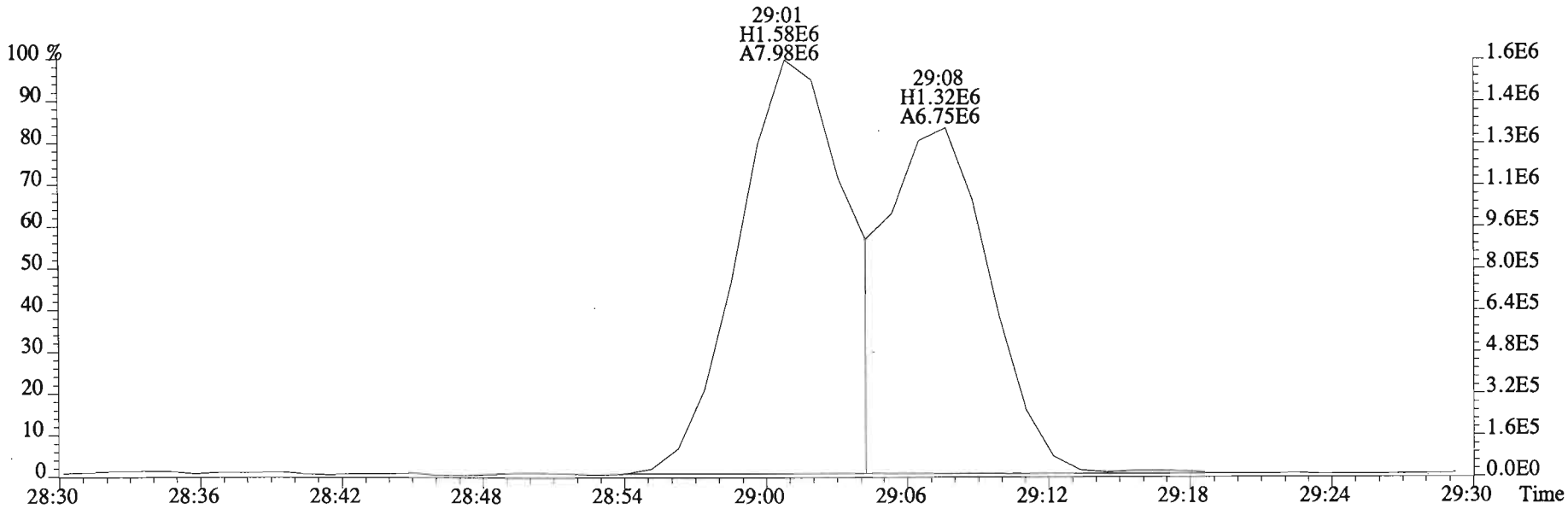
257.9584 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2412.0,0.00%,F,F)



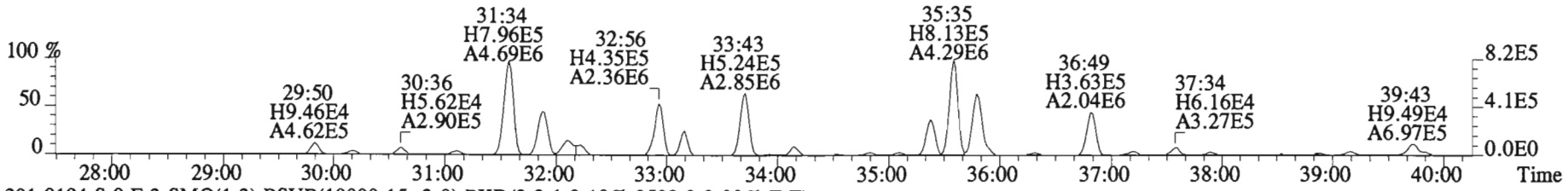
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
268.0016 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,37580.0,0.00%,F,F)



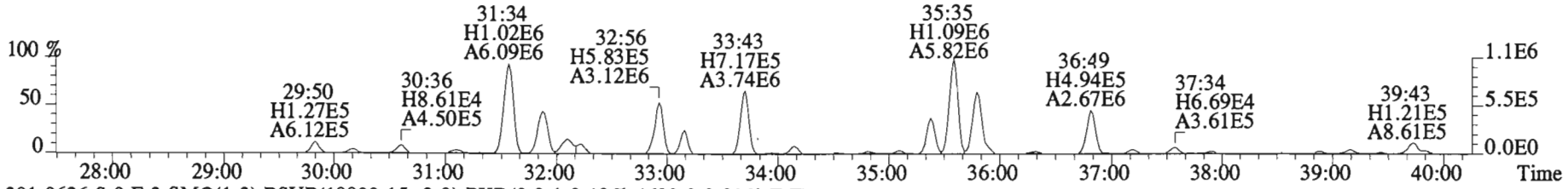
269.9986 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21100.0,0.00%,F,F)



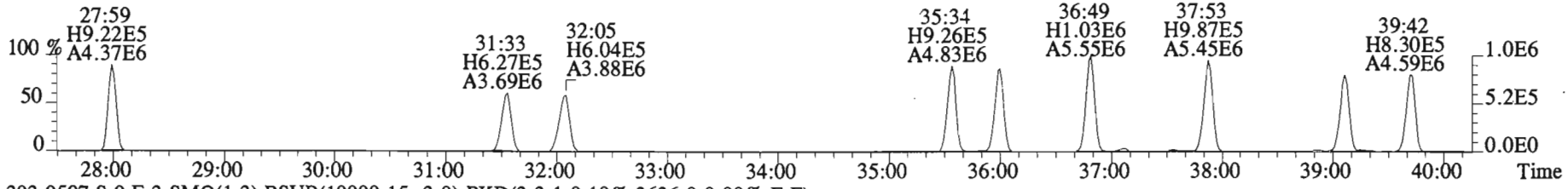
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1828.0,0.00%,F,F)



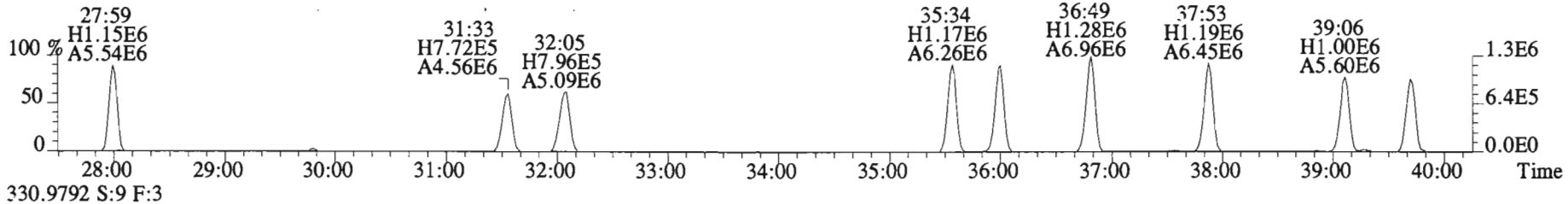
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2508.0,0.00%,F,F)



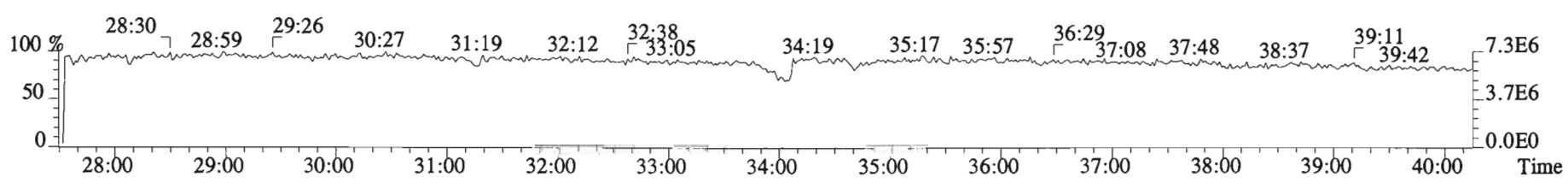
301.9626 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4620.0,0.00%,F,F)



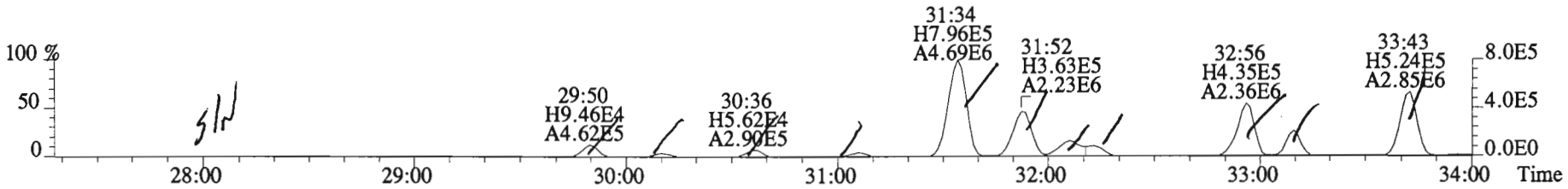
303.9597 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3636.0,0.00%,F,F)



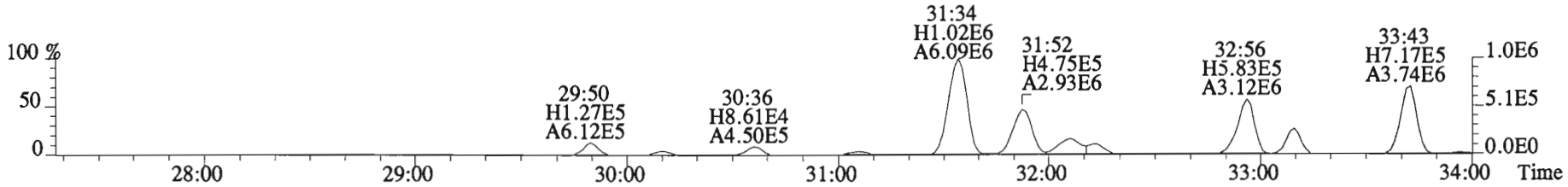
330.9792 S:9 F:3



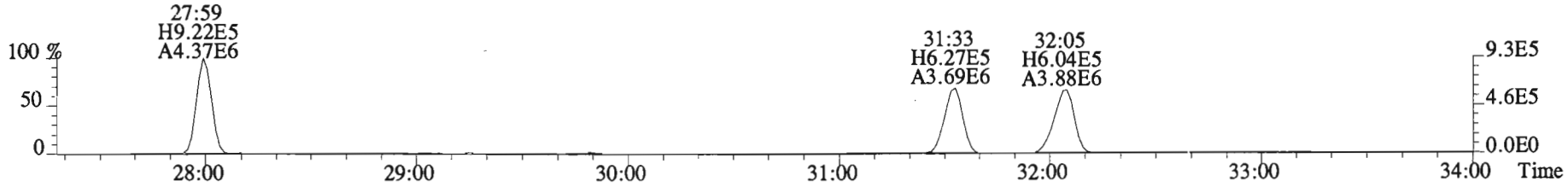
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1828.0,0.00%,F,F)



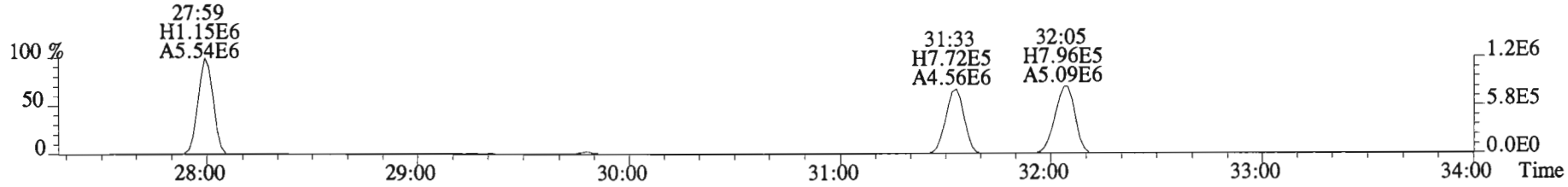
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2508.0,0.00%,F,F)



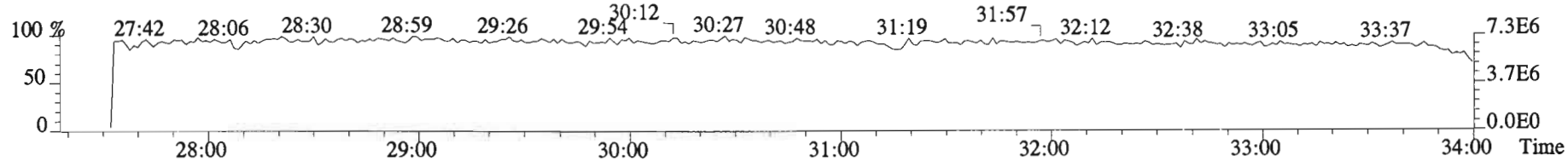
301.9626 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4620.0,0.00%,F,F)



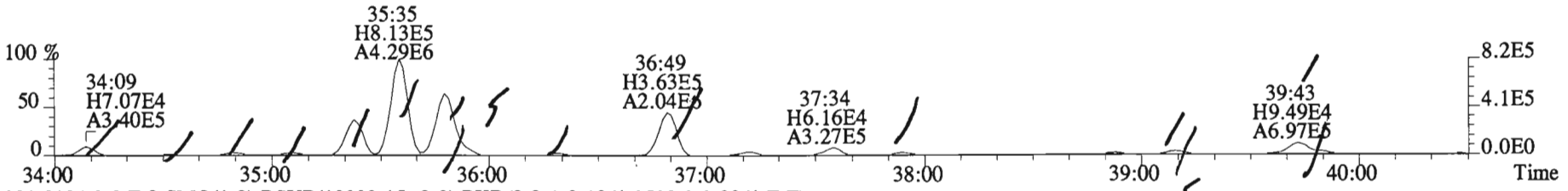
303.9597 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3636.0,0.00%,F,F)



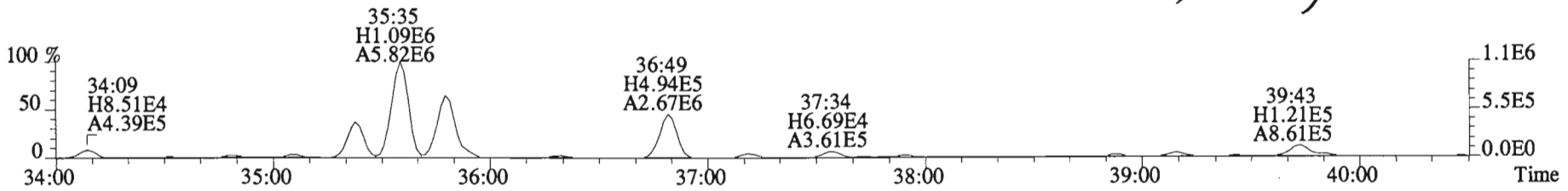
330.9792 S:9 F:3



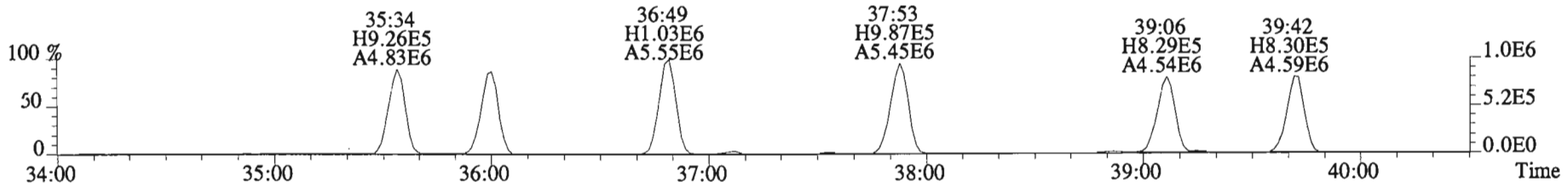
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1828.0,0.00%,F,F)



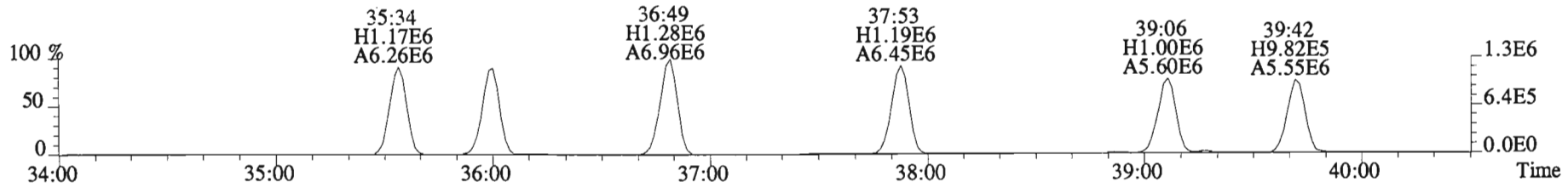
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2508.0,0.00%,F,F)



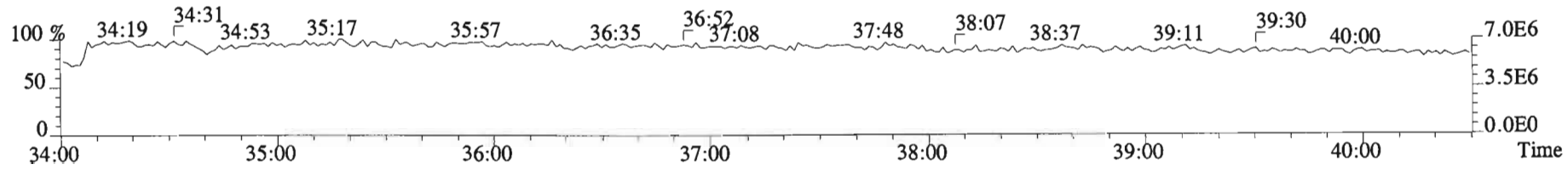
301.9626 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4620.0,0.00%,F,F)



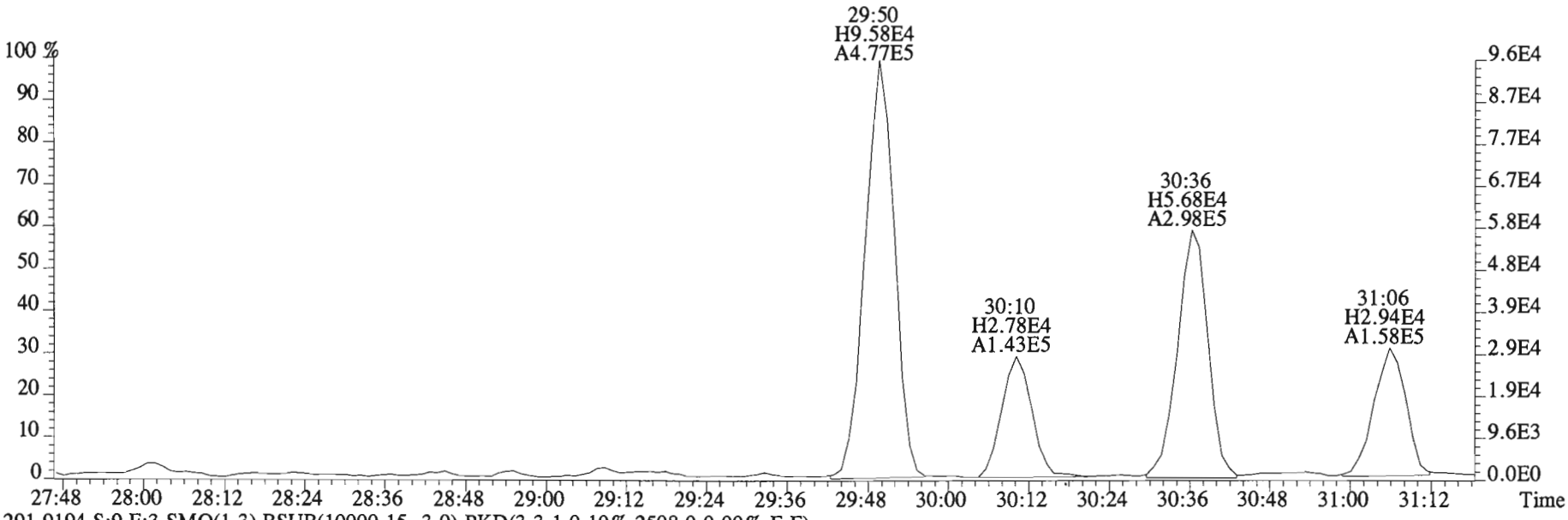
303.9597 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3636.0,0.00%,F,F)



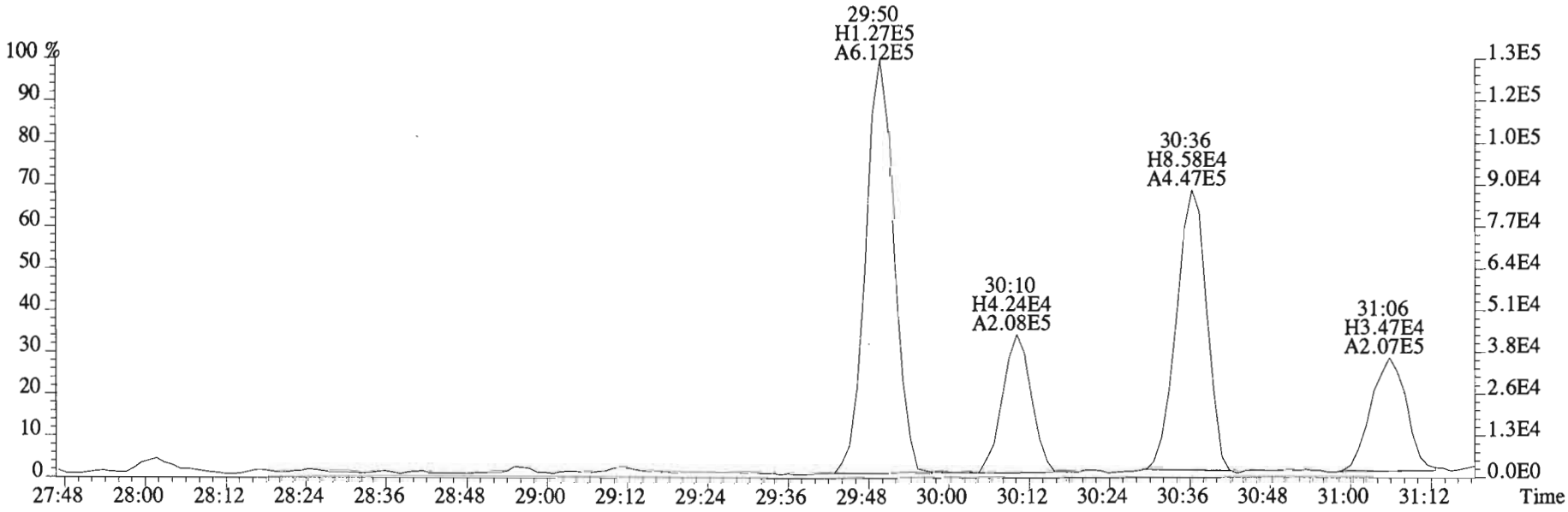
330.9792 S:9 F:3



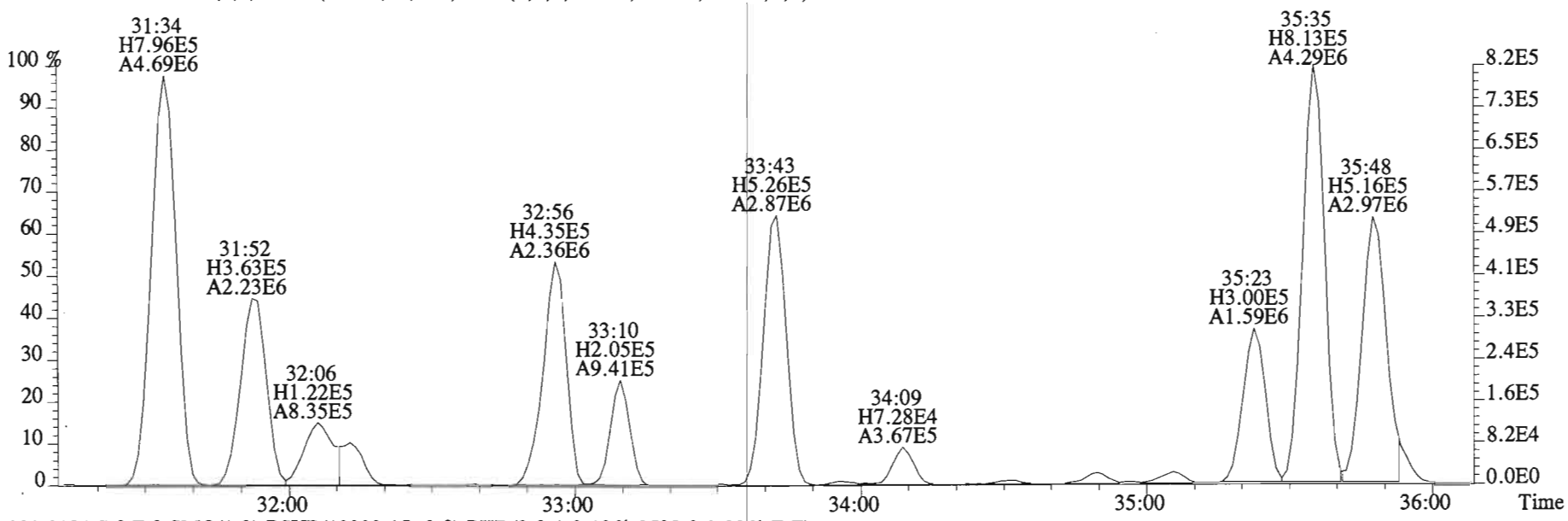
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1828.0,0.00%,F,F)



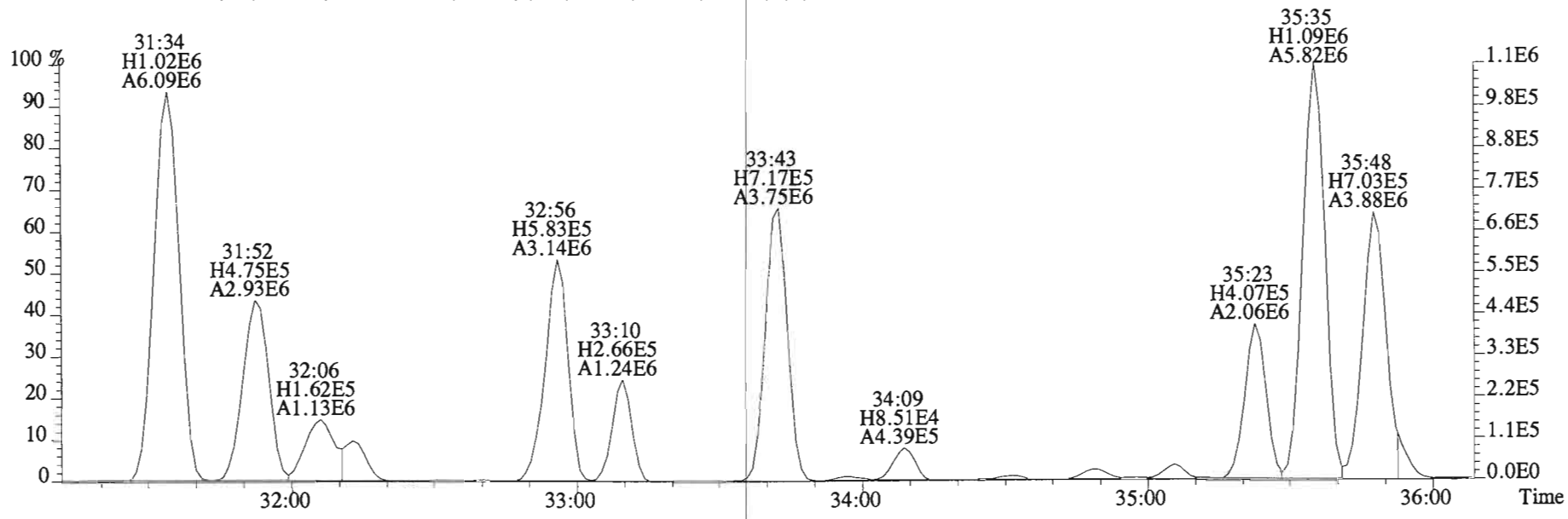
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2508.0,0.00%,F,F)



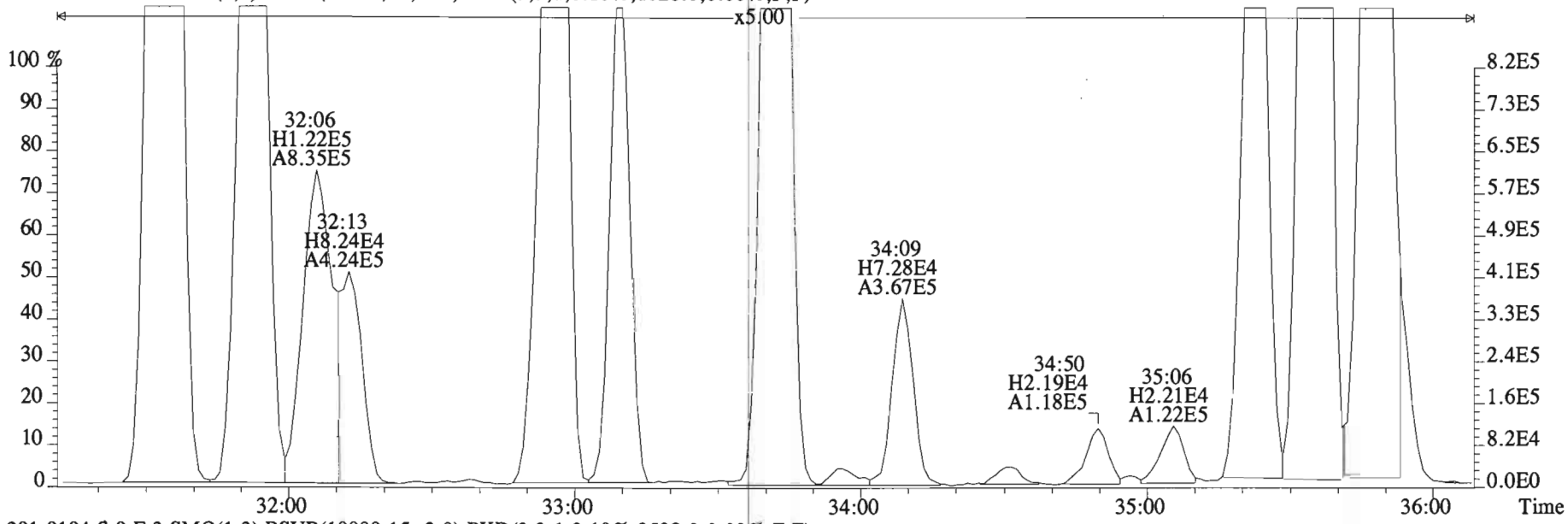
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1828.0,0.00%,F,F)



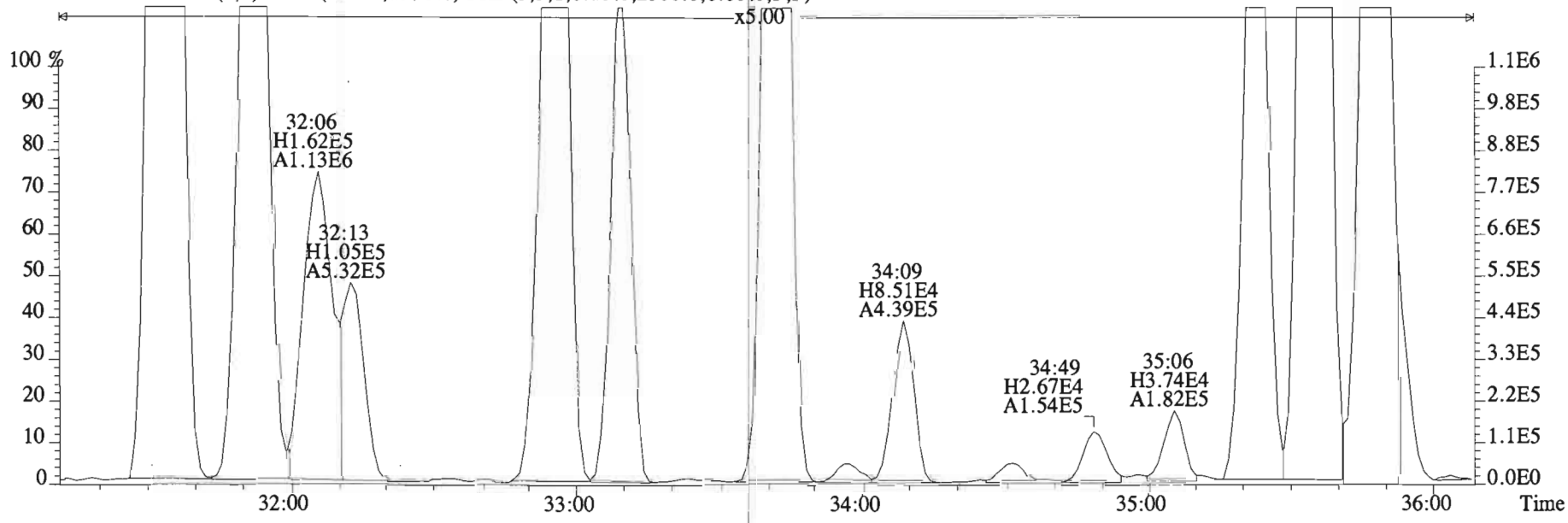
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2508.0,0.00%,F,F)



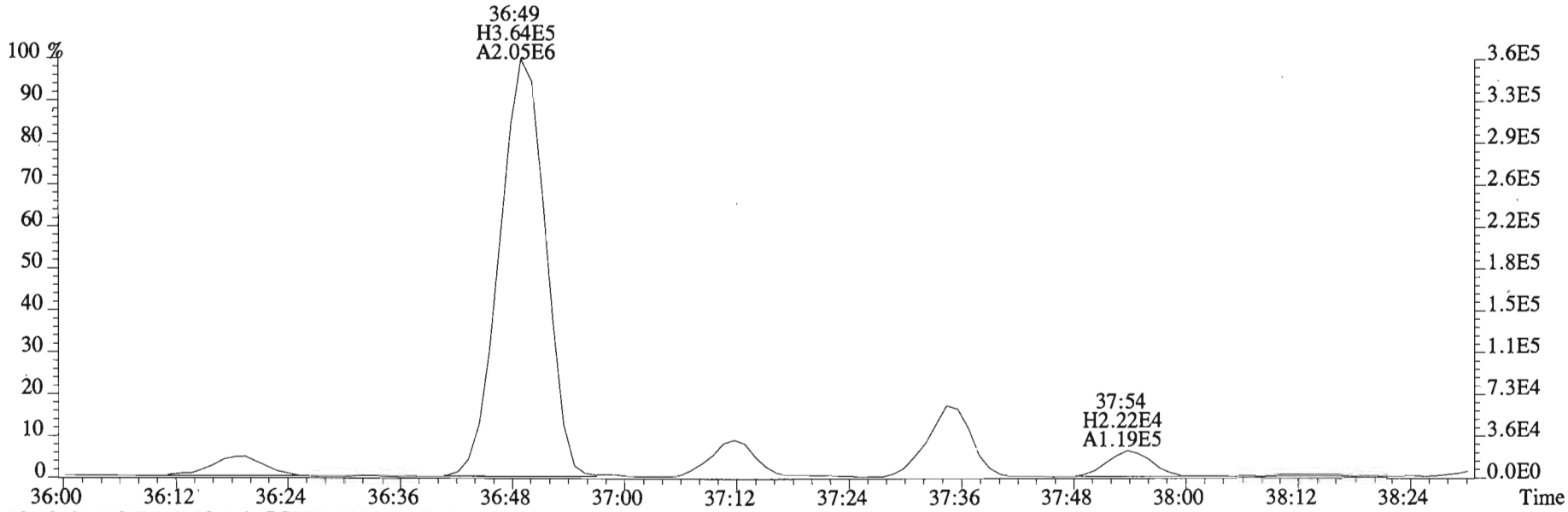
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1828.0,0.00%,F,F)



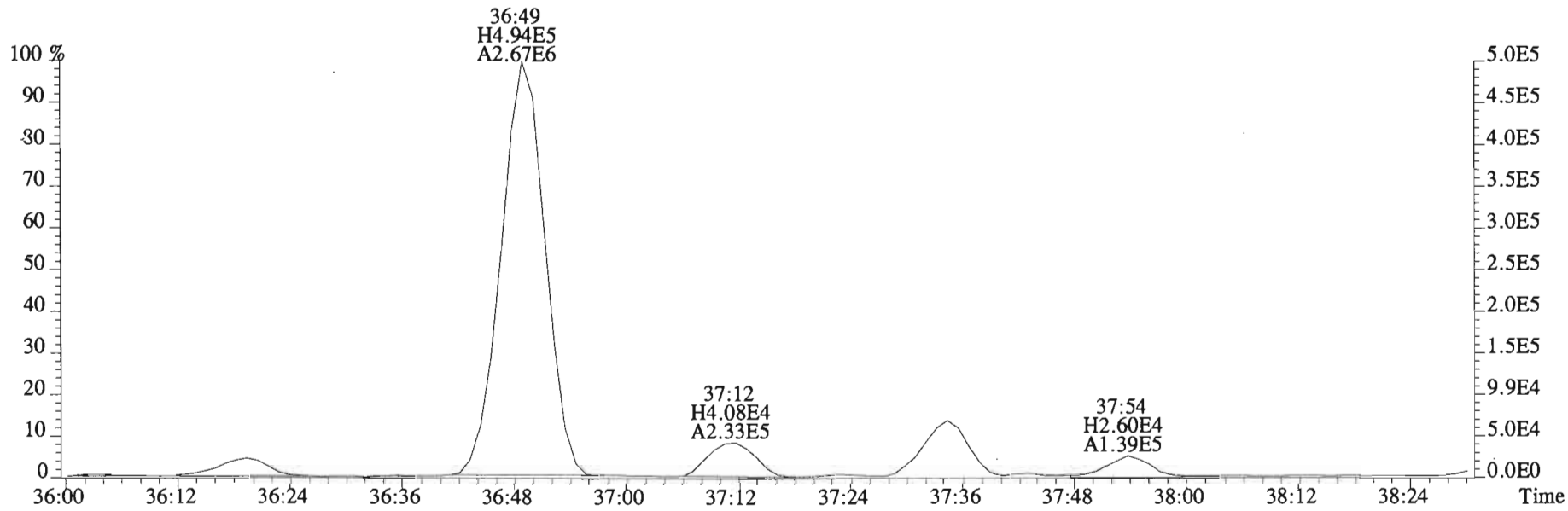
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2508.0,0.00%,F,F)



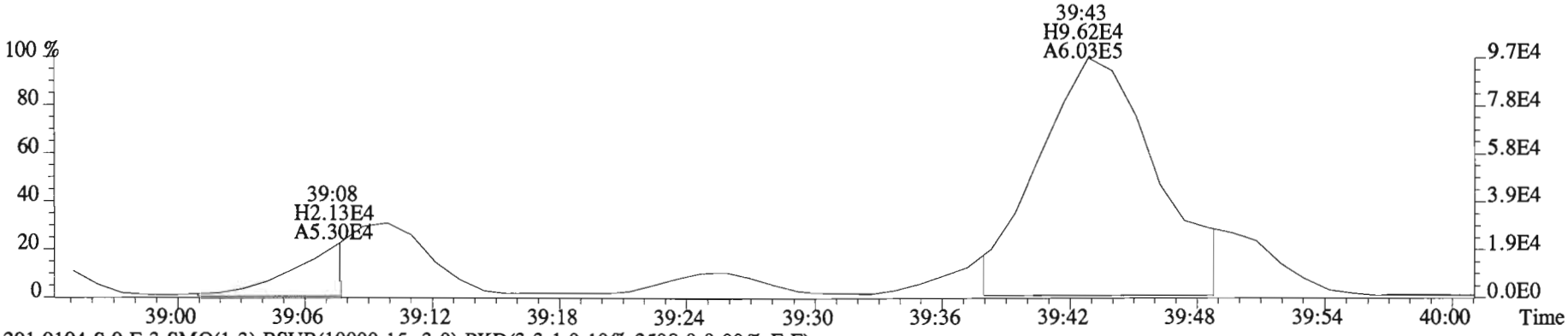
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1828.0,0.00%,F,F)



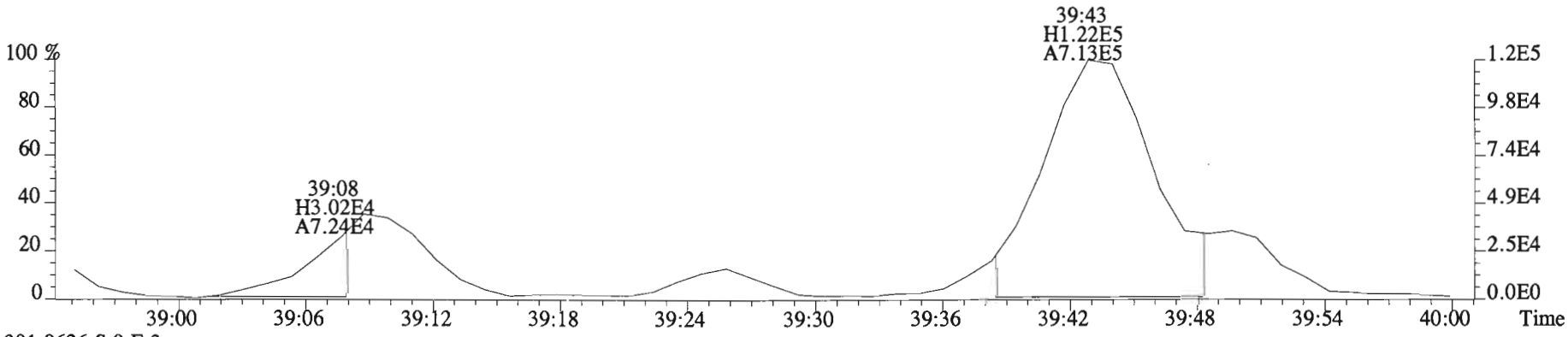
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2508.0,0.00%,F,F)



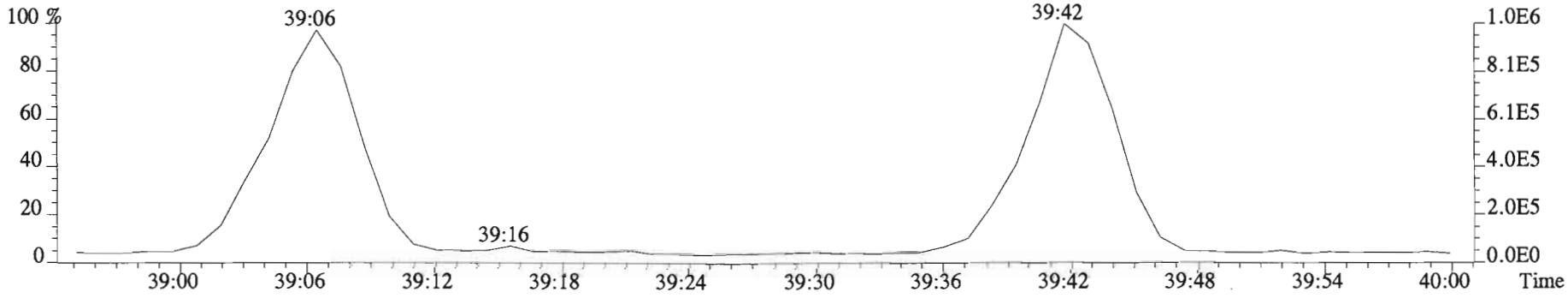
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
289.9224 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1828.0,0.00%,F,F)



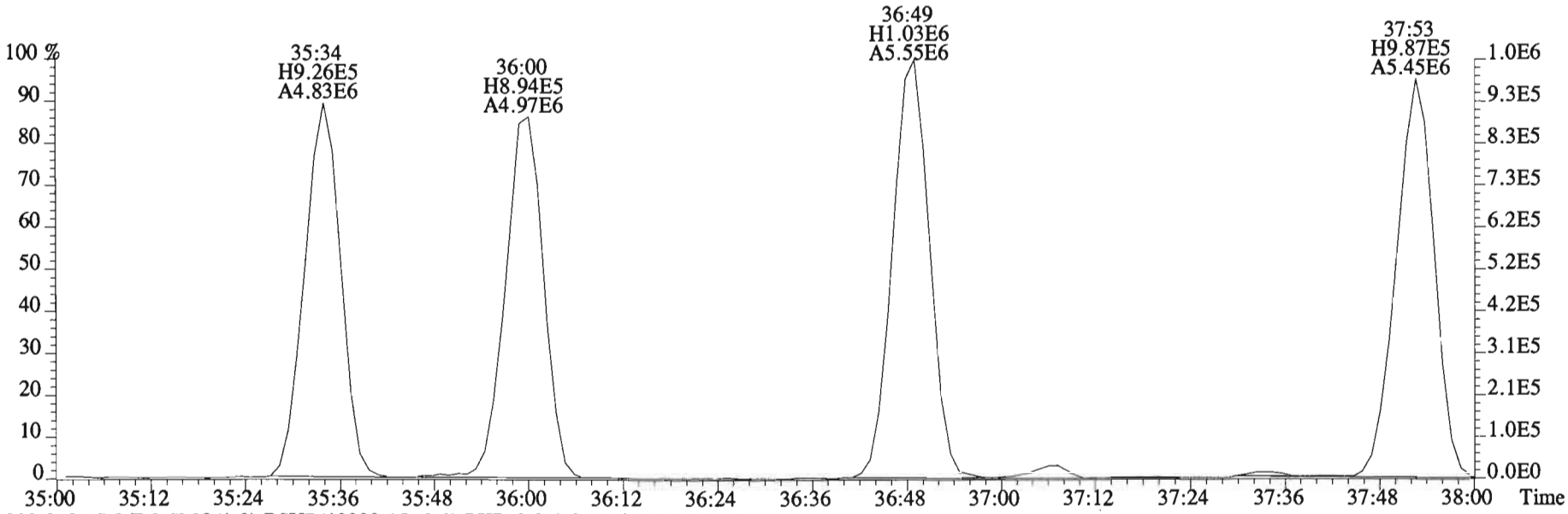
291.9194 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2508.0,0.00%,F,F)



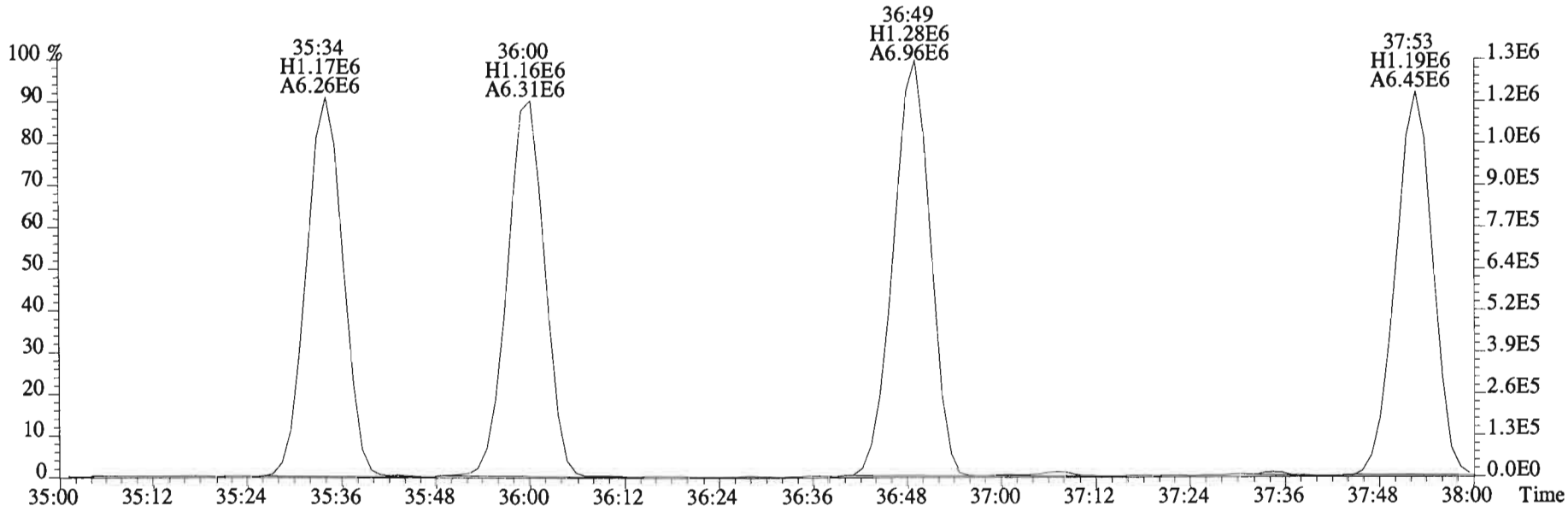
301.9626 S:9 F:3



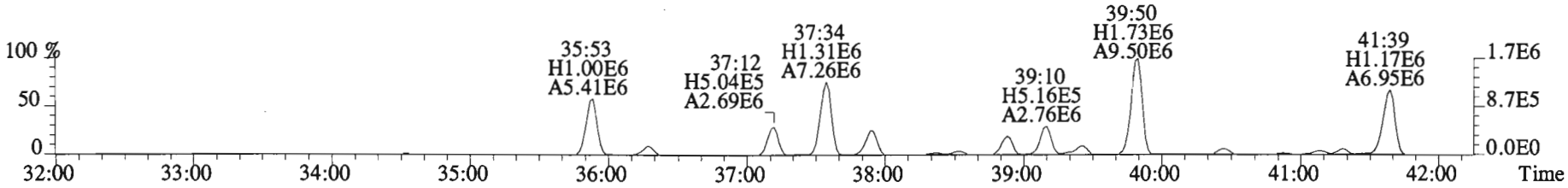
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
301.9626 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4620.0,0.00%,F,F)



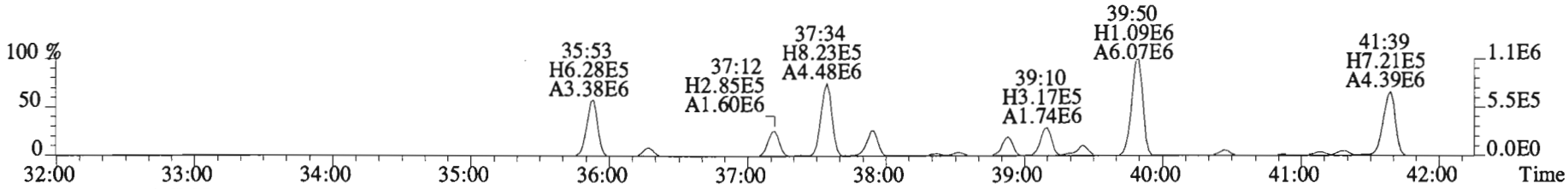
303.9597 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3636.0,0.00%,F,F)



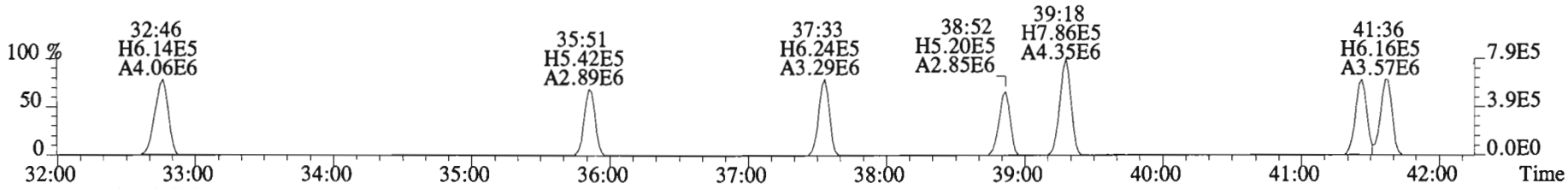
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3272.0,0.00%,F,F)



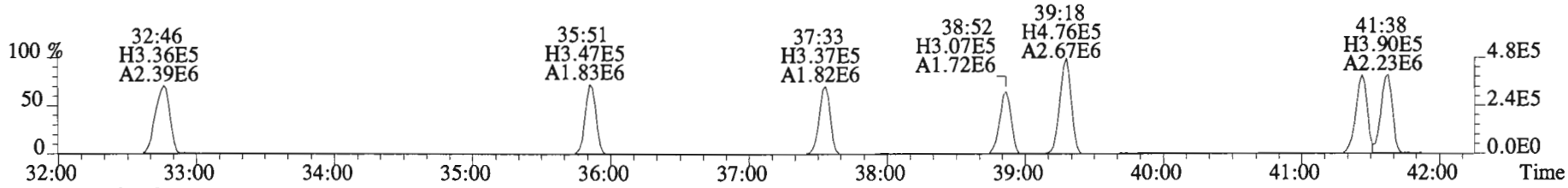
327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2460.0,0.00%,F,F)



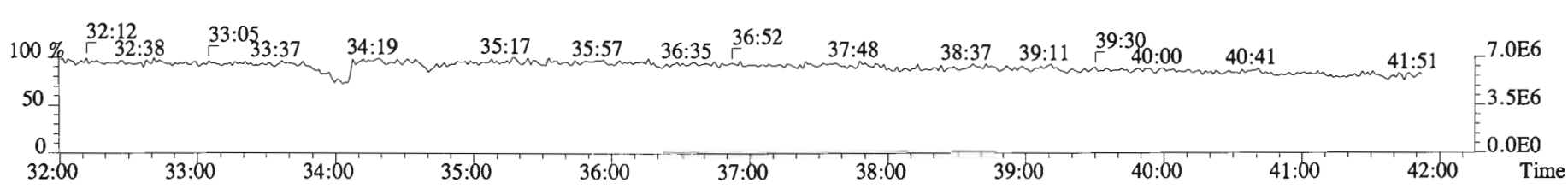
337.9207 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1944.0,0.00%,F,F)



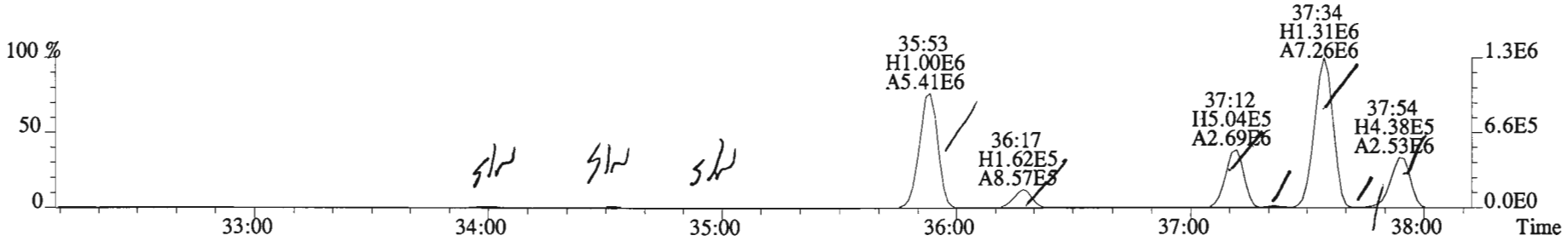
339.9177 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1920.0,0.00%,F,F)



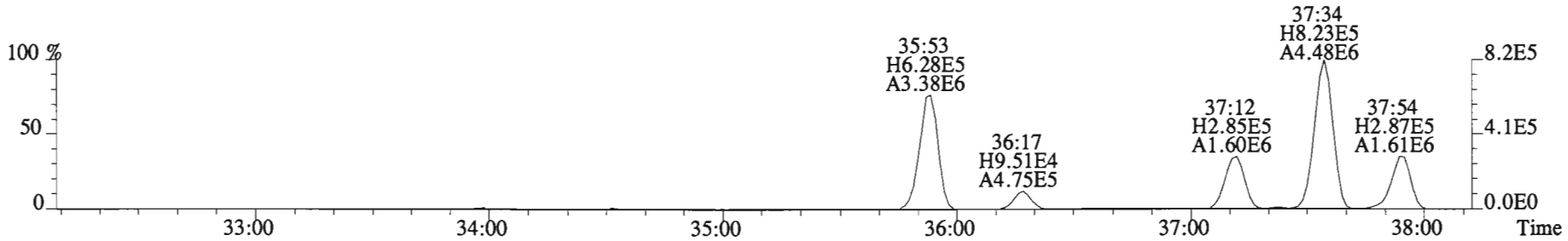
330.9792 S:9 F:3



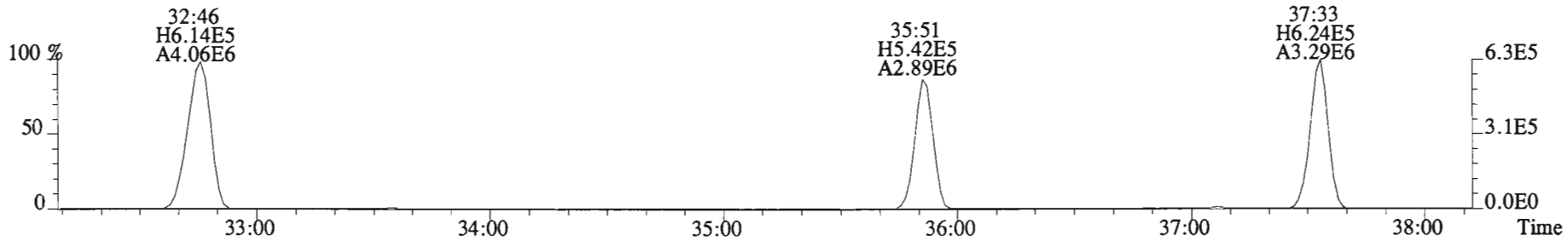
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3272.0,0.00%,F,F)



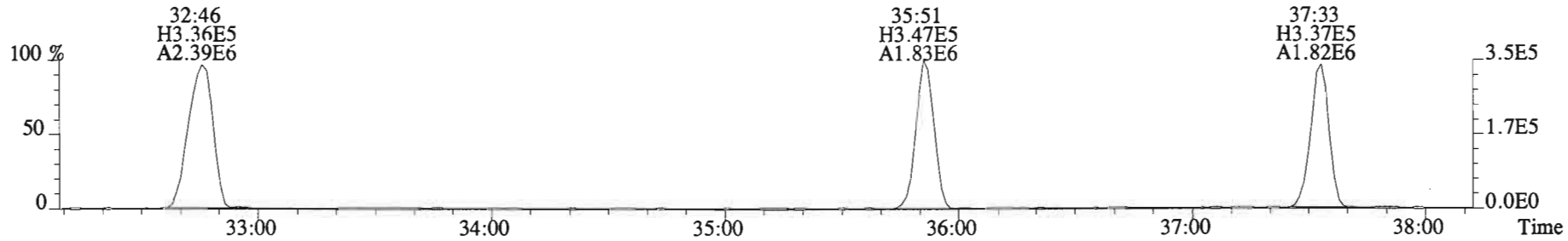
327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2460.0,0.00%,F,F)



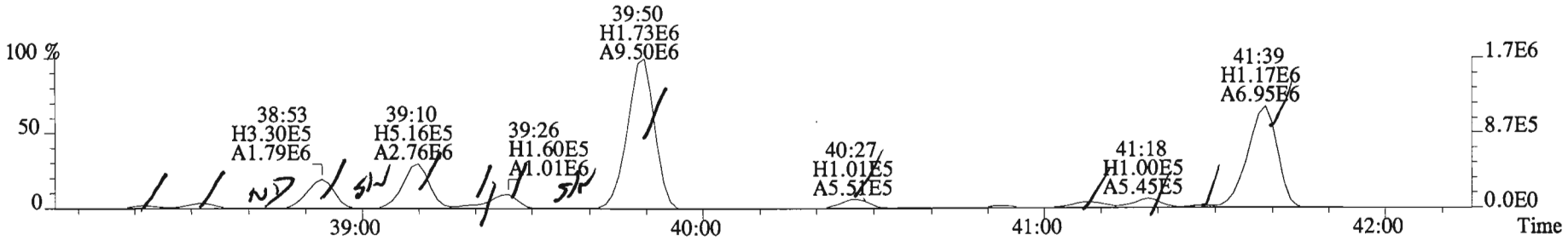
337.9207 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1944.0,0.00%,F,F)



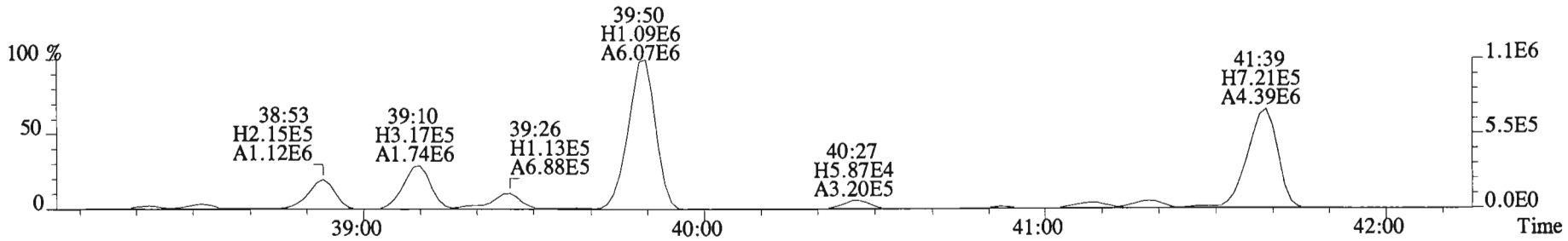
339.9177 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1920.0,0.00%,F,F)



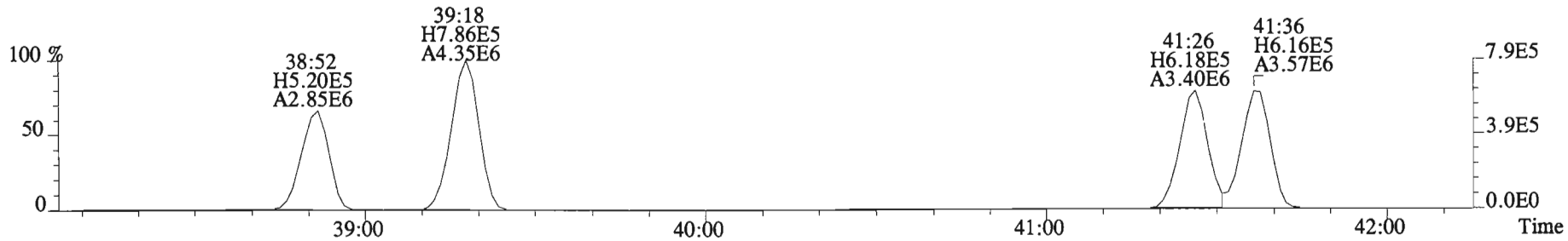
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3272.0,0.00%,F,F)



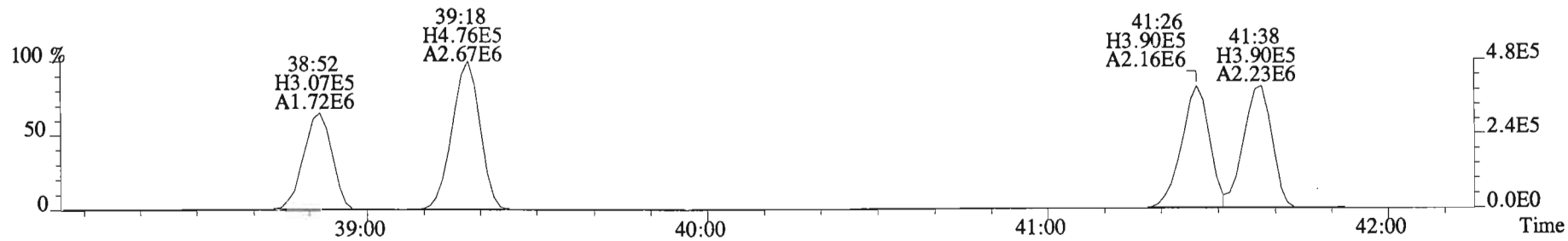
327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2460.0,0.00%,F,F)



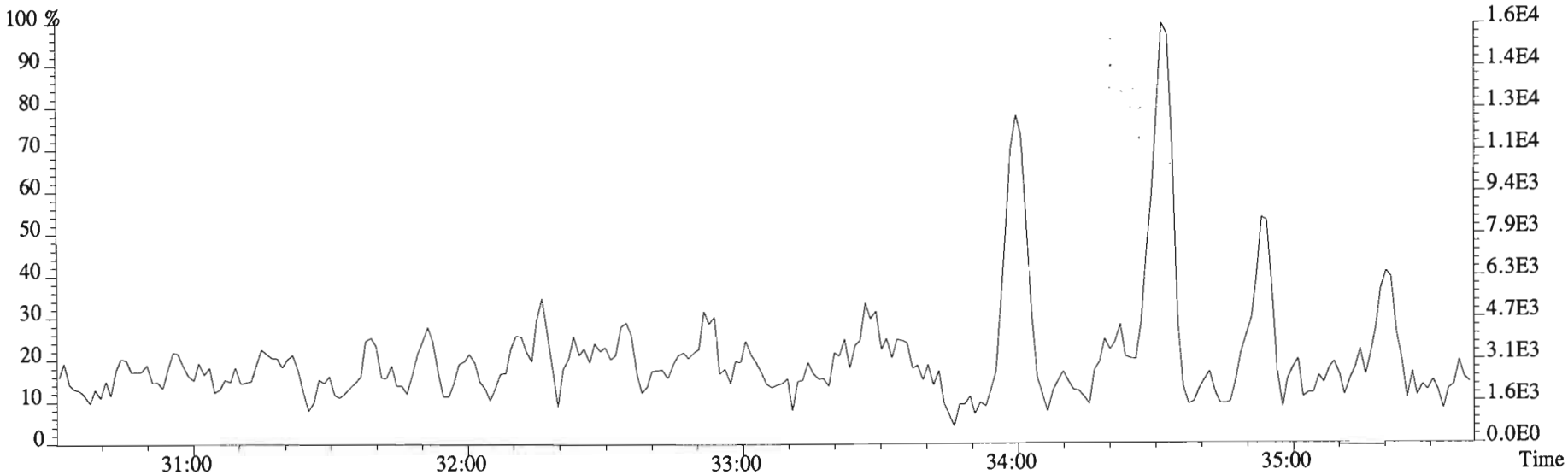
337.9207 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1944.0,0.00%,F,F)



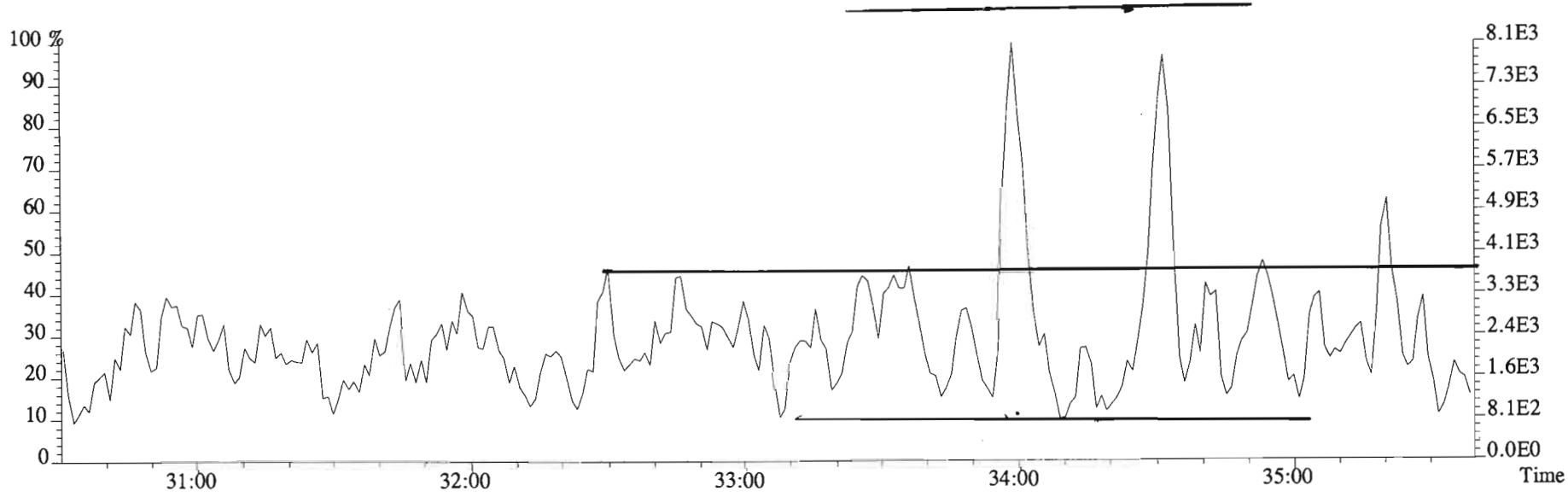
339.9177 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1920.0,0.00%,F,F)



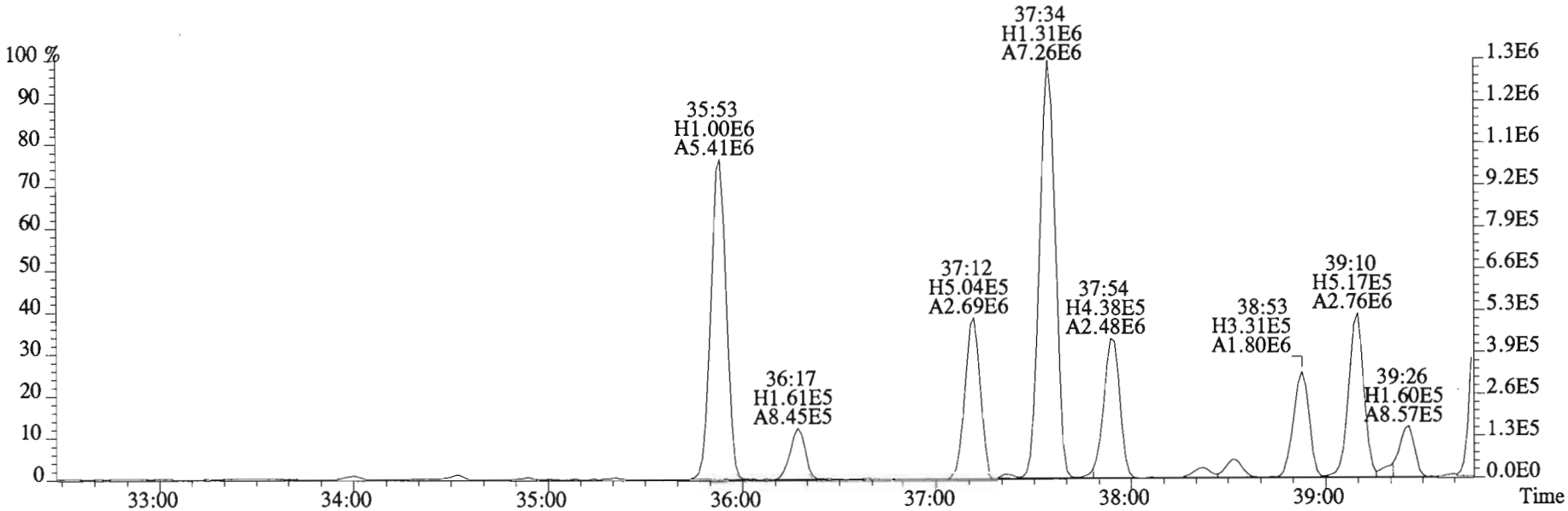
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3272.0,0.00%,F,F)



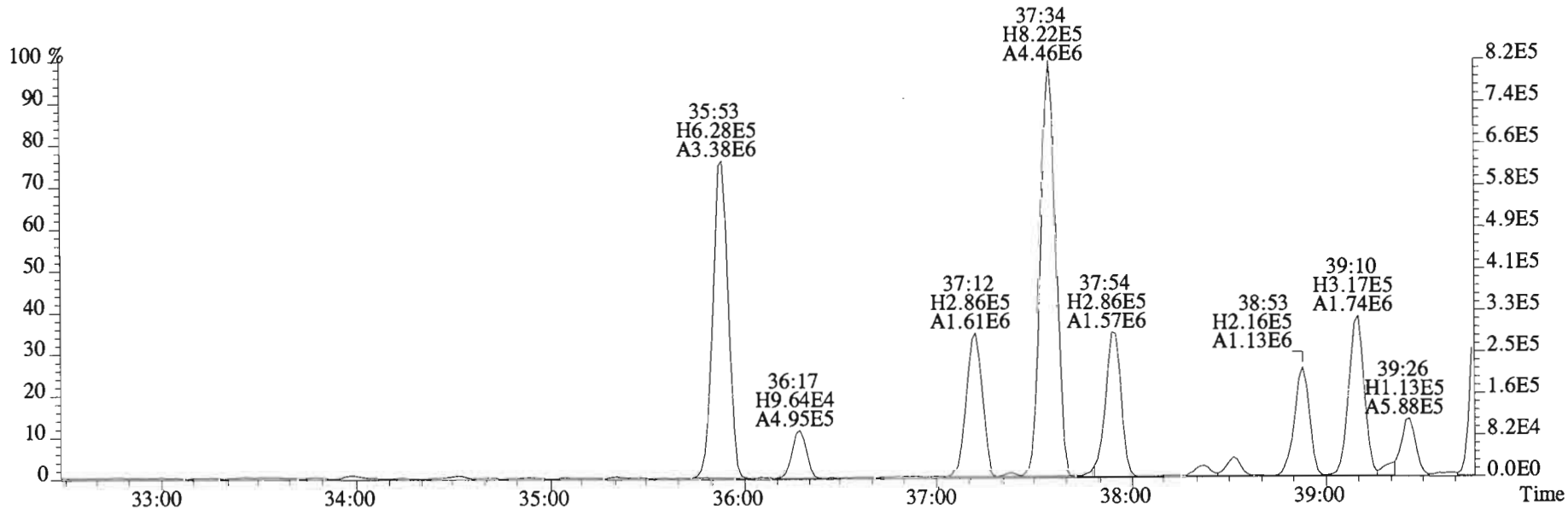
327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2460.0,0.00%,F,F)

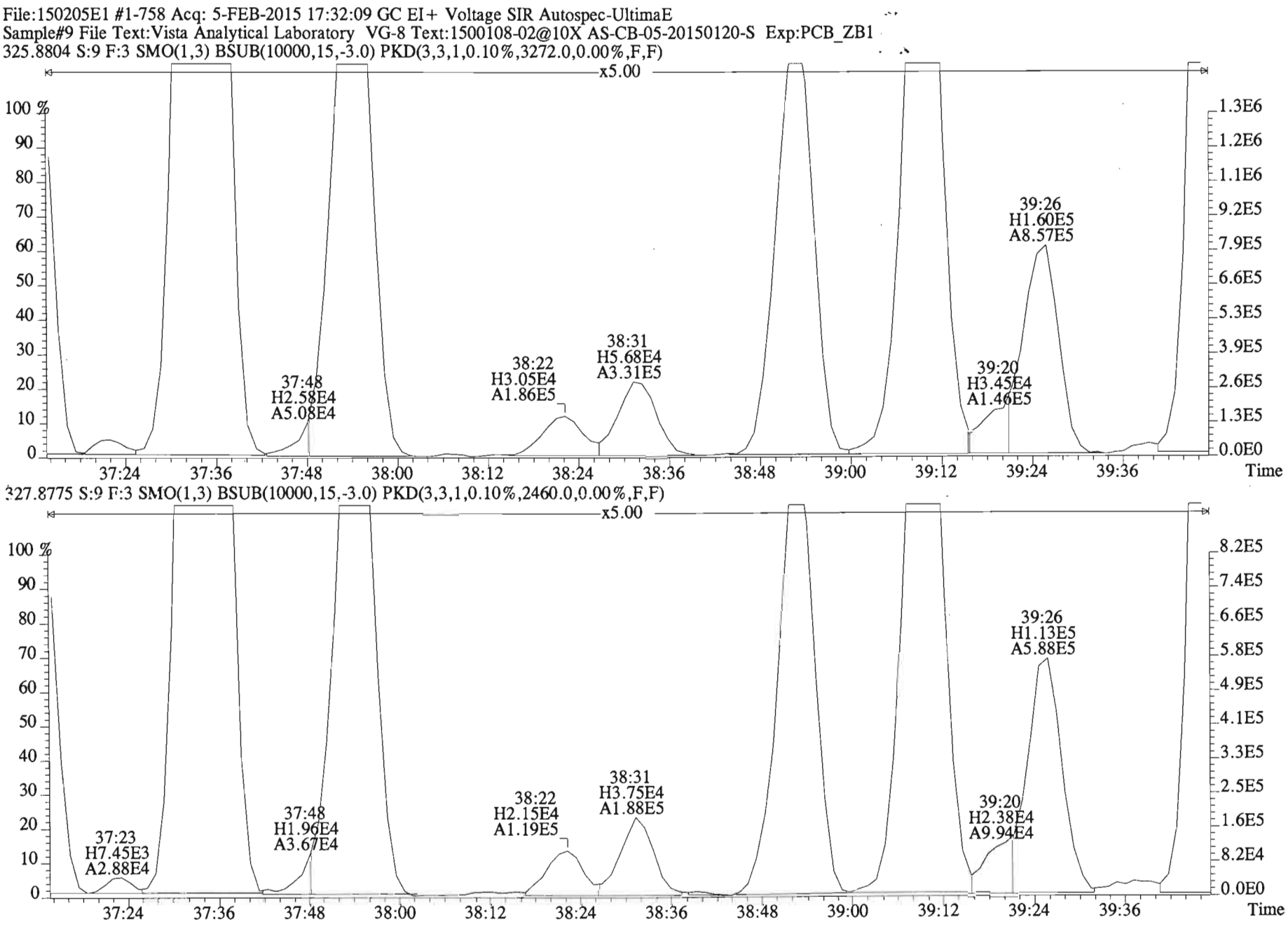


File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3272.0,0.00%,F,F)

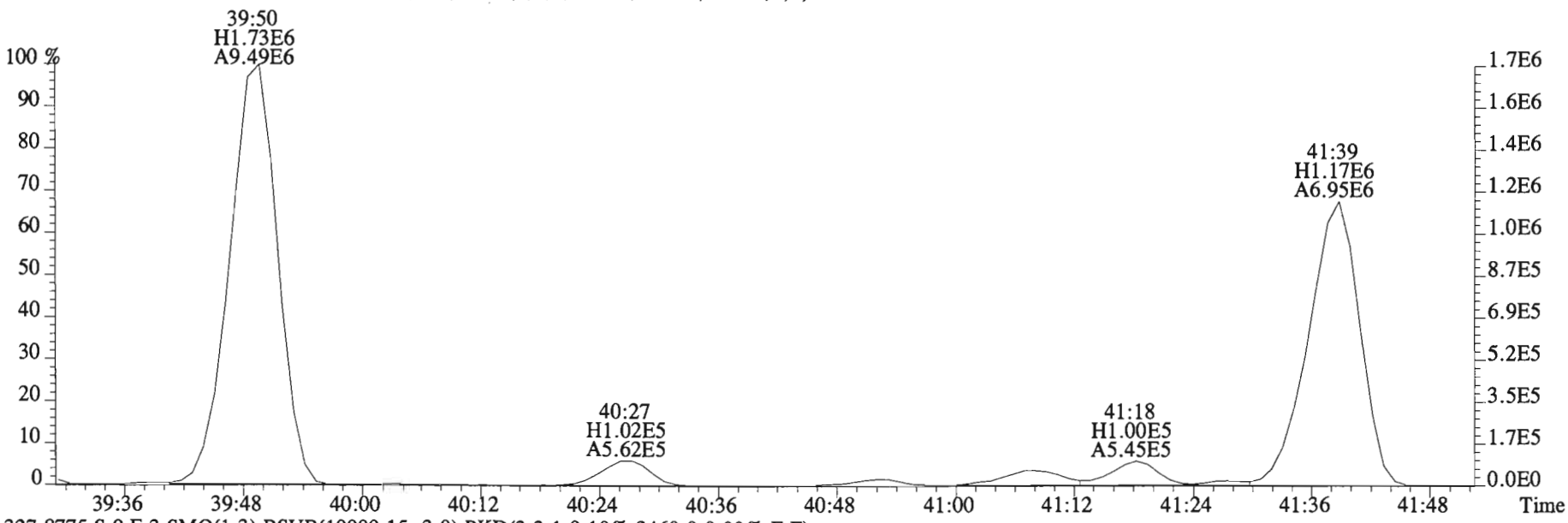


327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2450.0,0.00%,F,F)

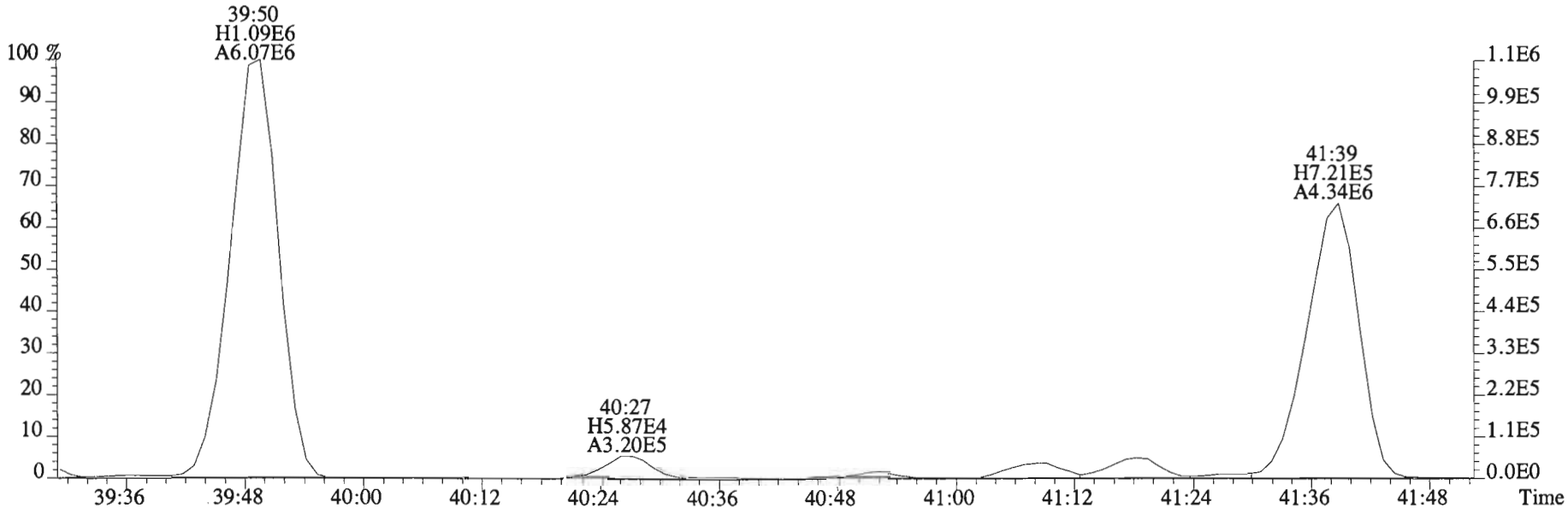



File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3272.0,0.00%,F,F)
x5.00
100 %
90
80
70
60
50
40
30
20
10
0
1.3E6
1.2E6
1.1E6
9.2E5
7.9E5
6.6E5
5.3E5
3.9E5
2.6E5
1.3E5
0.0E0
37:48
H2.58E4
A5.08E4
38:22
H3.05E4
A1.86E5
38:31
H5.68E4
A3.31E5
39:20
H3.45E4
A1.46E5
39:26
H1.60E5
A8.57E5
37:24
37:36
37:48
38:00
38:12
38:24
38:36
38:48
39:00
39:12
39:24
39:36
Time
327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2460.0,0.00%,F,F)
x5.00
100 %
90
80
70
60
50
40
30
20
10
0
8.2E5
7.4E5
6.6E5
5.8E5
4.9E5
4.1E5
3.3E5
2.5E5
1.6E5
8.2E4
0.0E0
37:23
H7.45E3
A2.88E4
37:48
H1.96E4
A3.67E4
38:22
H2.15E4
A1.19E5
38:31
H3.75E4
A1.88E5
39:20
H2.38E4
A9.94E4
39:26
H1.13E5
A5.88E5
37:24
37:36
37:48
38:00
38:12
38:24
38:36
38:48
39:00
39:12
39:24
39:36
Time

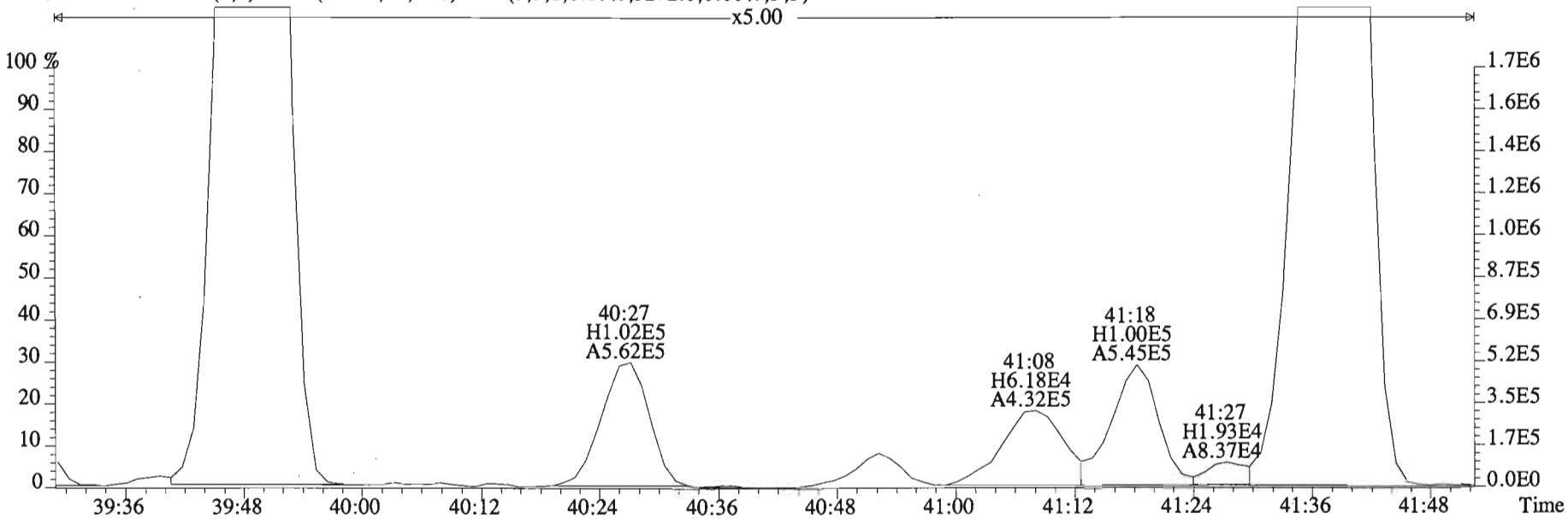
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3272.0,0.00%,F,F)



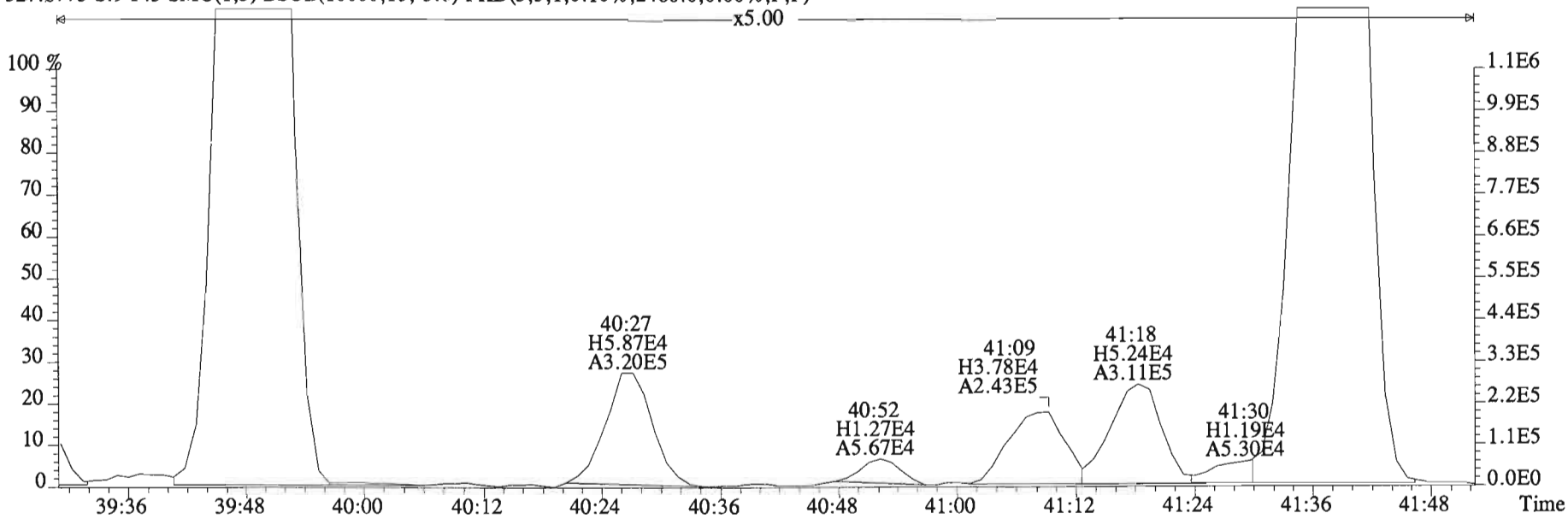
327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2460.0,0.00%,F,F)



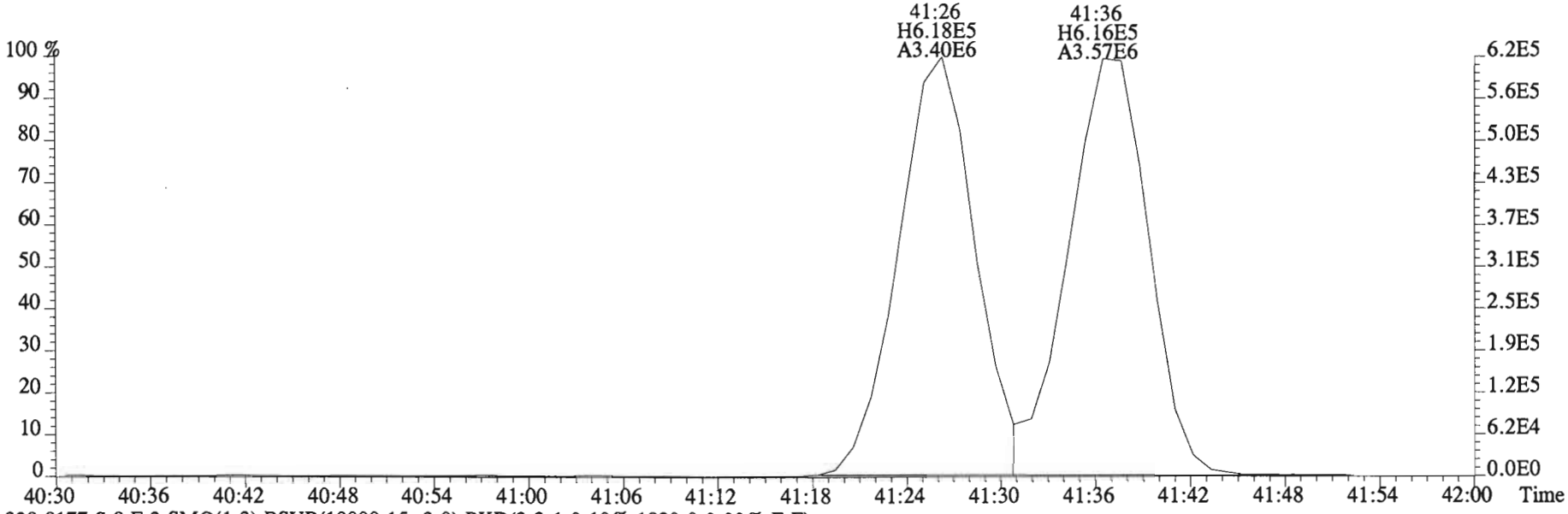
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
325.8804 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3272.0,0.00%,F,F)



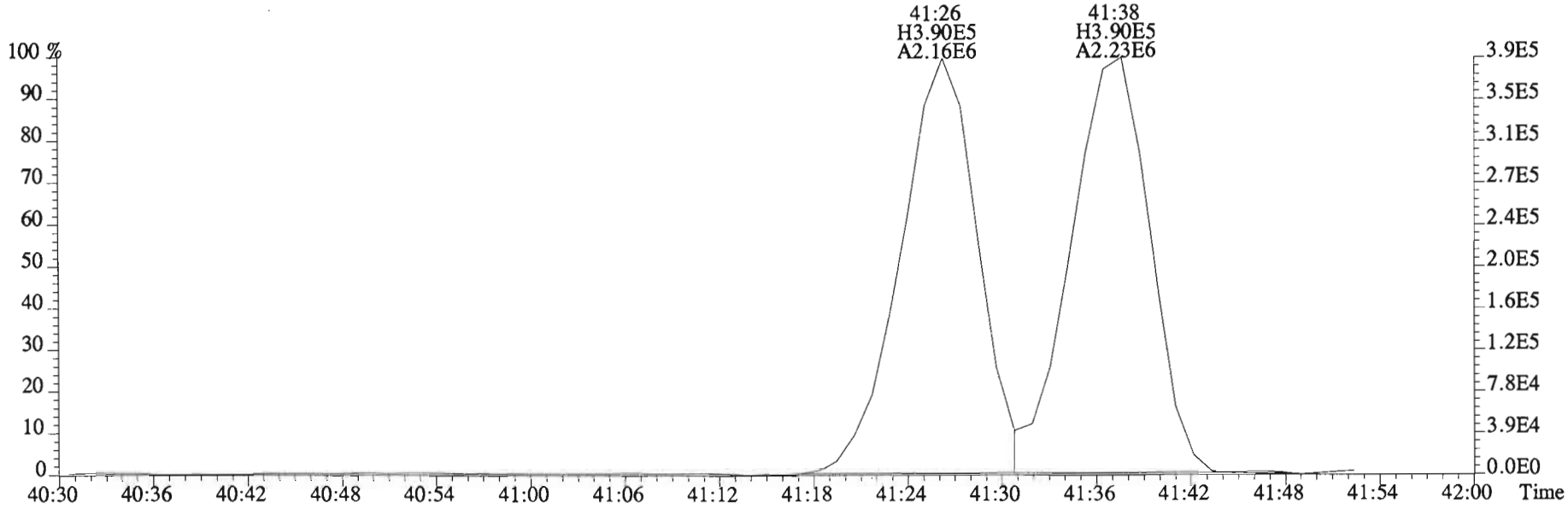
327.8775 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2460.0,0.00%,F,F)



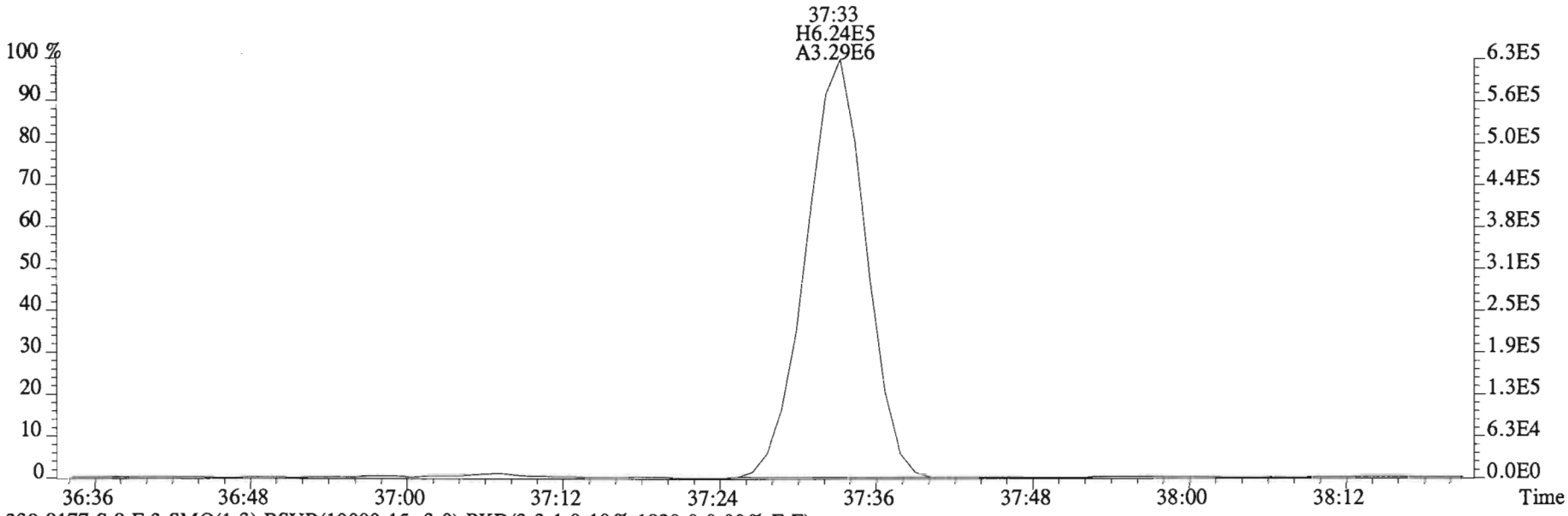
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
337.9207 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1944.0,0.00%,F,F)



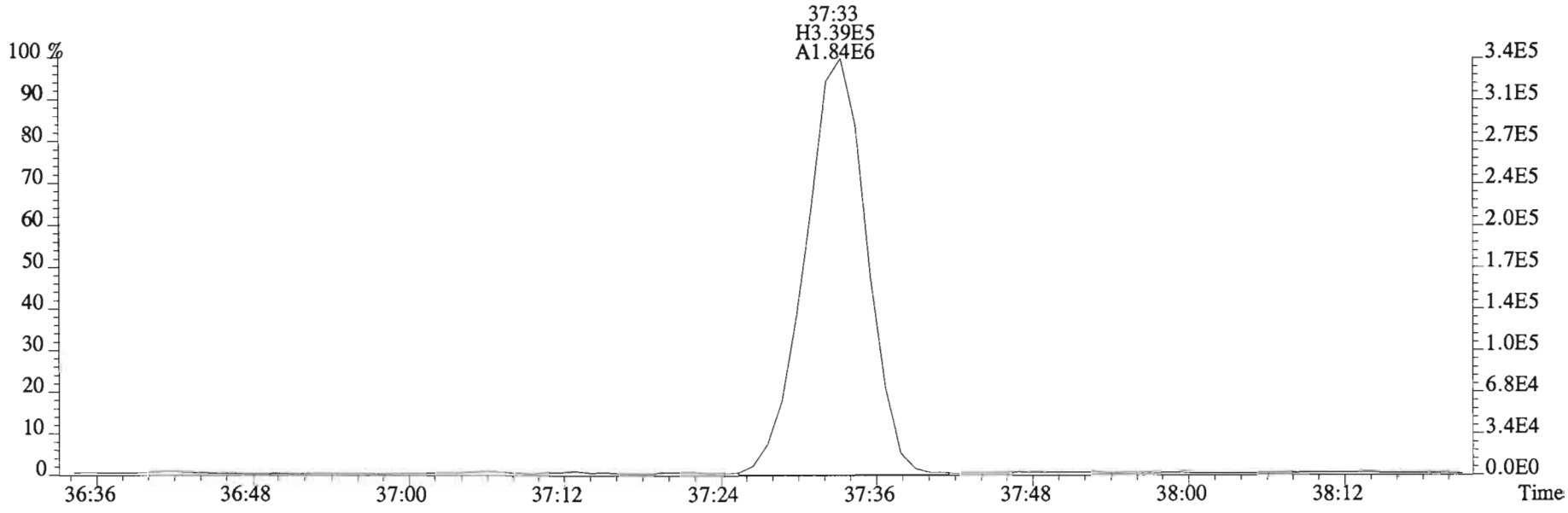
339.9177 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1920.0,0.00%,F,F)



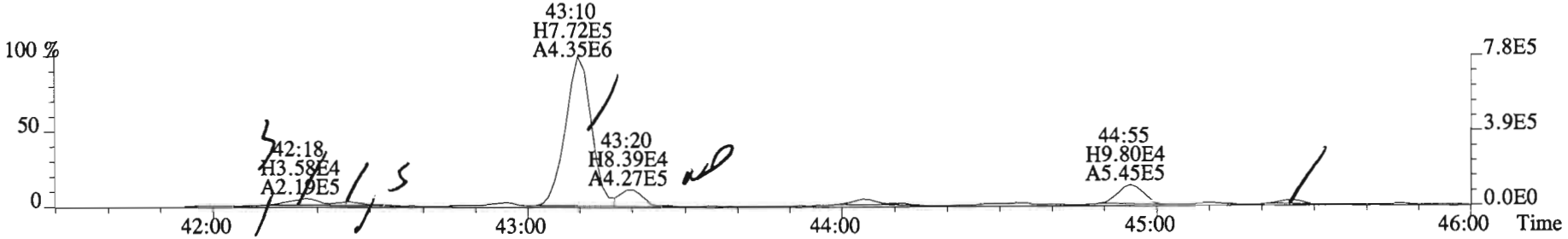
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
337.9207 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1944.0,0.00%,F,F)



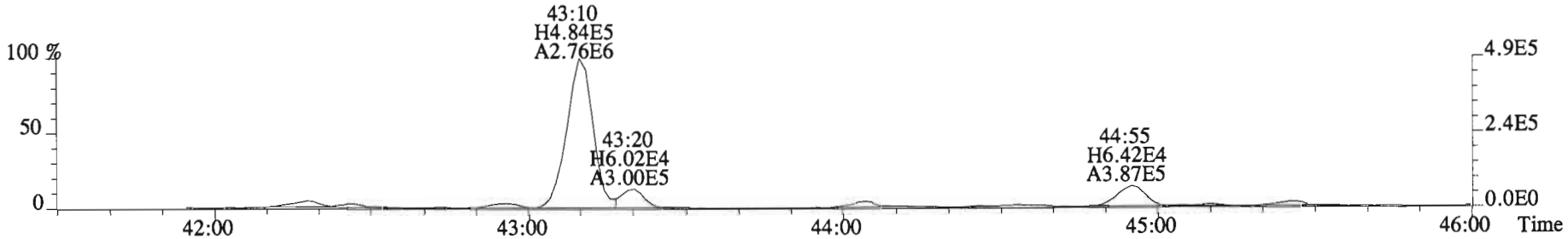
339.9177 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1920.0,0.00%,F,F)



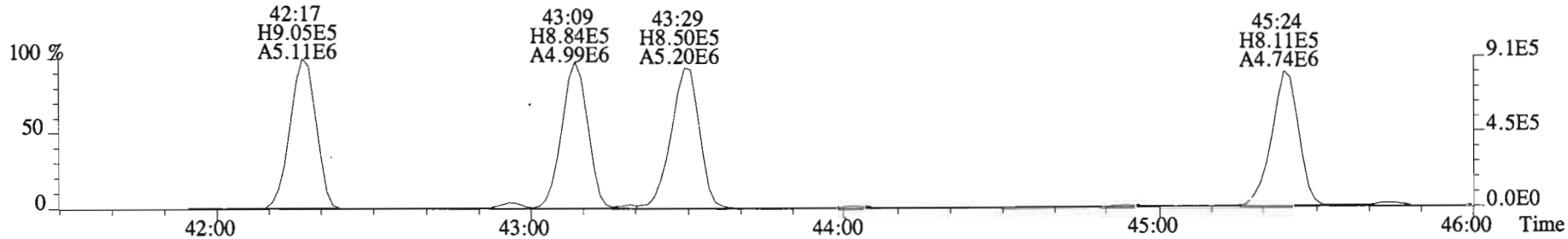
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
325.8804 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6724.0,0.00%,F,F)



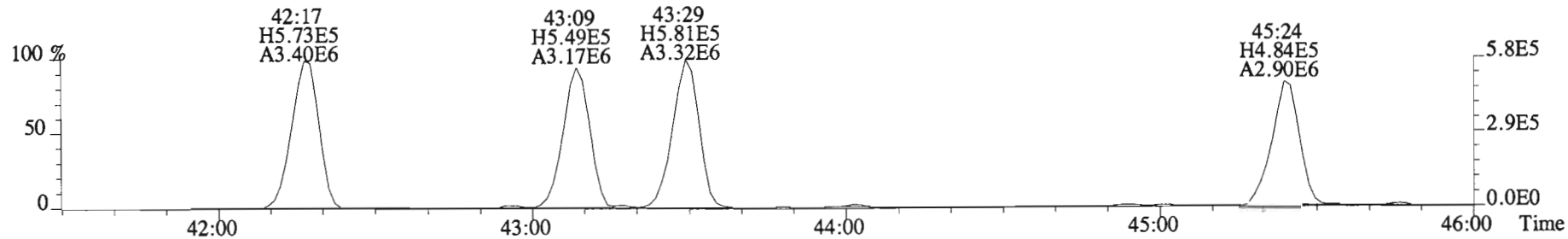
327.8775 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3680.0,0.00%,F,F)



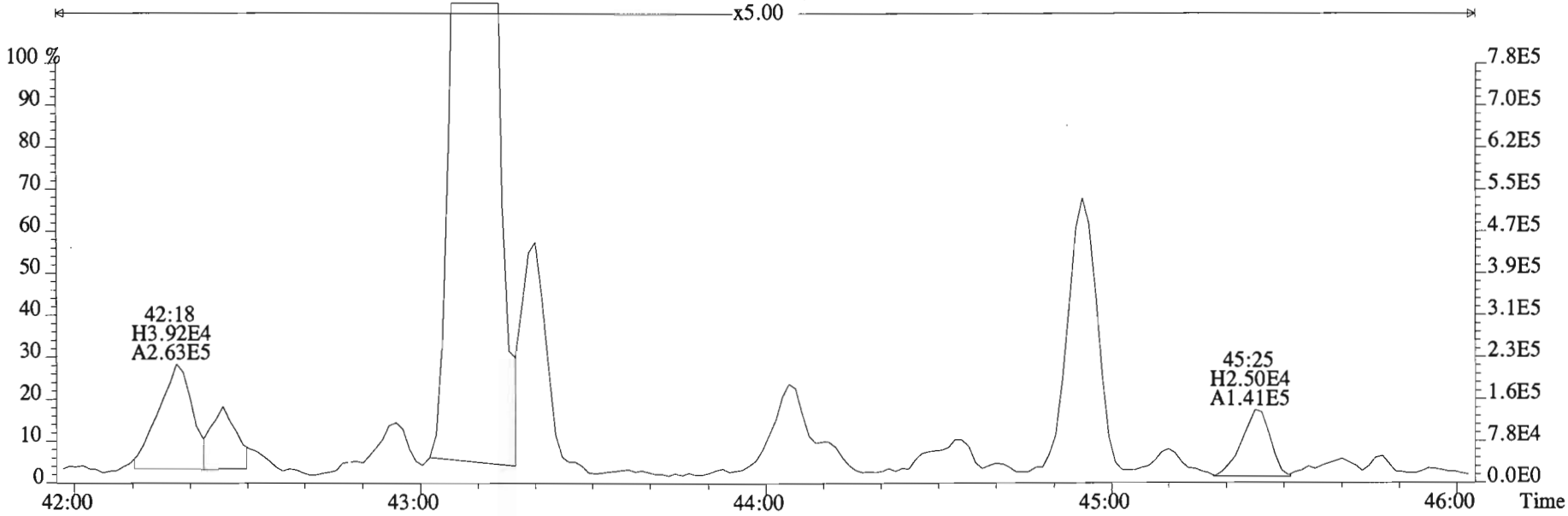
337.9207 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3556.0,0.00%,F,F)



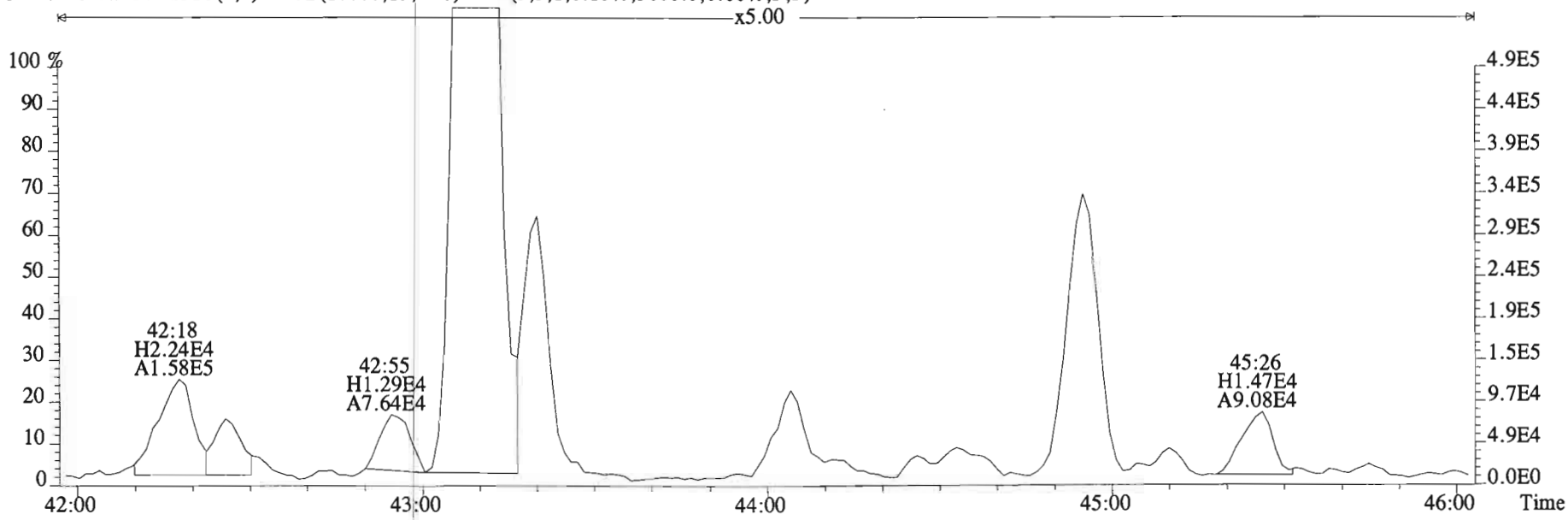
339.9177 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2596.0,0.00%,F,F)



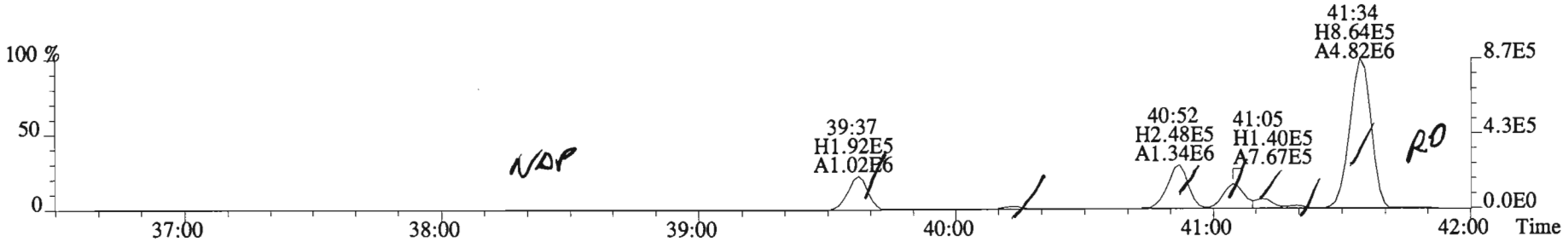
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
325.8804 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6724.0,0.00%,F,F)



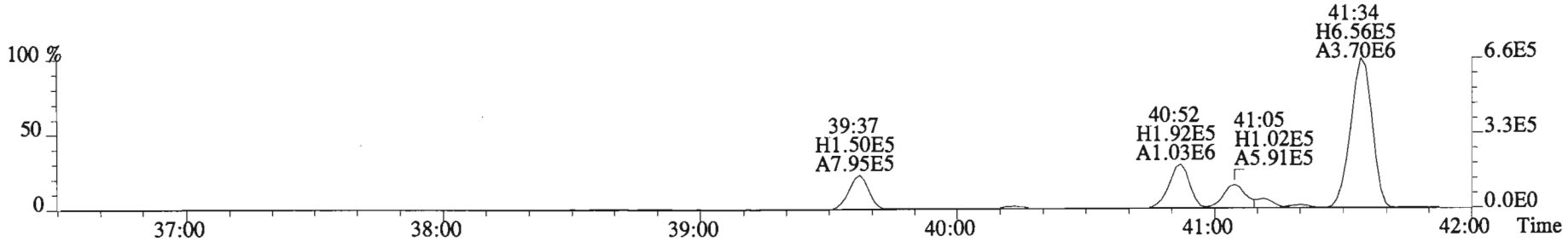
327.8775 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3680.0,0.00%,F,F)



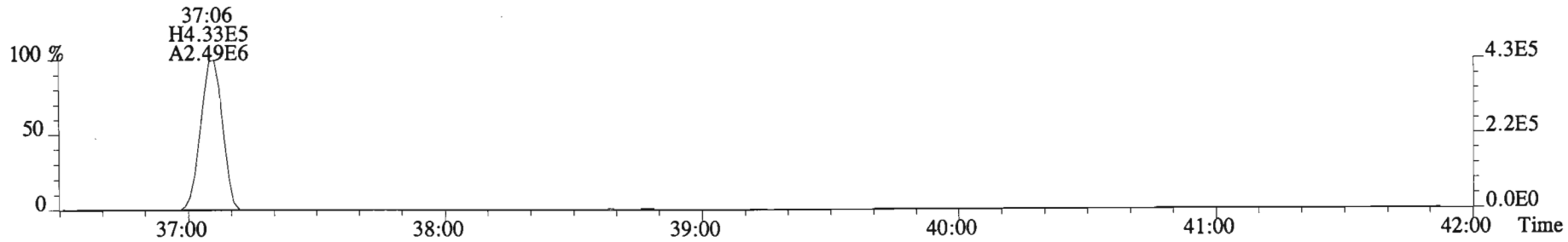
File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
359.8415 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1588.0,0.00%,F,F)



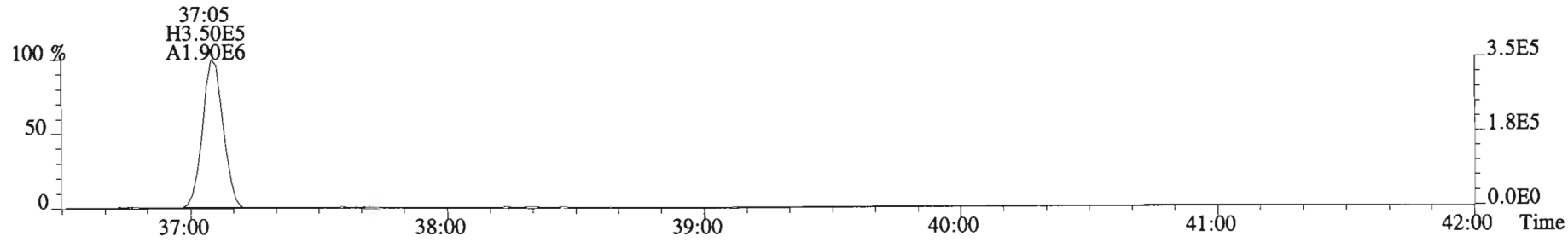
361.8385 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1560.0,0.00%,F,F)



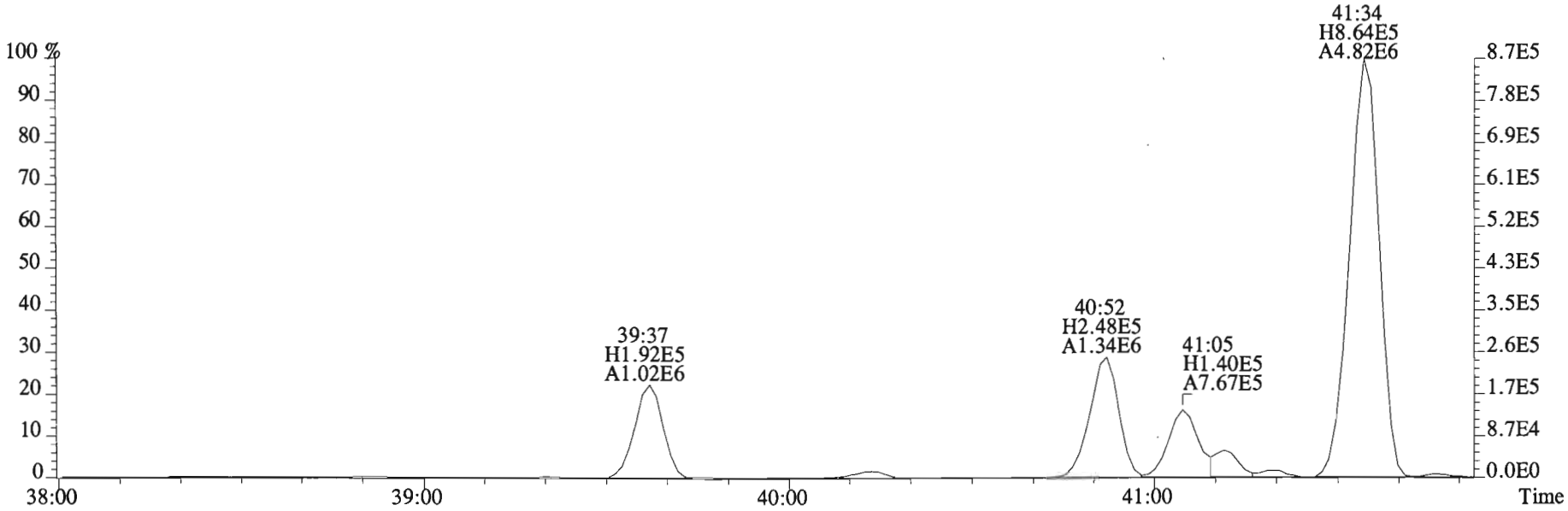
371.8817 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1728.0,0.00%,F,F)



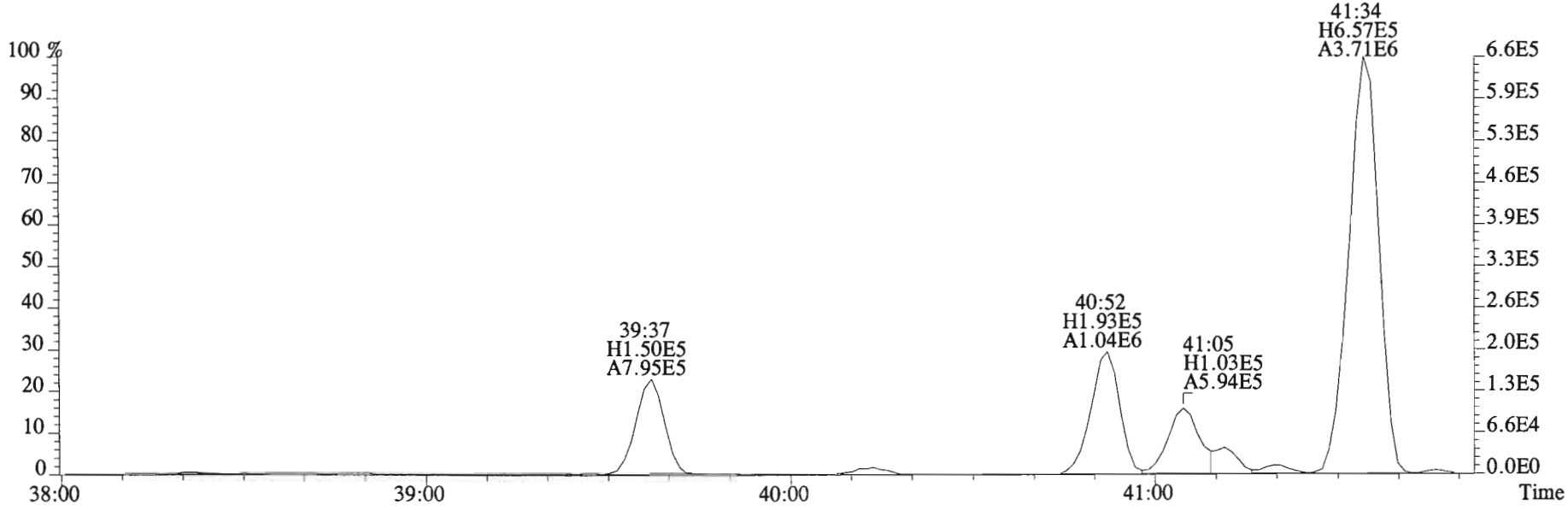
373.8788 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1728.0,0.00%,F,F)

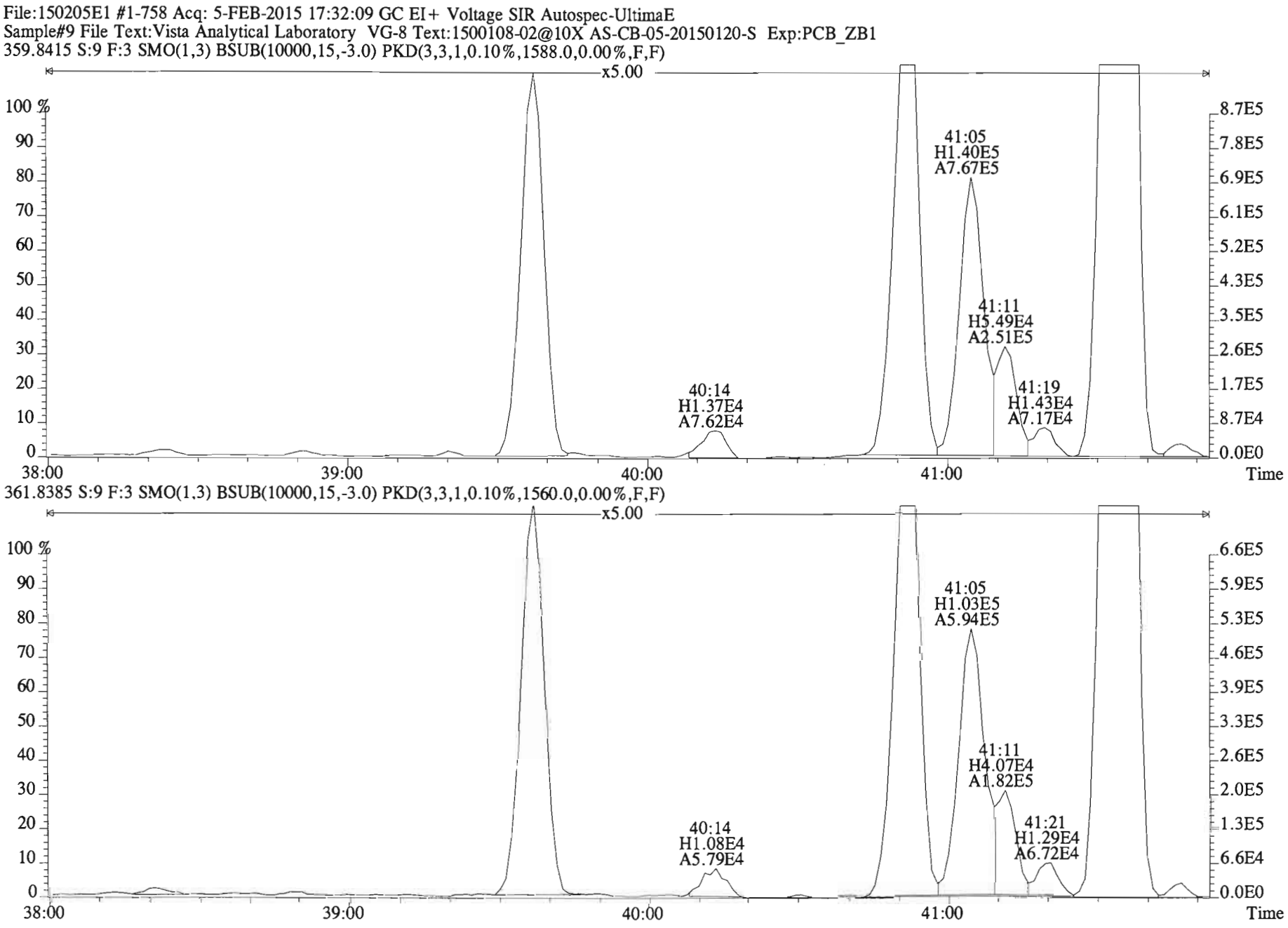


File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
359.8415 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1588.0,0.00%,F,F)

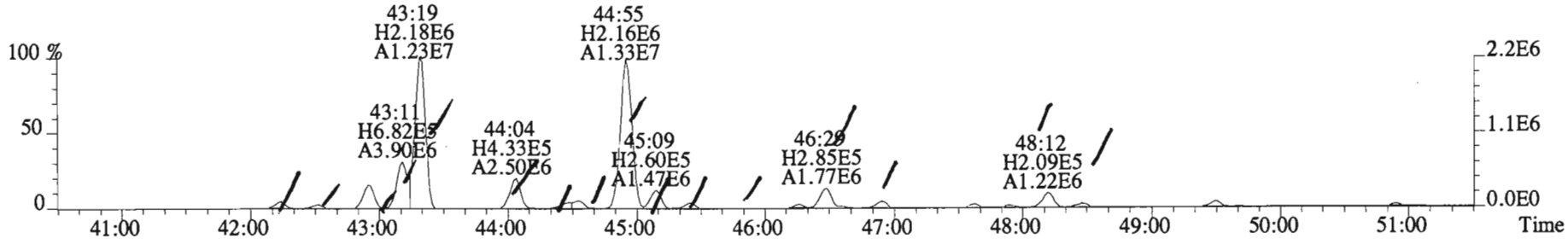


261.8385 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1560.0,0.00%,F,F)

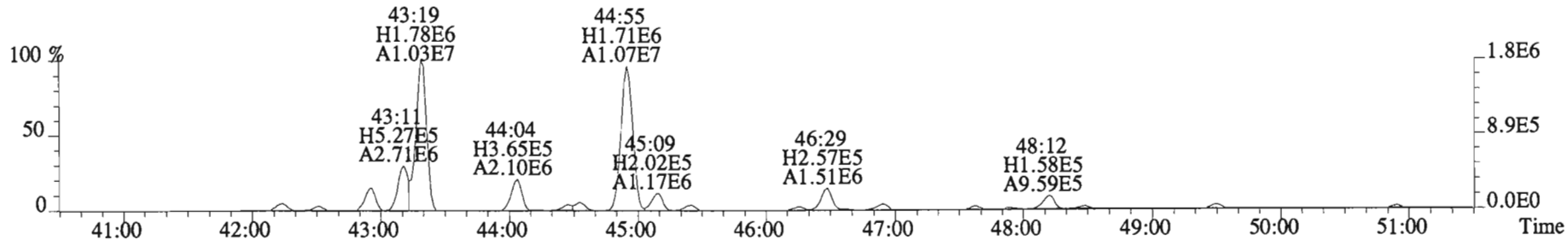



File:150205E1 #1-758 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
359.8415 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1588.0,0.00%,F,F)
x5.00
100 %
90
80
70
60
50
40
30
20
10
0
8.7E5
7.8E5
6.9E5
6.1E5
5.2E5
4.3E5
3.5E5
2.6E5
1.7E5
8.7E4
0.0E0
41:05
H1.40E5
A7.67E5
41:11
H5.49E4
A2.51E5
41:19
H1.43E4
A7.17E4
40:14
H1.37E4
A7.62E4
38:00
39:00
40:00
41:00
Time
361.8385 S:9 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1560.0,0.00%,F,F)
x5.00
100 %
90
80
70
60
50
40
30
20
10
0
6.6E5
5.9E5
5.3E5
4.6E5
3.9E5
3.3E5
2.6E5
2.0E5
1.3E5
6.6E4
0.0E0
41:05
H1.03E5
A5.94E5
41:11
H4.07E4
A1.82E5
41:21
H1.29E4
A6.72E4
40:14
H1.08E4
A5.79E4
38:00
39:00
40:00
41:00
Time

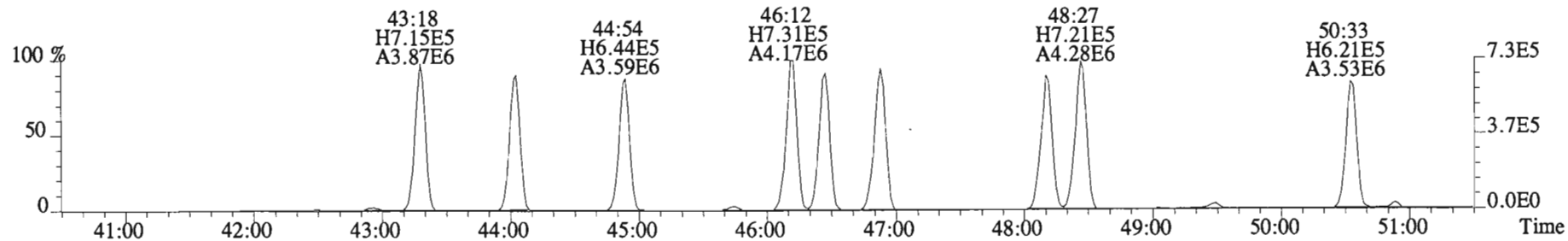
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
359.8415 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2800.0,0.00%,F,F)



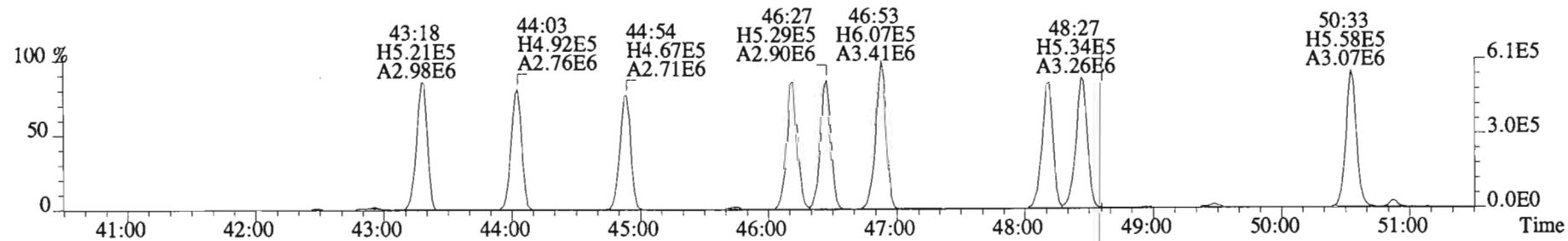
361.8385 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3236.0,0.00%,F,F)



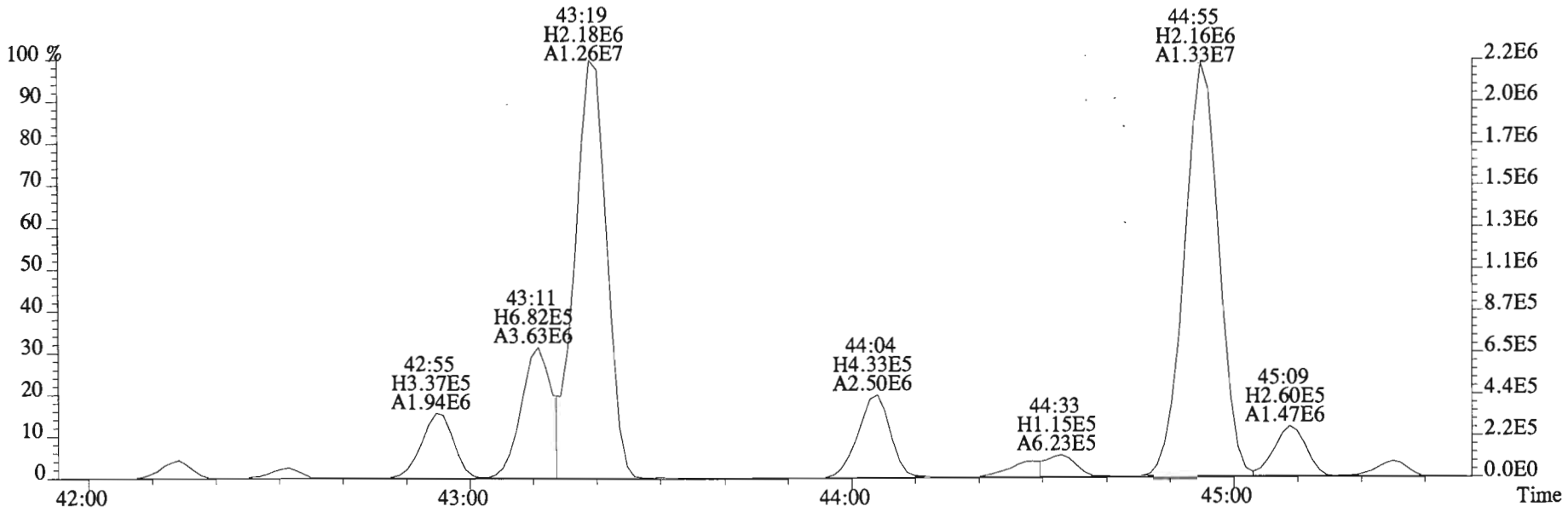
371.8817 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2328.0,0.00%,F,F)



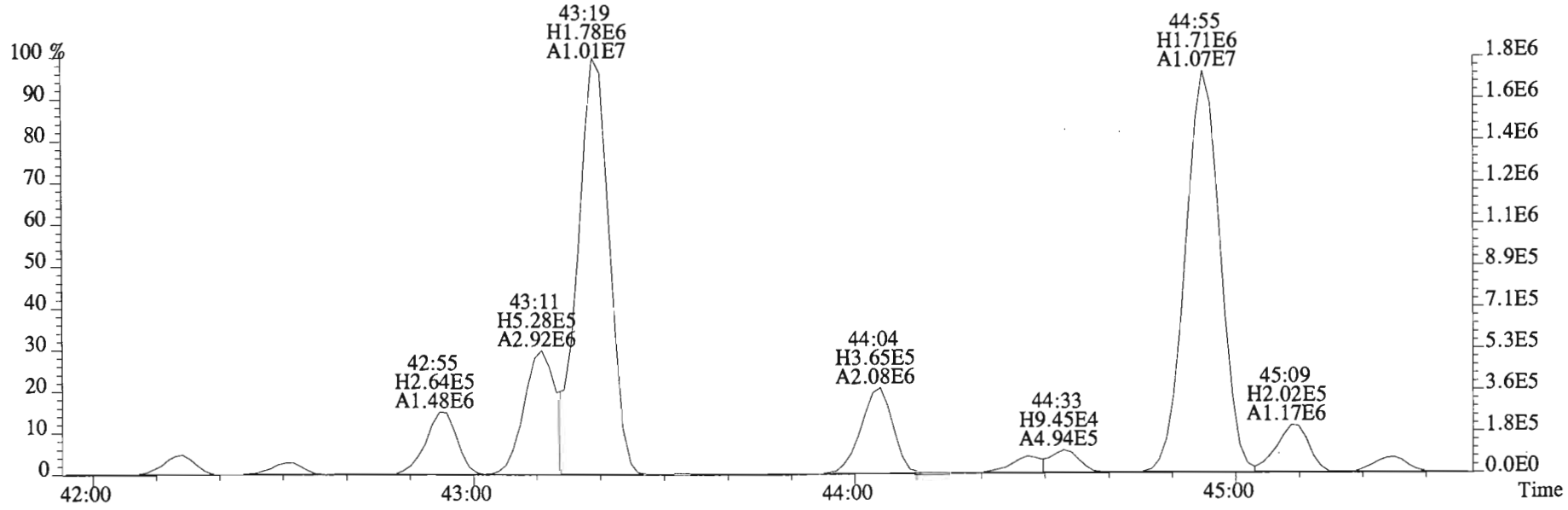
373.8788 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2412.0,0.00%,F,F)



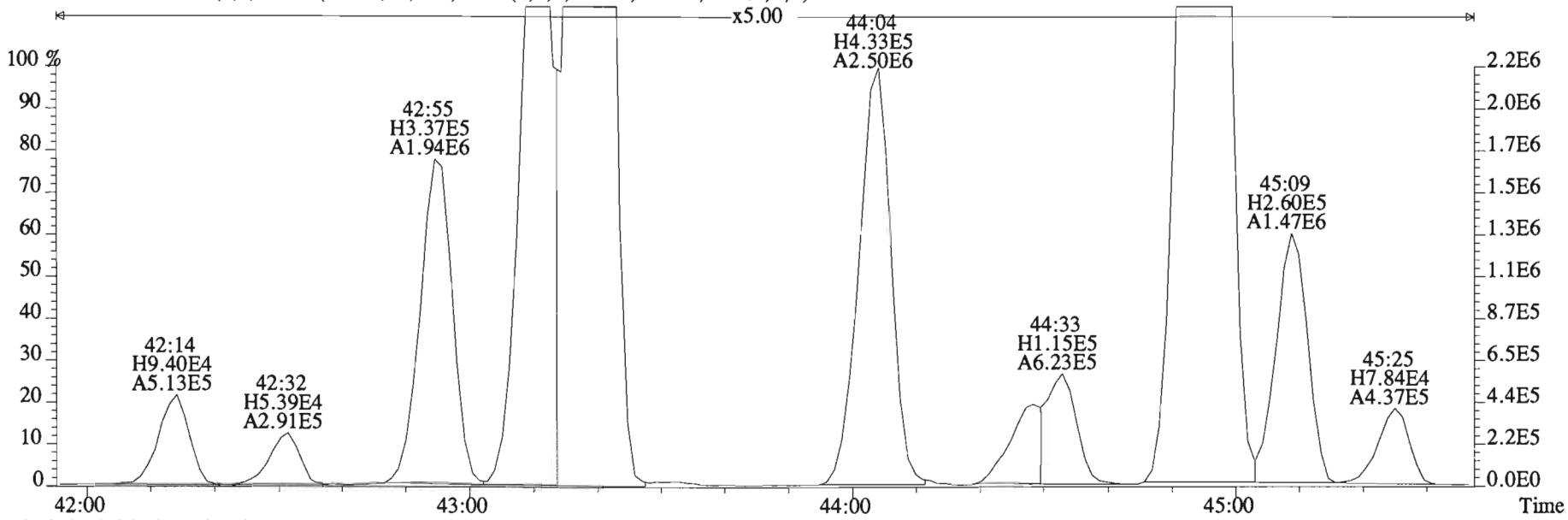
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
359.8415 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2800.0,0.00%,F,F)



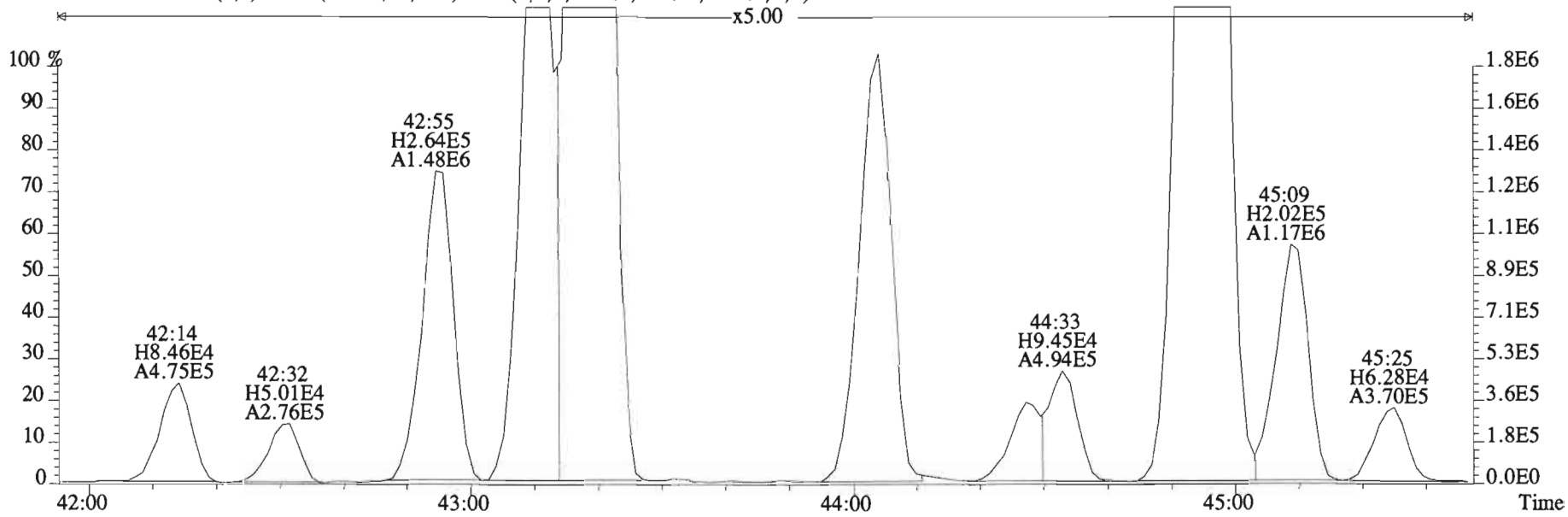
361.8385 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3236.0,0.00%,F,F)



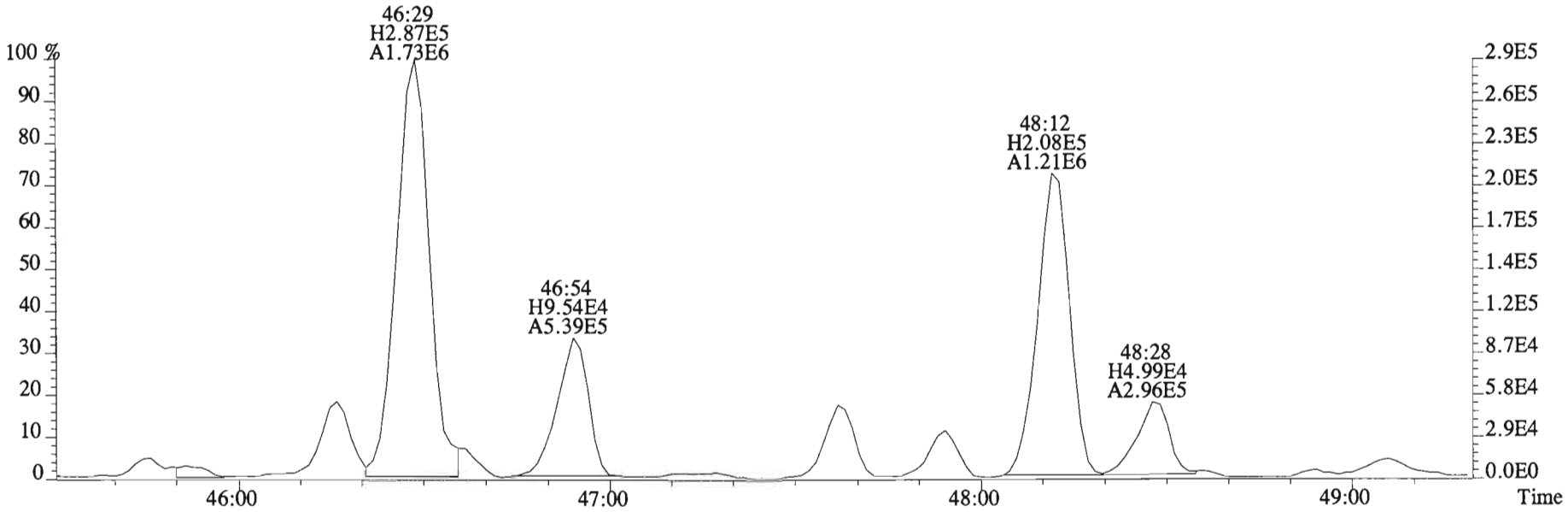
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
359.8415 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2800.0,0.00%,F,F)



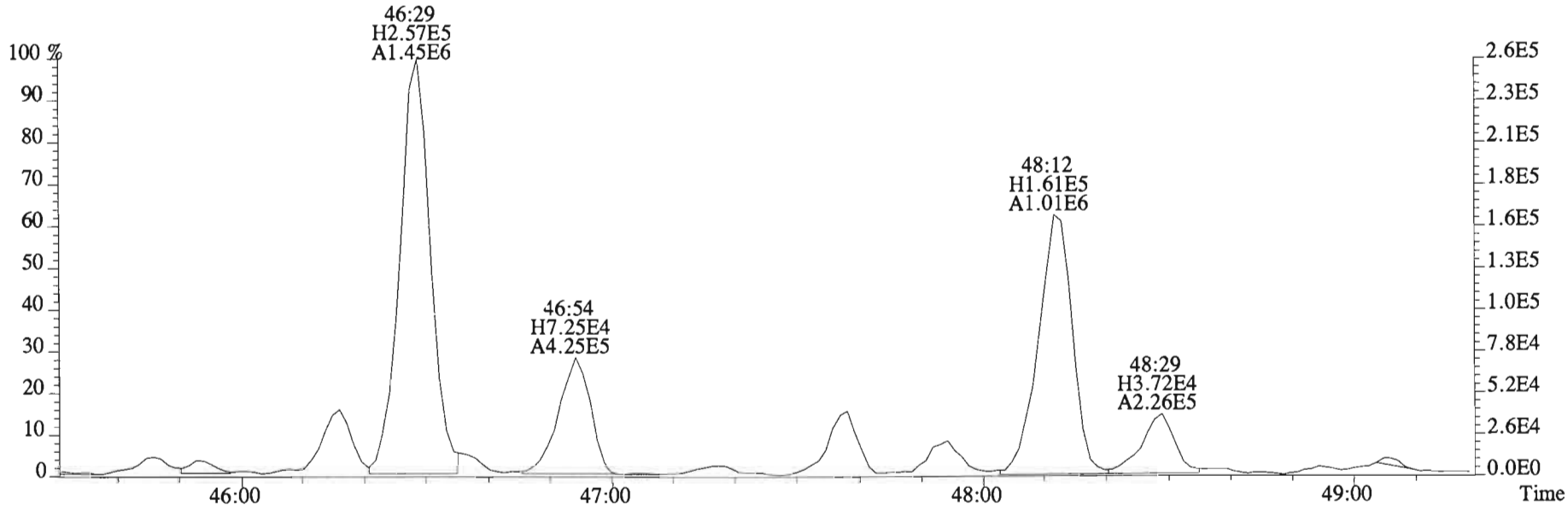
361.8385 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3236.0,0.00%,F,F)



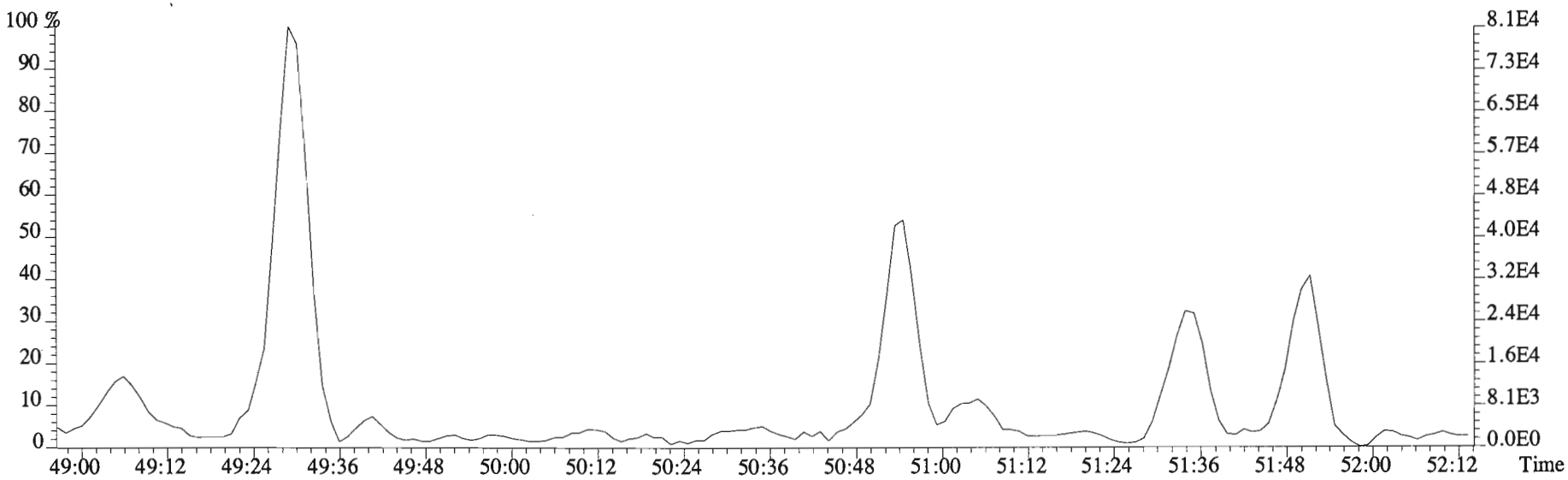
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
359.8415 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2800.0,0.00%,F,F)



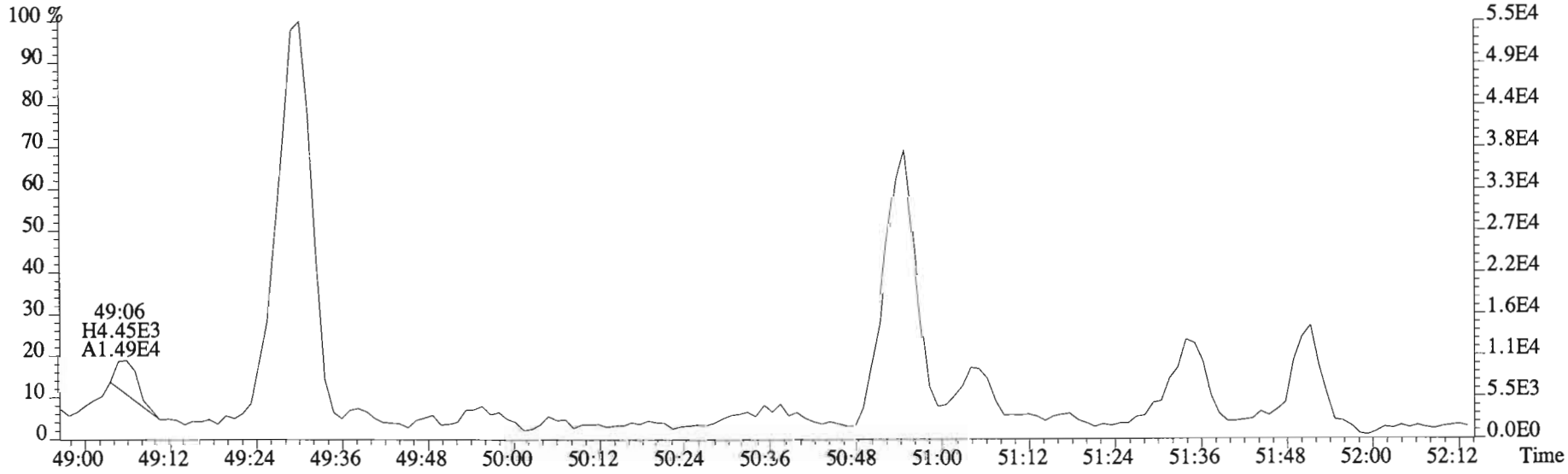
361.8385 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3236.0,0.00%,F,F)



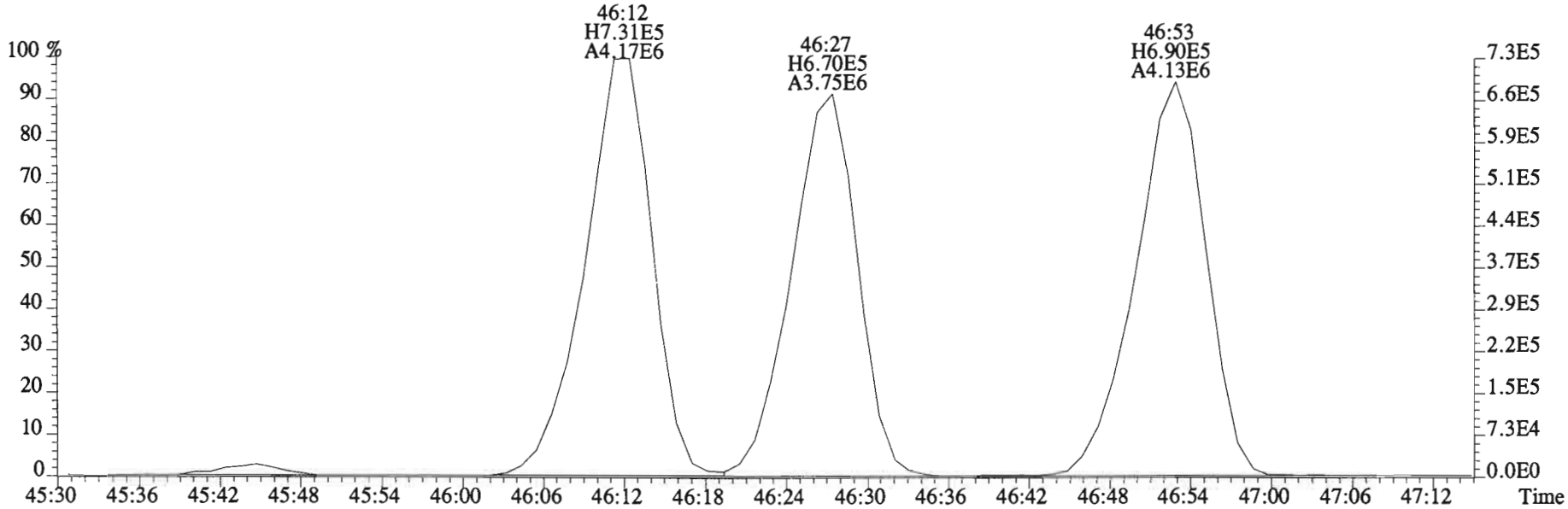
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
359.8415 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2800.0,0.00%,F,F)



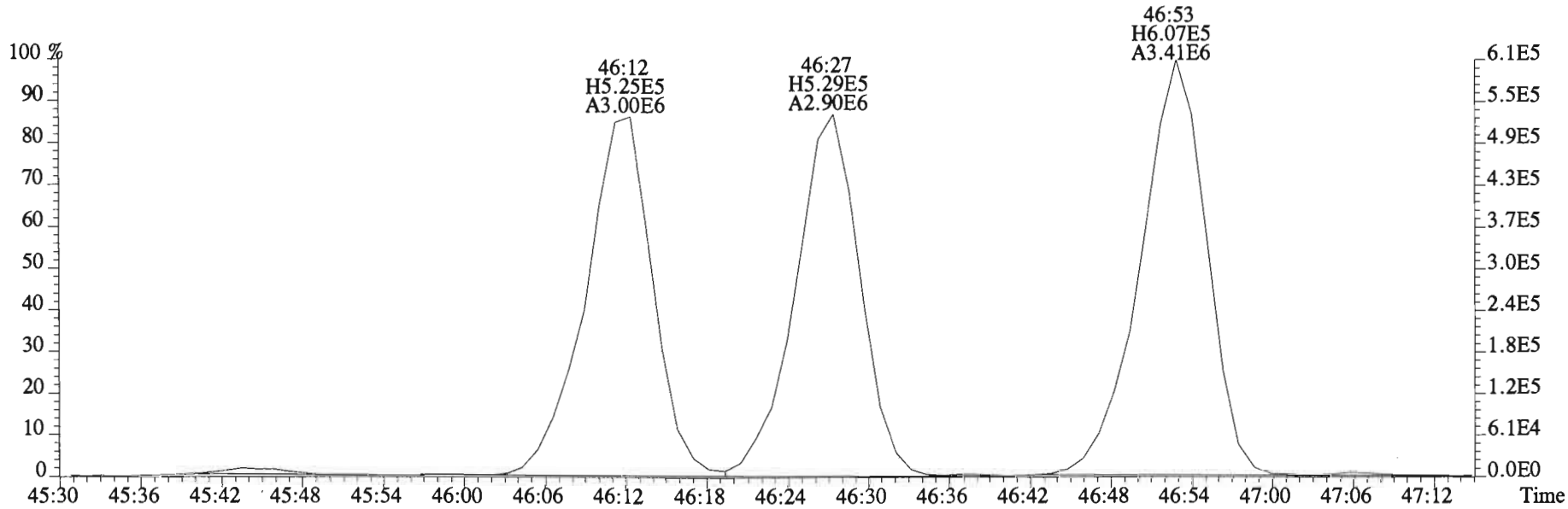
361.8385 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3235.0,0.00%,F,F)



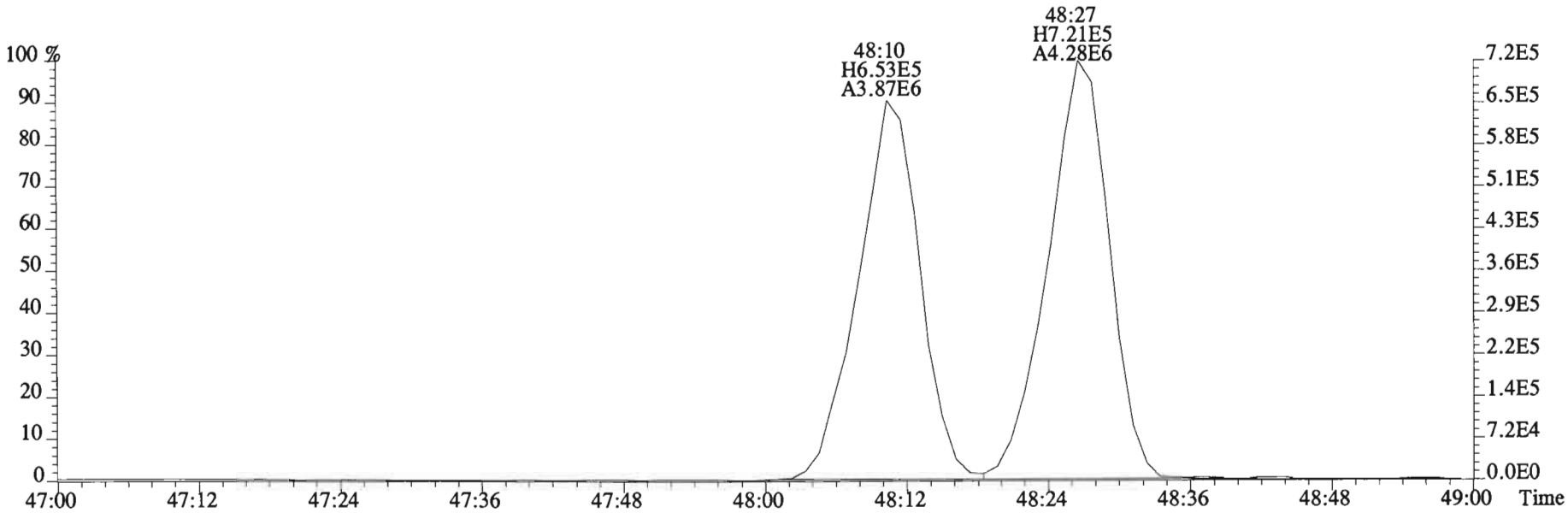
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
371.8817 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2328.0,0.00%,F,F)



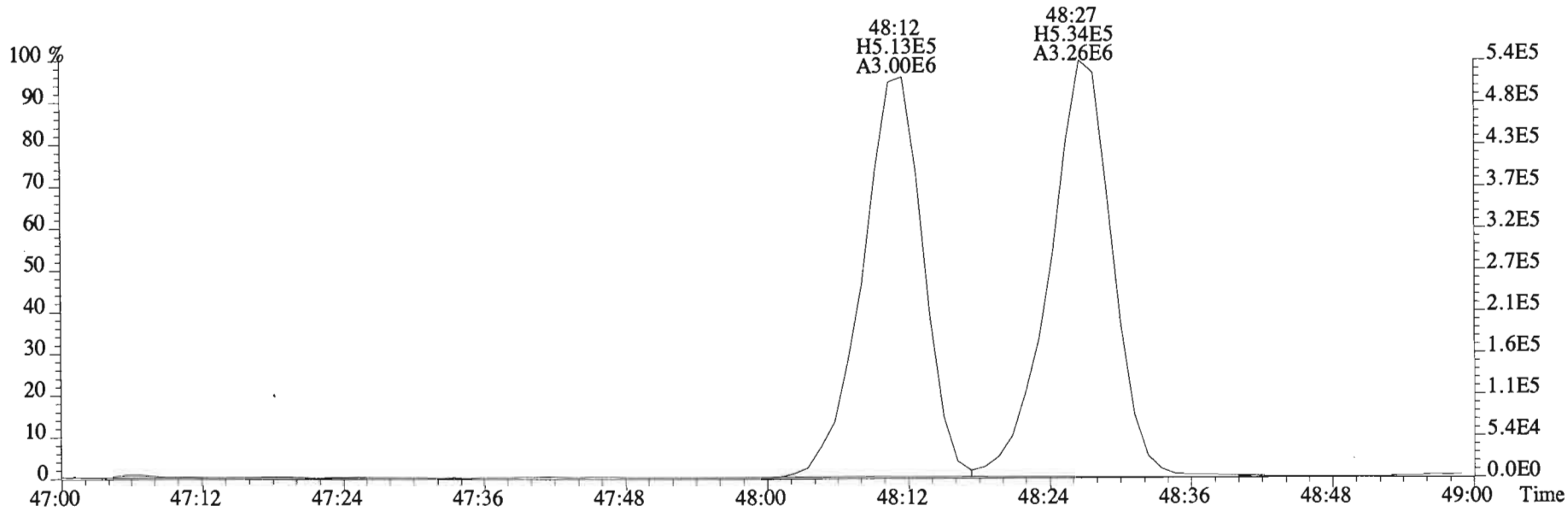
373.8788 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2412.0,0.00%,F,F)



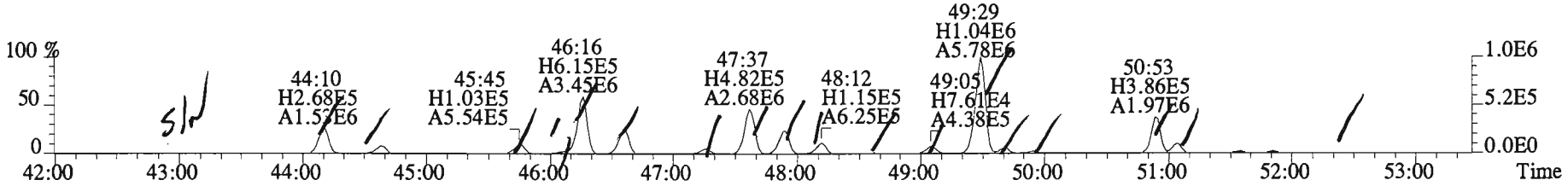
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
371.8817 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2328.0,0.00%,F,F)



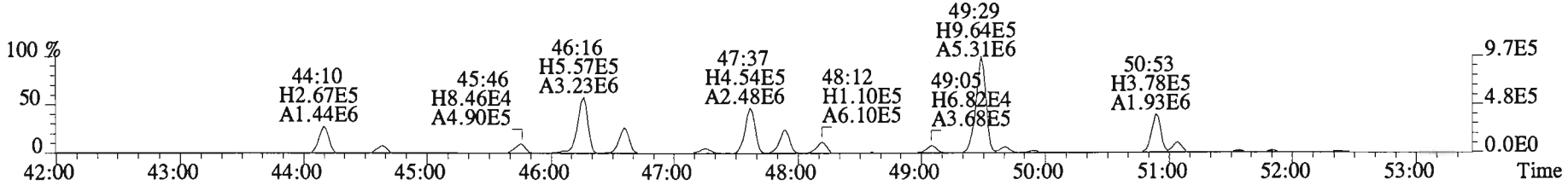
373.8788 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2412.0,0.00%,F,F)



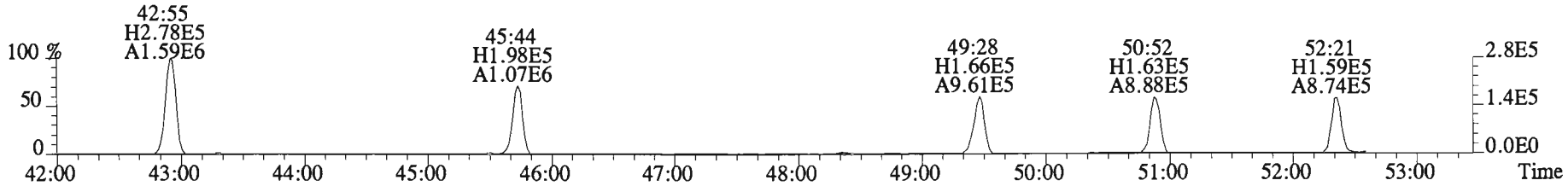
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
393.8025 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2076.0,0.00%,F,F)



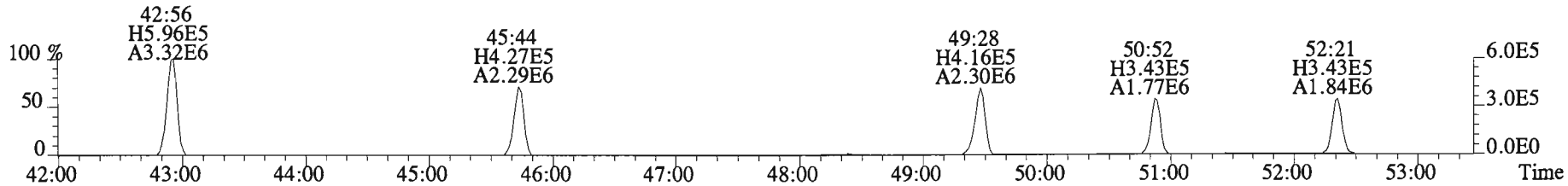
395.7995 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2072.0,0.00%,F,F)



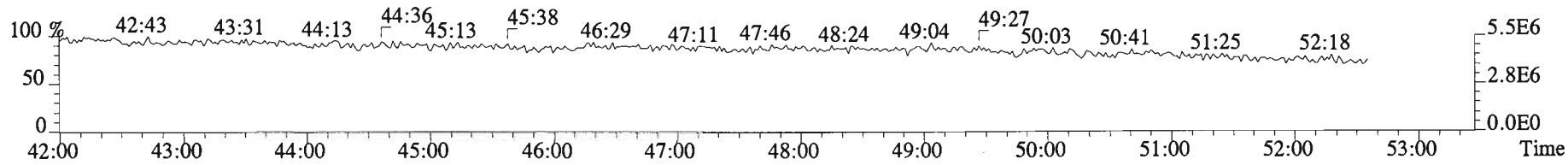
403.8457 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1752.0,0.00%,F,F)



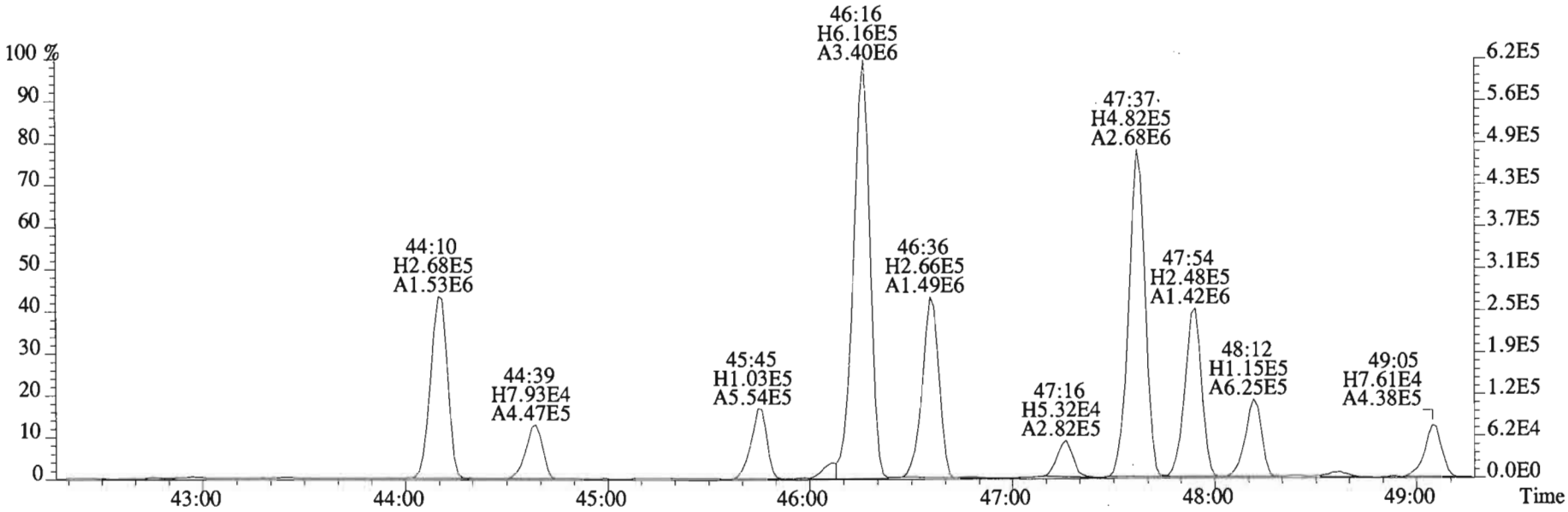
405.8428 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1636.0,0.00%,F,F)



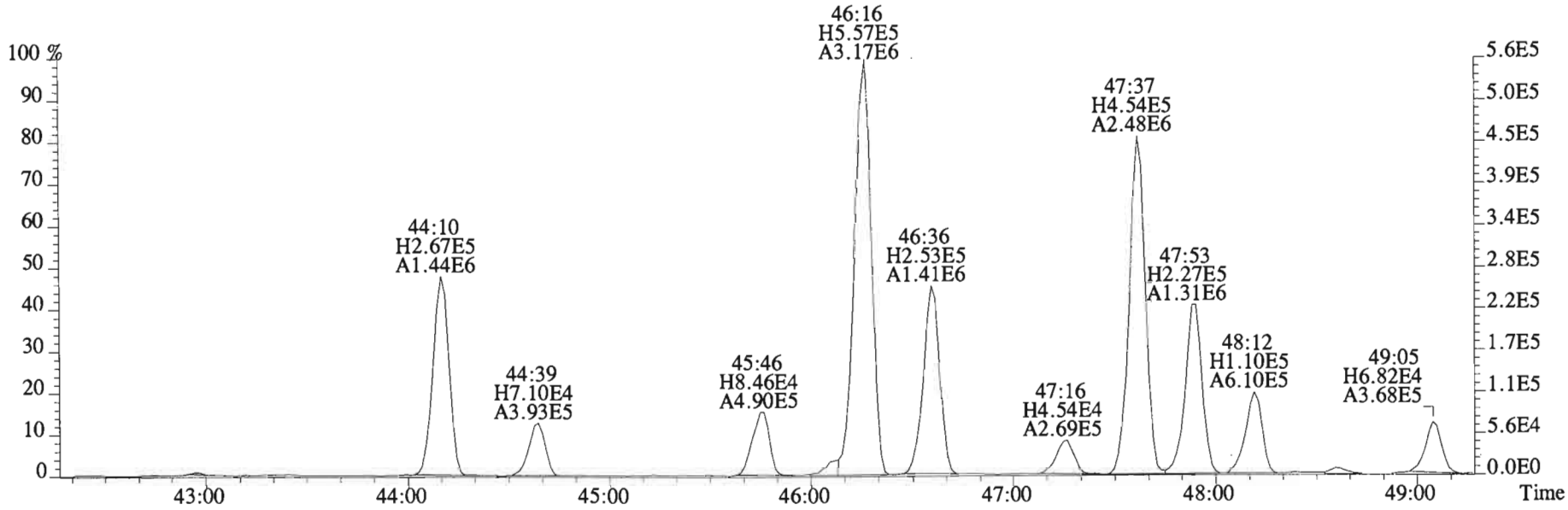
380.9760 S:9 F:4



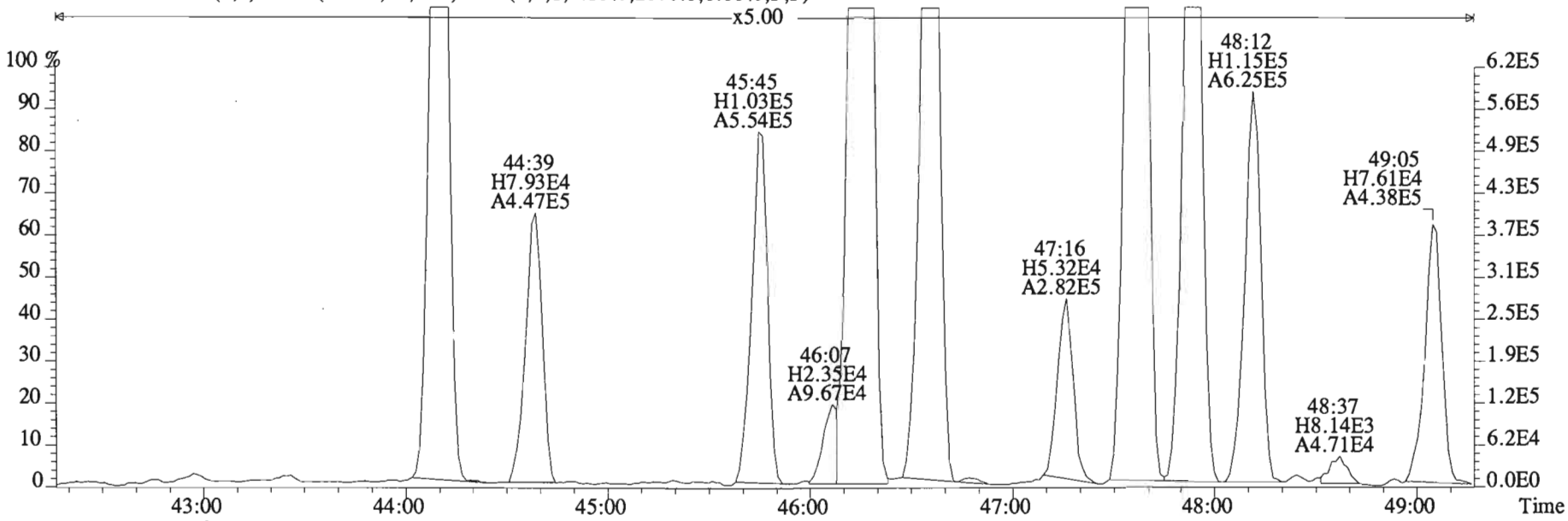
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
393.8025 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2076.0,0.00%,F,F)



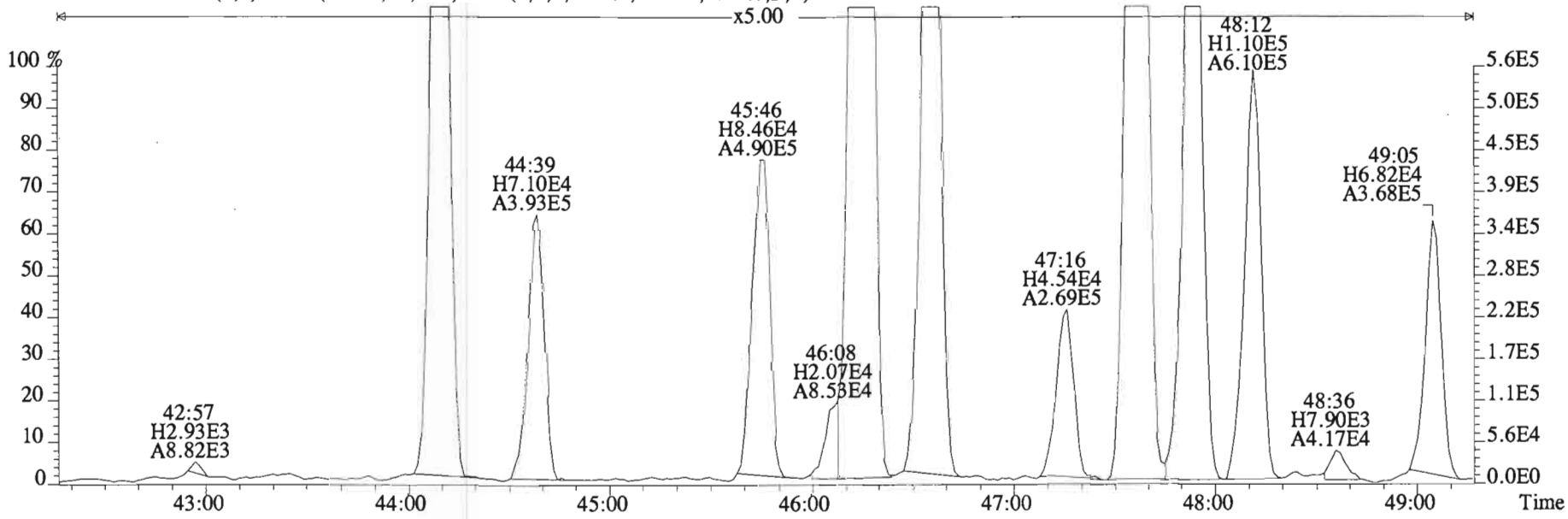
395.7995 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2072.0,0.00%,F,F)



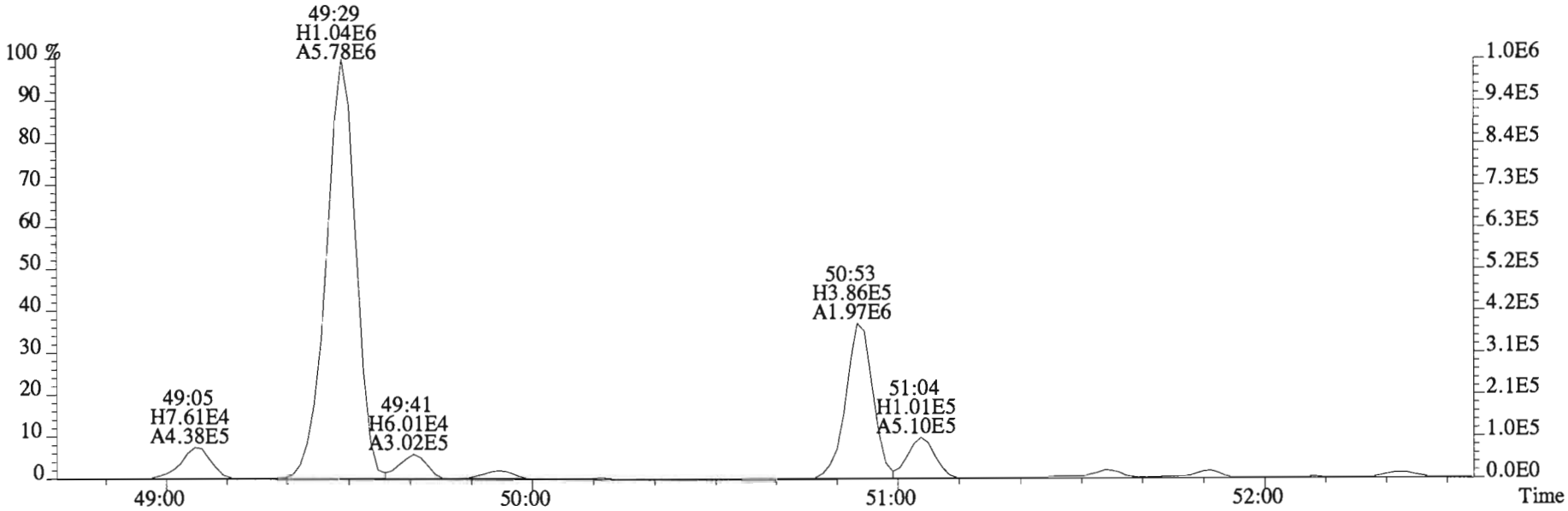
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
393.8025 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2076.0,0.00%,F,F)



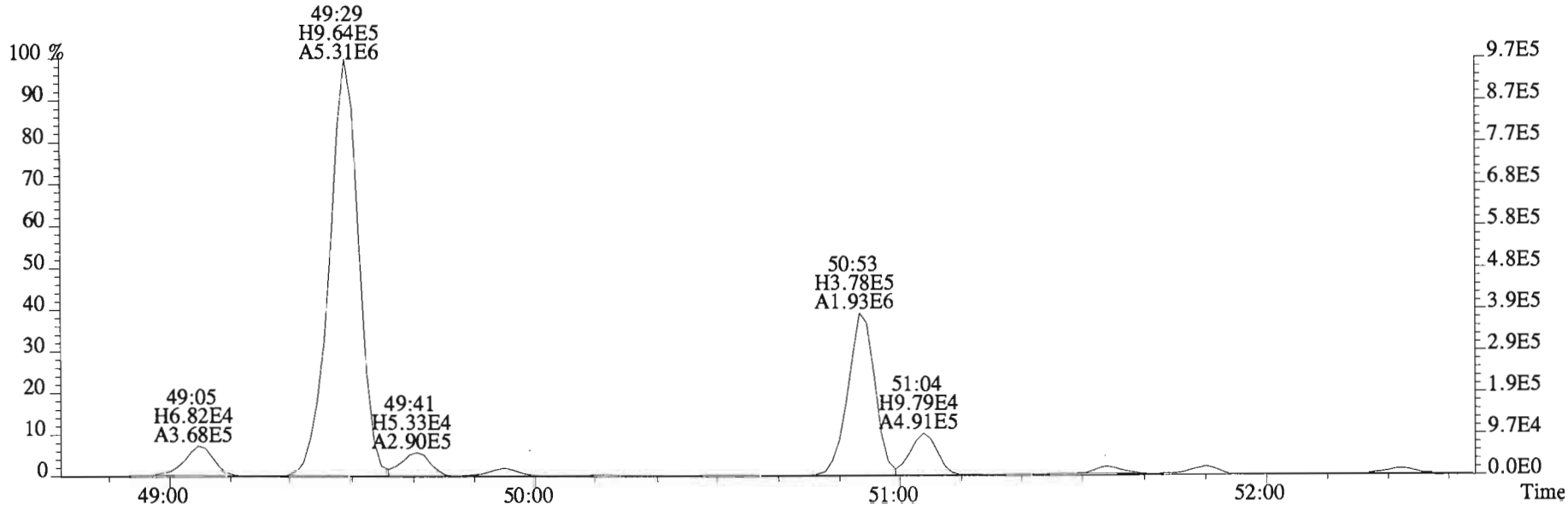
395.7995 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2072.0,0.00%,F,F)



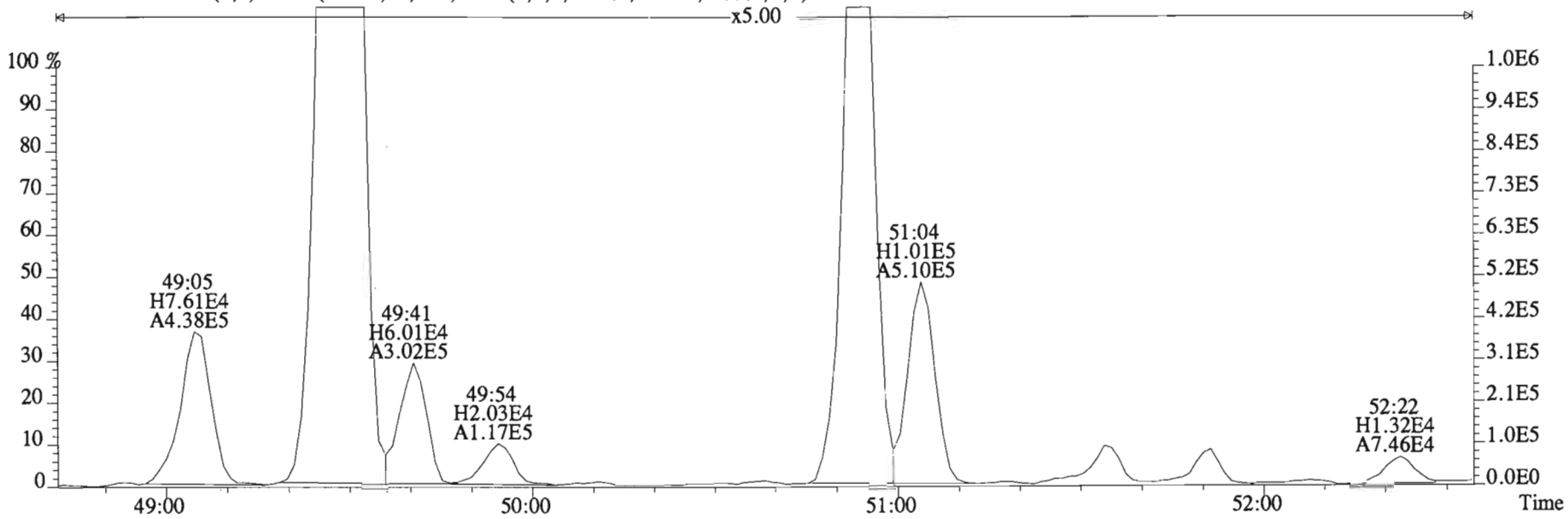
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
393.8025 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2076.0,0.00%,F,F)



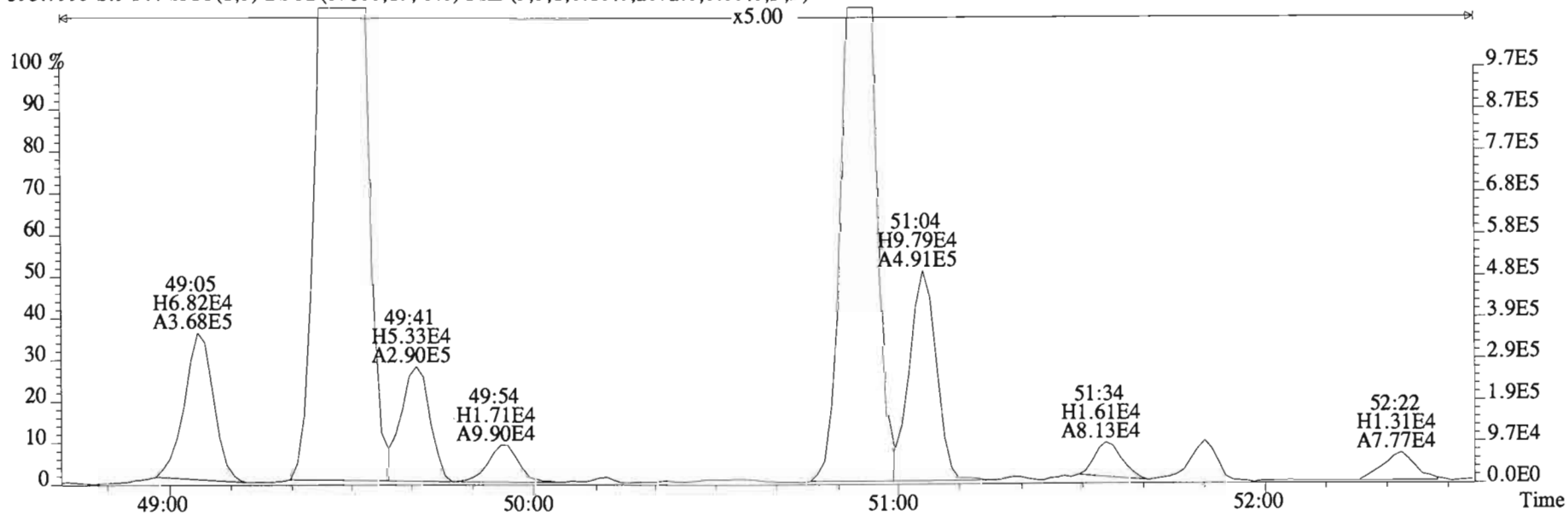
395.7995 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2072.0,0.00%,F,F)



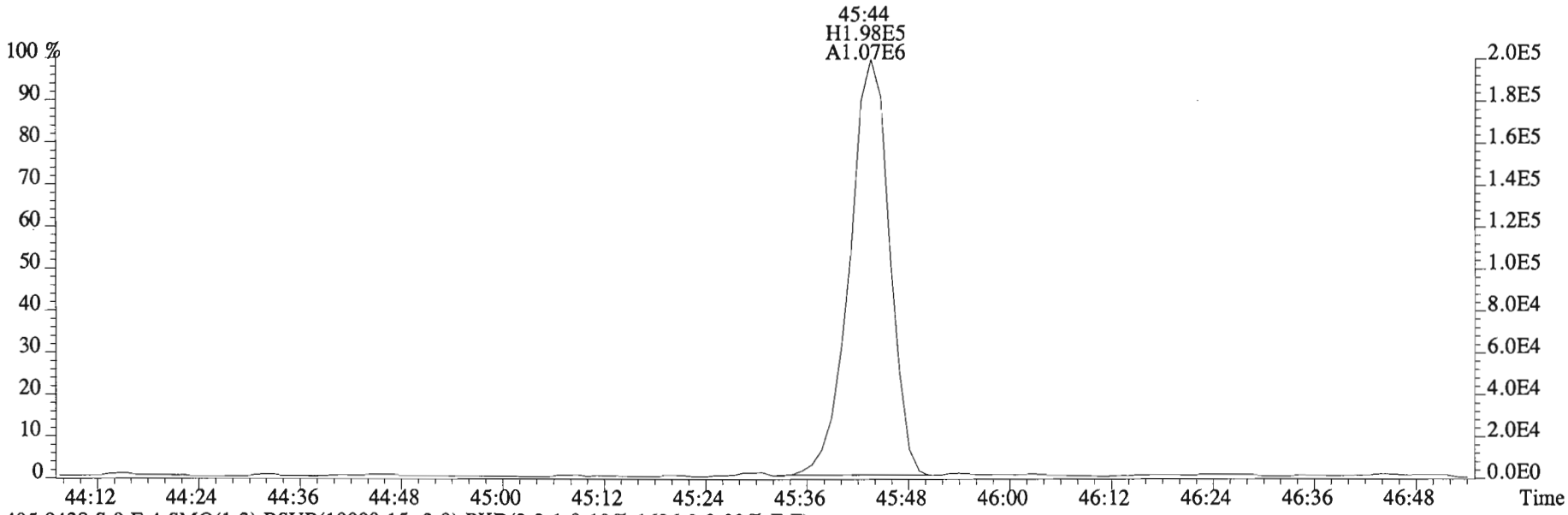
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
393.8025 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2076.0,0.00%,F,F)



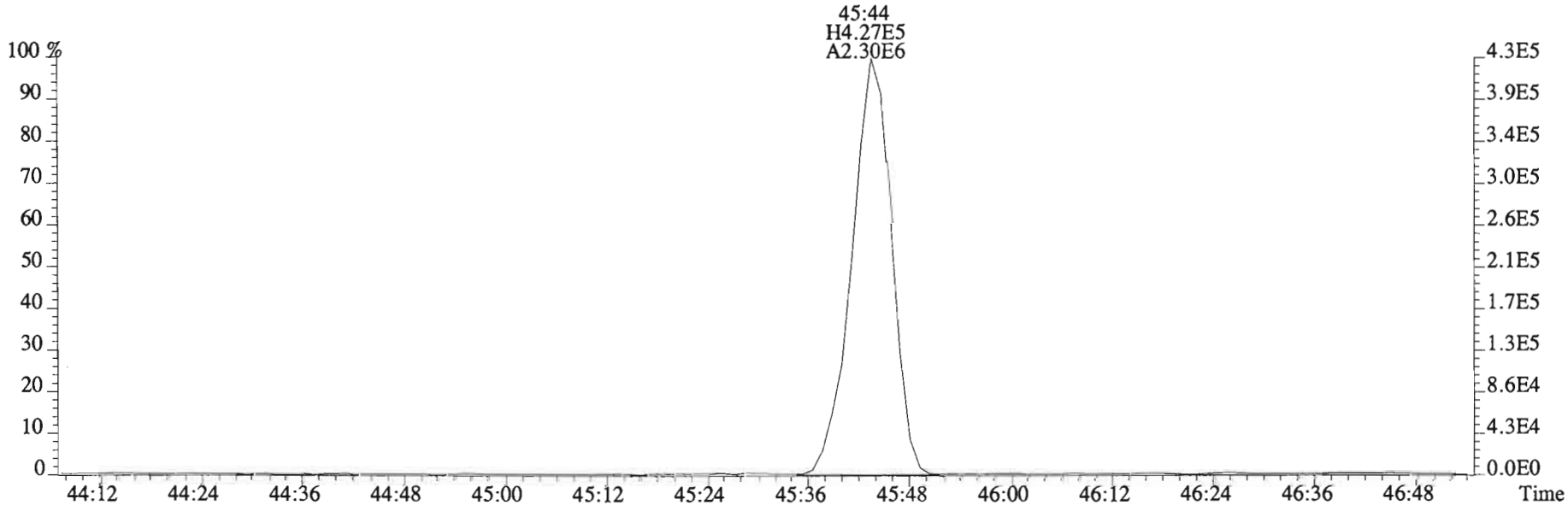
395.7995 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2072.0,0.00%,F,F)



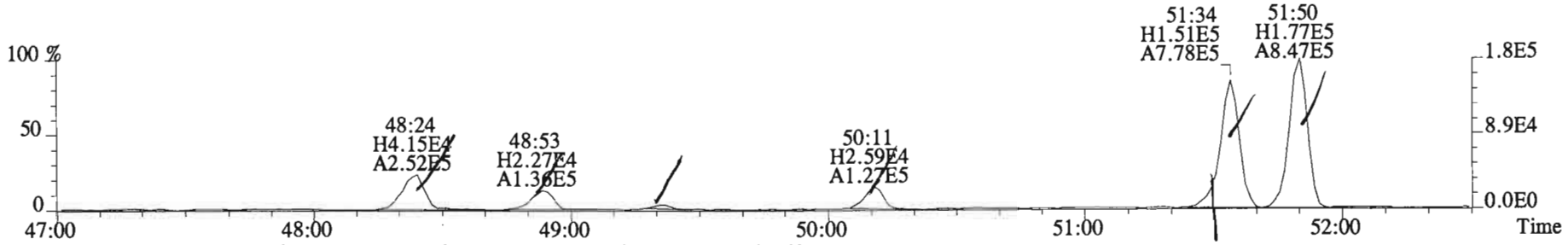
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
403.8457 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1752.0,0.00%,F,F)



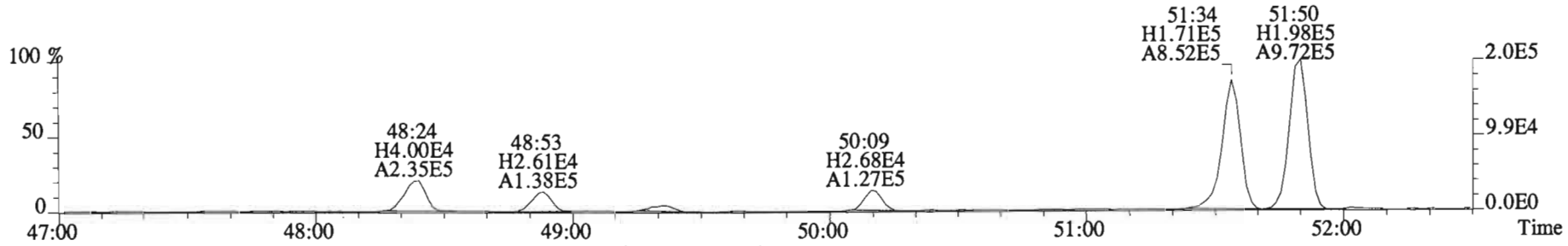
405.8428 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1636.0,0.00%,F,F)



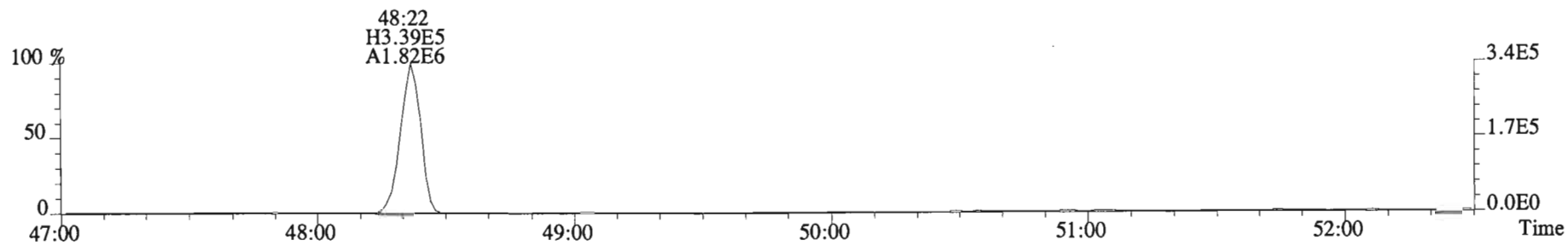
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
427.7635 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1668.0,0.00%,F,F)



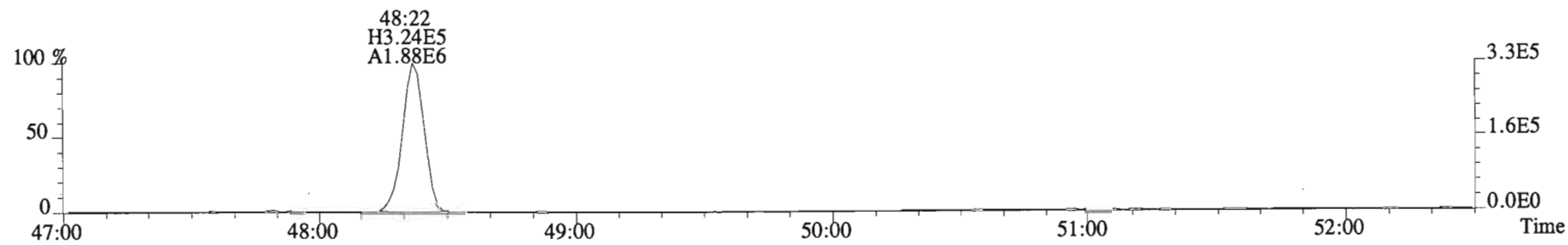
429.7606 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1480.0,0.00%,F,F)



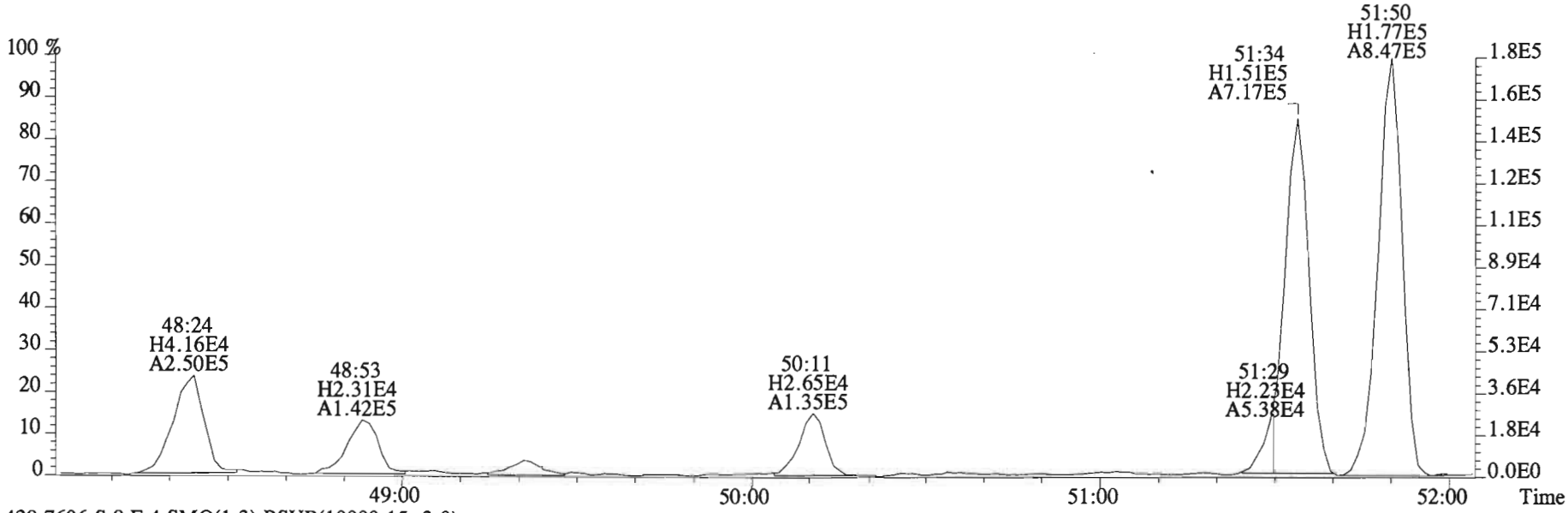
439.8038 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1752.0,0.00%,F,F)



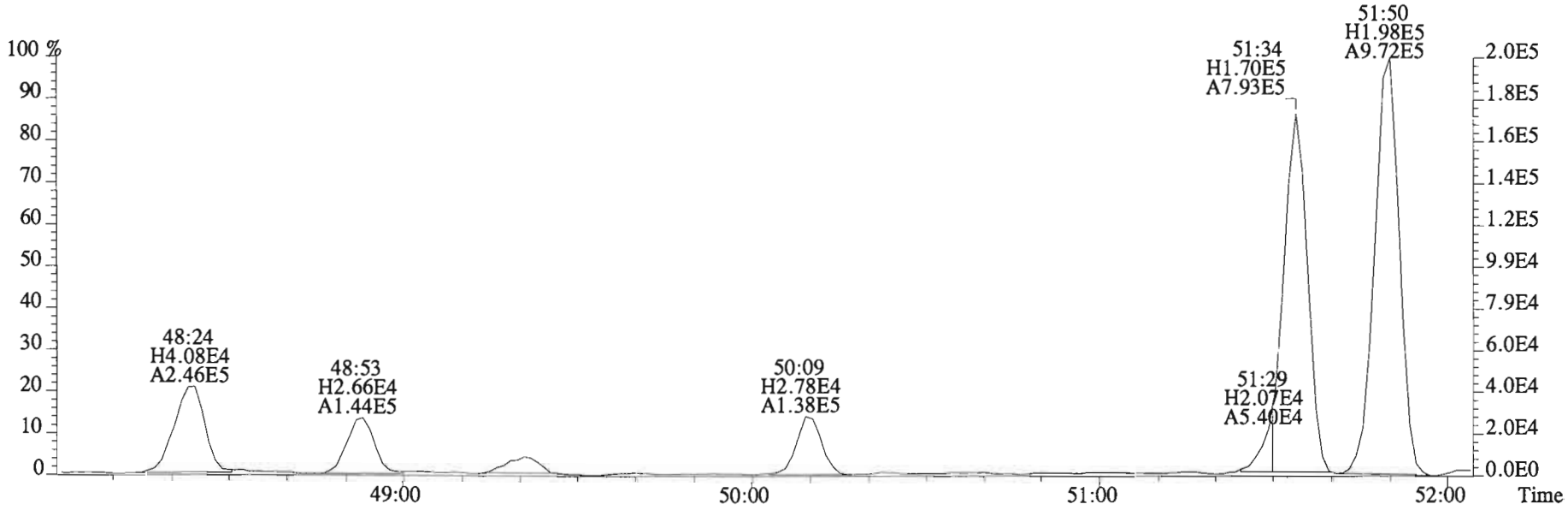
441.8008 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1780.0,0.00%,F,F)



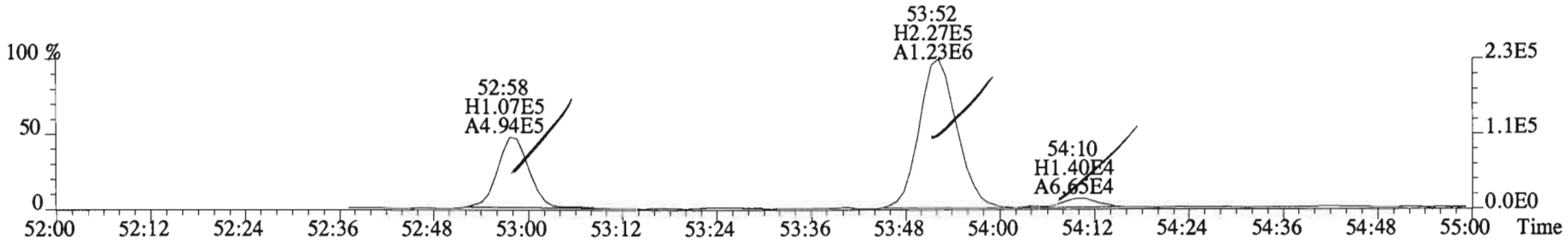
File:150205E1 #1-555 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
427.7635 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



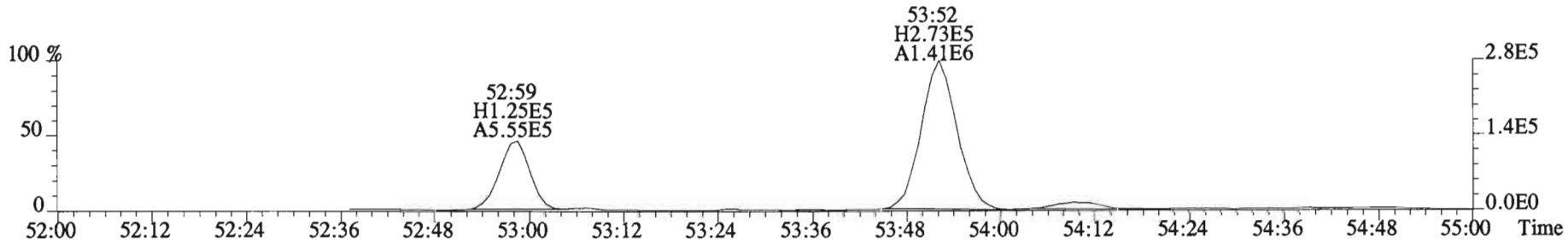
429.7606 S:9 F:4 SMO(1,3) BSUB(10000,15,-3.0)



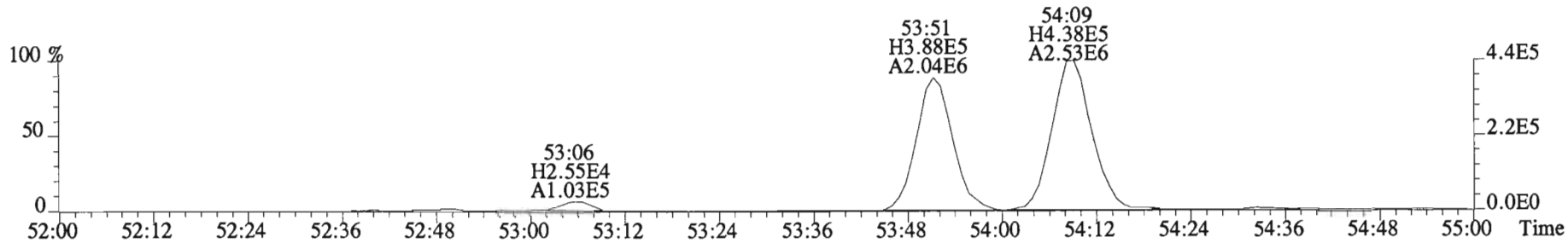
File:150205E1 #1-430 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
427.7635 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2724.0,0.00%,F,F)



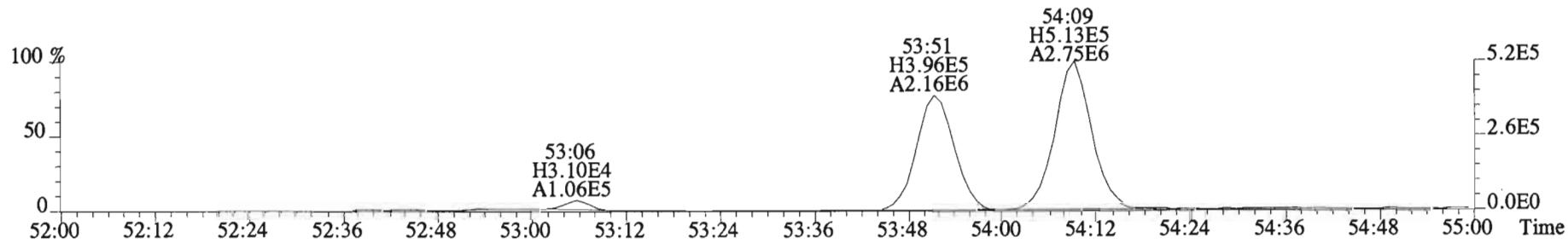
429.7606 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2580.0,0.00%,F,F)



439.8038 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2920.0,0.00%,F,F)

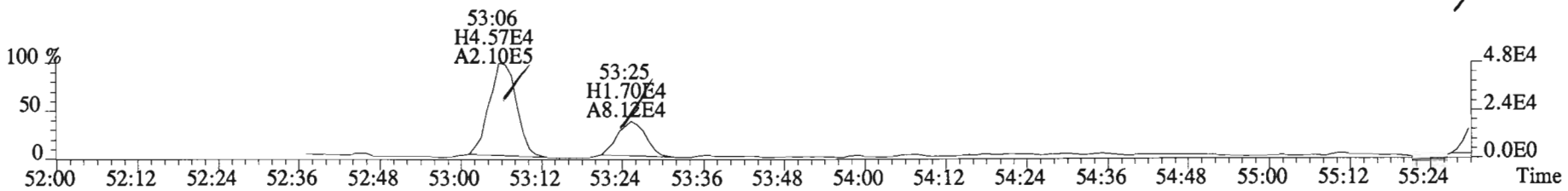


441.8008 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3520.0,0.00%,F,F)

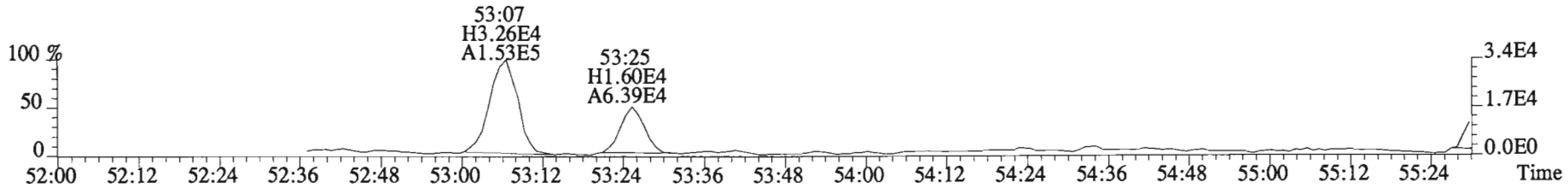


File:150205E1 #1-430 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1

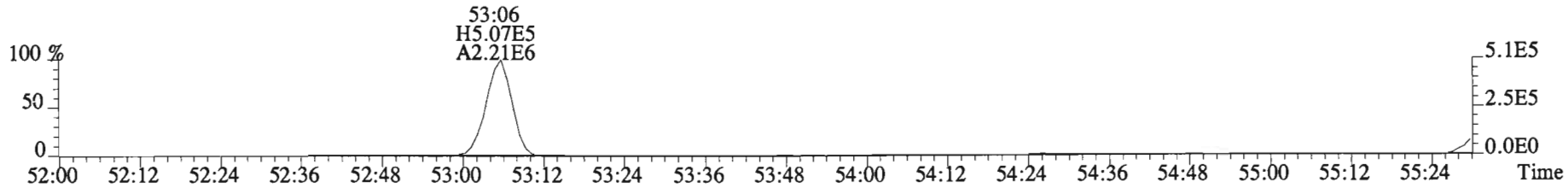
463.7216 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



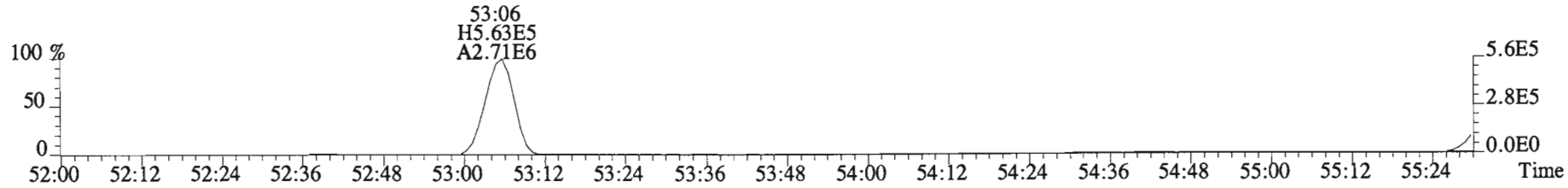
465.7186 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1924.0,0.00%,F,F)



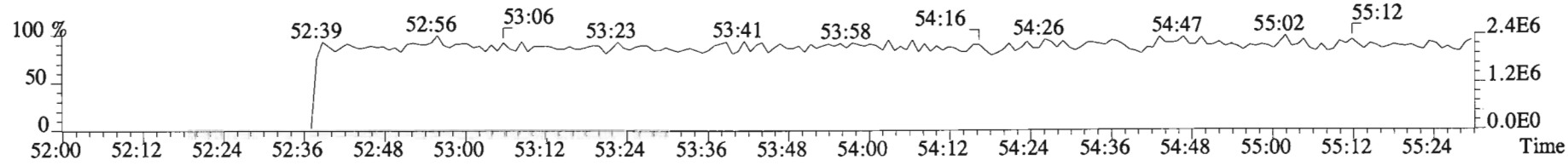
473.7648 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2692.0,0.00%,F,F)



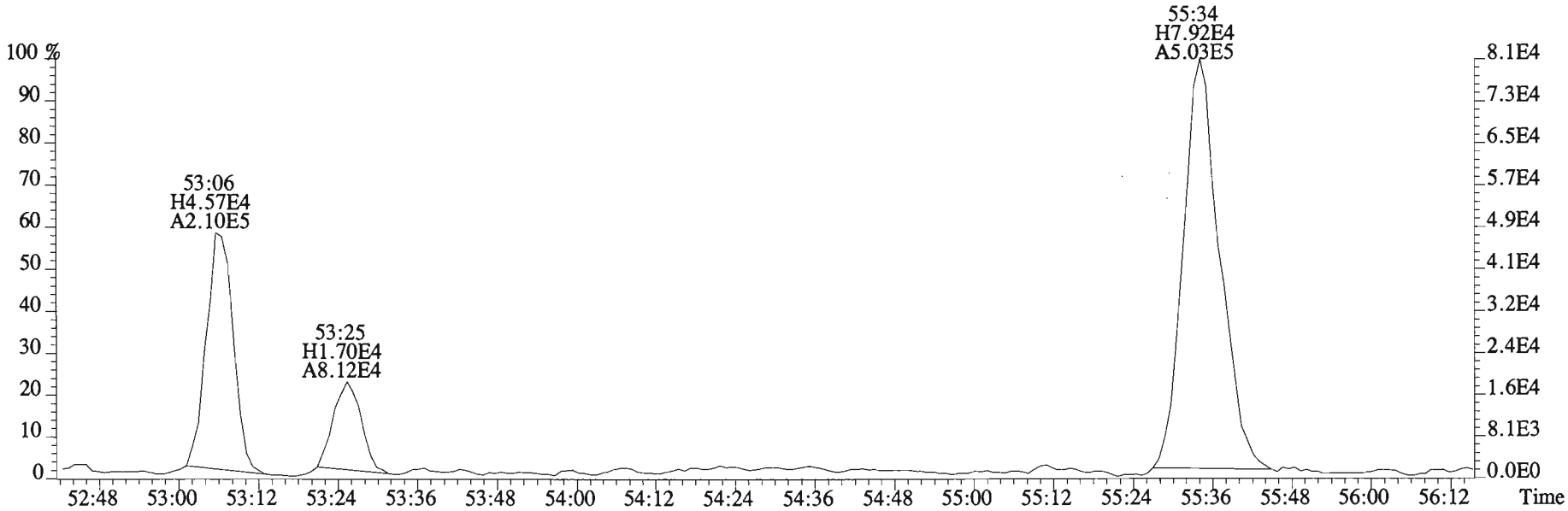
475.7619 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2056.0,0.00%,F,F)



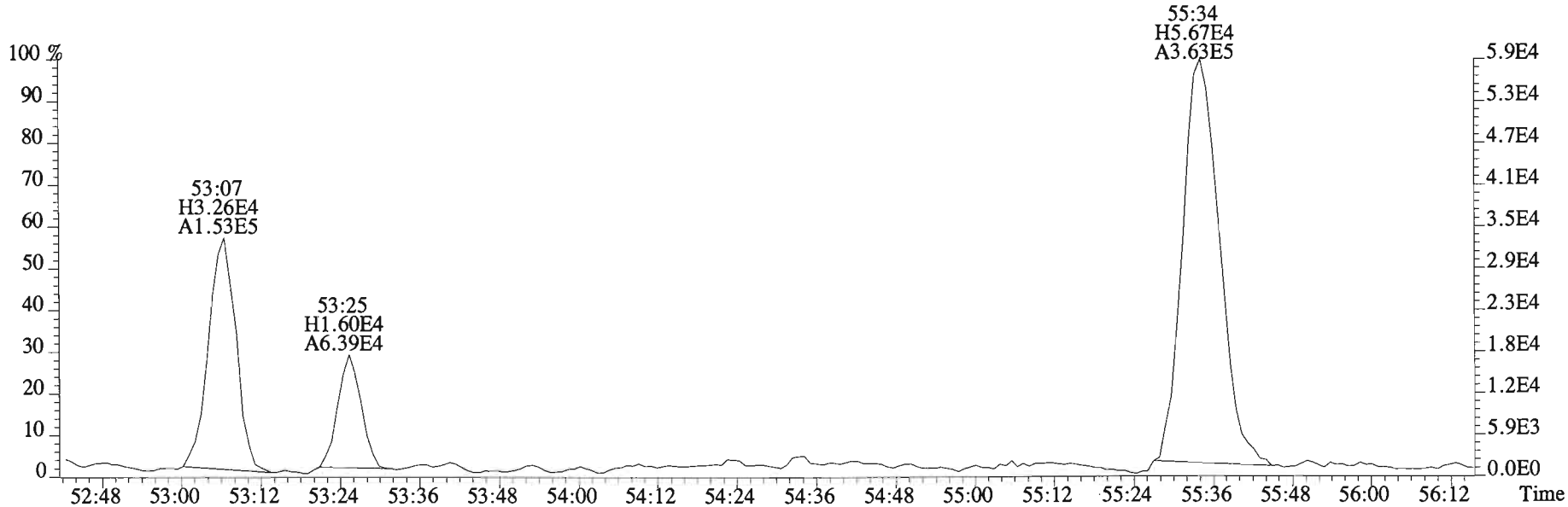
492.9697 S:9 F:5



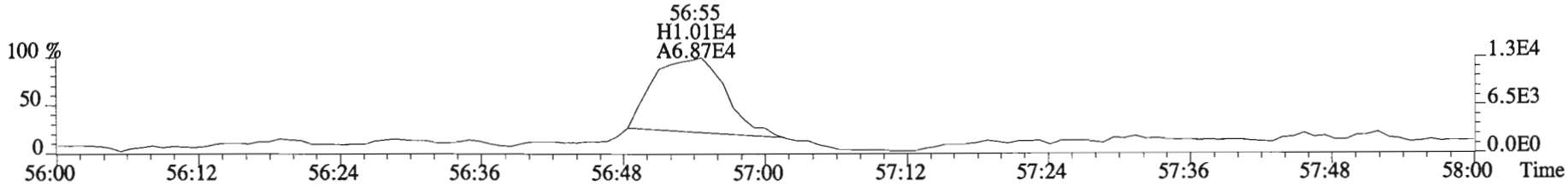
File:150205E1 #1-430 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
463.7216 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



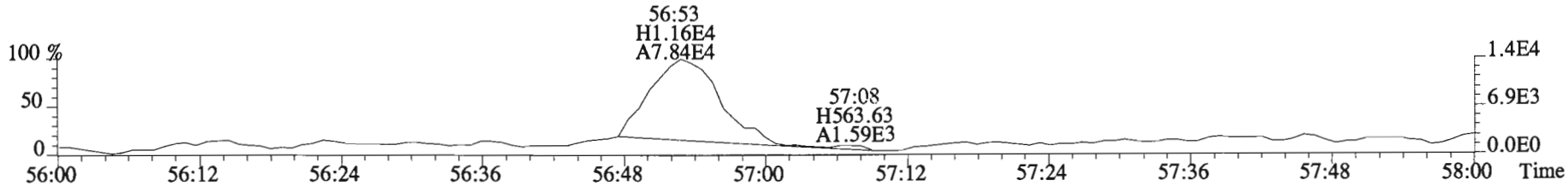
465.7186 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1924.0,0.00%,F,F)



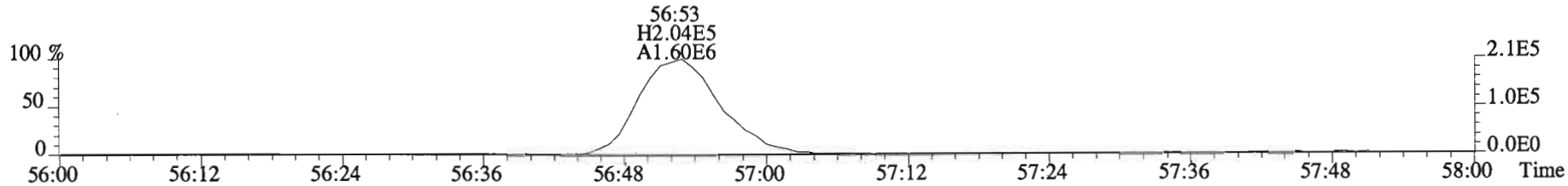
File:150205E1 #1-430 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
497.6826 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1876.0,0.00%,F,F)



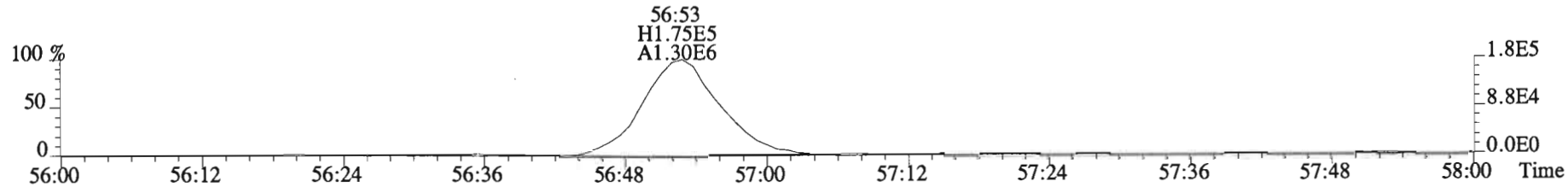
499.6797 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1968.0,0.00%,F,F)



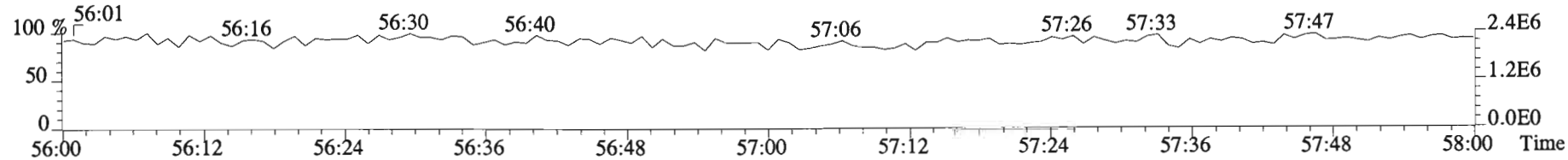
509.7229 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1772.0,0.00%,F,F)



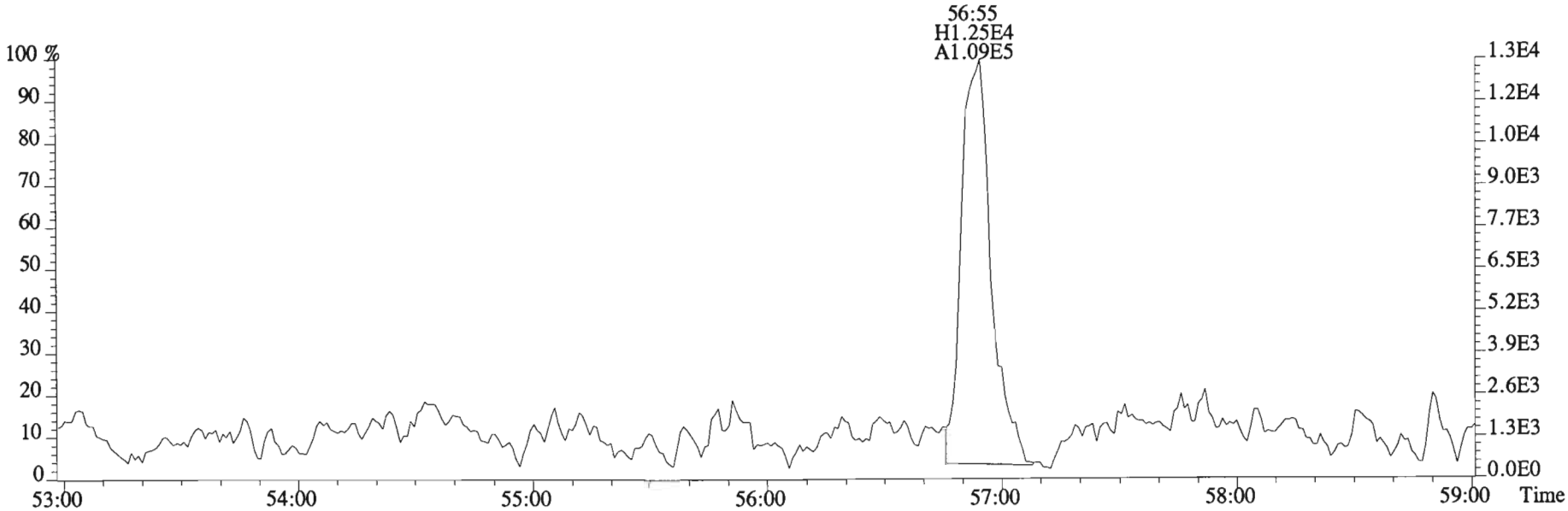
511.7199 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1884.0,0.00%,F,F)



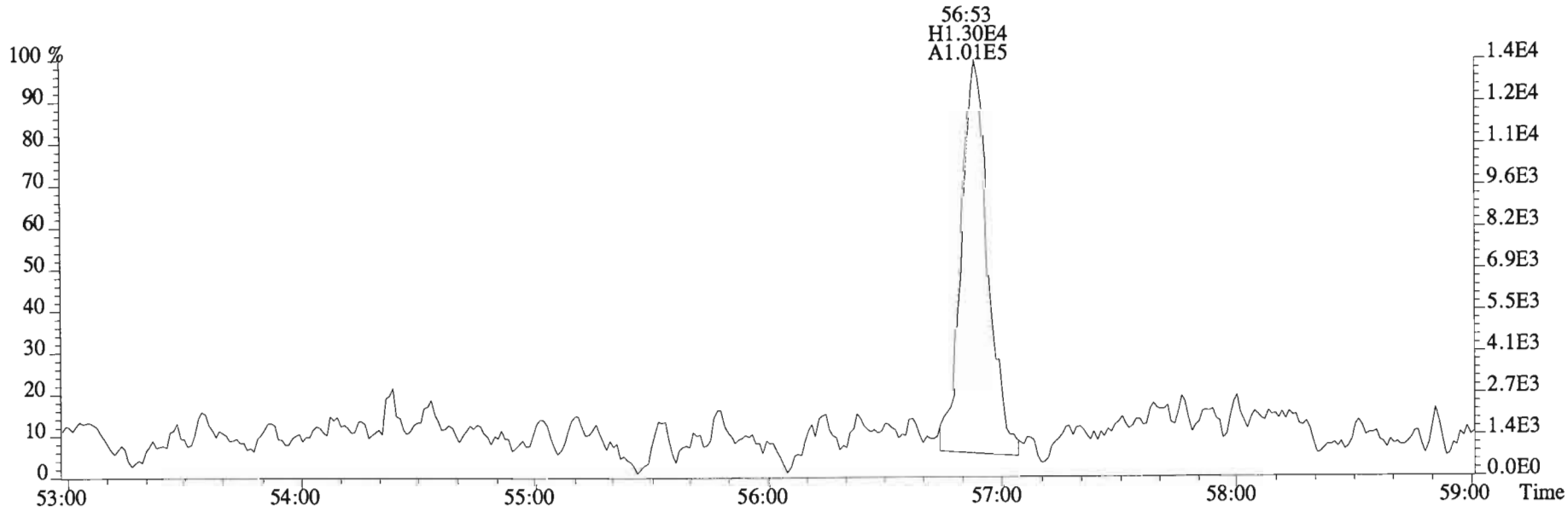
492.9697 S:9 F:5



File:150205E1 #1-430 Acq: 5-FEB-2015 17:32:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-8 Text:1500108-02@10X AS-CB-05-20150120-S Exp:PCB_ZB1
497.6826 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1876.0,0.00%,F,F)



499.6797 S:9 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1968.0,0.00%,F,F)



Client ID: AS-CB-UNR-20150120-S Filename: 150205E1 S:10 Acq: 5-FEB-15 18:36:06 ConCal: ST150205E1-1
Lab ID: 1500108-03@10X RE1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.005 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	4.19e+05	2.78	y 16:11	1.19	175		*	2.5	*	1.001	0.996	1.006
Mono	PCB-2	8.70e+04	2.90	y 18:33	1.18	35.8		*	2.5	*	0.988	0.984	0.994
Mono	PCB-3	2.50e+05	2.94	y 18:47	1.43	85.5		*	2.5	*	1.001	0.996	1.006
Di	PCB-4/10	1.78e+06	1.66	y 20:07	1.57	884		*	2.5	*	1.001	0.997	1.007
Di	PCB-7/9	8.75e+05	1.36	y 21:55	1.21	371		*	2.5	*	0.868	0.866	0.874
Di	PCB-6	2.15e+06	1.62	y 22:34	1.30	845		*	2.5	*	0.893	0.890	0.899
Di	PCB-5/8	8.00e+06	1.61	y 22:58	1.15	3570		*	2.5	*	0.909	0.907	0.917
Di	PCB-14	*	*	n NotF	1.11	*		24300	2.5	282	*	0.949	0.959
Di	PCB-11	8.21e+06	1.68	y 25:17	1.09	3740		*	2.5	*	1.001	0.995	1.005
Di	PCB-12/13	6.60e+05	1.59	y 25:39	1.19	274		*	2.5	*	1.016	1.011	1.021
Di	PCB-15	4.37e+06	1.53	y 25:59	1.28	1690		*	2.5	*	1.029	1.023	1.033
Tri	PCB-19	4.64e+05	1.15	y 24:16	1.04	415		*	2.5	*	1.001	0.996	1.006
Tri	PCB-30	*	*	n NotF	1.71	*		1660	2.5	18.1	*	1.032	1.042
Tri	PCB-18	5.20e+06	1.04	y 25:54	0.78	4190		*	2.5	*	0.954	0.949	0.959
Tri	PCB-17	2.11e+06	1.04	y 26:04	0.92	1440		*	2.5	*	0.960	0.956	0.966
Tri	PCB-24/27	8.40e+05	1.01	y 26:38	1.19	445		*	2.5	*	0.981	0.977	0.987
Tri	PCB-16/32	3.60e+06	1.05	y 27:09	0.94	2410		*	2.5	*	1.000	0.995	1.005
Tri	PCB-34	6.56e+04	0.94	y 27:57	1.14	30.9		*	2.5	*	0.960	0.955	0.965
Tri	PCB-23	*	*	n NotF	1.28	*		1960	2.5	18.6	*	0.959	0.969
Tri	PCB-29	8.50e+04	1.12	y 28:18	1.08	42.0		*	2.5	*	0.972	0.967	0.977
Tri	PCB-26	4.08e+06	1.07	y 28:30	1.21	1810		*	2.5	*	0.979	0.974	0.984
Tri	PCB-25	2.09e+06	1.10	y 28:40	1.26	885		*	2.5	*	0.985	0.979	0.989
Tri	PCB-31	1.02e+07	1.04	y 29:01	1.28	4240		*	2.5	*	0.997	0.992	1.002
Tri	PCB-28	9.39e+06	1.05	y 29:08	1.71	2930		*	2.5	*	1.001	0.995	1.005
Tri	PCB-20/21/33	5.66e+06	1.06	y 29:45	1.08	2800		*	2.5	*	1.022	1.017	1.027
Tri	PCB-22	3.30e+06	1.08	y 30:11	1.21	1460		*	2.5	*	1.037	1.032	1.042
Tri	PCB-36	*	*	n NotF	1.14	*		1960	2.5	25.8	*	0.928	0.938
Tri	PCB-39	*	*	n NotF	1.12	*		1960	2.5	26.4	*	0.943	0.953
Tri	PCB-38	1.05e+05	1.15	y 32:03	1.20	50.5		*	2.5	*	0.971	0.966	0.976
Tri	PCB-35	3.56e+05	0.96	y 32:35	1.23	166		*	2.5	*	0.988	0.982	0.992
Tri	PCB-37	3.24e+06	1.10	y 33:01	1.23	1520		*	2.5	*	1.001	0.995	1.005
Tetra	PCB-54	4.38e+04	0.70	y 28:01	1.10	27.9		*	2.5	*	1.001	0.996	1.006
Tetra	PCB-50	*	*	n NotF	0.88	*		2400	2.5	41.4	*	1.037	1.047
Tetra	PCB-53	1.30e+06	0.76	y 29:49	1.06	1050		*	2.5	*	0.946	0.942	0.952
Tetra	PCB-51	4.64e+05	0.82	y 30:09	0.99	405		*	2.5	*	0.957	0.952	0.962
Tetra	PCB-45	6.86e+05	0.71	y 30:35	0.86	687		*	2.5	*	0.970	0.966	0.976
Tetra	PCB-46	3.41e+05	0.72	y 31:04	0.85	349		*	2.5	*	0.986	0.981	0.991

Integrations by:

Analyst: DMS

Date: 2/10/15

Reviewed by: _____ Date: 2/10/15

Client ID: AS-CB-UNR-20150120-S Filename: 150205E1 S:10 Acq: 5-FEB-15 18:36:06 ConCal: ST150205E1-1
Lab ID: 1500108-03@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.005 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	1.20e+07	0.75	y	31:32	1.28	8070		*	2.5	*	1.001	0.996	1.006
Tetra	PCB-73	4.11e+04	0.78	y	31:41	1.35	26.2		*	2.5	*	1.005	1.000	1.010
Tetra	PCB-43/49	6.08e+06	0.79	y	31:50	0.99	5290		*	2.5	*	1.010	1.005	1.015
Tetra	PCB-47	1.92e+06	0.78	y	32:03	1.06	1470		*	2.5	*	1.001	0.996	1.006
Tetra	PCB-48/75	1.02e+06	0.80	y	32:10	1.23	675		*	2.5	*	1.004	0.999	1.009
Tetra	PCB-65	*	*	n	NotF	1.22	*		2400	2.5	36.2	*	1.008	1.018
Tetra	PCB-62	*	*	n	NotF	1.22	*		2400	2.5	36.3	*	1.011	1.021
Tetra	PCB-44	4.95e+06	0.75	y	32:50	0.86	4650		*	2.5	*	1.025	1.021	1.031
Tetra	PCB-42/59	1.82e+06	0.76	y	33:04	1.14	1300		*	2.5	*	1.032	1.028	1.038
Tetra	PCB-41/64/71/72	6.10e+06	0.76	y	33:39	1.21	4090		*	2.5	*	1.051	1.046	1.056
Tetra	PCB-68	1.30e+05	0.81	y	33:55	1.35	78.0		*	2.5	*	1.059	1.054	1.064
Tetra	PCB-40	6.37e+05	0.78	y	34:08	0.70	735		*	2.5	*	1.066	1.061	1.071
Tetra	PCB-57	9.08e+04	0.80	y	34:29	0.98	60.0		*	2.5	*	0.970	0.965	0.975
Tetra	PCB-67	3.21e+05	0.67	y	34:48	1.11	188		*	2.5	*	0.979	0.974	0.984
Tetra	PCB-58	*	*	n	NotF	0.93	*		2400	2.5	38.7	*	0.977	0.987
Tetra	PCB-63	2.45e+05	0.70	y	35:05	0.95	166		*	2.5	*	0.987	0.982	0.992
Tetra	PCB-74	2.92e+06	0.73	y	35:22	1.24	1520		*	2.5	*	0.995	0.990	1.000
Tetra	PCB-61/70	8.94e+06	0.77	y	35:34	0.95	6070		*	2.5	*	1.000	0.995	1.005
Tetra	PCB-76/66	5.72e+06	0.80	y	35:47	1.04	3540		*	2.5	*	1.007	1.001	1.011
Tetra	PCB-80	*	*	n	NotF	1.19	*		2400	2.5	29.7	*	0.996	1.006
Tetra	PCB-55	2.17e+05	0.75	y	36:17	1.04	129		*	2.5	*	1.008	1.005	1.015
Tetra	PCB-56/60	3.66e+06	0.80	y	36:48	1.01	2240		*	2.5	*	1.023	1.019	1.029
Tetra	PCB-79	3.42e+05	0.70	y	37:53	1.08	196		*	2.5	*	1.053	1.048	1.058
Tetra	PCB-78	*	*	n	NotF	1.27	*		2400	2.5	31.7	*	0.982	0.992
Tetra	PCB-81	9.26e+04	0.70	y	39:04	1.33	48.9		*	2.5	*	0.999	0.995	1.005
Tetra	PCB-77	1.18e+06	0.86	y	39:41	1.10	734		*	2.5	*	1.000	0.995	1.005
Penta	PCB-104	*	*	n	NotF	1.18	*		2110	2.5	62.6	*	0.996	1.006
Penta	PCB-96	1.19e+05	1.34	y	33:58	1.14	114		*	2.5	*	1.039	1.034	1.044
Penta	PCB-103	1.43e+05	1.38	y	34:30	0.96	163		*	2.5	*	1.056	1.050	1.060
Penta	PCB-100	7.89e+04	1.42	y	34:51	0.94	92.2		*	2.5	*	1.066	1.061	1.071
Penta	PCB-94	6.74e+04	1.35	y	35:19	1.06	99.3		*	2.5	*	0.985	0.980	0.990
Penta	PCB-95/98/102	1.15e+07	1.58	y	35:51	1.22	14600		*	2.5	*	1.000	0.995	1.005
Penta	PCB-93	*	*	n	NotF	0.84	*		2110	2.5	128	*	0.997	1.007
Penta	PCB-88/91	1.84e+06	1.68	y	36:16	1.12	2570		*	2.5	*	1.012	1.005	1.015
Penta	PCB-121	*	*	n	NotF	1.62	*		2110	2.5	66.9	*	1.009	1.019
Penta	PCB-84/92	5.41e+06	1.65	y	37:10	1.05	7340		*	2.5	*	0.990	0.985	0.995
Penta	PCB-89	7.21e+04	1.85	n	37:21	1.13	90.6	R	*	2.5	*	0.995	0.991	1.001

Analyst: DMS

Date: 2/10/15

Client ID: AS-CB-UNR-20150120-S Filename: 150205E1 S:10 Acq: 5-FEB-15 18:36:06 ConCal: ST150205E1-1
Lab ID: 1500108-03@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.005 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	1.39e+07	1.63	y 37:33	1.10	17900		*	2.5	*	1.000	0.995	1.005
Penta	PCB-113	*	*	n NotF	1.41	*		2110	2.5	68.3	*	1.002	1.012
Penta	PCB-99	5.52e+06	1.54	y 37:53	1.34	5870		*	2.5	*	1.009	1.004	1.014
Penta	PCB-119	4.51e+05	1.36	y 38:20	1.53	454		*	2.5	*	0.987	0.982	0.992
Penta	PCB-108/112	5.51e+05	1.86	n 38:30	1.28	665	R	*	2.5	*	0.991	0.986	0.996
Penta	PCB-83	*	*	n NotF	1.52	*		2110	2.5	76.1	*	0.990	1.000
Penta	PCB-97	3.45e+06	1.48	y 38:51	1.18	4510		*	2.5	*	1.000	0.995	1.005
Penta	PCB-86	*	*	n NotF	0.84	*		2110	2.5	137	*	0.999	1.009
Penta	PCB-87/117/125	5.36e+06	1.70	y 39:08	1.55	5340		*	2.5	*	1.008	1.002	1.012
Penta	PCB-111/115	2.36e+05	1.66	y 39:17	1.63	224		*	2.5	*	1.011	1.006	1.016
Penta	PCB-85/116	2.24e+06	1.60	y 39:24	1.30	2660		*	2.5	*	1.014	1.010	1.020
Penta	PCB-120	9.40e+04	1.20	n 39:36	1.68	86.6	R	*	2.5	*	1.020	1.016	1.026
Penta	PCB-110	2.46e+07	1.58	y 39:48	1.56	24400		*	2.5	*	1.025	1.020	1.030
Penta	PCB-82	1.16e+06	1.60	y 40:25	0.76	1880		*	2.5	*	0.976	0.971	0.981
Penta	PCB-124	7.74e+05	1.68	y 41:06	1.47	644		*	2.5	*	0.992	0.988	0.998
Penta	PCB-107/109	1.06e+06	1.73	y 41:16	1.32	983		*	2.5	*	0.997	0.991	1.001
Penta	PCB-123	1.98e+05	1.93	n 41:25	1.17	207	R	*	2.5	*	1.000	0.996	1.006
Penta	PCB-106/118	1.34e+07	1.60	y 41:37	1.17	13600		*	2.5	*	1.001	0.996	1.006
Penta	PCB-114	4.76e+05	1.35	y 42:15	1.30	320		*	2.5	*	1.000	0.995	1.005
Penta	PCB-122	2.68e+05	1.71	y 42:24	1.12	209		*	2.5	*	1.003	0.999	1.009
Penta	PCB-105	7.65e+06	1.59	y 43:08	1.30	4980		*	2.5	*	1.000	0.995	1.005
Penta	PCB-127	*	*	n NotF	1.33	*		2960	2.5	64.0	*	0.996	1.006
Penta	PCB-126	2.77e+05	1.50	y 45:23	1.18	218		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-155	*	*	n NotF	1.11	*		1440	2.5	63.4	*	0.966	1.006
Hexa	PCB-150	*	*	n NotF	1.00	*		1440	2.5	70.7	*	1.030	1.040
Hexa	PCB-152	*	*	n NotF	1.12	*		1440	2.5	63.3	*	1.043	1.053
Hexa	PCB-145	*	*	n NotF	1.20	*		1440	2.5	58.8	*	1.055	1.065
Hexa	PCB-136	2.64e+06	1.22	y 39:36	1.18	3630		*	2.5	*	1.068	1.064	1.074
Hexa	PCB-148	*	*	n NotF	0.74	*		1440	2.5	94.9	*	1.066	1.076
Hexa	PCB-154	1.85e+05	1.18	y 40:13	0.86	349		*	2.5	*	1.085	1.080	1.090
Hexa	PCB-151	3.26e+06	1.27	y 40:50	0.75	7070		*	2.5	*	1.101	1.097	1.107
Hexa	PCB-135	2.06e+06	1.34	y 41:04	0.79	4210		*	2.5	*	1.108	1.103	1.113
Hexa	PCB-144	6.06e+05	1.24	y 41:10	0.76	1290		*	2.5	*	1.110	1.105	1.117
Hexa	PCB-147	2.61e+05	1.41	y 41:17	0.82	515		*	2.5	*	1.113	1.109	1.121
Hexa	PCB-139/149	1.25e+07	1.25	y 41:33	0.76	26600		*	2.5	*	1.121	1.116	1.128
Hexa	PCB-140	8.70e+04	1.17	y 41:45	0.72	195		*	2.5	*	1.126	1.121	1.133
Hexa	PCB-134/143	1.51e+06	1.23	y 42:12	0.92	1630		*	2.5	*	0.975	0.970	0.980

Analyst: DMS

Date: 2/10/15

Client ID: AS-CB-UNR-20150120-S Filename: 150205E1 S:10 Acq: 5-FEB-15 18:36:06 ConCal: ST150205E1-1
Lab ID: 1500108-03@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.005 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	7.74e+05	1.27	y	42:29	0.82	938		*	2.5	*	0.982	0.977	0.987
Hexa	PCB-131	*	*	n	NotF	0.91	*		2340	2.5	76.7	*	0.981	0.991
Hexa	PCB-146/165	5.10e+06	1.25	y	42:52	1.25	4070		*	2.5	*	0.991	0.986	0.996
Hexa	PCB-132/161	9.07e+06	1.24	y	43:09	1.10	8150		*	2.5	*	0.997	0.992	1.002
Hexa	PCB-153	3.09e+07	1.22	y	43:17	1.25	24600		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-168	*	*	n	NotF	1.45	*		2340	2.5	48.1	*	1.001	1.011
Hexa	PCB-141	6.12e+06	1.25	y	44:02	1.09	6180		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-137	1.54e+06	1.18	y	44:25	1.06	1590		*	2.5	*	1.009	1.004	1.014
Hexa	PCB-130	1.63e+06	1.15	y	44:31	0.96	1860		*	2.5	*	1.011	1.006	1.016
Hexa	PCB-138/163/164	3.72e+07	1.21	y	44:53	1.29	29700		*	2.5	*	1.001	0.996	1.006
Hexa	PCB-158/160	4.37e+06	1.16	y	45:07	1.34	3360		*	2.5	*	1.006	1.001	1.011
Hexa	PCB-129	1.20e+06	1.28	y	45:23	0.85	1450		*	2.5	*	1.012	1.007	1.017
Hexa	PCB-166	1.31e+05	1.14	y	45:51	1.19	105		*	2.5	*	0.993	0.988	0.998
Hexa	PCB-159	*	*	n	NotF	1.11	*		2340	2.5	64.2	*	0.996	1.006
Hexa	PCB-128/162	5.28e+06	1.27	y	46:26	1.05	4780		*	2.5	*	1.006	1.002	1.012
Hexa	PCB-167	1.54e+06	1.22	y	46:51	1.20	1110		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-156	2.91e+06	1.20	y	48:09	1.14	2340		*	2.5	*	1.000	0.996	1.006
Hexa	PCB-157	8.07e+05	1.14	y	48:24	1.16	606		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-169	*	*	n	NotF	1.12	*		2340	2.5	62.4	*	0.995	1.005
Hepta	PCB-188	*	*	n	NotF	1.58	*		1850	2.5	32.5	*	0.996	1.006
Hepta	PCB-184	*	*	n	NotF	1.63	*		1850	2.5	31.5	*	1.006	1.016
Hepta	PCB-179	3.92e+06	1.08	y	44:08	1.30	4210		*	2.5	*	1.029	1.024	1.034
Hepta	PCB-176	1.13e+06	1.02	y	44:37	1.48	1070		*	2.5	*	1.040	1.035	1.045
Hepta	PCB-186	*	*	n	NotF	1.45	*		1850	2.5	35.4	*	1.050	1.060
Hepta	PCB-178	1.35e+06	1.08	y	45:42	1.03	1830		*	2.5	*	1.065	1.061	1.071
Hepta	PCB-175	2.77e+05	1.17	y	46:03	1.01	384		*	2.5	*	1.074	1.069	1.079
Hepta	PCB-182/187	8.95e+06	1.07	y	46:13	1.25	10000		*	2.5	*	1.077	1.073	1.083
Hepta	PCB-183	4.11e+06	1.00	y	46:33	1.21	4770		*	2.5	*	1.085	1.081	1.091
Hepta	PCB-185	7.44e+05	0.97	y	47:13	1.80	839		*	2.5	*	0.955	0.951	0.961
Hepta	PCB-174	6.71e+06	1.05	y	47:35	1.38	9890		*	2.5	*	0.963	0.958	0.968
Hepta	PCB-181	*	*	n	NotF	1.38	*		1850	2.5	51.3	*	0.960	0.970
Hepta	PCB-177	3.77e+06	1.07	y	47:51	1.26	6090		*	2.5	*	0.968	0.963	0.973
Hepta	PCB-171	1.77e+06	1.04	y	48:09	1.58	2270		*	2.5	*	0.974	0.970	0.980
Hepta	PCB-173	1.67e+05	0.94	y	48:35	1.11	305		*	2.5	*	0.983	0.978	0.988
Hepta	PCB-172	1.10e+06	1.20	y	49:02	1.63	1360		*	2.5	*	0.992	0.987	0.997
Hepta	PCB-192	*	*	n	NotF	1.74	*		1850	2.5	40.6	*	0.991	1.001
Hepta	PCB-180	1.50e+07	1.06	y	49:26	1.34	22700		*	2.5	*	1.000	0.995	1.005

Analyst: DMS

Date: 2/10/15

Client ID: AS-CB-UNR-20150120-S Filename: 150205E1 S:10 Acq: 5-FEB-15 18:36:06 ConCal: ST150205E1-1

Lab ID: 1500108-03@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.005 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	7.80e+05	1.02	y 49:37	1.72	923		*	2.5	*	1.004	0.999	1.009
Hepta	PCB-191	2.93e+05	1.20	y 49:52	1.69	352		*	2.5	*	1.009	1.004	1.014
Hepta	PCB-170	5.42e+06	1.02	y 50:51	1.60	8450		*	2.5	*	1.000	0.995	1.005
Hepta	PCB-190	1.43e+06	1.18	y 51:02	2.21	1610		*	2.5	*	1.004	0.998	1.008
Hepta	PCB-189	2.41e+05	1.15	y 52:19	1.55	317		*	2.5	*	1.000	0.995	1.005
Octa	PCB-202	5.87e+05	0.95	y 48:21	1.08	955		*	2.5	*	1.000	0.995	1.005
Octa	PCB-201	3.81e+05	1.02	y 48:50	1.15	584		*	2.5	*	1.010	1.005	1.015
Octa	PCB-204	*	*	n NotF┐	1.14	*		1530	2.5	61.6	*	1.008	1.018
Octa	PCB-197	1.26e+05	0.94	y 49:18	1.07	206		*	2.5	*	1.020	1.015	1.025
Octa	PCB-200	3.57e+05	0.98	y 50:08	1.06	592		*	2.5	*	1.037	1.032	1.044
Octa	PCB-198	8.78e+04	1.01	y 51:25	0.76	205		*	2.5	*	1.064	1.059	1.069
Octa	PCB-199	2.17e+06	0.91	y 51:32	0.80	4790		*	2.5	*	1.066	1.061	1.071
Octa	PCB-196/203	2.40e+06	0.88	y 51:48	0.80	5280		*	2.5	*	1.072	1.066	1.076
Octa	PCB-195	1.43e+06	0.97	y 52:56	1.23	1660		*	2.5	*	0.983	0.979	0.989
Octa	PCB-194	4.02e+06	0.94	y 53:50	1.21	4700		*	2.5	*	1.000	0.995	1.005
Octa	PCB-205	2.15e+05	0.84	y 54:07	1.54	197		*	2.5	*	1.005	1.001	1.011
Nona	PCB-208	5.00e+05	1.37	y 53:04	0.93	643		*	2.5	*	1.000	0.995	1.005
Nona	PCB-207	2.08e+05	1.33	y 53:23	1.08	230		*	2.5	*	1.006	1.001	1.011
Nona	PCB-206	1.19e+06	1.29	y 55:32	1.02	2250		*	2.5	*	1.000	0.995	1.005
Deca	PCB-209	2.93e+05	1.03	y 56:51	1.17	498		*	2.5	*	1.000	0.995	1.005

Analyst: DMS

Date: 2/10/15

Client ID: AS-CB-UNR-20150120-S Filename: 150205E1 S:10 Acq: 5-FEB-15 18:36:06 ConCal: ST150205E1-1
Lab ID: 1500108-03@10X GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 2.0047 EndCAL: NA

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	7.55e+05	2.78	y	16:11	1.27	295.952	
Total Di-PCB	2.60e+07	1.66	y	20:07	1.21	11377.5	
Total Tri-PCB	1.22e+07	1.15	y	24:16	1.10	8902.15	
Total Tri-PCB	3.86e+07	0.94	y	27:57	1.21	15921.4	Sum:24823.5
Total Tetra-PCB	6.12e+07	0.70	y	28:01	1.09	43801.6	
Total Penta-PCB	9.13e+07	1.34	y	33:58	1.18	103414	
Total Penta-PCB	8.67e+06	1.35	y	42:15	1.25	5726.72	Sum:109141
Total Hexa-PCB	2.16e+07	1.22	y	39:36	0.90	43858.5	
Total Hexa-PCB	1.10e+08	1.23	y	42:12	1.11	92506.0	Sum:136365
Total Hepta-PCB	5.72e+07	1.08	y	44:08	1.42	77416.8	
Total Octa-PCB	6.11e+06	0.95	y	48:21	0.96	12606.3	
Total Octa-PCB	5.67e+06	0.97	y	52:56	1.33	6557.66	Sum:19164.0
Total Nona-PCB	1.89e+06	1.37	y	53:04	1.01	3122.08	
Total Deca-PCB	2.93e+05	1.03	y	56:51	1.17	497.660	

Total PCB Conc:427053 918498
426000

Integrations
by
Analyst: DMS

Date: 2/10/15

Name	Resp	RA	RRF	RT	RRT	LCL	UCL		Conc	Rec
13C-PCB-1	2.00e+07	3.20 y	0.87	16:10	0.623	0.629-	0.635	*	9470	94.9
13C-PCB-3	2.05e+07	3.54 y	0.91	18:46	0.723	0.725-	0.733	↓	9250	92.7
13C-PCB-4	1.28e+07	1.62 y	0.59	20:06	0.774	0.775-	0.783	↓	8990	90.1
13C-PCB-9	1.94e+07	1.57 y	0.90	21:53	0.843	0.842-	0.850		8940	89.6
13C-PCB-11	2.02e+07	1.58 y	0.94	25:15	0.973	0.968-	0.978		8860	88.8
13C-PCB-19	1.07e+07	1.06 y	0.53	24:14	0.934	0.930-	0.940		8290	83.1
13C-PCB-28	1.87e+07	0.92 y	0.93	29:07	1.003	0.999-	1.009		9910	99.3
13C-PCB-32	1.58e+07	1.08 y	0.80	27:09	1.046	1.040-	1.050		8200	82.2
13C-PCB-37	1.73e+07	1.06 y	0.84	32:60	1.137	1.131-	1.143		10200	102
13C-PCB-47	1.23e+07	0.80 y	0.81	32:02	0.870	0.866-	0.874		9090	91.1
13C-PCB-52	1.15e+07	0.79 y	0.77	31:31	0.856	0.853-	0.861		8960	89.8
13C-PCB-54	1.42e+07	0.83 y	0.97	27:59	0.761	0.758-	0.766		8740	87.6
13C-PCB-70	1.54e+07	0.77 y	1.00	35:33	0.966	0.961-	0.971		9240	92.6
13C-PCB-77	1.46e+07	0.78 y	0.94	39:41	1.078	1.073-	1.083		9260	92.8
13C-PCB-80	1.61e+07	0.82 y	1.03	35:59	0.978	0.972-	0.982		9370	93.9
13C-PCB-81	1.42e+07	0.78 y	0.92	39:05	1.062	1.057-	1.067		9210	92.3
13C-PCB-95	6.41e+06	1.55 y	0.74	35:51	0.913	0.908-	0.918		8600	86.2
13C-PCB-97	6.46e+06	1.66 y	0.70	38:50	0.989	0.984-	0.994		9110	91.3
13C-PCB-101	7.03e+06	1.50 y	0.78	37:32	0.956	0.951-	0.961		8920	89.4
13C-PCB-104	9.10e+06	1.54 y	1.00	32:41	0.832	0.828-	0.836		9030	90.5
13C-PCB-105	1.18e+07	1.60 y	1.37	43:07	0.929	0.924-	0.934		8930	89.5
13C-PCB-114	1.14e+07	1.57 y	1.36	42:15	0.910	0.905-	0.915		8670	86.9
13C-PCB-118	8.41e+06	1.68 y	0.96	41:35	1.059	1.054-	1.064		8710	87.3
13C-PCB-123	8.16e+06	1.61 y	0.89	41:25	1.054	1.050-	1.060		9070	90.9
13C-PCB-126	1.07e+07	1.54 y	1.31	45:22	0.977	0.972-	0.982		8480	85.0
13C-PCB-127	1.26e+07	1.59 y	1.47	43:27	0.936	0.931-	0.941		8800	88.3
13C-PCB-138	9.67e+06	1.26 y	1.10	44:51	0.966	0.961-	0.971		9080	91.1
13C-PCB-141	9.10e+06	1.17 y	1.07	44:01	0.948	0.943-	0.953		8750	87.7
13C-PCB-153	1.00e+07	1.29 y	1.15	43:16	0.932	0.927-	0.937		9050	90.7
13C-PCB-155	6.16e+06	1.28 y	0.84	37:05	0.944	0.939-	0.949		7300	73.1
13C-PCB-156	1.09e+07	1.27 y	1.30	48:08	1.037	1.032-	1.042		8680	87.0
13C-PCB-157	1.14e+07	1.30 y	1.36	48:24	1.043	1.038-	1.048		8690	87.1
13C-PCB-159	1.05e+07	1.33 y	1.25	46:09	0.994	0.989-	0.999		8720	87.4
13C-PCB-167	1.15e+07	1.24 y	1.35	46:50	1.009	1.004-	1.014		8800	88.3
13C-PCB-169	9.93e+06	1.28 y	1.29	50:30	1.088	1.083-	1.093		7980	80.0
13C-PCB-170	4.00e+06	0.46 y	0.54	50:51	1.095	1.089-	1.101		7620	76.4
13C-PCB-180	4.91e+06	0.49 y	0.68	49:26	1.065	1.060-	1.070		7420	74.4
13C-PCB-188	7.11e+06	0.48 y	0.92	42:54	0.924	0.919-	0.929		8010	80.3
13C-PCB-189	4.90e+06	0.48 y	0.72	52:19	1.127	1.120-	1.132		7070	70.8
13C-PCB-194	7.04e+06	0.93 y	0.80	53:50	0.995	0.990-	1.000		9510	95.3
13C-PCB-202	5.67e+06	0.91 y	0.84	48:20	1.041	1.036-	1.046		6990	70.0
13C-PCB-206	5.14e+06	0.80 y	0.65	55:31	1.026	1.021-	1.031		8520	85.4
13C-PCB-208	8.33e+06	0.77 y	1.08	53:04	0.981	0.976-	0.986		8300	83.2
13C-PCB-209	5.02e+06	1.18 y	0.61	56:51	1.051	1.045-	1.055		8860	88.8

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.68e+07	0.79 y	1.02	37:52	1.029	1.023-	1.034	9890	99.1
13C-PCB-178	5.23e+06	0.50 y	0.61	45:42	0.984	0.979-	0.990	8810	88.3

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.68e+07	0.79 y	1.10	37:52	0.969	0.964-	0.974	10700	107
13C-PCB-178	5.23e+06	0.50 y	0.90	45:42	0.925	0.920-	0.930	11800	119

* = OK within 1668 METHOD limits

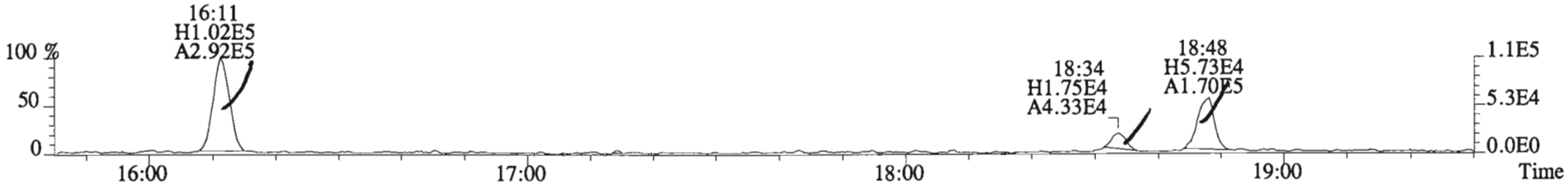
RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	2.42e+07	1.60	y	1.00	25:58	9980
13C-PCB-31	2.02e+07	1.21	n	1.00	29:01	9980
13C-PCB-60	1.67e+07	0.82	y	1.00	36:48	9980
13C-PCB-111	1.00e+07	1.57	y	1.00	39:17	9980
13C-PCB-128	9.66e+06	1.31	y	1.00	46:25	9980
13C-PCB-205	9.26e+06	0.91	y	1.00	54:07	9980

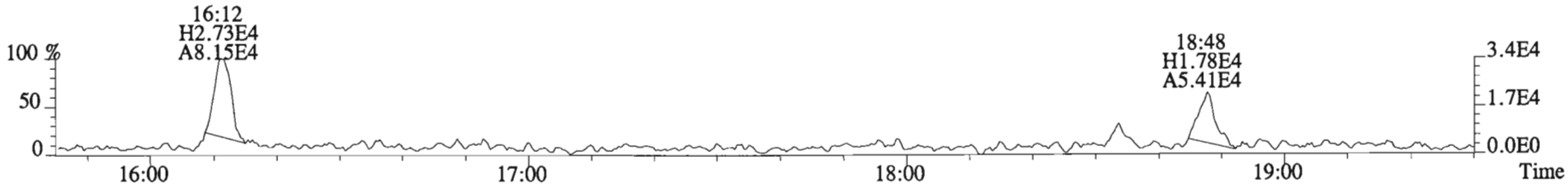
Analyst: DMS

Date: 2/10/15

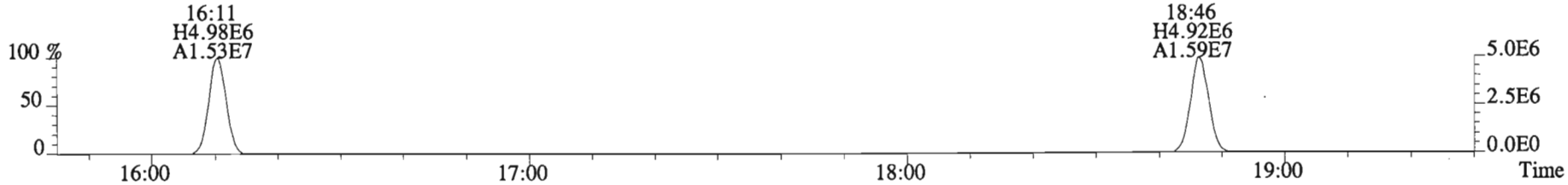
File:150205E1 #1-729 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
188.0393 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2708.0,0.00%,F,F)



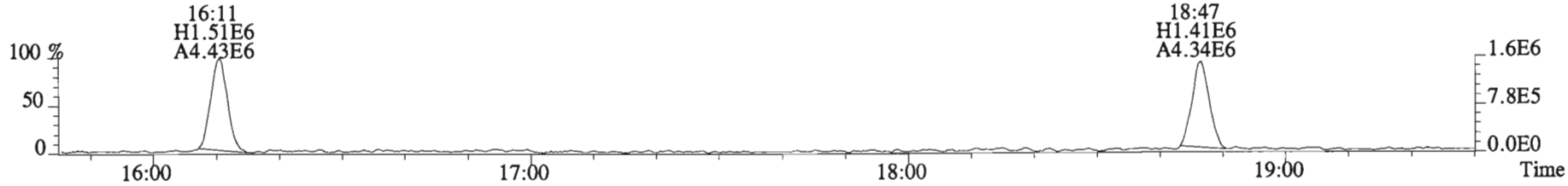
190.0363 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3468.0,0.00%,F,F)



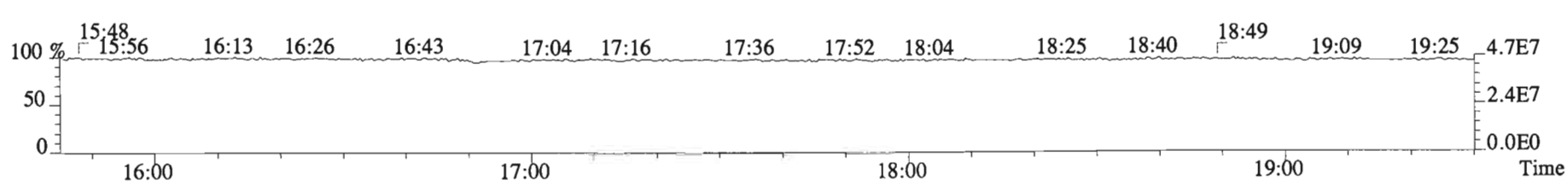
200.0795 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4568.0,0.00%,F,F)



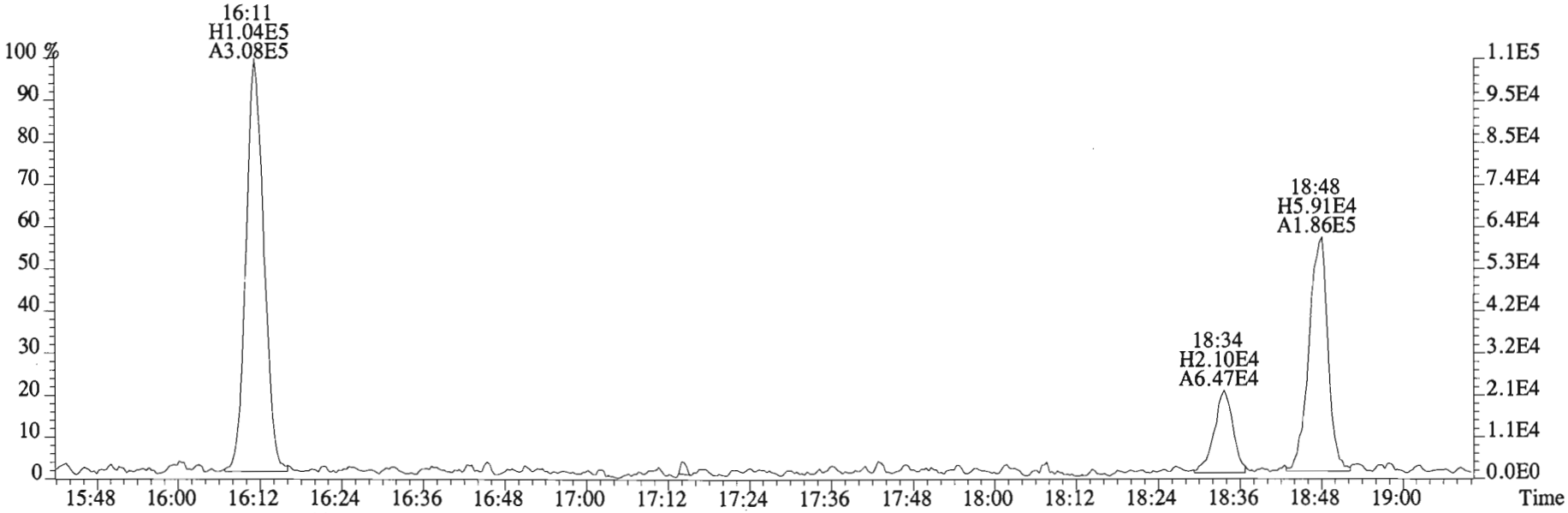
202.0766 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,53052.0,0.00%,F,F)



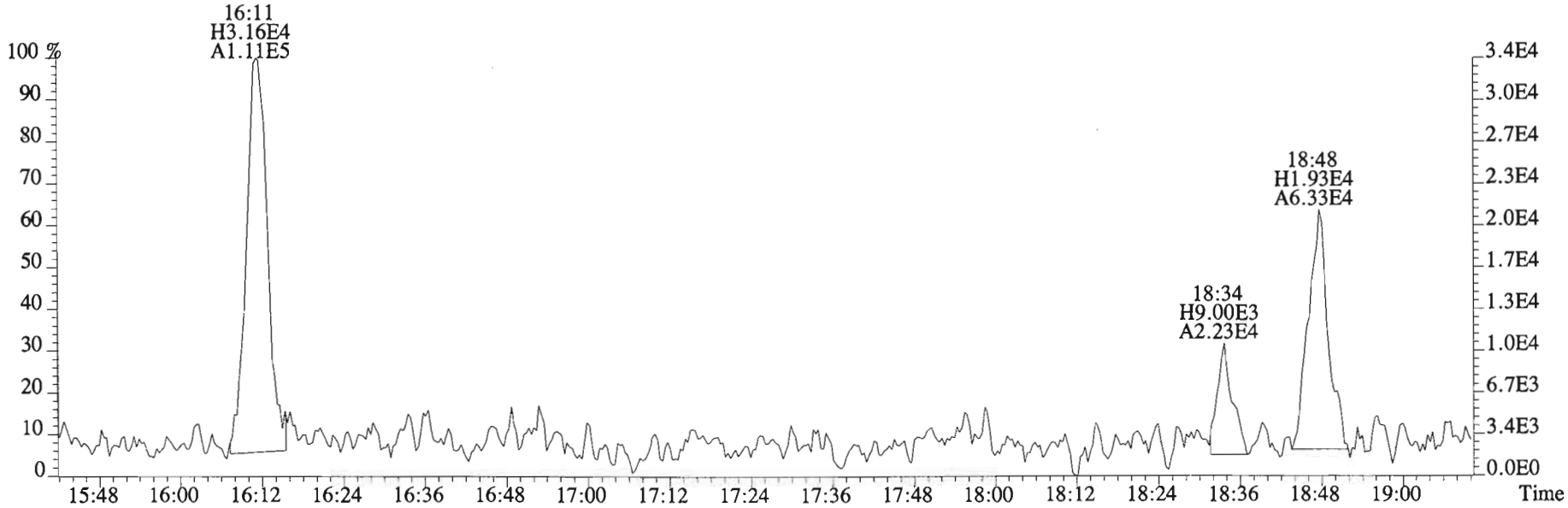
180.9880 S:10



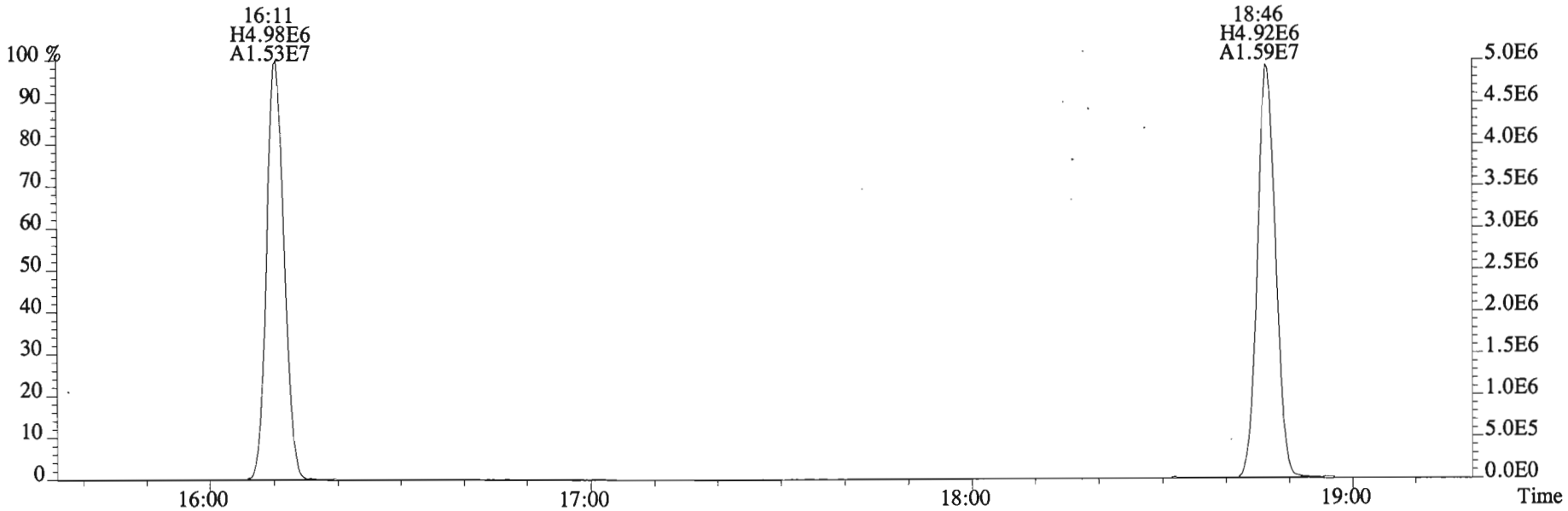
File:150205E1 #1-729 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
188.0393 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2708.0,0.00%,F,F)



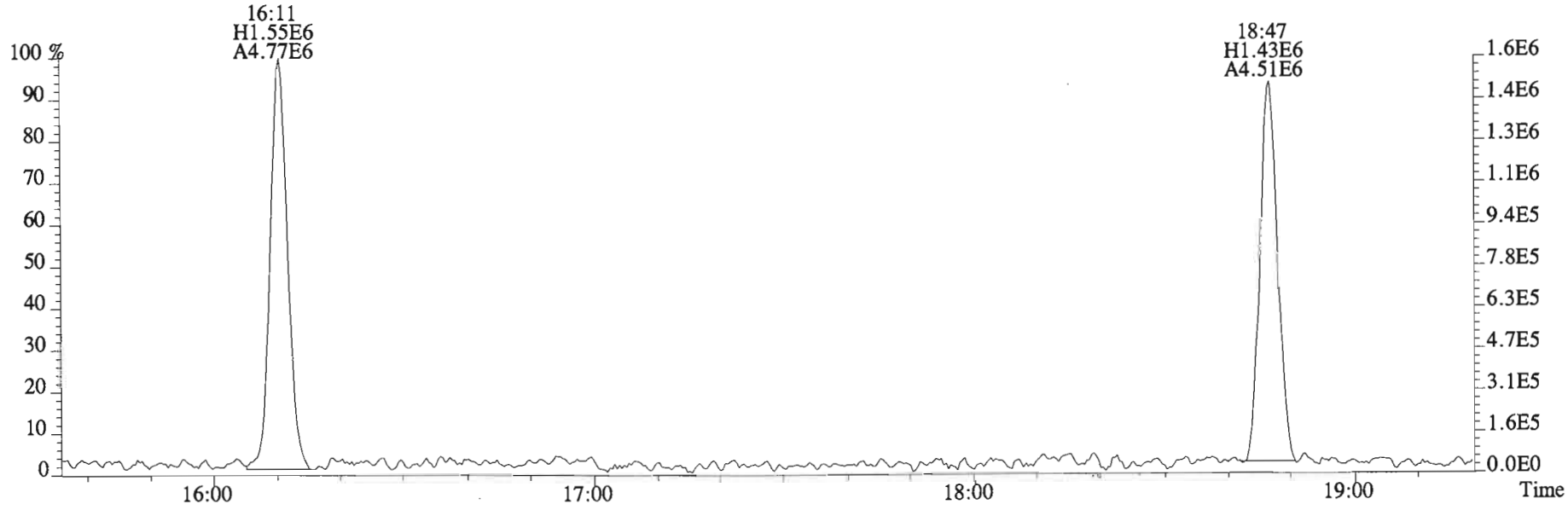
190.0363 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2468.0,0.00%,F,F)



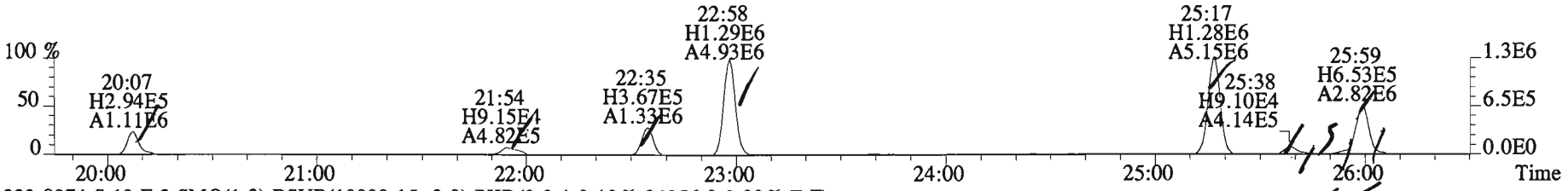
File:150205E1 #1-729 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
200.0795 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4568.0,0.00%,F,F)



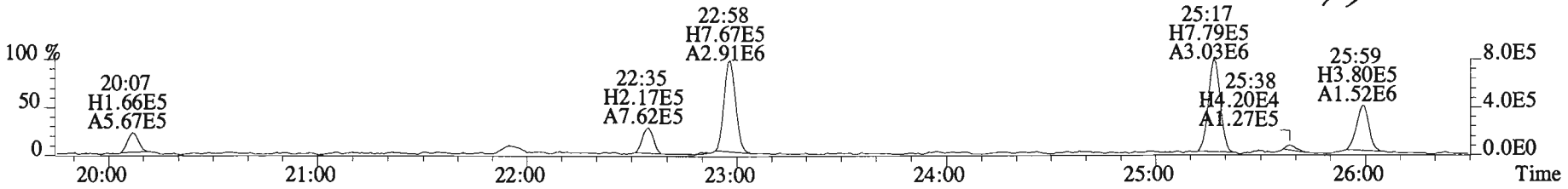
202.0766 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,53052.0,0.00%,F,F)



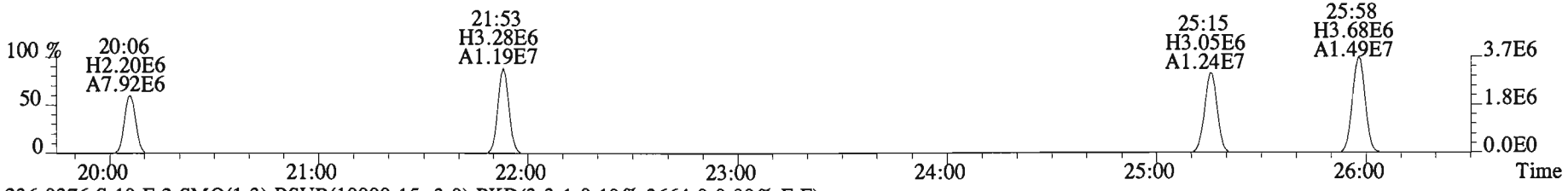
File:150205E1 #1-757 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
222.0003 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3200.0,0.00%,F,F)



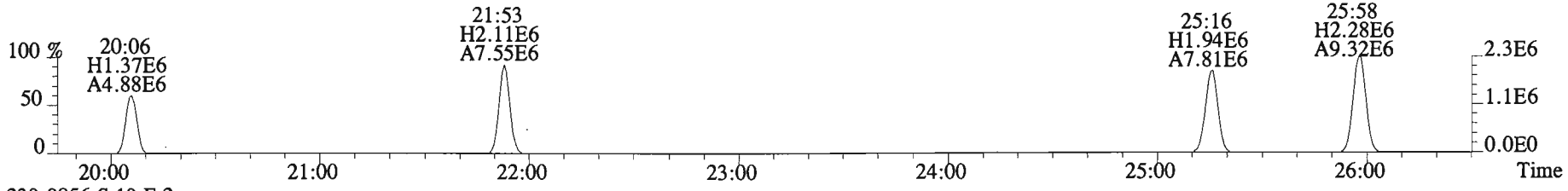
223.9974 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24256.0,0.00%,F,F)



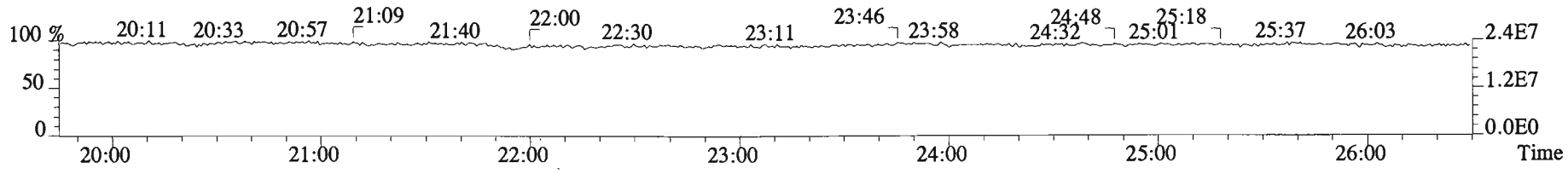
234.0406 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3640.0,0.00%,F,F)



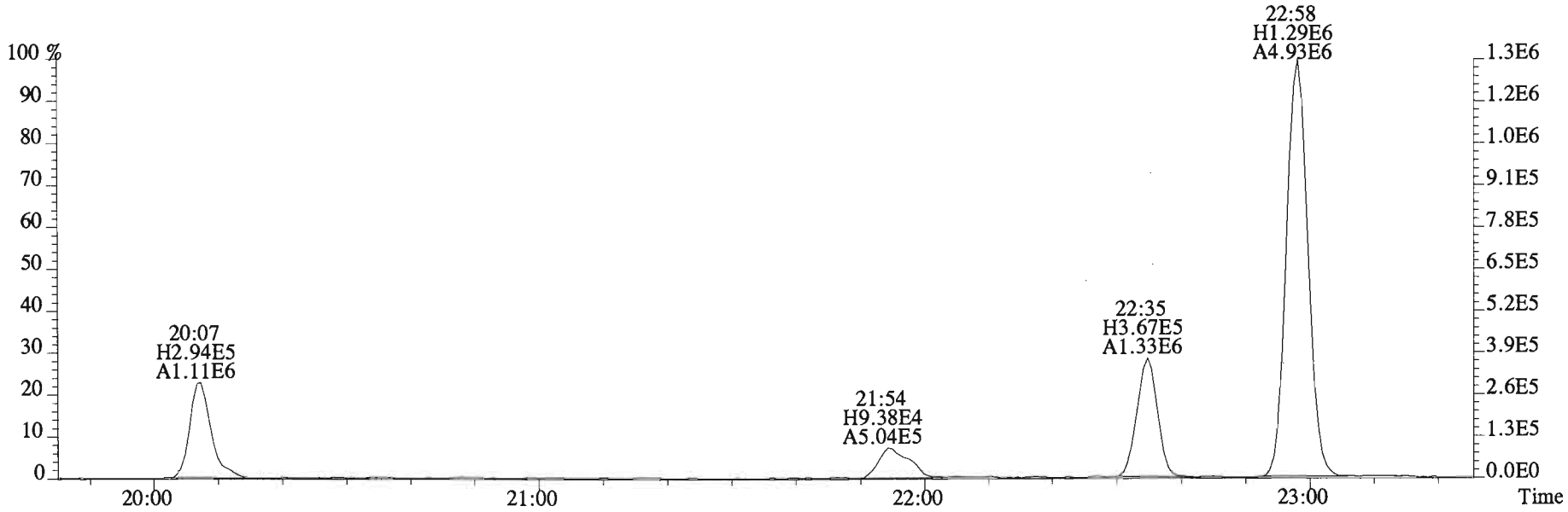
236.0376 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3664.0,0.00%,F,F)



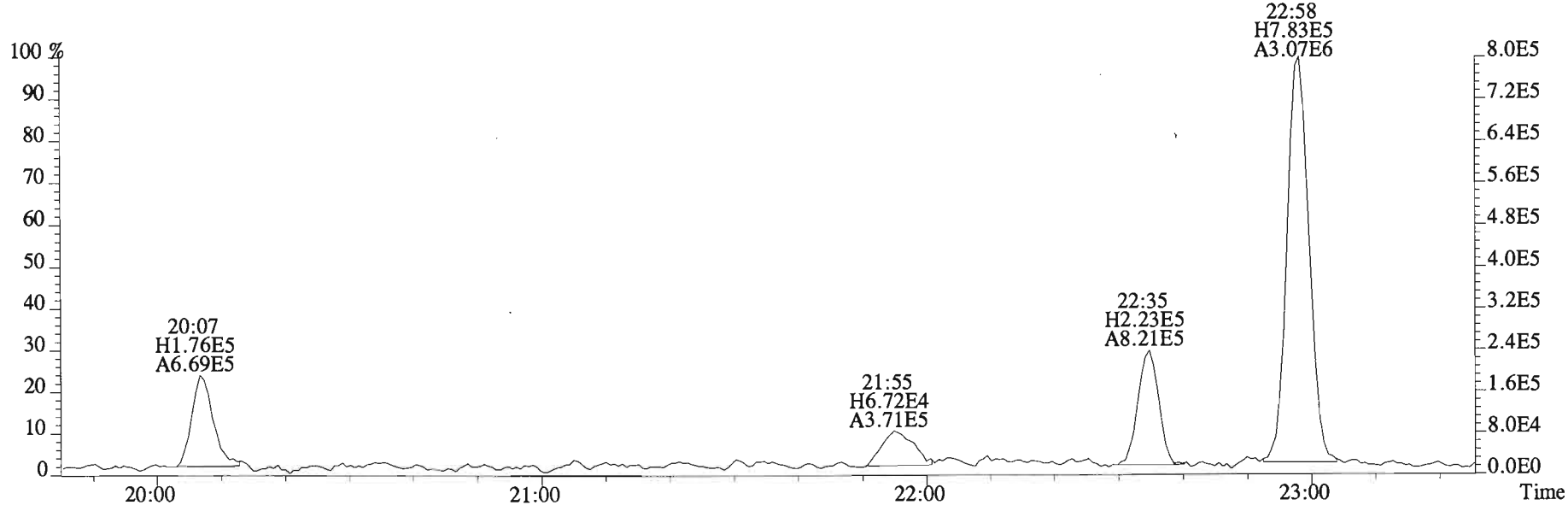
230.9856 S:10 F:2



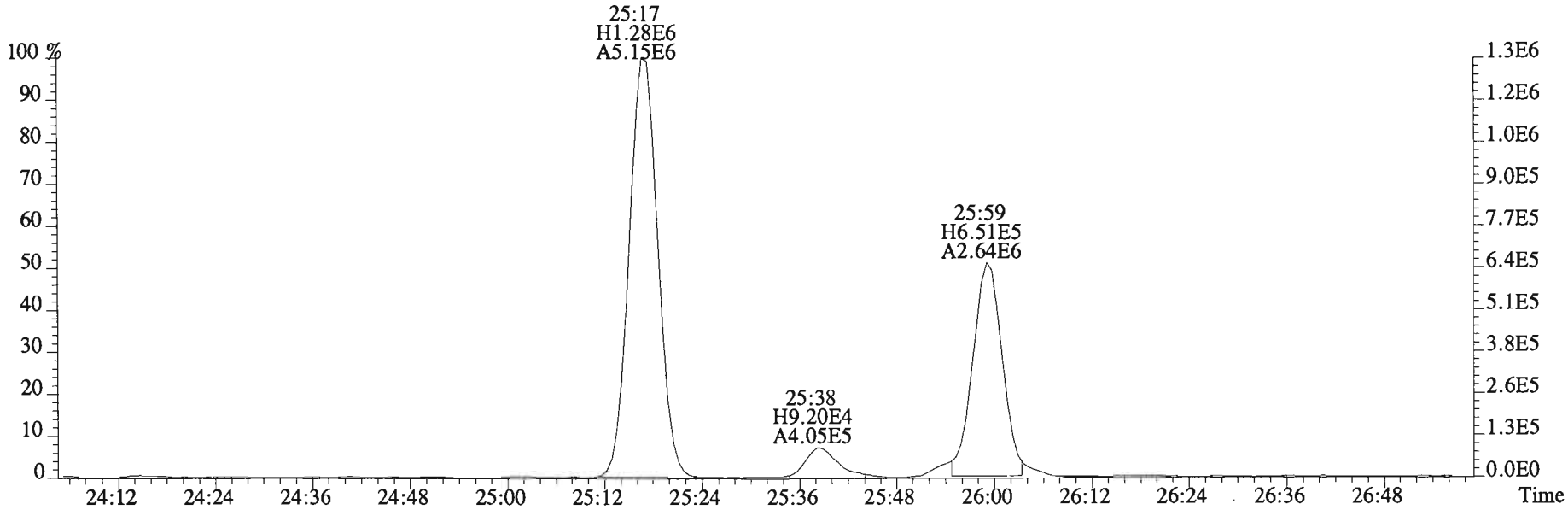
File:150205E1 #1-757 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
222.0003 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3200.0,0.00%,F,F)



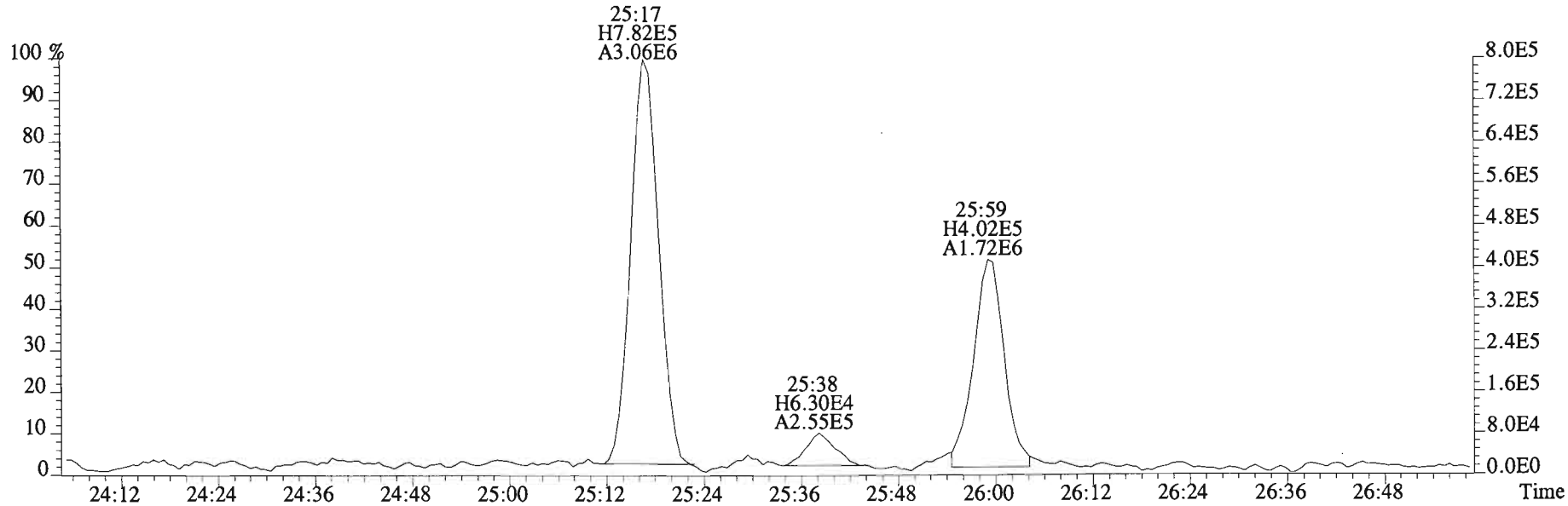
223.9974 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24256.0,0.00%,F,F)



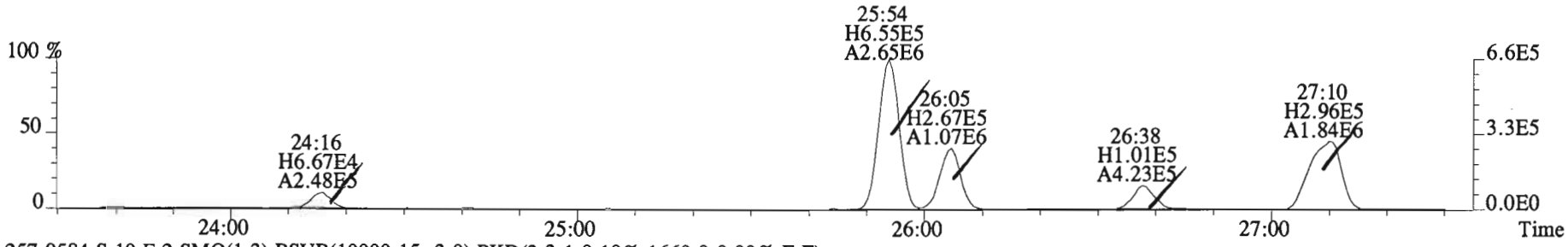
File:150205E1 #1-757 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
222.0003 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3200.0,0.00%,F,F)



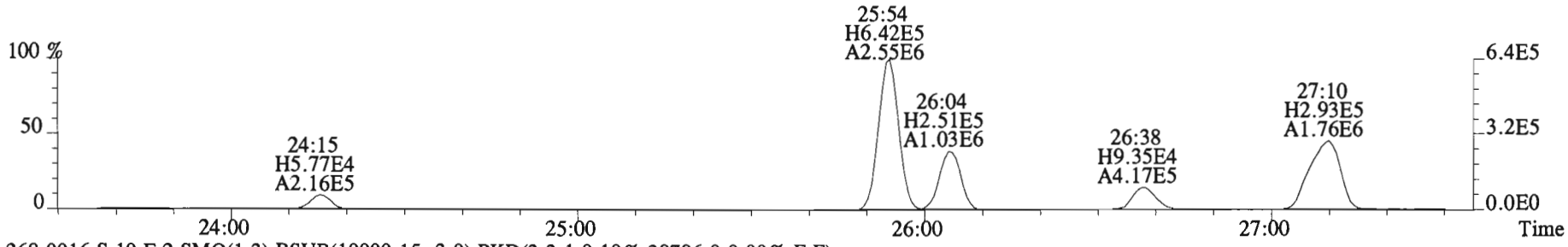
223.9974 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,24256.0,0.00%,F,F)



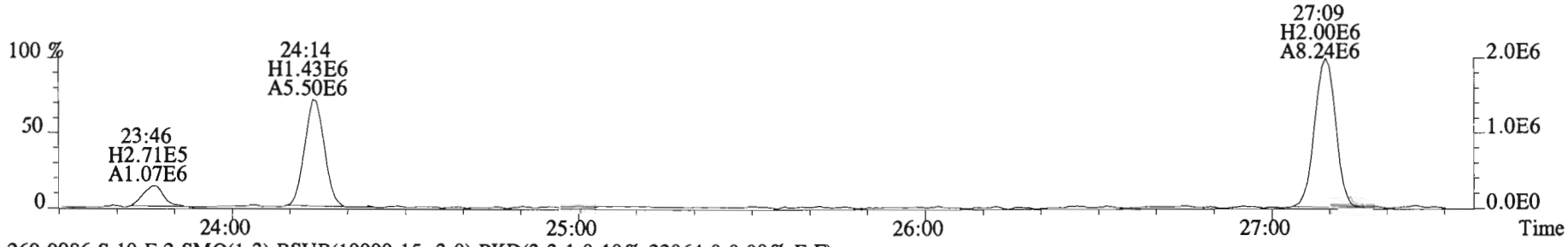
File:150205E1 #1-757 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
255.9613 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3120.0,0.00%,F,F)



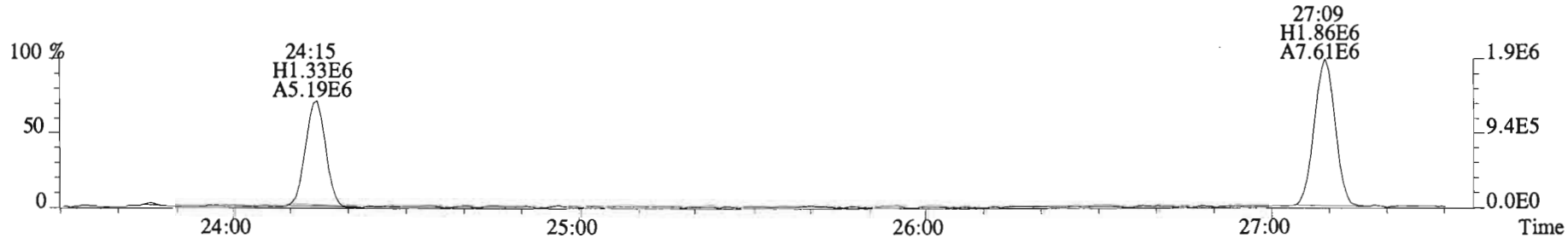
257.9584 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1660.0,0.00%,F,F)



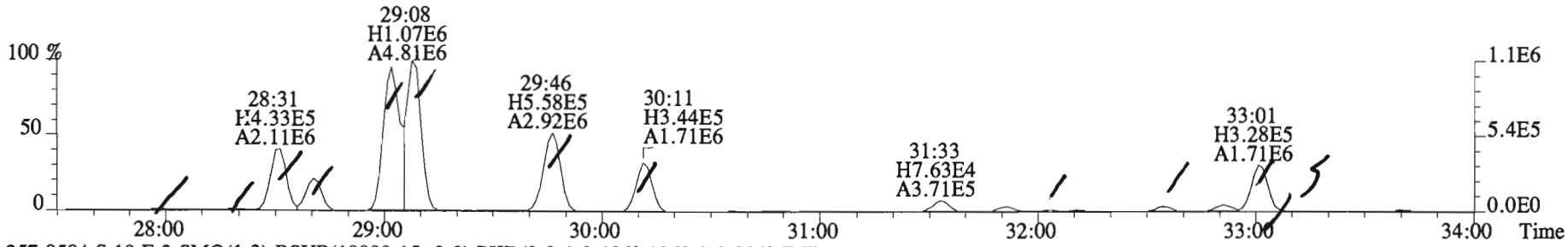
268.0016 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,29796.0,0.00%,F,F)



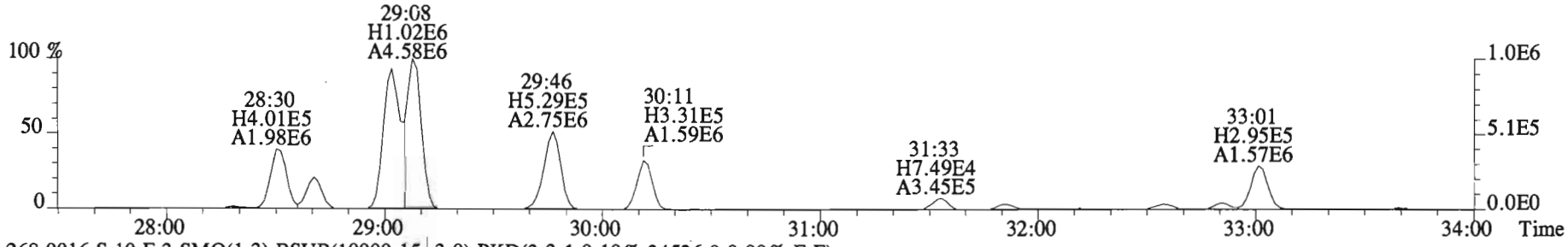
269.9986 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,22064.0,0.00%,F,F)



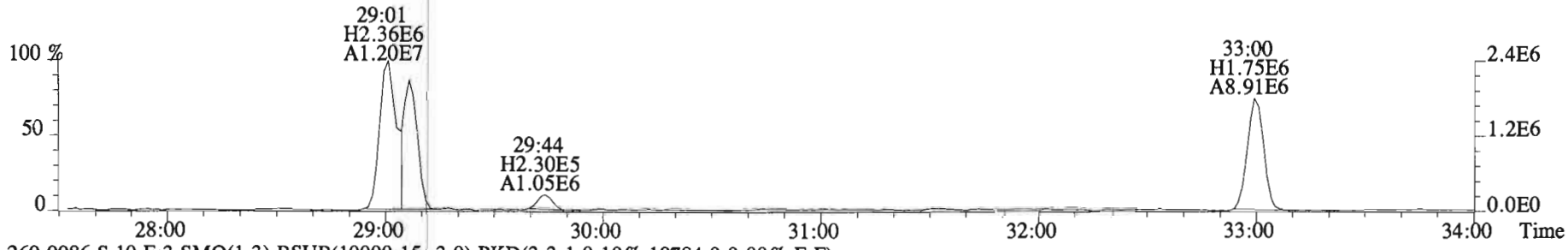
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
255.9613 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2852.0,0.00%,F,F)



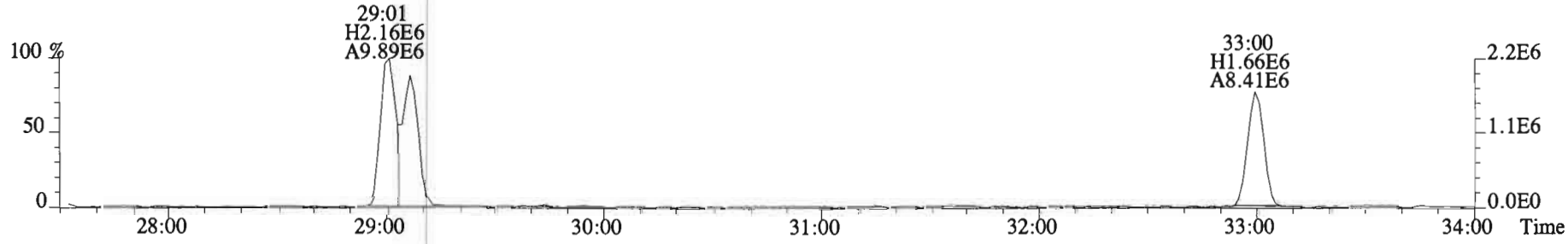
257.9584 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1960.0,0.00%,F,F)



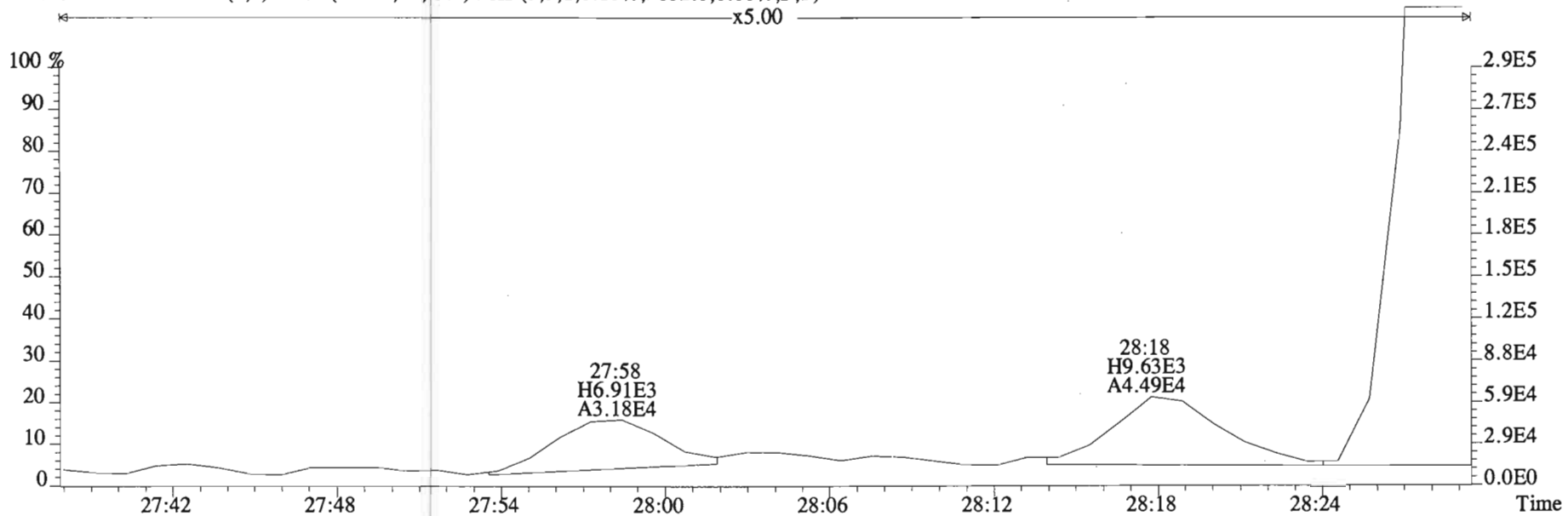
268.0016 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,34536.0,0.00%,F,F)



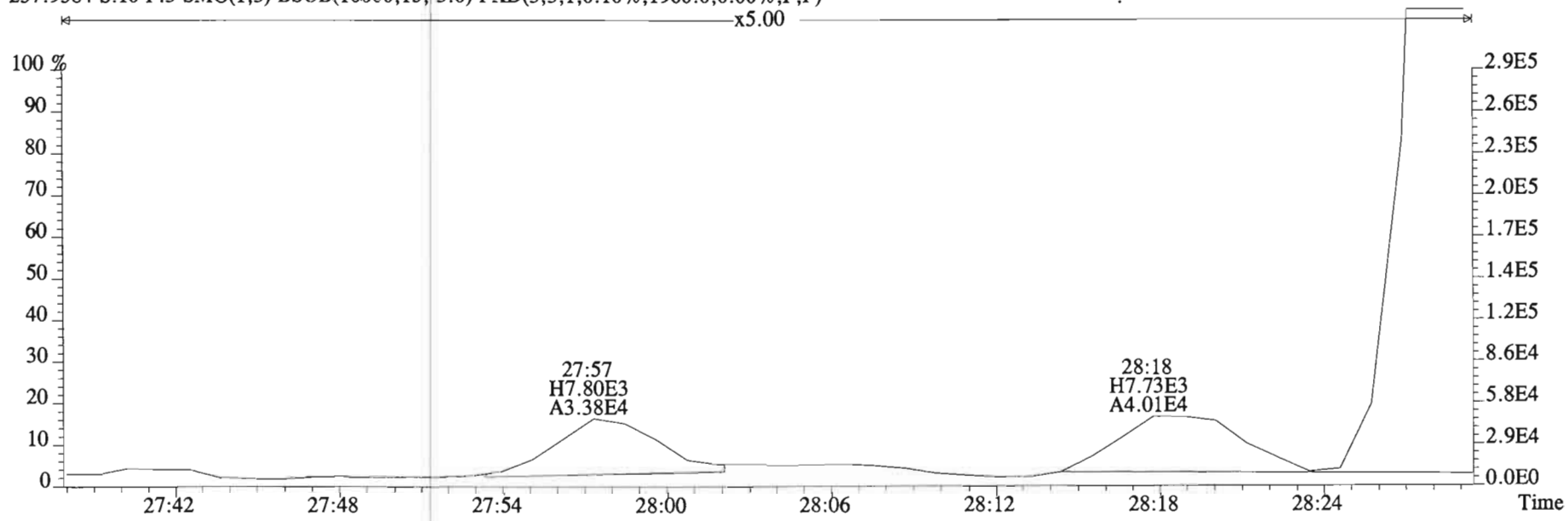
269.9986 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19784.0,0.00%,F,F)



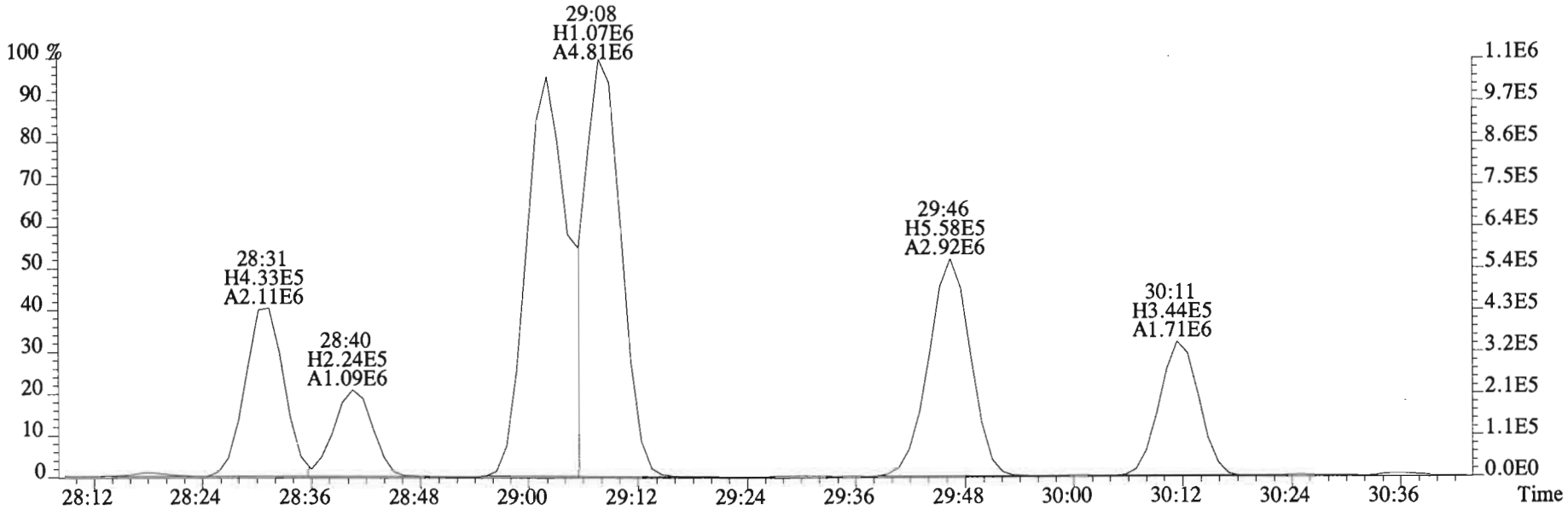
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
255.9613 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2852.0,0.00%,F,F)



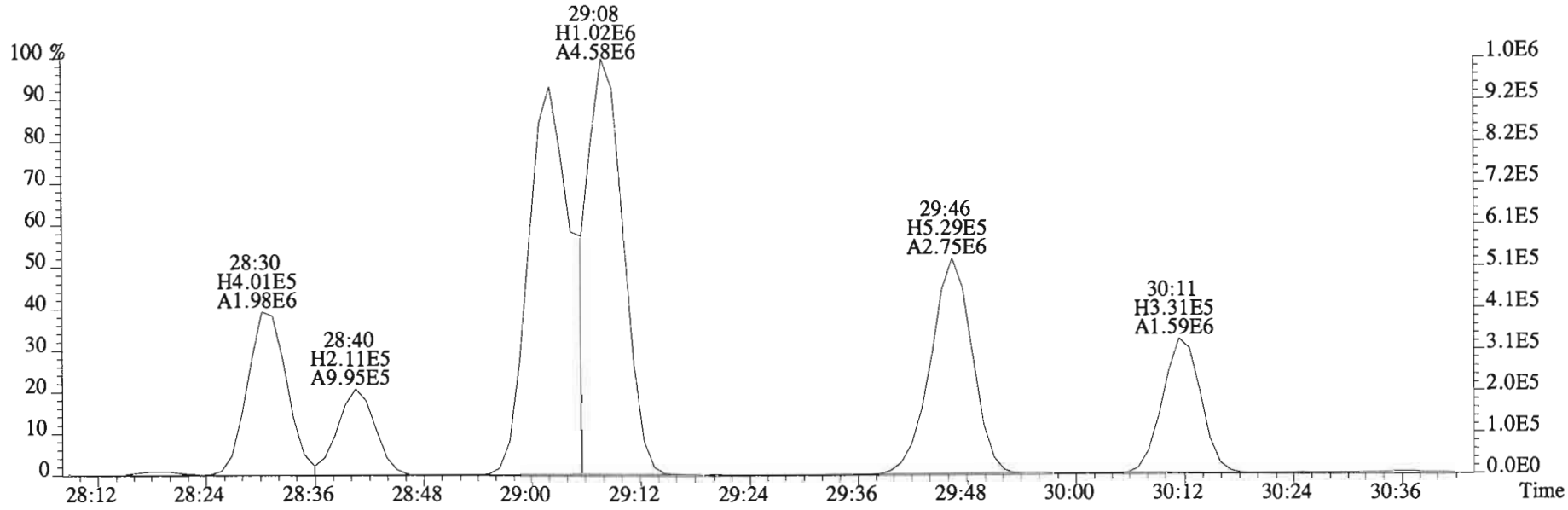
257.9584 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1960.0,0.00%,F,F)



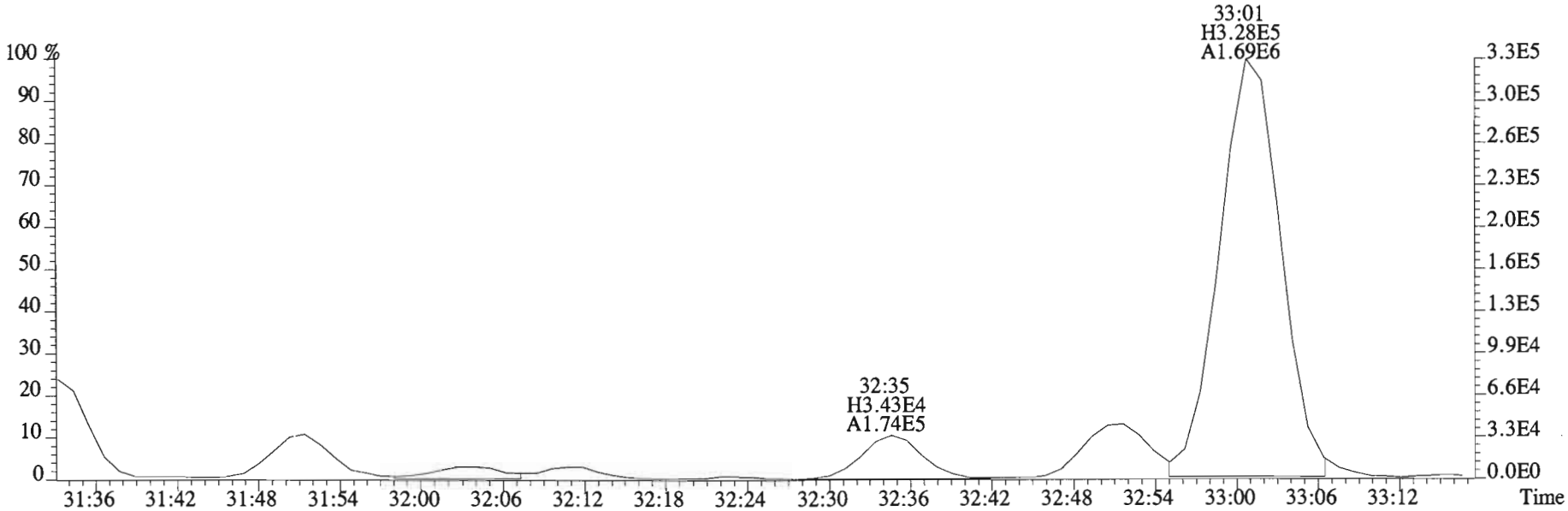
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
255.9613 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2852.0,0.00%,F,F)



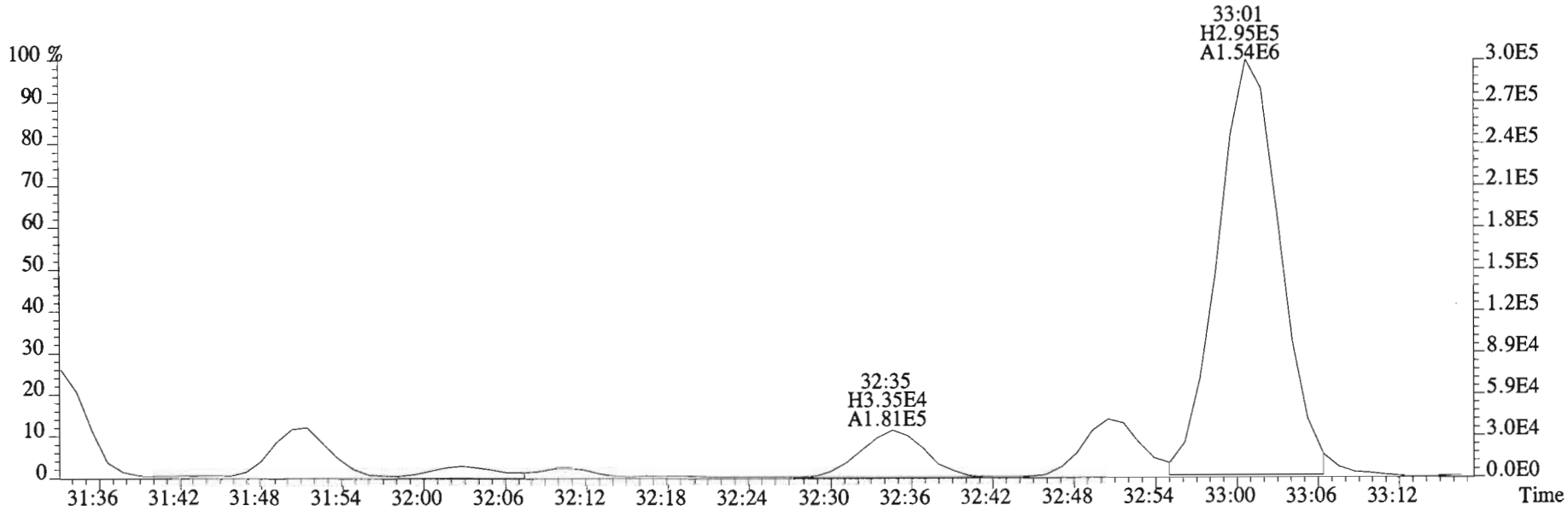
257.9584 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1960.0,0.00%,F,F)



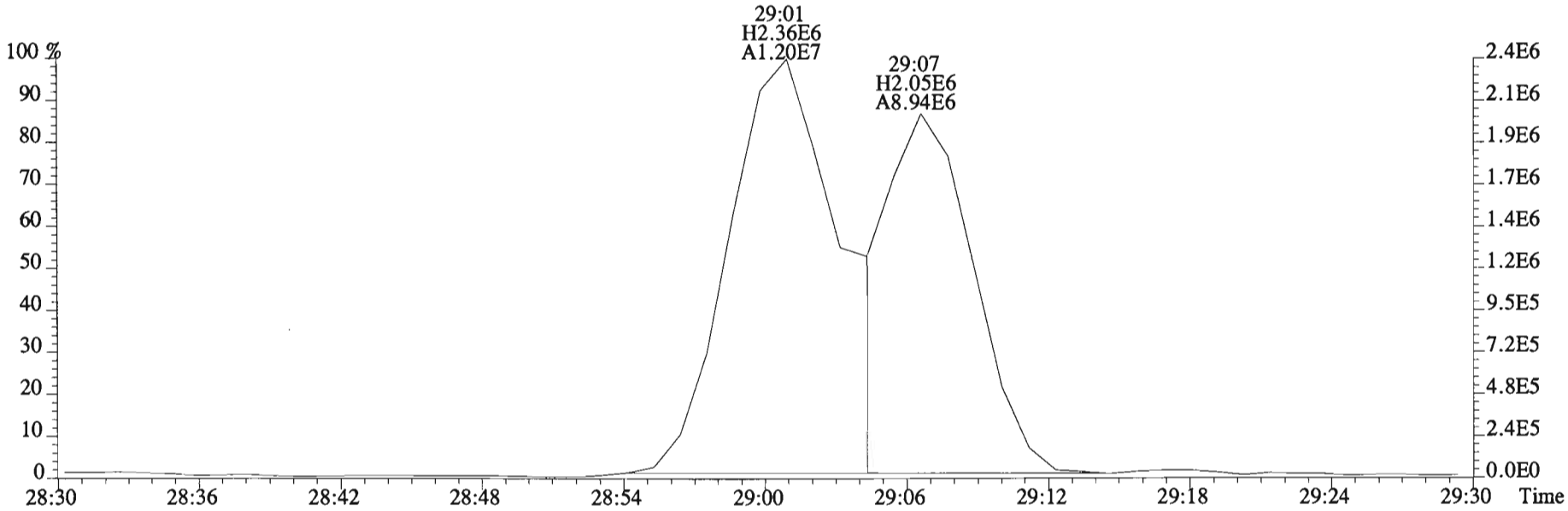
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
255.9613 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2852.0,0.00%,F,F)



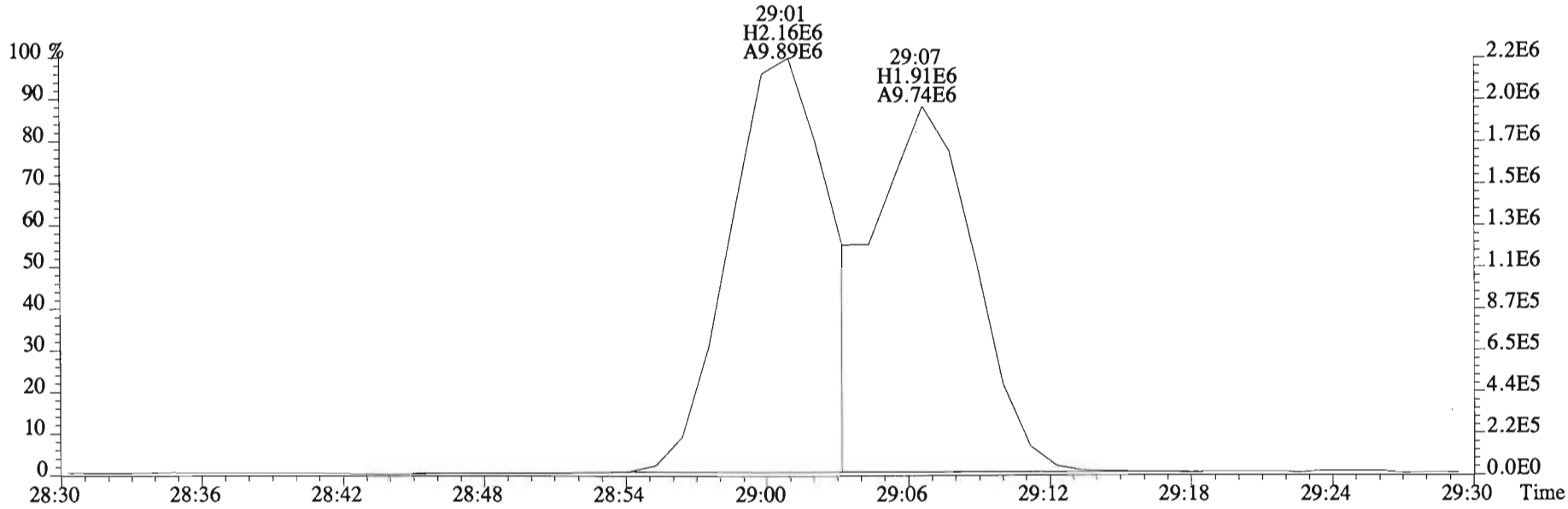
257.9584 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1960.0,0.00%,F,F)



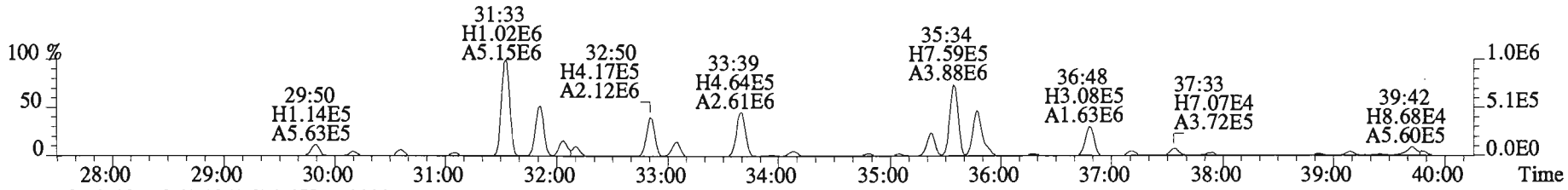
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
268.0016 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,34536.0,0.00%,F,F)



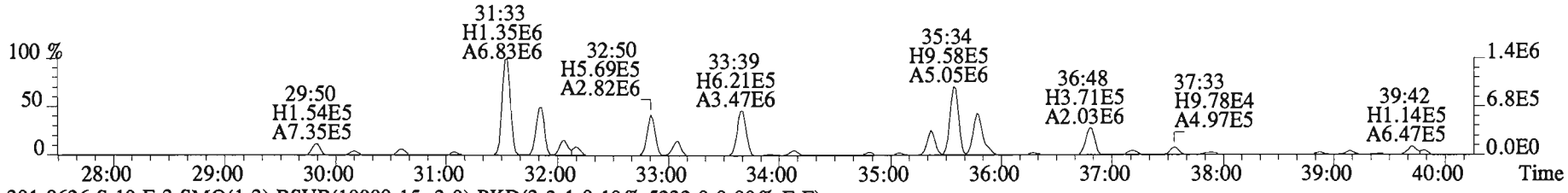
269.9986 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19784.0,0.00%,F,F)



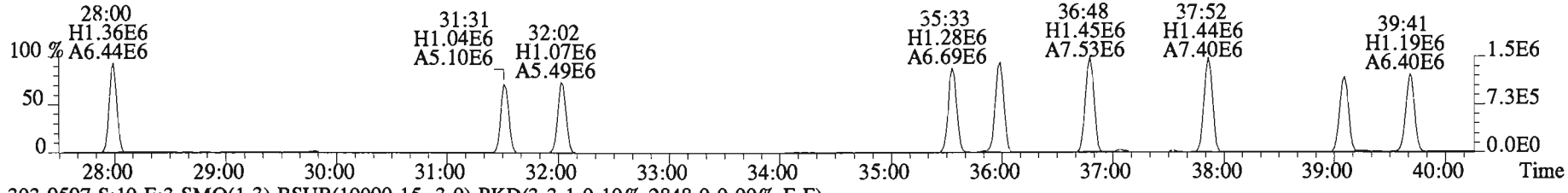
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2456.0,0.00%,F,F)



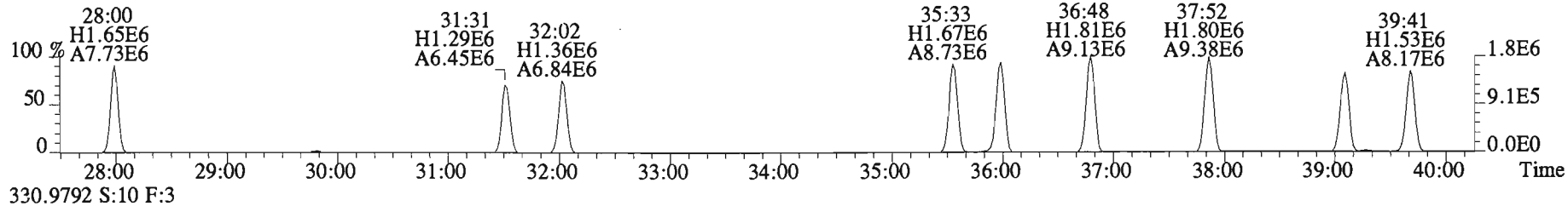
291.9194 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2404.0,0.00%,F,F)



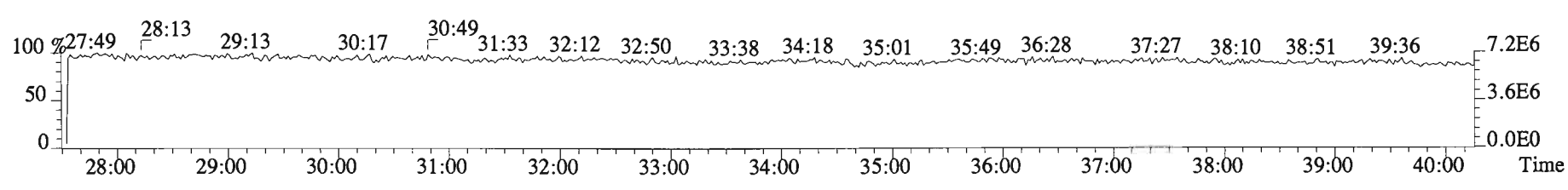
301.9626 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5232.0,0.00%,F,F)



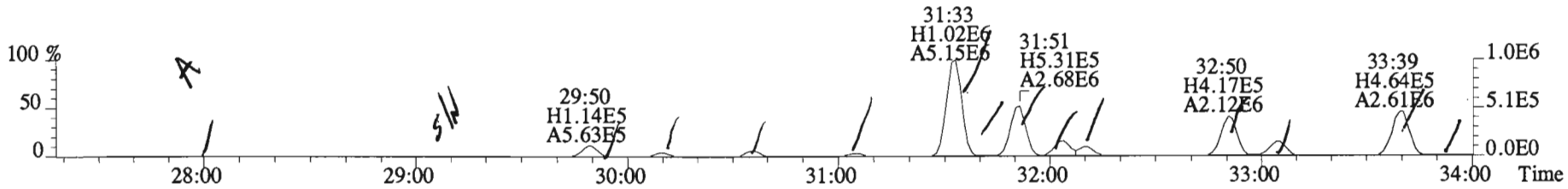
303.9597 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2848.0,0.00%,F,F)



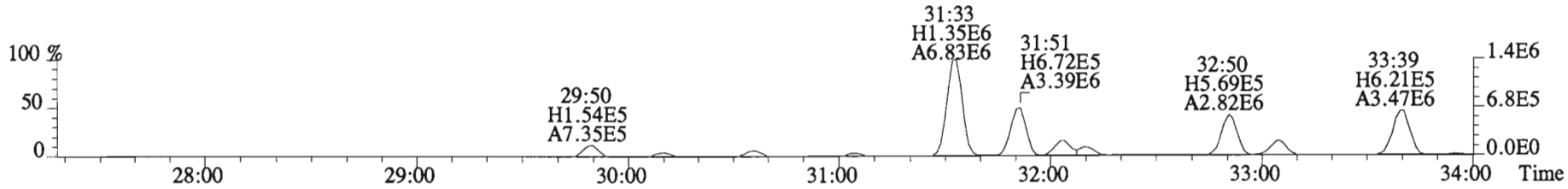
330.9792 S:10 F:3



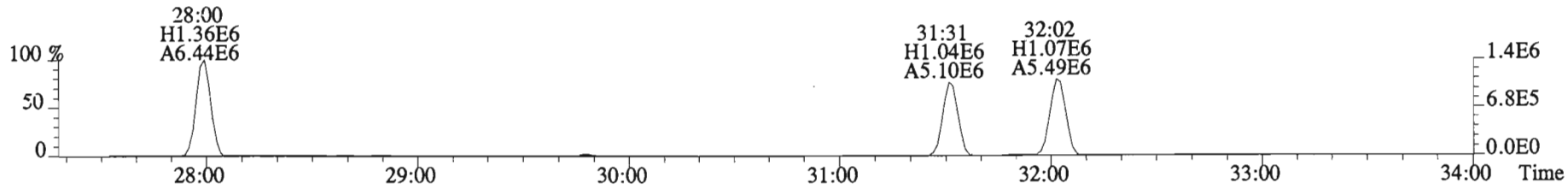
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2456.0,0.00%,F,F)



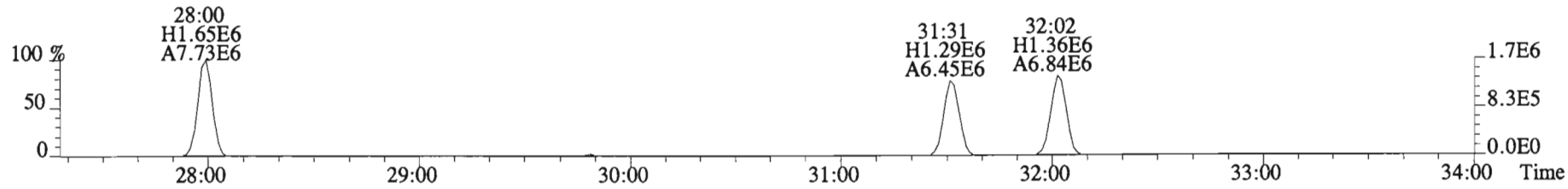
291.9194 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2404.0,0.00%,F,F)



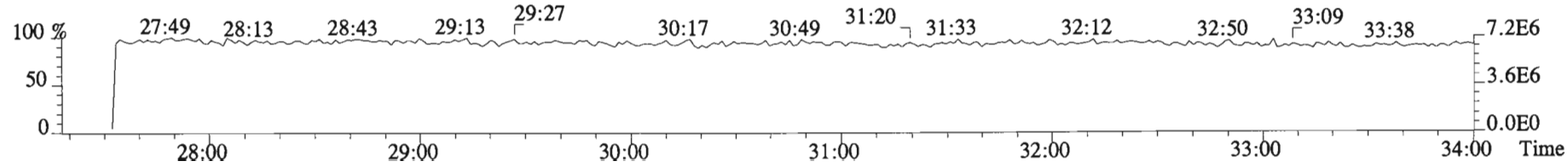
301.9626 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5232.0,0.00%,F,F)



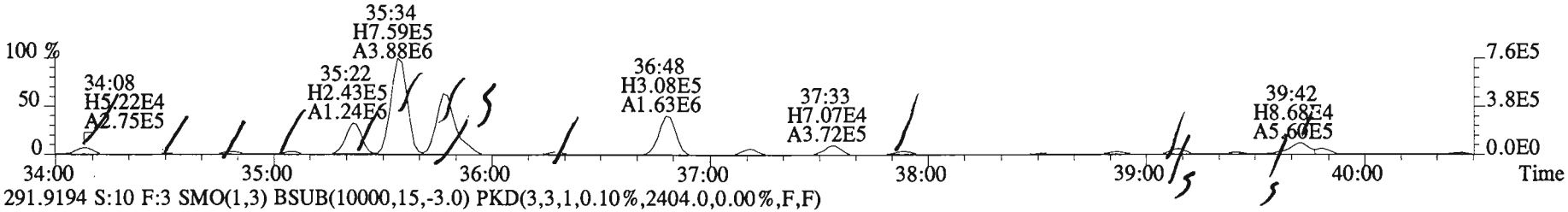
303.9597 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2848.0,0.00%,F,F)



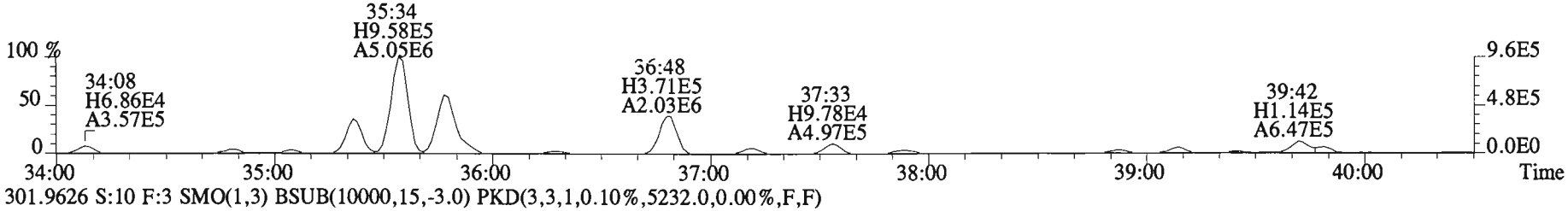
330.9792 S:10 F:3



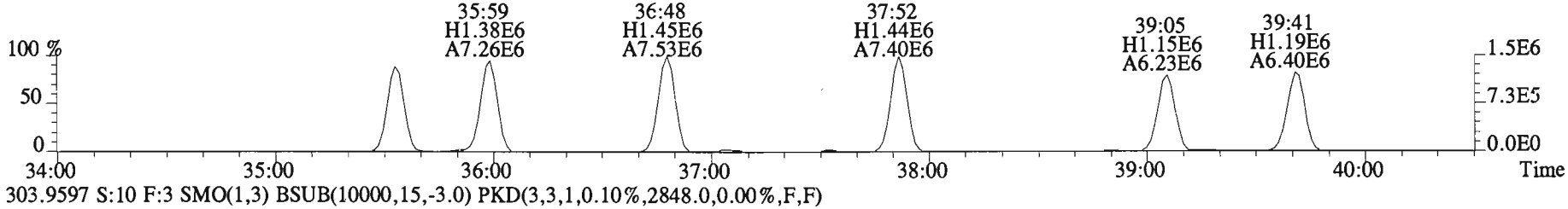
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2456.0,0.00%,F,F)



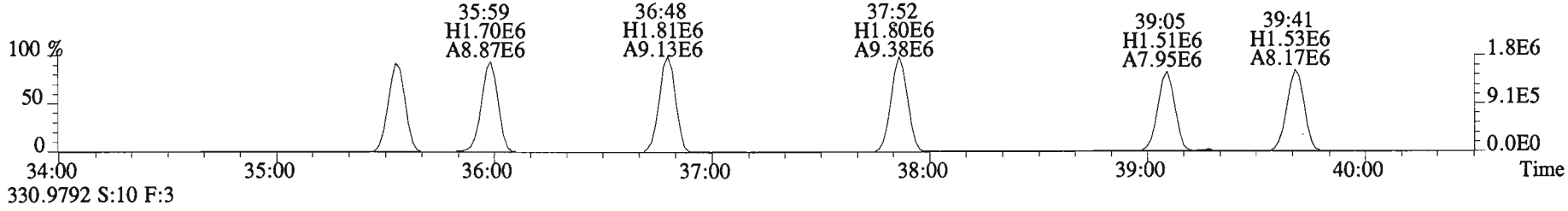
291.9194 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2404.0,0.00%,F,F)



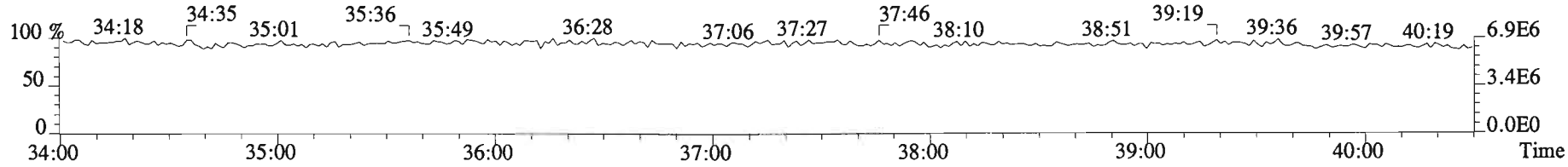
301.9626 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5232.0,0.00%,F,F)



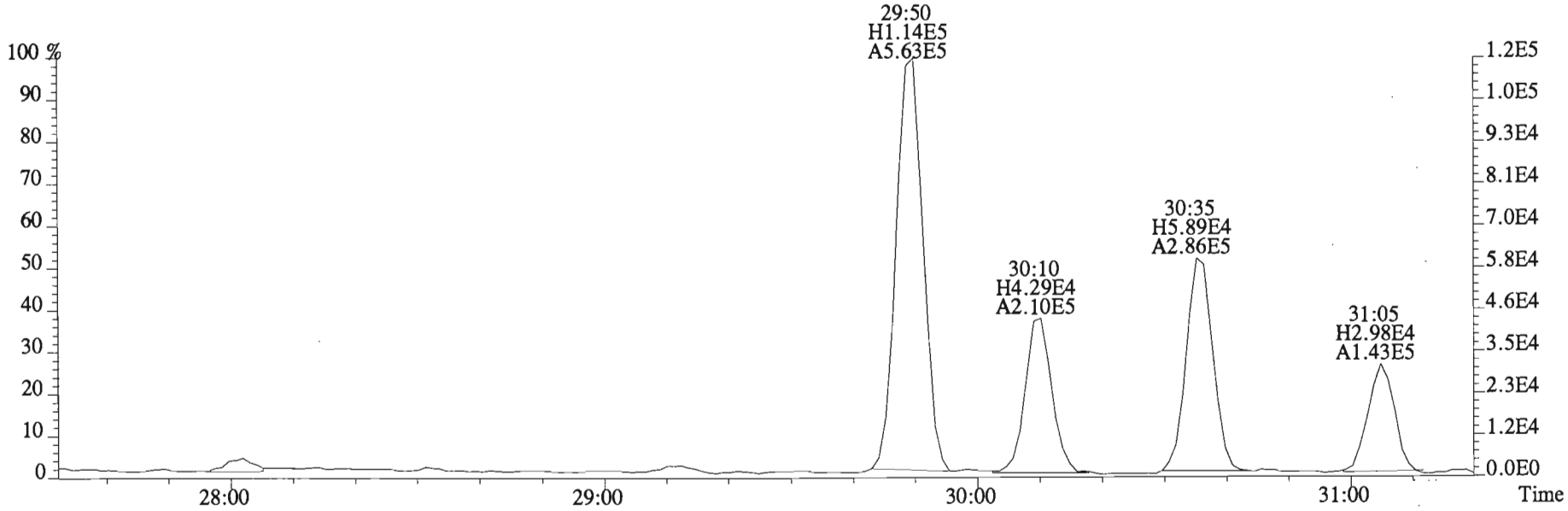
303.9597 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2848.0,0.00%,F,F)



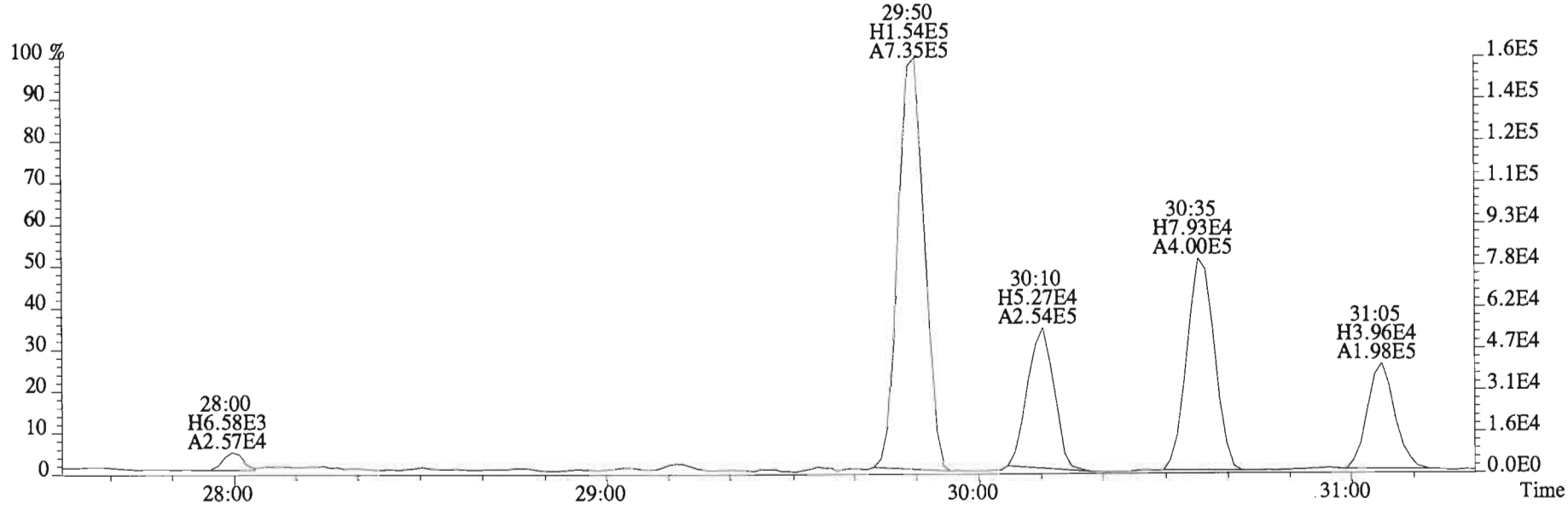
330.9792 S:10 F:3

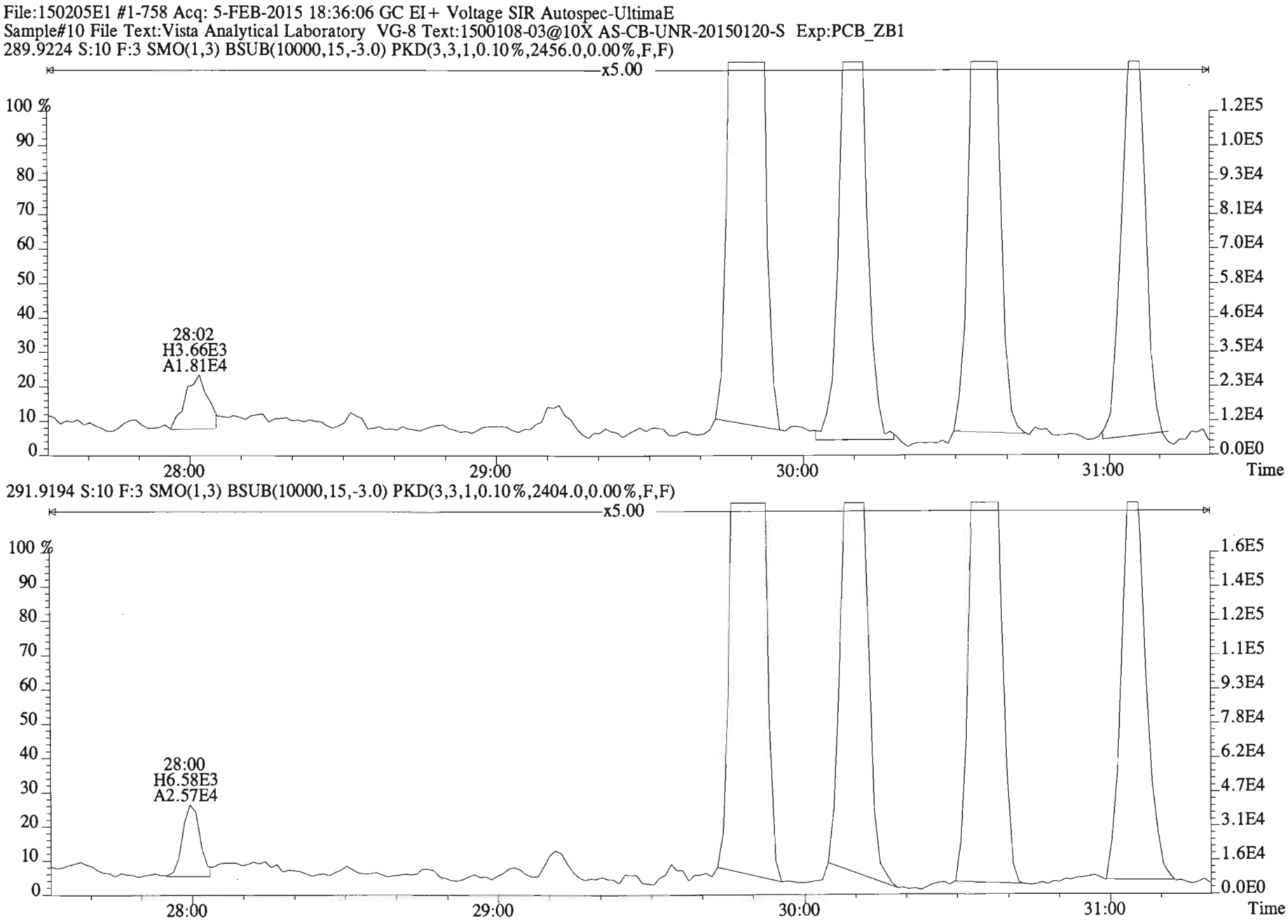


File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2456.0,0.00%,F,F)

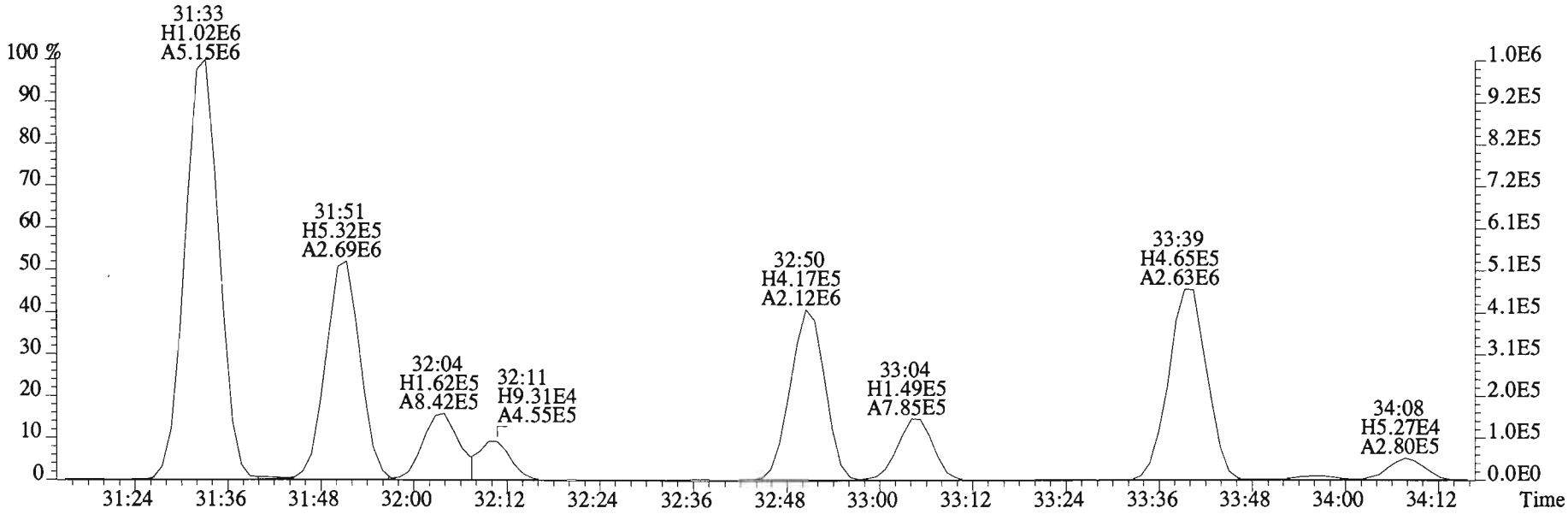


291.9194 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2404.0,0.00%,F,F)

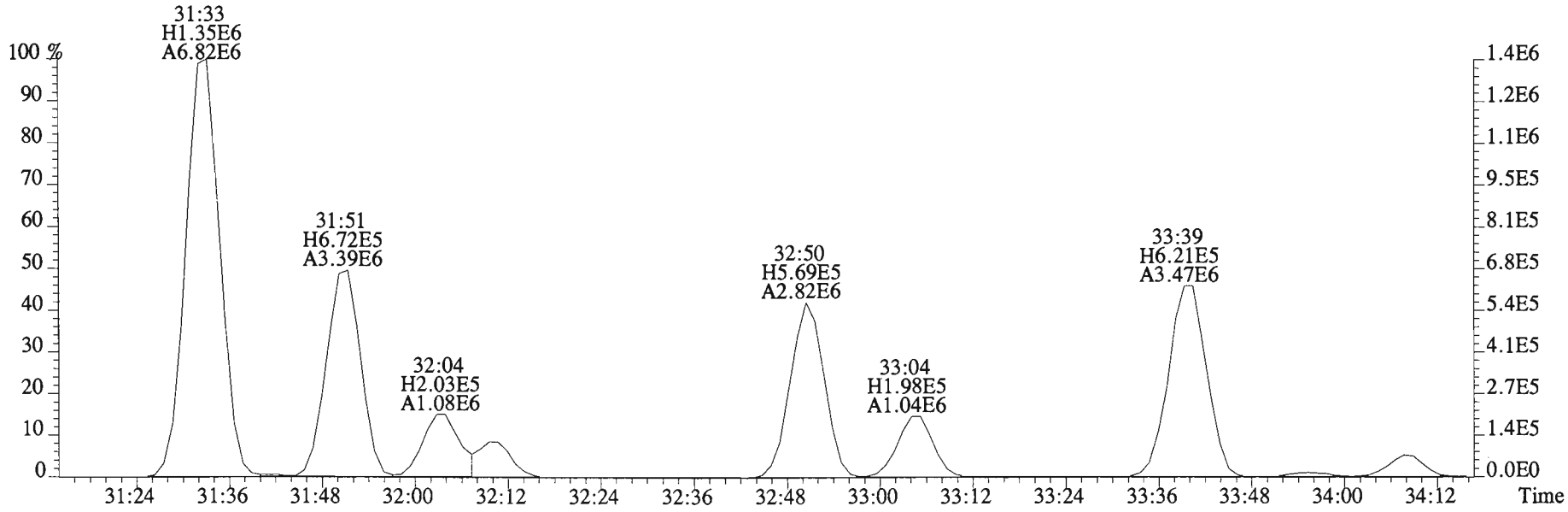



File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2456.0,0.00%,F,F)
x5.00
28:02
H3.66E3
A1.81E4
291.9194 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2404.0,0.00%,F,F)
x5.00
28:00
H6.58E3
A2.57E4
Time

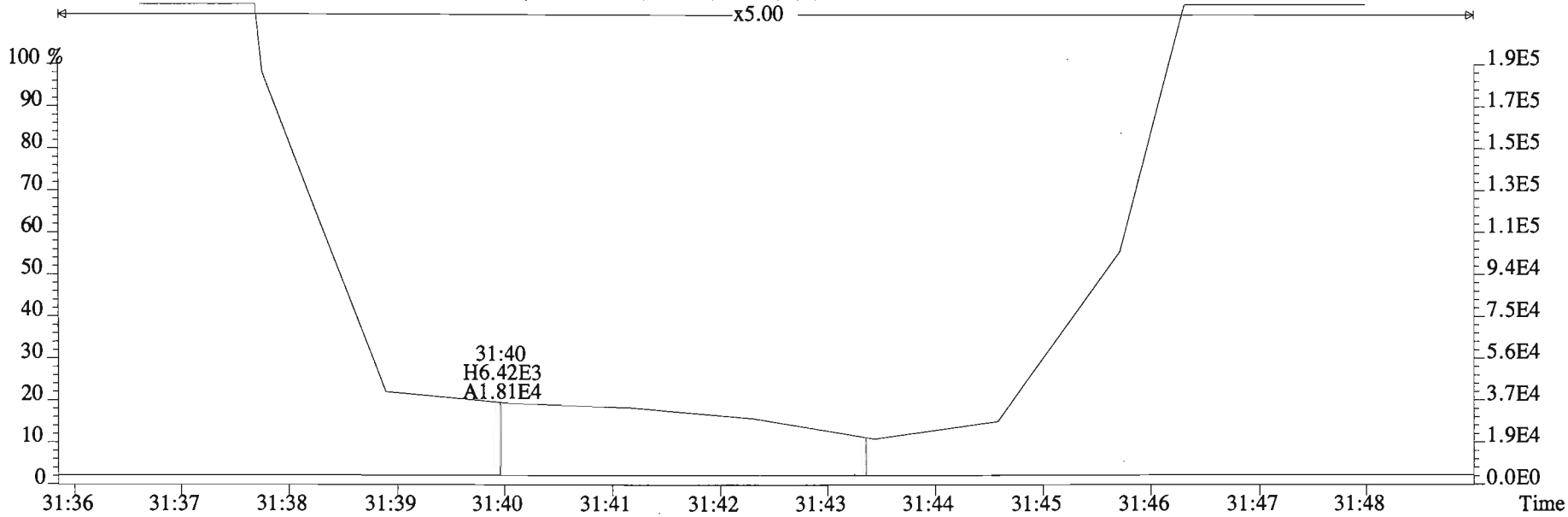
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2456.0,0.00%,F,F)



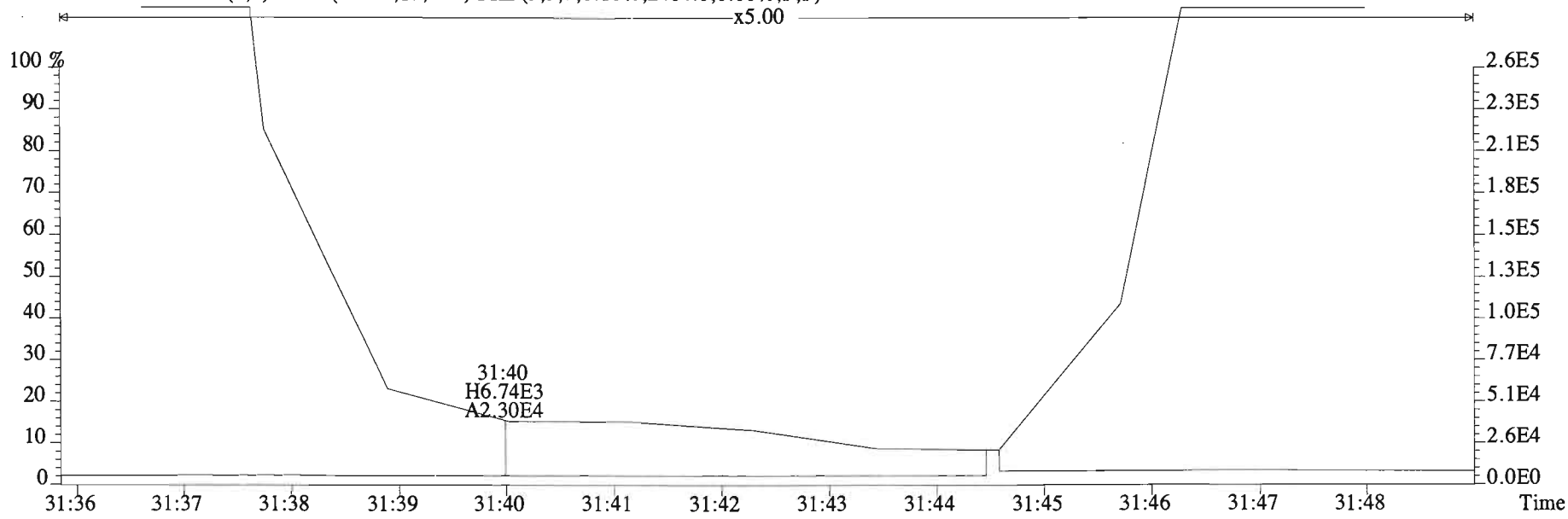
291.9194 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2404.0,0.00%,F,F)



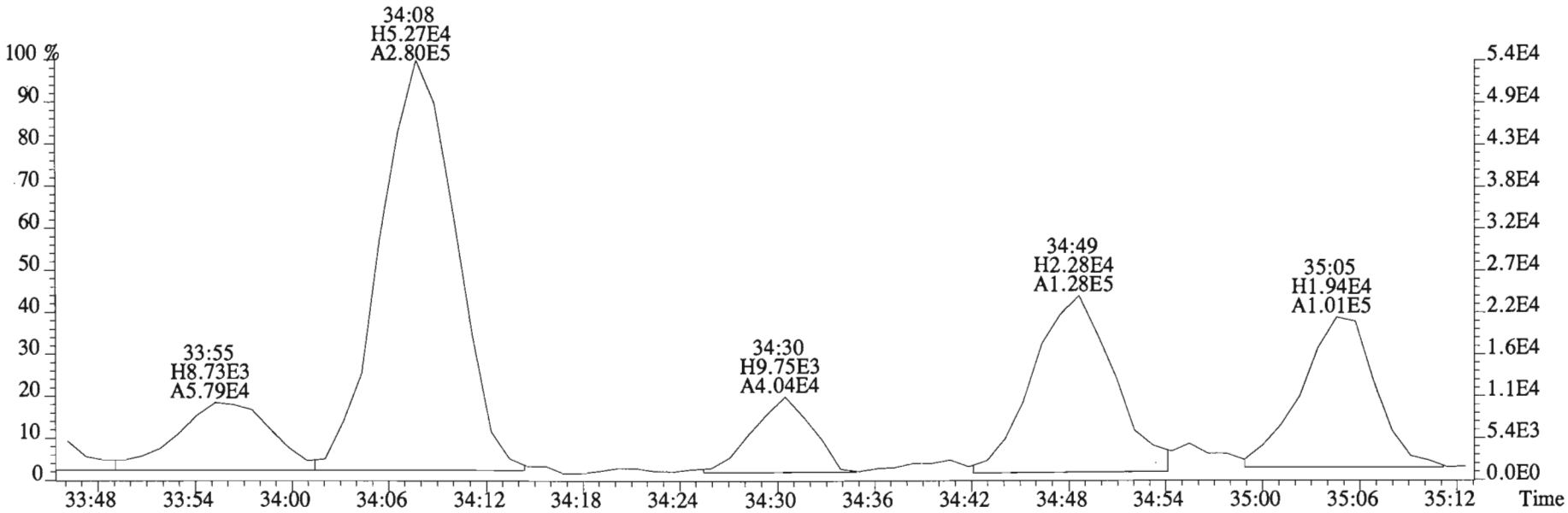
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2456.0,0.00%,F,F)



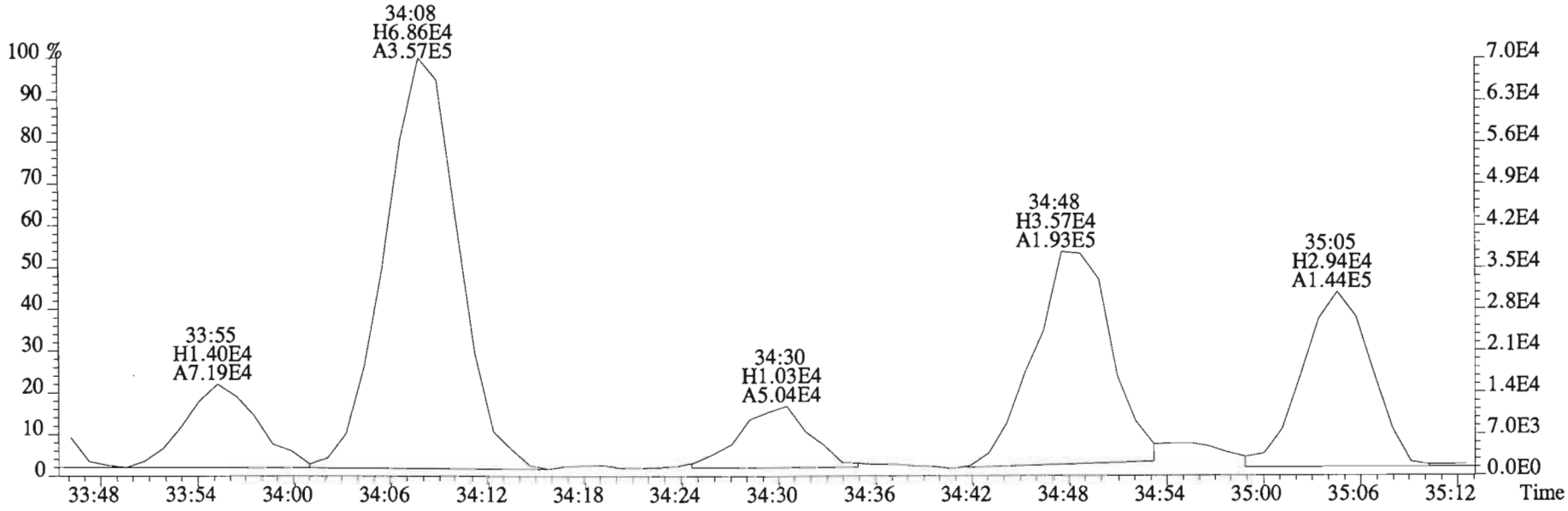
291.9194 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2404.0,0.00%,F,F)



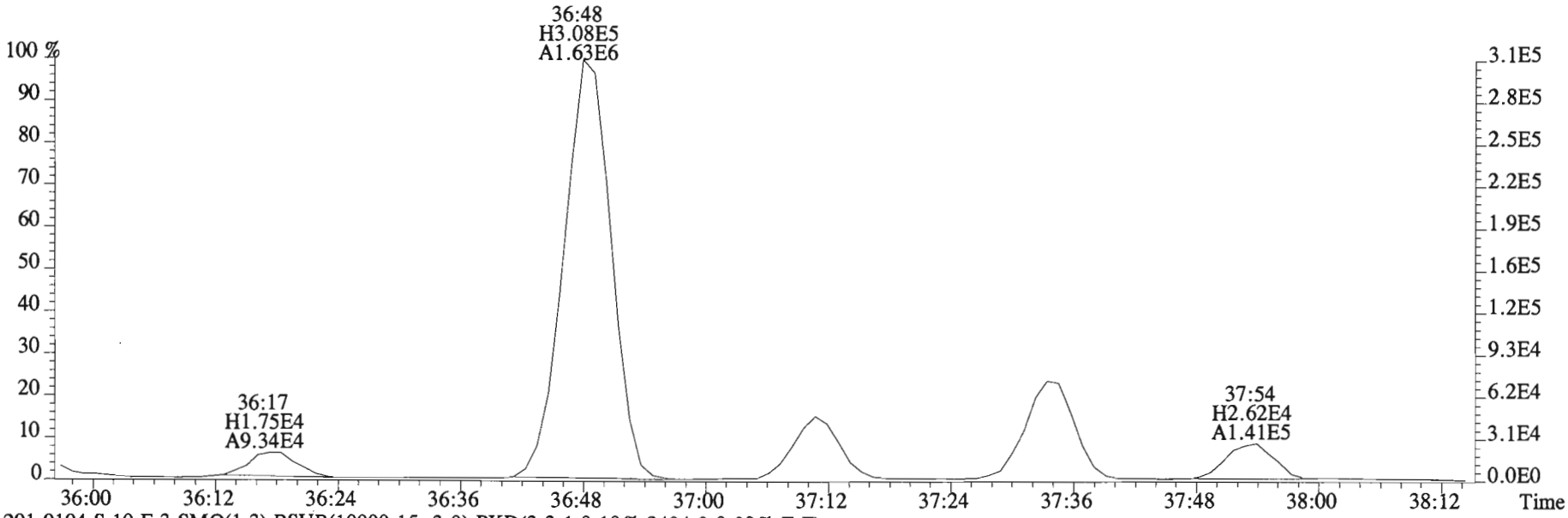
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2456.0,0.00%,F,F)



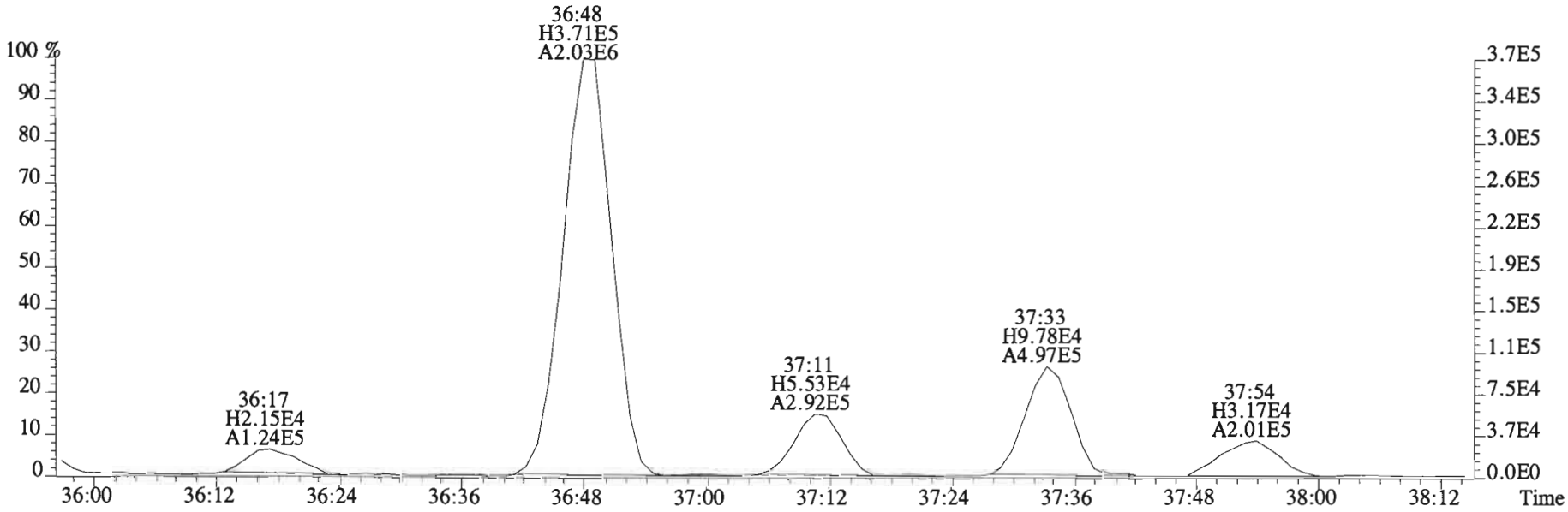
291.9194 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2404.0,0.00%,F,F)



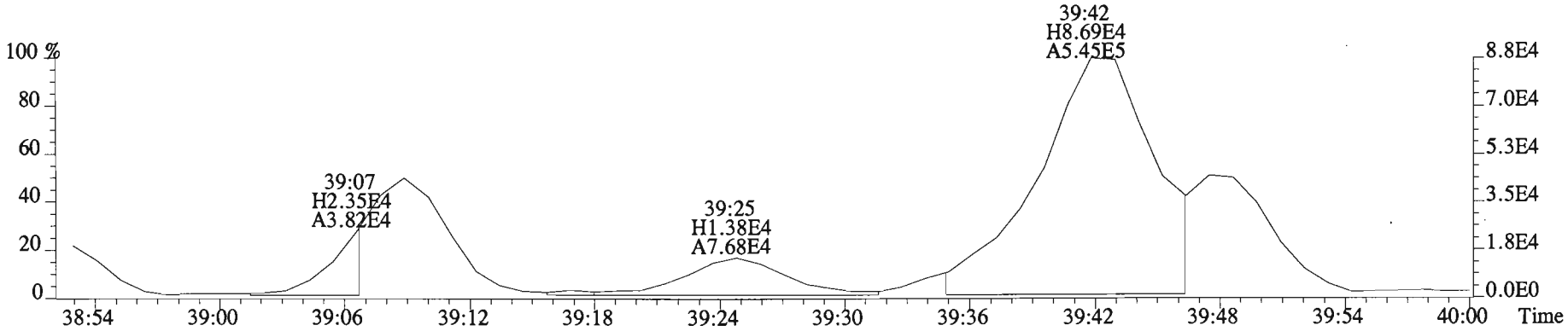
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2456.0,0.00%,F,F)



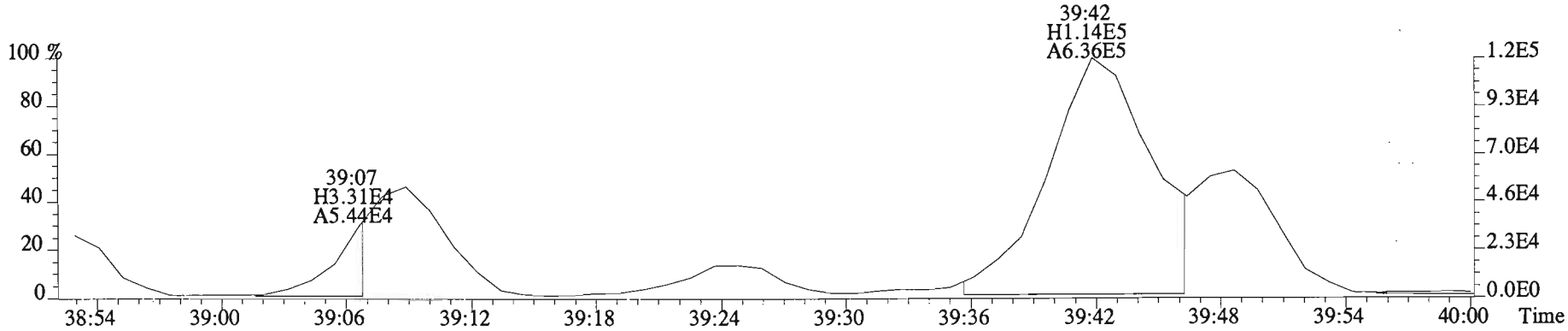
291.9194 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2404.0,0.00%,F,F)



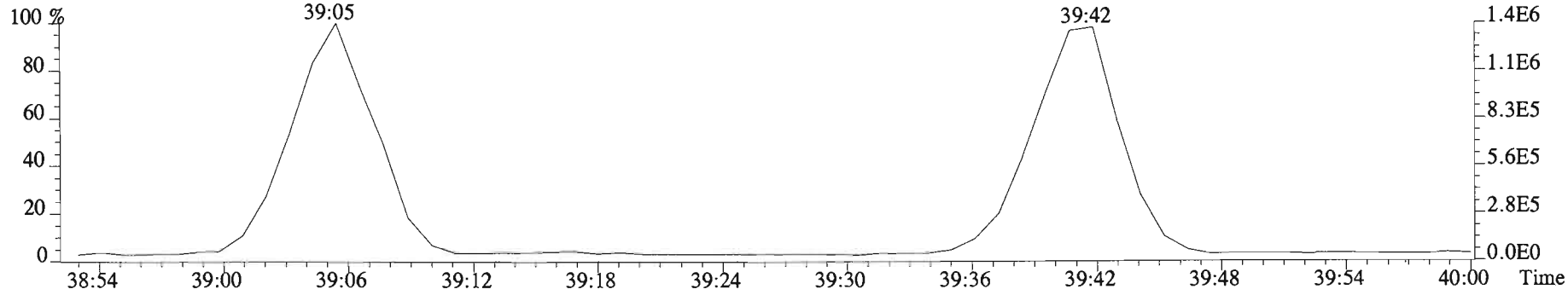
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2456.0,0.00%,F,F)



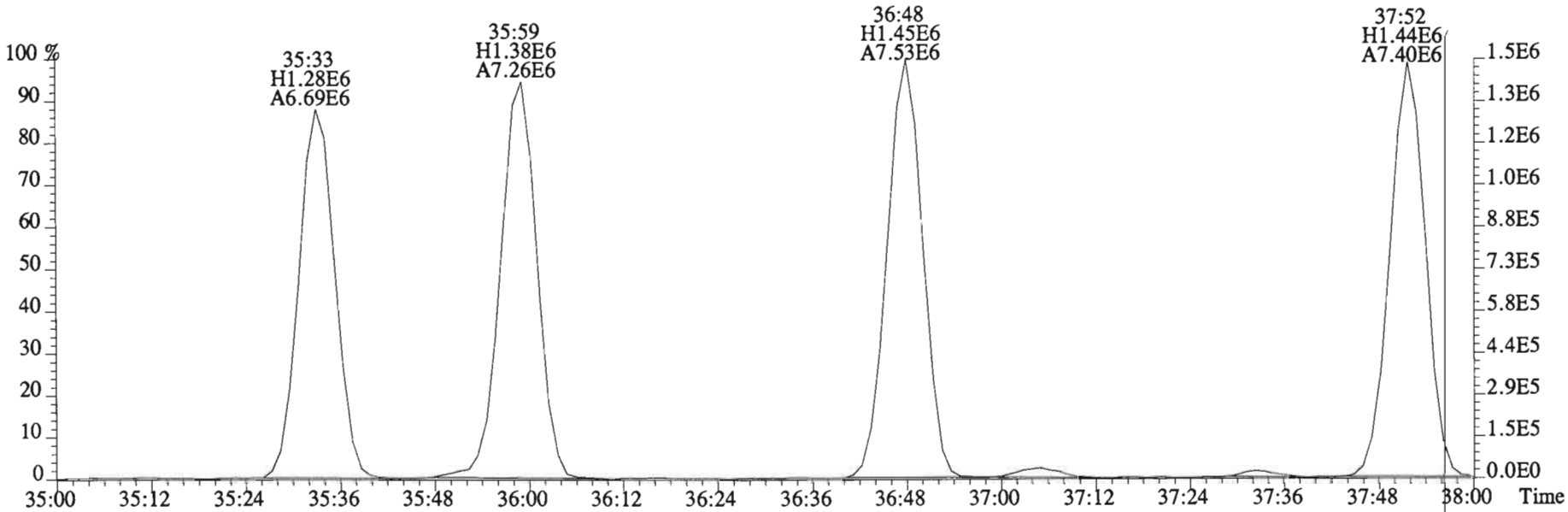
291.9194 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2404.0,0.00%,F,F)



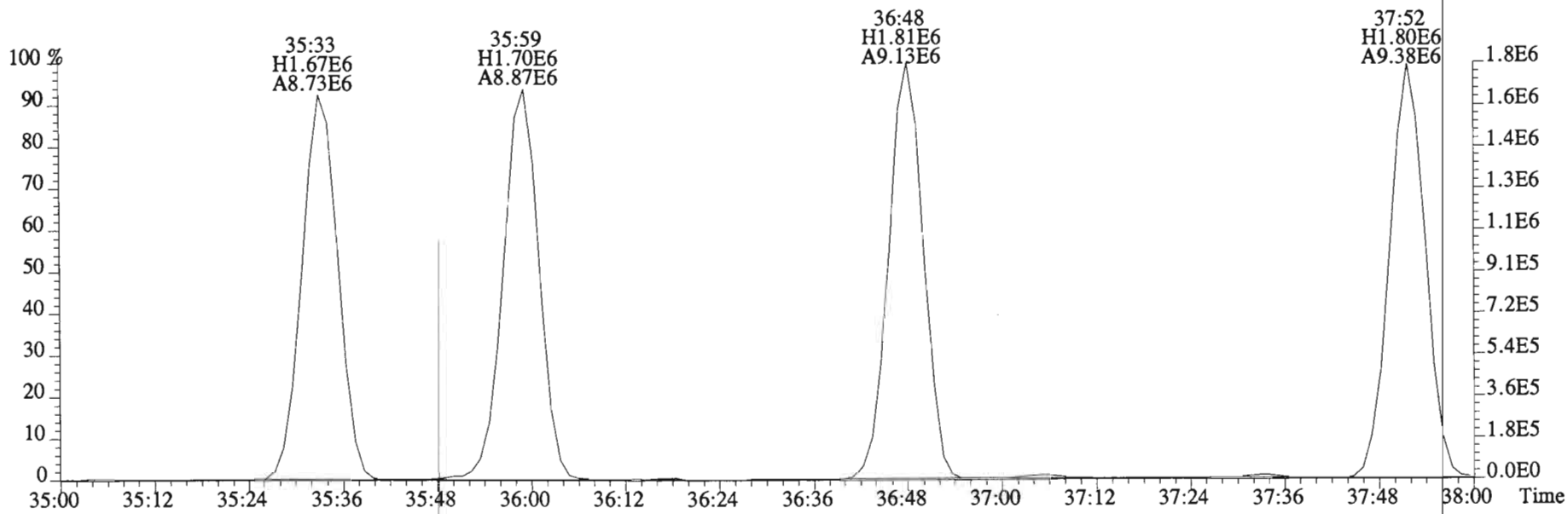
301.9626 S:10 F:3



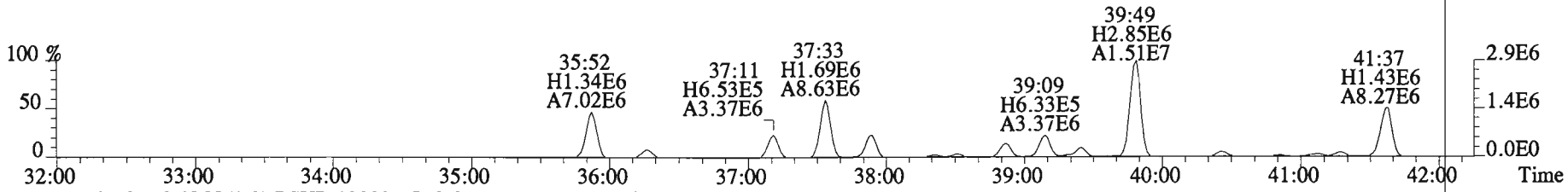
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
301.9626 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5232.0,0.00%,F,F)



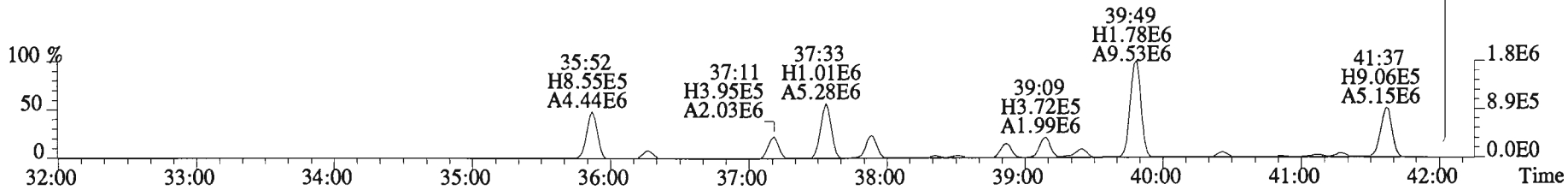
303.9597 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2848.0,0.00%,F,F)



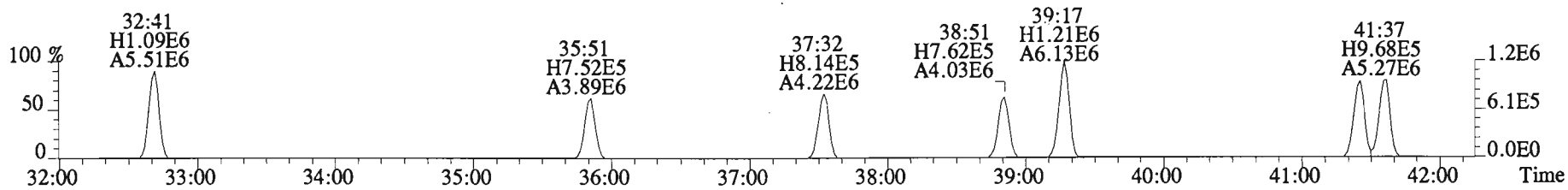
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2744.0,0.00%,F,F)



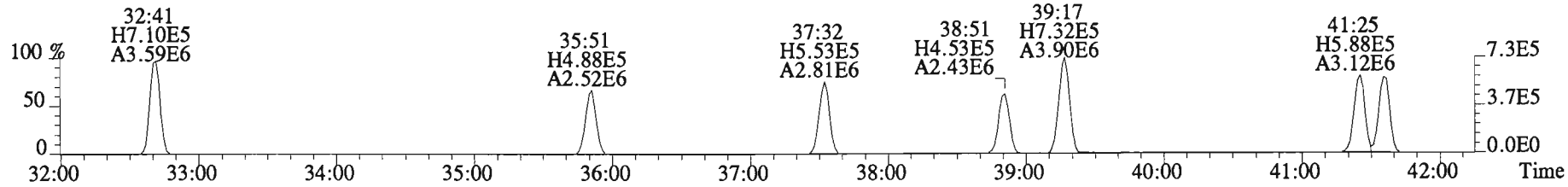
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2112.0,0.00%,F,F)



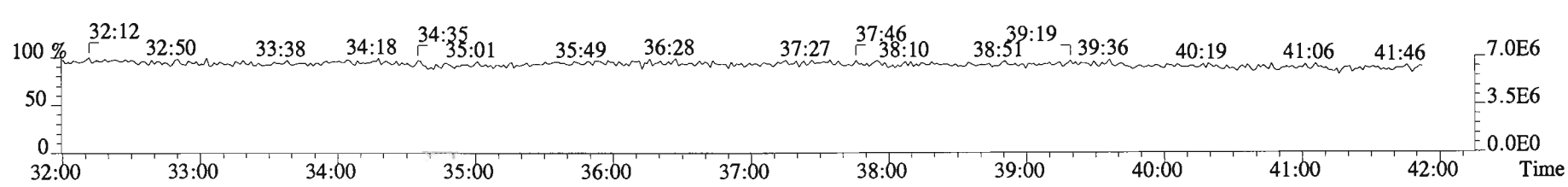
337.9207 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)



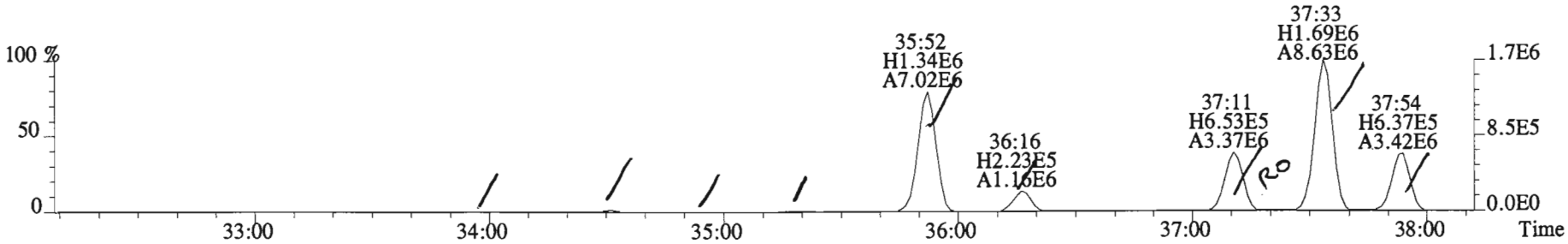
339.9177 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1820.0,0.00%,F,F)



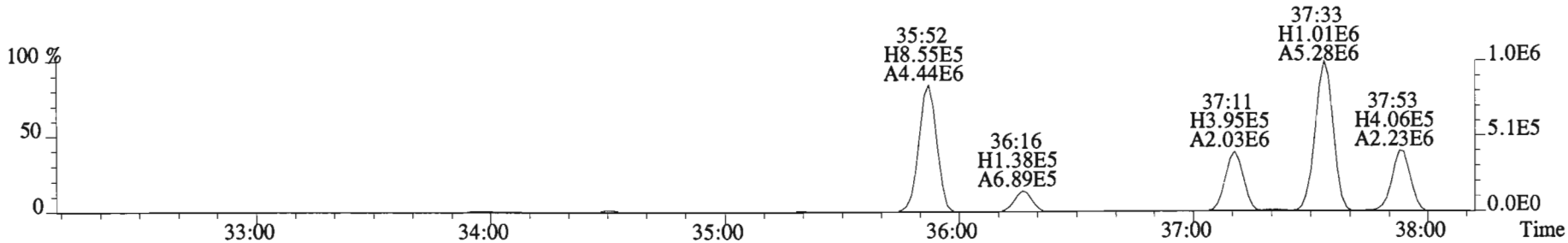
330.9792 S:10 F:3



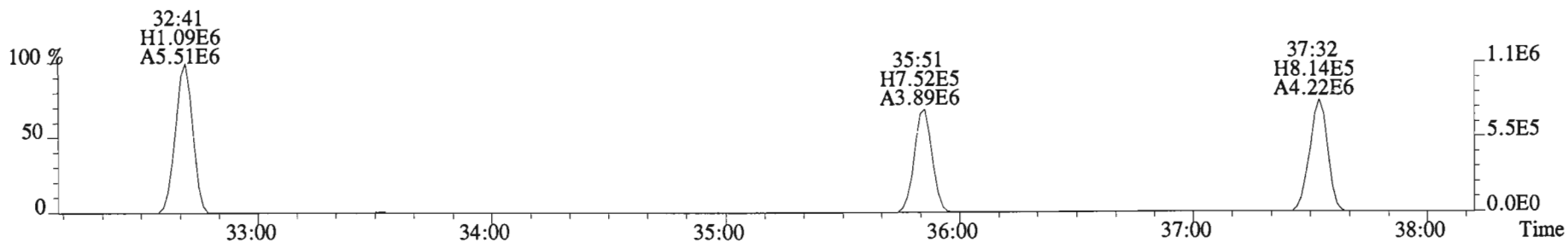
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2744.0,0.00%,F,F)



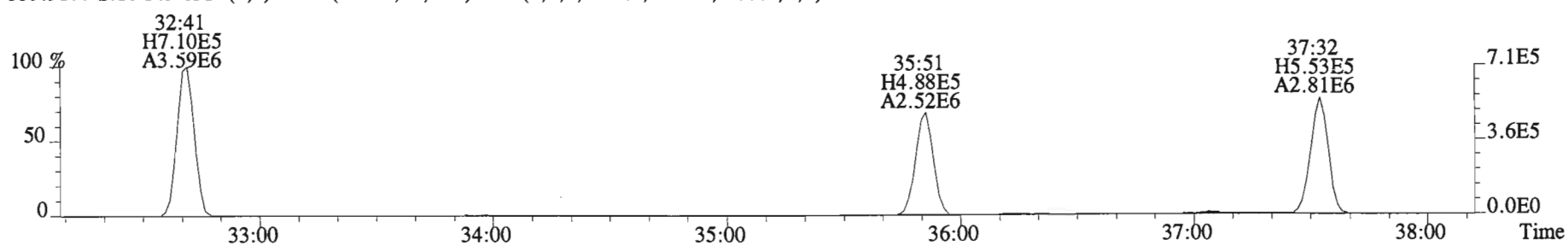
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2112.0,0.00%,F,F)



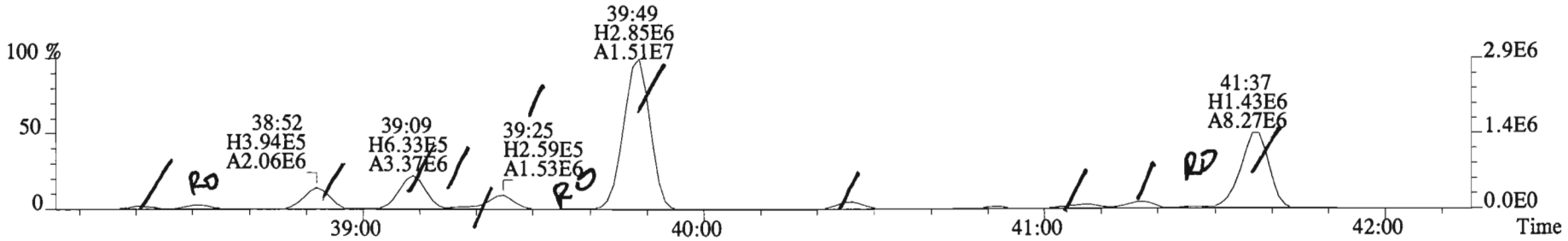
337.9207 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)



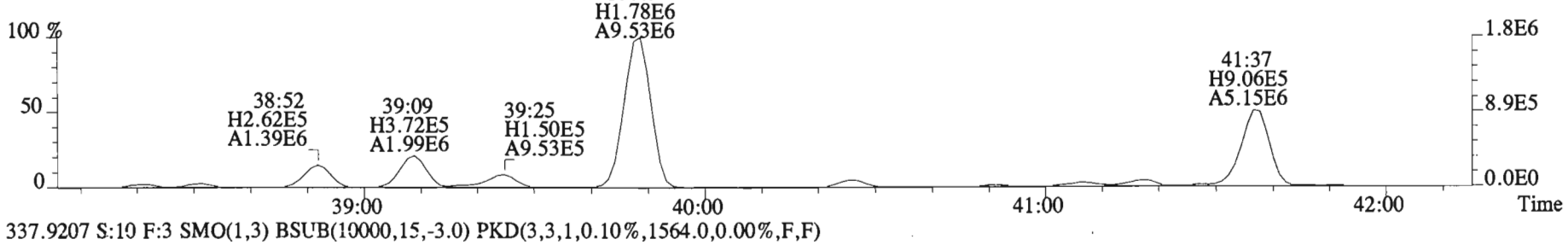
339.9177 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1820.0,0.00%,F,F)



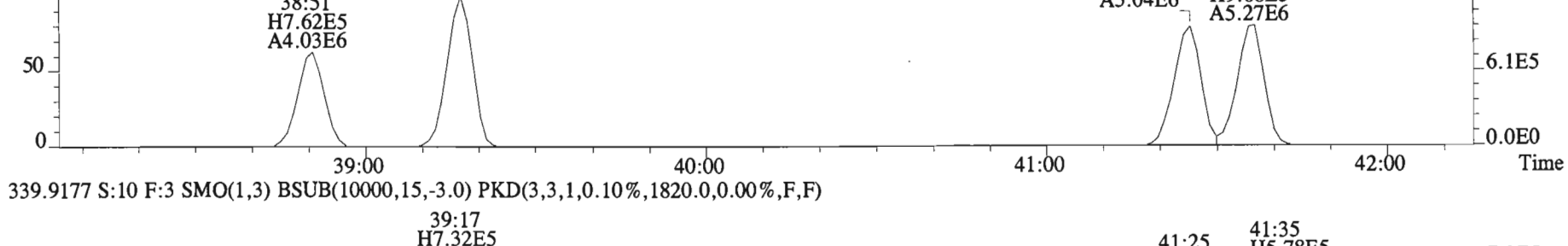
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2744.0,0.00%,F,F)



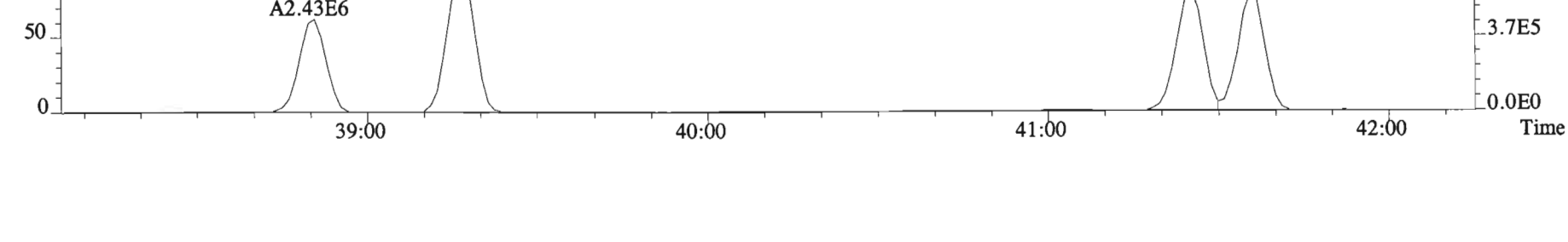
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2112.0,0.00%,F,F)



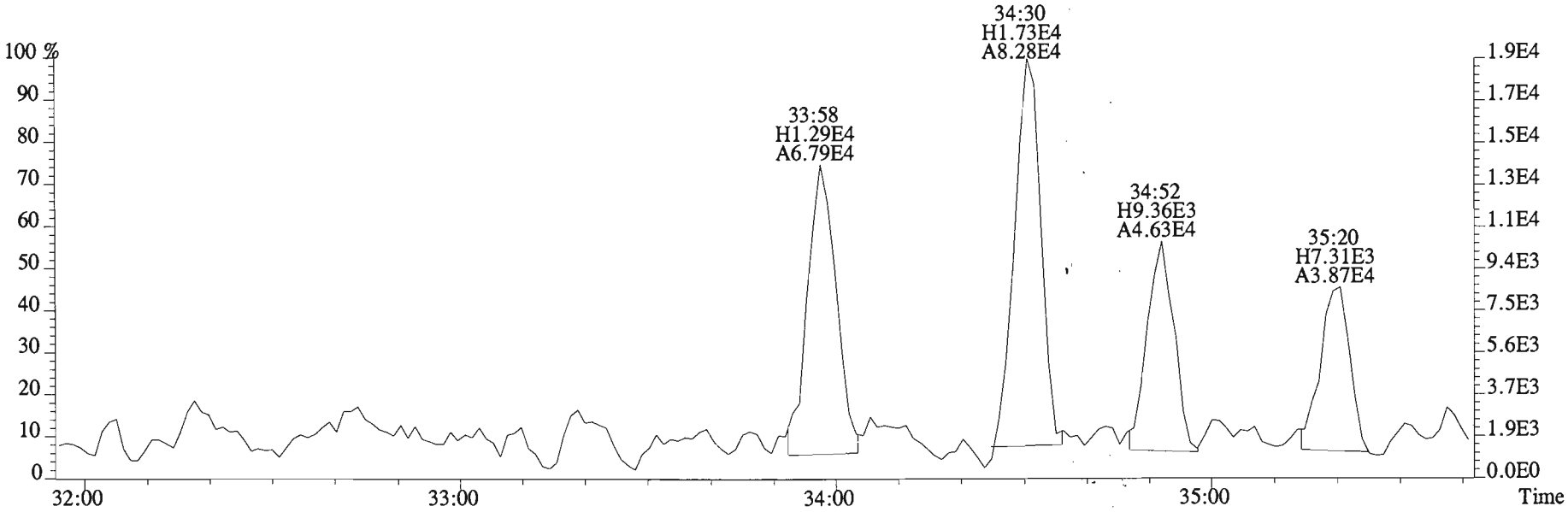
337.9207 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)



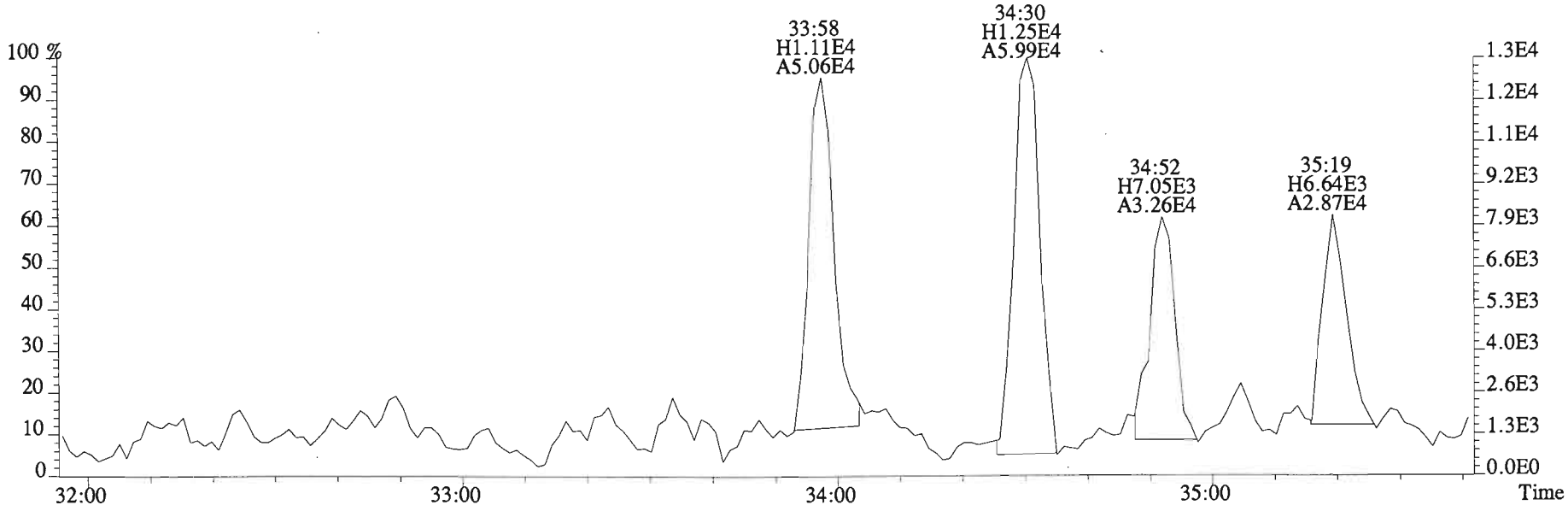
339.9177 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1820.0,0.00%,F,F)



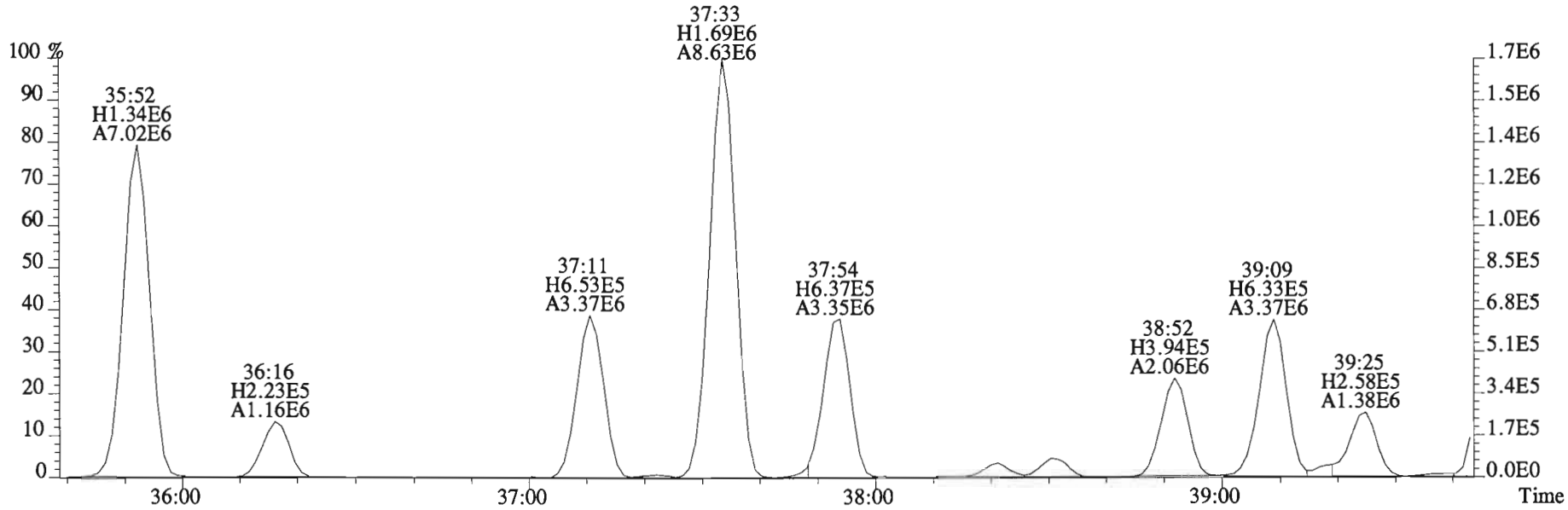
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2744.0,0.00%,F,F)



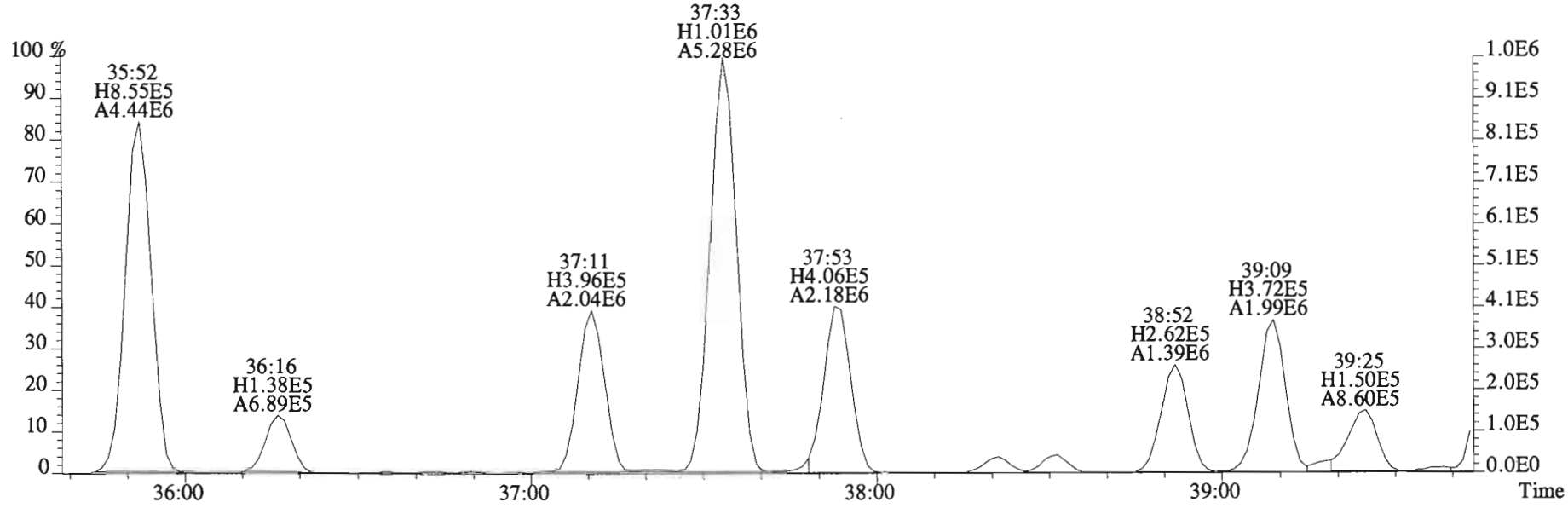
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2112.0,0.00%,F,F)



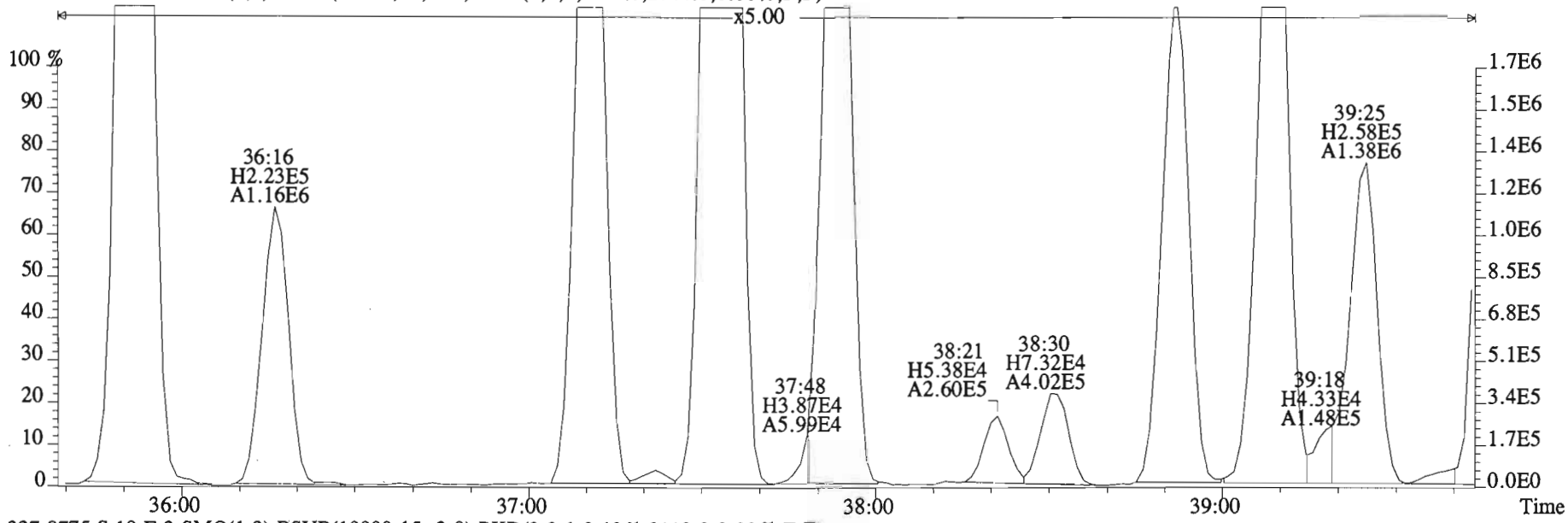
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2744.0,0.00%,F,F)



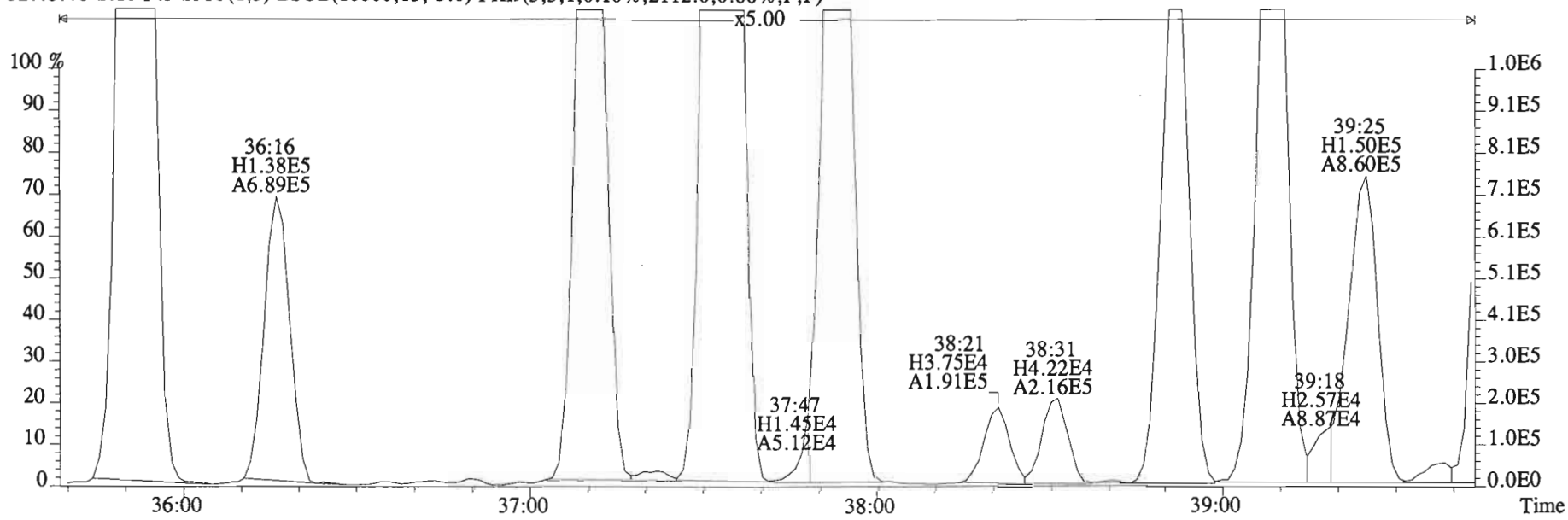
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2112.0,0.00%,F,F)



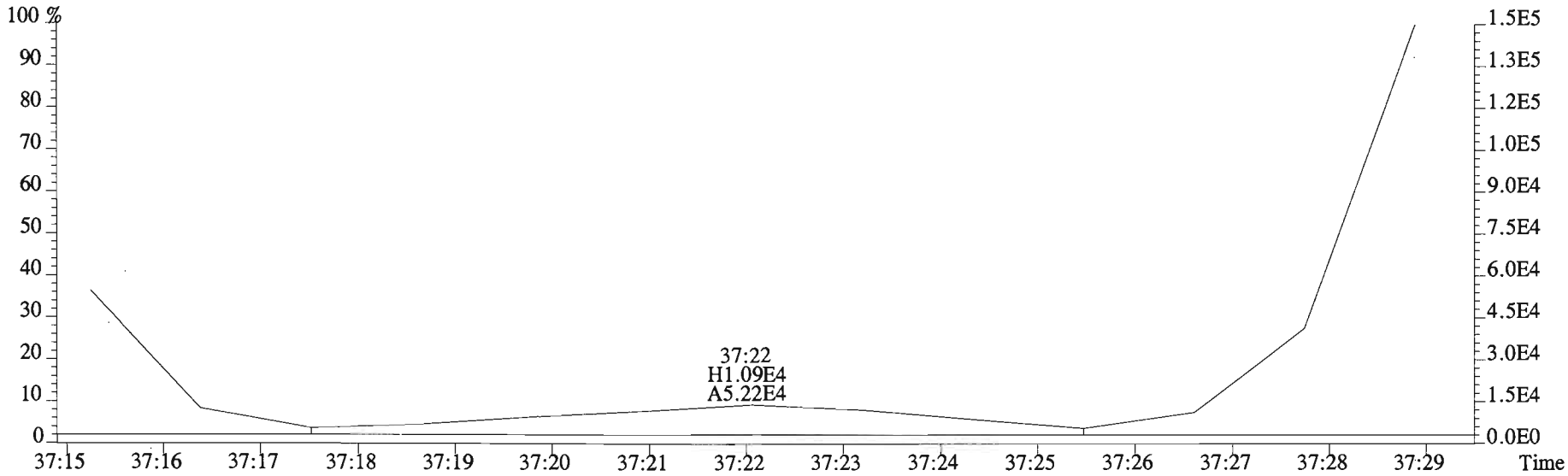
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2744.0,0.00%,F,F)



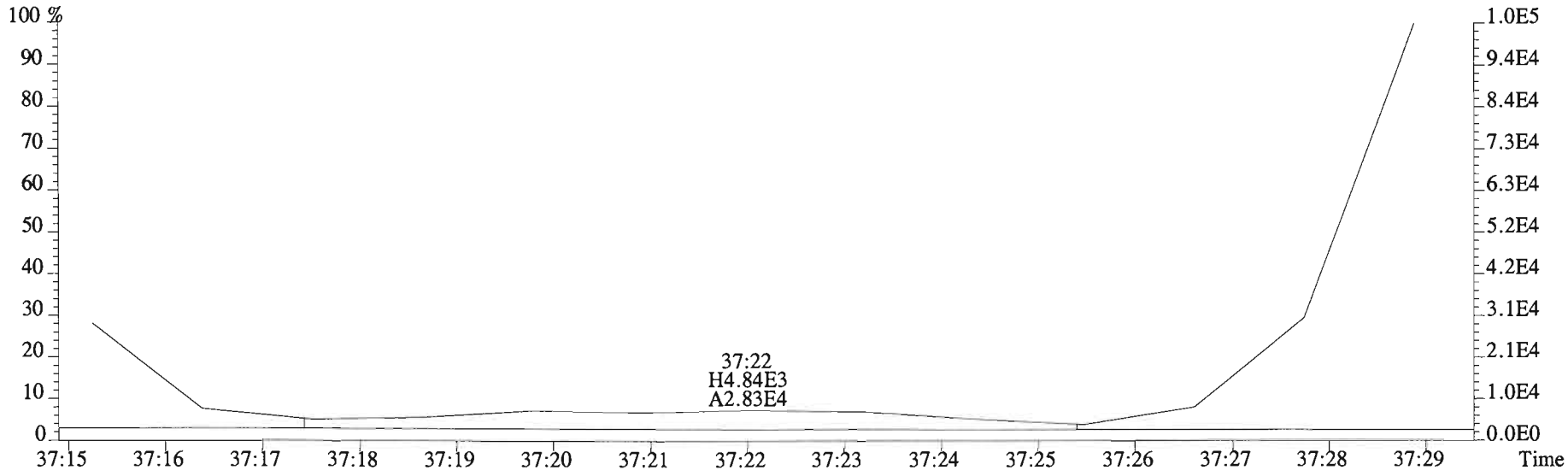
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2112.0,0.00%,F,F)



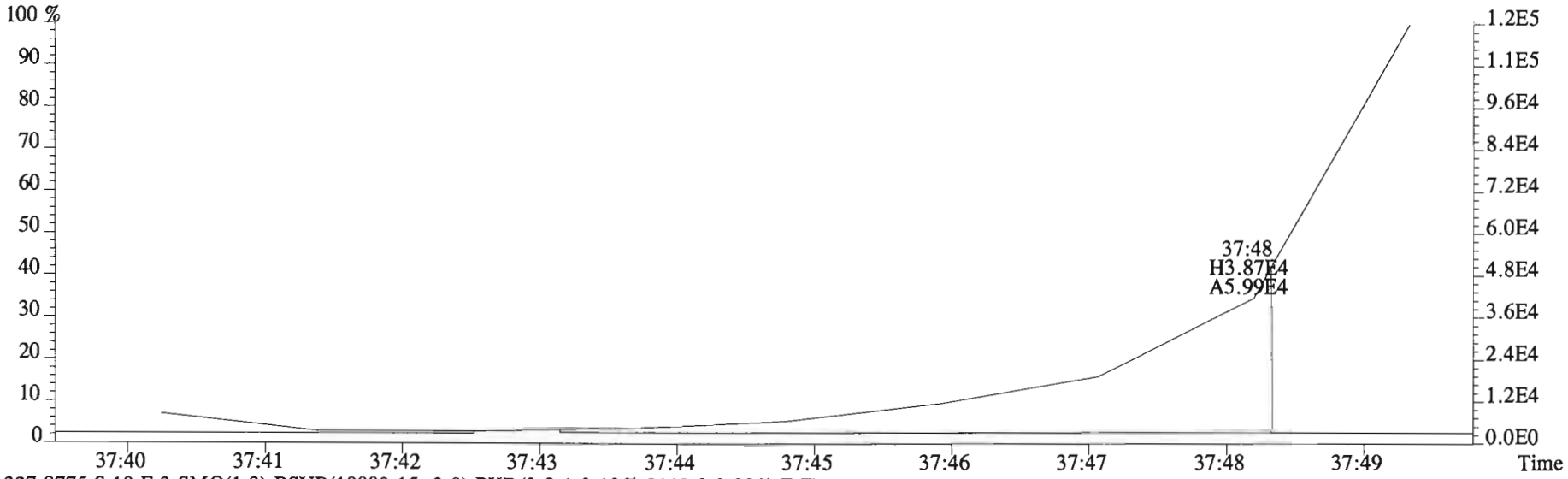
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2744.0,0.00%,F,F)



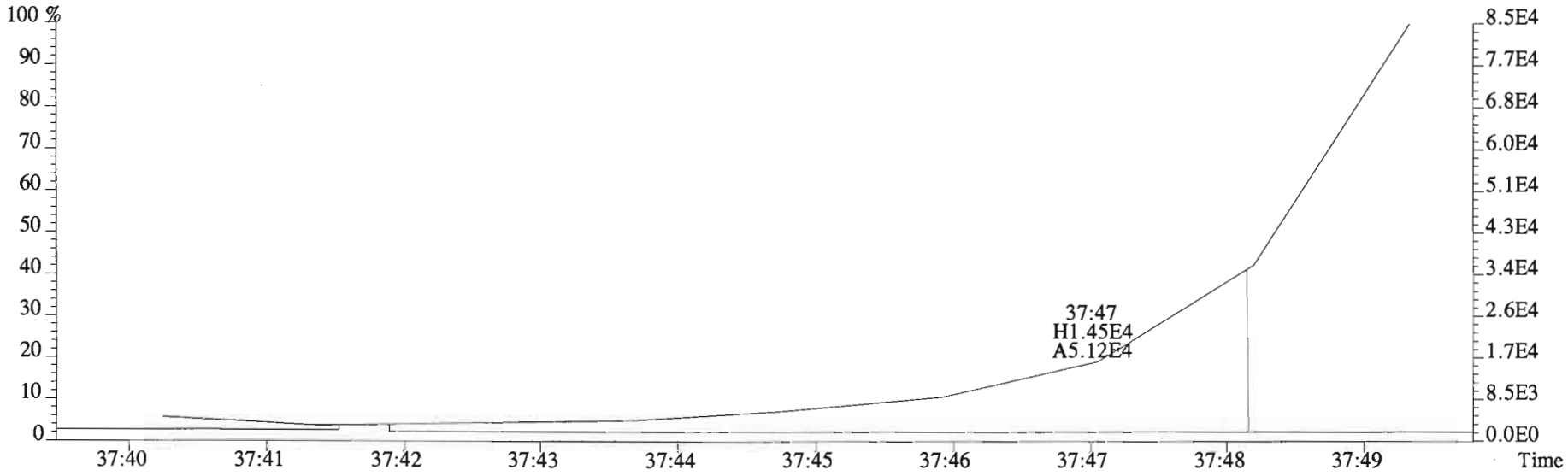
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2112.0,0.00%,F,F)



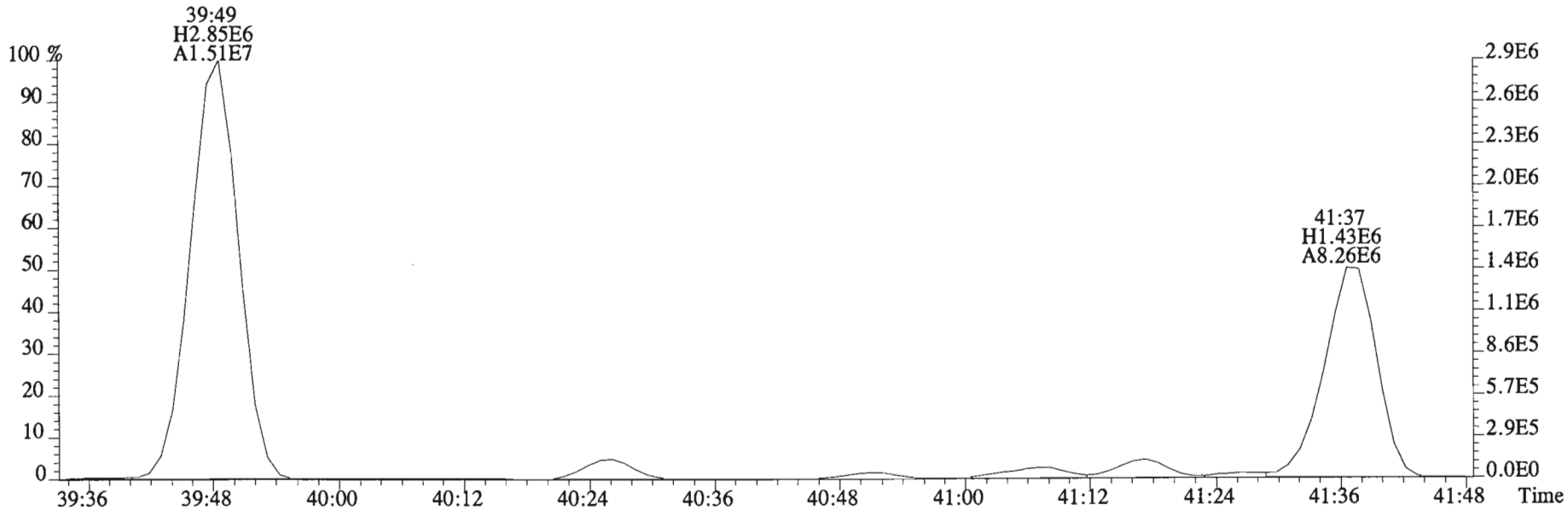
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2744.0,0.00%,F,F)



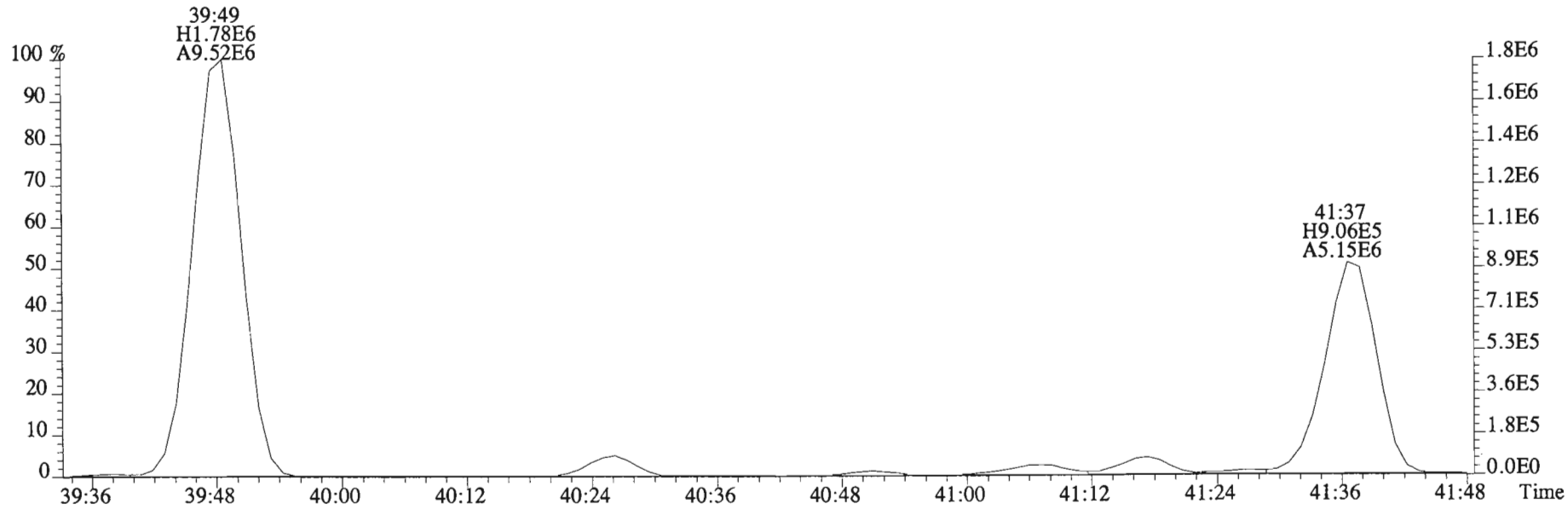
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2112.0,0.00%,F,F)



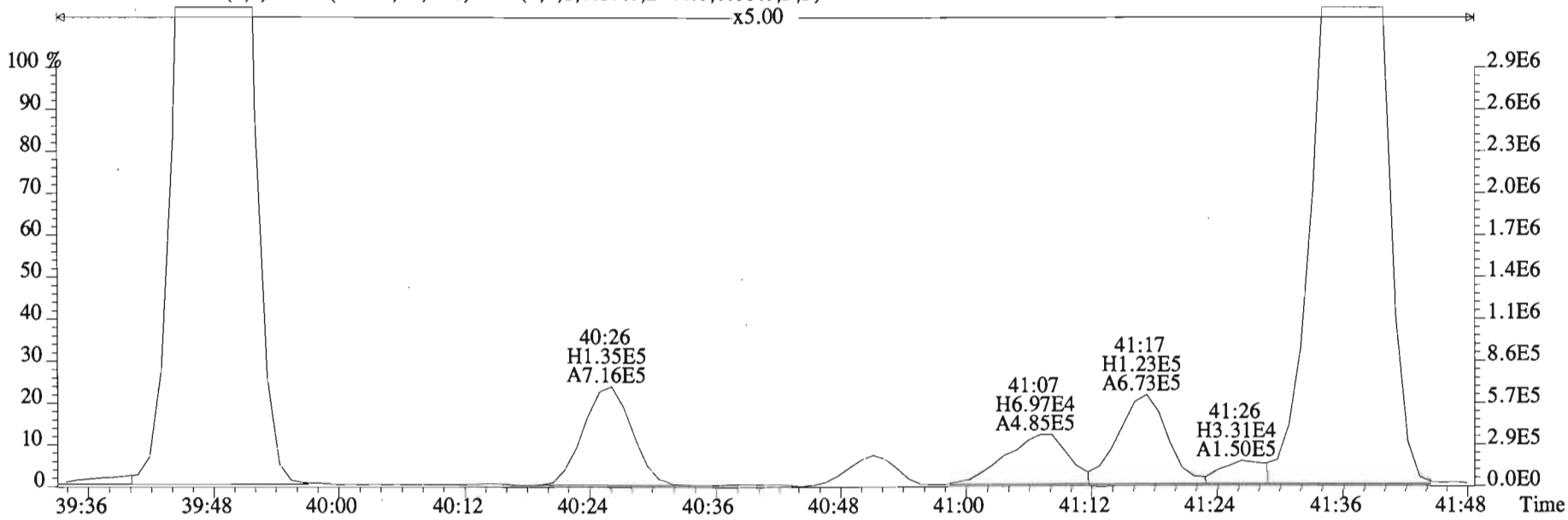
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2744.0,0.00%,F,F)



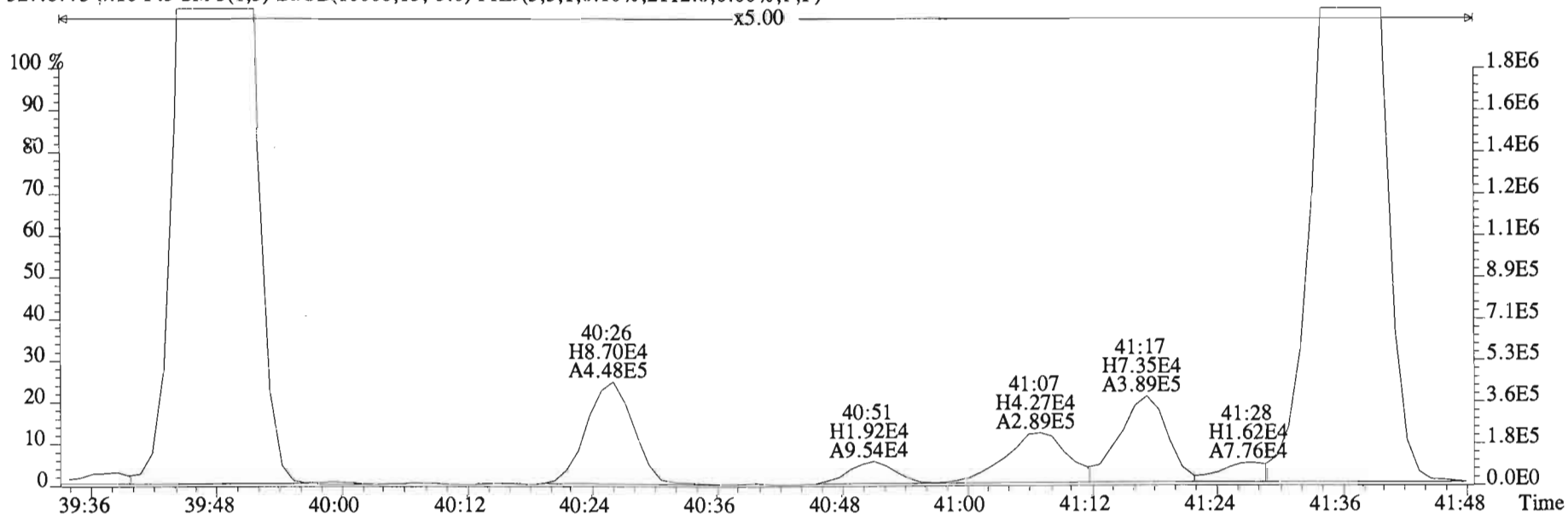
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2112.0,0.00%,F,F)



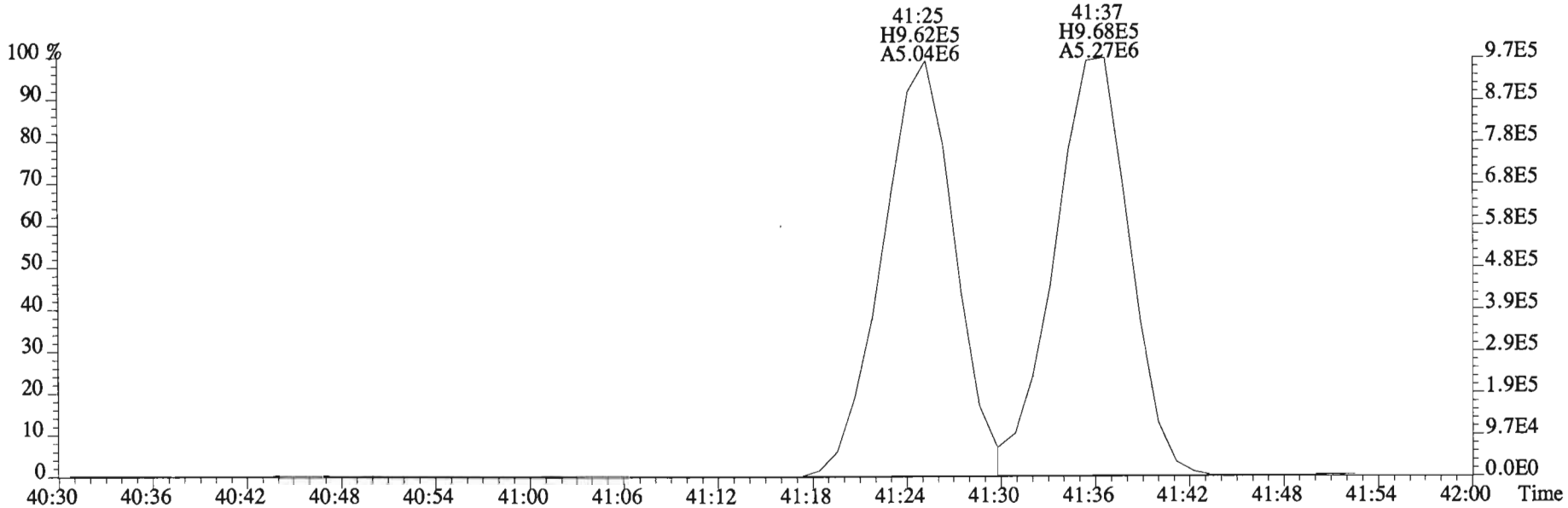
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2744.0,0.00%,F,F)



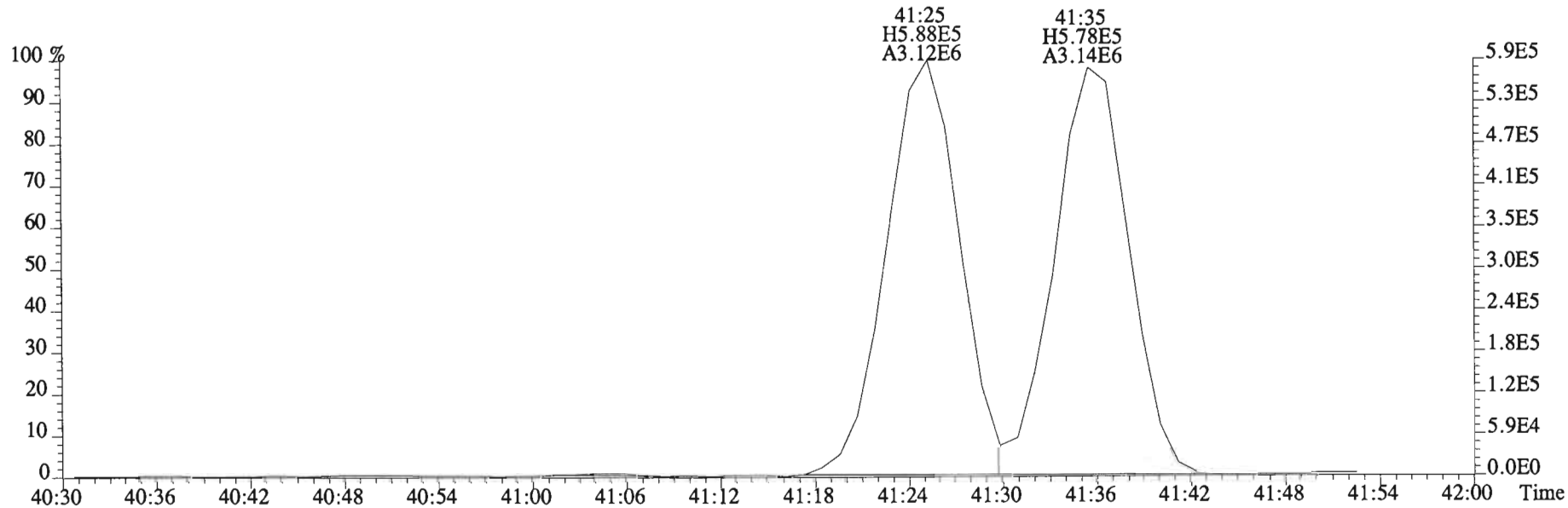
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2112.0,0.00%,F,F)



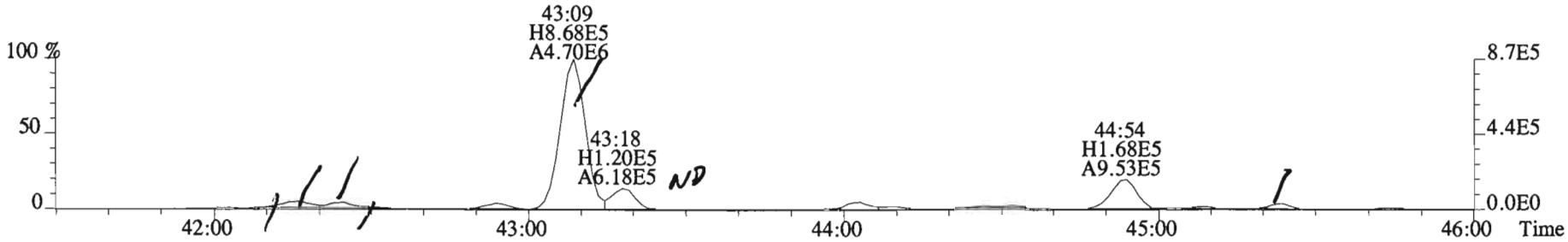
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
337.9207 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)



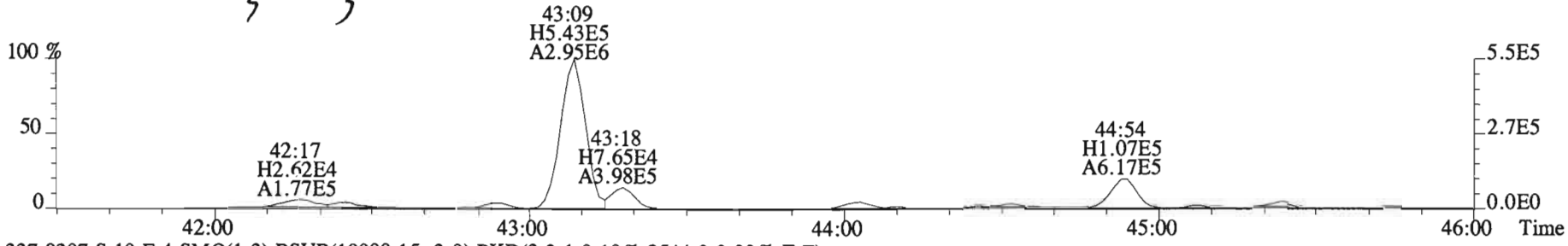
339.9177 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1820.0,0.00%,F,F)



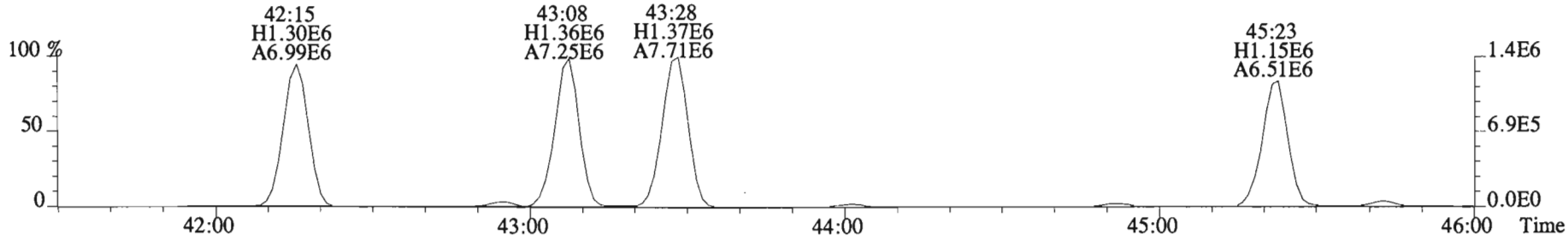
File:150205E1 #1-555 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
325.8804 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4864.0,0.00%,F,F)



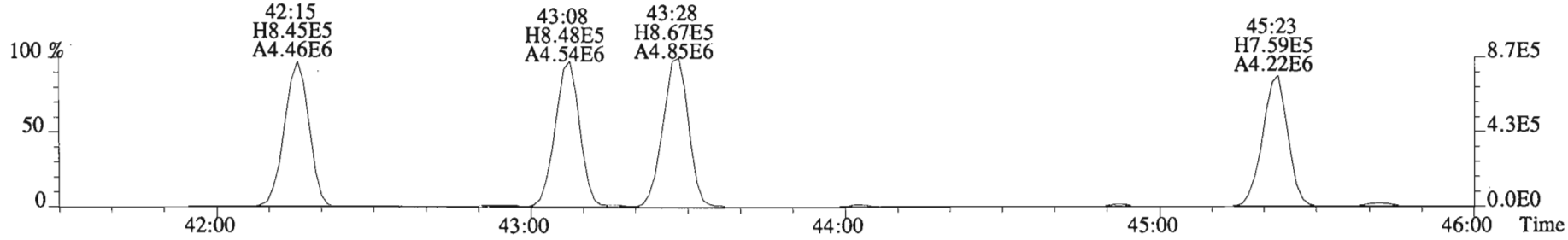
327.8775 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2960.0,0.00%,F,F)

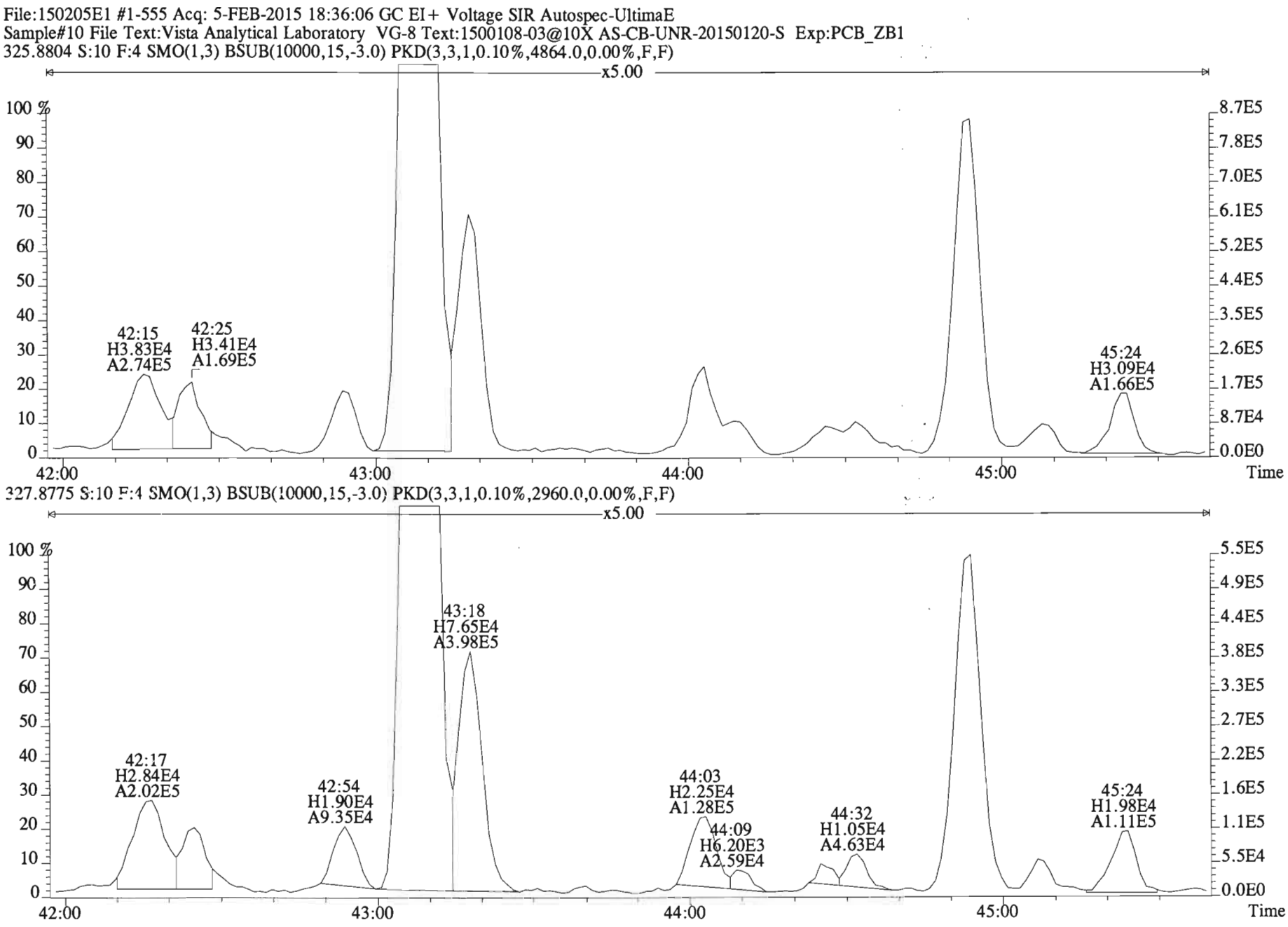


337.9207 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2544.0,0.00%,F,F)

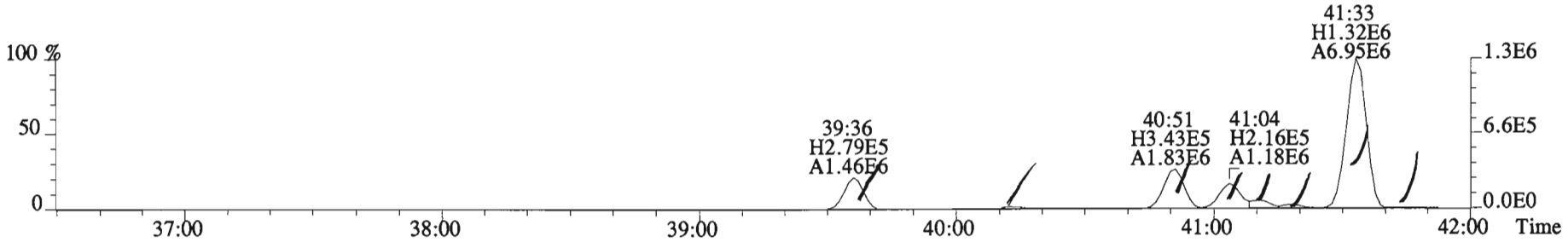


339.9177 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2340.0,0.00%,F,F)

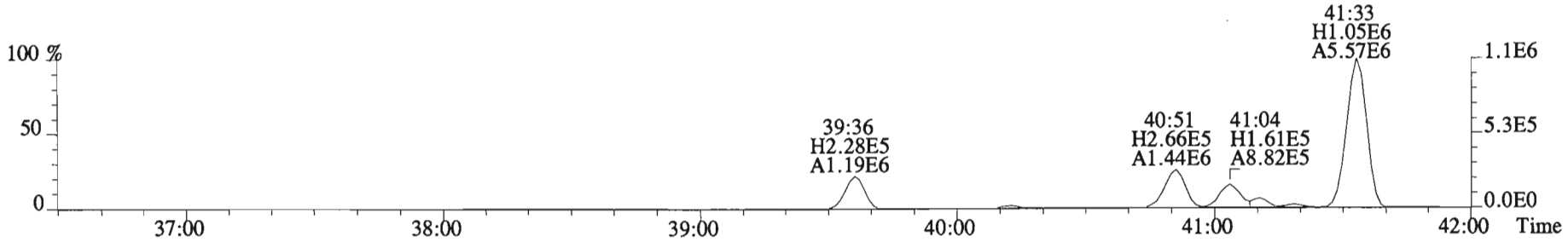



File:150205E1 #1-555 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
325.8804 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4864.0,0.00%,F,F)
x5.00
42:15
H3.83E4
A2.74E5
42:25
H3.41E4
A1.69E5
45:24
H3.09E4
A1.66E5
Time
327.8775 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2960.0,0.00%,F,F)
x5.00
42:17
H2.84E4
A2.02E5
42:54
H1.90E4
A9.35E4
43:18
H7.65E4
A3.98E5
44:03
H2.25E4
A1.28E5
44:09
H6.20E3
A2.59E4
44:32
H1.05E4
A4.63E4
45:24
H1.98E4
A1.11E5
Time

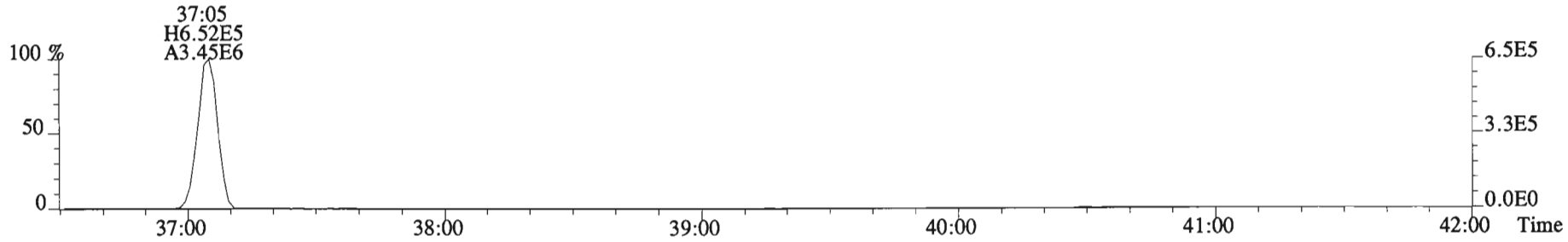
File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
359.8415 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1224.0,0.00%,F,F)



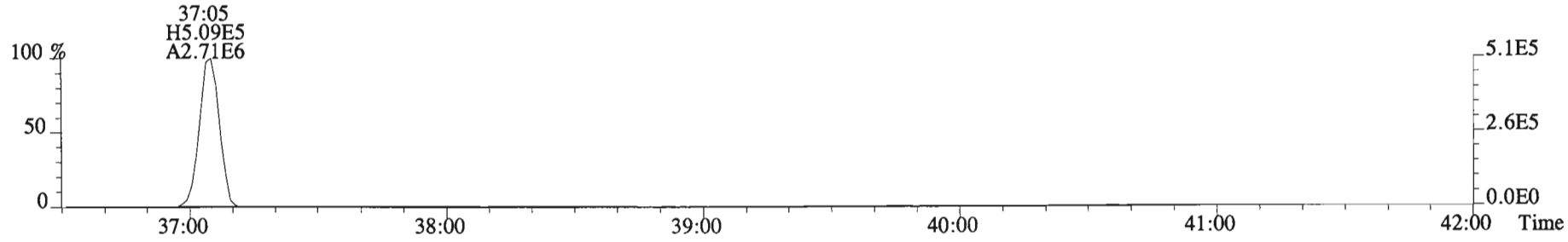
361.8385 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1444.0,0.00%,F,F)



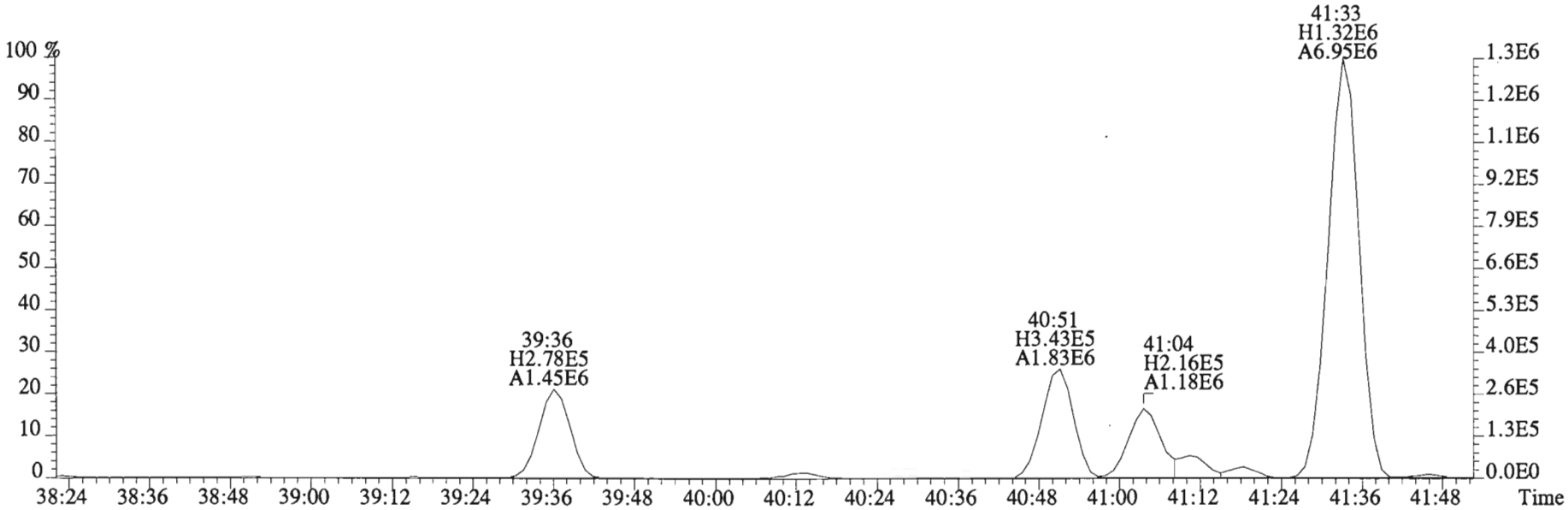
371.8817 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1592.0,0.00%,F,F)



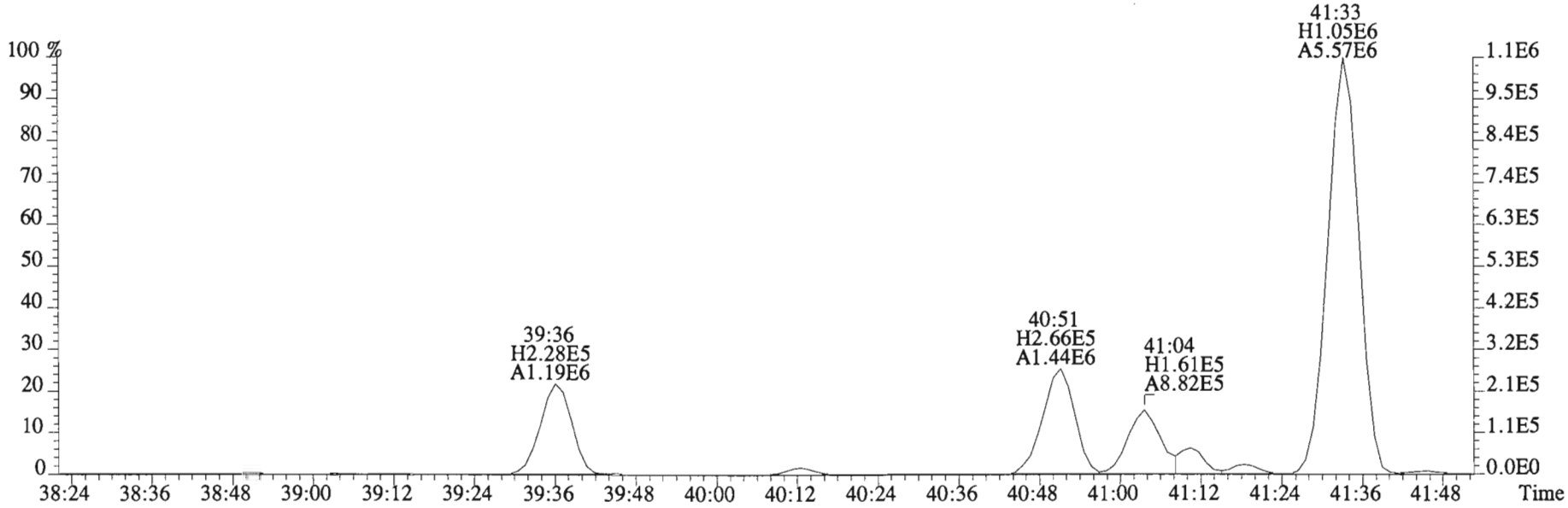
373.8788 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1720.0,0.00%,F,F)

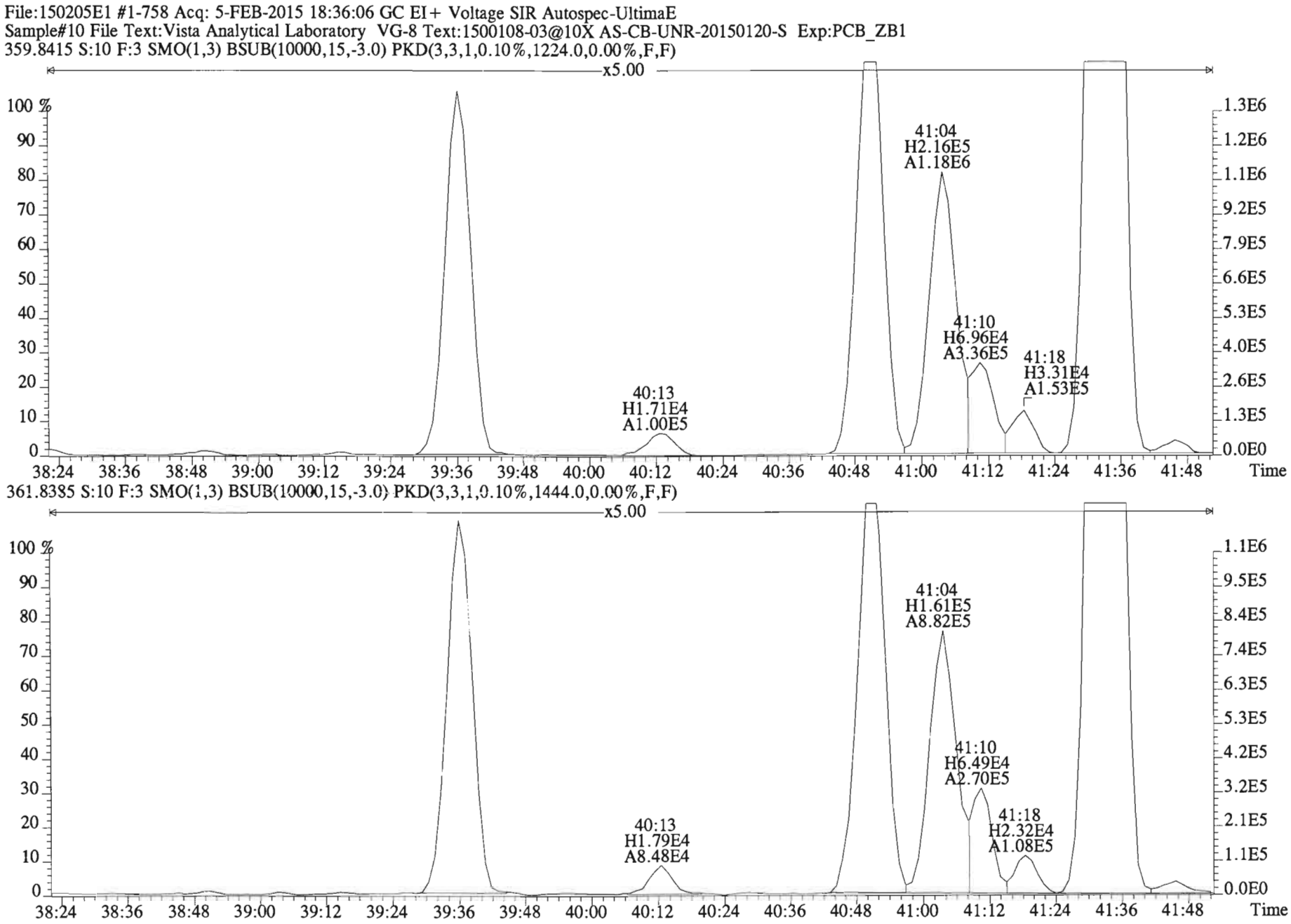


File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
359.8415 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1224.0,0.00%,F,F)

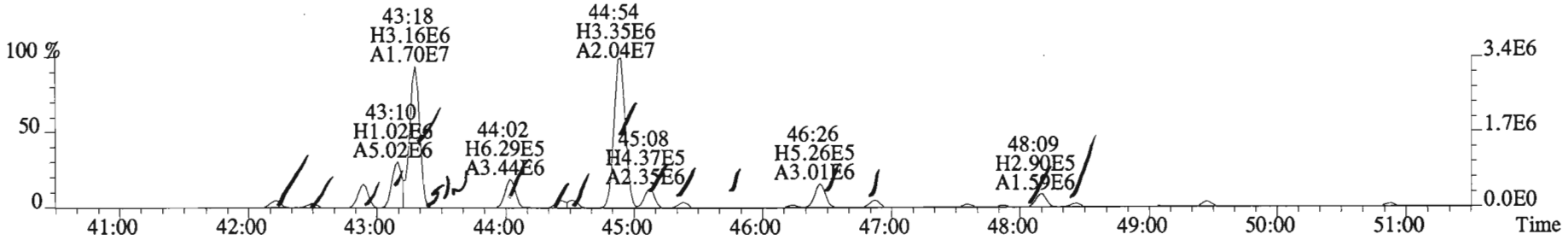


361.8385 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1444.0,0.00%,F,F)

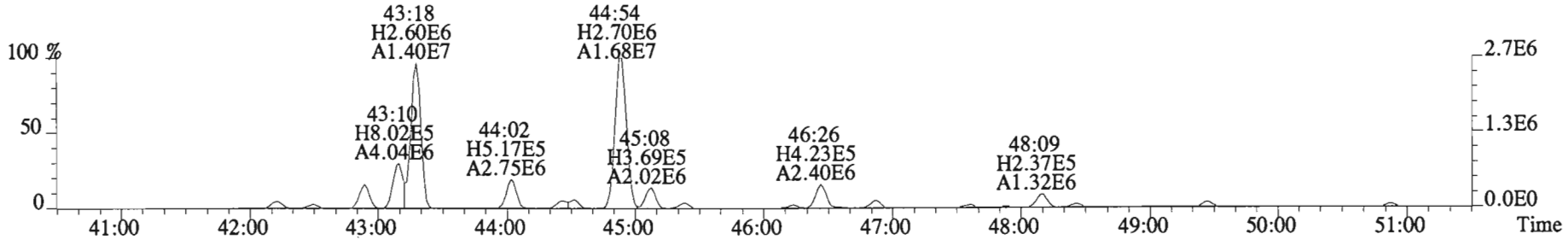



File:150205E1 #1-758 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
359.8415 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1224.0,0.00%,F,F)
x5.00
41:04
H2.16E5
A1.18E6
41:10
H6.96E4
A3.36E5
41:18
H3.31E4
A1.53E5
40:13
H1.71E4
A1.00E5
Time
361.8385 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1444.0,0.00%,F,F)
x5.00
41:04
H1.61E5
A8.82E5
41:10
H6.49E4
A2.70E5
41:18
H2.32E4
A1.08E5
40:13
H1.79E4
A8.48E4
Time

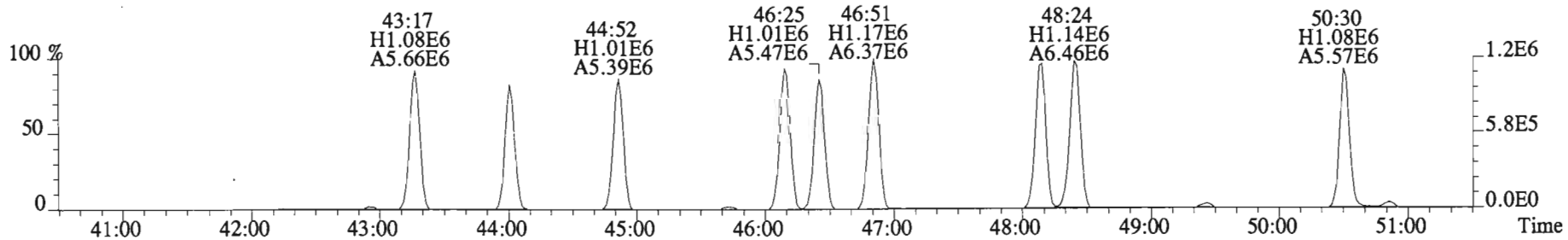
File:150205E1 #1-555 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
359.8415 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2936.0,0.00%,F,F)



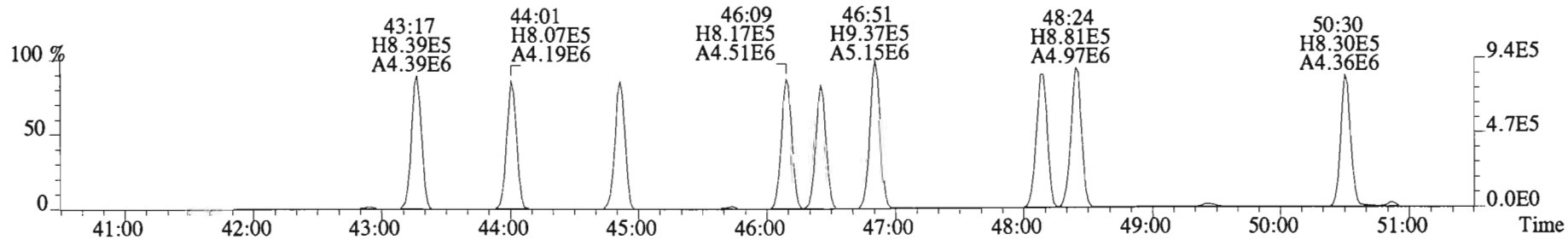
361.8385 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2340.0,0.00%,F,F)



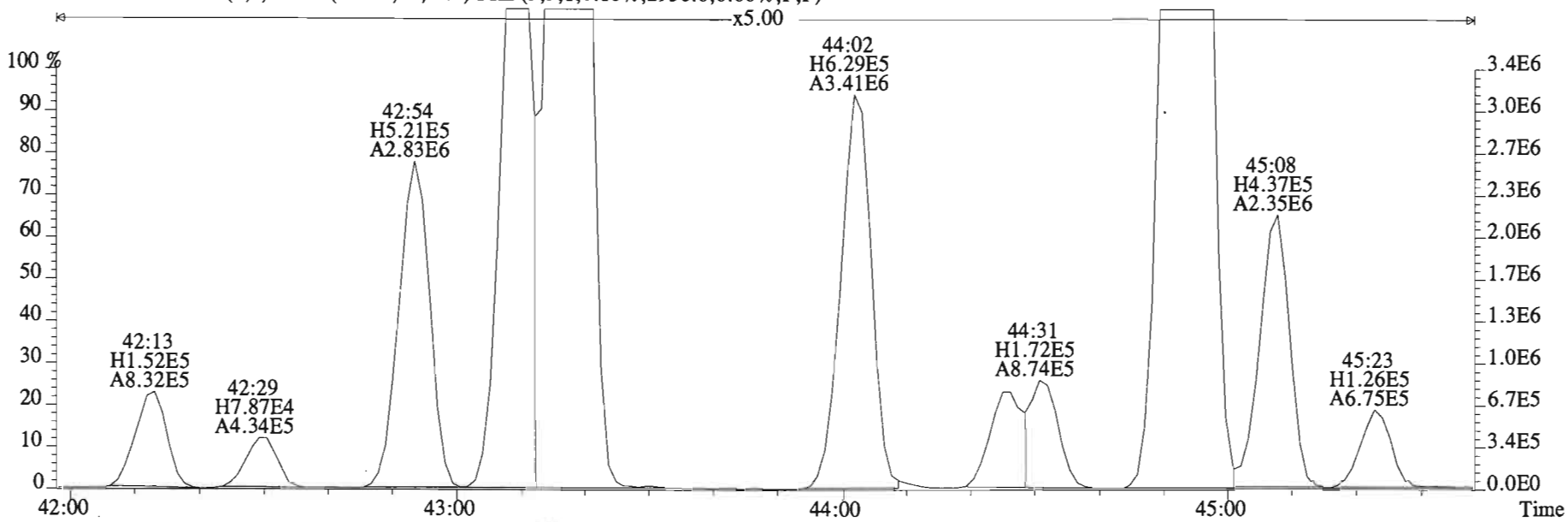
371.8817 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2640.0,0.00%,F,F)



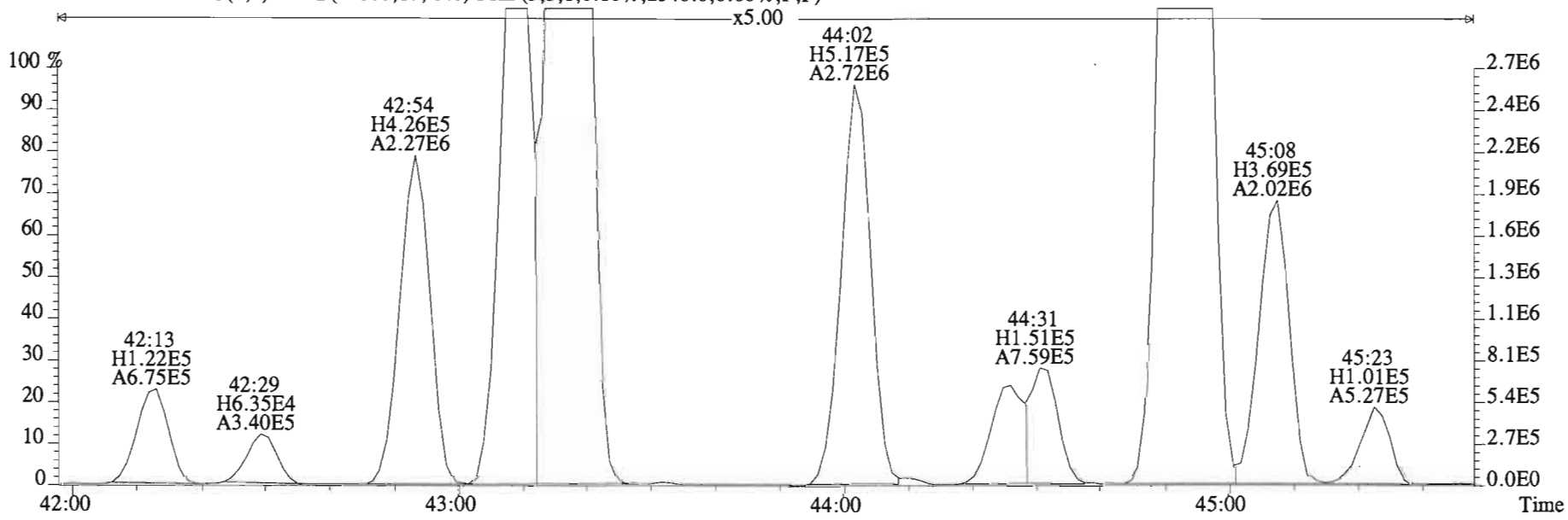
373.8788 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



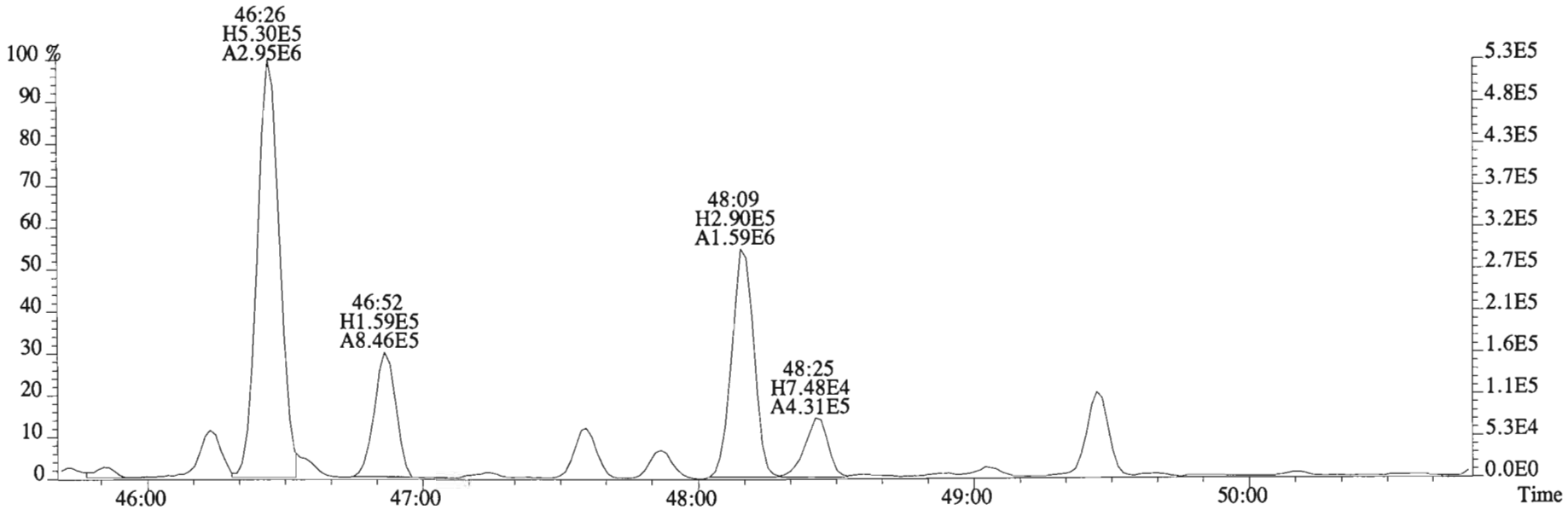
File:150205E1 #1-555 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
359.8415 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2936.0,0.00%,F,F)



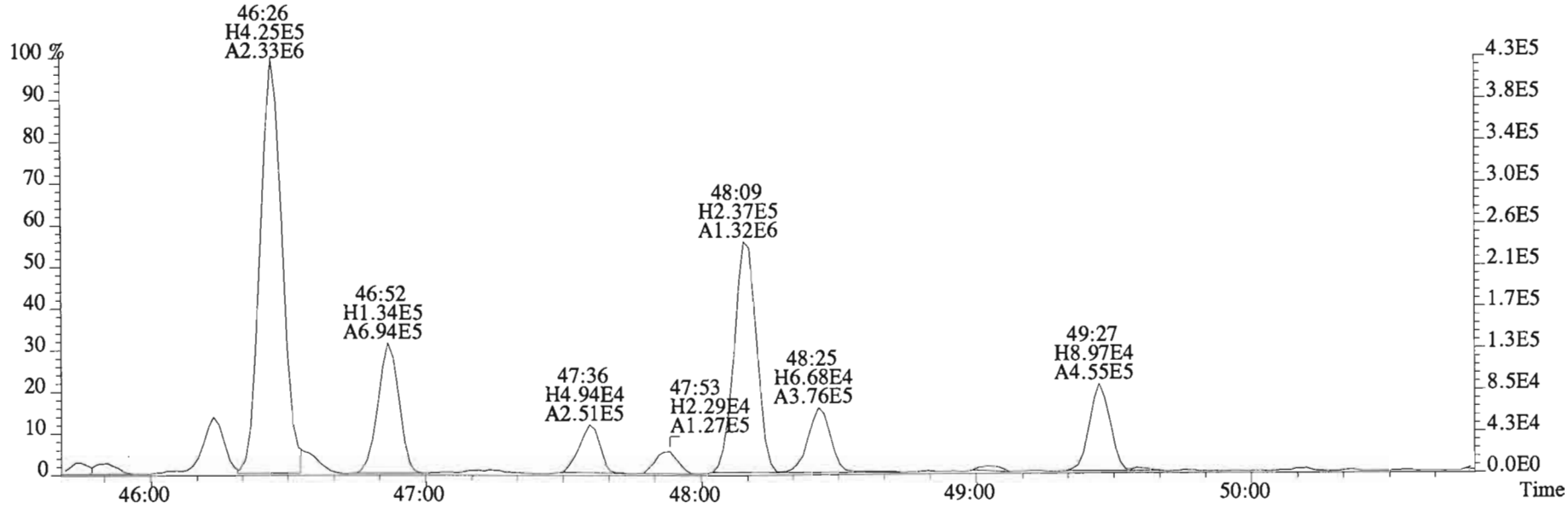
361.8385 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2340.0,0.00%,F,F)



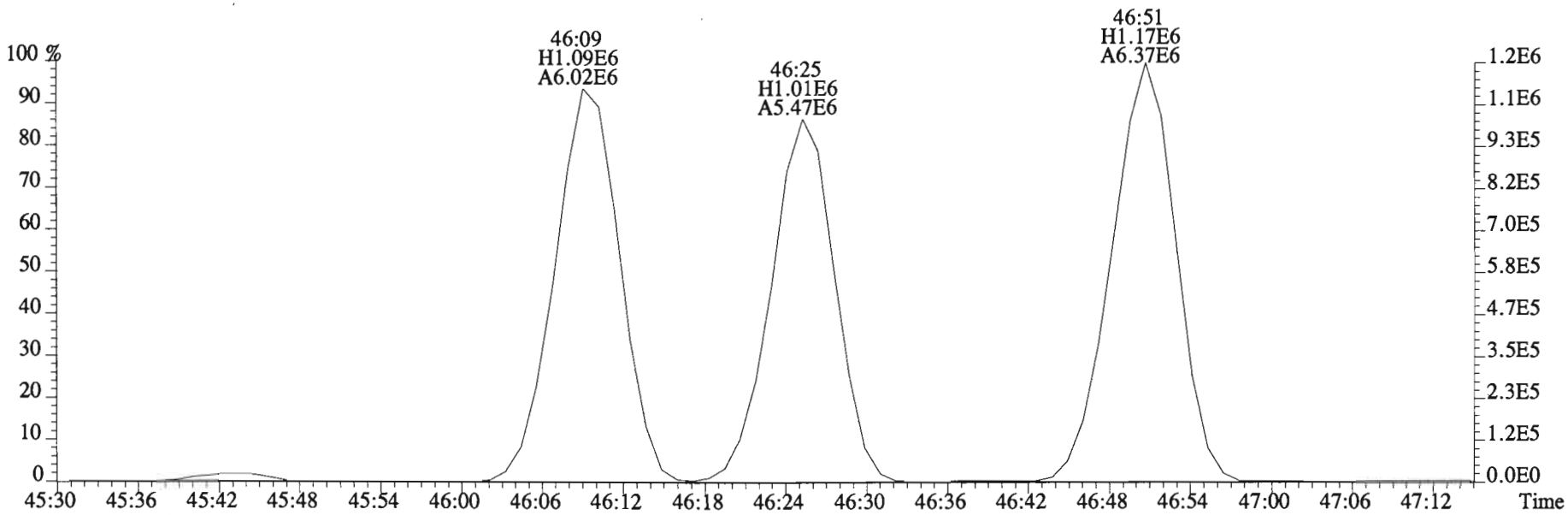
File:150205E1 #1-555 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
359.8415 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2936.0,0.00%,F,F)



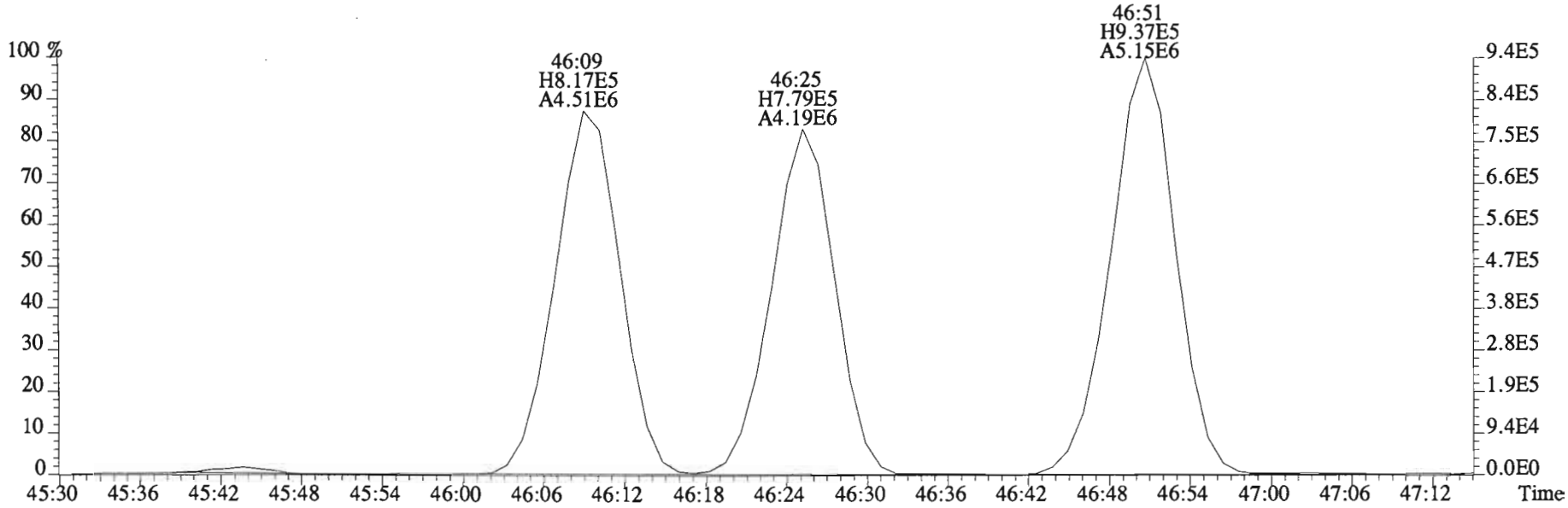
361.8385 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2340.0,0.00%,F,F)



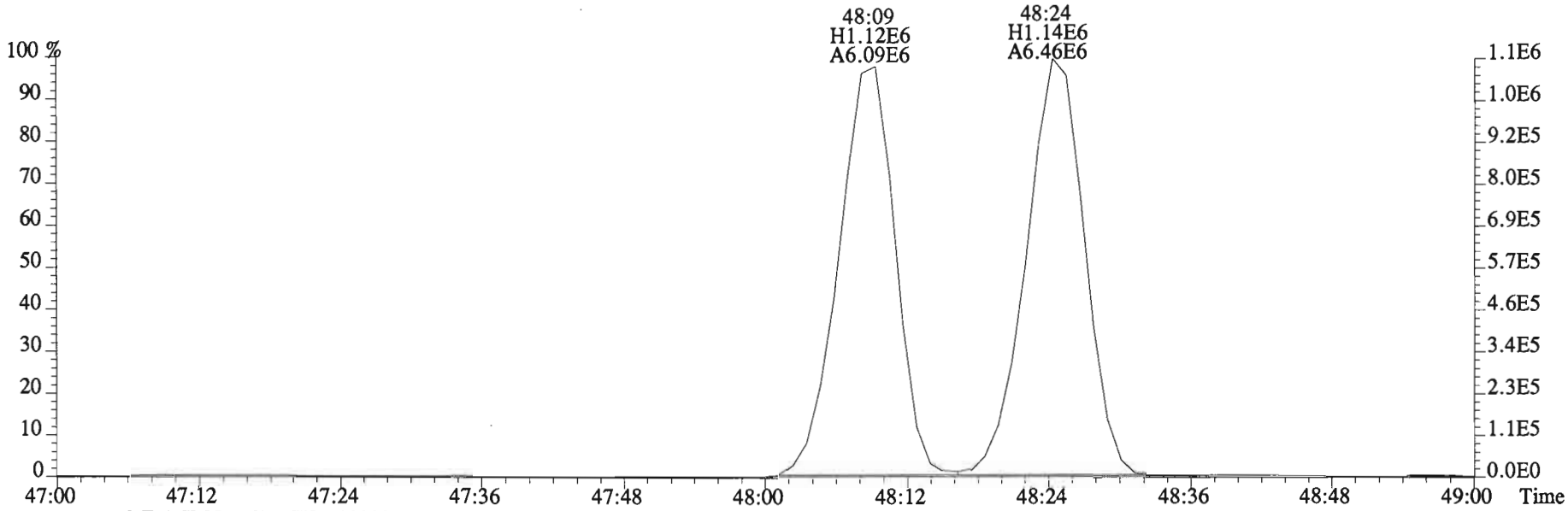
File:150205E1 #1-555 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
371.8817 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2640.0,0.00%,F,F)



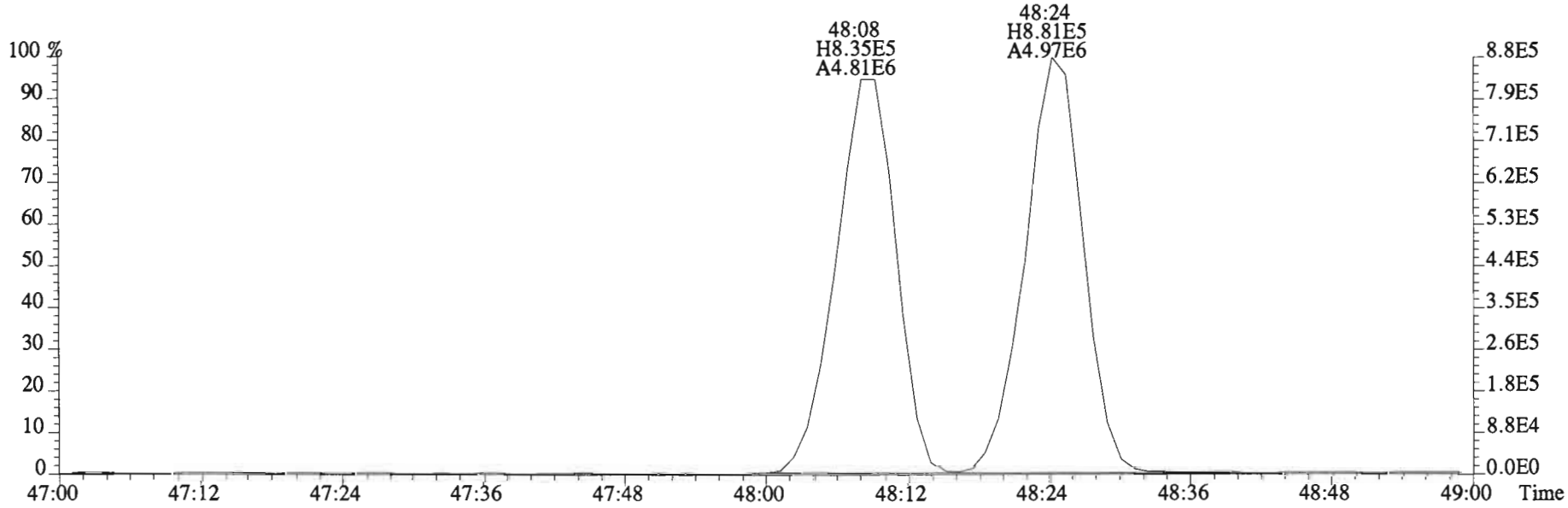
373.8788 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



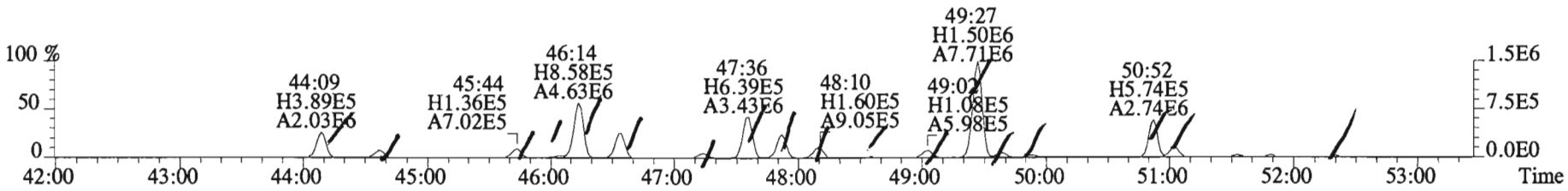
File:150205E1 #1-555 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
371.8817 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2640.0,0.00%,F,F)



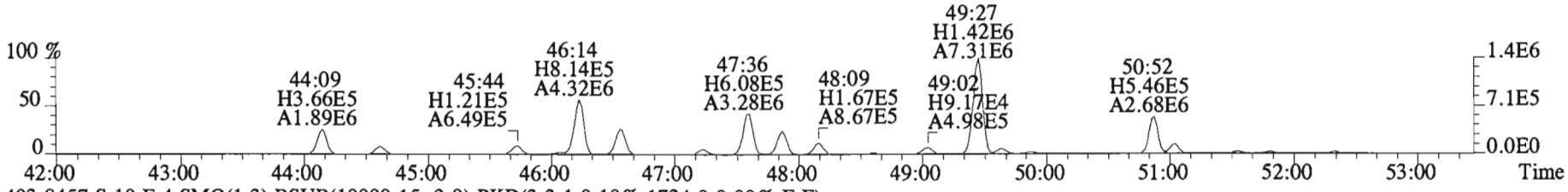
373.8788 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2600.0,0.00%,F,F)



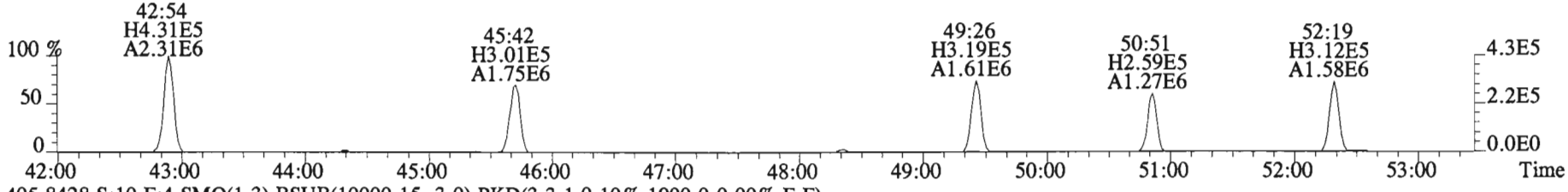
File:150205E1 #1-555 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
393.8025 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



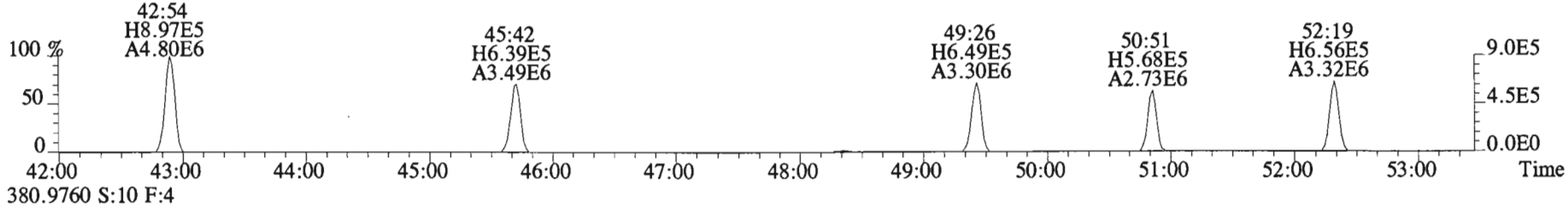
395.7995 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1848.0,0.00%,F,F)



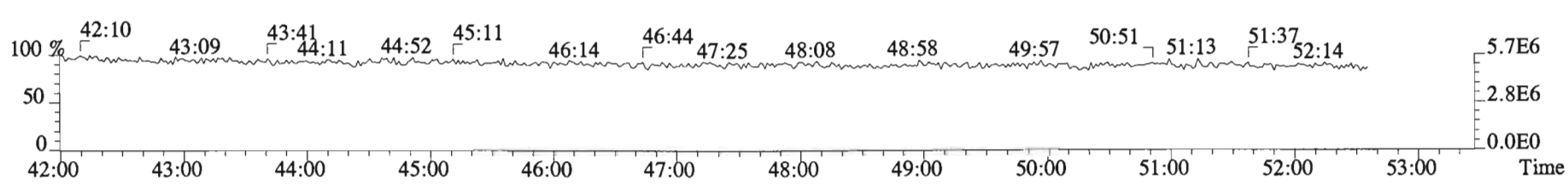
403.8457 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1724.0,0.00%,F,F)



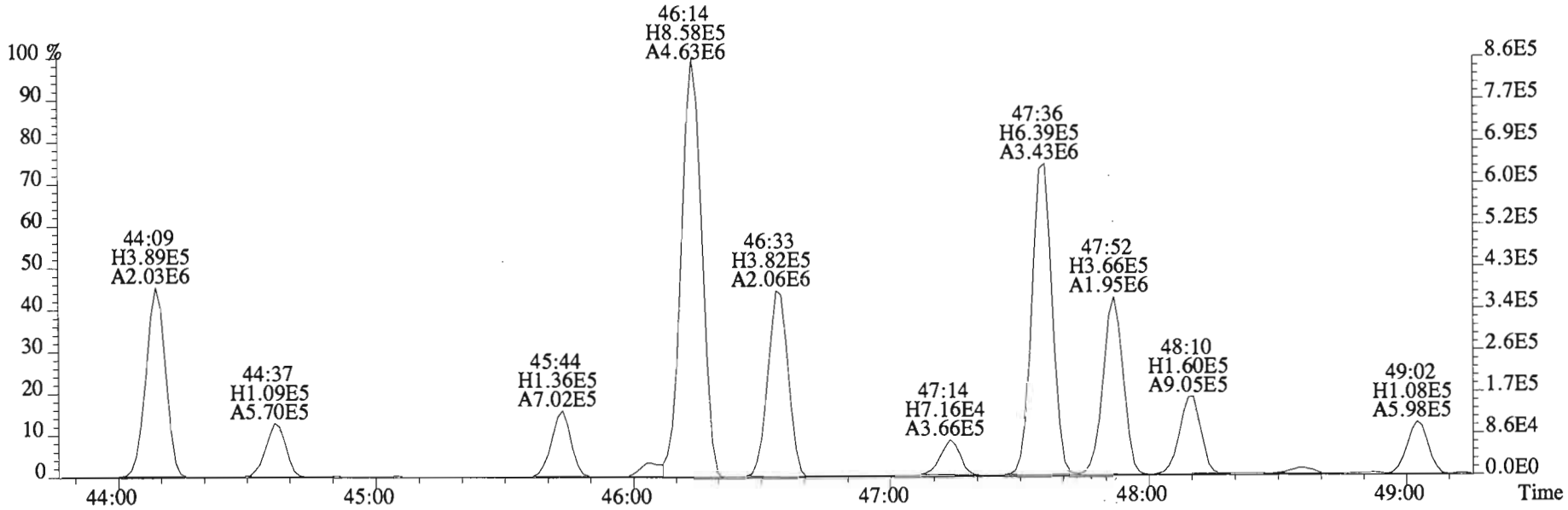
405.8428 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1900.0,0.00%,F,F)



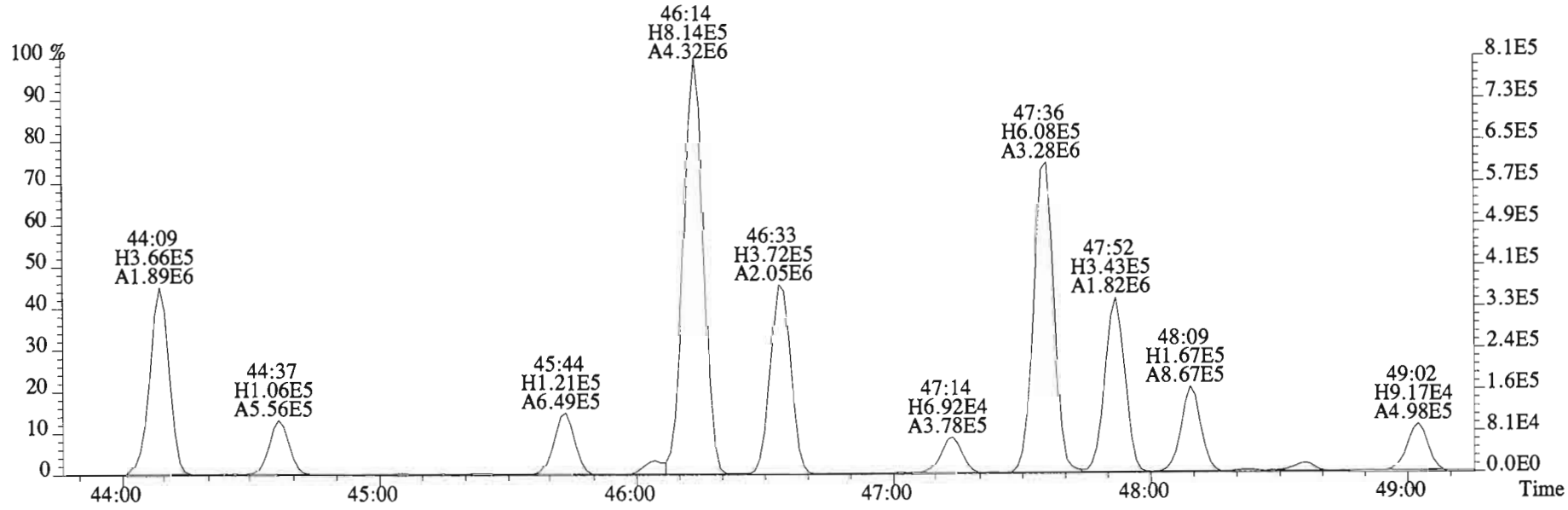
380.9760 S:10 F:4



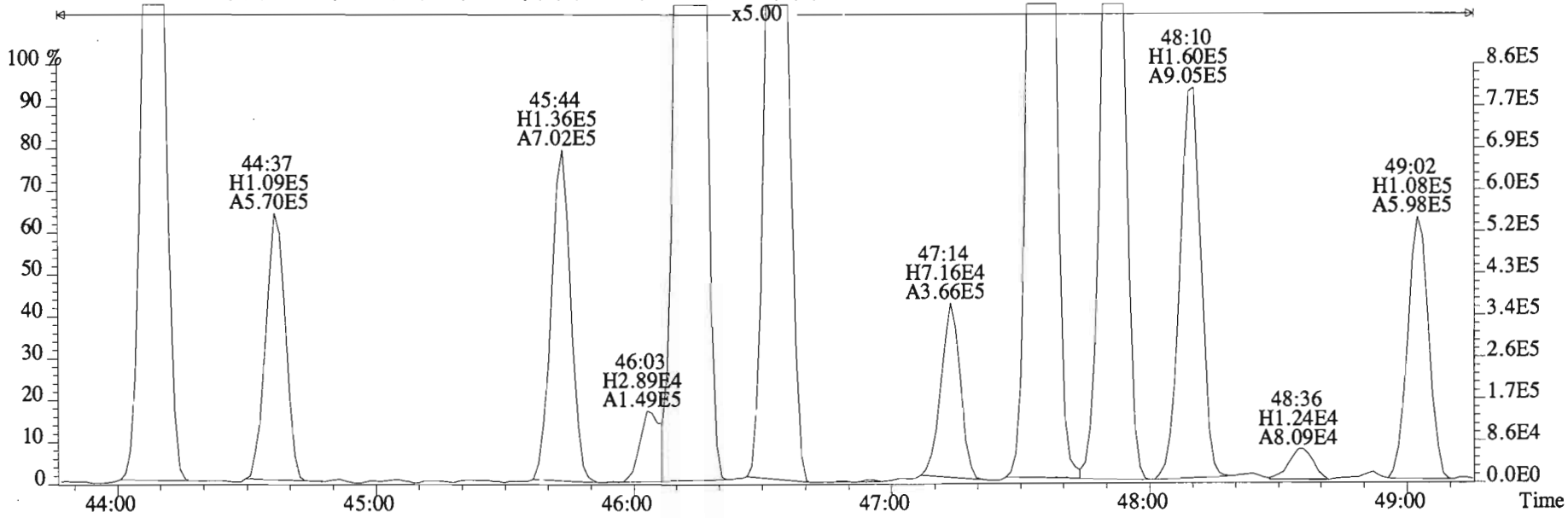
File:150205E1 #1-555 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
393.8025 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



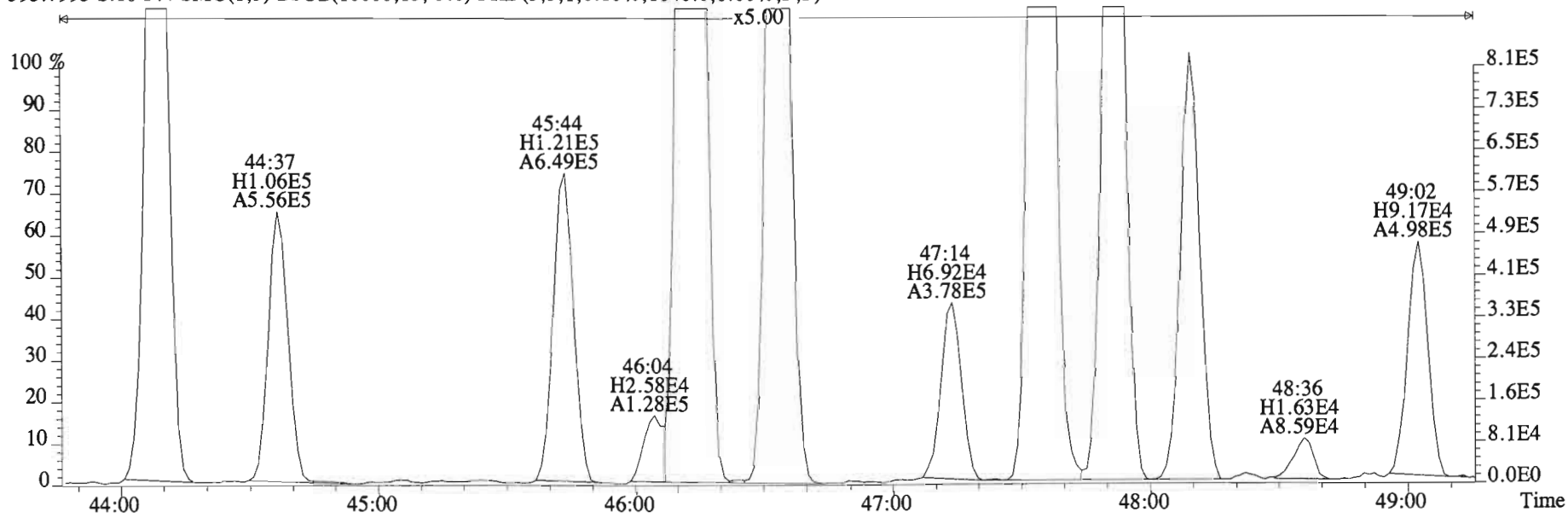
395.7995 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1848.0,0.00%,F,F)



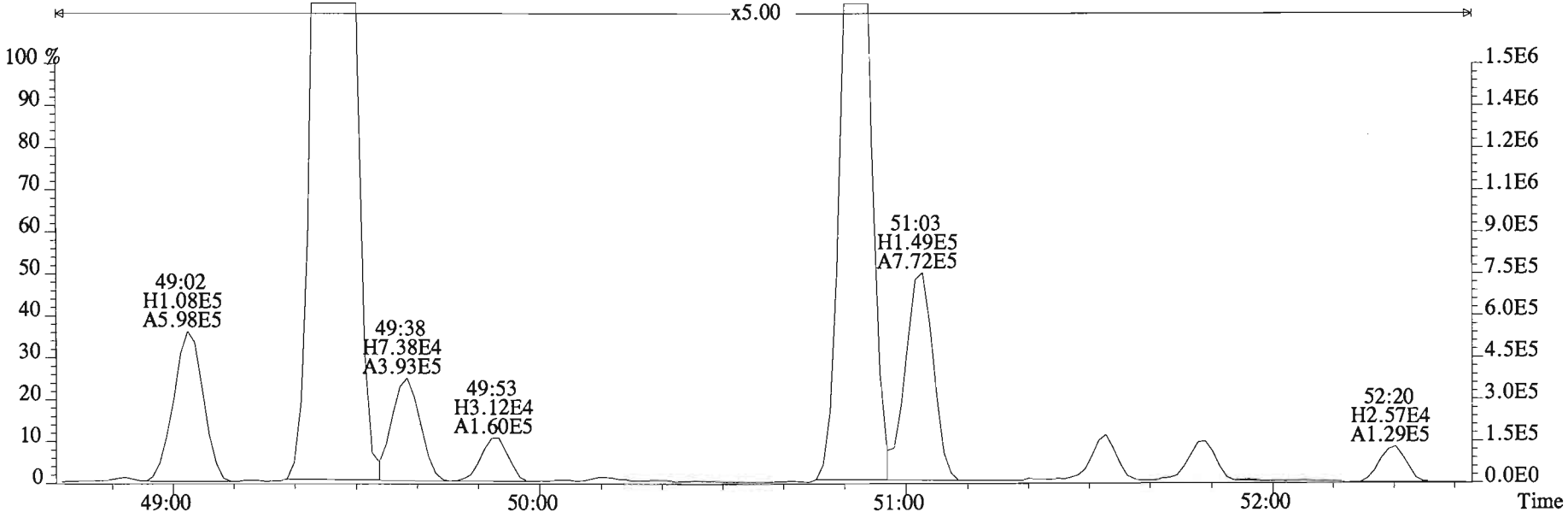
File:150205E1 #1-555 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
393.8025 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



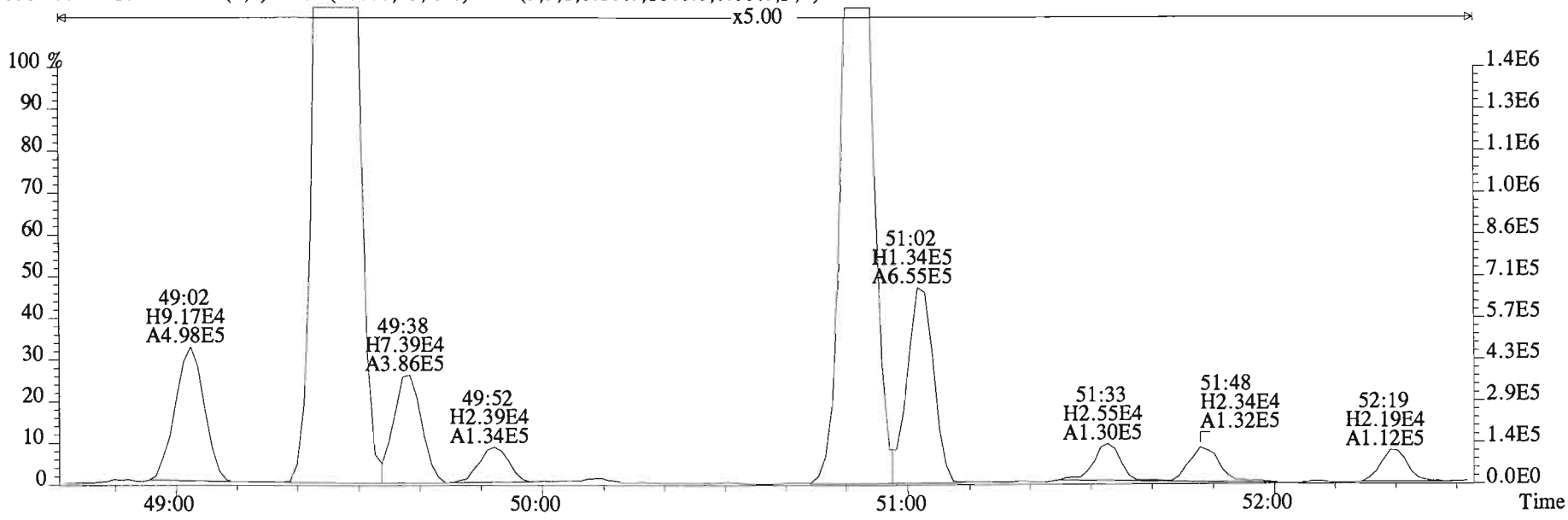
395.7995 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1848.0,0.00%,F,F)



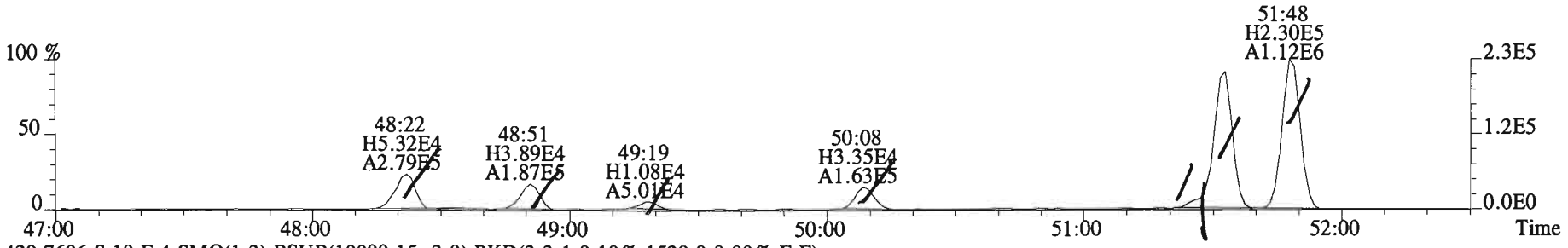
File:150205E1 #1-555 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
393.8025 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



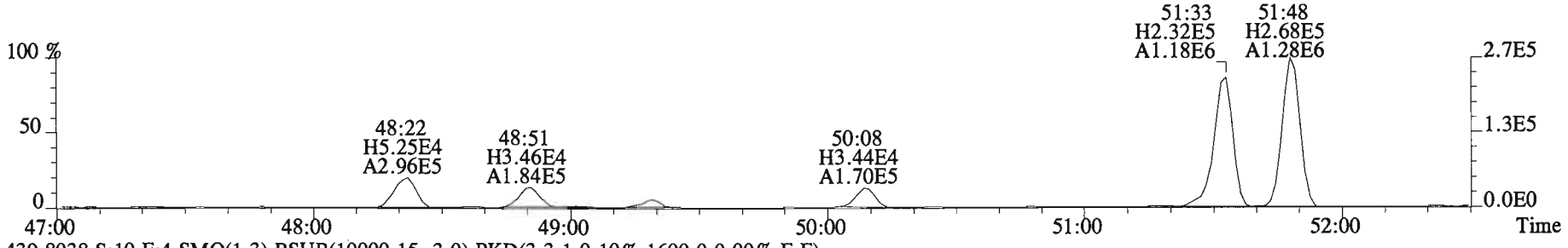
395.7995 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1848.0,0.00%,F,F)



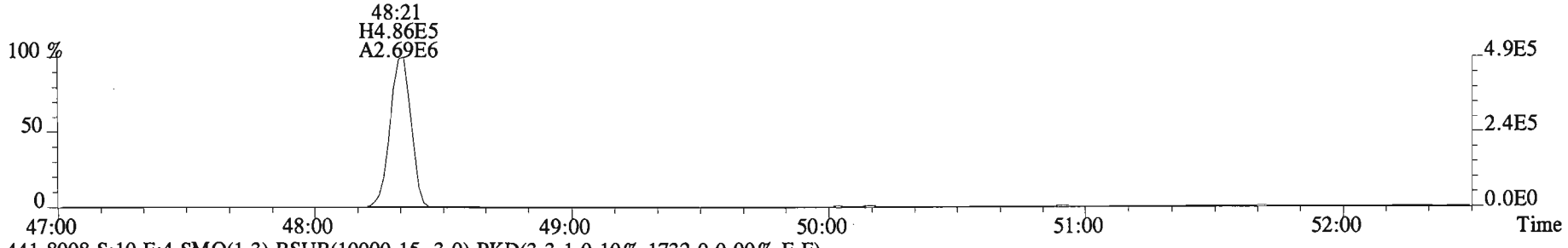
File:150205E1 #1-555 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
427.7635 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1492.0,0.00%,F,F)



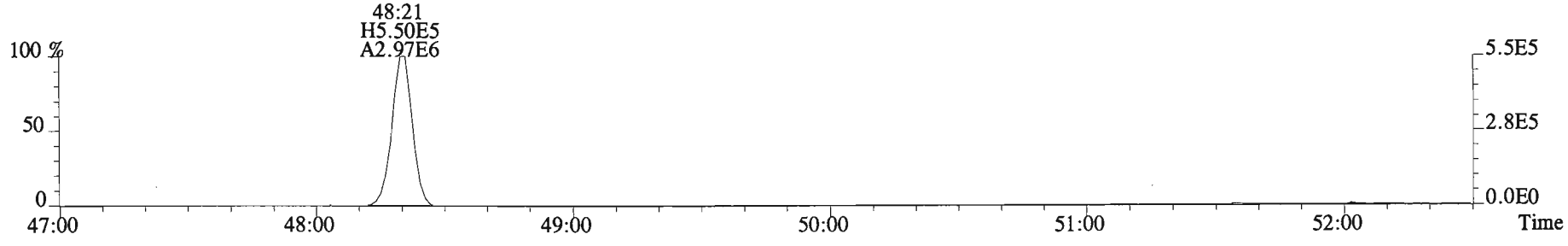
429.7606 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1528.0,0.00%,F,F)



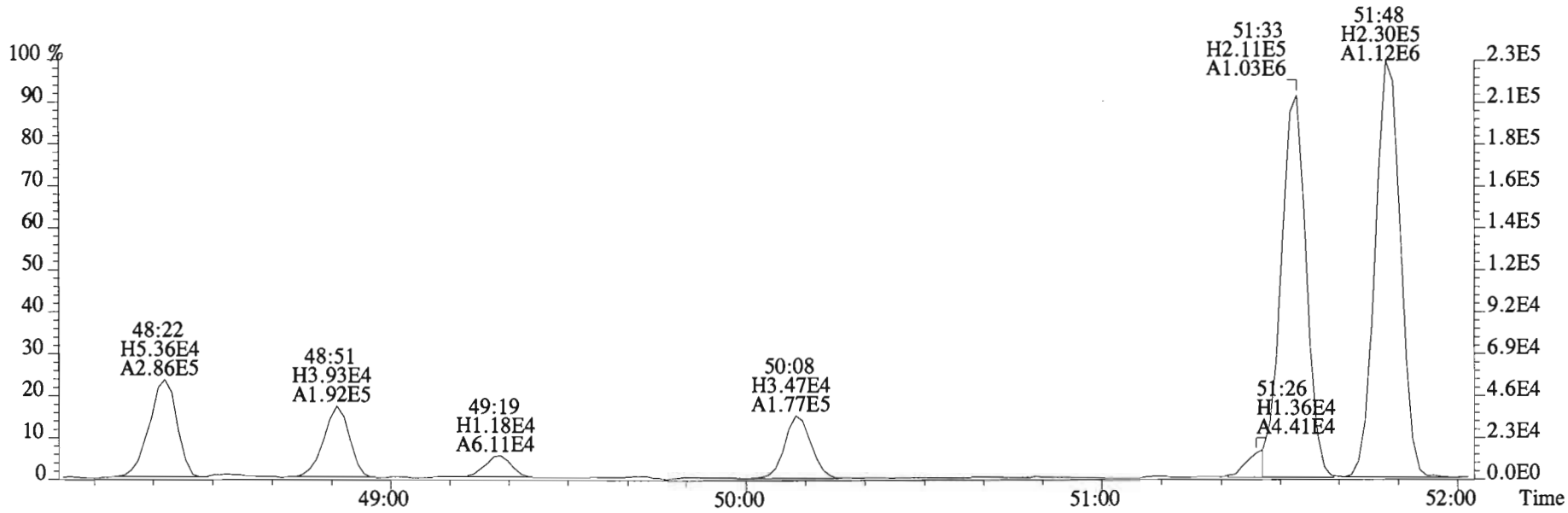
439.8038 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1600.0,0.00%,F,F)



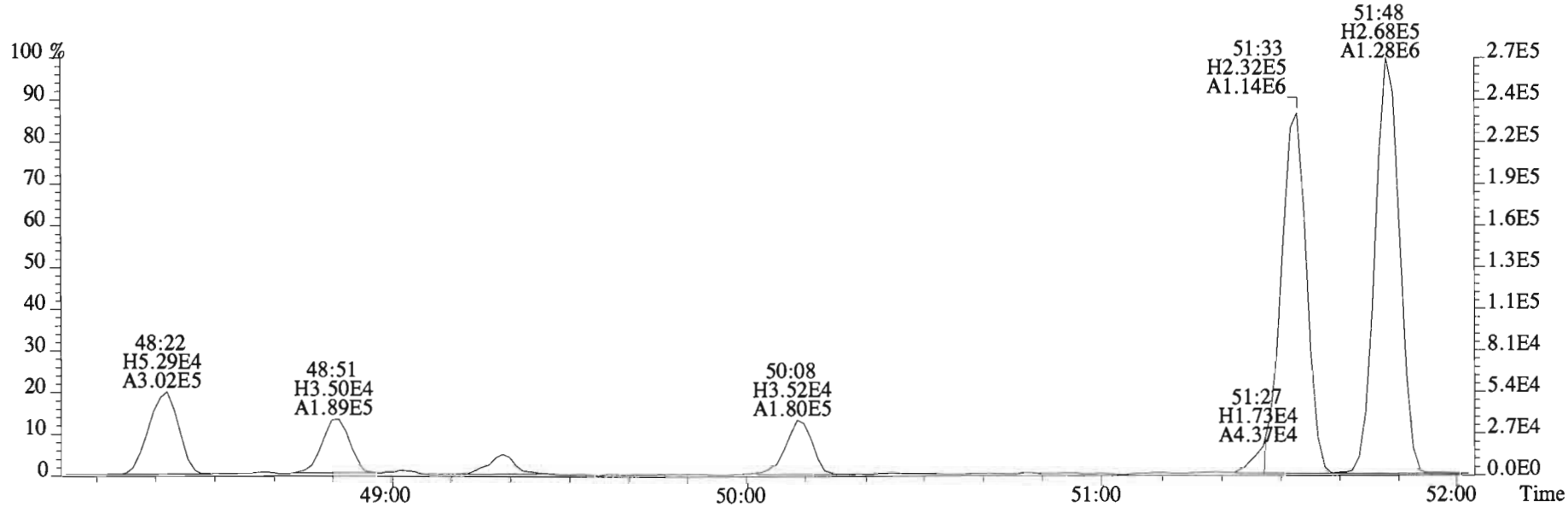
441.8008 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1732.0,0.00%,F,F)



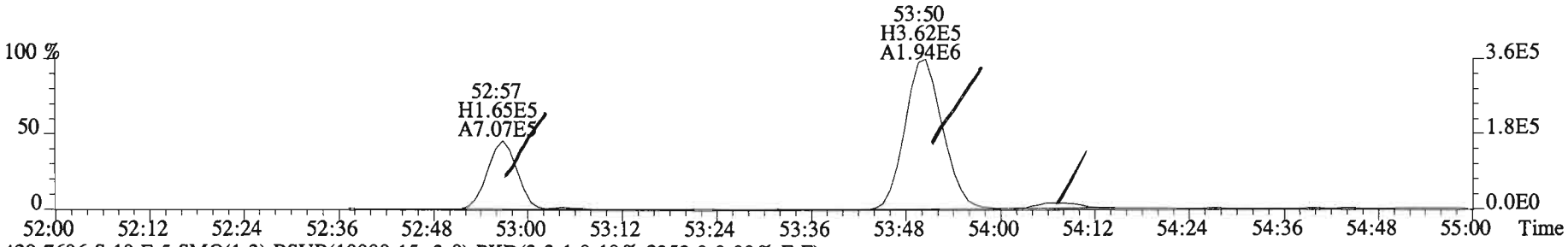
File:150205E1 #1-555 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
427.7635 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0)



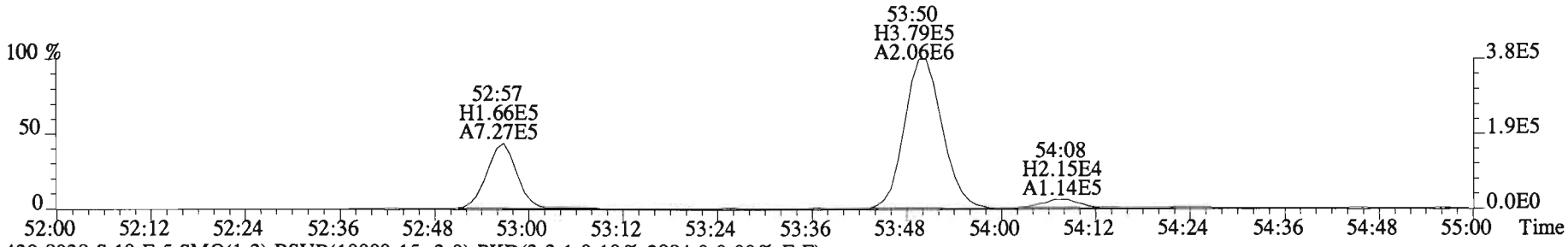
429.7606 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0)



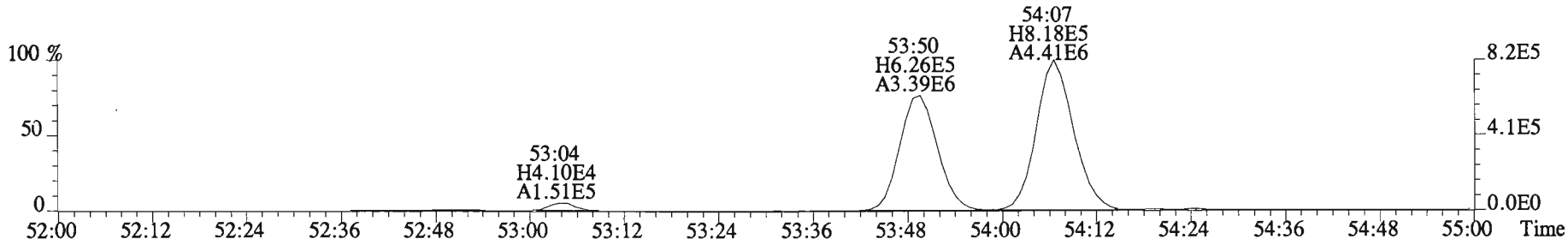
File:150205E1 #1-430 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
427.7635 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2260.0,0.00%,F,F)



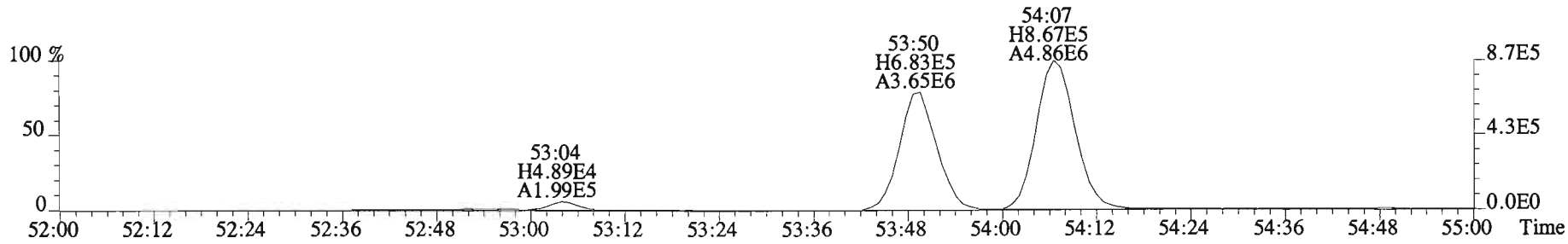
429.7606 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2352.0,0.00%,F,F)



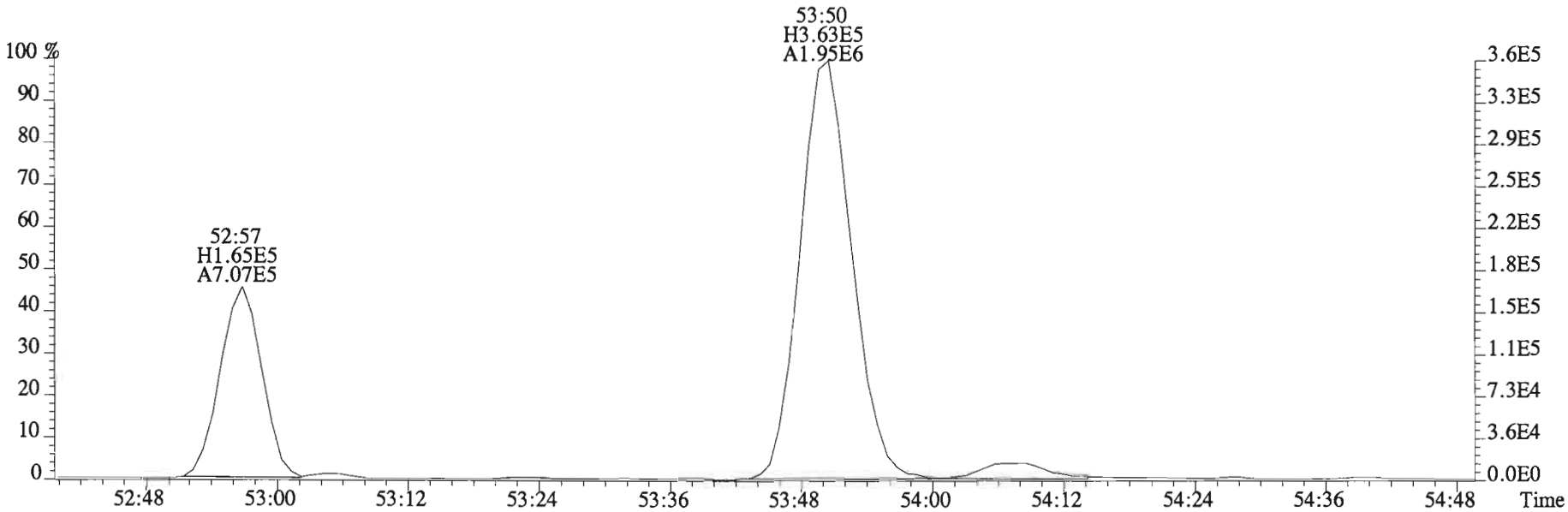
439.8038 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2984.0,0.00%,F,F)



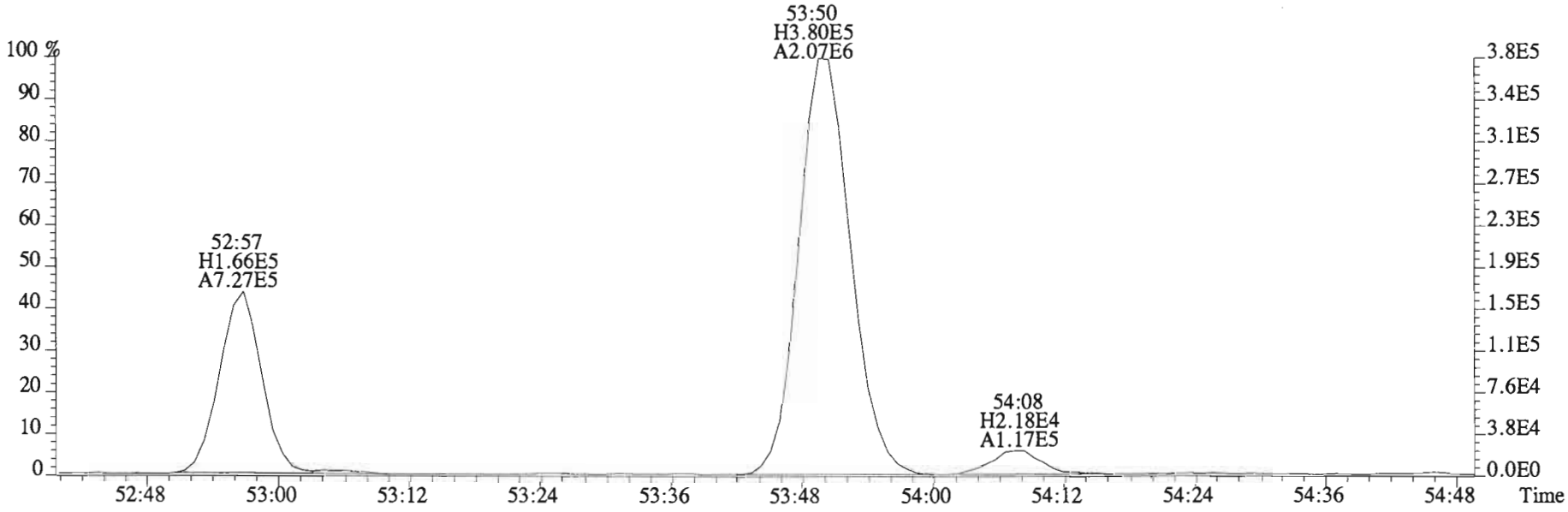
441.8008 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2420.0,0.00%,F,F)



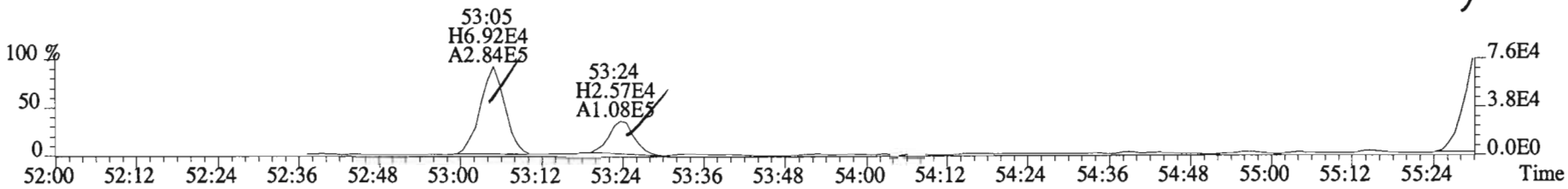
File:150205E1 #1-430 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
427.7635 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2260.0,0.00%,F,F)



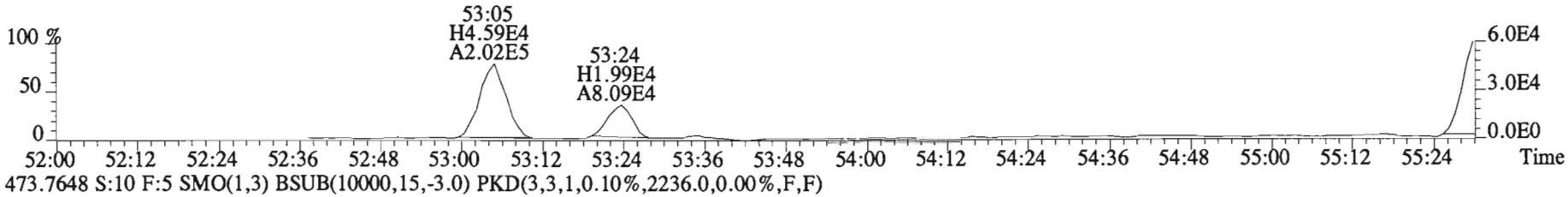
429.7606 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2352.0,0.00%,F,F)



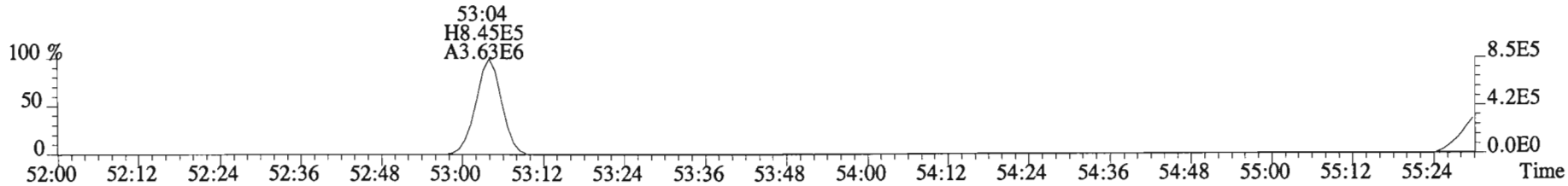
File:150205E1 #1-430 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
463.7216 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1760.0,0.00%,F,F)



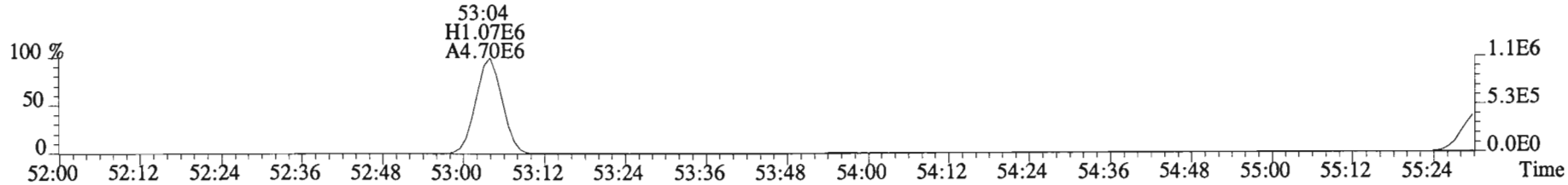
465.7186 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1696.0,0.00%,F,F)



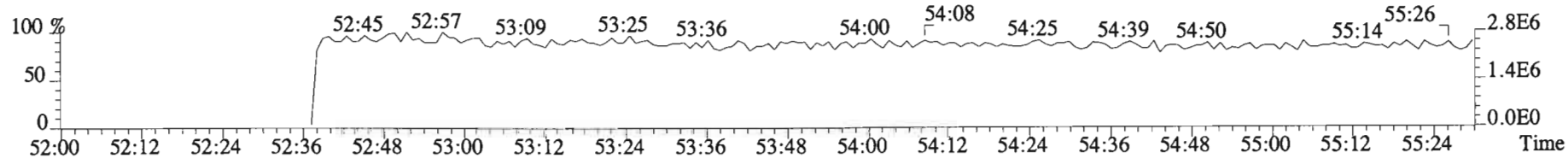
473.7648 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2236.0,0.00%,F,F)



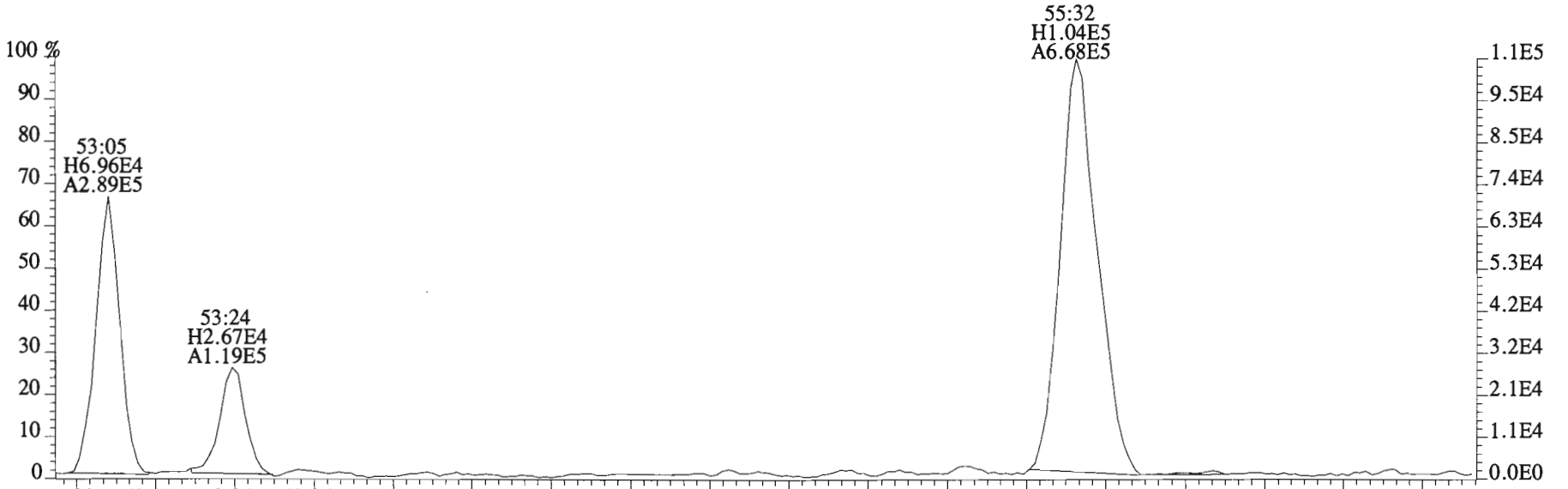
475.7619 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2776.0,0.00%,F,F)



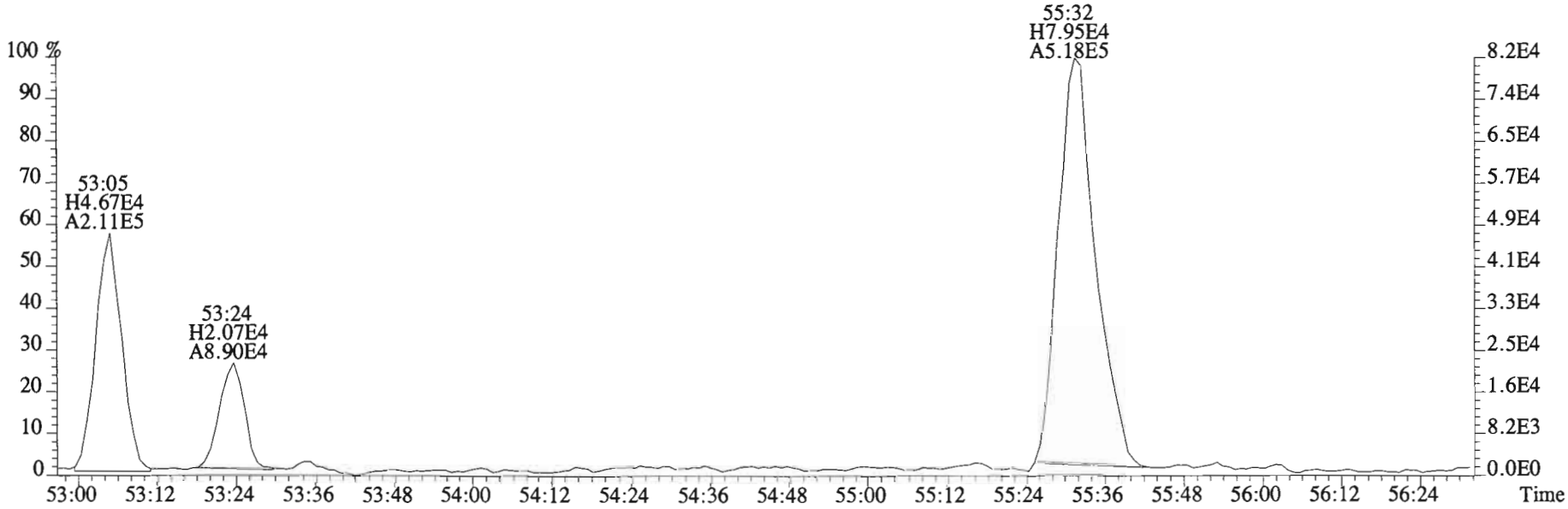
492.9697 S:10 F:5



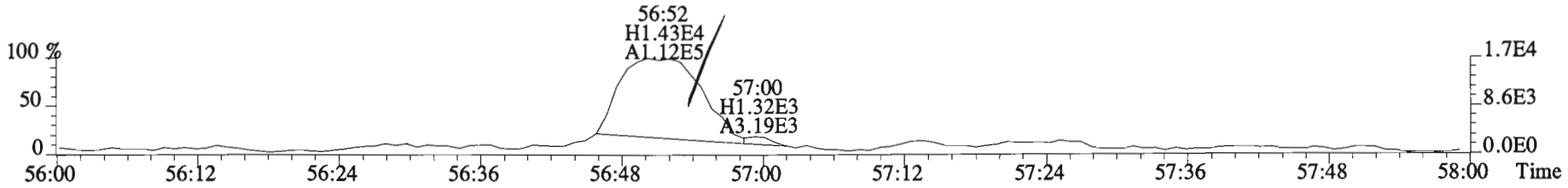
File:150205E1 #1-430 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
463.7216 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1760.0,0.00%,F,F)



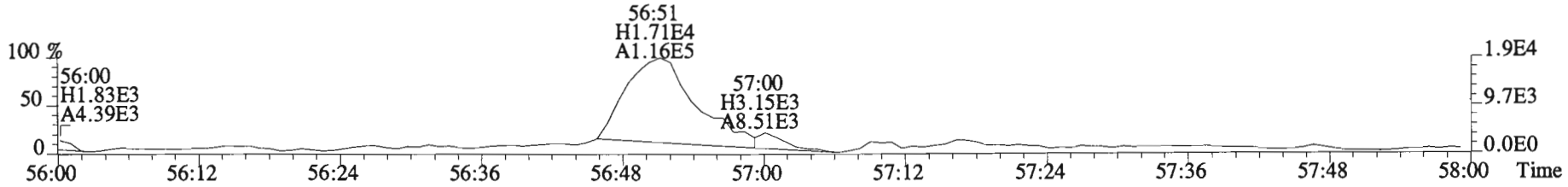
465.7186 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1696.0,0.00%,F,F)



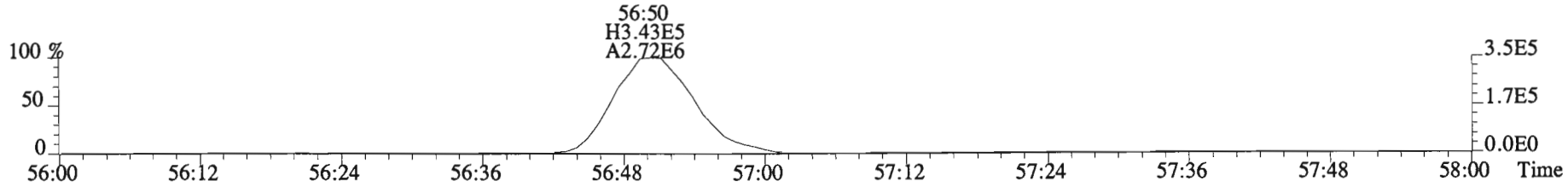
File:150205E1 #1-430 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
497.6826 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1572.0,0.00%,F,F)



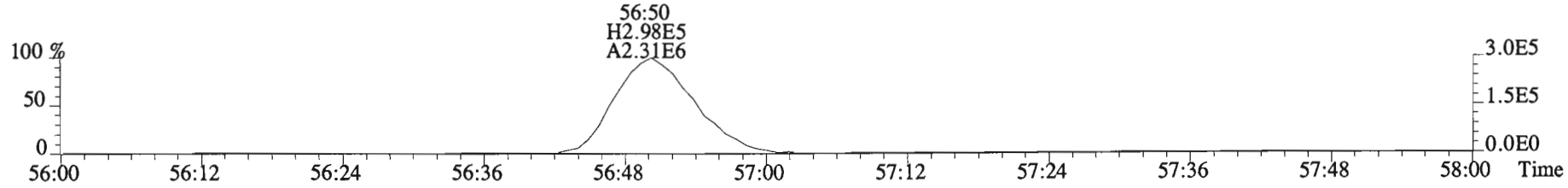
499.6797 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1784.0,0.00%,F,F)



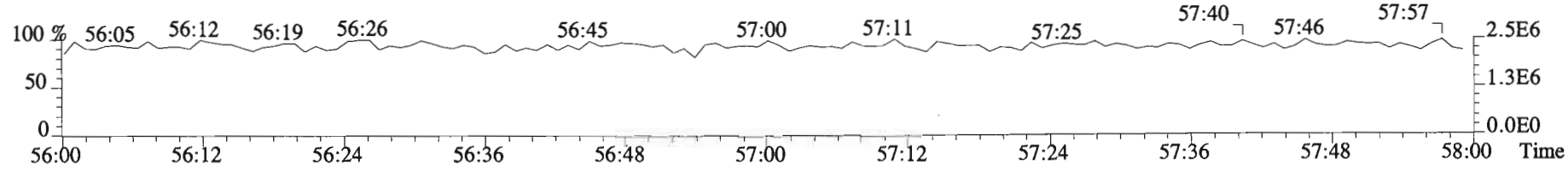
509.7229 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1576.0,0.00%,F,F)



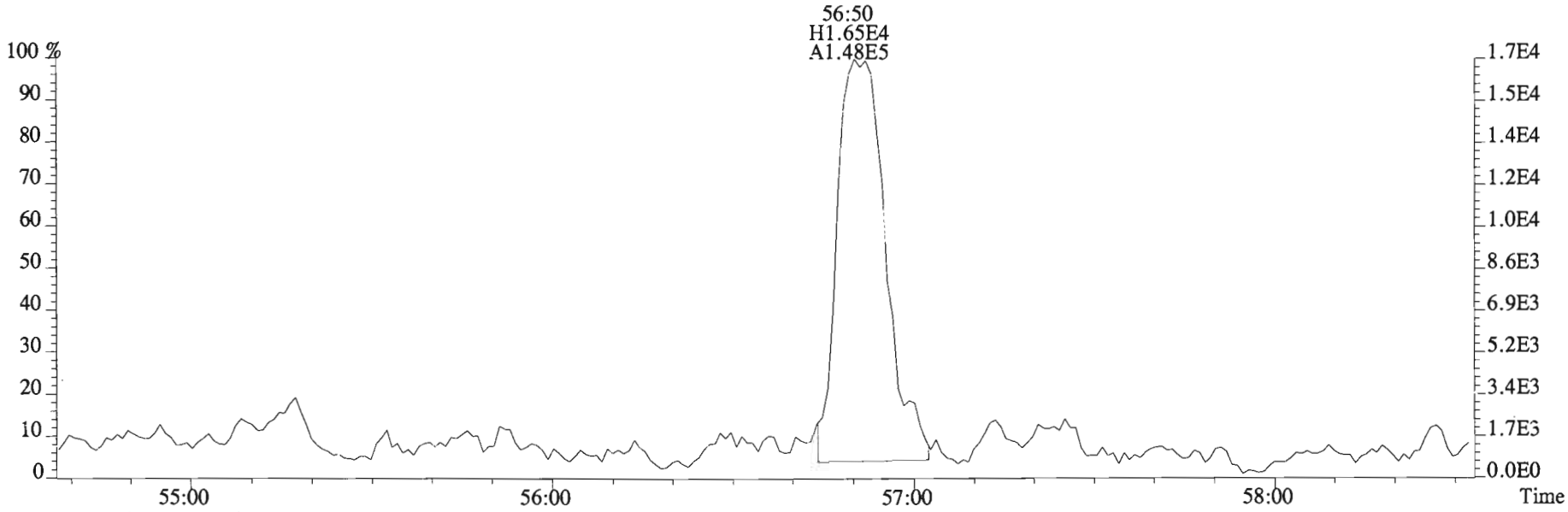
511.7199 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1380.0,0.00%,F,F)



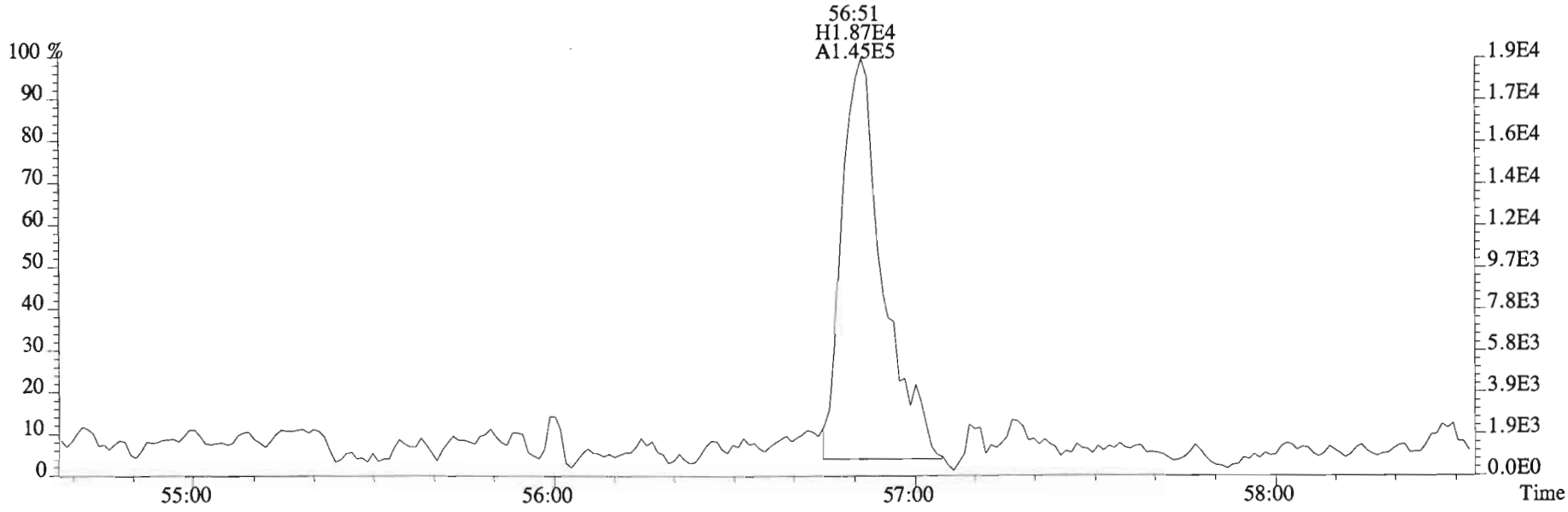
492.9697 S:10 F:5



File:150205E1 #1-430 Acq: 5-FEB-2015 18:36:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500108-03@10X AS-CB-UNR-20150120-S Exp:PCB_ZB1
497.6826 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1572.0,0.00%,F,F)



499.6797 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1784.0,0.00%,F,F)



Client ID: Method Blank
Lab ID: B5A0099-BLK1

Filename: 150127E1 S:4 Acq:27-JAN-15 13:52:29 ConCal: ST150127E1-1
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.000 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	*	*	n NotF¶	1.33	*		2050	2.5	3.07	*	0.997	1.007
Mono	PCB-2	*	*	n NotF¶	1.30	*		2050	2.5	2.92	*	0.983	0.993
Mono	PCB-3	*	*	n NotF¶	1.30	*		2050	2.5	2.91	*	0.996	1.006
Di	PCB-4/10	*	*	n NotF¶	1.67	*		4460	2.5	5.35	*	0.997	1.007
Di	PCB-7/9	*	*	n NotF¶	1.25	*		4460	2.5	4.58	*	0.864	0.872
Di	PCB-6	*	*	n NotF¶	1.24	*		4460	2.5	4.63	*	0.888	0.897
Di	PCB-5/8	*	*	n NotF¶	1.27	*		4460	2.5	4.52	*	0.905	0.915
Di	PCB-14	*	*	n NotF¶	1.47	*		4460	2.5	3.78	*	0.948	0.958
Di	PCB-11	*	*	n NotF¶	1.28	*		12400	2.5	12.0	*	0.995	1.005
Di	PCB-12/13	*	*	n NotF¶	1.27	*		4460	2.5	4.39	*	1.011	1.021
Di	PCB-15	*	*	n NotF¶	1.44	*		4460	2.5	3.86	*	1.023	1.031
Tri	PCB-19	*	*	n NotF¶	1.18	*		1810	2.5	2.35	*	0.996	1.006
Tri	PCB-30	*	*	n NotF¶	1.87	*		1810	2.5	1.48	*	1.033	1.043
Tri	PCB-18	*	*	n NotF¶	0.89	*		1810	2.5	2.16	*	0.949	0.959
Tri	PCB-17	*	*	n NotF¶	0.96	*		1810	2.5	2.00	*	0.956	0.966
Tri	PCB-24/27	*	*	n NotF¶	1.30	*		1810	2.5	1.47	*	0.977	0.987
Tri	PCB-16/32	*	*	n NotF¶	1.05	*		1810	2.5	1.83	*	0.996	1.006
Tri	PCB-34	*	*	n NotF¶	1.30	*		1960	2.5	2.40	*	0.955	0.965
Tri	PCB-23	*	*	n NotF¶	1.21	*		1960	2.5	2.58	*	0.958	0.968
Tri	PCB-29	*	*	n NotF¶	1.21	*		1960	2.5	2.58	*	0.967	0.977
Tri	PCB-26	*	*	n NotF¶	1.24	*		1960	2.5	2.52	*	0.974	0.984
Tri	PCB-25	*	*	n NotF¶	1.10	*		1960	2.5	2.85	*	0.980	0.990
Tri	PCB-31	*	*	n NotF¶	1.25	*		1960	2.5	2.50	*	0.992	1.002
Tri	PCB-28	*	*	n NotF¶	1.24	*		1960	2.5	2.52	*	0.996	1.006
Tri	PCB-20/21/33	*	*	n NotF¶	1.16	*		1960	2.5	2.70	*	1.016	1.026
Tri	PCB-22	*	*	n NotF¶	1.16	*		1960	2.5	2.68	*	1.032	1.042
Tri	PCB-36	*	*	n NotF¶	1.30	*		1960	2.5	2.57	*	0.929	0.939
Tri	PCB-39	*	*	n NotF¶	1.26	*		1960	2.5	2.65	*	0.943	0.953
Tri	PCB-38	*	*	n NotF¶	1.24	*		1960	2.5	2.69	*	0.967	0.977
Tri	PCB-35	*	*	n NotF¶	1.26	*		1960	2.5	2.66	*	0.982	0.992
Tri	PCB-37	*	*	n NotF¶	1.35	*		1960	2.5	2.48	*	0.996	1.006
Tetra	PCB-54	*	*	n NotF¶	1.02	*		2120	2.5	2.55	*	0.996	1.006
Tetra	PCB-50	*	*	n NotF¶	0.78	*		2120	2.5	3.35	*	1.037	1.047
Tetra	PCB-53	*	*	n NotF¶	1.14	*		2120	2.5	2.98	*	0.941	0.951
Tetra	PCB-51	*	*	n NotF¶	1.16	*		2120	2.5	2.92	*	0.952	0.962
Tetra	PCB-45	*	*	n NotF¶	1.04	*		2120	2.5	3.26	*	0.965	0.975
Tetra	PCB-46	*	*	n NotF¶	0.95	*		2120	2.5	3.57	*	0.981	0.991

Integrations by:

Analyst: DMS

Date: 1/29/15

Reviewed by: [signature] Date: 1/30/15

Client ID: Method Blank
Lab ID: B5A0099-BLK1

Filename: 150127E1 S:4 Acq:27-JAN-15 13:52:29
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.000

ConCal: ST150127E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	*	*	n NotF	1.29	*		2120	2.5	2.63	*	0.996	1.006
Tetra	PCB-73	*	*	n NotF	1.41	*		2120	2.5	2.40	*	0.999	1.009
Tetra	PCB-43/49	*	*	n NotF	1.14	*		2120	2.5	2.98	*	1.005	1.015
Tetra	PCB-47	*	*	n NotF	1.20	*		2120	2.5	2.75	*	0.996	1.006
Tetra	PCB-48/75	*	*	n NotF	1.33	*		2120	2.5	2.48	*	0.999	1.009
Tetra	PCB-65	*	*	n NotF	1.32	*		2120	2.5	2.50	*	1.007	1.017
Tetra	PCB-62	*	*	n NotF	1.36	*		2120	2.5	2.42	*	1.011	1.021
Tetra	PCB-44	*	*	n NotF	0.87	*		2120	2.5	3.78	*	1.020	1.030
Tetra	PCB-42/59	*	*	n NotF	1.24	*		2120	2.5	2.66	*	1.027	1.037
Tetra	PCB-41/64/71/72	*	*	n NotF	1.34	*		2120	2.5	2.46	*	1.045	1.055
Tetra	PCB-68	*	*	n NotF	1.61	*		2120	2.5	2.05	*	1.053	1.063
Tetra	PCB-40	*	*	n NotF	0.86	*		2120	2.5	3.84	*	1.061	1.071
Tetra	PCB-57	*	*	n NotF	1.12	*		2120	2.5	2.21	*	0.965	0.975
Tetra	PCB-67	*	*	n NotF	1.09	*		2120	2.5	2.27	*	0.974	0.984
Tetra	PCB-58	*	*	n NotF	1.14	*		2120	2.5	2.18	*	0.977	0.987
Tetra	PCB-63	*	*	n NotF	1.16	*		2120	2.5	2.13	*	0.981	0.991
Tetra	PCB-74	*	*	n NotF	1.21	*		2120	2.5	2.04	*	0.989	0.999
Tetra	PCB-61/70	*	*	n NotF	1.13	*		2120	2.5	2.20	*	0.995	1.005
Tetra	PCB-76/66	*	*	n NotF	1.18	*		2120	2.5	2.10	*	1.000	1.010
Tetra	PCB-80	*	*	n NotF	1.32	*		2120	2.5	1.84	*	0.995	1.005
Tetra	PCB-55	*	*	n NotF	1.23	*		2120	2.5	1.98	*	1.004	1.014
Tetra	PCB-56/60	*	*	n NotF	1.11	*		2120	2.5	2.21	*	1.018	1.028
Tetra	PCB-79	*	*	n NotF	1.16	*		2120	2.5	2.10	*	1.048	1.058
Tetra	PCB-78	*	*	n NotF	1.18	*		2120	2.5	2.07	*	0.982	0.992
Tetra	PCB-81	*	*	n NotF	1.29	*		2120	2.5	1.89	*	0.995	1.005
Tetra	PCB-77	*	*	n NotF	1.29	*		2120	2.5	1.92	*	0.995	1.005
Penta	PCB-104	*	*	n NotF	1.26	*		1390	2.5	2.62	*	0.996	1.006
Penta	PCB-96	*	*	n NotF	1.09	*		1390	2.5	3.03	*	1.034	1.044
Penta	PCB-103	*	*	n NotF	0.97	*		1390	2.5	3.42	*	1.051	1.061
Penta	PCB-100	*	*	n NotF	0.96	*		1390	2.5	3.43	*	1.061	1.071
Penta	PCB-94	*	*	n NotF	1.13	*		1390	2.5	3.79	*	0.980	0.990
Penta	PCB-95/98/102	*	*	n NotF	1.29	*		1390	2.5	3.33	*	0.994	1.004
Penta	PCB-93	*	*	n NotF	1.06	*		1390	2.5	4.04	*	0.998	1.008
Penta	PCB-88/91	*	*	n NotF	1.12	*		1390	2.5	3.81	*	1.006	1.016
Penta	PCB-121	*	*	n NotF	1.76	*		1390	2.5	2.43	*	1.009	1.019
Penta	PCB-84/92	*	*	n NotF	1.07	*		1390	2.5	3.47	*	0.985	0.995
Penta	PCB-89	*	*	n NotF	1.00	*		1390	2.5	3.73	*	0.990	1.000

Analyst: DMS

Date: 1/29/15

Client ID: Method Blank
Lab ID: B5A0099-BLK1

Filename: 150127E1 S:4 Acq:27-JAN-15 13:52:29
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.000

ConCal: ST150127E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	*	*	n NotF	1.21	*		1390	2.5	3.08	*	0.995	1.005
Penta	PCB-113	*	*	n NotF	1.34	*		1390	2.5	2.77	*	1.002	1.012
Penta	PCB-99	*	*	n NotF	1.25	*		1390	2.5	2.97	*	1.004	1.014
Penta	PCB-119	*	*	n NotF	1.88	*		1390	2.5	2.18	*	0.982	0.992
Penta	PCB-108/112	*	*	n NotF	1.41	*		1390	2.5	2.92	*	0.986	0.996
Penta	PCB-83	*	*	n NotF	1.66	*		1390	2.5	2.47	*	0.990	1.000
Penta	PCB-97	*	*	n NotF	1.30	*		1390	2.5	3.16	*	0.995	1.005
Penta	PCB-86	*	*	n NotF	1.03	*		1390	2.5	3.97	*	0.999	1.009
Penta	PCB-87/117/125	*	*	n NotF	1.59	*		1390	2.5	2.58	*	1.002	1.012
Penta	PCB-111/115	*	*	n NotF	1.86	*		1390	2.5	2.21	*	1.006	1.016
Penta	PCB-85/116	*	*	n NotF	1.39	*		1390	2.5	2.95	*	1.010	1.020
Penta	PCB-120	*	*	n NotF	1.99	*		1390	2.5	2.07	*	1.016	1.026
Penta	PCB-110	*	*	n NotF	1.70	*		1390	2.5	2.41	*	1.019	1.029
Penta	PCB-82	*	*	n NotF	0.74	*		1390	2.5	4.06	*	0.971	0.981
Penta	PCB-124	*	*	n NotF	1.30	*		1390	2.5	2.31	*	0.988	0.998
Penta	PCB-107/109	*	*	n NotF	1.34	*		1390	2.5	2.26	*	0.991	1.001
Penta	PCB-123	*	*	n NotF	1.25	*		1390	2.5	2.41	*	0.995	1.005
Penta	PCB-106/118	*	*	n NotF	1.29	*		1390	2.5	2.39	*	0.996	1.006
Penta	PCB-114	*	*	n NotF	1.45	*		905	2.5	1.35	*	0.995	1.005
Penta	PCB-122	*	*	n NotF	1.22	*		905	2.5	1.61	*	0.999	1.009
Penta	PCB-105	*	*	n NotF	1.56	*		905	2.5	1.27	*	0.995	1.005
Penta	PCB-127	*	*	n NotF	1.31	*		905	2.5	1.44	*	0.995	1.005
Penta	PCB-126	*	*	n NotF	1.41	*		905	2.5	1.43	*	0.995	1.005
Hexa	PCB-155	*	*	n NotF	1.20	*		683	2.5	1.35	*	0.966	1.006
Hexa	PCB-150	*	*	n NotF	1.13	*		683	2.5	1.44	*	1.030	1.040
Hexa	PCB-152	*	*	n NotF	1.17	*		683	2.5	1.39	*	1.043	1.053
Hexa	PCB-145	*	*	n NotF	1.09	*		683	2.5	1.48	*	1.055	1.065
Hexa	PCB-136	*	*	n NotF	1.14	*		683	2.5	1.42	*	1.063	1.073
Hexa	PCB-148	*	*	n NotF	0.82	*		683	2.5	1.98	*	1.066	1.076
Hexa	PCB-154	*	*	n NotF	0.89	*		683	2.5	1.82	*	1.079	1.089
Hexa	PCB-151	*	*	n NotF	0.82	*		683	2.5	1.98	*	1.097	1.107
Hexa	PCB-135	*	*	n NotF	0.80	*		683	2.5	2.04	*	1.101	1.113
Hexa	PCB-144	*	*	n NotF	0.86	*		683	2.5	1.90	*	1.105	1.116
Hexa	PCB-147	*	*	n NotF	0.78	*		683	2.5	2.08	*	1.108	1.120
Hexa	PCB-139/149	*	*	n NotF	0.87	*		683	2.5	1.86	*	1.115	1.127
Hexa	PCB-140	*	*	n NotF	0.78	*		683	2.5	2.09	*	1.120	1.132
Hexa	PCB-134/143	*	*	n NotF	0.93	*		1050	2.5	2.01	*	0.970	0.980

Analyst: DMJ

Date: 1/29/15

Client ID: Method Blank
Lab ID: B5A0099-BLK1

Filename: 150127E1 S:4 Acq:27-JAN-15 13:52:29
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.000

ConCal: ST150127E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	*	*	n NotF¶	0.91	*		1050	2.5	2.06	*	0.977	0.987
Hexa	PCB-131	*	*	n NotF¶	0.85	*		1050	2.5	2.22	*	0.981	0.991
Hexa	PCB-146/165	*	*	n NotF¶	1.08	*		1050	2.5	1.73	*	0.986	0.996
Hexa	PCB-132/161	*	*	n NotF¶	1.12	*		1050	2.5	1.67	*	0.992	1.002
Hexa	PCB-153	*	*	n NotF¶	1.20	*		1050	2.5	1.56	*	0.996	1.006
Hexa	PCB-168	*	*	n NotF¶	1.36	*		1050	2.5	1.38	*	1.000	1.010
Hexa	PCB-141	*	*	n NotF¶	1.16	*		1050	2.5	1.81	*	0.995	1.005
Hexa	PCB-137	*	*	n NotF¶	1.18	*		1050	2.5	1.78	*	1.004	1.014
Hexa	PCB-130	*	*	n NotF¶	0.92	*		1050	2.5	2.28	*	1.006	1.016
Hexa	PCB-138/163/164	*	*	n NotF¶	1.38	*		1050	2.5	1.44	*	0.996	1.006
Hexa	PCB-158/160	*	*	n NotF¶	1.48	*		1050	2.5	1.34	*	1.001	1.011
Hexa	PCB-129	*	*	n NotF¶	0.99	*		1050	2.5	2.00	*	1.007	1.017
Hexa	PCB-166	*	*	n NotF¶	1.14	*		1050	2.5	1.42	*	0.988	0.998
Hexa	PCB-159	*	*	n NotF¶	1.22	*		1050	2.5	1.33	*	0.995	1.005
Hexa	PCB-128/162	*	*	n NotF¶	1.03	*		1050	2.5	1.57	*	1.002	1.012
Hexa	PCB-167	*	*	n NotF¶	1.18	*		1050	2.5	1.36	*	0.995	1.005
Hexa	PCB-156	*	*	n NotF¶	1.27	*		1050	2.5	1.26	*	0.995	1.005
Hexa	PCB-157	*	*	n NotF¶	1.22	*		1050	2.5	1.29	*	0.995	1.005
Hexa	PCB-169	*	*	n NotF¶	1.07	*		1050	2.5	1.36	*	0.995	1.005
Hepta	PCB-188	*	*	n NotF¶	1.52	*		991	2.5	1.01	*	0.996	1.006
Hepta	PCB-184	*	*	n NotF¶	1.34	*		991	2.5	1.15	*	1.006	1.016
Hepta	PCB-179	*	*	n NotF¶	1.39	*		991	2.5	1.11	*	1.024	1.034
Hepta	PCB-176	*	*	n NotF¶	1.45	*		991	2.5	1.06	*	1.035	1.045
Hepta	PCB-186	*	*	n NotF¶	1.46	*		991	2.5	1.06	*	1.049	1.059
Hepta	PCB-178	*	*	n NotF¶	1.07	*		991	2.5	1.43	*	1.061	1.071
Hepta	PCB-175	*	*	n NotF¶	1.05	*		991	2.5	1.47	*	1.069	1.079
Hepta	PCB-182/187	*	*	n NotF¶	1.14	*		991	2.5	1.36	*	1.073	1.083
Hepta	PCB-183	*	*	n NotF¶	1.22	*		991	2.5	1.26	*	1.080	1.090
Hepta	PCB-185	*	*	n NotF¶	1.40	*		991	2.5	1.18	*	0.950	0.960
Hepta	PCB-174	*	*	n NotF¶	1.29	*		991	2.5	1.28	*	0.958	0.968
Hepta	PCB-181	*	*	n NotF¶	1.35	*		991	2.5	1.22	*	0.960	0.970
Hepta	PCB-177	*	*	n NotF¶	1.27	*		991	2.5	1.30	*	0.963	0.973
Hepta	PCB-171	*	*	n NotF¶	1.46	*		991	2.5	1.13	*	0.969	0.979
Hepta	PCB-173	*	*	n NotF¶	1.10	*		991	2.5	1.49	*	0.978	0.988
Hepta	PCB-172	*	*	n NotF¶	1.35	*		991	2.5	1.22	*	0.987	0.997
Hepta	PCB-192	*	*	n NotF¶	1.74	*		991	2.5	0.950	*	0.991	1.001
Hepta	PCB-180	*	*	n NotF¶	1.45	*		991	2.5	1.14	*	0.995	1.005

Analyst: DMS

Date: 1/29/15

Client ID: Method Blank
Lab ID: B5A0099-BLK1

Filename: 150127E1 S:4 Acq:27-JAN-15 13:52:29
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.000

ConCal: ST150127E1-1
EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	*	*	n	NotFnd	1.85	*		991	2.5	0.892	*	0.999	1.009
Hepta	PCB-191	*	*	n	NotFnd	1.86	*		991	2.5	0.887	*	1.005	1.015
Hepta	PCB-170	*	*	n	NotFnd	1.67	*		991	2.5	1.12	*	0.995	1.005
Hepta	PCB-190	*	*	n	NotFnd	2.25	*		991	2.5	0.835	*	0.999	1.009
Hepta	PCB-189	*	*	n	NotFnd	1.67	*		991	2.5	0.827	*	0.995	1.005
Octa	PCB-202	*	*	n	NotFnd	1.02	*		1100	2.5	2.07	*	0.995	1.005
Octa	PCB-201	*	*	n	NotFnd	1.10	*		1100	2.5	1.92	*	1.005	1.015
Octa	PCB-204	*	*	n	NotFnd	1.07	*		1100	2.5	1.96	*	1.009	1.019
Octa	PCB-197	*	*	n	NotFnd	1.17	*		1100	2.5	1.80	*	1.015	1.025
Octa	PCB-200	*	*	n	NotFnd	1.03	*		1100	2.5	2.03	*	1.034	1.044
Octa	PCB-198	*	*	n	NotFnd	0.75	*		1100	2.5	2.79	*	1.062	1.072
Octa	PCB-199	*	*	n	NotFnd	0.74	*		1100	2.5	2.84	*	1.064	1.074
Octa	PCB-196/203	*	*	n	NotFnd	0.83	*		1100	2.5	2.54	*	1.070	1.080
Octa	PCB-195	*	*	n	NotFnd	1.14	*		1050	2.5	1.73	*	0.979	0.989
Octa	PCB-194	*	*	n	NotFnd	1.29	*		1050	2.5	1.53	*	0.995	1.005
Octa	PCB-205	*	*	n	NotFnd	1.61	*		1050	2.5	1.23	*	1.001	1.010
Nona	PCB-208	*	*	n	NotFnd	1.01	*		900	2.5	0.992	*	0.995	1.005
Nona	PCB-207	*	*	n	NotFnd	1.03	*		900	2.5	0.979	*	1.001	1.011
Nona	PCB-206	*	*	n	NotFnd	0.88	*		900	2.5	1.90	*	0.995	1.005
Deca	PCB-209	*	*	n	NotFnd	1.35	*		849	2.5	1.54	*	0.995	1.005

Analyst: DMS

Date: 1/29/15

Client ID: Method Blank Filename: 150127E1 S:4 Acq:27-JAN-15 13:52:29 ConCal: ST150127E1-1
Lab ID: B5A0099-BLK1 GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.0000 EndCAL: NA

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	*	*	n	NotFnd	1.31	*	
Total Di-PCB	*	*	n	NotFnd	1.32	*	
Total Tri-PCB	*	*	n	NotFnd	1.20	*	
Total Tri-PCB	*	*	n	NotFnd	1.23	*	Sum:0.00000
Total Tetra-PCB	*	*	n	NotFnd	1.17	*	
Total Penta-PCB	*	*	n	NotFnd	1.24	*	
Total Penta-PCB	*	*	n	NotFnd	1.39	*	Sum:0.00000
Total Hexa-PCB	*	*	n	NotFnd	0.94	*	
Total Hexa-PCB	*	*	n	NotFnd	1.13	*	Sum:0.00000
Total Hepta-PCB	*	*	n	NotFnd	1.37	*	
Total Octa-PCB	*	*	n	NotFnd	0.95	*	
Total Octa-PCB	*	*	n	NotFnd	1.35	*	Sum:0.00000
Total Nona-PCB	*	*	n	NotFnd	0.99	*	
Total Deca-PCB	*	*	n	NotFnd	1.35	*	

Total PCB Conc:0.00000000000

Integrations
by
Analyst: DMS
Date: 1/29/15

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	3.51e+07	3.47 y	0.91	16:08	0.622	0.619	0.625	1430	71.6
13C-PCB-3	3.91e+07	3.41 y	0.94	18:44	0.722	0.718	0.726	1540	77.0
13C-PCB-4	2.28e+07	1.58 y	0.60	20:05	0.774	0.770	0.778	1410	70.7
13C-PCB-9	3.66e+07	1.56 y	0.96	21:52	0.843	0.839	0.847	1410	70.7
13C-PCB-11	3.93e+07	1.56 y	0.95	25:14	0.973	0.968	0.978	1530	76.3
13C-PCB-19	2.58e+07	1.11 y	0.56	24:13	0.934	0.929	0.939	1700	85.1
13C-PCB-28	2.64e+07	1.01 y	1.07	29:05	1.003	0.999	1.009	1310	65.6
13C-PCB-32	3.92e+07	1.13 y	0.83	27:08	1.046	1.041	1.051	1760	88.0
13C-PCB-37	2.94e+07	1.06 y	0.96	32:58	1.137	1.131	1.143	1620	81.1
13C-PCB-47	2.66e+07	0.80 y	0.77	32:00	0.871	0.867	0.875	1490	74.4
13C-PCB-52	2.67e+07	0.78 y	0.71	31:30	0.857	0.853	0.861	1610	80.4
13C-PCB-54	3.31e+07	0.80 y	1.06	27:58	0.761	0.757	0.765	1340	67.1
13C-PCB-70	3.72e+07	0.81 y	0.99	35:31	0.966	0.961	0.971	1610	80.4
13C-PCB-77	3.82e+07	0.81 y	0.96	39:38	1.078	1.073	1.083	1700	85.1
13C-PCB-80	3.77e+07	0.81 y	1.02	35:57	0.978	0.973	0.983	1580	79.1
13C-PCB-81	3.88e+07	0.80 y	1.00	39:02	1.062	1.057	1.067	1670	83.4
13C-PCB-95	2.02e+07	1.60 y	0.70	35:49	0.913	0.908	0.918	1620	80.9
13C-PCB-97	2.08e+07	1.59 y	0.66	38:48	0.989	0.984	0.994	1770	88.4
13C-PCB-101	2.25e+07	1.53 y	0.77	37:30	0.956	0.951	0.961	1640	82.2
13C-PCB-104	2.55e+07	1.58 y	0.97	32:40	0.832	0.828	0.836	1480	73.8
13C-PCB-105	2.97e+07	1.62 y	1.20	43:04	0.929	0.924	0.934	1510	75.5
13C-PCB-114	2.91e+07	1.60 y	1.26	42:12	0.911	0.905	0.915	1420	71.0
13C-PCB-118	2.92e+07	1.62 y	0.94	41:33	1.059	1.054	1.064	1750	87.3
13C-PCB-123	2.79e+07	1.55 y	0.88	41:22	1.054	1.049	1.059	1770	88.6
13C-PCB-126	3.02e+07	1.62 y	1.13	45:18	0.977	0.972	0.982	1640	82.2
13C-PCB-127	3.12e+07	1.62 y	1.26	43:24	0.936	0.931	0.941	1520	75.9
13C-PCB-138	2.90e+07	1.29 y	1.12	44:48	0.967	0.961	0.971	1590	79.4
13C-PCB-141	2.78e+07	1.25 y	1.09	43:57	0.948	0.943	0.953	1560	78.0
13C-PCB-153	3.08e+07	1.31 y	1.27	43:13	0.933	0.927	0.937	1480	74.2
13C-PCB-155	2.23e+07	1.24 y	0.87	37:03	0.944	0.939	0.949	1440	71.9
13C-PCB-156	3.70e+07	1.31 y	1.35	48:03	1.037	1.032	1.042	1680	84.0
13C-PCB-157	3.88e+07	1.31 y	1.42	48:19	1.043	1.037	1.047	1680	83.8
13C-PCB-159	3.61e+07	1.27 y	1.37	46:05	0.994	0.989	0.999	1620	80.8
13C-PCB-167	3.69e+07	1.29 y	1.38	46:46	1.009	1.004	1.014	1630	81.7
13C-PCB-169	4.04e+07	1.26 y	1.38	50:30	1.090	1.084	1.094	1790	89.5
13C-PCB-170	1.72e+07	0.46 y	0.60	50:52	1.098	1.091	1.103	1750	87.4
13C-PCB-180	2.11e+07	0.46 y	0.76	49:21	1.065	1.059	1.069	1710	85.5
13C-PCB-188	2.26e+07	0.46 y	1.01	42:51	0.925	0.919	0.929	1370	68.3
13C-PCB-189	2.33e+07	0.45 y	0.80	52:24	1.131	1.124	1.136	1780	88.8
13C-PCB-194	2.02e+07	0.92 y	0.75	53:56	0.995	0.990	1.000	1790	89.6
13C-PCB-202	2.37e+07	0.90 y	0.99	48:16	1.042	1.036	1.046	1470	73.3
13C-PCB-206	2.16e+07	0.79 y	0.73	55:32	1.025	1.020	1.301	1950	97.4
13C-PCB-208	2.88e+07	0.74 y	1.08	53:12	0.982	0.977	0.987	1760	88.0
13C-PCB-209	2.15e+07	1.16 y	0.71	56:54	1.050	1.045	1.055	2000	100

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	4.23e+07	0.78 y	1.02	37:49	1.029	1.024	1.033	1780	88.8
13C-PCB-178	1.82e+07	0.48 y	0.64	45:38	0.985	0.980	0.989	1750	87.5

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	4.23e+07	0.78 y	1.02	37:49	0.969	0.963	0.973	2130	106
13C-PCB-178	1.82e+07	0.48 y	0.84	45:38	0.925	0.920	0.930	2050	102

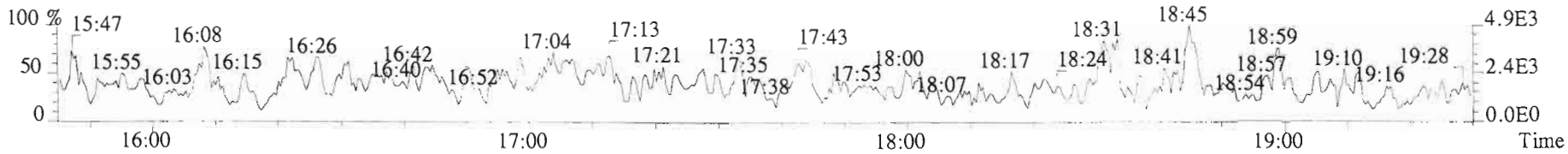
RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	5.40e+07	1.57	y	1.00	25:57	2000
13C-PCB-31	3.76e+07	1.04	y	1.00	28:60	2000
13C-PCB-60	4.66e+07	0.79	y	1.00	36:46	2000
13C-PCB-111	3.57e+07	1.61	y	1.00	39:14	2000
13C-PCB-128	3.27e+07	1.25	y	1.00	46:21	2000
13C-PCB-205	3.02e+07	0.90	y	1.00	54:12	2000

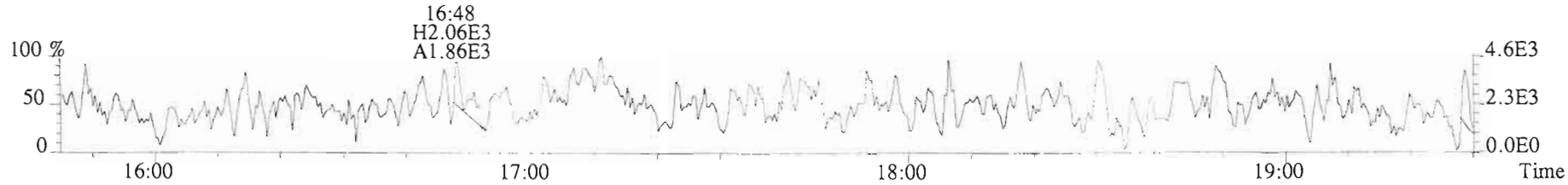
Analyst: DMS

Date: 1/29/15

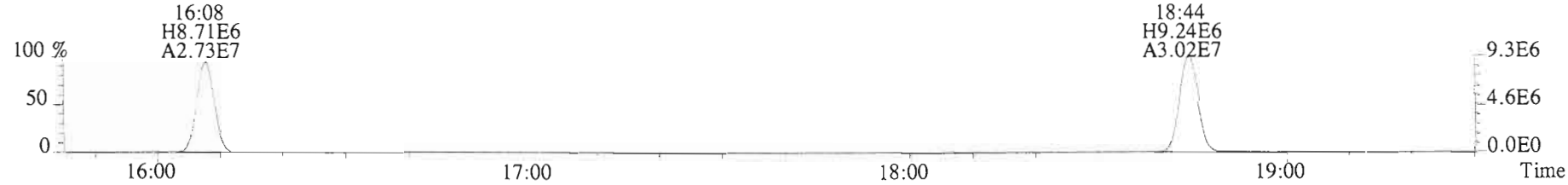
File:150127E1 #1-729 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
188.0393 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2264.0,0.00%,F,F)



190.0363 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2900.0,0.00%,F,F)

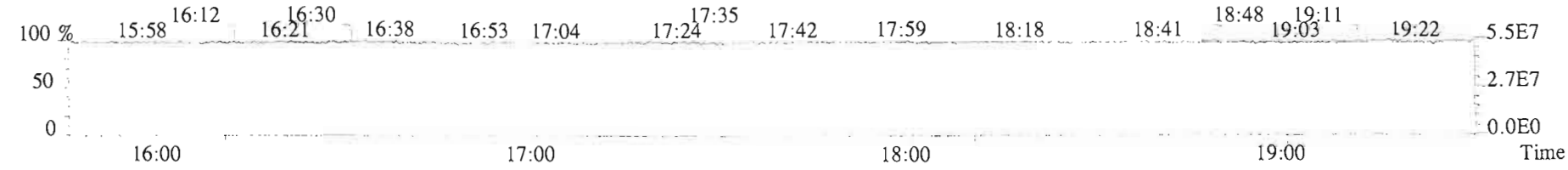


200.0795 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5436.0,0.00%,F,F)

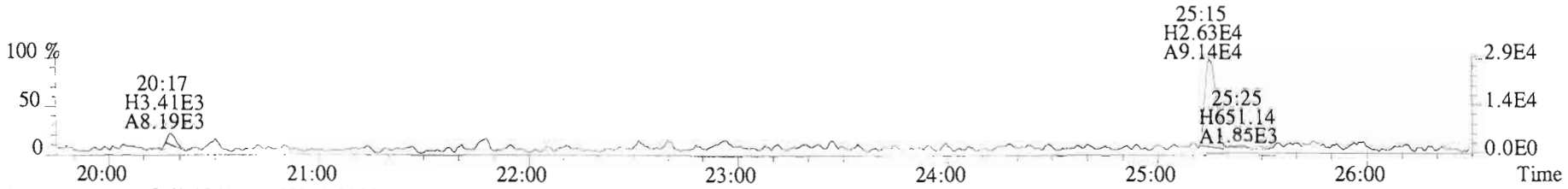


202.0766 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25436.0,0.00%,F,F)

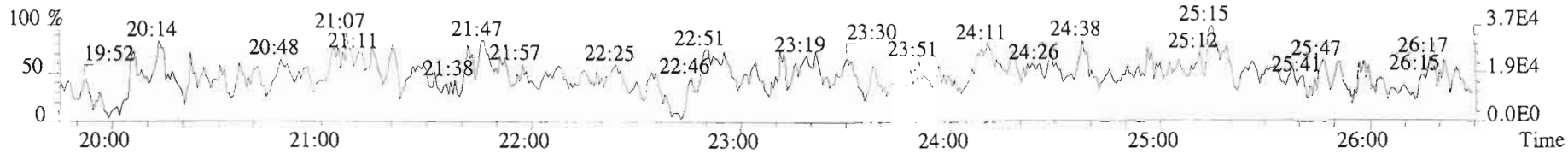
180.9880 S:4



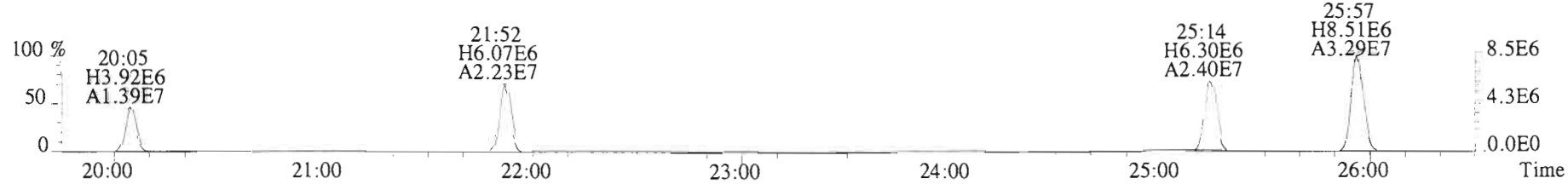
File:150127E1 #1-757 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2472.0,0.00%,F,F)



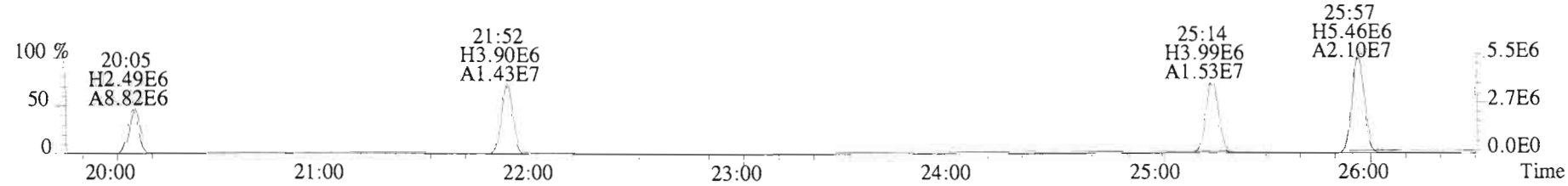
223.9974 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,22540.0,0.00%,F,F)



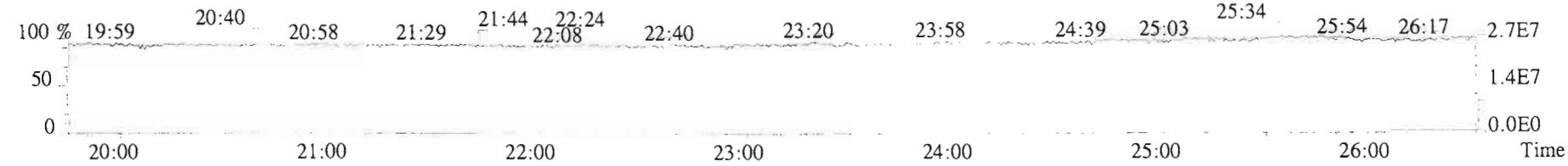
234.0406 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3768.0,0.00%,F,F)



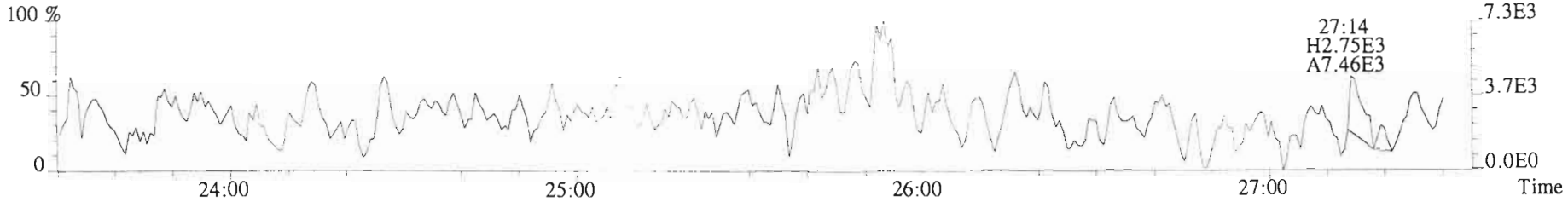
236.0376 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3956.0,0.00%,F,F)



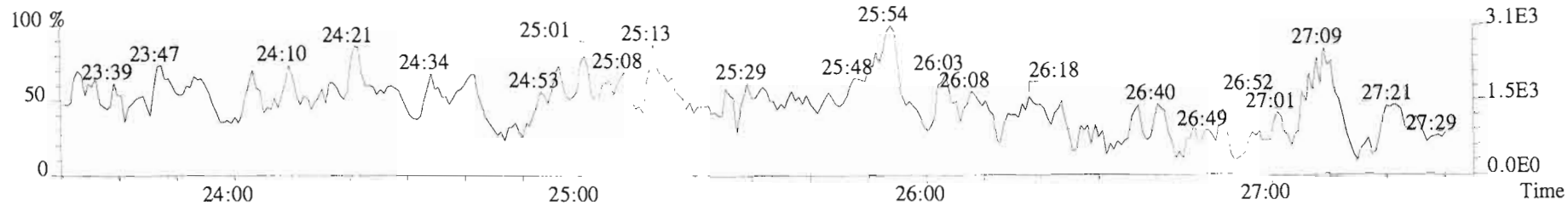
230.9856 S:4 F:2



File:150127E1 #1-757 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
255.9613 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3268.0,0.00%,F,F)



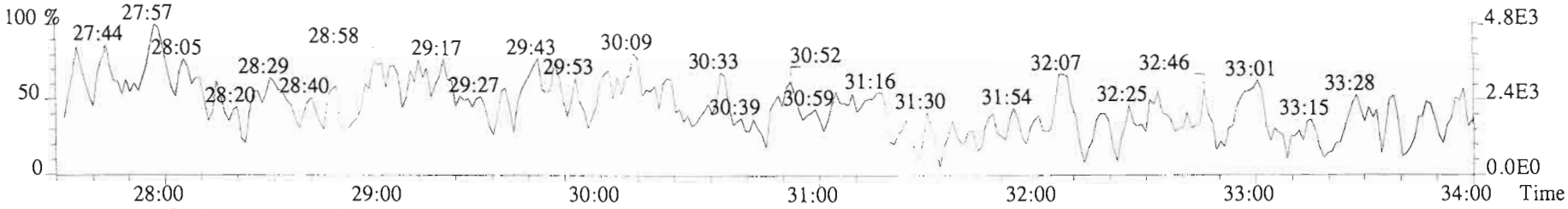
257.9584 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1812.0,0.00%,F,F)



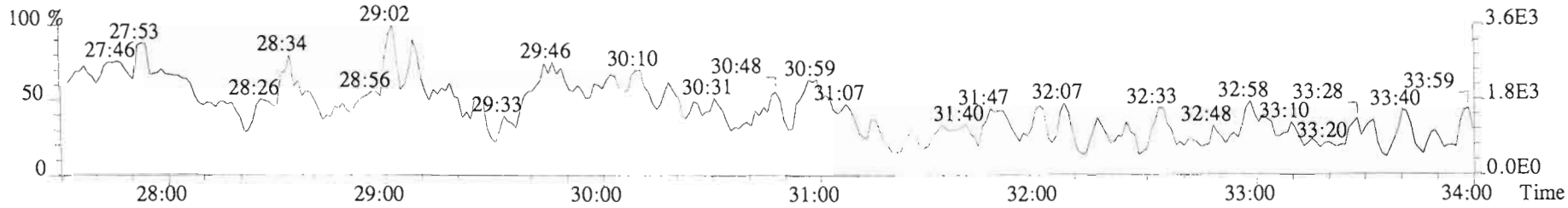
268.0016 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25592.0,0.00%,F,F)

269.9986 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26316.0,0.00%,F,F)

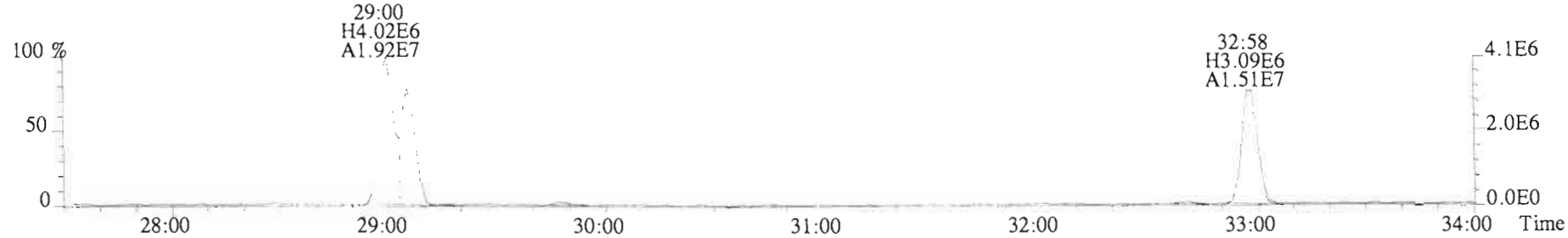
File:150127E1 #1-762 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2864.0,0.00%,F,F)



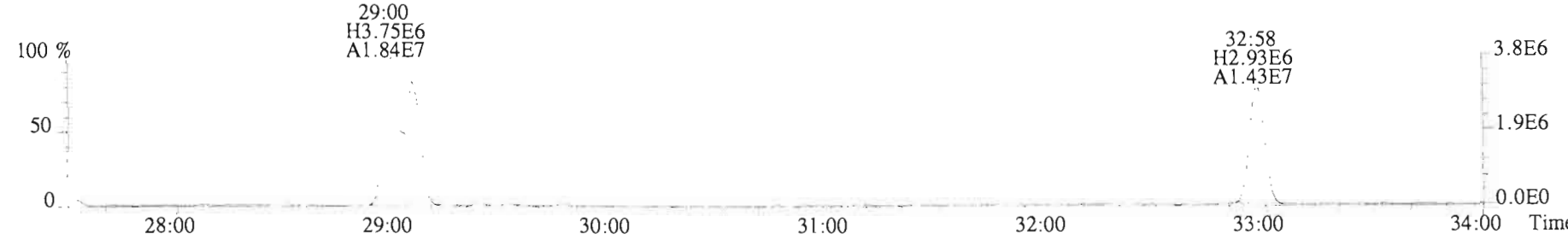
257.9584 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1956.0,0.00%,F,F)



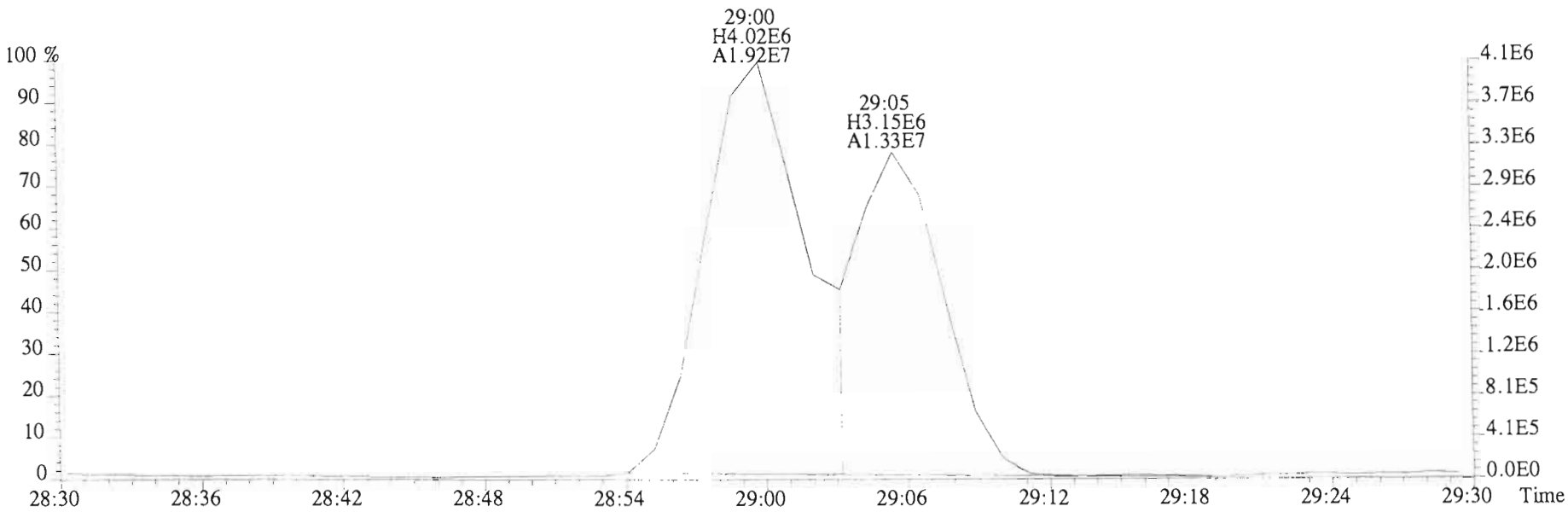
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,33816.0,0.00%,F,F)



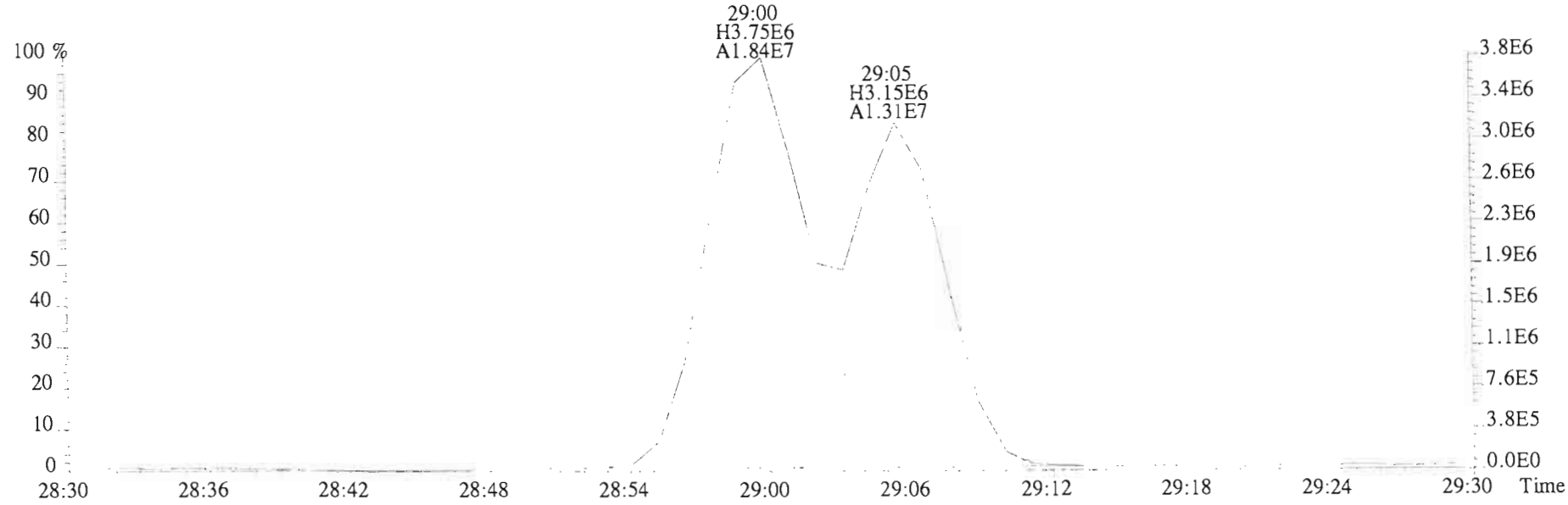
269.9986 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26376.0,0.00%,F,F)



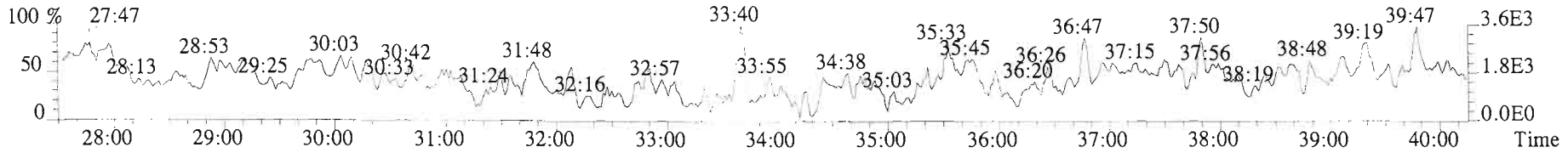
File:150127E1 #1-762 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,33816.0,0.00%,F,F)



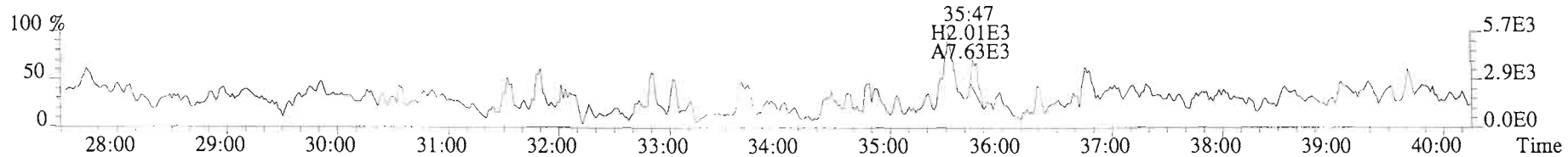
269.9986 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26376.0,0.00%,F,F)



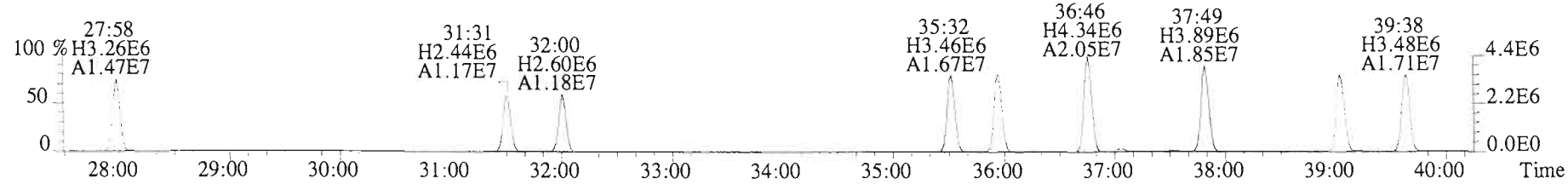
File:150127E1 #1-762 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2000.0,0.00%,F,F)



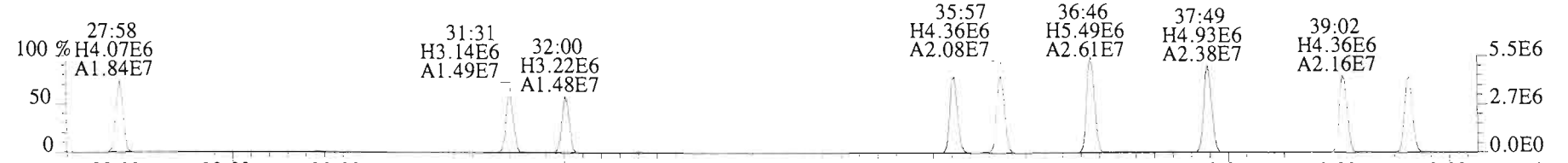
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2124.0,0.00%,F,F)



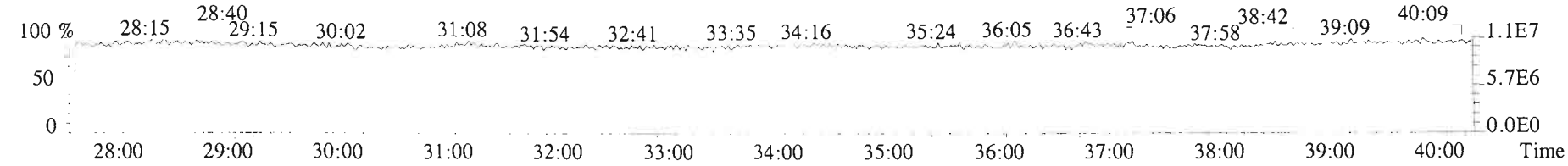
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6180.0,0.00%,F,F)



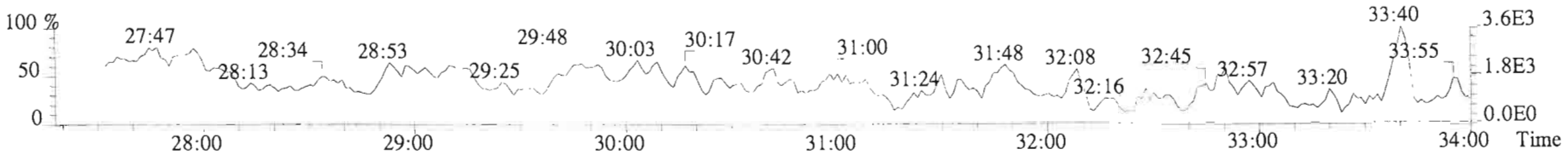
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4176.0,0.00%,F,F)



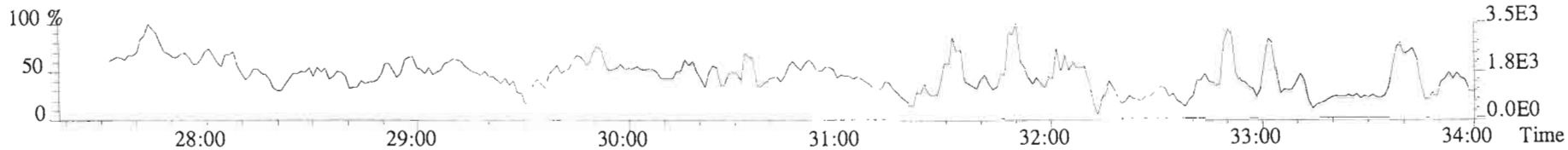
330.9792 S:4 F:3



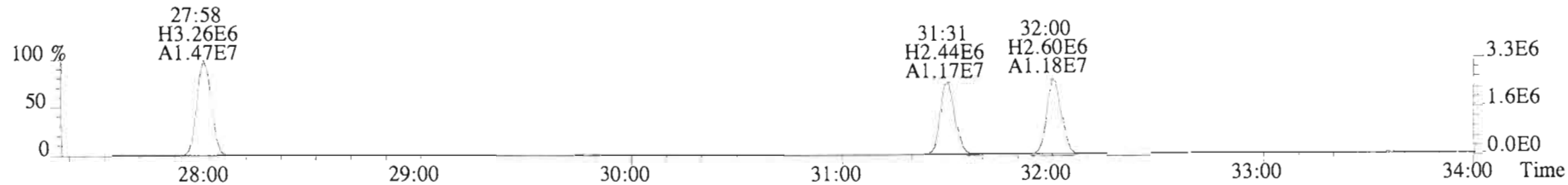
File:150127E1 #1-762 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2000.0,0.00%,F,F)



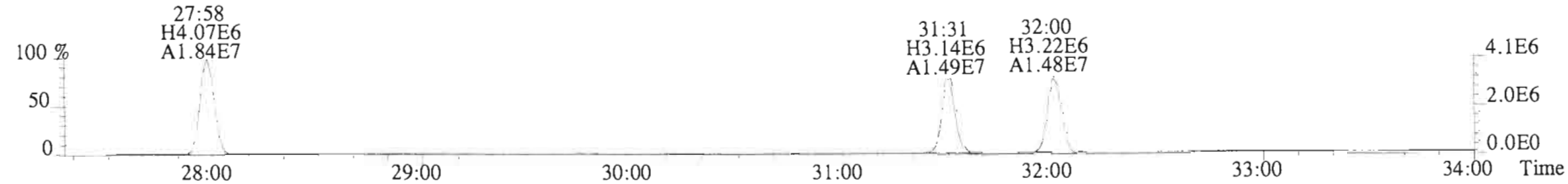
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2124.0,0.00%,F,F)



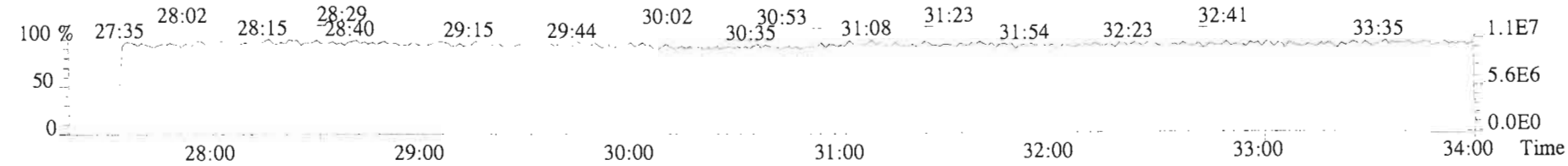
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6180.0,0.00%,F,F)



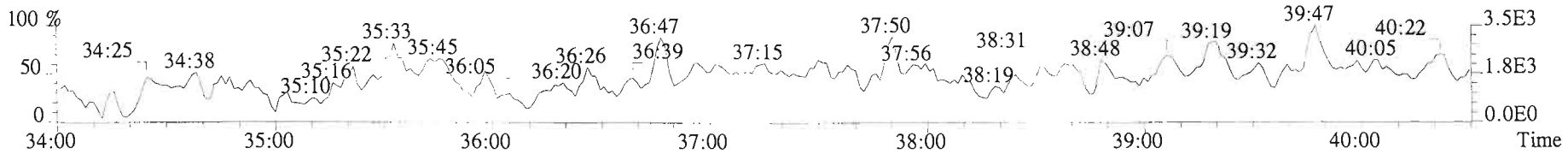
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4176.0,0.00%,F,F)



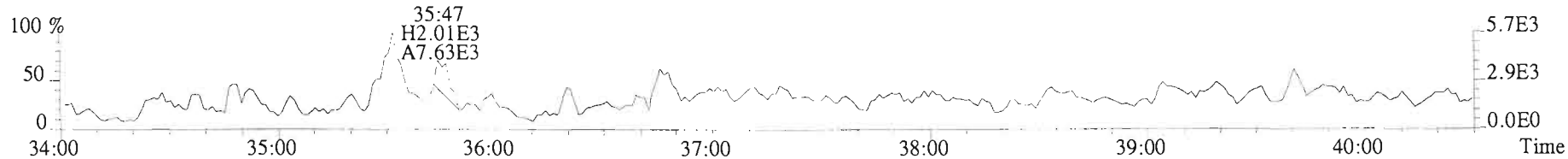
330.9792 S:4 F:3



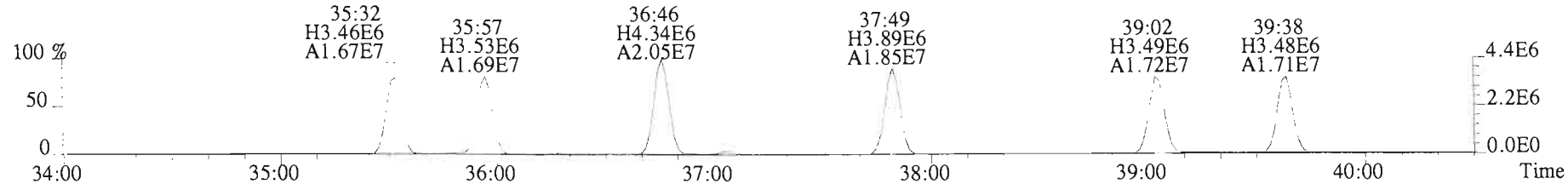
File:150127E1 #1-762 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2000.0,0.00%,F,F)



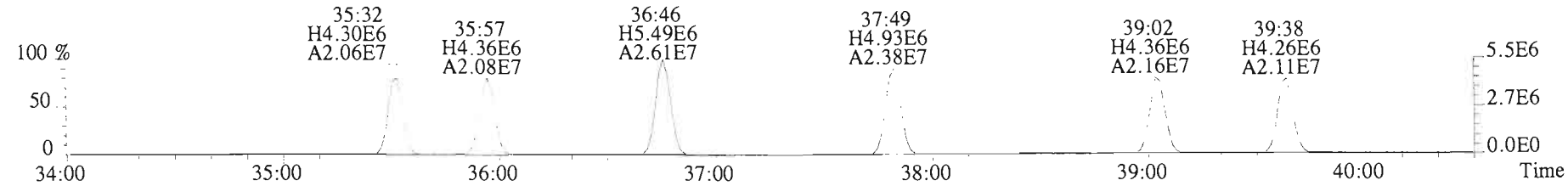
291.9194 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2124.0,0.00%,F,F)



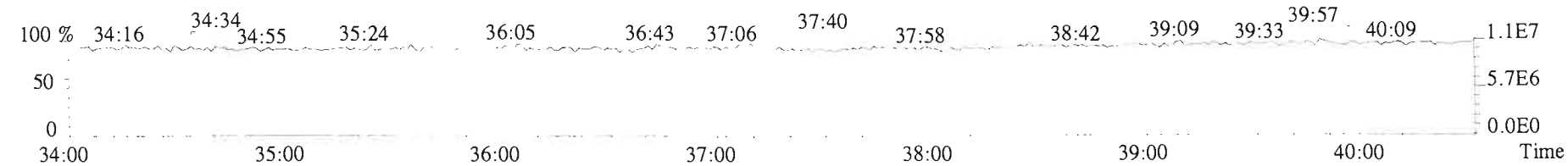
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6180.0,0.00%,F,F)



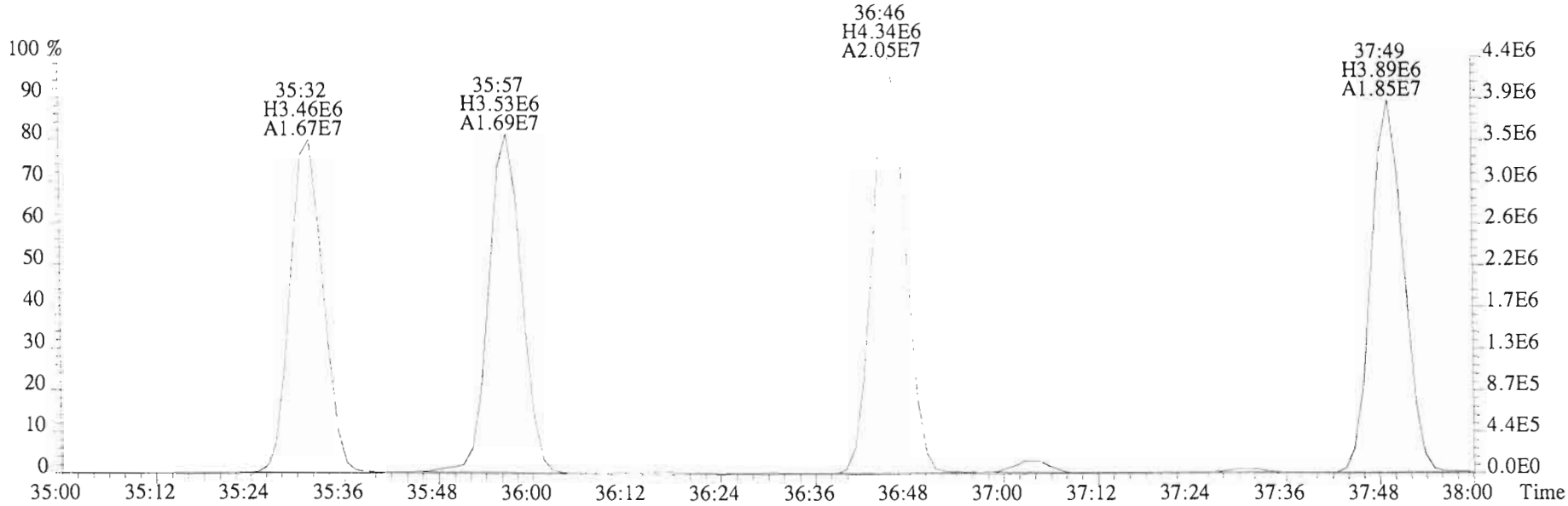
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4176.0,0.00%,F,F)



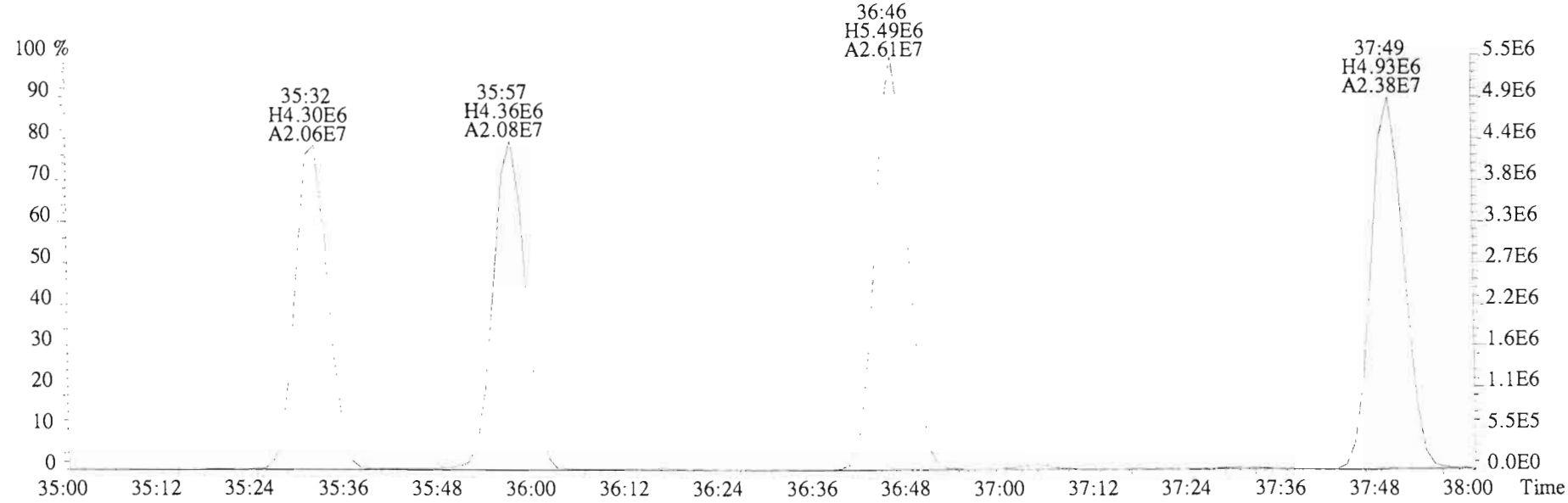
330.9792 S:4 F:3



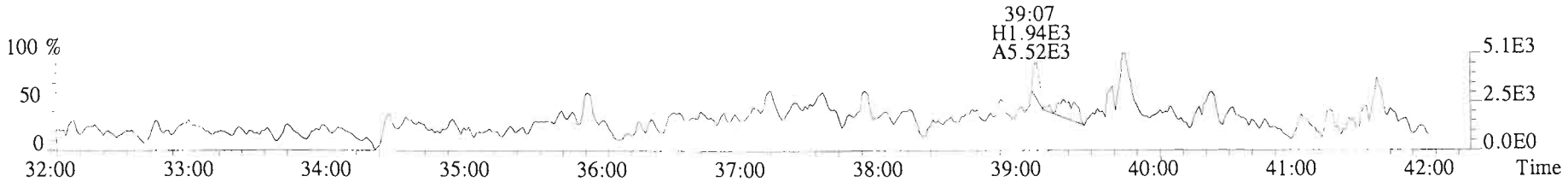
File:150127E1 #1-762 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6180.0,0.00%,F,F)



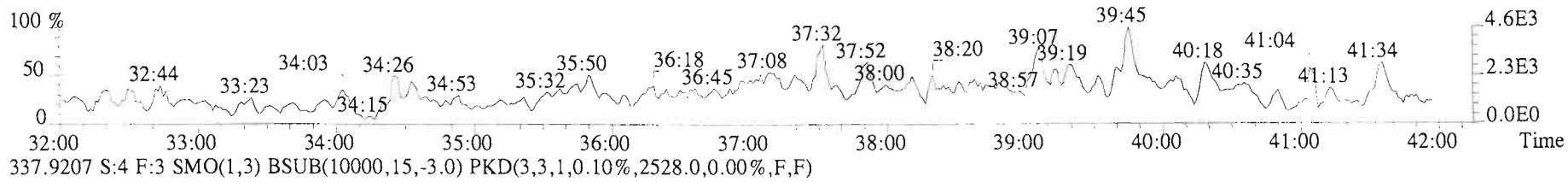
303.9597 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4176.0,0.00%,F,F)



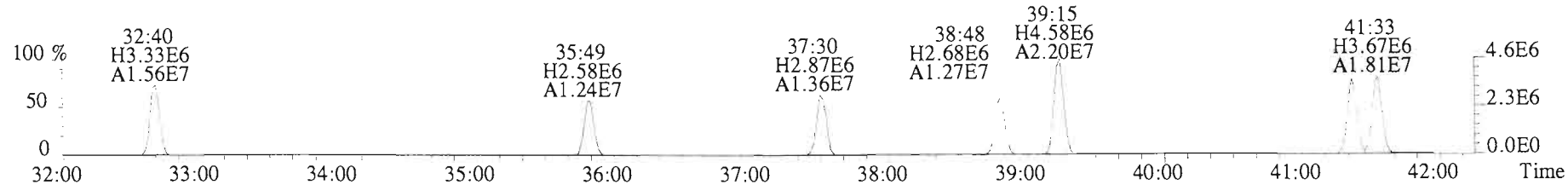
File:150127E1 #1-762 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2032.0,0.00%,F,F)



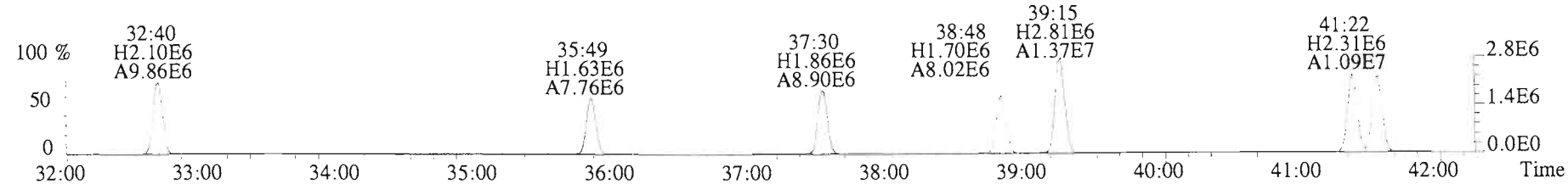
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



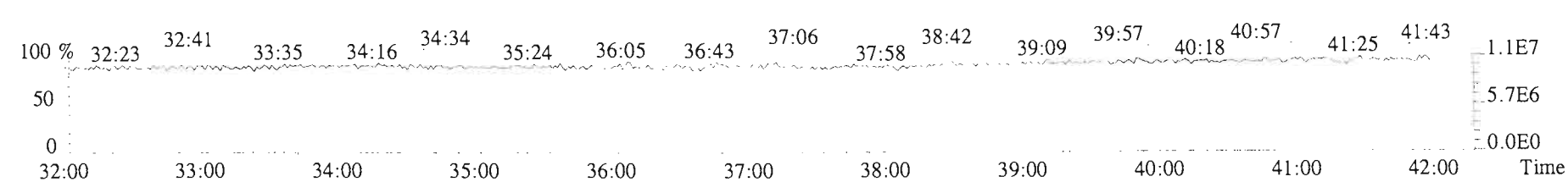
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2528.0,0.00%,F,F)



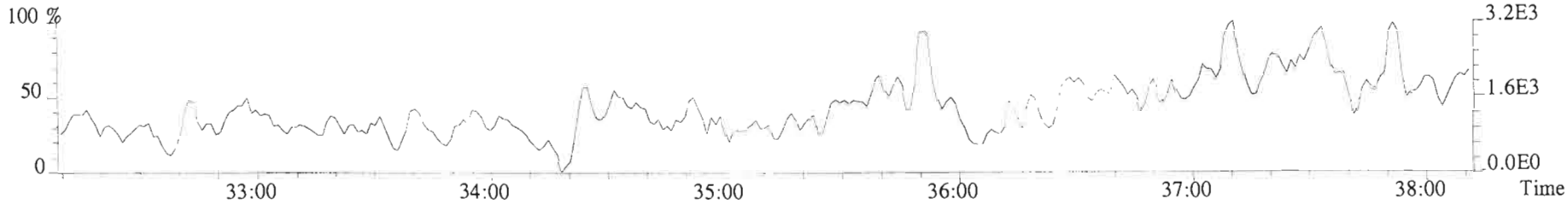
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2592.0,0.00%,F,F)



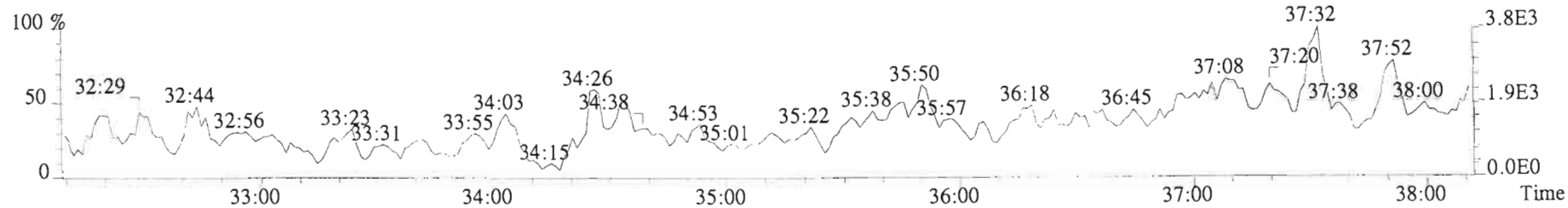
330.9792 S:4 F:3



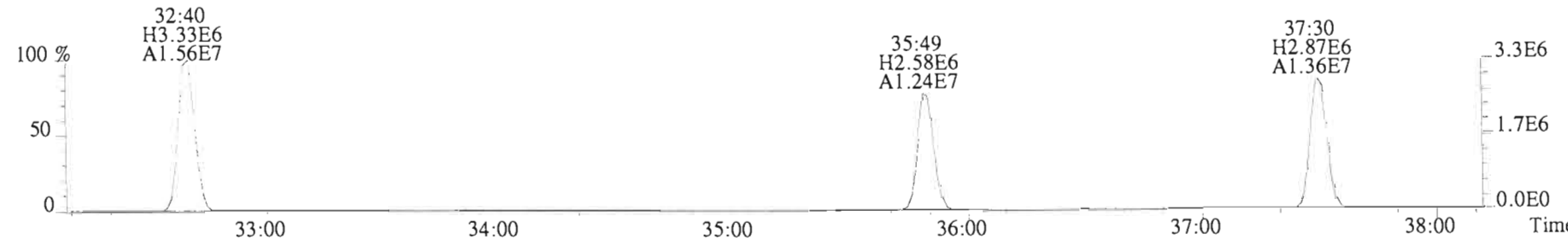
File:150127E1 #1-762 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2032.0,0.00%,F,F)



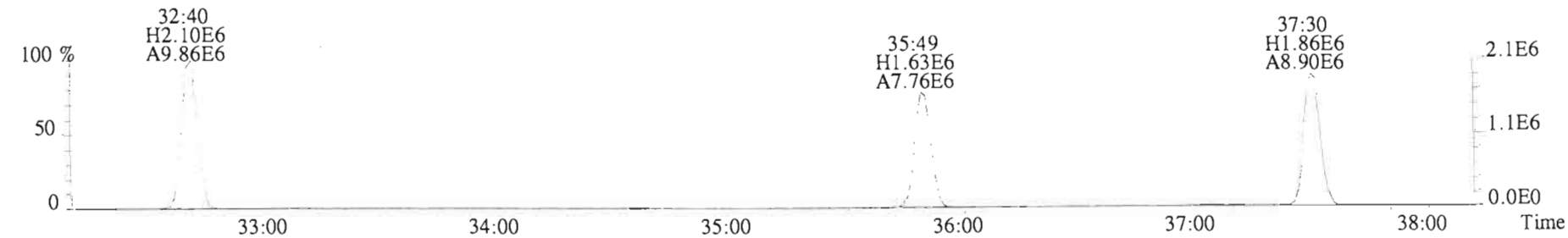
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



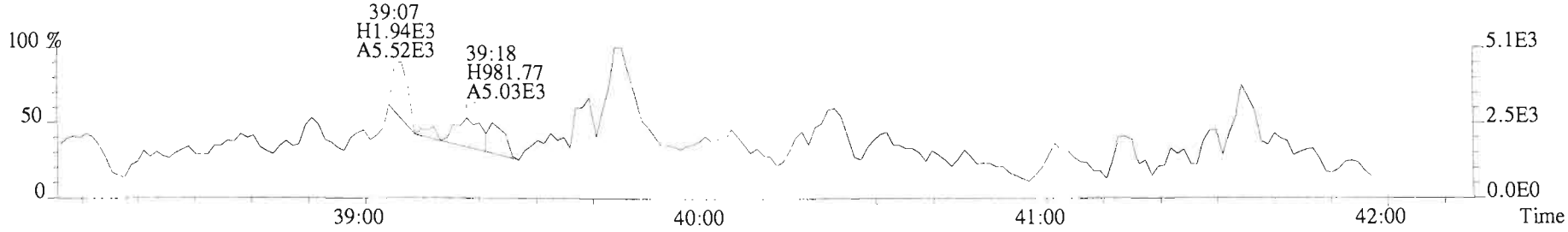
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2528.0,0.00%,F,F)



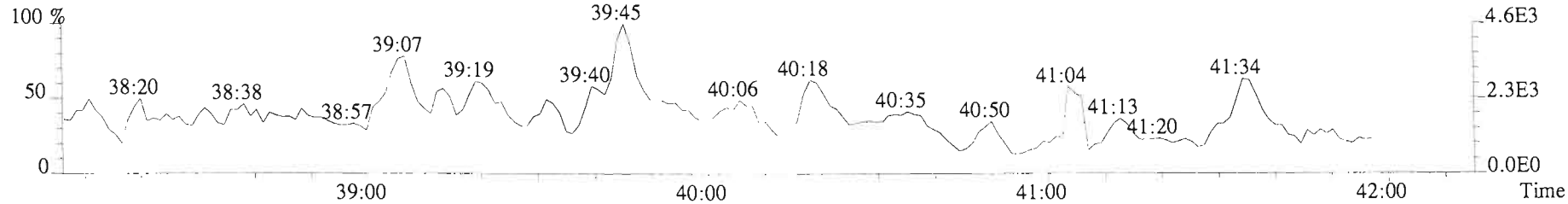
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2592.0,0.00%,F,F)



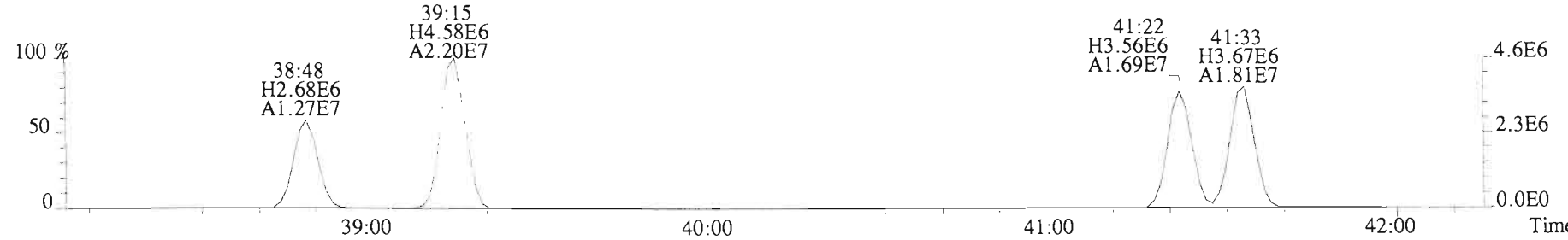
File:150127E1 #1-762 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2032.0,0.00%,F,F)



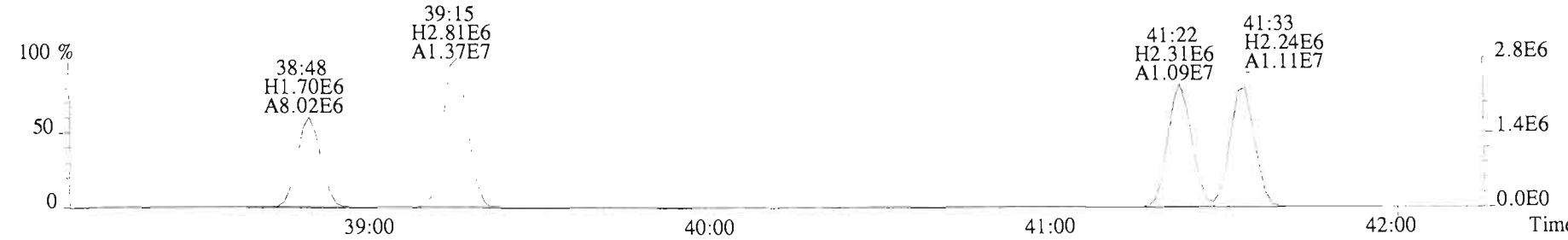
327.8775 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



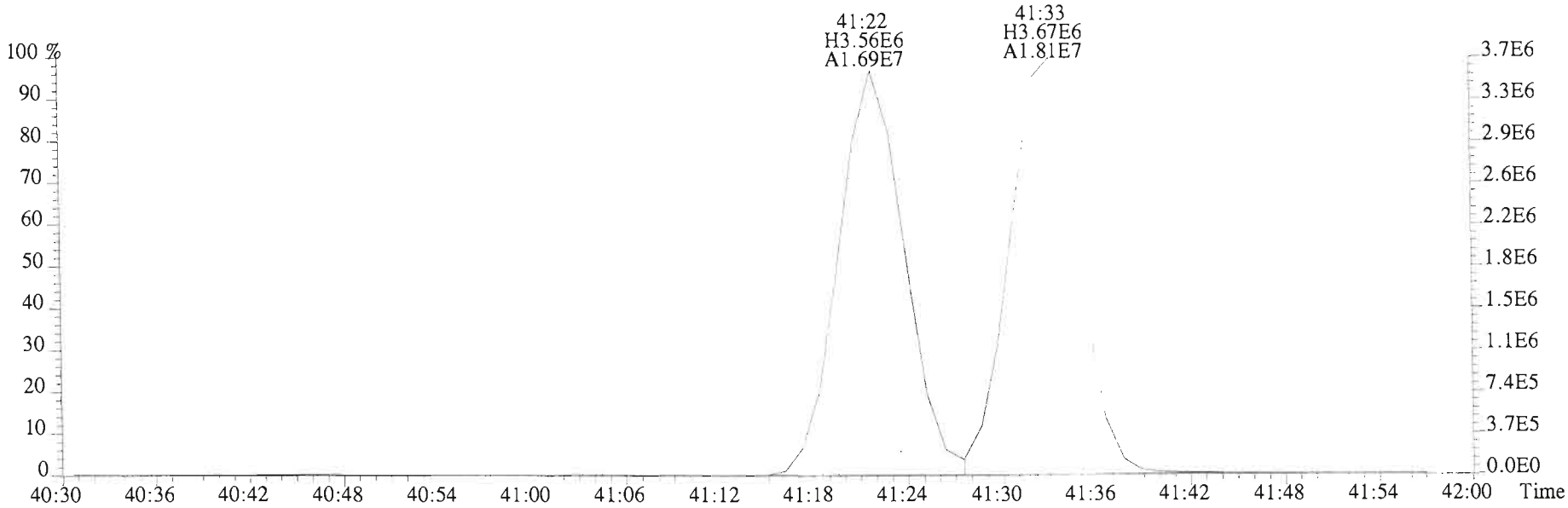
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2528.0,0.00%,F,F)



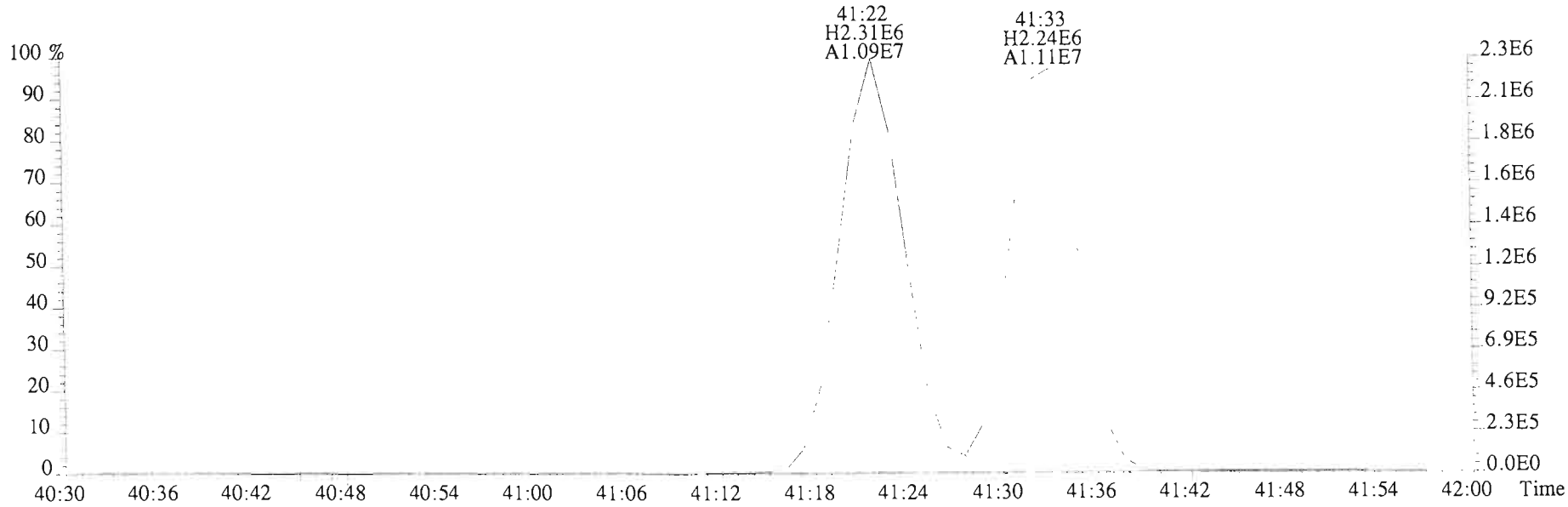
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2592.0,0.00%,F,F)



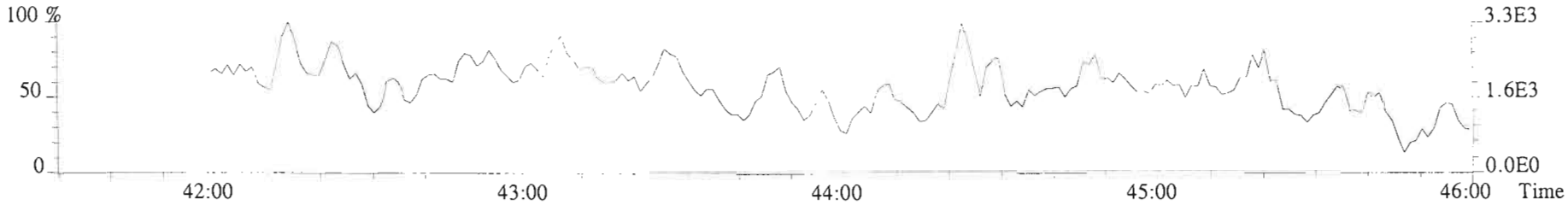
File:150127E1 #1-762 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2528.0,0.00%,F,F)



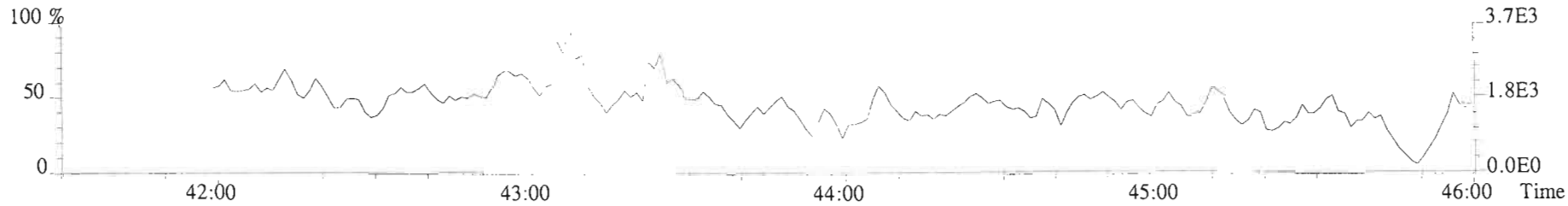
339.9177 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2592.0,0.00%,F,F)



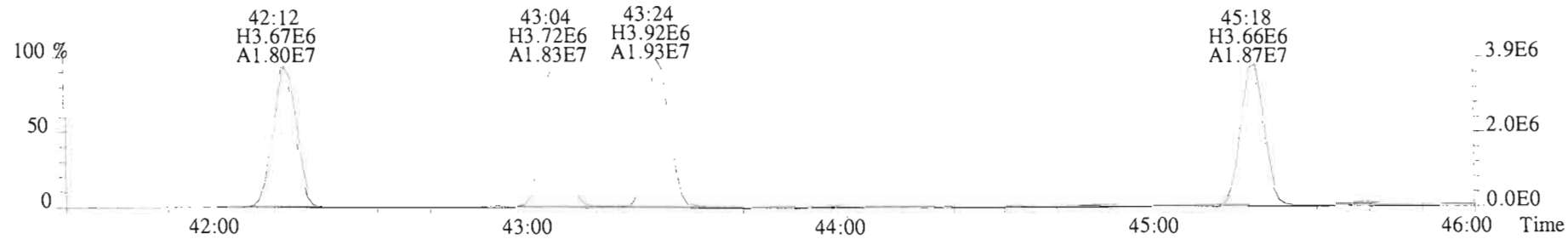
File:150127E1 #1-564 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2288.0,0.00%,F,F)



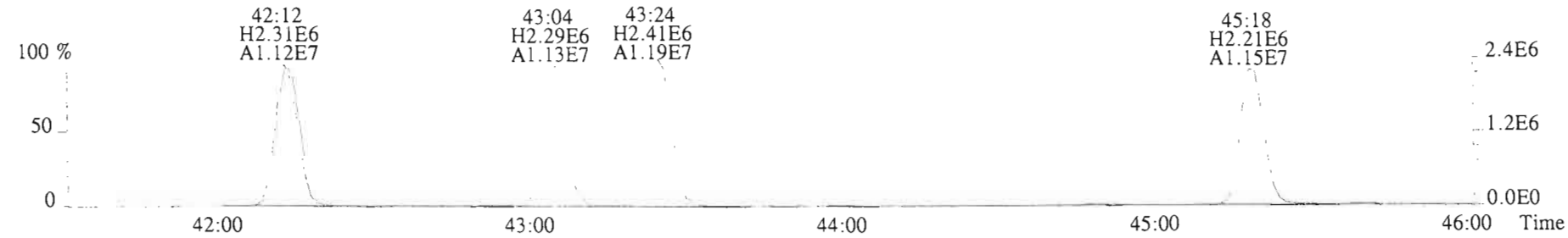
327.8775 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2028.0,0.00%,F,F)



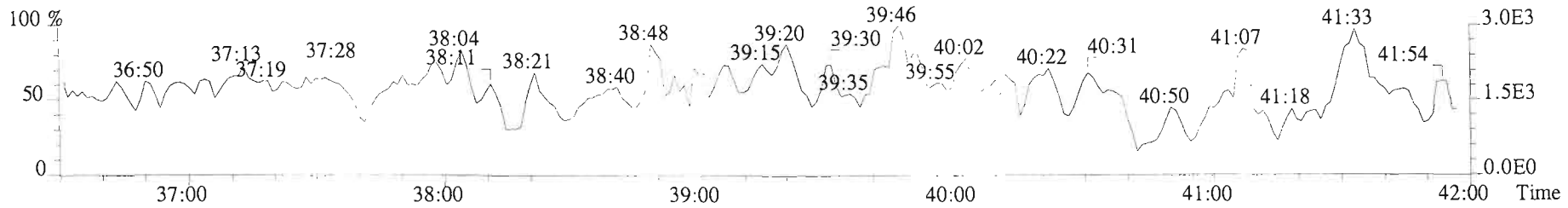
337.9207 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4940.0,0.00%,F,F)



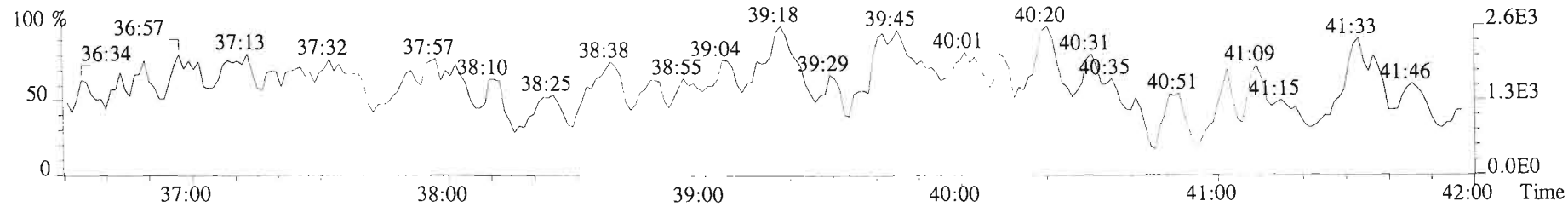
339.9177 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4396.0,0.00%,F,F)



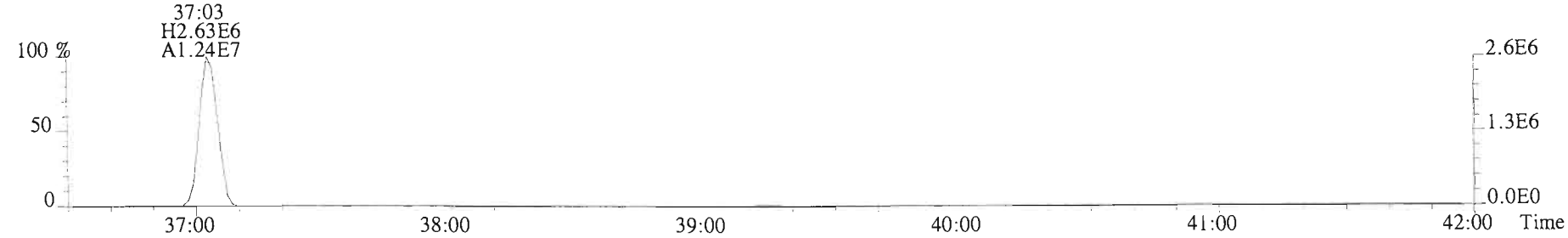
File:150127E1 #1-762 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1920.0,0.00%,F,F)



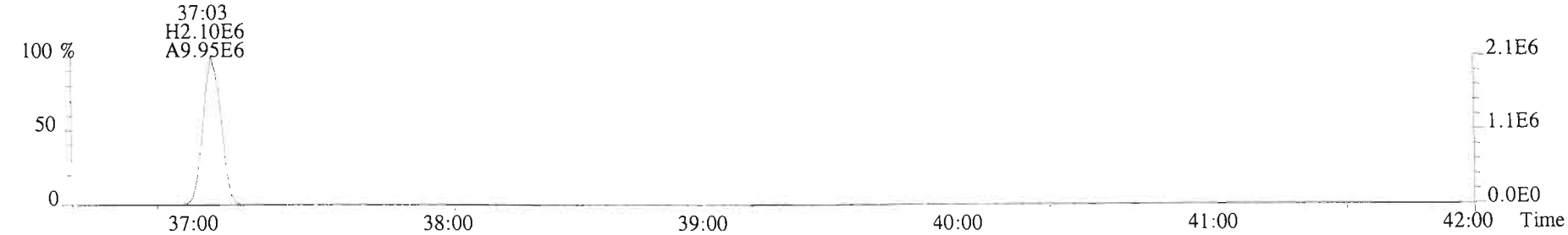
361.8385 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1776.0,0.00%,F,F)



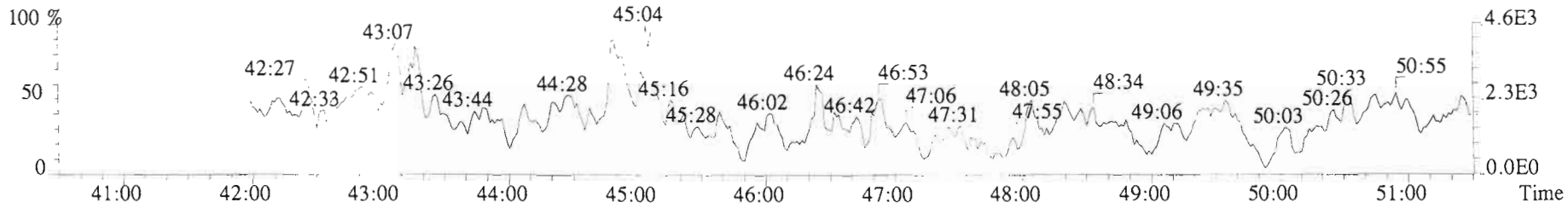
371.8817 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2056.0,0.00%,F,F)



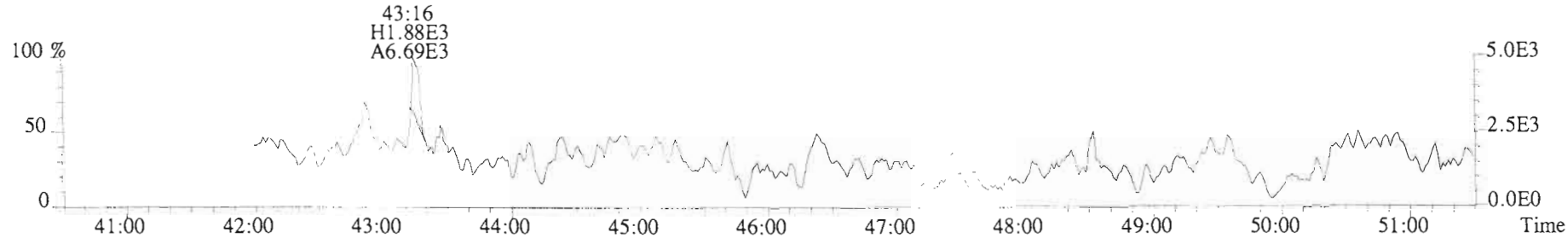
373.8788 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1808.0,0.00%,F,F)



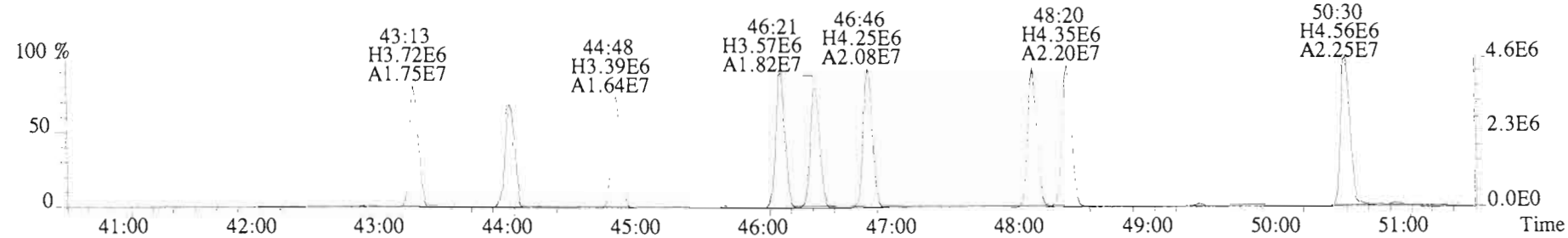
File:150127E1 #1-564 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2264.0,0.00%,F,F)



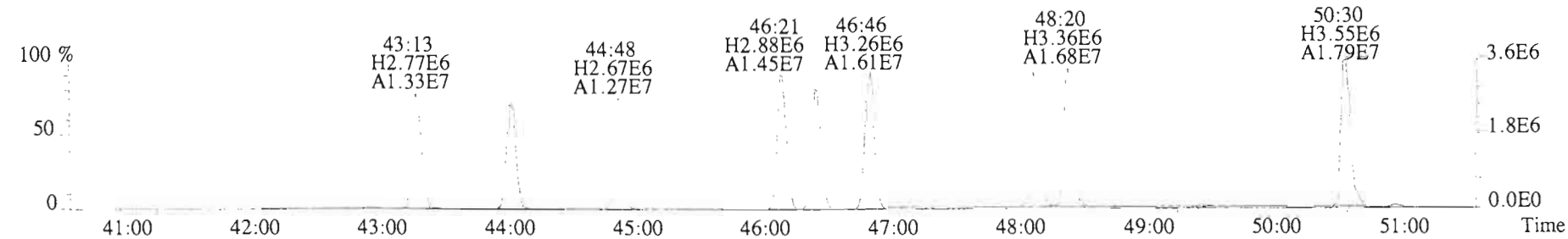
361.8385 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2172.0,0.00%,F,F)



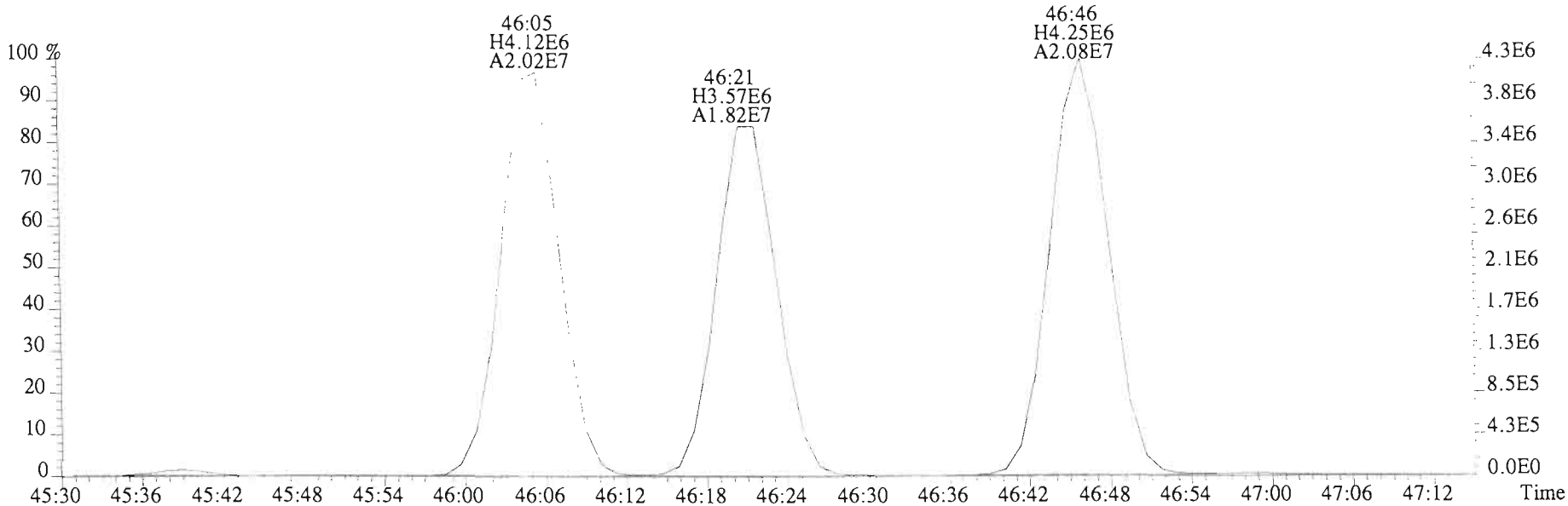
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7816.0,0.00%,F,F)



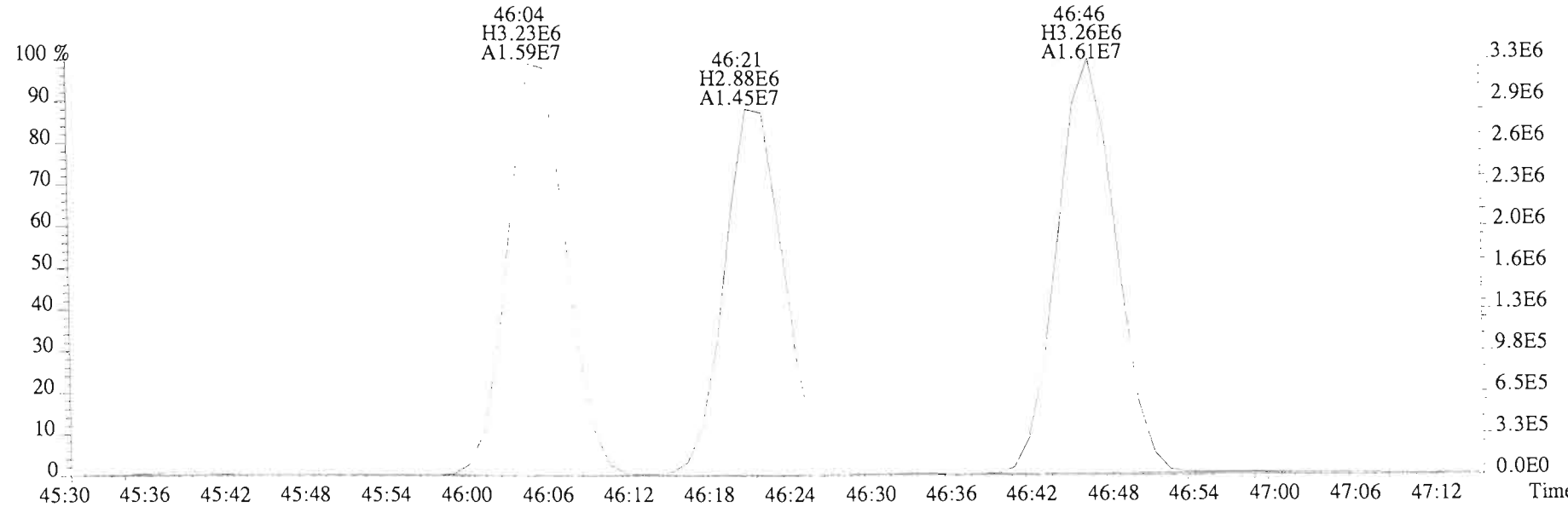
373.8788 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5880.0,0.00%,F,F)



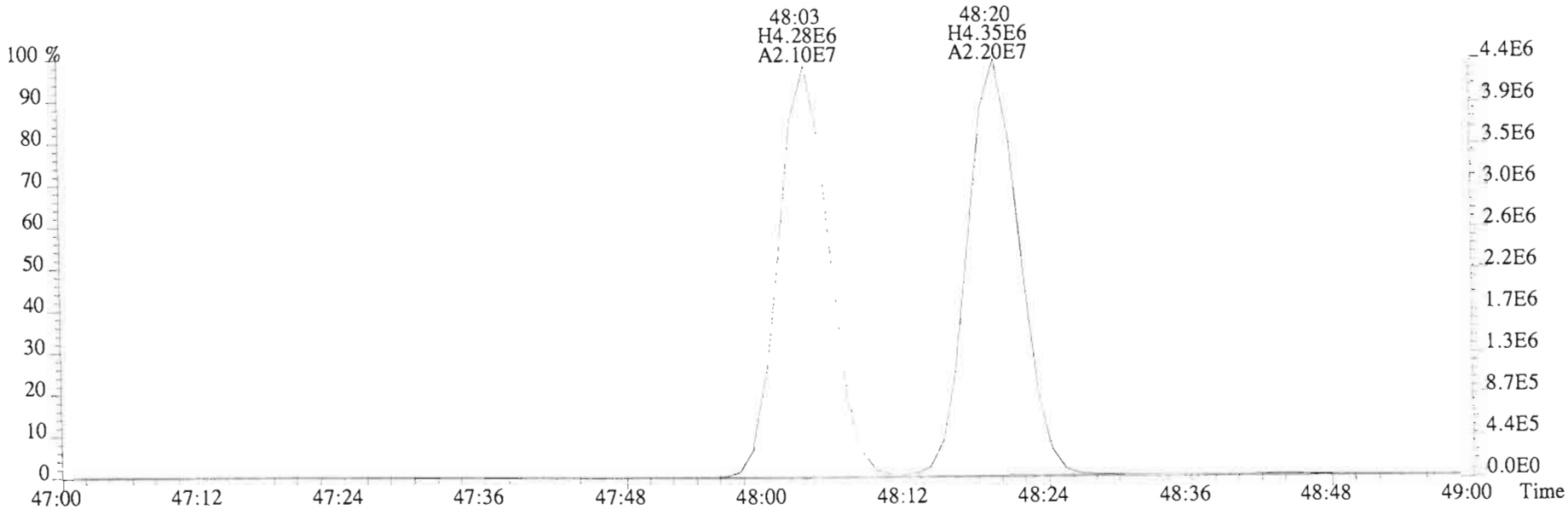
File:150127E1 #1-564 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7816.0,0.00%,F,F)



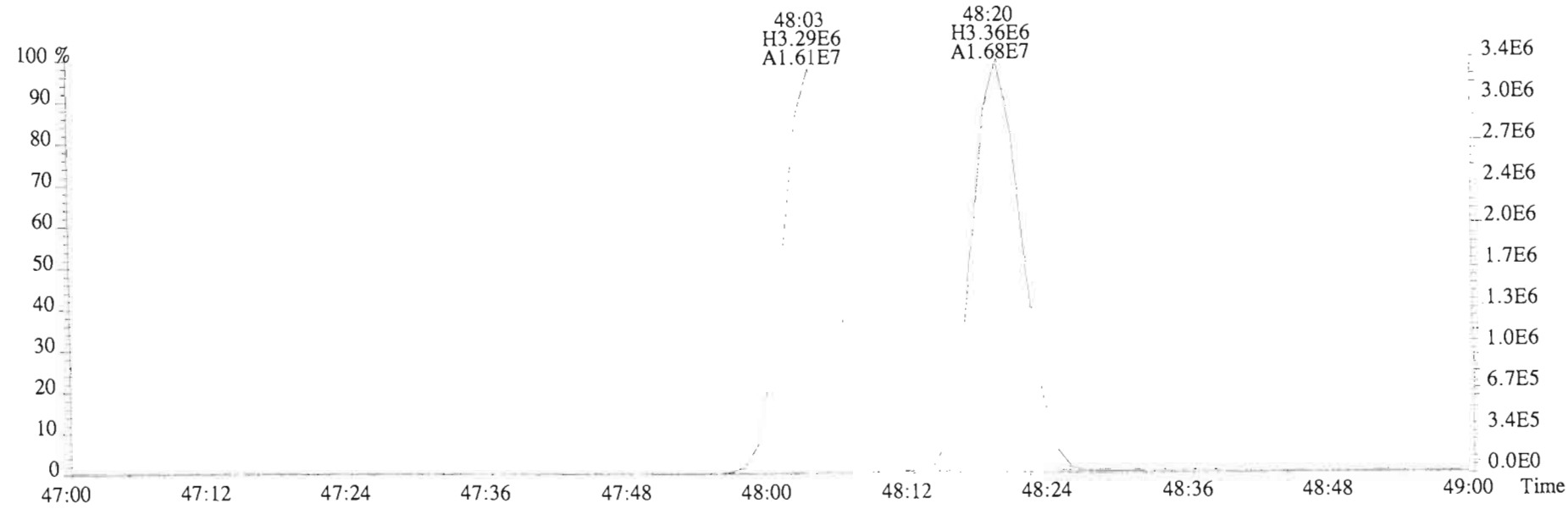
373.8788 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5880.0,0.00%,F,F)



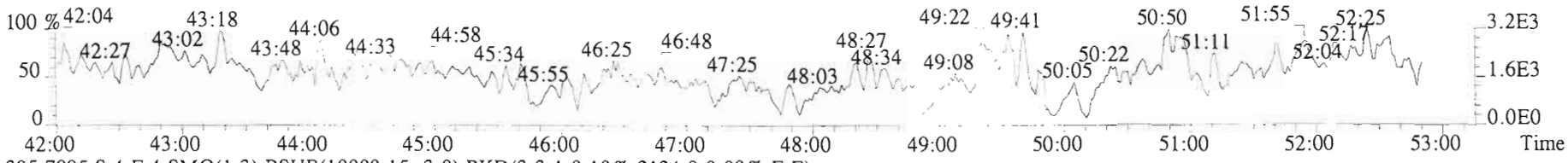
File:150127E1 #1-564 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7816.0,0.00%,F,F)



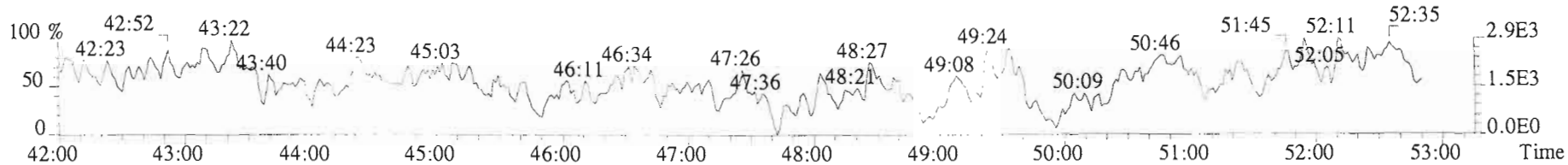
373.8788 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5880.0,0.00%,F,F)



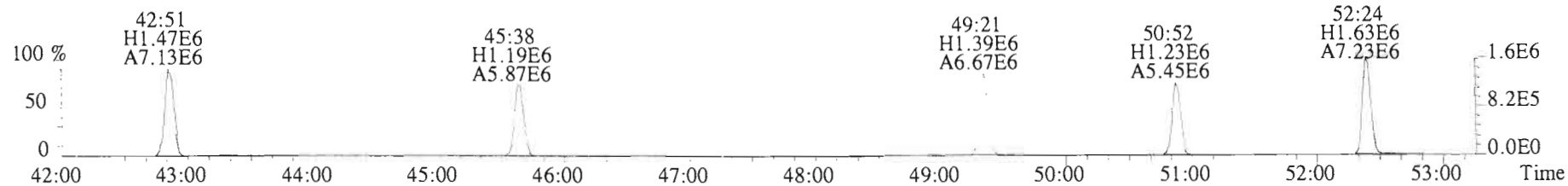
File:150127E1 #1-564 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2284.0,0.00%,F,F)



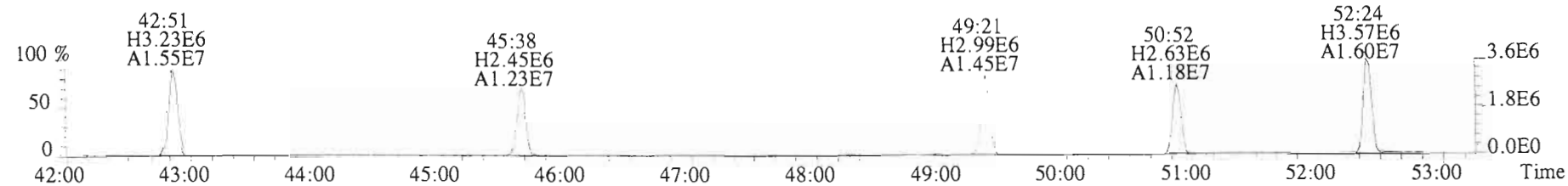
395.7995 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2124.0,0.00%,F,F)



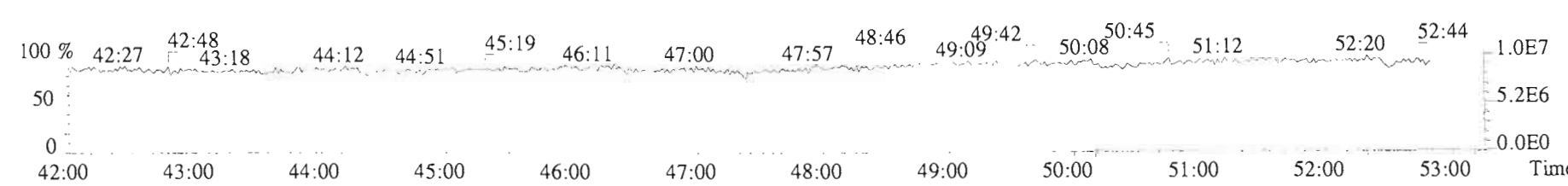
403.8457 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2168.0,0.00%,F,F)



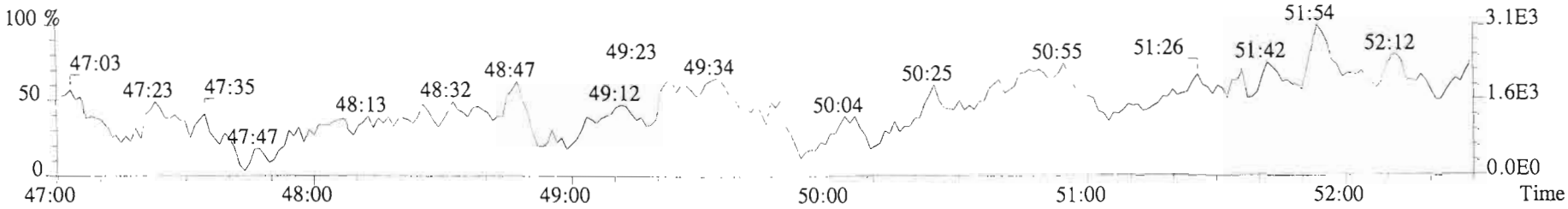
405.8428 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2880.0,0.00%,F,F)



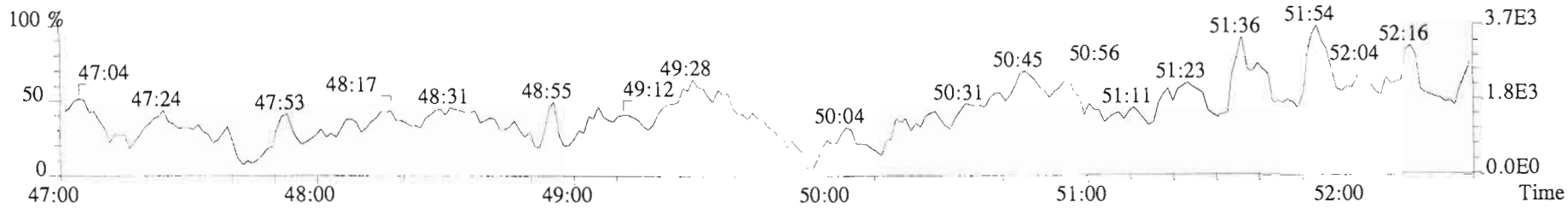
380.9760 S:4 F:4



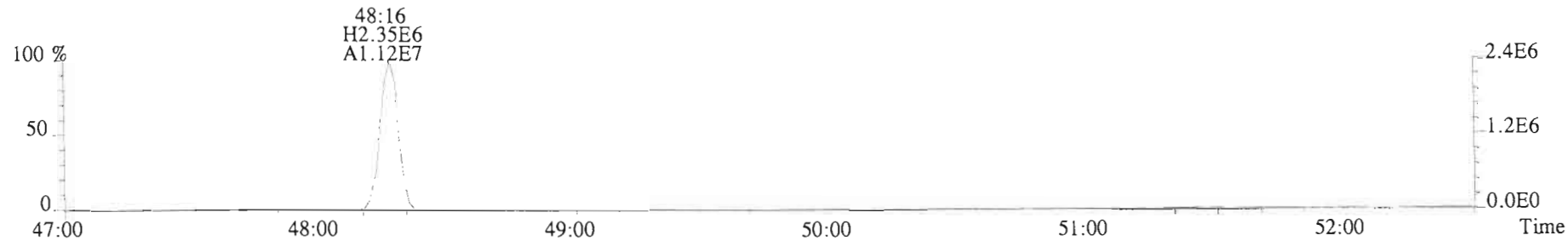
File:150127E1 #1-564 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2040.0,0.00%,F,F)



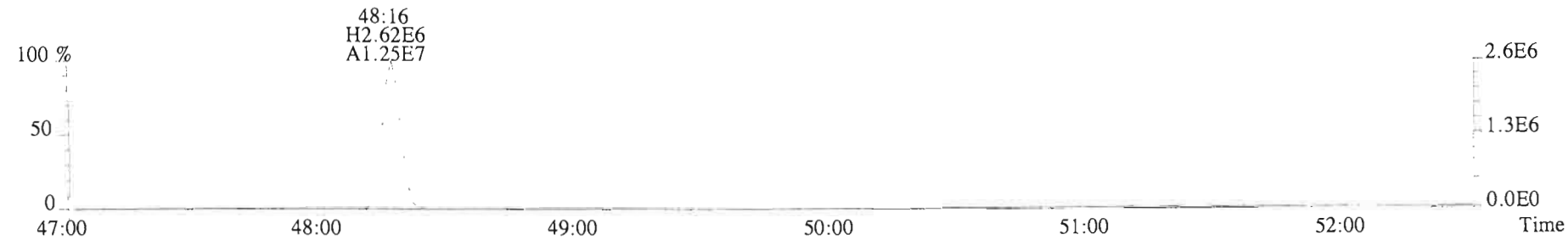
429.7606 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2204.0,0.00%,F,F)



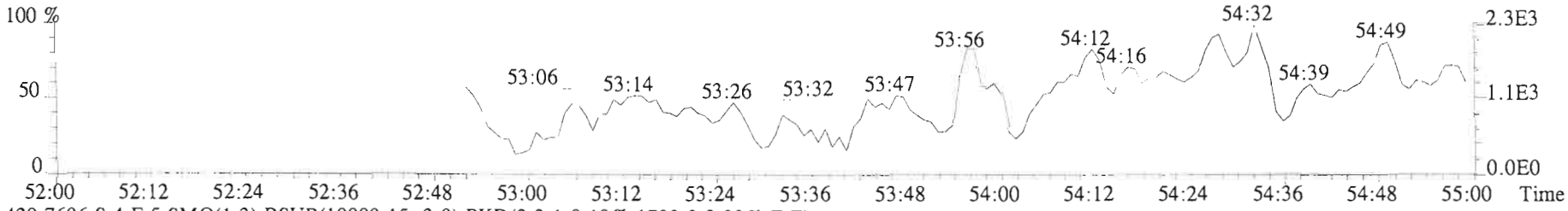
439.8038 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2324.0,0.00%,F,F)



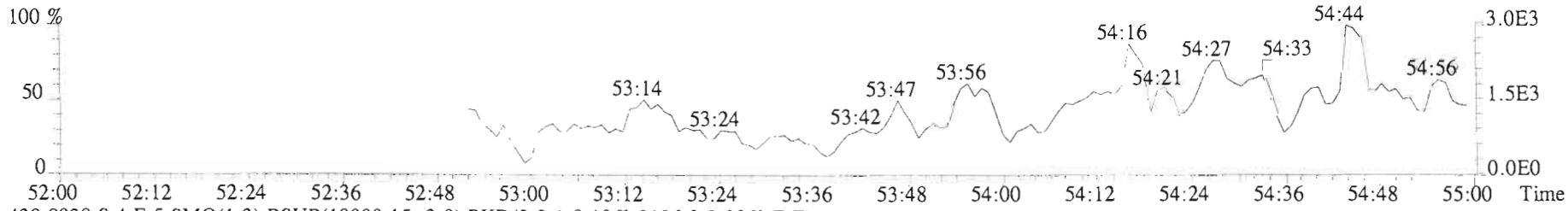
441.8008 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1896.0,0.00%,F,F)



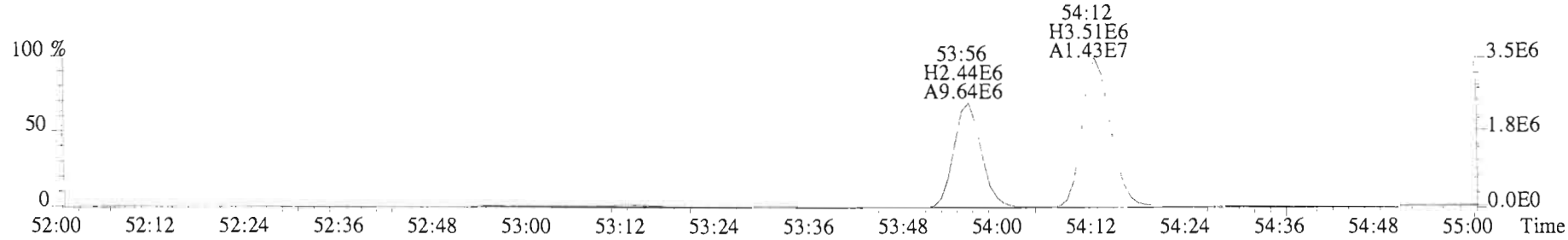
File:150127E1 #1-413 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
427.7635 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1608.0,0.00%,F,F)



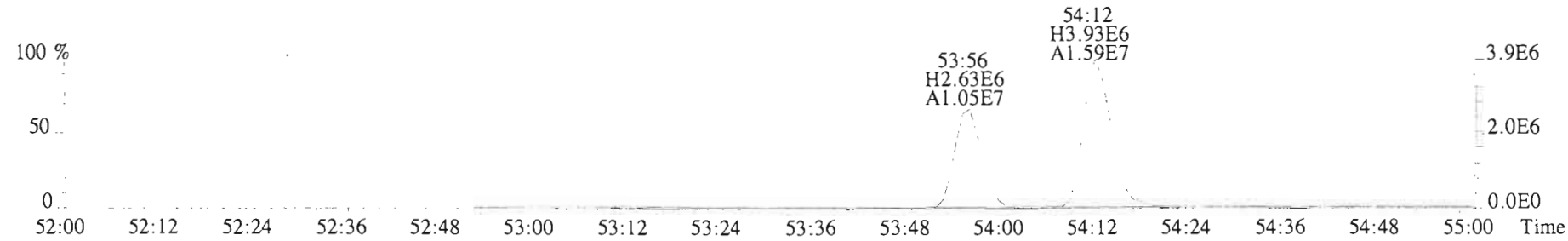
429.7606 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1700.0,0.00%,F,F)



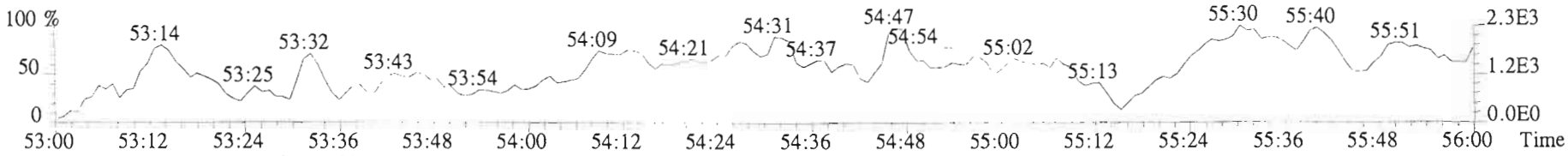
439.8038 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3196.0,0.00%,F,F)



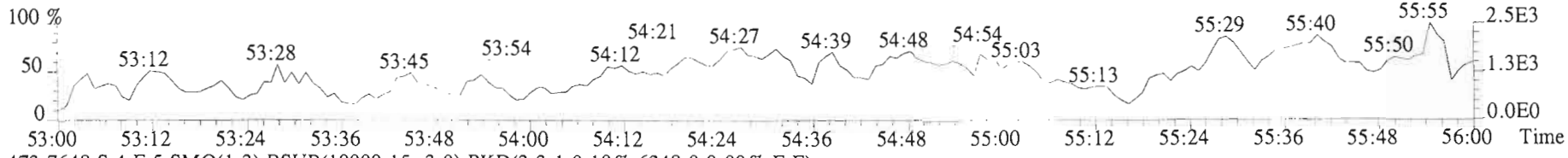
441.8008 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2580.0,0.00%,F,F)



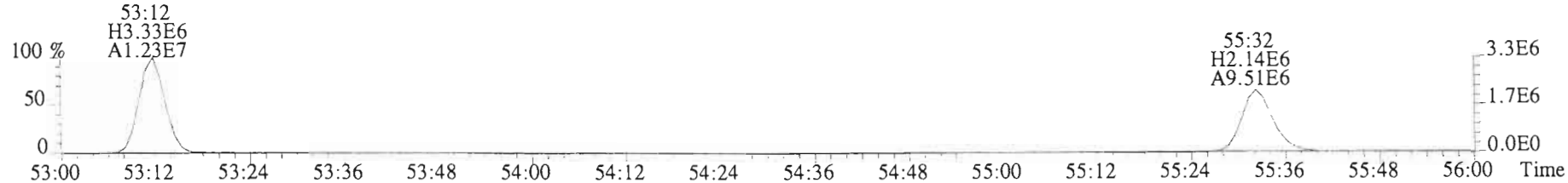
File:150127E1 #1-413 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
463.7216 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1596.0,0.00%,F,F)



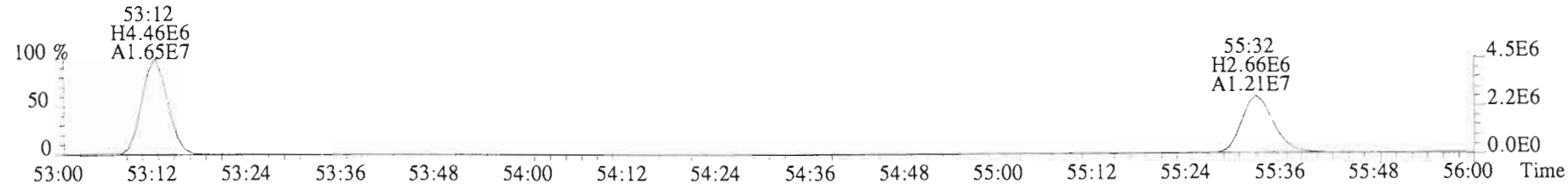
465.7186 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1520.0,0.00%,F,F)



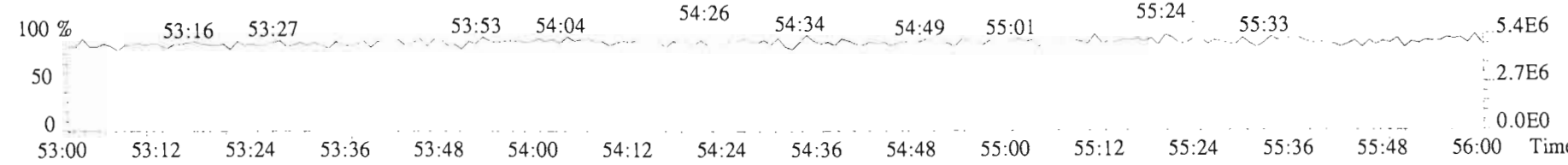
473.7648 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6248.0,0.00%,F,F)



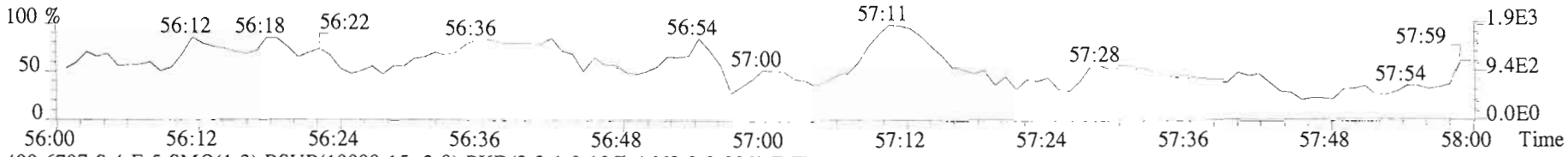
475.7619 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8248.0,0.00%,F,F)



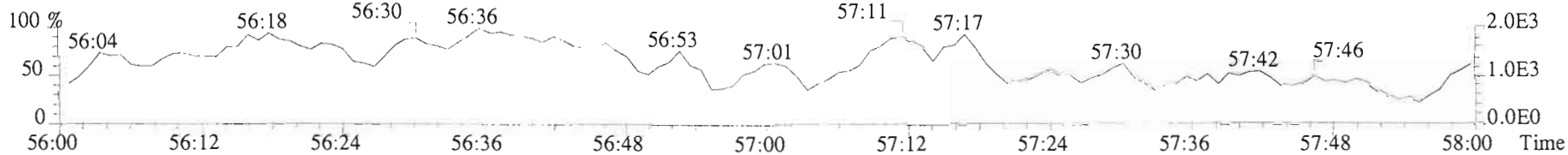
492.9697 S:4 F:5



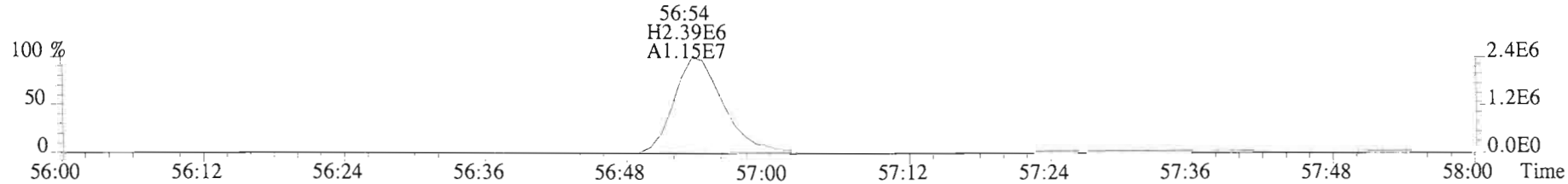
File:150127E1 #1-413 Acq:27-JAN-2015 13:52:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BLK1 Method Blank 1 Exp:PCB_ZB1
497.6826 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1244.0,0.00%,F,F)



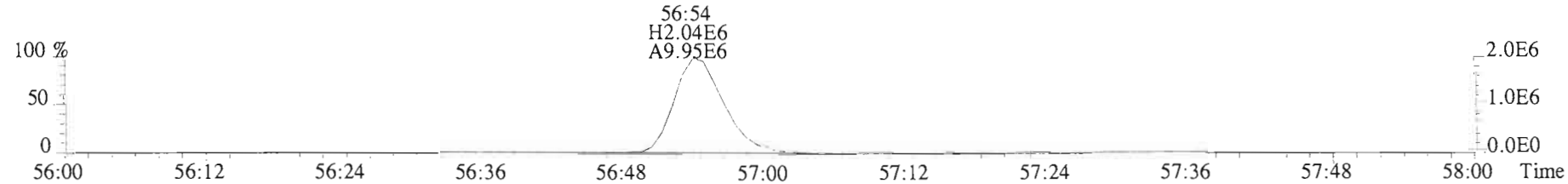
499.6797 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1668.0,0.00%,F,F)



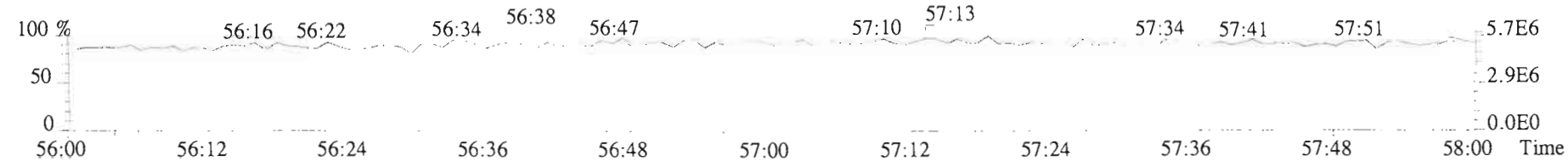
509.7229 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1712.0,0.00%,F,F)



511.7199 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1560.0,0.00%,F,F)



492.9697 S:4 F:5



EPA METHOD 1668C PCB ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory OPR Data Filename: B5A0099-BS1

Matrix : AQUEOUS Ext. Date: 1-26-15 Analysis Date: 27-JAN-15 Time: 11:43:13

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

NATIVE ANALYTES	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)
PCB-1	50	39.5	30.0-67.5
PCB-3	50	39.3	30.0-67.5
PCB-4/10	100	87.1	60.0-135
PCB-15	50	43.5	30.0-67.5
PCB-19	50	48.5	30.0-67.5
PCB-37	50	41.4	30.0-67.5
PCB-54	50	46.2	30.0-67.5
PCB-81	50	45.0	30.0-67.5
PCB-77	50	45.3	30.0-67.5
PCB-104	50	47.2	30.0-67.5
PCB-123	50	48.6	30.0-67.5
PCB-106/118	100	95.3	60.0-135
PCB-114	50	42.5	30.0-67.5
PCB-105	50	40.6	30.0-67.5
PCB-126	50	41.2	30.0-67.5
PCB-155	50	48.4	30.0-67.5
PCB-167	50	46.0	30.0-67.5
PCB-156	50	45.7	30.0-67.5
PCB-157	50	46.7	30.0-67.5
PCB-169	50	48.1	30.0-67.5
PCB-188	50	47.8	30.0-67.5
PCB-189	50	48.6	30.0-67.5
PCB-202	50	49.8	30.0-67.5
PCB-205	50	44.9	30.0-67.5
PCB-208	50	45.5	30.0-67.5
PCB-206	50	45.9	30.0-67.5
PCB-209	50	46.1	30.0-67.5

LABELED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)
13C-PCB-1	100	84.9	15-145
13C-PCB-3	100	87.5	15-145
13C-PCB-4	100	77.8	15-145
13C-PCB-11	100	85.4	15-145
13C-PCB-19	100	98.3	15-145
13C-PCB-37	100	90.0	15-145
13C-PCB-54	100	77.1	15-145
13C-PCB-81	100	95.2	40-145
13C-PCB-77	100	97.9	40-145
13C-PCB-104	100	83.9	40-145
13C-PCB-123	100	102.0	40-145
13C-PCB-118	100	97.2	40-145
13C-PCB-114	100	84.8	40-145
13C-PCB-105	100	88.9	40-145
13C-PCB-126	100	96.0	40-145
13C-PCB-155	100	81.6	40-145
13C-PCB-167	100	95.1	40-145
13C-PCB-156	100	98.1	40-145
13C-PCB-157	100	96.3	40-145
13C-PCB-169	100	100.2	40-145
13C-PCB-188	100	82.9	40-145
13C-PCB-189	100	101.0	40-145
13C-PCB-202	100	86.8	40-145
13C-PCB-194	100	99.8	40-145
13C-PCB-208	100	97.3	40-145
13C-PCB-206	100	106.5	40-145
13C-PCB-209	100	114.1	40-145

CLEAN UP STANDARD	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)
13C-PCB-79	100	98.3	40-145
13C-PCB-178	100	99.9	40-145

Analyst: DMS

Date: 1/29/15

Client ID: OPR Filename: 150127E1 S:2 Acq:27-JAN-15 11:43:13 ConCal: ST150127E1-1
Lab ID: B5A0099-BS1 GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-1	2.96e+07	3.00	y	1.33	16:09	1.001	0.997	1.007	39.5240
	PCB-2	3.14e+07	3.00	y	1.30	18:32	0.988	0.983	0.993	40.4460
	PCB-3	3.06e+07	3.02	y	1.30	18:46	1.001	0.996	1.006	39.3092
	PCB-4/10	4.93e+07	1.63	y	1.67	20:08	1.003	0.997	1.007	87.1429
	PCB-7/9	6.04e+07	1.64	y	1.25	21:55	0.868	0.864	0.872	87.4406
	PCB-6	2.99e+07	1.68	y	1.24	22:33	0.893	0.888	0.897	43.7965
	PCB-5/8	6.36e+07	1.65	y	1.27	22:58	0.910	0.905	0.915	90.7673
	PCB-14	3.73e+07	1.64	y	1.47	24:04	0.953	0.948	0.958	42.6958
	PCB-11	3.29e+07	1.67	y	1.28	25:15	1.000	0.995	1.005	43.2249
	PCB-12/13	6.66e+07	1.64	y	1.27	25:39	1.016	1.011	1.021	88.5990
	PCB-15	3.72e+07	1.67	y	1.44	25:58	1.029	1.023	1.031	43.5282
	PCB-19	2.31e+07	1.07	y	1.18	24:15	1.001	0.996	1.006	48.5203
	PCB-30	3.65e+07	1.07	y	1.87	25:08	1.038	1.033	1.043	48.4468
	PCB-18	2.58e+07	1.05	y	0.89	25:53	0.954	0.949	0.959	48.3316
	PCB-17	2.80e+07	1.08	y	0.96	26:03	0.960	0.956	0.966	48.5862
	PCB-24/27	7.45e+07	1.07	y	1.30	26:38	0.981	0.977	0.987	95.1571
-	PCB-16/32	6.15e+07	1.06	y	1.05	27:09	1.000	0.996	1.006	97.3440
-	PCB-34	2.11e+07	1.00	y	1.30	27:56	0.960	0.955	0.965	39.2720
	PCB-23	2.27e+07	1.02	y	1.21	28:02	0.964	0.958	0.968	45.3901
	PCB-29	2.43e+07	1.00	y	1.21	28:17	0.972	0.967	0.977	48.5381
	PCB-26	2.34e+07	1.02	y	1.24	28:29	0.979	0.974	0.984	45.8058
	PCB-25	2.06e+07	1.03	y	1.10	28:39	0.985	0.980	0.990	45.3535
	PCB-31	2.51e+07	1.02	y	1.25	29:01	0.997	0.992	1.002	48.5180
	PCB-28	2.14e+07	1.02	y	1.24	29:07	1.001	0.996	1.006	41.7897
	PCB-20/21/33	6.81e+07	1.03	y	1.16	29:43	1.022	1.016	1.026	142.313
	PCB-22	2.40e+07	1.01	y	1.16	30:10	1.037	1.032	1.042	49.9165
	PCB-36	2.49e+07	1.02	y	1.30	30:47	0.934	0.929	0.939	43.0818
	PCB-39	2.38e+07	0.99	y	1.26	31:15	0.948	0.943	0.953	42.3266
	PCB-38	2.23e+07	1.02	y	1.24	32:02	0.972	0.967	0.977	40.2299
	PCB-35	2.26e+07	1.01	y	1.26	32:32	0.987	0.982	0.992	40.3642
	PCB-37	2.49e+07	1.00	y	1.35	32:58	1.000	0.996	1.006	41.4399
	PCB-54	2.47e+07	0.75	y	1.02	28:00	1.001	0.996	1.006	46.1722
	PCB-50	1.99e+07	0.73	y	0.78	29:09	1.042	1.037	1.047	48.8491
	PCB-53	2.11e+07	0.75	y	1.14	29:47	0.945	0.941	0.951	46.3490
	PCB-51	2.20e+07	0.74	y	1.16	30:08	0.956	0.952	0.962	47.3408
	PCB-45	1.97e+07	0.74	y	1.04	30:34	0.970	0.965	0.975	47.2758
	PCB-46	1.85e+07	0.75	y	0.95	31:04	0.986	0.981	0.991	48.5967

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
PCB-52/69	4.55e+07	0.76	y	1.29	31:32	1.001	0.996	1.006	88.0183
PCB-73	2.58e+07	0.76	y	1.41	31:39	1.004	0.999	1.009	45.6156
PCB-43/49	4.20e+07	0.76	y	1.14	31:49	1.010	1.005	1.015	92.1238
PCB-47	2.26e+07	0.73	y	1.20	32:02	1.001	0.996	1.006	44.7627
PCB-48/75	5.03e+07	0.75	y	1.33	32:08	1.004	0.999	1.009	90.1322
PCB-65	2.40e+07	0.74	y	1.32	32:24	1.012	1.007	1.017	43.2472
PCB-62	2.65e+07	0.76	y	1.36	32:31	1.016	1.011	1.021	46.3114
PCB-44	1.80e+07	0.76	y	0.87	32:49	1.025	1.020	1.030	49.0356
PCB-42/59	4.95e+07	0.76	y	1.24	33:03	1.033	1.027	1.037	95.0525
PCB-41/64/71/72	1.06e+08	0.76	y	1.34	33:38	1.051	1.045	1.055	188.187
PCB-68	3.02e+07	0.75	y	1.61	33:53	1.059	1.053	1.063	44.6300
PCB-40	1.78e+07	0.74	y	0.86	34:07	1.066	1.061	1.071	49.2904
PCB-57	2.85e+07	0.75	y	1.12	34:28	0.970	0.965	0.975	44.5234
PCB-67	2.76e+07	0.74	y	1.09	34:46	0.979	0.974	0.984	44.3294
PCB-58	3.08e+07	0.75	y	1.14	34:53	0.982	0.977	0.987	47.4653
PCB-63	3.09e+07	0.77	y	1.16	35:02	0.986	0.981	0.991	46.5630
PCB-74	3.03e+07	0.74	y	1.21	35:19	0.994	0.989	0.999	43.7479
PCB-61/70	5.97e+07	0.74	y	1.13	35:31	1.000	0.995	1.005	92.8641
PCB-76/66	6.15e+07	0.76	y	1.18	35:43	1.005	1.000	1.010	91.3968
PCB-80	3.38e+07	0.76	y	1.32	35:57	1.000	0.995	1.005	44.2914
PCB-55	3.23e+07	0.74	y	1.23	36:16	1.009	1.004	1.014	45.5808
PCB-56/60	6.09e+07	0.75	y	1.11	36:46	1.023	1.018	1.028	95.5621
PCB-79	3.12e+07	0.76	y	1.16	37:50	1.053	1.048	1.058	46.6845
PCB-78	3.19e+07	0.76	y	1.18	38:31	0.987	0.982	0.992	44.4760
PCB-81	3.54e+07	0.76	y	1.29	39:03	1.000	0.995	1.005	45.0454
PCB-77	3.54e+07	0.79	y	1.29	39:38	1.000	0.995	1.005	45.3385
PCB-104	2.37e+07	1.56	y	1.26	32:41	1.001	0.996	1.006	47.1911
PCB-96	2.20e+07	1.59	y	1.09	33:56	1.039	1.034	1.044	50.7384
PCB-103	1.99e+07	1.58	y	0.97	34:28	1.055	1.051	1.061	51.6854
PCB-100	1.94e+07	1.59	y	0.96	34:50	1.066	1.061	1.071	50.6179
PCB-94	1.74e+07	1.63	y	1.13	35:18	0.985	0.980	0.990	48.1368
PCB-95/98/102	5.68e+07	1.59	y	1.29	35:48	0.999	0.994	1.004	138.252
PCB-93	1.72e+07	1.63	y	1.06	35:56	1.003	0.998	1.008	50.6258
PCB-88/91	3.71e+07	1.58	y	1.12	36:13	1.011	1.006	1.016	103.369
PCB-121	2.40e+07	1.58	y	1.76	36:20	1.014	1.009	1.019	42.7787
PCB-84/92	3.67e+07	1.61	y	1.07	37:08	0.990	0.985	0.995	99.3717
PCB-89	1.75e+07	1.54	y	1.00	37:20	0.995	0.990	1.000	51.0282

RL: MONO, TRI - DECA: —

RL: DI : —

Integrations by Analyst: DMS Date: 1/29/15

Reviewed by Analyst: [signature] Date: 1/30/15

Client ID: OPR Filename: 150127E1 S:2 Acq:27-JAN-15 11:43:13 ConCal: ST150127E1-1

Lab ID: B5A0099-BS1 GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-90/101	3.92e+07	1.55	y	1.21	37:31	1.000	0.995	1.005	94.2648
	PCB-113	2.48e+07	1.57	y	1.34	37:45	1.006	1.002	1.012	53.5559
	PCB-99	1.80e+07	1.62	y	1.25	37:52	1.010	1.004	1.014	41.8760
	PCB-119	2.68e+07	1.59	y	1.88	38:19	0.987	0.982	0.992	45.1394
	PCB-108/112	4.14e+07	1.58	y	1.41	38:28	0.991	0.986	0.996	93.1738
	PCB-83	2.46e+07	1.60	y	1.66	38:37	0.995	0.990	1.000	46.7950
	PCB-97	1.88e+07	1.60	y	1.30	38:49	1.000	0.995	1.005	45.8089
	PCB-86	1.61e+07	1.54	y	1.03	38:57	1.004	0.999	1.009	49.3733
	B-87/117/125	6.92e+07	1.60	y	1.59	39:05	1.007	1.002	1.012	137.657
	PCB-111/115	5.18e+07	1.58	y	1.86	39:14	1.011	1.006	1.016	88.3735
	PCB-85/116	4.36e+07	1.59	y	1.39	39:22	1.014	1.010	1.020	99.1466
	PCB-120	2.80e+07	1.57	y	1.99	39:37	1.021	1.016	1.026	44.5773
	PCB-110	2.51e+07	1.61	y	1.70	39:45	1.024	1.019	1.029	46.7601
	PCB-82	1.62e+07	1.58	y	0.74	40:23	0.976	0.971	0.981	49.5186
	PCB-124	2.74e+07	1.53	y	1.30	41:04	0.993	0.988	0.998	47.7538
	PCB-107/109	5.35e+07	1.60	y	1.34	41:13	0.996	0.991	1.001	90.9792
	PCB-123	2.68e+07	1.58	y	1.25	41:23	1.000	0.995	1.005	48.5531
-	PCB-106/118	5.49e+07	1.58	y	1.29	41:35	1.001	0.996	1.006	95.2904
-	PCB-114	2.74e+07	1.61	y	1.45	42:13	1.000	0.995	1.005	42.5135
	PCB-122	2.33e+07	1.63	y	1.22	42:21	1.004	0.999	1.009	43.0566
	PCB-105	2.81e+07	1.62	y	1.56	43:04	1.000	0.995	1.005	40.6223
	PCB-127	2.61e+07	1.64	y	1.31	43:25	1.001	0.995	1.005	41.4235
	PCB-126	2.62e+07	1.64	y	1.41	45:18	1.000	0.995	1.005	41.1874
	PCB-155	2.02e+07	1.27	y	1.20	37:04	1.001	0.966	1.006	48.3824
	PCB-150	2.01e+07	1.28	y	1.13	38:20	1.035	1.030	1.040	51.3145
	PCB-152	2.02e+07	1.29	y	1.17	38:48	1.048	1.043	1.053	49.7277
	PCB-145	1.93e+07	1.28	y	1.09	39:15	1.060	1.055	1.065	50.8211
	PCB-136	2.18e+07	1.25	y	1.14	39:35	1.068	1.063	1.073	54.9702
	PCB-148	1.41e+07	1.28	y	0.82	39:41	1.071	1.066	1.076	49.6470
	PCB-154	1.64e+07	1.27	y	0.89	40:10	1.084	1.079	1.089	53.0679
	PCB-151	1.63e+07	1.25	y	0.82	40:49	1.102	1.097	1.107	57.2579
	PCB-135	1.54e+07	1.26	y	0.80	41:01	1.107	1.101	1.113	55.6004
	PCB-144	1.69e+07	1.40	y	0.86	41:08	1.110	1.105	1.116	56.8712
	PCB-147	1.49e+07	1.22	y	0.78	41:16	1.114	1.108	1.120	55.1297
	PCB-139/149	3.31e+07	1.26	y	0.87	41:32	1.121	1.115	1.127	109.135
-	PCB-140	1.55e+07	1.27	y	0.78	41:43	1.126	1.120	1.132	57.3171
-	PCB-134/143	4.06e+07	1.25	y	0.93	42:08	0.975	0.970	0.980	91.5263

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
PCB-133/142	4.02e+07	1.22	y	0.91	42:27	0.982	0.977	0.987	92.8590
PCB-131	1.99e+07	1.26	y	0.85	42:36	0.986	0.981	0.991	49.5574
PCB-146/165	4.82e+07	1.26	y	1.08	42:49	0.991	0.986	0.996	93.5673
PCB-132/161	4.93e+07	1.25	y	1.12	43:04	0.996	0.992	1.002	92.5763
PCB-153	2.40e+07	1.26	y	1.20	43:14	1.000	0.996	1.006	42.0939
PCB-168	2.92e+07	1.23	y	1.36	43:27	1.005	1.000	1.010	45.1637
PCB-141	2.23e+07	1.28	y	1.16	43:58	1.000	0.995	1.005	45.9518
PCB-137	2.35e+07	1.26	y	1.18	44:21	1.009	1.004	1.014	47.6770
PCB-130	1.97e+07	1.26	y	0.92	44:27	1.011	1.006	1.016	50.9645
PCB-138/163/164	7.90e+07	1.26	y	1.38	44:50	1.001	0.996	1.006	132.206
PCB-158/160	5.91e+07	1.26	y	1.48	45:04	1.006	1.001	1.011	92.5131
PCB-129	2.00e+07	1.25	y	0.99	45:19	1.012	1.007	1.017	46.6407
PCB-166	2.91e+07	1.25	y	1.14	45:46	0.993	0.988	0.998	47.1847
PCB-159	3.02e+07	1.24	y	1.22	46:05	1.000	0.995	1.005	45.7528
PCB-128/162	5.14e+07	1.25	y	1.03	46:23	1.006	1.002	1.012	91.9365
PCB-167	2.97e+07	1.24	y	1.18	46:47	1.000	0.995	1.005	45.9930
PCB-156	3.20e+07	1.25	y	1.27	48:05	1.001	0.995	1.005	45.6745
PCB-157	3.23e+07	1.24	y	1.22	48:21	1.000	0.995	1.005	46.7255
PCB-169	2.98e+07	1.25	y	1.07	50:30	1.000	0.995	1.005	48.0508
PCB-188	2.54e+07	1.06	y	1.52	42:52	1.000	0.996	1.006	47.7564
PCB-184	2.29e+07	1.06	y	1.34	43:19	1.011	1.006	1.016	48.9279
PCB-179	2.50e+07	1.05	y	1.39	44:06	1.029	1.024	1.034	51.3318
PCB-176	2.60e+07	1.07	y	1.45	44:34	1.040	1.035	1.045	51.1135
PCB-186	2.66e+07	1.07	y	1.46	45:10	1.054	1.049	1.059	52.1578
PCB-178	2.01e+07	1.05	y	1.07	45:40	1.066	1.061	1.071	53.3929
PCB-175	2.00e+07	1.07	y	1.05	46:01	1.074	1.069	1.079	54.5869
PCB-182/187	4.20e+07	1.06	y	1.14	46:11	1.078	1.073	1.083	105.727
PCB-183	2.24e+07	1.06	y	1.22	46:30	1.085	1.080	1.090	52.3727
PCB-185	2.04e+07	1.06	y	1.40	47:10	0.956	0.950	0.960	46.6437
PCB-174	1.86e+07	1.05	y	1.29	47:31	0.963	0.958	0.968	46.4417
PCB-181	2.04e+07	1.06	y	1.35	47:38	0.965	0.960	0.970	48.6082
PCB-177	1.84e+07	1.04	y	1.27	47:47	0.968	0.963	0.973	46.8170
PCB-171	2.06e+07	1.06	y	1.46	48:05	0.974	0.969	0.979	45.6299
PCB-173	1.78e+07	1.05	y	1.10	48:31	0.983	0.978	0.988	51.8235
PCB-172	2.05e+07	1.03	y	1.35	48:58	0.992	0.987	0.997	48.6834
PCB-192	2.64e+07	1.07	y	1.74	49:09	0.996	0.991	1.001	48.9464
PCB-180	2.10e+07	1.06	y	1.45	49:22	1.000	0.995	1.005	46.5488

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	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-193	2.74e+07	1.06	y	1.85	49:34	1.005	0.999	1.009	47.6520
	PCB-191	2.79e+07	1.06	y	1.86	49:50	1.010	1.005	1.015	48.2019
	PCB-170	2.03e+07	1.04	y	1.67	50:53	1.000	0.995	1.005	47.8061
	PCB-190	2.76e+07	1.04	y	2.25	51:04	1.004	0.999	1.009	48.4390
	PCB-189	2.74e+07	1.05	y	1.67	52:25	1.000	0.995	1.005	48.5886
	PCB-202	1.81e+07	0.89	y	1.02	48:17	1.000	0.995	1.005	49.7848
	PCB-201	2.05e+07	0.93	y	1.10	48:47	1.011	1.005	1.015	52.4819
	PCB-204	1.91e+07	0.89	y	1.07	48:56	1.014	1.009	1.019	49.8365
	PCB-197	2.15e+07	0.91	y	1.17	49:14	1.020	1.015	1.025	51.7528
	PCB-200	1.99e+07	0.89	y	1.03	50:08	1.039	1.034	1.044	53.7930
	PCB-198	1.43e+07	0.90	y	0.75	51:29	1.067	1.062	1.072	53.3385
	PCB-199	1.56e+07	0.93	y	0.74	51:36	1.069	1.064	1.074	58.8578
-	PCB-196/203	3.22e+07	0.89	y	0.83	51:52	1.075	1.070	1.080	108.733
-	PCB-195	1.57e+07	0.91	y	1.14	53:04	0.984	0.979	0.989	46.1965
	PCB-194	1.71e+07	0.89	y	1.29	53:56	1.000	0.995	1.005	44.2921
	PCB-205	2.16e+07	0.91	y	1.61	54:13	1.005	1.001	1.010	44.9382
	PCB-208	1.96e+07	1.38	y	1.01	53:12	1.000	0.995	1.005	45.5428
	PCB-207	1.98e+07	1.31	y	1.03	53:31	1.006	1.001	1.011	45.2839
	PCB-206	1.27e+07	1.37	y	0.88	55:34	1.000	0.995	1.005	45.9428
	PCB-209	2.02e+07	1.20	y	1.35	56:56	1.000	0.995	1.005	46.0671

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	9.17e+07	3.00	y	16:09	1.31	119.279	
Total Di-PCB	3.77e+08	1.63	y	20:08	1.32	527.195	
Total Tri-PCB	2.50e+08	1.07	y	24:15	1.20	386.386	
Total Tri-PCB	3.81e+08	1.00	y	27:56	1.23	737.878	Sum:1124.26
Total Tetra-PCB	1.13e+09	0.75	y	28:00	1.17	1961.39	
Total Penta-PCB	9.00e+08	1.56	y	32:41	1.24	1956.70	
Total Penta-PCB	1.39e+08	1.61	y	42:13	1.39	220.666	Sum:2177.36
Total Hexa-PCB	2.44e+08	1.27	y	37:04	0.94	749.242	
Total Hexa-PCB	7.15e+08	1.25	y	42:08	1.13	1305.07	Sum:2054.31
Total Hepta-PCB	5.49e+08	1.06	y	42:52	1.37	1197.22	
Total Octa-PCB	1.61e+08	0.89	y	48:17	0.95	478.578	
Total Octa-PCB	5.59e+07	0.91	y	53:04	1.35	138.950	Sum:617.529
Total Nona-PCB	5.21e+07	1.38	y	53:12	0.99	136.770	
Total Deca-PCB	2.02e+07	1.20	y	56:56	1.35	46.0671	

Total PCB Conc:9876.14757600

RL: MONO, TRI - DECA: ———

Integrations by Analyst: DMS

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Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	5.62e+07	3.41	y	0.91	16:08	0.622	0.619	0.625	84.9	84.9
13C-PCB-3	6.00e+07	3.40	y	0.94	18:45	0.723	0.718	0.726	87.5	87.5
13C-PCB-4	3.38e+07	1.57	y	0.60	20:05	0.774	0.770	0.778	77.8	77.8
13C-PCB-9	5.52e+07	1.58	y	0.96	21:52	0.843	0.839	0.847	78.9	78.9
13C-PCB-11	5.94e+07	1.57	y	0.95	25:15	0.973	0.968	0.978	85.4	85.4
13C-PCB-19	4.02e+07	1.11	y	0.56	24:13	0.934	0.929	0.939	98.3	98.3
13C-PCB-28	4.14e+07	1.05	y	1.07	29:05	1.003	0.999	1.009	75.3	75.3
13C-PCB-32	6.04e+07	1.09	y	0.83	27:08	1.046	1.041	1.051	100	100
13C-PCB-37	4.45e+07	1.06	y	0.96	32:58	1.137	1.131	1.143	90.0	90.0
13C-PCB-47	4.21e+07	0.78	y	0.77	32:00	0.871	0.867	0.875	85.6	85.6
13C-PCB-52	4.00e+07	0.79	y	0.71	31:31	0.857	0.853	0.861	87.7	87.7
13C-PCB-54	5.24e+07	0.78	y	1.06	27:58	0.761	0.757	0.765	77.1	77.1
13C-PCB-70	5.71e+07	0.80	y	0.99	35:32	0.966	0.961	0.971	89.7	89.7
13C-PCB-77	6.05e+07	0.78	y	0.96	39:38	1.078	1.073	1.083	97.9	97.9
13C-PCB-80	5.76e+07	0.80	y	1.02	35:57	0.978	0.973	0.983	88.0	88.0
13C-PCB-81	6.09e+07	0.80	y	1.00	39:02	1.062	1.057	1.067	95.2	95.2
13C-PCB-95	3.19e+07	1.61	y	0.70	35:49	0.913	0.908	0.918	93.1	93.1
13C-PCB-97	3.16e+07	1.56	y	0.66	38:48	0.989	0.984	0.994	98.0	98.0
13C-PCB-101	3.45e+07	1.59	y	0.77	37:31	0.956	0.951	0.961	91.8	91.8
13C-PCB-104	3.97e+07	1.60	y	0.97	32:40	0.832	0.828	0.836	83.9	83.9
13C-PCB-105	4.44e+07	1.59	y	1.20	43:04	0.929	0.924	0.934	88.9	88.9
13C-PCB-114	4.43e+07	1.59	y	1.26	42:12	0.910	0.905	0.915	84.8	84.8
13C-PCB-118	4.46e+07	1.61	y	0.94	41:33	1.059	1.054	1.064	97.2	97.2
13C-PCB-123	4.40e+07	1.59	y	0.88	41:22	1.054	1.049	1.059	102	102
13C-PCB-126	4.50e+07	1.55	y	1.13	45:18	0.977	0.972	0.982	96.0	96.0
13C-PCB-127	4.82e+07	1.62	y	1.26	43:24	0.936	0.931	0.941	92.1	92.1
13C-PCB-138	4.33e+07	1.30	y	1.12	44:48	0.966	0.961	0.971	93.1	93.1
13C-PCB-141	4.19e+07	1.25	y	1.09	43:57	0.948	0.943	0.953	92.2	92.2
13C-PCB-153	4.76e+07	1.30	y	1.27	43:13	0.932	0.927	0.937	89.9	89.9
13C-PCB-155	3.48e+07	1.28	y	0.87	37:03	0.944	0.939	0.949	81.6	81.6
13C-PCB-156	5.51e+07	1.31	y	1.35	48:03	1.037	1.032	1.042	98.1	98.1
13C-PCB-157	5.68e+07	1.33	y	1.42	48:20	1.043	1.037	1.047	96.3	96.3
13C-PCB-159	5.40e+07	1.26	y	1.37	46:05	0.994	0.989	0.999	94.8	94.8
13C-PCB-167	5.46e+07	1.25	y	1.38	46:46	1.009	1.004	1.014	95.1	95.1
13C-PCB-169	5.76e+07	1.30	y	1.38	50:30	1.089	1.084	1.094	100	100
13C-PCB-170	2.54e+07	0.47	y	0.60	50:52	1.097	1.091	1.103	101	101
13C-PCB-180	3.11e+07	0.46	y	0.76	49:21	1.065	1.059	1.069	98.8	98.8
13C-PCB-188	3.50e+07	0.46	y	1.01	42:51	0.924	0.919	0.929	82.9	82.9
13C-PCB-189	3.37e+07	0.45	y	0.80	52:24	1.130	1.124	1.136	101	101
13C-PCB-194	2.99e+07	0.89	y	0.75	53:55	0.995	0.990	1.000	99.8	99.8
13C-PCB-202	3.57e+07	0.95	y	0.99	48:16	1.041	1.036	1.046	86.8	86.8
13C-PCB-206	3.14e+07	0.77	y	0.73	55:33	1.025	1.020	1.301	107	107
13C-PCB-208	4.24e+07	0.78	y	1.08	53:12	0.981	0.977	0.987	97.3	97.3
13C-PCB-209	3.26e+07	1.16	y	0.71	56:55	1.050	1.045	1.055	114	114

CRS vs. RS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	6.43e+07	0.80	y	1.02	37:49	1.029	1.024	1.033	98.3	98.3
13C-PCB-178	2.65e+07	0.46	y	0.64	45:39	0.985	0.980	0.989	99.9	99.9

PS vs. IS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	6.43e+07	0.80	y	1.02	37:49	0.969	0.963	0.973	103	103
13C-PCB-178	2.65e+07	0.46	y	0.84	45:39	0.925	0.920	0.930	101	101

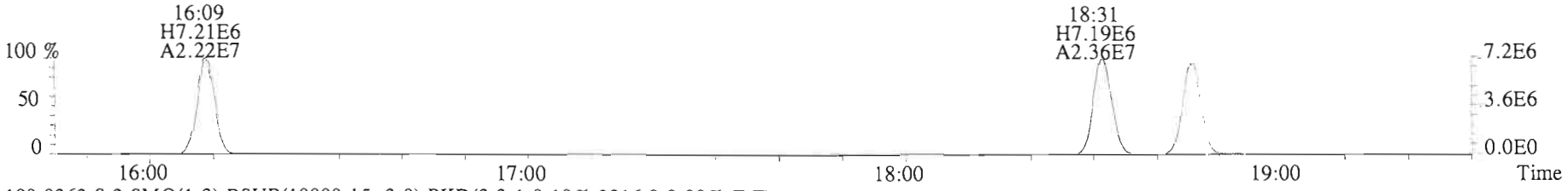
RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	7.28e+07	1.56	y	1.00	25:56	100
13C-PCB-31	5.14e+07	1.04	y	1.00	28:60	100
13C-PCB-60	6.41e+07	0.79	y	1.00	36:46	100
13C-PCB-111	4.90e+07	1.60	y	1.00	39:14	100
13C-PCB-128	4.16e+07	1.27	y	1.00	46:21	100
13C-PCB-205	4.02e+07	0.93	y	1.00	54:12	100

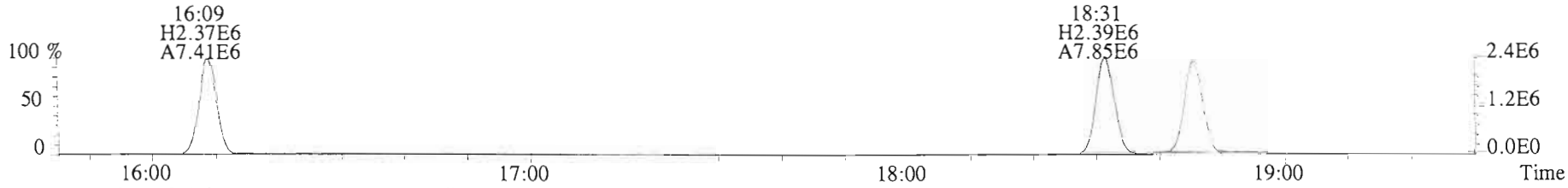
Analyst: DMS

Date: 1/29/15

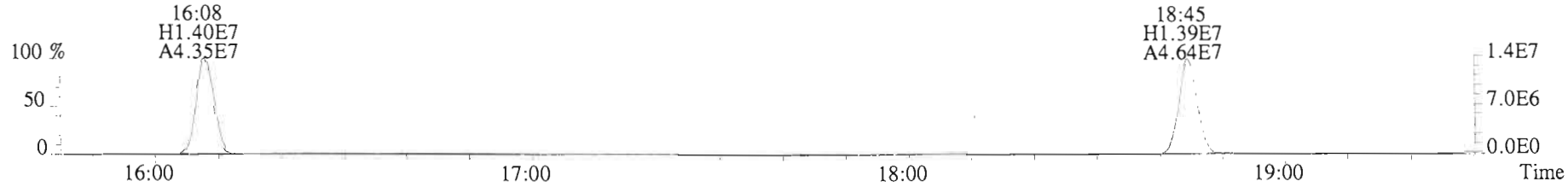
File:150127E1 #1-729 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
188.0393 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2608.0,0.00%,F,F)



190.0363 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3216.0,0.00%,F,F)

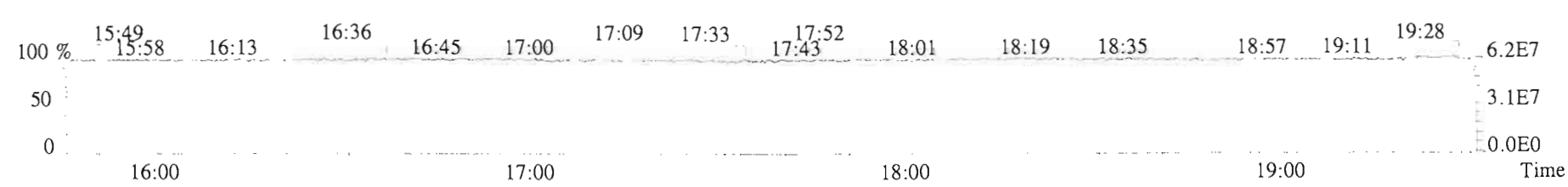


200.0795 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6588.0,0.00%,F,F)

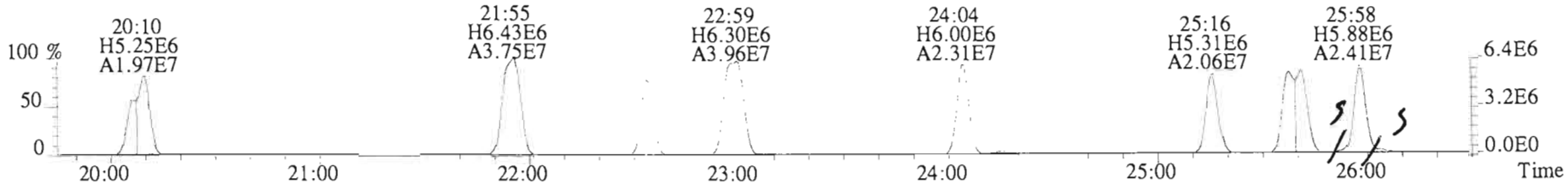


202.0766 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,28252.0,0.00%,F,F)

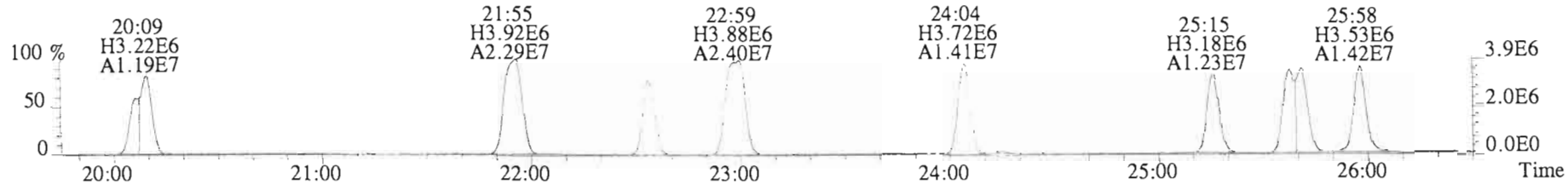
180.9880 S:2



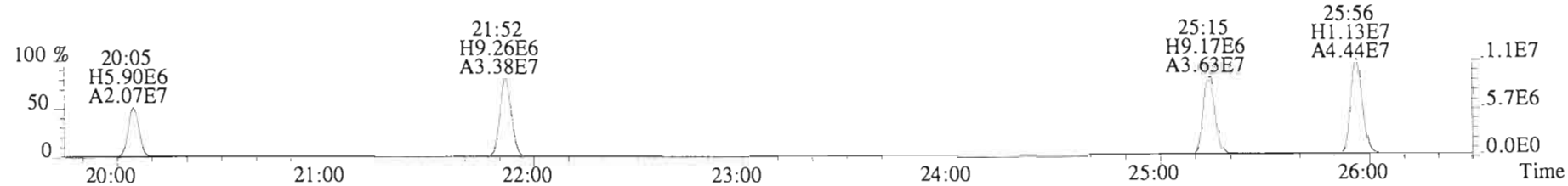
File:150127E1 #1-757 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3824.0,0.00%,F,F)



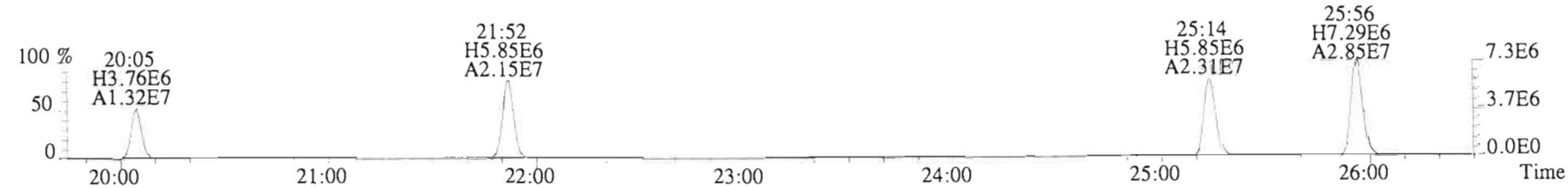
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,29916.0,0.00%,F,F)



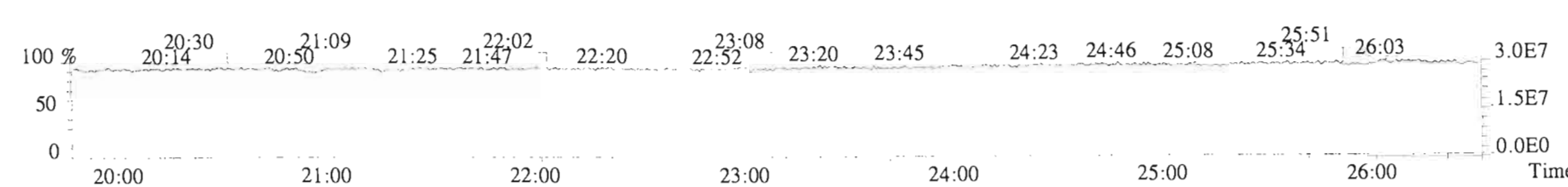
234.0406 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3120.0,0.00%,F,F)



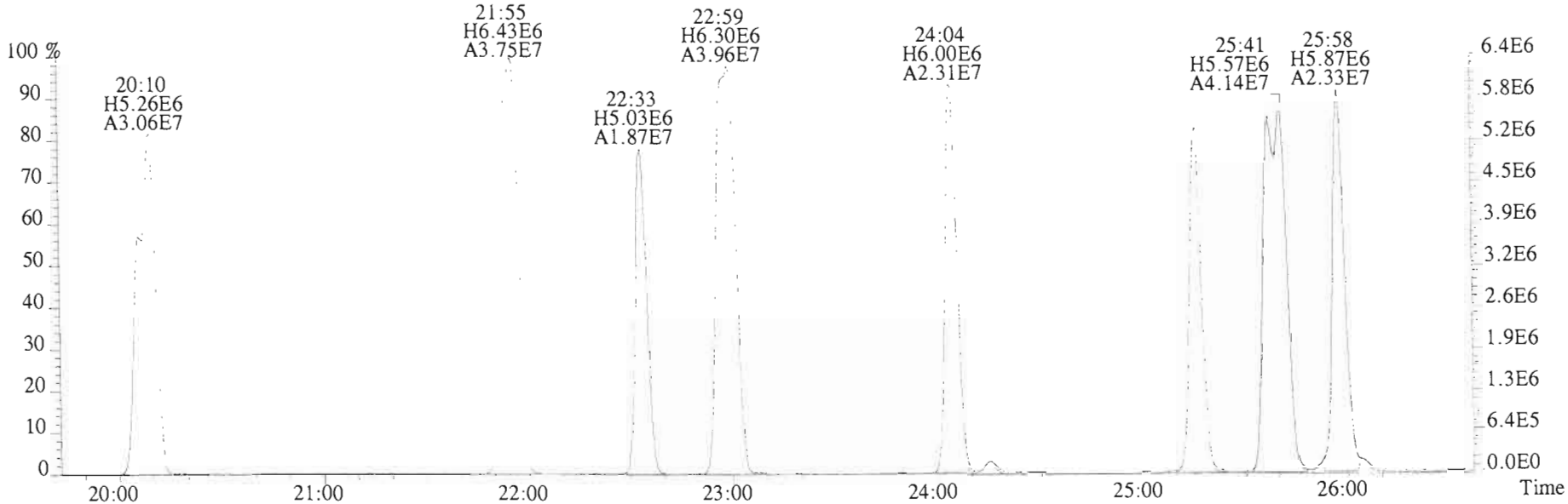
236.0376 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3820.0,0.00%,F,F)



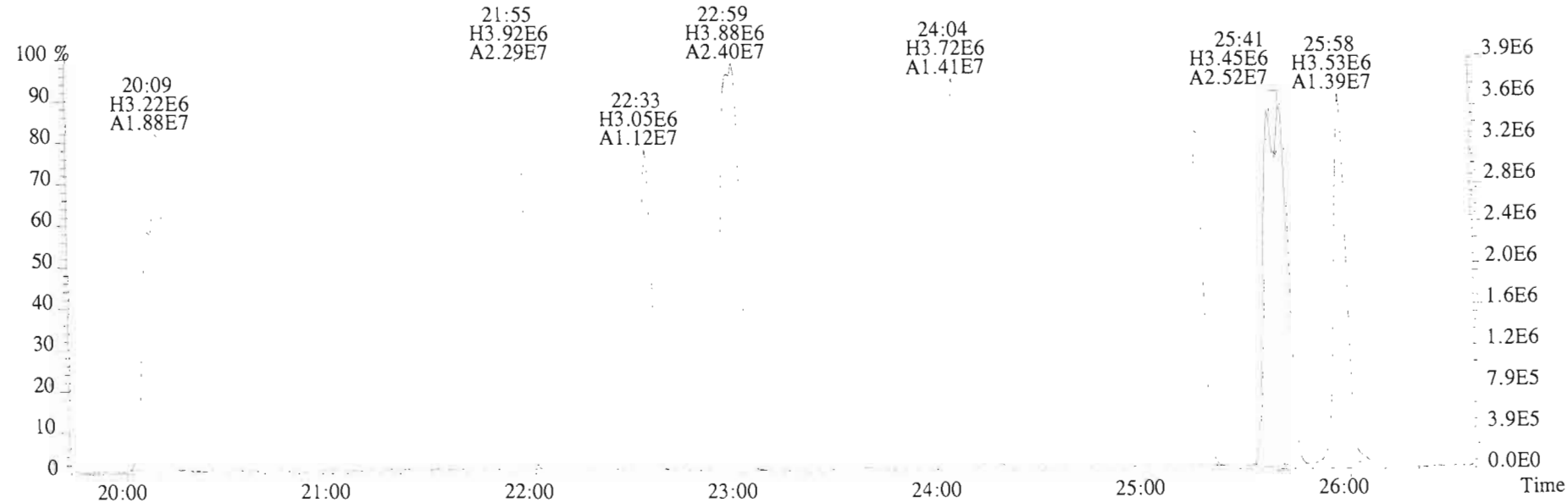
230.9856 S:2 F:2



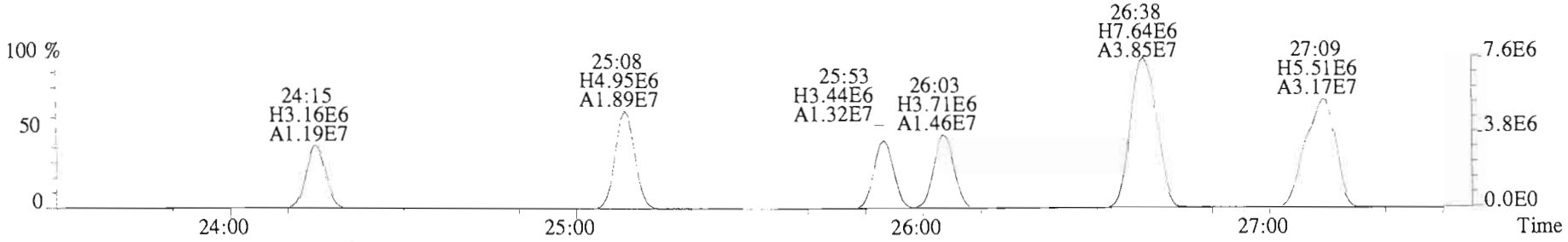
File:150127E1 #1-757 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3824.0,0.00%,F,F)



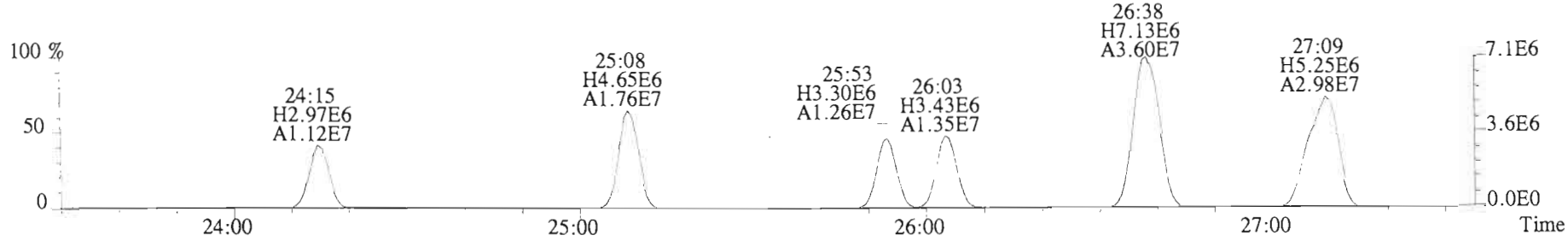
223.9974 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,29916.0,0.00%,F,F)



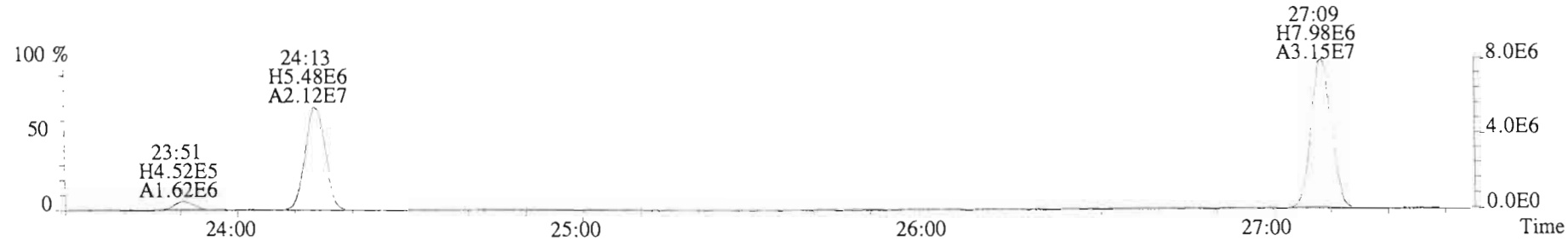
File:150127E1 #1-757 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
255.9613 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3348.0,0.00%,F,F)



257.9584 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1580.0,0.00%,F,F)

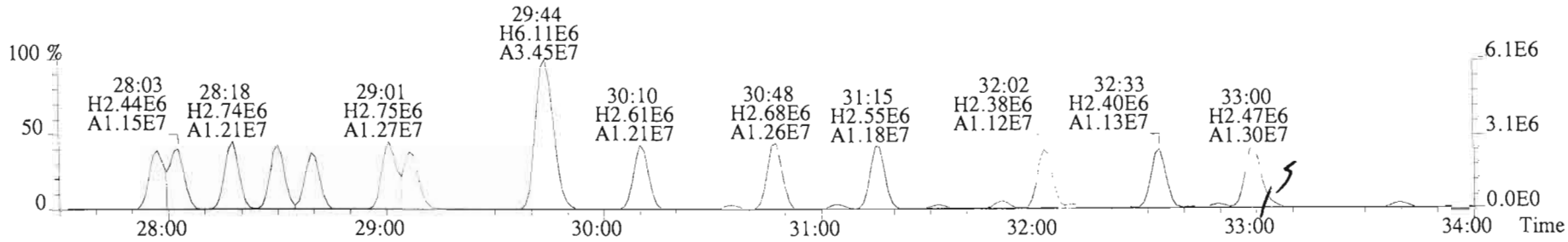


268.0016 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,29120.0,0.00%,F,F)

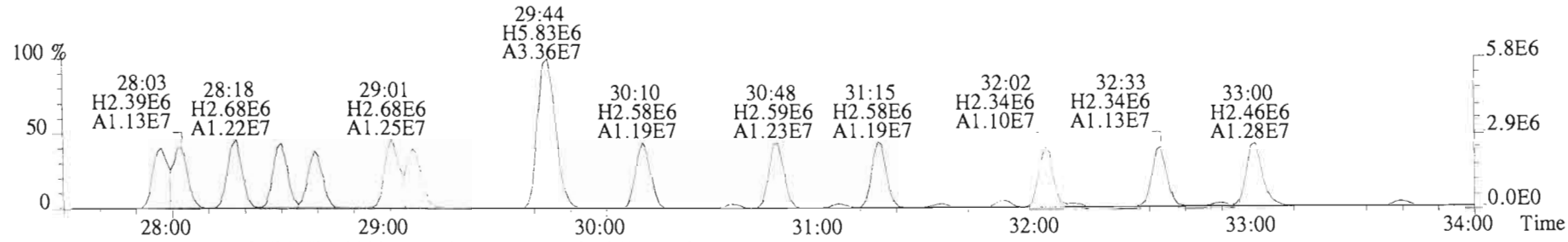


269.9986 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26236.0,0.00%,F,F)

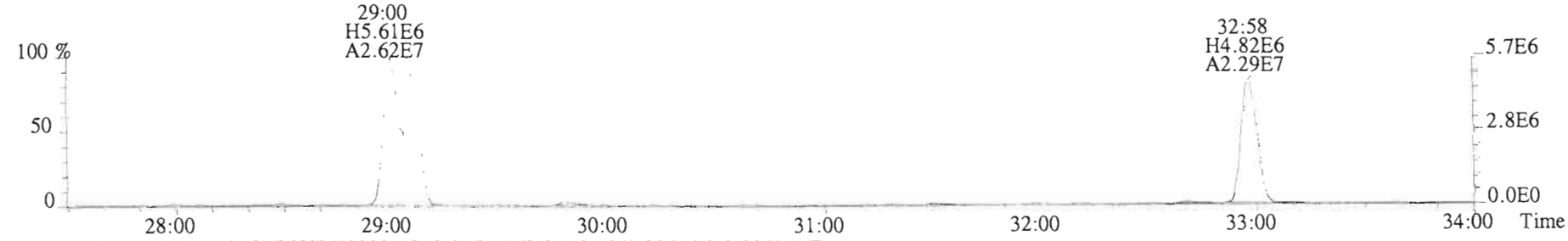
File:150127E1 #1-763 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4288.0,0.00%,F,F)



257.9584 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3868.0,0.00%,F,F)

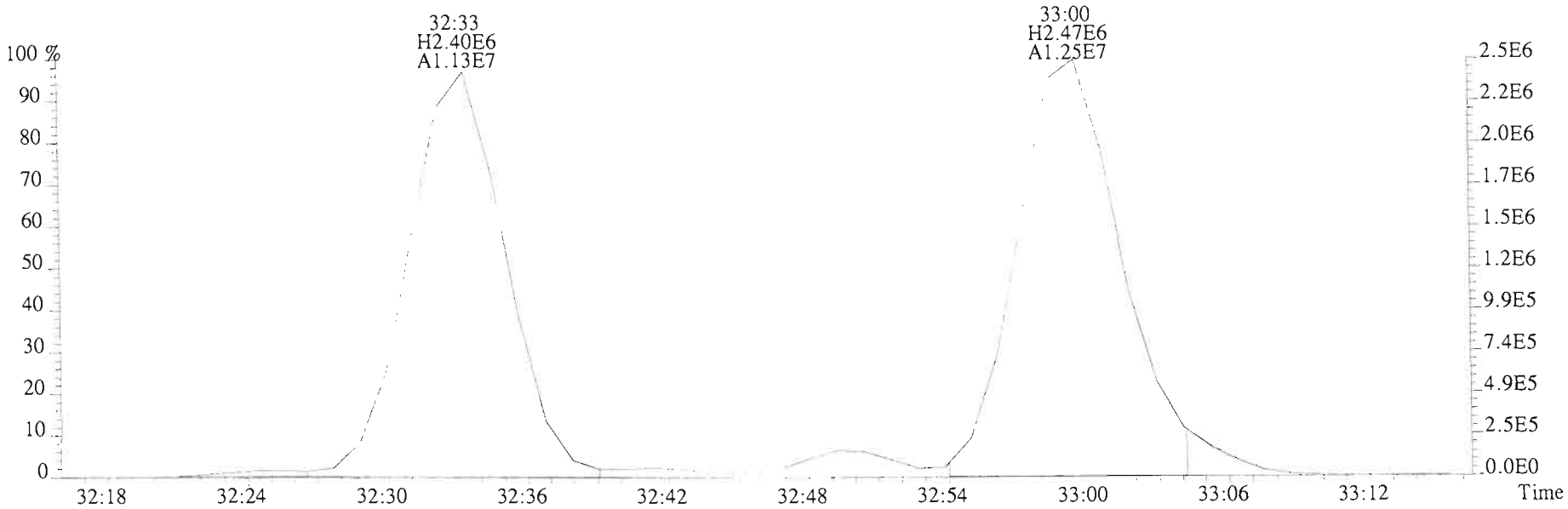


268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,34820.0,0.00%,F,F)

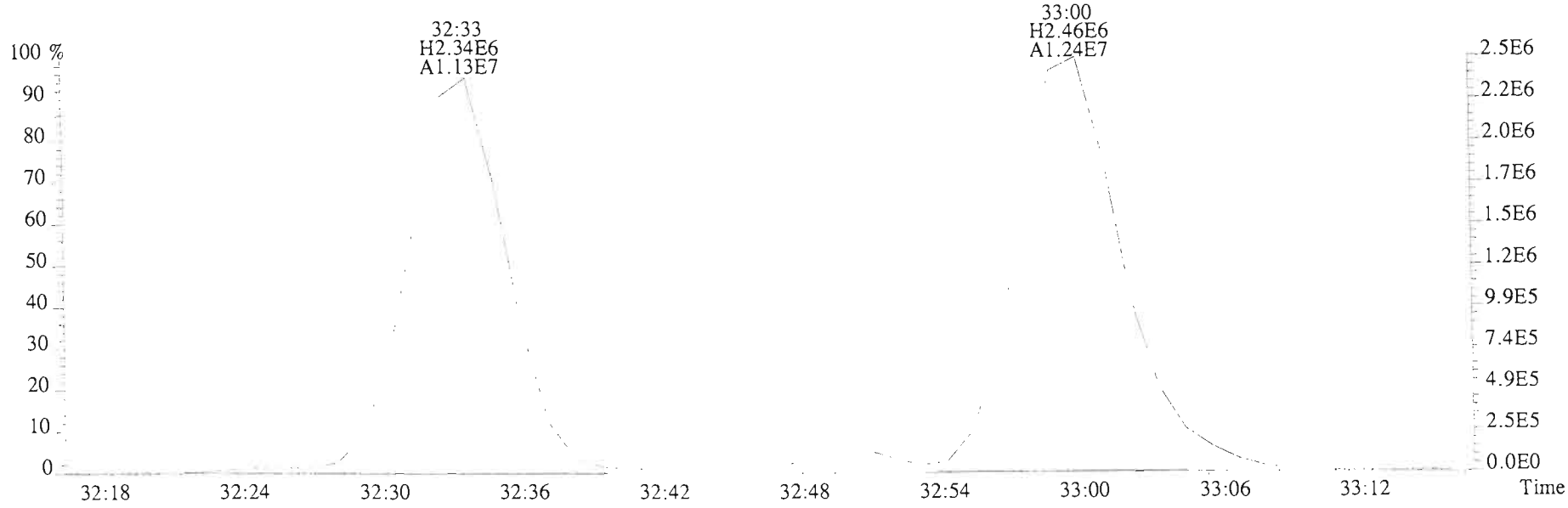


269.9986 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30616.0,0.00%,F,F)

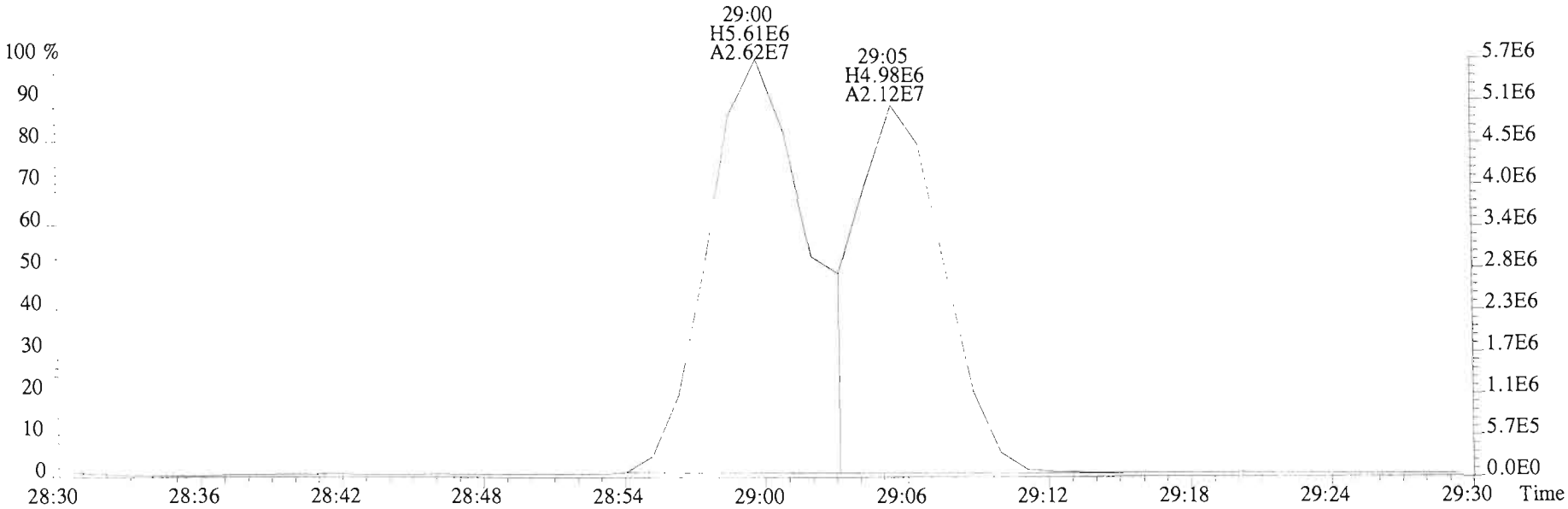
File:150127E1 #1-763 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4288.0,0.00%,F,F)



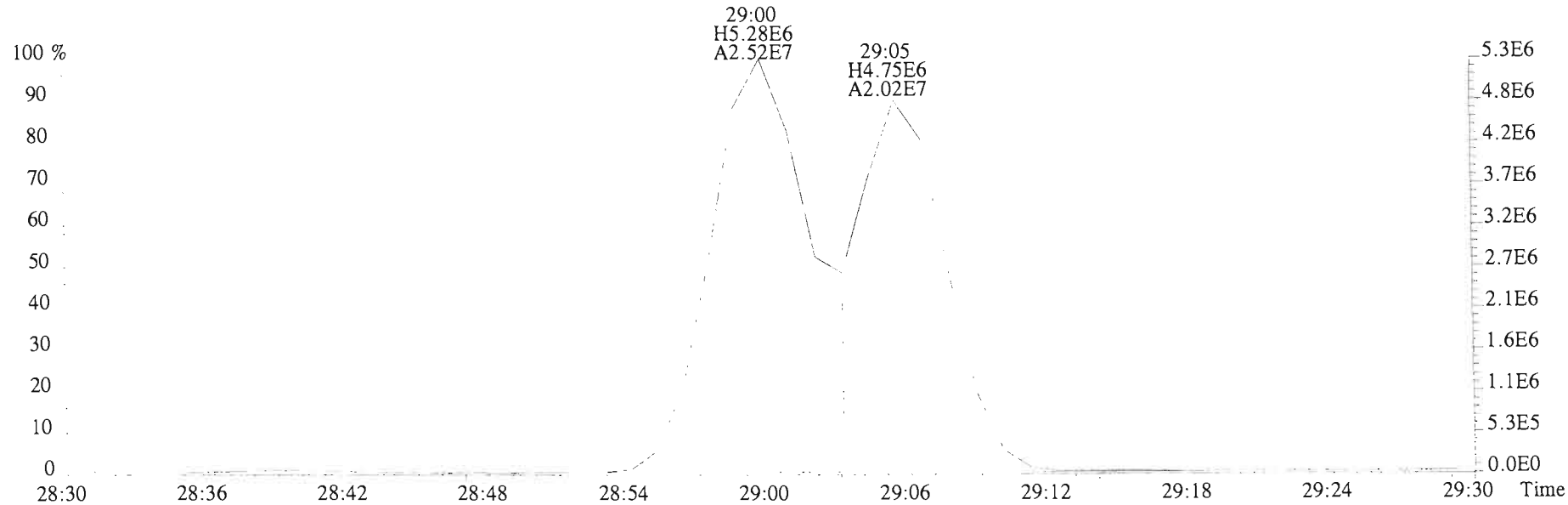
257.9584 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3868.0,0.00%,F,F)



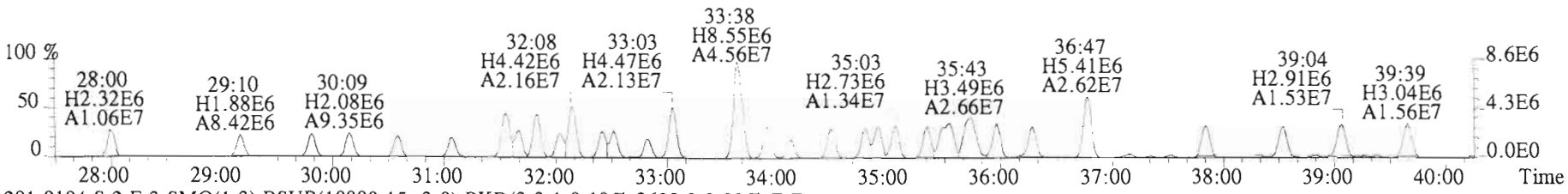
File:150127E1 #1-763 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,34820.0,0.00%,F,F)



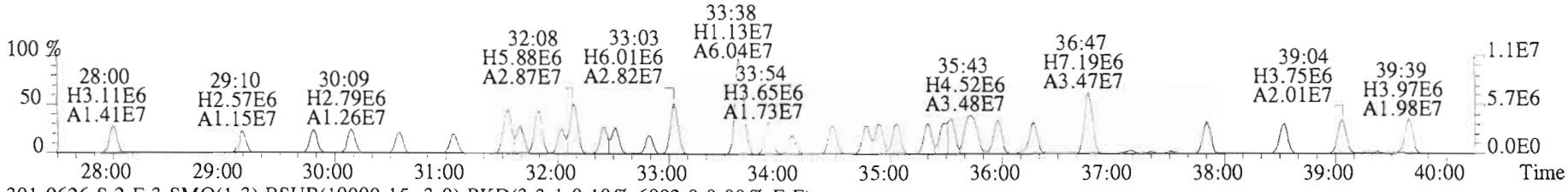
269.9986 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,30616.0,0.00%,F,F)



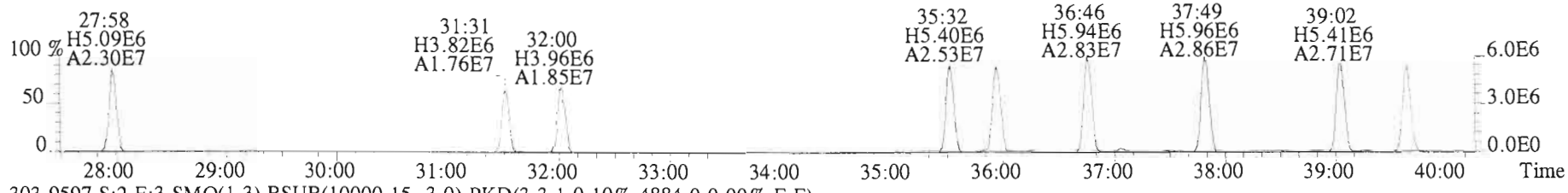
File:150127E1 #1-763 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2500.0,0.00%,F,F)



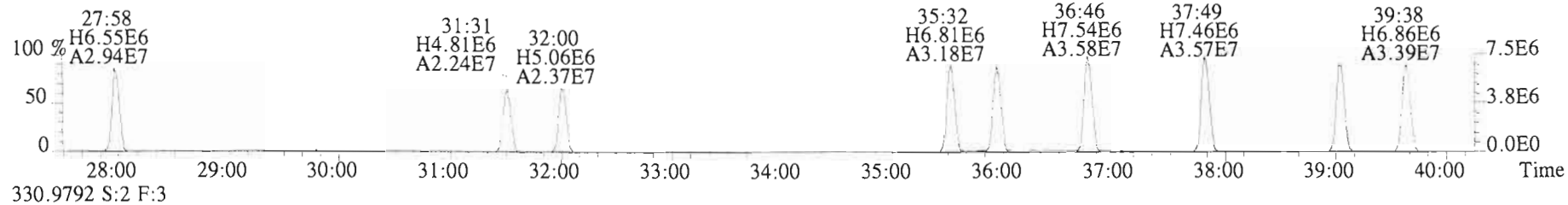
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2608.0,0.00%,F,F)



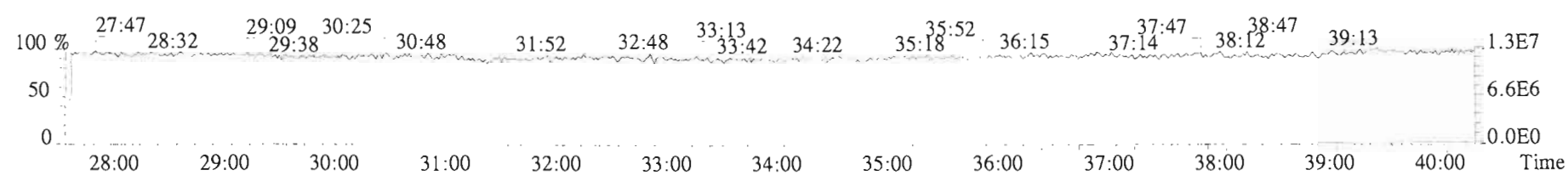
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6992.0,0.00%,F,F)



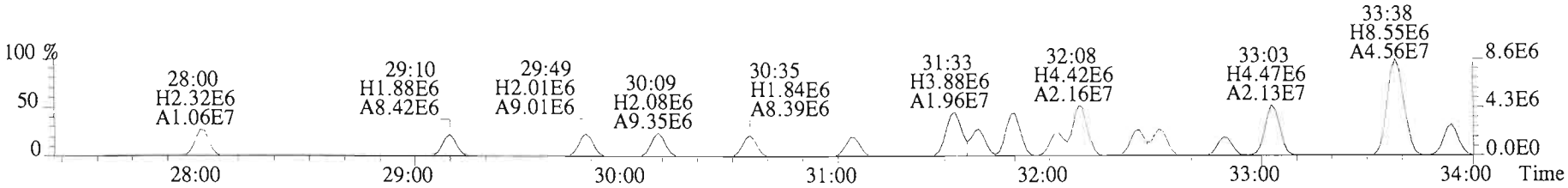
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4884.0,0.00%,F,F)



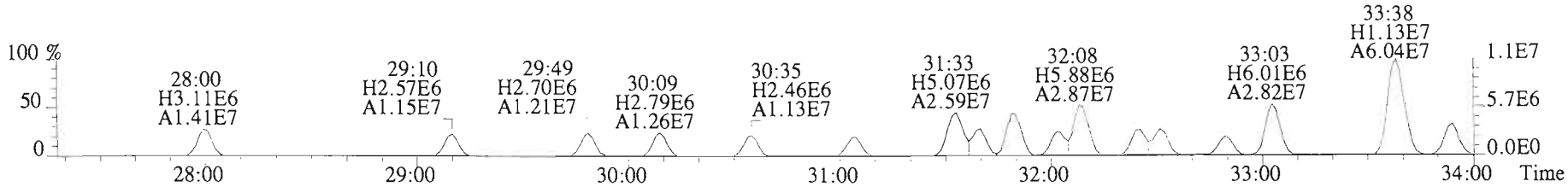
330.9792 S:2 F:3



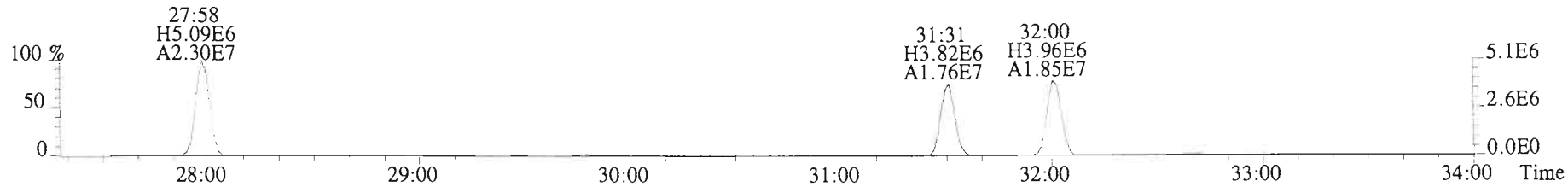
File:150127E1 #1-763 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2500.0,0.00%,F,F)



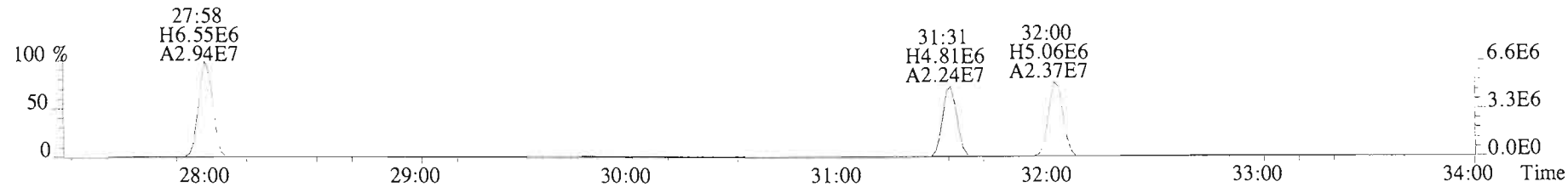
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2608.0,0.00%,F,F)



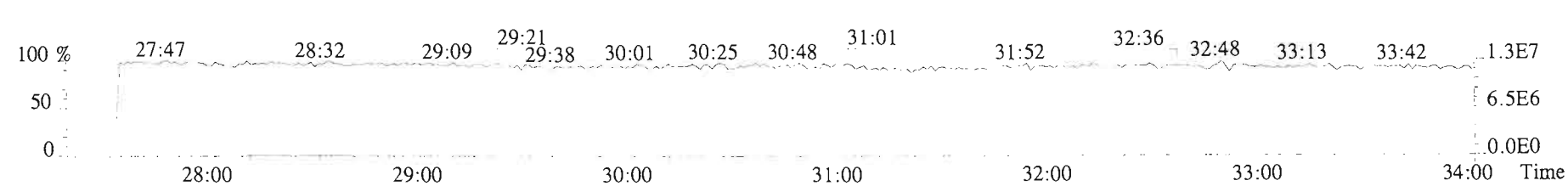
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6992.0,0.00%,F,F)



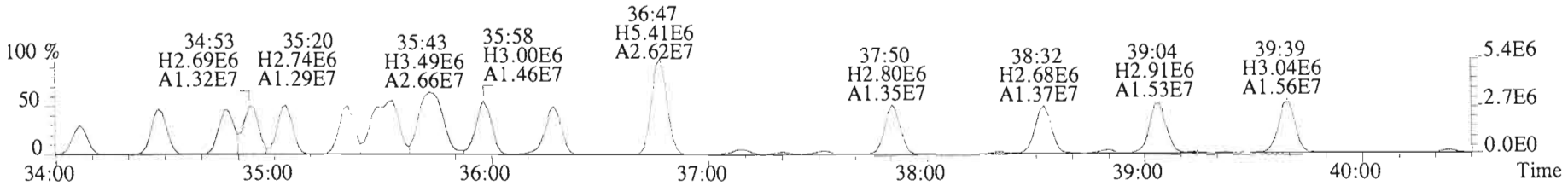
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4884.0,0.00%,F,F)



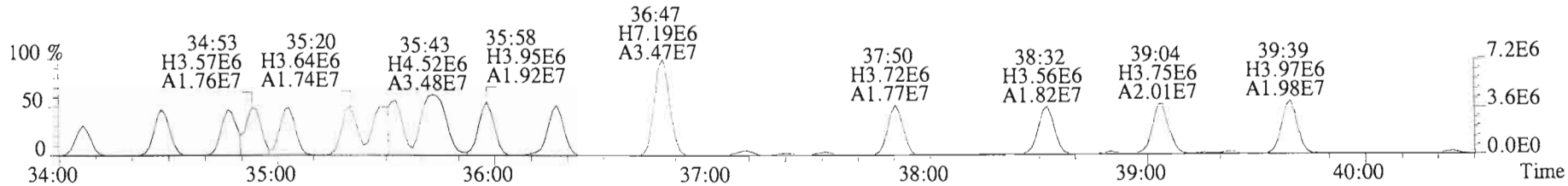
330.9792 S:2 F:3



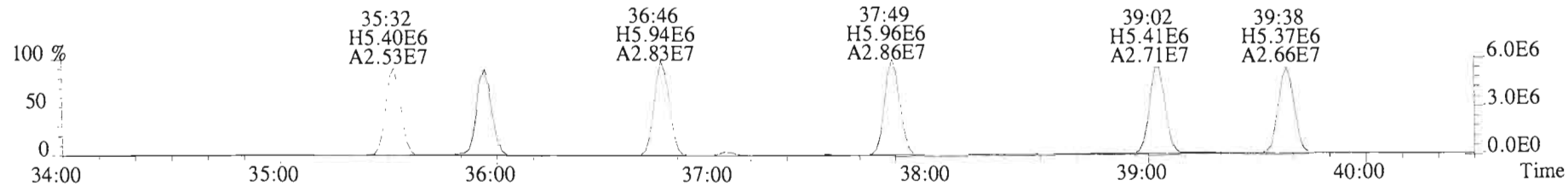
File:150127E1 #1-763 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2500.0,0.00%,F,F)



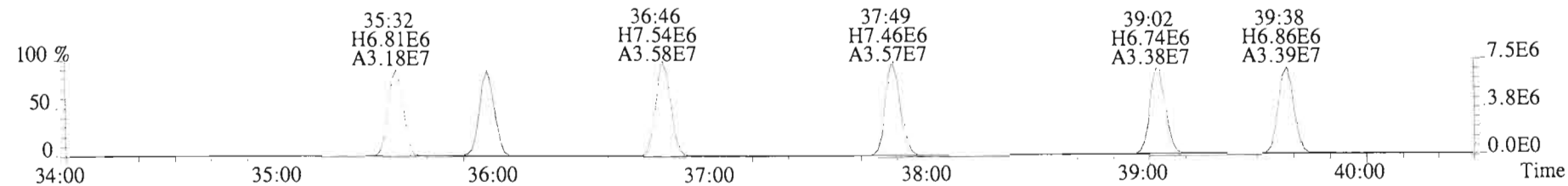
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2608.0,0.00%,F,F)



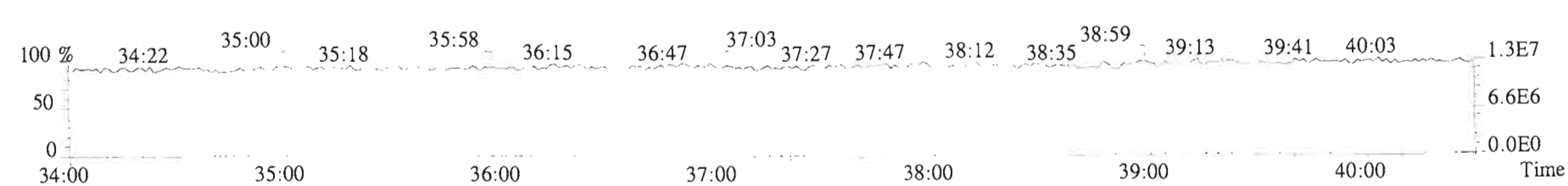
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6992.0,0.00%,F,F)



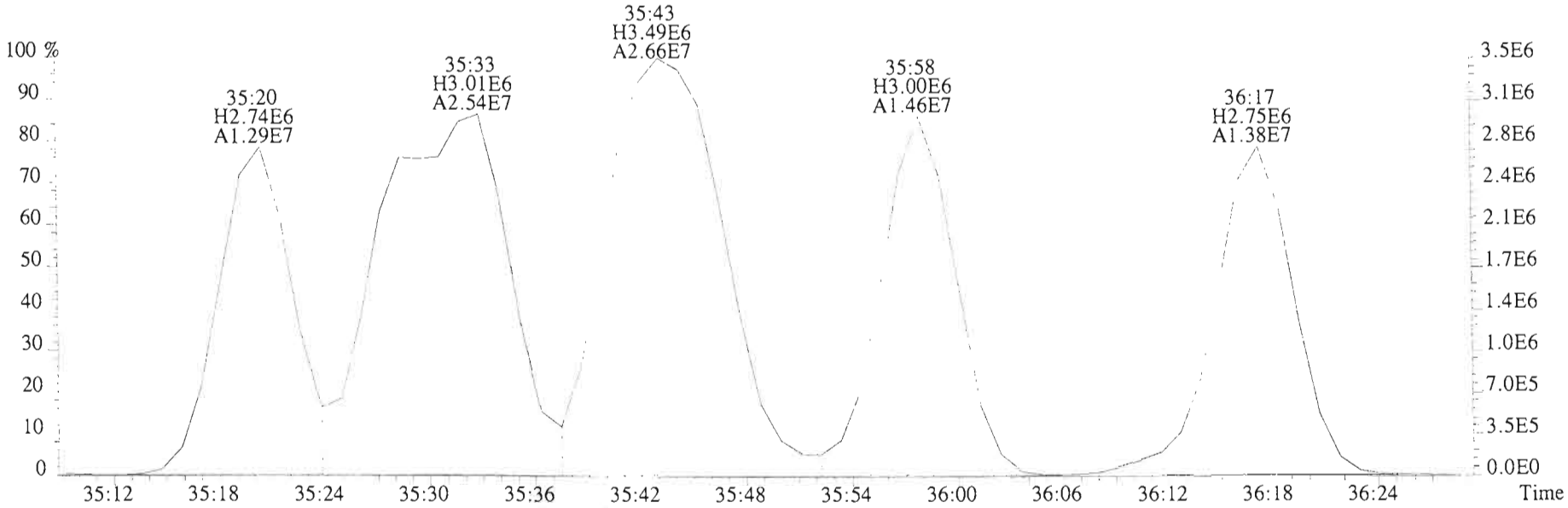
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4884.0,0.00%,F,F)



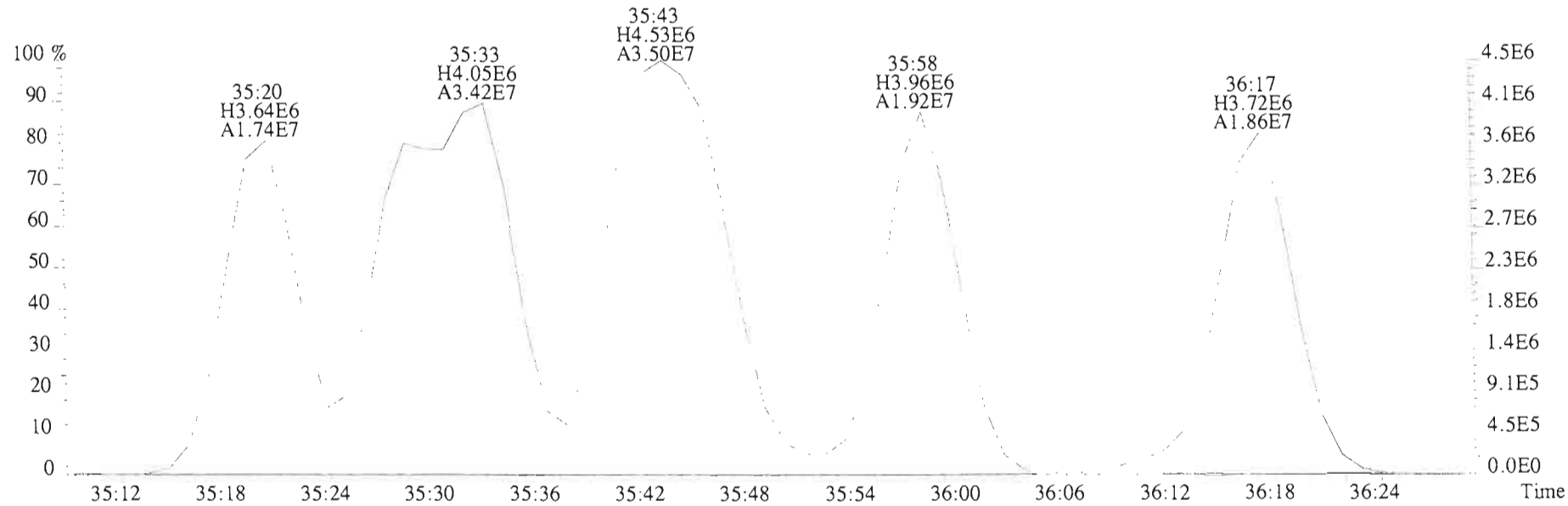
330.9792 S:2 F:3



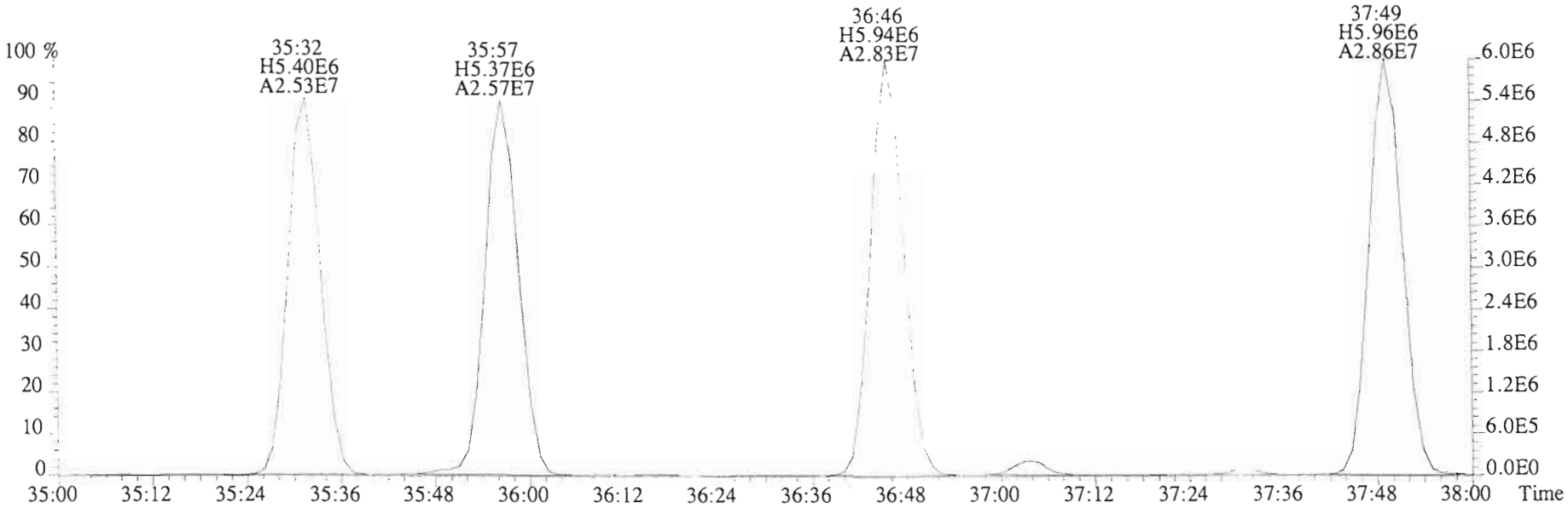
File:150127E1 #1-763 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2500.0,0.00%,F,F)



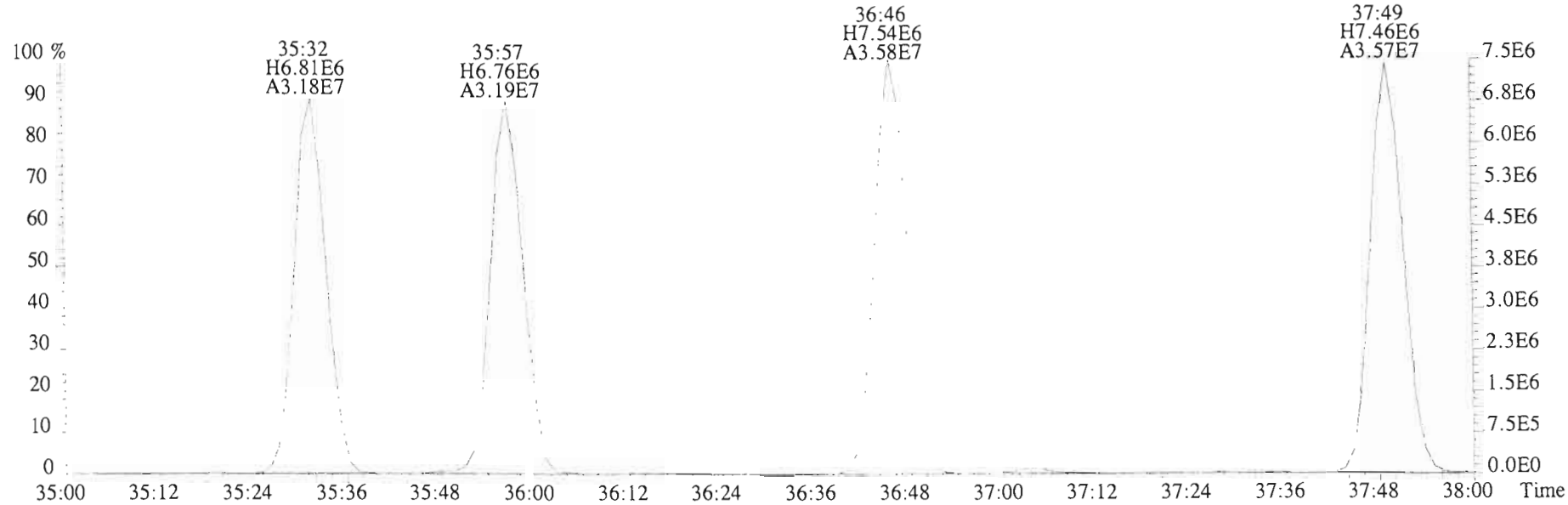
291.9194 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2608.0,0.00%,F,F)



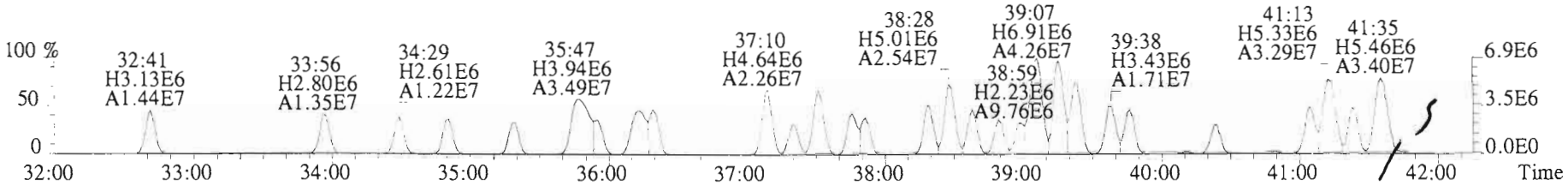
File:150127E1 #1-763 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6992.0,0.00%,F,F)



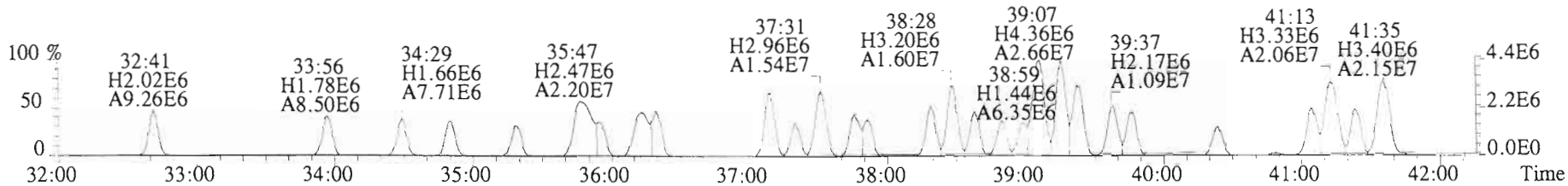
303.9597 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4884.0,0.00%,F,F)



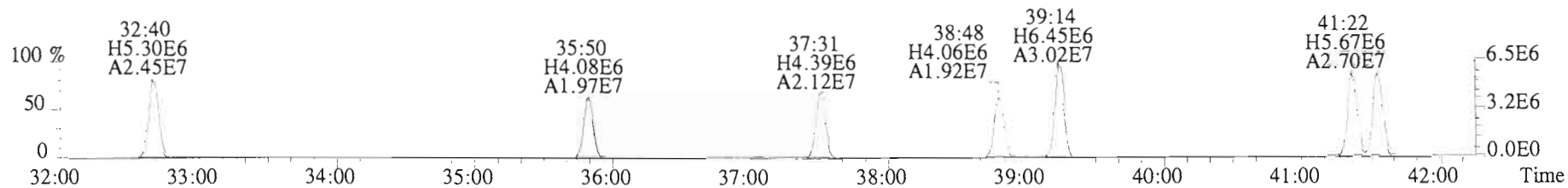
File:150127E1 #1-763 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1212.0,0.00%,F,F)



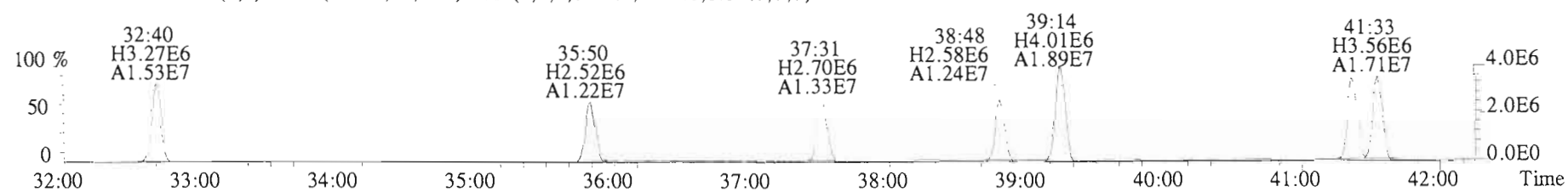
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1472.0,0.00%,F,F)



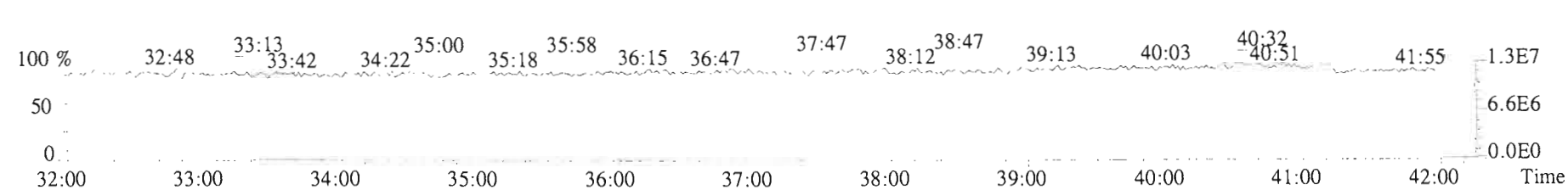
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2792.0,0.00%,F,F)



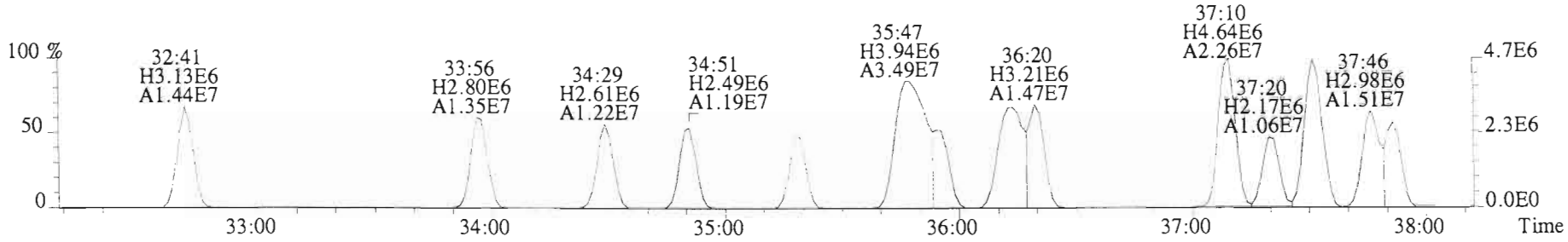
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2396.0,0.00%,F,F)



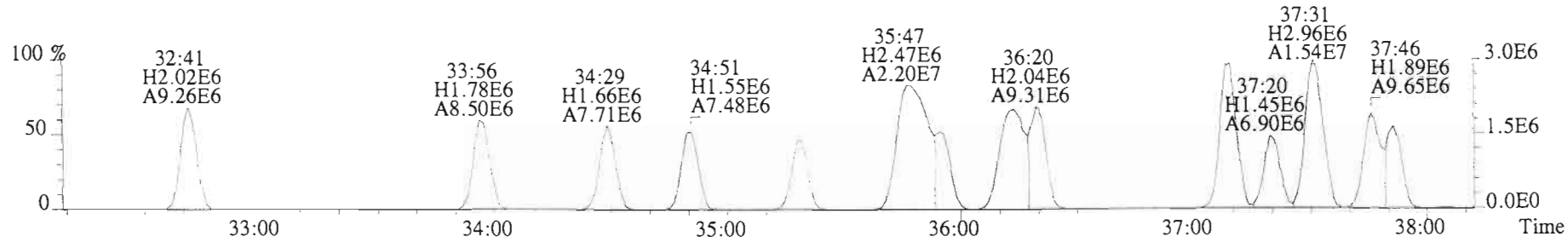
330.9792 S:2 F:3



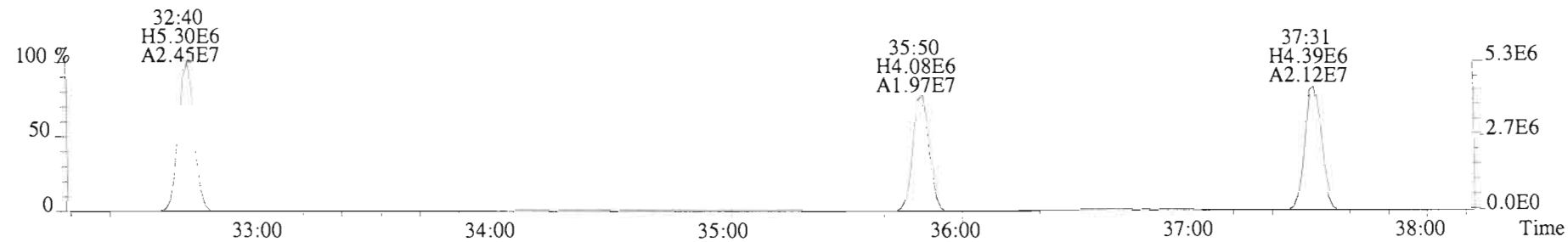
File:150127E1 #1-763 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1212.0,0.00%,F,F)



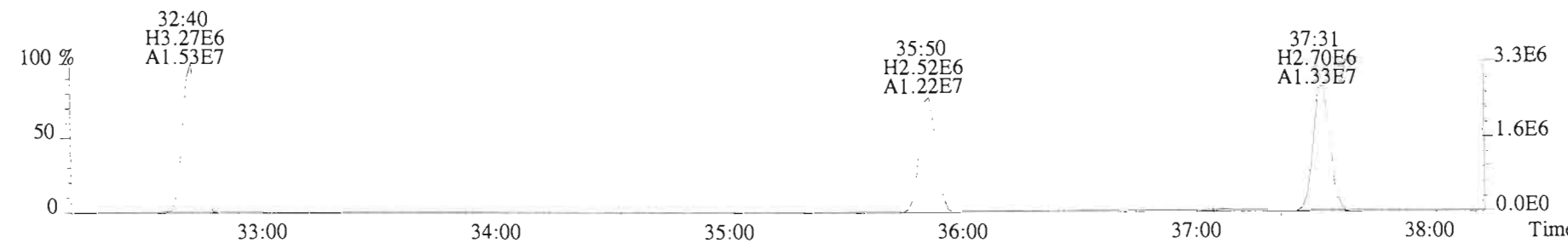
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1472.0,0.00%,F,F)



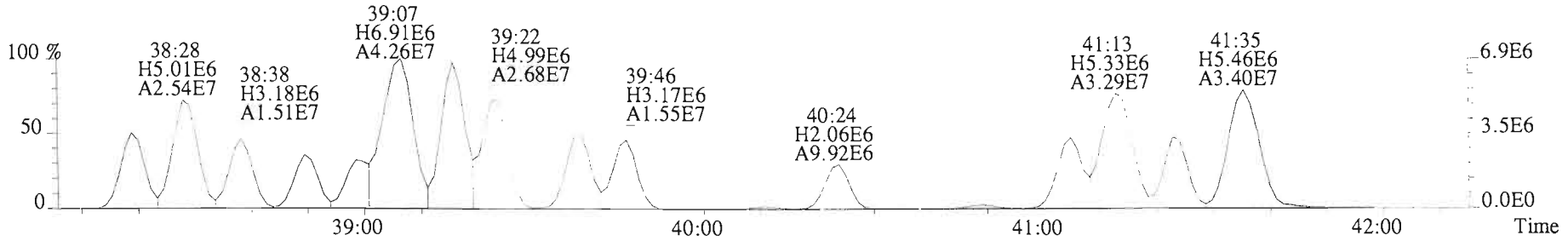
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2792.0,0.00%,F,F)



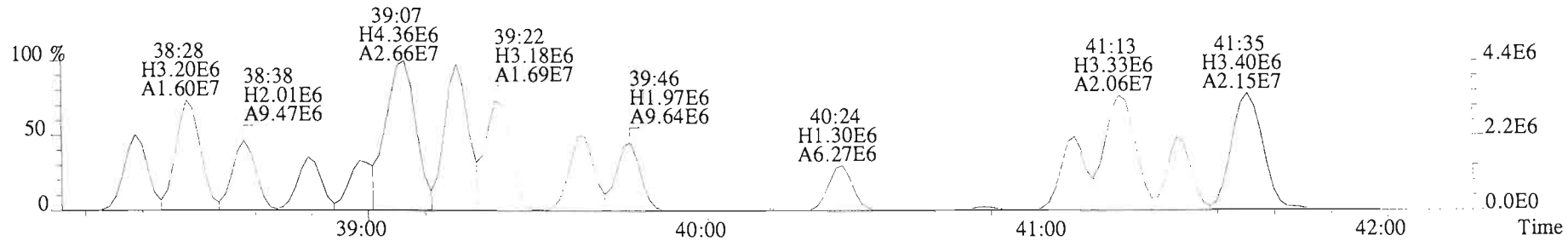
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2396.0,0.00%,F,F)



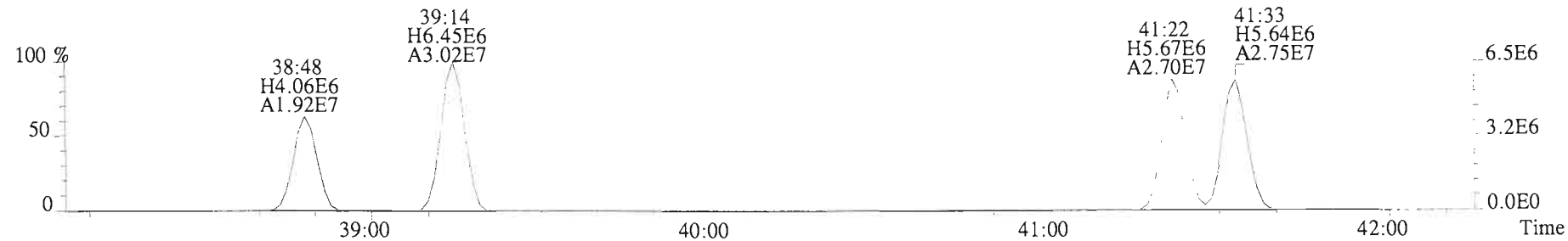
File:150127E1 #1-763 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1212.0,0.00%,F,F)



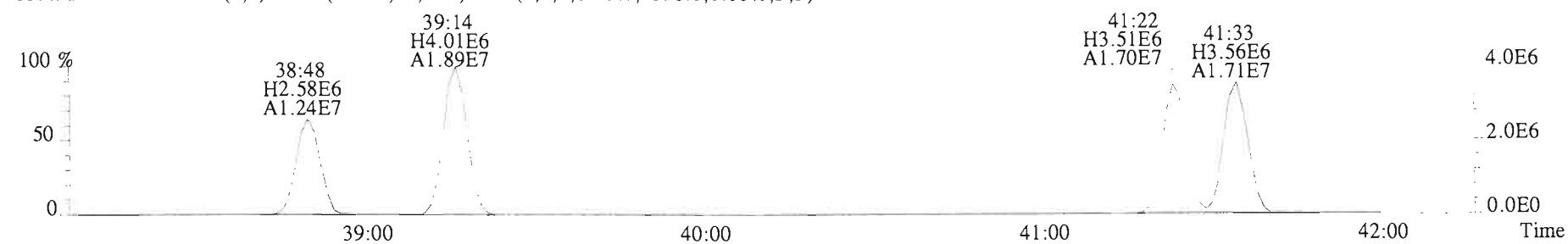
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1472.0,0.00%,F,F)



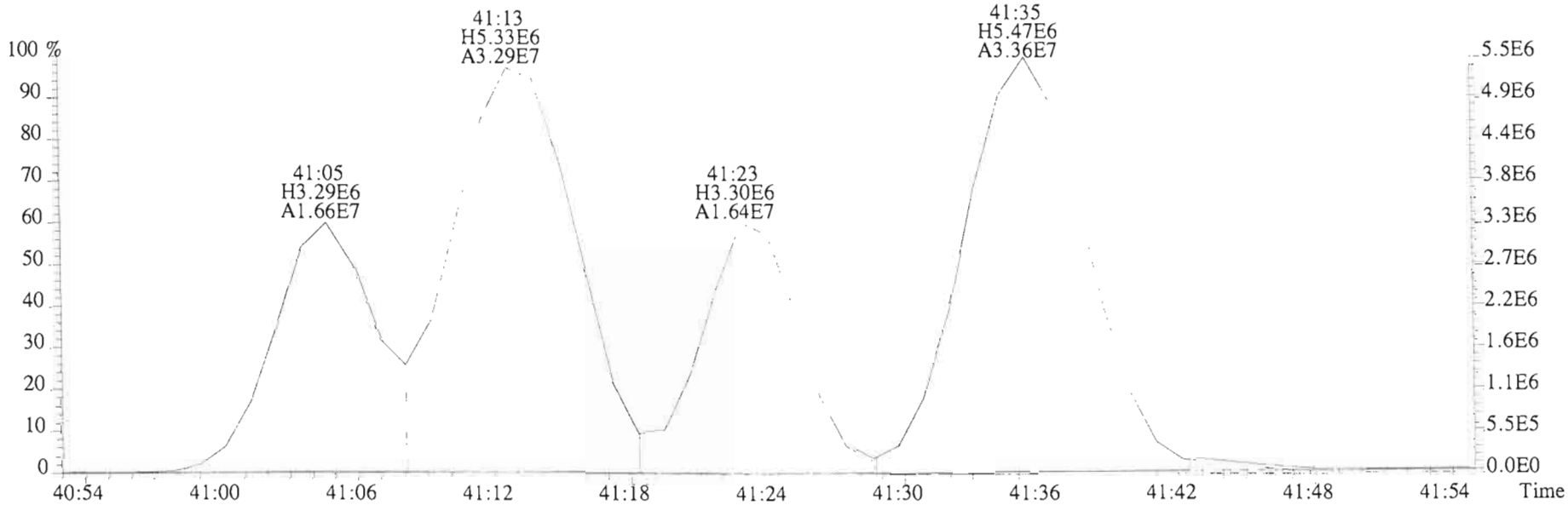
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2792.0,0.00%,F,F)



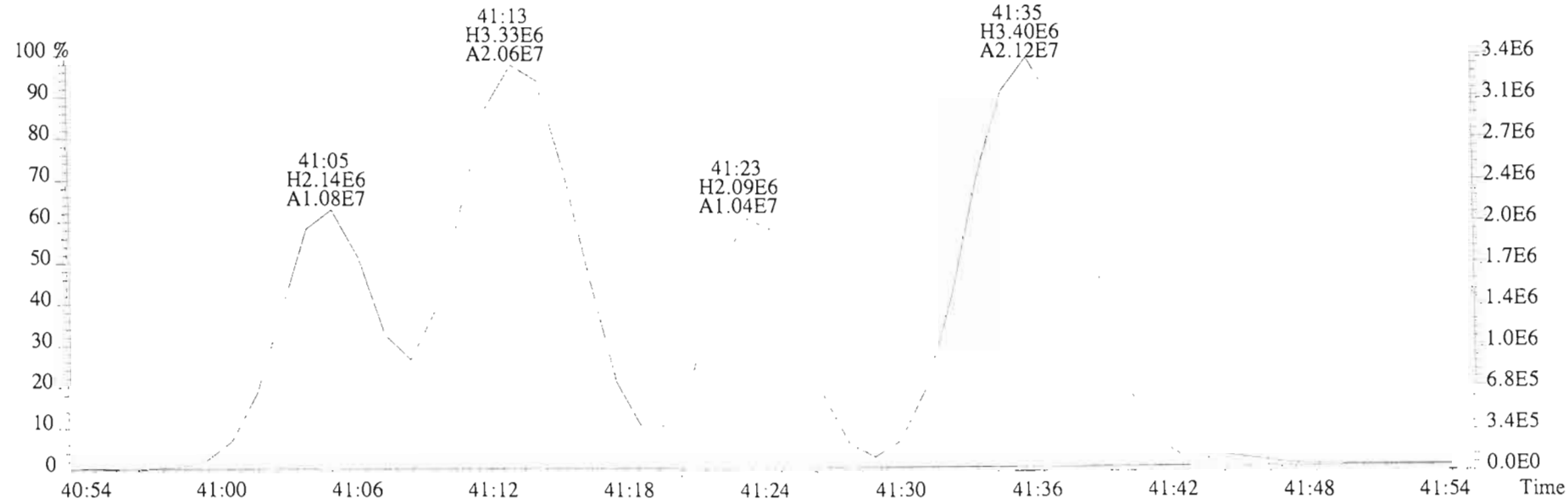
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2396.0,0.00%,F,F)



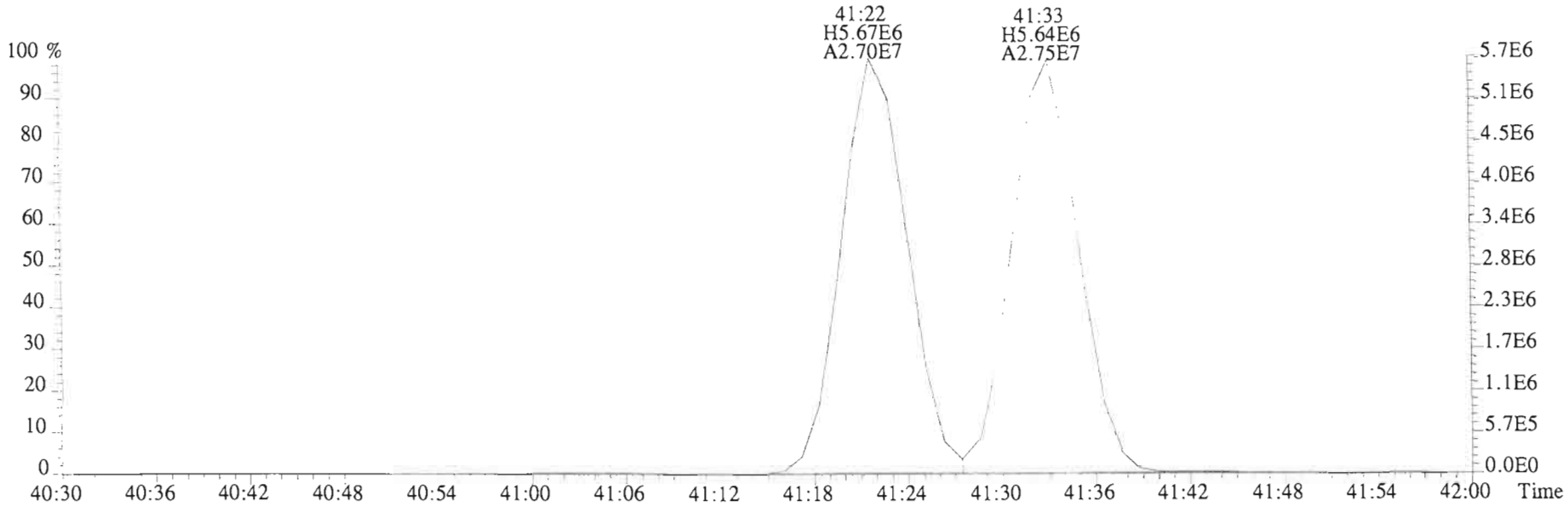
File:150127E1 #1-763 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1212.0,0.00%,F,F)



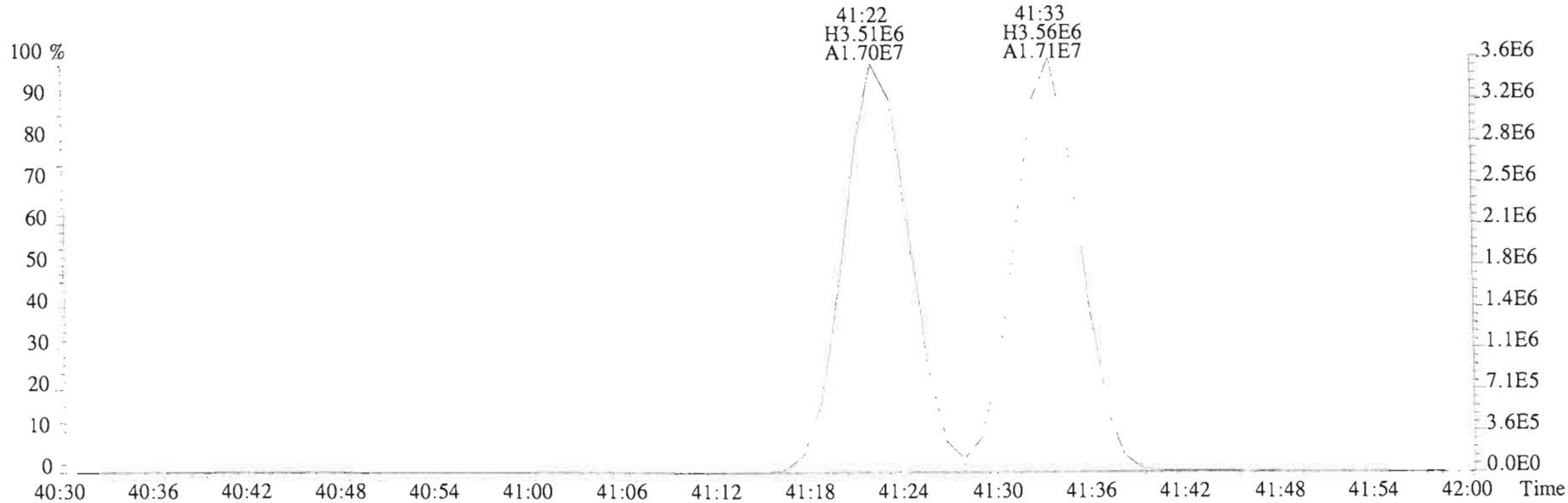
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1472.0,0.00%,F,F)



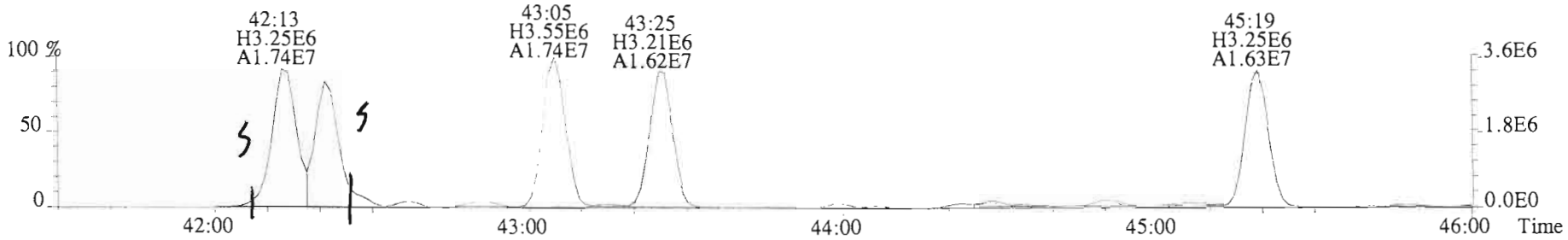
File:150127E1 #1-763 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2792.0,0.00%,F,F)



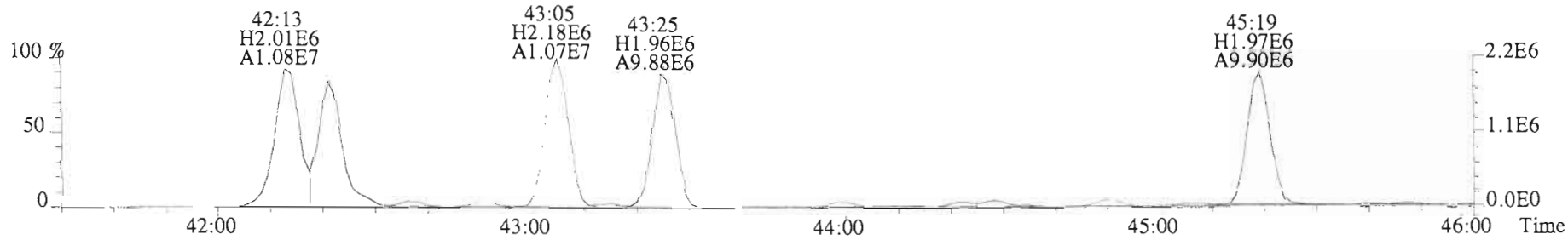
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2396.0,0.00%,F,F)



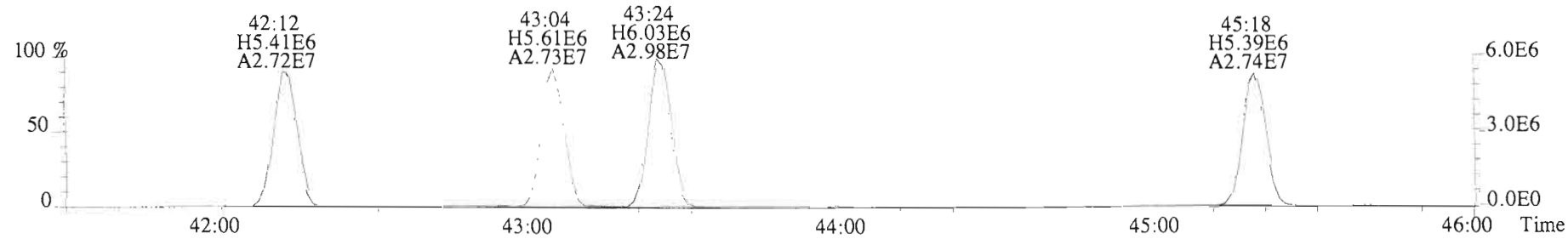
File:150127E1 #1-563 Acq:27-JAN-2015 11:43:13 GC El+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4264.0,0.00%,F,F)



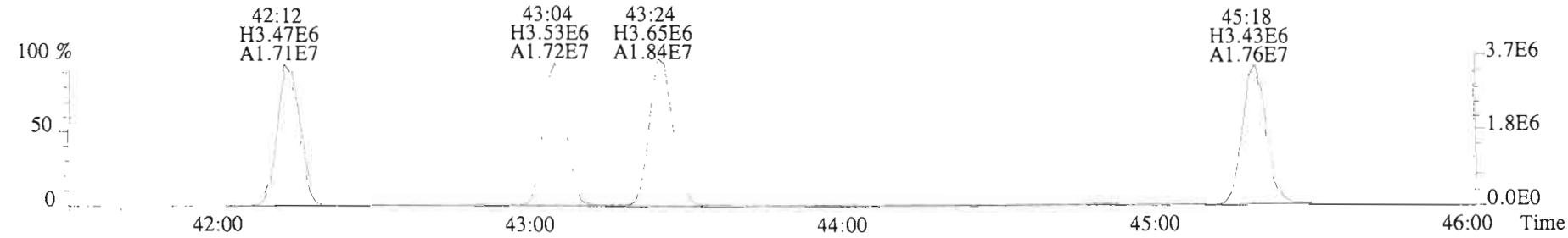
327.8775 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3328.0,0.00%,F,F)



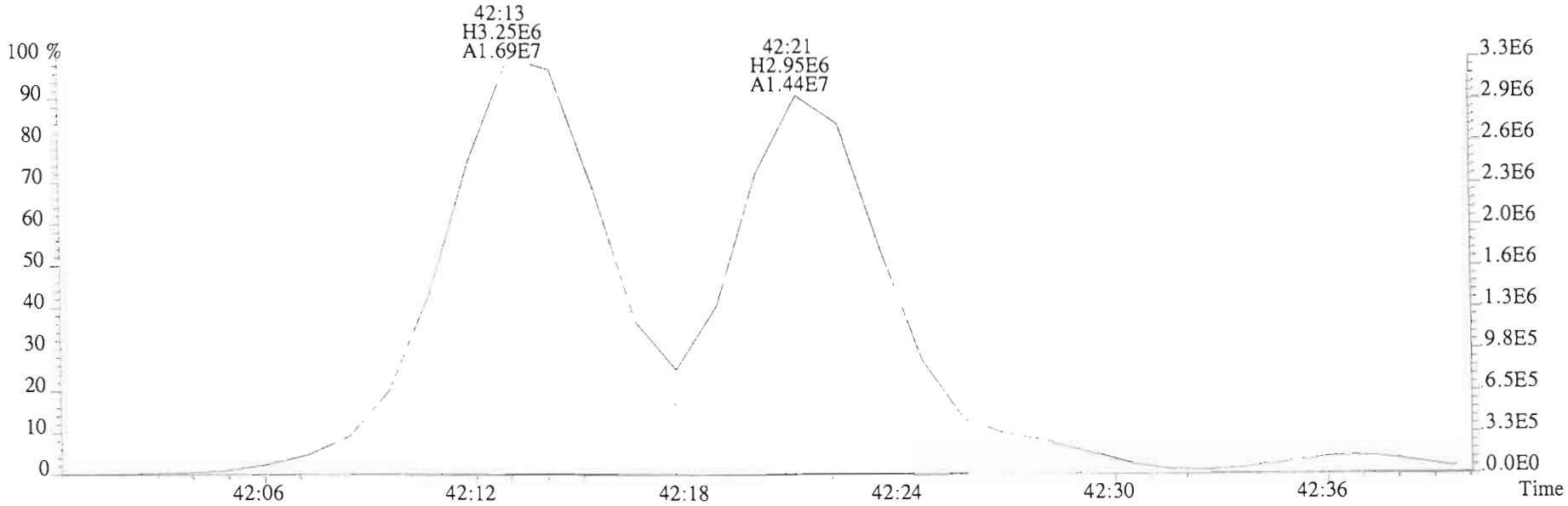
337.9207 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4020.0,0.00%,F,F)



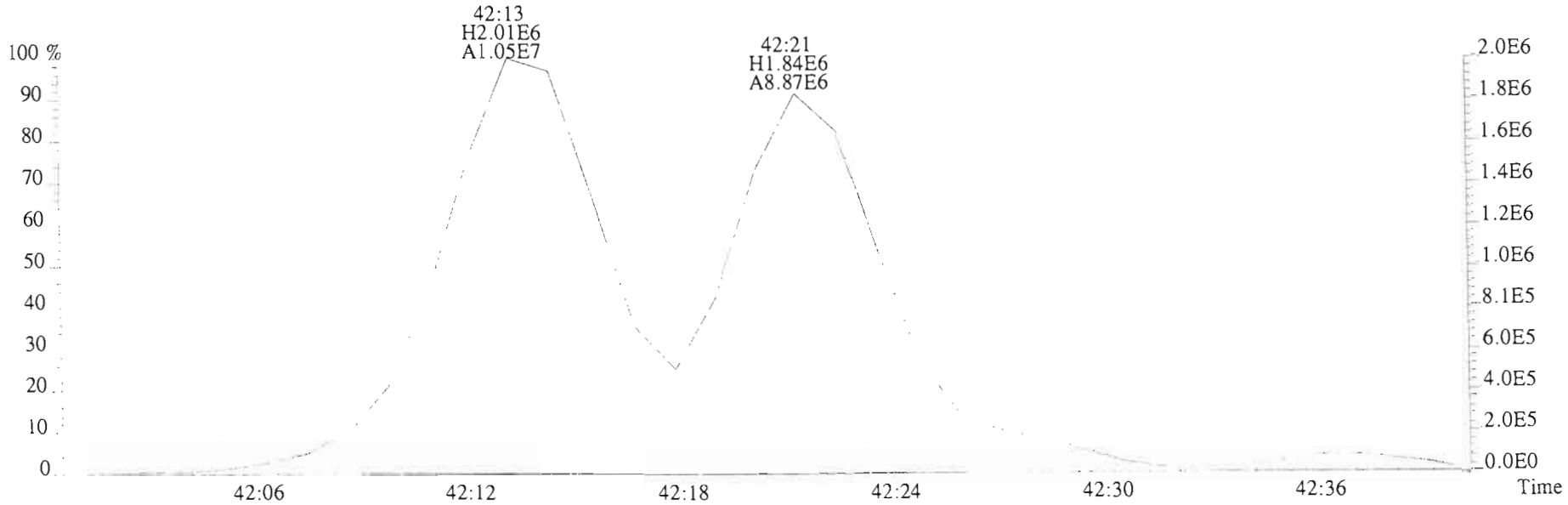
339.9177 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3612.0,0.00%,F,F)



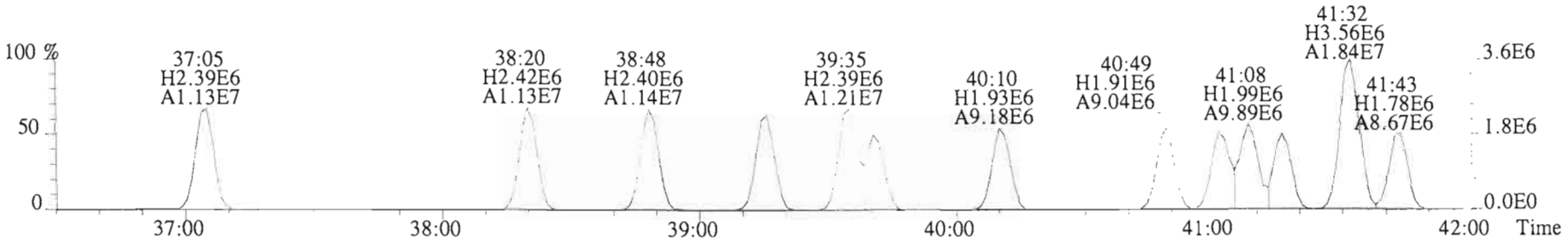
File:150127E1 #1-563 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4264.0,0.00%,F,F)



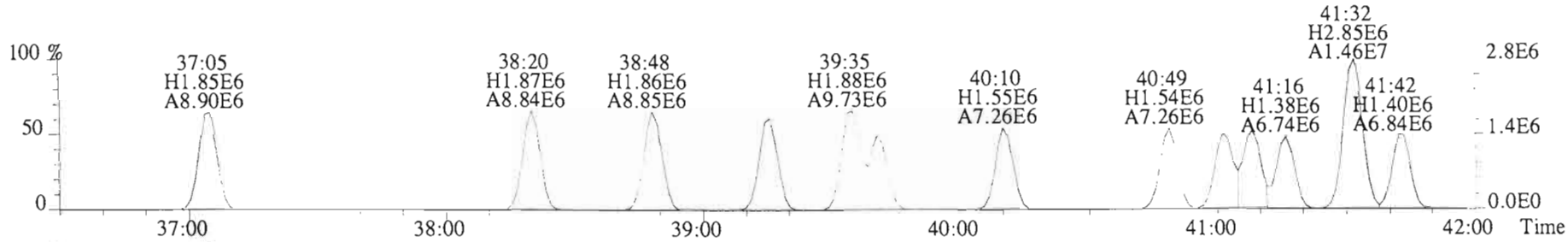
327.8775 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3328.0,0.00%,F,F)



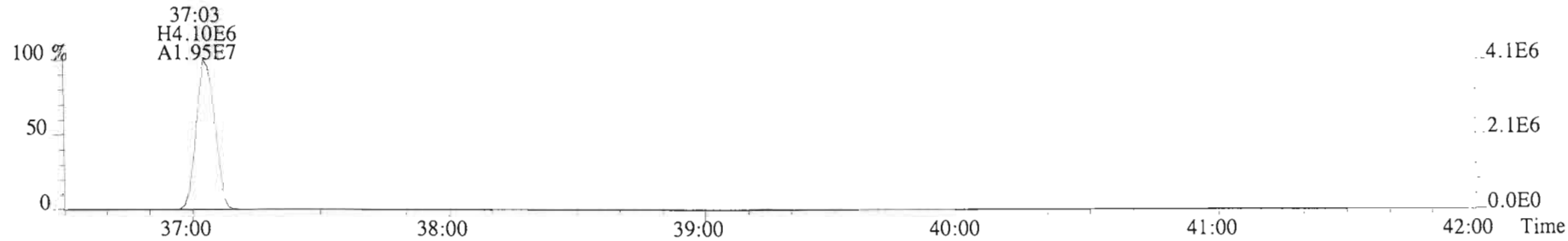
File:150127E1 #1-763 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2084.0,0.00%,F,F)



361.8385 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1732.0,0.00%,F,F)

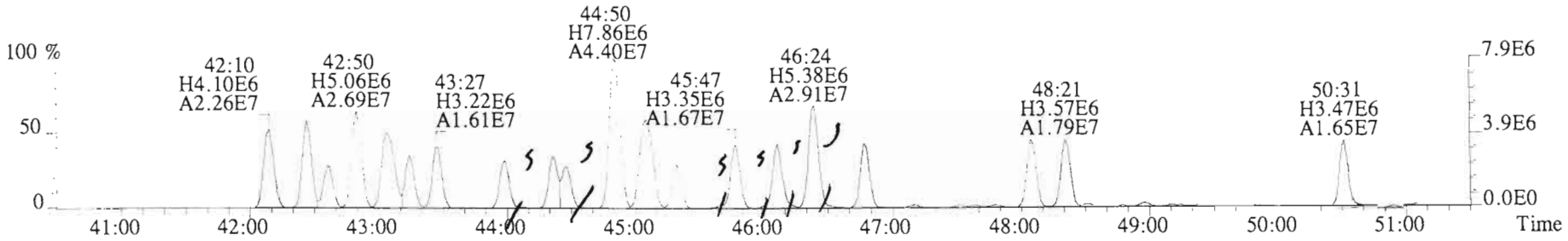


371.8817 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2160.0,0.00%,F,F)

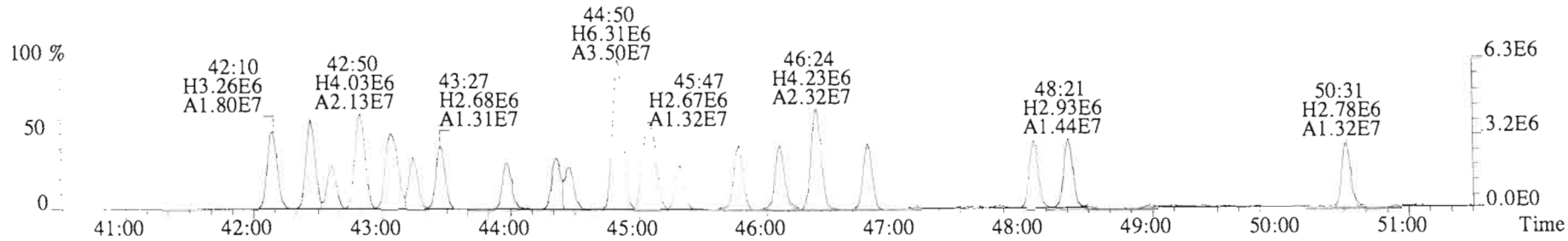


373.8788 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2040.0,0.00%,F,F)

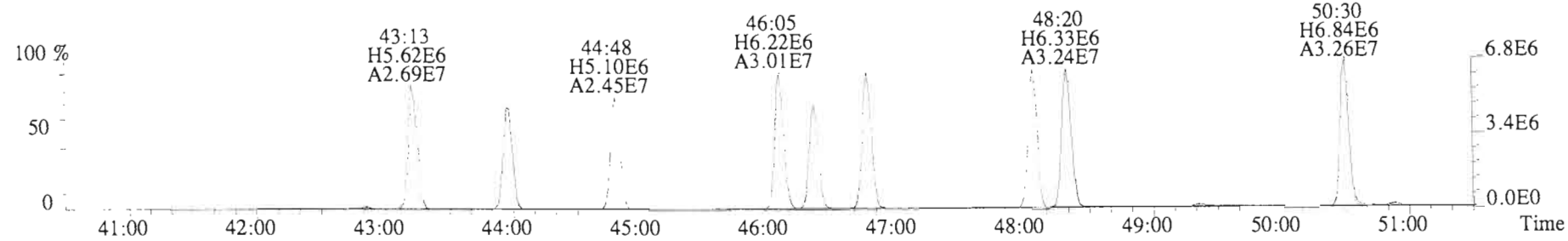
File:150127E1 #1-563 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6940.0,0.00%,F,F)



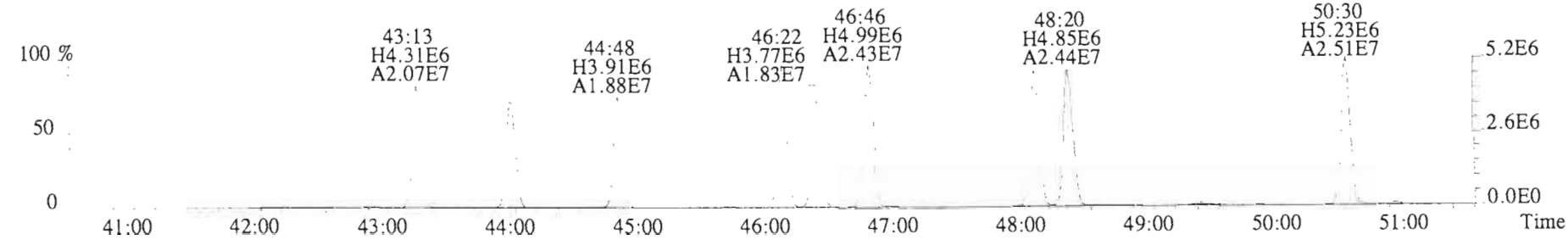
361.8385 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12812.0,0.00%,F,F)



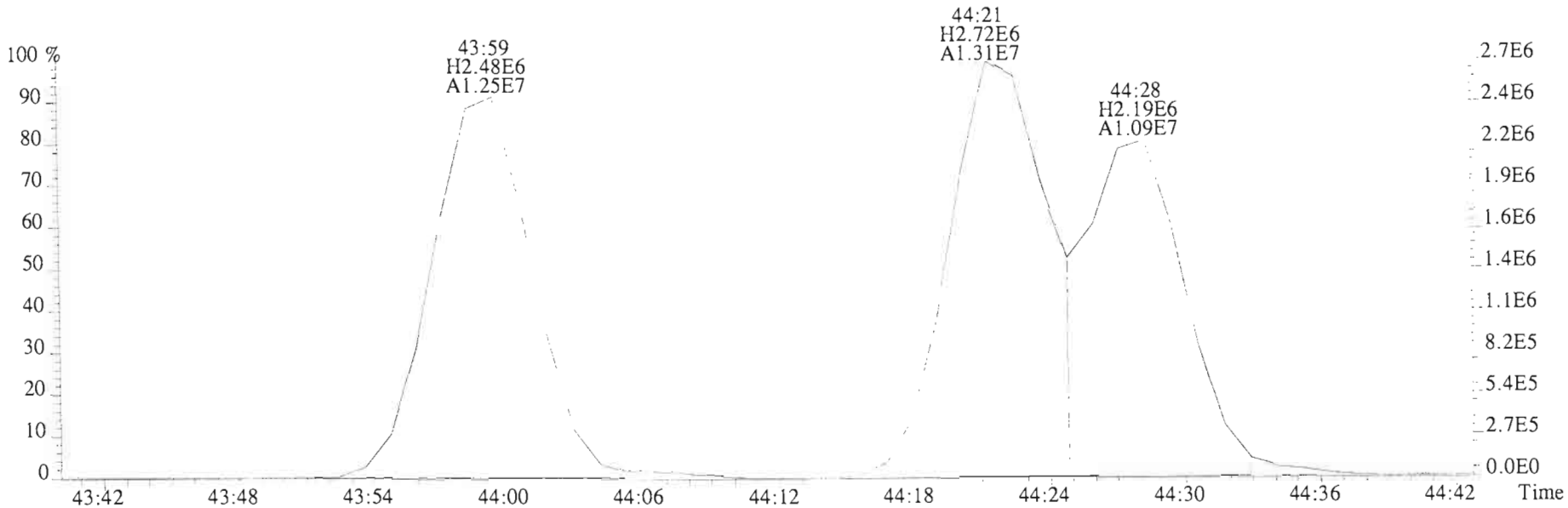
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5120.0,0.00%,F,F)



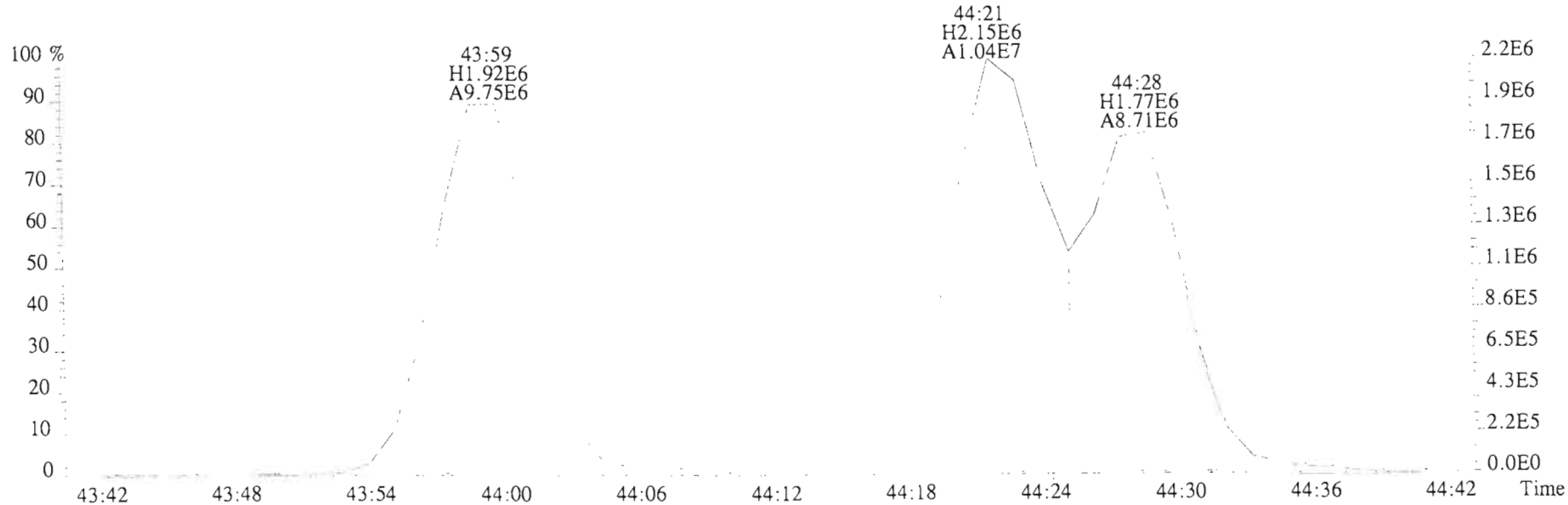
373.8788 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5736.0,0.00%,F,F)



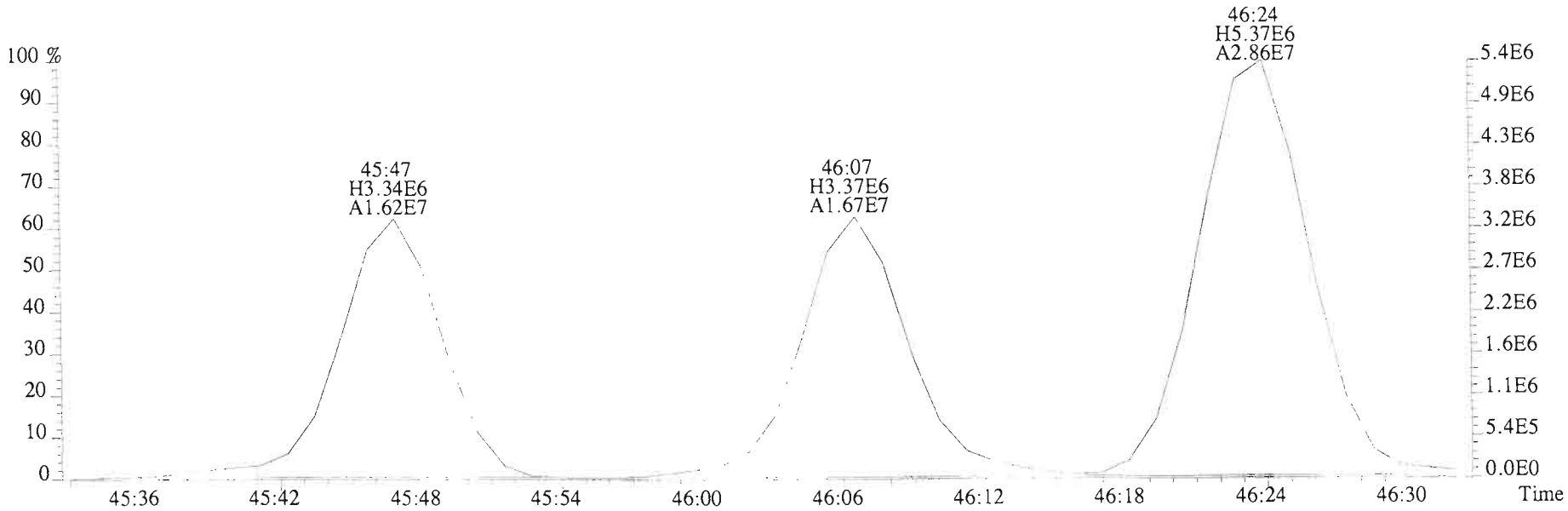
File:150127E1 #1-563 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6940.0,0.00%,F,F)



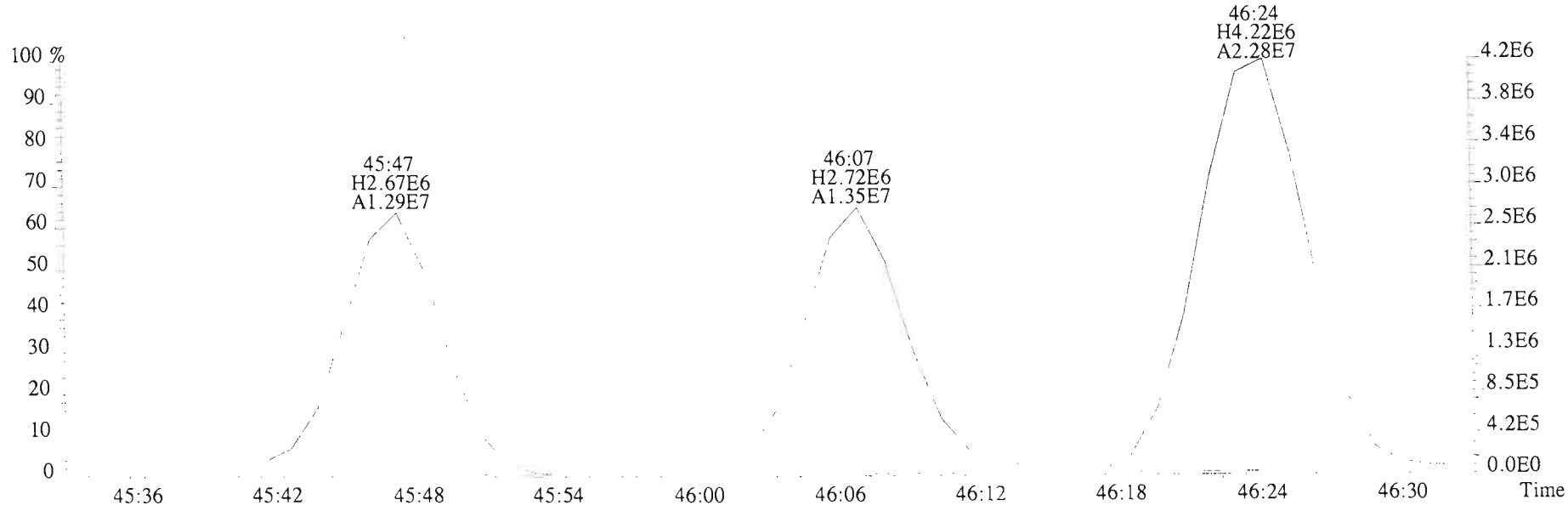
361.8385 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12812.0,0.00%,F,F)



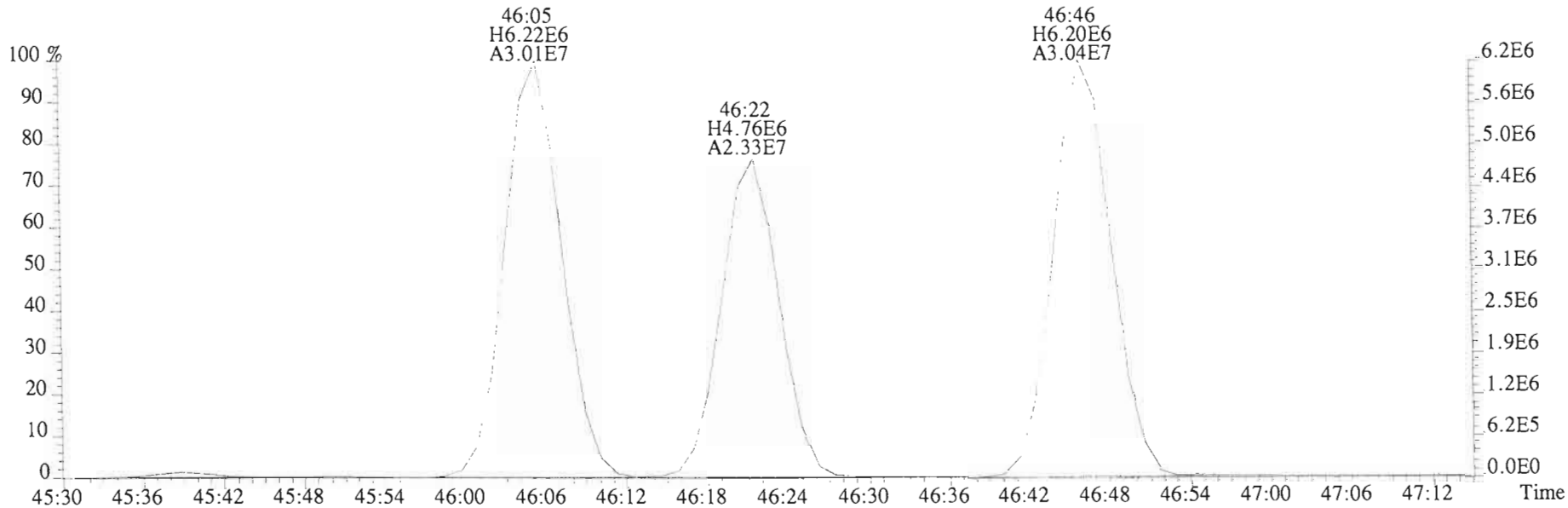
File:150127E1 #1-563 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6940.0,0.00%,F,F)



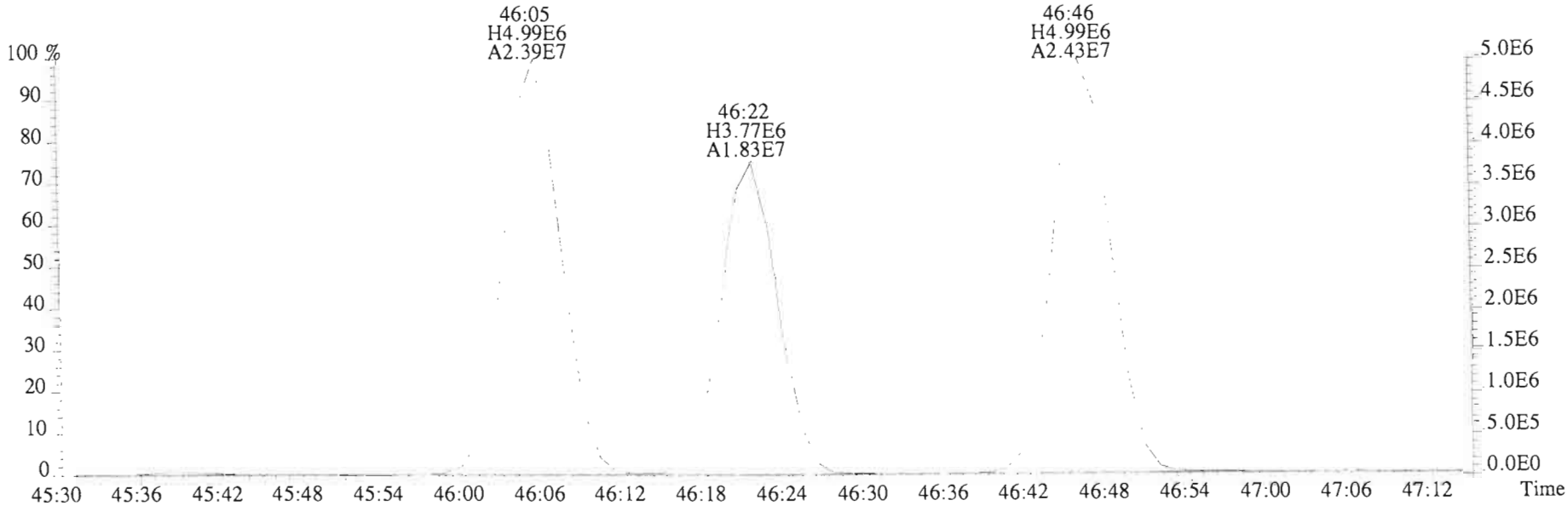
361.8385 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,12812.0,0.00%,F,F)



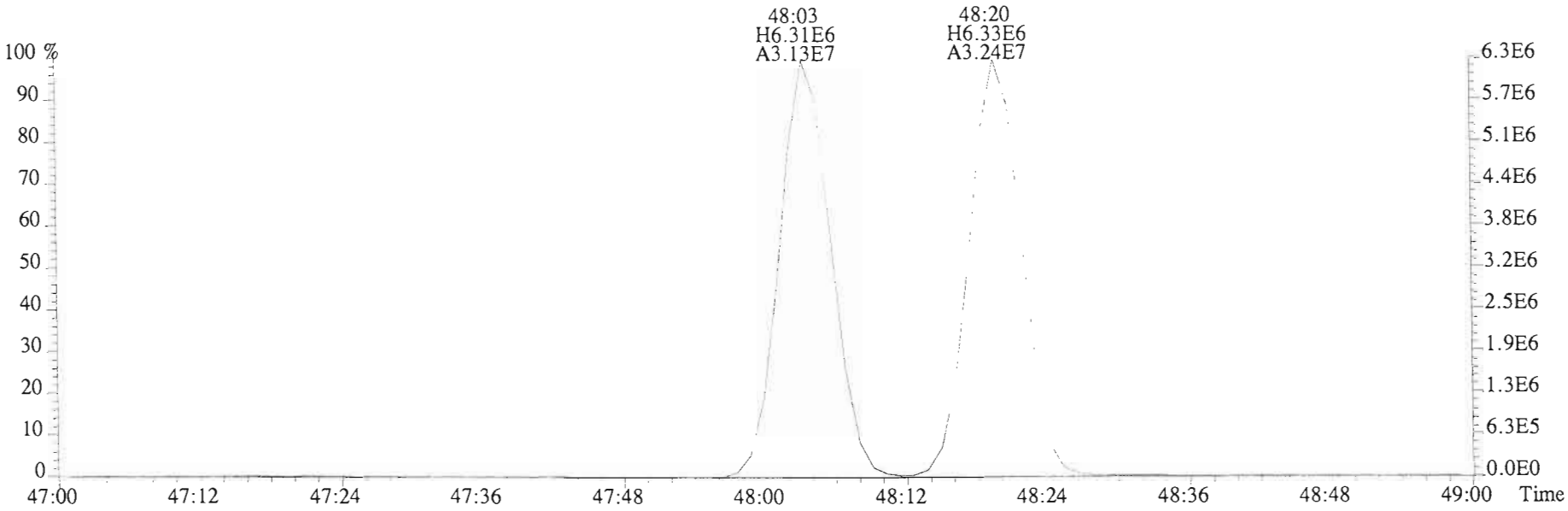
File:150127E1 #1-563 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5120.0,0.00%,F,F)



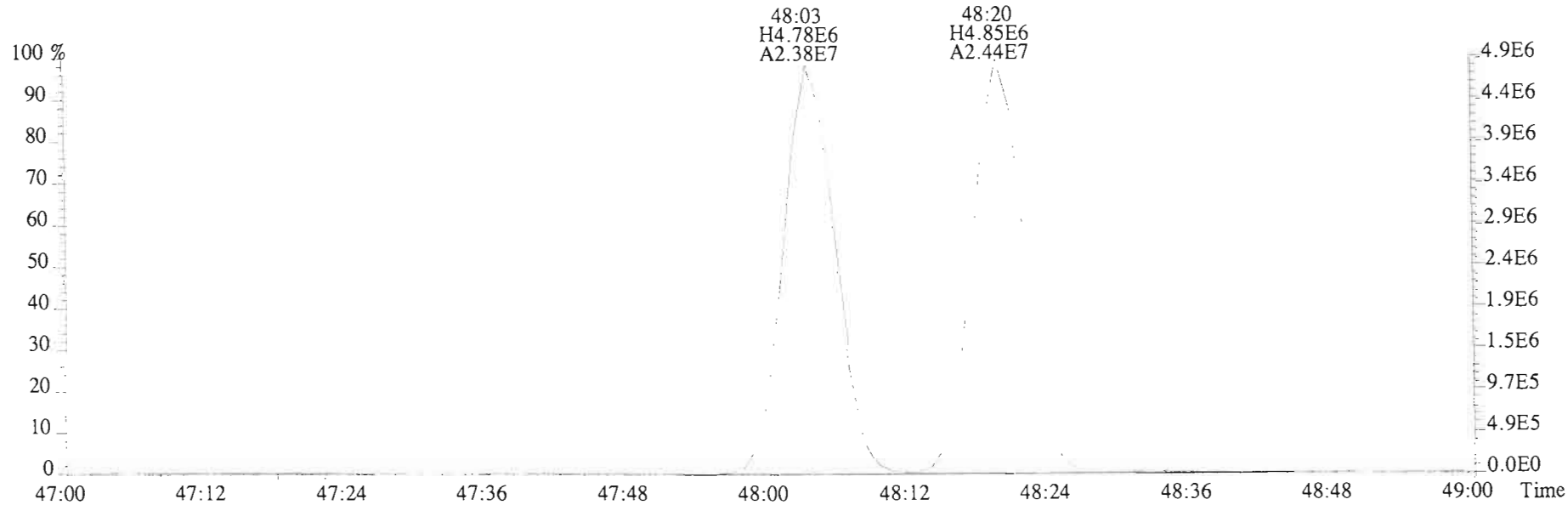
373.8788 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5736.0,0.00%,F,F)



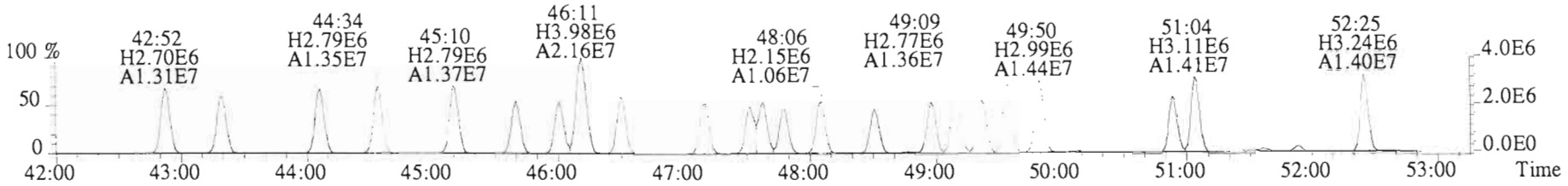
File:150127E1 #1-563 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5120.0,0.00%,F,F)



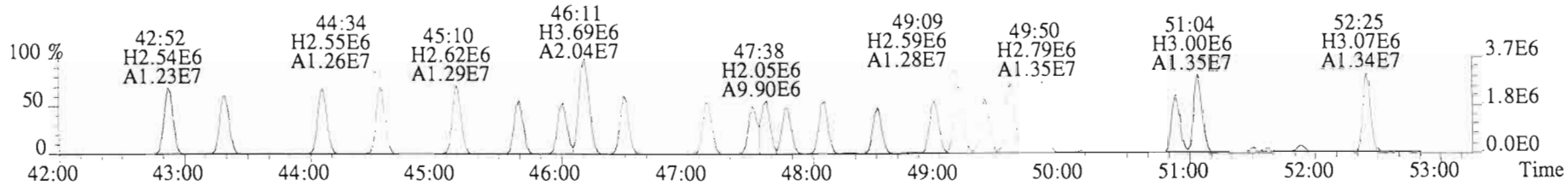
373.8788 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5736.0,0.00%,F,F)



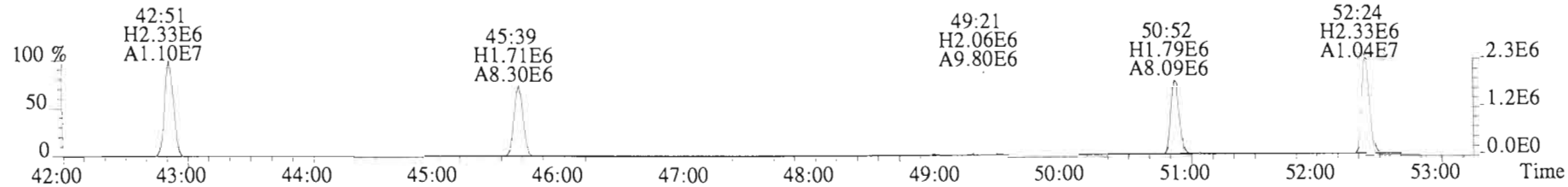
File:150127E1 #1-563 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,9172.0,0.00%,F,F)



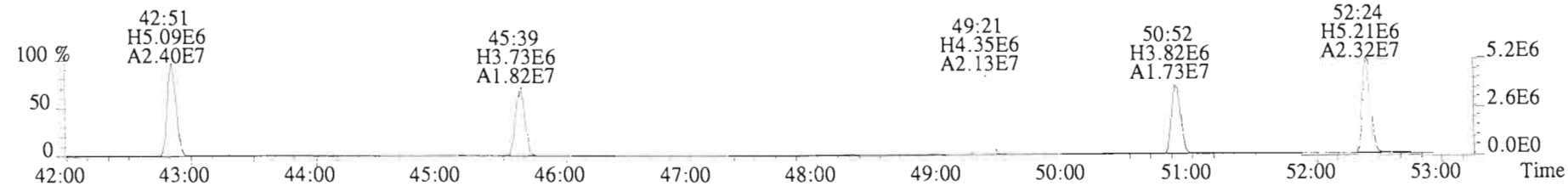
395.7995 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3172.0,0.00%,F,F)



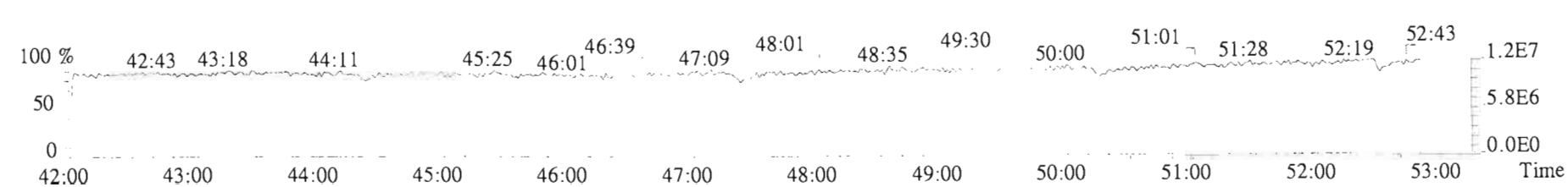
403.8457 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2772.0,0.00%,F,F)



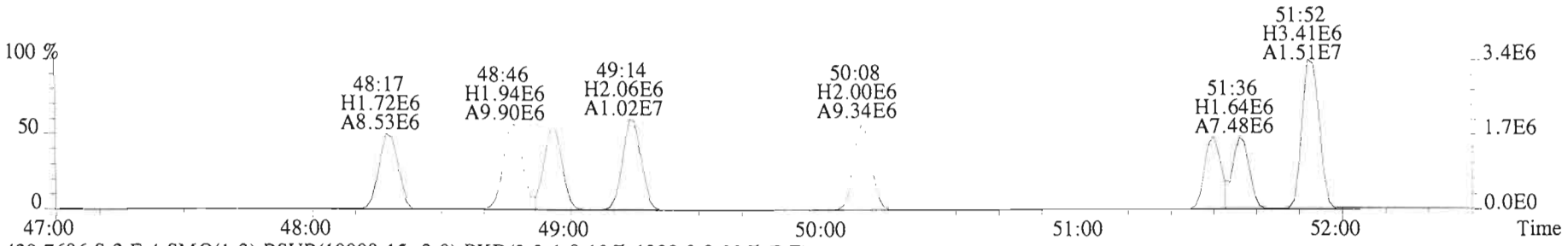
405.8428 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5616.0,0.00%,F,F)



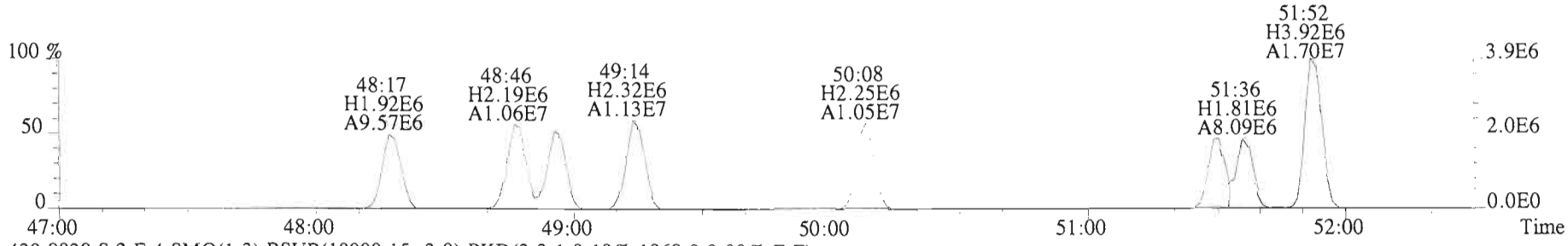
380.9760 S:2 F:4



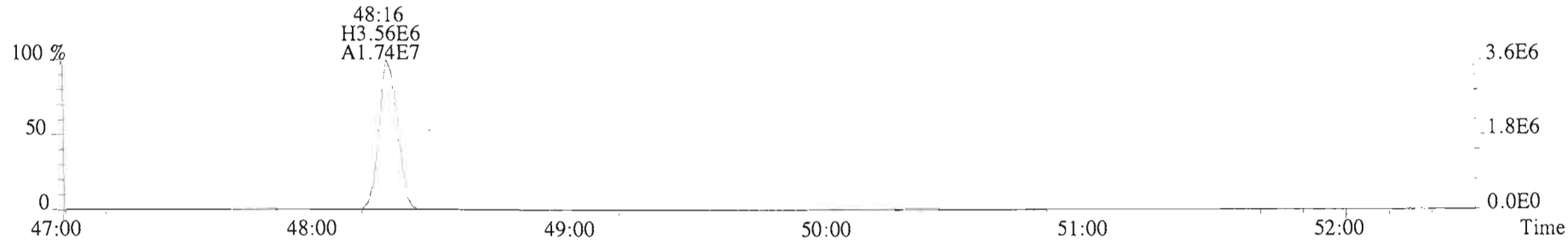
File:150127E1 #1-563 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1232.0,0.00%,F,F)



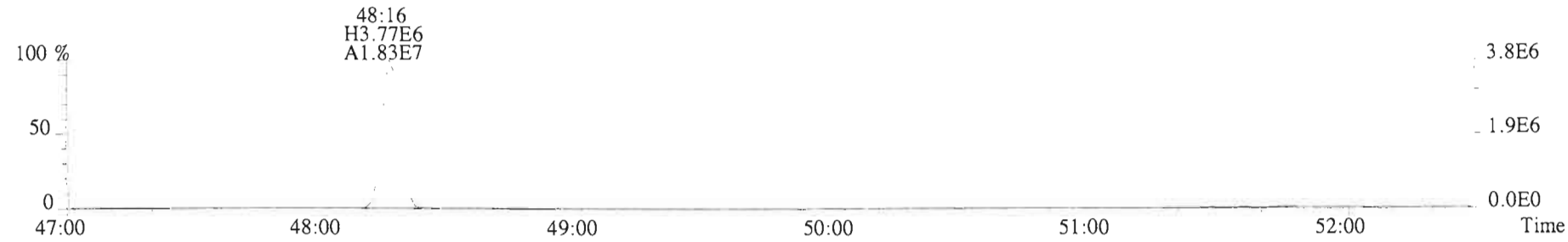
429.7606 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1328.0,0.00%,F,F)



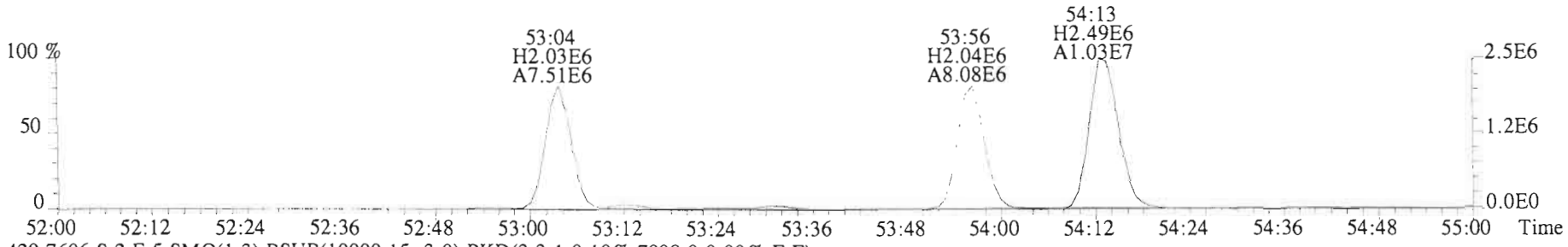
439.8038 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1968.0,0.00%,F,F)



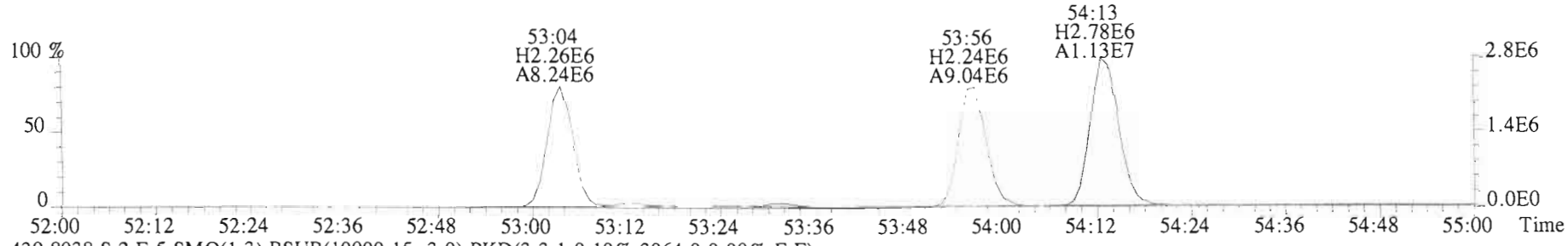
441.8008 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1976.0,0.00%,F,F)



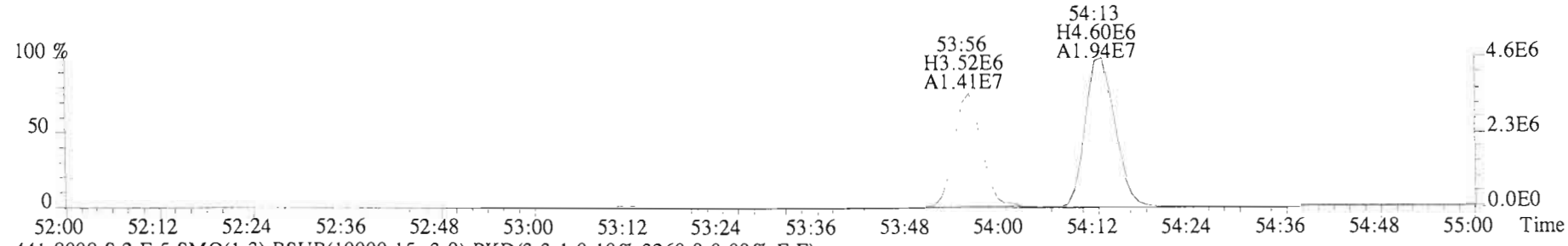
File:150127E1 #1-413 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
427.7635 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2108.0,0.00%,F,F)



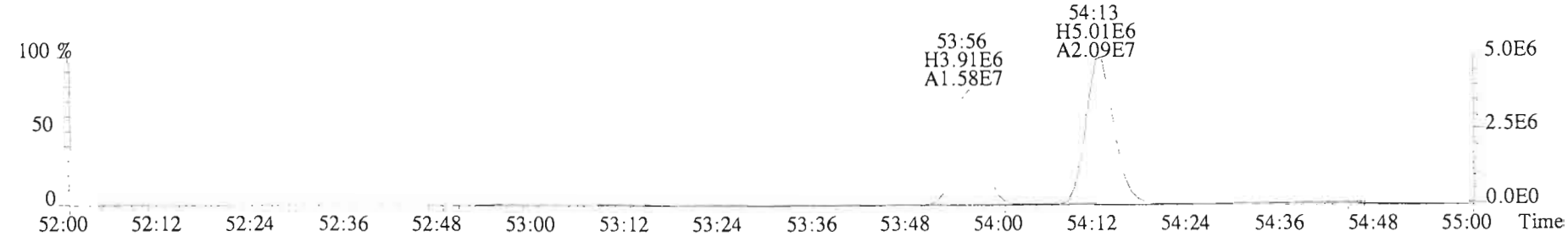
429.7606 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7908.0,0.00%,F,F)



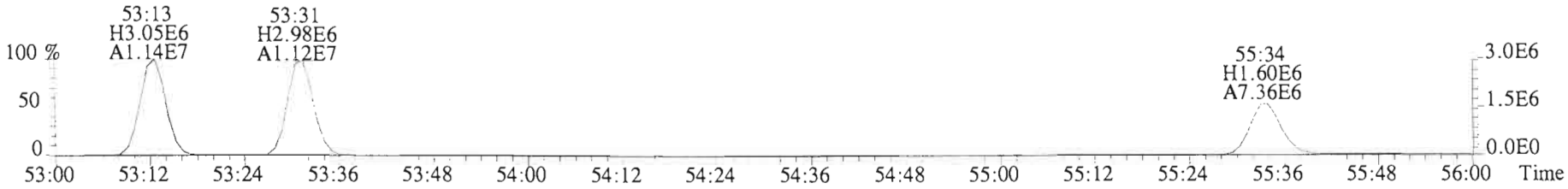
439.8038 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3064.0,0.00%,F,F)



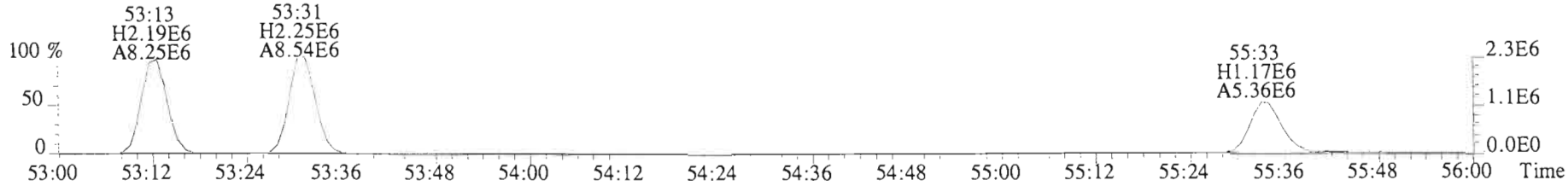
441.8008 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3260.0,0.00%,F,F)



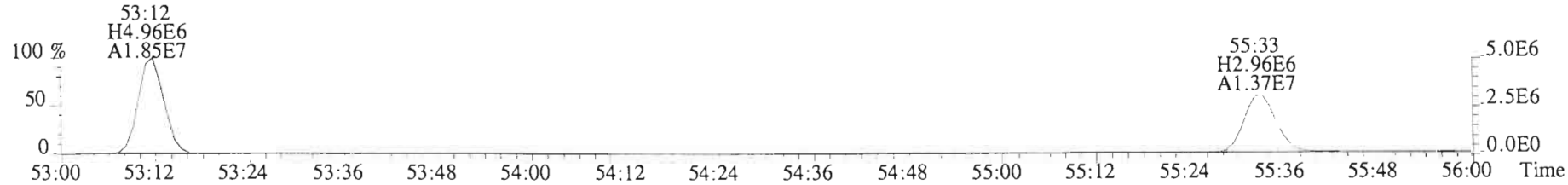
File:150127E1 #1-413 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
463.7216 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5248.0,0.00%,F,F)



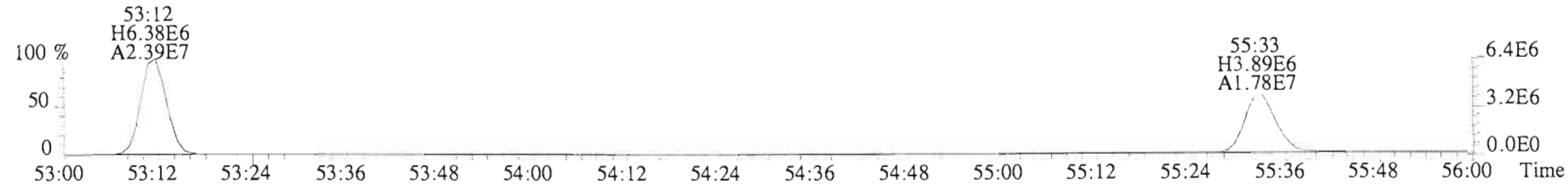
465.7186 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4000.0,0.00%,F,F)



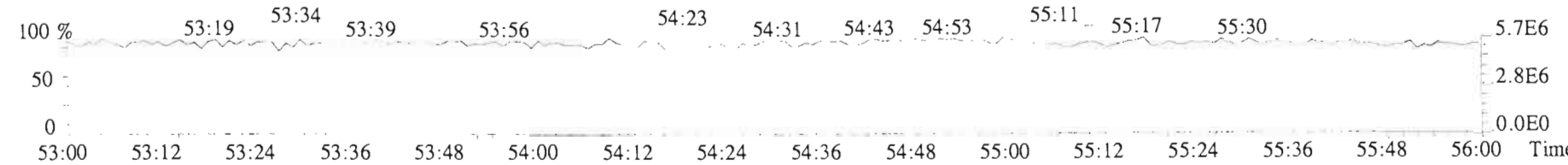
473.7648 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7500.0,0.00%,F,F)



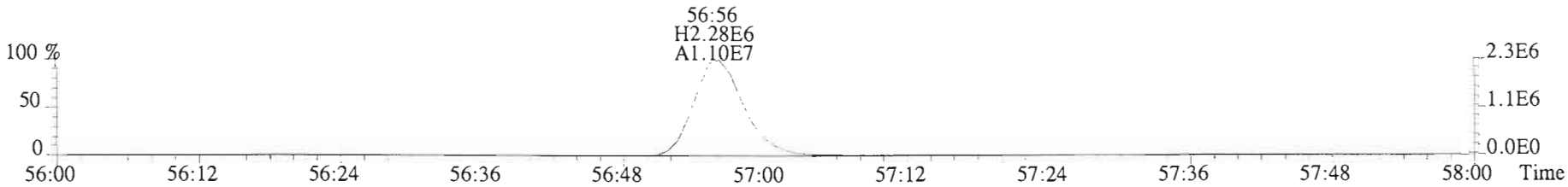
475.7619 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10388.0,0.00%,F,F)



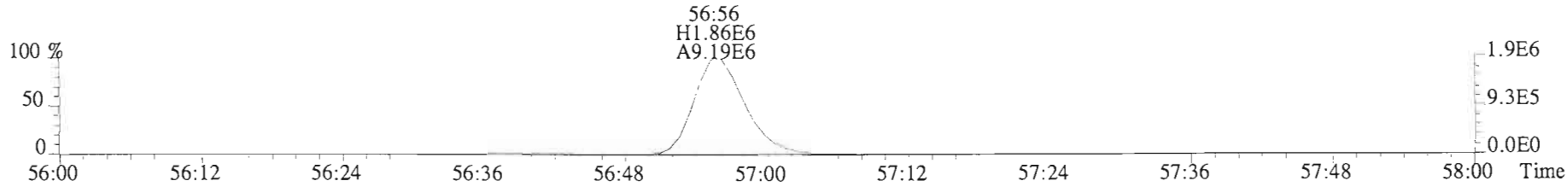
492.9697 S:2 F:5



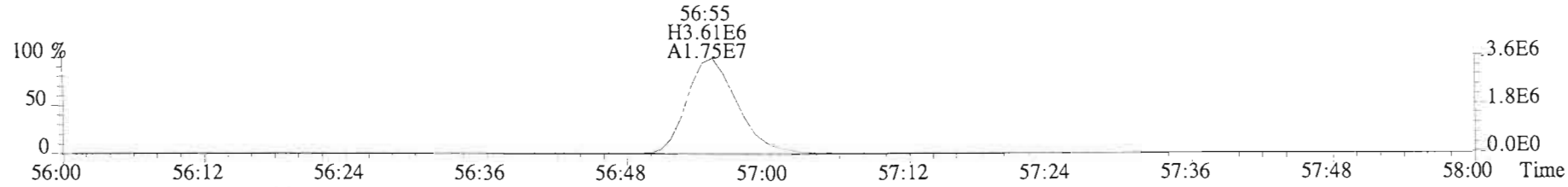
File:150127E1 #1-413 Acq:27-JAN-2015 11:43:13 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5A0099-BS1 OPR 1 Exp:PCB_ZB1
497.6826 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1676.0,0.00%,F,F)



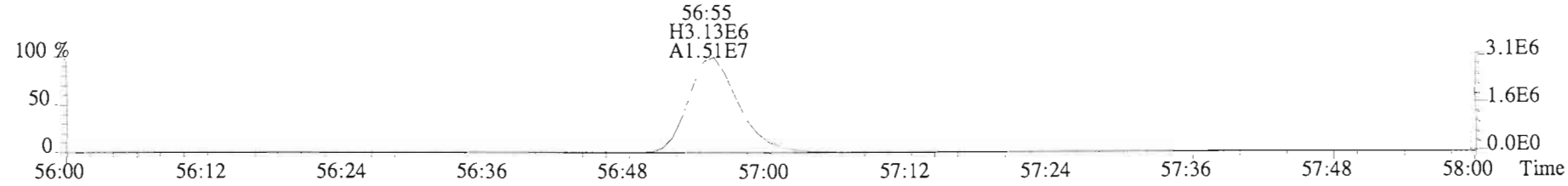
499.6797 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1632.0,0.00%,F,F)



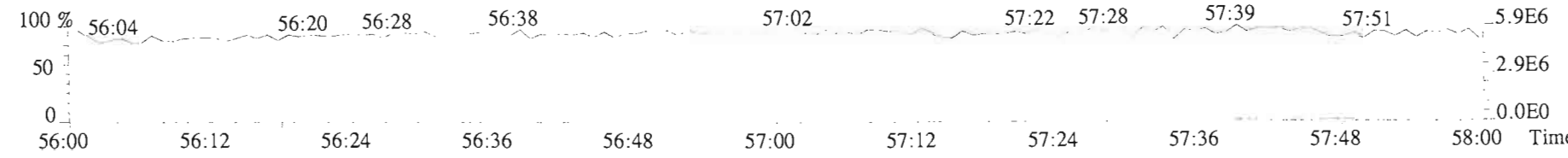
509.7229 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1556.0,0.00%,F,F)



511.7199 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1548.0,0.00%,F,F)



492.9697 S:2 F:5



Client ID: AS-CB-UNR-20150120-W Filename: 150127E1 S:8 Acq:27-JAN-15 18:10:58 ConCal: ST150127E1-1

Lab ID: 1500108-04 GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.001 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	5.02e+05	3.26	y 16:11	1.33	18.4		*	2.5	*	1.001	0.997	1.007
Mono	PCB-2	2.00e+05	3.16	y 18:35	1.30	7.37		*	2.5	*	0.988	0.983	0.993
Mono	PCB-3	4.28e+05	3.41	y 18:49	1.30	15.8		*	2.5	*	1.001	0.996	1.006
Di	PCB-4/10	1.25e+06	1.58	y 20:09	1.67	52.1		*	2.5	*	1.001	0.997	1.007
Di	PCB-7/9	6.36e+05	1.47	y 21:58	1.25	21.1		*	2.5	*	0.867	0.864	0.872
Di	PCB-6	1.47e+06	1.36	y 22:38	1.24	49.5		*	2.5	*	0.893	0.888	0.897
Di	PCB-5/8	5.27e+06	1.56	y 23:01	1.27	173		*	2.5	*	0.908	0.905	0.915
Di	PCB-14	*	*	n NotF	1.47	*		11100	2.5	9.25	*	0.948	0.958
Di	PCB-11	4.12e+07	1.63	y 25:22	1.28	1300		*	2.5	*	1.001	0.995	1.005
Di	PCB-12/13	8.43e+05	1.46	y 25:43	1.27	27.0		*	2.5	*	1.014	1.011	1.021
Di	PCB-15	7.36e+06	1.58	y 26:03	1.44	207		*	2.5	*	1.028	1.023	1.031
Tri	PCB-19	6.37e+05	1.07	y 24:19	1.18	44.4		*	2.5	*	1.001	0.996	1.006
Tri	PCB-30	*	*	n NotF	1.87	*		818	2.5	0.837	*	1.033	1.043
Tri	PCB-18	6.93e+06	1.09	y 25:58	0.89	414		*	2.5	*	0.953	0.949	0.959
Tri	PCB-17	2.63e+06	1.13	y 26:08	0.96	146		*	2.5	*	0.960	0.956	0.966
Tri	PCB-24/27	1.27e+06	1.07	y 26:42	1.30	51.8		*	2.5	*	0.980	0.977	0.987
Tri	PCB-16/32	5.73e+06	1.08	y 27:13	1.05	290		*	2.5	*	0.999	0.996	1.006
Tri	PCB-34	*	*	n NotF	1.30	*		2600	2.5	4.08	*	0.955	0.965
Tri	PCB-23	*	*	n NotF	1.21	*		2600	2.5	4.37	*	0.958	0.968
Tri	PCB-29	4.64e+04	1.51	n 28:23	1.21	3.04	R	*	2.5	*	0.972	0.967	0.977
Tri	PCB-26	2.34e+06	0.99	y 28:35	1.24	150		*	2.5	*	0.979	0.974	0.984
Tri	PCB-25	1.13e+06	0.94	y 28:45	1.10	81.6		*	2.5	*	0.985	0.980	0.990
Tri	PCB-31	7.06e+06	0.92	y 29:07	1.25	447		*	2.5	*	0.997	0.992	1.002
Tri	PCB-28	6.70e+06	1.01	y 29:13	1.24	429		*	2.5	*	1.001	0.996	1.006
Tri	PCB-20/21/33	4.01e+06	1.06	y 29:50	1.16	275		*	2.5	*	1.022	1.016	1.026
Tri	PCB-22	2.79e+06	0.95	y 30:15	1.16	190		*	2.5	*	1.036	1.032	1.042
Tri	PCB-36	8.23e+04	0.99	y 30:53	1.30	4.98		*	2.5	*	0.934	0.929	0.939
Tri	PCB-39	*	*	n NotF	1.26	*		2600	2.5	4.51	*	0.943	0.953
Tri	PCB-38	1.81e+05	1.06	y 32:08	1.24	11.5		*	2.5	*	0.971	0.967	0.977
Tri	PCB-35	4.42e+05	0.89	y 32:40	1.26	27.7		*	2.5	*	0.987	0.982	0.992
Tri	PCB-37	3.86e+06	0.97	y 33:06	1.35	225		*	2.5	*	1.001	0.996	1.006
Tetra	PCB-54	4.49e+04	0.85	y 28:03	1.02	2.84		*	2.5	*	1.000	0.996	1.006
Tetra	PCB-50	3.32e+04	0.83	y 29:15	0.78	2.77		*	2.5	*	1.043	1.037	1.047
Tetra	PCB-53	1.99e+06	0.74	y 29:54	1.14	145		*	2.5	*	0.946	0.941	0.951
Tetra	PCB-51	6.52e+05	0.84	y 30:14	1.16	46.3		*	2.5	*	0.957	0.952	0.962
Tetra	PCB-45	1.44e+06	0.76	y 30:39	1.04	114		*	2.5	*	0.970	0.965	0.975
Tetra	PCB-46	5.67e+05	0.67	y 31:09	0.95	49.3		*	2.5	*	0.986	0.981	0.991

Integrations by:

Analyst: DMS

Date: 2/5/15

Reviewed by: MZ Date: 2/6/15

Client ID: AS-CB-UNR-20150120-W Filename: 150127E1 S:8 Acq:27-JAN-15 18:10:58 ConCal: ST150127E1-1

Lab ID: 1500108-04 GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.001 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	2.44e+07	0.75	y	31:37	1.29	1560		*	2.5	*	1.001	0.996	1.006
Tetra	PCB-73	*	*	n	NotF	1.41	*		1630	2.5	2.34	*	0.999	1.009
Tetra	PCB-43/49	1.02e+07	0.76	y	31:55	1.14	741		*	2.5	*	1.010	1.005	1.015
Tetra	PCB-47	3.82e+06	0.72	y	32:08	1.20	242		*	2.5	*	1.001	0.996	1.006
Tetra	PCB-48/75	1.45e+06	0.73	y	32:16	1.33	83.0		*	2.5	*	1.005	0.999	1.009
Tetra	PCB-65	*	*	n	NotF	1.32	*		1630	2.5	2.40	*	1.007	1.017
Tetra	PCB-62	*	*	n	NotF	1.36	*		1630	2.5	2.32	*	1.011	1.021
Tetra	PCB-44	1.08e+07	0.75	y	32:54	0.87	939		*	2.5	*	1.024	1.020	1.030
Tetra	PCB-42/59	3.72e+06	0.76	y	33:09	1.24	229		*	2.5	*	1.032	1.027	1.037
Tetra	PCB-41/64/71/72	1.20e+07	0.73	y	33:43	1.34	679		*	2.5	*	1.050	1.045	1.055
Tetra	PCB-68	2.09e+05	0.87	y	34:00	1.61	9.89		*	2.5	*	1.059	1.053	1.063
Tetra	PCB-40	1.65e+06	0.77	y	34:12	0.86	146		*	2.5	*	1.065	1.061	1.071
Tetra	PCB-57	1.58e+05	0.69	y	34:33	1.12	8.46		*	2.5	*	0.970	0.965	0.975
Tetra	PCB-67	5.21e+05	0.71	y	34:53	1.09	28.6		*	2.5	*	0.979	0.974	0.984
Tetra	PCB-58	6.15e+04	0.79	y	35:00	1.14	3.25		*	2.5	*	0.982	0.977	0.987
Tetra	PCB-63	4.75e+05	0.67	y	35:08	1.16	24.5		*	2.5	*	0.986	0.981	0.991
Tetra	PCB-74	6.57e+06	0.77	y	35:27	1.21	325		*	2.5	*	0.995	0.989	0.999
Tetra	PCB-61/70	2.19e+07	0.77	y	35:39	1.13	1170		*	2.5	*	1.000	0.995	1.005
Tetra	PCB-76/66	1.71e+07	0.76	y	35:52	1.18	871		*	2.5	*	1.007	1.000	1.010
Tetra	PCB-80	*	*	n	NotF	1.32	*		1630	2.5	1.93	*	0.995	1.005
Tetra	PCB-55	7.76e+05	0.86	y	36:21	1.23	35.8		*	2.5	*	1.008	1.004	1.014
Tetra	PCB-56/60	8.91e+06	0.74	y	36:52	1.11	458		*	2.5	*	1.022	1.018	1.028
Tetra	PCB-79	1.30e+06	0.75	y	37:58	1.16	63.9		*	2.5	*	1.053	1.048	1.058
Tetra	PCB-78	*	*	n	NotF	1.18	*		1630	2.5	2.25	*	0.982	0.992
Tetra	PCB-81	5.82e+05	0.82	y	39:09	1.29	27.8		*	2.5	*	1.000	0.995	1.005
Tetra	PCB-77	4.56e+06	0.83	y	39:46	1.29	228		*	2.5	*	1.000	0.995	1.005
Penta	PCB-104	*	*	n	NotF	1.26	*		1860	2.5	4.56	*	0.996	1.006
Penta	PCB-96	4.43e+05	1.70	y	34:01	1.09	35.4		*	2.5	*	1.039	1.034	1.044
Penta	PCB-103	3.65e+05	1.51	y	34:34	0.97	32.8		*	2.5	*	1.055	1.051	1.061
Penta	PCB-100	2.01e+05	1.67	y	34:56	0.96	18.2		*	2.5	*	1.067	1.061	1.071
Penta	PCB-94	3.45e+05	1.58	y	35:23	1.13	35.8		*	2.5	*	0.985	0.980	0.990
Penta	PCB-95/98/102	4.80e+07	1.59	y	35:56	1.29	4380		*	2.5	*	1.000	0.994	1.004
Penta	PCB-93	*	*	n	NotF	1.06	*		1860	2.5	7.31	*	0.998	1.008
Penta	PCB-88/91	7.81e+06	1.54	y	36:20	1.12	817		*	2.5	*	1.012	1.006	1.016
Penta	PCB-121	*	*	n	NotF	1.76	*		1860	2.5	4.41	*	1.009	1.019
Penta	PCB-84/92	2.40e+07	1.63	y	37:15	1.07	2510		*	2.5	*	0.990	0.985	0.995
Penta	PCB-89	2.83e+05	1.71	y	37:25	1.00	31.8		*	2.5	*	0.995	0.990	1.000

Analyst: DMS

Date: 2/5/15

Client ID: AS-CB-UNR-20150120-W Filename: 150127E1 S:8 Acq:27-JAN-15 18:10:58 ConCal: ST150127E1-1

Lab ID: 1500108-04 GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.001 EndCAL: NA

Type	Name	Resp	RA		RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	6.02e+07	1.62	y	37:37	1.21	5590		*	2.5	*	1.000	0.995	1.005
Penta	PCB-113	*	*	n	NotF	1.34	*		1860	2.5	5.54	*	1.002	1.012
Penta	PCB-99	2.59e+07	1.62	y	37:58	1.25	2330		*	2.5	*	1.009	1.004	1.014
Penta	PCB-119	1.44e+06	1.59	y	38:25	1.88	91.3		*	2.5	*	0.987	0.982	0.992
Penta	PCB-108/112	2.74e+06	1.66	y	38:34	1.41	232		*	2.5	*	0.991	0.986	0.996
Penta	PCB-83	*	*	n	NotF	1.66	*		1860	2.5	4.83	*	0.990	1.000
Penta	PCB-97	1.60e+07	1.60	y	38:56	1.30	1470		*	2.5	*	1.000	0.995	1.005
Penta	PCB-86	*	*	n	NotF	1.03	*		1860	2.5	7.78	*	0.999	1.009
Penta	PCB-87/117/125	2.54e+07	1.62	y	39:13	1.59	1900		*	2.5	*	1.008	1.002	1.012
Penta	PCB-111/115	1.65e+06	1.65	y	39:22	1.86	106		*	2.5	*	1.012	1.006	1.016
Penta	PCB-85/116	1.10e+07	1.59	y	39:29	1.39	937		*	2.5	*	1.015	1.010	1.020
Penta	PCB-120	1.84e+05	1.63	y	39:40	1.99	11.0		*	2.5	*	1.019	1.016	1.026
Penta	PCB-110	1.27e+08	1.62	y	39:51	1.70	8880		*	2.5	*	1.024	1.019	1.029
Penta	PCB-82	5.64e+06	1.56	y	40:29	0.74	724		*	2.5	*	0.976	0.971	0.981
Penta	PCB-124	3.96e+06	1.66	y	41:11	1.30	289		*	2.5	*	0.993	0.988	0.998
Penta	PCB-107/109	4.08e+06	1.60	y	41:21	1.34	292		*	2.5	*	0.997	0.991	1.001
Penta	PCB-123	1.36e+06	1.63	y	41:30	1.25	104		*	2.5	*	1.000	0.995	1.005
Penta	PCB-106/118	5.68e+07	1.61	y	41:42	1.29	4170		*	2.5	*	1.001	0.996	1.006
Penta	PCB-114	9.39e+05	1.68	y	42:20	1.45	49.1		*	2.5	*	1.000	0.995	1.005
Penta	PCB-122	1.26e+06	1.77	y	42:29	1.22	78.2		*	2.5	*	1.004	0.999	1.009
Penta	PCB-105	2.62e+07	1.64	y	43:12	1.56	1380		*	2.5	*	1.001	0.995	1.005
Penta	PCB-127	*	*	n	NotF	1.31	*		1930	2.5	4.72	*	0.995	1.005
Penta	PCB-126	9.94e+05	1.57	y	45:27	1.41	63.4		*	2.5	*	1.000	0.995	1.005
Hexa	PCB-155	*	*	n	NotF	1.20	*		1540	2.5	4.57	*	0.966	1.006
Hexa	PCB-150	1.11e+05	1.47	n	38:25	1.13	10.7	R	*	2.5	*	1.034	1.030	1.040
Hexa	PCB-152	1.20e+05	1.22	y	38:53	1.17	11.1		*	2.5	*	1.047	1.043	1.053
Hexa	PCB-145	3.77e+04	1.09	y	39:20	1.09	3.75		*	2.5	*	1.059	1.055	1.065
Hexa	PCB-136	1.37e+07	1.32	y	39:39	1.14	1300		*	2.5	*	1.067	1.063	1.073
Hexa	PCB-148	5.93e+04	0.94	n	39:49	0.82	7.89	R	*	2.5	*	1.072	1.066	1.076
Hexa	PCB-154	7.53e+05	1.37	y	40:16	0.89	92.0		*	2.5	*	1.084	1.079	1.089
Hexa	PCB-151	1.63e+07	1.30	y	40:55	0.82	2170		*	2.5	*	1.101	1.097	1.107
Hexa	PCB-135	1.22e+07	1.28	y	41:07	0.80	1660		*	2.5	*	1.107	1.101	1.113
Hexa	PCB-144	2.97e+06	1.30	y	41:15	0.86	378		*	2.5	*	1.110	1.105	1.116
Hexa	PCB-147	1.40e+06	1.33	y	41:22	0.78	195		*	2.5	*	1.114	1.108	1.120
Hexa	PCB-139/149	6.97e+07	1.32	y	41:37	0.87	8710		*	2.5	*	1.120	1.115	1.127
Hexa	PCB-140	3.92e+05	1.13	y	41:50	0.78	54.9		*	2.5	*	1.126	1.120	1.132
Hexa	PCB-134/143	7.68e+06	1.23	y	42:16	0.93	659		*	2.5	*	0.975	0.970	0.980

Analyst: DMS

Date: 2/5/15

Client ID: AS-CB-UNR-20150120-W Filename: 150127E1 S:8 Acq:27-JAN-15 18:10:58 ConCal: ST150127E1-1

Lab ID: 1500108-04 GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.001 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL UCL
Hexa	PCB-133/142	3.56e+06	1.25	y 42:33	0.91	313		*	2.5	*	0.982	0.977-0.987
Hexa	PCB-131	*	*	n NotF¶	0.85	*		2780	2.5	8.43	*	0.981-0.991
Hexa	PCB-146/165	2.37e+07	1.28	y 42:57	1.08	1750		*	2.5	*	0.991	0.986-0.996
Hexa	PCB-132/161	4.83e+07	1.22	y 43:12	1.12	3450		*	2.5	*	0.997	0.992-1.002
Hexa	PCB-153	1.34e+08	1.28	y 43:22	1.20	8950		*	2.5	*	1.000	0.996-1.006
Hexa	PCB-168	1.17e+05	1.58	n 43:34	1.36	6.91	R	*	2.5	*	1.005	1.000-1.010
Hexa	PCB-141	2.89e+07	1.25	y 44:06	1.16	2410		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-137	7.46e+06	1.24	y 44:29	1.18	612		*	2.5	*	1.009	1.004-1.014
Hexa	PCB-130	8.92e+06	1.30	y 44:36	0.92	936		*	2.5	*	1.012	1.006-1.016
Hexa	PCB-138/163/164	1.88e+08	1.27	y 44:57	1.38	13200		*	2.5	*	1.001	0.996-1.006
Hexa	PCB-158/160	2.09e+07	1.28	y 45:12	1.48	1360		*	2.5	*	1.006	1.001-1.011
Hexa	PCB-129	6.61e+06	1.28	y 45:27	0.99	645		*	2.5	*	1.012	1.007-1.017
Hexa	PCB-166	5.28e+05	1.10	y 45:54	1.14	37.5		*	2.5	*	0.992	0.988-0.998
Hexa	PCB-159	*	*	n NotF¶	1.22	*		2780	2.5	6.18	*	0.995-1.005
Hexa	PCB-128/162	2.99e+07	1.26	y 46:30	1.03	2340		*	2.5	*	1.005	1.002-1.012
Hexa	PCB-167	7.74e+06	1.27	y 46:57	1.18	553		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-156	1.20e+07	1.28	y 48:14	1.27	812		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-157	4.67e+06	1.24	y 48:29	1.22	323		*	2.5	*	1.000	0.995-1.005
Hexa	PCB-169	4.12e+04	0.73	n 50:40	1.07	3.99	R	*	2.5	*	1.000	0.995-1.005
Hepta	PCB-188	1.07e+05	1.01	y 42:59	1.52	8.36		*	2.5	*	1.001	0.996-1.006
Hepta	PCB-184	1.08e+05	1.09	y 43:26	1.34	9.58		*	2.5	*	1.011	1.006-1.016
Hepta	PCB-179	1.53e+07	1.04	y 44:11	1.39	1310		*	2.5	*	1.029	1.024-1.034
Hepta	PCB-176	4.65e+06	1.06	y 44:40	1.45	381		*	2.5	*	1.040	1.035-1.045
Hepta	PCB-186	*	*	n NotF¶	1.46	*		975	2.5	1.60	*	1.049-1.059
Hepta	PCB-178	5.31e+06	1.10	y 45:47	1.07	588		*	2.5	*	1.066	1.061-1.071
Hepta	PCB-175	1.03e+06	1.10	y 46:07	1.05	117		*	2.5	*	1.074	1.069-1.079
Hepta	PCB-182/187	3.50e+07	1.08	y 46:18	1.14	3670		*	2.5	*	1.078	1.073-1.083
Hepta	PCB-183	1.68e+07	1.04	y 46:37	1.22	1630		*	2.5	*	1.085	1.080-1.090
Hepta	PCB-185	3.16e+06	1.07	y 47:18	1.40	389		*	2.5	*	0.955	0.950-0.960
Hepta	PCB-174	2.72e+07	1.10	y 47:38	1.29	3650		*	2.5	*	0.962	0.958-0.968
Hepta	PCB-181	*	*	n NotF¶	1.35	*		975	2.5	2.72	*	0.960-0.970
Hepta	PCB-177	1.48e+07	1.09	y 47:55	1.27	2020		*	2.5	*	0.968	0.963-0.973
Hepta	PCB-171	7.37e+06	1.09	y 48:13	1.46	876		*	2.5	*	0.974	0.969-0.979
Hepta	PCB-173	5.46e+05	1.14	y 48:39	1.10	85.6		*	2.5	*	0.982	0.978-0.988
Hepta	PCB-172	4.71e+06	1.08	y 49:06	1.35	602		*	2.5	*	0.992	0.987-0.997
Hepta	PCB-192	*	*	n NotF¶	1.74	*		975	2.5	2.11	*	0.991-1.001
Hepta	PCB-180	6.13e+07	1.08	y 49:32	1.45	7320		*	2.5	*	1.000	0.995-1.005

Analyst: DMS

Date: 2/5/15

Client ID: AS-CB-UNR-20150120-W Filename: 150127E1 S:8 Acq:27-JAN-15 18:10:58 ConCal: ST150127E1-1
Lab ID: 1500108-04 GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.001 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	3.15e+06	1.07	y 49:43	1.85	294		*	2.5	*	1.004	0.999	1.009
Hepta	PCB-191	1.22e+06	1.03	y 49:58	1.86	113		*	2.5	*	1.009	1.005	1.015
Hepta	PCB-170	2.21e+07	1.09	y 51:01	1.67	3310		*	2.5	*	1.000	0.995	1.005
Hepta	PCB-190	5.25e+06	1.07	y 51:12	2.25	584		*	2.5	*	1.004	0.999	1.009
Hepta	PCB-189	9.05e+05	1.18	y 52:33	1.67	125		*	2.5	*	1.000	0.995	1.005
Octa	PCB-202	2.63e+06	0.90	y 48:25	1.02	407		*	2.5	*	1.000	0.995	1.005
Octa	PCB-201	1.68e+06	0.97	y 48:54	1.10	242		*	2.5	*	1.010	1.005	1.015
Octa	PCB-204	*	*	n NotF╖	1.07	*		860	2.5	3.38	*	1.009	1.019
Octa	PCB-197	4.52e+05	0.93	y 49:23	1.17	61.2		*	2.5	*	1.020	1.015	1.025
Octa	PCB-200	1.51e+06	0.91	y 50:15	1.03	230		*	2.5	*	1.038	1.034	1.044
Octa	PCB-198	4.91e+05	0.88	y 51:35	0.75	103		*	2.5	*	1.066	1.062	1.072
Octa	PCB-199	8.65e+06	0.94	y 51:44	0.74	1840		*	2.5	*	1.069	1.064	1.074
Octa	PCB-196/203	9.48e+06	0.93	y 52:00	0.83	1810		*	2.5	*	1.074	1.070	1.080
Octa	PCB-195	3.17e+06	0.91	y 53:10	1.14	731		*	2.5	*	0.983	0.979	0.989
Octa	PCB-194	7.41e+06	0.89	y 54:04	1.29	1510		*	2.5	*	1.000	0.995	1.005
Octa	PCB-205	4.69e+05	0.82	y 54:21	1.61	76.7		*	2.5	*	1.005	1.001	1.010
Nona	PCB-208	1.35e+06	1.33	y 53:18	1.01	245		*	2.5	*	1.000	0.995	1.005
Nona	PCB-207	5.86e+05	1.41	y 53:37	1.03	105		*	2.5	*	1.006	1.001	1.011
Nona	PCB-206	3.41e+06	1.36	y 55:44	0.88	1000		*	2.5	*	1.000	0.995	1.005
Deca	PCB-209	1.05e+06	1.14	y 57:07	1.35	204		*	2.5	*	1.000	0.995	1.005

Analyst: DMS

Date: 2/5/15

Client ID: AS-CB-UNR-20150120-W Filename: 150127E1 S:8 Acq:27-JAN-15 18:10:58 ConCal: ST150127E1-1
Lab ID: 1500108-04 GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.0006 EndCAL: NA

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	1.13e+06	3.26 y	16:11	1.31	41.5431	
Total Di-PCB	5.80e+07	1.58 y	20:09	1.32	1828.61	
Total Tri-PCB	1.72e+07	1.07 y	24:19	1.20	946.291	
Total Tri-PCB	2.86e+07	0.99 y	28:35	1.23	1840.66	Sum:2786.95
Total Tetra-PCB	1.36e+08	0.85 y	28:03	1.17	8231.62	
Total Penta-PCB	4.25e+08	1.70 y	34:01	1.24	34976.5	
Total Penta-PCB	2.94e+07	1.68 y	42:20	1.39	1571.19	Sum:36547.7
Total Hexa-PCB	1.17e+08	1.22 y	38:53	0.94	14570.0	
Total Hexa-PCB	5.33e+08	1.23 y	42:16	1.13	38317.7	Sum:52887.7
Total Hepta-PCB	2.30e+08	1.01 y	42:59	1.37	27079.6	
Total Octa-PCB	2.49e+07	0.90 y	48:25	0.95	4693.78	
Total Octa-PCB	1.10e+07	0.91 y	53:10	1.35	2315.30	Sum:7009.08
Total Nona-PCB	5.34e+06	1.33 y	53:18	0.99	1353.20	
Total Deca-PCB	1.05e+06	1.14 y	57:07	1.35	203.879	

Total PCB Conc:138002.506462

Integrations by Analyst: DMS

Date: 2/5/15

Client ID: AS-CB-UNR-20150120-W Filename: 150127E1 S:8 Acq:27-JAN-15 18:10:58 ConCal: ST150127E1-1
Lab ID: 1500108-04 GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol:1.0006 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	4.09e+07	3.49 y	0.91	16:10	0.621	0.619	0.625	1530	76.3
13C-PCB-3	4.18e+07	3.54 y	0.94	18:48	0.722	0.718	0.726	1510	75.3
13C-PCB-4	2.87e+07	1.59 y	0.60	20:08	0.773	0.770	0.778	1630	81.5
13C-PCB-9	4.81e+07	1.58 y	0.96	21:56	0.843	0.839	0.847	1700	84.9
13C-PCB-11	4.94e+07	1.56 y	0.95	25:21	0.974	0.968	0.978	1760	87.9
13C-PCB-19	2.42e+07	1.15 y	0.56	24:18	0.933	0.929	0.939	1460	73.2
13C-PCB-28	2.53e+07	1.05 y	1.07	29:12	1.003	0.999	1.009	1510	75.4
13C-PCB-32	3.77e+07	1.12 y	0.83	27:14	1.046	1.041	1.051	1550	77.6
13C-PCB-37	2.54e+07	1.06 y	0.96	33:05	1.137	1.131	1.143	1680	84.2
13C-PCB-47	2.63e+07	0.81 y	0.77	32:07	0.871	0.867	0.875	1800	90.3
13C-PCB-52	2.42e+07	0.78 y	0.71	31:36	0.857	0.853	0.861	1790	89.6
13C-PCB-54	3.08e+07	0.80 y	1.06	28:03	0.761	0.757	0.765	1530	76.7
13C-PCB-70	3.33e+07	0.82 y	0.99	35:38	0.967	0.961	0.971	1770	88.4
13C-PCB-77	3.11e+07	0.84 y	0.96	39:45	1.078	1.073	1.083	1700	84.8
13C-PCB-80	3.52e+07	0.82 y	1.02	36:04	0.978	0.973	0.983	1810	90.8
13C-PCB-81	3.24e+07	0.82 y	1.00	39:09	1.062	1.057	1.067	1710	85.6
13C-PCB-95	1.70e+07	1.60 y	0.70	35:55	0.912	0.908	0.918	1880	94.2
13C-PCB-97	1.68e+07	1.60 y	0.66	38:55	0.989	0.984	0.994	1970	98.7
13C-PCB-101	1.78e+07	1.55 y	0.77	37:37	0.956	0.951	0.961	1800	90.0
13C-PCB-104	2.29e+07	1.59 y	0.97	32:45	0.832	0.828	0.836	1830	91.7
13C-PCB-105	2.44e+07	1.65 y	1.20	43:10	0.929	0.924	0.934	1830	91.4
13C-PCB-114	2.63e+07	1.62 y	1.26	42:19	0.910	0.905	0.915	1880	94.1
13C-PCB-118	2.10e+07	1.65 y	0.94	41:29	1.054	1.054	1.064	1730	86.6
13C-PCB-123	2.10e+07	1.65 y	0.88	41:29	1.054	1.049	1.059	1840	92.0
13C-PCB-126	2.22e+07	1.61 y	1.13	45:27	0.978	0.972	0.982	1770	88.7
13C-PCB-127	2.49e+07	1.58 y	1.26	43:32	0.937	0.931	0.941	1780	89.2
13C-PCB-138	2.07e+07	1.33 y	1.12	44:55	0.966	0.961	0.971	1670	83.3
13C-PCB-141	2.07e+07	1.30 y	1.09	44:05	0.948	0.943	0.953	1700	85.2
13C-PCB-153	2.50e+07	1.24 y	1.27	43:21	0.933	0.927	0.937	1770	88.5
13C-PCB-155	1.84e+07	1.34 y	0.87	37:09	0.944	0.939	0.949	1630	81.7
13C-PCB-156	2.33e+07	1.30 y	1.35	48:13	1.037	1.032	1.042	1560	77.8
13C-PCB-157	2.37e+07	1.32 y	1.42	48:29	1.043	1.037	1.047	1510	75.4
13C-PCB-159	2.46e+07	1.33 y	1.37	46:15	0.995	0.989	0.999	1620	81.0
13C-PCB-167	2.36e+07	1.34 y	1.38	46:56	1.010	1.004	1.014	1540	77.1
13C-PCB-169	1.92e+07	1.33 y	1.38	50:40	1.090	1.084	1.094	1250	62.7
13C-PCB-170	8.01e+06	0.48 y	0.60	51:00	1.097	1.091	1.103	1190	59.8
13C-PCB-180	1.16e+07	0.48 y	0.76	49:31	1.065	1.059	1.069	1370	68.8
13C-PCB-188	1.68e+07	0.48 y	1.01	42:57	0.924	0.919	0.929	1490	74.5
13C-PCB-189	8.68e+06	0.45 y	0.80	52:32	1.130	1.124	1.136	974	48.7
13C-PCB-194	7.60e+06	0.91 y	0.75	54:04	0.995	0.990	1.000	1630	81.5
13C-PCB-202	1.27e+07	0.96 y	0.99	48:24	1.041	1.036	1.046	1150	57.6
13C-PCB-206	7.71e+06	0.78 y	0.73	55:43	1.025	1.020	1.301	1680	84.0
13C-PCB-208	1.08e+07	0.78 y	1.08	53:18	0.981	0.977	0.987	1600	80.1
13C-PCB-209	7.62e+06	1.24 y	0.71	57:06	1.051	1.045	1.055	1710	85.8

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	3.90e+07	0.82 y	1.02	37:56	1.029	1.024	1.033	2010	100
13C-PCB-178	1.29e+07	0.46 y	0.64	45:46	0.985	0.980	0.989	1820	91.1

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	3.90e+07	0.82 y	1.02	37:56	0.969	0.963	0.973	2340	117
13C-PCB-178	1.29e+07	0.46 y	0.84	45:46	0.924	0.920	0.930	2650	132

RS

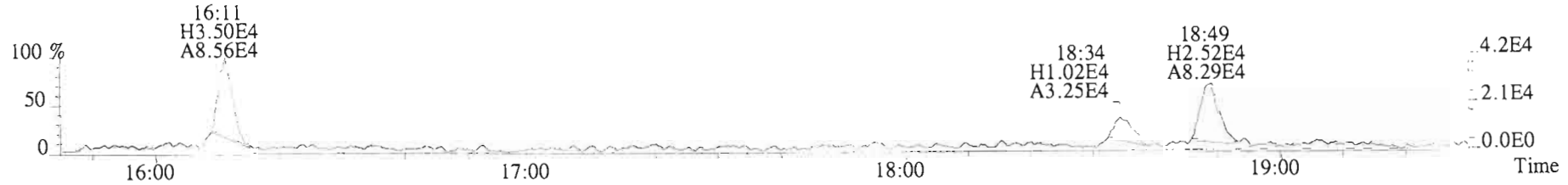
Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	5.89e+07	1.57	y	1.00	26:02	2000
13C-PCB-31	3.13e+07	1.05	y	1.00	29:06	2000
13C-PCB-60	3.80e+07	0.80	y	1.00	36:52	2000
13C-PCB-111	2.59e+07	1.58	y	1.00	39:22	2000
13C-PCB-128	2.22e+07	1.32	y	1.00	46:29	2000
13C-PCB-205	1.25e+07	0.87	y	1.00	54:21	2000

Analyst: DMS

Date: 2/5/15

File:150127E1 #1-728 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
188.0393 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2272.0,0.00%,F,F)

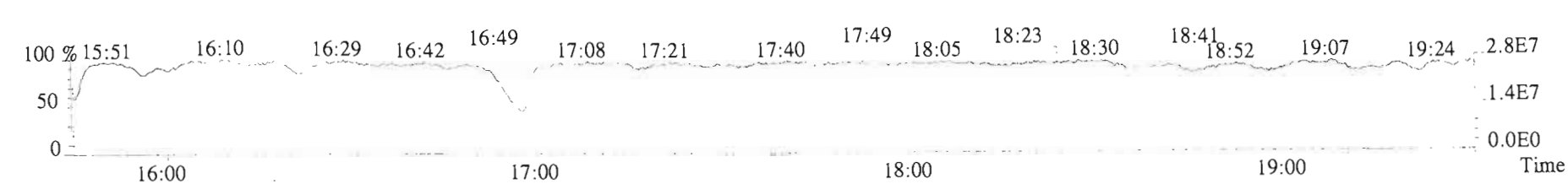
190.0363 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2992.0,0.00%,F,F)



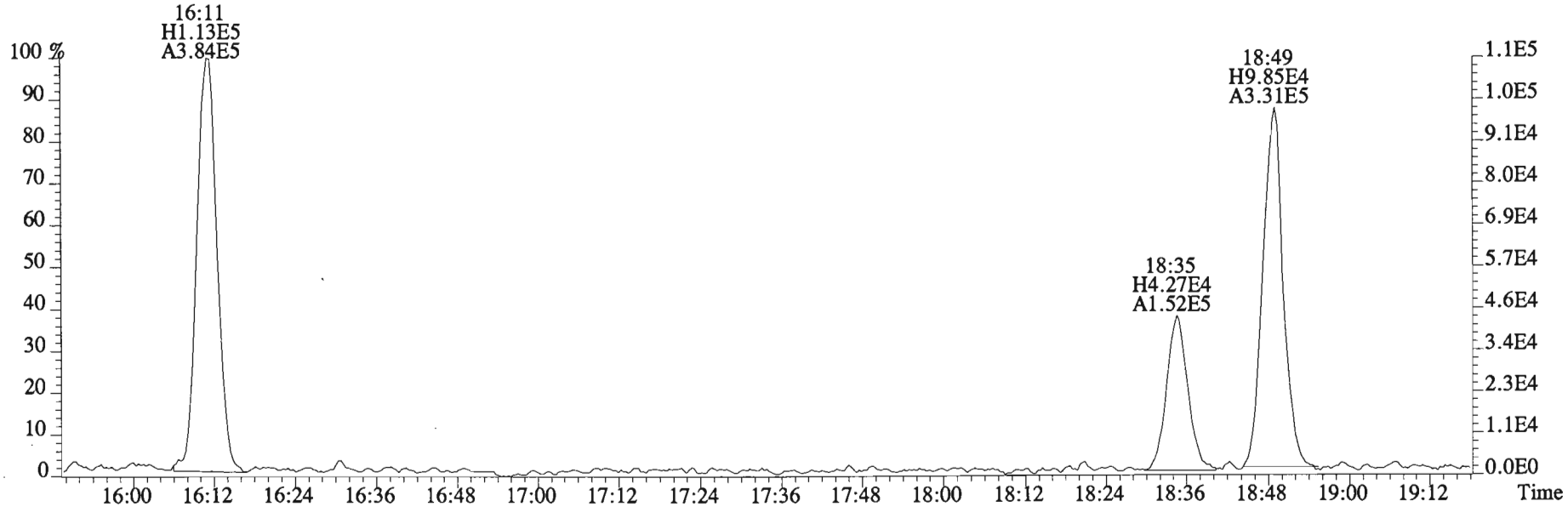
200.0795 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4908.0,0.00%,F,F)

202.0766 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,43276.0,0.00%,F,F)

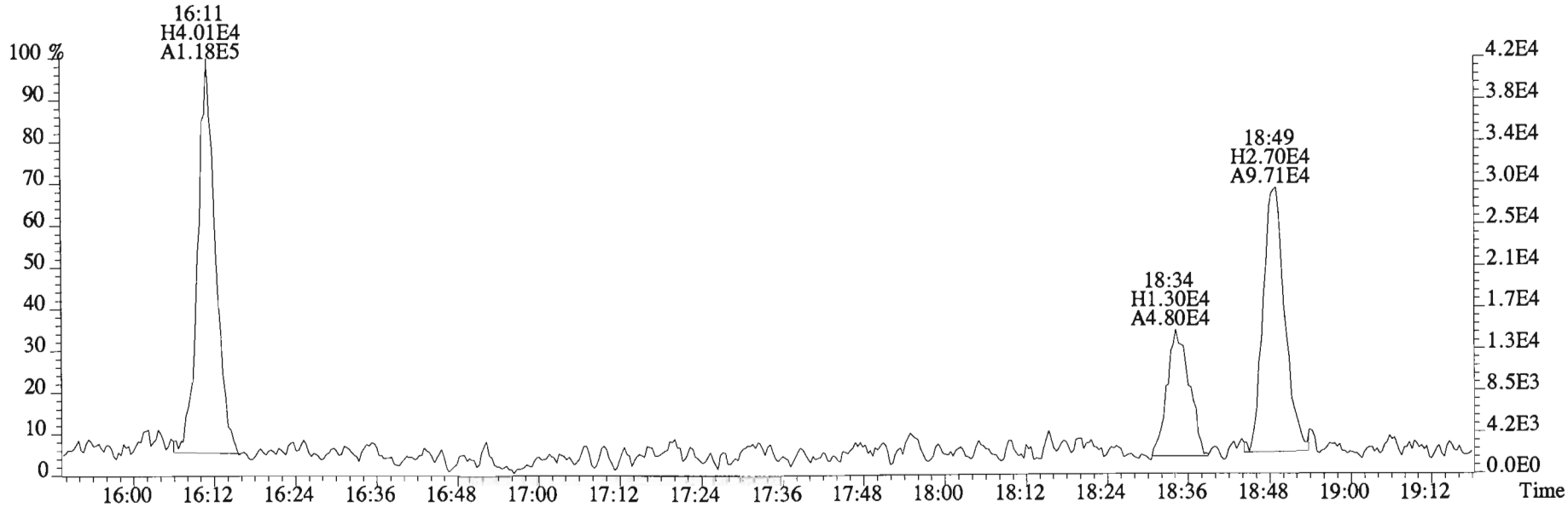
180.9880 S:8



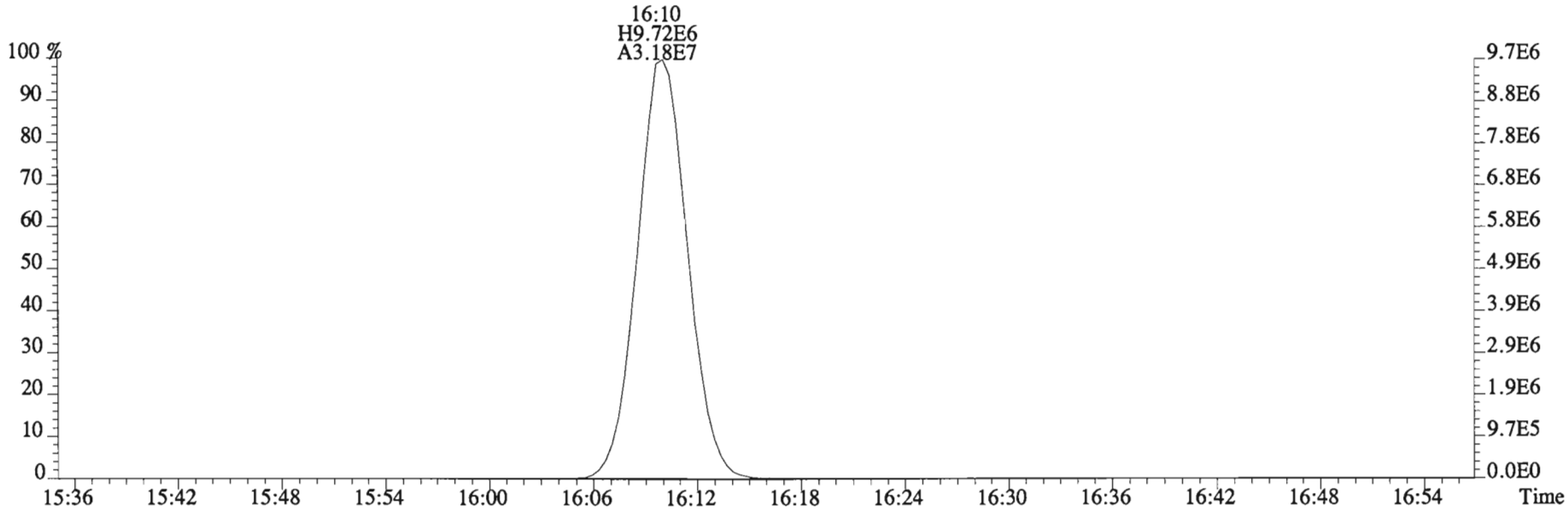
File:150127E1 #1-728 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
188.0393 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2272.0,0.00%,F,F)



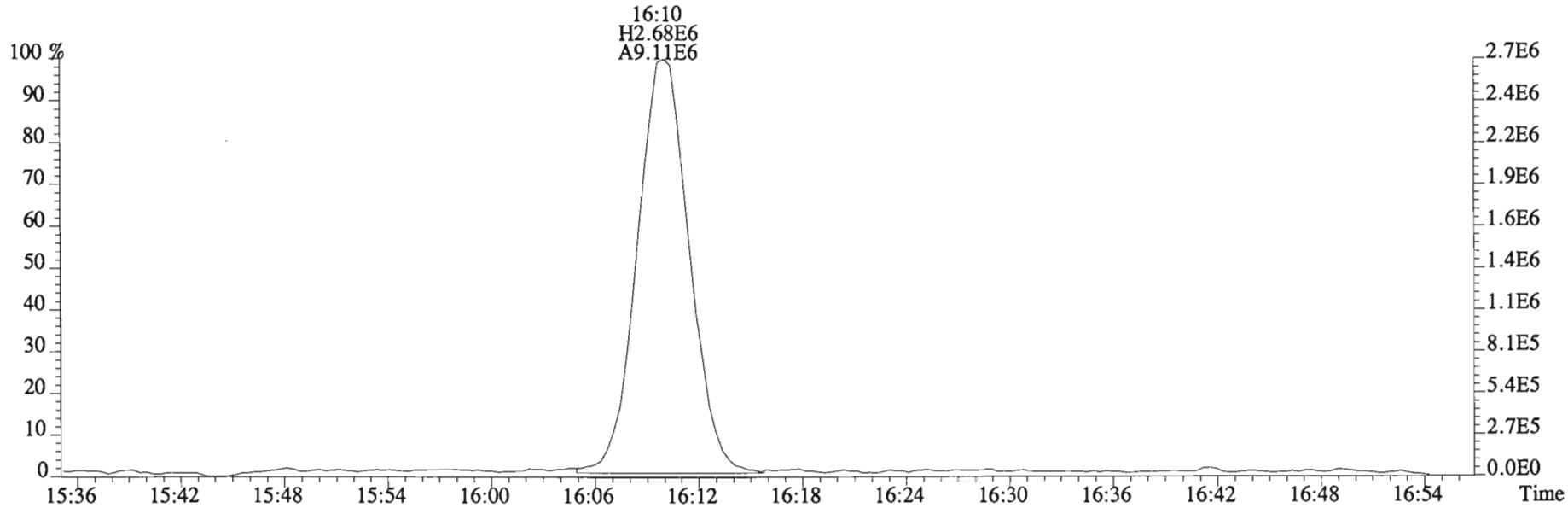
190.0363 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2992.0,0.00%,F,F)



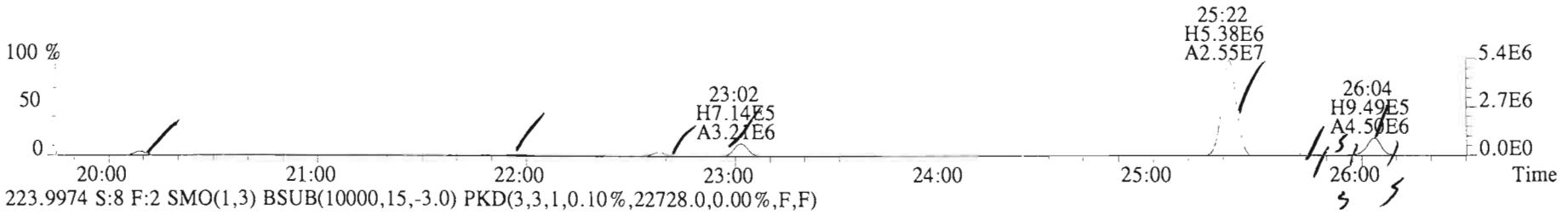
File:150127E1 #1-728 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
200.0795 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4908.0,0.00%,F,F)



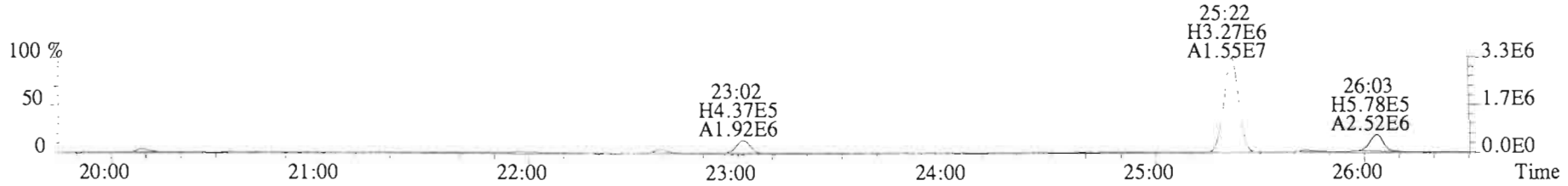
202.0766 S:8 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,43276.0,0.00%,F,F)



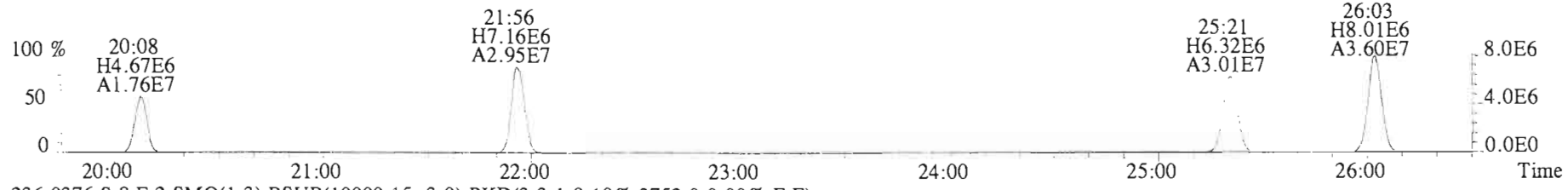
File:150127E1 #1-758 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2768.0,0.00%,F,F)



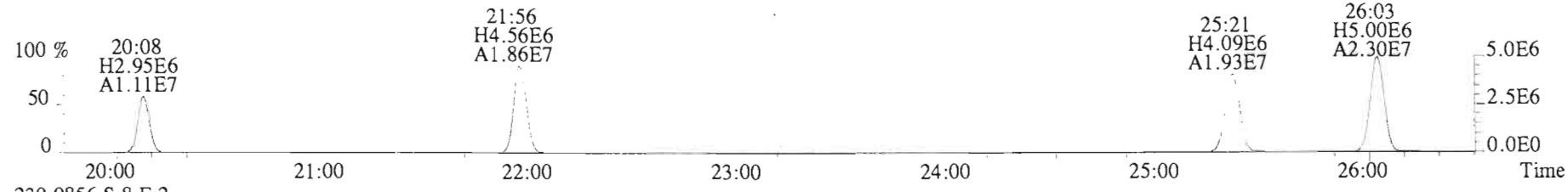
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,22728.0,0.00%,F,F)



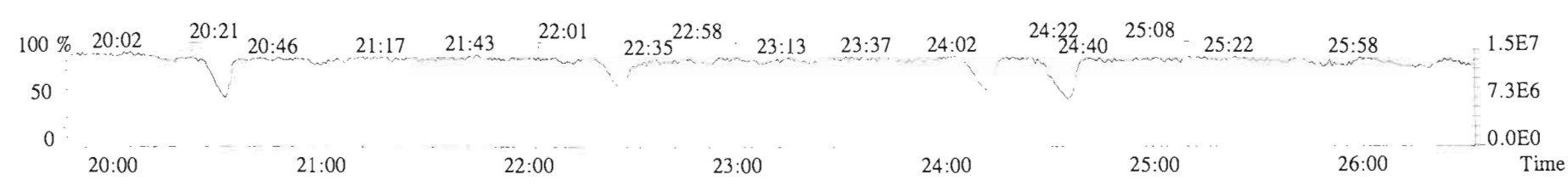
234.0406 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3512.0,0.00%,F,F)



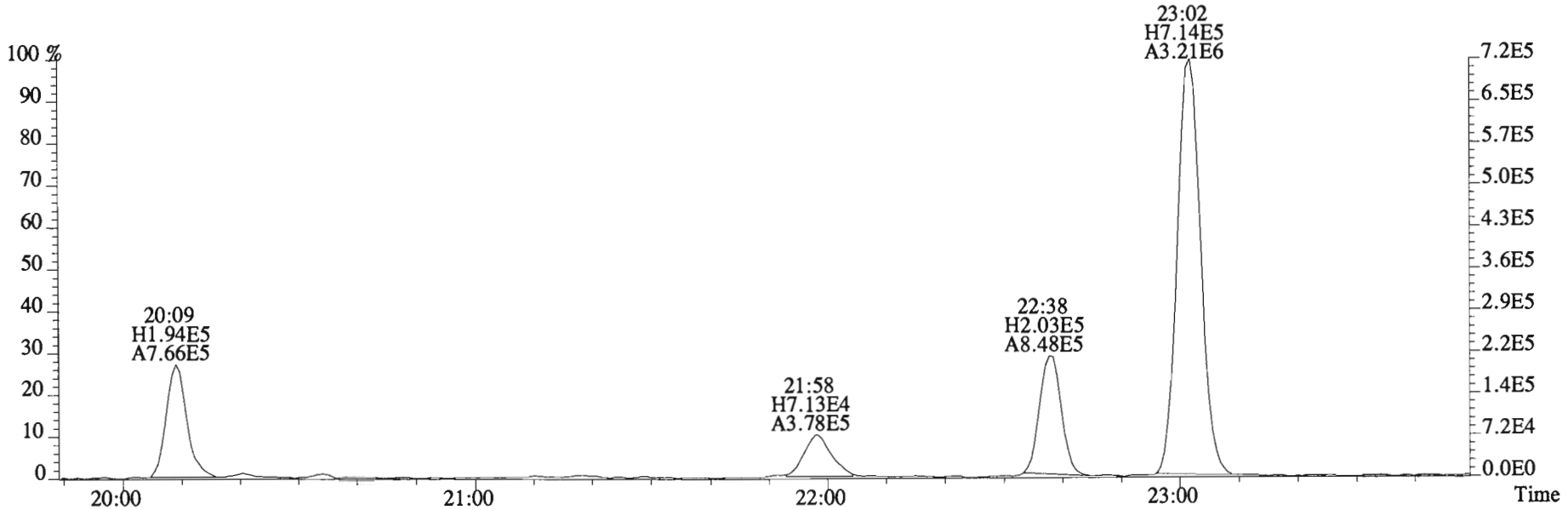
236.0376 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3752.0,0.00%,F,F)



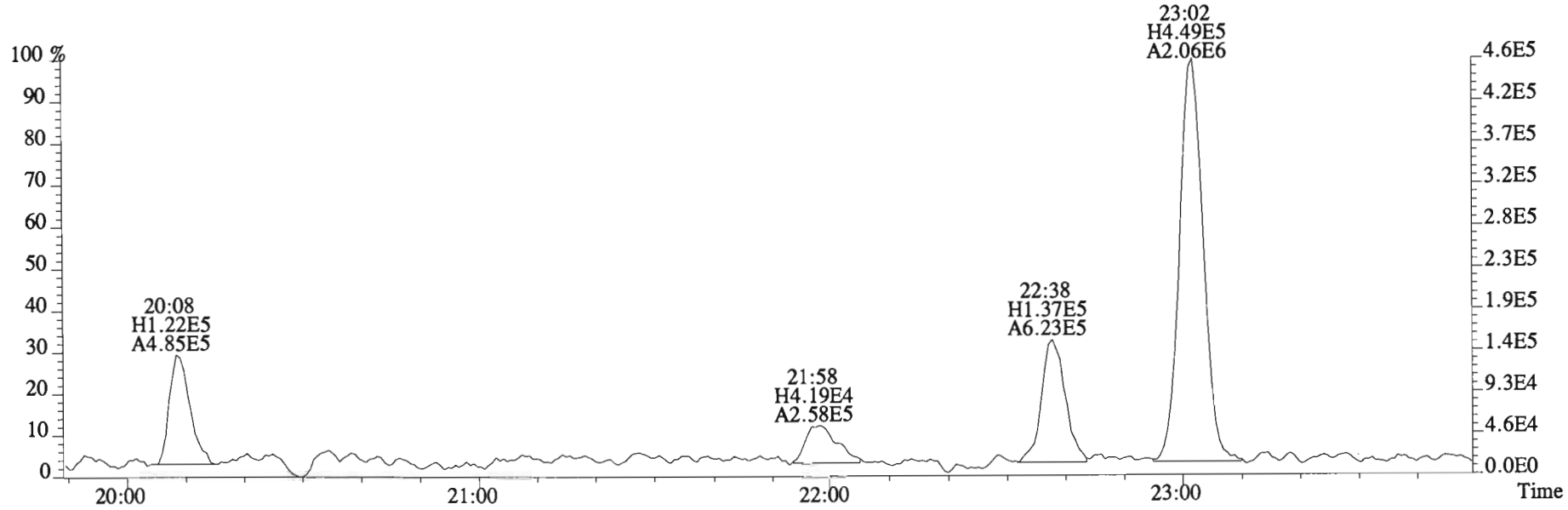
230.9856 S:8 F:2



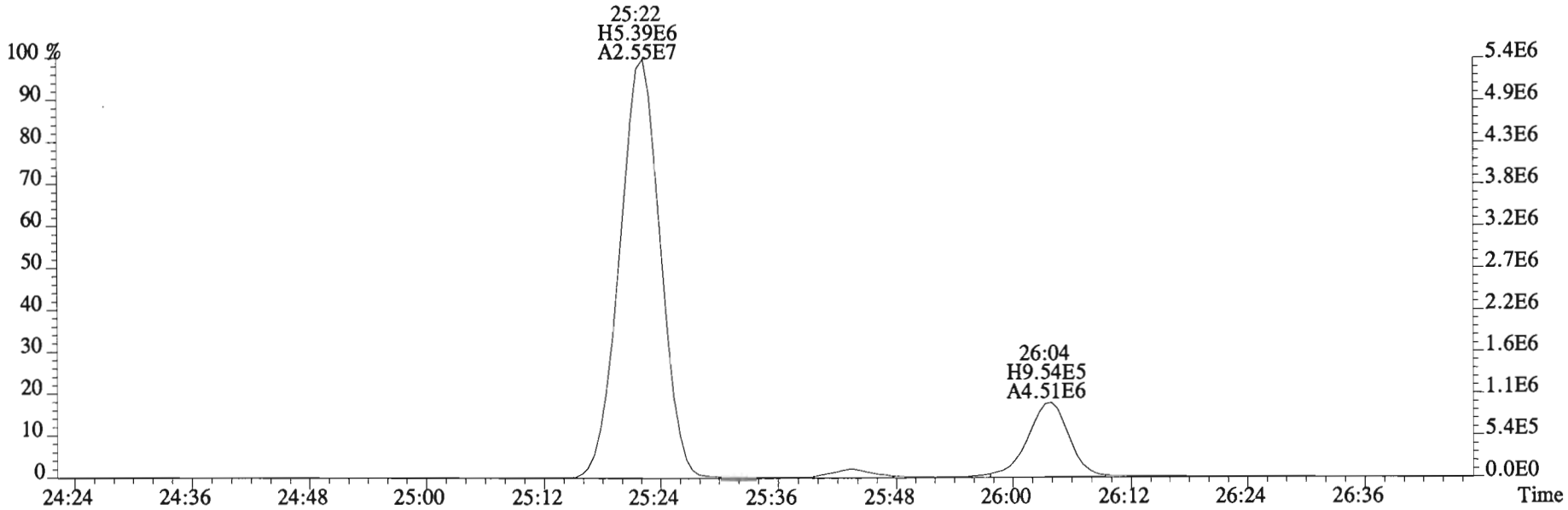
File:150127E1 #1-758 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2768.0,0.00%,F,F)



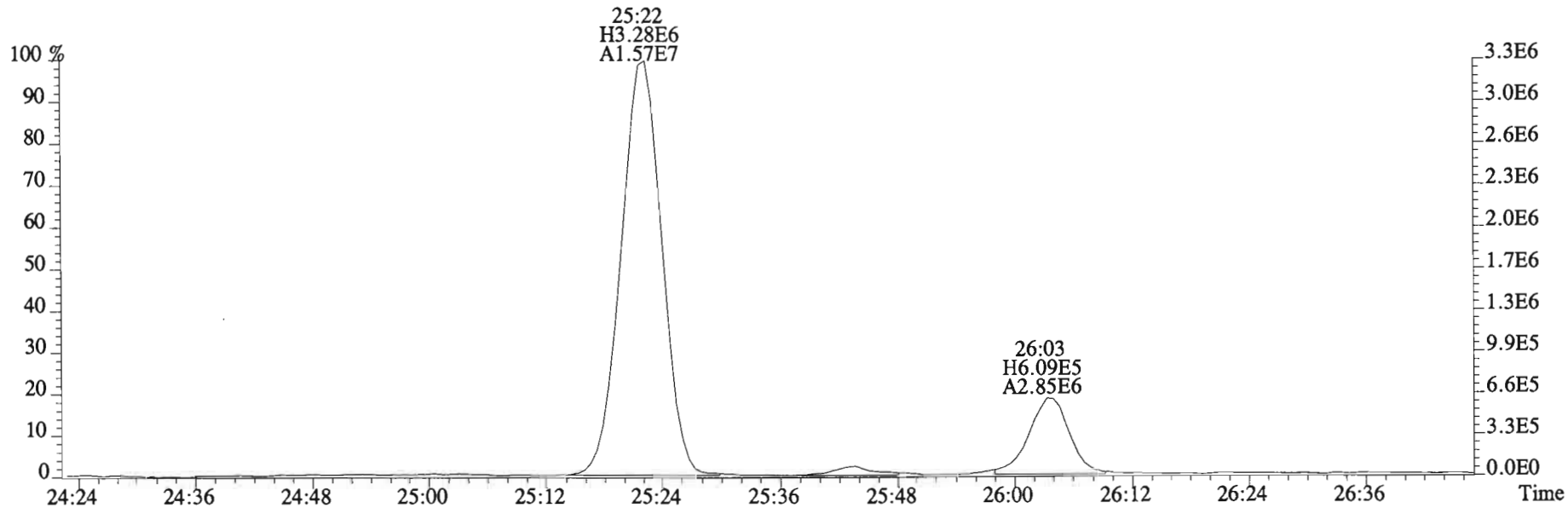
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,22728.0,0.00%,F,F)



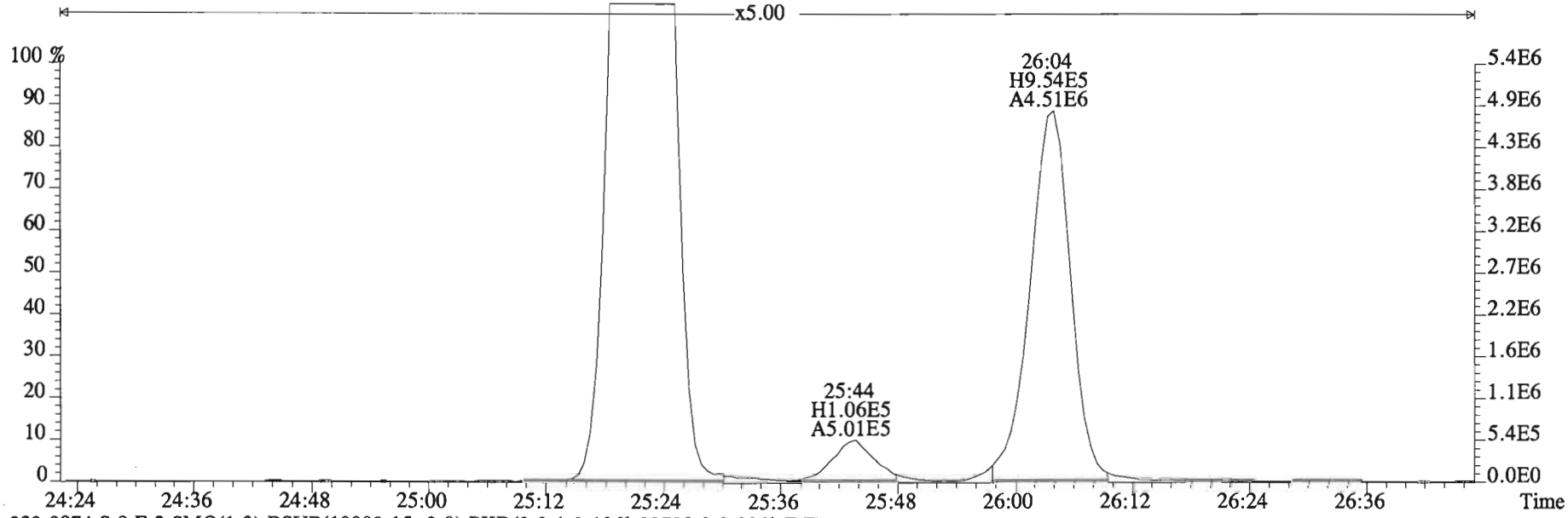
File:150127E1 #1-758 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2768.0,0.00%,F,F)



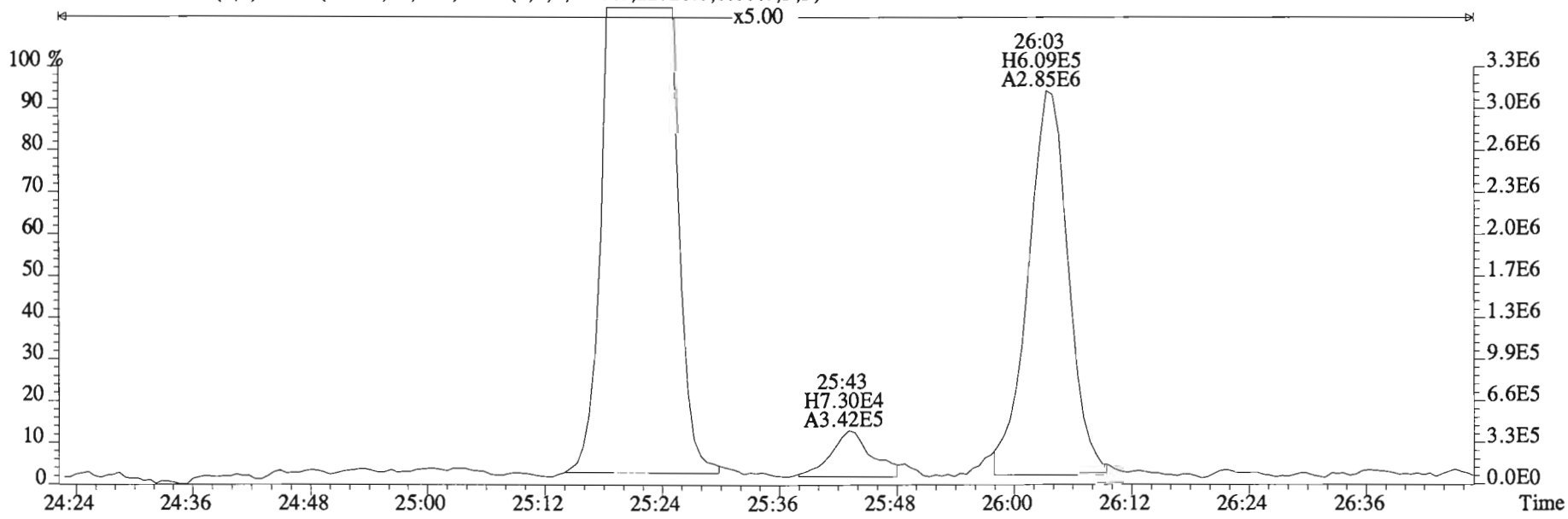
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,22728.0,0.00%,F,F)



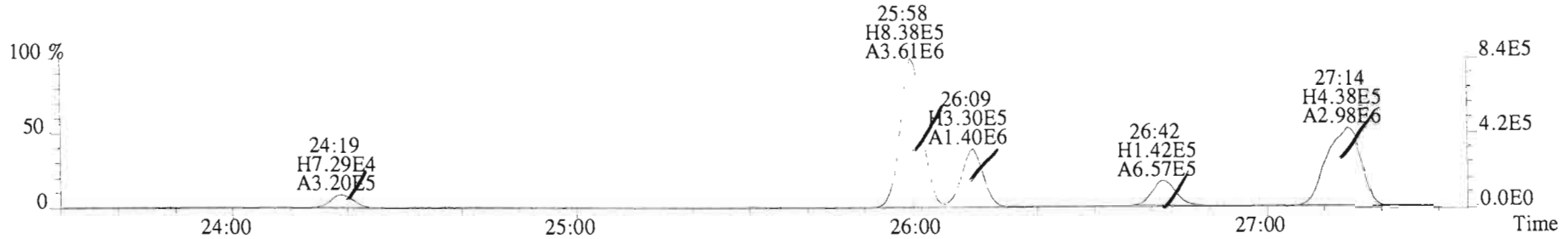
File:150127E1 #1-758 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
222.0003 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2768.0,0.00%,F,F)



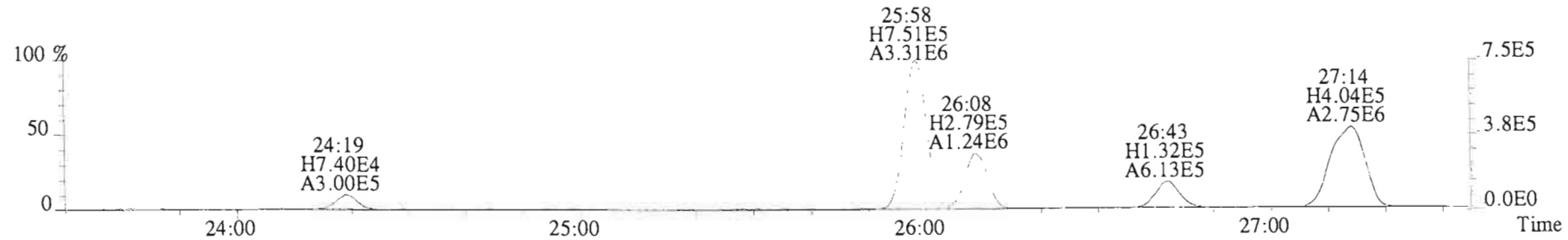
223.9974 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,22728.0,0.00%,F,F)



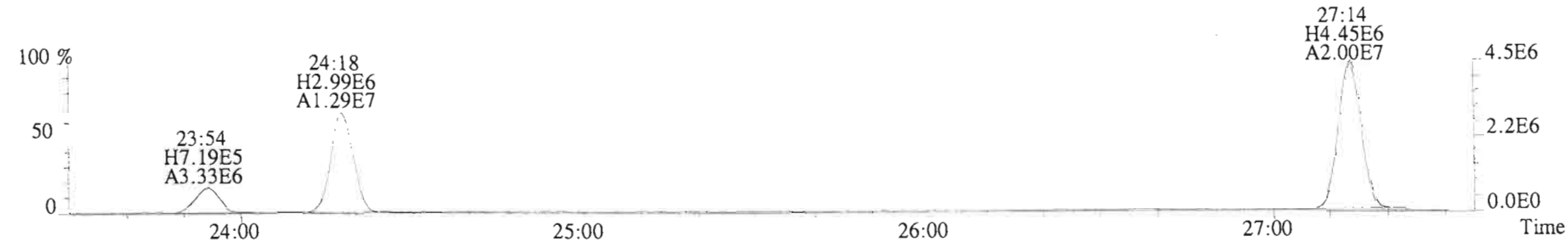
File:150127E1 #1-758 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
255.9613 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3152.0,0.00%,F,F)



257.9584 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)

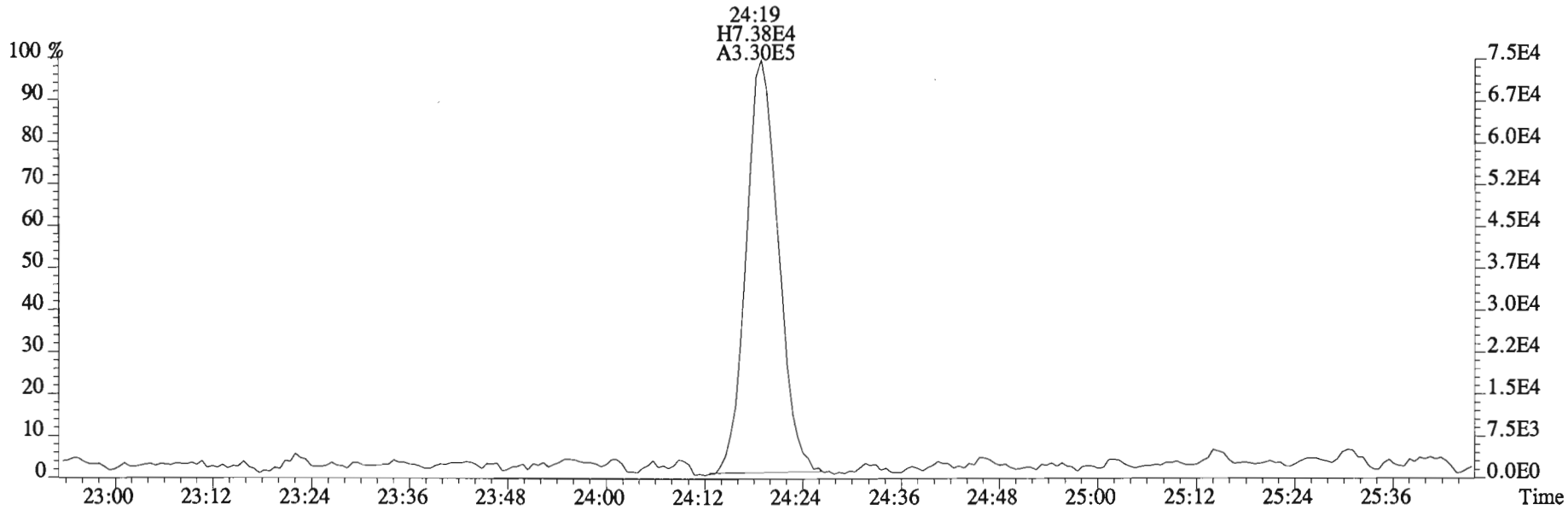


268.0016 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,28380.0,0.00%,F,F)

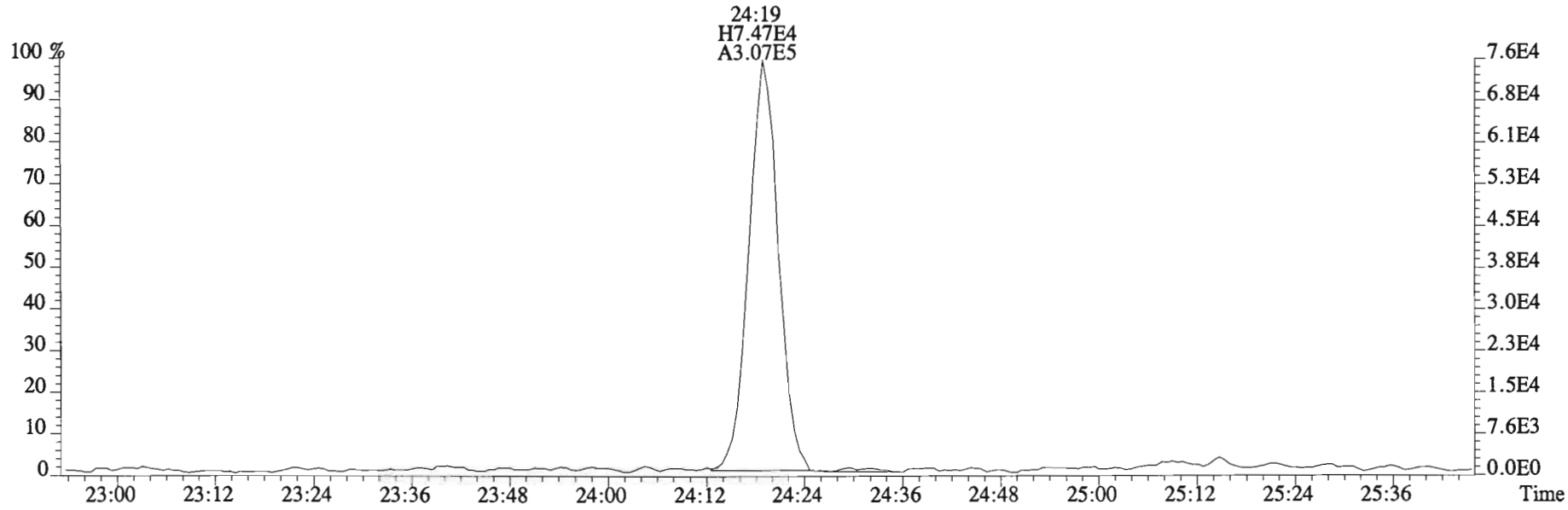


269.9986 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21108.0,0.00%,F,F)

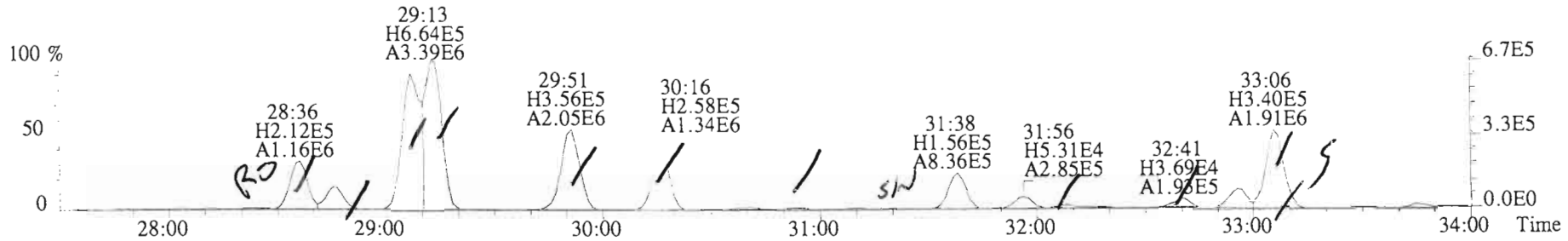
File:150127E1 #1-758 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
255.9613 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3152.0,0.00%,F,F)



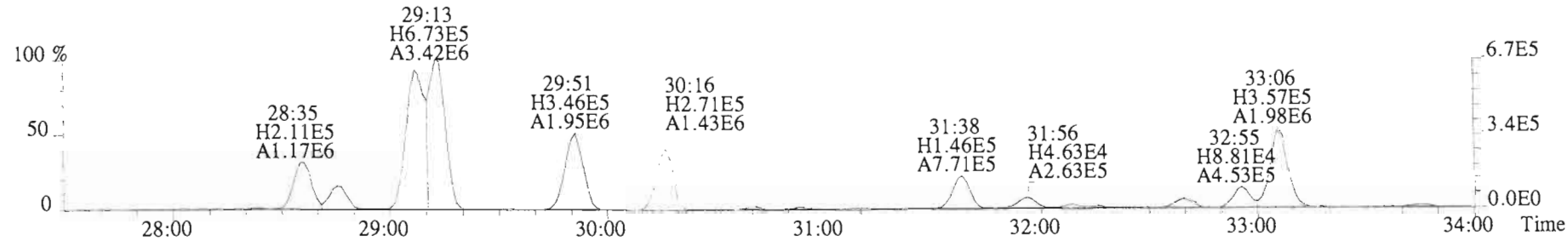
257.9584 S:8 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1564.0,0.00%,F,F)



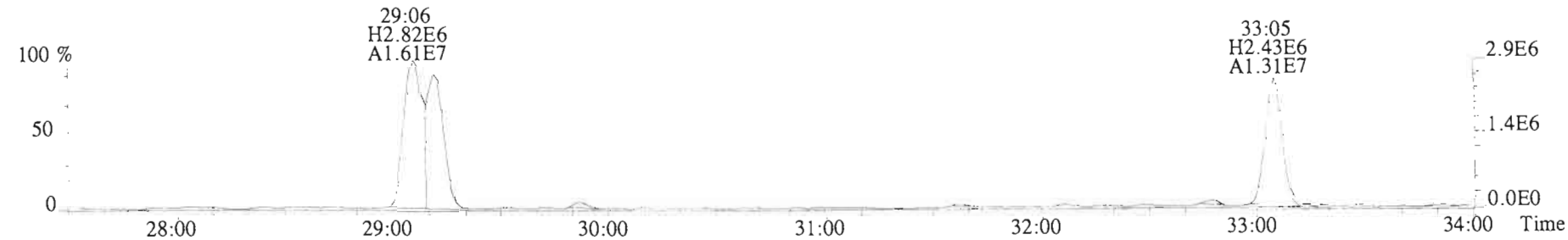
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
255.9613 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2712.0,0.00%,F,F)



257.9584 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2148.0,0.00%,F,F)

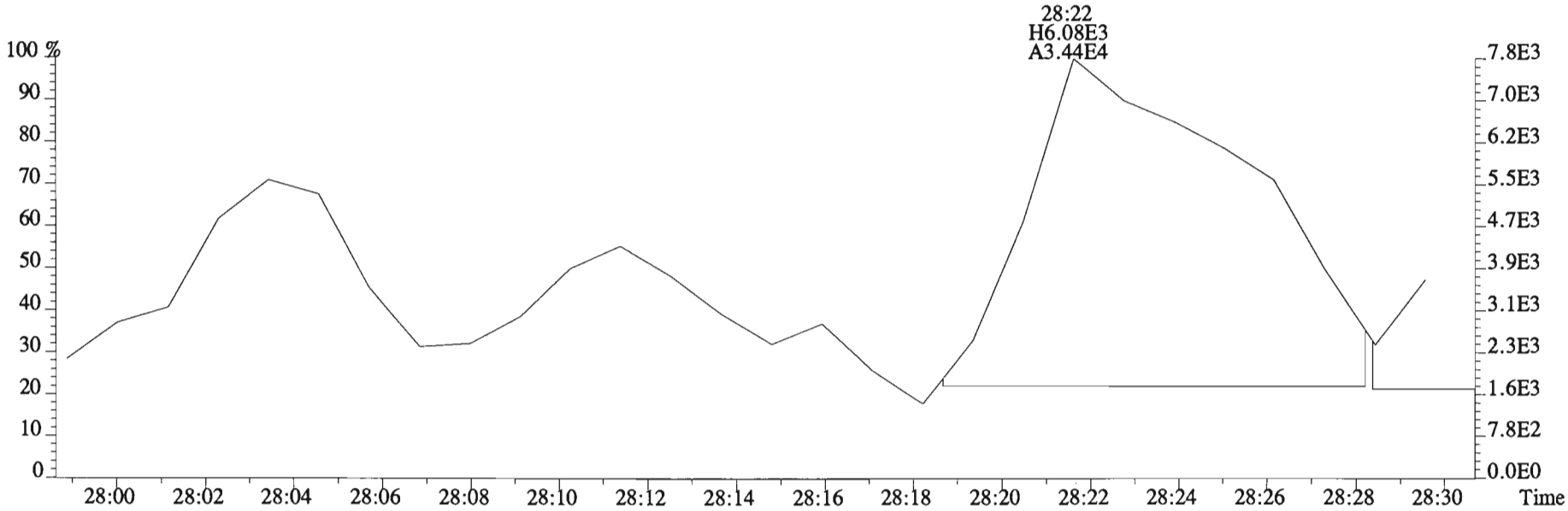


268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,44180.0,0.00%,F,F)

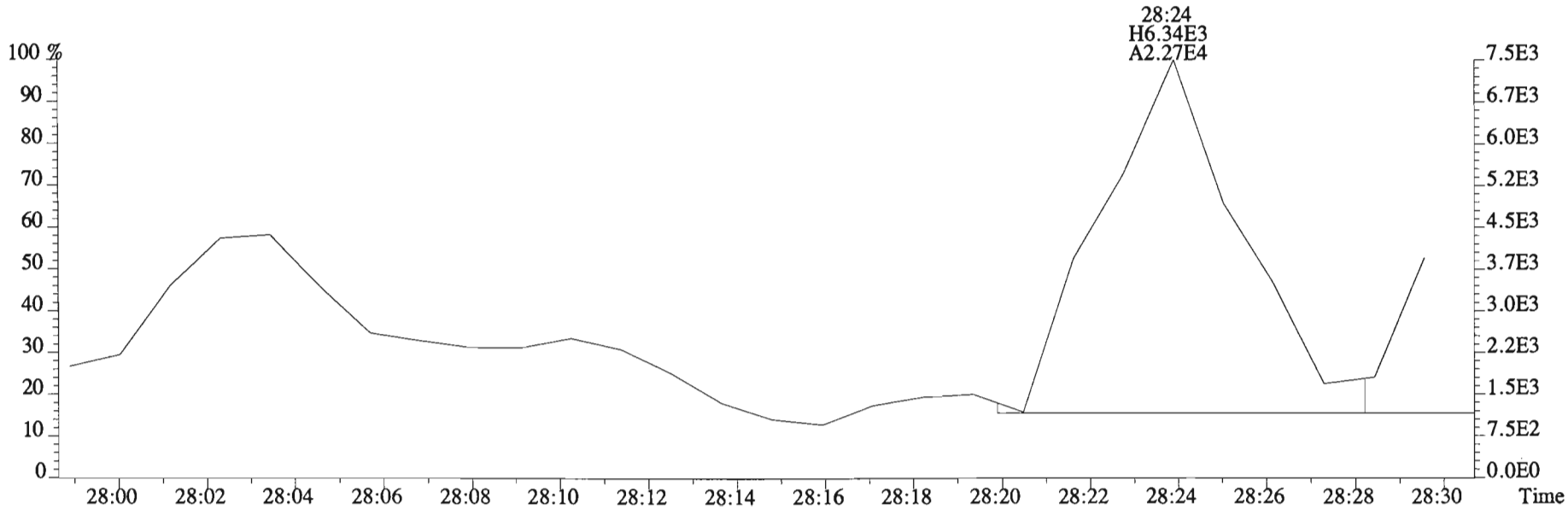


269.9986 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,39208.0,0.00%,F,F)

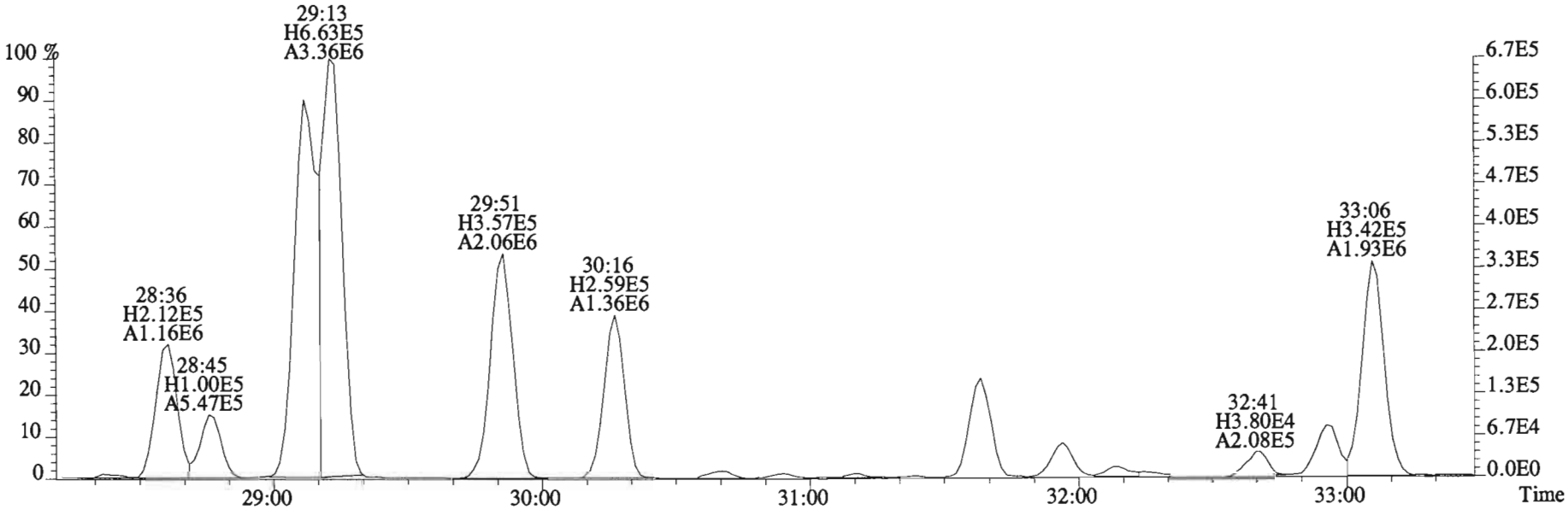
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
255.9613 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2712.0,0.00%,F,F)



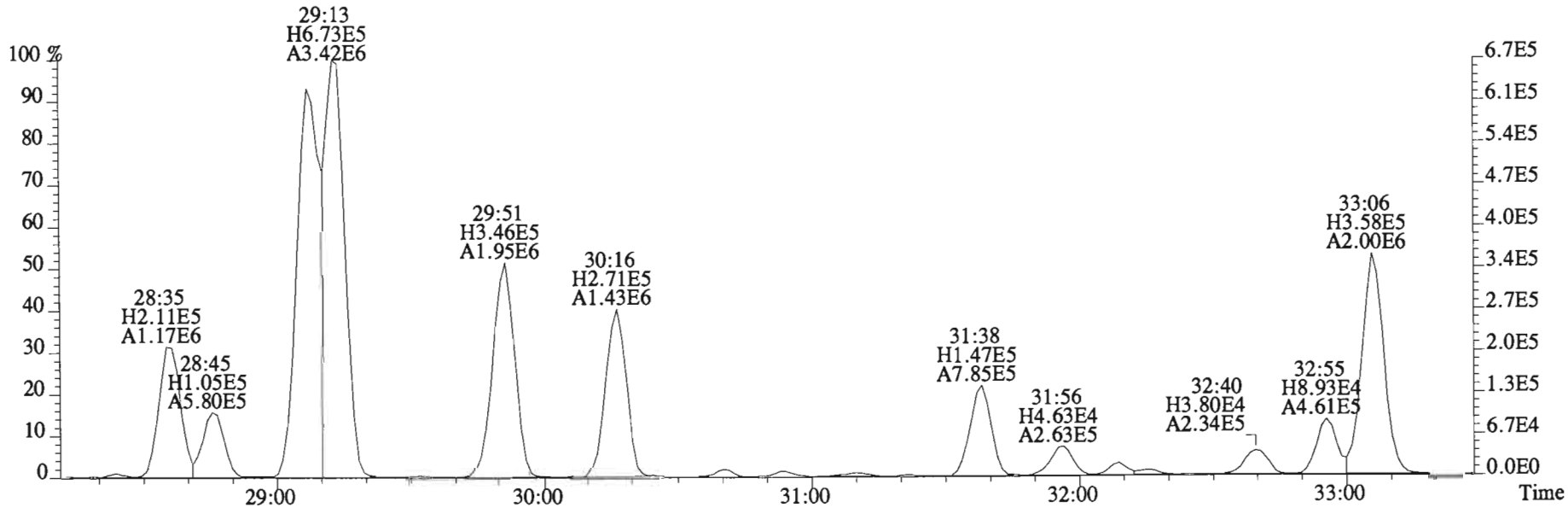
257.9584 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2148.0,0.00%,F,F)



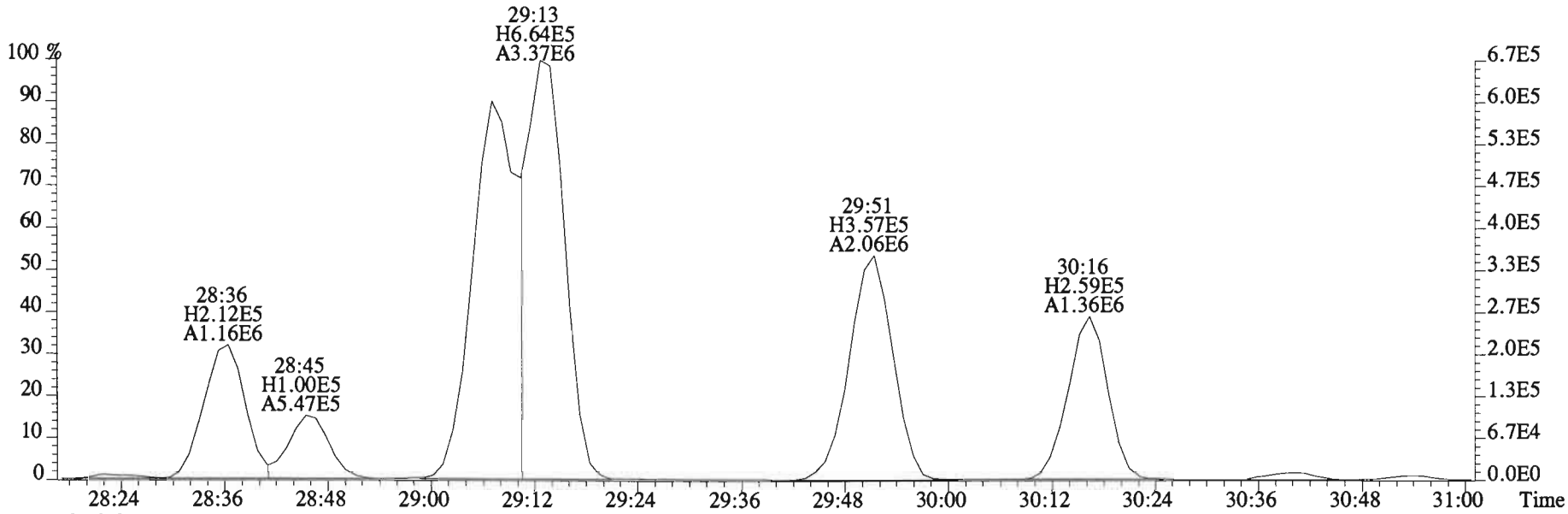
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
255.9613 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2712.0,0.00%,F,F)



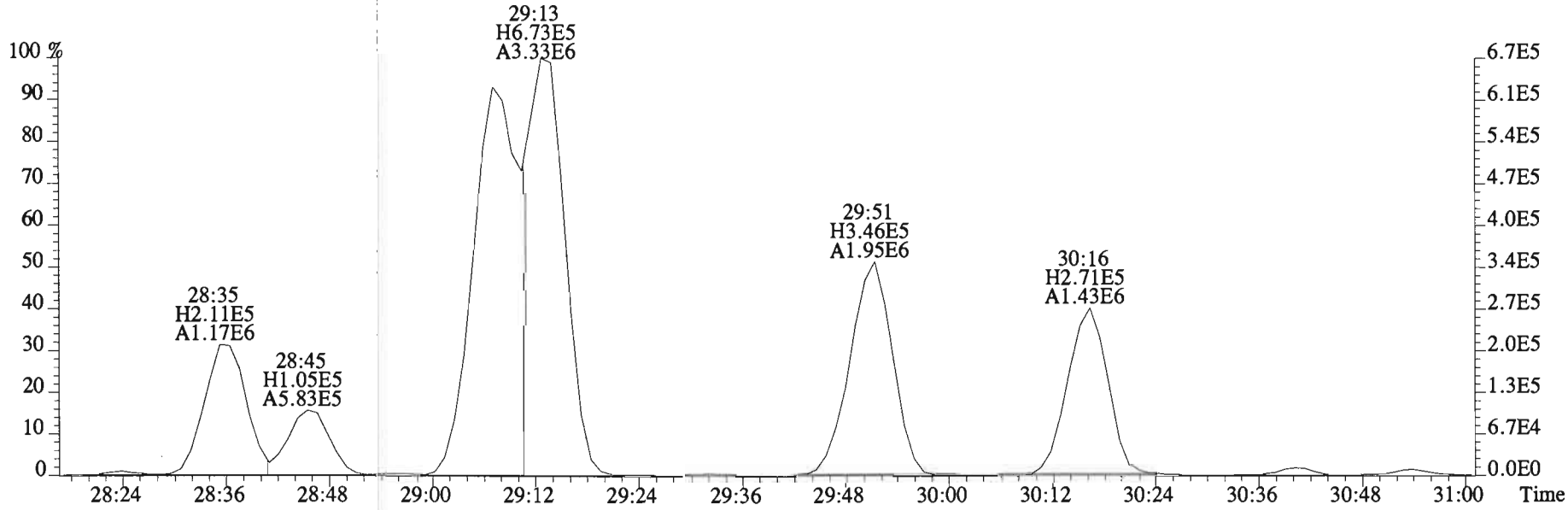
257.9584 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2148.0,0.00%,F,F)



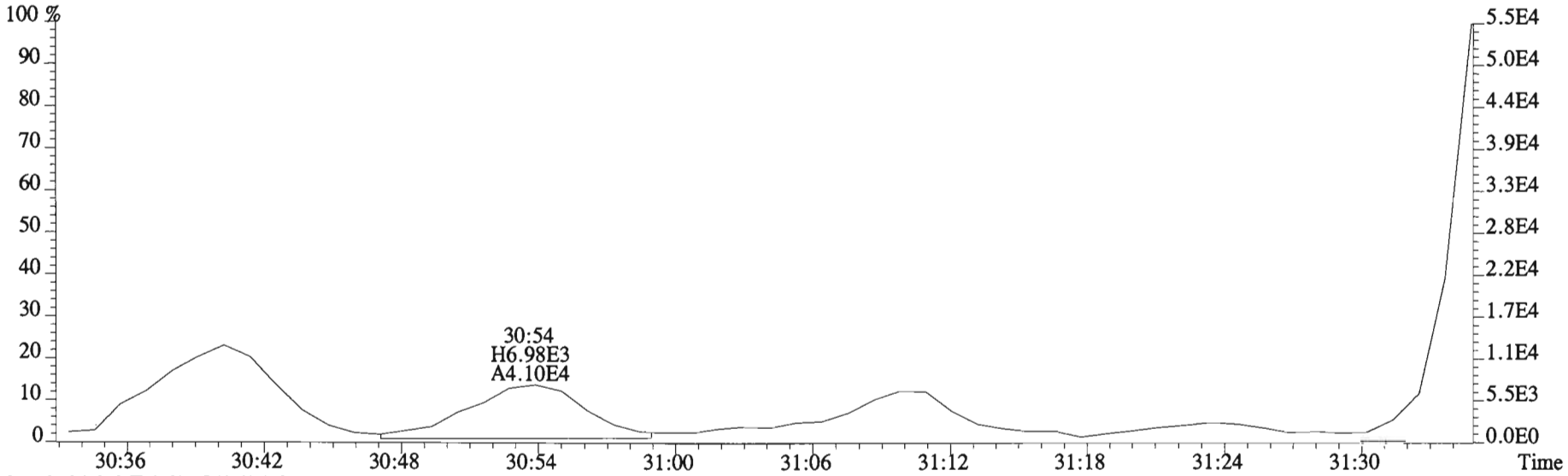
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
255.9613 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2712.0,0.00%,F,F)



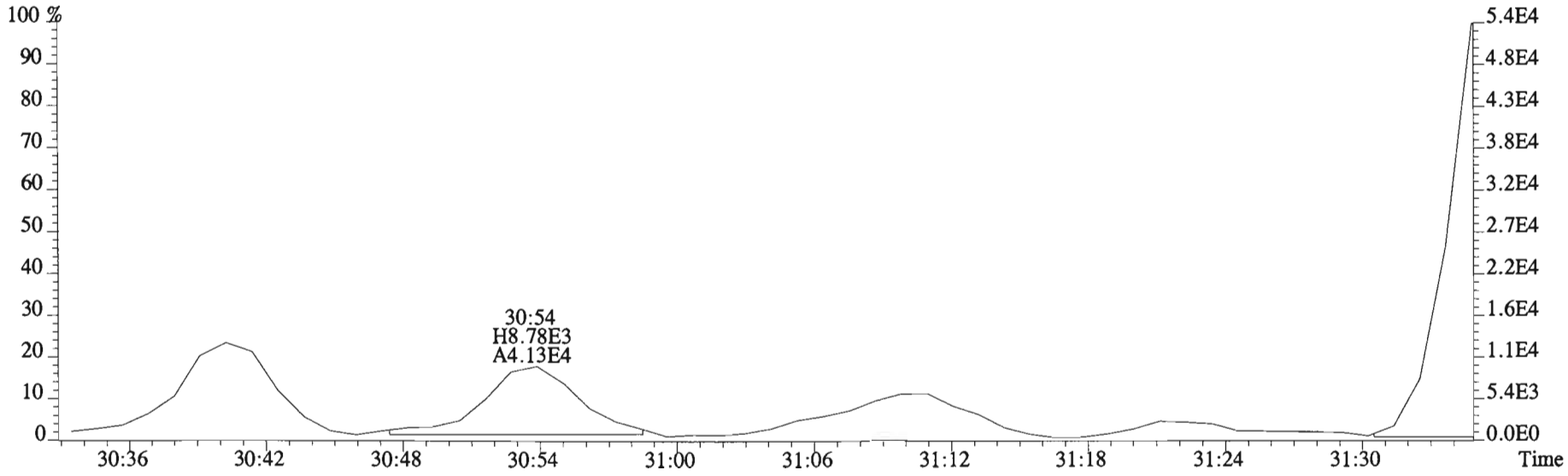
257.9584 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2148.0,0.00%,F,F)



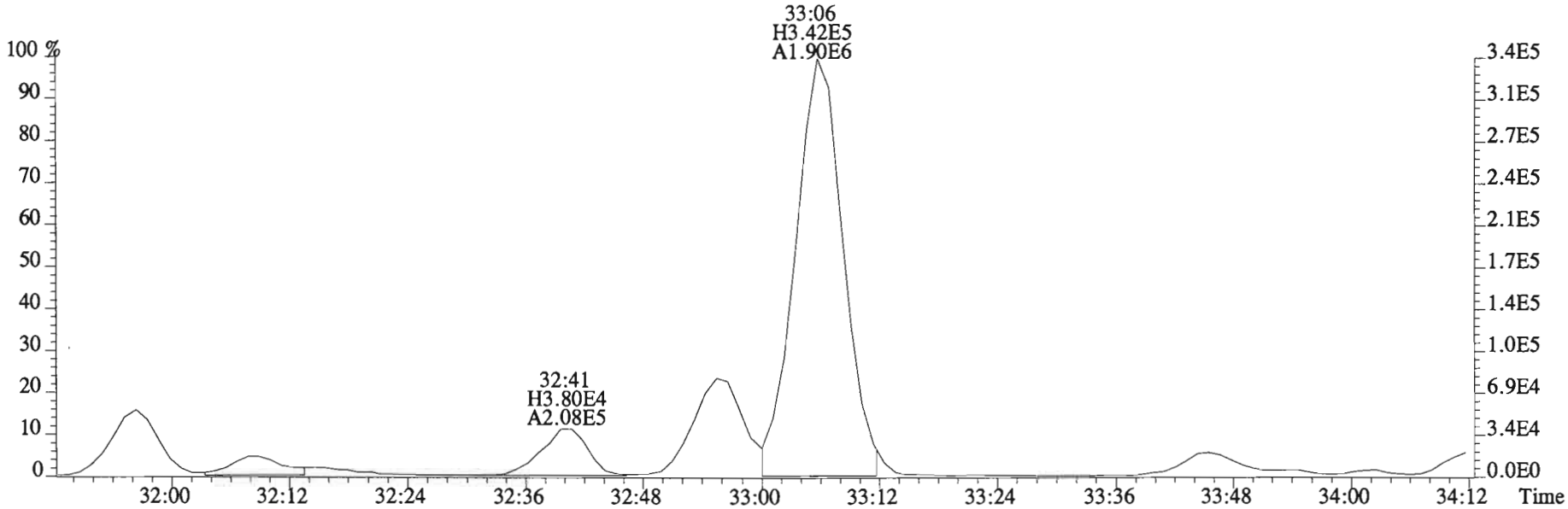
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
255.9613 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



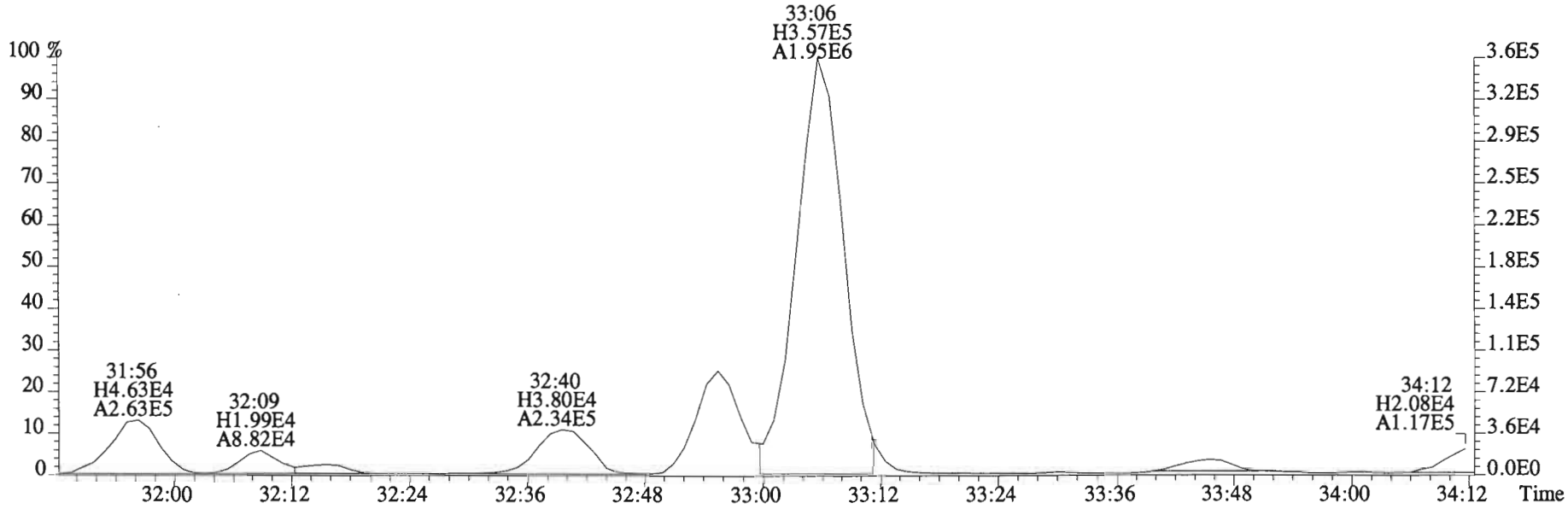
257.9584 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0)



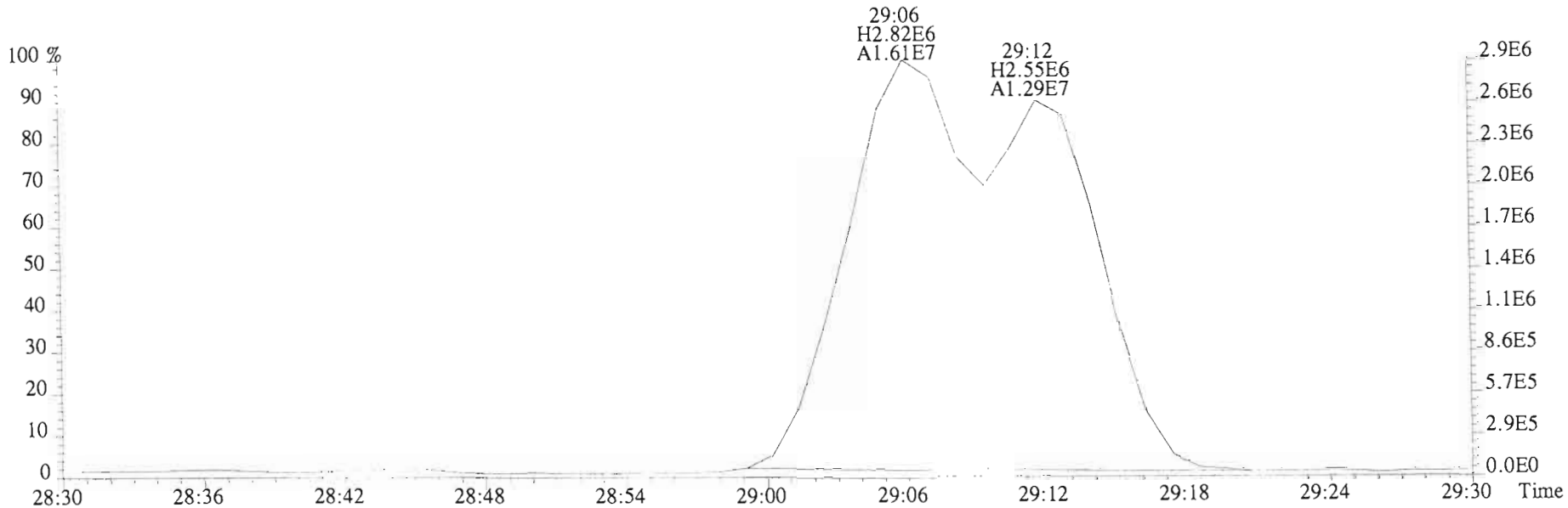
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
255.9613 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2712.0,0.00%,F,F)



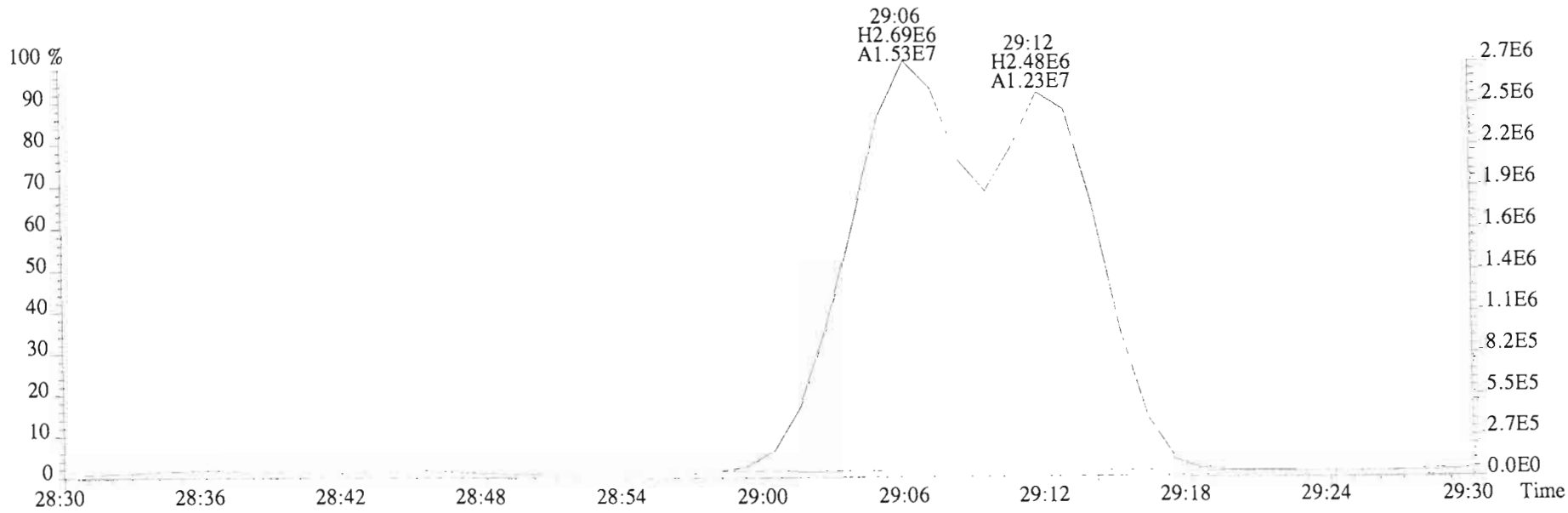
257.9584 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2148.0,0.00%,F,F)



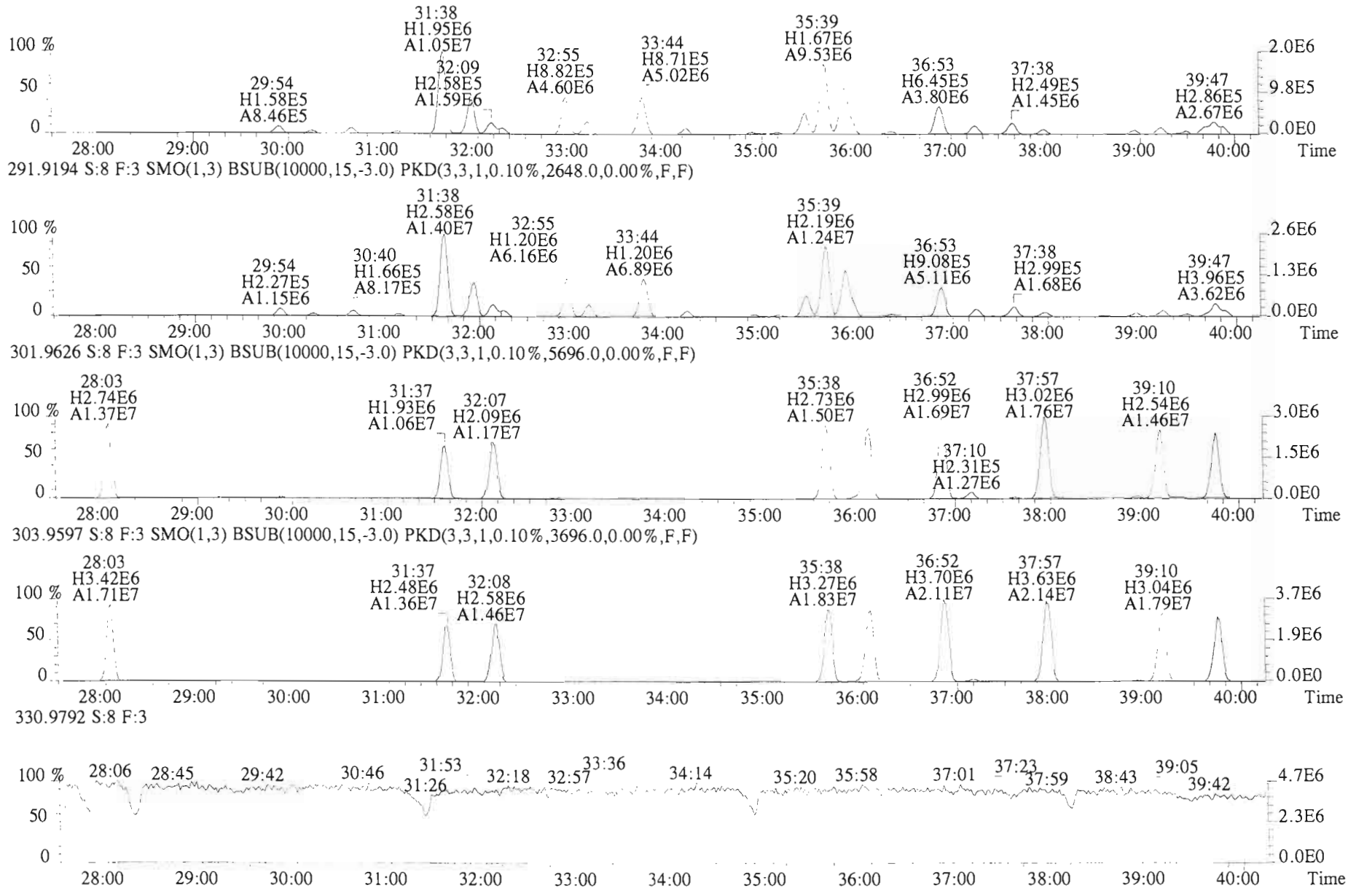
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
268.0016 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,44180.0,0.00%,F,F)



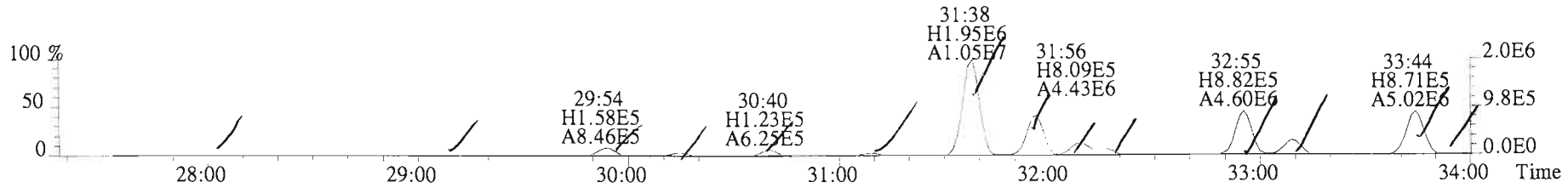
269.9986 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,39208.0,0.00%,F,F)



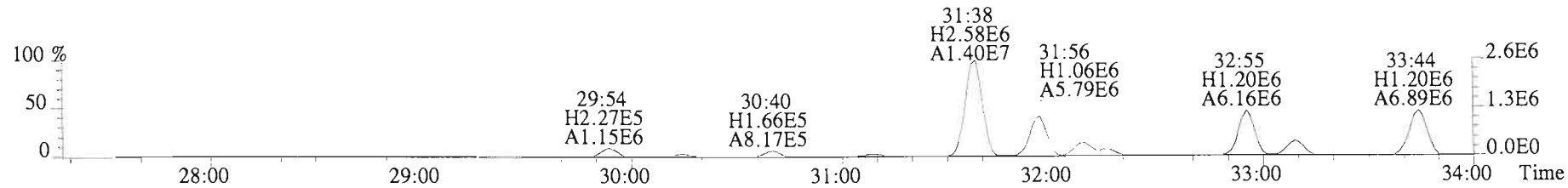
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1



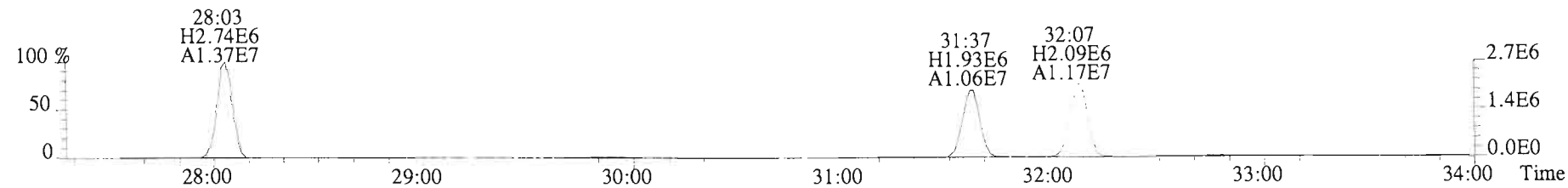
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2432.0,0.00%,F,F)



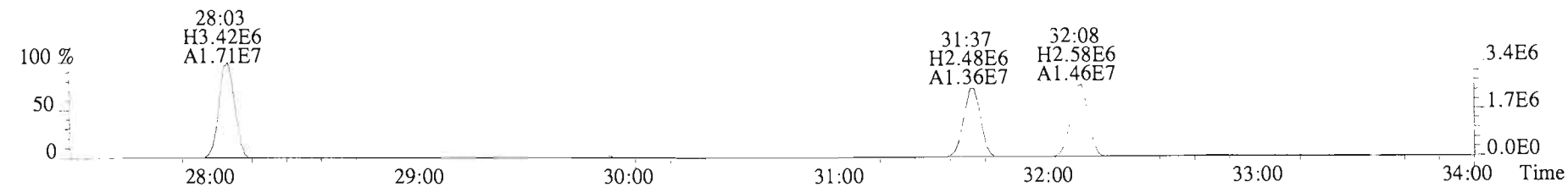
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2648.0,0.00%,F,F)



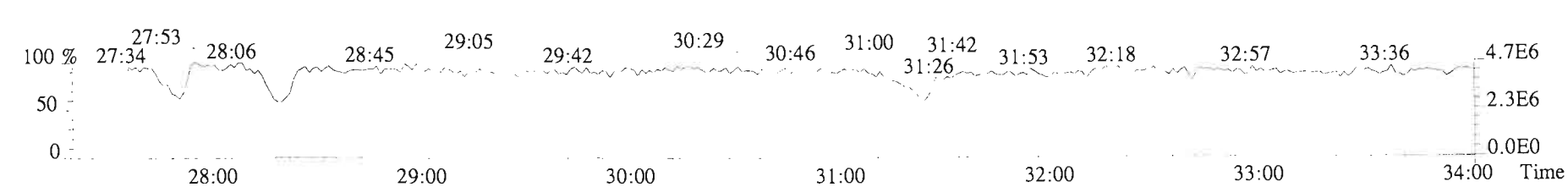
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5696.0,0.00%,F,F)



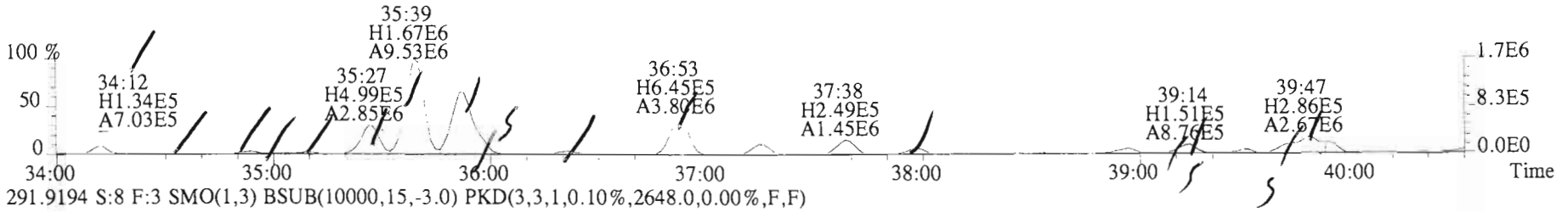
303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3696.0,0.00%,F,F)



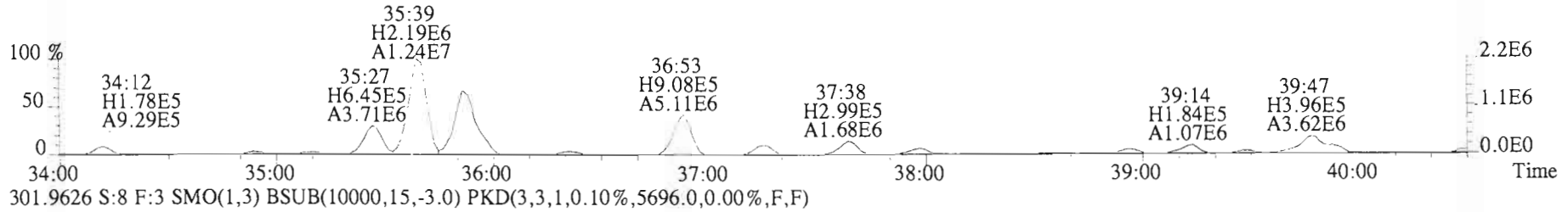
330.9792 S:8 F:3



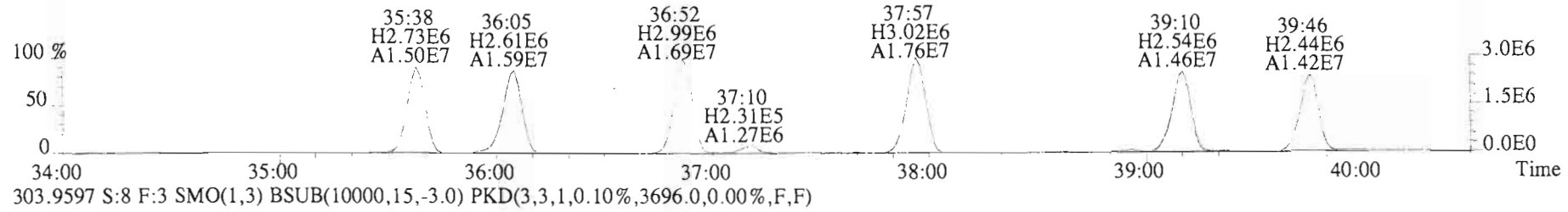
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2432.0,0.00%,F,F)



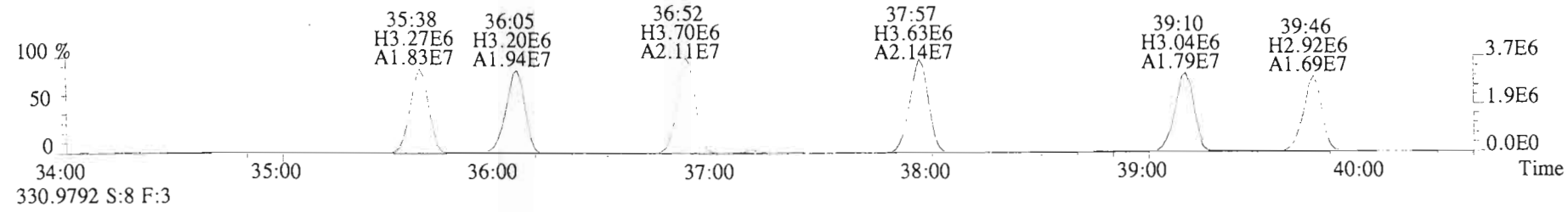
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2648.0,0.00%,F,F)



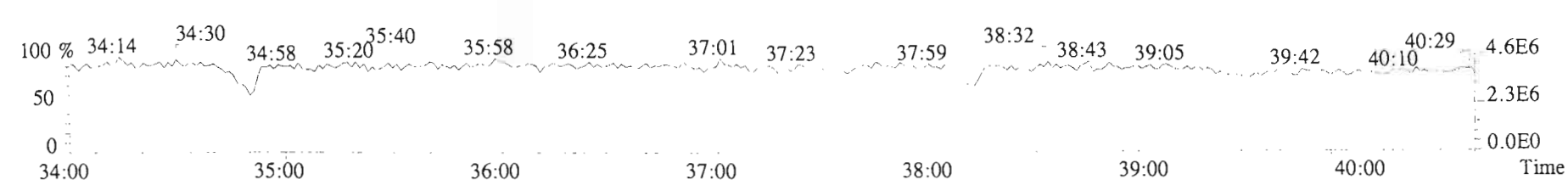
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5696.0,0.00%,F,F)



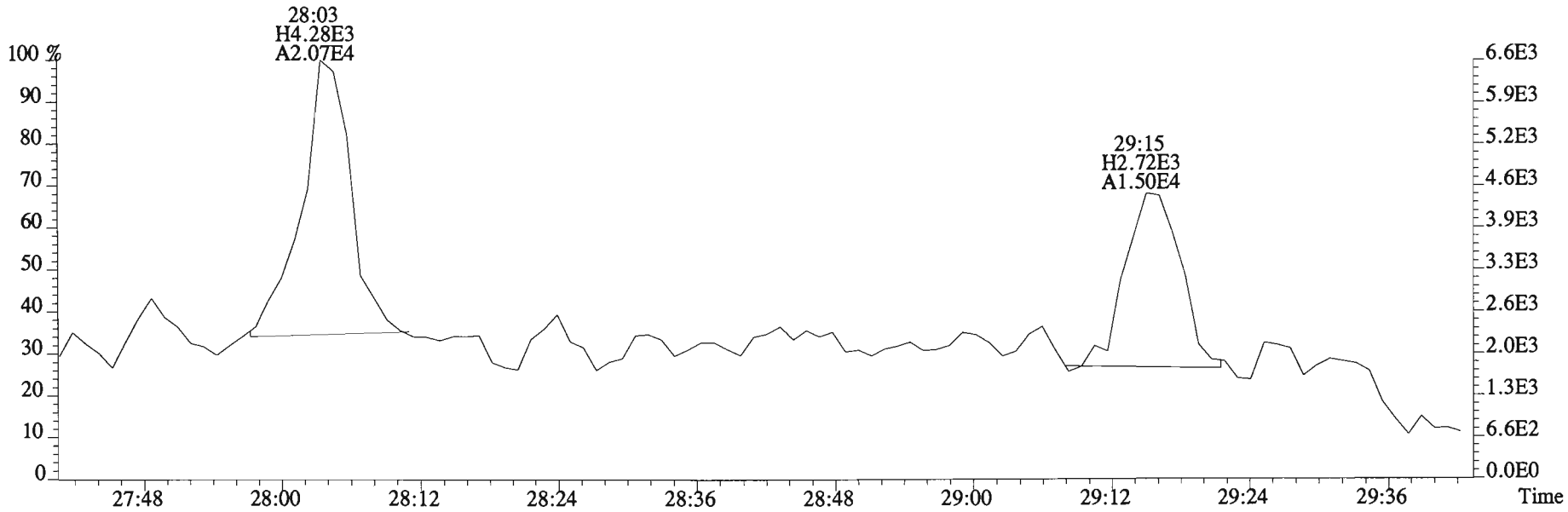
303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3696.0,0.00%,F,F)



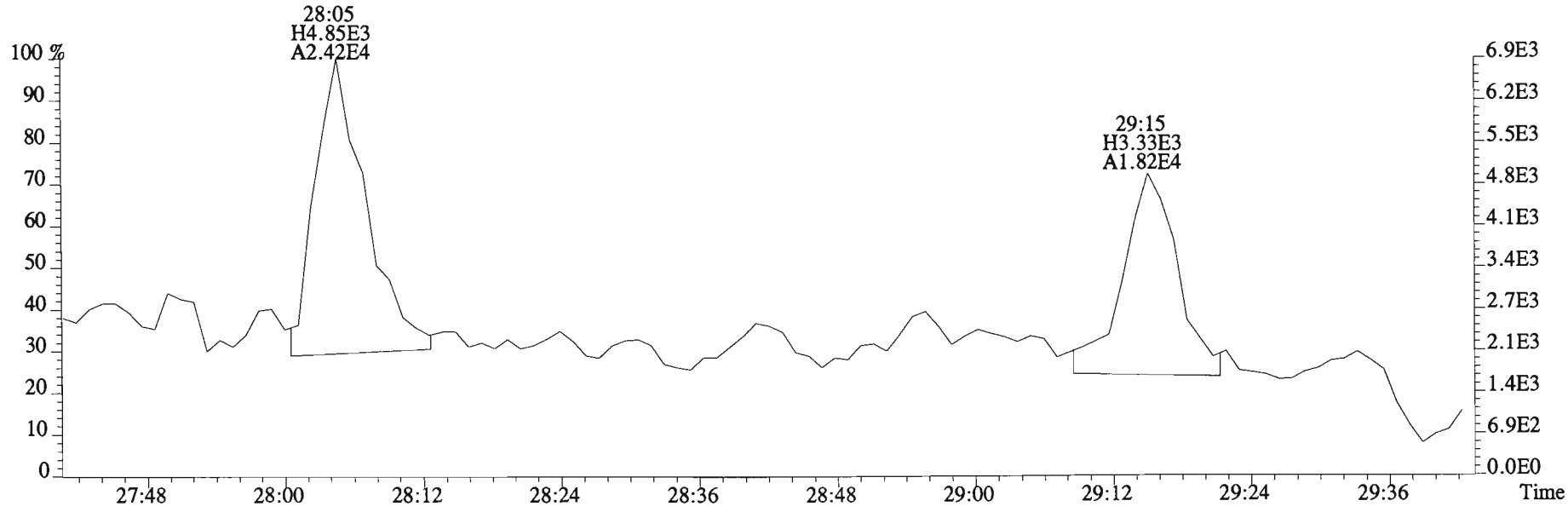
330.9792 S:8 F:3



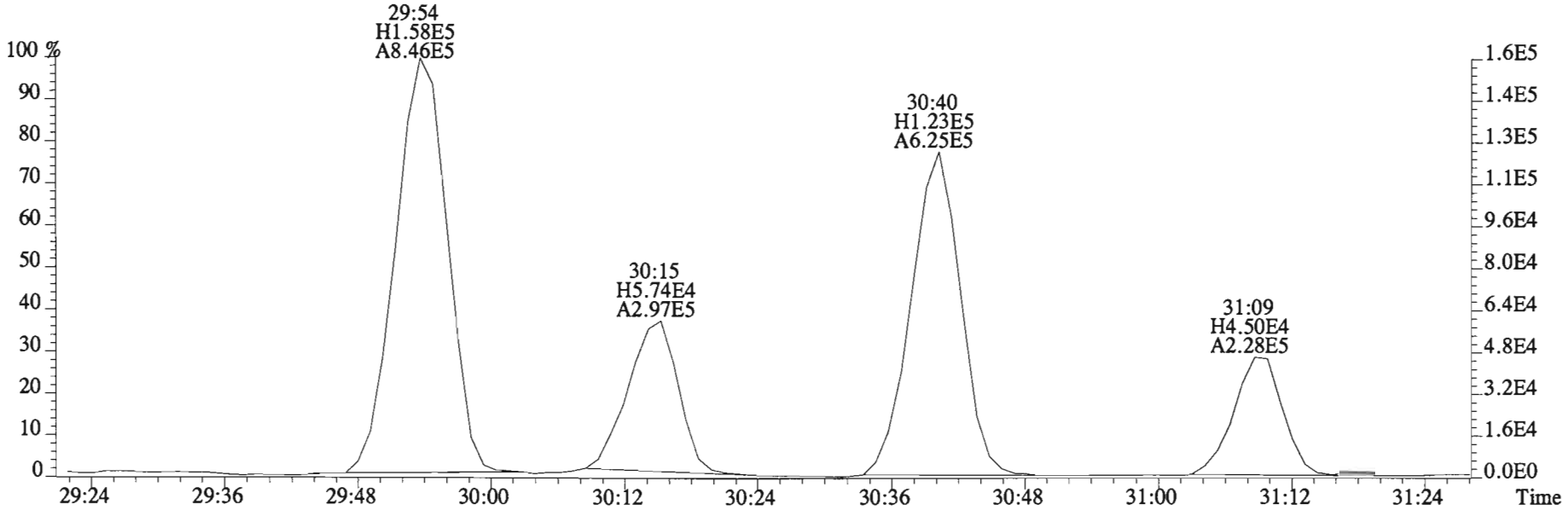
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2432.0,0.00%,F,F)



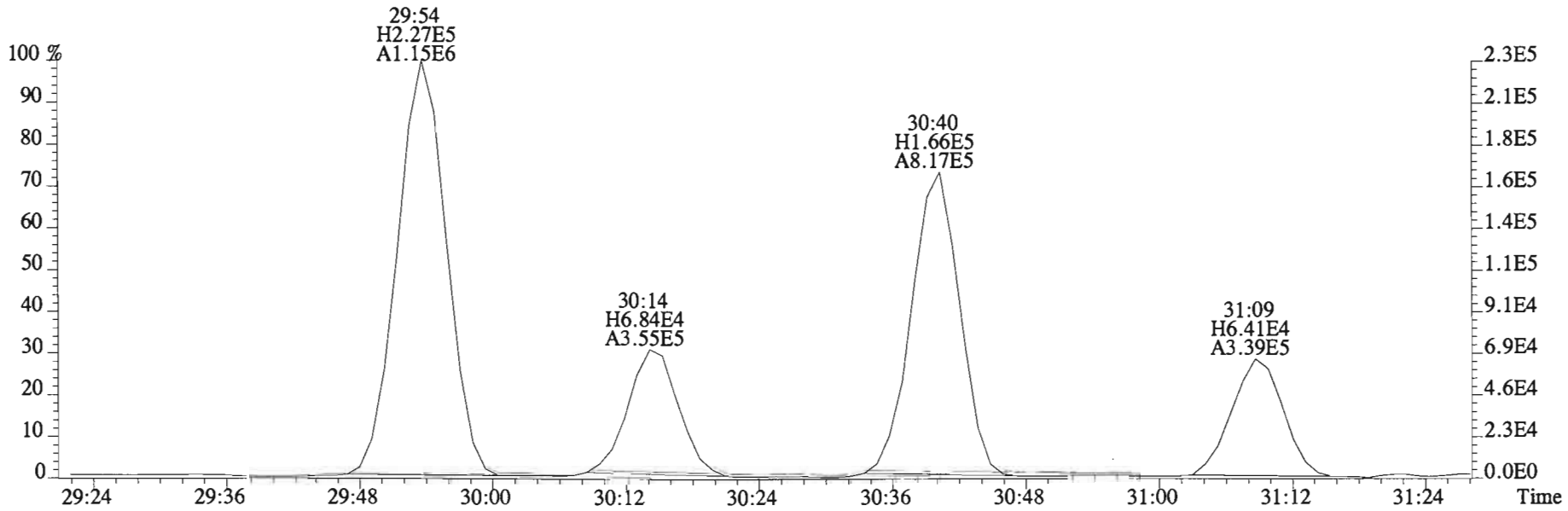
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2648.0,0.00%,F,F)



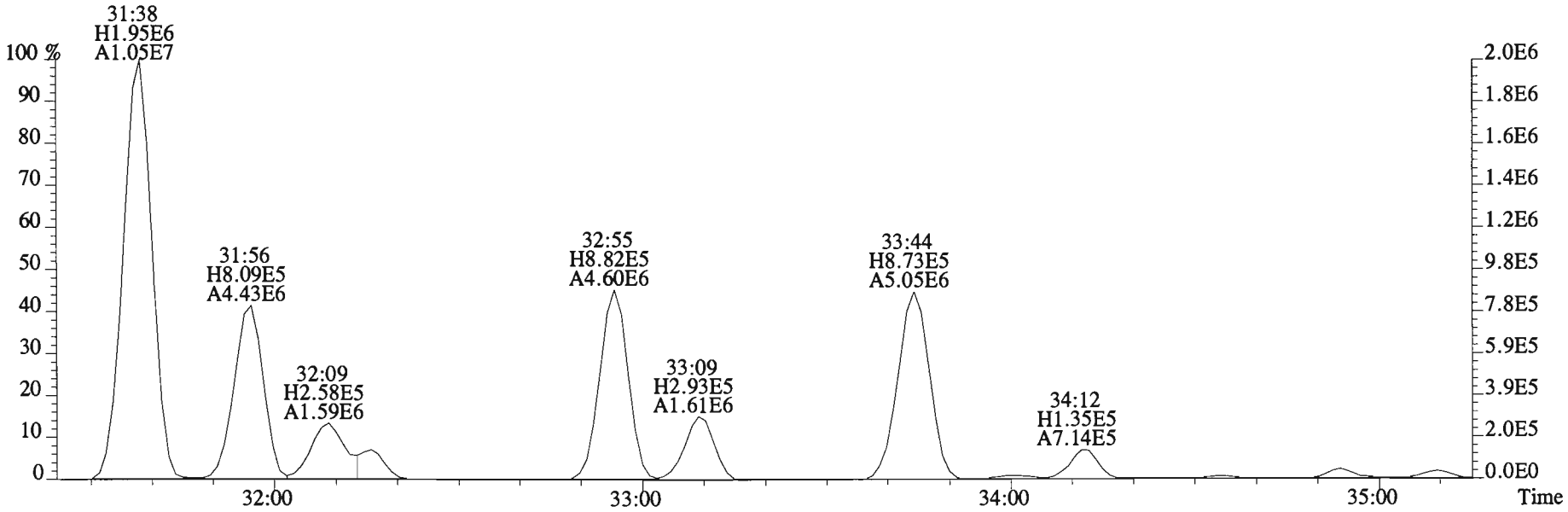
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2432.0,0.00%,F,F)



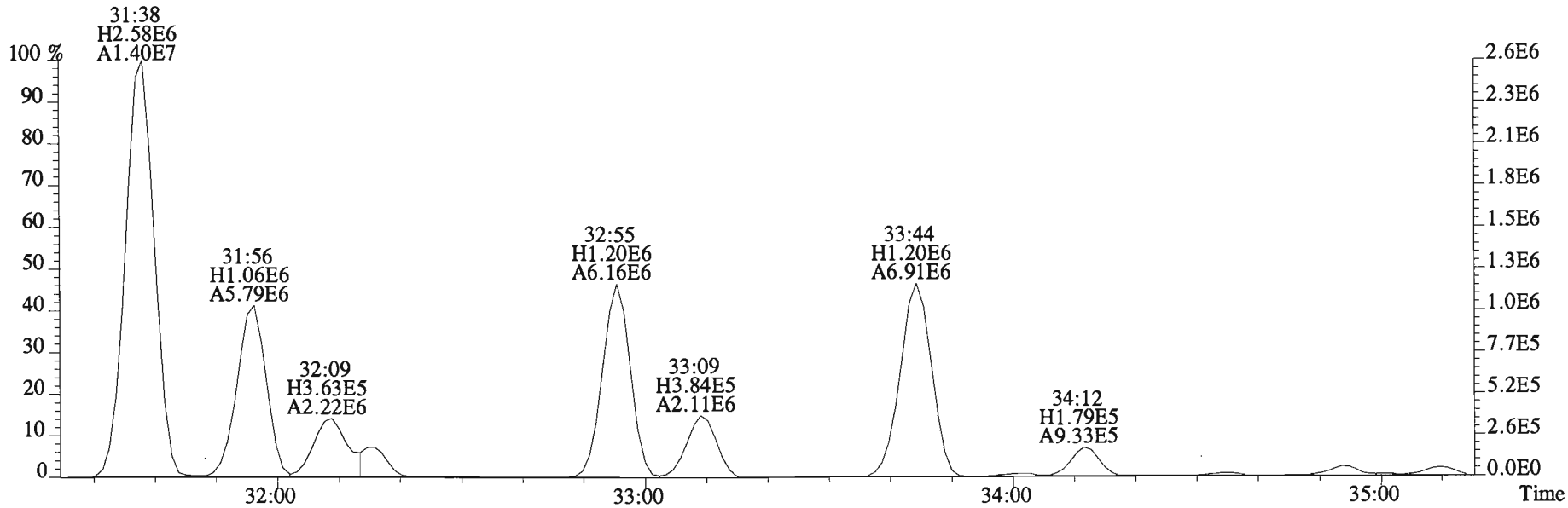
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2648.0,0.00%,F,F)



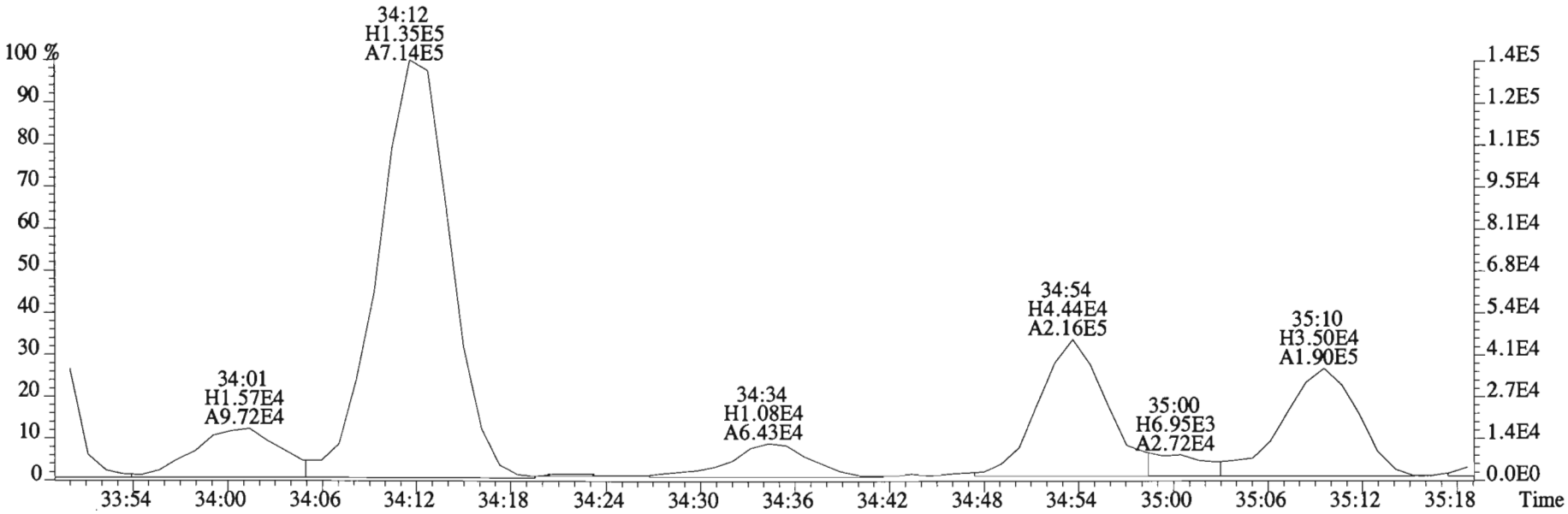
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2432.0,0.00%,F,F)



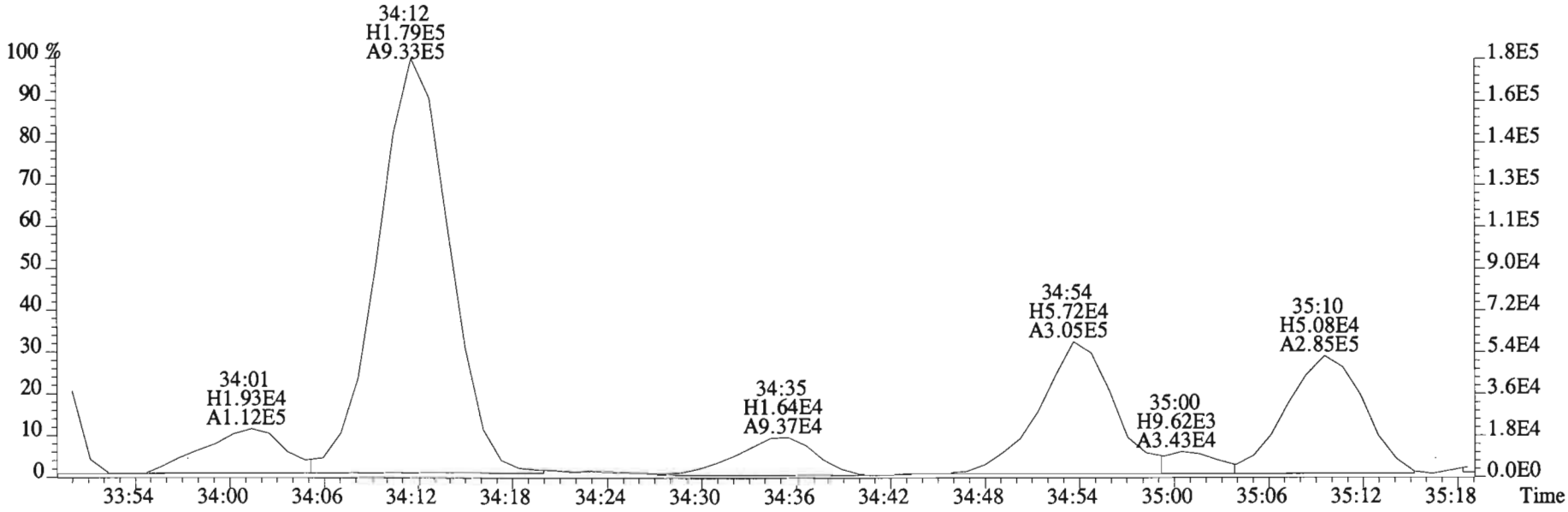
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2648.0,0.00%,F,F)



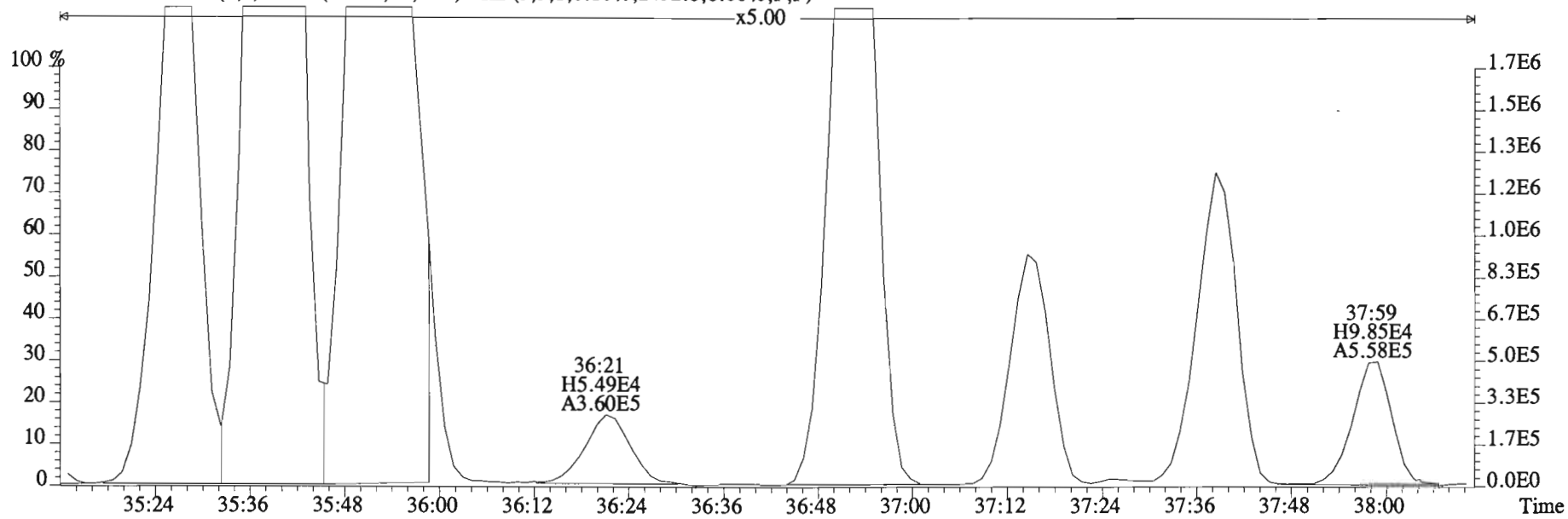
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2432.0,0.00%,F,F)



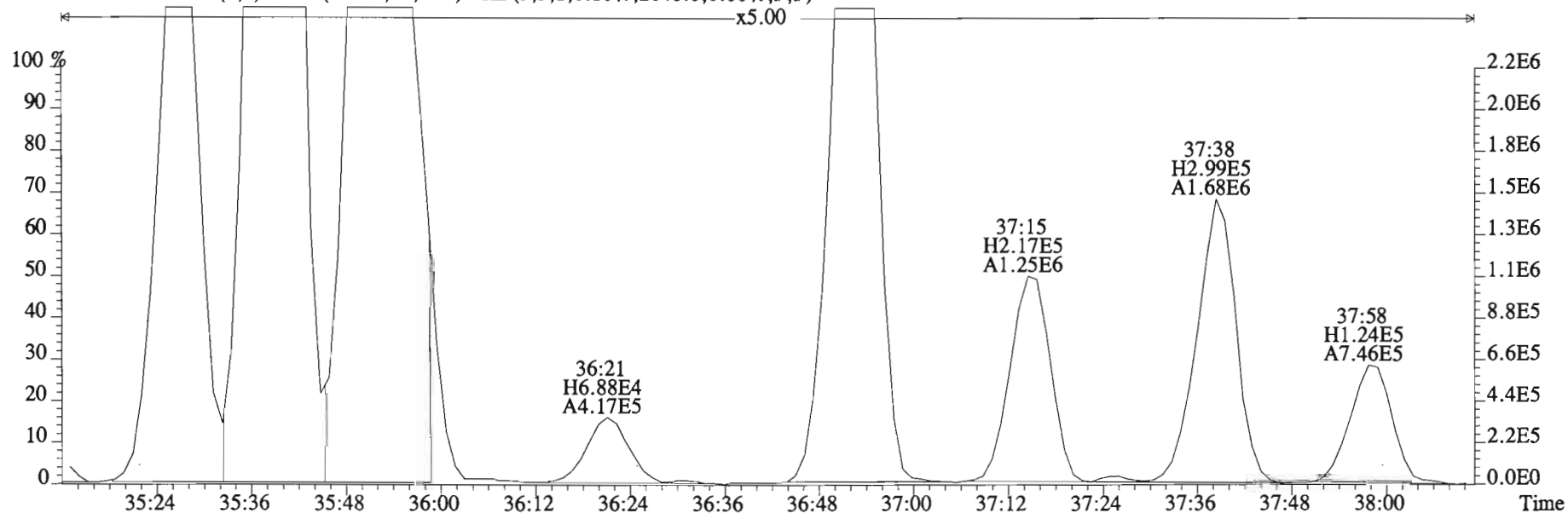
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2648.0,0.00%,F,F)



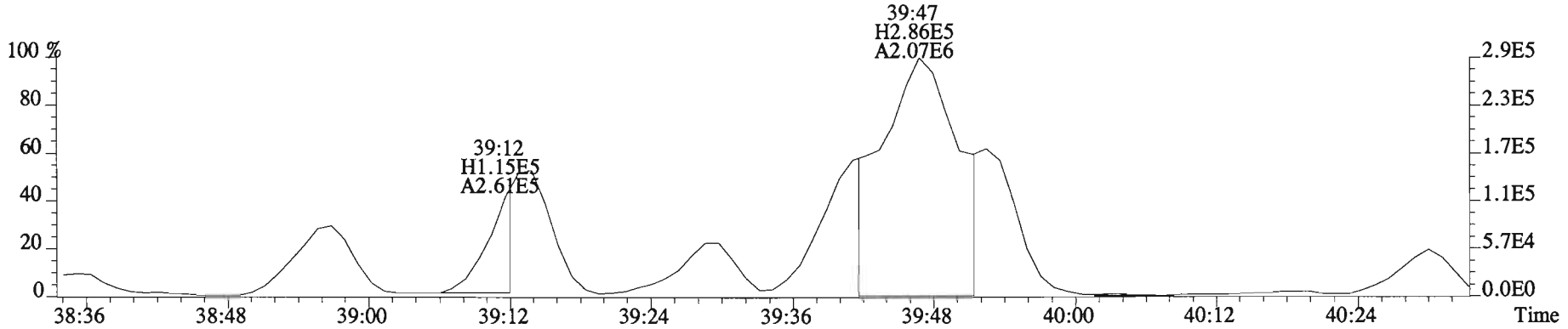
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2432.0,0.00%,F,F)



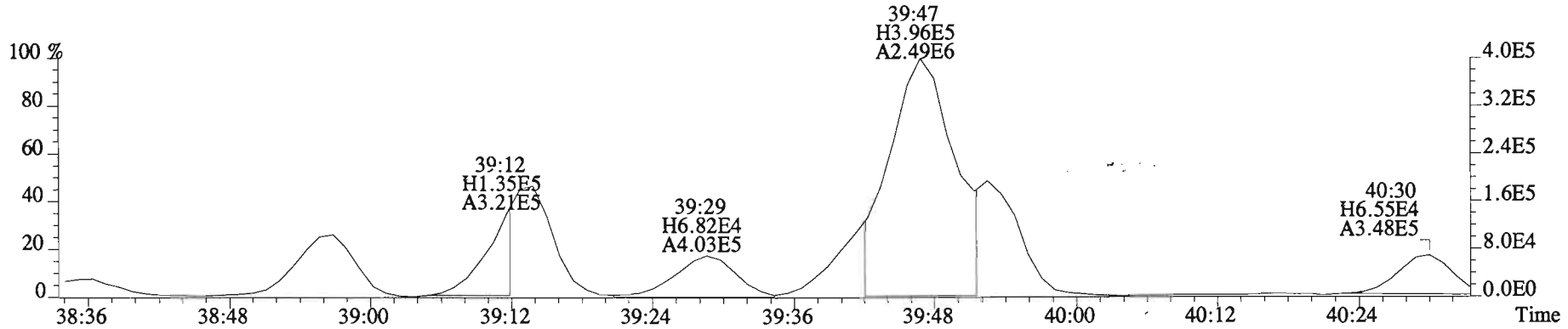
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2648.0,0.00%,F,F)



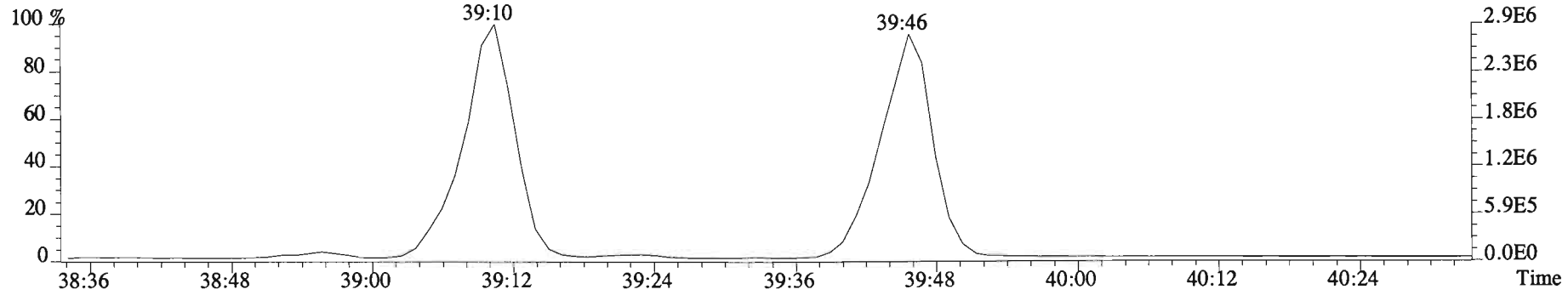
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
289.9224 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2432.0,0.00%,F,F)



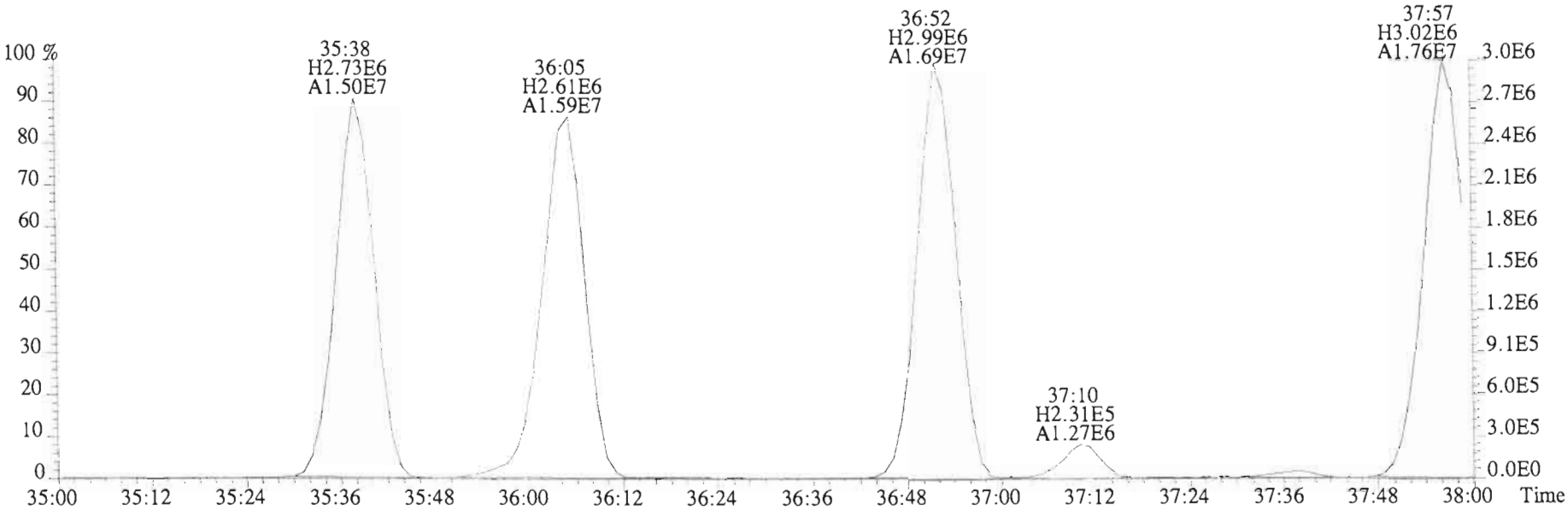
291.9194 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2648.0,0.00%,F,F)



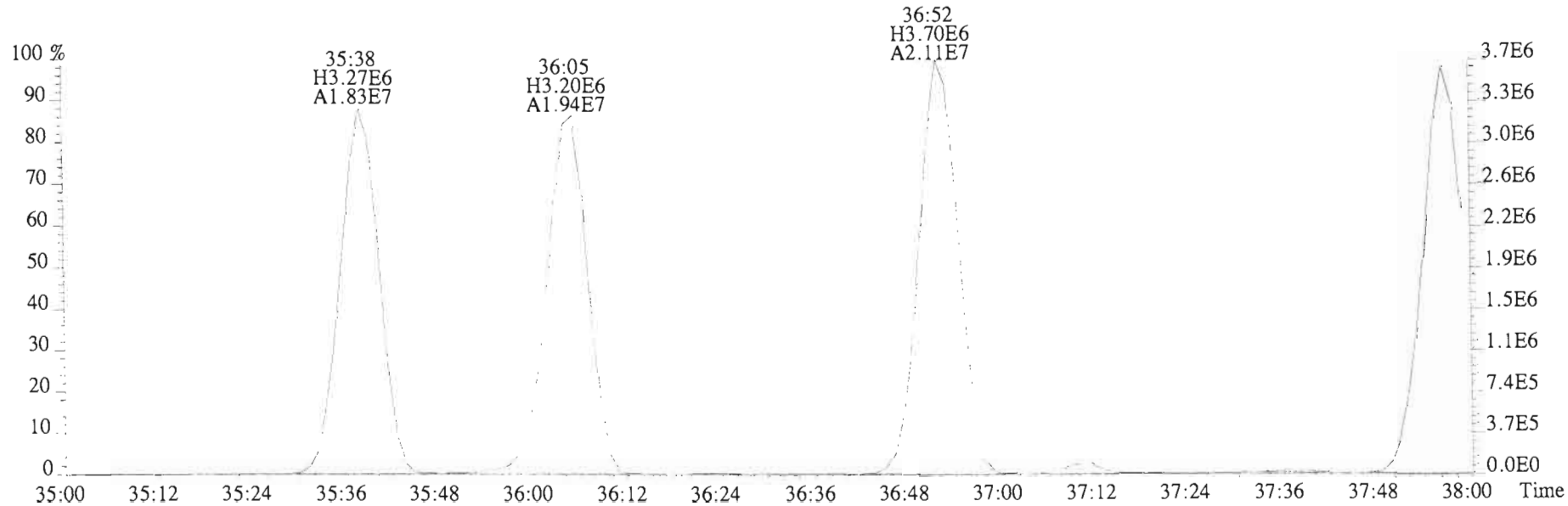
301.9626 S:8 F:3



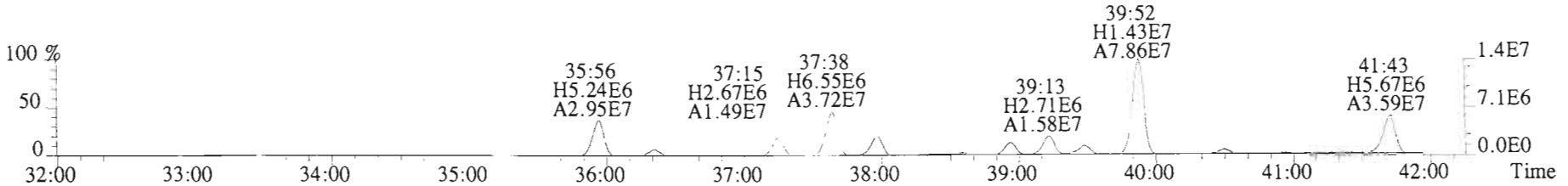
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
301.9626 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5696.0,0.00%,F,F)



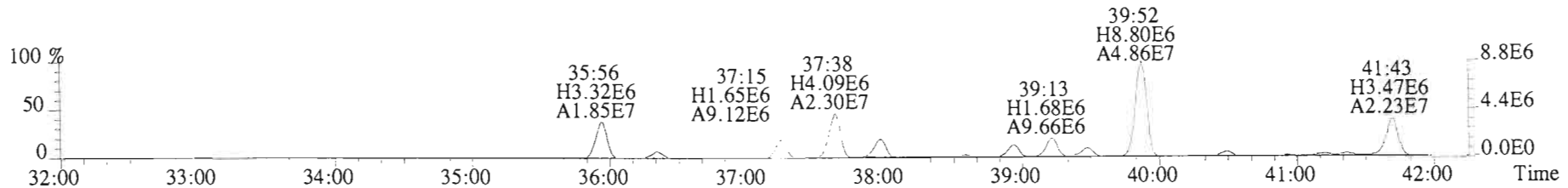
303.9597 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3696.0,0.00%,F,F)



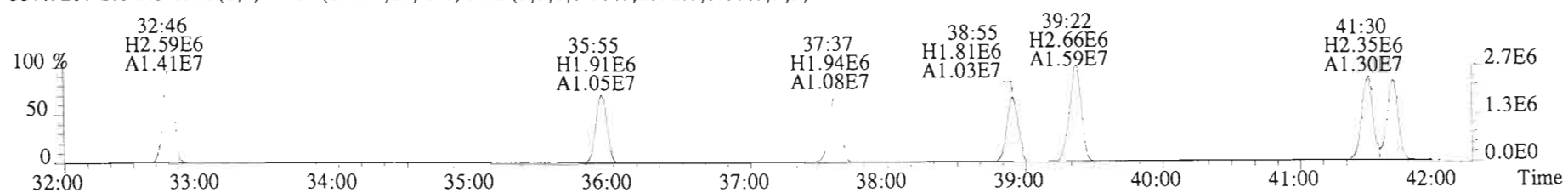
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2588.0,0.00%,F,F)



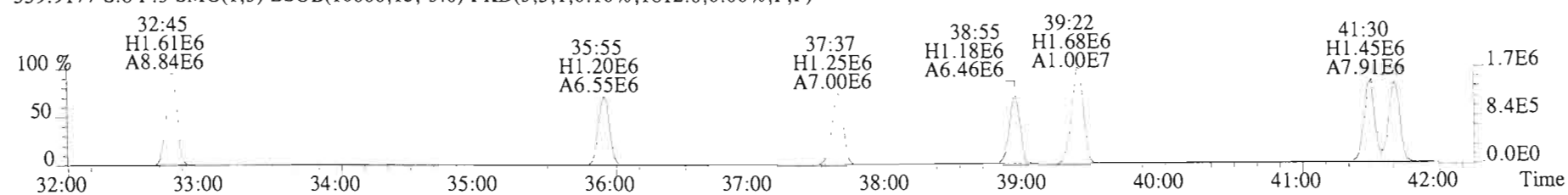
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2168.0,0.00%,F,F)



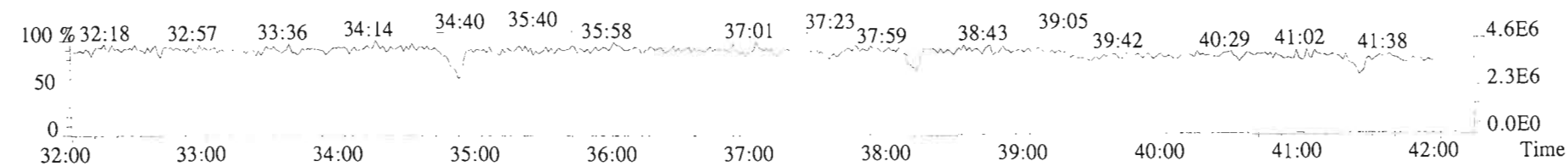
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2092.0,0.00%,F,F)



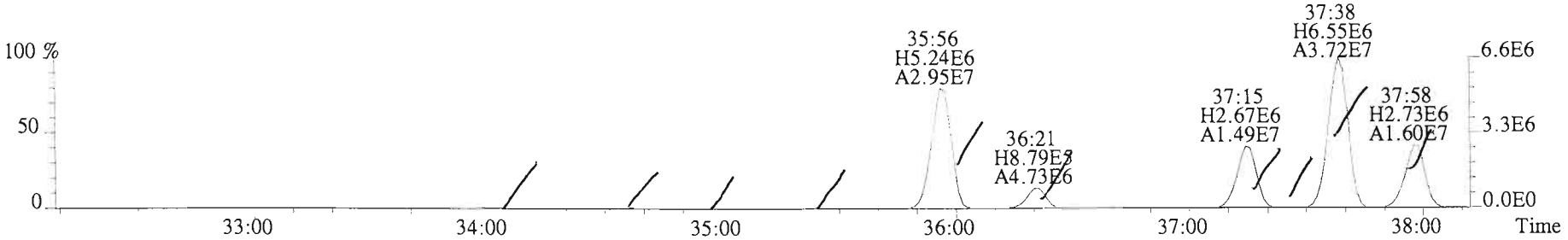
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1812.0,0.00%,F,F)



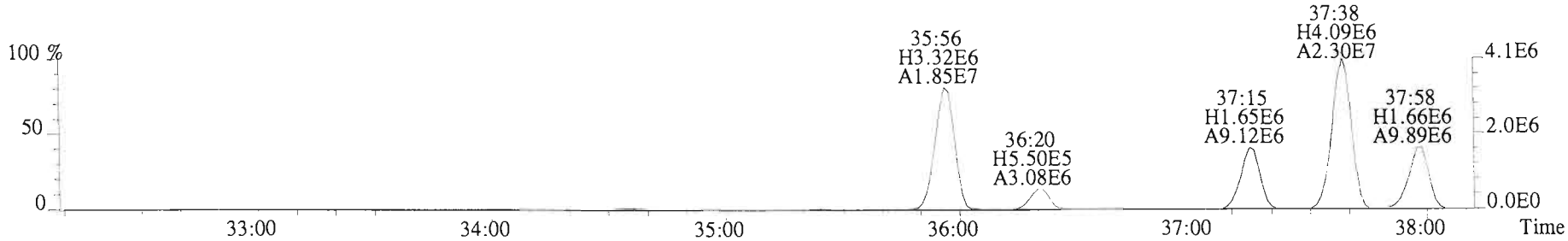
330.9792 S:8 F:3



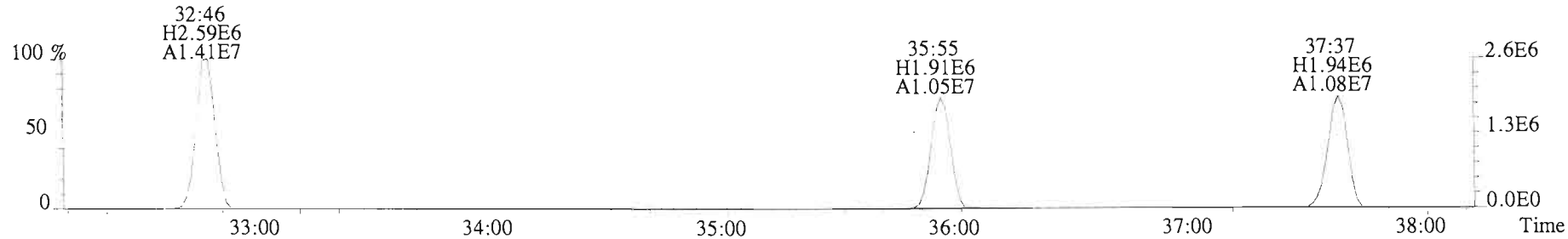
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2588.0,0.00%,F,F)



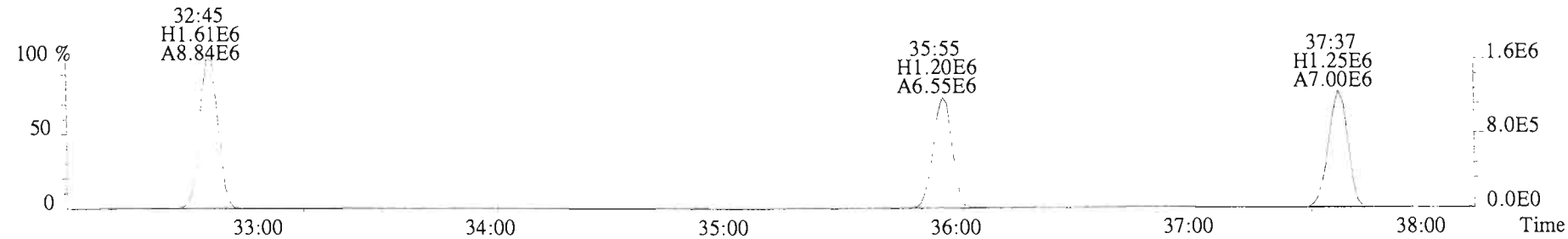
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2168.0,0.00%,F,F)



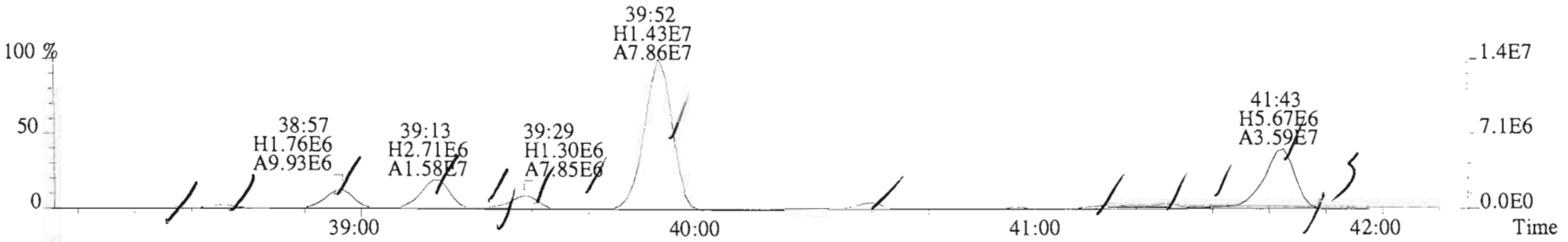
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2092.0,0.00%,F,F)



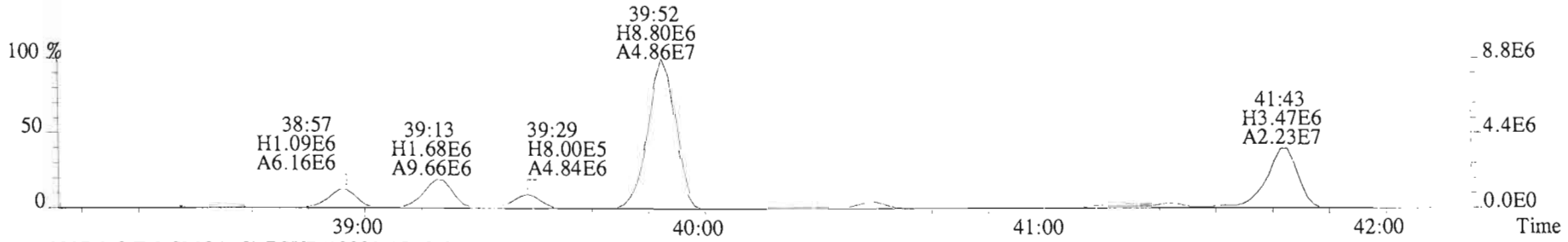
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1812.0,0.00%,F,F)



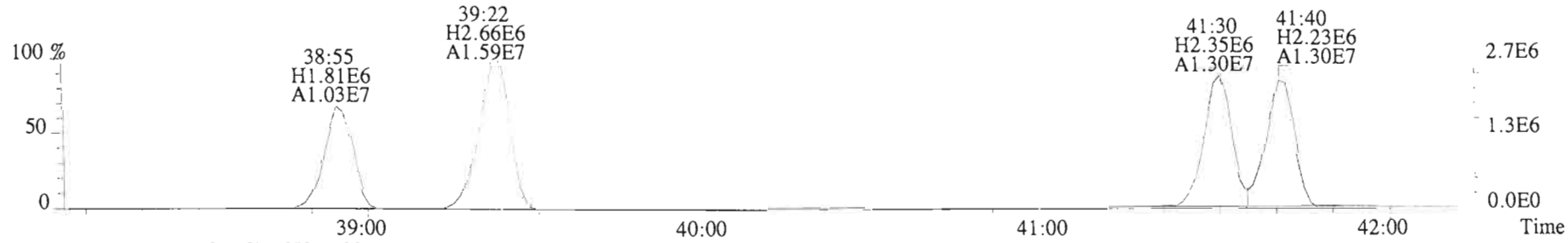
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2588.0,0.00%,F,F)



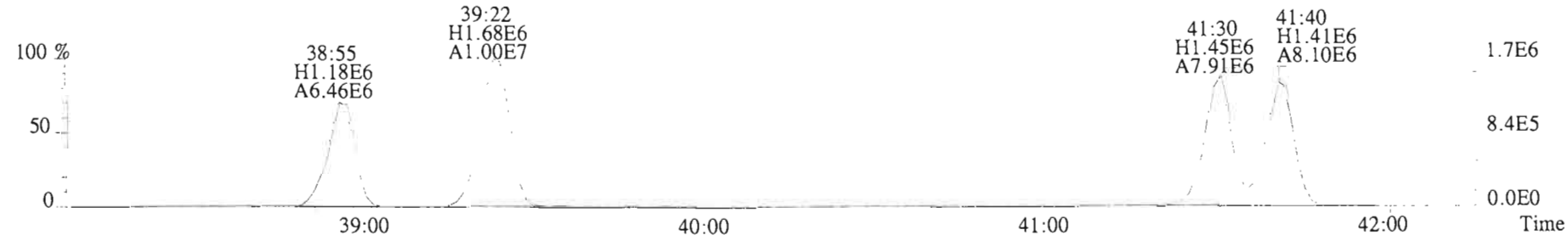
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2168.0,0.00%,F,F)



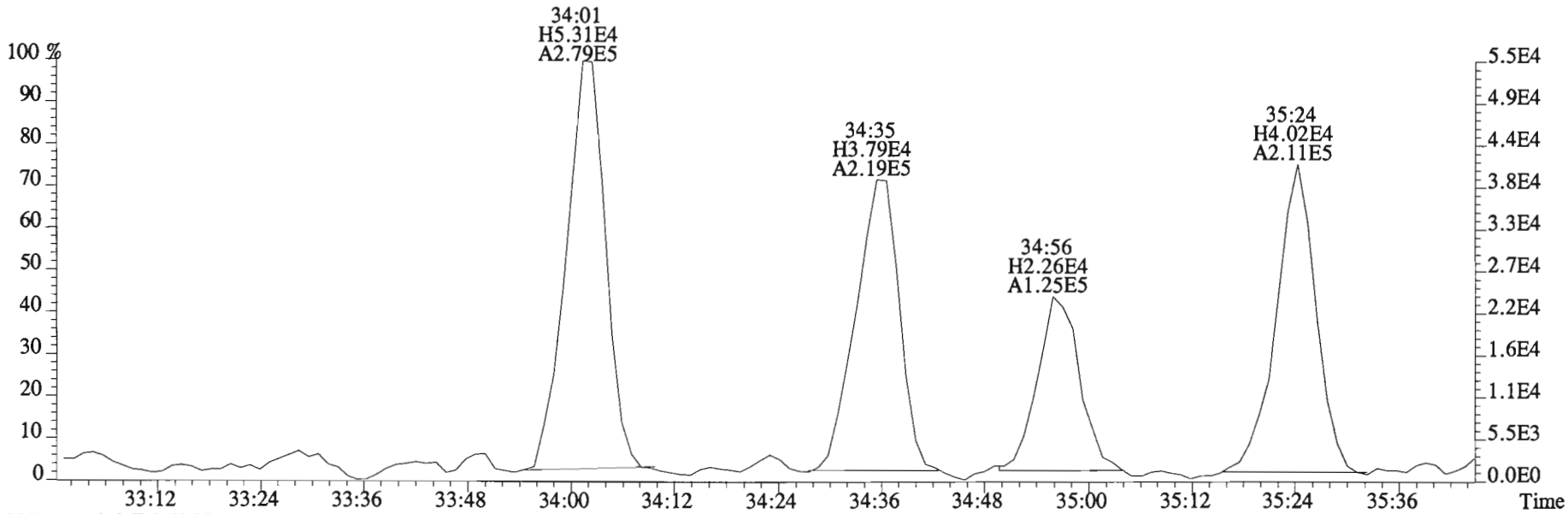
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2092.0,0.00%,F,F)



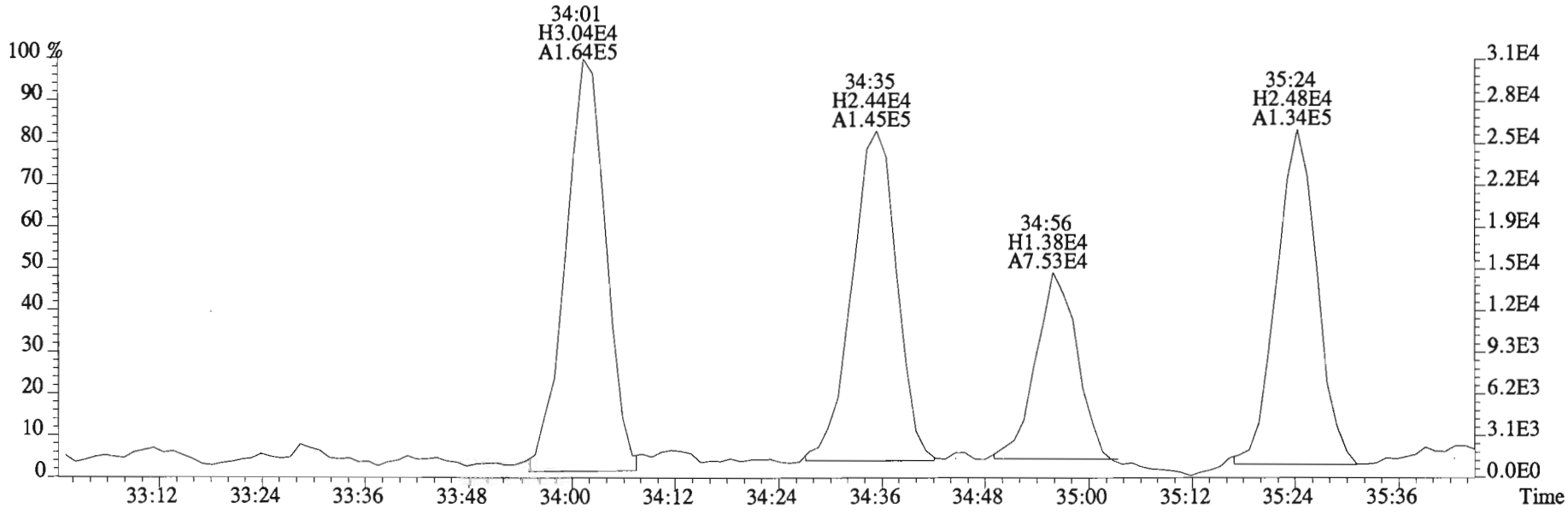
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1812.0,0.00%,F,F)



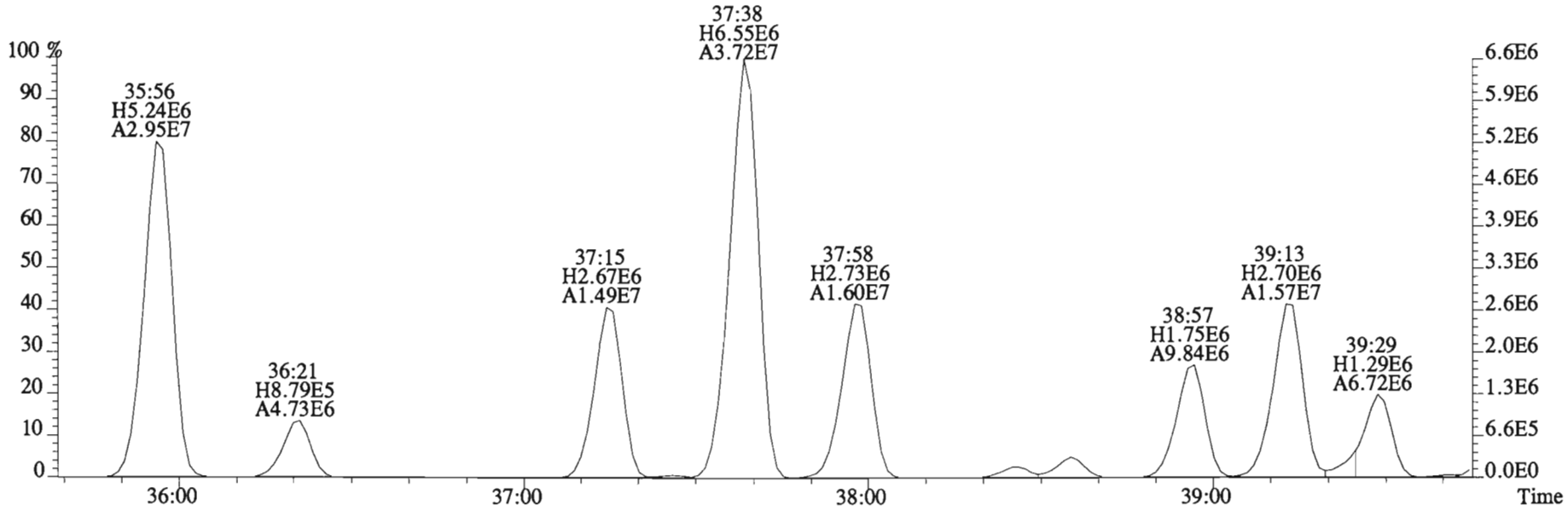
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2588.0,0.00%,F,F)



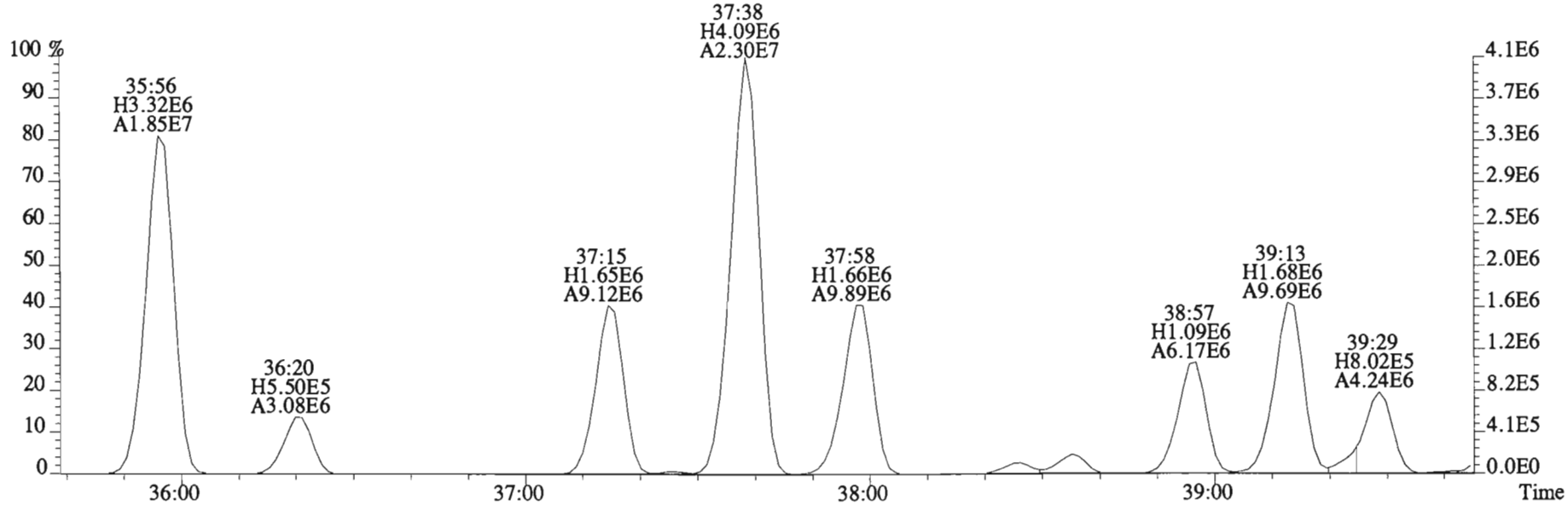
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2168.0,0.00%,F,F)



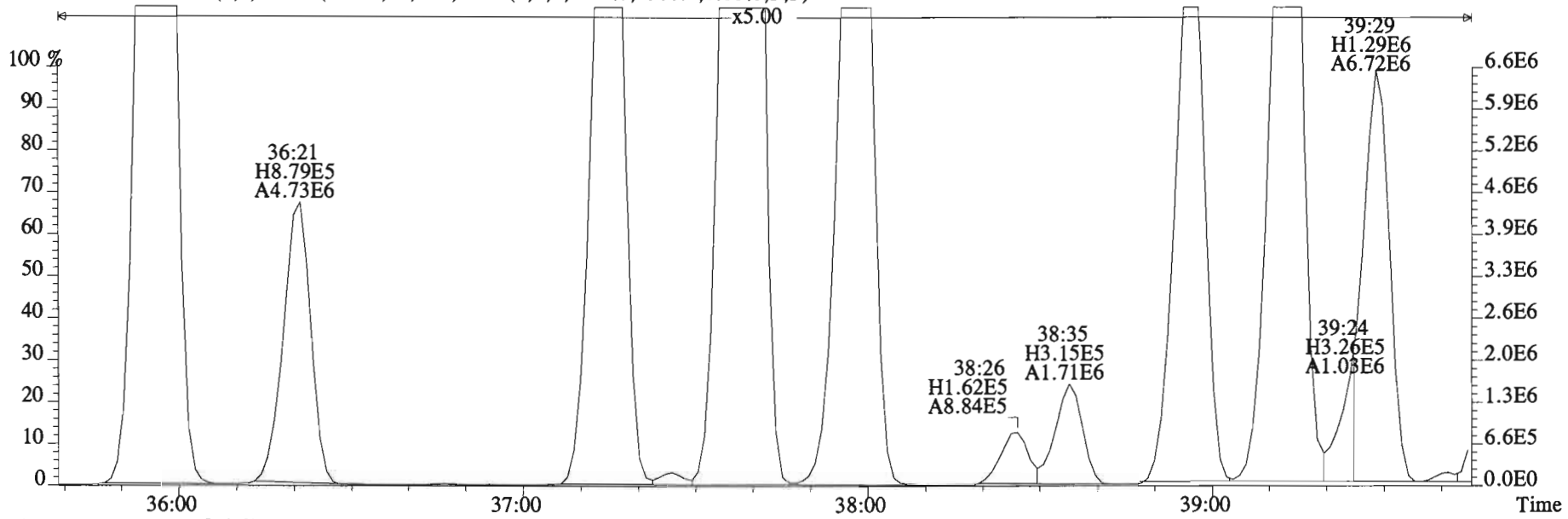
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2588.0,0.00%,F,F)



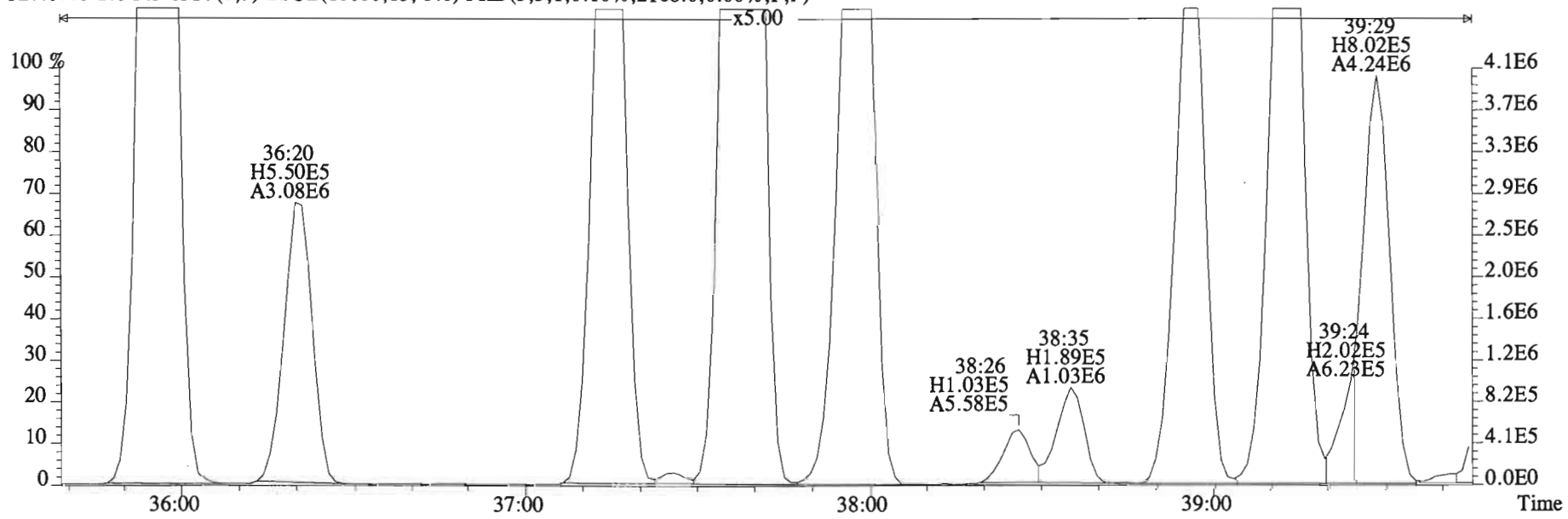
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2168.0,0.00%,F,F)



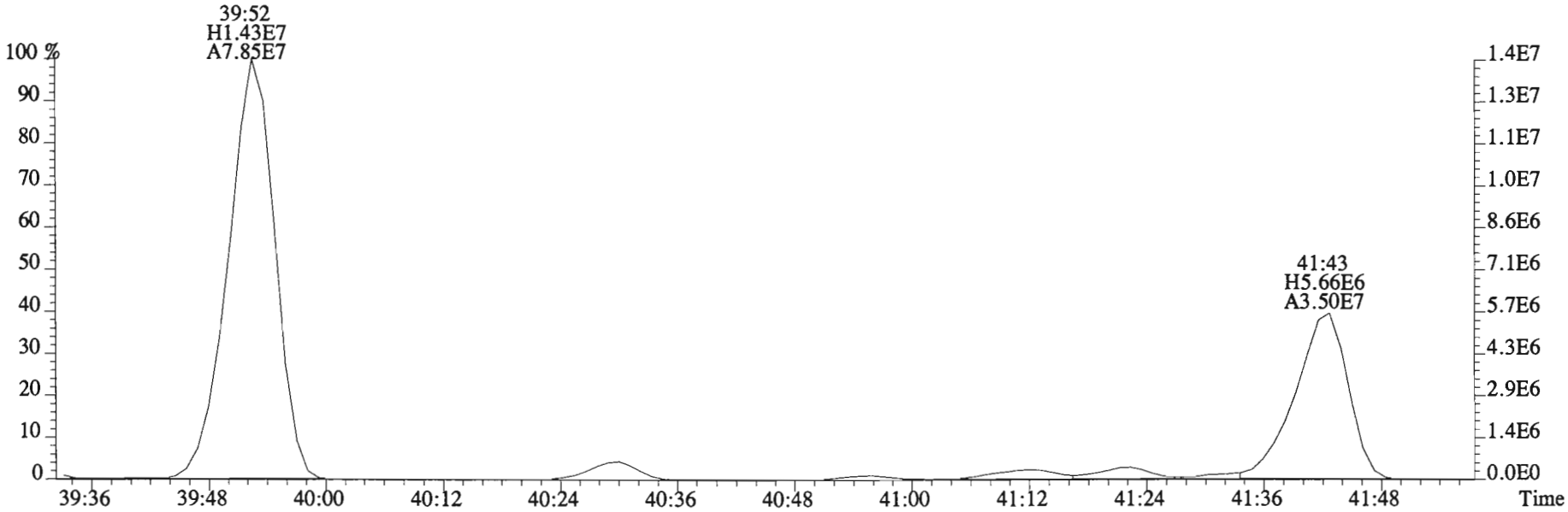
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2588.0,0.00%,F,F)



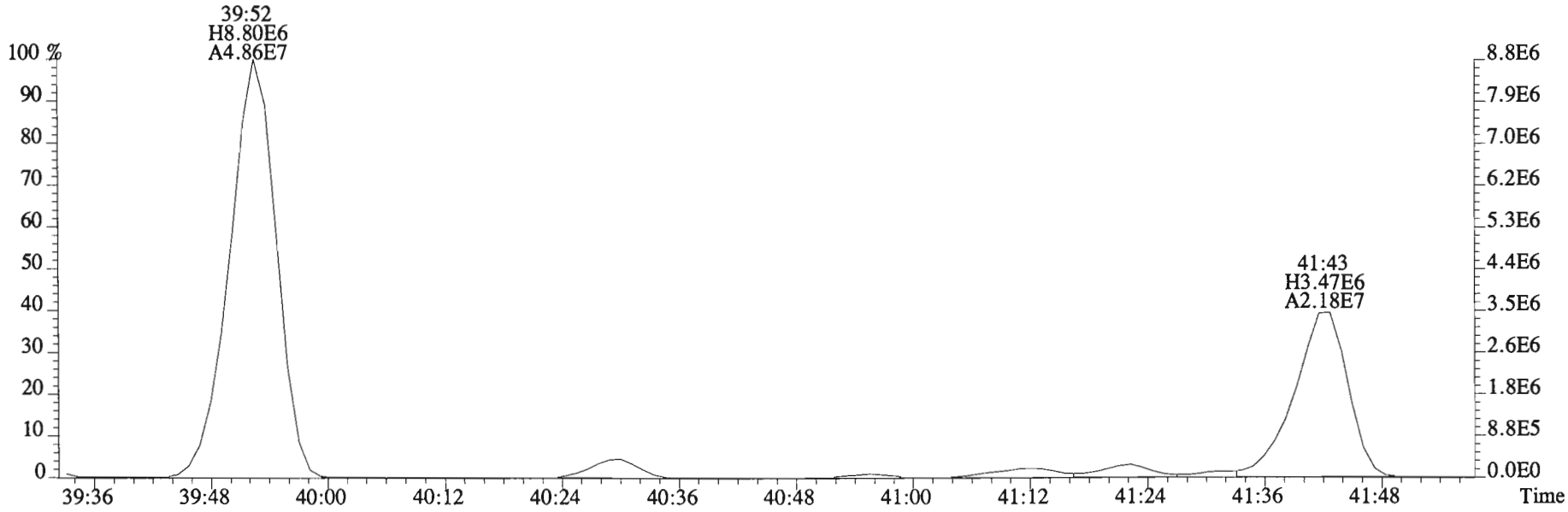
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2168.0,0.00%,F,F)



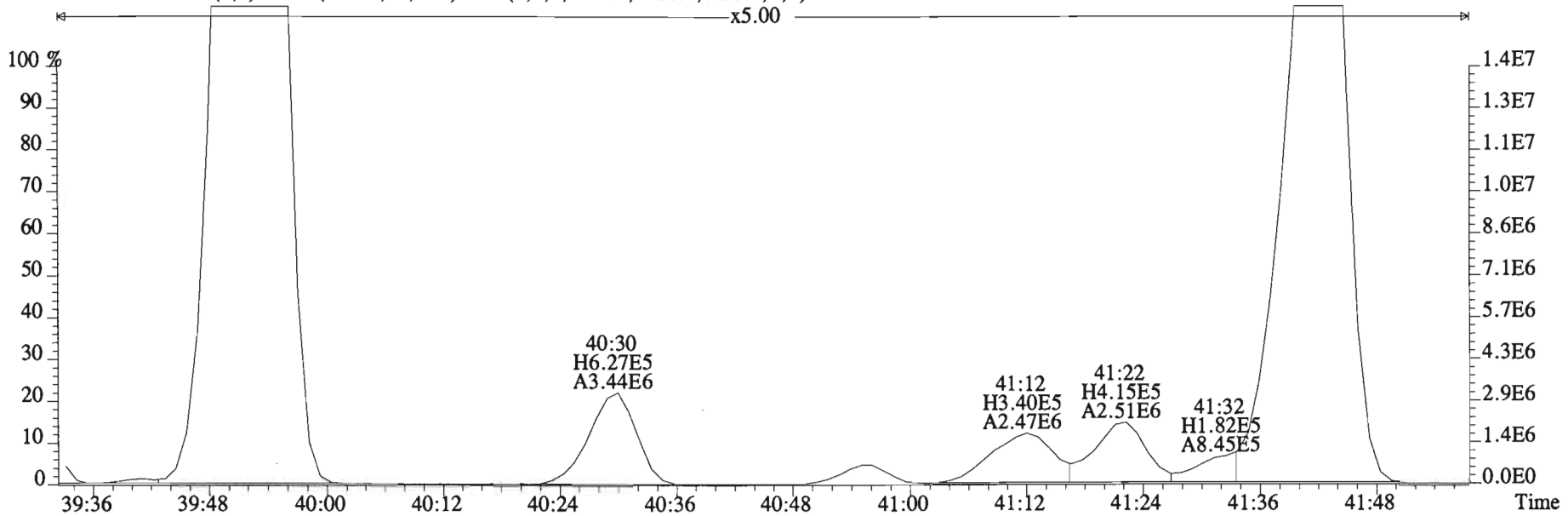
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2588.0,0.00%,F,F)



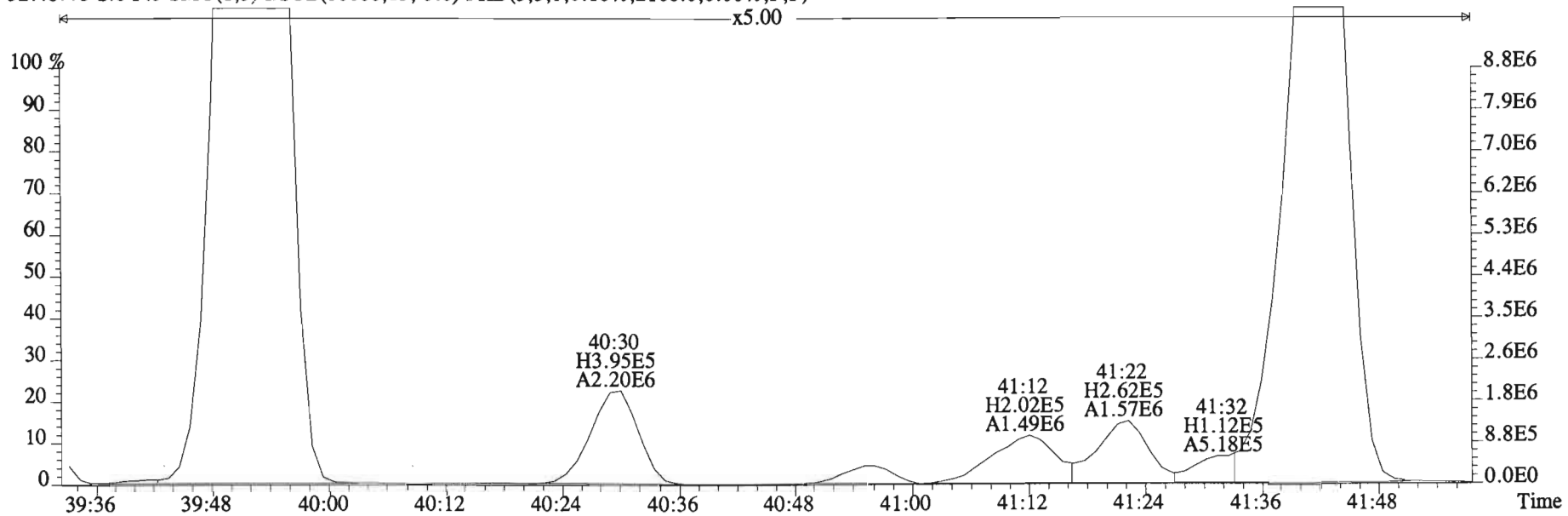
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2168.0,0.00%,F,F)



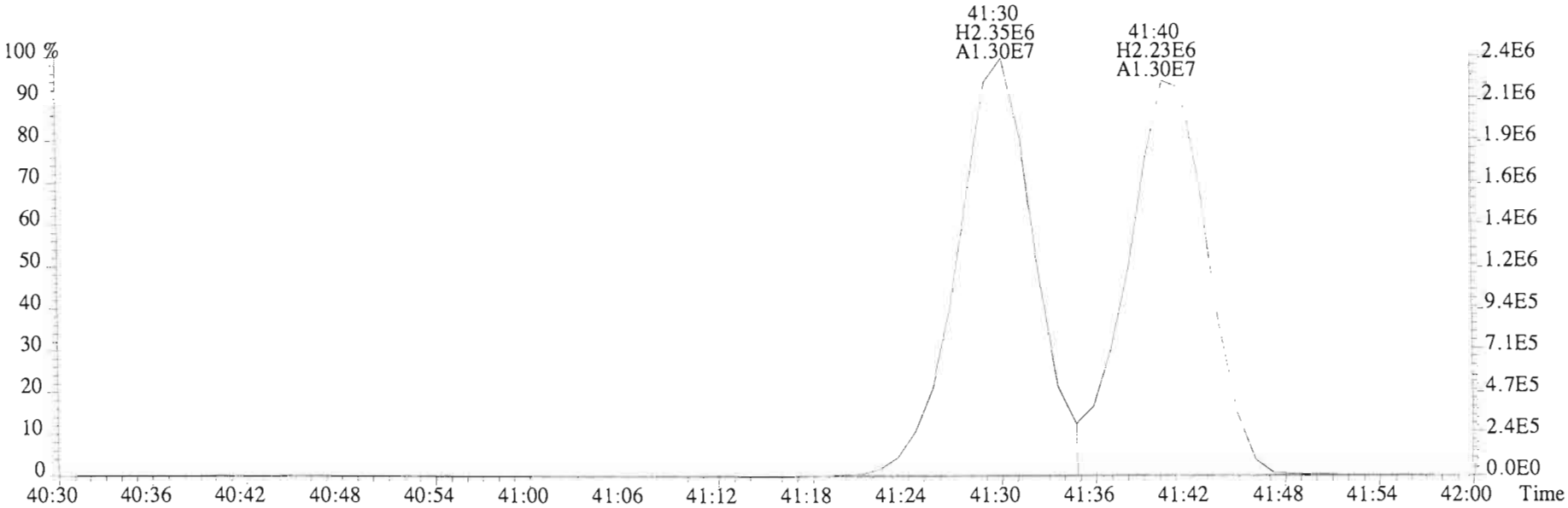
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
325.8804 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2588.0,0.00%,F,F)



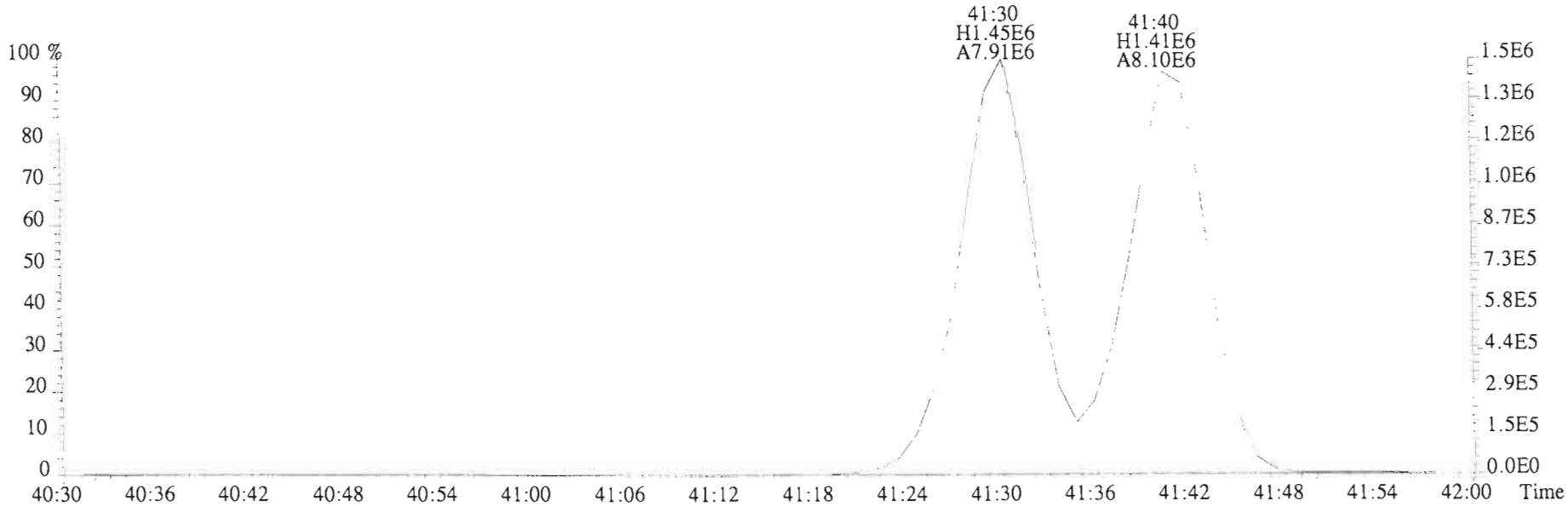
327.8775 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2168.0,0.00%,F,F)



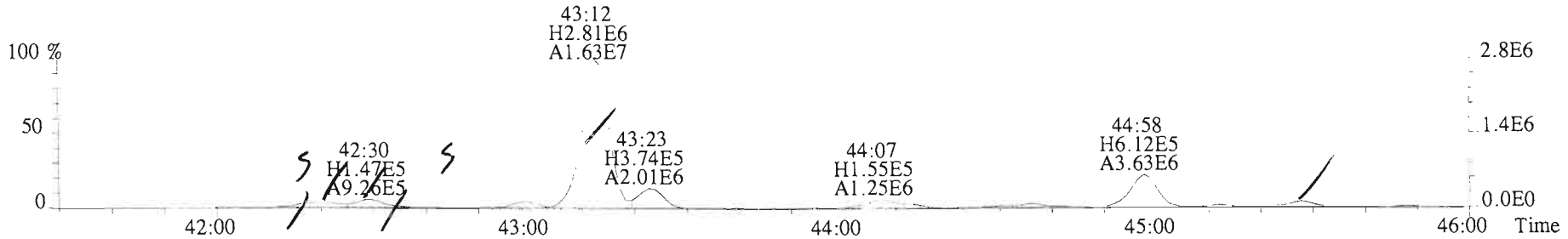
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
337.9207 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2092.0,0.00%,F,F)



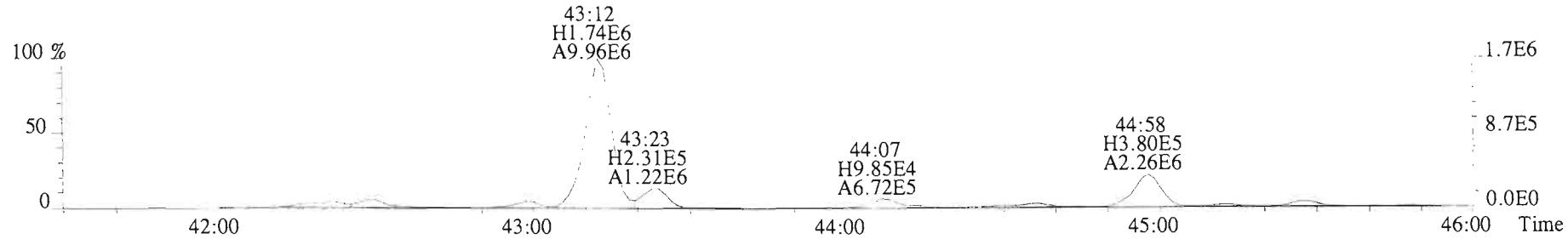
339.9177 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1812.0,0.00%,F,F)



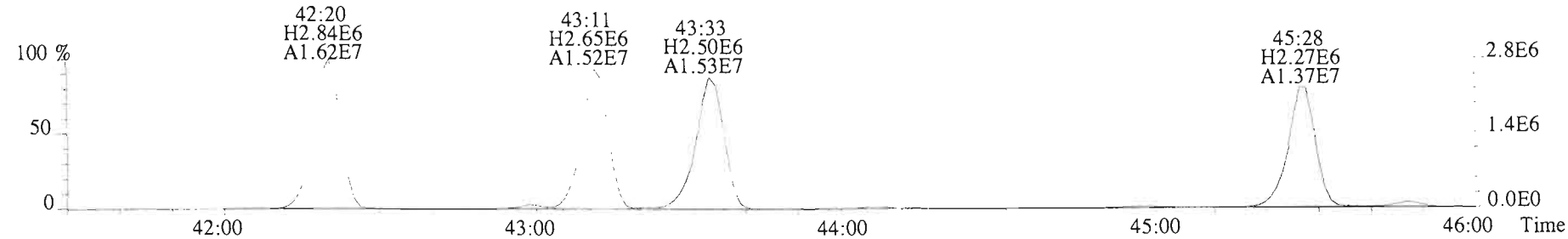
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6276.0,0.00%,F,F)



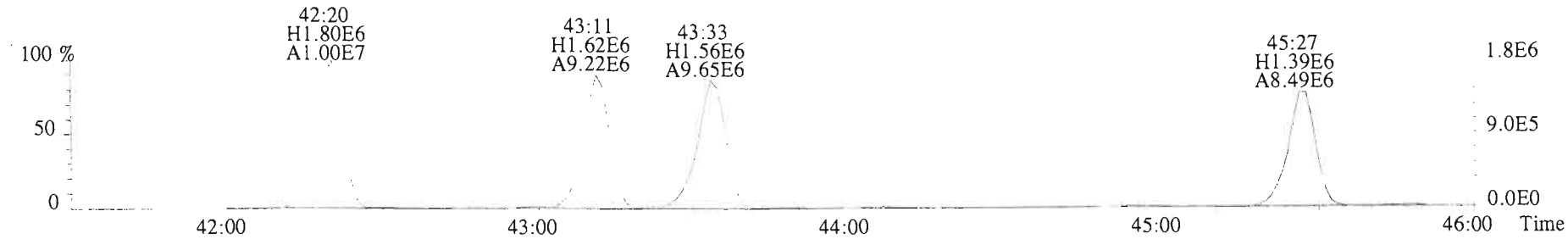
327.8775 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4436.0,0.00%,F,F)



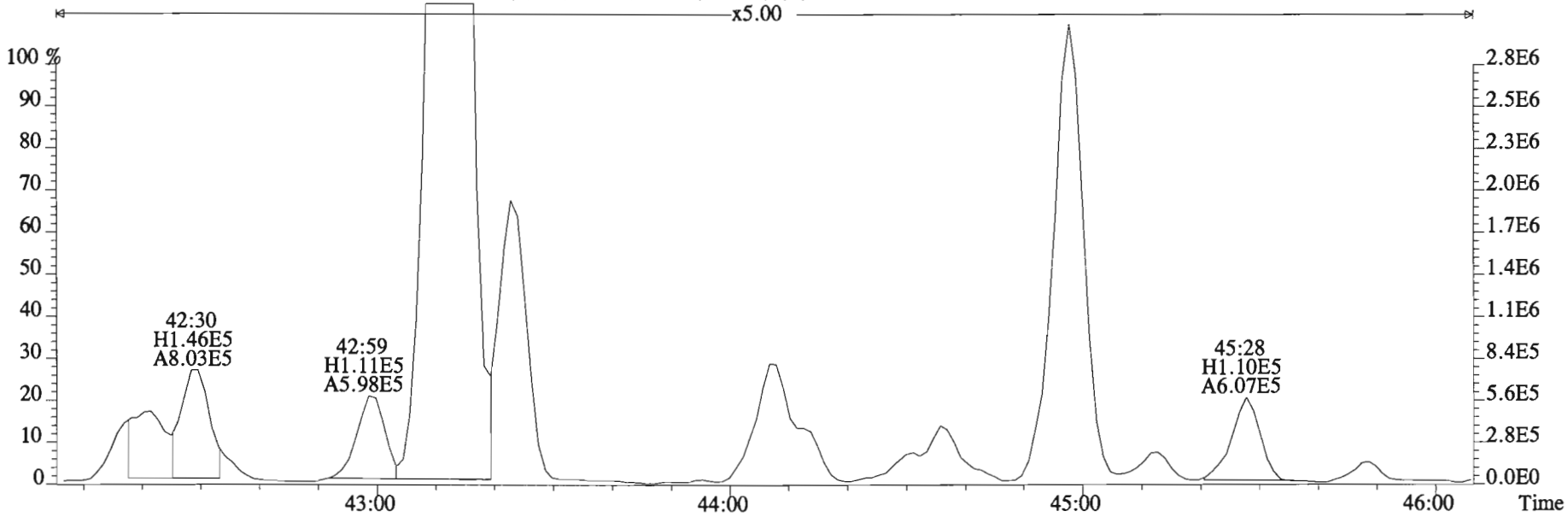
337.9207 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4272.0,0.00%,F,F)



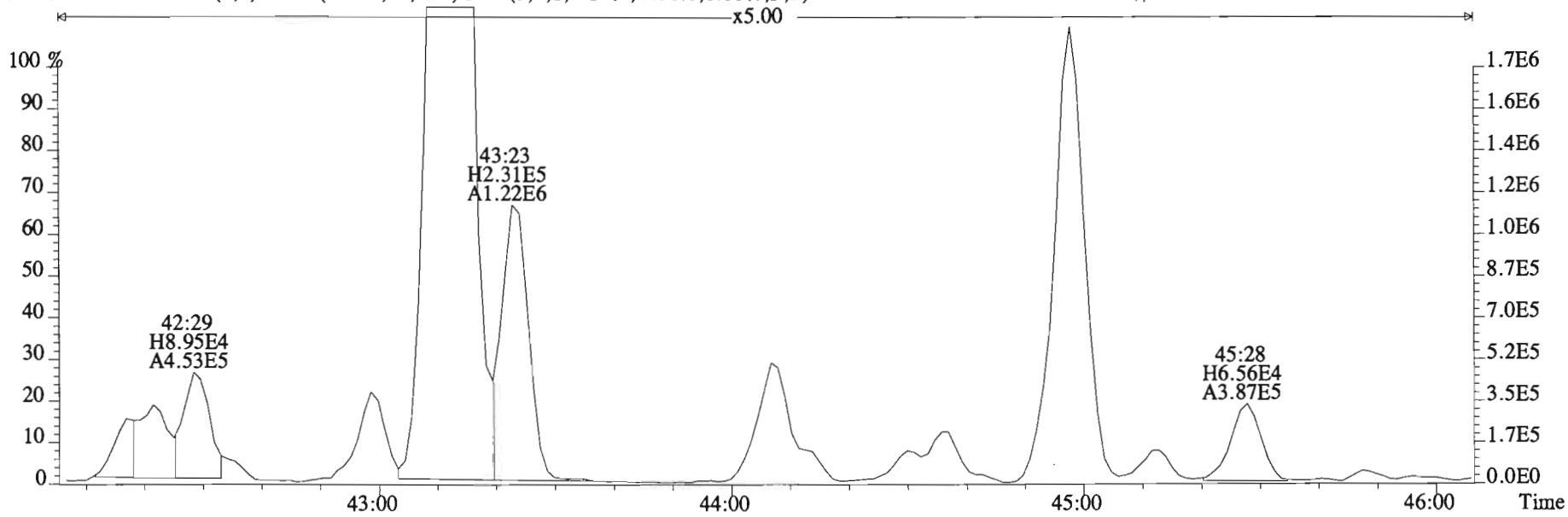
339.9177 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3140.0,0.00%,F,F)



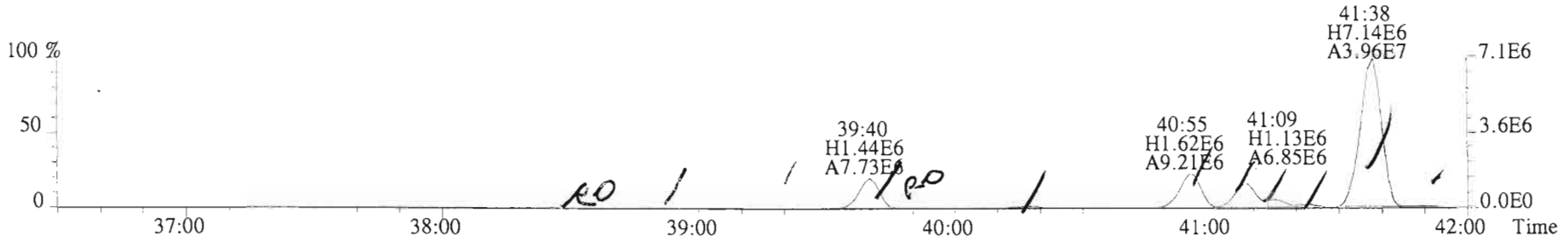
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
325.8804 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6276.0,0.00%,F,F)



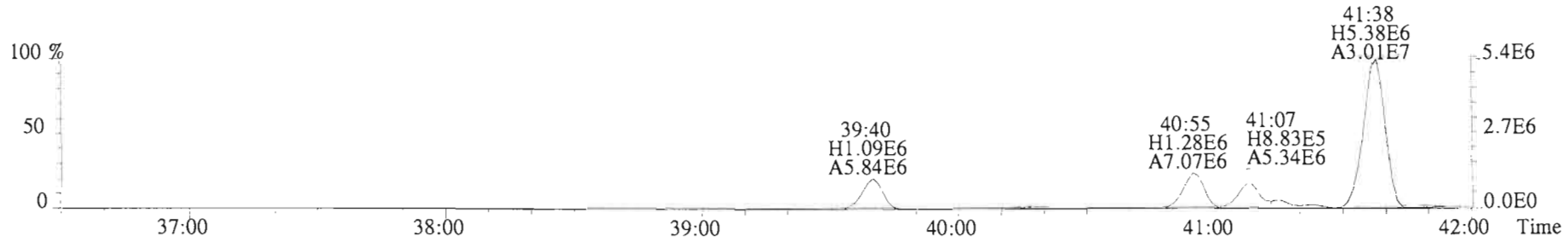
327.8775 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4436.0,0.00%,F,F)



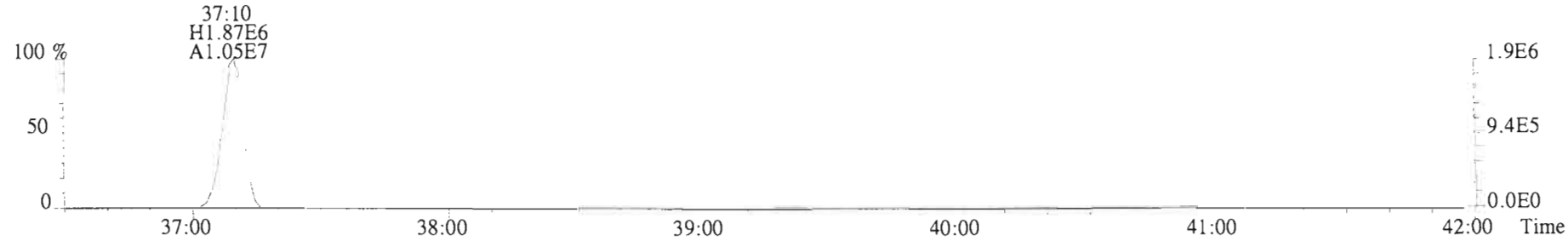
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC El+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1680.0,0.00%,F,F)



361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1692.0,0.00%,F,F)

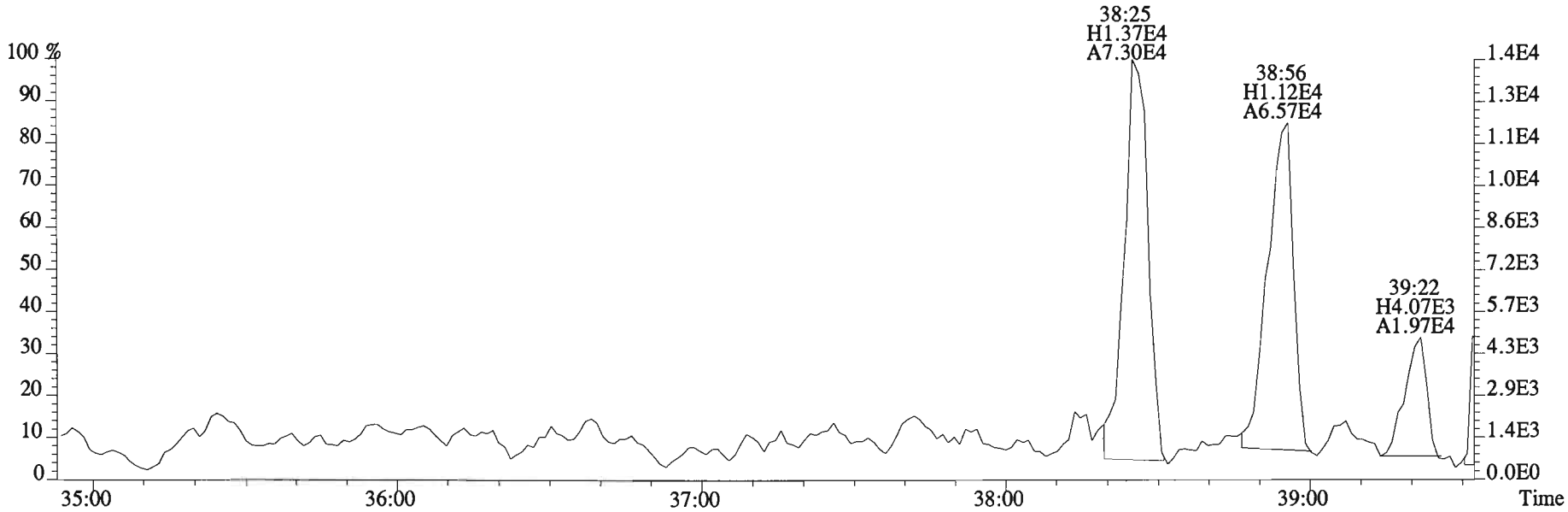


371.8817 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1516.0,0.00%,F,F)

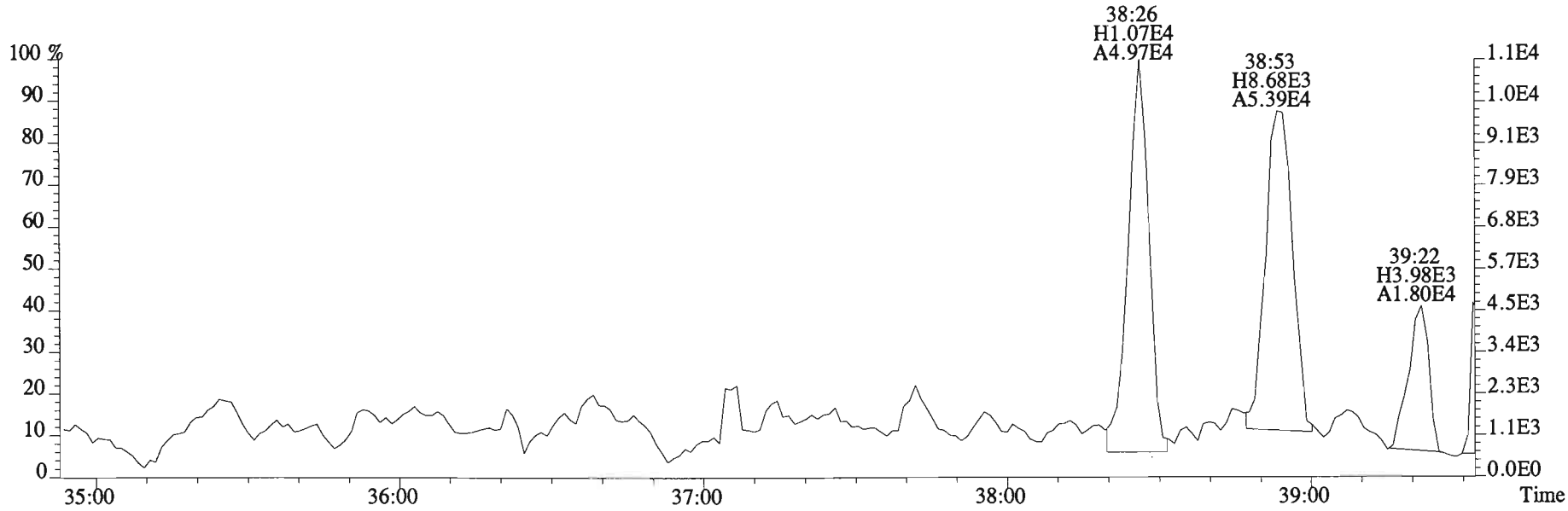


373.8788 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1740.0,0.00%,F,F)

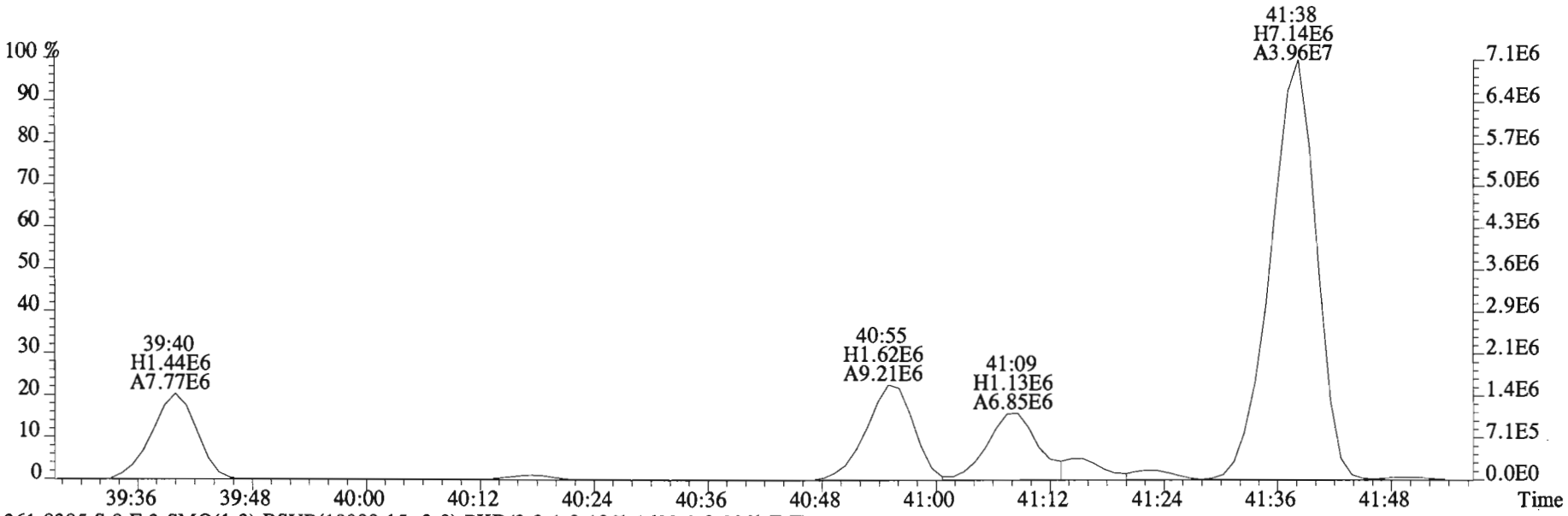
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1680.0,0.00%,F,F)



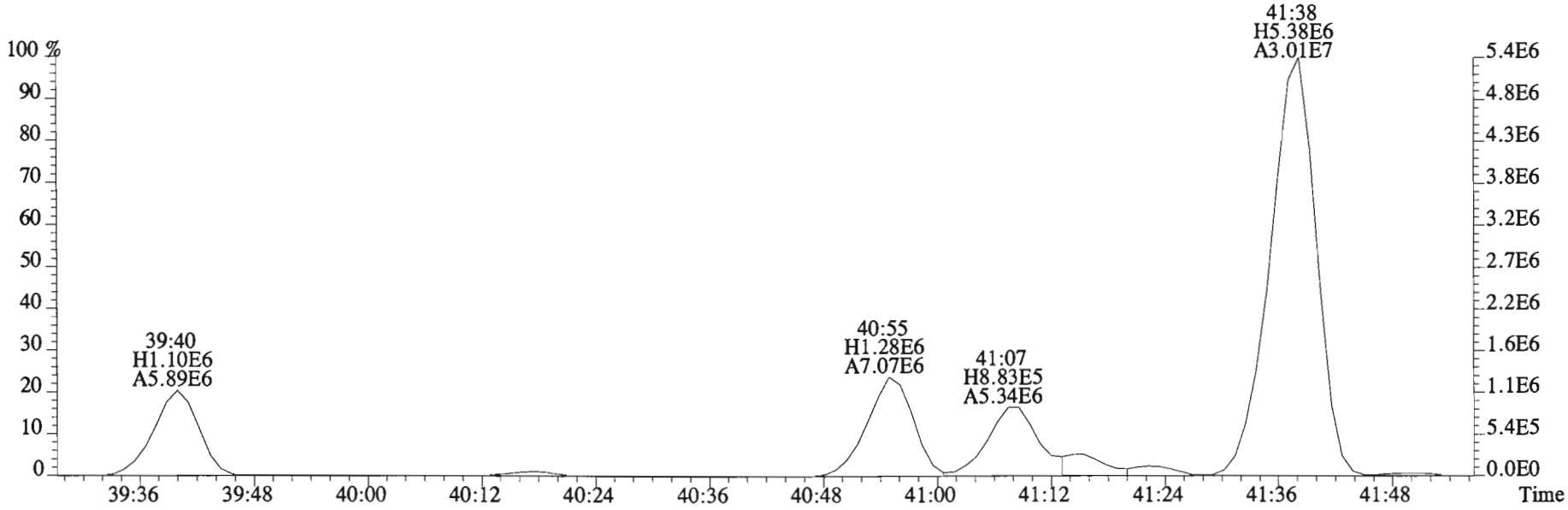
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1692.0,0.00%,F,F)



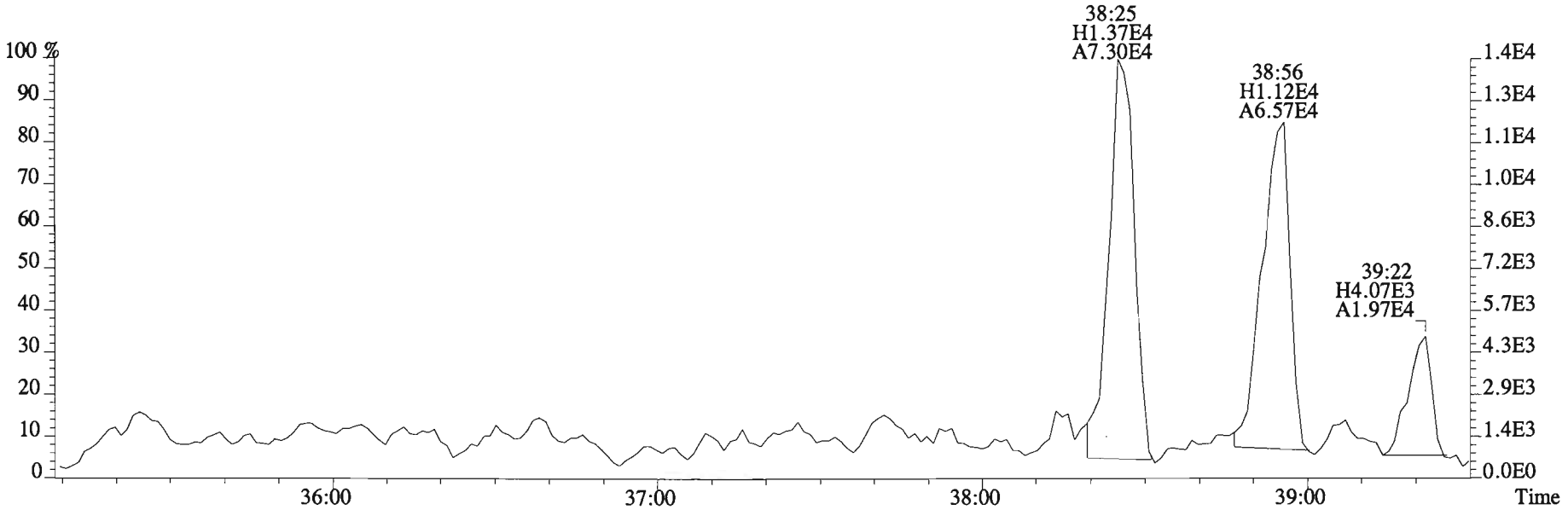
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1680.0,0.00%,F,F)



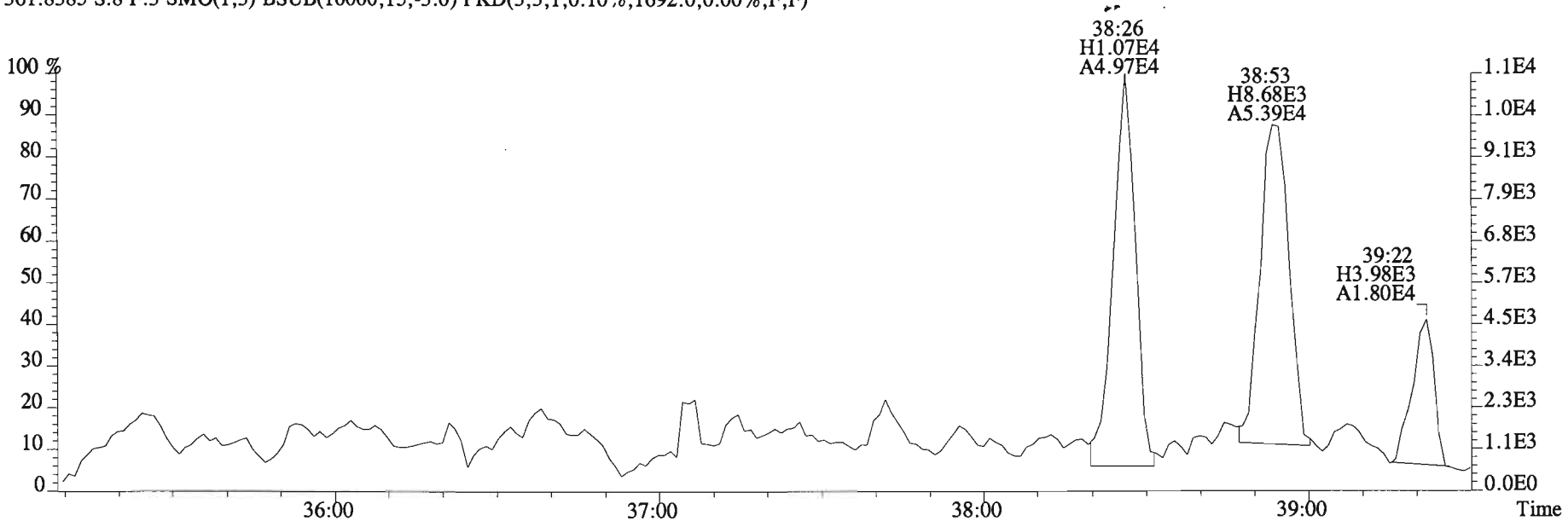
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1692.0,0.00%,F,F)



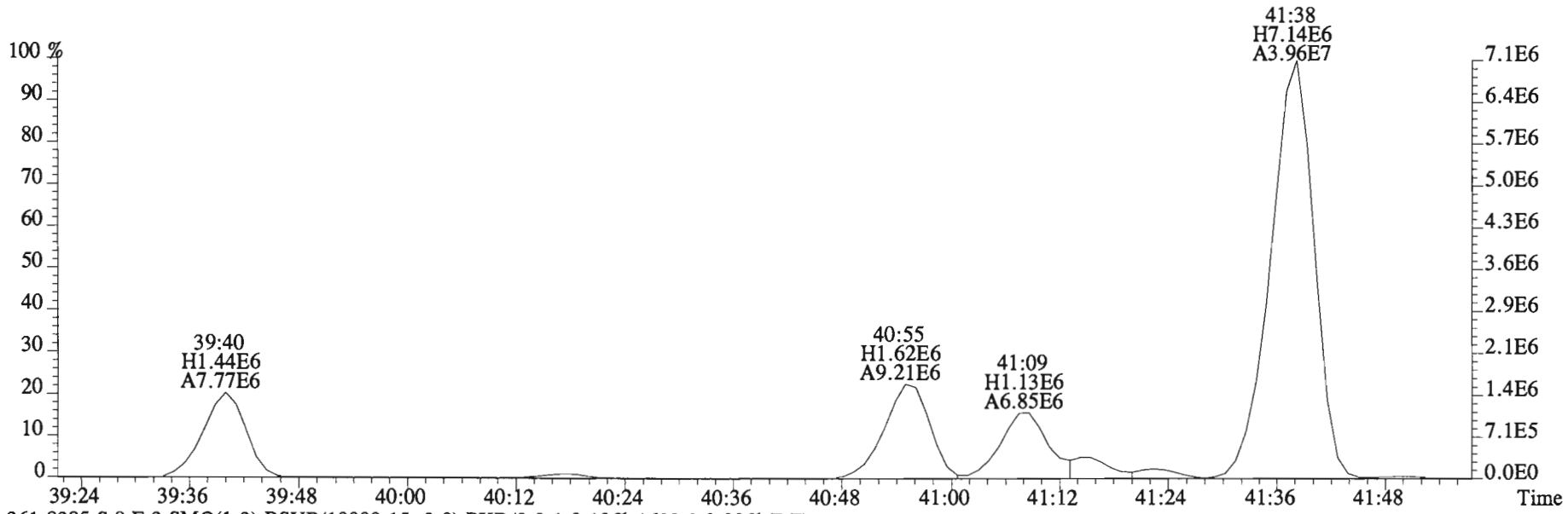
File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1680.0,0.00%,F,F)



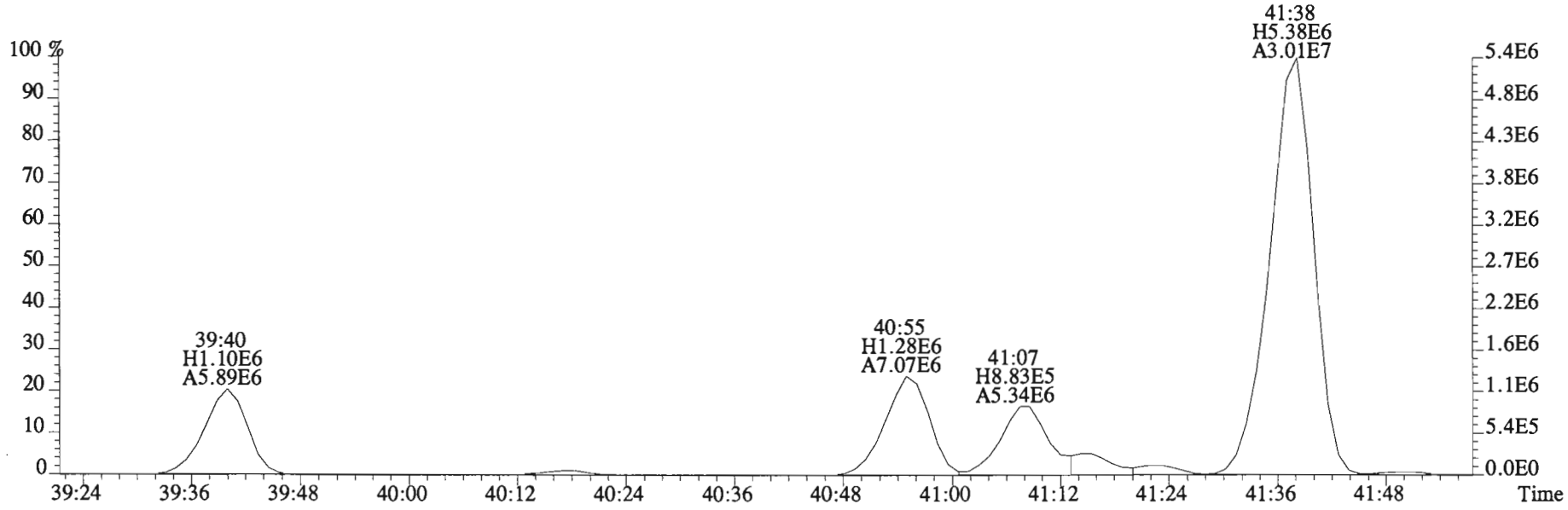
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1692.0,0.00%,F,F)

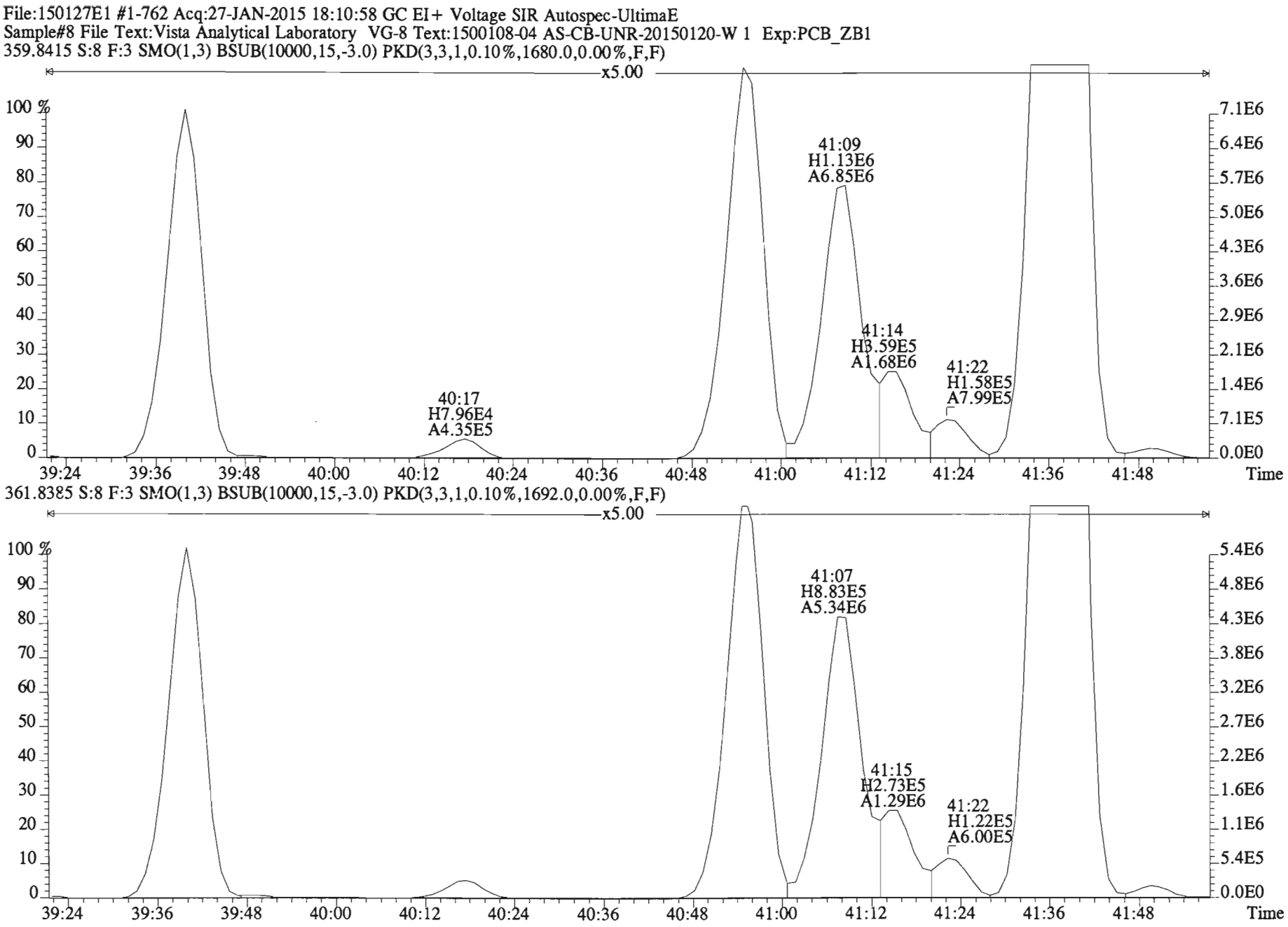


File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1680.0,0.00%,F,F)

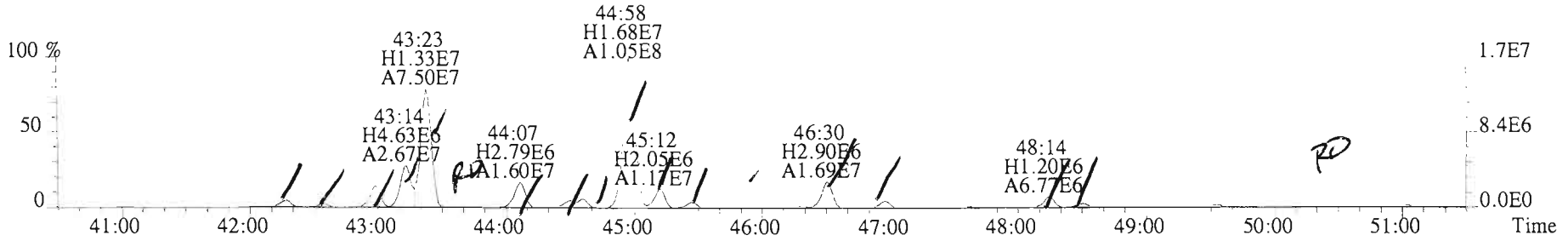


361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1692.0,0.00%,F,F)

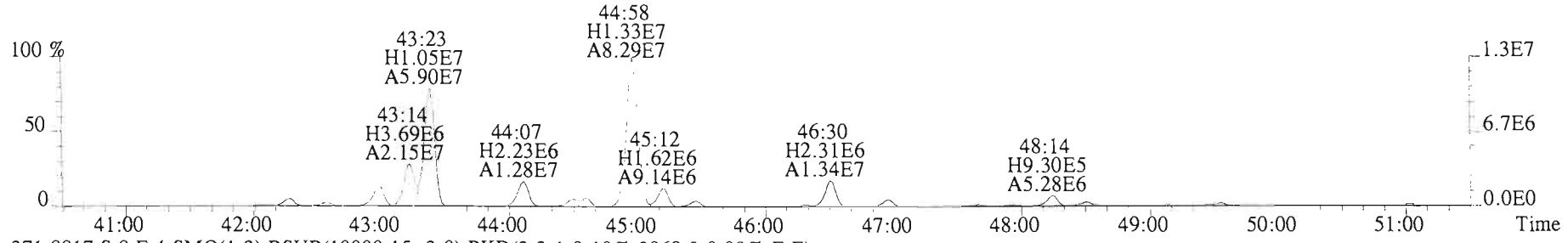



File:150127E1 #1-762 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
359.8415 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1680.0,0.00%,F,F)
x5.00
100 %
90
80
70
60
50
40
30
20
10
0
7.1E6
6.4E6
5.7E6
5.0E6
4.3E6
3.6E6
2.9E6
2.1E6
1.4E6
7.1E5
0.0E0
40:17
H7.96E4
A4.35E5
41:09
H1.13E6
A6.85E6
41:14
H3.59E5
A1.68E6
41:22
H1.58E5
A7.99E5
39:24
39:36
39:48
40:00
40:12
40:24
40:36
40:48
41:00
41:12
41:24
41:36
41:48
Time
361.8385 S:8 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1692.0,0.00%,F,F)
x5.00
100 %
90
80
70
60
50
40
30
20
10
0
5.4E6
4.8E6
4.3E6
3.8E6
3.2E6
2.7E6
2.2E6
1.6E6
1.1E6
5.4E5
0.0E0
41:07
H8.83E5
A5.34E6
41:15
H2.73E5
A1.29E6
41:22
H1.22E5
A6.00E5
39:24
39:36
39:48
40:00
40:12
40:24
40:36
40:48
41:00
41:12
41:24
41:36
41:48
Time

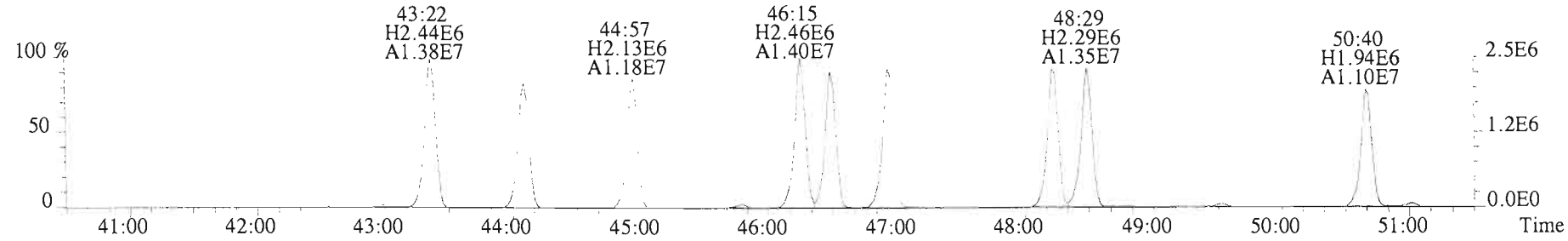
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5544.0,0.00%,F,F)



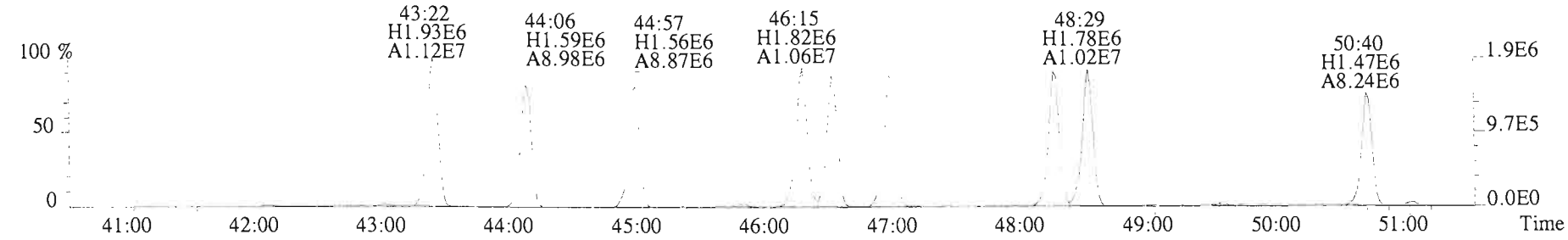
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5756.0,0.00%,F,F)



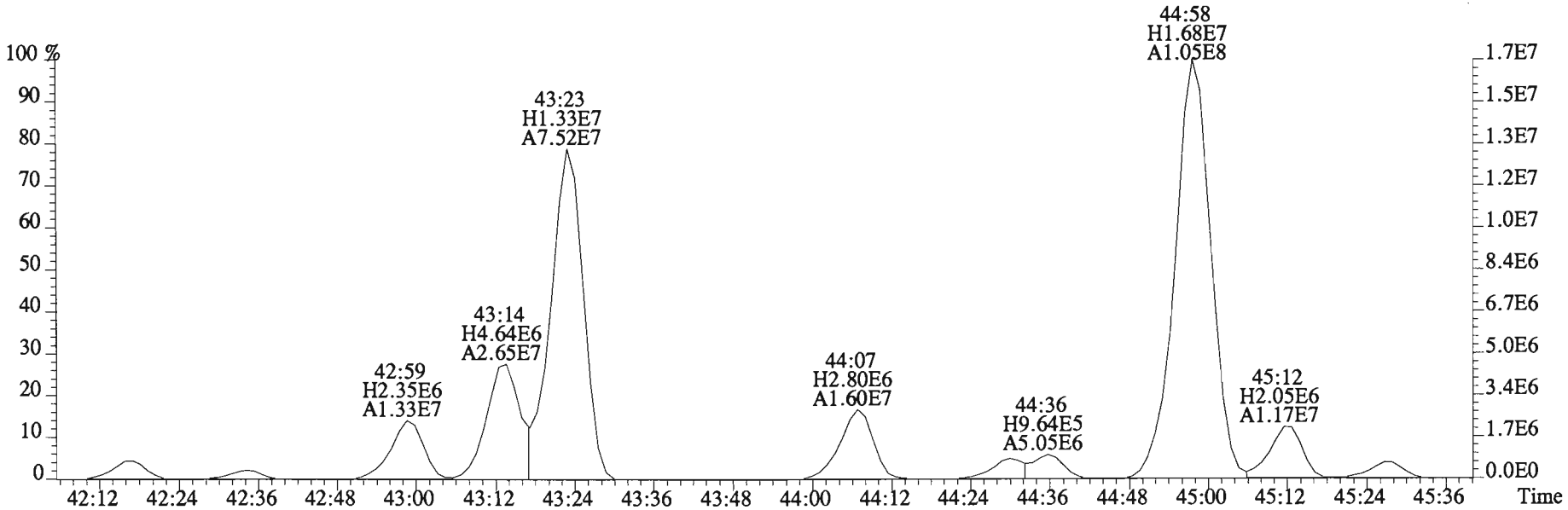
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3868.0,0.00%,F,F)



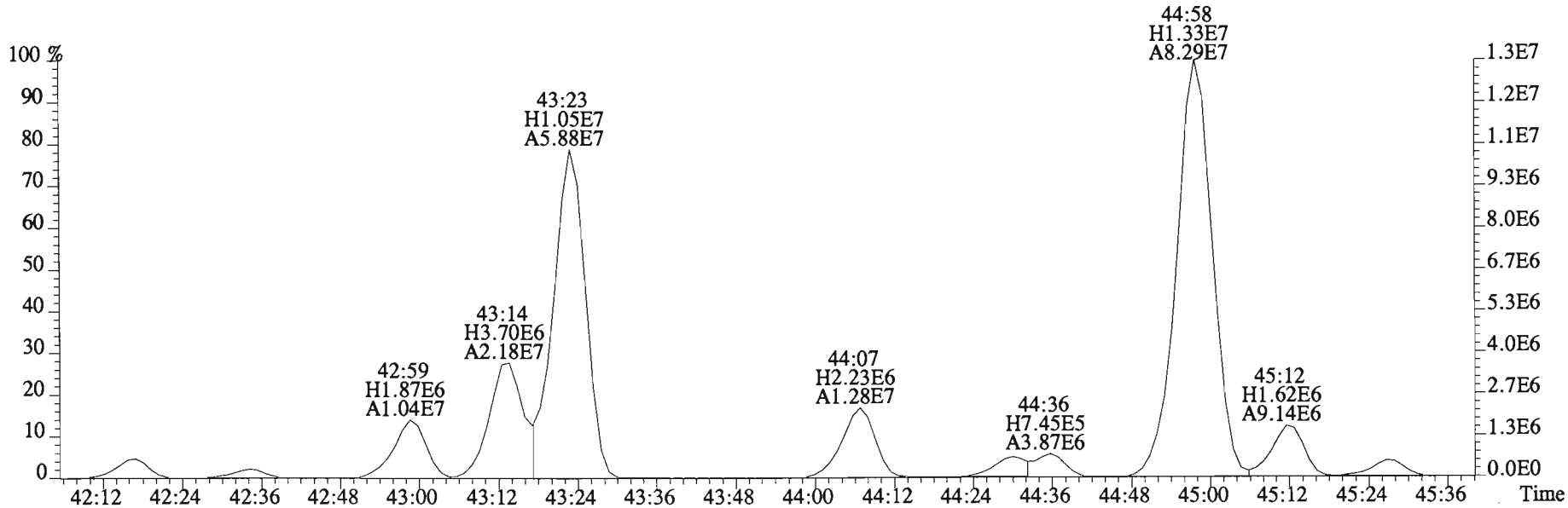
373.8788 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4412.0,0.00%,F,F)



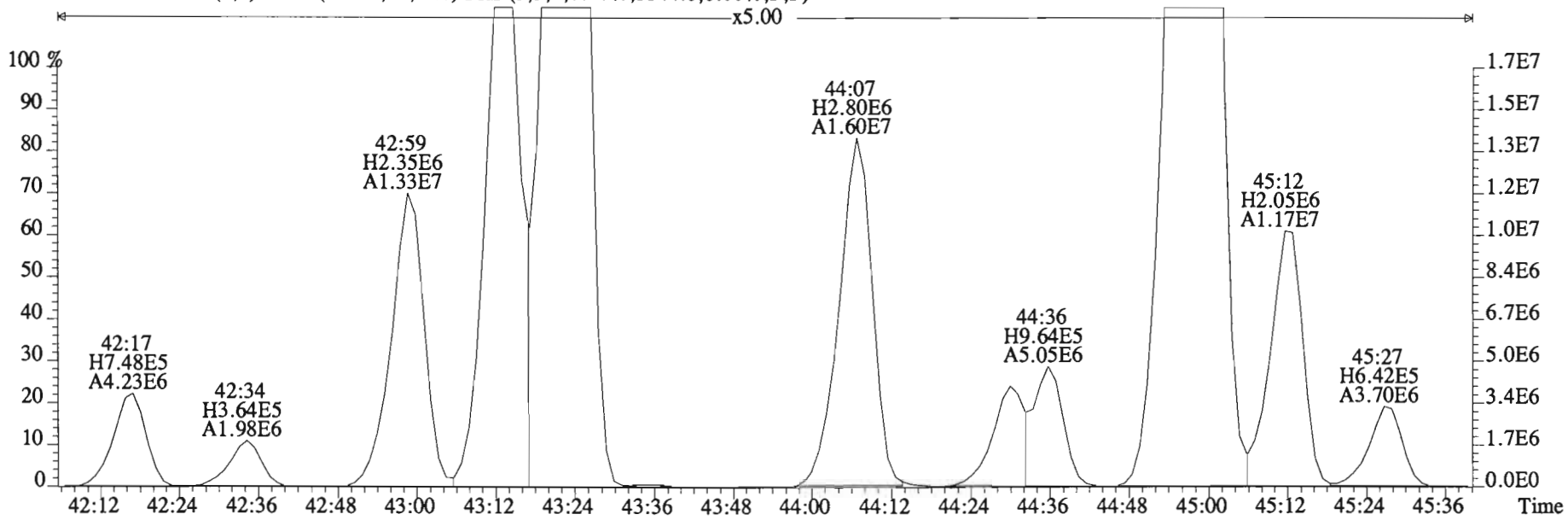
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5544.0,0.00%,F,F)



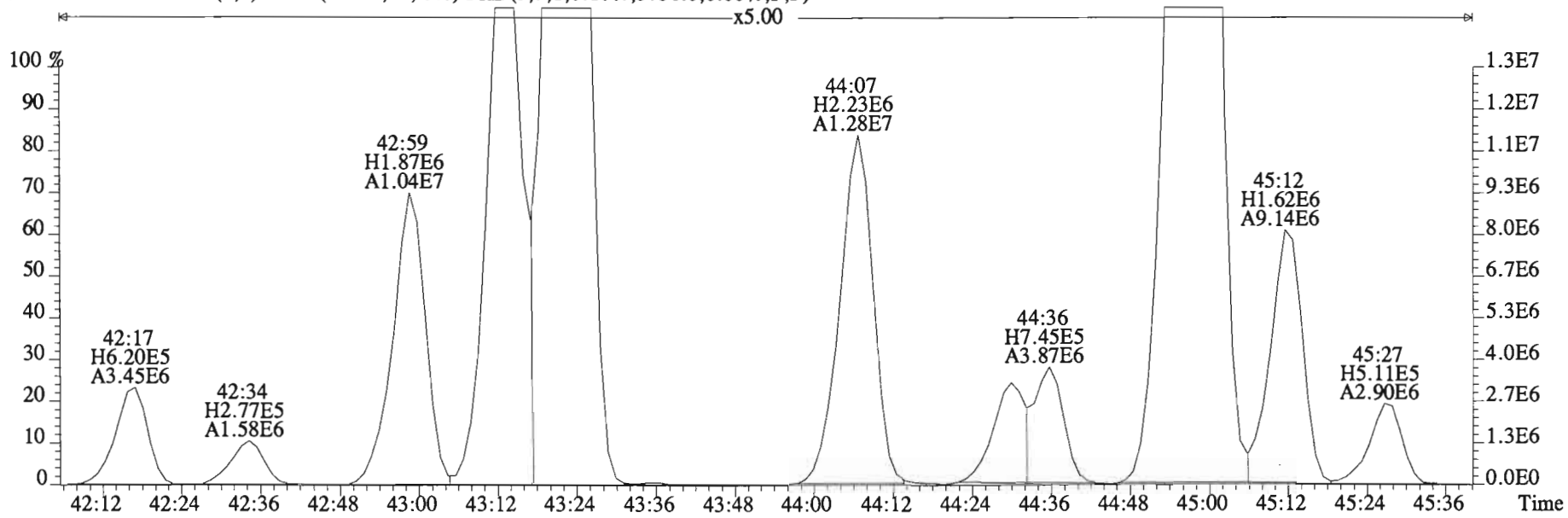
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5756.0,0.00%,F,F)



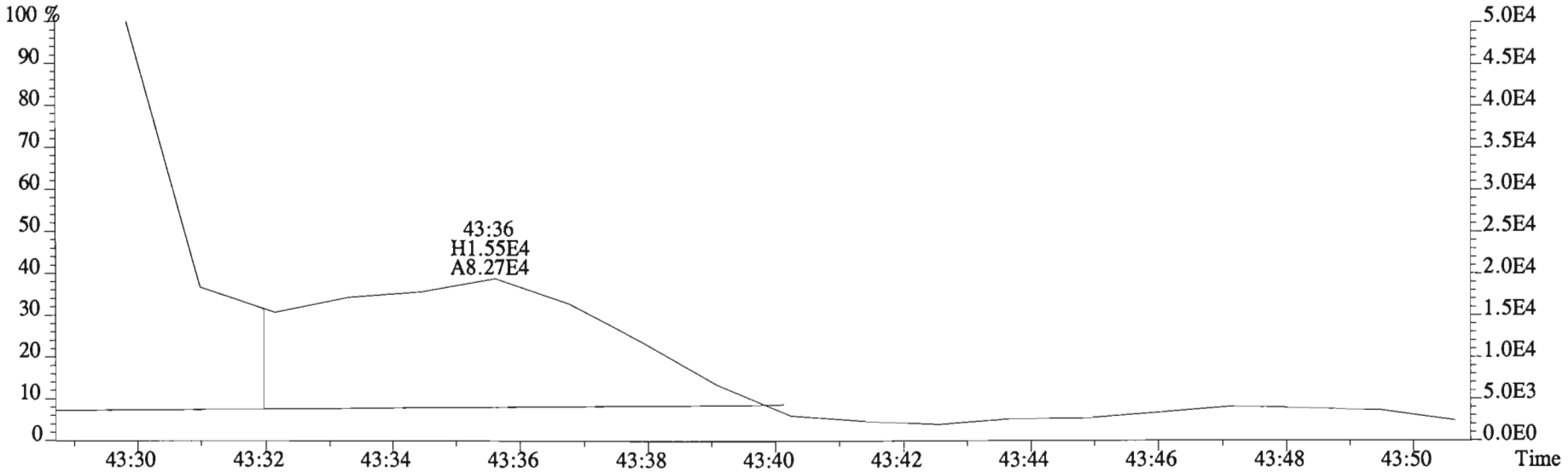
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5544.0,0.00%,F,F)



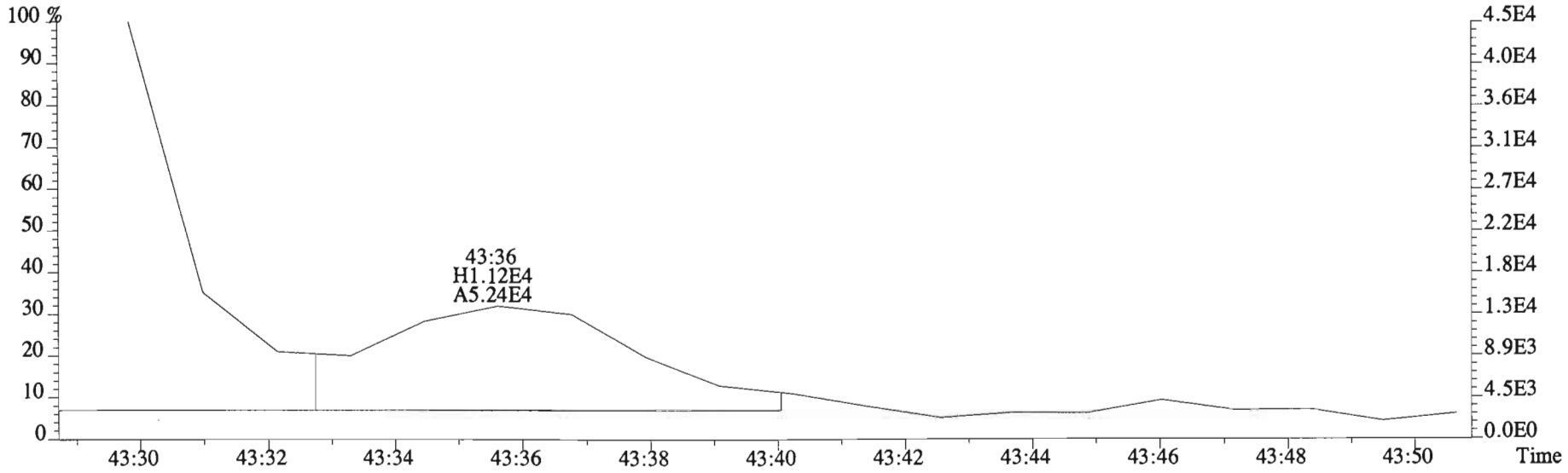
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5756.0,0.00%,F,F)



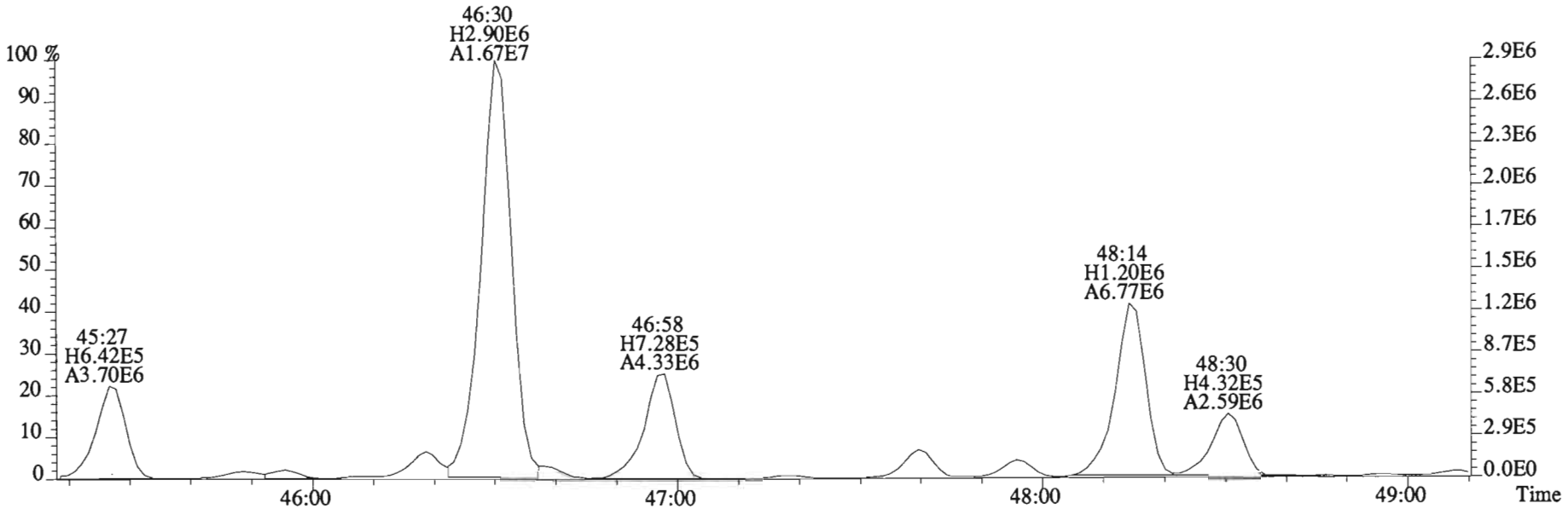
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5544.0,0.00%,F,F)



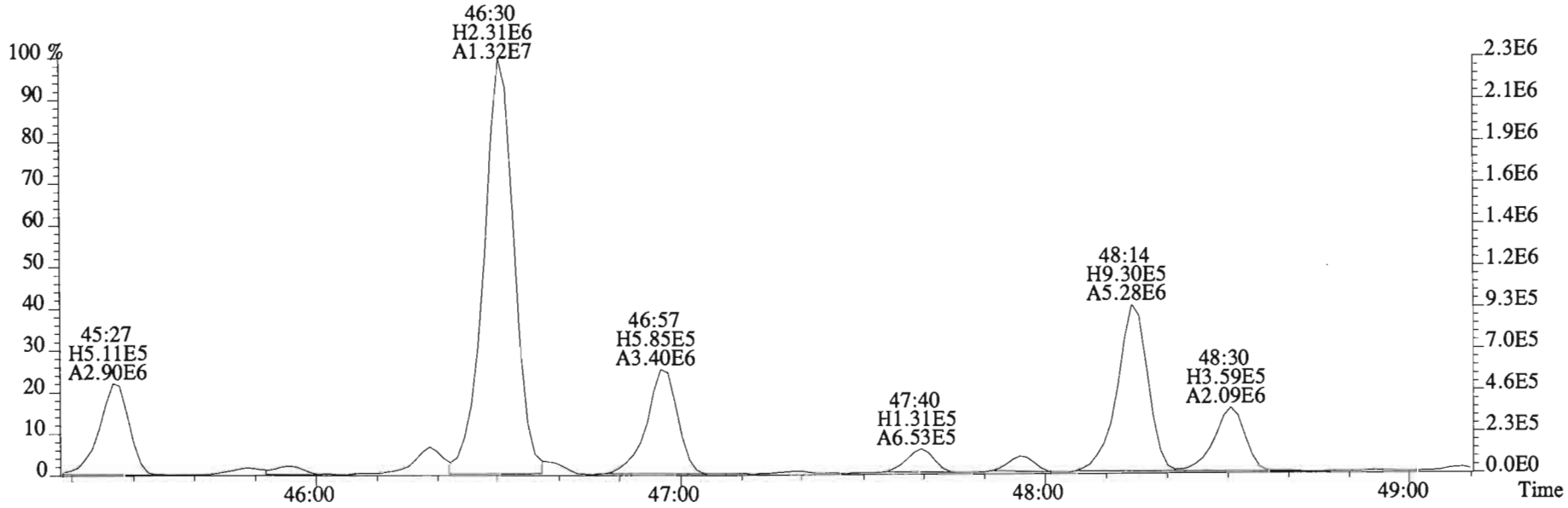
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5756.0,0.00%,F,F)



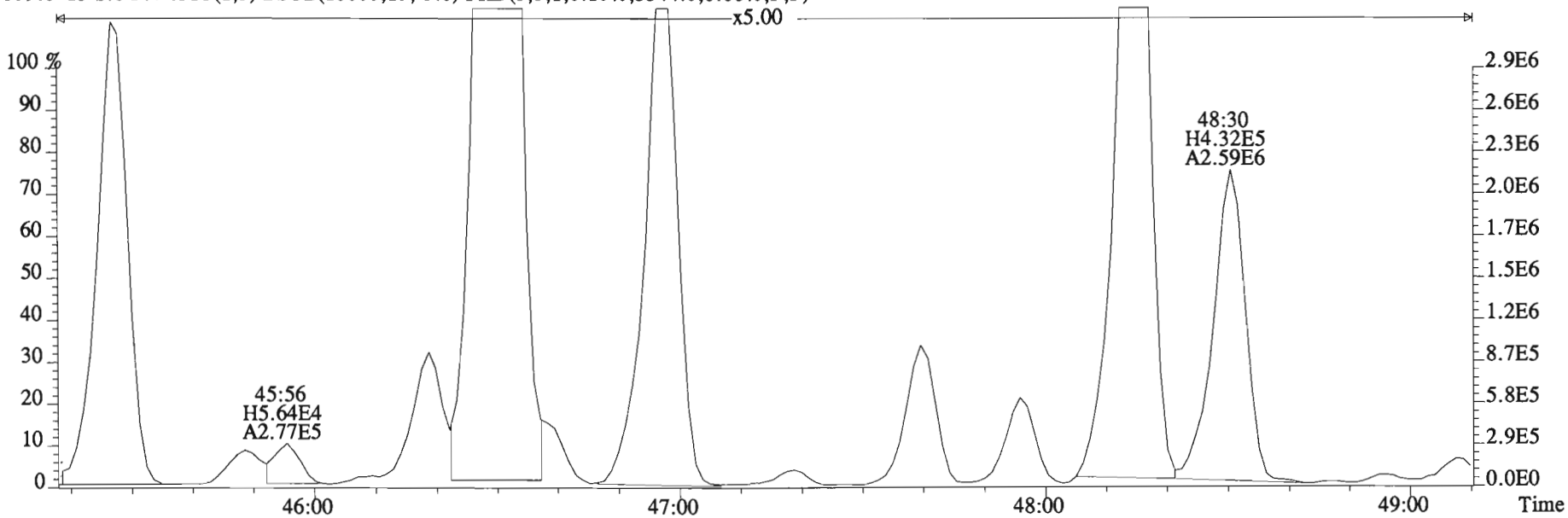
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5544.0,0.00%,F,F)



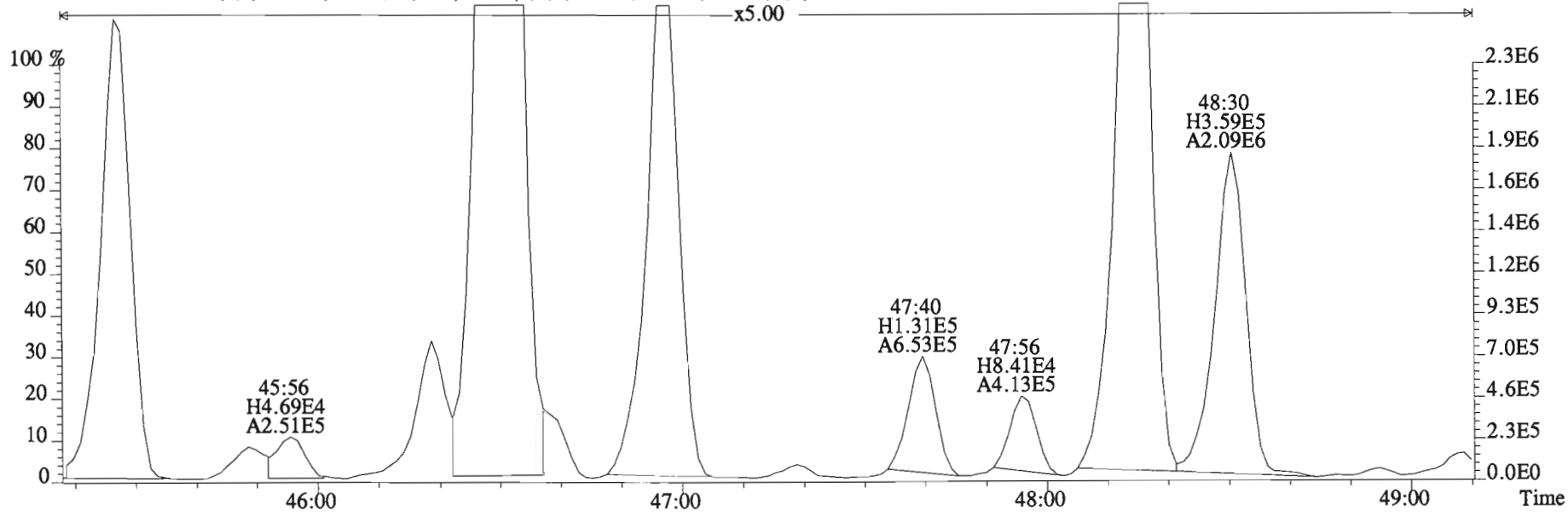
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5756.0,0.00%,F,F)



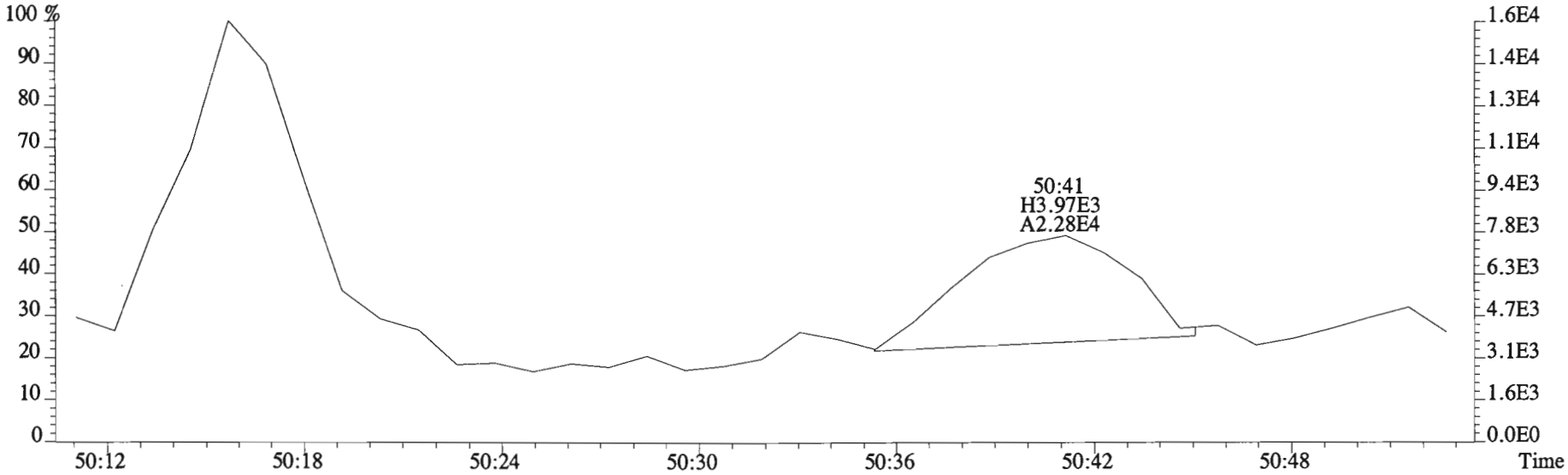
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5544.0,0.00%,F,F)



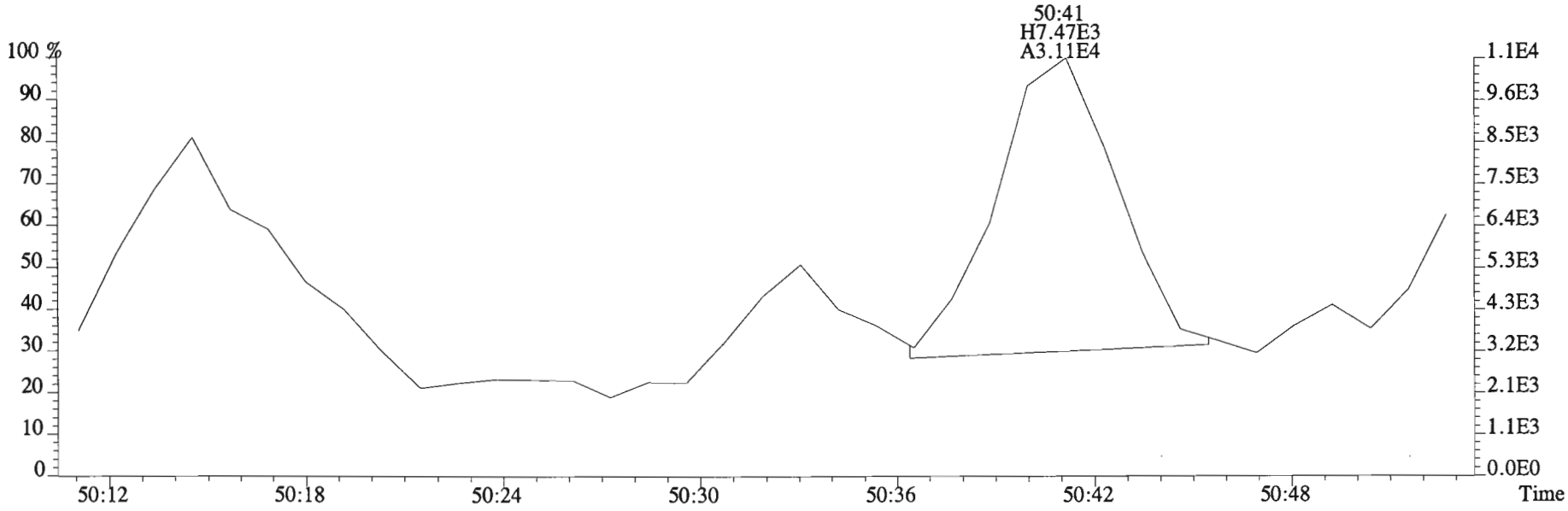
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5756.0,0.00%,F,F)



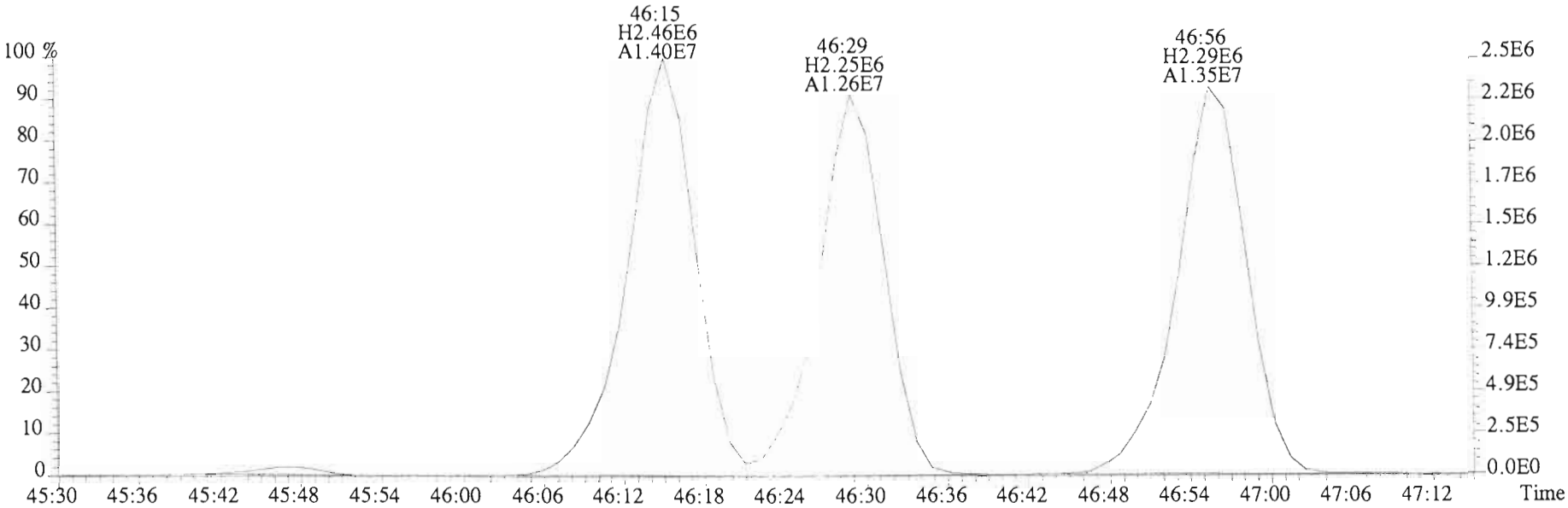
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
359.8415 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5544.0,0.00%,F,F)



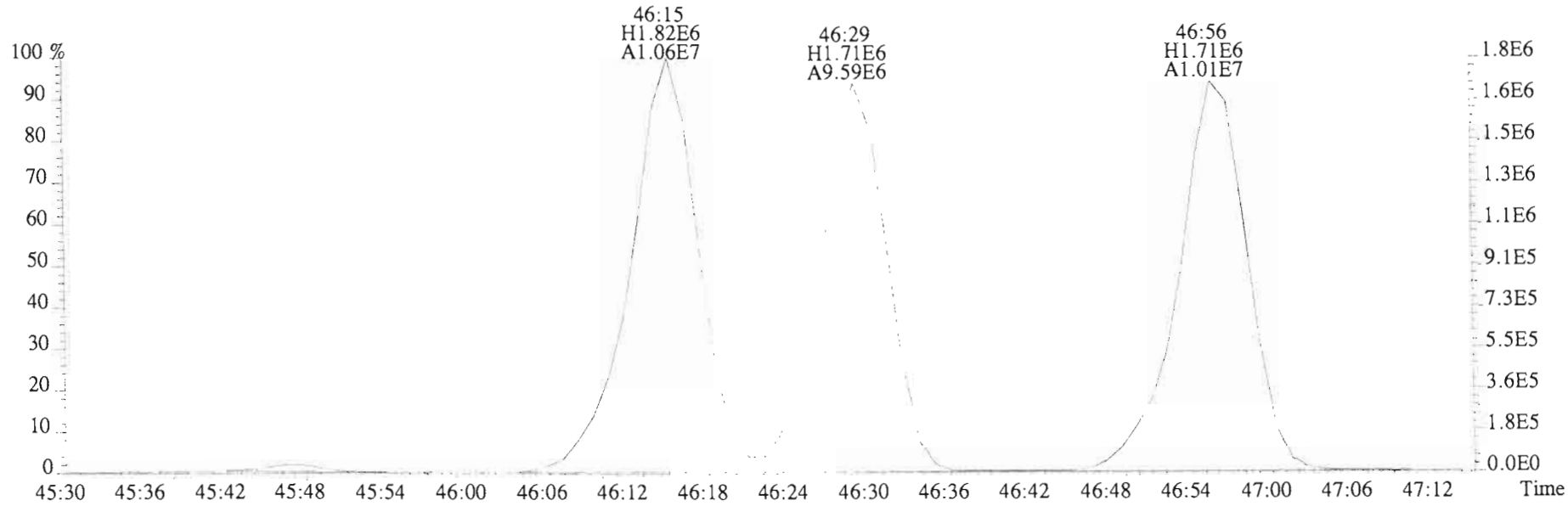
361.8385 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5756.0,0.00%,F,F)



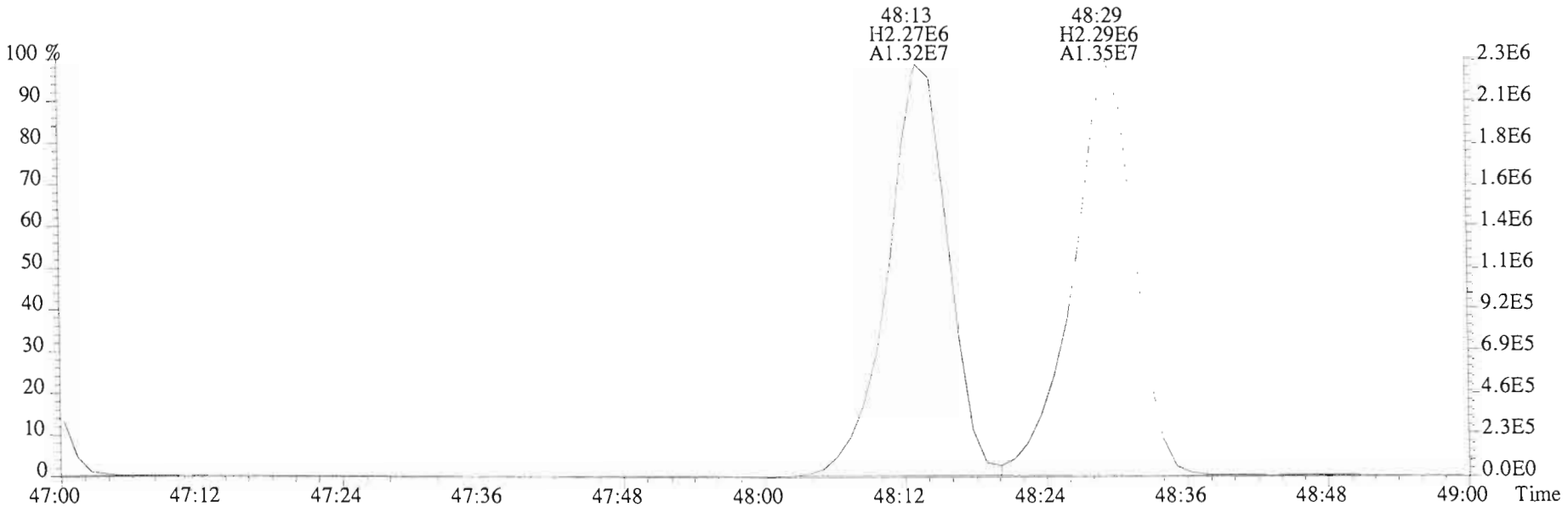
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3868.0,0.00%,F,F)



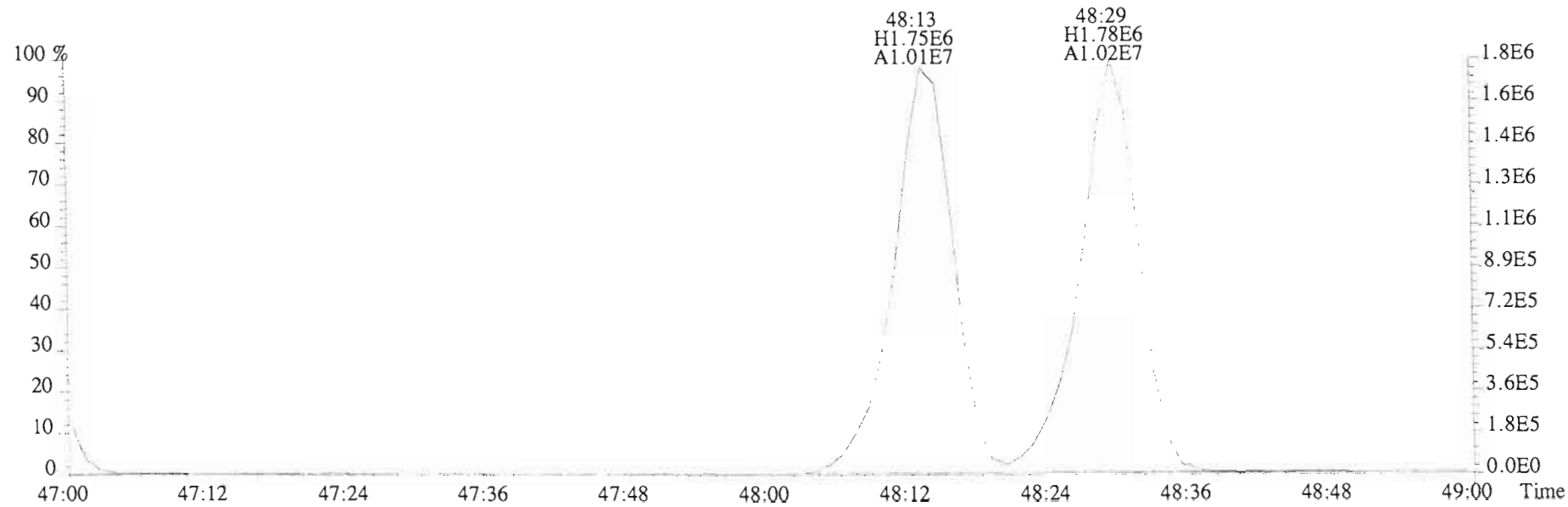
373.8788 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4412.0,0.00%,F,F)



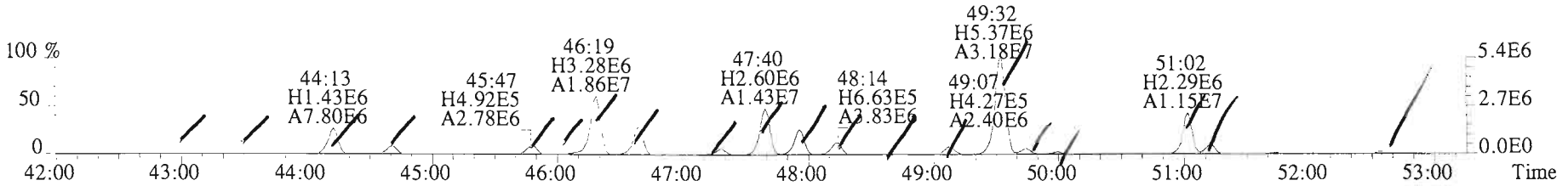
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
371.8817 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3868.0,0.00%,F,F)



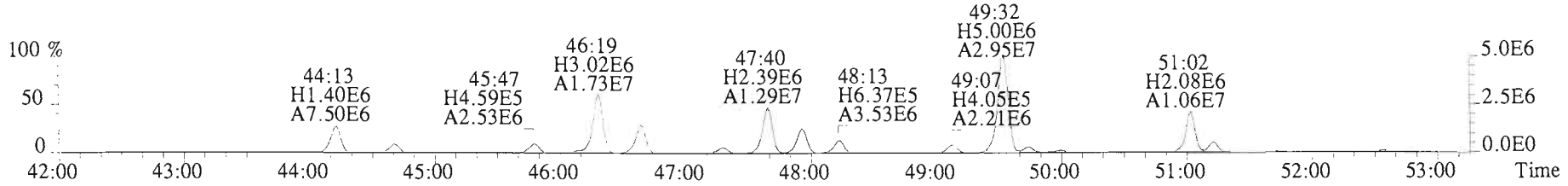
373.8788 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4412.0,0.00%,F,F)



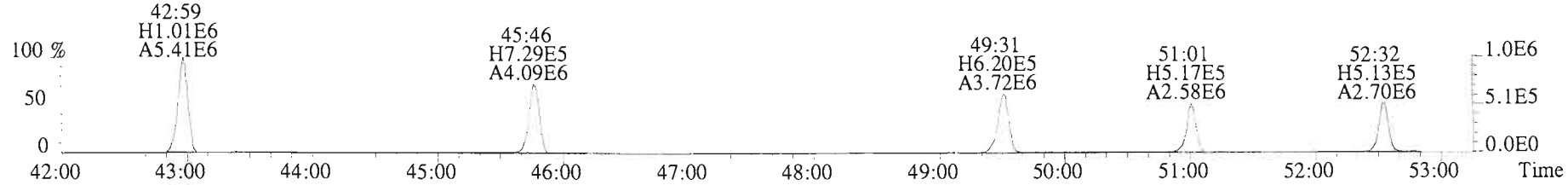
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1968.0,0.00%,F,F)



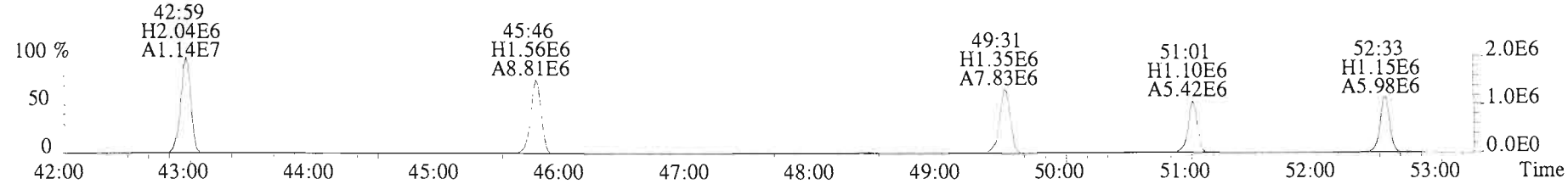
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2296.0,0.00%,F,F)



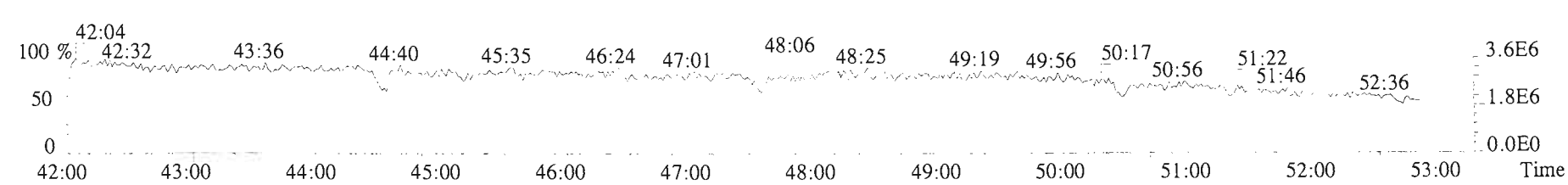
403.8457 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1864.0,0.00%,F,F)



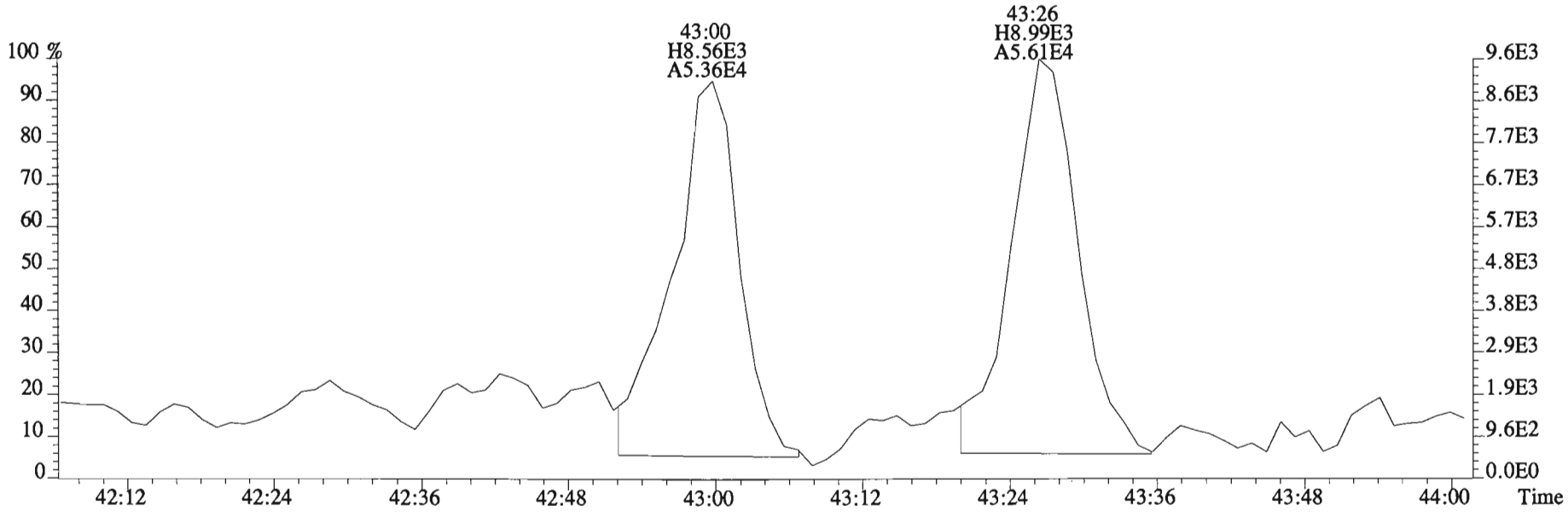
405.8428 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2060.0,0.00%,F,F)



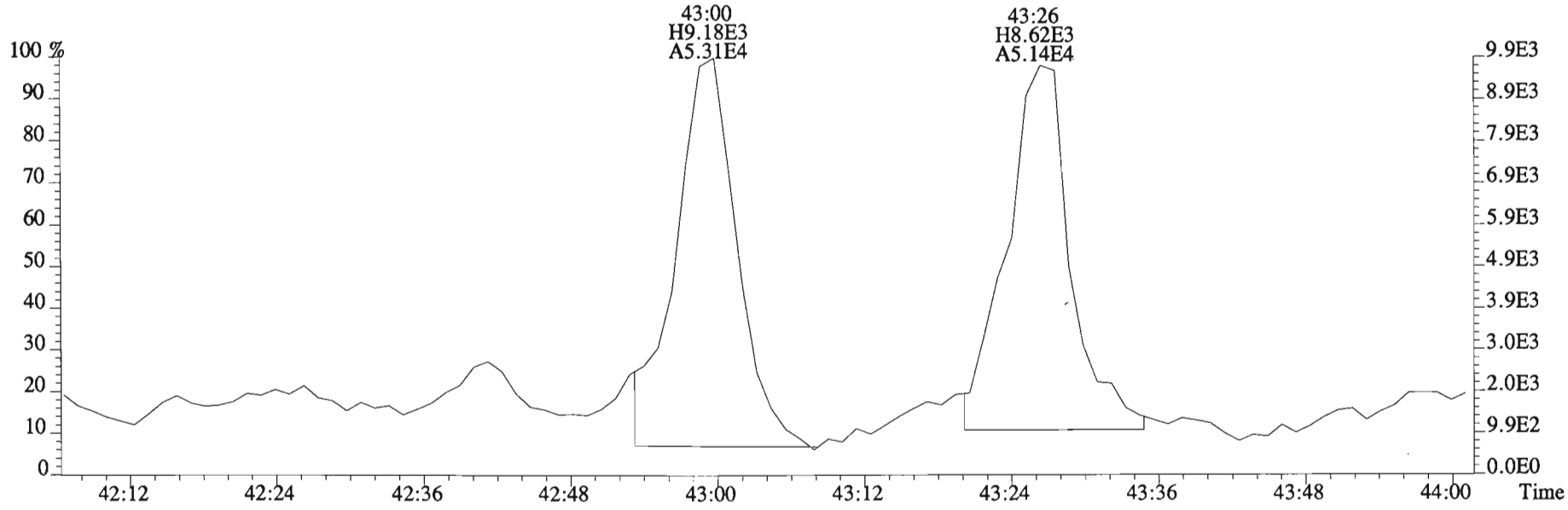
380.9760 S:8 F:4



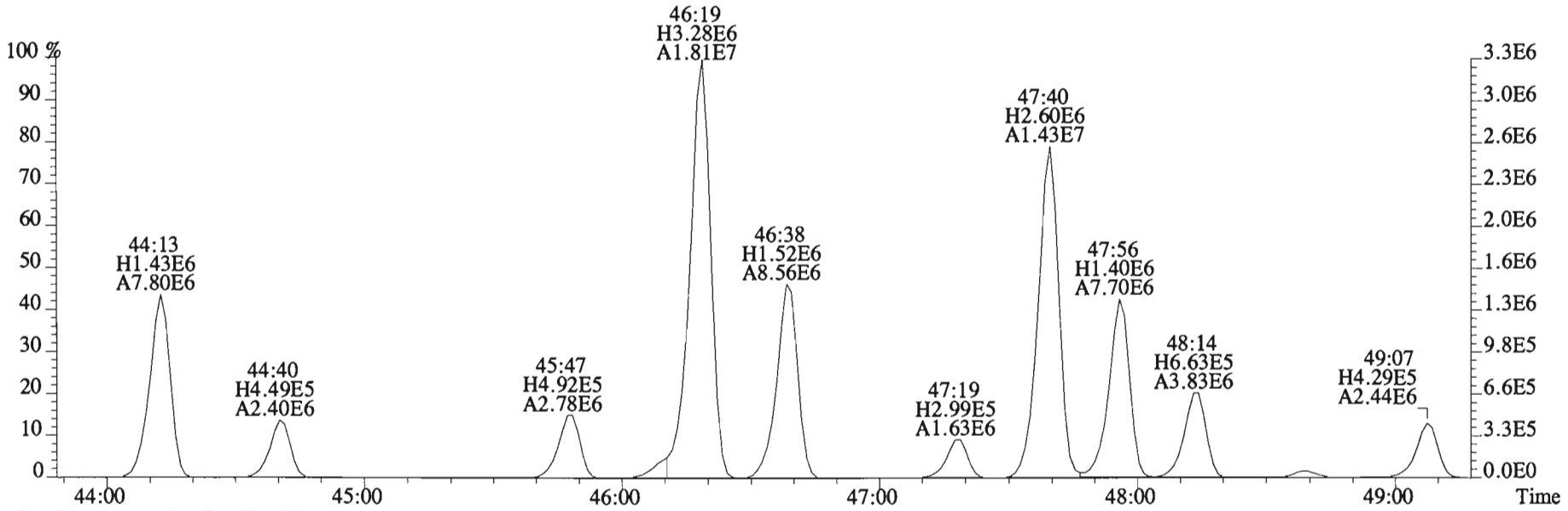
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1968.0,0.00%,F,F)



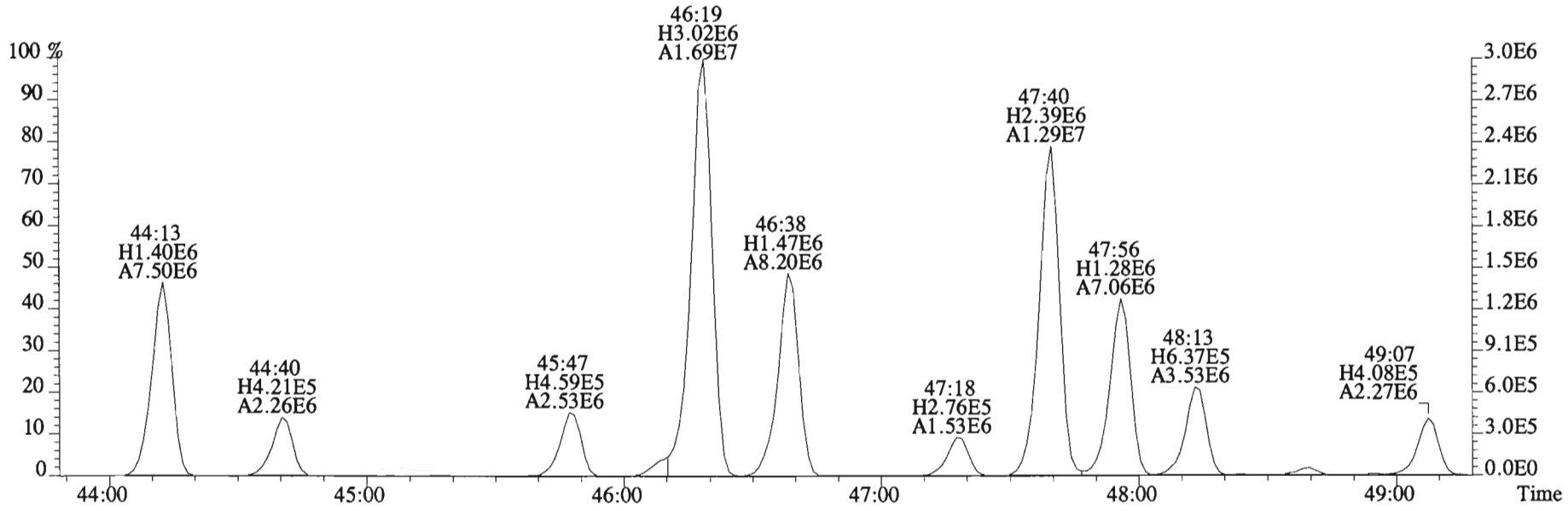
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2296.0,0.00%,F,F)

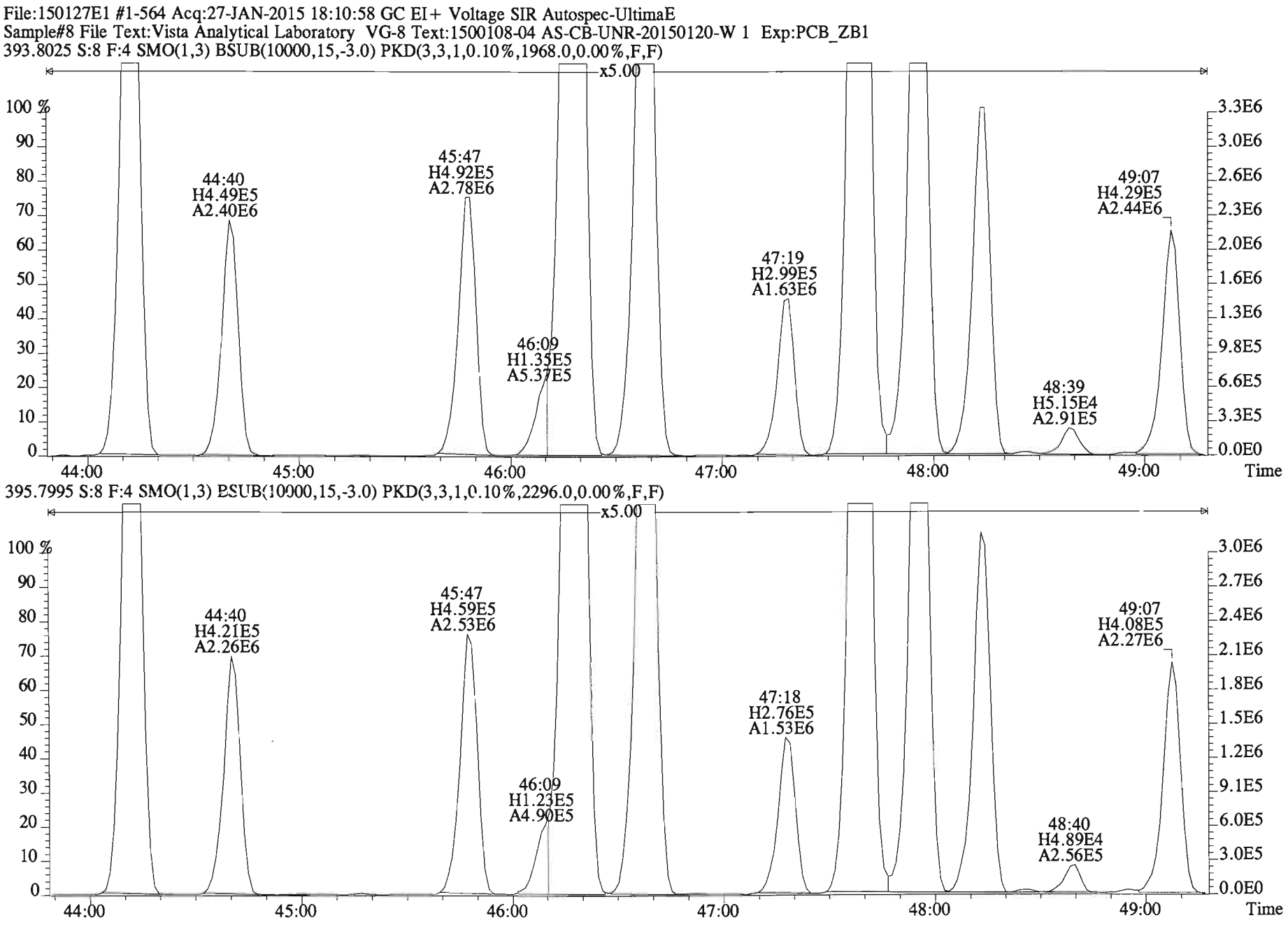


File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1968.0,0.00%,F,F)

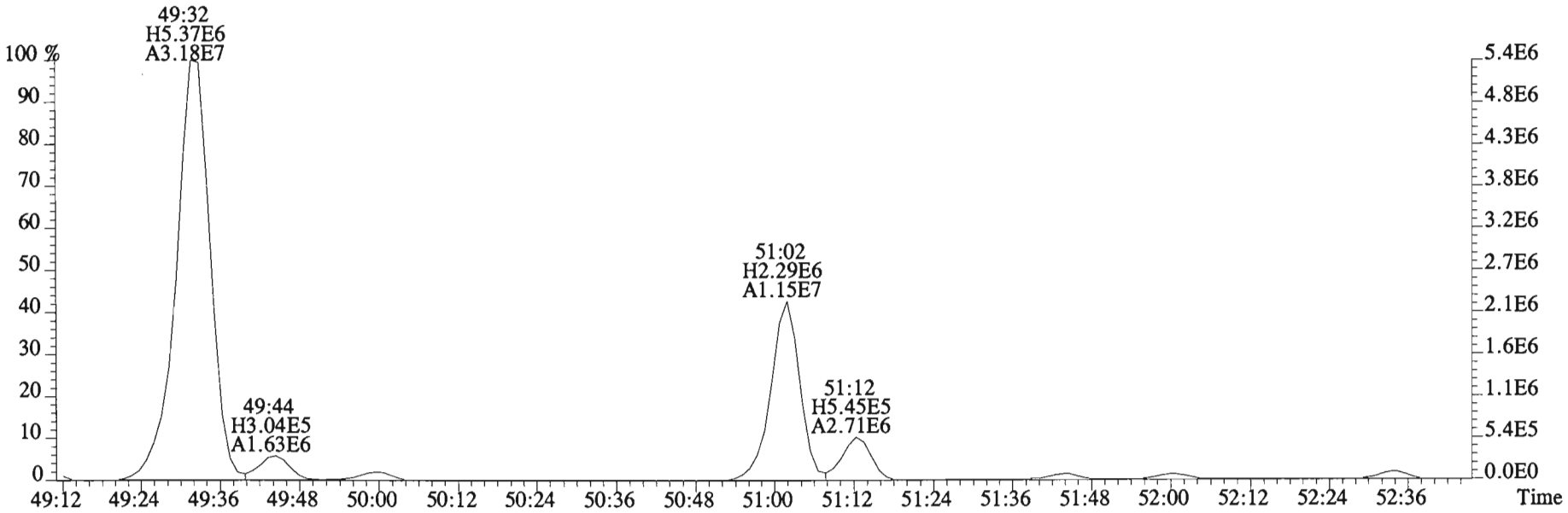


395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2296.0,0.00%,F,F)

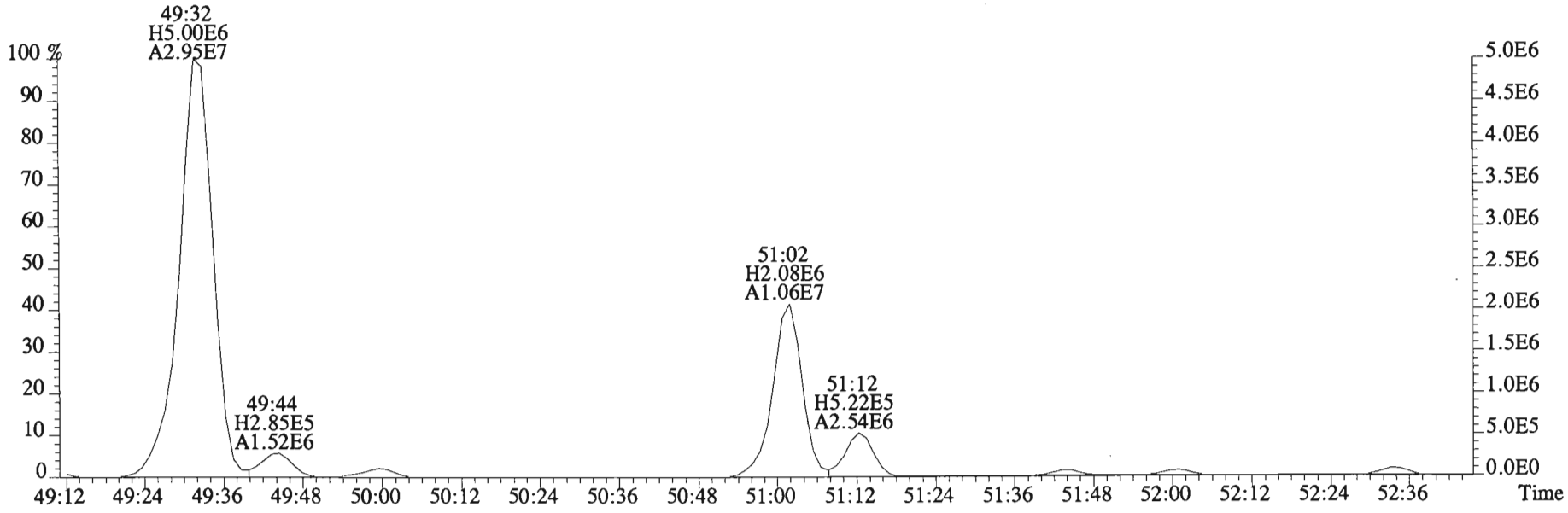



File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1968.0,0.00%,F,F)
x5.00
44:40
H4.49E5
A2.40E6
45:47
H4.92E5
A2.78E6
46:09
H1.35E5
A5.37E5
47:19
H2.99E5
A1.63E6
48:39
H5.15E4
A2.91E5
49:07
H4.29E5
A2.44E6
Time
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2296.0,0.00%,F,F)
x5.00
44:40
H4.21E5
A2.26E6
45:47
H4.59E5
A2.53E6
46:09
H1.23E5
A4.90E5
47:18
H2.76E5
A1.53E6
48:40
H4.89E4
A2.56E5
49:07
H4.08E5
A2.27E6
Time

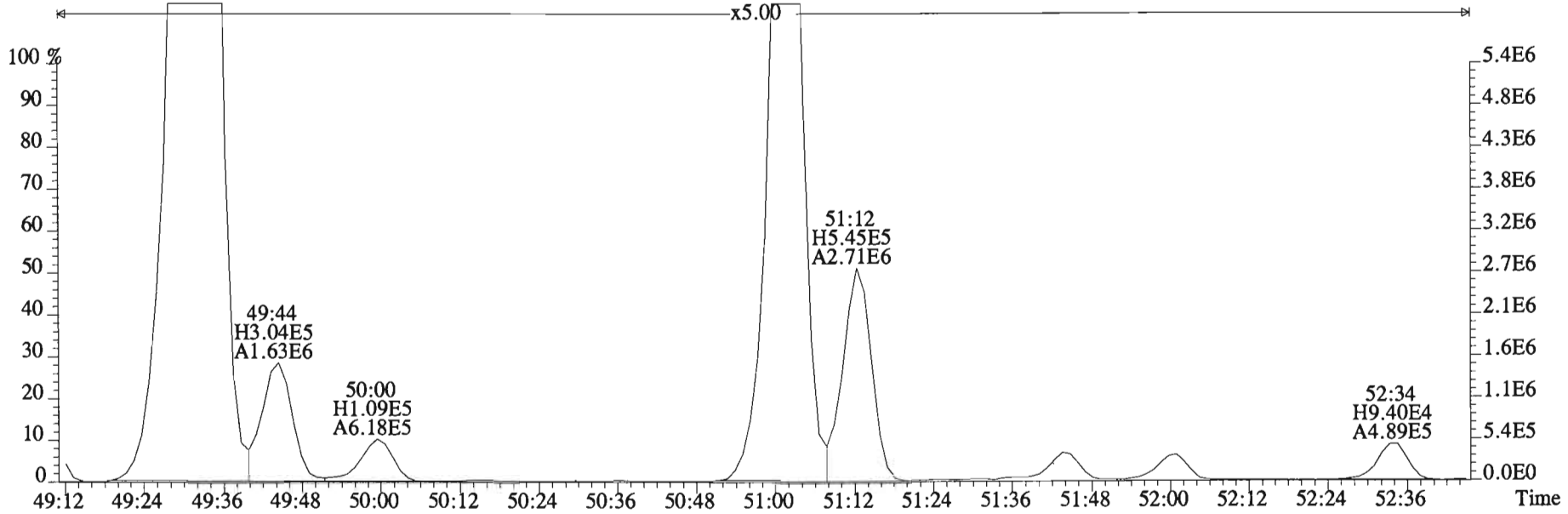
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1968.0,0.00%,F,F)



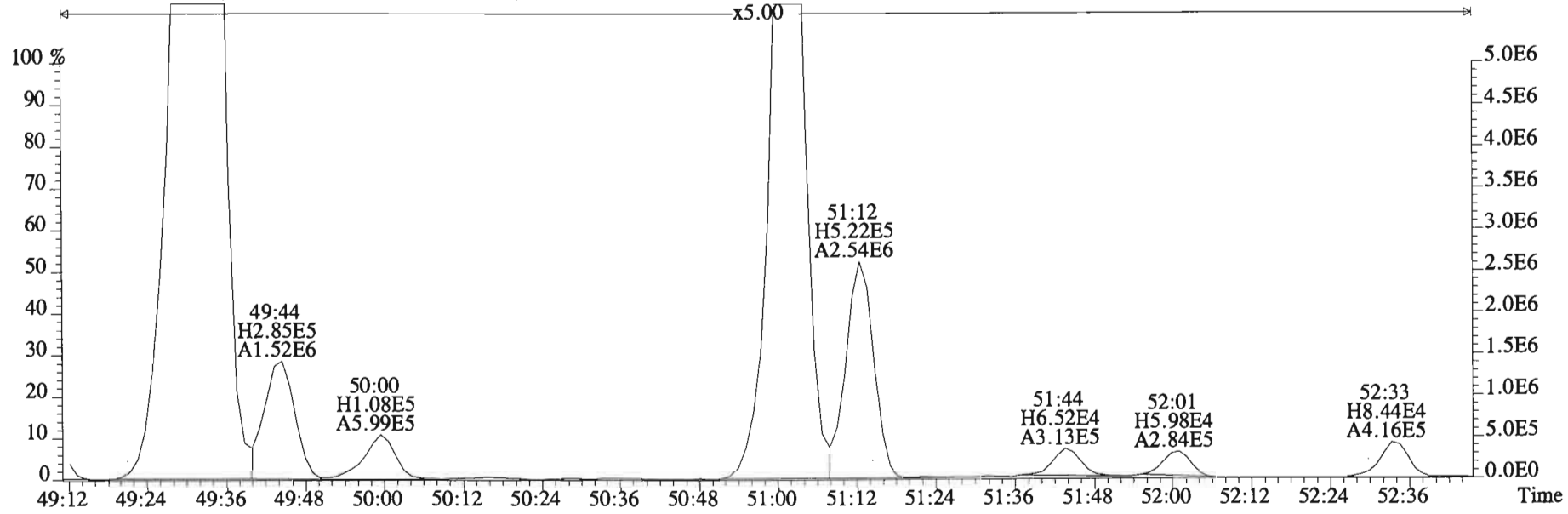
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2296.0,0.00%,F,F)



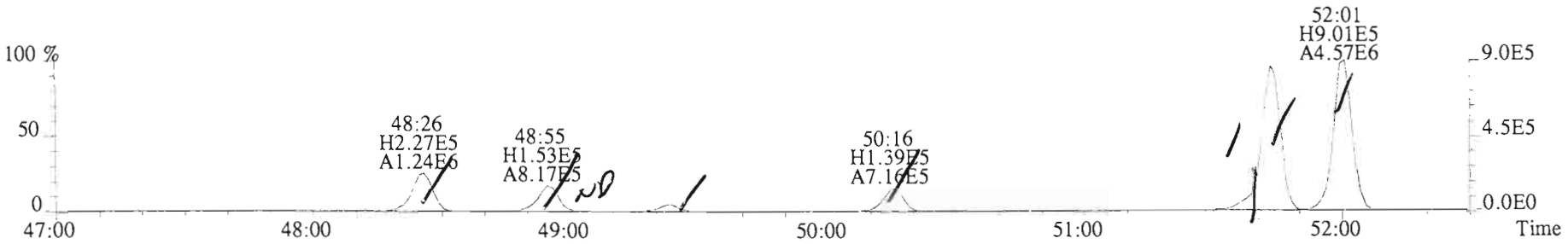
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
393.8025 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1968.0,0.00%,F,F)



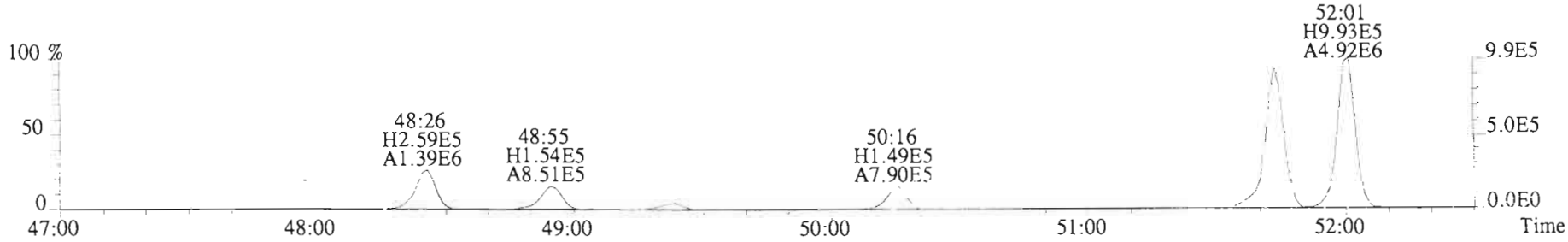
395.7995 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2296.0,0.00%,F,F)



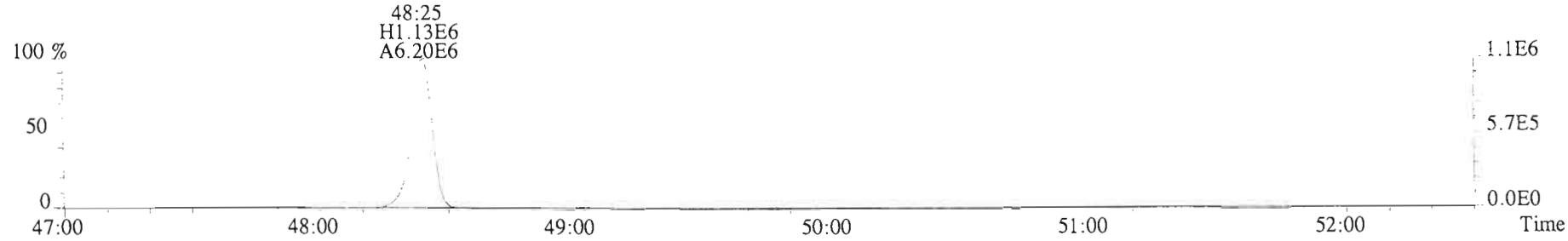
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1680.0,0.00%,F,F)



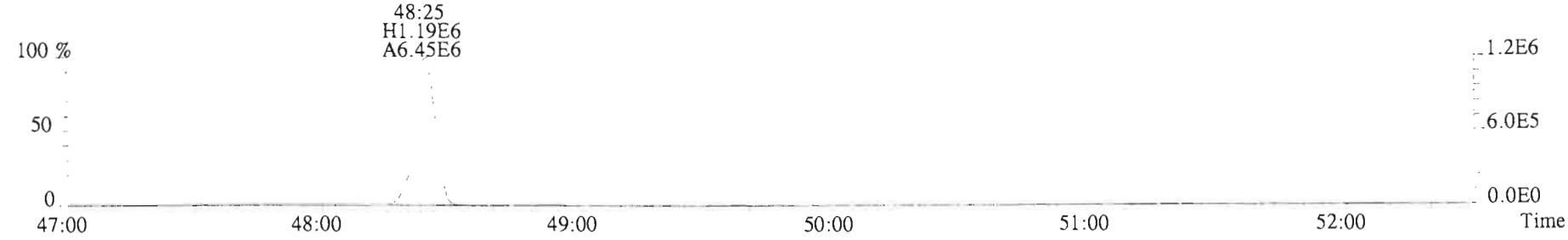
429.7606 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1652.0,0.00%,F,F)



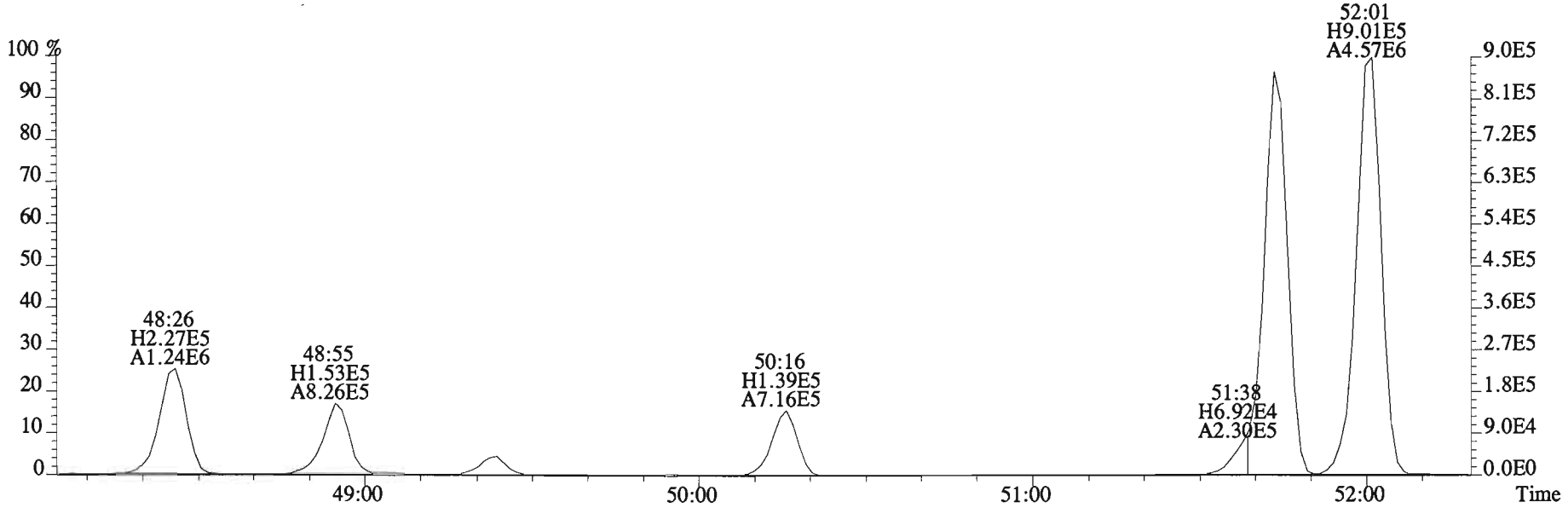
439.8038 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1656.0,0.00%,F,F)



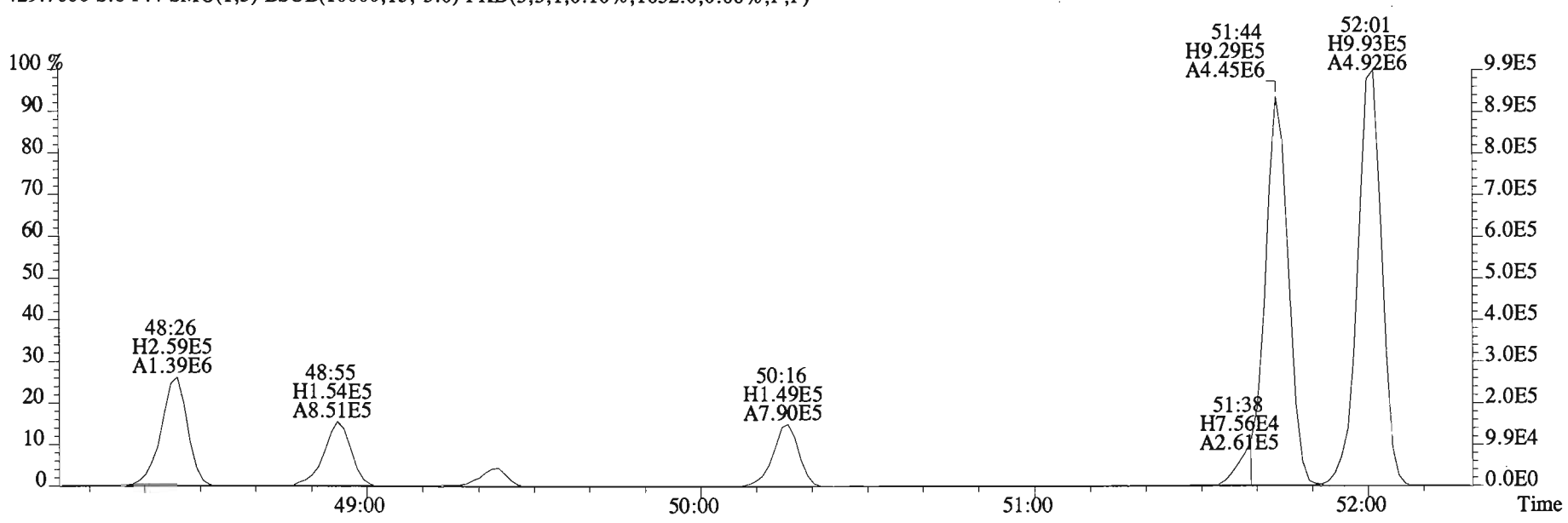
441.8008 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1972.0,0.00%,F,F)



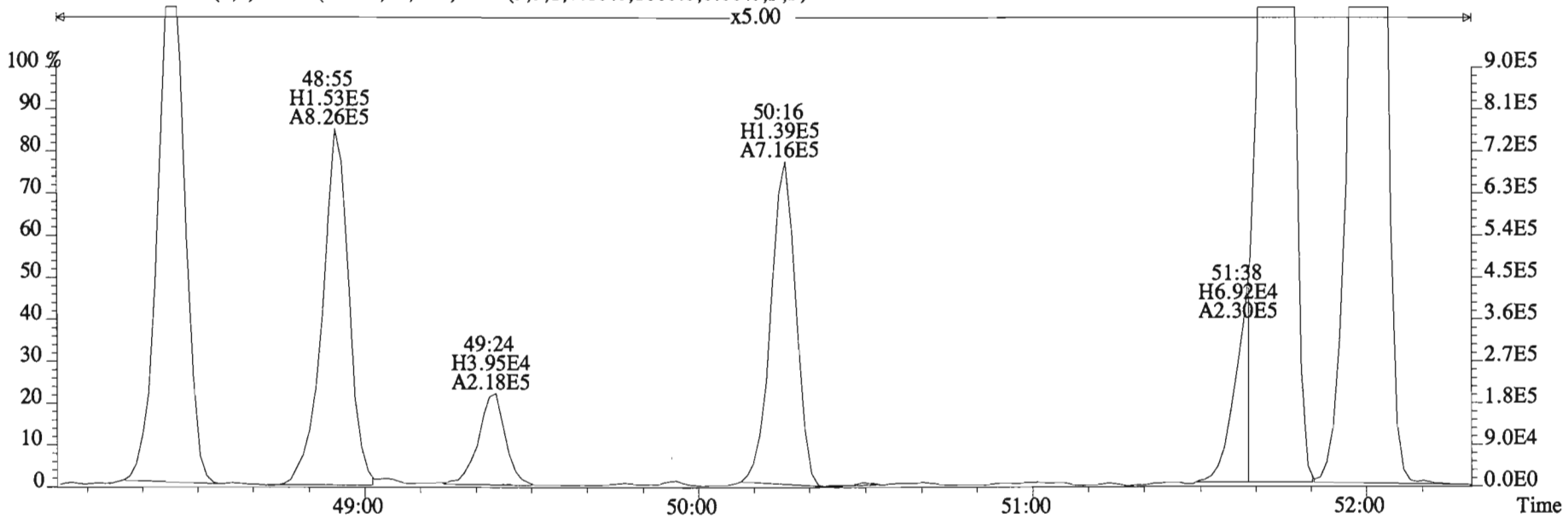
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1680.0,0.00%,F,F)



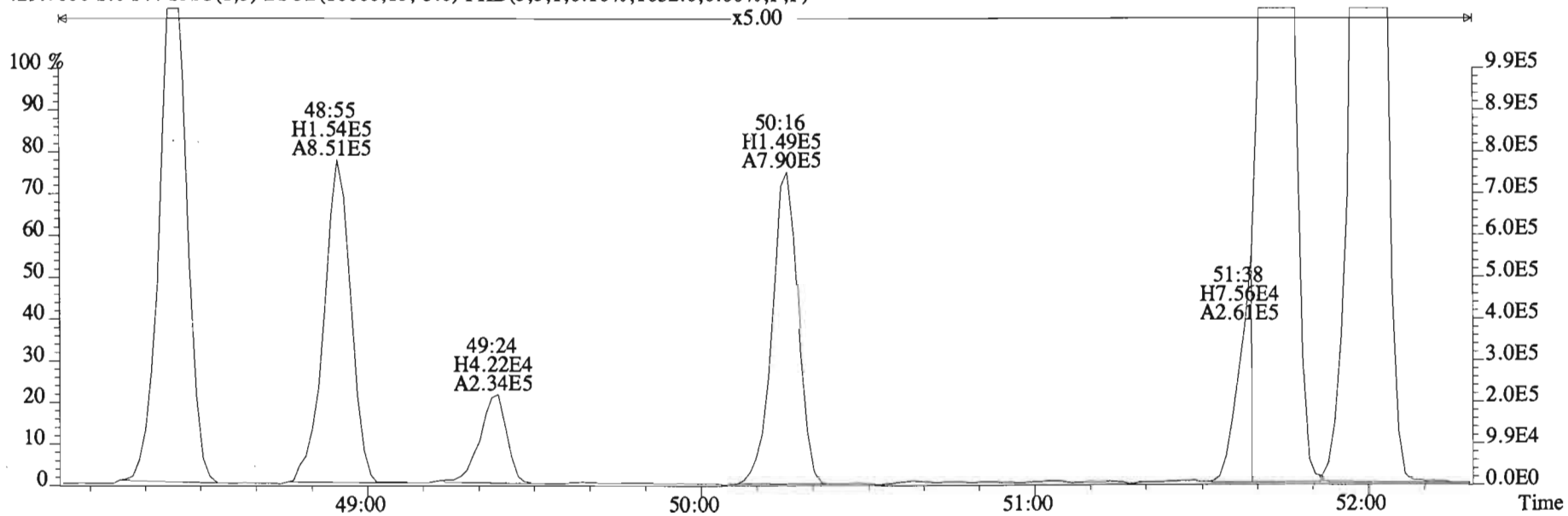
429.7606 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1652.0,0.00%,F,F)



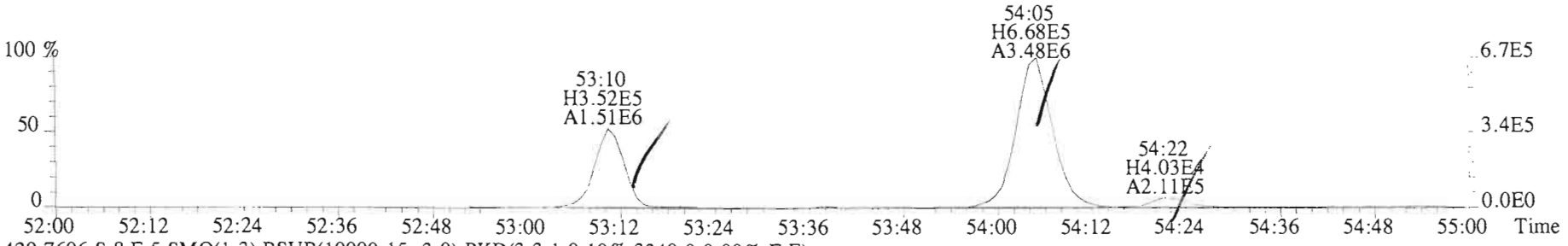
File:150127E1 #1-564 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
427.7635 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1680.0,0.00%,F,F)



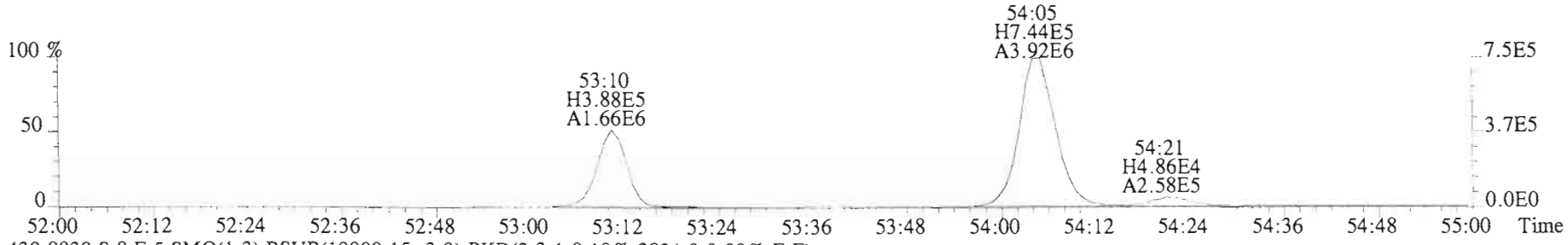
429.7606 S:8 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1652.0,0.00%,F,F)



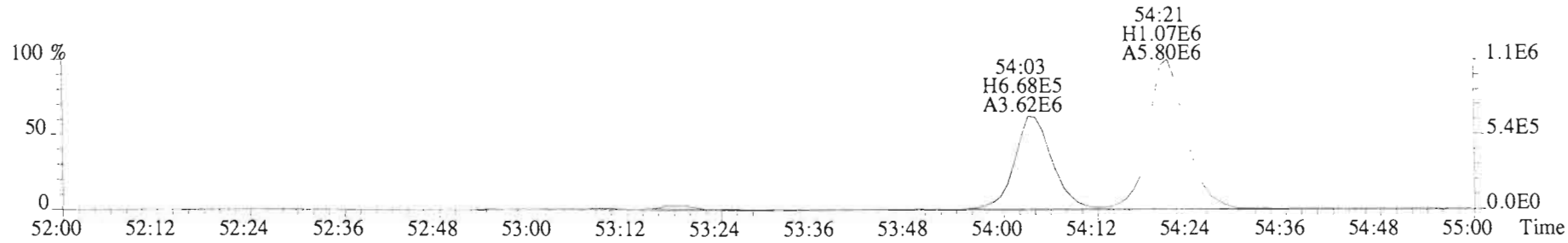
File:150127E1 #1-412 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
427.7635 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2000.0,0.00%,F,F)



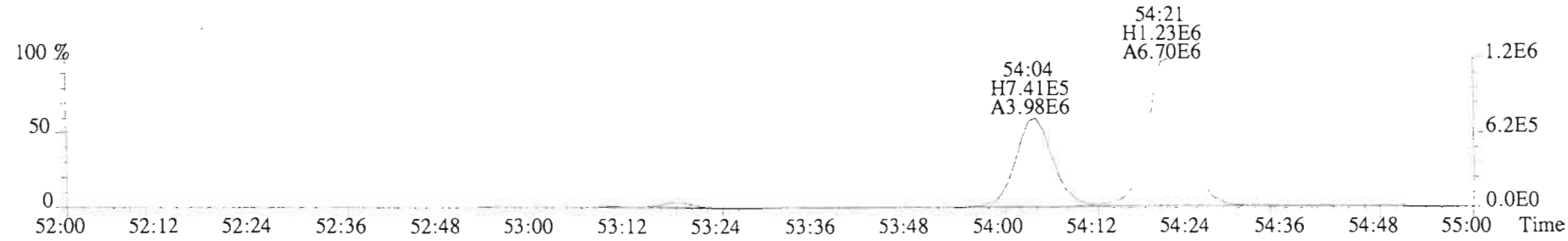
429.7606 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3340.0,0.00%,F,F)



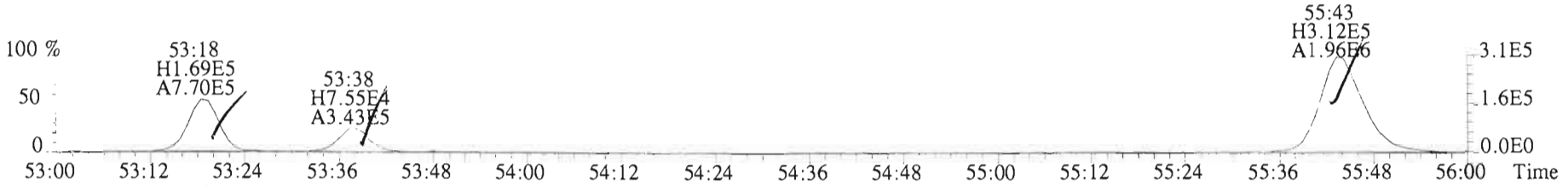
439.8038 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2824.0,0.00%,F,F)



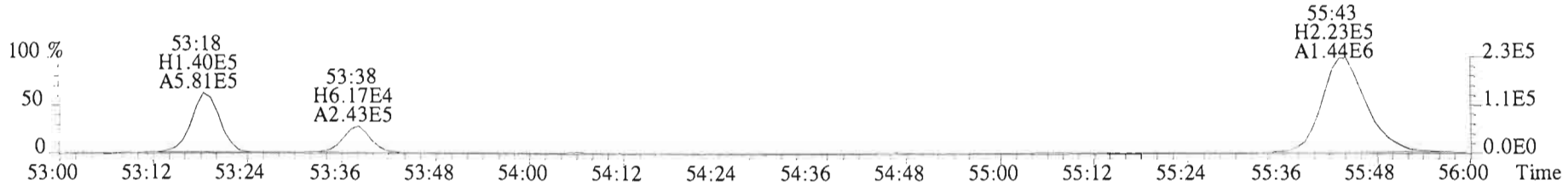
441.8008 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3228.0,0.00%,F,F)



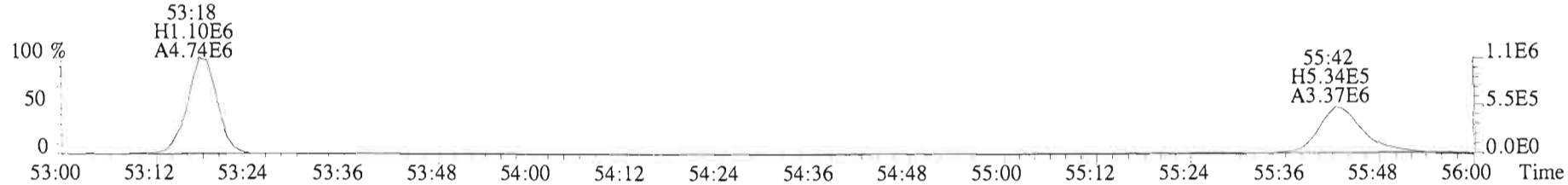
File:150127E1 #1-412 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
463.7216 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1744.0,0.00%,F,F)



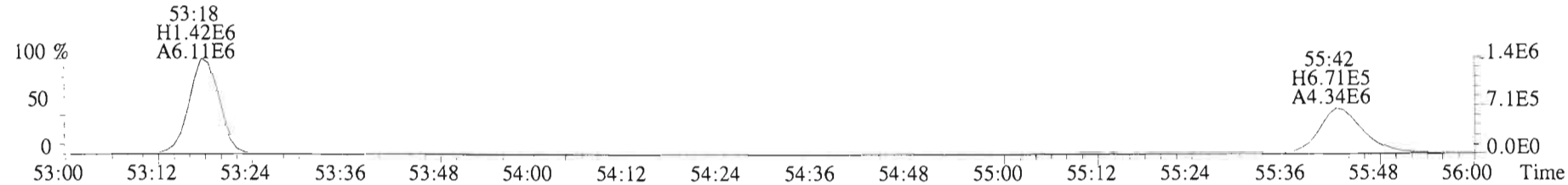
465.7186 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2008.0,0.00%,F,F)



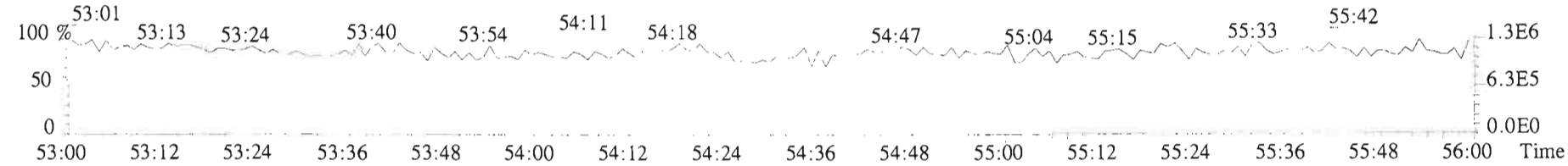
473.7648 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2236.0,0.00%,F,F)



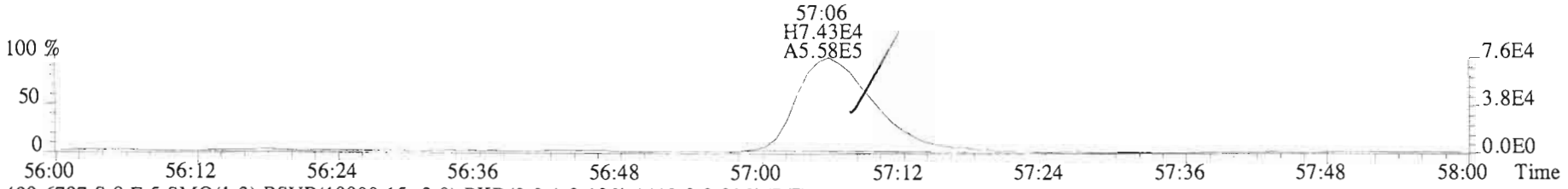
475.7619 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2788.0,0.00%,F,F)



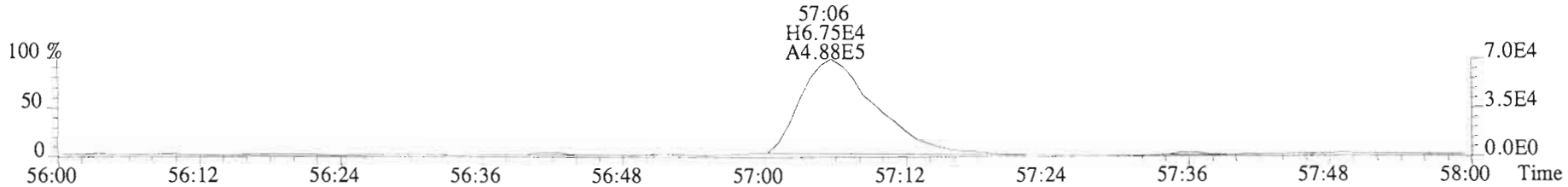
492.9697 S:8 F:5



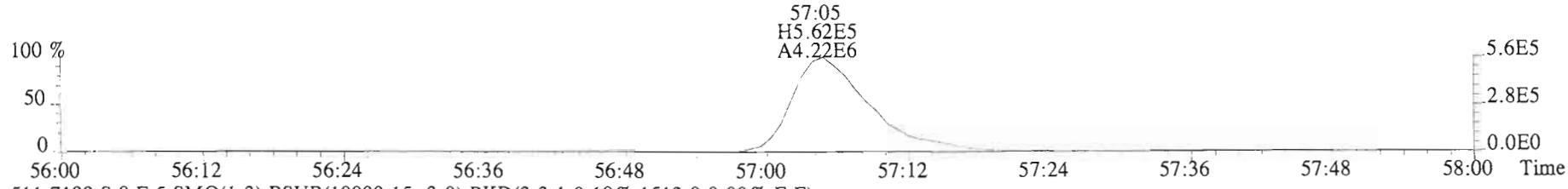
File:150127E1 #1-412 Acq:27-JAN-2015 18:10:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-8 Text:1500108-04 AS-CB-UNR-20150120-W 1 Exp:PCB_ZB1
497.6826 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1508.0,0.00%,F,F)



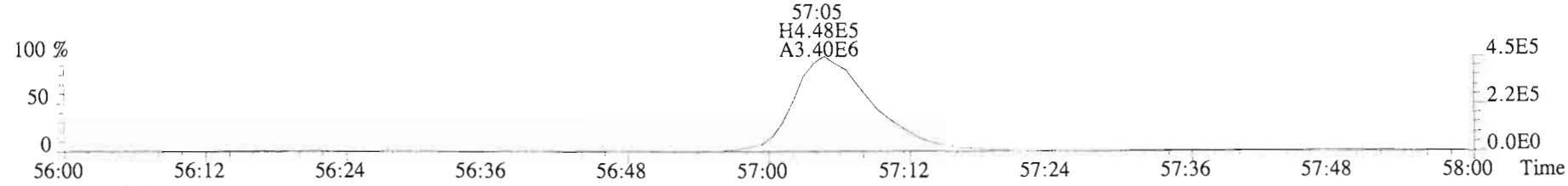
499.6797 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1412.0,0.00%,F,F)



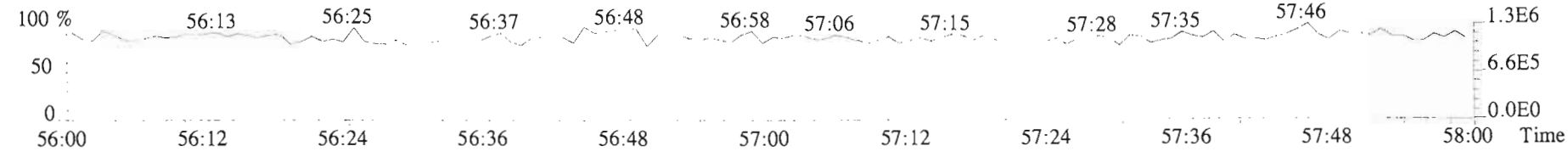
509.7229 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1228.0,0.00%,F,F)



511.7199 S:8 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1512.0,0.00%,F,F)



492.9697 S:8 F:5



CONFIRMATION

Dataset: C:\MassLynx\Default.pro\Results\150205F2\150205F2_5.qld

Last Altered: Friday, February 06, 2015 09:44:41 Pacific Standard Time
Printed: Friday, February 06, 2015 09:45:11 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 27 Jan 2015 16:23:49
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Name: 150205F2_5, Date: 05-Feb-2015, Time: 16:57:30, ID: 1500108-01RE1 AS-CB-02-20150120-S CF 25.91, Description: AS-CB-02-20150120-S CF

	#-Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.63e4	0.80	NO	1.10	10.113	17.54	4.0844		0.137
2	2 13C-2,3,7,8-TCDF	1.16e6	0.75	NO	0.844	10.113	17.51	180.90	91.5	0.475
3	3 13C-1,2,3,4-TCDF	1.50e6	0.78	NO	1.00	10.113	15.29	197.76	100	0.401

CJS 2/6/15

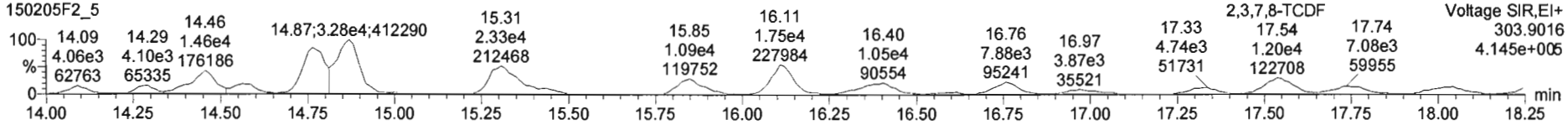
2/9/15

Dataset: Untitled

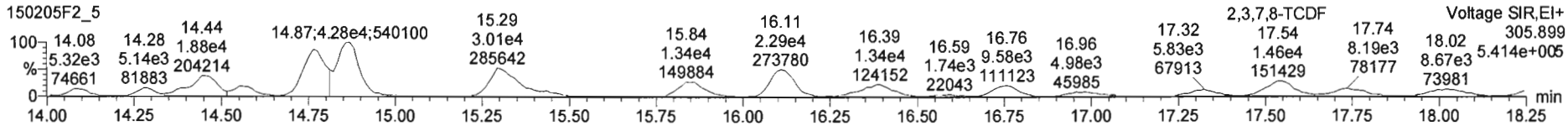
Last Altered: Friday, February 06, 2015 09:14:07 Pacific Standard Time
Printed: Friday, February 06, 2015 09:14:47 Pacific Standard Time

Name: 150205F2_5, Date: 05-Feb-2015, Time: 16:57:30, ID: 1500108-01RE1 AS-CB-02-20150120-S CF 25.91, Description: AS-CB-02-20150120-S CF

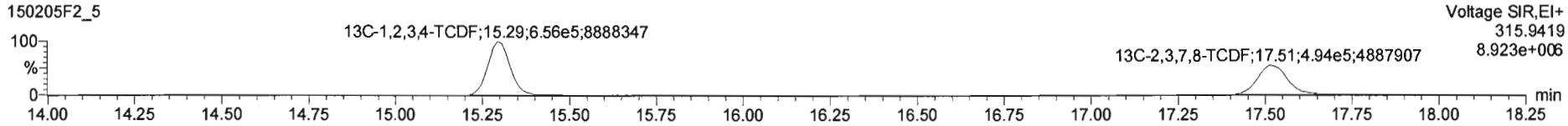
2,3,7,8-TCDF



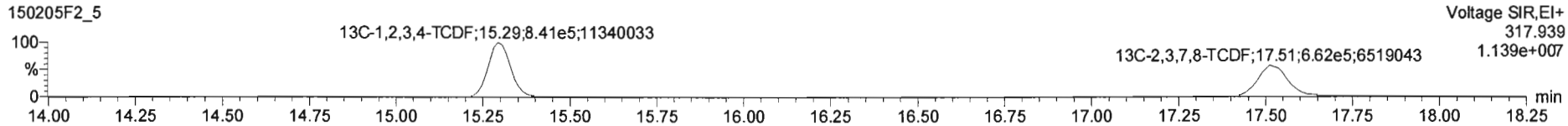
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



13C-2,3,7,8-TCDF

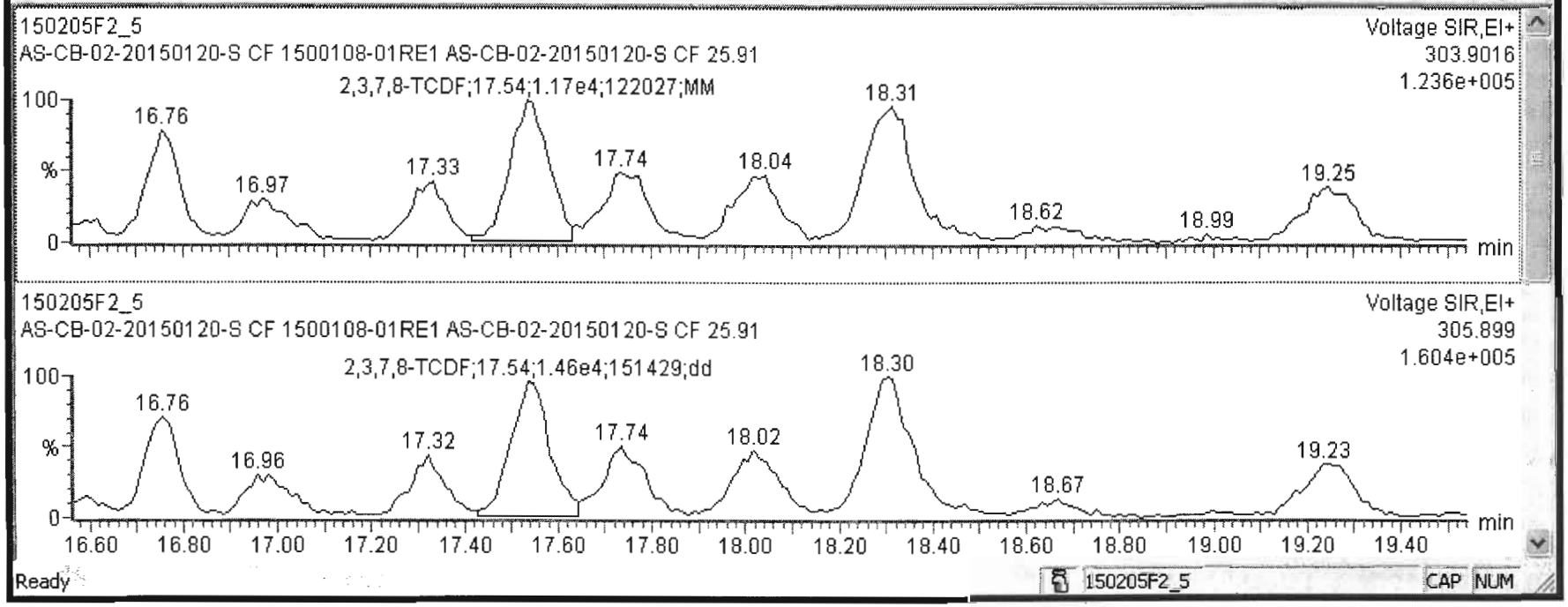


TargetLynx - untitled * - [Chromatogram]

File Edit View Display Processing Window Help

150205F2_5 - 1500108-01RE1 AS-CB-02-20150120-S CF 25.91 - AS-CB-02-20150120-S CF

	#	Name	Resp	RA	n/y	RRF	wt/vol	RT	Conc.	%Rec	DL
1	1	2,3,7,8-TCDF	2.63e4	0.80	NO	1.10	10.113	17.54	4.08		0.137
2	2	13C-2,3,7,8-TCDF	1.16e6	0.75	NO	0.84	10.113	17.51	181	91.5	0.475
3	3	13C-1,2,3,4-TCDF	1.50e6	0.78	NO	1.00	10.113	15.29	198	100	0.401
4	4	13C-1,2,3,4-TCDD	1.24e6	0.81	NO		10.113	16.07			
5	5	PFK1					1.000				
6	6	DPE1					1.000				



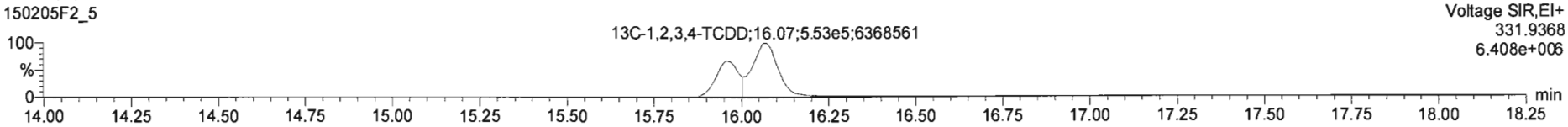
Ready 150205F2_5 CAP NUM

Dataset: Untitled

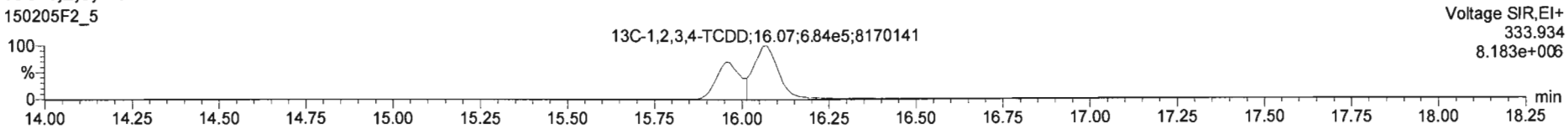
Last Altered: Friday, February 06, 2015 09:14:07 Pacific Standard Time
Printed: Friday, February 06, 2015 09:14:47 Pacific Standard Time

Name: 150205F2_5, Date: 05-Feb-2015, Time: 16:57:30, ID: 1500108-01RE1 AS-CB-02-20150120-S CF 25.91, Description: AS-CB-02-20150120-S CF

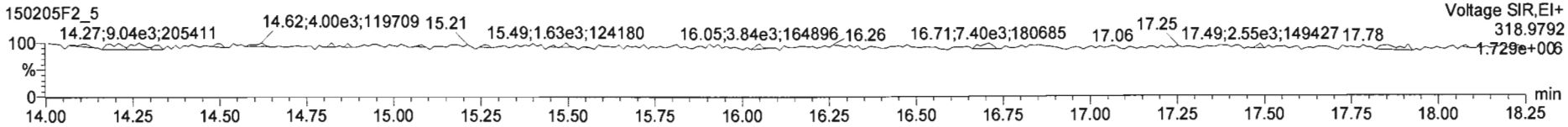
13C-1,2,3,4-TCDD



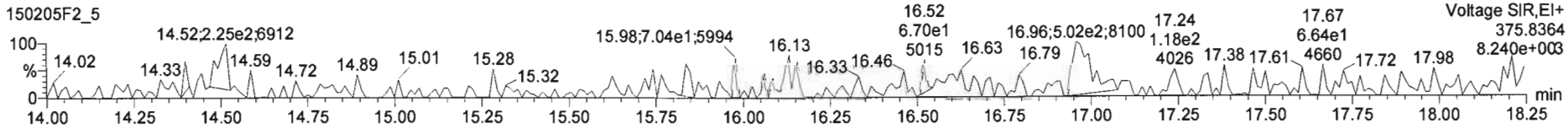
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: C:\MassLynx\Default.pro\Results\150205F2\150205F2_6.qld

Last Altered: Friday, February 06, 2015 09:46:00 Pacific Standard Time
Printed: Friday, February 06, 2015 09:46:42 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 27 Jan 2015 16:23:49
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Name: 150205F2_6, Date: 05-Feb-2015, Time: 17:29:52, ID: 1500108-02RE1 AS-CB-05-20150120-S CF 27.43, Description: AS-CB-05-20150120-S CF

	#-Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.08e4	0.80	NO	1.10	10.047	17.55	7.0970		0.184
2	2 13C-2,3,7,8-TCDF	1.29e6	0.78	NO	0.844	10.047	17.54	179.23	90.0	0.412
3	3 13C-1,2,3,4-TCDF	1.70e6	0.77	NO	1.00	10.047	15.29	199.07	100	0.347

CJS 2/6/15

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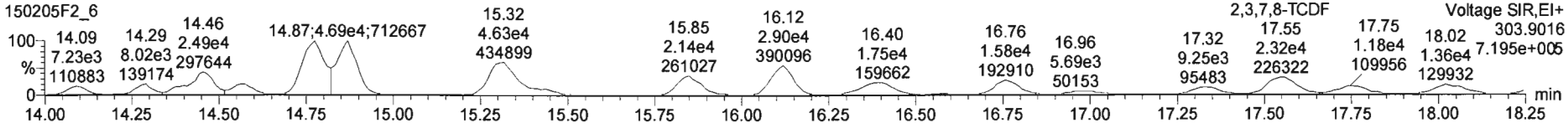
Dataset: Untitled

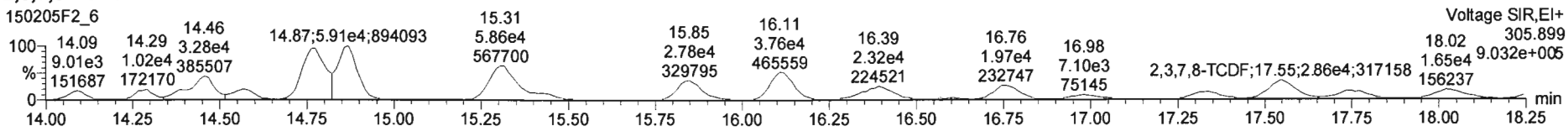
Last Altered: Friday, February 06, 2015 09:14:07 Pacific Standard Time
Printed: Friday, February 06, 2015 09:14:47 Pacific Standard Time

Name: 150205F2_6, Date: 05-Feb-2015, Time: 17:29:52, ID: 1500108-02RE1 AS-CB-05-20150120-S CF 27.43, Description: AS-CB-05-20150120-S CF

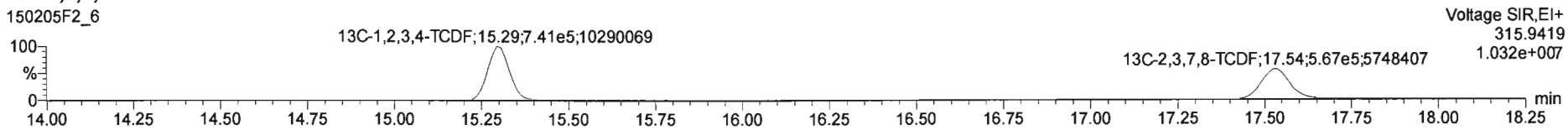
2,3,7,8-TCDF



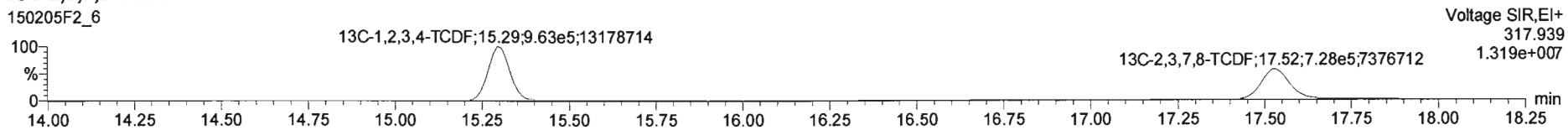
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



13C-2,3,7,8-TCDF

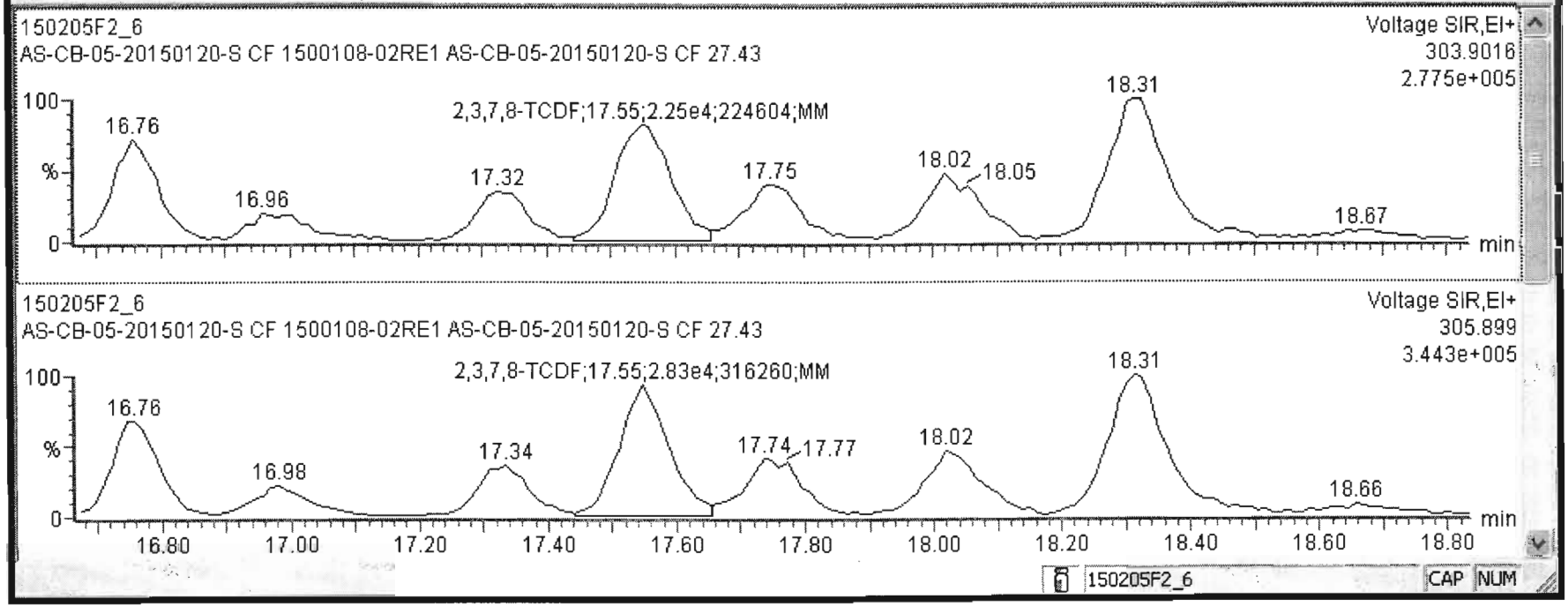


TargetLynx - untitled * - [Chromatogram]

File Edit View Display Processing Window Help

150205F2_6 - 1500108-02RE1 AS-CB-05-20150120-S CF 27.43 - AS-CB-05-20150120-S CF

	#	Name	Resp	RA	n/y	RRF	wt/vol	RT	Conc.	%Rec	DL
1	1	2,3,7,8-TCDF	5.08e4	0.80	NO	1.10	10.047	17.55	7.10		0.184
2	2	13C-2,3,7,8-TCDF	1.29e6	0.78	NO	0.84	10.047	17.54	179	90.0	0.412
3	3	13C-1,2,3,4-TCDF	1.70e6	0.77	NO	1.00	10.047	15.29	199	100	0.347
4	4	13C-1,2,3,4-TCDD	1.30e6	0.79	NO		10.047	16.07			
5	5	PFK1					1.000				
6	6	DPE1					1.000				

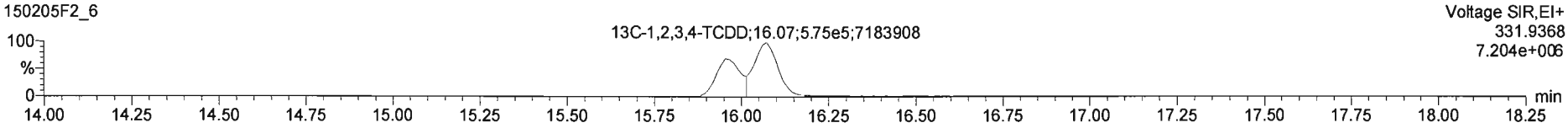


Dataset: Untitled

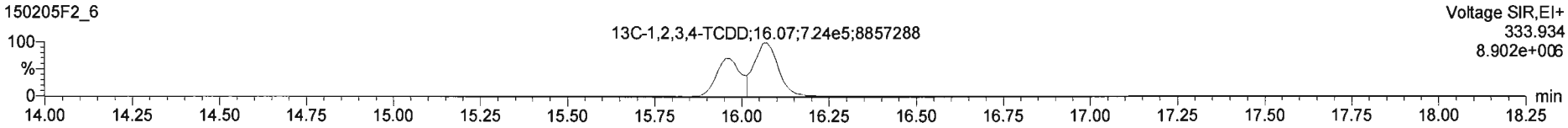
Last Altered: Friday, February 06, 2015 09:14:07 Pacific Standard Time
Printed: Friday, February 06, 2015 09:14:47 Pacific Standard Time

Name: 150205F2_6, Date: 05-Feb-2015, Time: 17:29:52, ID: 1500108-02RE1 AS-CB-05-20150120-S CF 27.43, Description: AS-CB-05-20150120-S CF

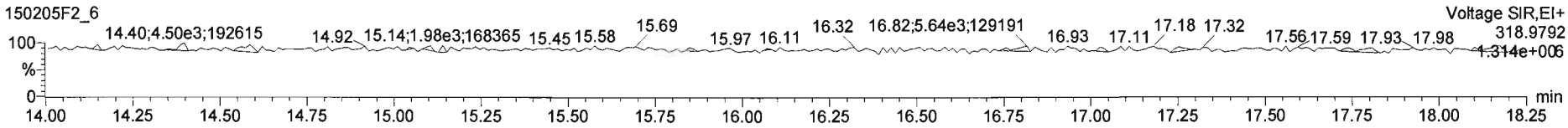
13C-1,2,3,4-TCDD



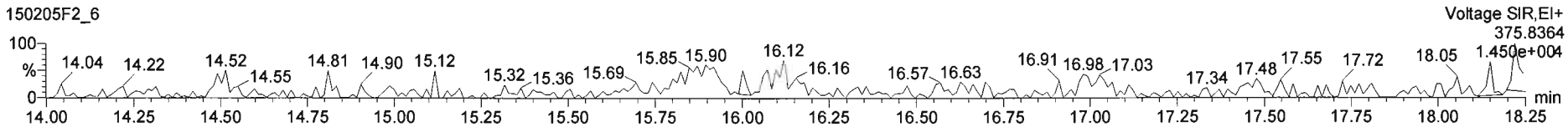
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: C:\MassLynx\Default.pro\Results\150205F2\150205F2_7.qld

Last Altered: Friday, February 06, 2015 09:48:16 Pacific Standard Time
Printed: Friday, February 06, 2015 09:48:37 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 27 Jan 2015 16:23:49
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Name: 150205F2_7, Date: 05-Feb-2015, Time: 18:02:19, ID: 1500108-03RE1 AS-CB-UNR-20150120-S CF 15.93, Description: AS-CB-UNR-20150120-S CF

	#-Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	3.23e4	0.80	NO	1.10	10.042	17.56	4.5170		0.135
2	2 13C-2,3,7,8-TCDF	1.29e6	0.75	NO	0.844	10.042	17.54	182.37	91.6	0.444
3	3 13C-1,2,3,4-TCDF	1.67e6	0.76	NO	1.00	10.042	15.31	199.16	100	0.375

CJ 2/6/15

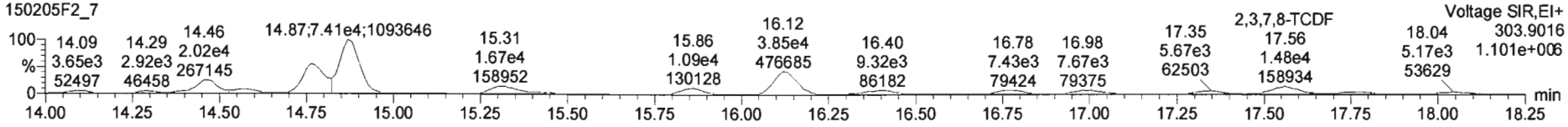
4/2 2/9/15

Dataset: Untitled

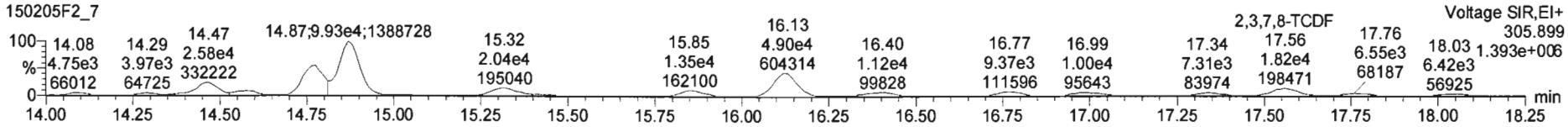
Last Altered: Friday, February 06, 2015 09:14:07 Pacific Standard Time
Printed: Friday, February 06, 2015 09:14:47 Pacific Standard Time

Name: 150205F2_7, Date: 05-Feb-2015, Time: 18:02:19, ID: 1500108-03RE1 AS-CB-UNR-20150120-S CF 15.93, Description: AS-CB-UNR-20150120-S CF

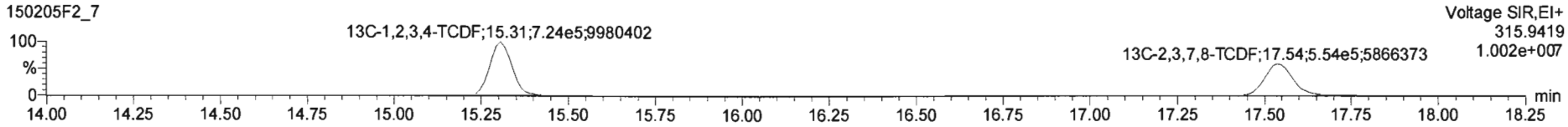
2,3,7,8-TCDF



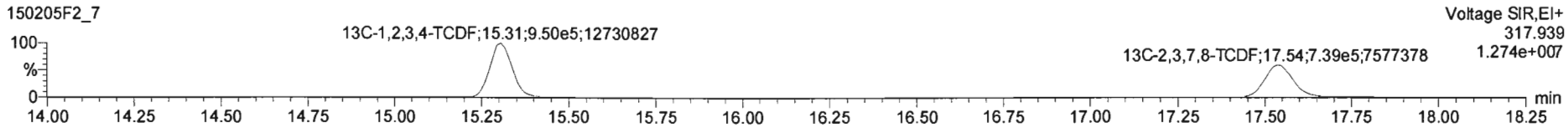
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



13C-2,3,7,8-TCDF

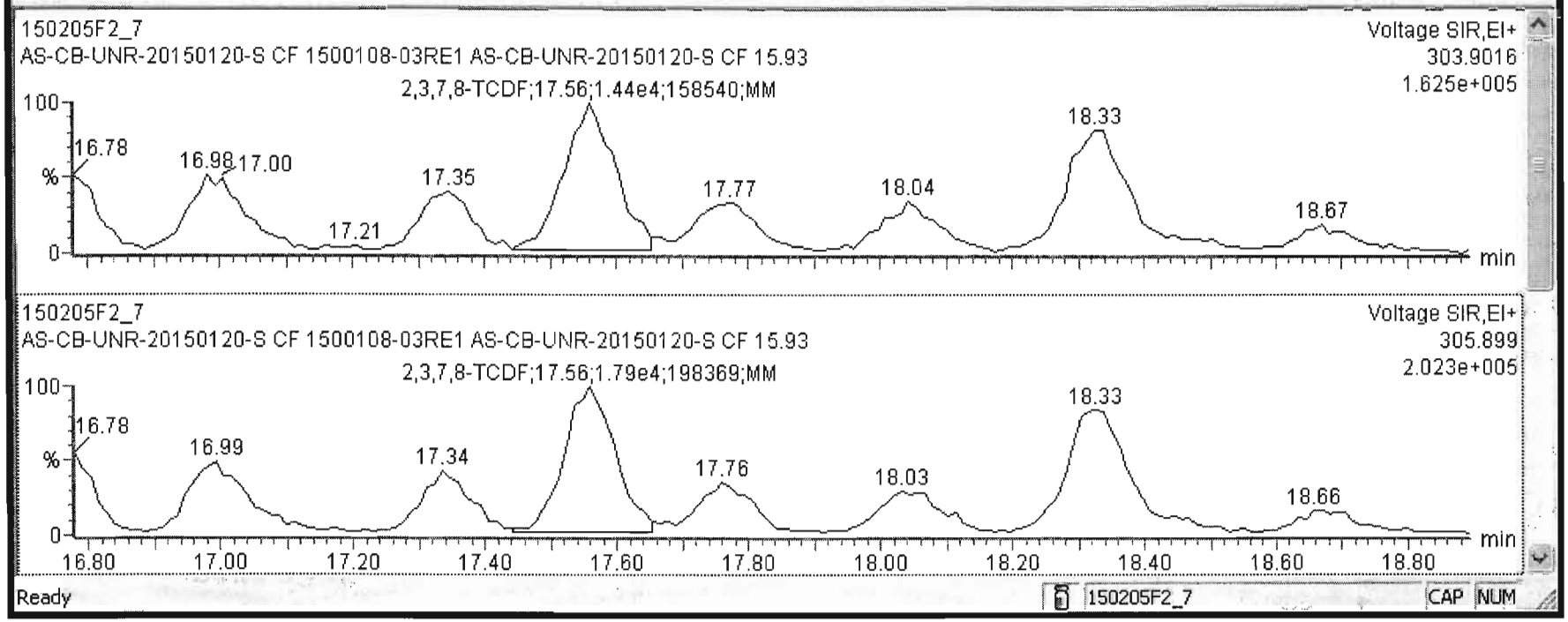


TargetLynx - untitled * - [Chromatogram]

File Edit View Display Processing Window Help

150205F2_7 - 1500108-03RE1 AS-CB-UNR-20150120-S CF 15.93 - AS-CB-UNR-20150120-S CF

	#	Name	Resp	RA	n/y	RRF	wt/vol	RT	Conc.	%Rec	DL
1	1	2,3,7,8-TCDF	3.23e4	0.80	NO	1.10	10.042	17.56	4.52		0.135
2	2	13C-2,3,7,8-TCDF	1.29e6	0.75	NO	0.84	10.042	17.54	182	91.6	0.444
3	3	13C-1,2,3,4-TCDF	1.67e6	0.76	NO	1.00	10.042	15.31	199	100	0.375
4	4	13C-1,2,3,4-TCDD	1.34e6	0.73	NO		10.042	16.08			
5	5	PFK1					1.000				
6	6	DPE1					1.000				



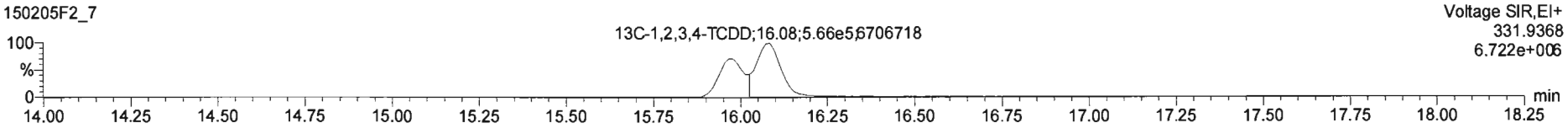
Ready 150205F2_7 CAP NUM

Dataset: Untitled

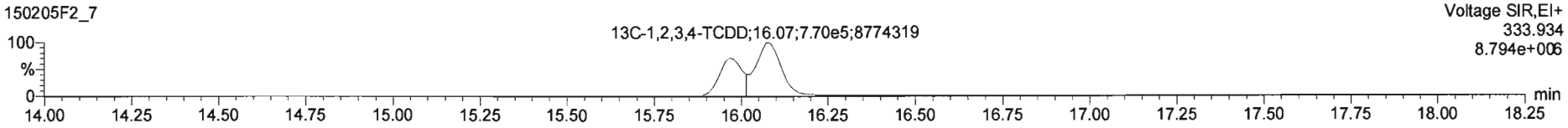
Last Altered: Friday, February 06, 2015 09:14:07 Pacific Standard Time
Printed: Friday, February 06, 2015 09:14:47 Pacific Standard Time

Name: 150205F2_7, Date: 05-Feb-2015, Time: 18:02:19, ID: 1500108-03RE1 AS-CB-UNR-20150120-S CF 15.93, Description: AS-CB-UNR-20150120-S CF

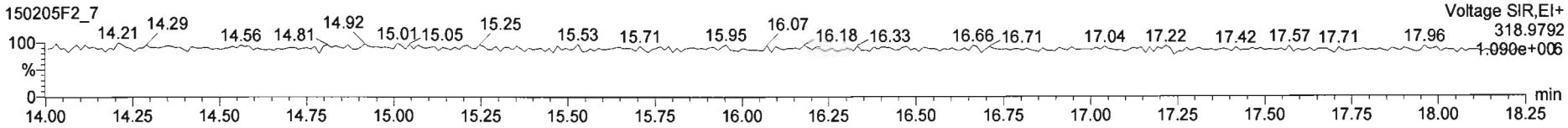
13C-1,2,3,4-TCDD



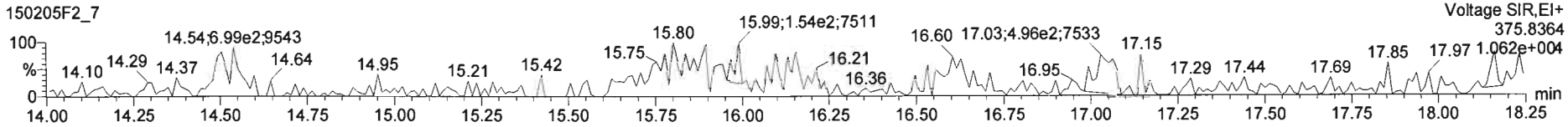
13C-1,2,3,4-TCDD



PFK1



DPE1



CONTINUING CALIBRATION

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.: CCAL ID: ST150130D2-1

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 150130D2 S#1 Analysis Date: 30-JAN-15 Time: 22:12:48

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.75	0.65-0.89	y	8.76	7.8 - 12.9 8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M/M+2	0.60	0.54-0.72	y	46.2	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	50.0	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	50.7	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	50.3	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	47.4	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	98.2	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	y	9.13	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	43.6	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	45.0	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.31	1.05-1.43	y	50.1	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.32	1.05-1.43	y	49.9	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.31	1.05-1.43	y	49.3	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.31	1.05-1.43	y	49.6	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.08	0.88-1.20	y	50.5	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.08	0.88-1.20	y	50.6	43.0 - 58.0
OCDF	M+2/M+4	0.93	0.76-1.02	y	99.3	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: _____

Date: 1/31/15

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 150130D2 S#1 Analysis Date: 30-JAN-15 Time: 22:12:48

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.80	0.65-0.89	y	99.7	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	90.8	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	102	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	103	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.25	1.05-1.43	y	104	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	112	72.0 - 138.0
13C-OCDD	M/M+2	0.86	0.76-1.02	y	196	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.76	0.65-0.89	y	104	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.54	1.32-1.78	y	103	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.54	1.32-1.78	y	98.9	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	93.2	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	97.8	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	95.9	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	101	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.44	0.37-0.51	y	105	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.44	0.37-0.51	y	104	77.0 - 129.0
13C-OCDF	M+2/M+4	0.88	0.76-1.02	y	187	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					10.7	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: [signature]

Date: 1/31/15

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

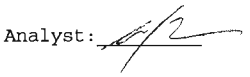
Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 150130D2 S#1 Analysis Date: 30-JAN-15 Time: 22:12:48

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.000	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.021	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.191	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.992	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.147	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.180	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613. 10/94

Analyst: 

Date: 1/31/15

FORM 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-7 Initial Calibration Date: 1-7-15

RT Window Data Filename: 150130D2 S#1 Analysis Date: 30-JAN-15 Time: 22:12:48

ZB-5MS IS Data Filename: 150130D2 S#1 Analysis Date: 30-JAN-15 Time: 22:12:48

DB_225 IS Data Filename: Analysis Date: Time:

ZB-5MS RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	23:36	1,3,6,8-TCDF (F)	21:29
1,2,8,9-TCDD (L)	27:49	1,2,8,9-TCDF (L)	27:58
1,2,4,7,9-PeCDD (F)	29:23	1,3,4,6,8-PeCDF (F)	27:53
1,2,3,8,9-PeCDD (L)	31:46	1,2,3,8,9-PeCDF (L)	32:02
1,2,4,6,7,9-HxCDD (F)	33:11	1,2,3,4,6,8-HxCDF (F)	32:39
1,2,3,7,8,9-HxCDD (L)	35:09	1,2,3,7,8,9-HxCDF (L)	35:33
1,2,3,4,6,7,9-HpCDD (F)	37:45	1,2,3,4,6,7,8-HpCDF (F)	37:23
1,2,3,4,6,7,8-HpCDD (L)	38:35	1,2,3,4,7,8,9-HpCDF (L)	39:08

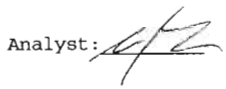
(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

==========

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

COMPARED PEAKS (1)	% VALLEY HEIGHT BETWEEN
	<25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: 

Date: 1/31/15

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 150130D2 S#1 Analysis Date: 30-JAN-15 Time: 22:12:48

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.000	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.021	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.191	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.992	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.147	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.180	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613. 10/94

Analyst: 

Date: 1/31/15

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 150130D2 S#1 Analysis Date: 30-JAN-15 Time: 22:12:48

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.000	0.998-1.004
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.000	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.988	0.975-1.001
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.992	0.979-1.005
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.009	1.001-1.020
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.037	1.002-1.072
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.014	1.002-1.026
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.017	1.007-1.029
13C-1,2,3,7,8,9-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.026	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.091	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.142	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.126	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.223	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.230	1.091-1.371

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

Analyst: _____

Date: 1/31/15

Client ID: 1613 CS3 15A0501 Filename: 150130D2 S:1 Acq:30-JAN-15 22:12:48 ConCal: ST150130D2-1

Lab ID: ST150130D2-1 GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.000 EndCAL: NA

	Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	2.51e+06	0.75 y	1.17	26:57	1.000	8.7588		*	2.5	*
	1,2,3,7,8-PeCDD	1.04e+07	0.60 y	0.91	31:26	1.001	46.164		*	2.5	*
	1,2,3,4,7,8-HxCDD	1.02e+07	1.25 y	1.08	34:44	1.000	49.959		*	2.5	*
	1,2,3,6,7,8-HxCDD	1.05e+07	1.27 y	1.06	34:51	1.000	50.744		*	2.5	*
	1,2,3,7,8,9-HxCDD	1.07e+07	1.23 y	0.93	35:09	1.000	50.275		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	9.82e+06	1.03 y	1.10	38:35	1.000	47.352		*	2.5	*
	OCDD	1.79e+07	0.89 y	0.95	41:54	1.000	98.221		*	2.5	*
	2,3,7,8-TCDF	3.22e+06	0.80 y	1.07	26:11	1.001	9.1305		*	2.5	*
	1,2,3,7,8-PeCDF	1.53e+07	1.60 y	1.07	30:16	1.000	43.576		*	2.5	*
	2,3,4,7,8-PeCDF	1.48e+07	1.59 y	1.03	31:09	1.000	45.020		*	2.5	*
	1,2,3,4,7,8-HxCDF	1.63e+07	1.31 y	1.38	33:51	1.000	50.096		*	2.5	*
	1,2,3,6,7,8-HxCDF	1.71e+07	1.32 y	1.26	33:59	1.000	49.930		*	2.5	*
	2,3,4,6,7,8-HxCDF	1.61e+07	1.31 y	1.29	34:34	1.000	49.288		*	2.5	*
	1,2,3,7,8,9-HxCDF	1.32e+07	1.31 y	1.19	35:33	1.001	49.594		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	1.59e+07	1.08 y	1.61	37:23	1.000	50.491		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	1.44e+07	1.08 y	1.53	39:08	1.000	50.563		*	2.5	*
	OCDF	2.22e+07	0.93 y	1.10	42:08	1.000	99.342		*	2.5	*
IS	13C-2,3,7,8-TCDD	2.45e+07	0.80 y	1.06	26:56	1.021	99.723				
IS	13C-1,2,3,7,8-PeCDD	2.48e+07	0.62 y	1.18	31:25	1.191	90.821				
IS	13C-1,2,3,4,7,8-HxCDD	1.89e+07	1.25 y	0.72	34:44	1.014	101.98				
IS	13C-1,2,3,6,7,8-HxCDD	1.94e+07	1.24 y	0.74	34:50	1.017	102.61				
IS	13C-1,2,3,7,8,9-HxCDD	2.28e+07	1.25 y	0.85	35:08	1.026	103.82				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.88e+07	1.06 y	0.65	38:34	1.126	111.70				
IS	13C-OCDD	3.85e+07	0.86 y	0.76	41:53	1.223	195.87				
IS	13C-2,3,7,8-TCDF	3.30e+07	0.76 y	0.92	26:10	0.992	104.17				
IS	13C-1,2,3,7,8-PeCDF	3.26e+07	1.54 y	0.92	30:15	1.147	102.67				
IS	13C-2,3,4,7,8-PeCDF	3.17e+07	1.54 y	0.93	31:08	1.180	98.898				
IS	13C-1,2,3,4,7,8-HxCDF	2.35e+07	0.51 y	0.98	33:50	0.988	93.236				
IS	13C-1,2,3,6,7,8-HxCDF	2.72e+07	0.51 y	1.08	33:58	0.992	97.776				
IS	13C-2,3,4,6,7,8-HxCDF	2.53e+07	0.52 y	1.03	34:34	1.009	95.854				
IS	13C-1,2,3,7,8,9-HxCDF	2.25e+07	0.51 y	0.86	35:31	1.037	101.48				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.96e+07	0.44 y	0.72	37:23	1.091	105.43				
IS	13C-1,2,3,4,7,8,9-HpCDF	1.86e+07	0.44 y	0.70	39:08	1.142	103.97				
IS	13C-OCDF	4.08e+07	0.88 y	0.85	42:07	1.230	186.63				
C/Up	37Cl-2,3,7,8-TCDD	2.76e+06		1.12	26:57	1.022	10.675				
RS/RT	13C-1,2,3,4-TCDD	2.32e+07	0.81 y	1.00	26:23	*	100.00				
RS	13C-1,2,3,4-TCDF	3.45e+07	0.76 y	1.00	24:58	*	100.00				
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.57e+07	0.52 y	1.00	34:15	*	100.00				

	Name	Conc	EMPC	Qual	noise	DL
Total	Tetra-Dioxins	48.6	48.8		*	*
Total	Penta-Dioxins	144	144		*	*
Total	Hexa-Dioxins	196	196		*	*
Total	Hepta-Dioxins	119	119		*	*
Total	Tetra-Furans	27.6	27.8		*	*
Total	Penta-Furans	186.78	186.99		*	*
Total	Hexa-Furans	249	249		*	*
Total	Hepta-Furans	101	102		*	*

	Name	Rec	Qual
IS	13C-2,3,7,8-TCDD	99.7	
IS	13C-1,2,3,7,8-PeCDD	90.8	
IS	13C-1,2,3,4,7,8-HxCDD	102	
IS	13C-1,2,3,6,7,8-HxCDD	103	
IS	13C-1,2,3,7,8,9-HxCDD	104	
IS	13C-1,2,3,4,6,7,8-HpCDD	112	
IS	13C-OCDD	97.9	
IS	13C-2,3,7,8-TCDF	104	
IS	13C-1,2,3,7,8-PeCDF	103	
IS	13C-2,3,4,7,8-PeCDF	98.9	
IS	13C-1,2,3,4,7,8-HxCDF	93.2	
IS	13C-1,2,3,6,7,8-HxCDF	97.8	
IS	13C-2,3,4,6,7,8-HxCDF	95.9	
IS	13C-1,2,3,7,8,9-HxCDF	101	
IS	13C-1,2,3,4,6,7,8-HpCDF	105	
IS	13C-1,2,3,4,7,8,9-HpCDF	104	
IS	13C-OCDF	93.3	
C/Up	37Cl-2,3,7,8-TCDD	107	

Integrations by Analyst: [signature]

Date: 1/31/15

Reviewed by Analyst: _____

Date: _____

Vista Analytical Laboratory - Injection Log Run file: 150130D2 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
150130D2	1	ST150130D2-1	MAS	30-JAN-15	22:12:48	ST150130D2-1	NA
150130D2	2	B5A0110-BS1	MAS	30-JAN-15	23:00:58	ST150130D2-1	NA
150130D2	3	SOLVENT BLANK	MAS	30-JAN-15	23:49:11	ST150130D2-1	NA
150130D2	4	B5A0110-BLK1	MAS	31-JAN-15	00:37:21	ST150130D2-1	NA
150130D2	5	1500115-01	MAS	31-JAN-15	01:25:32	ST150130D2-1	NA
150130D2	6	1500107-01	MAS	31-JAN-15	02:13:44	ST150130D2-1	NA
150130D2	7	1500107-02	MAS	31-JAN-15	03:01:55	ST150130D2-1	NA
150130D2	8	1500109-01	MAS	31-JAN-15	03:50:06	ST150130D2-1	NA
150130D2	9	1500121-02	MAS	31-JAN-15	04:38:21	ST150130D2-1	NA
150130D2	10	1500121-03	MAS	31-JAN-15	05:26:36	ST150130D2-1	NA
150130D2	11	1500116-03	MAS	31-JAN-15	06:14:51	ST150130D2-1	NA
150130D2	12	1400970-01	MAS	31-JAN-15	07:03:05	ST150130D2-1	NA
150130D2	13	1500108-04	MAS	31-JAN-15	07:51:20	ST150130D2-1	NA
150130D2	14	SOLVENT BLANK	MAS	31-JAN-15	08:39:33	ST150130D2-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST

Vista Analytical Laboratory

Beg. Calibration ID: ST150130D2-1 End Calibration ID: NA

	Beg.	End
Ion abundance within QC limits?	✓	NA
Concentration within range?	✓	
First and last eluters present?	✓	
Retention Times within criteria?	✓	
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	✓	
Forms signed and dated?	✓	
Correct ICAL referenced?	✓	
Run Log:		
-Data file matches Conc Cal ID?	✓	
-Correct instrument listed?	✓	
-Samples within 12-hour clock?	(y)	n

	Beg.	End
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	✓	
TCDD/TCDF valleys < 25%?	✓	NA
Peaks integrated correctly?	✓	
Manual integrations included?	✓	
8280 CS1 Ending Standard		
-Ratios within limits		NA
-S/N > 2.5:1		
-CS1 within 12-hour clock		

Comments:

Reviewed by: CT 2/2/2015
Initials & Date

* *Ending standard criteria applicable to 8290 only.*

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.: CCAL ID: ST150130D3-1

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 150130D3 S#1 Analysis Date: 31-JAN-15 Time: 09:57:51

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.76	0.65-0.89	y	8.93	7.8 - 12.9 8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	49.4	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	51.6	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	51.9	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05-1.43	y	51.4	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	49.1	43.0 - 58.0
OCDD	M+2/M+4	0.88	0.76-1.02	y	102	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	9.24	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	48.8	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	48.1	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	49.6	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	50.6	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.32	1.05-1.43	y	49.5	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.32	1.05-1.43	y	49.8	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.06	0.88-1.20	y	48.8	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.07	0.88-1.20	y	50.9	43.0 - 58.0
OCDF	M+2/M+4	0.94	0.76-1.02	y	100	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: [signature]

Date: 1/31/15

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

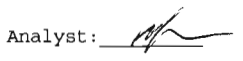
VER Data Filename: 150130D3 S#1 Analysis Date: 31-JAN-15 Time: 09:57:51

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.81	0.65-0.89	y	101	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	91.7	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	95.7	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	96.1	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	96.4	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	108	72.0 - 138.0
13C-OCDD	M/M+2	0.90	0.76-1.02	y	191	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.77	0.65-0.89	y	101	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.56	1.32-1.78	y	98.8	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	96.8	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.53	0.43-0.59	y	98.8	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	96.8	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.53	0.43-0.59	y	92.9	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.50	0.43-0.59	y	97.5	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.45	0.37-0.51	y	107	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.45	0.37-0.51	y	105	77.0 - 129.0
13C-OCDF	M+2/M+4	0.88	0.76-1.02	y	192	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					10.7	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: 

Date: 1/31/15

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.: CCAL ID: ST150130D3-1

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 150130D3 S#1 Analysis Date: 31-JAN-15 Time: 09:57:51

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.76	0.65-0.89	y	8.93	8.00 - 12.0
1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	49.4	40.0 - 60.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	51.6	40.0 - 60.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	51.9	40.0 - 60.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05-1.43	y	51.4	40.0 - 60.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	49.1	40.0 - 60.0
OCDD	M+2/M+4	0.88	0.76-1.02	y	102	80.0 - 120
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	9.24	8.00 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	48.8	40.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	48.1	40.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	49.6	40.0 - 60.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	50.6	40.0 - 60.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.32	1.05-1.43	y	49.5	40.0 - 60.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.32	1.05-1.43	y	49.8	40.0 - 60.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.06	0.88-1.20	y	48.8	40.0 - 60.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.07	0.88-1.20	y	50.9	40.0 - 60.0
OCDF	M+2/M+4	0.94	0.76-1.02	y	100	80.0 - 120

Analyst: _____

Date: 2/11/15

Client ID: 1613 CS3 15A0501 Filename: 150130D3 S:1 Acq:31-JAN-15 09:57:51 ConCal: ST150130D3-1

Lab ID: ST150130D3-1 GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.000 EndCAL: ST150130D3-2

	Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	2.07e+06	0.76 y	1.17	26:55	1.001	8.9330		*	2.5	*
	1,2,3,7,8-PeCDD	8.94e+06	0.62 y	0.91	31:24	1.000	49.440		*	2.5	*
	1,2,3,4,7,8-HxCDD	8.39e+06	1.27 y	1.08	34:43	1.000	51.630		*	2.5	*
	1,2,3,6,7,8-HxCDD	8.54e+06	1.27 y	1.06	34:50	1.000	51.881		*	2.5	*
	1,2,3,7,8,9-HxCDD	8.59e+06	1.26 y	0.93	35:08	1.000	51.380		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	8.39e+06	1.03 y	1.10	38:34	1.000	49.071		*	2.5	*
	OCDD	1.54e+07	0.88 y	0.95	41:53	1.000	101.54		*	2.5	*
	2,3,7,8-TCDF	2.77e+06	0.76 y	1.07	26:09	1.001	9.2400		*	2.5	*
	1,2,3,7,8-PeCDF	1.44e+07	1.62 y	1.07	30:14	1.000	48.779		*	2.5	*
	2,3,4,7,8-PeCDF	1.36e+07	1.61 y	1.03	31:07	1.000	48.128		*	2.5	*
	1,2,3,4,7,8-HxCDF	1.45e+07	1.30 y	1.38	33:49	1.001	49.585		*	2.5	*
	1,2,3,6,7,8-HxCDF	1.46e+07	1.29 y	1.26	33:57	1.000	50.633		*	2.5	*
	2,3,4,6,7,8-HxCDF	1.33e+07	1.32 y	1.29	34:33	1.001	49.546		*	2.5	*
	1,2,3,7,8,9-HxCDF	1.08e+07	1.32 y	1.19	35:31	1.000	49.830		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	1.32e+07	1.06 y	1.61	37:22	1.000	48.841		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	1.24e+07	1.07 y	1.53	39:07	1.000	50.928		*	2.5	*
	OCDF	1.96e+07	0.94 y	1.10	42:07	1.000	100.36		*	2.5	*
IS	13C-2,3,7,8-TCDD	1.98e+07	0.81 y	1.06	26:54	1.021	101.20				
IS	13C-1,2,3,7,8-PeCDD	1.99e+07	0.62 y	1.18	31:23	1.191	91.669				
IS	13C-1,2,3,4,7,8-HxCDD	1.51e+07	1.27 y	0.72	34:42	1.014	95.746				
IS	13C-1,2,3,6,7,8-HxCDD	1.55e+07	1.27 y	0.74	34:49	1.017	96.105				
IS	13C-1,2,3,7,8,9-HxCDD	1.80e+07	1.24 y	0.85	35:07	1.026	96.361				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.55e+07	1.06 y	0.65	38:33	1.126	108.39				
IS	13C-OCDD	3.19e+07	0.90 y	0.76	41:52	1.223	191.36				
IS	13C-2,3,7,8-TCDF	2.80e+07	0.77 y	0.92	26:08	0.992	100.86				
IS	13C-1,2,3,7,8-PeCDF	2.76e+07	1.56 y	0.92	30:13	1.147	98.760				
IS	13C-2,3,4,7,8-PeCDF	2.73e+07	1.60 y	0.93	31:06	1.181	96.849				
IS	13C-1,2,3,4,7,8-HxCDF	2.12e+07	0.53 y	0.98	33:48	0.988	98.790				
IS	13C-1,2,3,6,7,8-HxCDF	2.29e+07	0.51 y	1.08	33:56	0.992	96.752				
IS	13C-2,3,4,6,7,8-HxCDF	2.08e+07	0.53 y	1.03	34:32	1.009	92.855				
IS	13C-1,2,3,7,8,9-HxCDF	1.83e+07	0.50 y	0.86	35:30	1.037	97.518				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.68e+07	0.45 y	0.72	37:21	1.091	106.58				
IS	13C-1,2,3,4,7,8,9-HpCDF	1.60e+07	0.45 y	0.70	39:07	1.143	104.98				
IS	13C-OCDF	3.57e+07	0.88 y	0.85	42:06	1.230	192.16				
C/Up	37Cl-2,3,7,8-TCDD	2.20e+06		1.12	26:55	1.022	10.677				
RS/RT	13C-1,2,3,4-TCDD	1.84e+07	0.80 y	1.00	26:21	*	100.00				
RS	13C-1,2,3,4-TCDF	3.03e+07	0.79 y	1.00	24:55	*	100.00				
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.19e+07	0.52 y	1.00	34:14	*	100.00				

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	50.0	50.2		*	*
Total Penta-Dioxins	151	152		*	*
Total Hexa-Dioxins	200	201		*	*
Total Hepta-Dioxins	122	122		*	*
Total Tetra-Furans	28.8	29.2		*	*
Total Penta-Furans	196.45	196.73		*	*
Total Hexa-Furans	250	251		*	*
Total Hepta-Furans	100.0	101		*	*

	Rec	Qual
IS	101	
IS	91.7	
IS	95.7	
IS	96.1	
IS	96.4	
IS	108	
IS	95.7	
IS	101	
IS	98.8	
IS	96.8	
IS	98.8	
IS	96.8	
IS	92.9	
IS	97.5	
IS	107	
IS	105	
IS	96.1	
C/Up	26.7	

Integrations by Analyst: [signature] Date: 1/31/15

Reviewed by Analyst: CT Date: 2/9/15

Vista Analytical Laboratory - Injection Log Run file: 150130D3 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
150130D3	1	ST150130D3-1	MAS	31-JAN-15	09:57:51	ST150130D3-1	ST150130D3-2
150130D3	2	B5A0101-BS1	MAS	31-JAN-15	10:46:04	ST150130D3-1	NA
150130D3	3	B5A0089-BS1	MAS	31-JAN-15	11:34:22	ST150130D3-1	NA
150130D3	4	SOLVENT BLANK	MAS	31-JAN-15	12:22:34	NA	NA
150130D3	5	B5A0101-BLK1	MAS	31-JAN-15	13:10:47	ST150130D3-1	NA
150130D3	6	B5A0089-BLK1	MAS	31-JAN-15	13:59:02	ST150130D3-1	NA
150130D3	7	B5A0112-BLK1	MAS	31-JAN-15	14:47:15	ST150130D3-1	ST150130D3-2
150130D3	8	B5A0112-BS2	MAS	31-JAN-15	15:35:29	ST150130D3-1	ST150130D3-2
150130D3	9	B5A0112-BS3	MAS	31-JAN-15	16:23:43	ST150130D3-1	ST150130D3-2
150130D3	10	1500057-03	MAS	31-JAN-15	17:11:56	ST150130D3-1	NA
150130D3	11	1500057-03RE1	MAS	31-JAN-15	18:00:10	ST150130D3-1	NA
150130D3	12	1500057-03RE2	MAS	31-JAN-15	18:48:23	ST150130D3-1	NA
150130D3	13	1400970-02@20X	MAS	31-JAN-15	19:36:39	ST150130D3-1	NA
150130D3	14	1400970-03@20X	MAS	31-JAN-15	20:24:55	ST150130D3-1	NA
150130D3	15	1400970-04@20X	MAS	31-JAN-15	21:13:10	ST150130D3-1	NA
150130D3	16	SOLVENT BLANK	MAS	31-JAN-15	22:01:27	NA	NA
150130D3	17	SOLVENT BLANK	MAS	31-JAN-15	22:49:39	NA	NA
150130D3	18	ST150130D3-2	MAS	31-JAN-15	23:37:50	ST150130D3-1	ST150130D3-2

CALIBRATION STANDARDS REVIEW CHECKLIST

Vista Analytical Laboratory

Beg. Calibration ID: ST150130D3-1 End Calibration ID: ST150130D3-2

	Beg.	End
Ion abundance within QC limits?	✓	✓
Concentration within range?	✓	✓
First and last eluters present?	✓	✓
Retention Times within criteria?	✓	✓
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	✓	✓
Forms signed and dated?	✓	✓
Correct ICAL referenced?	✓	✓
Run Log:		
-Data file matches Conc Cal ID?	✓	✓
-Correct instrument listed?	✓	✓
-Samples within 12-hour clock?	(y)	n

	Beg.	End
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	✓	✓
TCDD/TCDF valleys < 25%?	✓	✓
Peaks integrated correctly?	✓	✓
Manual integrations included?	✓	✓
8280 CS1 Ending Standard		
-Ratios within limits		NA
-S/N > 2.5:1		
-CS1 within 12-hour clock		✓

Comments:

Reviewed by: CT 2/9/15
Initials & Date

* *Ending standard criteria applicable to 8290 only.*

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.: CCAL ID: ST150203D1-1

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 150203D1 S#1 Analysis Date: 3-FEB-15 Time: 08:36:48

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.74	0.65-0.89	y	8.84	7.8 - 12.9 8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M/M+2	0.61	0.54-0.72	y	45.9	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	51.1	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	51.0	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.28	1.05-1.43	y	50.1	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	0.88-1.20	y	47.2	43.0 - 58.0
OCDD	M+2/M+4	0.87	0.76-1.02	y	100	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.75	0.65-0.89	y	9.31	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.64	1.32-1.78	y	46.3	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	46.6	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.31	1.05-1.43	y	49.0	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.31	1.05-1.43	y	49.0	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	48.3	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.32	1.05-1.43	y	48.4	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.10	0.88-1.20	y	50.4	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.06	0.88-1.20	y	50.8	43.0 - 58.0
OCDF	M+2/M+4	0.91	0.76-1.02	y	95.7	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: _____

Date: 2/3/15

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 150203D1 S#1 Analysis Date: 3-FEB-15 Time: 08:36:48

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.82	0.65-0.89	y	96.7	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.60	0.54-0.72	y	86.3	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	95.2	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	97.6	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	99.6	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	104	72.0 - 138.0
13C-OCDD	M/M+2	0.89	0.76-1.02	y	187	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.75	0.65-0.89	y	116	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.54	1.32-1.78	y	98.3	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	95.1	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	108	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	105	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	97.0	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.50	0.43-0.59	y	103	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.44	0.37-0.51	y	102	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.44	0.37-0.51	y	98.1	77.0 - 129.0
13C-OCDF	M+2/M+4	0.86	0.76-1.02	y	188	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					9.87	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: [signature]

Date: 2/3/15

FORM 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-7 Initial Calibration Date: 1-7-15

RT Window Data Filename: 150203D1 S#1 Analysis Date: 3-FEB-15 Time: 08:36:48

ZB-5MS IS Data Filename: 150203D1 S#1 Analysis Date: 3-FEB-15 Time: 08:36:48

DB_225 IS Data Filename: Analysis Date: Time:

ZB-5MS RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	23:37	1,3,6,8-TCDF (F)	21:30
1,2,8,9-TCDD (L)	27:47	1,2,8,9-TCDF (L)	27:56
1,2,4,7,9-PeCDD (F)	29:22	1,3,4,6,8-PeCDF (F)	27:53
1,2,3,8,9-PeCDD (L)	31:46	1,2,3,8,9-PeCDF (L)	32:00
1,2,4,6,7,9-HxCDD (F)	33:10	1,2,3,4,6,8-HxCDF (F)	32:38
1,2,3,7,8,9-HxCDD (L)	35:07	1,2,3,7,8,9-HxCDF (L)	35:30
1,2,3,4,6,7,9-HpCDD (F)	37:43	1,2,3,4,6,7,8-HpCDF (F)	37:21
1,2,3,4,6,7,8-HpCDD (L)	38:33	1,2,3,4,7,8,9-HpCDF (L)	39:07

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

==========

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

COMPARED PEAKS (1)	% VALLEY HEIGHT BETWEEN
	<25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: [signature]

Date: 2/3/15

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 150203D1 S#1 Analysis Date: 3-FEB-15 Time: 08:36:48

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.021	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.190	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.992	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.146	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.180	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613. 10/94

Analyst: 

Date: 2/3/15

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 150203D1 S#1 Analysis Date: 3-FEB-15 Time: 08:36:48

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.001	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.001	0.998-1.004
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.000	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.988	0.975-1.001
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.991	0.979-1.005
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.009	1.001-1.020
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.037	1.002-1.072
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.014	1.002-1.026
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.017	1.007-1.029
13C-1,2,3,7,8,9-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.026	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.091	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.142	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.126	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.223	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.230	1.091-1.371

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

Analyst: _____

Date: 2/3/15

Client ID: 1613 CS3 15A0501 Filename: 150203D1 S:1 Acq: 3-FEB-15 08:36:48 ConCal: ST150203D1-1

Lab ID: ST150203D1-1 GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.000 EndCAL: NA

	Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL
	2,3,7,8-TCDD	1.55e+06	0.74 y	1.17	26:57	8.8381			* 2.5	*
	1,2,3,7,8-PeCDD	6.19e+06	0.61 y	0.91	31:24	45.903			* 2.5	*
	1,2,3,4,7,8-HxCDD	5.26e+06	1.28 y	1.08	34:43	51.052			* 2.5	*
	1,2,3,6,7,8-HxCDD	5.43e+06	1.24 y	1.06	34:49	50.987			* 2.5	*
	1,2,3,7,8,9-HxCDD	5.53e+06	1.28 y	0.93	35:07	50.095			* 2.5	*
	1,2,3,4,6,7,8-HpCDD	4.94e+06	1.02 y	1.10	38:33	47.230			* 2.5	*
	OCDD	9.45e+06	0.87 y	0.95	41:52	100.25			* 2.5	*
	2,3,7,8-TCDF	2.36e+06	0.75 y	1.07	26:11	9.3108			* 2.5	*
	1,2,3,7,8-PeCDF	1.01e+07	1.64 y	1.07	30:14	46.343			* 2.5	*
	2,3,4,7,8-PeCDF	9.50e+06	1.60 y	1.03	31:08	46.610			* 2.5	*
	1,2,3,4,7,8-HxCDF	1.01e+07	1.31 y	1.38	33:49	49.033			* 2.5	*
	1,2,3,6,7,8-HxCDF	9.75e+06	1.31 y	1.26	33:57	48.973			* 2.5	*
	2,3,4,6,7,8-HxCDF	8.63e+06	1.28 y	1.29	34:33	48.288			* 2.5	*
	1,2,3,7,8,9-HxCDF	7.09e+06	1.32 y	1.19	35:31	48.408			* 2.5	*
	1,2,3,4,6,7,8-HpCDF	8.29e+06	1.10 y	1.61	37:21	50.361			* 2.5	*
	1,2,3,4,7,8,9-HpCDF	7.39e+06	1.06 y	1.53	39:07	50.832			* 2.5	*
	OCDF	1.17e+07	0.91 y	1.10	42:06	95.723			* 2.5	*
IS	13C-2,3,7,8-TCDD	1.50e+07	0.82 y	1.06	26:56	96.689				
IS	13C-1,2,3,7,8-PeCDD	1.48e+07	0.60 y	1.18	31:23	86.270				
IS	13C-1,2,3,4,7,8-HxCDD	9.55e+06	1.29 y	0.72	34:42	95.184				
IS	13C-1,2,3,6,7,8-HxCDD	1.00e+07	1.25 y	0.74	34:49	97.601				
IS	13C-1,2,3,7,8,9-HxCDD	1.18e+07	1.23 y	0.85	35:06	99.636				
IS	13C-1,2,3,4,6,7,8-HpCDD	9.46e+06	1.07 y	0.65	38:32	103.90				
IS	13C-OCDD	1.99e+07	0.89 y	0.76	41:51	186.71				
IS	13C-2,3,7,8-TCDF	2.37e+07	0.75 y	0.92	26:10	115.69				
IS	13C-1,2,3,7,8-PeCDF	2.02e+07	1.54 y	0.92	30:14	98.326				
IS	13C-2,3,4,7,8-PeCDF	1.97e+07	1.55 y	0.93	31:06	95.144				
IS	13C-1,2,3,4,7,8-HxCDF	1.48e+07	0.50 y	0.98	33:48	108.46				
IS	13C-1,2,3,6,7,8-HxCDF	1.58e+07	0.51 y	1.08	33:56	104.95				
IS	13C-2,3,4,6,7,8-HxCDF	1.39e+07	0.52 y	1.03	34:32	96.997				
IS	13C-1,2,3,7,8,9-HxCDF	1.23e+07	0.50 y	0.86	35:30	102.94				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.02e+07	0.44 y	0.72	37:20	101.61				
IS	13C-1,2,3,4,7,8,9-HpCDF	9.53e+06	0.44 y	0.70	39:06	98.073				
IS	13C-OCDF	2.22e+07	0.86 y	0.85	42:05	187.70				
C/Up	37Cl-2,3,7,8-TCDD	1.61e+06		1.12	26:57	9.8685				
RS/RT	13C-1,2,3,4-TCDD	1.46e+07	0.80 y	1.00	26:22	100.00				
RS	13C-1,2,3,4-TCDF	2.23e+07	0.77 y	1.00	24:58	100.00				
RS/RT	13C-1,2,3,4,6,9-HxCDF	1.39e+07	0.52 y	1.00	34:13	100.00				

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	50.6	50.8		*	*
Total Penta-Dioxins	147	148		*	*
Total Hexa-Dioxins	200	201		*	*
Total Hepta-Dioxins	132	133		*	*
Total Tetra-Furans	26.4	26.4		*	*
Total Penta-Furans	195.17	196.08		*	*
Total Hexa-Furans	242	244		*	*
Total Hepta-Furans	102	104		*	*

		Rec	Qual
IS	13C-2,3,7,8-TCDD	96.7	
IS	13C-1,2,3,7,8-PeCDD	86.3	
IS	13C-1,2,3,4,7,8-HxCDD	95.2	
IS	13C-1,2,3,6,7,8-HxCDD	97.6	
IS	13C-1,2,3,7,8,9-HxCDD	99.6	
IS	13C-1,2,3,4,6,7,8-HpCDD	104	
IS	13C-OCDD	93.4	
IS	13C-2,3,7,8-TCDF	116	
IS	13C-1,2,3,7,8-PeCDF	98.3	
IS	13C-2,3,4,7,8-PeCDF	95.1	
IS	13C-1,2,3,4,7,8-HxCDF	108	
IS	13C-1,2,3,6,7,8-HxCDF	105	
IS	13C-2,3,4,6,7,8-HxCDF	97.0	
IS	13C-1,2,3,7,8,9-HxCDF	103	
IS	13C-1,2,3,4,6,7,8-HpCDF	102	
IS	13C-1,2,3,4,7,8,9-HpCDF	98.1	
IS	13C-OCDF	93.9	
C/Up	37Cl-2,3,7,8-TCDD	24.7	

Integrations by Analyst: [signature]

Date: 2/4/15

Reviewed by Analyst: _____

Date: _____

Vista Analytical Laboratory - Injection Log Run file: 150203D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
150203D1	1	ST150203D1-1	WJL	3-FEB-15	08:36:48	ST150203D1-1	NA
150203D1	2	SOLVENT BLANK	WJL	3-FEB-15	09:24:59	ST150203D1-1	NA
150203D1	3	1500108-01	WJL	3-FEB-15	10:13:12	ST150203D1-1	NA
150203D1	4	1500108-02	WJL	3-FEB-15	11:01:23	ST150203D1-1	NA
150203D1	5	1500108-03	WJL	3-FEB-15	11:49:35	ST150203D1-1	NA
150203D1	6	1500116-01	WJL	3-FEB-15	12:37:47	ST150203D1-1	NA
150203D1	7	1500116-02	WJL	3-FEB-15	13:25:59	ST150203D1-1	NA
150203D1	8	1500057-01	WJL	3-FEB-15	14:14:11	ST150203D1-1	NA
150203D1	9	1500057-01	WJL	3-FEB-15	15:02:24	ST150203D1-1	NA
150203D1	10	1500057-01	WJL	3-FEB-15	15:50:35	ST150203D1-1	NA
150203D1	11	1500057-02	WJL	3-FEB-15	16:38:46	ST150203D1-1	NA
150203D1	12	1500057-02	WJL	3-FEB-15	17:26:56	ST150203D1-1	NA
150203D1	13	1500057-02	WJL	3-FEB-15	18:15:07	ST150203D1-1	NA
150203D1	14	SOLVENT BLANK	WJL	3-FEB-15	19:03:20	ST150203D1-1	NA
150203D1	15	SOLVENT BLANK	WJL	3-FEB-15	19:51:31	ST150203D1-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST

Vista Analytical Laboratory

Beg. Calibration ID: ST150203D1-1 End Calibration ID: n/a

	Beg.	End
Ion abundance within QC limits?	✓	NA
Concentration within range?	✓	
First and last eluters present?	✓	
Retention Times within criteria?	✓	
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	✓	
Forms signed and dated?	✓	
Correct ICAL referenced?	✓	
Run Log:		
-Data file matches Conc Cal ID?	✓	
-Correct instrument listed?	✓	✓
-Samples within 12-hour clock?	y	n

	Beg.	End
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	✓	✓
TCDD/TCDF valleys < 25%?	✓	NA
Peaks integrated correctly?	✓	
Manual integrations included?	✓	
8280 CS1 Ending Standard		
-Ratios within limits		
-S/N > 2.5:1		
-CS1 within 12-hour clock		✓

Comments:

Reviewed by: DMS 2/4/15
Initials & Date

* *Ending standard criteria applicable to 8290 only.*

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Vista Analytical Laboratory
CCAL ID: ST150205F2-1
Initial Calibration Date: 11/13/2014
Instrument ID: VG-9
GC Column ID: DB-225
VER Data file name: 150205F2_3
Analysis Date: 05-Feb-15
Analysis Time: 15:52:47

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABOUND. RATIO	QC LIMITS (2)	Flag	CONC. FOUND	CONC. RANGE (3) (ng/ml) 1613 Min	CONC. RANGE (3) (ng/ml) 1613 Max		CONC. RANGE (ng/ml) 8290 Min	CONC. RANGE (ng/ml) 8290 Max	
2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	NO	8.46	8.4 8.6	12.0 11.6 (4)	Yes	8.00	12.0	Yes

(1) See Table 8. Method 1613, for m/z specifications
(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613
(3) Contract required concentration range as specified in Table 6, Method 1613
(4) Contract required concentration range as specified in Table 6a, Method 1613, for tetras only

Analyst: CJS
Date: 2/6/15

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Vista Analytical Laboratory
CCAL ID: ST150205F2-1
Initial Calibration Date: 11/13/2014
Instrument ID: VG-9
GC Column ID: DB-225
VER Data file name: 150205F2_3
Analysis Date: 05-Feb-15
Analysis Time: 15:52:47

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABOUND. RATIO	QC LIMITS (2)	Flag	CONC. FOUND	CONC. RANGE (3) (ng/ml) 1613 Min	CONC. RANGE (3) (ng/ml) 1613 Max		CONC. RANGE (ng/ml) 8290 Min	CONC. RANGE (ng/ml) 8290 Max	
13C-2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	NO	106	71.0 76.0	140.0 131.0 (5)	Yes	70.0	130.0	Yes

(1) See Table 8. Method 1613, for m/z specifications
(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613
(3) Contract required concentration range as specified in Table 6, Method 1613
(4) No ion abundance ratio; report concentration found
(5) Contract required concentration range as specified in Table 6a, Method 1613, for tetras only

Analyst: CG
Date: 2/6/15

Dataset: C:\MassLynx\Default.pro\Results\150205F2\150205F2_3.qld

Last Altered: Friday, February 06, 2015 09:35:11 Pacific Standard Time
Printed: Friday, February 06, 2015 09:35:46 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 27 Jan 2015 16:23:49
Calibration: C:\MassLynx\Default.pro\Curvedb\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Name: 150205F2_3, Date: 05-Feb-2015, Time: 15:52:47, ID: ST150205F2-1 1613 CS3 14I1102, Description: 1613 CS3 14I1102

	#-Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.04e5	0.78	NO	1.10	1.002	17.56	8.4648	84.8	0.0733
2	2 13C-2,3,7,8-TCDF	1.12e6	0.78	NO	0.844	1.002	17.54	105.80	106	0.253
3	3 13C-1,2,3,4-TCDF	1.25e6	0.75	NO	1.00	1.002	15.31	99.801	100	0.214
4	4 13C-1,2,3,4-TCDD	1.07e6	0.78	NO		1.002	16.07			

CJS 2/6/15

Vista Analytical Laboratory VG-9

Dataset: Untitled

Last Altered: Friday, February 06, 2015 09:14:07 Pacific Standard Time
Printed: Friday, February 06, 2015 09:15:16 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 27 Jan 2015 16:23:49
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	150205F2_1	SOLVENT BLANK	05-Feb-15	14:49:55
2	150205F2_2	CP150205F2-1 DB-225 CPSM	05-Feb-15	15:20:25
3	150205F2_3	ST150205F2-1 1613 CS3 14I1102	05-Feb-15	15:52:47
4	150205F2_4	SOLVENT BLANK	05-Feb-15	16:25:08
5	150205F2_5	1500108-01RE1 AS-CB-02-20150120-S CF 2...	05-Feb-15	16:57:30
6	150205F2_6	1500108-02RE1 AS-CB-05-20150120-S CF 2...	05-Feb-15	17:29:52
7	150205F2_7	1500108-03RE1 AS-CB-UNR-20150120-S CF ...	05-Feb-15	18:02:19
8	150205F2_8	1500116-01RE1 WM-CB-03-20150122-S CF ...	05-Feb-15	18:34:46
9	150205F2_9	1500116-02RE1 WM-FD-02-20150122-S CF 3...	05-Feb-15	19:07:08
10	150205F2_10	1400970-02RE1 DS-TD-01-20141216-S CF 1...	05-Feb-15	19:39:35
11	150205F2_11	1400970-03RE1 DS-CB-I3-20141216-S CF 19...	05-Feb-15	20:12:02
12	150205F2_12	1400970-04RE1 DS-CB-H1-20141216-S CF 3...	05-Feb-15	20:44:24

CALIBRATION STANDARDS REVIEW CHECKLIST

Vista Analytical Laboratory

Beg. Calibration ID: ST150205F2-1 End Calibration ID: N/A

	Beg.	End
Ion abundance within QC limits?	✓	N/A
Concentration within range?	✓	
First and last eluters present?	N/A	
Retention Times within criteria?	✓	
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	✓	
Forms signed and dated?	✓	
Correct ICAL referenced?	✓	
Run Log:		
-Data file matches Conc Cal ID?	✓	
-Correct instrument listed?	✓	✓
-Samples within 12-hour clock?	(y)	n

	Beg.	End
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	✓	✓
TCDD/TCDF valleys < 25%?	✓	N/A
Peaks integrated correctly?	✓	
Manual integrations included?	✓	
8280 CS1 Ending Standard		
-Ratios within limits		
-S/N > 2.5:1		
-CS1 within 12-hour clock		✓

Comments:

Reviewed by: AC 2/6/15
Initials & Date

* *Ending standard criteria applicable to 8290 only.*

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150127E1-1 Instrument ID: VG-8

Initial Calibration Date: 1-14-15 ICal ID: PCBVG8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150127E1 S#1 Analysis Date: 27-JAN-15 Time: 10:38:35

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	3.00	2.66-3.60	y	40.9	37.5-62.5
PCB-2	3.05	2.66-3.60	y	40.4	37.5-62.5
PCB-3	3.02	2.66-3.60	y	40.2	37.5-62.5
PCB-4/10	1.62	1.33-1.79	y	87.6	75-125
PCB-7/9	1.65	1.33-1.79	y	89.8	75-125
PCB-6	1.65	1.33-1.79	y	44.7	37.5-62.5
PCB-5/8	1.62	1.33-1.79	y	90.2	75-125
PCB-14	1.62	1.33-1.79	y	44.9	37.5-62.5
PCB-11	1.64	1.33-1.79	y	43.9	37.5-62.5
PCB-12/13	1.64	1.33-1.79	y	89.8	75-125
PCB-15	1.63	1.33-1.79	y	44.6	37.5-62.5
PCB-19	1.08	0.88-1.20	y	50.7	37.5-62.5
PCB-30	1.07	0.88-1.20	y	51.6	37.5-62.5
PCB-18	1.08	0.88-1.20	y	50.1	37.5-62.5
PCB-17	1.07	0.88-1.20	y	50.1	37.5-62.5
PCB-24/27	1.07	0.88-1.20	y	95.4	75.0-125
PCB-16/32	1.06	0.88-1.20	y	98.7	75.0-125
PCB-34	1.01	0.88-1.20	y	38.6	37.5-62.5
PCB-23	1.01	0.88-1.20	y	44.7	37.5-62.5
PCB-29	0.99	0.88-1.20	y	41.6	37.5-62.5
PCB-26	1.03	0.88-1.20	y	43.0	37.5-62.5
PCB-25	1.03	0.88-1.20	y	41.3	37.5-62.5
PCB-31	1.00	0.88-1.20	y	45.4	37.5-62.5
PCB-28	1.01	0.88-1.20	y	44.7	37.5-62.5
PCB-20/21/33	1.00	0.88-1.20	y	135.1	112.5-225
PCB-22	1.01	0.88-1.20	y	40.2	37.5-62.5
PCB-36	0.99	0.88-1.20	y	39.2	37.5-62.5
PCB-39	1.01	0.88-1.20	y	42.4	37.5-62.5
PCB-38	1.01	0.88-1.20	y	41.6	37.5-62.5
PCB-35	1.02	0.88-1.20	y	41.8	37.5-62.5
PCB-37	1.00	0.88-1.20	y	42.6	37.5-62.5
PCB-54	0.74	0.65-0.89	y	47.2	37.5-62.5
PCB-50	0.75	0.65-0.89	y	52.1	37.5-62.5
PCB-53	0.77	0.65-0.89	y	46.4	37.5-62.5
PCB-51	0.75	0.65-0.89	y	44.1	37.5-62.5
PCB-45	0.75	0.65-0.89	y	45.1	37.5-62.5
PCB-46	0.75	0.65-0.89	y	47.5	37.5-62.5
PCB-52/69	0.75	0.65-0.89	y	90.8	75.0-125
PCB-73	0.76	0.65-0.89	y	47.4	37.5-62.5
PCB-43/49	0.75	0.65-0.89	y	94.2	75.0-125
PCB-47	0.76	0.65-0.89	y	43.4	37.5-62.5
PCB-48/75	0.76	0.65-0.89	y	91.7	75.0-125
PCB-65	0.75	0.65-0.89	y	48.2	37.5-62.5
PCB-62	0.77	0.65-0.89	y	43.0	37.5-62.5
PCB-44	0.76	0.65-0.89	y	48.7	37.5-62.5
PCB-42/59	0.76	0.65-0.89	y	94.3	75.0-125
PCB-41/64/71/72	0.76	0.65-0.89	y	186.0	150-250
PCB-68	0.75	0.65-0.89	y	44.6	37.5-62.5
PCB-40	0.77	0.65-0.89	y	47.7	37.5-62.5
PCB-57	0.76	0.65-0.89	y	46.0	37.5-62.5
PCB-67	0.84	0.65-0.89	y	45.5	37.5-62.5
PCB-58	0.71	0.65-0.89	y	48.2	37.5-62.5
PCB-63	0.75	0.65-0.89	y	46.6	37.5-62.5
PCB-74	0.77	0.65-0.89	y	46.2	37.5-62.5
PCB-61/70	0.76	0.65-0.89	y	92.5	75.0-125
PCB-76/66	0.76	0.65-0.89	y	91.9	75.0-125
PCB-80	0.76	0.65-0.89	y	45.6	37.5-62.5
PCB-55	0.76	0.65-0.89	y	45.6	37.5-62.5
PCB-56/60	0.76	0.65-0.89	y	93.3	75.0-125
PCB-79	0.76	0.65-0.89	y	47.5	37.5-62.5
PCB-78	0.77	0.65-0.89	y	46.4	37.5-62.5
PCB-81	0.76	0.65-0.89	y	44.4	37.5-62.5
PCB-77	0.79	0.65-0.89	y	46.1	37.5-62.5
PCB-104	1.57	1.32-1.78	y	48.0	37.5-62.5
PCB-96	1.57	1.32-1.78	y	49.1	37.5-62.5
PCB-103	1.62	1.32-1.78	y	50.6	37.5-62.5
PCB-100	1.58	1.32-1.78	y	51.2	37.5-62.5
PCB-94	1.58	1.32-1.78	y	49.3	37.5-62.5
PCB-95/98/102	1.59	1.32-1.78	y	140.9	112.5-225
PCB-93	1.59	1.32-1.78	y	55.4	37.5-62.5
PCB-88/91	1.59	1.32-1.78	y	103.1	75.0-125
PCB-121	1.62	1.32-1.78	y	47.2	37.5-62.5

Analyst: DMS

Date: 1/27/15

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150127E1-1 Instrument ID: VG-8

Initial Calibration Date: 1-14-15 ICal ID: PCBVG8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150127E1 S#1 Analysis Date: 27-JAN-15 Time: 10:38:35

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-84/92	1.58	1.32-1.78	y	99.3	75.0-125
PCB-89	1.57	1.32-1.78	y	51.4	37.5-62.5
PCB-90/101	1.57	1.32-1.78	y	95.9	75.0-125
PCB-113	1.57	1.32-1.78	y	52.2	37.5-62.5
PCB-99	1.61	1.32-1.78	y	44.5	37.5-62.5
PCB-119	1.57	1.32-1.78	y	46.1	37.5-62.5
PCB-108/112	1.57	1.32-1.78	y	95.5	75.0-125
PCB-83	1.55	1.32-1.78	y	48.9	37.5-62.5
PCB-97	1.56	1.32-1.78	y	48.5	37.5-62.5
PCB-86	1.58	1.32-1.78	y	44.7	37.5-62.5
PCB-87/117/125	1.59	1.32-1.78	y	138.7	112.5-225
PCB-111/115	1.56	1.32-1.78	y	95.1	75.0-125
PCB-85/116	1.61	1.32-1.78	y	90.2	75.0-125
PCB-120	1.57	1.32-1.78	y	43.7	37.5-62.5
PCB-110	1.62	1.32-1.78	y	46.4	37.5-62.5
PCB-82	1.61	1.32-1.78	y	48.7	37.5-62.5
PCB-124	1.60	1.32-1.78	y	47.4	37.5-62.5
PCB-107/109	1.59	1.32-1.78	y	93.0	75.0-125
PCB-123	1.57	1.32-1.78	y	47.7	37.5-62.5
PCB-106/118	1.59	1.32-1.78	y	96.3	75.0-125
PCB-114	1.61	1.32-1.78	y	43.6	37.5-62.5
PCB-122	1.67	1.32-1.78	y	45.8	37.5-62.5
PCB-105	1.61	1.32-1.78	y	41.7	37.5-62.5
PCB-127	1.63	1.32-1.78	y	42.8	37.5-62.5
PCB-126	1.61	1.32-1.78	y	43.3	37.5-62.5
PCB-155	1.26	1.05-1.43	y	48.0	37.5-62.5
PCB-150	1.27	1.05-1.43	y	48.3	37.5-62.5
PCB-152	1.26	1.05-1.43	y	47.2	37.5-62.5
PCB-145	1.28	1.05-1.43	y	48.2	37.5-62.5
PCB-136	1.26	1.05-1.43	y	50.0	37.5-62.5
PCB-148	1.29	1.05-1.43	y	48.2	37.5-62.5
PCB-154	1.26	1.05-1.43	y	50.4	37.5-62.5
PCB-151	1.28	1.05-1.43	y	52.7	37.5-62.5
PCB-135	1.26	1.05-1.43	y	49.9	37.5-62.5
PCB-144	1.27	1.05-1.43	y	53.8	37.5-62.5
PCB-147	1.26	1.05-1.43	y	49.7	37.5-62.5
PCB-139/149	1.27	1.05-1.43	y	100.3	75.0-125

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-140	1.28	1.05-1.43	y	52.6	37.5-62.5
PCB-134/143	1.24	1.05-1.43	y	92.5	75.0-125
PCB-133/142	1.24	1.05-1.43	y	94.9	75.0-125
PCB-131	1.25	1.05-1.43	y	48.8	37.5-62.5
PCB-146/165	1.25	1.05-1.43	y	94.0	75.0-125
PCB-132/161	1.23	1.05-1.43	y	91.3	75.0-125
PCB-153	1.26	1.05-1.43	y	42.8	37.5-62.5
PCB-168	1.24	1.05-1.43	y	46.0	37.5-62.5
PCB-141	1.22	1.05-1.43	y	45.5	37.5-62.5
PCB-137	1.27	1.05-1.43	y	47.8	37.5-62.5
PCB-130	1.23	1.05-1.43	y	49.9	37.5-62.5
PCB-138/163/164	1.25	1.05-1.43	y	131.6	112.5-225
PCB-158/160	1.24	1.05-1.43	y	90.4	75.0-125
PCB-129	1.25	1.05-1.43	y	45.7	37.5-62.5
PCB-166	1.24	1.05-1.43	y	47.1	37.5-62.5
PCB-159	1.28	1.05-1.43	y	45.8	37.5-62.5
PCB-128/162	1.27	1.05-1.43	y	93.5	75.0-125
PCB-167	1.25	1.05-1.43	y	46.7	37.5-62.5
PCB-156	1.24	1.05-1.43	y	45.2	37.5-62.5
PCB-157	1.27	1.05-1.43	y	46.9	37.5-62.5
PCB-169	1.25	1.05-1.43	y	47.7	37.5-62.5
PCB-188	1.06	0.89-1.21	y	47.4	37.5-62.5
PCB-184	1.06	0.89-1.21	y	49.1	37.5-62.5
PCB-179	1.06	0.89-1.21	y	48.9	37.5-62.5
PCB-176	1.06	0.89-1.21	y	50.0	37.5-62.5
PCB-186	1.07	0.89-1.21	y	49.7	37.5-62.5
PCB-178	1.05	0.89-1.21	y	49.7	37.5-62.5
PCB-175	1.06	0.89-1.21	y	50.6	37.5-62.5
PCB-182/187	1.05	0.89-1.21	y	100.2	75.0-125
PCB-183	1.05	0.89-1.21	y	49.0	37.5-62.5
PCB-185	1.06	0.89-1.21	y	48.9	37.5-62.5
PCB-174	1.04	0.89-1.21	y	46.5	37.5-62.5
PCB-181	1.05	0.89-1.21	y	51.4	37.5-62.5
PCB-177	1.06	0.89-1.21	y	48.3	37.5-62.5
PCB-171	1.06	0.89-1.21	y	46.7	37.5-62.5
PCB-173	1.06	0.89-1.21	y	52.0	37.5-62.5
PCB-172	1.06	0.89-1.21	y	47.6	37.5-62.5

Analyst: DMS

Date: 1/27/15

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150127E1-1 Instrument ID: VG-8

Initial Calibration Date: 1-14-15 ICal ID: PCBVG8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150127E1 S#1 Analysis Date: 27-JAN-15 Time: 10:38:35

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-192	1.05	0.89-1.21	y	47.9	37.5-62.5
PCB-180	1.04	0.89-1.21	y	46.6	37.5-62.5
PCB-193	1.06	0.89-1.21	y	47.3	37.5-62.5
PCB-191	1.07	0.89-1.21	y	48.1	37.5-62.5
PCB-170	1.06	0.89-1.21	y	46.4	37.5-62.5
PCB-190	1.04	0.89-1.21	y	47.0	37.5-62.5
PCB-189	1.03	0.89-1.21	y	48.1	37.5-62.5
PCB-202	0.90	0.76-1.02	y	49.8	37.5-62.5
PCB-201	0.91	0.76-1.02	y	52.3	37.5-62.5
PCB-204	0.89	0.76-1.02	y	49.1	37.5-62.5
PCB-197	0.91	0.76-1.02	y	50.8	37.5-62.5
PCB-200	0.91	0.76-1.02	y	52.2	37.5-62.5
PCB-198	0.91	0.76-1.02	y	55.8	37.5-62.5
PCB-199	0.91	0.76-1.02	y	52.7	37.5-62.5
PCB-196/203	0.89	0.76-1.02	y	104.9	75.0-125
PCB-195	0.89	0.76-1.02	y	49.8	37.5-62.5
PCB-194	0.90	0.76-1.02	y	45.9	37.5-62.5
PCB-205	0.90	0.76-1.02	y	45.9	37.5-62.5
PCB-208	1.32	1.14-1.54	y	46.4	37.5-62.5
PCB-207	1.35	1.14-1.54	y	44.9	37.5-62.5
PCB-206	1.31	1.14-1.54	y	47.3	37.5-62.5
PCB-209	1.19	0.99-1.33	y	46.4	37.5-62.5

Analyst: DMS

Date: 1/27/15

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150127E1-1 Instrument ID: VG-8

Initial Calibration Date: 1-14-15 ICal ID: PCBVG8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150127E1 S#1 Analysis Date: 27-JAN-15 Time: 10:38:35

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-1	3.34	2.66-3.60	y	114.3	50.0-145
13C-PCB-3	3.42	2.66-3.60	y	113.8	50.0-145
13C-PCB-4	1.60	1.33-1.79	y	100.8	50.0-145
13C-PCB-9	1.59	1.33-1.79	y	98.6	50.0-145
13C-PCB-11	1.56	1.33-1.79	y	99.6	50.0-145
13C-PCB-19	1.09	0.88-1.20	y	108.5	50.0-145
13C-PCB-32	1.10	0.88-1.20	y	112.7	50.0-145
13C-PCB-28	1.02	0.88-1.20	y	91.5	50.0-145
13C-PCB-37	1.04	0.88-1.20	y	97.6	50.0-145
13C-PCB-54	0.78	0.65-0.89	y	91.1	50.0-145
13C-PCB-52	0.80	0.65-0.89	y	101.3	50.0-145
13C-PCB-47	0.79	0.65-0.89	y	100.3	50.0-145
13C-PCB-70	0.81	0.65-0.89	y	99.2	50.0-145
13C-PCB-80	0.80	0.65-0.89	y	97.5	50.0-145
13C-PCB-81	0.78	0.65-0.89	y	98.2	50.0-145
13C-PCB-77	0.80	0.65-0.89	y	95.9	50.0-145
13C-PCB-104	1.60	1.32-1.78	y	99.0	50.0-145
13C-PCB-95	1.54	1.32-1.78	y	101.6	50.0-145
13C-PCB-101	1.64	1.32-1.78	y	101.3	50.0-145
13C-PCB-97	1.60	1.32-1.78	y	106.0	50.0-145
13C-PCB-123	1.60	1.32-1.78	y	109.1	50.0-145
13C-PCB-118	1.63	1.32-1.78	y	104.1	50.0-145
13C-PCB-114	1.63	1.32-1.78	y	89.2	50.0-145
13C-PCB-105	1.62	1.32-1.78	y	92.2	50.0-145
13C-PCB-127	1.60	1.32-1.78	y	92.6	50.0-145
13C-PCB-126	1.63	1.32-1.78	y	97.2	50.0-145
13C-PCB-155	1.27	1.05-1.43	y	97.9	50.0-145
13C-PCB-153	1.30	1.05-1.43	y	95.1	50.0-145
13C-PCB-141	1.32	1.05-1.43	y	96.3	50.0-145
13C-PCB-138	1.28	1.05-1.43	y	97.9	50.0-145
13C-PCB-159	1.27	1.05-1.43	y	95.9	50.0-145
13C-PCB-167	1.30	1.05-1.43	y	95.4	50.0-145
13C-PCB-156	1.31	1.05-1.43	y	97.4	50.0-145
13C-PCB-157	1.31	1.05-1.43	y	94.8	50.0-145
13C-PCB-169	1.28	1.05-1.43	y	97.7	50 - 145
13C-PCB-188	0.46	0.38-0.52	y	92.4	50 - 145
13C-PCB-180	0.47	0.38-0.52	y	98.1	50 - 145
13C-PCB-170	0.46	0.38-0.52	y	102.2	50 - 145
13C-PCB-189	0.45	0.38-0.52	y	98.3	50 - 145
13C-PCB-202	0.94	0.76-1.02	y	91.6	50 - 145
13C-PCB-194	0.92	0.76-1.02	y	101.6	50 - 145
13C-PCB-208	0.76	0.65-0.89	y	104.2	50 - 145
13C-PCB-206	0.77	0.65-0.89	y	116.7	50 - 145
13C-PCB-209	1.19	0.99-1.33	y	120.0	50 - 145
CRS vs. RS					
13C-PCB-79	0.79	0.65-0.89	y	98.1	75 - 125
13C-PCB-178	0.47	0.38-0.52	y	99.9	75 - 125

Analyst: DMS

Date: 1/27/15

	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
	PCB-1	5.47e+07	3.00 y	1.33	16:08	1.001	0.997	1.007	40.9068
	PCB-2	5.41e+07	3.05 y	1.30	18:31	0.988	0.983	0.993	40.3714
	PCB-3	5.41e+07	3.02 y	1.30	18:45	1.001	0.996	1.006	40.2482
	PCB-4/10	8.52e+07	1.62 y	1.67	20:07	1.003	0.997	1.007	87.5905
	PCB-7/9	1.03e+08	1.65 y	1.25	21:54	0.868	0.864	0.872	89.7626
	PCB-6	5.05e+07	1.65 y	1.24	22:33	0.894	0.888	0.897	44.7033
	PCB-5/8	1.05e+08	1.62 y	1.27	22:58	0.910	0.905	0.915	90.1971
	PCB-14	6.05e+07	1.62 y	1.47	24:03	0.953	0.948	0.958	44.9042
	PCB-11	5.16e+07	1.64 y	1.28	25:15	1.001	0.995	1.005	43.8664
	PCB-12/13	1.04e+08	1.64 y	1.27	25:39	1.017	1.011	1.021	89.8068
	PCB-15	5.89e+07	1.63 y	1.44	25:57	1.028	1.023	1.031	44.6159
	PCB-19	3.53e+07	1.08 y	1.18	24:14	1.001	0.996	1.006	50.6938
	PCB-30	5.69e+07	1.07 y	1.87	25:08	1.038	1.033	1.043	51.6030
	PCB-18	3.99e+07	1.08 y	0.89	25:53	0.954	0.949	0.959	50.1394
	PCB-17	4.30e+07	1.07 y	0.96	26:03	0.960	0.956	0.966	50.1262
	PCB-24/27	1.11e+08	1.07 y	1.30	26:37	0.981	0.977	0.987	95.3538
-	PCB-16/32	9.28e+07	1.06 y	1.05	27:08	1.000	0.996	1.006	98.7466
-	PCB-34	3.57e+07	1.01 y	1.30	27:55	0.960	0.955	0.965	38.6435
	PCB-23	3.84e+07	1.01 y	1.21	28:01	0.963	0.958	0.968	44.6634
	PCB-29	3.58e+07	0.99 y	1.21	28:16	0.972	0.967	0.977	41.6446
	PCB-26	3.78e+07	1.03 y	1.24	28:28	0.979	0.974	0.984	42.9857
	PCB-25	3.22e+07	1.03 y	1.10	28:39	0.985	0.980	0.990	41.2951
	PCB-31	4.04e+07	1.00 y	1.25	29:00	0.997	0.992	1.002	45.3726
	PCB-28	3.93e+07	1.01 y	1.24	29:06	1.000	0.996	1.006	44.6883
	PCB-20/21/33	1.11e+08	1.00 y	1.16	29:43	1.022	1.016	1.026	135.059
	PCB-22	3.33e+07	1.01 y	1.16	30:10	1.037	1.032	1.042	40.2471
	PCB-36	3.49e+07	0.99 y	1.30	30:46	0.934	0.929	0.939	39.2038
	PCB-39	3.66e+07	1.01 y	1.26	31:14	0.948	0.943	0.953	42.4326
	PCB-38	3.54e+07	1.01 y	1.24	32:01	0.971	0.967	0.977	41.6159
	PCB-35	3.59e+07	1.02 y	1.26	32:32	0.987	0.982	0.992	41.8105
	PCB-37	3.93e+07	1.00 y	1.35	32:58	1.000	0.996	1.006	42.6195
	PCB-54	3.89e+07	0.74 y	1.02	27:59	1.001	0.996	1.006	47.2038
	PCB-50	3.26e+07	0.75 y	0.78	29:09	1.042	1.037	1.047	52.1093
	PCB-53	3.17e+07	0.77 y	1.14	29:48	0.946	0.941	0.951	46.4152
	PCB-51	3.08e+07	0.75 y	1.16	30:08	0.957	0.952	0.962	44.0813
	PCB-45	2.82e+07	0.75 y	1.04	30:33	0.970	0.965	0.975	45.1038
	PCB-46	2.71e+07	0.75 y	0.95	31:03	0.986	0.981	0.991	47.5173

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-52/69	7.04e+07	0.75 y	1.29	31:31	1.000	0.996	1.006	90.7731
PCB-73	4.02e+07	0.76 y	1.41	31:38	1.004	0.999	1.009	47.4149
PCB-43/49	6.45e+07	0.75 y	1.14	31:48	1.009	1.005	1.015	94.2489
PCB-47	3.34e+07	0.76 y	1.20	32:01	1.000	0.996	1.006	43.4094
PCB-48/75	7.80e+07	0.76 y	1.33	32:08	1.004	0.999	1.009	91.6774
PCB-65	4.07e+07	0.75 y	1.32	32:24	1.012	1.007	1.017	48.1762
PCB-62	3.75e+07	0.77 y	1.36	32:30	1.015	1.011	1.021	43.0136
PCB-44	2.72e+07	0.76 y	0.87	32:49	1.025	1.020	1.030	48.7186
PCB-42/59	7.48e+07	0.76 y	1.24	33:02	1.032	1.027	1.037	94.2944
PCB-41/64/71/72	1.60e+08	0.76 y	1.34	33:37	1.050	1.045	1.055	186.047
PCB-68	4.60e+07	0.75 y	1.61	33:53	1.059	1.053	1.063	44.5860
PCB-40	2.62e+07	0.77 y	0.86	34:06	1.065	1.061	1.071	47.7334
PCB-57	4.24e+07	0.76 y	1.12	34:27	0.970	0.965	0.975	46.0496
PCB-67	4.08e+07	0.84 y	1.09	34:46	0.979	0.974	0.984	45.4730
PCB-58	4.50e+07	0.71 y	1.14	34:52	0.982	0.977	0.987	48.1868
PCB-63	4.45e+07	0.75 y	1.16	35:02	0.986	0.981	0.991	46.6119
PCB-74	4.60e+07	0.77 y	1.21	35:20	0.995	0.989	0.999	46.2113
PCB-61/70	8.55e+07	0.76 y	1.13	35:30	0.999	0.995	1.005	92.5183
PCB-76/66	8.91e+07	0.76 y	1.18	35:42	1.005	1.000	1.010	91.9228
PCB-80	5.02e+07	0.76 y	1.32	35:57	1.000	0.995	1.005	45.6469
PCB-55	4.65e+07	0.76 y	1.23	36:15	1.009	1.004	1.014	45.5748
PCB-56/60	8.56e+07	0.76 y	1.11	36:46	1.023	1.018	1.028	93.2828
PCB-79	4.58e+07	0.76 y	1.16	37:50	1.053	1.048	1.058	47.5165
PCB-78	4.46e+07	0.77 y	1.18	38:32	0.987	0.982	0.992	46.3949
PCB-81	4.68e+07	0.76 y	1.29	39:02	1.000	0.995	1.005	44.4280
PCB-77	4.59e+07	0.79 y	1.29	39:39	1.001	0.995	1.005	46.1367
PCB-104	3.60e+07	1.57 y	1.26	32:41	1.001	0.996	1.006	48.0431
PCB-96	3.19e+07	1.57 y	1.09	33:56	1.039	1.034	1.044	49.1326
PCB-103	2.91e+07	1.62 y	0.97	34:29	1.056	1.051	1.061	50.5950
PCB-100	2.93e+07	1.58 y	0.96	34:49	1.066	1.061	1.071	51.1995
PCB-94	2.45e+07	1.58 y	1.13	35:17	0.985	0.980	0.990	49.2611
PCB-95/98/102	8.00e+07	1.59 y	1.29	35:47	0.999	0.994	1.004	140.904
PCB-93	2.59e+07	1.59 y	1.06	35:55	1.003	0.998	1.008	55.4334
PCB-88/91	5.10e+07	1.59 y	1.12	36:12	1.011	1.006	1.016	103.081
PCB-121	3.66e+07	1.62 y	1.76	36:19	1.014	1.009	1.019	47.1828
PCB-84/92	5.13e+07	1.58 y	1.07	37:08	0.990	0.985	0.995	99.3318
PCB-89	2.47e+07	1.57 y	1.00	37:19	0.995	0.990	1.000	51.4143

RL: MONO, TRI - DECA: —

RL: DI : —

Integrations by Analyst: DMJ

Date: 1/27/15

Reviewed by Analyst: _____

Date: _____

Client ID: PCB CS3 14L1801 Filename: 150127E1 S:1 Acq:27-JAN-15 10:38:35 ConCal: ST150127E1-1

Lab ID: ST150127E1-1 GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-90/101	5.58e+07	1.57	y	1.21	37:30	1.000	0.995	1.005	95.9372
	PCB-113	3.37e+07	1.57	y	1.34	37:45	1.007	1.002	1.012	52.1827
	PCB-99	2.67e+07	1.61	y	1.25	37:51	1.009	1.004	1.014	44.4677
	PCB-119	3.75e+07	1.57	y	1.88	38:18	0.987	0.982	0.992	46.1410
	PCB-108/112	5.81e+07	1.57	y	1.41	38:27	0.991	0.986	0.996	95.4878
	PCB-83	3.51e+07	1.55	y	1.66	38:37	0.995	0.990	1.000	48.8946
	PCB-97	2.72e+07	1.56	y	1.30	38:49	1.001	0.995	1.005	48.5299
	PCB-86	1.99e+07	1.58	y	1.03	38:58	1.004	0.999	1.009	44.6515
	B-87/117/125	9.54e+07	1.59	y	1.59	39:05	1.007	1.002	1.012	138.653
	PCB-111/115	7.64e+07	1.56	y	1.86	39:15	1.012	1.006	1.016	95.1099
	PCB-85/116	5.43e+07	1.61	y	1.39	39:22	1.015	1.010	1.020	90.1797
	PCB-120	3.75e+07	1.57	y	1.99	39:37	1.021	1.016	1.026	43.6889
	PCB-110	3.42e+07	1.62	y	1.70	39:45	1.025	1.019	1.029	46.4162
	PCB-82	2.15e+07	1.61	y	0.74	40:22	0.976	0.971	0.981	48.6641
	PCB-124	3.68e+07	1.60	y	1.30	41:03	0.993	0.988	0.998	47.4005
	PCB-107/109	7.40e+07	1.59	y	1.34	41:12	0.996	0.991	1.001	92.9760
	PCB-123	3.56e+07	1.57	y	1.25	41:22	1.000	0.995	1.005	47.7383
-	PCB-106/118	7.52e+07	1.59	y	1.29	41:35	1.001	0.996	1.006	96.3479
-	PCB-114	3.72e+07	1.61	y	1.45	42:12	1.000	0.995	1.005	43.6153
	PCB-122	3.28e+07	1.67	y	1.22	42:20	1.003	0.999	1.009	45.8095
	PCB-105	3.76e+07	1.61	y	1.56	43:04	1.000	0.995	1.005	41.6800
	PCB-127	3.41e+07	1.63	y	1.31	43:24	1.000	0.995	1.005	42.7931
	PCB-126	3.51e+07	1.61	y	1.41	45:19	1.001	0.995	1.005	43.3476
	PCB-155	3.04e+07	1.26	y	1.20	37:04	1.001	0.966	1.006	47.9774
	PCB-150	2.88e+07	1.27	y	1.13	38:19	1.034	1.030	1.040	48.2958
	PCB-152	2.91e+07	1.26	y	1.17	38:48	1.047	1.043	1.053	47.1969
	PCB-145	2.78e+07	1.28	y	1.09	39:15	1.059	1.055	1.065	48.1770
	PCB-136	3.01e+07	1.26	y	1.14	39:34	1.068	1.063	1.073	49.9864
	PCB-148	2.08e+07	1.29	y	0.82	39:41	1.071	1.066	1.076	48.1849
	PCB-154	2.37e+07	1.26	y	0.89	40:10	1.084	1.079	1.089	50.3670
	PCB-151	2.28e+07	1.28	y	0.82	40:48	1.101	1.097	1.107	52.6911
	PCB-135	2.10e+07	1.26	y	0.80	41:01	1.107	1.101	1.113	49.9063
	PCB-144	2.43e+07	1.27	y	0.86	41:07	1.110	1.105	1.116	53.8116
	PCB-147	2.04e+07	1.26	y	0.78	41:15	1.114	1.108	1.120	49.6827
	PCB-139/149	4.61e+07	1.27	y	0.87	41:31	1.121	1.115	1.127	100.344
-	PCB-140	2.16e+07	1.28	y	0.78	41:42	1.126	1.120	1.132	52.5936
-	PCB-134/143	5.45e+07	1.24	y	0.93	42:08	0.975	0.970	0.980	92.4566

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
PCB-133/142	5.46e+07	1.24	y	0.91	42:26	0.982	0.977	0.987	94.8854
PCB-131	2.62e+07	1.25	y	0.85	42:35	0.986	0.981	0.991	48.8303
PCB-146/165	6.44e+07	1.25	y	1.08	42:49	0.991	0.986	0.996	94.0271
PCB-132/161	6.47e+07	1.23	y	1.12	43:03	0.996	0.992	1.002	91.2960
PCB-153	3.25e+07	1.26	y	1.20	43:14	1.001	0.996	1.006	42.8487
PCB-168	3.95e+07	1.24	y	1.36	43:26	1.005	1.000	1.010	46.0202
PCB-141	2.90e+07	1.22	y	1.16	43:58	1.000	0.995	1.005	45.5447
PCB-137	3.09e+07	1.27	y	1.18	44:21	1.009	1.004	1.014	47.7506
PCB-130	2.53e+07	1.23	y	0.92	44:28	1.012	1.006	1.016	49.9214
PCB-138/163/164	1.04e+08	1.25	y	1.38	44:50	1.001	0.996	1.006	131.637
PCB-158/160	7.64e+07	1.24	y	1.48	45:05	1.007	1.001	1.011	90.3669
PCB-129	2.59e+07	1.25	y	0.99	45:19	1.012	1.007	1.017	45.6662
PCB-166	3.70e+07	1.24	y	1.14	45:46	0.993	0.988	0.998	47.1002
PCB-159	3.85e+07	1.28	y	1.22	46:06	1.000	0.995	1.005	45.8373
PCB-128/162	6.65e+07	1.27	y	1.03	46:22	1.006	1.002	1.012	93.5480
PCB-167	3.81e+07	1.25	y	1.18	46:46	1.000	0.995	1.005	46.6820
PCB-156	3.95e+07	1.24	y	1.27	48:04	1.000	0.995	1.005	45.2388
PCB-157	4.02e+07	1.27	y	1.22	48:20	1.000	0.995	1.005	46.9049
PCB-169	3.62e+07	1.25	y	1.07	50:30	1.000	0.995	1.005	47.7008
PCB-188	3.54e+07	1.06	y	1.52	42:52	1.000	0.996	1.006	47.4220
PCB-184	3.22e+07	1.06	y	1.34	43:19	1.011	1.006	1.016	49.0503
PCB-179	3.33e+07	1.06	y	1.39	44:06	1.029	1.024	1.034	48.9203
PCB-176	3.56e+07	1.06	y	1.45	44:33	1.040	1.035	1.045	49.9577
PCB-186	3.55e+07	1.07	y	1.46	45:10	1.054	1.049	1.059	49.7031
PCB-178	2.62e+07	1.05	y	1.07	45:39	1.066	1.061	1.071	49.7286
PCB-175	2.60e+07	1.06	y	1.05	46:00	1.074	1.069	1.079	50.5887
PCB-182/187	5.58e+07	1.05	y	1.14	46:11	1.078	1.073	1.083	100.232
PCB-183	2.94e+07	1.05	y	1.22	46:30	1.085	1.080	1.090	48.9601
PCB-185	2.67e+07	1.06	y	1.40	47:09	0.956	0.950	0.960	48.9174
PCB-174	2.32e+07	1.04	y	1.29	47:30	0.963	0.958	0.968	46.4710
PCB-181	2.69e+07	1.05	y	1.35	47:37	0.965	0.960	0.970	51.3818
PCB-177	2.37e+07	1.06	y	1.27	47:47	0.969	0.963	0.973	48.2979
PCB-171	2.64e+07	1.06	y	1.46	48:05	0.975	0.969	0.979	46.7148
PCB-173	2.23e+07	1.06	y	1.10	48:30	0.983	0.978	0.988	52.0106
PCB-172	2.50e+07	1.06	y	1.35	48:57	0.992	0.987	0.997	47.6271
PCB-192	3.23e+07	1.05	y	1.74	49:09	0.996	0.991	1.001	47.8622
PCB-180	2.62e+07	1.04	y	1.45	49:21	1.000	0.995	1.005	46.5968

RL: MONO, TRI - DECA: —

Integrations by Analyst: DMS

Date: 1/27/15

Client ID: PCB CS3 14L1801 Filename: 150127E1 S:1 Acq:27-JAN-15 10:38:35 ConCal: ST150127E1-1

Lab ID: ST150127E1-1 GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-193	3.40e+07	1.06	y	1.85	49:34	1.005	0.999	1.009	47.3230
	PCB-191	3.48e+07	1.07	y	1.86	49:49	1.010	1.005	1.015	48.1208
	PCB-170	2.50e+07	1.06	y	1.67	50:53	1.000	0.995	1.005	46.3590
	PCB-190	3.40e+07	1.04	y	2.25	51:04	1.004	0.999	1.009	46.9551
	PCB-189	3.32e+07	1.03	y	1.67	52:25	1.000	0.995	1.005	48.1387
	PCB-202	2.40e+07	0.90	y	1.02	48:17	1.001	0.995	1.005	49.7766
	PCB-201	2.71e+07	0.91	y	1.10	48:46	1.011	1.005	1.015	52.2611
	PCB-204	2.50e+07	0.89	y	1.07	48:55	1.014	1.009	1.019	49.1474
	PCB-197	2.81e+07	0.91	y	1.17	49:13	1.020	1.015	1.025	50.8189
	PCB-200	2.56e+07	0.91	y	1.03	50:08	1.039	1.034	1.044	52.1512
	PCB-198	1.99e+07	0.91	y	0.75	51:30	1.067	1.062	1.072	55.8352
	PCB-199	1.85e+07	0.91	y	0.74	51:36	1.069	1.064	1.074	52.6900
-	PCB-196/203	4.12e+07	0.89	y	0.83	51:53	1.075	1.070	1.080	104.916
-	PCB-195	2.03e+07	0.89	y	1.14	53:03	0.984	0.979	0.989	49.7679
	PCB-194	2.12e+07	0.90	y	1.29	53:55	1.000	0.995	1.005	45.9333
	PCB-205	2.64e+07	0.90	y	1.61	54:12	1.006	1.001	1.010	45.9369
	PCB-208	2.51e+07	1.32	y	1.01	53:12	1.000	0.995	1.005	46.4058
	PCB-207	2.46e+07	1.35	y	1.03	53:31	1.006	1.001	1.011	44.9084
	PCB-206	1.68e+07	1.31	y	0.88	55:33	1.000	0.995	1.005	47.2990
	PCB-209	2.51e+07	1.19	y	1.35	56:55	1.000	0.995	1.005	46.4096

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	1.63e+08	3.00	y	16:08	1.31	121.526	
Total Di-PCB	6.18e+08	1.62	y	20:07	1.32	535.447	
Total Tri-PCB	3.79e+08	1.08	y	24:14	1.20	396.663	
Total Tri-PCB	6.04e+08	1.01	y	27:55	1.23	703.147	Sum:1099.81
Total Tetra-PCB	1.65e+09	0.74	y	27:59	1.17	1957.88	
Total Penta-PCB	1.26e+09	1.57	y	32:41	1.24	1973.23	
Total Penta-PCB	1.88e+08	1.61	y	42:12	1.39	230.993	Sum:2204.22
Total Hexa-PCB	3.47e+08	1.26	y	37:04	0.94	699.215	
Total Hexa-PCB	9.34e+08	1.24	y	42:08	1.13	1308.02	Sum:2007.24
Total Hepta-PCB	7.09e+08	1.06	y	42:52	1.37	1176.78	
Total Octa-PCB	2.09e+08	0.90	y	48:17	0.95	467.627	
Total Octa-PCB	6.91e+07	0.89	y	53:03	1.35	144.108	Sum:611.735
Total Nona-PCB	6.71e+07	1.32	y	53:12	0.99	139.726	
Total Deca-PCB	2.51e+07	1.19	y	56:55	1.35	46.4096	

Total PCB Conc:9825.76118400

RL: MONO, TRI - DECA: [redacted]

Integrations by Analyst: DMS

Date: 1/27/15

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.00e+08	3.34 y	0.91	16:07	0.621	0.619	0.625	114	114
13C-PCB-3	1.04e+08	3.42 y	0.94	18:44	0.722	0.718	0.726	114	114
13C-PCB-4	5.81e+07	1.60 y	0.60	20:04	0.774	0.770	0.778	101	101
13C-PCB-9	9.14e+07	1.59 y	0.96	21:51	0.843	0.839	0.847	98.6	98.6
13C-PCB-11	9.17e+07	1.56 y	0.95	25:14	0.973	0.968	0.978	99.6	99.6
13C-PCB-19	5.88e+07	1.09 y	0.56	24:13	0.934	0.929	0.939	109	109
13C-PCB-28	7.12e+07	1.02 y	1.07	29:05	1.004	0.999	1.009	91.5	91.5
13C-PCB-32	8.98e+07	1.10 y	0.83	27:08	1.046	1.041	1.051	113	113
13C-PCB-37	6.83e+07	1.04 y	0.96	32:57	1.137	1.131	1.143	97.6	97.6
13C-PCB-47	6.42e+07	0.79 y	0.77	32:00	0.871	0.867	0.875	100	100
13C-PCB-52	6.01e+07	0.80 y	0.71	31:30	0.857	0.853	0.861	101	101
13C-PCB-54	8.05e+07	0.78 y	1.06	27:58	0.761	0.757	0.765	91.1	91.1
13C-PCB-70	8.22e+07	0.81 y	0.99	35:31	0.967	0.961	0.971	99.2	99.2
13C-PCB-77	7.71e+07	0.80 y	0.96	39:38	1.078	1.073	1.083	95.9	95.9
13C-PCB-80	8.31e+07	0.80 y	1.02	35:56	0.978	0.973	0.983	97.5	97.5
13C-PCB-81	8.17e+07	0.78 y	1.00	39:02	1.062	1.057	1.067	98.2	98.2
13C-PCB-95	4.40e+07	1.54 y	0.70	35:49	0.913	0.908	0.918	102	102
13C-PCB-97	4.32e+07	1.60 y	0.66	38:48	0.989	0.984	0.994	106	106
13C-PCB-101	4.82e+07	1.64 y	0.77	37:30	0.956	0.951	0.961	101	101
13C-PCB-104	5.93e+07	1.60 y	0.97	32:39	0.832	0.828	0.836	99.0	99.0
13C-PCB-105	5.79e+07	1.62 y	1.20	43:03	0.929	0.924	0.934	92.2	92.2
13C-PCB-114	5.86e+07	1.63 y	1.26	42:12	0.910	0.905	0.915	89.2	89.2
13C-PCB-118	6.04e+07	1.63 y	0.94	41:32	1.059	1.054	1.064	104	104
13C-PCB-123	5.96e+07	1.60 y	0.88	41:21	1.054	1.049	1.059	109	109
13C-PCB-126	5.72e+07	1.63 y	1.13	45:17	0.977	0.972	0.982	97.2	97.2
13C-PCB-127	6.10e+07	1.60 y	1.26	43:24	0.936	0.931	0.941	92.6	92.6
13C-PCB-138	5.73e+07	1.28 y	1.12	44:47	0.966	0.961	0.971	97.9	97.9
13C-PCB-141	5.50e+07	1.32 y	1.09	43:57	0.948	0.943	0.953	96.3	96.3
13C-PCB-153	6.34e+07	1.30 y	1.27	43:12	0.932	0.927	0.937	95.1	95.1
13C-PCB-155	5.28e+07	1.27 y	0.87	37:03	0.944	0.939	0.949	97.9	97.9
13C-PCB-156	6.88e+07	1.31 y	1.35	48:03	1.037	1.032	1.042	97.4	97.4
13C-PCB-157	7.03e+07	1.31 y	1.42	48:19	1.042	1.037	1.047	94.8	94.8
13C-PCB-159	6.87e+07	1.27 y	1.37	46:05	0.994	0.989	0.999	95.9	95.9
13C-PCB-167	6.89e+07	1.30 y	1.38	46:45	1.009	1.004	1.014	95.4	95.4
13C-PCB-169	7.06e+07	1.28 y	1.38	50:30	1.089	1.084	1.094	97.7	97.7
13C-PCB-170	3.22e+07	0.46 y	0.60	50:52	1.098	1.091	1.103	102	102
13C-PCB-180	3.88e+07	0.47 y	0.76	49:20	1.064	1.059	1.069	98.1	98.1
13C-PCB-188	4.90e+07	0.46 y	1.01	42:50	0.924	0.919	0.929	92.4	92.4
13C-PCB-189	4.12e+07	0.45 y	0.80	52:24	1.131	1.124	1.136	98.3	98.3
13C-PCB-194	3.57e+07	0.92 y	0.75	53:54	0.995	0.990	1.000	102	102
13C-PCB-202	4.74e+07	0.94 y	0.99	48:15	1.041	1.036	1.046	91.6	91.6
13C-PCB-206	4.04e+07	0.77 y	0.73	55:32	1.025	1.020	1.301	117	117
13C-PCB-208	5.33e+07	0.76 y	1.08	53:10	0.981	0.977	0.987	104	104
13C-PCB-209	4.02e+07	1.19 y	0.71	56:54	1.050	1.045	1.055	120	120

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	8.35e+07	0.79 y	1.02	37:49	1.029	1.024	1.033	98.1	98.1
13C-PCB-178	3.33e+07	0.47 y	0.64	45:38	0.985	0.980	0.989	99.9	99.9

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	8.35e+07	0.79 y	1.02	37:49	0.969	0.963	0.973	99.9	99.9
13C-PCB-178	3.33e+07	0.47 y	0.84	45:38	0.925	0.920	0.930	102	102

RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	9.66e+07	1.59	y	1.00	25:56	100
13C-PCB-31	7.28e+07	1.02	y	1.00	28:59	100
13C-PCB-60	8.33e+07	0.79	y	1.00	36:45	100
13C-PCB-111	6.20e+07	1.63	y	1.00	39:14	100
13C-PCB-128	5.23e+07	1.28	y	1.00	46:21	100
13C-PCB-205	4.72e+07	0.94	y	1.00	54:11	100

Analyst: DMS

Date: 1/27/15

Vista Analytical Laboratory - Injection Log Run file: 150127E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
150127E1	1	ST150127E1-1	DMS	27-JAN-15	10:38:35	ST150127E1-1	NA
150127E1	2	B5A0099-BS1	DMS	27-JAN-15	11:43:13	ST150127E1-1	NA
150127E1	3	SOLVENT BLANK	DMS	27-JAN-15	12:47:51	ST150127E1-1	NA
150127E1	4	B5A0099-BLK1	DMS	27-JAN-15	13:52:29	ST150127E1-1	NA
150127E1	5	1400970-01	DMS	27-JAN-15	14:57:06	ST150127E1-1	NA
150127E1	6	1500084-01	DMS	27-JAN-15	16:01:43	ST150127E1-1	NA
150127E1	7	1500084-02	DMS	27-JAN-15	17:06:20	ST150127E1-1	NA
150127E1	8	1500108-04	DMS	27-JAN-15	18:10:58	ST150127E1-1	NA
150127E1	9	1500116-03	DMS	27-JAN-15	19:15:33	ST150127E1-1	NA
150127E1	10	1400960-09@5X	DMS	27-JAN-15	20:20:10	ST150127E1-1	NA
150127E1	11	SOLVENT BLANK	DMS	27-JAN-15	21:24:47	ST150127E1-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST

Vista Analytical Laboratory

Beg. Calibration ID: ST150127E1-1 End Calibration ID: NA

	Beg.	End
Ion abundance within QC limits?	✓	NA
Concentration within range?	✓	
First and last eluters present?	✓	
Retention Times within criteria?	✓	
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	✓	
Forms signed and dated?	✓	
Correct ICAL referenced?	✓	
Run Log:		
-Data file matches Conc Cal ID?	✓	
-Correct instrument listed?	✓	✓
-Samples within 12-hour clock?	y	n

	Beg.	End
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	✓	✓
TCDD/TCDF valleys < 25%?	NA	NA
Peaks integrated correctly?	✓	
Manual integrations included?	✓	
8280 CS1 Ending Standard		
-Ratios within limits		
-S/N > 2.5:1		
-CS1 within 12-hour clock		

Comments:

Reviewed by: MN 1/29/15
Initials & Date

* *Ending standard criteria applicable to 8290 only.*

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150205E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: pcbvg8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150205E1 S#1 Analysis Date: 5-FEB-15 Time: 09:00:21

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	2.98	2.66-3.60	y	44.2	37.5-62.5
PCB-2	3.00	2.66-3.60	y	43.5	37.5-62.5
PCB-3	2.98	2.66-3.60	y	43.2	37.5-62.5
PCB-4/10	1.65	1.33-1.79	y	198.0	150-250
PCB-7/9	1.64	1.33-1.79	y	198.6	150-250
PCB-6	1.62	1.33-1.79	y	97.0	75.0-125
PCB-5/8	1.63	1.33-1.79	y	198.1	150-250
PCB-14	1.64	1.33-1.79	y	100.8	75.0-125
PCB-11	1.66	1.33-1.79	y	100.0	75.0-125
PCB-12/13	1.65	1.33-1.79	y	196.9	150-250
PCB-15	1.65	1.33-1.79	y	99.1	75.0-125
PCB-19	1.05	0.88-1.20	y	48.4	37.5-62.5
PCB-30	1.05	0.88-1.20	y	47.5	37.5-62.5
PCB-18	1.04	0.88-1.20	y	50.1	37.5-62.5
PCB-17	1.05	0.88-1.20	y	49.2	37.5-62.5
PCB-24/27	1.05	0.88-1.20	y	97.9	75.0-125
PCB-16/32	1.05	0.88-1.20	y	98.0	75.0-125
PCB-34	1.06	0.88-1.20	y	49.9	37.5-62.5
PCB-23	1.07	0.88-1.20	y	55.2	37.5-62.5
PCB-29	1.08	0.88-1.20	y	53.7	37.5-62.5
PCB-26	1.09	0.88-1.20	y	53.6	37.5-62.5
PCB-25	1.09	0.88-1.20	y	56.1	37.5-62.5
PCB-31	1.06	0.88-1.20	y	54.0	37.5-62.5
PCB-28	1.09	0.88-1.20	y	54.3	37.5-62.5
PCB-20/21/33	1.07	0.88-1.20	y	168.8	112.5-225
PCB-22	1.06	0.88-1.20	y	54.4	37.5-62.5
PCB-36	1.07	0.88-1.20	y	52.4	37.5-62.5
PCB-39	1.07	0.88-1.20	y	53.3	37.5-62.5
PCB-38	1.07	0.88-1.20	y	49.4	37.5-62.5
PCB-35	1.07	0.88-1.20	y	55.7	37.5-62.5
PCB-37	1.08	0.88-1.20	y	53.2	37.5-62.5
PCB-54	0.78	0.65-0.89	y	50.0	37.5-62.5
PCB-50	0.77	0.65-0.89	y	50.9	37.5-62.5
PCB-53	0.76	0.65-0.89	y	50.9	37.5-62.5
PCB-51	0.76	0.65-0.89	y	49.7	37.5-62.5
PCB-45	0.78	0.65-0.89	y	51.0	37.5-62.5
PCB-46	0.77	0.65-0.89	y	51.1	37.5-62.5
PCB-52/69	0.76	0.65-0.89	y	104.3	75.0-125
PCB-73	0.77	0.65-0.89	y	45.9	37.5-62.5
PCB-43/49	0.78	0.65-0.89	y	99.5	75.0-125
PCB-47	0.75	0.65-0.89	y	47.9	37.5-62.5
PCB-48/75	0.76	0.65-0.89	y	106.8	75.0-125
PCB-65	0.76	0.65-0.89	y	52.8	37.5-62.5
PCB-62	0.77	0.65-0.89	y	51.6	37.5-62.5
PCB-44	0.80	0.65-0.89	y	52.8	37.5-62.5
PCB-42/59	0.77	0.65-0.89	y	104.6	75.0-125
PCB-41/64/71/72	0.78	0.65-0.89	y	205.6	150-250
PCB-68	0.78	0.65-0.89	y	51.4	37.5-62.5
PCB-40	0.76	0.65-0.89	y	54.3	37.5-62.5
PCB-57	0.78	0.65-0.89	y	51.2	37.5-62.5
PCB-67	0.76	0.65-0.89	y	49.2	37.5-62.5
PCB-58	0.79	0.65-0.89	y	52.7	37.5-62.5
PCB-63	0.77	0.65-0.89	y	50.2	37.5-62.5
PCB-74	0.79	0.65-0.89	y	49.2	37.5-62.5
PCB-61/70	0.79	0.65-0.89	y	104.3	75.0-125
PCB-76/66	0.76	0.65-0.89	y	100.8	75.0-125
PCB-80	0.78	0.65-0.89	y	51.7	37.5-62.5
PCB-55	0.77	0.65-0.89	y	52.3	37.5-62.5
PCB-56/60	0.77	0.65-0.89	y	103.7	75.0-125
PCB-79	0.80	0.65-0.89	y	51.4	37.5-62.5
PCB-78	0.77	0.65-0.89	y	49.5	37.5-62.5
PCB-81	0.76	0.65-0.89	y	49.9	37.5-62.5
PCB-77	0.80	0.65-0.89	y	51.5	37.5-62.5
PCB-104	1.62	1.32-1.78	y	53.0	37.5-62.5
PCB-96	1.61	1.32-1.78	y	51.9	37.5-62.5
PCB-103	1.60	1.32-1.78	y	52.7	37.5-62.5
PCB-100	1.62	1.32-1.78	y	53.4	37.5-62.5
PCB-94	1.62	1.32-1.78	y	51.6	37.5-62.5
PCB-95/98/102	1.58	1.32-1.78	y	156.5	112.5-225
PCB-93	1.67	1.32-1.78	y	57.4	37.5-62.5
PCB-88/91	1.61	1.32-1.78	y	116.6	75.0-125
PCB-121	1.63	1.32-1.78	y	48.2	37.5-62.5

Analyst: DMS

Date: 2/9/15

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150205E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: pcbvg8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150205E1 S#1 Analysis Date: 5-FEB-15 Time: 09:00:21

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-84/92	1.62	1.32-1.78	y	105.1	75.0-125	PCB-140	1.27	1.05-1.43	y	55.8	37.5-62.5
PCB-89	1.62	1.32-1.78	y	52.4	37.5-62.5	PCB-134/143	1.23	1.05-1.43	y	98.5	75.0-125
PCB-90/101	1.58	1.32-1.78	y	104.6	75.0-125	PCB-133/142	1.24	1.05-1.43	y	98.1	75.0-125
PCB-113	1.56	1.32-1.78	y	50.2	37.5-62.5	PCB-131	1.22	1.05-1.43	y	47.9	37.5-62.5
PCB-99	1.61	1.32-1.78	y	56.8	37.5-62.5	PCB-146/165	1.24	1.05-1.43	y	95.4	75.0-125
PCB-119	1.59	1.32-1.78	y	51.7	37.5-62.5	PCB-132/161	1.23	1.05-1.43	y	95.4	75.0-125
PCB-108/112	1.62	1.32-1.78	y	104.2	75.0-125	PCB-153	1.23	1.05-1.43	y	48.3	37.5-62.5
PCB-83	1.59	1.32-1.78	y	50.4	37.5-62.5	PCB-168	1.24	1.05-1.43	y	48.5	37.5-62.5
PCB-97	1.64	1.32-1.78	y	50.8	37.5-62.5	PCB-141	1.25	1.05-1.43	y	47.9	37.5-62.5
PCB-86	1.60	1.32-1.78	y	58.5	37.5-62.5	PCB-137	1.22	1.05-1.43	y	50.5	37.5-62.5
PCB-87/117/125	1.59	1.32-1.78	y	153.9	112.5-225	PCB-130	1.26	1.05-1.43	y	47.3	37.5-62.5
PCB-111/115	1.59	1.32-1.78	y	104.3	75.0-125	PCB-138/163/164	1.21	1.05-1.43	y	142.0	112.5-225
PCB-85/116	1.60	1.32-1.78	y	98.6	75.0-125	PCB-158/160	1.22	1.05-1.43	y	97.8	75.0-125
PCB-120	1.60	1.32-1.78	y	50.5	37.5-62.5	PCB-129	1.20	1.05-1.43	y	49.3	37.5-62.5
PCB-110	1.60	1.32-1.78	y	52.0	37.5-62.5	PCB-166	1.23	1.05-1.43	y	47.7	37.5-62.5
PCB-82	1.60	1.32-1.78	y	53.0	37.5-62.5	PCB-159	1.21	1.05-1.43	y	47.6	37.5-62.5
PCB-124	1.58	1.32-1.78	y	50.7	37.5-62.5	PCB-128/162	1.20	1.05-1.43	y	94.5	75.0-125
PCB-107/109	1.62	1.32-1.78	y	104.3	75.0-125	PCB-167	1.22	1.05-1.43	y	49.1	37.5-62.5
PCB-123	1.60	1.32-1.78	y	51.4	37.5-62.5	PCB-156	1.25	1.05-1.43	y	49.2	37.5-62.5
PCB-106/118	1.61	1.32-1.78	y	104.2	75.0-125	PCB-157	1.22	1.05-1.43	y	48.3	37.5-62.5
PCB-114	1.64	1.32-1.78	y	52.1	37.5-62.5	PCB-169	1.24	1.05-1.43	y	46.6	37.5-62.5
PCB-122	1.62	1.32-1.78	y	51.6	37.5-62.5	PCB-188	1.07	0.89-1.21	y	50.0	37.5-62.5
PCB-105	1.63	1.32-1.78	y	52.6	37.5-62.5	PCB-184	1.07	0.89-1.21	y	50.3	37.5-62.5
PCB-127	1.64	1.32-1.78	y	52.4	37.5-62.5	PCB-179	1.06	0.89-1.21	y	49.4	37.5-62.5
PCB-126	1.64	1.32-1.78	y	53.9	37.5-62.5	PCB-176	1.06	0.89-1.21	y	48.4	37.5-62.5
PCB-155	1.28	1.05-1.43	y	51.5	37.5-62.5	PCB-186	1.07	0.89-1.21	y	49.7	37.5-62.5
PCB-150	1.32	1.05-1.43	y	53.1	37.5-62.5	PCB-178	1.06	0.89-1.21	y	49.7	37.5-62.5
PCB-152	1.29	1.05-1.43	y	51.3	37.5-62.5	PCB-175	1.05	0.89-1.21	y	52.2	37.5-62.5
PCB-145	1.32	1.05-1.43	y	51.9	37.5-62.5	PCB-182/187	1.05	0.89-1.21	y	98.9	75.0-125
PCB-136	1.29	1.05-1.43	y	54.6	37.5-62.5	PCB-183	1.07	0.89-1.21	y	49.0	37.5-62.5
PCB-148	1.28	1.05-1.43	y	50.2	37.5-62.5	PCB-185	1.07	0.89-1.21	y	48.6	37.5-62.5
PCB-154	1.22	1.05-1.43	y	54.0	37.5-62.5	PCB-174	1.06	0.89-1.21	y	49.2	37.5-62.5
PCB-151	1.31	1.05-1.43	y	54.5	37.5-62.5	PCB-181	1.06	0.89-1.21	y	51.1	37.5-62.5
PCB-135	1.28	1.05-1.43	y	51.6	37.5-62.5	PCB-177	1.04	0.89-1.21	y	50.8	37.5-62.5
PCB-144	1.31	1.05-1.43	y	58.7	37.5-62.5	PCB-171	1.05	0.89-1.21	y	49.8	37.5-62.5
PCB-147	1.29	1.05-1.43	y	53.7	37.5-62.5	PCB-173	1.05	0.89-1.21	y	50.4	37.5-62.5
PCB-139/149	1.28	1.05-1.43	y	107.1	75.0-125	PCB-172	1.09	0.89-1.21	y	50.1	37.5-62.5

Analyst: DMS

Date: 2/9/15

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150205E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: pcbvg8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150205E1 S#1 Analysis Date: 5-FEB-15 Time: 09:00:21

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-192	1.06	0.89-1.21	y	50.8	37.5-62.5
PCB-180	1.08	0.89-1.21	y	49.7	37.5-62.5
PCB-193	1.07	0.89-1.21	y	48.7	37.5-62.5
PCB-191	1.07	0.89-1.21	y	48.7	37.5-62.5
PCB-170	1.04	0.89-1.21	y	50.9	37.5-62.5
PCB-190	1.08	0.89-1.21	y	49.3	37.5-62.5
PCB-189	1.03	0.89-1.21	y	48.8	37.5-62.5
PCB-202	0.92	0.76-1.02	y	49.4	37.5-62.5
PCB-201	0.90	0.76-1.02	y	50.2	37.5-62.5
PCB-204	0.92	0.76-1.02	y	48.2	37.5-62.5
PCB-197	0.88	0.76-1.02	y	49.6	37.5-62.5
PCB-200	0.89	0.76-1.02	y	49.7	37.5-62.5
PCB-198	0.89	0.76-1.02	y	52.1	37.5-62.5
PCB-199	0.89	0.76-1.02	y	49.4	37.5-62.5
PCB-196/203	0.90	0.76-1.02	y	101.3	75.0-125
PCB-195	0.91	0.76-1.02	y	47.2	37.5-62.5
PCB-194	0.91	0.76-1.02	y	48.3	37.5-62.5
PCB-205	0.94	0.76-1.02	y	48.8	37.5-62.5
PCB-208	1.35	1.14-1.54	y	50.8	37.5-62.5
PCB-207	1.35	1.14-1.54	y	52.5	37.5-62.5
PCB-206	1.34	1.14-1.54	y	50.5	37.5-62.5
PCB-209	1.18	0.99-1.33	y	51.4	37.5-62.5

Analyst: DMS

Date: 2/9/15

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150205E1-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: pcbvg8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150205E1 S#1 Analysis Date: 5-FEB-15 Time: 09:00:21

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-1	3.27	2.66-3.60	y	116.5	50.0-145
13C-PCB-3	3.23	2.66-3.60	y	116.6	50.0-145
13C-PCB-4	1.60	1.33-1.79	y	104.3	50.0-145
13C-PCB-9	1.60	1.33-1.79	y	102.0	50.0-145
13C-PCB-11	1.57	1.33-1.79	y	100.0	50.0-145
13C-PCB-19	1.08	0.88-1.20	y	102.0	50.0-145
13C-PCB-32	1.08	0.88-1.20	y	97.9	50.0-145
13C-PCB-28	1.07	0.88-1.20	y	97.4	50.0-145
13C-PCB-37	1.06	0.88-1.20	y	102.4	50.0-145
13C-PCB-54	0.81	0.65-0.89	y	93.8	50.0-145
13C-PCB-52	0.80	0.65-0.89	y	98.1	50.0-145
13C-PCB-47	0.80	0.65-0.89	y	96.2	50.0-145
13C-PCB-70	0.79	0.65-0.89	y	98.4	50.0-145
13C-PCB-80	0.82	0.65-0.89	y	97.4	50.0-145
13C-PCB-81	0.80	0.65-0.89	y	99.0	50.0-145
13C-PCB-77	0.81	0.65-0.89	y	97.5	50.0-145
13C-PCB-104	1.61	1.32-1.78	y	97.5	50.0-145
13C-PCB-95	1.60	1.32-1.78	y	97.6	50.0-145
13C-PCB-101	1.64	1.32-1.78	y	97.8	50.0-145
13C-PCB-97	1.62	1.32-1.78	y	101.2	50.0-145
13C-PCB-123	1.63	1.32-1.78	y	102.2	50.0-145
13C-PCB-118	1.57	1.32-1.78	y	100.2	50.0-145
13C-PCB-114	1.62	1.32-1.78	y	93.4	50.0-145
13C-PCB-105	1.57	1.32-1.78	y	90.5	50.0-145
13C-PCB-127	1.63	1.32-1.78	y	90.4	50.0-145
13C-PCB-126	1.58	1.32-1.78	y	93.3	50.0-145
13C-PCB-155	1.31	1.05-1.43	y	83.3	50.0-145
13C-PCB-153	1.27	1.05-1.43	y	97.1	50.0-145
13C-PCB-141	1.28	1.05-1.43	y	95.5	50.0-145
13C-PCB-138	1.30	1.05-1.43	y	97.5	50.0-145
13C-PCB-159	1.30	1.05-1.43	y	99.1	50.0-145
13C-PCB-167	1.28	1.05-1.43	y	98.1	50.0-145
13C-PCB-156	1.28	1.05-1.43	y	99.9	50.0-145
13C-PCB-157	1.28	1.05-1.43	y	97.1	50.0-145
13C-PCB-169	1.30	1.05-1.43	y	101.3	50 - 145
13C-PCB-188	0.43	0.38-0.52	y	93.3	50 - 145
13C-PCB-180	0.46	0.38-0.52	y	96.6	50 - 145
13C-PCB-170	0.47	0.38-0.52	y	97.0	50 - 145
13C-PCB-189	0.46	0.38-0.52	y	96.9	50 - 145
13C-PCB-202	0.94	0.76-1.02	y	89.1	50 - 145
13C-PCB-194	0.89	0.76-1.02	y	100.1	50 - 145
13C-PCB-208	0.77	0.65-0.89	y	93.2	50 - 145
13C-PCB-206	0.80	0.65-0.89	y	105.0	50 - 145
13C-PCB-209	1.23	0.99-1.33	y	115.4	50 - 145

CRS vs. RS

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-79	0.80	0.65-0.89	y	99.0	75 - 125
13C-PCB-178	0.48	0.38-0.52	y	94.7	75 - 125

Analyst: DMS

Date: 2/9/15

Client ID: PCB CS3 14K1102 Filename: 150205E1 S:1 Acq: 5-FEB-15 09:00:21 ConCal: ST150205E1-1

Lab ID: ST150205E1-1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-1	4.89e+07	2.98	y	1.19	16:09	1.001	0.996	1.006	44.2040
	PCB-2	5.00e+07	3.00	y	1.18	18:31	0.988	0.984	0.994	43.5057
	PCB-3	5.98e+07	2.98	y	1.43	18:45	1.001	0.996	1.006	43.2440
	PCB-4/10	1.73e+08	1.65	y	1.57	20:07	1.003	0.997	1.007	197.966
	PCB-7/9	2.01e+08	1.64	y	1.21	21:53	0.868	0.866	0.874	198.623
	PCB-6	1.06e+08	1.62	y	1.30	22:31	0.893	0.890	0.899	97.0445
	PCB-5/8	1.90e+08	1.63	y	1.15	22:57	0.910	0.907	0.917	198.052
	PCB-14	9.57e+07	1.64	y	1.11	24:02	0.953	0.949	0.959	100.771
	PCB-11	9.30e+07	1.66	y	1.09	25:13	1.000	0.995	1.005	100.024
	PCB-12/13	2.01e+08	1.65	y	1.19	25:37	1.016	1.011	1.021	196.924
	PCB-15	1.09e+08	1.65	y	1.28	25:56	1.029	1.023	1.033	99.0549
	PCB-19	2.50e+07	1.05	y	1.04	24:13	1.001	0.996	1.006	48.3657
	PCB-30	4.02e+07	1.05	y	1.71	25:06	1.038	1.032	1.042	47.4557
	PCB-18	2.79e+07	1.04	y	0.78	25:51	0.954	0.949	0.959	50.1458
	PCB-17	3.23e+07	1.05	y	0.92	26:01	0.960	0.956	0.966	49.1995
	PCB-24/27	8.28e+07	1.05	y	1.19	26:36	0.981	0.977	0.987	97.8671
-	PCB-16/32	6.55e+07	1.05	y	0.94	27:07	1.000	0.995	1.005	97.9906
-	PCB-34	4.37e+07	1.06	y	1.14	27:54	0.960	0.955	0.965	49.8873
	PCB-23	5.44e+07	1.07	y	1.28	27:59	0.963	0.959	0.969	55.1711
	PCB-29	4.47e+07	1.08	y	1.08	28:15	0.972	0.967	0.977	53.7440
	PCB-26	4.99e+07	1.09	y	1.21	28:28	0.979	0.974	0.984	53.6246
	PCB-25	5.46e+07	1.09	y	1.26	28:37	0.985	0.979	0.989	56.1301
	PCB-31	5.35e+07	1.06	y	1.28	28:59	0.997	0.992	1.002	54.0330
	PCB-28	7.16e+07	1.09	y	1.71	29:04	1.000	0.995	1.005	54.2756
	PCB-20/21/33	1.41e+08	1.07	y	1.08	29:42	1.022	1.017	1.027	168.751
	PCB-22	5.07e+07	1.06	y	1.21	30:08	1.037	1.032	1.042	54.3984
	PCB-36	4.37e+07	1.07	y	1.14	30:45	0.933	0.928	0.938	52.3510
	PCB-39	4.34e+07	1.07	y	1.12	31:14	0.948	0.943	0.953	53.3094
	PCB-38	4.33e+07	1.07	y	1.20	32:00	0.971	0.966	0.976	49.4301
	PCB-35	5.01e+07	1.07	y	1.23	32:31	0.987	0.982	0.992	55.7127
	PCB-37	4.78e+07	1.08	y	1.23	32:57	1.000	0.995	1.005	53.2390
	PCB-54	3.46e+07	0.78	y	1.10	27:58	1.001	0.996	1.006	50.0266
	PCB-50	2.81e+07	0.77	y	0.88	29:08	1.042	1.037	1.047	50.8730
	PCB-53	2.83e+07	0.76	y	1.06	29:46	0.946	0.942	0.952	50.9438
	PCB-51	2.57e+07	0.76	y	0.99	30:07	0.957	0.952	0.962	49.7183
	PCB-45	2.30e+07	0.78	y	0.86	30:33	0.971	0.966	0.976	50.9773
	PCB-46	2.25e+07	0.77	y	0.85	31:02	0.986	0.981	0.991	51.1100

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-52/69	6.97e+07	0.76	y	1.28	31:31	1.001	0.996	1.006	104.265
	PCB-73	3.24e+07	0.77	y	1.35	31:38	1.005	1.000	1.010	45.8638
	PCB-43/49	5.17e+07	0.78	y	0.99	31:48	1.010	1.005	1.015	99.5463
	PCB-47	2.73e+07	0.75	y	1.06	31:60	1.001	0.996	1.006	47.9433
	PCB-48/75	7.06e+07	0.76	y	1.23	32:07	1.004	0.999	1.009	106.755
	PCB-65	3.48e+07	0.76	y	1.22	32:23	1.013	1.008	1.018	52.7763
	PCB-62	3.40e+07	0.77	y	1.22	32:30	1.016	1.011	1.021	51.6427
	PCB-44	2.45e+07	0.80	y	0.86	32:48	1.025	1.021	1.031	52.7941
	PCB-42/59	6.41e+07	0.77	y	1.14	33:01	1.033	1.028	1.038	104.617
	PCB-41/64/71/72	1.34e+08	0.78	y	1.21	33:37	1.051	1.046	1.056	205.623
	PCB-68	3.73e+07	0.78	y	1.35	33:52	1.059	1.054	1.064	51.4396
	PCB-40	2.05e+07	0.76	y	0.70	34:05	1.066	1.061	1.071	54.2717
	PCB-57	3.39e+07	0.78	y	0.98	34:27	0.970	0.965	0.975	51.2063
	PCB-67	3.68e+07	0.76	y	1.11	34:45	0.979	0.974	0.984	49.1597
	PCB-58	3.31e+07	0.79	y	0.93	34:52	0.982	0.977	0.987	52.6748
	PCB-63	3.23e+07	0.77	y	0.95	35:01	0.986	0.982	0.992	50.1790
	PCB-74	4.14e+07	0.79	y	1.24	35:19	0.995	0.990	1.000	49.2341
	PCB-61/70	6.73e+07	0.79	y	0.95	35:29	1.000	0.995	1.005	104.334
	PCB-76/66	7.13e+07	0.76	y	1.04	35:42	1.006	1.001	1.011	100.794
	PCB-80	4.27e+07	0.78	y	1.19	35:56	1.001	0.996	1.006	51.6676
	PCB-55	3.78e+07	0.77	y	1.04	36:16	1.009	1.005	1.015	52.3161
	PCB-56/60	7.26e+07	0.77	y	1.01	36:45	1.023	1.019	1.029	103.724
	PCB-79	3.84e+07	0.80	y	1.08	37:49	1.053	1.048	1.058	51.3632
	PCB-78	3.95e+07	0.77	y	1.27	38:31	0.987	0.982	0.992	49.4519
	PCB-81	4.18e+07	0.76	y	1.33	39:03	1.000	0.995	1.005	49.9321
	PCB-77	3.59e+07	0.80	y	1.10	39:38	1.000	0.995	1.005	51.4536
	PCB-104	2.56e+07	1.62	y	1.18	32:39	1.001	0.996	1.006	53.0238
	PCB-96	2.41e+07	1.61	y	1.14	33:55	1.039	1.034	1.044	51.8946
	PCB-103	2.06e+07	1.60	y	0.96	34:27	1.056	1.050	1.060	52.7405
	PCB-100	2.04e+07	1.62	y	0.94	34:48	1.066	1.061	1.071	53.4401
	PCB-94	1.65e+07	1.62	y	1.06	35:17	0.986	0.980	0.990	51.5714
	PCB-95/98/102	5.79e+07	1.58	y	1.22	35:46	0.999	0.995	1.005	156.535
	PCB-93	1.46e+07	1.67	y	0.84	35:54	1.003	0.997	1.007	57.3905
	PCB-88/91	3.93e+07	1.61	y	1.12	36:11	1.011	1.005	1.015	116.593
	PCB-121	2.35e+07	1.63	y	1.62	36:18	1.014	1.009	1.019	48.2118
	PCB-84/92	3.52e+07	1.62	y	1.05	37:07	0.990	0.985	0.995	105.086
	PCB-89	1.90e+07	1.62	y	1.13	37:18	0.995	0.991	1.001	52.4369

RL: MONO, TRI - DECA: ~

RL: DI : ~

Integrations by Analyst: DMS

Date: 2/9/15

Reviewed by Analyst:

Date: 2/16/15

Client ID: PCB CS3 14K1102 Filename: 150205E1 S:1 Acq: 5-FEB-15 09:00:21 ConCal: ST150205E1-1

Lab ID: ST150205E1-1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
	PCB-90/101	3.69e+07	1.58 y	1.10	37:29	1.000	0.995	1.005	104.641
	PCB-113	2.27e+07	1.56 y	1.41	37:43	1.006	1.002	1.012	50.1899
	PCB-99	2.43e+07	1.61 y	1.34	37:49	1.009	1.004	1.014	56.8193
	PCB-119	2.36e+07	1.59 y	1.53	38:18	0.987	0.982	0.992	51.7068
	PCB-108/112	3.97e+07	1.62 y	1.28	38:27	0.991	0.986	0.996	104.172
	PCB-83	2.28e+07	1.59 y	1.52	38:37	0.996	0.990	1.000	50.4141
	PCB-97	1.79e+07	1.64 y	1.18	38:48	1.000	0.995	1.005	50.8246
	PCB-86	1.47e+07	1.60 y	0.84	38:56	1.004	0.999	1.009	58.5206
	B-87/117/125	7.11e+07	1.59 y	1.55	39:04	1.007	1.002	1.012	153.889
	PCB-111/115	5.08e+07	1.59 y	1.63	39:14	1.012	1.006	1.016	104.326
	PCB-85/116	3.83e+07	1.60 y	1.30	39:22	1.015	1.010	1.020	98.5982
	PCB-120	2.52e+07	1.60 y	1.68	39:36	1.021	1.016	1.026	50.4761
	PCB-110	2.41e+07	1.60 y	1.56	39:44	1.024	1.020	1.030	51.9829
	PCB-82	1.54e+07	1.60 y	0.76	40:23	0.977	0.971	0.981	53.0463
	PCB-124	2.85e+07	1.58 y	1.47	41:02	0.992	0.988	0.998	50.6700
	PCB-107/109	5.27e+07	1.62 y	1.32	41:11	0.996	0.991	1.001	104.269
	PCB-123	2.29e+07	1.60 y	1.17	41:22	1.000	0.996	1.006	51.4287
-	PCB-106/118	4.91e+07	1.61 y	1.17	41:34	1.001	0.996	1.006	104.202
-	PCB-114	3.44e+07	1.64 y	1.30	42:13	1.000	0.995	1.005	52.0806
	PCB-122	2.94e+07	1.62 y	1.12	42:21	1.004	0.999	1.009	51.6241
	PCB-105	3.37e+07	1.63 y	1.30	43:04	1.000	0.995	1.005	52.6346
	PCB-127	3.72e+07	1.64 y	1.33	43:25	1.001	0.996	1.006	52.4037
	PCB-126	3.10e+07	1.64 y	1.18	45:19	1.000	0.995	1.005	53.8807
	PCB-155	1.68e+07	1.28 y	1.11	37:03	1.001	0.966	1.006	51.5308
	PCB-150	1.55e+07	1.32 y	1.00	38:19	1.035	1.030	1.040	53.1322
	PCB-152	1.67e+07	1.29 y	1.12	38:47	1.048	1.043	1.053	51.2995
	PCB-145	1.82e+07	1.32 y	1.20	39:14	1.060	1.055	1.065	51.9305
	PCB-136	1.88e+07	1.29 y	1.18	39:33	1.068	1.064	1.074	54.6295
	PCB-148	1.09e+07	1.28 y	0.74	39:39	1.071	1.066	1.076	50.2157
	PCB-154	1.35e+07	1.22 y	0.86	40:09	1.084	1.080	1.090	53.9837
	PCB-151	1.19e+07	1.31 y	0.75	40:48	1.102	1.097	1.107	54.4510
	PCB-135	1.20e+07	1.28 y	0.79	41:00	1.107	1.103	1.113	51.6169
	PCB-144	1.31e+07	1.31 y	0.76	41:07	1.110	1.105	1.117	58.7374
	PCB-147	1.29e+07	1.29 y	0.82	41:15	1.114	1.109	1.121	53.6820
	PCB-139/149	2.39e+07	1.28 y	0.76	41:31	1.121	1.116	1.128	107.126
-	PCB-140	1.18e+07	1.27 y	0.72	41:42	1.126	1.121	1.133	55.8053
-	PCB-134/143	4.02e+07	1.23 y	0.92	42:08	0.975	0.970	0.980	98.5009

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-133/142	3.57e+07	1.24 y	0.82	42:26	0.982	0.977	0.987	98.1263
PCB-131	1.93e+07	1.22 y	0.91	42:35	0.985	0.981	0.991	47.8661
PCB-146/165	5.29e+07	1.24 y	1.25	42:49	0.991	0.986	0.996	95.3967
PCB-132/161	4.69e+07	1.23 y	1.10	43:04	0.997	0.992	1.002	95.4059
PCB-153	2.68e+07	1.23 y	1.25	43:13	1.000	0.995	1.005	48.2582
PCB-168	3.13e+07	1.24 y	1.45	43:26	1.005	1.001	1.011	48.5037
PCB-141	2.13e+07	1.25 y	1.09	43:58	1.000	0.995	1.005	47.8793
PCB-137	2.20e+07	1.22 y	1.06	44:21	1.009	1.004	1.014	50.5202
PCB-130	1.87e+07	1.26 y	0.96	44:27	1.011	1.006	1.016	47.2947
PCB-138/163/164	7.86e+07	1.21 y	1.29	44:50	1.001	0.996	1.006	142.029
PCB-158/160	5.62e+07	1.22 y	1.34	45:04	1.006	1.001	1.011	97.8285
PCB-129	1.80e+07	1.20 y	0.85	45:19	1.012	1.007	1.017	49.2584
PCB-166	2.79e+07	1.23 y	1.19	45:46	0.993	0.988	0.998	47.6964
PCB-159	2.62e+07	1.21 y	1.11	46:05	1.000	0.996	1.006	47.6284
PCB-128/162	4.89e+07	1.20 y	1.05	46:23	1.006	1.002	1.012	94.4989
PCB-167	3.12e+07	1.22 y	1.20	46:47	1.000	0.995	1.005	49.1441
PCB-156	2.89e+07	1.25 y	1.14	48:05	1.000	0.996	1.006	49.2321
PCB-157	2.96e+07	1.22 y	1.16	48:21	1.000	0.995	1.005	48.3285
PCB-169	2.71e+07	1.24 y	1.12	50:27	1.000	0.995	1.005	46.6119
PCB-188	2.71e+07	1.07 y	1.58	42:52	1.001	0.996	1.006	50.0023
PCB-184	2.81e+07	1.07 y	1.63	43:19	1.011	1.006	1.016	50.2856
PCB-179	2.20e+07	1.06 y	1.30	44:05	1.029	1.024	1.034	49.3979
PCB-176	2.45e+07	1.06 y	1.48	44:33	1.040	1.035	1.045	48.4187
PCB-186	2.47e+07	1.07 y	1.45	45:10	1.054	1.050	1.060	49.6794
PCB-178	1.76e+07	1.06 y	1.03	45:40	1.066	1.061	1.071	49.7302
PCB-175	1.81e+07	1.05 y	1.01	46:01	1.074	1.069	1.079	52.2202
PCB-182/187	4.24e+07	1.05 y	1.25	46:11	1.078	1.073	1.083	98.9352
PCB-183	2.02e+07	1.07 y	1.21	46:30	1.085	1.081	1.091	48.9502
PCB-185	2.31e+07	1.07 y	1.80	47:10	0.956	0.951	0.961	48.6170
PCB-174	1.79e+07	1.06 y	1.38	47:31	0.963	0.958	0.968	49.2123
PCB-181	1.86e+07	1.06 y	1.38	47:38	0.965	0.960	0.970	51.1364
PCB-177	1.69e+07	1.04 y	1.26	47:48	0.969	0.963	0.973	50.8177
PCB-171	2.08e+07	1.05 y	1.58	48:06	0.975	0.970	0.980	49.7763
PCB-173	1.48e+07	1.05 y	1.11	48:31	0.983	0.978	0.988	50.3930
PCB-172	2.16e+07	1.09 y	1.63	48:58	0.992	0.987	0.997	50.0622
PCB-192	2.34e+07	1.06 y	1.74	49:10	0.996	0.991	1.001	50.8289
PCB-180	1.76e+07	1.08 y	1.34	49:22	1.000	0.995	1.005	49.6723

Integrations by Analyst: DMS

RL: MONO, TRI - DECA: ——————

Date: 2/9/15

Client ID: PCB CS3 14K1102 Filename: 150205E1 S:1 Acq: 5-FEB-15 09:00:21 ConCal: ST150205E1-1

Lab ID: ST150205E1-1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-193	2.20e+07	1.07	y	1.72	49:34	1.004	0.999	1.009	48.6547
	PCB-191	2.18e+07	1.07	y	1.69	49:48	1.009	1.004	1.014	48.7165
	PCB-170	1.71e+07	1.04	y	1.60	50:48	1.000	0.995	1.005	50.8836
	PCB-190	2.29e+07	1.08	y	2.21	50:58	1.004	0.998	1.008	49.3122
	PCB-189	2.10e+07	1.03	y	1.55	52:15	1.000	0.995	1.005	48.8242
	PCB-202	1.60e+07	0.92	y	1.08	48:17	1.000	0.995	1.005	49.4290
	PCB-201	1.72e+07	0.90	y	1.15	48:47	1.011	1.005	1.015	50.1592
	PCB-204	1.64e+07	0.92	y	1.14	48:56	1.014	1.008	1.018	48.2257
	PCB-197	1.59e+07	0.88	y	1.07	49:15	1.020	1.015	1.025	49.6186
	PCB-200	1.58e+07	0.89	y	1.06	50:05	1.038	1.032	1.044	49.6900
	PCB-198	1.18e+07	0.89	y	0.76	51:22	1.064	1.059	1.069	52.1377
	PCB-199	1.18e+07	0.89	y	0.80	51:22	1.064	1.061	1.071	49.3709
-	PCB-196/203	2.42e+07	0.90	y	0.80	51:44	1.072	1.066	1.076	101.349
-	PCB-195	1.91e+07	0.91	y	1.23	52:53	0.984	0.979	0.989	47.2263
	PCB-194	1.93e+07	0.91	y	1.21	53:45	1.000	0.995	1.005	48.2965
	PCB-205	2.48e+07	0.94	y	1.54	54:02	1.006	1.001	1.011	48.8254
	PCB-208	1.97e+07	1.35	y	0.93	53:01	1.000	0.995	1.005	50.7741
	PCB-207	2.37e+07	1.35	y	1.08	53:19	1.006	1.001	1.011	52.4942
	PCB-206	1.46e+07	1.34	y	1.02	55:26	1.000	0.995	1.005	50.4673
	PCB-209	1.75e+07	1.18	y	1.17	56:45	1.000	0.995	1.005	51.3623

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	1.59e+08	2.98	y	16:09	1.27	130.954	
Total Di-PCB	1.17e+09	1.65	y	20:07	1.21	1190.36	
Total Tri-PCB	2.74e+08	1.05	y	24:13	1.10	391.024	
Total Tri-PCB	8.03e+08	1.06	y	27:54	1.21	875.983	Sum:1267.01
Total Tetra-PCB	1.40e+09	0.78	y	27:58	1.09	2166.52	
Total Penta-PCB	8.79e+08	1.62	y	32:39	1.18	2153.05	
Total Penta-PCB	1.77e+08	1.64	y	42:13	1.25	281.155	Sum:2434.21
Total Hexa-PCB	1.96e+08	1.28	y	37:03	0.90	748.140	
Total Hexa-PCB	7.01e+08	1.23	y	42:08	1.11	1375.78	Sum:2123.92
Total Hepta-PCB	5.09e+08	1.07	y	42:52	1.42	1206.54	
Total Octa-PCB	1.29e+08	0.92	y	48:17	0.96	438.782	
Total Octa-PCB	6.52e+07	0.91	y	52:53	1.33	148.762	Sum:587.544
Total Nona-PCB	5.86e+07	1.35	y	53:01	1.01	155.489	
Total Deca-PCB	1.75e+07	1.18	y	56:45	1.17	51.3623	

Total PCB Conc:11226.9989390

RL: MONO, TRI - DECA: ——

Integrations by Analyst: DMS

Date: 2/9/15

Client ID: PCB CS3 14K1102 Filename: 150205E1 S:1 Acq: 5-FEB-15 09:00:21 ConCal: ST150205E1-1

Lab ID: ST150205E1-1 GC Column ID: ZB-1 ICal: pcbvg8-6-23-14 wt/vol:1.0000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	9.28e+07	3.27 y	0.87	16:08	0.622	0.629	0.635	116	116
13C-PCB-3	9.71e+07	3.23 y	0.91	18:44	0.723	0.725	0.733	117	117
13C-PCB-4	5.59e+07	1.60 y	0.59	20:03	0.774	0.775	0.783	104	104
13C-PCB-9	8.35e+07	1.60 y	0.90	21:50	0.843	0.842	0.850	102	102
13C-PCB-11	8.57e+07	1.57 y	0.94	25:13	0.973	0.968	0.978	100	100
13C-PCB-19	4.95e+07	1.08 y	0.53	24:12	0.934	0.930	0.940	102	102
13C-PCB-28	7.71e+07	1.07 y	0.93	29:04	1.004	0.999	1.009	97.4	97.4
13C-PCB-32	7.12e+07	1.08 y	0.80	27:06	1.046	1.040	1.050	97.9	97.9
13C-PCB-37	7.30e+07	1.06 y	0.84	32:57	1.138	1.131	1.143	102	102
13C-PCB-47	5.39e+07	0.80 y	0.81	31:59	0.871	0.866	0.874	96.2	96.2
13C-PCB-52	5.22e+07	0.80 y	0.77	31:28	0.857	0.853	0.861	98.1	98.1
13C-PCB-54	6.27e+07	0.81 y	0.97	27:57	0.761	0.758	0.766	93.8	93.8
13C-PCB-70	6.77e+07	0.79 y	1.00	35:30	0.966	0.961	0.971	98.4	98.4
13C-PCB-77	6.33e+07	0.81 y	0.94	39:37	1.078	1.073	1.083	97.5	97.5
13C-PCB-80	6.93e+07	0.82 y	1.03	35:55	0.978	0.972	0.982	97.4	97.4
13C-PCB-81	6.29e+07	0.80 y	0.92	39:02	1.062	1.057	1.067	99.0	99.0
13C-PCB-95	3.02e+07	1.60 y	0.74	35:48	0.913	0.908	0.918	97.6	97.6
13C-PCB-97	2.98e+07	1.62 y	0.70	38:47	0.989	0.984	0.994	101	101
13C-PCB-101	3.20e+07	1.64 y	0.78	37:29	0.956	0.951	0.961	97.8	97.8
13C-PCB-104	4.08e+07	1.61 y	1.00	32:38	0.832	0.828	0.836	97.5	97.5
13C-PCB-105	4.94e+07	1.57 y	1.37	43:04	0.929	0.924	0.934	90.5	90.5
13C-PCB-114	5.09e+07	1.62 y	1.36	42:12	0.910	0.905	0.915	93.4	93.4
13C-PCB-118	4.02e+07	1.57 y	0.96	41:32	1.059	1.054	1.064	100	100
13C-PCB-123	3.82e+07	1.63 y	0.89	41:21	1.054	1.050	1.060	102	102
13C-PCB-126	4.88e+07	1.58 y	1.31	45:18	0.977	0.972	0.982	93.3	93.3
13C-PCB-127	5.32e+07	1.63 y	1.47	43:24	0.936	0.931	0.941	90.4	90.4
13C-PCB-138	4.28e+07	1.30 y	1.10	44:48	0.966	0.961	0.971	97.5	97.5
13C-PCB-141	4.10e+07	1.28 y	1.07	43:57	0.948	0.943	0.953	95.5	95.5
13C-PCB-153	4.45e+07	1.27 y	1.15	43:13	0.932	0.927	0.937	97.1	97.1
13C-PCB-155	2.92e+07	1.31 y	0.84	37:01	0.944	0.939	0.949	83.3	83.3
13C-PCB-156	5.18e+07	1.28 y	1.30	48:04	1.037	1.032	1.042	99.9	99.9
13C-PCB-157	5.27e+07	1.28 y	1.36	48:20	1.043	1.038	1.048	97.1	97.1
13C-PCB-159	4.94e+07	1.30 y	1.25	46:05	0.994	0.989	0.999	99.1	99.1
13C-PCB-167	5.30e+07	1.28 y	1.35	46:46	1.009	1.004	1.014	98.1	98.1
13C-PCB-169	5.20e+07	1.30 y	1.29	50:26	1.088	1.083	1.093	101	101
13C-PCB-170	2.10e+07	0.47 y	0.54	50:47	1.095	1.089	1.101	97.0	97.0
13C-PCB-180	2.64e+07	0.46 y	0.68	49:21	1.064	1.060	1.070	96.6	96.6
13C-PCB-188	3.42e+07	0.43 y	0.92	42:50	0.924	0.919	0.929	93.3	93.3
13C-PCB-189	2.78e+07	0.46 y	0.72	52:14	1.127	1.120	1.132	96.9	96.9
13C-PCB-194	3.30e+07	0.89 y	0.80	53:44	0.995	0.990	1.000	100	100
13C-PCB-202	2.98e+07	0.94 y	0.84	48:16	1.041	1.036	1.046	89.1	89.1
13C-PCB-206	2.82e+07	0.80 y	0.65	55:25	1.026	1.021	1.031	105	105
13C-PCB-208	4.16e+07	0.77 y	1.08	53:00	0.981	0.976	0.986	93.2	93.2
13C-PCB-209	2.91e+07	1.23 y	0.61	56:44	1.050	1.045	1.055	115	115

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	6.93e+07	0.80 y	1.02	37:48	1.029	1.023	1.034	99.0	99.0
13C-PCB-178	2.32e+07	0.48 y	0.61	45:38	0.984	0.979	0.990	94.7	94.7

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	6.93e+07	0.80 y	1.10	37:48	0.968	0.964	0.974	99.9	99.9
13C-PCB-178	2.32e+07	0.48 y	0.90	45:38	0.925	0.920	0.930	97.9	97.9

RS

Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	9.13e+07	1.59 y	1.00	25:55	100
13C-PCB-31	8.48e+07	1.07 y	1.00	28:57	100
13C-PCB-60	6.89e+07	0.80 y	1.00	36:44	100
13C-PCB-111	4.18e+07	1.64 y	1.00	39:13	100
13C-PCB-128	4.00e+07	1.25 y	1.00	46:22	100
13C-PCB-205	4.13e+07	0.93 y	1.00	54:01	100

* = OK within METHOD limits.
DMS 2/9/15

Analyst: DMS

Date: 2/9/15

Vista Analytical Laboratory - Injection Log Run file: 150205e1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
150205E1	1	ST150205E1-1	dms	5-FEB-15	09:00:21	ST150205E1-1	NA
150205E1	2	B5A0115-BS1	dms	5-FEB-15	10:04:19	ST150205E1-1	NA
150205E1	3	SOLVENT BLANK	dms	5-FEB-15	11:08:18	ST150205E1-1	NA
150205E1	4	B5A0115-BLK1	dms	5-FEB-15	12:12:16	ST150205E1-1	NA
150205E1	5	1400970-02@10X	dms	5-FEB-15	13:16:16	ST150205E1-1	NA
150205E1	6	1400970-03@10X	dms	5-FEB-15	14:20:13	ST150205E1-1	NA
150205E1	7	1400970-04@10X	dms	5-FEB-15	15:24:13	ST150205E1-1	NA
150205E1	8	1500108-01@10X	dms	5-FEB-15	16:28:11	ST150205E1-1	NA
150205E1	9	1500108-02@10X	dms	5-FEB-15	17:32:09	ST150205E1-1	NA
150205E1	10	1500108-03@10X	dms	5-FEB-15	18:36:06	ST150205E1-1	NA
150205E1	11	1500116-01@10X	dms	5-FEB-15	19:40:04	ST150205E1-1	NA
150205E1	12	SOLVENT BLANK	dms	5-FEB-15	20:44:03	ST150205E1-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST

Vista Analytical Laboratory

Beg. Calibration ID: ST150205E1-1 End Calibration ID: NA

	Beg.	End
Ion abundance within QC limits?	✓	NA
Concentration within range?	✓	
First and last eluters present?	✓	
Retention Times within criteria?	DMS 2/9/15	
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	✓	
Forms signed and dated?	✓	
Correct ICAL referenced?	✓	
Run Log:		
-Data file matches Conc Cal ID?	✓	
-Correct instrument listed?	✓	✓
-Samples within 12-hour clock?	(y)	n

	Beg.	End
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	✓	✓ *
TCDD/TCDF valleys < 25%?	NA	NA
Peaks integrated correctly?	✓	
Manual integrations included?	✓	
8280 CS1 Ending Standard		
-Ratios within limits		
-S/N > 2.5:1		
-CS1 within 12-hour clock		✓

Comments: * LOST 5105 connection only 1ST FUNCTION RES. check PRINTED. DMS 2/9/15

Reviewed by: _____ 2/10/15
Initials & Date

* *Ending standard criteria applicable to 8290 only.*

INITIAL CALIBRATION

Initial Calibration RRF Summary (ICAL) Vista Analytical Laboratory
Run: 141016D1 Analyte: Cal: 1613VG7-1-7-15 Inst. ID. VG-7

Data filename: 141016D1

			Samp# 1	Samp# 3	Samp# 4	Samp# 5	Samp# 6	Samp# 1
			10	0.25	0.50	2.0	40	300
Name	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6
2,3,7,8-TCDD	1.17	9.14 %	1.11	1.36	1.22	1.06	1.16	1.12
1,2,3,7,8-PeCDD	0.91	4.03 %	0.93	0.94	0.93	0.84	0.93	0.89
1,2,3,4,7,8-HxCDD	1.08	5.35 %	1.08	1.18	1.07	1.00	1.08	1.07
1,2,3,6,7,8-HxCDD	1.06	5.61 %	1.06	1.06	1.06	0.96	1.13	1.12
1,2,3,7,8,9-HxCDD	0.93	4.13 %	0.92	0.98	0.95	0.86	0.93	0.95
1,2,3,4,6,7,8-HpCDD	1.10	3.57 %	1.12	1.04	1.14	1.07	1.14	1.11
OCDD	0.95	4.86 %	0.97	0.96	0.97	0.85	0.97	0.97
2,3,7,8-TCDF	1.07	6.82 %	1.00	1.16	1.15	0.99	1.08	1.04
1,2,3,7,8-PeCDF	1.07	4.51 %	1.10	1.13	1.05	1.00	1.11	1.06
2,3,4,7,8-PeCDF	1.03	3.55 %	1.05	1.04	1.06	0.96	1.07	1.02
1,2,3,4,7,8-HxCDF	1.38	3.14 %	1.40	1.42	1.37	1.31	1.42	1.39
1,2,3,6,7,8-HxCDF	1.26	5.25 %	1.26	1.34	1.29	1.14	1.26	1.27
2,3,4,6,7,8-HxCDF	1.29	3.82 %	1.28	1.30	1.33	1.20	1.34	1.29
1,2,3,7,8,9-HxCDF	1.19	3.32 %	1.16	1.25	1.18	1.13	1.20	1.19
1,2,3,4,6,7,8-HpCDF	1.61	4.02 %	1.59	1.67	1.66	1.49	1.64	1.61
1,2,3,4,7,8,9-HpCDF	1.53	4.55 %	1.54	1.58	1.55	1.39	1.53	1.57
OCDF	1.10	3.96 %	1.11	1.09	1.13	1.01	1.13	1.11
13C-2,3,7,8-TCDD	1.06	3.81 %	1.05	1.00	1.07	1.04	1.10	1.10
13C-1,2,3,7,8-PeCDD	1.18	9.13 %	1.06	1.09	1.23	1.23	1.34	1.11
13C-1,2,3,4,7,8-HxCDD	0.72	5.98 %	0.70	0.69	0.70	0.70	0.73	0.80
13C-1,2,3,6,7,8-HxCDD	0.74	6.30 %	0.72	0.71	0.71	0.71	0.73	0.83
13C-1,2,3,7,8,9-HxCDD	0.85	6.05 %	0.83	0.81	0.83	0.83	0.86	0.95
13C-1,2,3,4,6,7,8-HpCDD	0.65	10.75 %	0.63	0.61	0.61	0.62	0.66	0.79
13C-OCDD	0.76	5.80 %	0.70	0.73	0.76	0.77	0.79	0.82
13C-2,3,7,8-TCDF	0.92	2.26 %	0.93	0.89	0.91	0.91	0.94	0.93
13C-1,2,3,7,8-PeCDF	0.92	6.20 %	0.86	0.87	0.90	0.95	1.01	0.94
13C-2,3,4,7,8-PeCDF	0.93	5.50 %	0.89	0.89	0.91	0.96	1.02	0.92
13C-1,2,3,4,7,8-HxCDF	0.98	5.30 %	0.92	0.94	0.96	0.98	1.01	1.07
13C-1,2,3,6,7,8-HxCDF	1.08	5.13 %	1.07	1.00	1.05	1.09	1.12	1.16
13C-2,3,4,6,7,8-HxCDF	1.03	4.15 %	0.97	1.00	1.02	1.01	1.04	1.10
13C-1,2,3,7,8,9-HxCDF	0.86	7.80 %	0.84	0.82	0.82	0.83	0.87	0.99
13C-1,2,3,4,6,7,8-HpCDF	0.72	9.95 %	0.70	0.69	0.67	0.69	0.72	0.86
13C-1,2,3,4,7,8,9-HpCDF	0.70	6.18 %	0.65	0.69	0.67	0.67	0.74	0.76
13C-OCDF	0.85	5.23 %	0.82	0.80	0.83	0.85	0.88	0.92
37Cl-2,3,7,8-TCDD	1.12	13.99 %	1.22	1.08	1.03	1.24	1.27	0.86
13C-1,2,3,4-TCDD	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-1,2,3,4-TCDF	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-1,2,3,4,6,9-HxCDF	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

ms 1/9/15

1/9/15

1/12/15

Filename: 141016D1 S: 1 Acquired: 16-OCT-14 11:05:57
Run: 141016D1 Analyte: Cal: 1613VG7-1-7-15 Results:
Sample text: ST141016D1-1 1613 CS3 14I1102

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	10.00	2.08e+06	0.73 y	26:60	-	1.11
2	Unk	1,2,3,7,8-PeCDD	50.00	8.78e+06	0.61 y	31:30	-	0.93
3	Unk	1,2,3,4,7,8-HxCDD	50.00	7.82e+06	1.26 y	34:50	-	1.08
4	Unk	1,2,3,6,7,8-HxCDD	50.00	7.94e+06	1.25 y	34:57	-	1.06
5	Unk	1,2,3,7,8,9-HxCDD	50.00	7.97e+06	1.24 y	35:15	-	0.92
6	Unk	1,2,3,4,6,7,8-HpCDD	50.00	7.29e+06	1.04 y	38:42	-	1.12
7	Unk	OCDD	100.00	1.40e+07	0.89 y	42:02	-	0.97
8	Unk	2,3,7,8-TCDF	10.00	2.78e+06	0.80 y	26:13	-	1.00
9	Unk	1,2,3,7,8-PeCDF	50.00	1.40e+07	1.59 y	30:20	-	1.10
10	Unk	2,3,4,7,8-PeCDF	50.00	1.38e+07	1.59 y	31:14	-	1.05
11	Unk	1,2,3,4,7,8-HxCDF	50.00	1.34e+07	1.29 y	33:56	-	1.40
12	Unk	1,2,3,6,7,8-HxCDF	50.00	1.40e+07	1.29 y	34:04	-	1.26
13	Unk	2,3,4,6,7,8-HxCDF	50.00	1.29e+07	1.31 y	34:40	-	1.28
14	Unk	1,2,3,7,8,9-HxCDF	50.00	1.01e+07	1.27 y	35:39	-	1.16
15	Unk	1,2,3,4,6,7,8-HpCDF	50.00	1.16e+07	1.08 y	37:30	-	1.59
16	Unk	1,2,3,4,7,8,9-HpCDF	50.00	1.04e+07	1.07 y	39:16	-	1.54
17	Unk	OCDF	100.00	1.88e+07	0.91 y	42:16	-	1.11
36	IS	13C-2,3,7,8-TCDD	100.00	1.87e+07	0.79 y	26:58	-	1.05
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.90e+07	0.63 y	31:29	-	1.06
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.44e+07	1.25 y	34:49	-	0.70
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.50e+07	1.25 y	34:56	-	0.72
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.72e+07	1.23 y	35:14	-	0.83
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.30e+07	1.07 y	38:42	-	0.63
42	IS	13C-OCDD	200.00	2.89e+07	0.89 y	42:02	-	0.70
43	IS	13C-2,3,7,8-TCDF	100.00	2.77e+07	0.74 y	26:12	-	0.93
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.54e+07	1.55 y	30:19	-	0.86
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.63e+07	1.61 y	31:13	-	0.89
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.92e+07	0.51 y	33:55	-	0.92
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	2.23e+07	0.50 y	34:03	-	1.07
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	2.02e+07	0.52 y	34:39	-	0.97
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.73e+07	0.51 y	35:38	-	0.84
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.46e+07	0.43 y	37:29	-	0.70
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.35e+07	0.45 y	39:15	-	0.65
52	IS	13C-OCDF	200.00	3.39e+07	0.92 y	42:15	-	0.82
53	C/Up	37Cl-2,3,7,8-TCDD	10.00	2.18e+06		26:59	-	1.22
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.79e+07	0.80 y	26:24	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.97e+07	0.78 y	24:58	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	2.08e+07	0.51 y	34:21	-	1.00

Filename: 141016D1 S: 3 Acquired: 16-OCT-14 12:42:43
Run: 141016D1 Analyte: Cal: Results:
Sample text: ST141016D1-2 1613 CS0 14I1819

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.25	5.01e+04	0.71 y	27:03	-	1.36
2	Unk	1,2,3,7,8-PeCDD	1.25	1.89e+05	0.58 y	31:32	-	0.94
3	Unk	1,2,3,4,7,8-HxCDD	1.25	1.80e+05	1.38 y	34:52	-	1.18
4	Unk	1,2,3,6,7,8-HxCDD	1.25	1.66e+05	1.38 y	34:59	-	1.06
5	Unk	1,2,3,7,8,9-HxCDD	1.25	1.76e+05	1.42 y	35:17	-	0.98
6	Unk	1,2,3,4,6,7,8-HpCDD	1.25	1.40e+05	0.92 y	38:44	-	1.04
7	Unk	OCDD	2.50	3.13e+05	0.92 y	42:04	-	0.96
8	Unk	2,3,7,8-TCDF	0.25	6.52e+04	0.82 y	26:17	-	1.16
9	Unk	1,2,3,7,8-PeCDF	1.25	3.11e+05	1.49 y	30:22	-	1.13
10	Unk	2,3,4,7,8-PeCDF	1.25	2.91e+05	1.54 y	31:15	-	1.04
11	Unk	1,2,3,4,7,8-HxCDF	1.25	2.95e+05	1.36 y	33:58	-	1.42
12	Unk	1,2,3,6,7,8-HxCDF	1.25	2.95e+05	1.26 y	34:06	-	1.34
13	Unk	2,3,4,6,7,8-HxCDF	1.25	2.89e+05	1.31 y	34:43	-	1.30
14	Unk	1,2,3,7,8,9-HxCDF	1.25	2.25e+05	1.36 y	35:41	-	1.25
15	Unk	1,2,3,4,6,7,8-HpCDF	1.25	2.54e+05	1.14 y	37:32	-	1.67
16	Unk	1,2,3,4,7,8,9-HpCDF	1.25	2.39e+05	1.08 y	39:18	-	1.58
17	Unk	OCDF	2.50	3.84e+05	0.91 y	42:18	-	1.09
36	IS	13C-2,3,7,8-TCDD	100.00	1.47e+07	0.79 y	27:02	-	1.00
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.61e+07	0.64 y	31:32	-	1.09
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.22e+07	1.24 y	34:51	-	0.69
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.25e+07	1.31 y	34:58	-	0.71
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.44e+07	1.29 y	35:16	-	0.81
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.07e+07	1.03 y	38:43	-	0.61
42	IS	13C-OCDD	200.00	2.60e+07	0.89 y	42:03	-	0.73
43	IS	13C-2,3,7,8-TCDF	100.00	2.24e+07	0.75 y	26:16	-	0.89
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.20e+07	1.59 y	30:21	-	0.87
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.24e+07	1.61 y	31:15	-	0.89
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.66e+07	0.52 y	33:57	-	0.94
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	1.77e+07	0.51 y	34:05	-	1.00
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.77e+07	0.51 y	34:42	-	1.00
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.45e+07	0.52 y	35:40	-	0.82
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.22e+07	0.44 y	37:31	-	0.69
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.21e+07	0.43 y	39:17	-	0.69
52	IS	13C-OCDF	200.00	2.81e+07	0.92 y	42:17	-	0.80
53	C/Up	37Cl-2,3,7,8-TCDD	0.25	4.00e+04		27:03	-	1.08
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.48e+07	0.80 y	26:28	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.52e+07	0.78 y	25:03	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	1.77e+07	0.53 y	34:23	-	1.00

Filename: 141016D1 S: 4 Acquired: 16-OCT-14 13:31:08
Run: 141016D1 Analyte: Cal: Results:
Sample text: ST141016D1-3 1613 CS1 14I1820

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.50	9.47e+04	0.71 y	27:03	-	1.22
2	Unk	1,2,3,7,8-PeCDD	2.50	4.17e+05	0.58 y	31:32	-	0.93
3	Unk	1,2,3,4,7,8-HxCDD	2.50	3.52e+05	1.23 y	34:52	-	1.07
4	Unk	1,2,3,6,7,8-HxCDD	2.50	3.56e+05	1.22 y	34:59	-	1.06
5	Unk	1,2,3,7,8,9-HxCDD	2.50	3.72e+05	1.18 y	35:17	-	0.95
6	Unk	1,2,3,4,6,7,8-HpCDD	2.50	3.28e+05	1.04 y	38:44	-	1.14
7	Unk	OCDD	5.00	7.00e+05	0.91 y	42:03	-	0.97
8	Unk	2,3,7,8-TCDF	0.50	1.35e+05	0.76 y	26:17	-	1.15
9	Unk	1,2,3,7,8-PeCDF	2.50	6.14e+05	1.75 y	30:22	-	1.05
10	Unk	2,3,4,7,8-PeCDF	2.50	6.26e+05	1.44 y	31:15	-	1.06
11	Unk	1,2,3,4,7,8-HxCDF	2.50	6.24e+05	1.23 y	33:58	-	1.37
12	Unk	1,2,3,6,7,8-HxCDF	2.50	6.42e+05	1.32 y	34:06	-	1.29
13	Unk	2,3,4,6,7,8-HxCDF	2.50	6.41e+05	1.24 y	34:42	-	1.33
14	Unk	1,2,3,7,8,9-HxCDF	2.50	4.56e+05	1.22 y	35:40	-	1.18
15	Unk	1,2,3,4,6,7,8-HpCDF	2.50	5.24e+05	1.07 y	37:32	-	1.66
16	Unk	1,2,3,4,7,8,9-HpCDF	2.50	4.91e+05	1.14 y	39:17	-	1.55
17	Unk	OCDF	5.00	8.91e+05	0.93 y	42:17	-	1.13
36	IS	13C-2,3,7,8-TCDD	100.00	1.56e+07	0.78 y	27:02	-	1.07
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.79e+07	0.63 y	31:31	-	1.23
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.32e+07	1.27 y	34:51	-	0.70
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.35e+07	1.26 y	34:58	-	0.71
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.56e+07	1.27 y	35:16	-	0.83
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.15e+07	1.05 y	38:43	-	0.61
42	IS	13C-OCDD	200.00	2.89e+07	0.89 y	42:03	-	0.76
43	IS	13C-2,3,7,8-TCDF	100.00	2.36e+07	0.78 y	26:16	-	0.91
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.34e+07	1.58 y	30:21	-	0.90
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.37e+07	1.54 y	31:14	-	0.91
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.82e+07	0.52 y	33:57	-	0.96
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	1.99e+07	0.52 y	34:05	-	1.05
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.93e+07	0.52 y	34:41	-	1.02
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.55e+07	0.53 y	35:40	-	0.82
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.26e+07	0.43 y	37:31	-	0.67
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.27e+07	0.44 y	39:16	-	0.67
52	IS	13C-OCDF	200.00	3.15e+07	0.89 y	42:17	-	0.83
53	C/Up	37Cl-2,3,7,8-TCDD	0.50	7.54e+04		27:03	-	1.03
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.46e+07	0.79 y	26:28	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.60e+07	0.77 y	25:03	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	1.89e+07	0.52 y	34:22	-	1.00

Filename: 141016D1 S: 5 Acquired: 16-OCT-14 14:19:34
Run: 141016D1 Analyte: Cal: Results:
Sample text: ST141016D1-4 1613 CS2 14I1821

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	2.00	3.13e+05	0.82 y	27:03	-	1.06
2	Unk	1,2,3,7,8-PeCDD	10.00	1.47e+06	0.59 y	31:32	-	0.84
3	Unk	1,2,3,4,7,8-HxCDD	10.00	1.26e+06	1.28 y	34:52	-	1.00
4	Unk	1,2,3,6,7,8-HxCDD	10.00	1.24e+06	1.26 y	34:59	-	0.96
5	Unk	1,2,3,7,8,9-HxCDD	10.00	1.30e+06	1.28 y	35:17	-	0.86
6	Unk	1,2,3,4,6,7,8-HpCDD	10.00	1.21e+06	1.04 y	38:44	-	1.07
7	Unk	OCDD	20.00	2.38e+06	0.87 y	42:03	-	0.85
8	Unk	2,3,7,8-TCDF	2.00	4.47e+05	0.78 y	26:17	-	0.99
9	Unk	1,2,3,7,8-PeCDF	10.00	2.35e+06	1.55 y	30:22	-	1.00
10	Unk	2,3,4,7,8-PeCDF	10.00	2.32e+06	1.57 y	31:15	-	0.96
11	Unk	1,2,3,4,7,8-HxCDF	10.00	2.31e+06	1.29 y	33:58	-	1.31
12	Unk	1,2,3,6,7,8-HxCDF	10.00	2.24e+06	1.28 y	34:06	-	1.14
13	Unk	2,3,4,6,7,8-HxCDF	10.00	2.19e+06	1.30 y	34:42	-	1.20
14	Unk	1,2,3,7,8,9-HxCDF	10.00	1.69e+06	1.33 y	35:41	-	1.13
15	Unk	1,2,3,4,6,7,8-HpCDF	10.00	1.86e+06	1.10 y	37:32	-	1.49
16	Unk	1,2,3,4,7,8,9-HpCDF	10.00	1.69e+06	1.09 y	39:17	-	1.39
17	Unk	OCDF	20.00	3.11e+06	0.93 y	42:17	-	1.01
36	IS	13C-2,3,7,8-TCDD	100.00	1.47e+07	0.79 y	27:02	-	1.04
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.74e+07	0.63 y	31:31	-	1.23
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.26e+07	1.28 y	34:51	-	0.70
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.29e+07	1.24 y	34:58	-	0.71
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.51e+07	1.23 y	35:16	-	0.83
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.13e+07	1.05 y	38:43	-	0.62
42	IS	13C-OCDD	200.00	2.79e+07	0.88 y	42:03	-	0.77
43	IS	13C-2,3,7,8-TCDF	100.00	2.26e+07	0.77 y	26:16	-	0.91
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.36e+07	1.54 y	30:21	-	0.95
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.40e+07	1.57 y	31:14	-	0.96
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.77e+07	0.50 y	33:57	-	0.98
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	1.97e+07	0.51 y	34:05	-	1.09
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.83e+07	0.52 y	34:41	-	1.01
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.50e+07	0.52 y	35:40	-	0.83
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.24e+07	0.43 y	37:31	-	0.69
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.22e+07	0.43 y	39:16	-	0.67
52	IS	13C-OCDF	200.00	3.07e+07	0.90 y	42:17	-	0.85
53	C/Up	37Cl-2,3,7,8-TCDD	2.00	3.51e+05		27:03	-	1.24
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.41e+07	0.80 y	26:28	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.49e+07	0.77 y	25:03	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	1.80e+07	0.52 y	34:22	-	1.00

Filename: 141016D1 S: 6 Acquired: 16-OCT-14 15:08:00
Run: 141016D1 Analyte: Cal: Results:
Sample text: ST141016D1-5 1613 CS4 14I1822

	Typ	Name	Amount	Resp	RA		RT	RF	RRF
1	Unk	2,3,7,8-TCDD	40.00	6.36e+06	0.79	y	27:03	-	1.16
2	Unk	1,2,3,7,8-PeCDD	200.00	3.08e+07	0.61	y	31:32	-	0.93
3	Unk	1,2,3,4,7,8-HxCDD	200.00	2.57e+07	1.25	y	34:52	-	1.08
4	Unk	1,2,3,6,7,8-HxCDD	200.00	2.66e+07	1.26	y	34:59	-	1.13
5	Unk	1,2,3,7,8,9-HxCDD	200.00	2.59e+07	1.24	y	35:17	-	0.93
6	Unk	1,2,3,4,6,7,8-HpCDD	200.00	2.46e+07	1.04	y	38:44	-	1.14
7	Unk	OCDD	400.00	5.00e+07	0.89	y	42:03	-	0.97
8	Unk	2,3,7,8-TCDF	40.00	8.92e+06	0.77	y	26:17	-	1.08
9	Unk	1,2,3,7,8-PeCDF	200.00	4.90e+07	1.58	y	30:22	-	1.11
10	Unk	2,3,4,7,8-PeCDF	200.00	4.76e+07	1.60	y	31:15	-	1.07
11	Unk	1,2,3,4,7,8-HxCDF	200.00	4.66e+07	1.28	y	33:58	-	1.42
12	Unk	1,2,3,6,7,8-HxCDF	200.00	4.56e+07	1.28	y	34:06	-	1.26
13	Unk	2,3,4,6,7,8-HxCDF	200.00	4.54e+07	1.26	y	34:42	-	1.34
14	Unk	1,2,3,7,8,9-HxCDF	200.00	3.40e+07	1.28	y	35:40	-	1.20
15	Unk	1,2,3,4,6,7,8-HpCDF	200.00	3.84e+07	1.09	y	37:32	-	1.64
16	Unk	1,2,3,4,7,8,9-HpCDF	200.00	3.69e+07	1.08	y	39:17	-	1.53
17	Unk	OCDF	400.00	6.50e+07	0.92	y	42:18	-	1.13
36	IS	13C-2,3,7,8-TCDD	100.00	1.37e+07	0.81	y	27:02	-	1.10
37	IS	13C-1,2,3,7,8-PeCDD	100.00	1.66e+07	0.63	y	31:31	-	1.34
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.19e+07	1.25	y	34:51	-	0.73
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.18e+07	1.26	y	34:58	-	0.73
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	1.40e+07	1.24	y	35:16	-	0.86
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.08e+07	1.07	y	38:43	-	0.66
42	IS	13C-OCDD	200.00	2.58e+07	0.89	y	42:03	-	0.79
43	IS	13C-2,3,7,8-TCDF	100.00	2.07e+07	0.77	y	26:16	-	0.94
44	IS	13C-1,2,3,7,8-PeCDF	100.00	2.21e+07	1.61	y	30:21	-	1.01
45	IS	13C-2,3,4,7,8-PeCDF	100.00	2.23e+07	1.57	y	31:14	-	1.02
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	1.64e+07	0.51	y	33:57	-	1.01
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	1.82e+07	0.50	y	34:05	-	1.12
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	1.69e+07	0.51	y	34:41	-	1.04
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	1.41e+07	0.52	y	35:40	-	0.87
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	1.17e+07	0.45	y	37:31	-	0.72
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.20e+07	0.44	y	39:16	-	0.74
52	IS	13C-OCDF	200.00	2.87e+07	0.89	y	42:17	-	0.88
53	C/Up	37Cl-2,3,7,8-TCDD	40.00	6.31e+06			27:03	-	1.27
54	RS/RT	13C-1,2,3,4-TCDD	100.00	1.24e+07	0.82	y	26:28	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	2.19e+07	0.79	y	25:03	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	1.63e+07	0.51	y	34:22	-	1.00

Filename: 150107D1 S: 1 Acquired: 7-JAN-15 10:43:31
Run: 141016D1 Analyte: Cal: 1613VG7-1-7-15 Results:
Sample text: ST150107D1-1 1613 CS5 15A0502

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	300.00	9.22e+07	0.77 y	26:59	-	1.12
2	Unk	1,2,3,7,8-PeCDD	1500.00	3.69e+08	0.62 y	31:40	-	0.89
3	Unk	1,2,3,4,7,8-HxCDD	1500.00	3.48e+08	1.26 y	34:59	-	1.07
4	Unk	1,2,3,6,7,8-HxCDD	1500.00	3.80e+08	1.25 y	35:06	-	1.12
5	Unk	1,2,3,7,8,9-HxCDD	1500.00	3.67e+08	1.25 y	35:23	-	0.95
6	Unk	1,2,3,4,6,7,8-HpCDD	1500.00	3.56e+08	1.05 y	38:54	-	1.11
7	Unk	OCDD	3000.00	6.47e+08	0.90 y	42:09	-	0.97
8	Unk	2,3,7,8-TCDF	300.00	1.19e+08	0.78 y	26:09	-	1.04
9	Unk	1,2,3,7,8-PeCDF	1500.00	6.12e+08	1.59 y	30:27	-	1.06
10	Unk	2,3,4,7,8-PeCDF	1500.00	5.74e+08	1.56 y	31:23	-	1.02
11	Unk	1,2,3,4,7,8-HxCDF	1500.00	6.02e+08	1.28 y	34:06	-	1.39
12	Unk	1,2,3,6,7,8-HxCDF	1500.00	5.99e+08	1.28 y	34:14	-	1.27
13	Unk	2,3,4,6,7,8-HxCDF	1500.00	5.77e+08	1.29 y	34:50	-	1.29
14	Unk	1,2,3,7,8,9-HxCDF	1500.00	4.82e+08	1.30 y	35:46	-	1.19
15	Unk	1,2,3,4,6,7,8-HpCDF	1500.00	5.67e+08	1.07 y	37:34	-	1.61
16	Unk	1,2,3,4,7,8,9-HpCDF	1500.00	4.84e+08	1.07 y	39:27	-	1.57
17	Unk	OCDF	3000.00	8.27e+08	0.92 y	42:22	-	1.11
36	IS	13C-2,3,7,8-TCDD	100.00	2.74e+07	0.80 y	26:57	-	1.10
37	IS	13C-1,2,3,7,8-PeCDD	100.00	2.75e+07	0.62 y	31:39	-	1.11
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	2.18e+07	1.22 y	34:58	-	0.80
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.25e+07	1.30 y	35:05	-	0.83
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	2.59e+07	1.25 y	35:22	-	0.95
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.15e+07	1.07 y	38:53	-	0.79
42	IS	13C-OCDD	200.00	4.45e+07	0.91 y	42:08	-	0.82
43	IS	13C-2,3,7,8-TCDF	100.00	3.80e+07	0.75 y	26:08	-	0.93
44	IS	13C-1,2,3,7,8-PeCDF	100.00	3.84e+07	1.58 y	30:27	-	0.94
45	IS	13C-2,3,4,7,8-PeCDF	100.00	3.74e+07	1.62 y	31:22	-	0.92
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	2.90e+07	0.52 y	34:05	-	1.07
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	3.15e+07	0.52 y	34:13	-	1.16
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	2.98e+07	0.51 y	34:49	-	1.10
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	2.69e+07	0.51 y	35:45	-	0.99
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.34e+07	0.44 y	37:34	-	0.86
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	2.06e+07	0.45 y	39:26	-	0.76
52	IS	13C-OCDF	200.00	4.97e+07	0.90 y	42:22	-	0.92
53	C/Up	37Cl-2,3,7,8-TCDD	300.00	6.41e+07		26:59	-	0.86
54	RS/RT	13C-1,2,3,4-TCDD	100.00	2.48e+07	0.80 y	26:21	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	4.08e+07	0.78 y	24:48	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	2.71e+07	0.51 y	34:30	-	1.00

Run: 141016D1 Analyte: Cal: 1613VG7-1-7-15 Inst. ID. VG-7

Data filename: 141016D1			Samp# 1	Samp# 3	Samp# 4	Samp# 5	Samp# 6	Samp# 1
			10	0.25	0.50	2.0	40	300
Name	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6
Total Tetra-Dioxins	1.17	9.14 %	1.11	1.36	1.22	1.06	1.16	1.12
TCDD EMPC	1.17	9.14 %	1.11	1.36	1.22	1.06	1.16	1.12
Total Penta-Dioxins	0.91	4.03 %	0.93	0.94	0.93	0.84	0.93	0.89
PeCDD EMPC	0.91	4.03 %	0.93	0.94	0.93	0.84	0.93	0.89
Total Hexa-Dioxins	1.02	4.32 %	1.02	1.07	1.02	0.94	1.04	1.04
HxCDD EMPC	1.02	4.32 %	1.02	1.07	1.02	0.94	1.04	1.04
Total Hepta-Dioxins	1.10	3.57 %	1.12	1.04	1.14	1.07	1.14	1.11
HpCDD EMPC	1.10	3.57 %	1.12	1.04	1.14	1.07	1.14	1.11
Total Tetra-Furans	1.07	6.82 %	1.00	1.16	1.15	0.99	1.08	1.04
TCDF EMPC	1.07	6.82 %	1.00	1.16	1.15	0.99	1.08	1.04
1st Func. Penta-Furans	1.05	3.80 %	1.07	1.08	1.05	0.98	1.09	1.04
1st Func. PeCDF EMPC	1.05	3.80 %	1.07	1.08	1.05	0.98	1.09	1.04
Total Penta-Furans	1.05	3.80 %	1.07	1.08	1.05	0.98	1.09	1.04
PeCDF EMPC	1.05	3.80 %	1.07	1.08	1.05	0.98	1.09	1.04
Total Hexa-Furans	1.28	3.62 %	1.28	1.33	1.30	1.19	1.31	1.29
HxCDF EMPC	1.28	3.62 %	1.28	1.33	1.30	1.19	1.31	1.29
Total Hepta-Furans	1.57	4.17 %	1.57	1.62	1.60	1.44	1.59	1.59
HpCDF EMPC	1.57	4.17 %	1.57	1.62	1.60	1.44	1.59	1.59

Run: 141016D1 Analyte: Cal: 1613VG7-1-7-15 Inst. ID. VG-7

Data filename: 141016D1

Name	RRT Limits Lower	Upper	Samp# 1 10 RRT#1	Samp# 3 0.25 RRT#2	Samp# 4 0.50 RRT#3	Samp# 5 2.0 RRT#4	Samp# 6 40 RRT#5	Samp# 1 300 RRT#6
2,3,7,8-TCDD	0.999	-1.002	1.001	1.001	1.001	1.001	1.001	1.001
1,2,3,7,8-PeCDD	0.999	-1.002	1.000	1.000	1.000	1.000	1.000	1.000
1,2,3,4,7,8-HxCDD	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
1,2,3,6,7,8-HxCDD	0.998	-1.004	1.001	1.000	1.000	1.000	1.000	1.001
1,2,3,7,8,9-HxCDD	0.998	-1.004	1.000	1.000	1.000	1.000	1.000	1.001
1,2,3,4,6,7,8-HpCDD	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
OCDD	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
2,3,7,8-TCDF	0.999	-1.003	1.001	1.001	1.001	1.001	1.001	1.001
1,2,3,7,8-PeCDF	0.999	-1.002	1.000	1.001	1.000	1.000	1.000	1.000
2,3,4,7,8-PeCDF	0.999	-1.002	1.000	1.000	1.000	1.000	1.000	1.000
1,2,3,4,7,8-HxCDF	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
1,2,3,6,7,8-HxCDF	0.997	-1.005	1.001	1.000	1.001	1.001	1.001	1.000
2,3,4,6,7,8-HxCDF	0.999	-1.001	1.001	1.000	1.000	1.001	1.001	1.000
1,2,3,7,8,9-HxCDF	0.999	-1.001	1.000	1.000	1.000	1.001	1.000	1.000
1,2,3,4,6,7,8-HpCDF	0.999	-1.001	1.000	1.001	1.000	1.000	1.000	1.000
1,2,3,4,7,8,9-HpCDF	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
OCDF	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
13C-2,3,7,8-TCDD	0.976	-1.043	1.021	1.021	1.021	1.021	1.021	1.023
13C-1,2,3,7,8-PeCDD	1.000	-1.567	1.192	1.191	1.191	1.191	1.191	1.201
13C-1,2,3,4,7,8-HxCDD	1.002	-1.026	1.014	1.014	1.014	1.014	1.014	1.014
13C-1,2,3,6,7,8-HxCDD	1.007	-1.029	1.017	1.017	1.017	1.017	1.017	1.017
13C-1,2,3,7,8,9-HxCDD	1.014	-1.038	1.026	1.026	1.026	1.026	1.026	1.025
13C-1,2,3,4,6,7,8-HpCDD	1.117	-1.141	1.127	1.126	1.126	1.126	1.126	1.127
13C-OCDD	1.085	-1.365	1.224	1.223	1.223	1.223	1.223	1.222
13C-2,3,7,8-TCDF	0.923	-1.103	0.992	0.992	0.992	0.992	0.992	0.992
13C-1,2,3,7,8-PeCDF	1.000	-1.425	1.148	1.147	1.147	1.147	1.147	1.155
13C-2,3,4,7,8-PeCDF	1.011	-1.526	1.182	1.181	1.180	1.180	1.180	1.190
13C-1,2,3,4,7,8-HxCDF	0.975	-1.001	0.988	0.988	0.988	0.988	0.988	0.988
13C-1,2,3,6,7,8-HxCDF	0.979	-1.005	0.991	0.991	0.992	0.992	0.992	0.992
13C-2,3,4,6,7,8-HxCDF	1.001	-1.020	1.009	1.009	1.009	1.009	1.009	1.009
13C-1,2,3,7,8,9-HxCDF	1.002	-1.072	1.037	1.037	1.038	1.038	1.037	1.037
13C-1,2,3,4,6,7,8-HpCDF	1.069	-1.111	1.091	1.091	1.091	1.091	1.091	1.089
13C-1,2,3,4,7,8,9-HpCDF	1.098	-1.192	1.143	1.142	1.143	1.143	1.143	1.143
13C-OCDF	1.091	-1.371	1.230	1.230	1.230	1.230	1.230	1.228
37Cl-2,3,7,8-TCDD	0.989	-1.052	1.022	1.022	1.022	1.022	1.022	1.024
13C-1,2,3,4-TCDD	0.000	-0.000	*	*	*	*	*	*
13C-1,2,3,4-TCDF	0.000	-0.000	*	*	*	*	*	*
13C-1,2,3,4,6,9-HxCDF	0.000	-0.000	*	*	*	*	*	*

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.: CCAL ID: ST141016D1-1

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141016D1 S#1 Analysis Date: 16-OCT-14 Time: 11:05:57

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.73	0.65-0.89	y	9.45	7.8 - 12.9 8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M/M+2	0.61	0.54-0.72	y	50.9	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	50.2	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	49.6	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	49.6	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	50.8	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	102	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	y	9.38	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	51.3	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	50.7	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	50.6	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	50.2	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.31	1.05-1.43	y	49.6	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.27	1.05-1.43	y	49.1	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.08	0.88-1.20	y	49.4	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.07	0.88-1.20	y	50.4	43.0 - 58.0
OCDF	M+2/M+4	0.91	0.76-1.02	y	101	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: [signature]

Date: 1/8/15

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141016D1 S#1 Analysis Date: 16-OCT-14 Time: 11:05:57

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	98.9	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.63	0.54-0.72	y	90.0	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	96.6	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	98.4	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	97.3	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	95.7	72.0 - 138.0
13C-OCDD	M/M+2	0.89	0.76-1.02	y	182	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.74	0.65-0.89	y	102	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	92.8	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	95.2	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	94.1	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	99.0	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	94.9	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	97.1	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.43	0.37-0.51	y	97.2	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.45	0.37-0.51	y	93.4	77.0 - 129.0
13C-OCDF	M+2/M+4	0.92	0.76-1.02	y	192	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					10.9	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: MJ

Date: 1/8/15

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.: CCAL ID: ST141016D1-1

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141016D1 S#1 Analysis Date: 16-OCT-14 Time: 11:05:57

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.73	0.65-0.89	y	9.45	8.00 - 12.0
1,2,3,7,8-PeCDD	M/M+2	0.61	0.54-0.72	y	50.9	40.0 - 60.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	50.2	40.0 - 60.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	49.6	40.0 - 60.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	49.6	40.0 - 60.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	50.8	40.0 - 60.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	102	80.0 - 120
2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	y	9.38	8.00 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	51.3	40.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	50.7	40.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	50.6	40.0 - 60.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	50.2	40.0 - 60.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.31	1.05-1.43	y	49.6	40.0 - 60.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.27	1.05-1.43	y	49.1	40.0 - 60.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.08	0.88-1.20	y	49.4	40.0 - 60.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.07	0.88-1.20	y	50.4	40.0 - 60.0
OCDF	M+2/M+4	0.91	0.76-1.02	y	101	80.0 - 120

Analyst: MJ

Date: 1/9/15

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141016D1 S#1 Analysis Date: 16-OCT-14 Time: 11:05:57

LABELED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	98.9	70.0 - 130
13C-1,2,3,7,8-PeCDD	M/M+2	0.63	0.54-0.72	y	90.0	70.0 - 130
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	96.6	70.0 - 130
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	98.4	70.0 - 130
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	97.3	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	95.7	70.0 - 130
13C-OCDD	M+2/M+4	0.89	0.76-1.02	y	182	140 - 260
13C-2,3,7,8-TCDF	M/M+2	0.74	0.65-0.89	y	102	70.0 - 130
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	92.8	70.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	95.2	70.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	94.1	70.0 - 130
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	99.0	70.0 - 130
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	94.9	70.0 - 130
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	97.1	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.43	0.37-0.51	y	97.2	70.0 - 130
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.45	0.37-0.51	y	93.4	70.0 - 130
13C-OCDF	M+2/M+4	0.92	0.76-1.02	y	192	140 - 260
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD					10.9	7.00 - 13.0

Analyst: MJ

Date: 1/9/15

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141016D1 S#1 Analysis Date: 16-OCT-14 Time: 11:05:57

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.000	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.021	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.192	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.992	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.148	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.182	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613. 10/94

Analyst: VM

Date: 1/8/15

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 141016D1 S#1 Analysis Date: 16-OCT-14 Time: 11:05:57

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.000	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.000	0.998-1.004
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.000	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.988	0.975-1.001
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.991	0.979-1.005
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.009	1.001-1.020
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.037	1.002-1.072
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.014	1.002-1.026
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.017	1.007-1.029
13C-1,2,3,7,8,9-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.026	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.091	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.143	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.127	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.224	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.230	1.091-1.371

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

Analyst: (M)

Date: 1/9/15

Client ID: 1613 CS3 14I1102 Filename: 141016D1 S:1 Acq:16-OCT-14 11:05:57 ConCal: NA
Lab ID: ST141016D1-1 GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.000 EndCAL: NA

	Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL
	2,3,7,8-TCDD	2.08e+06	0.73 y	1.17	26:60	1.001	9.4477		*	2.5	*
	1,2,3,7,8-PeCDD	8.78e+06	0.61 y	0.91	31:30	1.000	50.922		*	2.5	*
	1,2,3,4,7,8-HxCDD	7.82e+06	1.26 y	1.08	34:50	1.000	50.237		*	2.5	*
	1,2,3,6,7,8-HxCDD	7.94e+06	1.25 y	1.06	34:57	1.001	49.601		*	2.5	*
	1,2,3,7,8,9-HxCDD	7.97e+06	1.24 y	0.93	35:15	1.000	49.631		*	2.5	*
	1,2,3,4,6,7,8-HpCDD	7.29e+06	1.04 y	1.10	38:42	1.000	50.805		*	2.5	*
	OCDD	1.40e+07	0.89 y	0.95	42:02	1.000	102.06		*	2.5	*
	2,3,7,8-TCDF	2.78e+06	0.80 y	1.07	26:13	1.001	9.3791		*	2.5	*
	1,2,3,7,8-PeCDF	1.40e+07	1.59 y	1.07	30:20	1.000	51.276		*	2.5	*
	2,3,4,7,8-PeCDF	1.38e+07	1.59 y	1.03	31:14	1.000	50.741		*	2.5	*
	1,2,3,4,7,8-HxCDF	1.34e+07	1.29 y	1.38	33:56	1.000	50.629		*	2.5	*
	1,2,3,6,7,8-HxCDF	1.40e+07	1.29 y	1.26	34:04	1.001	50.176		*	2.5	*
	2,3,4,6,7,8-HxCDF	1.29e+07	1.31 y	1.29	34:40	1.001	49.592		*	2.5	*
	1,2,3,7,8,9-HxCDF	1.01e+07	1.27 y	1.19	35:39	1.000	49.090		*	2.5	*
	1,2,3,4,6,7,8-HpCDF	1.16e+07	1.08 y	1.61	37:30	1.000	49.399		*	2.5	*
	1,2,3,4,7,8,9-HpCDF	1.04e+07	1.07 y	1.53	39:16	1.000	50.426		*	2.5	*
	OCDF	1.88e+07	0.91 y	1.10	42:16	1.000	100.89		*	2.5	*
IS	13C-2,3,7,8-TCDD	1.87e+07	0.79 y	1.06	26:58	1.021	98.865				
IS	13C-1,2,3,7,8-PeCDD	1.90e+07	0.63 y	1.18	31:29	1.192	90.040				
IS	13C-1,2,3,4,7,8-HxCDD	1.44e+07	1.25 y	0.72	34:49	1.014	96.577				
IS	13C-1,2,3,6,7,8-HxCDD	1.50e+07	1.25 y	0.74	34:56	1.017	98.426				
IS	13C-1,2,3,7,8,9-HxCDD	1.72e+07	1.23 y	0.85	35:14	1.026	97.305				
IS	13C-1,2,3,4,6,7,8-HpCDD	1.30e+07	1.07 y	0.65	38:42	1.127	95.724				
IS	13C-OCDD	2.89e+07	0.89 y	0.76	42:02	1.224	182.02				
IS	13C-2,3,7,8-TCDF	2.77e+07	0.74 y	0.92	26:12	0.992	101.61				
IS	13C-1,2,3,7,8-PeCDF	2.54e+07	1.55 y	0.92	30:19	1.148	92.843				
IS	13C-2,3,4,7,8-PeCDF	2.63e+07	1.61 y	0.93	31:13	1.182	95.246				
IS	13C-1,2,3,4,7,8-HxCDF	1.92e+07	0.51 y	0.98	33:55	0.988	94.089				
IS	13C-1,2,3,6,7,8-HxCDF	2.23e+07	0.50 y	1.08	34:03	0.991	99.047				
IS	13C-2,3,4,6,7,8-HxCDF	2.02e+07	0.52 y	1.03	34:39	1.009	94.921				
IS	13C-1,2,3,7,8,9-HxCDF	1.73e+07	0.51 y	0.86	35:38	1.037	97.069				
IS	13C-1,2,3,4,6,7,8-HpCDF	1.46e+07	0.43 y	0.72	37:29	1.091	97.247				
IS	13C-1,2,3,4,7,8,9-HpCDF	1.35e+07	0.45 y	0.70	39:15	1.143	93.423				
IS	13C-OCDF	3.39e+07	0.92 y	0.85	42:15	1.230	192.38				
C/Up	37Cl-2,3,7,8-TCDD	2.18e+06		1.12	26:59	1.022	10.884				
RS/RT	13C-1,2,3,4-TCDD	1.79e+07	0.80 y	1.00	26:24	*	100.00				
RS	13C-1,2,3,4-TCDF	2.97e+07	0.78 y	1.00	24:58	*	100.00				
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.08e+07	0.51 y	1.00	34:21	*	100.00				

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	54.8	55.1		*	*
Total Penta-Dioxins	159	159		*	*
Total Hexa-Dioxins	194	195		*	*
Total Hepta-Dioxins	128	128		*	*
Total Tetra-Furans	30.0	30.3		*	*
Total Penta-Furans	209.92	210.51		*	*
Total Hexa-Furans	248	249		*	*
Total Hepta-Furans	102	102		*	*

	Rec	Qual
IS	98.9	
IS	90.0	
IS	96.6	
IS	98.4	
IS	97.3	
IS	95.7	
IS	91.0	
IS	102	
IS	92.8	
IS	95.2	
IS	94.1	
IS	99.0	
IS	94.9	
IS	97.1	
IS	97.2	
IS	93.4	
IS	96.2	
C/Up	2180	

Integrations by Analyst: MJ Date: 1/9/15

Reviewed by Analyst: CT Date: 1/12/15

Vista Analytical Laboratory - Injection Log Run file: 141016D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
141016D1	1	ST141016D1-1	MAS	16-OCT-14	11:05:57	ST141016D1-1	NA
141016D1	2	SOLVENT BLANK	MAS	16-OCT-14	11:54:17	ST141016D1-1	NA
141016D1	3	ST141016D1-2	MAS	16-OCT-14	12:42:43	ST141016D1-1	NA
141016D1	4	ST141016D1-3	MAS	16-OCT-14	13:31:08	ST141016D1-1	NA
141016D1	5	ST141016D1-4	MAS	16-OCT-14	14:19:34	ST141016D1-1	NA
141016D1	6	ST141016D1-5	MAS	16-OCT-14	15:08:00	ST141016D1-1	NA
141016D1	8	SOLVENT BLANK	MAS	16-OCT-14	16:44:52	ST141016D1-1	NA
141016D1	9	SS141016D1-1	MAS	16-OCT-14	17:33:17	ST141016D1-1	NA
150107D1	1	ST150107D1-1	MAS	7-JAN-15	10:43:31	ST141016D1-1	NA

Vista Analytical Laboratory VG-9

Dataset: C:\MassLynx\Default.pro\Results\141113F1\141113F1_CRV.qld

Last Altered: Friday, November 14, 2014 07:50:29 Pacific Standard Time
Printed: Friday, November 14, 2014 08:18:43 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 13 Nov 2014 15:04:53
Calibration: C:\MassLynx\Default.pro\Curvedb\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Compound name: 2,3,7,8-TCDF
Response Factor: 1.10023
RRF SD: 0.100726, Relative SD: 9.15499
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 141113F1_2	0.250	0.76	NO	17.52	2.58e3	9.20e5	0.255	1.12
2	2 141113F1_3	0.500	0.88	NO	17.54	5.25e3	1.05e6	0.455	1.00
3	3 141113F1_4	2.00	0.76	NO	17.52	2.24e4	1.16e6	1.76	0.968
4	4 141113F1_5	40.0	0.78	NO	17.52	5.36e5	1.16e6	41.8	1.15
5	5 141113F1_6	200	0.80	NO	17.52	3.07e6	1.24e6	226	1.24
6	6 141113F1_7	10.0	0.86	NO	17.55	1.30e5	1.16e6	10.2	1.12

CJ 11/14/14

11/14/14

Compound name: 13C-2,3,7,8-TCDF
Response Factor: 0.843843
RRF SD: 0.0230178, Relative SD: 2.72774
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 141113F1_2	100	0.79	NO	17.51	9.20e5	1.11e6	98.2	0.829
2	2 141113F1_3	100	0.79	NO	17.51	1.05e6	1.28e6	97.4	0.822
3	3 141113F1_4	100	0.79	NO	17.51	1.16e6	1.37e6	99.6	0.840
4	4 141113F1_5	100	0.80	NO	17.51	1.16e6	1.31e6	105	0.885
5	5 141113F1_6	100	0.81	NO	17.51	1.24e6	1.45e6	101	0.853
6	6 141113F1_7	100	0.81	NO	17.52	1.16e6	1.39e6	98.8	0.833

Vista Analytical Laboratory VG-9

Dataset: C:\MassLynx\Default.pro\Results\141113F1\141113F1_CRV.qld

Last Altered: Friday, November 14, 2014 07:50:29 Pacific Standard Time
Printed: Friday, November 14, 2014 08:18:43 Pacific Standard Time

Compound name: 13C-1,2,3,4-TCDF
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: RF

	#-Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 141113F1_2	100	0.81	NO	15.25	1.11e6	1.11e6	100	1.00
2	2 141113F1_3	100	0.81	NO	15.23	1.28e6	1.28e6	100	1.00
3	3 141113F1_4	100	0.80	NO	15.23	1.37e6	1.37e6	100	1.00
4	4 141113F1_5	100	0.80	NO	15.23	1.31e6	1.31e6	100	1.00
5	5 141113F1_6	100	0.82	NO	15.23	1.45e6	1.45e6	100	1.00
6	6 141113F1_7	100	0.81	NO	15.25	1.39e6	1.39e6	100	1.00

Compound name: 13C-1,2,3,4-TCDD
No Calibration
Response type: External Std, Area
Curve type: RF

	#-Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 141113F1_2	0.000	0.80	NO	16.00	7.79e5			0.000
2	2 141113F1_3	0.000	0.78	NO	16.00	9.07e5			0.000
3	3 141113F1_4	0.000	0.80	NO	16.00	9.36e5			0.000
4	4 141113F1_5	0.000	0.80	NO	16.00	9.46e5			0.000
5	5 141113F1_6	0.000	0.79	NO	16.00	1.03e6			0.000
6	6 141113F1_7	0.000	0.79	NO	16.00	9.83e5			0.000

Dataset: C:\MassLynx\Default.pro\Results\141113F1\141113F1_CRV.qld

Last Altered: Friday, November 14, 2014 07:50:29 Pacific Standard Time
Printed: Friday, November 14, 2014 08:16:25 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 13 Nov 2014 15:04:53
Calibration: C:\MassLynx\Default.pro\Curvedb\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Name: 141113F1_7, Date: 13-Nov-2014, Time: 17:16:30, ID: ST141113F1-6 1613 CS3 14I1102, Description: 1613 CS3 14I1102

	#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1	2,3,7,8-TCDF	1.30e5	0.86	NO	1.10	1.000	17.55	10.185	102	0.217
2	2	13C-2,3,7,8-TCDF	1.16e6	0.81	NO	0.844	1.000	17.52	98.766	98.8	0.302
3	3	13C-1,2,3,4-TCDF	1.39e6	0.81	NO	1.00	1.000	15.25	100.00	100	0.255
4	4	13C-1,2,3,4-TCDD	9.83e5	0.79	NO		1.000	16.00			

CG 11/14/14

Vista Analytical Laboratory VG-9

Dataset: Untitled

Last Altered: Friday, November 14, 2014 07:58:55 Pacific Standard Time
Printed: Friday, November 14, 2014 08:07:25 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 13 Nov 2014 15:04:53
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\11-13-TEST.cdb 14 Nov 2014 07:50:26

Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	141113F1_1	CP141113F1-1 DB-225 CPSM	13-Nov-14	14:06:21
2	141113F1_2	ST141113F1-1 1613 CS0 14I1819	13-Nov-14	14:37:32
3	141113F1_3	ST141113F1-2 1613 CS1 14I1820	13-Nov-14	15:09:19
4	141113F1_4	ST141113F1-3 1613 CS2 14I1821	13-Nov-14	15:41:06
5	141113F1_5	ST141113F1-4 1613 CS4 14I1822	13-Nov-14	16:12:54
6	141113F1_6	ST141113F1-5 1613 CS5 14I1823	13-Nov-14	16:44:42
7	141113F1_7	ST141113F1-6 1613 CS3 14I1102	13-Nov-14	17:16:30
8	141113F1_8	SOLVENT BLANK	13-Nov-14	17:48:17
9	141113F1_9	SS141113F1-1 1613 SSS 13J3107	13-Nov-14	18:20:05
10	141113F1_10	SOLVENT BLANK	13-Nov-14	18:53:47
11	141113F1_11	1400819-01RE1 DP-1 CF 0.93853	13-Nov-14	19:23:48
12	141113F1_12	1400819-02RE1 RP-4 CF 0.95774	13-Nov-14	19:55:36
13	141113F1_13	1400824-02RE1 Secondary Sludge CF 19.78	13-Nov-14	20:27:24
14	141113F1_14	1400785-01RE1 DU1SU2 CF 29.92	13-Nov-14	20:59:12
15	141113F1_15	1400785-02RE1 DU1SU4 CF 31.78	13-Nov-14	21:31:00
16	141113F1_16	1400789-01RE1 DU1SU5 CF 33.89	13-Nov-14	22:02:48
17	141113F1_17	1400789-02RE1 DU2SU17 CF 30.06	13-Nov-14	22:34:35
18	141113F1_18	1400789-03RE1 DU2SU9 CF 29.99	13-Nov-14	23:06:23
19	141113F1_19	1400789-04RE1 DU2SU10 CF 30.04	13-Nov-14	23:38:10
20	141113F1_20	SOLVENT BLANK	14-Nov-14	00:09:58
21	141113F1_21	1400798-01RE1 DU2SU19 CF 31.55	14-Nov-14	00:43:33
22	141113F1_22	1400798-02RE1 DU2SU28 CF 33.04	14-Nov-14	01:13:41
23	141113F1_23	1400798-03RE1 DU2SU36 CF 30.86	14-Nov-14	01:45:28
24	141113F1_24	1400798-04RE1 DU2SU30-1 CF 32.41	14-Nov-14	02:17:16
25	141113F1_25	1400798-05RE1 DU2SU30-2 CF 33.37	14-Nov-14	02:49:03
26	141113F1_26	1400798-06RE1 DU2SU30-3 CF 30.24	14-Nov-14	03:20:52
27	141113F1_27	SOLVENT BLANK	14-Nov-14	03:52:41
28	141113F1_28	SOLVENT BLANK	14-Nov-14	04:24:29
29	141113F1_29	SOLVENT BLANK	14-Nov-14	04:56:17

Dataset: C:\MassLynx\Default.pro\Results\141113F1\141113F1_9.qld

Last Altered: Friday, November 14, 2014 08:14:45 Pacific Standard Time
Printed: Friday, November 14, 2014 08:22:47 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 13 Nov 2014 15:04:53
Calibration: C:\MassLynx\Default.pro\Curvedb\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Name: 141113F1_9, Date: 13-Nov-2014, Time: 18:20:05, ID: SS141113F1-1 1613 SSS 13J3107, Description: 1613 SSS 13J3107

	#-Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.48e5	0.81	NO	1.10	1.000	17.54	8.9493	89.5	0.0832
2	2 13C-2,3,7,8-TCDF	1.51e6	0.81	NO	0.844	1.000	17.52	109.62	110	0.171
3	3 13C-1,2,3,4-TCDF	1.63e6	0.81	NO	1.00	1.000	15.25	100.00	100	0.145
4	4 13C-1,2,3,4-TCDD	1.29e6	0.78	NO		1.000	16.00			

11/14/14

Initial Calibration RRF Summary (ICAL) Vista Analytical Laboratory
Run: 140623E2 Analyte: PCBNEW Cal: PCBVG8-6-23-14 Inst. ID: VG 8

Data filename: 140623E2

Name	Mean RRF	%RSD	Samp# 1 0.25 RRF#1	Samp# 2 1.0 RRF#2	Samp# 3 2.5 RRF#3	Samp# 4 50 RRF#4	Samp# 5 400 RRF#5	Samp# 6 750 RRF#6
PCB-1	1.19	8.06 %	1.04	1.13	1.18	1.23	1.29	1.29
PCB-2	1.18	7.35 %	1.05	1.12	1.16	1.23	1.28	1.26
PCB-3	1.43	5.11 %	1.34	1.37	1.37	1.46	1.49	1.51
PCB-4/10	1.57	2.14 %	1.53	1.54	1.55	1.57	1.60	1.62
PCB-7/9	1.21	2.44 %	1.22	1.17	1.19	1.21	1.22	1.26
PCB-6	1.30	2.87 %	1.25	1.28	1.31	1.31	1.34	1.35
PCB-5/8	1.15	2.31 %	1.13	1.12	1.15	1.15	1.16	1.19
PCB-14	1.11	3.28 %	1.05	1.09	1.11	1.14	1.12	1.15
PCB-11	1.09	2.23 %	1.05	1.09	1.07	1.10	1.09	1.12
PCB-12/13	1.19	2.18 %	1.17	1.17	1.18	1.20	1.20	1.24
PCB-15	1.28	3.09 %	1.29	1.22	1.26	1.28	1.30	1.34
PCB-19	1.04	3.02 %	1.04	1.01	1.01	1.04	1.07	1.09
PCB-30	1.71	4.54 %	1.67	1.64	1.66	1.69	1.79	1.83
PCB-18	0.78	5.11 %	0.71	0.79	0.79	0.80	0.78	0.82
PCB-17	0.92	2.36 %	0.90	0.90	0.94	0.93	0.91	0.95
PCB-24/27	1.19	3.36 %	1.13	1.17	1.19	1.20	1.18	1.25
PCB-16/32	0.94	1.56 %	0.92	0.93	0.94	0.94	0.94	0.96
PCB-34	1.14	3.58 %	1.15	1.19	1.13	1.09	1.16	1.09
PCB-23	1.28	4.96 %	1.38	1.28	1.22	1.23	1.24	1.33
PCB-29	1.08	3.94 %	1.11	1.13	1.09	1.06	1.01	1.06
PCB-26	1.21	4.37 %	1.25	1.23	1.27	1.18	1.12	1.19
PCB-25	1.26	7.07 %	1.39	1.25	1.30	1.27	1.25	1.11
PCB-31	1.28	11.62 %	1.50	1.29	1.36	1.24	1.27	1.05
PCB-28	1.71	5.40 %	1.81	1.76	1.78	1.70	1.63	1.57
PCB-20/21/33	1.08	5.41 %	1.15	1.07	1.11	1.08	1.11	0.98
PCB-22	1.21	8.00 %	1.36	1.24	1.17	1.23	1.06	1.18
PCB-36	1.14	11.01 %	1.36	1.16	1.11	1.18	1.05	0.99
PCB-39	1.12	11.88 %	1.31	1.12	1.09	1.20	0.92	1.05
PCB-38	1.20	13.44 %	1.44	1.25	1.24	1.23	1.03	1.00
PCB-35	1.23	8.27 %	1.40	1.18	1.31	1.18	1.15	1.17
PCB-37	1.23	8.23 %	1.38	1.30	1.25	1.19	1.12	1.13
PCB-54	1.10	3.74 %	1.18	1.06	1.10	1.10	1.09	1.09
PCB-50	0.88	6.30 %	0.97	0.83	0.92	0.88	0.86	0.83
PCB-53	1.06	1.53 %	1.06	1.05	1.06	1.08	1.09	1.05
PCB-51	0.99	4.28 %	0.95	1.06	0.97	0.98	0.96	1.02
PCB-45	0.86	5.46 %	0.95	0.85	0.83	0.89	0.84	0.82
PCB-46	0.85	4.52 %	0.90	0.89	0.82	0.83	0.83	0.81
PCB-52/69	1.28	3.90 %	1.23	1.29	1.27	1.28	1.25	1.37
PCB-73	1.35	5.47 %	1.44	1.30	1.43	1.38	1.30	1.27
PCB-43/49	0.99	4.35 %	1.07	1.01	0.96	0.97	0.95	1.02
PCB-47	1.06	4.72 %	1.12	1.10	1.07	1.04	1.04	0.98

DMS 6/24/14

MS 6/25/14

PCB-48/75	1.23	5.03 %	1.34	1.24	1.21	1.17	1.17	1.24
PCB-65	1.22	5.52 %	1.22	1.30	1.29	1.23	1.12	1.19
PCB-62	1.22	11.22 %	1.47	1.10	1.25	1.09	1.22	1.19
PCB-44	0.86	9.00 %	1.00	0.90	0.84	0.80	0.79	0.83
PCB-42/59	1.14	4.85 %	1.20	1.19	1.08	1.08	1.11	1.17
PCB-41/64/71/72	1.21	4.49 %	1.24	1.25	1.16	1.13	1.19	1.26
PCB-68	1.35	3.60 %	1.42	1.35	1.32	1.29	1.31	1.38
PCB-40	0.70	2.83 %	0.69	0.73	0.70	0.68	0.69	0.71
PCB-57	0.98	1.87 %	0.97	0.96	1.00	0.99	0.96	0.99
PCB-67	1.11	4.07 %	1.19	1.11	1.11	1.09	1.09	1.05
PCB-58	0.93	3.04 %	0.90	0.95	0.94	0.93	0.88	0.96

PCB-63	0.95	8.80 %	1.12	0.95	0.91	0.93	0.88	0.92
PCB-74	1.24	4.15 %	1.34	1.21	1.25	1.20	1.23	1.23
PCB-61/70	0.95	2.14 %	0.96	0.96	0.98	0.95	0.92	0.94
PCB-76/66	1.04	3.20 %	1.11	1.04	1.04	1.03	1.03	1.02
PCB-80	1.19	2.93 %	1.13	1.22	1.22	1.22	1.18	1.18
PCB-55	1.04	3.47 %	1.00	0.99	1.07	1.08	1.05	1.06
PCB-56/60	1.01	3.48 %	1.01	1.06	1.05	1.00	0.97	0.98
PCB-79	1.08	3.24 %	1.12	1.07	1.13	1.07	1.04	1.06
PCB-78	1.27	5.24 %	1.40	1.26	1.27	1.25	1.20	1.24
PCB-81	1.33	5.94 %	1.49	1.32	1.29	1.29	1.27	1.33
PCB-77	1.10	4.03 %	1.19	1.07	1.11	1.08	1.07	1.09
PCB-104	1.18	2.54 %	1.13	1.18	1.20	1.20	1.19	1.21
PCB-96	1.14	2.81 %	1.10	1.15	1.11	1.13	1.16	1.19
PCB-103	0.96	4.05 %	0.99	0.93	0.92	0.93	0.95	1.02
PCB-100	0.94	4.52 %	0.97	0.90	0.89	0.92	0.95	1.00
PCB-94	1.06	5.71 %	1.17	1.08	1.03	1.02	1.00	1.05
PCB-95/98/102	1.22	0.35 %	1.23	1.23	1.22	1.22	1.23	1.23
PCB-93	0.84	6.35 %	0.80	0.85	0.86	0.85	0.77	0.93
PCB-88/91	1.12	3.65 %	1.05	1.11	1.15	1.12	1.16	1.10
PCB-121	1.62	5.39 %	1.66	1.53	1.61	1.62	1.52	1.75
PCB-84/92	1.05	3.37 %	1.10	1.00	1.04	1.04	1.04	1.06
PCB-89	1.13	4.67 %	1.23	1.07	1.13	1.14	1.11	1.10
PCB-90/101	1.10	1.29 %	1.11	1.08	1.12	1.10	1.08	1.11
PCB-113	1.41	6.93 %	1.52	1.30	1.46	1.49	1.29	1.41
PCB-99	1.34	8.14 %	1.19	1.49	1.27	1.27	1.42	1.36
PCB-119	1.53	3.61 %	1.51	1.46	1.54	1.52	1.53	1.63
PCB-108/112	1.28	3.29 %	1.26	1.25	1.25	1.28	1.29	1.36
PCB-83	1.52	3.93 %	1.64	1.49	1.52	1.49	1.48	1.49
PCB-97	1.18	4.68 %	1.29	1.13	1.14	1.17	1.17	1.19
PCB-86	0.84	7.14 %	0.84	0.82	0.81	0.80	0.83	0.96
PCB-87/117/125	1.55	5.06 %	1.46	1.50	1.49	1.59	1.59	1.66
PCB-111/115	1.63	1.45 %	1.61	1.64	1.61	1.61	1.65	1.67
PCB-85/116	1.30	4.51 %	1.35	1.21	1.27	1.31	1.31	1.37
PCB-120	1.68	3.52 %	1.67	1.69	1.60	1.63	1.70	1.77
PCB-110	1.56	2.67 %	1.63	1.50	1.56	1.56	1.54	1.55
PCB-82	0.76	2.07 %	0.78	0.75	0.74	0.76	0.76	0.76
PCB-124	1.47	4.97 %	1.43	1.40	1.45	1.43	1.51	1.60
PCB-107/109	1.32	3.64 %	1.31	1.24	1.29	1.35	1.37	1.36
PCB-123	1.17	1.49 %	1.14	1.16	1.18	1.18	1.16	1.19
PCB-106/118	1.17	2.46 %	1.20	1.13	1.19	1.17	1.15	1.20
PCB-114	1.30	1.22 %	1.29	1.31	1.31	1.31	1.28	1.28
PCB-122	1.12	0.66 %	1.13	1.12	1.12	1.11	1.11	1.12
PCB-105	1.30	1.61 %	1.32	1.28	1.31	1.28	1.28	1.33
PCB-127	1.33	5.30 %	1.46	1.31	1.37	1.27	1.28	1.32
PCB-126	1.18	1.24 %	1.18	1.16	1.19	1.17	1.18	1.21
PCB-155	1.11	2.06 %	1.10	1.11	1.10	1.11	1.11	1.16
PCB-150	1.00	4.51 %	0.93	0.99	0.98	1.00	1.03	1.06
PCB-152	1.12	4.70 %	1.15	1.02	1.12	1.10	1.12	1.18
PCB-145	1.20	4.85 %	1.17	1.13	1.18	1.19	1.23	1.30
PCB-136	1.18	1.51 %	1.17	1.17	1.17	1.15	1.21	1.19

PCB-148	0.74	7.90 %	0.70	0.72	0.74	0.74	0.72	0.86
PCB-154	0.86	3.14 %	0.85	0.86	0.88	0.83	0.83	0.90
PCB-151	0.75	8.09 %	0.86	0.69	0.73	0.71	0.71	0.77
PCB-135	0.79	9.11 %	0.89	0.82	0.70	0.77	0.73	0.84
PCB-144	0.76	6.76 %	0.70	0.75	0.76	0.71	0.82	0.82
PCB-147	0.82	6.64 %	0.80	0.80	0.78	0.79	0.83	0.93
PCB-139/149	0.76	6.06 %	0.79	0.71	0.73	0.74	0.77	0.84
PCB-140	0.72	3.18 %	0.70	0.73	0.73	0.70	0.71	0.76
PCB-134/143	0.92	3.43 %	0.95	0.89	0.89	0.89	0.94	0.95
PCB-133/142	0.82	3.97 %	0.86	0.78	0.79	0.80	0.83	0.85
PCB-131	0.91	1.88 %	0.92	0.93	0.90	0.89	0.90	0.90

PCB-146/165	1.25	4.47 %	1.32	1.16	1.22	1.23	1.26	1.29
PCB-132/161	1.10	4.39 %	1.19	1.06	1.07	1.08	1.09	1.14
PCB-153	1.25	3.90 %	1.19	1.33	1.24	1.23	1.27	1.24
PCB-168	1.45	3.18 %	1.40	1.41	1.43	1.45	1.48	1.52
PCB-141	1.09	4.31 %	1.16	1.12	1.04	1.06	1.05	1.09
PCB-137	1.06	4.15 %	1.07	1.02	1.03	1.05	1.06	1.14
PCB-130	0.96	5.65 %	1.06	0.91	0.99	0.97	0.96	0.90
PCB-138/163/164	1.29	4.03 %	1.26	1.23	1.30	1.27	1.31	1.38
PCB-158/160	1.34	4.62 %	1.24	1.30	1.39	1.34	1.37	1.41
PCB-129	0.85	2.93 %	0.85	0.82	0.87	0.84	0.86	0.89
PCB-166	1.19	1.02 %	1.19	1.18	1.18	1.17	1.18	1.21
PCB-159	1.11	2.18 %	1.10	1.09	1.11	1.11	1.10	1.16
PCB-128/162	1.05	3.89 %	1.12	1.04	1.00	1.02	1.03	1.07
PCB-167	1.20	2.55 %	1.15	1.21	1.21	1.20	1.19	1.24
PCB-156	1.14	4.58 %	1.06	1.09	1.18	1.14	1.16	1.19
PCB-157	1.16	5.07 %	1.28	1.16	1.14	1.13	1.12	1.15
PCB-169	1.12	7.20 %	1.28	1.07	1.09	1.08	1.07	1.12
PCB-188	1.58	3.04 %	1.58	1.66	1.55	1.56	1.52	1.61
PCB-184	1.63	2.34 %	1.61	1.66	1.69	1.60	1.60	1.64
PCB-179	1.30	4.28 %	1.27	1.41	1.29	1.30	1.26	1.29
PCB-176	1.48	4.46 %	1.61	1.46	1.45	1.46	1.45	1.44
PCB-186	1.45	8.39 %	1.69	1.34	1.36	1.45	1.46	1.43
PCB-178	1.03	3.35 %	1.03	1.05	1.10	1.02	1.00	1.00
PCB-175	1.01	1.89 %	1.05	1.02	1.00	1.01	0.99	1.01
PCB-182/187	1.25	2.08 %	1.28	1.25	1.24	1.21	1.26	1.28
PCB-183	1.21	5.09 %	1.33	1.19	1.21	1.15	1.18	1.19
PCB-185	1.80	4.35 %	1.77	1.68	1.87	1.78	1.82	1.89
PCB-174	1.38	4.65 %	1.34	1.30	1.33	1.42	1.47	1.40
PCB-181	1.38	7.65 %	1.25	1.33	1.44	1.36	1.35	1.56
PCB-177	1.26	3.80 %	1.18	1.23	1.28	1.26	1.28	1.32
PCB-171	1.58	6.45 %	1.43	1.54	1.57	1.59	1.61	1.74
PCB-173	1.11	6.27 %	0.97	1.11	1.14	1.13	1.13	1.17
PCB-172	1.63	10.65 %	1.31	1.67	1.66	1.64	1.70	1.83
PCB-192	1.74	6.94 %	1.52	1.71	1.77	1.78	1.79	1.87
PCB-180	1.34	3.01 %	1.35	1.27	1.37	1.35	1.34	1.39
PCB-193	1.72	3.48 %	1.81	1.65	1.67	1.72	1.69	1.76
PCB-191	1.69	2.79 %	1.73	1.62	1.71	1.68	1.67	1.75
PCB-170	1.60	3.31 %	1.54	1.53	1.63	1.62	1.61	1.66
PCB-190	2.21	4.63 %	2.14	2.04	2.28	2.23	2.23	2.33
PCB-189	1.55	1.89 %	1.58	1.50	1.54	1.55	1.55	1.58
PCB-202	1.08	3.14 %	1.09	1.05	1.05	1.06	1.10	1.14
PCB-201	1.15	2.55 %	1.11	1.14	1.16	1.13	1.16	1.20
PCB-204	1.14	6.76 %	1.02	1.10	1.14	1.14	1.18	1.25
PCB-197	1.07	2.46 %	1.09	1.04	1.05	1.07	1.09	1.11
PCB-200	1.06	2.80 %	1.08	1.01	1.05	1.06	1.09	1.09
PCB-198	0.76	5.28 %	0.74	0.69	0.76	0.77	0.76	0.81
PCB-199	0.80	5.91 %	0.76	0.86	0.75	0.76	0.82	0.83
PCB-196/203	0.80	9.29 %	0.71	0.75	0.77	0.80	0.86	0.91
PCB-195	1.23	4.42 %	1.15	1.18	1.24	1.24	1.25	1.30
PCB-194	1.21	4.43 %	1.32	1.19	1.18	1.19	1.18	1.20

PCB-205	1.54	2.37 %	1.51	1.58	1.53	1.52	1.51	1.60
PCB-208	0.93	1.86 %	0.95	0.92	0.91	0.92	0.94	0.94
PCB-207	1.08	2.65 %	1.07	1.07	1.05	1.08	1.12	1.12
PCB-206	1.02	4.52 %	1.11	1.03	0.99	1.01	0.97	1.03
PCB-209	1.17	3.05 %	1.15	1.12	1.17	1.20	1.17	1.22
Total Mono-PCB	1.27	6.66 %	1.15	1.21	1.24	1.31	1.35	1.36
Total Di-PCB	1.21	2.10 %	1.19	1.18	1.20	1.21	1.22	1.25
Total Tri-PCB	1.10	2.76 %	1.06	1.08	1.09	1.10	1.10	1.15

Total Tri-PCB	1.21	6.05 %	1.33	1.23	1.24	1.21	1.15	1.12
Total Tetra-PCB	1.09	2.96 %	1.14	1.10	1.08	1.06	1.06	1.09
Total Penta-PCB	1.18	1.93 %	1.18	1.16	1.17	1.18	1.18	1.23
Total Penta-PCB	1.25	1.50 %	1.28	1.24	1.26	1.23	1.23	1.25
Total Hexa-PCB	0.90	3.60 %	0.90	0.87	0.88	0.88	0.90	0.96
Total Hexa-PCB	1.11	2.03 %	1.13	1.08	1.10	1.09	1.11	1.14
Total Hepta-PCB	1.42	1.47 %	1.41	1.40	1.42	1.41	1.41	1.46
Total Octa-PCB	0.96	4.13 %	0.92	0.93	0.95	0.96	0.99	1.03
Total Octa-PCB	1.33	1.46 %	1.33	1.31	1.32	1.32	1.32	1.36
Total Nona-PCB	1.01	1.96 %	1.03	1.00	0.98	1.00	1.02	1.03
Total Deca-PCB	1.17	3.05 %	1.15	1.12	1.17	1.20	1.17	1.22
13C-PCB-1	0.87	10.59 %	1.00	0.92	0.91	0.86	0.77	0.77
13C-PCB-3	0.91	9.90 %	1.04	0.97	0.96	0.86	0.81	0.83
13C-PCB-4	0.59	1.89 %	0.60	0.60	0.60	0.59	0.57	0.57
13C-PCB-9	0.90	1.45 %	0.90	0.91	0.91	0.89	0.88	0.88
13C-PCB-11	0.94	1.14 %	0.95	0.94	0.95	0.92	0.93	0.94
13C-PCB-19	0.53	8.18 %	0.58	0.56	0.56	0.53	0.48	0.48
13C-PCB-32	0.80	5.62 %	0.87	0.82	0.80	0.78	0.77	0.74
13C-PCB-28	0.93	4.96 %	0.92	0.91	0.93	0.92	0.89	1.02
13C-PCB-37	0.84	6.29 %	0.87	0.84	0.79	0.79	0.82	0.93
13C-PCB-54	0.97	0.69 %	0.96	0.96	0.97	0.98	0.97	0.98
13C-PCB-52	0.77	2.27 %	0.80	0.77	0.77	0.78	0.76	0.75
13C-PCB-47	0.81	2.56 %	0.85	0.80	0.81	0.82	0.81	0.78
13C-PCB-70	1.00	1.92 %	1.03	0.99	0.99	0.98	1.00	1.02
13C-PCB-80	1.03	1.60 %	1.05	1.02	1.02	1.01	1.04	1.05
13C-PCB-81	0.92	3.24 %	0.91	0.91	0.92	0.89	0.93	0.98
13C-PCB-77	0.94	2.93 %	0.95	0.93	0.92	0.91	0.98	0.97
13C-PCB-104	1.00	2.32 %	1.02	1.02	1.01	1.00	1.00	0.96
13C-PCB-95	0.74	1.65 %	0.74	0.73	0.73	0.74	0.77	0.74
13C-PCB-101	0.78	1.28 %	0.79	0.79	0.77	0.77	0.80	0.79
13C-PCB-97	0.70	1.19 %	0.72	0.71	0.71	0.69	0.71	0.70
13C-PCB-123	0.89	2.20 %	0.92	0.90	0.90	0.87	0.88	0.89
13C-PCB-118	0.96	2.66 %	0.96	0.97	0.95	0.92	0.98	0.99
13C-PCB-114	1.36	3.25 %	1.33	1.33	1.35	1.35	1.37	1.45
13C-PCB-105	1.37	3.32 %	1.34	1.34	1.36	1.32	1.38	1.45
13C-PCB-127	1.47	2.80 %	1.42	1.48	1.48	1.45	1.48	1.54
13C-PCB-126	1.31	1.41 %	1.29	1.30	1.31	1.31	1.30	1.34
13C-PCB-155	0.84	3.94 %	0.89	0.85	0.84	0.83	0.83	0.79
13C-PCB-153	1.15	1.31 %	1.15	1.16	1.15	1.14	1.12	1.15
13C-PCB-141	1.07	1.13 %	1.07	1.09	1.09	1.07	1.06	1.07
13C-PCB-138	1.10	0.94 %	1.10	1.11	1.09	1.11	1.09	1.09
13C-PCB-159	1.25	1.27 %	1.26	1.27	1.25	1.22	1.24	1.25
13C-PCB-167	1.35	1.38 %	1.36	1.37	1.35	1.33	1.37	1.33
13C-PCB-156	1.30	1.09 %	1.30	1.30	1.29	1.28	1.30	1.32
13C-PCB-157	1.36	1.30 %	1.37	1.36	1.35	1.33	1.36	1.38
13C-PCB-169	1.29	2.02 %	1.32	1.28	1.29	1.24	1.28	1.29
13C-PCB-188	0.92	2.20 %	0.95	0.90	0.91	0.92	0.91	0.91
13C-PCB-180	0.68	5.20 %	0.75	0.70	0.67	0.67	0.67	0.65
13C-PCB-170	0.54	5.16 %	0.59	0.56	0.53	0.53	0.53	0.52
13C-PCB-189	0.72	4.14 %	0.77	0.74	0.71	0.69	0.69	0.70
13C-PCB-202	0.84	6.77 %	0.94	0.87	0.83	0.81	0.80	0.78

13C-PCB-194	0.80	1.04 %	0.79	0.81	0.80	0.79	0.80	0.79
13C-PCB-208	1.08	1.09 %	1.09	1.09	1.09	1.08	1.07	1.07
13C-PCB-206	0.65	2.52 %	0.65	0.66	0.65	0.65	0.67	0.62
13C-PCB-209	0.61	3.41 %	0.62	0.62	0.63	0.59	0.63	0.58
13C-PCB-15	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-31	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-60	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-111	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-128	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-205	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

13C-PCB-79	1.02	1.30 %	1.02	1.02	1.02	1.00	1.01	1.04
13C-PCB-178	0.61	3.59 %	0.64	0.63	0.61	0.62	0.60	0.58
13C-PCB-79	1.10	2.04 %	1.11	1.12	1.11	1.12	1.09	1.06
13C-PCB-178	0.90	2.70 %	0.86	0.90	0.92	0.93	0.89	0.90

Filename: 140623E2 S: 1 Acquired: 23-JUN-14 11:41:57
Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
Sample text: ST140623E2-1 PCB CS0 14F1602

	Typ	Name	Amount	Resp	RA		RT	RF	RRF
1	Mono	PCB-1	0.25	4.81e+05	2.67	y	16:24	-	1.04
2	Mono	PCB-2	0.25	5.03e+05	3.50	y	18:40	-	1.05
3	Mono	PCB-3	0.25	6.38e+05	2.83	y	18:54	-	1.34
4	Di	PCB-4/10	1.00	1.68e+06	1.64	y	20:13	-	1.53
5	Di	PCB-7/9	1.00	2.03e+06	1.59	y	21:57	-	1.22
6	Di	PCB-6	0.50	1.04e+06	1.77	y	22:34	-	1.25
7	Di	PCB-5/8	1.00	1.87e+06	1.60	y	22:59	-	1.13
8	Di	PCB-14	0.50	9.15e+05	1.73	y	24:03	-	1.05
9	Di	PCB-11	0.50	9.14e+05	1.60	y	25:13	-	1.05
10	Di	PCB-12/13	1.00	2.03e+06	1.71	y	25:37	-	1.17
11	Di	PCB-15	0.50	1.13e+06	1.70	y	25:55	-	1.29
12	Tri	PCB-19	0.25	2.77e+05	1.03	y	24:14	-	1.04
13	Tri	PCB-30	0.25	4.46e+05	1.08	y	25:06	-	1.67
14	Tri	PCB-18	0.25	2.82e+05	1.17	y	25:50	-	0.71
15	Tri	PCB-17	0.25	3.59e+05	0.95	y	26:01	-	0.90
16	Tri	PCB-24/27	0.50	9.03e+05	1.12	y	26:35	-	1.13
17	Tri	PCB-16/32	0.50	7.35e+05	1.02	y	27:05	-	0.92
18	Tri	PCB-34	0.25	4.46e+05	1.14	y	27:51	-	1.15
19	Tri	PCB-23	0.25	5.33e+05	1.13	y	27:57	-	1.38
20	Tri	PCB-29	0.25	4.32e+05	1.02	y	28:12	-	1.11
21	Tri	PCB-26	0.25	4.83e+05	0.94	y	28:24	-	1.25
22	Tri	PCB-25	0.25	5.38e+05	0.92	y	28:33	-	1.39
23	Tri	PCB-31	0.25	5.81e+05	0.96	y	28:55	-	1.50
24	Tri	PCB-28	0.25	7.03e+05	1.16	y	29:01	-	1.81
25	Tri	PCB-20/21/33	0.75	1.33e+06	1.03	y	29:38	-	1.15
26	Tri	PCB-22	0.25	5.26e+05	1.01	y	30:04	-	1.36
27	Tri	PCB-36	0.25	4.96e+05	1.00	y	30:41	-	1.36
28	Tri	PCB-39	0.25	4.79e+05	1.13	y	31:08	-	1.31
29	Tri	PCB-38	0.25	5.28e+05	1.17	y	31:55	-	1.44
30	Tri	PCB-35	0.25	5.13e+05	0.95	y	32:25	-	1.40
31	Tri	PCB-37	0.25	5.06e+05	1.03	y	32:51	-	1.38
32	Tetra	PCB-54	0.25	3.83e+05	0.67	y	27:55	-	1.18
33	Tetra	PCB-50	0.25	3.14e+05	0.72	y	29:04	-	0.97
34	Tetra	PCB-53	0.25	2.86e+05	0.85	y	29:42	-	1.06
35	Tetra	PCB-51	0.25	2.57e+05	0.85	y	30:03	-	0.95
36	Tetra	PCB-45	0.25	2.55e+05	0.84	y	30:28	-	0.95
37	Tetra	PCB-46	0.25	2.42e+05	0.82	y	30:58	-	0.90
38	Tetra	PCB-52/69	0.50	6.62e+05	0.73	y	31:25	-	1.23
39	Tetra	PCB-73	0.25	3.88e+05	0.72	y	31:32	-	1.44
40	Tetra	PCB-43/49	0.50	5.73e+05	0.83	y	31:42	-	1.07

41	Tetra	PCB-47	0.25	3.18e+05	0.79 y	31:55	-	1.12
42	Tetra	PCB-48/75	0.50	7.61e+05	0.81 y	32:01	-	1.34
43	Tetra	PCB-65	0.25	3.48e+05	0.88 y	32:17	-	1.22
44	Tetra	PCB-62	0.25	4.17e+05	0.79 y	32:24	-	1.47
45	Tetra	PCB-44	0.25	2.83e+05	0.73 y	32:42	-	1.00
46	Tetra	PCB-42/59	0.50	6.84e+05	0.76 y	32:55	-	1.20
47	Tetra	PCB-41/64/71/72	1.00	1.41e+06	0.76 y	33:30	-	1.24
48	Tetra	PCB-68	0.25	4.05e+05	0.81 y	33:46	-	1.42
49	Tetra	PCB-40	0.25	1.96e+05	0.70 y	34:00	-	0.69
50	Tetra	PCB-57	0.25	3.33e+05	0.87 y	34:20	-	0.97
51	Tetra	PCB-67	0.25	4.09e+05	0.84 y	34:38	-	1.19

52	Tetra	PCB-58	0.25	3.10e+05	0.67 y	34:45	-	0.90
53	Tetra	PCB-63	0.25	3.84e+05	0.79 y	34:55	-	1.12
54	Tetra	PCB-74	0.25	4.62e+05	0.82 y	35:12	-	1.34
55	Tetra	PCB-61/70	0.50	6.62e+05	0.77 y	35:23	-	0.96
56	Tetra	PCB-76/66	0.50	7.64e+05	0.73 y	35:35	-	1.11
57	Tetra	PCB-80	0.25	4.01e+05	0.75 y	35:49	-	1.13
58	Tetra	PCB-55	0.25	3.54e+05	0.77 y	36:09	-	1.00
59	Tetra	PCB-56/60	0.50	7.14e+05	0.78 y	36:39	-	1.01
60	Tetra	PCB-79	0.25	3.94e+05	0.76 y	37:42	-	1.12
61	Tetra	PCB-78	0.25	4.28e+05	0.69 y	38:24	-	1.40
62	Tetra	PCB-81	0.25	4.55e+05	0.75 y	38:56	-	1.49
63	Tetra	PCB-77	0.25	3.79e+05	0.71 y	39:31	-	1.19
64	Penta	PCB-104	0.25	2.69e+05	1.51 y	32:34	-	1.13
65	Penta	PCB-96	0.25	2.62e+05	1.46 y	33:49	-	1.10
66	Penta	PCB-103	0.25	2.37e+05	1.63 y	34:21	-	0.99
67	Penta	PCB-100	0.25	2.32e+05	1.75 y	34:43	-	0.97
68	Penta	PCB-94	0.25	2.02e+05	1.62 y	35:10	-	1.17
69	Penta	PCB-95/98/102	0.75	6.38e+05	1.53 y	35:40	-	1.23
70	Penta	PCB-93	0.25	1.38e+05	1.68 y	35:48	-	0.80
71	Penta	PCB-88/91	0.50	3.63e+05	1.40 y	36:05	-	1.05
72	Penta	PCB-121	0.25	2.89e+05	1.74 y	36:10	-	1.66
73	Penta	PCB-84/92	0.50	4.09e+05	1.74 y	37:00	-	1.10
74	Penta	PCB-89	0.25	2.28e+05	1.35 y	37:12	-	1.23
75	Penta	PCB-90/101	0.50	4.11e+05	1.60 y	37:22	-	1.11
76	Penta	PCB-113	0.25	2.82e+05	1.48 y	37:38	-	1.52
77	Penta	PCB-99	0.25	2.22e+05	1.49 y	37:43	-	1.19
78	Penta	PCB-119	0.25	2.54e+05	1.74 y	38:11	-	1.51
79	Penta	PCB-108/112	0.50	4.22e+05	1.43 y	38:20	-	1.26
80	Penta	PCB-83	0.25	2.75e+05	1.61 y	38:30	-	1.64
81	Penta	PCB-97	0.25	2.16e+05	1.33 y	38:41	-	1.29
82	Penta	PCB-86	0.25	1.41e+05	1.33 y	38:50	-	0.84
83	Penta	PCB-87/117/125	0.75	7.34e+05	1.43 y	38:57	-	1.46
84	Penta	PCB-111/115	0.50	5.41e+05	1.52 y	39:08	-	1.61
85	Penta	PCB-85/116	0.50	4.52e+05	1.76 y	39:15	-	1.35
86	Penta	PCB-120	0.25	2.81e+05	1.77 y	39:29	-	1.67
87	Penta	PCB-110	0.25	2.74e+05	1.56 y	39:38	-	1.63
88	Penta	PCB-82	0.25	1.70e+05	1.65 y	40:16	-	0.78
89	Penta	PCB-124	0.25	3.10e+05	1.57 y	40:57	-	1.43
90	Penta	PCB-107/109	0.50	5.68e+05	1.59 y	41:05	-	1.31
91	Penta	PCB-123	0.25	2.47e+05	1.58 y	41:16	-	1.14
92	Penta	PCB-106/118	0.50	5.38e+05	1.47 y	41:27	-	1.20
93	Penta	PCB-114	0.25	3.15e+05	1.48 y	42:06	-	1.29
94	Penta	PCB-122	0.25	2.77e+05	1.67 y	42:14	-	1.13
95	Penta	PCB-105	0.25	3.23e+05	1.61 y	42:58	-	1.32
96	Penta	PCB-127	0.25	3.79e+05	1.59 y	43:18	-	1.46
97	Penta	PCB-126	0.25	2.78e+05	1.58 y	45:12	-	1.18
98	Hexa	PCB-155	0.25	2.29e+05	1.14 y	36:56	-	1.10
99	Hexa	PCB-150	0.25	1.94e+05	1.23 y	38:12	-	0.93
100	Hexa	PCB-152	0.25	2.40e+05	1.08 y	38:40	-	1.15
101	Hexa	PCB-145	0.25	2.45e+05	1.20 y	39:08	-	1.17

102	Hexa	PCB-136	0.25	2.45e+05	1.20 y	39:27	-	1.17
103	Hexa	PCB-148	0.25	1.45e+05	1.15 y	39:33	-	0.70
104	Hexa	PCB-154	0.25	1.77e+05	1.37 y	40:02	-	0.85
105	Hexa	PCB-151	0.25	1.79e+05	1.18 y	40:41	-	0.86
106	Hexa	PCB-135	0.25	1.86e+05	1.13 y	40:54	-	0.89
107	Hexa	PCB-144	0.25	1.47e+05	1.40 y	41:00	-	0.70
108	Hexa	PCB-147	0.25	1.67e+05	1.07 y	41:08	-	0.80
109	Hexa	PCB-139/149	0.50	3.29e+05	1.16 y	41:24	-	0.79
110	Hexa	PCB-140	0.25	1.47e+05	1.10 y	41:35	-	0.70
111	Hexa	PCB-134/143	0.50	4.01e+05	1.40 y	42:01	-	0.95
112	Hexa	PCB-133/142	0.50	3.65e+05	1.40 y	42:19	-	0.86

113	Hexa	PCB-131	0.25	1.96e+05	1.21	y	42:29	0.92
114	Hexa	PCB-146/165	0.50	5.59e+05	1.30	y	42:42	1.32
115	Hexa	PCB-132/161	0.50	5.02e+05	1.30	y	42:57	1.19
116	Hexa	PCB-153	0.25	2.51e+05	1.25	y	43:06	1.19
117	Hexa	PCB-168	0.25	2.97e+05	1.27	y	43:20	1.40
118	Hexa	PCB-141	0.25	2.26e+05	1.36	y	43:51	1.16
119	Hexa	PCB-137	0.25	2.10e+05	1.21	y	44:14	1.07
120	Hexa	PCB-130	0.25	2.06e+05	1.15	y	44:20	1.06
121	Hexa	PCB-138/163/164	0.75	7.59e+05	1.25	y	44:43	1.26
122	Hexa	PCB-158/160	0.50	5.00e+05	1.32	y	44:58	1.24
123	Hexa	PCB-129	0.25	1.71e+05	1.19	y	45:12	0.85
124	Hexa	PCB-166	0.25	2.74e+05	1.28	y	45:40	1.19
125	Hexa	PCB-159	0.25	2.53e+05	1.29	y	46:00	1.10
126	Hexa	PCB-128/162	0.50	5.15e+05	1.18	y	46:17	1.12
127	Hexa	PCB-167	0.25	2.86e+05	1.19	y	46:40	1.15
128	Hexa	PCB-156	0.25	2.51e+05	1.34	y	47:59	1.06
129	Hexa	PCB-157	0.25	3.21e+05	1.29	y	48:15	1.28
130	Hexa	PCB-169	0.25	3.10e+05	1.35	y	50:19	1.28
131	Hepta	PCB-188	0.25	2.77e+05	1.01	y	42:45	1.58
132	Hepta	PCB-184	0.25	2.81e+05	1.07	y	43:12	1.61
133	Hepta	PCB-179	0.25	2.22e+05	0.95	y	43:58	1.27
134	Hepta	PCB-176	0.25	2.82e+05	1.14	y	44:27	1.61
135	Hepta	PCB-186	0.25	2.95e+05	1.09	y	45:04	1.69
136	Hepta	PCB-178	0.25	1.81e+05	0.95	y	45:33	1.03
137	Hepta	PCB-175	0.25	1.83e+05	1.03	y	45:54	1.05
138	Hepta	PCB-182/187	0.50	4.48e+05	0.94	y	46:04	1.28
139	Hepta	PCB-183	0.25	2.33e+05	1.14	y	46:23	1.33
140	Hepta	PCB-185	0.25	2.42e+05	0.91	y	47:03	1.77
141	Hepta	PCB-174	0.25	1.84e+05	0.97	y	47:25	1.34
142	Hepta	PCB-181	0.25	1.71e+05	0.89	y	47:31	1.25
143	Hepta	PCB-177	0.25	1.62e+05	1.15	y	47:41	1.18
144	Hepta	PCB-171	0.25	1.96e+05	0.95	y	48:00	1.43
145	Hepta	PCB-173	0.25	1.34e+05	1.04	y	48:25	0.97
146	Hepta	PCB-172	0.25	1.79e+05	1.06	y	48:52	1.31
147	Hepta	PCB-192	0.25	2.08e+05	1.05	y	49:03	1.52
148	Hepta	PCB-180	0.25	1.86e+05	1.04	y	49:15	1.35
149	Hepta	PCB-193	0.25	2.48e+05	1.20	y	49:27	1.81
150	Hepta	PCB-191	0.25	2.37e+05	0.93	y	49:42	1.73
151	Hepta	PCB-170	0.25	1.67e+05	1.00	y	50:41	1.54
152	Hepta	PCB-190	0.25	2.32e+05	1.20	y	50:51	2.14
153	Hepta	PCB-189	0.25	2.21e+05	0.99	y	52:07	1.58
154	Octa	PCB-202	0.25	1.87e+05	0.90	y	48:11	1.09
155	Octa	PCB-201	0.25	1.91e+05	0.96	y	48:40	1.11
156	Octa	PCB-204	0.25	1.75e+05	0.89	y	48:50	1.02
157	Octa	PCB-197	0.25	1.86e+05	1.01	y	49:08	1.09
158	Octa	PCB-200	0.25	1.85e+05	1.02	y	49:59	1.08
159	Octa	PCB-198	0.25	1.27e+05	0.92	y	51:14	0.74
160	Octa	PCB-199	0.25	1.30e+05	0.87	y	51:21	0.76
161	Octa	PCB-196/203	0.50	2.45e+05	0.96	y	51:36	0.71
162	Octa	PCB-195	0.25	1.54e+05	0.94	y	52:45	1.15

163	Octa		PCB-194	0.25	1.77e+05	0.95	y	53:38	- 1.32
164	Octa		PCB-205	0.25	2.02e+05	0.89	y	53:56	- 1.51
165	Nona		PCB-208	0.25	1.76e+05	1.45	y	52:54	- 0.95
166	Nona		PCB-207	0.25	1.98e+05	1.16	y	53:13	- 1.07
167	Nona		PCB-206	0.25	1.21e+05	1.45	y	55:20	- 1.11
168	Deca		PCB-209	0.25	1.20e+05	1.18	y	56:37	- 1.15
169	Tot ╗		Total Mono-PCB	0.00	-	-	n	-	- 1.15
170	Tot ╗		Total Di-PCB	0.00	-	-	n	-	- 1.19

171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.06
172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.33
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.14
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.18
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.28
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.90
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.13
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.41
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.92
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.33
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.03
182	Tot ╗	Total Deca-PCB	0.25	1.20e+05	1.18	y	56:37	-	1.15
183	Mono╗	13C-PCB-1	100.00	1.84e+08	3.30	y	16:23	-	1.00
184	Mono╗	13C-PCB-3	100.00	1.91e+08	3.30	y	18:53	-	1.04
185	Di-IS	13C-PCB-4	100.00	1.10e+08	1.58	y	20:10	-	0.60
186	Di-IS	13C-PCB-9	100.00	1.66e+08	1.58	y	21:54	-	0.90
187	Di-IS	13C-PCB-11	100.00	1.74e+08	1.56	y	25:12	-	0.95
188	Tri-╗	13C-PCB-19	100.00	1.07e+08	1.08	y	24:13	-	0.58
189	Tri-╗	13C-PCB-32	100.00	1.60e+08	1.07	y	27:05	-	0.87
190	Tri-╗	13C-PCB-28	100.00	1.55e+08	1.06	y	29:00	-	0.92
191	Tri-╗	13C-PCB-37	100.00	1.46e+08	1.07	y	32:51	-	0.87
192	Tetr╗	13C-PCB-54	100.00	1.29e+08	0.80	y	27:54	-	0.96
193	Tetr╗	13C-PCB-52	100.00	1.08e+08	0.80	y	31:23	-	0.80
194	Tetr╗	13C-PCB-47	100.00	1.14e+08	0.80	y	31:53	-	0.85
195	Tetr╗	13C-PCB-70	100.00	1.38e+08	0.80	y	35:24	-	1.03
196	Tetr╗	13C-PCB-80	100.00	1.41e+08	0.80	y	35:48	-	1.05
197	Tetr╗	13C-PCB-81	100.00	1.22e+08	0.80	y	38:55	-	0.91
198	Tetr╗	13C-PCB-77	100.00	1.28e+08	0.80	y	39:31	-	0.95
199	Pent╗	13C-PCB-104	100.00	9.53e+07	1.55	y	32:33	-	1.02
200	Pent╗	13C-PCB-95	100.00	6.94e+07	1.58	y	35:42	-	0.74
201	Pent╗	13C-PCB-101	100.00	7.42e+07	1.61	y	37:22	-	0.79
202	Pent╗	13C-PCB-97	100.00	6.72e+07	1.62	y	38:40	-	0.72
203	Pent╗	13C-PCB-123	100.00	8.66e+07	1.59	y	41:15	-	0.92
204	Pent╗	13C-PCB-118	100.00	9.00e+07	1.59	y	41:25	-	0.96
205	Pent╗	13C-PCB-114	100.00	9.79e+07	1.62	y	42:05	-	1.33
206	Pent╗	13C-PCB-105	100.00	9.84e+07	1.62	y	42:57	-	1.34
207	Pent╗	13C-PCB-127	100.00	1.04e+08	1.60	y	43:17	-	1.42
208	Pent╗	13C-PCB-126	100.00	9.44e+07	1.59	y	45:11	-	1.29
209	Hexa╗	13C-PCB-155	100.00	8.36e+07	1.29	y	36:55	-	0.89
210	Hexa╗	13C-PCB-153	100.00	8.47e+07	1.26	y	43:06	-	1.15
211	Hexa╗	13C-PCB-141	100.00	7.81e+07	1.26	y	43:50	-	1.07
212	Hexa	13C-PCB-138	100.00	8.05e+07	1.27	y	44:41	-	1.10
213	Hexa╗	13C-PCB-159	100.00	9.21e+07	1.27	y	45:58	-	1.26
214	Hexa╗	13C-PCB-167	100.00	9.97e+07	1.26	y	46:40	-	1.36
215	Hexa╗	13C-PCB-156	100.00	9.50e+07	1.29	y	47:58	-	1.30
216	Hexa╗	13C-PCB-157	100.00	1.00e+08	1.32	y	48:14	-	1.37
217	Hexa╗	13C-PCB-169	100.00	9.71e+07	1.27	y	50:19	-	1.32
218	Hept╗	13C-PCB-188	100.00	7.00e+07	0.47	y	42:44	-	0.95
219	Hept╗	13C-PCB-180	100.00	5.49e+07	0.46	y	49:15	-	0.75
220	Hept╗	13C-PCB-170	100.00	4.33e+07	0.46	y	50:40	-	0.59
221	Hept╗	13C-PCB-189	100.00	5.61e+07	0.46	y	52:07	-	0.77

222	Octa¬	13C-PCB-202	100.00	6.86e+07	0.93 y	48:10	-	0.94
223	Octa¬	13C-PCB-194	100.00	5.37e+07	0.93 y	53:37	-	0.79
224	Nona¬	13C-PCB-208	100.00	7.40e+07	0.78 y	52:53	-	1.09
225	Nona¬	13C-PCB-206	100.00	4.38e+07	0.78 y	55:20	-	0.65
226	Deca¬	13C-PCB-209	100.00	4.18e+07	1.19 y	56:37	-	0.62
227	DI-RS	13C-PCB-15	100.00	1.84e+08	1.59 y	25:54	-	1.00
228	Tri-¬	13C-PCB-31	100.00	1.69e+08	1.07 y	28:54	-	1.00
229	Tetr¬	13C-PCB-60	100.00	1.34e+08	0.80 y	36:38	-	1.00
230	Penta	13C-PCB-111	100.00	9.38e+07	1.57 y	39:06	-	1.00
231	Hexa¬	13C-PCB-128	100.00	7.33e+07	1.25 y	46:16	-	1.00

232	Octa¶	13C-PCB-205	100.00	6.77e+07	0.90	y	53:55	-	1.00
233	CRS	13C-PCB-79	100.00	1.36e+08	0.80	y	37:41	-	1.02
234	CRS	13C-PCB-178	100.00	4.71e+07	0.46	y	45:32	-	0.64
235	PS	13C-PCB-79	100.00	1.36e+08	0.80	y	37:41	-	1.11
236	PS	13C-PCB-178	100.00	4.71e+07	0.46	y	45:32	-	0.86

Filename: 140623E2 S: 2 Acquired: 23-JUN-14 12:45:53
Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
Sample text: ST140623E2-2 PCB CS1 14F1603

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	1.00	1.92e+06	3.07 y	16:24	-	1.13
2	Mono	PCB-2	1.00	2.00e+06	3.10 y	18:41	-	1.12
3	Mono	PCB-3	1.00	2.45e+06	2.99 y	18:54	-	1.37
4	Di	PCB-4/10	4.00	6.76e+06	1.61 y	20:14	-	1.54
5	Di	PCB-7/9	4.00	7.85e+06	1.66 y	21:57	-	1.17
6	Di	PCB-6	2.00	4.27e+06	1.72 y	22:35	-	1.28
7	Di	PCB-5/8	4.00	7.47e+06	1.65 y	22:59	-	1.12
8	Di	PCB-14	2.00	3.76e+06	1.62 y	24:03	-	1.09
9	Di	PCB-11	2.00	3.76e+06	1.61 y	25:13	-	1.09
10	Di	PCB-12/13	4.00	8.12e+06	1.62 y	25:37	-	1.17
11	Di	PCB-15	2.00	4.22e+06	1.64 y	25:55	-	1.22
12	Tri	PCB-19	1.00	1.05e+06	1.10 y	24:15	-	1.01
13	Tri	PCB-30	1.00	1.69e+06	1.10 y	25:06	-	1.64
14	Tri	PCB-18	1.00	1.19e+06	1.03 y	25:51	-	0.79
15	Tri	PCB-17	1.00	1.36e+06	1.06 y	26:01	-	0.90
16	Tri	PCB-24/27	2.00	3.54e+06	1.03 y	26:35	-	1.17
17	Tri	PCB-16/32	2.00	2.81e+06	1.04 y	27:05	-	0.93
18	Tri	PCB-34	1.00	1.77e+06	1.02 y	27:52	-	1.19
19	Tri	PCB-23	1.00	1.91e+06	1.05 y	27:58	-	1.28
20	Tri	PCB-29	1.00	1.69e+06	1.03 y	28:13	-	1.13
21	Tri	PCB-26	1.00	1.83e+06	1.06 y	28:25	-	1.23
22	Tri	PCB-25	1.00	1.86e+06	1.03 y	28:35	-	1.25
23	Tri	PCB-31	1.00	1.92e+06	1.03 y	28:55	-	1.29
24	Tri	PCB-28	1.00	2.63e+06	1.05 y	29:02	-	1.76
25	Tri	PCB-20/21/33	3.00	4.78e+06	1.06 y	29:38	-	1.07
26	Tri	PCB-22	1.00	1.85e+06	1.03 y	30:05	-	1.24
27	Tri	PCB-36	1.00	1.58e+06	0.96 y	30:41	-	1.16
28	Tri	PCB-39	1.00	1.53e+06	1.03 y	31:09	-	1.12
29	Tri	PCB-38	1.00	1.71e+06	0.96 y	31:56	-	1.25
30	Tri	PCB-35	1.00	1.61e+06	1.02 y	32:27	-	1.18
31	Tri	PCB-37	1.00	1.78e+06	0.99 y	32:53	-	1.30
32	Tetra	PCB-54	1.00	1.33e+06	0.85 y	27:56	-	1.06
33	Tetra	PCB-50	1.00	1.04e+06	0.83 y	29:04	-	0.83
34	Tetra	PCB-53	1.00	1.06e+06	0.75 y	29:43	-	1.05
35	Tetra	PCB-51	1.00	1.07e+06	0.77 y	30:03	-	1.06
36	Tetra	PCB-45	1.00	8.56e+05	0.81 y	30:29	-	0.85
37	Tetra	PCB-46	1.00	8.89e+05	0.82 y	30:58	-	0.89
38	Tetra	PCB-52/69	2.00	2.58e+06	0.75 y	31:26	-	1.29
39	Tetra	PCB-73	1.00	1.30e+06	0.82 y	31:33	-	1.30
40	Tetra	PCB-43/49	2.00	2.01e+06	0.79 y	31:43	-	1.01
41	Tetra	PCB-47	1.00	1.15e+06	0.76 y	31:55	-	1.10

42	Tetra	PCB-48/75	2.00	2.58e+06	0.79 y	32:02	-	1.24
43	Tetra	PCB-65	1.00	1.36e+06	0.70 y	32:18	-	1.30
44	Tetra	PCB-62	1.00	1.15e+06	0.75 y	32:25	-	1.10
45	Tetra	PCB-44	1.00	9.43e+05	0.71 y	32:42	-	0.90
46	Tetra	PCB-42/59	2.00	2.48e+06	0.73 y	32:56	-	1.19
47	Tetra	PCB-41/64/71/72	4.00	5.23e+06	0.81 y	33:31	-	1.25
48	Tetra	PCB-68	1.00	1.41e+06	0.83 y	33:46	-	1.35
49	Tetra	PCB-40	1.00	7.66e+05	0.68 y	34:00	-	0.73
50	Tetra	PCB-57	1.00	1.23e+06	0.73 y	34:21	-	0.96
51	Tetra	PCB-67	1.00	1.43e+06	0.70 y	34:39	-	1.11
52	Tetra	PCB-58	1.00	1.22e+06	0.81 y	34:46	-	0.95

53	Tetra	PCB-63	1.00	1.23e+06	0.72 y	34:55	-	0.95
54	Tetra	PCB-74	1.00	1.56e+06	0.79 y	35:12	-	1.21
55	Tetra	PCB-61/70	2.00	2.47e+06	0.75 y	35:23	-	0.96
56	Tetra	PCB-76/66	2.00	2.68e+06	0.76 y	35:36	-	1.04
57	Tetra	PCB-80	1.00	1.62e+06	0.71 y	35:50	-	1.22
58	Tetra	PCB-55	1.00	1.32e+06	0.77 y	36:09	-	0.99
59	Tetra	PCB-56/60	2.00	2.80e+06	0.73 y	36:39	-	1.06
60	Tetra	PCB-79	1.00	1.42e+06	0.79 y	37:42	-	1.07
61	Tetra	PCB-78	1.00	1.49e+06	0.78 y	38:25	-	1.26
62	Tetra	PCB-81	1.00	1.56e+06	0.81 y	38:56	-	1.32
63	Tetra	PCB-77	1.00	1.28e+06	0.77 y	39:32	-	1.07
64	Penta	PCB-104	1.00	1.07e+06	1.55 y	32:35	-	1.18
65	Penta	PCB-96	1.00	1.05e+06	1.49 y	33:50	-	1.15
66	Penta	PCB-103	1.00	8.47e+05	1.59 y	34:21	-	0.93
67	Penta	PCB-100	1.00	8.14e+05	1.70 y	34:42	-	0.90
68	Penta	PCB-94	1.00	7.01e+05	1.52 y	35:10	-	1.08
69	Penta	PCB-95/98/102	3.00	2.40e+06	1.45 y	35:40	-	1.23
70	Penta	PCB-93	1.00	5.56e+05	1.74 y	35:48	-	0.85
71	Penta	PCB-88/91	2.00	1.45e+06	1.50 y	36:05	-	1.11
72	Penta	PCB-121	1.00	9.97e+05	1.56 y	36:12	-	1.53
73	Penta	PCB-84/92	2.00	1.39e+06	1.53 y	37:00	-	1.00
74	Penta	PCB-89	1.00	7.51e+05	1.52 y	37:13	-	1.07
75	Penta	PCB-90/101	2.00	1.52e+06	1.60 y	37:23	-	1.08
76	Penta	PCB-113	1.00	9.10e+05	1.52 y	37:37	-	1.30
77	Penta	PCB-99	1.00	1.04e+06	1.45 y	37:42	-	1.49
78	Penta	PCB-119	1.00	9.16e+05	1.51 y	38:11	-	1.46
79	Penta	PCB-108/112	2.00	1.56e+06	1.62 y	38:20	-	1.25
80	Penta	PCB-83	1.00	9.33e+05	1.71 y	38:30	-	1.49
81	Penta	PCB-97	1.00	7.11e+05	1.49 y	38:42	-	1.13
82	Penta	PCB-86	1.00	5.14e+05	1.35 y	38:51	-	0.82
83	Penta	PCB-87/117/125	3.00	2.83e+06	1.57 y	38:57	-	1.50
84	Penta	PCB-111/115	2.00	2.06e+06	1.59 y	39:08	-	1.64
85	Penta	PCB-85/116	2.00	1.52e+06	1.65 y	39:16	-	1.21
86	Penta	PCB-120	1.00	1.06e+06	1.54 y	39:29	-	1.69
87	Penta	PCB-110	1.00	9.43e+05	1.47 y	39:38	-	1.50
88	Penta	PCB-82	1.00	6.04e+05	1.60 y	40:16	-	0.75
89	Penta	PCB-124	1.00	1.13e+06	1.50 y	40:56	-	1.40
90	Penta	PCB-107/109	2.00	2.00e+06	1.63 y	41:05	-	1.24
91	Penta	PCB-123	1.00	9.34e+05	1.64 y	41:15	-	1.16
92	Penta	PCB-106/118	2.00	1.94e+06	1.53 y	41:27	-	1.13
93	Penta	PCB-114	1.00	1.25e+06	1.49 y	42:06	-	1.31
94	Penta	PCB-122	1.00	1.07e+06	1.65 y	42:14	-	1.12
95	Penta	PCB-105	1.00	1.23e+06	1.59 y	42:58	-	1.28
96	Penta	PCB-127	1.00	1.38e+06	1.64 y	43:18	-	1.31
97	Penta	PCB-126	1.00	1.08e+06	1.55 y	45:12	-	1.16
98	Hexa	PCB-155	1.00	8.37e+05	1.10 y	36:56	-	1.11
99	Hexa	PCB-150	1.00	7.52e+05	1.14 y	38:12	-	0.99
100	Hexa	PCB-152	1.00	7.75e+05	1.29 y	38:40	-	1.02
101	Hexa	PCB-145	1.00	8.56e+05	1.22 y	39:08	-	1.13
102	Hexa	PCB-136	1.00	8.87e+05	1.27 y	39:27	-	1.17

103	Hexa	PCB-148	1.00	5.42e+05	1.31 y	39:33	-	0.72
104	Hexa	PCB-154	1.00	6.51e+05	1.13 y	40:02	-	0.86
105	Hexa	PCB-151	1.00	5.25e+05	1.34 y	40:41	-	0.69
106	Hexa	PCB-135	1.00	6.20e+05	1.16 y	40:53	-	0.82
107	Hexa	PCB-144	1.00	5.68e+05	1.14 y	41:00	-	0.75
108	Hexa	PCB-147	1.00	6.03e+05	1.39 y	41:08	-	0.80
109	Hexa	PCB-139/149	2.00	1.07e+06	1.35 y	41:24	-	0.71
110	Hexa	PCB-140	1.00	5.54e+05	1.12 y	41:35	-	0.73
111	Hexa	PCB-134/143	2.00	1.48e+06	1.32 y	42:02	-	0.89
112	Hexa	PCB-133/142	2.00	1.31e+06	1.23 y	42:19	-	0.78
113	Hexa	PCB-131	1.00	7.77e+05	1.25 y	42:29	-	0.93

114	Hexa	PCB-146/165	2.00	1.94e+06	1.26	y	42:42	- 1.16
115	Hexa	PCB-132/161	2.00	1.76e+06	1.27	y	42:57	- 1.06
116	Hexa	PCB-153	1.00	1.11e+06	1.29	y	43:06	- 1.33
117	Hexa	PCB-168	1.00	1.18e+06	1.25	y	43:19	- 1.41
118	Hexa	PCB-141	1.00	8.76e+05	1.23	y	43:51	- 1.12
119	Hexa	PCB-137	1.00	7.99e+05	1.23	y	44:15	- 1.02
120	Hexa	PCB-130	1.00	7.15e+05	1.22	y	44:20	- 0.91
121	Hexa	PCB-138/163/164	3.00	2.94e+06	1.28	y	44:43	- 1.23
122	Hexa	PCB-158/160	2.00	2.07e+06	1.39	y	44:58	- 1.30
123	Hexa	PCB-129	1.00	6.52e+05	1.17	y	45:12	- 0.82
124	Hexa	PCB-166	1.00	1.08e+06	1.25	y	45:40	- 1.18
125	Hexa	PCB-159	1.00	9.95e+05	1.26	y	46:00	- 1.09
126	Hexa	PCB-128/162	2.00	1.90e+06	1.35	y	46:17	- 1.04
127	Hexa	PCB-167	1.00	1.19e+06	1.26	y	46:40	- 1.21
128	Hexa	PCB-156	1.00	1.01e+06	1.15	y	47:59	- 1.09
129	Hexa	PCB-157	1.00	1.13e+06	1.24	y	48:15	- 1.16
130	Hexa	PCB-169	1.00	9.84e+05	1.29	y	50:19	- 1.07
131	Hepta	PCB-188	1.00	1.07e+06	1.08	y	42:44	- 1.66
132	Hepta	PCB-184	1.00	1.07e+06	1.01	y	43:12	- 1.66
133	Hepta	PCB-179	1.00	9.11e+05	1.11	y	43:58	- 1.41
134	Hepta	PCB-176	1.00	9.38e+05	1.19	y	44:27	- 1.46
135	Hepta	PCB-186	1.00	8.65e+05	1.07	y	45:04	- 1.34
136	Hepta	PCB-178	1.00	6.76e+05	1.13	y	45:32	- 1.05
137	Hepta	PCB-175	1.00	6.57e+05	1.07	y	45:54	- 1.02
138	Hepta	PCB-182/187	2.00	1.61e+06	1.10	y	46:04	- 1.25
139	Hepta	PCB-183	1.00	7.65e+05	1.02	y	46:23	- 1.19
140	Hepta	PCB-185	1.00	8.43e+05	0.96	y	47:03	- 1.68
141	Hepta	PCB-174	1.00	6.52e+05	1.02	y	47:25	- 1.30
142	Hepta	PCB-181	1.00	6.66e+05	1.08	y	47:31	- 1.33
143	Hepta	PCB-177	1.00	6.16e+05	1.08	y	47:42	- 1.23
144	Hepta	PCB-171	1.00	7.73e+05	0.96	y	47:59	- 1.54
145	Hepta	PCB-173	1.00	5.56e+05	0.90	y	48:25	- 1.11
146	Hepta	PCB-172	1.00	8.39e+05	1.07	y	48:52	- 1.67
147	Hepta	PCB-192	1.00	8.60e+05	1.06	y	49:04	- 1.71
148	Hepta	PCB-180	1.00	6.37e+05	0.90	y	49:15	- 1.27
149	Hepta	PCB-193	1.00	8.28e+05	1.14	y	49:27	- 1.65
150	Hepta	PCB-191	1.00	8.11e+05	1.07	y	49:42	- 1.62
151	Hepta	PCB-170	1.00	6.14e+05	0.96	y	50:41	- 1.53
152	Hepta	PCB-190	1.00	8.22e+05	1.03	y	50:50	- 2.04
153	Hepta	PCB-189	1.00	7.94e+05	1.03	y	52:07	- 1.50
154	Octa	PCB-202	1.00	6.55e+05	1.00	y	48:12	- 1.05
155	Octa	PCB-201	1.00	7.12e+05	0.86	y	48:42	- 1.14
156	Octa	PCB-204	1.00	6.82e+05	0.95	y	48:50	- 1.10
157	Octa	PCB-197	1.00	6.44e+05	0.88	y	49:08	- 1.04
158	Octa	PCB-200	1.00	6.28e+05	0.92	y	49:59	- 1.01
159	Octa	PCB-198	1.00	4.28e+05	0.78	y	51:15	- 0.69
160	Octa	PCB-199	1.00	5.35e+05	0.89	y	51:21	- 0.86
161	Octa	PCB-196/203	2.00	9.29e+05	0.93	y	51:37	- 0.75
162	Octa	PCB-195	1.00	6.48e+05	0.85	y	52:45	- 1.18
163	Octa	PCB-194	1.00	6.56e+05	0.96	y	53:38	- 1.19

164	Octa	PCB-205	1.00	8.69e+05	0.98	y	53:56	-	1.58
165	Nona	PCB-208	1.00	6.83e+05	1.14	y	52:54	-	0.92
166	Nona	PCB-207	1.00	7.94e+05	1.46	y	53:12	-	1.07
167	Nona	PCB-206	1.00	4.60e+05	1.50	y	55:20	-	1.03
168	Deca	PCB-209	1.00	4.74e+05	1.30	y	56:37	-	1.12
169	Tot ח	Total Mono-PCB	0.00	-	-	n	-	-	1.21
170	Tot ח	Total Di-PCB	0.00	-	-	n	-	-	1.18
171	Tot ח	Total Tri-PCB	0.00	-	-	n	-	-	1.08

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.23
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.10
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.16
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.24
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.87
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.08
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.40
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.93
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.31
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.00
182	Tot ╗	Total Deca-PCB	1.00	4.74e+05	1.30	y	56:37	-	1.12
183	Mono╗	13C-PCB-1	100.00	1.69e+08	3.26	y	16:23	-	0.92
184	Mono╗	13C-PCB-3	100.00	1.78e+08	3.34	y	18:53	-	0.97
185	Di-IS	13C-PCB-4	100.00	1.10e+08	1.59	y	20:11	-	0.60
186	Di-IS	13C-PCB-9	100.00	1.67e+08	1.58	y	21:54	-	0.91
187	Di-IS	13C-PCB-11	100.00	1.73e+08	1.56	y	25:13	-	0.94
188	Tri-╗	13C-PCB-19	100.00	1.03e+08	1.08	y	24:13	-	0.56
189	Tri-╗	13C-PCB-32	100.00	1.51e+08	1.08	y	27:05	-	0.82
190	Tri-╗	13C-PCB-28	100.00	1.49e+08	1.05	y	29:01	-	0.91
191	Tri-╗	13C-PCB-37	100.00	1.36e+08	1.07	y	32:51	-	0.84
192	Tetr╗	13C-PCB-54	100.00	1.25e+08	0.80	y	27:55	-	0.96
193	Tetr╗	13C-PCB-52	100.00	1.00e+08	0.79	y	31:24	-	0.77
194	Tetr╗	13C-PCB-47	100.00	1.04e+08	0.79	y	31:54	-	0.80
195	Tetr╗	13C-PCB-70	100.00	1.29e+08	0.80	y	35:24	-	0.99
196	Tetr╗	13C-PCB-80	100.00	1.33e+08	0.79	y	35:49	-	1.02
197	Tetr╗	13C-PCB-81	100.00	1.18e+08	0.79	y	38:55	-	0.91
198	Tetr╗	13C-PCB-77	100.00	1.20e+08	0.79	y	39:30	-	0.93
199	Pent╗	13C-PCB-104	100.00	9.09e+07	1.57	y	32:33	-	1.02
200	Pent╗	13C-PCB-95	100.00	6.52e+07	1.56	y	35:42	-	0.73
201	Pent╗	13C-PCB-101	100.00	7.00e+07	1.57	y	37:22	-	0.79
202	Pent╗	13C-PCB-97	100.00	6.28e+07	1.60	y	38:40	-	0.71
203	Pent╗	13C-PCB-123	100.00	8.04e+07	1.57	y	41:15	-	0.90
204	Pent╗	13C-PCB-118	100.00	8.60e+07	1.62	y	41:25	-	0.97
205	Pent╗	13C-PCB-114	100.00	9.51e+07	1.64	y	42:05	-	1.33
206	Pent╗	13C-PCB-105	100.00	9.62e+07	1.60	y	42:57	-	1.34
207	Pent╗	13C-PCB-127	100.00	1.06e+08	1.61	y	43:17	-	1.48
208	Pent╗	13C-PCB-126	100.00	9.30e+07	1.60	y	45:11	-	1.30
209	Hexa╗	13C-PCB-155	100.00	7.57e+07	1.27	y	36:55	-	0.85
210	Hexa╗	13C-PCB-153	100.00	8.33e+07	1.30	y	43:06	-	1.16
211	Hexa╗	13C-PCB-141	100.00	7.82e+07	1.28	y	43:50	-	1.09
212	Hexa	13C-PCB-138	100.00	7.98e+07	1.28	y	44:41	-	1.11
213	Hexa╗	13C-PCB-159	100.00	9.11e+07	1.28	y	45:59	-	1.27
214	Hexa╗	13C-PCB-167	100.00	9.84e+07	1.27	y	46:40	-	1.37
215	Hexa╗	13C-PCB-156	100.00	9.34e+07	1.28	y	47:58	-	1.30
216	Hexa╗	13C-PCB-157	100.00	9.73e+07	1.29	y	48:14	-	1.36
217	Hexa╗	13C-PCB-169	100.00	9.18e+07	1.27	y	50:19	-	1.28
218	Hept╗	13C-PCB-188	100.00	6.44e+07	0.46	y	42:44	-	0.90
219	Hept╗	13C-PCB-180	100.00	5.02e+07	0.46	y	49:15	-	0.70
220	Hept╗	13C-PCB-170	100.00	4.02e+07	0.48	y	50:40	-	0.56
221	Hept╗	13C-PCB-189	100.00	5.29e+07	0.47	y	52:06	-	0.74
222	Octa╗	13C-PCB-202	100.00	6.22e+07	0.90	y	48:10	-	0.87

223	Octa¬	13C-PCB-194	100.00	5.51e+07	0.92 y	53:37	-	0.81
224	Nona¬	13C-PCB-208	100.00	7.43e+07	0.77 y	52:53	-	1.09
225	Nona¬	13C-PCB-206	100.00	4.47e+07	0.79 y	55:19	-	0.66
226	Deca¬	13C-PCB-209	100.00	4.24e+07	1.24 y	56:36	-	0.62
227	DI-RS	13C-PCB-15	100.00	1.84e+08	1.57 y	25:54	-	1.00
228	Tri-¬	13C-PCB-31	100.00	1.63e+08	1.05 y	28:54	-	1.00
229	Tetr¬	13C-PCB-60	100.00	1.30e+08	0.80 y	36:39	-	1.00
230	Penta	13C-PCB-111	100.00	8.89e+07	1.60 y	39:06	-	1.00
231	Hexa¬	13C-PCB-128	100.00	7.17e+07	1.30 y	46:16	-	1.00
232	Octa¬	13C-PCB-205	100.00	6.82e+07	0.91 y	53:55	-	1.00

233	CRS		13C-PCB-79	100.00	1.32e+08	0.79 y	37:41	-	1.02
234	CRS		13C-PCB-178	100.00	4.49e+07	0.45 y	45:32	-	0.63
235	PS		13C-PCB-79	100.00	1.32e+08	0.79 y	37:41	-	1.12
236	PS		13C-PCB-178	100.00	4.49e+07	0.45 y	45:32	-	0.90

Filename: 140623E2 S: 3 Acquired: 23-JUN-14 13:49:52
Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
Sample text: ST140623E2-3 PCB CS2 14F1604

	Typ	Name	Amount	Resp	RA		RT	RF	RRF
1	Mono	PCB-1	2.50	4.75e+06	3.02	y	16:24	-	1.18
2	Mono	PCB-2	2.50	4.92e+06	2.98	y	18:41	-	1.16
3	Mono	PCB-3	2.50	5.82e+06	3.06	y	18:54	-	1.37
4	Di	PCB-4/10	10.00	1.63e+07	1.69	y	20:13	-	1.55
5	Di	PCB-7/9	10.00	1.91e+07	1.66	y	21:57	-	1.19
6	Di	PCB-6	5.00	1.05e+07	1.63	y	22:35	-	1.31
7	Di	PCB-5/8	10.00	1.85e+07	1.65	y	22:59	-	1.15
8	Di	PCB-14	5.00	9.28e+06	1.67	y	24:03	-	1.11
9	Di	PCB-11	5.00	8.97e+06	1.69	y	25:13	-	1.07
10	Di	PCB-12/13	10.00	1.98e+07	1.68	y	25:37	-	1.18
11	Di	PCB-15	5.00	1.05e+07	1.70	y	25:55	-	1.26
12	Tri	PCB-19	2.50	2.48e+06	1.07	y	24:14	-	1.01
13	Tri	PCB-30	2.50	4.07e+06	1.08	y	25:06	-	1.66
14	Tri	PCB-18	2.50	2.77e+06	1.08	y	25:50	-	0.79
15	Tri	PCB-17	2.50	3.32e+06	1.02	y	26:01	-	0.94
16	Tri	PCB-24/27	5.00	8.36e+06	1.04	y	26:35	-	1.19
17	Tri	PCB-16/32	5.00	6.64e+06	1.06	y	27:05	-	0.94
18	Tri	PCB-34	2.50	4.10e+06	1.00	y	27:52	-	1.13
19	Tri	PCB-23	2.50	4.41e+06	1.05	y	27:58	-	1.22
20	Tri	PCB-29	2.50	3.95e+06	1.06	y	28:13	-	1.09
21	Tri	PCB-26	2.50	4.58e+06	1.04	y	28:24	-	1.27
22	Tri	PCB-25	2.50	4.69e+06	1.09	y	28:35	-	1.30
23	Tri	PCB-31	2.50	4.94e+06	1.06	y	28:55	-	1.36
24	Tri	PCB-28	2.50	6.44e+06	1.05	y	29:02	-	1.78
25	Tri	PCB-20/21/33	7.50	1.21e+07	1.07	y	29:38	-	1.11
26	Tri	PCB-22	2.50	4.25e+06	1.06	y	30:04	-	1.17
27	Tri	PCB-36	2.50	3.41e+06	1.03	y	30:41	-	1.11
28	Tri	PCB-39	2.50	3.35e+06	1.04	y	31:09	-	1.09
29	Tri	PCB-38	2.50	3.81e+06	1.11	y	31:56	-	1.24
30	Tri	PCB-35	2.50	4.04e+06	1.02	y	32:26	-	1.31
31	Tri	PCB-37	2.50	3.84e+06	0.98	y	32:53	-	1.25
32	Tetra	PCB-54	2.50	3.28e+06	0.79	y	27:56	-	1.10
33	Tetra	PCB-50	2.50	2.75e+06	0.77	y	29:04	-	0.92
34	Tetra	PCB-53	2.50	2.52e+06	0.76	y	29:43	-	1.06
35	Tetra	PCB-51	2.50	2.31e+06	0.79	y	30:03	-	0.97
36	Tetra	PCB-45	2.50	1.97e+06	0.72	y	30:29	-	0.83
37	Tetra	PCB-46	2.50	1.95e+06	0.75	y	30:58	-	0.82
38	Tetra	PCB-52/69	5.00	6.07e+06	0.78	y	31:26	-	1.27
39	Tetra	PCB-73	2.50	3.40e+06	0.77	y	31:33	-	1.43
40	Tetra	PCB-43/49	5.00	4.57e+06	0.77	y	31:43	-	0.96
41	Tetra	PCB-47	2.50	2.67e+06	0.72	y	31:55	-	1.07

42	Tetra	PCB-48/75	5.00	6.04e+06	0.80 y	32:01	-	1.21
43	Tetra	PCB-65	2.50	3.21e+06	0.86 y	32:18	-	1.29
44	Tetra	PCB-62	2.50	3.13e+06	0.70 y	32:25	-	1.25
45	Tetra	PCB-44	2.50	2.09e+06	0.75 y	32:42	-	0.84
46	Tetra	PCB-42/59	5.00	5.38e+06	0.76 y	32:56	-	1.08
47	Tetra	PCB-41/64/71/72	10.00	1.16e+07	0.76 y	33:31	-	1.16
48	Tetra	PCB-68	2.50	3.30e+06	0.76 y	33:46	-	1.32
49	Tetra	PCB-40	2.50	1.74e+06	0.77 y	34:00	-	0.70
50	Tetra	PCB-57	2.50	3.04e+06	0.75 y	34:21	-	1.00
51	Tetra	PCB-67	2.50	3.37e+06	0.81 y	34:39	-	1.11
52	Tetra	PCB-58	2.50	2.87e+06	0.75 y	34:46	-	0.94

53	Tetra	PCB-63	2.50	2.77e+06	0.73	y	34:55	- 0.91
54	Tetra	PCB-74	2.50	3.80e+06	0.75	y	35:12	- 1.25
55	Tetra	PCB-61/70	5.00	5.98e+06	0.74	y	35:23	- 0.98
56	Tetra	PCB-76/66	5.00	6.31e+06	0.76	y	35:36	- 1.04
57	Tetra	PCB-80	2.50	3.85e+06	0.79	y	35:50	- 1.22
58	Tetra	PCB-55	2.50	3.37e+06	0.77	y	36:09	- 1.07
59	Tetra	PCB-56/60	5.00	6.58e+06	0.79	y	36:39	- 1.05
60	Tetra	PCB-79	2.50	3.55e+06	0.78	y	37:42	- 1.13
61	Tetra	PCB-78	2.50	3.58e+06	0.75	y	38:24	- 1.27
62	Tetra	PCB-81	2.50	3.64e+06	0.71	y	38:56	- 1.29
63	Tetra	PCB-77	2.50	3.13e+06	0.84	y	39:32	- 1.11
64	Penta	PCB-104	2.50	2.54e+06	1.55	y	32:34	- 1.20
65	Penta	PCB-96	2.50	2.37e+06	1.57	y	33:49	- 1.11
66	Penta	PCB-103	2.50	1.95e+06	1.62	y	34:21	- 0.92
67	Penta	PCB-100	2.50	1.89e+06	1.58	y	34:42	- 0.89
68	Penta	PCB-94	2.50	1.59e+06	1.56	y	35:10	- 1.03
69	Penta	PCB-95/98/102	7.50	5.65e+06	1.58	y	35:40	- 1.22
70	Penta	PCB-93	2.50	1.33e+06	1.59	y	35:48	- 0.86
71	Penta	PCB-88/91	5.00	3.54e+06	1.56	y	36:05	- 1.15
72	Penta	PCB-121	2.50	2.47e+06	1.61	y	36:11	- 1.61
73	Penta	PCB-84/92	5.00	3.35e+06	1.58	y	37:00	- 1.04
74	Penta	PCB-89	2.50	1.82e+06	1.44	y	37:13	- 1.13
75	Penta	PCB-90/101	5.00	3.61e+06	1.57	y	37:23	- 1.12
76	Penta	PCB-113	2.50	2.36e+06	1.55	y	37:38	- 1.46
77	Penta	PCB-99	2.50	2.05e+06	1.54	y	37:43	- 1.27
78	Penta	PCB-119	2.50	2.29e+06	1.50	y	38:11	- 1.54
79	Penta	PCB-108/112	5.00	3.72e+06	1.60	y	38:20	- 1.25
80	Penta	PCB-83	2.50	2.26e+06	1.63	y	38:30	- 1.52
81	Penta	PCB-97	2.50	1.70e+06	1.65	y	38:41	- 1.14
82	Penta	PCB-86	2.50	1.20e+06	1.61	y	38:50	- 0.81
83	Penta	PCB-87/117/125	7.50	6.65e+06	1.64	y	38:57	- 1.49
84	Penta	PCB-111/115	5.00	4.80e+06	1.62	y	39:08	- 1.61
85	Penta	PCB-85/116	5.00	3.77e+06	1.61	y	39:15	- 1.27
86	Penta	PCB-120	2.50	2.37e+06	1.56	y	39:29	- 1.60
87	Penta	PCB-110	2.50	2.32e+06	1.42	y	39:38	- 1.56
88	Penta	PCB-82	2.50	1.39e+06	1.53	y	40:16	- 0.74
89	Penta	PCB-124	2.50	2.74e+06	1.58	y	40:57	- 1.45
90	Penta	PCB-107/109	5.00	4.89e+06	1.55	y	41:05	- 1.29
91	Penta	PCB-123	2.50	2.23e+06	1.54	y	41:15	- 1.18
92	Penta	PCB-106/118	5.00	4.74e+06	1.58	y	41:27	- 1.19
93	Penta	PCB-114	2.50	3.01e+06	1.74	y	42:06	- 1.31
94	Penta	PCB-122	2.50	2.58e+06	1.66	y	42:14	- 1.12
95	Penta	PCB-105	2.50	3.03e+06	1.56	y	42:58	- 1.31
96	Penta	PCB-127	2.50	3.44e+06	1.56	y	43:18	- 1.37
97	Penta	PCB-126	2.50	2.65e+06	1.69	y	45:12	- 1.19
98	Hexa	PCB-155	2.50	1.95e+06	1.25	y	36:56	- 1.10
99	Hexa	PCB-150	2.50	1.74e+06	1.30	y	38:12	- 0.98
100	Hexa	PCB-152	2.50	1.99e+06	1.35	y	38:40	- 1.12
101	Hexa	PCB-145	2.50	2.09e+06	1.25	y	39:08	- 1.18
102	Hexa	PCB-136	2.50	2.08e+06	1.27	y	39:27	- 1.17

103	Hexa	PCB-148	2.50	1.31e+06	1.34 y	39:33	-	0.74
104	Hexa	PCB-154	2.50	1.55e+06	1.20 y	40:02	-	0.88
105	Hexa	PCB-151	2.50	1.29e+06	1.35 y	40:41	-	0.73
106	Hexa	PCB-135	2.50	1.24e+06	1.27 y	40:53	-	0.70
107	Hexa	PCB-144	2.50	1.35e+06	1.29 y	41:00	-	0.76
108	Hexa	PCB-147	2.50	1.38e+06	1.27 y	41:08	-	0.78
109	Hexa	PCB-139/149	5.00	2.58e+06	1.32 y	41:24	-	0.73
110	Hexa	PCB-140	2.50	1.29e+06	1.21 y	41:35	-	0.73
111	Hexa	PCB-134/143	5.00	3.48e+06	1.21 y	42:01	-	0.89
112	Hexa	PCB-133/142	5.00	3.10e+06	1.24 y	42:19	-	0.79
113	Hexa	PCB-131	2.50	1.76e+06	1.30 y	42:29	-	0.90

114	Hexa	PCB-146/165	5.00	4.77e+06	1.25	y	42:42	- 1.22
115	Hexa	PCB-132/161	5.00	4.19e+06	1.28	y	42:57	- 1.07
116	Hexa	PCB-153	2.50	2.42e+06	1.18	y	43:07	- 1.24
117	Hexa	PCB-168	2.50	2.79e+06	1.31	y	43:20	- 1.43
118	Hexa	PCB-141	2.50	1.92e+06	1.24	y	43:51	- 1.04
119	Hexa	PCB-137	2.50	1.90e+06	1.26	y	44:14	- 1.03
120	Hexa	PCB-130	2.50	1.82e+06	1.20	y	44:20	- 0.99
121	Hexa	PCB-138/163/164	7.50	7.26e+06	1.17	y	44:43	- 1.30
122	Hexa	PCB-158/160	5.00	5.17e+06	1.21	y	44:58	- 1.39
123	Hexa	PCB-129	2.50	1.61e+06	1.27	y	45:12	- 0.87
124	Hexa	PCB-166	2.50	2.51e+06	1.17	y	45:40	- 1.18
125	Hexa	PCB-159	2.50	2.37e+06	1.27	y	46:00	- 1.11
126	Hexa	PCB-128/162	5.00	4.28e+06	1.21	y	46:17	- 1.00
127	Hexa	PCB-167	2.50	2.79e+06	1.21	y	46:40	- 1.21
128	Hexa	PCB-156	2.50	2.59e+06	1.29	y	47:59	- 1.18
129	Hexa	PCB-157	2.50	2.63e+06	1.28	y	48:15	- 1.14
130	Hexa	PCB-169	2.50	2.41e+06	1.20	y	50:20	- 1.09
131	Hepta	PCB-188	2.50	2.41e+06	0.99	y	42:44	- 1.55
132	Hepta	PCB-184	2.50	2.63e+06	1.06	y	43:12	- 1.69
133	Hepta	PCB-179	2.50	2.01e+06	1.01	y	43:59	- 1.29
134	Hepta	PCB-176	2.50	2.25e+06	1.03	y	44:27	- 1.45
135	Hepta	PCB-186	2.50	2.12e+06	0.99	y	45:04	- 1.36
136	Hepta	PCB-178	2.50	1.70e+06	1.03	y	45:33	- 1.10
137	Hepta	PCB-175	2.50	1.56e+06	1.13	y	45:54	- 1.00
138	Hepta	PCB-182/187	5.00	3.83e+06	1.06	y	46:04	- 1.24
139	Hepta	PCB-183	2.50	1.88e+06	0.99	y	46:23	- 1.21
140	Hepta	PCB-185	2.50	2.14e+06	1.08	y	47:03	- 1.87
141	Hepta	PCB-174	2.50	1.52e+06	1.09	y	47:25	- 1.33
142	Hepta	PCB-181	2.50	1.64e+06	1.06	y	47:31	- 1.44
143	Hepta	PCB-177	2.50	1.46e+06	1.12	y	47:41	- 1.28
144	Hepta	PCB-171	2.50	1.80e+06	1.10	y	47:59	- 1.57
145	Hepta	PCB-173	2.50	1.30e+06	1.02	y	48:25	- 1.14
146	Hepta	PCB-172	2.50	1.89e+06	1.10	y	48:52	- 1.66
147	Hepta	PCB-192	2.50	2.02e+06	1.05	y	49:03	- 1.77
148	Hepta	PCB-180	2.50	1.56e+06	1.03	y	49:15	- 1.37
149	Hepta	PCB-193	2.50	1.90e+06	1.14	y	49:27	- 1.67
150	Hepta	PCB-191	2.50	1.95e+06	1.08	y	49:42	- 1.71
151	Hepta	PCB-170	2.50	1.48e+06	1.03	y	50:41	- 1.63
152	Hepta	PCB-190	2.50	2.08e+06	1.01	y	50:51	- 2.28
153	Hepta	PCB-189	2.50	1.87e+06	1.06	y	52:07	- 1.54
154	Octa	PCB-202	2.50	1.49e+06	0.93	y	48:11	- 1.05
155	Octa	PCB-201	2.50	1.64e+06	0.88	y	48:41	- 1.16
156	Octa	PCB-204	2.50	1.62e+06	0.92	y	48:51	- 1.14
157	Octa	PCB-197	2.50	1.49e+06	0.97	y	49:09	- 1.05
158	Octa	PCB-200	2.50	1.49e+06	0.95	y	49:59	- 1.05
159	Octa	PCB-198	2.50	1.08e+06	0.86	y	51:15	- 0.76
160	Octa	PCB-199	2.50	1.06e+06	0.98	y	51:22	- 0.75
161	Octa	PCB-196/203	5.00	2.18e+06	0.94	y	51:37	- 0.77
162	Octa	PCB-195	2.50	1.58e+06	0.94	y	52:46	- 1.24
163	Octa	PCB-194	2.50	1.51e+06	0.87	y	53:39	- 1.18

164	Octa	PCB-205	2.50	1.95e+06	0.91	y	53:56	-	1.53
165	Nona	PCB-208	2.50	1.57e+06	1.28	y	52:54	-	0.91
166	Nona	PCB-207	2.50	1.82e+06	1.42	y	53:13	-	1.05
167	Nona	PCB-206	2.50	1.03e+06	1.32	y	55:21	-	0.99
168	Deca	PCB-209	2.50	1.17e+06	1.22	y	56:39	-	1.17
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.24
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	1.20
171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.09

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.24
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.08
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.17
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.26
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.88
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.10
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.42
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.95
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.32
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	0.98
182	Tot ╗	Total Deca-PCB	2.50	1.17e+06	1.22	y	56:39	-	1.17
183	Mono╗	13C-PCB-1	100.00	1.61e+08	3.34	y	16:23	-	0.91
184	Mono╗	13C-PCB-3	100.00	1.70e+08	3.41	y	18:53	-	0.96
185	Di-IS	13C-PCB-4	100.00	1.05e+08	1.60	y	20:11	-	0.60
186	Di-IS	13C-PCB-9	100.00	1.61e+08	1.58	y	21:54	-	0.91
187	Di-IS	13C-PCB-11	100.00	1.68e+08	1.55	y	25:12	-	0.95
188	Tri-╗	13C-PCB-19	100.00	9.81e+07	1.09	y	24:13	-	0.56
189	Tri-╗	13C-PCB-32	100.00	1.41e+08	1.10	y	27:05	-	0.80
190	Tri-╗	13C-PCB-28	100.00	1.45e+08	1.05	y	29:00	-	0.93
191	Tri-╗	13C-PCB-37	100.00	1.23e+08	1.05	y	32:51	-	0.79
192	Tetr╗	13C-PCB-54	100.00	1.19e+08	0.80	y	27:55	-	0.97
193	Tetr╗	13C-PCB-52	100.00	9.54e+07	0.79	y	31:24	-	0.77
194	Tetr╗	13C-PCB-47	100.00	9.99e+07	0.78	y	31:53	-	0.81
195	Tetr╗	13C-PCB-70	100.00	1.22e+08	0.79	y	35:24	-	0.99
196	Tetr╗	13C-PCB-80	100.00	1.26e+08	0.79	y	35:48	-	1.02
197	Tetr╗	13C-PCB-81	100.00	1.13e+08	0.80	y	38:55	-	0.92
198	Tetr╗	13C-PCB-77	100.00	1.13e+08	0.81	y	39:31	-	0.92
199	Pent╗	13C-PCB-104	100.00	8.51e+07	1.58	y	32:33	-	1.01
200	Pent╗	13C-PCB-95	100.00	6.16e+07	1.60	y	35:42	-	0.73
201	Pent╗	13C-PCB-101	100.00	6.46e+07	1.61	y	37:22	-	0.77
202	Pent╗	13C-PCB-97	100.00	5.95e+07	1.56	y	38:40	-	0.71
203	Pent╗	13C-PCB-123	100.00	7.57e+07	1.60	y	41:14	-	0.90
204	Pent╗	13C-PCB-118	100.00	7.96e+07	1.58	y	41:25	-	0.95
205	Pent╗	13C-PCB-114	100.00	9.23e+07	1.63	y	42:05	-	1.35
206	Pent╗	13C-PCB-105	100.00	9.25e+07	1.61	y	42:57	-	1.36
207	Pent╗	13C-PCB-127	100.00	1.01e+08	1.61	y	43:17	-	1.48
208	Pent╗	13C-PCB-126	100.00	8.91e+07	1.60	y	45:11	-	1.31
209	Hexa╗	13C-PCB-155	100.00	7.08e+07	1.28	y	36:55	-	0.84
210	Hexa╗	13C-PCB-153	100.00	7.84e+07	1.29	y	43:06	-	1.15
211	Hexa╗	13C-PCB-141	100.00	7.40e+07	1.27	y	43:50	-	1.09
212	Hexa	13C-PCB-138	100.00	7.43e+07	1.26	y	44:41	-	1.09
213	Hexa╗	13C-PCB-159	100.00	8.52e+07	1.28	y	45:58	-	1.25
214	Hexa╗	13C-PCB-167	100.00	9.23e+07	1.29	y	46:40	-	1.35
215	Hexa╗	13C-PCB-156	100.00	8.80e+07	1.30	y	47:58	-	1.29
216	Hexa╗	13C-PCB-157	100.00	9.23e+07	1.29	y	48:14	-	1.35
217	Hexa╗	13C-PCB-169	100.00	8.83e+07	1.28	y	50:19	-	1.29
218	Hept╗	13C-PCB-188	100.00	6.20e+07	0.47	y	42:44	-	0.91
219	Hept╗	13C-PCB-180	100.00	4.56e+07	0.47	y	49:15	-	0.67
220	Hept╗	13C-PCB-170	100.00	3.64e+07	0.46	y	50:40	-	0.53
221	Hept╗	13C-PCB-189	100.00	4.86e+07	0.48	y	52:07	-	0.71
222	Octa╗	13C-PCB-202	100.00	5.66e+07	0.90	y	48:10	-	0.83

223	Octa¶	13C-PCB-194	100.00	5.12e+07	0.92	y	53:38	-	0.80
224	Nona¶	13C-PCB-208	100.00	6.94e+07	0.78	y	52:53	-	1.09
225	Nona¶	13C-PCB-206	100.00	4.16e+07	0.79	y	55:20	-	0.65
226	Deca¶	13C-PCB-209	100.00	3.99e+07	1.19	y	56:38	-	0.63
227	DI-RS	13C-PCB-15	100.00	1.76e+08	1.60	y	25:54	-	1.00
228	Tri-¶	13C-PCB-31	100.00	1.55e+08	1.05	y	28:54	-	1.00
229	Tetr¶	13C-PCB-60	100.00	1.23e+08	0.79	y	36:38	-	1.00
230	Penta	13C-PCB-111	100.00	8.39e+07	1.60	y	39:06	-	1.00
231	Hexa¶	13C-PCB-128	100.00	6.82e+07	1.27	y	46:16	-	1.00
232	Octa¶	13C-PCB-205	100.00	6.36e+07	0.91	y	53:55	-	1.00

233	CRS	13C-PCB-79	100.00	1.25e+08	0.79 y	37:41	-	1.02
234	CRS	13C-PCB-178	100.00	4.19e+07	0.47 y	45:32	-	0.61
235	PS	13C-PCB-79	100.00	1.25e+08	0.79 y	37:41	-	1.11
236	PS	13C-PCB-178	100.00	4.19e+07	0.47 y	45:32	-	0.92

Filename: 140623E2 S: 4 Acquired: 23-JUN-14 14:53:49
Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
Sample text: ST140623E2-4 PCB CS3 14F1302

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	50.00	9.40e+07	3.00 y	16:25	-	1.23
2	Mono	PCB-2	50.00	9.45e+07	3.01 y	18:41	-	1.23
3	Mono	PCB-3	50.00	1.13e+08	3.01 y	18:55	-	1.46
4	Di	PCB-4/10	200.00	3.27e+08	1.65 y	20:14	-	1.57
5	Di	PCB-7/9	200.00	3.82e+08	1.65 y	21:57	-	1.21
6	Di	PCB-6	100.00	2.07e+08	1.66 y	22:35	-	1.31
7	Di	PCB-5/8	200.00	3.65e+08	1.64 y	23:00	-	1.15
8	Di	PCB-14	100.00	1.87e+08	1.66 y	24:04	-	1.14
9	Di	PCB-11	100.00	1.81e+08	1.65 y	25:14	-	1.10
10	Di	PCB-12/13	200.00	3.92e+08	1.65 y	25:38	-	1.20
11	Di	PCB-15	100.00	2.11e+08	1.66 y	25:56	-	1.28
12	Tri	PCB-19	50.00	4.92e+07	1.05 y	24:15	-	1.04
13	Tri	PCB-30	50.00	7.99e+07	1.06 y	25:07	-	1.69
14	Tri	PCB-18	50.00	5.58e+07	1.05 y	25:51	-	0.80
15	Tri	PCB-17	50.00	6.48e+07	1.05 y	26:02	-	0.93
16	Tri	PCB-24/27	100.00	1.68e+08	1.05 y	26:36	-	1.20
17	Tri	PCB-16/32	100.00	1.31e+08	1.06 y	27:06	-	0.94
18	Tri	PCB-34	50.00	7.59e+07	1.03 y	27:52	-	1.09
19	Tri	PCB-23	50.00	8.55e+07	1.06 y	27:58	-	1.23
20	Tri	PCB-29	50.00	7.42e+07	1.04 y	28:13	-	1.06
21	Tri	PCB-26	50.00	8.24e+07	1.04 y	28:25	-	1.18
22	Tri	PCB-25	50.00	8.85e+07	1.06 y	28:34	-	1.27
23	Tri	PCB-31	50.00	8.65e+07	1.02 y	28:56	-	1.24
24	Tri	PCB-28	50.00	1.19e+08	1.04 y	29:02	-	1.70
25	Tri	PCB-20/21/33	150.00	2.26e+08	1.03 y	29:39	-	1.08
26	Tri	PCB-22	50.00	8.60e+07	1.04 y	30:05	-	1.23
27	Tri	PCB-36	50.00	7.12e+07	1.03 y	30:40	-	1.18
28	Tri	PCB-39	50.00	7.20e+07	1.02 y	31:09	-	1.20
29	Tri	PCB-38	50.00	7.37e+07	1.03 y	31:55	-	1.23
30	Tri	PCB-35	50.00	7.10e+07	1.03 y	32:26	-	1.18
31	Tri	PCB-37	50.00	7.16e+07	1.02 y	32:53	-	1.19
32	Tetra	PCB-54	50.00	6.73e+07	0.78 y	27:57	-	1.10
33	Tetra	PCB-50	50.00	5.38e+07	0.77 y	29:05	-	0.88
34	Tetra	PCB-53	50.00	5.23e+07	0.75 y	29:44	-	1.08
35	Tetra	PCB-51	50.00	4.77e+07	0.77 y	30:04	-	0.98
36	Tetra	PCB-45	50.00	4.32e+07	0.77 y	30:30	-	0.89
37	Tetra	PCB-46	50.00	4.05e+07	0.76 y	30:59	-	0.83
38	Tetra	PCB-52/69	100.00	1.24e+08	0.76 y	31:27	-	1.28
39	Tetra	PCB-73	50.00	6.71e+07	0.78 y	31:34	-	1.38
40	Tetra	PCB-43/49	100.00	9.43e+07	0.76 y	31:44	-	0.97
41	Tetra	PCB-47	50.00	5.35e+07	0.76 y	31:55	-	1.04

42	Tetra	PCB-48/75	100.00	1.20e+08	0.77 y	32:02	-	1.17
43	Tetra	PCB-65	50.00	6.30e+07	0.76 y	32:19	-	1.23
44	Tetra	PCB-62	50.00	5.58e+07	0.76 y	32:26	-	1.09
45	Tetra	PCB-44	50.00	4.12e+07	0.77 y	32:43	-	0.80
46	Tetra	PCB-42/59	100.00	1.11e+08	0.76 y	32:57	-	1.08
47	Tetra	PCB-41/64/71/72	200.00	2.33e+08	0.77 y	33:32	-	1.13
48	Tetra	PCB-68	50.00	6.63e+07	0.76 y	33:47	-	1.29
49	Tetra	PCB-40	50.00	3.48e+07	0.77 y	34:00	-	0.68
50	Tetra	PCB-57	50.00	6.06e+07	0.76 y	34:22	-	0.99
51	Tetra	PCB-67	50.00	6.65e+07	0.76 y	34:40	-	1.09
52	Tetra	PCB-58	50.00	5.67e+07	0.79 y	34:47	-	0.93

53	Tetra	PCB-63	50.00	5.70e+07	0.76 y	34:56	-	0.93
54	Tetra	PCB-74	50.00	7.34e+07	0.77 y	35:13	-	1.20
55	Tetra	PCB-61/70	100.00	1.16e+08	0.77 y	35:24	-	0.95
56	Tetra	PCB-76/66	100.00	1.26e+08	0.77 y	35:37	-	1.03
57	Tetra	PCB-80	50.00	7.72e+07	0.77 y	35:50	-	1.22
58	Tetra	PCB-55	50.00	6.84e+07	0.77 y	36:10	-	1.08
59	Tetra	PCB-56/60	100.00	1.27e+08	0.77 y	36:40	-	1.00
60	Tetra	PCB-79	50.00	6.79e+07	0.78 y	37:43	-	1.07
61	Tetra	PCB-78	50.00	6.97e+07	0.77 y	38:25	-	1.25
62	Tetra	PCB-81	50.00	7.20e+07	0.78 y	38:57	-	1.29
63	Tetra	PCB-77	50.00	6.19e+07	0.79 y	39:33	-	1.08
64	Penta	PCB-104	50.00	5.11e+07	1.57 y	32:35	-	1.20
65	Penta	PCB-96	50.00	4.80e+07	1.56 y	33:50	-	1.13
66	Penta	PCB-103	50.00	3.98e+07	1.56 y	34:22	-	0.93
67	Penta	PCB-100	50.00	3.93e+07	1.58 y	34:42	-	0.92
68	Penta	PCB-94	50.00	3.18e+07	1.55 y	35:11	-	1.02
69	Penta	PCB-95/98/102	150.00	1.14e+08	1.55 y	35:42	-	1.22
70	Penta	PCB-93	50.00	2.65e+07	1.58 y	35:48	-	0.85
71	Penta	PCB-88/91	100.00	7.03e+07	1.58 y	36:05	-	1.12
72	Penta	PCB-121	50.00	5.08e+07	1.60 y	36:12	-	1.62
73	Penta	PCB-84/92	100.00	6.82e+07	1.56 y	37:01	-	1.04
74	Penta	PCB-89	50.00	3.73e+07	1.58 y	37:14	-	1.14
75	Penta	PCB-90/101	100.00	7.26e+07	1.56 y	37:24	-	1.10
76	Penta	PCB-113	50.00	4.88e+07	1.57 y	37:39	-	1.49
77	Penta	PCB-99	50.00	4.19e+07	1.60 y	37:44	-	1.27
78	Penta	PCB-119	50.00	4.49e+07	1.56 y	38:12	-	1.52
79	Penta	PCB-108/112	100.00	7.56e+07	1.58 y	38:21	-	1.28
80	Penta	PCB-83	50.00	4.40e+07	1.57 y	38:31	-	1.49
81	Penta	PCB-97	50.00	3.44e+07	1.55 y	38:42	-	1.17
82	Penta	PCB-86	50.00	2.35e+07	1.55 y	38:51	-	0.80
83	Penta	PCB-87/117/125	150.00	1.40e+08	1.62 y	38:58	-	1.59
84	Penta	PCB-111/115	100.00	9.49e+07	1.51 y	39:08	-	1.61
85	Penta	PCB-85/116	100.00	7.71e+07	1.58 y	39:16	-	1.31
86	Penta	PCB-120	50.00	4.81e+07	1.59 y	39:30	-	1.63
87	Penta	PCB-110	50.00	4.58e+07	1.57 y	39:39	-	1.56
88	Penta	PCB-82	50.00	2.78e+07	1.55 y	40:17	-	0.76
89	Penta	PCB-124	50.00	5.28e+07	1.58 y	40:57	-	1.43
90	Penta	PCB-107/109	100.00	9.93e+07	1.59 y	41:05	-	1.35
91	Penta	PCB-123	50.00	4.35e+07	1.59 y	41:17	-	1.18
92	Penta	PCB-106/118	100.00	9.15e+07	1.59 y	41:28	-	1.17
93	Penta	PCB-114	50.00	6.12e+07	1.65 y	42:07	-	1.31
94	Penta	PCB-122	50.00	5.19e+07	1.66 y	42:15	-	1.11
95	Penta	PCB-105	50.00	5.88e+07	1.64 y	42:59	-	1.28
96	Penta	PCB-127	50.00	6.36e+07	1.67 y	43:19	-	1.27
97	Penta	PCB-126	50.00	5.32e+07	1.63 y	45:13	-	1.17
98	Hexa	PCB-155	50.00	3.92e+07	1.27 y	36:57	-	1.11
99	Hexa	PCB-150	50.00	3.54e+07	1.29 y	38:13	-	1.00
100	Hexa	PCB-152	50.00	3.90e+07	1.30 y	38:42	-	1.10
101	Hexa	PCB-145	50.00	4.21e+07	1.28 y	39:08	-	1.19
102	Hexa	PCB-136	50.00	4.09e+07	1.29 y	39:28	-	1.15

103	Hexa	PCB-148	50.00	2.62e+07	1.30	y	39:33	- 0.74
104	Hexa	PCB-154	50.00	2.94e+07	1.28	y	40:03	- 0.83
105	Hexa	PCB-151	50.00	2.53e+07	1.29	y	40:42	- 0.71
106	Hexa	PCB-135	50.00	2.73e+07	1.26	y	40:55	- 0.77
107	Hexa	PCB-144	50.00	2.52e+07	1.30	y	41:02	- 0.71
108	Hexa	PCB-147	50.00	2.80e+07	1.30	y	41:09	- 0.79
109	Hexa	PCB-139/149	100.00	5.22e+07	1.28	y	41:25	- 0.74
110	Hexa	PCB-140	50.00	2.47e+07	1.27	y	41:36	- 0.70
111	Hexa	PCB-134/143	100.00	7.05e+07	1.25	y	42:02	- 0.89
112	Hexa	PCB-133/142	100.00	6.32e+07	1.24	y	42:20	- 0.80
113	Hexa	PCB-131	50.00	3.53e+07	1.23	y	42:30	- 0.89

114	Hexa	PCB-146/165	100.00	9.72e+07	1.25 y	42:43	-	1.23
115	Hexa	PCB-132/161	100.00	8.58e+07	1.31 y	42:58	-	1.08
116	Hexa	PCB-153	50.00	4.86e+07	1.16 y	43:08	-	1.23
117	Hexa	PCB-168	50.00	5.75e+07	1.25 y	43:21	-	1.45
118	Hexa	PCB-141	50.00	3.94e+07	1.24 y	43:52	-	1.06
119	Hexa	PCB-137	50.00	3.90e+07	1.23 y	44:15	-	1.05
120	Hexa	PCB-130	50.00	3.61e+07	1.23 y	44:21	-	0.97
121	Hexa	PCB-138/163/164	150.00	1.47e+08	1.24 y	44:44	-	1.27
122	Hexa	PCB-158/160	100.00	1.03e+08	1.23 y	44:59	-	1.34
123	Hexa	PCB-129	50.00	3.23e+07	1.24 y	45:13	-	0.84
124	Hexa	PCB-166	50.00	4.98e+07	1.24 y	45:41	-	1.17
125	Hexa	PCB-159	50.00	4.70e+07	1.23 y	46:01	-	1.11
126	Hexa	PCB-128/162	100.00	8.65e+07	1.23 y	46:18	-	1.02
127	Hexa	PCB-167	50.00	5.55e+07	1.22 y	46:41	-	1.20
128	Hexa	PCB-156	50.00	5.05e+07	1.25 y	48:00	-	1.14
129	Hexa	PCB-157	50.00	5.18e+07	1.24 y	48:16	-	1.13
130	Hexa	PCB-169	50.00	4.66e+07	1.27 y	50:20	-	1.08
131	Hepta	PCB-188	50.00	4.99e+07	1.05 y	42:46	-	1.56
132	Hepta	PCB-184	50.00	5.13e+07	1.06 y	43:13	-	1.60
133	Hepta	PCB-179	50.00	4.15e+07	1.06 y	44:00	-	1.30
134	Hepta	PCB-176	50.00	4.68e+07	1.04 y	44:28	-	1.46
135	Hepta	PCB-186	50.00	4.64e+07	1.05 y	45:05	-	1.45
136	Hepta	PCB-178	50.00	3.27e+07	1.05 y	45:34	-	1.02
137	Hepta	PCB-175	50.00	3.22e+07	1.05 y	45:55	-	1.01
138	Hepta	PCB-182/187	100.00	7.77e+07	1.05 y	46:05	-	1.21
139	Hepta	PCB-183	50.00	3.68e+07	1.05 y	46:24	-	1.15
140	Hepta	PCB-185	50.00	4.12e+07	1.07 y	47:04	-	1.78
141	Hepta	PCB-174	50.00	3.30e+07	1.02 y	47:26	-	1.42
142	Hepta	PCB-181	50.00	3.14e+07	1.06 y	47:33	-	1.36
143	Hepta	PCB-177	50.00	2.91e+07	1.05 y	47:42	-	1.26
144	Hepta	PCB-171	50.00	3.69e+07	1.07 y	48:00	-	1.59
145	Hepta	PCB-173	50.00	2.61e+07	1.04 y	48:26	-	1.13
146	Hepta	PCB-172	50.00	3.80e+07	1.07 y	48:53	-	1.64
147	Hepta	PCB-192	50.00	4.11e+07	1.06 y	49:04	-	1.78
148	Hepta	PCB-180	50.00	3.12e+07	1.05 y	49:17	-	1.35
149	Hepta	PCB-193	50.00	3.98e+07	1.07 y	49:27	-	1.72
150	Hepta	PCB-191	50.00	3.90e+07	1.07 y	49:42	-	1.68
151	Hepta	PCB-170	50.00	2.97e+07	1.05 y	50:41	-	1.62
152	Hepta	PCB-190	50.00	4.08e+07	1.06 y	50:51	-	2.23
153	Hepta	PCB-189	50.00	3.71e+07	1.05 y	52:08	-	1.55
154	Octa	PCB-202	50.00	3.01e+07	0.94 y	48:12	-	1.06
155	Octa	PCB-201	50.00	3.19e+07	0.91 y	48:41	-	1.13
156	Octa	PCB-204	50.00	3.22e+07	0.91 y	48:50	-	1.14
157	Octa	PCB-197	50.00	3.03e+07	0.91 y	49:09	-	1.07
158	Octa	PCB-200	50.00	3.01e+07	0.90 y	49:59	-	1.06
159	Octa	PCB-198	50.00	2.18e+07	0.92 y	51:15	-	0.77
160	Octa	PCB-199	50.00	2.16e+07	0.91 y	51:21	-	0.76
161	Octa	PCB-196/203	100.00	4.53e+07	0.92 y	51:36	-	0.80
162	Octa	PCB-195	50.00	3.20e+07	0.89 y	52:45	-	1.24
163	Octa	PCB-194	50.00	3.08e+07	0.92 y	53:37	-	1.19

164	Octa	PCB-205	50.00	3.93e+07	0.92	y	53:55	-	1.52
165	Nona	PCB-208	50.00	3.24e+07	1.34	y	52:53	-	0.92
166	Nona	PCB-207	50.00	3.78e+07	1.32	y	53:12	-	1.08
167	Nona	PCB-206	50.00	2.13e+07	1.36	y	55:20	-	1.01
168	Deca	PCB-209	50.00	2.30e+07	1.21	y	56:38	-	1.20
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.31
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	1.21
171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.10

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.21
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.06
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.18
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.23
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.88
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.09
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.41
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.96
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.32
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.00
182	Tot ╗	Total Deca-PCB	50.00	2.30e+07	1.21	y	56:38	-	1.20
183	Mono╗	13C-PCB-1	100.00	1.53e+08	3.37	y	16:24	-	0.86
184	Mono╗	13C-PCB-3	100.00	1.54e+08	3.41	y	18:54	-	0.86
185	Di-IS	13C-PCB-4	100.00	1.04e+08	1.58	y	20:11	-	0.59
186	Di-IS	13C-PCB-9	100.00	1.59e+08	1.59	y	21:55	-	0.89
187	Di-IS	13C-PCB-11	100.00	1.64e+08	1.57	y	25:13	-	0.92
188	Tri-╗	13C-PCB-19	100.00	9.46e+07	1.07	y	24:14	-	0.53
189	Tri-╗	13C-PCB-32	100.00	1.39e+08	1.09	y	27:06	-	0.78
190	Tri-╗	13C-PCB-28	100.00	1.40e+08	1.06	y	29:01	-	0.92
191	Tri-╗	13C-PCB-37	100.00	1.20e+08	1.07	y	32:52	-	0.79
192	Tetr╗	13C-PCB-54	100.00	1.23e+08	0.81	y	27:55	-	0.98
193	Tetr╗	13C-PCB-52	100.00	9.72e+07	0.80	y	31:24	-	0.78
194	Tetr╗	13C-PCB-47	100.00	1.02e+08	0.79	y	31:54	-	0.82
195	Tetr╗	13C-PCB-70	100.00	1.22e+08	0.78	y	35:25	-	0.98
196	Tetr╗	13C-PCB-80	100.00	1.27e+08	0.80	y	35:49	-	1.01
197	Tetr╗	13C-PCB-81	100.00	1.12e+08	0.79	y	38:56	-	0.89
198	Tetr╗	13C-PCB-77	100.00	1.14e+08	0.78	y	39:32	-	0.91
199	Pent╗	13C-PCB-104	100.00	8.52e+07	1.57	y	32:34	-	1.00
200	Pent╗	13C-PCB-95	100.00	6.27e+07	1.59	y	35:43	-	0.74
201	Pent╗	13C-PCB-101	100.00	6.57e+07	1.54	y	37:23	-	0.77
202	Pent╗	13C-PCB-97	100.00	5.89e+07	1.59	y	38:42	-	0.69
203	Pent╗	13C-PCB-123	100.00	7.37e+07	1.61	y	41:15	-	0.87
204	Pent╗	13C-PCB-118	100.00	7.79e+07	1.58	y	41:26	-	0.92
205	Pent╗	13C-PCB-114	100.00	9.33e+07	1.60	y	42:06	-	1.35
206	Pent╗	13C-PCB-105	100.00	9.17e+07	1.60	y	42:58	-	1.32
207	Pent╗	13C-PCB-127	100.00	1.00e+08	1.57	y	43:17	-	1.45
208	Pent╗	13C-PCB-126	100.00	9.05e+07	1.58	y	45:12	-	1.31
209	Hexa╗	13C-PCB-155	100.00	7.08e+07	1.29	y	36:55	-	0.83
210	Hexa╗	13C-PCB-153	100.00	7.92e+07	1.29	y	43:07	-	1.14
211	Hexa╗	13C-PCB-141	100.00	7.45e+07	1.28	y	43:51	-	1.07
212	Hexa	13C-PCB-138	100.00	7.71e+07	1.29	y	44:42	-	1.11
213	Hexa╗	13C-PCB-159	100.00	8.48e+07	1.27	y	45:59	-	1.22
214	Hexa╗	13C-PCB-167	100.00	9.22e+07	1.30	y	46:40	-	1.33
215	Hexa╗	13C-PCB-156	100.00	8.85e+07	1.29	y	47:58	-	1.28
216	Hexa╗	13C-PCB-157	100.00	9.20e+07	1.29	y	48:15	-	1.33
217	Hexa╗	13C-PCB-169	100.00	8.62e+07	1.27	y	50:19	-	1.24
218	Hept╗	13C-PCB-188	100.00	6.40e+07	0.46	y	42:45	-	0.92
219	Hept╗	13C-PCB-180	100.00	4.63e+07	0.47	y	49:15	-	0.67
220	Hept╗	13C-PCB-170	100.00	3.66e+07	0.47	y	50:40	-	0.53
221	Hept╗	13C-PCB-189	100.00	4.78e+07	0.47	y	52:07	-	0.69
222	Octa╗	13C-PCB-202	100.00	5.65e+07	0.94	y	48:11	-	0.81

223	Octa╕	13C-PCB-194	100.00	5.16e+07	0.92 y	53:36	-	0.79
224	Nona╕	13C-PCB-208	100.00	7.00e+07	0.78 y	52:53	-	1.08
225	Nona╕	13C-PCB-206	100.00	4.23e+07	0.78 y	55:19	-	0.65
226	Deca╕	13C-PCB-209	100.00	3.85e+07	1.23 y	56:37	-	0.59
227	DI-RS	13C-PCB-15	100.00	1.78e+08	1.59 y	25:55	-	1.00
228	Tri-╕	13C-PCB-31	100.00	1.52e+08	1.05 y	28:55	-	1.00
229	Tetr╕	13C-PCB-60	100.00	1.25e+08	0.79 y	36:39	-	1.00
230	Penta	13C-PCB-111	100.00	8.51e+07	1.57 y	39:07	-	1.00
231	Hexa╕	13C-PCB-128	100.00	6.93e+07	1.27 y	46:16	-	1.00
232	Octa╕	13C-PCB-205	100.00	6.51e+07	0.91 y	53:54	-	1.00

233	CRS		13C-PCB-79	100.00	1.25e+08	0.79	y	37:42	- 1.00
234	CRS		13C-PCB-178	100.00	4.30e+07	0.46	y	45:33	- 0.62
235	PS		13C-PCB-79	100.00	1.25e+08	0.79	y	37:42	- 1.12
236	PS		13C-PCB-178	100.00	4.30e+07	0.46	y	45:33	- 0.93

Filename: 140623E2 S: 5 Acquired: 23-JUN-14 15:57:45
Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
Sample text: ST140623E2-5 PCB CS4 14F1605

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	400.00	7.39e+08	3.02 y	16:25	-	1.29
2	Mono	PCB-2	400.00	7.73e+08	3.00 y	18:41	-	1.28
3	Mono	PCB-3	400.00	9.04e+08	3.01 y	18:55	-	1.49
4	Di	PCB-4/10	1600.00	2.74e+09	1.64 y	20:14	-	1.60
5	Di	PCB-7/9	1600.00	3.22e+09	1.65 y	21:58	-	1.22
6	Di	PCB-6	800.00	1.77e+09	1.65 y	22:36	-	1.34
7	Di	PCB-5/8	1600.00	3.07e+09	1.65 y	23:01	-	1.16
8	Di	PCB-14	800.00	1.56e+09	1.66 y	24:04	-	1.12
9	Di	PCB-11	800.00	1.52e+09	1.66 y	25:15	-	1.09
10	Di	PCB-12/13	1600.00	3.35e+09	1.64 y	25:37	-	1.20
11	Di	PCB-15	800.00	1.81e+09	1.65 y	25:56	-	1.30
12	Tri	PCB-19	400.00	3.88e+08	1.06 y	24:15	-	1.07
13	Tri	PCB-30	400.00	6.46e+08	1.07 y	25:08	-	1.79
14	Tri	PCB-18	400.00	4.49e+08	1.07 y	25:51	-	0.78
15	Tri	PCB-17	400.00	5.20e+08	1.07 y	26:02	-	0.91
16	Tri	PCB-24/27	800.00	1.36e+09	1.07 y	26:36	-	1.18
17	Tri	PCB-16/32	800.00	1.07e+09	1.06 y	27:06	-	0.94
18	Tri	PCB-34	400.00	6.31e+08	1.04 y	27:53	-	1.16
19	Tri	PCB-23	400.00	6.73e+08	1.03 y	27:58	-	1.24
20	Tri	PCB-29	400.00	5.51e+08	1.00 y	28:13	-	1.01
21	Tri	PCB-26	400.00	6.09e+08	1.01 y	28:26	-	1.12
22	Tri	PCB-25	400.00	6.81e+08	1.01 y	28:35	-	1.25
23	Tri	PCB-31	400.00	6.90e+08	1.00 y	28:56	-	1.27
24	Tri	PCB-28	400.00	8.88e+08	1.03 y	29:02	-	1.63
25	Tri	PCB-20/21/33	1200.00	1.80e+09	1.00 y	29:38	-	1.11
26	Tri	PCB-22	400.00	5.78e+08	1.01 y	30:06	-	1.06
27	Tri	PCB-36	400.00	5.30e+08	1.01 y	30:41	-	1.05
28	Tri	PCB-39	400.00	4.63e+08	0.99 y	31:09	-	0.92
29	Tri	PCB-38	400.00	5.20e+08	1.00 y	31:56	-	1.03
30	Tri	PCB-35	400.00	5.75e+08	0.99 y	32:27	-	1.15
31	Tri	PCB-37	400.00	5.64e+08	1.01 y	32:53	-	1.12
32	Tetra	PCB-54	400.00	5.49e+08	0.77 y	27:57	-	1.09
33	Tetra	PCB-50	400.00	4.32e+08	0.76 y	29:05	-	0.86
34	Tetra	PCB-53	400.00	4.28e+08	0.76 y	29:44	-	1.09
35	Tetra	PCB-51	400.00	3.77e+08	0.76 y	30:04	-	0.96
36	Tetra	PCB-45	400.00	3.32e+08	0.76 y	30:30	-	0.84
37	Tetra	PCB-46	400.00	3.25e+08	0.77 y	30:59	-	0.83
38	Tetra	PCB-52/69	800.00	9.79e+08	0.75 y	31:27	-	1.25
39	Tetra	PCB-73	400.00	5.09e+08	0.76 y	31:34	-	1.30
40	Tetra	PCB-43/49	800.00	7.49e+08	0.75 y	31:43	-	0.95
41	Tetra	PCB-47	400.00	4.38e+08	0.76 y	31:56	-	1.04

42	Tetra	PCB-48/75	800.00	9.87e+08	0.76	y	32:03	- 1.17
43	Tetra	PCB-65	400.00	4.70e+08	0.75	y	32:19	- 1.12
44	Tetra	PCB-62	400.00	5.15e+08	0.76	y	32:25	- 1.22
45	Tetra	PCB-44	400.00	3.32e+08	0.76	y	32:44	- 0.79
46	Tetra	PCB-42/59	800.00	9.34e+08	0.76	y	32:57	- 1.11
47	Tetra	PCB-41/64/71/72	1600.00	2.01e+09	0.77	y	33:32	- 1.19
48	Tetra	PCB-68	400.00	5.53e+08	0.76	y	33:47	- 1.31
49	Tetra	PCB-40	400.00	2.93e+08	0.77	y	34:01	- 0.69
50	Tetra	PCB-57	400.00	4.98e+08	0.76	y	34:21	- 0.96
51	Tetra	PCB-67	400.00	5.63e+08	0.76	y	34:40	- 1.09
52	Tetra	PCB-58	400.00	4.58e+08	0.78	y	34:47	- 0.88

53	Tetra	PCB-63	400.00	4.57e+08	0.76	y	34:56	- 0.88
54	Tetra	PCB-74	400.00	6.33e+08	0.76	y	35:14	- 1.23
55	Tetra	PCB-61/70	800.00	9.54e+08	0.76	y	35:24	- 0.92
56	Tetra	PCB-76/66	800.00	1.06e+09	0.77	y	35:37	- 1.03
57	Tetra	PCB-80	400.00	6.36e+08	0.77	y	35:51	- 1.18
58	Tetra	PCB-55	400.00	5.68e+08	0.76	y	36:10	- 1.05
59	Tetra	PCB-56/60	800.00	1.04e+09	0.76	y	36:40	- 0.97
60	Tetra	PCB-79	400.00	5.59e+08	0.77	y	37:44	- 1.04
61	Tetra	PCB-78	400.00	5.77e+08	0.76	y	38:26	- 1.20
62	Tetra	PCB-81	400.00	6.11e+08	0.76	y	38:58	- 1.27
63	Tetra	PCB-77	400.00	5.41e+08	0.79	y	39:33	- 1.07
64	Penta	PCB-104	400.00	4.22e+08	1.58	y	32:35	- 1.19
65	Penta	PCB-96	400.00	4.08e+08	1.59	y	33:51	- 1.16
66	Penta	PCB-103	400.00	3.36e+08	1.56	y	34:23	- 0.95
67	Penta	PCB-100	400.00	3.34e+08	1.58	y	34:43	- 0.95
68	Penta	PCB-94	400.00	2.70e+08	1.58	y	35:11	- 1.00
69	Penta	PCB-95/98/102	1200.00	9.97e+08	1.58	y	35:41	- 1.23
70	Penta	PCB-93	400.00	2.10e+08	1.55	y	35:49	- 0.77
71	Penta	PCB-88/91	800.00	6.29e+08	1.54	y	36:06	- 1.16
72	Penta	PCB-121	400.00	4.11e+08	1.62	y	36:13	- 1.52
73	Penta	PCB-84/92	800.00	5.85e+08	1.57	y	37:02	- 1.04
74	Penta	PCB-89	400.00	3.12e+08	1.58	y	37:13	- 1.11
75	Penta	PCB-90/101	800.00	6.09e+08	1.57	y	37:23	- 1.08
76	Penta	PCB-113	400.00	3.62e+08	1.56	y	37:38	- 1.29
77	Penta	PCB-99	400.00	4.00e+08	1.57	y	37:44	- 1.42
78	Penta	PCB-119	400.00	3.82e+08	1.57	y	38:12	- 1.53
79	Penta	PCB-108/112	800.00	6.45e+08	1.57	y	38:21	- 1.29
80	Penta	PCB-83	400.00	3.69e+08	1.56	y	38:31	- 1.48
81	Penta	PCB-97	400.00	2.93e+08	1.58	y	38:43	- 1.17
82	Penta	PCB-86	400.00	2.07e+08	1.53	y	38:52	- 0.83
83	Penta	PCB-87/117/125	1200.00	1.19e+09	1.57	y	38:59	- 1.59
84	Penta	PCB-111/115	800.00	8.24e+08	1.65	y	39:09	- 1.65
85	Penta	PCB-85/116	800.00	6.56e+08	1.48	y	39:17	- 1.31
86	Penta	PCB-120	400.00	4.25e+08	1.57	y	39:30	- 1.70
87	Penta	PCB-110	400.00	3.85e+08	1.58	y	39:40	- 1.54
88	Penta	PCB-82	400.00	2.39e+08	1.57	y	40:17	- 0.76
89	Penta	PCB-124	400.00	4.72e+08	1.57	y	40:57	- 1.51
90	Penta	PCB-107/109	800.00	8.57e+08	1.57	y	41:06	- 1.37
91	Penta	PCB-123	400.00	3.63e+08	1.58	y	41:16	- 1.16
92	Penta	PCB-106/118	800.00	7.95e+08	1.58	y	41:29	- 1.15
93	Penta	PCB-114	400.00	5.21e+08	1.63	y	42:07	- 1.28
94	Penta	PCB-122	400.00	4.51e+08	1.65	y	42:16	- 1.11
95	Penta	PCB-105	400.00	5.21e+08	1.62	y	42:59	- 1.28
96	Penta	PCB-127	400.00	5.57e+08	1.64	y	43:19	- 1.28
97	Penta	PCB-126	400.00	4.53e+08	1.65	y	45:14	- 1.18
98	Hexa	PCB-155	400.00	3.27e+08	1.28	y	36:57	- 1.11
99	Hexa	PCB-150	400.00	3.03e+08	1.28	y	38:13	- 1.03
100	Hexa	PCB-152	400.00	3.29e+08	1.27	y	38:42	- 1.12
101	Hexa	PCB-145	400.00	3.63e+08	1.28	y	39:09	- 1.23
102	Hexa	PCB-136	400.00	3.55e+08	1.28	y	39:28	- 1.21

103	Hexa	PCB-148	400.00	2.11e+08	1.30 y	39:34	-	0.72
104	Hexa	PCB-154	400.00	2.46e+08	1.28 y	40:03	-	0.83
105	Hexa	PCB-151	400.00	2.09e+08	1.29 y	40:42	-	0.71
106	Hexa	PCB-135	400.00	2.14e+08	1.26 y	40:55	-	0.73
107	Hexa	PCB-144	400.00	2.42e+08	1.27 y	41:01	-	0.82
108	Hexa	PCB-147	400.00	2.44e+08	1.29 y	41:09	-	0.83
109	Hexa	PCB-139/149	800.00	4.56e+08	1.27 y	41:25	-	0.77
110	Hexa	PCB-140	400.00	2.10e+08	1.30 y	41:37	-	0.71
111	Hexa	PCB-134/143	800.00	6.18e+08	1.24 y	42:03	-	0.94
112	Hexa	PCB-133/142	800.00	5.46e+08	1.24 y	42:20	-	0.83
113	Hexa	PCB-131	400.00	2.97e+08	1.24 y	42:31	-	0.90

114	Hexa	PCB-146/165	800.00	8.31e+08	1.24	y	42:43	- 1.26
115	Hexa	PCB-132/161	800.00	7.22e+08	1.24	y	42:58	- 1.09
116	Hexa	PCB-153	400.00	4.21e+08	1.25	y	43:08	- 1.27
117	Hexa	PCB-168	400.00	4.88e+08	1.24	y	43:20	- 1.48
118	Hexa	PCB-141	400.00	3.29e+08	1.24	y	43:53	- 1.05
119	Hexa	PCB-137	400.00	3.31e+08	1.24	y	44:16	- 1.06
120	Hexa	PCB-130	400.00	3.00e+08	1.24	y	44:22	- 0.96
121	Hexa	PCB-138/163/164	1200.00	1.27e+09	1.25	y	44:45	- 1.31
122	Hexa	PCB-158/160	800.00	8.83e+08	1.24	y	45:00	- 1.37
123	Hexa	PCB-129	400.00	2.76e+08	1.24	y	45:14	- 0.86
124	Hexa	PCB-166	400.00	4.30e+08	1.24	y	45:41	- 1.18
125	Hexa	PCB-159	400.00	4.02e+08	1.27	y	46:00	- 1.10
126	Hexa	PCB-128/162	800.00	7.56e+08	1.24	y	46:18	- 1.03
127	Hexa	PCB-167	400.00	4.81e+08	1.24	y	46:41	- 1.19
128	Hexa	PCB-156	400.00	4.44e+08	1.24	y	47:59	- 1.16
129	Hexa	PCB-157	400.00	4.52e+08	1.25	y	48:16	- 1.12
130	Hexa	PCB-169	400.00	4.05e+08	1.24	y	50:20	- 1.07
131	Hepta	PCB-188	400.00	4.10e+08	1.06	y	42:46	- 1.52
132	Hepta	PCB-184	400.00	4.29e+08	1.05	y	43:13	- 1.60
133	Hepta	PCB-179	400.00	3.39e+08	1.06	y	44:01	- 1.26
134	Hepta	PCB-176	400.00	3.89e+08	1.05	y	44:28	- 1.45
135	Hepta	PCB-186	400.00	3.92e+08	1.05	y	45:05	- 1.46
136	Hepta	PCB-178	400.00	2.70e+08	1.06	y	45:34	- 1.00
137	Hepta	PCB-175	400.00	2.66e+08	1.05	y	45:55	- 0.99
138	Hepta	PCB-182/187	800.00	6.75e+08	1.05	y	46:06	- 1.26
139	Hepta	PCB-183	400.00	3.18e+08	1.06	y	46:24	- 1.18
140	Hepta	PCB-185	400.00	3.60e+08	1.05	y	47:05	- 1.82
141	Hepta	PCB-174	400.00	2.91e+08	1.05	y	47:26	- 1.47
142	Hepta	PCB-181	400.00	2.68e+08	1.07	y	47:33	- 1.35
143	Hepta	PCB-177	400.00	2.53e+08	1.05	y	47:43	- 1.28
144	Hepta	PCB-171	400.00	3.19e+08	1.05	y	48:00	- 1.61
145	Hepta	PCB-173	400.00	2.24e+08	1.05	y	48:27	- 1.13
146	Hepta	PCB-172	400.00	3.36e+08	1.06	y	48:53	- 1.70
147	Hepta	PCB-192	400.00	3.55e+08	1.05	y	49:05	- 1.79
148	Hepta	PCB-180	400.00	2.65e+08	1.05	y	49:16	- 1.34
149	Hepta	PCB-193	400.00	3.34e+08	1.06	y	49:28	- 1.69
150	Hepta	PCB-191	400.00	3.32e+08	1.06	y	49:42	- 1.67
151	Hepta	PCB-170	400.00	2.49e+08	1.04	y	50:42	- 1.61
152	Hepta	PCB-190	400.00	3.45e+08	1.05	y	50:51	- 2.23
153	Hepta	PCB-189	400.00	3.17e+08	1.06	y	52:08	- 1.55
154	Octa	PCB-202	400.00	2.60e+08	0.91	y	48:13	- 1.10
155	Octa	PCB-201	400.00	2.75e+08	0.90	y	48:42	- 1.16
156	Octa	PCB-204	400.00	2.80e+08	0.91	y	48:51	- 1.18
157	Octa	PCB-197	400.00	2.59e+08	0.92	y	49:09	- 1.09
158	Octa	PCB-200	400.00	2.59e+08	0.91	y	49:59	- 1.09
159	Octa	PCB-198	400.00	1.81e+08	1.01	y	51:16	- 0.76
160	Octa	PCB-199	400.00	1.96e+08	0.84	y	51:21	- 0.82
161	Octa	PCB-196/203	800.00	4.10e+08	0.91	y	51:37	- 0.86
162	Octa	PCB-195	400.00	2.74e+08	0.91	y	52:46	- 1.25
163	Octa	PCB-194	400.00	2.60e+08	0.92	y	53:38	- 1.18

164	Octa	PCB-205	400.00	3.32e+08	0.92	y	53:55	-	1.51
165	Nona	PCB-208	400.00	2.75e+08	1.33	y	52:54	-	0.94
166	Nona	PCB-207	400.00	3.26e+08	1.32	y	53:12	-	1.12
167	Nona	PCB-206	400.00	1.78e+08	1.32	y	55:19	-	0.97
168	Deca	PCB-209	400.00	2.00e+08	1.19	y	56:35	-	1.17
169	Tot ╗	Total Mono-PCB	0.00	-	-	n	-	-	1.35
170	Tot ╗	Total Di-PCB	0.00	-	-	n	-	-	1.22
171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.10

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.15
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.06
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.18
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.23
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.90
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.11
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.41
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.99
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.32
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.02
182	Tot ╗	Total Deca-PCB	400.00	2.00e+08	1.19	y	56:35	-	1.17
183	Mono╗	13C-PCB-1	100.00	1.43e+08	3.35	y	16:24	-	0.77
184	Mono╗	13C-PCB-3	100.00	1.51e+08	3.41	y	18:54	-	0.81
185	Di-IS	13C-PCB-4	100.00	1.07e+08	1.60	y	20:12	-	0.57
186	Di-IS	13C-PCB-9	100.00	1.65e+08	1.57	y	21:55	-	0.88
187	Di-IS	13C-PCB-11	100.00	1.74e+08	1.58	y	25:13	-	0.93
188	Tri-╗	13C-PCB-19	100.00	9.04e+07	1.10	y	24:14	-	0.48
189	Tri-╗	13C-PCB-32	100.00	1.43e+08	1.10	y	27:06	-	0.77
190	Tri-╗	13C-PCB-28	100.00	1.36e+08	1.05	y	29:02	-	0.89
191	Tri-╗	13C-PCB-37	100.00	1.26e+08	1.06	y	32:52	-	0.82
192	Tetr╗	13C-PCB-54	100.00	1.26e+08	0.81	y	27:55	-	0.97
193	Tetr╗	13C-PCB-52	100.00	9.82e+07	0.78	y	31:24	-	0.76
194	Tetr╗	13C-PCB-47	100.00	1.05e+08	0.77	y	31:55	-	0.81
195	Tetr╗	13C-PCB-70	100.00	1.29e+08	0.79	y	35:25	-	1.00
196	Tetr╗	13C-PCB-80	100.00	1.35e+08	0.80	y	35:50	-	1.04
197	Tetr╗	13C-PCB-81	100.00	1.20e+08	0.78	y	38:56	-	0.93
198	Tetr╗	13C-PCB-77	100.00	1.27e+08	0.80	y	39:32	-	0.98
199	Pent╗	13C-PCB-104	100.00	8.83e+07	1.55	y	32:34	-	1.00
200	Pent╗	13C-PCB-95	100.00	6.77e+07	1.62	y	35:43	-	0.77
201	Pent╗	13C-PCB-101	100.00	7.03e+07	1.56	y	37:23	-	0.80
202	Pent╗	13C-PCB-97	100.00	6.24e+07	1.61	y	38:42	-	0.71
203	Pent╗	13C-PCB-123	100.00	7.82e+07	1.58	y	41:16	-	0.88
204	Pent╗	13C-PCB-118	100.00	8.64e+07	1.60	y	41:26	-	0.98
205	Pent╗	13C-PCB-114	100.00	1.01e+08	1.61	y	42:06	-	1.37
206	Pent╗	13C-PCB-105	100.00	1.02e+08	1.58	y	42:58	-	1.38
207	Pent╗	13C-PCB-127	100.00	1.09e+08	1.60	y	43:18	-	1.48
208	Pent╗	13C-PCB-126	100.00	9.62e+07	1.57	y	45:12	-	1.30
209	Hexa╗	13C-PCB-155	100.00	7.37e+07	1.30	y	36:56	-	0.83
210	Hexa╗	13C-PCB-153	100.00	8.26e+07	1.29	y	43:07	-	1.12
211	Hexa╗	13C-PCB-141	100.00	7.81e+07	1.29	y	43:51	-	1.06
212	Hexa	13C-PCB-138	100.00	8.07e+07	1.29	y	44:42	-	1.09
213	Hexa╗	13C-PCB-159	100.00	9.15e+07	1.26	y	46:00	-	1.24
214	Hexa╗	13C-PCB-167	100.00	1.01e+08	1.25	y	46:40	-	1.37
215	Hexa╗	13C-PCB-156	100.00	9.58e+07	1.27	y	47:59	-	1.30
216	Hexa╗	13C-PCB-157	100.00	1.01e+08	1.31	y	48:15	-	1.36
217	Hexa╗	13C-PCB-169	100.00	9.47e+07	1.29	y	50:19	-	1.28
218	Hept╗	13C-PCB-188	100.00	6.72e+07	0.46	y	42:45	-	0.91
219	Hept╗	13C-PCB-180	100.00	4.95e+07	0.46	y	49:15	-	0.67
220	Hept╗	13C-PCB-170	100.00	3.88e+07	0.47	y	50:41	-	0.53
221	Hept╗	13C-PCB-189	100.00	5.10e+07	0.48	y	52:07	-	0.69
222	Octa╗	13C-PCB-202	100.00	5.93e+07	0.90	y	48:11	-	0.80

223	Octa¬	13C-PCB-194	100.00	5.48e+07	0.91 y	53:37	-	0.80
224	Nona¬	13C-PCB-208	100.00	7.31e+07	0.78 y	52:53	-	1.07
225	Nona¬	13C-PCB-206	100.00	4.59e+07	0.80 y	55:18	-	0.67
226	Deca¬	13C-PCB-209	100.00	4.28e+07	1.18 y	56:34	-	0.63
227	DI-RS	13C-PCB-15	100.00	1.87e+08	1.59 y	25:55	-	1.00
228	Tri-¬	13C-PCB-31	100.00	1.53e+08	1.05 y	28:55	-	1.00
229	Tetr¬	13C-PCB-60	100.00	1.30e+08	0.78 y	36:40	-	1.00
230	Penta	13C-PCB-111	100.00	8.84e+07	1.58 y	39:07	-	1.00
231	Hexa¬	13C-PCB-128	100.00	7.38e+07	1.22 y	46:17	-	1.00
232	Octa¬	13C-PCB-205	100.00	6.83e+07	0.90 y	53:54	-	1.00

233	CRS		13C-PCB-79	100.00	1.31e+08	0.78	y	37:43	- 1.01
234	CRS		13C-PCB-178	100.00	4.40e+07	0.47	y	45:33	- 0.60
235	PS		13C-PCB-79	100.00	1.31e+08	0.78	y	37:43	- 1.09
236	PS		13C-PCB-178	100.00	4.40e+07	0.47	y	45:33	- 0.89

Filename: 140623E2 S: 6 Acquired: 23-JUN-14 17:01:39
Run: 140623E2 Analyte: ICal: PCBVG8-6-23-14 Results: 140623E2
Sample text: ST140623E2-6 PCB CS5 14F1606

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	750.00	1.47e+09	3.03 y	16:25	-	1.29
2	Mono	PCB-2	750.00	1.54e+09	3.03 y	18:42	-	1.26
3	Mono	PCB-3	750.00	1.85e+09	3.03 y	18:55	-	1.51
4	Di	PCB-4/10	3000.00	5.45e+09	1.65 y	20:15	-	1.62
5	Di	PCB-7/9	3000.00	6.53e+09	1.65 y	21:58	-	1.26
6	Di	PCB-6	1500.00	3.51e+09	1.66 y	22:36	-	1.35
7	Di	PCB-5/8	3000.00	6.19e+09	1.65 y	23:01	-	1.19
8	Di	PCB-14	1500.00	3.16e+09	1.66 y	24:04	-	1.15
9	Di	PCB-11	1500.00	3.07e+09	1.65 y	25:14	-	1.12
10	Di	PCB-12/13	3000.00	6.82e+09	1.65 y	25:38	-	1.24
11	Di	PCB-15	1500.00	3.68e+09	1.66 y	25:56	-	1.34
12	Tri	PCB-19	750.00	7.61e+08	1.06 y	24:15	-	1.09
13	Tri	PCB-30	750.00	1.28e+09	1.06 y	25:08	-	1.83
14	Tri	PCB-18	750.00	8.96e+08	1.06 y	25:51	-	0.82
15	Tri	PCB-17	750.00	1.03e+09	1.07 y	26:02	-	0.95
16	Tri	PCB-24/27	1500.00	2.73e+09	1.07 y	26:36	-	1.25
17	Tri	PCB-16/32	1500.00	2.10e+09	1.07 y	27:06	-	0.96
18	Tri	PCB-34	750.00	1.12e+09	1.02 y	27:52	-	1.09
19	Tri	PCB-23	750.00	1.37e+09	1.02 y	27:58	-	1.33
20	Tri	PCB-29	750.00	1.10e+09	1.00 y	28:13	-	1.06
21	Tri	PCB-26	750.00	1.23e+09	1.02 y	28:25	-	1.19
22	Tri	PCB-25	750.00	1.15e+09	0.98 y	28:35	-	1.11
23	Tri	PCB-31	750.00	1.08e+09	0.96 y	28:56	-	1.05
24	Tri	PCB-28	750.00	1.62e+09	1.02 y	29:03	-	1.57
25	Tri	PCB-20/21/33	2250.00	3.02e+09	0.99 y	29:39	-	0.98
26	Tri	PCB-22	750.00	1.22e+09	1.01 y	30:05	-	1.18
27	Tri	PCB-36	750.00	9.30e+08	0.97 y	30:41	-	0.99
28	Tri	PCB-39	750.00	9.84e+08	1.03 y	31:10	-	1.05
29	Tri	PCB-38	750.00	9.41e+08	0.97 y	31:56	-	1.00
30	Tri	PCB-35	750.00	1.09e+09	0.98 y	32:27	-	1.17
31	Tri	PCB-37	750.00	1.06e+09	0.97 y	32:53	-	1.13
32	Tetra	PCB-54	750.00	1.06e+09	0.76 y	27:57	-	1.09
33	Tetra	PCB-50	750.00	8.12e+08	0.76 y	29:06	-	0.83
34	Tetra	PCB-53	750.00	7.83e+08	0.75 y	29:44	-	1.05
35	Tetra	PCB-51	750.00	7.61e+08	0.75 y	30:04	-	1.02
36	Tetra	PCB-45	750.00	6.16e+08	0.75 y	30:30	-	0.82
37	Tetra	PCB-46	750.00	6.05e+08	0.76 y	30:59	-	0.81
38	Tetra	PCB-52/69	1500.00	2.06e+09	0.76 y	31:27	-	1.37
39	Tetra	PCB-73	750.00	9.51e+08	0.78 y	31:34	-	1.27
40	Tetra	PCB-43/49	1500.00	1.52e+09	0.76 y	31:44	-	1.02
41	Tetra	PCB-47	750.00	7.65e+08	0.74 y	31:56	-	0.98

42	Tetra	PCB-48/75	1500.00	1.93e+09	0.76 y	32:03	-	1.24
43	Tetra	PCB-65	750.00	9.32e+08	0.75 y	32:19	-	1.19
44	Tetra	PCB-62	750.00	9.33e+08	0.76 y	32:26	-	1.19
45	Tetra	PCB-44	750.00	6.53e+08	0.76 y	32:44	-	0.83
46	Tetra	PCB-42/59	1500.00	1.82e+09	0.76 y	32:57	-	1.17
47	Tetra	PCB-41/64/71/72	3000.00	3.95e+09	0.77 y	33:32	-	1.26
48	Tetra	PCB-68	750.00	1.08e+09	0.76 y	33:47	-	1.38
49	Tetra	PCB-40	750.00	5.59e+08	0.77 y	34:00	-	0.71
50	Tetra	PCB-57	750.00	1.01e+09	0.77 y	34:22	-	0.99
51	Tetra	PCB-67	750.00	1.07e+09	0.76 y	34:40	-	1.05
52	Tetra	PCB-58	750.00	9.72e+08	0.77 y	34:47	-	0.96

53	Tetra	PCB-63	750.00	9.30e+08	0.77 y	34:56	-	0.92
54	Tetra	PCB-74	750.00	1.25e+09	0.76 y	35:13	-	1.23
55	Tetra	PCB-61/70	1500.00	1.91e+09	0.76 y	35:24	-	0.94
56	Tetra	PCB-76/66	1500.00	2.06e+09	0.76 y	35:37	-	1.02
57	Tetra	PCB-80	750.00	1.23e+09	0.76 y	35:51	-	1.18
58	Tetra	PCB-55	750.00	1.10e+09	0.75 y	36:10	-	1.06
59	Tetra	PCB-56/60	1500.00	2.06e+09	0.76 y	36:40	-	0.98
60	Tetra	PCB-79	750.00	1.10e+09	0.77 y	37:44	-	1.06
61	Tetra	PCB-78	750.00	1.22e+09	0.77 y	38:26	-	1.24
62	Tetra	PCB-81	750.00	1.30e+09	0.78 y	38:58	-	1.33
63	Tetra	PCB-77	750.00	1.06e+09	0.79 y	39:33	-	1.09
64	Penta	PCB-104	750.00	8.02e+08	1.57 y	32:35	-	1.21
65	Penta	PCB-96	750.00	7.85e+08	1.58 y	33:50	-	1.19
66	Penta	PCB-103	750.00	6.73e+08	1.58 y	34:22	-	1.02
67	Penta	PCB-100	750.00	6.59e+08	1.58 y	34:44	-	1.00
68	Penta	PCB-94	750.00	5.35e+08	1.58 y	35:12	-	1.05
69	Penta	PCB-95/98/102	2250.00	1.88e+09	1.56 y	35:41	-	1.23
70	Penta	PCB-93	750.00	4.72e+08	1.58 y	35:49	-	0.93
71	Penta	PCB-88/91	1500.00	1.12e+09	1.56 y	36:05	-	1.10
72	Penta	PCB-121	750.00	8.92e+08	1.59 y	36:12	-	1.75
73	Penta	PCB-84/92	1500.00	1.15e+09	1.58 y	37:02	-	1.06
74	Penta	PCB-89	750.00	5.99e+08	1.56 y	37:14	-	1.10
75	Penta	PCB-90/101	1500.00	1.20e+09	1.56 y	37:24	-	1.11
76	Penta	PCB-113	750.00	7.64e+08	1.55 y	37:39	-	1.41
77	Penta	PCB-99	750.00	7.39e+08	1.58 y	37:44	-	1.36
78	Penta	PCB-119	750.00	7.86e+08	1.58 y	38:11	-	1.63
79	Penta	PCB-108/112	1500.00	1.31e+09	1.58 y	38:22	-	1.36
80	Penta	PCB-83	750.00	7.22e+08	1.58 y	38:31	-	1.49
81	Penta	PCB-97	750.00	5.75e+08	1.58 y	38:43	-	1.19
82	Penta	PCB-86	750.00	4.64e+08	1.55 y	38:51	-	0.96
83	Penta	PCB-87/117/125	2250.00	2.41e+09	1.59 y	38:59	-	1.66
84	Penta	PCB-111/115	1500.00	1.61e+09	1.57 y	39:08	-	1.67
85	Penta	PCB-85/116	1500.00	1.32e+09	1.57 y	39:16	-	1.37
86	Penta	PCB-120	750.00	8.54e+08	1.57 y	39:30	-	1.77
87	Penta	PCB-110	750.00	7.47e+08	1.59 y	39:39	-	1.55
88	Penta	PCB-82	750.00	4.68e+08	1.56 y	40:16	-	0.76
89	Penta	PCB-124	750.00	9.82e+08	1.56 y	40:57	-	1.60
90	Penta	PCB-107/109	1500.00	1.67e+09	1.57 y	41:06	-	1.36
91	Penta	PCB-123	750.00	7.28e+08	1.57 y	41:17	-	1.19
92	Penta	PCB-106/118	1500.00	1.64e+09	1.59 y	41:29	-	1.20
93	Penta	PCB-114	750.00	1.06e+09	1.62 y	42:07	-	1.28
94	Penta	PCB-122	750.00	9.29e+08	1.66 y	42:15	-	1.12
95	Penta	PCB-105	750.00	1.10e+09	1.63 y	42:59	-	1.33
96	Penta	PCB-127	750.00	1.16e+09	1.65 y	43:18	-	1.32
97	Penta	PCB-126	750.00	9.26e+08	1.64 y	45:13	-	1.21
98	Hexa	PCB-155	750.00	6.31e+08	1.29 y	36:58	-	1.16
99	Hexa	PCB-150	750.00	5.78e+08	1.28 y	38:13	-	1.06
100	Hexa	PCB-152	750.00	6.42e+08	1.29 y	38:42	-	1.18
101	Hexa	PCB-145	750.00	7.08e+08	1.29 y	39:09	-	1.30
102	Hexa	PCB-136	750.00	6.49e+08	1.27 y	39:28	-	1.19

103	Hexa	PCB-148	750.00	4.68e+08	1.28 y	39:34	-	0.86
104	Hexa	PCB-154	750.00	4.91e+08	1.28 y	40:03	-	0.90
105	Hexa	PCB-151	750.00	4.20e+08	1.28 y	40:42	-	0.77
106	Hexa	PCB-135	750.00	4.60e+08	1.27 y	40:55	-	0.84
107	Hexa	PCB-144	750.00	4.48e+08	1.29 y	41:02	-	0.82
108	Hexa	PCB-147	750.00	5.04e+08	1.28 y	41:10	-	0.93
109	Hexa	PCB-139/149	1500.00	9.10e+08	1.28 y	41:26	-	0.84
110	Hexa	PCB-140	750.00	4.13e+08	1.28 y	41:37	-	0.76
111	Hexa	PCB-134/143	1500.00	1.26e+09	1.24 y	42:02	-	0.95
112	Hexa	PCB-133/142	1500.00	1.12e+09	1.25 y	42:21	-	0.85
113	Hexa	PCB-131	750.00	5.92e+08	1.24 y	42:30	-	0.90

114	Hexa	PCB-146/165	1500.00	1.70e+09	1.24 y	42:43	-	1.29
115	Hexa	PCB-132/161	1500.00	1.50e+09	1.24 y	42:58	-	1.14
116	Hexa	PCB-153	750.00	8.18e+08	1.25 y	43:08	-	1.24
117	Hexa	PCB-168	750.00	1.00e+09	1.24 y	43:21	-	1.52
118	Hexa	PCB-141	750.00	6.67e+08	1.24 y	43:52	-	1.09
119	Hexa	PCB-137	750.00	7.01e+08	1.23 y	44:15	-	1.14
120	Hexa	PCB-130	750.00	5.55e+08	1.25 y	44:22	-	0.90
121	Hexa	PCB-138/163/164	2250.00	2.58e+09	1.24 y	44:44	-	1.38
122	Hexa	PCB-158/160	1500.00	1.76e+09	1.24 y	44:59	-	1.41
123	Hexa	PCB-129	750.00	5.55e+08	1.24 y	45:14	-	0.89
124	Hexa	PCB-166	750.00	8.60e+08	1.24 y	45:41	-	1.21
125	Hexa	PCB-159	750.00	8.27e+08	1.24 y	46:00	-	1.16
126	Hexa	PCB-128/162	1500.00	1.52e+09	1.24 y	46:18	-	1.07
127	Hexa	PCB-167	750.00	9.41e+08	1.24 y	46:42	-	1.24
128	Hexa	PCB-156	750.00	8.95e+08	1.24 y	47:59	-	1.19
129	Hexa	PCB-157	750.00	9.06e+08	1.25 y	48:16	-	1.15
130	Hexa	PCB-169	750.00	8.21e+08	1.25 y	50:21	-	1.12
131	Hepta	PCB-188	750.00	8.34e+08	1.05 y	42:46	-	1.61
132	Hepta	PCB-184	750.00	8.48e+08	1.06 y	43:13	-	1.64
133	Hepta	PCB-179	750.00	6.69e+08	1.06 y	44:00	-	1.29
134	Hepta	PCB-176	750.00	7.45e+08	1.06 y	44:28	-	1.44
135	Hepta	PCB-186	750.00	7.39e+08	1.05 y	45:05	-	1.43
136	Hepta	PCB-178	750.00	5.20e+08	1.06 y	45:34	-	1.00
137	Hepta	PCB-175	750.00	5.24e+08	1.06 y	45:55	-	1.01
138	Hepta	PCB-182/187	1500.00	1.33e+09	1.05 y	46:05	-	1.28
139	Hepta	PCB-183	750.00	6.17e+08	1.06 y	46:25	-	1.19
140	Hepta	PCB-185	750.00	7.01e+08	1.06 y	47:04	-	1.89
141	Hepta	PCB-174	750.00	5.17e+08	1.05 y	47:26	-	1.40
142	Hepta	PCB-181	750.00	5.76e+08	1.06 y	47:33	-	1.56
143	Hepta	PCB-177	750.00	4.88e+08	1.06 y	47:42	-	1.32
144	Hepta	PCB-171	750.00	6.45e+08	1.06 y	48:01	-	1.74
145	Hepta	PCB-173	750.00	4.34e+08	1.05 y	48:26	-	1.17
146	Hepta	PCB-172	750.00	6.78e+08	1.06 y	48:53	-	1.83
147	Hepta	PCB-192	750.00	6.93e+08	1.05 y	49:04	-	1.87
148	Hepta	PCB-180	750.00	5.13e+08	1.05 y	49:17	-	1.39
149	Hepta	PCB-193	750.00	6.52e+08	1.06 y	49:29	-	1.76
150	Hepta	PCB-191	750.00	6.47e+08	1.05 y	49:42	-	1.75
151	Hepta	PCB-170	750.00	4.90e+08	1.06 y	50:41	-	1.66
152	Hepta	PCB-190	750.00	6.88e+08	1.05 y	50:52	-	2.33
153	Hepta	PCB-189	750.00	6.33e+08	1.05 y	52:08	-	1.58
154	Octa	PCB-202	750.00	5.06e+08	0.91 y	48:13	-	1.14
155	Octa	PCB-201	750.00	5.32e+08	0.91 y	48:42	-	1.20
156	Octa	PCB-204	750.00	5.54e+08	0.92 y	48:52	-	1.25
157	Octa	PCB-197	750.00	4.91e+08	0.92 y	49:10	-	1.11
158	Octa	PCB-200	750.00	4.81e+08	0.92 y	50:00	-	1.09
159	Octa	PCB-198	750.00	3.58e+08	0.91 y	51:16	-	0.81
160	Octa	PCB-199	750.00	3.69e+08	0.92 y	51:23	-	0.83
161	Octa	PCB-196/203	1500.00	8.08e+08	0.92 y	51:38	-	0.91
162	Octa	PCB-195	750.00	5.64e+08	0.92 y	52:47	-	1.30
163	Octa	PCB-194	750.00	5.18e+08	0.92 y	53:40	-	1.20

164	Octa		PCB-205	750.00	6.92e+08	0.92	y	53:57	- 1.60
165	Nona		PCB-208	750.00	5.53e+08	1.33	y	52:55	- 0.94
166	Nona		PCB-207	750.00	6.58e+08	1.33	y	53:14	- 1.12
167	Nona		PCB-206	750.00	3.54e+08	1.32	y	55:22	- 1.03
168	Deca		PCB-209	750.00	3.89e+08	1.19	y	56:40	- 1.22
169	Tot ╗	Total Mono-PCB		0.00	-	-	n	-	- 1.36
170	Tot ╗	Total Di-PCB		0.00	-	-	n	-	- 1.25
171	Tot ╗	Total Tri-PCB		0.00	-	-	n	-	- 1.15

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.12
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.09
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.23
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.25
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.96
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.14
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.46
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.03
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.36
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.03
182	Tot ╗	Total Deca-PCB	750.00	3.89e+08	1.19	y	56:40	-	1.22
183	Mono╗	13C-PCB-1	100.00	1.51e+08	3.37	y	16:24	-	0.77
184	Mono╗	13C-PCB-3	100.00	1.63e+08	3.42	y	18:54	-	0.83
185	Di-IS	13C-PCB-4	100.00	1.12e+08	1.60	y	20:12	-	0.57
186	Di-IS	13C-PCB-9	100.00	1.73e+08	1.58	y	21:55	-	0.88
187	Di-IS	13C-PCB-11	100.00	1.84e+08	1.56	y	25:13	-	0.94
188	Tri-╗	13C-PCB-19	100.00	9.33e+07	1.09	y	24:14	-	0.48
189	Tri-╗	13C-PCB-32	100.00	1.45e+08	1.09	y	27:05	-	0.74
190	Tri-╗	13C-PCB-28	100.00	1.37e+08	1.03	y	29:01	-	1.02
191	Tri-╗	13C-PCB-37	100.00	1.25e+08	1.07	y	32:52	-	0.93
192	Tetr╗	13C-PCB-54	100.00	1.30e+08	0.80	y	27:56	-	0.98
193	Tetr╗	13C-PCB-52	100.00	9.99e+07	0.80	y	31:25	-	0.75
194	Tetr╗	13C-PCB-47	100.00	1.04e+08	0.77	y	31:55	-	0.78
195	Tetr╗	13C-PCB-70	100.00	1.35e+08	0.78	y	35:24	-	1.02
196	Tetr╗	13C-PCB-80	100.00	1.39e+08	0.80	y	35:49	-	1.05
197	Tetr╗	13C-PCB-81	100.00	1.30e+08	0.79	y	38:56	-	0.98
198	Tetr╗	13C-PCB-77	100.00	1.29e+08	0.80	y	39:32	-	0.97
199	Pent╗	13C-PCB-104	100.00	8.83e+07	1.59	y	32:34	-	0.96
200	Pent╗	13C-PCB-95	100.00	6.79e+07	1.55	y	35:43	-	0.74
201	Pent╗	13C-PCB-101	100.00	7.25e+07	1.55	y	37:23	-	0.79
202	Pent╗	13C-PCB-97	100.00	6.44e+07	1.57	y	38:42	-	0.70
203	Pent╗	13C-PCB-123	100.00	8.18e+07	1.58	y	41:16	-	0.89
204	Pent╗	13C-PCB-118	100.00	9.11e+07	1.59	y	41:27	-	0.99
205	Pent╗	13C-PCB-114	100.00	1.10e+08	1.61	y	42:06	-	1.45
206	Pent╗	13C-PCB-105	100.00	1.10e+08	1.59	y	42:58	-	1.45
207	Pent╗	13C-PCB-127	100.00	1.18e+08	1.61	y	43:18	-	1.54
208	Pent╗	13C-PCB-126	100.00	1.02e+08	1.57	y	45:13	-	1.34
209	Hexa╗	13C-PCB-155	100.00	7.27e+07	1.27	y	36:56	-	0.79
210	Hexa╗	13C-PCB-153	100.00	8.79e+07	1.29	y	43:07	-	1.15
211	Hexa╗	13C-PCB-141	100.00	8.18e+07	1.28	y	43:52	-	1.07
212	Hexa	13C-PCB-138	100.00	8.32e+07	1.27	y	44:43	-	1.09
213	Hexa╗	13C-PCB-159	100.00	9.51e+07	1.28	y	45:59	-	1.25
214	Hexa╗	13C-PCB-167	100.00	1.01e+08	1.26	y	46:41	-	1.33
215	Hexa╗	13C-PCB-156	100.00	1.01e+08	1.27	y	47:59	-	1.32
216	Hexa╗	13C-PCB-157	100.00	1.05e+08	1.31	y	48:15	-	1.38
217	Hexa╗	13C-PCB-169	100.00	9.82e+07	1.28	y	50:20	-	1.29
218	Hept╗	13C-PCB-188	100.00	6.91e+07	0.47	y	42:45	-	0.91
219	Hept╗	13C-PCB-180	100.00	4.94e+07	0.48	y	49:16	-	0.65
220	Hept╗	13C-PCB-170	100.00	3.94e+07	0.46	y	50:41	-	0.52
221	Hept╗	13C-PCB-189	100.00	5.34e+07	0.46	y	52:08	-	0.70
222	Octa╗	13C-PCB-202	100.00	5.91e+07	0.90	y	48:12	-	0.78

223	Octa┐	13C-PCB-194	100.00	5.78e+07	0.93	y	53:39	-	0.79
224	Nona┐	13C-PCB-208	100.00	7.83e+07	0.77	y	52:54	-	1.07
225	Nona┐	13C-PCB-206	100.00	4.57e+07	0.77	y	55:21	-	0.62
226	Deca┐	13C-PCB-209	100.00	4.25e+07	1.20	y	56:39	-	0.58
227	DI-RS	13C-PCB-15	100.00	1.96e+08	1.59	y	25:55	-	1.00
228	Tri-┐	13C-PCB-31	100.00	1.34e+08	1.04	y	28:55	-	1.00
229	Tetr┐	13C-PCB-60	100.00	1.33e+08	0.78	y	36:39	-	1.00
230	Penta	13C-PCB-111	100.00	9.21e+07	1.57	y	39:07	-	1.00
231	Hexa┐	13C-PCB-128	100.00	7.63e+07	1.27	y	46:17	-	1.00
232	Octa┐	13C-PCB-205	100.00	7.35e+07	0.92	y	53:56	-	1.00

233	CRS	13C-PCB-79	100.00	1.38e+08	0.77 y	37:43	-	1.04
234	CRS	13C-PCB-178	100.00	4.43e+07	0.45 y	45:33	-	0.58
235	PS	13C-PCB-79	100.00	1.38e+08	0.77 y	37:43	-	1.06
236	PS	13C-PCB-178	100.00	4.43e+07	0.45 y	45:33	-	0.90

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140623E2-4 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140623E2 S#4 Analysis Date: 23-JUN-14 Time: 14:53:49

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	3.00	2.66-3.60	y	51.3	37.5-62.5	PCB-52/69	0.76	0.65-0.89	y	99.8	75.0-125
PCB-2	3.01	2.66-3.60	y	51.8	37.5-62.5	PCB-73	0.78	0.65-0.89	y	51.0	37.5-62.5
PCB-3	3.01	2.66-3.60	y	51.3	37.5-62.5	PCB-43/49	0.76	0.65-0.89	y	97.5	75.0-125
PCB-4/10	1.65	1.33-1.79	y	200.1	150-250	PCB-47	0.76	0.65-0.89	y	49.3	37.5-62.5
PCB-7/9	1.65	1.33-1.79	y	199.3	150-250	PCB-48/75	0.77	0.65-0.89	y	95.6	75.0-125
PCB-6	1.66	1.33-1.79	y	100.0	75.0-125	PCB-65	0.76	0.65-0.89	y	50.2	37.5-62.5
PCB-5/8	1.64	1.33-1.79	y	200.2	150-250	PCB-62	0.76	0.65-0.89	y	44.6	37.5-62.5
PCB-14	1.66	1.33-1.79	y	102.7	75.0-125	PCB-44	0.77	0.65-0.89	y	46.7	37.5-62.5
PCB-11	1.65	1.33-1.79	y	101.7	75.0-125	PCB-42/59	0.76	0.65-0.89	y	95.3	75.0-125
PCB-12/13	1.65	1.33-1.79	y	200.4	150-250	PCB-41/64/71/72	0.77	0.65-0.89	y	187.9	150-250
PCB-15	1.66	1.33-1.79	y	100.2	75.0-125	PCB-68	0.76	0.65-0.89	y	48.0	37.5-62.5
PCB-19	1.05	0.88-1.20	y	49.8	37.5-62.5	PCB-40	0.77	0.65-0.89	y	48.5	37.5-62.5
PCB-30	1.06	0.88-1.20	y	49.4	37.5-62.5	PCB-57	0.76	0.65-0.89	y	50.7	37.5-62.5
PCB-18	1.05	0.88-1.20	y	51.3	37.5-62.5	PCB-67	0.76	0.65-0.89	y	49.2	37.5-62.5
PCB-17	1.05	0.88-1.20	y	50.5	37.5-62.5	PCB-58	0.79	0.65-0.89	y	50.1	37.5-62.5
PCB-24/27	1.05	0.88-1.20	y	101.3	75.0-125	PCB-63	0.76	0.65-0.89	y	49.0	37.5-62.5
PCB-16/32	1.06	0.88-1.20	y	100.2	75.0-125	PCB-74	0.77	0.65-0.89	y	48.3	37.5-62.5
PCB-34	1.03	0.88-1.20	y	47.9	37.5-62.5	PCB-61/70	0.77	0.65-0.89	y	99.9	75.0-125
PCB-23	1.06	0.88-1.20	y	47.9	37.5-62.5	PCB-76/66	0.77	0.65-0.89	y	99.0	75.0-125
PCB-29	1.04	0.88-1.20	y	49.2	37.5-62.5	PCB-80	0.77	0.65-0.89	y	51.1	37.5-62.5
PCB-26	1.04	0.88-1.20	y	48.9	37.5-62.5	PCB-55	0.77	0.65-0.89	y	51.8	37.5-62.5
PCB-25	1.06	0.88-1.20	y	50.3	37.5-62.5	PCB-56/60	0.77	0.65-0.89	y	98.9	75.0-125
PCB-31	1.02	0.88-1.20	y	48.2	37.5-62.5	PCB-79	0.78	0.65-0.89	y	49.6	37.5-62.5
PCB-28	1.04	0.88-1.20	y	49.8	37.5-62.5	PCB-78	0.77	0.65-0.89	y	49.1	37.5-62.5
PCB-20/21/33	1.03	0.88-1.20	y	149.6	112.5-225	PCB-81	0.78	0.65-0.89	y	48.4	37.5-62.5
PCB-22	1.04	0.88-1.20	y	50.9	37.5-62.5	PCB-77	0.79	0.65-0.89	y	49.2	37.5-62.5
PCB-36	1.03	0.88-1.20	y	51.8	37.5-62.5	PCB-104	1.57	1.32-1.78	y	50.6	37.5-62.5
PCB-39	1.02	0.88-1.20	y	53.7	37.5-62.5	PCB-96	1.56	1.32-1.78	y	49.5	37.5-62.5
PCB-38	1.03	0.88-1.20	y	51.1	37.5-62.5	PCB-103	1.56	1.32-1.78	y	48.8	37.5-62.5
PCB-35	1.03	0.88-1.20	y	47.9	37.5-62.5	PCB-100	1.58	1.32-1.78	y	49.2	37.5-62.5
PCB-37	1.02	0.88-1.20	y	48.4	37.5-62.5	PCB-94	1.55	1.32-1.78	y	48.1	37.5-62.5
PCB-54	0.78	0.65-0.89	y	49.7	37.5-62.5	PCB-95/98/102	1.55	1.32-1.78	y	149.1	112.5-225
PCB-50	0.77	0.65-0.89	y	49.7	37.5-62.5	PCB-93	1.58	1.32-1.78	y	50.1	37.5-62.5
PCB-53	0.75	0.65-0.89	y	50.5	37.5-62.5	PCB-88/91	1.58	1.32-1.78	y	100.5	75.0-125
PCB-51	0.77	0.65-0.89	y	49.6	37.5-62.5	PCB-121	1.60	1.32-1.78	y	50.2	37.5-62.5
PCB-45	0.77	0.65-0.89	y	51.4	37.5-62.5						
PCB-46	0.76	0.65-0.89	y	49.3	37.5-62.5						

Analyst: DMS

Date: 6/24/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140623E2-4 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140623E2 S#4 Analysis Date: 23-JUN-14 Time: 14:53:49

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-84/92	1.56	1.32-1.78	y	99.2	75.0-125	PCB-140	1.27	1.05-1.43	y	48.3	37.5-62.5
PCB-89	1.58	1.32-1.78	y	50.3	37.5-62.5	PCB-134/143	1.25	1.05-1.43	y	97.1	75.0-125
PCB-90/101	1.56	1.32-1.78	y	100.3	75.0-125	PCB-133/142	1.24	1.05-1.43	y	97.4	75.0-125
PCB-113	1.57	1.32-1.78	y	52.7	37.5-62.5	PCB-131	1.23	1.05-1.43	y	49.1	37.5-62.5
PCB-99	1.60	1.32-1.78	y	47.7	37.5-62.5	PCB-146/165	1.25	1.05-1.43	y	98.5	75.0-125
PCB-119	1.56	1.32-1.78	y	49.8	37.5-62.5	PCB-132/161	1.31	1.05-1.43	y	98.0	75.0-125
PCB-108/112	1.58	1.32-1.78	y	100.2	75.0-125	PCB-153	1.16	1.05-1.43	y	49.2	37.5-62.5
PCB-83	1.57	1.32-1.78	y	49.2	37.5-62.5	PCB-168	1.25	1.05-1.43	y	50.1	37.5-62.5
PCB-97	1.55	1.32-1.78	y	49.4	37.5-62.5	PCB-141	1.24	1.05-1.43	y	48.7	37.5-62.5
PCB-86	1.55	1.32-1.78	y	47.3	37.5-62.5	PCB-137	1.23	1.05-1.43	y	49.3	37.5-62.5
PCB-87/117/125	1.62	1.32-1.78	y	153.7	112.5-225	PCB-130	1.23	1.05-1.43	y	50.2	37.5-62.5
PCB-111/115	1.51	1.32-1.78	y	98.7	75.0-125	PCB-138/163/164	1.24	1.05-1.43	y	147.8	112.5-225
PCB-85/116	1.58	1.32-1.78	y	100.6	75.0-125	PCB-158/160	1.23	1.05-1.43	y	99.9	75.0-125
PCB-120	1.59	1.32-1.78	y	48.7	37.5-62.5	PCB-129	1.24	1.05-1.43	y	49.1	37.5-62.5
PCB-110	1.57	1.32-1.78	y	50.0	37.5-62.5	PCB-166	1.24	1.05-1.43	y	49.5	37.5-62.5
PCB-82	1.55	1.32-1.78	y	49.8	37.5-62.5	PCB-159	1.23	1.05-1.43	y	49.9	37.5-62.5
PCB-124	1.58	1.32-1.78	y	48.7	37.5-62.5	PCB-128/162	1.23	1.05-1.43	y	97.4	75.0-125
PCB-107/109	1.59	1.32-1.78	y	102.0	75.0-125	PCB-167	1.22	1.05-1.43	y	50.2	37.5-62.5
PCB-123	1.59	1.32-1.78	y	50.6	37.5-62.5	PCB-156	1.25	1.05-1.43	y	50.3	37.5-62.5
PCB-106/118	1.59	1.32-1.78	y	100.2	75.0-125	PCB-157	1.24	1.05-1.43	y	48.4	37.5-62.5
PCB-114	1.65	1.32-1.78	y	50.6	37.5-62.5	PCB-169	1.27	1.05-1.43	y	48.4	37.5-62.5
PCB-122	1.66	1.32-1.78	y	49.6	37.5-62.5	PCB-188	1.05	0.89-1.21	y	49.3	37.5-62.5
PCB-105	1.64	1.32-1.78	y	49.4	37.5-62.5	PCB-184	1.06	0.89-1.21	y	49.1	37.5-62.5
PCB-127	1.67	1.32-1.78	y	47.6	37.5-62.5	PCB-179	1.06	0.89-1.21	y	49.7	37.5-62.5
PCB-126	1.63	1.32-1.78	y	49.7	37.5-62.5	PCB-176	1.04	0.89-1.21	y	49.5	37.5-62.5
PCB-155	1.27	1.05-1.43	y	49.7	37.5-62.5	PCB-186	1.05	0.89-1.21	y	49.8	37.5-62.5
PCB-150	1.29	1.05-1.43	y	50.1	37.5-62.5	PCB-178	1.05	0.89-1.21	y	49.4	37.5-62.5
PCB-152	1.30	1.05-1.43	y	49.4	37.5-62.5	PCB-175	1.05	0.89-1.21	y	49.6	37.5-62.5
PCB-145	1.28	1.05-1.43	y	49.5	37.5-62.5	PCB-182/187	1.05	0.89-1.21	y	96.9	75.0-125
PCB-136	1.29	1.05-1.43	y	49.0	37.5-62.5	PCB-183	1.05	0.89-1.21	y	47.6	37.5-62.5
PCB-148	1.30	1.05-1.43	y	49.6	37.5-62.5	PCB-185	1.07	0.89-1.21	y	49.3	37.5-62.5
PCB-154	1.28	1.05-1.43	y	48.4	37.5-62.5	PCB-174	1.02	0.89-1.21	y	51.7	37.5-62.5
PCB-151	1.29	1.05-1.43	y	47.9	37.5-62.5	PCB-181	1.06	0.89-1.21	y	49.2	37.5-62.5
PCB-135	1.26	1.05-1.43	y	48.7	37.5-62.5	PCB-177	1.05	0.89-1.21	y	50.0	37.5-62.5
PCB-144	1.30	1.05-1.43	y	46.6	37.5-62.5	PCB-171	1.07	0.89-1.21	y	50.3	37.5-62.5
PCB-147	1.30	1.05-1.43	y	48.2	37.5-62.5	PCB-173	1.04	0.89-1.21	y	50.8	37.5-62.5
PCB-139/149	1.28	1.05-1.43	y	96.8	75.0-125	PCB-172	1.07	0.89-1.21	y	50.2	37.5-62.5

Analyst: DMS

Date: 6/24/14

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140623E2-4 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140623E2 S#4 Analysis Date: 23-JUN-14 Time: 14:53:49

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-192	1.06	0.89-1.21	y	51.0	37.5-62.5
PCB-180	1.05	0.89-1.21	y	50.1	37.5-62.5
PCB-193	1.07	0.89-1.21	y	50.1	37.5-62.5
PCB-191	1.07	0.89-1.21	y	49.6	37.5-62.5
PCB-170	1.05	0.89-1.21	y	50.8	37.5-62.5
PCB-190	1.06	0.89-1.21	y	50.5	37.5-62.5
PCB-189	1.05	0.89-1.21	y	50.0	37.5-62.5
PCB-202	0.94	0.76-1.02	y	49.2	37.5-62.5
PCB-201	0.91	0.76-1.02	y	49.1	37.5-62.5
PCB-204	0.91	0.76-1.02	y	50.1	37.5-62.5
PCB-197	0.91	0.76-1.02	y	49.9	37.5-62.5
PCB-200	0.90	0.76-1.02	y	50.1	37.5-62.5
PCB-198	0.92	0.76-1.02	y	51.1	37.5-62.5
PCB-199	0.91	0.76-1.02	y	47.9	37.5-62.5
PCB-196/203	0.92	0.76-1.02	y	100.1	75.0-125
PCB-195	0.89	0.76-1.02	y	50.7	37.5-62.5
PCB-194	0.92	0.76-1.02	y	49.2	37.5-62.5
PCB-205	0.92	0.76-1.02	y	49.4	37.5-62.5
PCB-208	1.34	1.14-1.54	y	49.7	37.5-62.5
PCB-207	1.32	1.14-1.54	y	49.8	37.5-62.5
PCB-206	1.36	1.14-1.54	y	49.3	37.5-62.5
PCB-209	1.21	0.99-1.33	y	51.1	37.5-62.5

Analyst: DMS

Date: 6/24/14

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST140623E2-4 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 140623E2 S#4 Analysis Date: 23-JUN-14 Time: 14:53:49

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-1	3.37	2.66-3.60	y	98.7	50.0-145
13C-PCB-3	3.41	2.66-3.60	y	94.8	50.0-145
13C-PCB-4	1.58	1.33-1.79	y	99.7	50.0-145
13C-PCB-9	1.59	1.33-1.79	y	99.2	50.0-145
13C-PCB-11	1.57	1.33-1.79	y	98.2	50.0-145
13C-PCB-19	1.07	0.88-1.20	y	99.8	50.0-145
13C-PCB-32	1.09	0.88-1.20	y	98.2	50.0-145
13C-PCB-28	1.06	0.88-1.20	y	98.7	50.0-145
13C-PCB-37	1.07	0.88-1.20	y	94.4	50.0-145
13C-PCB-54	0.81	0.65-0.89	y	100.9	50.0-145
13C-PCB-52	0.80	0.65-0.89	y	100.5	50.0-145
13C-PCB-47	0.79	0.65-0.89	y	100.7	50.0-145
13C-PCB-70	0.78	0.65-0.89	y	97.6	50.0-145
13C-PCB-80	0.80	0.65-0.89	y	98.0	50.0-145
13C-PCB-81	0.79	0.65-0.89	y	96.6	50.0-145
13C-PCB-77	0.78	0.65-0.89	y	96.6	50.0-145
13C-PCB-104	1.57	1.32-1.78	y	100.0	50.0-145
13C-PCB-95	1.59	1.32-1.78	y	99.4	50.0-145
13C-PCB-101	1.54	1.32-1.78	y	98.6	50.0-145
13C-PCB-97	1.59	1.32-1.78	y	98.2	50.0-145
13C-PCB-123	1.61	1.32-1.78	y	96.8	50.0-145
13C-PCB-118	1.58	1.32-1.78	y	95.4	50.0-145
13C-PCB-114	1.60	1.32-1.78	y	98.7	50.0-145
13C-PCB-105	1.60	1.32-1.78	y	96.9	50.0-145
13C-PCB-127	1.57	1.32-1.78	y	98.2	50.0-145
13C-PCB-126	1.58	1.32-1.78	y	99.9	50.0-145
13C-PCB-155	1.29	1.05-1.43	y	99.1	50.0-145
13C-PCB-153	1.29	1.05-1.43	y	99.7	50.0-145
13C-PCB-141	1.28	1.05-1.43	y	100.0	50.0-145
13C-PCB-138	1.29	1.05-1.43	y	101.1	50.0-145
13C-PCB-159	1.27	1.05-1.43	y	98.0	50.0-145
13C-PCB-167	1.30	1.05-1.43	y	98.4	50.0-145
13C-PCB-156	1.29	1.05-1.43	y	98.4	50.0-145
13C-PCB-157	1.29	1.05-1.43	y	97.7	50.0-145

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-169	1.27	1.05-1.43	y	96.7	50 - 145
13C-PCB-188	0.46	0.38-0.52	y	100.6	50 - 145
13C-PCB-180	0.47	0.38-0.52	y	97.7	50 - 145
13C-PCB-170	0.47	0.38-0.52	y	97.2	50 - 145
13C-PCB-189	0.47	0.38-0.52	y	96.3	50 - 145
13C-PCB-202	0.94	0.76-1.02	y	97.2	50 - 145
13C-PCB-194	0.92	0.76-1.02	y	99.4	50 - 145
13C-PCB-208	0.78	0.65-0.89	y	99.5	50 - 145
13C-PCB-206	0.78	0.65-0.89	y	100.0	50 - 145
13C-PCB-209	1.23	0.99-1.33	y	96.9	50 - 145

CRS vs. RS

13C-PCB-79	0.79	0.65-0.89	y	98.3	75 - 125
13C-PCB-178	0.46	0.38-0.52	y	101.1	75 - 125

Analyst: DMS

Date: 6/24/14

Client ID: PCB CS3 14F1302 Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49 ConCal: NA

Lab ID: ST140623E2-4 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-1	9.40e+07	3.00	y	1.19	16:25	1.001	0.996	1.006	51.3300
	PCB-2	9.45e+07	3.01	y	1.18	18:41	0.989	0.984	0.994	51.8481
	PCB-3	1.13e+08	3.01	y	1.43	18:55	1.001	0.996	1.006	51.3028
	PCB-4/10	3.27e+08	1.65	y	1.57	20:14	1.002	0.997	1.007	200.078
	PCB-7/9	3.82e+08	1.65	y	1.21	21:57	0.870	0.866	0.874	199.310
	PCB-6	2.07e+08	1.66	y	1.30	22:35	0.895	0.890	0.899	100.033
	PCB-5/8	3.65e+08	1.64	y	1.15	23:00	0.912	0.907	0.917	200.175
	PCB-14	1.87e+08	1.66	y	1.11	24:04	0.954	0.949	0.959	102.750
	PCB-11	1.81e+08	1.65	y	1.09	25:14	1.000	0.995	1.005	101.723
	PCB-12/13	3.92e+08	1.65	y	1.19	25:38	1.016	1.011	1.021	200.431
	PCB-15	2.11e+08	1.66	y	1.28	25:56	1.028	1.023	1.033	100.196
	PCB-19	4.92e+07	1.05	y	1.04	24:15	1.001	0.996	1.006	49.8495
	PCB-30	7.99e+07	1.06	y	1.71	25:07	1.037	1.032	1.042	49.3635
	PCB-18	5.58e+07	1.05	y	0.78	25:51	0.954	0.949	0.959	51.2756
	PCB-17	6.48e+07	1.05	y	0.92	26:02	0.961	0.956	0.966	50.4844
	PCB-24/27	1.68e+08	1.05	y	1.19	26:36	0.982	0.977	0.987	101.312
-	PCB-16/32	1.31e+08	1.06	y	0.94	27:06	1.000	0.995	1.005	100.158
-	PCB-34	7.59e+07	1.03	y	1.14	27:52	0.960	0.955	0.965	47.8540
	PCB-23	8.55e+07	1.06	y	1.28	27:58	0.964	0.959	0.969	47.9079
	PCB-29	7.42e+07	1.04	y	1.08	28:13	0.972	0.967	0.977	49.2142
	PCB-26	8.24e+07	1.04	y	1.21	28:25	0.979	0.974	0.984	48.9217
	PCB-25	8.85e+07	1.06	y	1.26	28:34	0.984	0.979	0.989	50.2567
	PCB-31	8.64e+07	1.02	y	1.28	28:56	0.997	0.992	1.002	48.1924
	PCB-28	1.19e+08	1.04	y	1.71	29:02	1.000	0.995	1.005	49.7990
	PCB-20/21/33	2.26e+08	1.03	y	1.08	29:39	1.022	1.017	1.027	149.601
	PCB-22	8.60e+07	1.04	y	1.21	30:05	1.037	1.032	1.042	50.9455
	PCB-36	7.12e+07	1.03	y	1.14	30:40	0.933	0.928	0.938	51.8469
	PCB-39	7.20e+07	1.02	y	1.12	31:09	0.948	0.943	0.953	53.6838
	PCB-38	7.37e+07	1.03	y	1.20	31:55	0.971	0.966	0.976	51.1156
	PCB-35	7.10e+07	1.03	y	1.23	32:26	0.987	0.982	0.992	47.9376
	PCB-37	7.16e+07	1.02	y	1.23	32:53	1.000	0.995	1.005	48.3854
	PCB-54	6.73e+07	0.78	y	1.10	27:57	1.001	0.996	1.006	49.6981
	PCB-50	5.38e+07	0.77	y	0.88	29:05	1.042	1.037	1.047	49.7280
	PCB-53	5.23e+07	0.75	y	1.06	29:44	0.947	0.942	0.952	50.5493
	PCB-51	4.77e+07	0.77	y	0.99	30:04	0.957	0.952	0.962	49.5846
	PCB-45	4.32e+07	0.77	y	0.86	30:30	0.971	0.966	0.976	51.4204
	PCB-46	4.05e+07	0.76	y	0.85	30:59	0.986	0.981	0.991	49.2764

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-52/69	1.24e+08	0.76	y	1.28	31:27	1.001	0.996	1.006	99.8332
	PCB-73	6.71e+07	0.78	y	1.35	31:34	1.005	1.000	1.010	51.0170
	PCB-43/49	9.43e+07	0.76	y	0.99	31:44	1.010	1.005	1.015	97.5221
	PCB-47	5.35e+07	0.76	y	1.06	31:55	1.001	0.996	1.006	49.2976
	PCB-48/75	1.20e+08	0.77	y	1.23	32:02	1.004	0.999	1.009	95.5705
	PCB-65	6.30e+07	0.76	y	1.22	32:19	1.013	1.008	1.018	50.1860
	PCB-62	5.58e+07	0.76	y	1.22	32:26	1.016	1.011	1.021	44.5973
	PCB-44	4.12e+07	0.77	y	0.86	32:43	1.026	1.021	1.031	46.6811
	PCB-42/59	1.11e+08	0.76	y	1.14	32:57	1.033	1.028	1.038	95.2591
	PCB-41/64/71/72	2.33e+08	0.77	y	1.21	33:32	1.051	1.046	1.056	187.913
	PCB-68	6.63e+07	0.76	y	1.35	33:47	1.059	1.054	1.064	47.9757
	PCB-40	3.48e+07	0.77	y	0.70	34:00	1.066	1.061	1.071	48.4517
	PCB-57	6.06e+07	0.76	y	0.98	34:22	0.970	0.965	0.975	50.6920
	PCB-67	6.65e+07	0.76	y	1.11	34:40	0.979	0.974	0.984	49.1755
	PCB-58	5.67e+07	0.79	y	0.93	34:47	0.982	0.977	0.987	50.1141
	PCB-63	5.70e+07	0.76	y	0.95	34:56	0.987	0.982	0.992	48.9977
	PCB-74	7.34e+07	0.77	y	1.24	35:13	0.995	0.990	1.000	48.3011
	PCB-61/70	1.16e+08	0.77	y	0.95	35:24	1.000	0.995	1.005	99.8888
	PCB-76/66	1.26e+08	0.77	y	1.04	35:37	1.006	1.001	1.011	99.0361
	PCB-80	7.72e+07	0.77	y	1.19	35:50	1.001	0.996	1.006	51.1089
	PCB-55	6.84e+07	0.77	y	1.04	36:10	1.010	1.005	1.015	51.7926
	PCB-56/60	1.27e+08	0.77	y	1.01	36:40	1.024	1.019	1.029	98.8614
	PCB-79	6.79e+07	0.78	y	1.08	37:43	1.053	1.048	1.058	49.6313
	PCB-78	6.97e+07	0.77	y	1.27	38:25	0.987	0.982	0.992	49.0861
	PCB-81	7.20e+07	0.78	y	1.33	38:57	1.000	0.995	1.005	48.4278
	PCB-77	6.19e+07	0.79	y	1.10	39:33	1.000	0.995	1.005	49.2464
	PCB-104	5.11e+07	1.57	y	1.18	32:35	1.001	0.996	1.006	50.6145
	PCB-96	4.80e+07	1.56	y	1.14	33:50	1.039	1.034	1.044	49.4868
	PCB-103	3.98e+07	1.56	y	0.96	34:22	1.055	1.050	1.060	48.8016
	PCB-100	3.93e+07	1.58	y	0.94	34:42	1.066	1.061	1.071	49.1824
	PCB-94	3.18e+07	1.55	y	1.06	35:11	0.985	0.980	0.990	48.0705
	PCB-95/98/102	1.14e+08	1.55	y	1.22	35:42	1.000	0.995	1.005	149.073
	PCB-93	2.65e+07	1.58	y	0.84	35:48	1.002	0.997	1.007	50.1439
	PCB-88/91	7.03e+07	1.58	y	1.12	36:05	1.010	1.005	1.015	100.529
	PCB-121	5.08e+07	1.60	y	1.62	36:12	1.014	1.009	1.019	50.2163
	PCB-84/92	6.82e+07	1.56	y	1.05	37:01	0.990	0.985	0.995	99.2072
	PCB-89	3.73e+07	1.58	y	1.13	37:14	0.996	0.991	1.001	50.2710

RL: MONO, TRI - DECA: _____

RL: DI : _____

Integrations by Analyst: DMS Date: 6/24/14

Reviewed by Analyst: _____ Date: _____

Client ID: PCB CS3 14F1302 Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49 ConCal: NA
Lab ID: ST140623E2-4 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-90/101	7.26e+07	1.56	y	1.10	37:24	1.000	0.995	1.005	100.338
	PCB-113	4.88e+07	1.57	y	1.41	37:39	1.007	1.002	1.012	52.6770
	PCB-99	4.19e+07	1.60	y	1.34	37:44	1.009	1.004	1.014	47.7406
	PCB-119	4.49e+07	1.56	y	1.53	38:12	0.987	0.982	0.992	49.7646
	PCB-108/112	7.56e+07	1.58	y	1.28	38:21	0.991	0.986	0.996	100.241
	PCB-83	4.40e+07	1.57	y	1.52	38:31	0.995	0.990	1.000	49.2175
	PCB-97	3.44e+07	1.55	y	1.18	38:42	1.000	0.995	1.005	49.3584
	PCB-86	2.35e+07	1.55	y	0.84	38:51	1.004	0.999	1.009	47.2868
	B-87/117/125	1.40e+08	1.62	y	1.55	38:58	1.007	1.002	1.012	153.661
	PCB-111/115	9.49e+07	1.51	y	1.63	39:08	1.011	1.006	1.016	98.7316
	PCB-85/116	7.71e+07	1.58	y	1.30	39:16	1.015	1.010	1.020	100.601
	PCB-120	4.81e+07	1.59	y	1.68	39:30	1.021	1.016	1.026	48.6800
	PCB-110	4.58e+07	1.57	y	1.56	39:39	1.025	1.020	1.030	50.0059
	PCB-82	2.78e+07	1.55	y	0.76	40:17	0.976	0.971	0.981	49.7616
	PCB-124	5.28e+07	1.58	y	1.47	40:57	0.993	0.988	0.998	48.7175
	PCB-107/109	9.93e+07	1.59	y	1.32	41:05	0.996	0.991	1.001	102.042
	PCB-123	4.35e+07	1.59	y	1.17	41:17	1.001	0.996	1.006	50.5524
-	PCB-106/118	9.15e+07	1.59	y	1.17	41:28	1.001	0.996	1.006	100.161
-	PCB-114	6.12e+07	1.65	y	1.30	42:07	1.000	0.995	1.005	50.6258
	PCB-122	5.19e+07	1.66	y	1.12	42:15	1.004	0.999	1.009	49.6469
	PCB-105	5.88e+07	1.64	y	1.30	42:59	1.000	0.995	1.005	49.4039
	PCB-127	6.36e+07	1.67	y	1.33	43:19	1.001	0.996	1.006	47.5787
	PCB-126	5.32e+07	1.63	y	1.18	45:13	1.000	0.995	1.005	49.7195
	PCB-155	3.92e+07	1.27	y	1.11	36:57	1.001	0.966	1.006	49.6608
	PCB-150	3.54e+07	1.29	y	1.00	38:13	1.035	1.030	1.040	50.0537
	PCB-152	3.90e+07	1.30	y	1.12	38:42	1.048	1.043	1.053	49.3510
	PCB-145	4.21e+07	1.28	y	1.20	39:08	1.060	1.055	1.065	49.5203
	PCB-136	4.09e+07	1.29	y	1.18	39:28	1.069	1.064	1.074	48.9891
	PCB-148	2.62e+07	1.30	y	0.74	39:33	1.071	1.066	1.076	49.6483
	PCB-154	2.94e+07	1.28	y	0.86	40:03	1.085	1.080	1.090	48.3589
	PCB-151	2.53e+07	1.29	y	0.75	40:42	1.102	1.097	1.107	47.8747
	PCB-135	2.73e+07	1.26	y	0.79	40:55	1.108	1.103	1.113	48.6888
	PCB-144	2.52e+07	1.30	y	0.76	41:02	1.111	1.105	1.117	46.6300
	PCB-147	2.80e+07	1.30	y	0.82	41:09	1.115	1.109	1.121	48.1949
	PCB-139/149	5.22e+07	1.28	y	0.76	41:25	1.122	1.116	1.128	96.7904
-	PCB-140	2.47e+07	1.27	y	0.72	41:36	1.127	1.121	1.133	48.2707
-	PCB-134/143	7.05e+07	1.25	y	0.92	42:02	0.975	0.970	0.980	97.1084

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-133/142	6.32e+07	1.24	y	0.82	42:20	0.982	0.977	0.987	97.4225
	PCB-131	3.53e+07	1.23	y	0.91	42:30	0.986	0.981	0.991	49.1208
	PCB-146/165	9.72e+07	1.25	y	1.25	42:43	0.991	0.986	0.996	98.5088
	PCB-132/161	8.58e+07	1.31	y	1.10	42:58	0.997	0.992	1.002	98.0024
	PCB-153	4.86e+07	1.16	y	1.25	43:08	1.000	0.995	1.005	49.1545
	PCB-168	5.75e+07	1.25	y	1.45	43:21	1.006	1.001	1.011	50.0689
	PCB-141	3.94e+07	1.24	y	1.09	43:52	1.000	0.995	1.005	48.7397
	PCB-137	3.90e+07	1.23	y	1.06	44:15	1.009	1.004	1.014	49.2894
	PCB-130	3.61e+07	1.23	y	0.96	44:21	1.011	1.006	1.016	50.1859
	PCB-138/163/164	1.47e+08	1.24	y	1.29	44:44	1.001	0.996	1.006	147.764
	PCB-158/160	1.03e+08	1.23	y	1.34	44:59	1.006	1.001	1.011	99.9483
	PCB-129	3.23e+07	1.24	y	0.85	45:13	1.012	1.007	1.017	49.1140
	PCB-166	4.98e+07	1.24	y	1.19	45:41	0.993	0.988	0.998	49.5492
	PCB-159	4.70e+07	1.23	y	1.11	46:01	1.001	0.996	1.006	49.8539
	PCB-128/162	8.65e+07	1.23	y	1.05	46:18	1.007	1.002	1.012	97.4214
	PCB-167	5.55e+07	1.22	y	1.20	46:41	1.000	0.995	1.005	50.1954
	PCB-156	5.05e+07	1.25	y	1.14	48:00	1.001	0.996	1.006	50.3349
	PCB-157	5.18e+07	1.24	y	1.16	48:16	1.000	0.995	1.005	48.3867
	PCB-169	4.66e+07	1.27	y	1.12	50:20	1.000	0.995	1.005	48.3941
	PCB-188	4.99e+07	1.05	y	1.58	42:46	1.001	0.996	1.006	49.3061
	PCB-184	5.13e+07	1.06	y	1.63	43:13	1.011	1.006	1.016	49.1029
	PCB-179	4.15e+07	1.06	y	1.30	44:00	1.029	1.024	1.034	49.7059
	PCB-176	4.68e+07	1.04	y	1.48	44:28	1.040	1.035	1.045	49.4886
	PCB-186	4.64e+07	1.05	y	1.45	45:05	1.055	1.050	1.060	49.8177
	PCB-178	3.27e+07	1.05	y	1.03	45:34	1.066	1.061	1.071	49.3595
	PCB-175	3.22e+07	1.05	y	1.01	45:55	1.074	1.069	1.079	49.6213
	PCB-182/187	7.77e+07	1.05	y	1.25	46:05	1.078	1.073	1.083	96.9439
	PCB-183	3.68e+07	1.05	y	1.21	46:24	1.086	1.081	1.091	47.6012
	PCB-185	4.12e+07	1.07	y	1.80	47:04	0.956	0.951	0.961	49.3457
	PCB-174	3.30e+07	1.02	y	1.38	47:26	0.963	0.958	0.968	51.6599
	PCB-181	3.14e+07	1.06	y	1.38	47:33	0.965	0.960	0.970	49.1713
	PCB-177	2.91e+07	1.05	y	1.26	47:42	0.968	0.963	0.973	50.0451
	PCB-171	3.69e+07	1.07	y	1.58	48:00	0.975	0.970	0.980	50.3499
	PCB-173	2.61e+07	1.04	y	1.11	48:26	0.983	0.978	0.988	50.8218
	PCB-172	3.80e+07	1.07	y	1.63	48:53	0.992	0.987	0.997	50.2115
	PCB-192	4.11e+07	1.06	y	1.74	49:04	0.996	0.991	1.001	51.0155
	PCB-180	3.12e+07	1.05	y	1.34	49:17	1.000	0.995	1.005	50.1142

RL: MONO, TRI - DECA: _____

Integrations by Analyst: DMS

Date: 6/24/14

Client ID: PCB CS3 14F1302 Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49 ConCal: NA
Lab ID: ST140623E2-4 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-193	3.98e+07	1.07	y	1.72	49:27	1.004	0.999	1.009	50.0826
	PCB-191	3.90e+07	1.07	y	1.69	49:42	1.009	1.004	1.014	49.6416
	PCB-170	2.97e+07	1.05	y	1.60	50:41	1.000	0.995	1.005	50.7863
	PCB-190	4.08e+07	1.06	y	2.21	50:51	1.003	0.998	1.008	50.4671
	PCB-189	3.71e+07	1.05	y	1.55	52:08	1.000	0.995	1.005	50.0142
	PCB-202	3.01e+07	0.94	y	1.08	48:12	1.000	0.995	1.005	49.1569
	PCB-201	3.19e+07	0.91	y	1.15	48:41	1.010	1.005	1.015	49.1361
	PCB-204	3.22e+07	0.91	y	1.14	48:50	1.014	1.008	1.018	50.0554
	PCB-197	3.03e+07	0.91	y	1.07	49:09	1.020	1.015	1.025	49.8625
	PCB-200	3.01e+07	0.90	y	1.06	49:59	1.037	1.032	1.044	50.0631
	PCB-198	2.18e+07	0.92	y	0.76	51:15	1.064	1.059	1.069	51.1487
	PCB-199	2.16e+07	0.91	y	0.80	51:21	1.066	1.061	1.071	47.8578
-	PCB-196/203	4.53e+07	0.92	y	0.80	51:37	1.071	1.066	1.076	100.108
-	PCB-195	3.20e+07	0.89	y	1.23	52:45	0.984	0.979	0.989	50.6536
	PCB-194	3.08e+07	0.92	y	1.21	53:37	1.000	0.995	1.005	49.2456
	PCB-205	3.93e+07	0.92	y	1.54	53:55	1.006	1.001	1.011	49.3837
	PCB-208	3.24e+07	1.34	y	0.93	52:53	1.000	0.995	1.005	49.6730
	PCB-207	3.78e+07	1.32	y	1.08	53:12	1.006	1.001	1.011	49.8284
	PCB-206	2.13e+07	1.36	y	1.02	55:20	1.000	0.995	1.005	49.3149
	PCB-209	2.30e+07	1.21	y	1.17	56:38	1.000	0.995	1.005	51.1001

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	3.01e+08	3.00	y	16:25	1.27	154.481	
Total Di-PCB	2.26e+09	1.65	y	20:14	1.21	1208.89	
Total Tri-PCB	5.48e+08	1.05	y	24:15	1.10	402.442	
Total Tri-PCB	1.30e+09	1.03	y	27:52	1.21	807.063	Sum:1209.50
Total Tetra-PCB	2.49e+09	0.78	y	27:57	1.09	2080.43	
Total Penta-PCB	1.69e+09	1.57	y	32:35	1.18	2047.61	
Total Penta-PCB	3.13e+08	1.65	y	42:07	1.25	268.155	Sum:2315.77
Total Hexa-PCB	4.35e+08	1.27	y	36:57	0.90	682.032	
Total Hexa-PCB	1.26e+09	1.25	y	42:02	1.11	1398.33	Sum:2080.36
Total Hepta-PCB	9.18e+08	1.05	y	42:46	1.42	1205.33	
Total Octa-PCB	2.43e+08	0.94	y	48:12	0.96	447.388	
Total Octa-PCB	1.04e+08	0.89	y	52:45	1.33	151.653	Sum:599.041
Total Nona-PCB	9.23e+07	1.34	y	52:53	1.01	150.101	
Total Deca-PCB	2.30e+07	1.21	y	56:38	1.17	51.1001	

Total PCB Conc:10960.1670500

RL: MONO, TRI - DECA: _____

Integrations by Analyst: DMS

Date: 6/24/14

Client ID: PCB CS3 14F1302 Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49 ConCal: NA
Lab ID: ST140623E2-4 GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.000 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.53e+08	3.37 y	0.87	16:24	0.632	0.629	0.635	98.7	98.7
13C-PCB-3	1.54e+08	3.41 y	0.91	18:54	0.729	0.725	0.733	94.8	94.8
13C-PCB-4	1.04e+08	1.58 y	0.59	20:11	0.779	0.775	0.783	99.7	99.7
13C-PCB-9	1.59e+08	1.59 y	0.90	21:55	0.846	0.842	0.850	99.2	99.2
13C-PCB-11	1.64e+08	1.57 y	0.94	25:13	0.973	0.968	0.978	98.2	98.2
13C-PCB-19	9.46e+07	1.07 y	0.53	24:14	0.935	0.930	0.940	99.8	99.8
13C-PCB-28	1.40e+08	1.06 y	0.93	29:01	1.004	0.999	1.009	98.7	98.7
13C-PCB-32	1.39e+08	1.09 y	0.80	27:06	1.045	1.040	1.050	98.2	98.2
13C-PCB-37	1.20e+08	1.07 y	0.84	32:52	1.137	1.131	1.143	94.4	94.4
13C-PCB-47	1.02e+08	0.79 y	0.81	31:54	0.870	0.866	0.874	101	101
13C-PCB-52	9.72e+07	0.80 y	0.77	31:24	0.857	0.853	0.861	101	101
13C-PCB-54	1.23e+08	0.81 y	0.97	27:55	0.762	0.758	0.766	101	101
13C-PCB-70	1.22e+08	0.78 y	1.00	35:25	0.966	0.961	0.971	97.6	97.6
13C-PCB-77	1.14e+08	0.78 y	0.94	39:32	1.078	1.073	1.083	96.6	96.6
13C-PCB-80	1.27e+08	0.80 y	1.03	35:49	0.977	0.972	0.982	98.0	98.0
13C-PCB-81	1.12e+08	0.79 y	0.92	38:56	1.062	1.057	1.067	96.6	96.6
13C-PCB-95	6.27e+07	1.59 y	0.74	35:43	0.913	0.908	0.918	99.4	99.4
13C-PCB-97	5.89e+07	1.59 y	0.70	38:42	0.989	0.984	0.994	98.2	98.2
13C-PCB-101	6.57e+07	1.54 y	0.78	37:23	0.956	0.951	0.961	98.6	98.6
13C-PCB-104	8.52e+07	1.57 y	1.00	32:34	0.832	0.828	0.836	100.0	100.0
13C-PCB-105	9.17e+07	1.60 y	1.37	42:58	0.929	0.924	0.934	96.9	96.9
13C-PCB-114	9.33e+07	1.60 y	1.36	42:06	0.910	0.905	0.915	98.7	98.7
13C-PCB-118	7.79e+07	1.58 y	0.96	41:26	1.059	1.054	1.064	95.4	95.4
13C-PCB-123	7.37e+07	1.61 y	0.89	41:15	1.055	1.050	1.060	96.8	96.8
13C-PCB-126	9.05e+07	1.58 y	1.31	45:12	0.977	0.972	0.982	99.9	99.9
13C-PCB-127	1.00e+08	1.57 y	1.47	43:17	0.936	0.931	0.941	98.2	98.2
13C-PCB-138	7.71e+07	1.29 y	1.10	44:42	0.966	0.961	0.971	101	101
13C-PCB-141	7.45e+07	1.28 y	1.07	43:51	0.948	0.943	0.953	100.0	100.0
13C-PCB-153	7.92e+07	1.29 y	1.15	43:07	0.932	0.927	0.937	99.7	99.7
13C-PCB-155	7.08e+07	1.29 y	0.84	36:55	0.944	0.939	0.949	99.1	99.1
13C-PCB-156	8.85e+07	1.29 y	1.30	47:58	1.037	1.032	1.042	98.4	98.4
13C-PCB-157	9.20e+07	1.29 y	1.36	48:15	1.043	1.038	1.048	97.7	97.7
13C-PCB-159	8.48e+07	1.27 y	1.25	45:59	0.994	0.989	0.999	98.0	98.0
13C-PCB-167	9.22e+07	1.30 y	1.35	46:40	1.009	1.004	1.014	98.4	98.4
13C-PCB-169	8.62e+07	1.27 y	1.29	50:19	1.088	1.083	1.093	96.7	96.7
13C-PCB-170	3.66e+07	0.47 y	0.54	50:40	1.095	1.089	1.101	97.2	97.2
13C-PCB-180	4.63e+07	0.47 y	0.68	49:15	1.065	1.060	1.070	97.7	97.7
13C-PCB-188	6.40e+07	0.46 y	0.92	42:45	0.924	0.919	0.929	101	101
13C-PCB-189	4.78e+07	0.47 y	0.72	52:07	1.126	1.120	1.132	96.3	96.3
13C-PCB-194	5.16e+07	0.92 y	0.80	53:36	0.995	0.990	1.000	99.4	99.4
13C-PCB-202	5.65e+07	0.94 y	0.84	48:11	1.041	1.036	1.046	97.2	97.2
13C-PCB-206	4.23e+07	0.78 y	0.65	55:19	1.026	1.021	1.031	100.0	100.0
13C-PCB-208	7.00e+07	0.78 y	1.08	52:53	0.981	0.976	0.986	99.5	99.5
13C-PCB-209	3.85e+07	1.23 y	0.61	56:37	1.050	1.045	1.055	96.9	96.9

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.25e+08	0.79 y	1.02	37:42	1.028	1.023	1.034	98.3	98.3
13C-PCB-178	4.30e+07	0.46 y	0.61	45:33	0.984	0.979	0.990	101	101

PS vs. IS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	1.25e+08	0.79 y	1.10	37:42	0.968	0.963	0.973	102	102
13C-PCB-178	4.30e+07	0.46 y	0.90	45:33	0.925	0.920	0.930	103	103

RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.78e+08	1.59	y	1.00	25:55	100
13C-PCB-31	1.52e+08	1.05	y	1.00	28:55	100
13C-PCB-60	1.25e+08	0.79	y	1.00	36:39	100
13C-PCB-111	8.51e+07	1.57	y	1.00	39:07	100
13C-PCB-128	6.93e+07	1.27	y	1.00	46:16	100
13C-PCB-205	6.51e+07	0.91	y	1.00	53:54	100

Analyst: DMS

Date: 6/24/14

Vista Analytical Laboratory - Injection Log Run file: 140623E2 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
140623E2	1	ST140623E2-1	DMS	23-JUN-14	11:41:57	NA	NA
140623E2	2	ST140623E2-2	DMS	23-JUN-14	12:45:53	NA	NA
140623E2	3	ST140623E2-3	DMS	23-JUN-14	13:49:52	NA	NA
140623E2	4	ST140623E2-4	DMS	23-JUN-14	14:53:49	NA	NA
140623E2	5	ST140623E2-5	DMS	23-JUN-14	15:57:45	NA	NA
140623E2	6	ST140623E2-6	DMS	23-JUN-14	17:01:39	NA	NA
140623E2	7	SOLVENT BLANK	DMS	23-JUN-14	18:05:37	NA	NA
140623E2	8	ST140623E2-7	DMS	23-JUN-14	19:09:28	NA	NA
140623E2	9	B4F0051-BS1	DMS	23-JUN-14	20:13:23	ST140623E2-4	NA
140623E2	10	SOLVENT BLANK	DMS	23-JUN-14	21:17:15	NA	NA
140623E2	11	B4F0051-BLK1	DMS	23-JUN-14	22:21:11	ST140623E2-4	NA
140623E2	12	1400418-01 1:10	DMS	23-JUN-14	23:25:05	ST140623E2-4	NA
140623E2	13	1400418-02 1:10	DMS	24-JUN-14	00:29:00	ST140623E2-4	NA
140623E2	14	1400418-03 1:10	DMS	24-JUN-14	01:32:54	ST140623E2-4	NA
140623E2	15	SOLVENT BLANK	DMS	24-JUN-14	02:36:47	NA	NA

Initial Calibration RRF Summary (ICAL) Vista Analytical Laboratory
Run: 150114E1 Analyte: Cal: pcbvg8-1-14-15 Inst. ID. VG-8

Data filename: 150114E1

Name	Mean RRF	%RSD	Samp# 4 1.0 RRF#1	Samp# 5 2.5 RRF#2	Samp# 6 50 RRF#3	Samp# 7 400 RRF#4	Samp# 8 1000 RRF#5	Samp# 2 0.25 * RRF#6
PCB-1	1.33	4.52 %	1.38	1.32	1.23	1.32	1.34	1.40
PCB-2	1.30	5.65 %	1.42	1.31	1.26	1.21	1.33	1.25
PCB-3	1.30	4.28 %	1.38	1.33	1.26	1.23	1.31	1.27
PCB-4/10	1.67	10.28 %	1.75	1.67	1.56	1.54	1.54	1.98
PCB-7/9	1.25	8.26 %	1.30	1.26	1.18	1.16	1.18	1.43
PCB-6	1.24	9.18 %	1.34	1.24	1.18	1.14	1.13	1.41
PCB-5/8	1.27	10.47 %	1.34	1.25	1.17	1.17	1.17	1.50
PCB-14	1.47	7.78 %	1.58	1.45	1.41	1.37	1.36	1.64
PCB-11	1.28	10.60 %	1.39	1.25	1.21	1.17	1.17	1.51
PCB-12/13	1.27	7.89 %	1.33	1.25	1.20	1.18	1.20	1.44
PCB-15	1.44	10.40 %	1.50	1.41	1.36	1.32	1.35	1.72
PCB-19	1.18	7.51 %	1.25	1.20	1.13	1.11	1.10	1.32
PCB-30	1.87	8.54 %	2.03	1.85	1.80	1.72	1.75	2.11
PCB-18	0.89	9.45 %	0.98	0.90	0.85	0.82	0.78	0.98
PCB-17	0.96	10.12 %	1.03	0.97	0.92	0.86	0.86	1.10
PCB-24/27	1.30	9.45 %	1.34	1.31	1.23	1.21	1.18	1.52
PCB-16/32	1.05	11.15 %	1.10	1.04	0.98	0.95	0.95	1.25
PCB-34	1.30	11.06 %	1.30	1.41	1.19	1.16	1.21	1.53
PCB-23	1.21	8.15 %	1.26	1.14	1.16	1.22	1.10	1.37
PCB-29	1.21	10.43 %	1.29	1.31	1.06	1.14	1.10	1.36
PCB-26	1.24	7.44 %	1.31	1.30	1.11	1.14	1.24	1.32
PCB-25	1.10	6.57 %	1.21	1.09	1.00	1.13	1.10	1.04
PCB-31	1.25	8.92 %	1.30	1.32	1.13	1.26	1.10	1.38
PCB-28	1.24	9.99 %	1.34	1.30	1.07	1.20	1.13	1.38
PCB-20/21/33	1.16	9.64 %	1.21	1.23	1.05	1.19	0.98	1.26
PCB-22	1.16	10.72 %	1.23	1.17	1.09	1.13	0.99	1.36
PCB-36	1.30	9.13 %	1.25	1.36	1.40	1.10	1.27	1.42
PCB-39	1.26	10.29 %	1.36	1.38	1.28	1.07	1.13	1.35
PCB-38	1.24	2.89 %	1.26	1.22	1.31	1.22	1.24	1.22
PCB-35	1.26	5.42 %	1.19	1.19	1.28	1.23	1.31	1.35
PCB-37	1.35	8.86 %	1.43	1.33	1.28	1.27	1.23	1.55
PCB-54	1.02	10.31 %	1.04	1.07	0.95	0.94	0.94	1.21
PCB-50	0.78	8.21 %	0.84	0.78	0.73	0.75	0.70	0.87
PCB-53	1.14	10.76 %	1.14	1.15	1.09	1.09	0.99	1.36
PCB-51	1.16	7.07 %	1.26	1.16	1.11	1.15	1.04	1.25
PCB-45	1.04	10.54 %	1.02	1.04	1.01	0.92	1.00	1.25
PCB-46	0.95	12.05 %	0.99	0.98	0.87	0.85	0.86	1.15
PCB-52/69	1.29	11.02 %	1.38	1.38	1.20	1.15	1.15	1.49
PCB-73	1.41	11.96 %	1.52	1.25	1.42	1.40	1.22	1.67
PCB-43/49	1.14	10.50 %	1.14	1.11	1.06	1.10	1.05	1.37
PCB-47	1.20	15.31 %	1.29	1.11	1.09	1.04	1.13	1.53

DMS 1/20/15

*=C50 Reinjected due to PCB 153 contamination.

QMS 1/20/15

PCB-48/75	1.33	10.00 %	1.39	1.32	1.20	1.24	1.23	1.56
PCB-65	1.32	14.66 %	1.41	1.33	1.13	1.22	1.15	1.64
PCB-62	1.36	13.10 %	1.46	1.27	1.28	1.15	1.31	1.66
PCB-44	0.87	16.44 %	0.91	0.87	0.80	0.76	0.75	1.13
PCB-42/59	1.24	17.44 %	1.33	1.27	1.05	1.09	1.07	1.61
PCB-41/64/71/72	1.34	13.28 %	1.39	1.35	1.14	1.28	1.21	1.65
PCB-68	1.61	19.92 %	1.69	1.57	1.30	1.45	1.43	2.21
PCB-40	0.86	17.24 %	0.93	0.84	0.71	0.78	0.77	1.11
PCB-57	1.12	17.03 %	1.23	1.12	1.03	1.00	0.90	1.44
PCB-67	1.09	14.59 %	1.18	1.11	1.00	0.99	0.91	1.35
PCB-58	1.14	12.88 %	1.24	1.09	1.12	1.00	1.00	1.37

PCB-63	1.16	14.60 %	1.26	1.16	1.10	1.05	0.96	1.44
PCB-74	1.21	14.89 %	1.31	1.20	1.08	1.12	1.04	1.52
PCB-61/70	1.13	14.67 %	1.22	1.08	1.04	0.97	1.01	1.42
PCB-76/66	1.18	16.88 %	1.25	1.12	1.06	1.06	1.03	1.55
PCB-80	1.32	13.55 %	1.40	1.32	1.20	1.18	1.20	1.65
PCB-55	1.23	13.61 %	1.29	1.19	1.13	1.08	1.15	1.54
PCB-56/60	1.11	15.55 %	1.17	1.12	0.98	1.03	0.93	1.40
PCB-79	1.16	11.65 %	1.23	1.21	1.03	1.01	1.11	1.37
PCB-78	1.18	15.63 %	1.24	1.16	1.03	1.11	1.01	1.51
PCB-81	1.29	14.36 %	1.31	1.29	1.17	1.15	1.17	1.64
PCB-77	1.29	15.01 %	1.32	1.31	1.18	1.14	1.14	1.65
PCB-104	1.26	11.04 %	1.36	1.24	1.16	1.16	1.17	1.50
PCB-96	1.09	9.21 %	1.16	1.09	0.96	1.08	1.02	1.25
PCB-103	0.97	9.45 %	1.10	0.96	0.86	0.94	0.89	1.05
PCB-100	0.96	7.05 %	1.03	0.99	0.87	0.92	0.92	1.04
PCB-94	1.13	8.09 %	1.21	1.14	1.06	1.08	1.03	1.26
PCB-95/98/102	1.29	10.92 %	1.37	1.31	1.16	1.22	1.16	1.52
PCB-93	1.06	13.28 %	1.14	1.05	1.13	0.82	1.01	1.23
PCB-88/91	1.12	10.49 %	1.27	1.11	1.12	1.00	0.99	1.26
PCB-121	1.76	11.27 %	1.84	1.74	1.57	1.55	1.79	2.09
PCB-84/92	1.07	8.45 %	1.11	1.12	1.04	1.01	0.95	1.20
PCB-89	1.00	10.58 %	1.05	1.04	0.95	0.91	0.87	1.15
PCB-90/101	1.21	11.77 %	1.28	1.22	1.13	1.09	1.07	1.45
PCB-113	1.34	9.13 %	1.37	1.42	1.39	1.24	1.15	1.48
PCB-99	1.25	17.56 %	1.42	1.22	1.03	1.05	1.17	1.59
PCB-119	1.88	8.86 %	2.00	1.89	1.77	1.76	1.72	2.15
PCB-108/112	1.41	6.60 %	1.50	1.45	1.33	1.37	1.29	1.51
PCB-83	1.66	6.92 %	1.76	1.70	1.58	1.64	1.49	1.80
PCB-97	1.30	10.69 %	1.38	1.32	1.20	1.20	1.17	1.53
PCB-86	1.03	17.33 %	1.08	0.93	0.99	0.90	0.93	1.38
PCB-87/117/125	1.59	6.14 %	1.67	1.60	1.52	1.53	1.50	1.74
PCB-111/115	1.86	9.78 %	1.89	1.86	1.77	1.72	1.71	2.20
PCB-85/116	1.39	12.01 %	1.44	1.31	1.33	1.23	1.34	1.71
PCB-120	1.99	10.45 %	2.06	2.00	1.83	1.83	1.84	2.36
PCB-110	1.70	12.10 %	1.82	1.69	1.62	1.50	1.54	2.05
PCB-82	0.74	11.63 %	0.78	0.74	0.73	0.68	0.64	0.89
PCB-124	1.30	5.43 %	1.41	1.29	1.29	1.20	1.28	1.36
PCB-107/109	1.34	11.92 %	1.40	1.33	1.21	1.22	1.24	1.62
PCB-123	1.25	9.48 %	1.24	1.29	1.21	1.15	1.15	1.47
PCB-106/118	1.29	12.71 %	1.36	1.30	1.20	1.15	1.16	1.58
PCB-114	1.45	9.74 %	1.52	1.46	1.36	1.32	1.36	1.70
PCB-122	1.22	8.66 %	1.24	1.30	1.12	1.17	1.11	1.38
PCB-105	1.56	9.15 %	1.62	1.62	1.47	1.44	1.41	1.79
PCB-127	1.31	10.47 %	1.40	1.30	1.24	1.19	1.18	1.53
PCB-126	1.41	6.08 %	1.42	1.46	1.39	1.32	1.33	1.55
PCB-155	1.20	7.21 %	1.27	1.21	1.12	1.14	1.12	1.33
PCB-150	1.13	8.78 %	1.15	1.07	1.02	1.12	1.10	1.31
PCB-152	1.17	14.36 %	1.21	1.11	1.03	1.09	1.08	1.49
PCB-145	1.09	6.93 %	1.10	1.09	1.00	1.07	1.08	1.23
PCB-136	1.14	7.24 %	1.16	1.12	1.09	1.08	1.11	1.30

PCB-148	0.82	8.69 %	0.87	0.81	0.71	0.79	0.80	0.92
PCB-154	0.89	11.57 %	0.89	0.89	0.80	0.84	0.84	1.09
PCB-151	0.82	6.55 %	0.85	0.80	0.75	0.79	0.80	0.91
PCB-135	0.80	7.09 %	0.78	0.80	0.72	0.78	0.81	0.89
PCB-144	0.86	9.26 %	0.87	0.77	0.78	0.85	0.87	0.99
PCB-147	0.78	10.69 %	0.80	0.72	0.68	0.75	0.81	0.92
PCB-139/149	0.87	8.00 %	0.87	0.85	0.77	0.86	0.88	0.99
PCB-140	0.78	8.58 %	0.80	0.76	0.70	0.76	0.76	0.90
PCB-134/143	0.93	8.74 %	0.93	0.94	0.85	0.90	0.88	1.08
PCB-133/142	0.91	6.06 %	0.95	0.89	0.85	0.89	0.88	1.00
PCB-131	0.85	6.74 %	0.94	0.85	0.79	0.81	0.80	0.89

PCB-146/165	1.08	4.94 %	1.13	1.08	1.01	1.05	1.06	1.15
PCB-132/161	1.12	8.35 %	1.19	1.12	1.04	1.03	1.07	1.26
PCB-153	1.20	18.86 %	1.31	1.19	1.04	1.03	1.02	1.60
PCB-168	1.36	6.98 %	1.37	1.39	1.27	1.28	1.31	1.52
PCB-141	1.16	10.89 %	1.25	1.16	1.05	1.06	1.06	1.36
PCB-137	1.18	10.18 %	1.27	1.16	1.07	1.09	1.10	1.38
PCB-130	0.92	9.18 %	0.95	0.80	0.89	0.90	0.92	1.06
PCB-138/163/164	1.38	11.94 %	1.43	1.35	1.27	1.28	1.26	1.69
PCB-158/160	1.48	12.88 %	1.51	1.44	1.37	1.35	1.34	1.84
PCB-129	0.99	13.56 %	1.06	0.96	0.88	0.94	0.87	1.23
PCB-166	1.14	10.59 %	1.18	1.10	1.06	1.06	1.08	1.37
PCB-159	1.22	9.93 %	1.21	1.22	1.17	1.13	1.15	1.46
PCB-128/162	1.03	8.90 %	1.07	1.05	0.97	0.97	0.96	1.20
PCB-167	1.18	10.96 %	1.23	1.18	1.10	1.09	1.09	1.42
PCB-156	1.27	7.87 %	1.31	1.30	1.19	1.19	1.19	1.44
PCB-157	1.22	9.73 %	1.29	1.24	1.13	1.12	1.13	1.41
PCB-169	1.07	6.63 %	1.08	1.10	1.02	1.02	1.03	1.20
PCB-188	1.52	12.80 %	1.60	1.46	1.43	1.38	1.38	1.88
PCB-184	1.34	8.74 %	1.42	1.37	1.27	1.23	1.22	1.51
PCB-179	1.39	10.02 %	1.47	1.41	1.33	1.27	1.25	1.62
PCB-176	1.45	9.52 %	1.52	1.46	1.40	1.34	1.32	1.69
PCB-186	1.46	10.56 %	1.52	1.44	1.37	1.33	1.34	1.73
PCB-178	1.07	12.94 %	1.18	1.07	1.00	0.96	0.94	1.30
PCB-175	1.05	10.07 %	1.12	1.03	1.01	0.94	0.97	1.22
PCB-182/187	1.14	9.45 %	1.21	1.15	1.06	1.05	1.03	1.31
PCB-183	1.22	10.61 %	1.33	1.26	1.16	1.10	1.08	1.40
PCB-185	1.40	10.38 %	1.43	1.40	1.34	1.32	1.27	1.68
PCB-174	1.29	7.93 %	1.34	1.26	1.25	1.19	1.22	1.47
PCB-181	1.35	6.04 %	1.34	1.43	1.30	1.31	1.25	1.46
PCB-177	1.27	12.30 %	1.27	1.32	1.16	1.17	1.13	1.55
PCB-171	1.46	8.76 %	1.52	1.43	1.34	1.38	1.38	1.68
PCB-173	1.10	5.77 %	1.13	1.10	1.08	1.04	1.06	1.22
PCB-172	1.35	12.56 %	1.35	1.24	1.27	1.30	1.27	1.69
PCB-192	1.74	9.92 %	1.83	1.64	1.61	1.67	1.63	2.05
PCB-180	1.45	14.04 %	1.57	1.42	1.32	1.30	1.29	1.80
PCB-193	1.85	10.11 %	1.97	1.77	1.72	1.74	1.72	2.18
PCB-191	1.86	7.62 %	1.97	1.81	1.76	1.76	1.77	2.10
PCB-170	1.67	11.07 %	1.73	1.65	1.56	1.52	1.55	2.01
PCB-190	2.25	7.94 %	2.26	2.12	2.17	2.15	2.18	2.60
PCB-189	1.67	7.88 %	1.76	1.69	1.58	1.56	1.55	1.88
PCB-202	1.02	8.62 %	1.09	0.99	0.96	0.95	0.96	1.16
PCB-201	1.10	8.30 %	1.14	1.10	1.01	1.06	1.02	1.25
PCB-204	1.07	12.15 %	1.08	1.02	0.96	1.06	1.00	1.33
PCB-197	1.17	8.84 %	1.18	1.12	1.08	1.14	1.11	1.37
PCB-200	1.03	10.36 %	1.06	1.01	0.97	0.97	0.96	1.24
PCB-198	0.75	8.91 %	0.73	0.69	0.73	0.73	0.75	0.88
PCB-199	0.74	10.59 %	0.80	0.68	0.68	0.71	0.71	0.87
PCB-196/203	0.83	11.76 %	0.84	0.74	0.75	0.82	0.81	1.01
PCB-195	1.14	9.26 %	1.10	1.04	1.07	1.14	1.16	1.34
PCB-194	1.29	13.97 %	1.37	1.30	1.18	1.15	1.14	1.61

PCB-205	1.61	8.14 %	1.58	1.56	1.55	1.56	1.53	1.88
PCB-208	1.01	10.69 %	1.10	1.03	0.94	0.92	0.91	1.18
PCB-207	1.03	10.99 %	1.07	1.00	0.96	0.95	0.95	1.24
PCB-206	0.88	12.49 %	0.89	0.91	0.82	0.79	0.79	1.08
PCB-209	1.35	13.71 %	1.42	1.31	1.21	1.22	1.23	1.69
Total Mono-PCB	1.31	4.13 %	1.39	1.32	1.25	1.25	1.33	1.30
Total Di-PCB	1.32	9.07 %	1.39	1.31	1.25	1.22	1.23	1.52
Total Tri-PCB	1.20	9.46 %	1.28	1.21	1.14	1.11	1.10	1.39

Total Tri-PCB	1.23	6.59 %	1.28	1.27	1.16	1.18	1.13	1.34
Total Tetra-PCB	1.17	12.41 %	1.23	1.16	1.06	1.08	1.04	1.42
Total Penta-PCB	1.24	9.06 %	1.32	1.25	1.15	1.16	1.14	1.42
Total Penta-PCB	1.39	8.69 %	1.44	1.43	1.31	1.29	1.28	1.59
Total Hexa-PCB	0.94	8.43 %	0.96	0.92	0.85	0.91	0.93	1.09
Total Hexa-PCB	1.13	9.33 %	1.17	1.12	1.05	1.06	1.06	1.32
Total Hepta-PCB	1.37	9.78 %	1.44	1.36	1.29	1.27	1.26	1.61
Total Octa-PCB	0.95	9.73 %	0.98	0.90	0.88	0.92	0.90	1.12
Total Octa-PCB	1.35	9.69 %	1.35	1.30	1.27	1.28	1.28	1.61
Total Nona-PCB	0.99	10.97 %	1.04	0.99	0.92	0.90	0.90	1.18
Total Deca-PCB	1.35	13.71 %	1.42	1.31	1.21	1.22	1.23	1.69
13C-PCB-1	0.91	8.84 %	0.97	0.98	0.98	0.87	0.78	0.87
13C-PCB-3	0.94	7.32 %	0.95	0.94	0.95	0.99	0.81	1.01
13C-PCB-4	0.60	4.10 %	0.61	0.61	0.62	0.61	0.57	0.57
13C-PCB-9	0.96	2.48 %	0.97	0.98	0.98	0.97	0.92	0.95
13C-PCB-11	0.95	1.55 %	0.95	0.97	0.96	0.96	0.93	0.95
13C-PCB-19	0.56	2.90 %	0.57	0.58	0.56	0.57	0.54	0.54
13C-PCB-32	0.83	2.16 %	0.84	0.83	0.82	0.85	0.81	0.80
13C-PCB-28	1.07	9.16 %	1.09	1.00	1.21	0.96	1.15	1.00
13C-PCB-37	0.96	6.55 %	1.03	0.89	1.00	0.88	1.02	0.96
13C-PCB-54	1.06	5.00 %	1.00	1.08	1.15	1.03	1.08	1.03
13C-PCB-52	0.71	4.14 %	0.71	0.73	0.76	0.68	0.69	0.70
13C-PCB-47	0.77	5.19 %	0.74	0.74	0.84	0.78	0.79	0.73
13C-PCB-70	0.99	4.52 %	0.99	0.95	0.99	0.99	1.08	0.96
13C-PCB-80	1.02	3.31 %	1.02	0.99	1.03	1.00	1.08	1.02
13C-PCB-81	1.00	4.12 %	0.96	0.96	1.02	0.97	1.07	1.00
13C-PCB-77	0.96	4.93 %	0.94	0.94	0.98	0.93	1.06	0.95
13C-PCB-104	0.97	5.43 %	0.97	0.98	1.05	0.95	0.89	0.96
13C-PCB-95	0.70	2.72 %	0.71	0.71	0.72	0.71	0.67	0.68
13C-PCB-101	0.77	2.41 %	0.77	0.80	0.76	0.75	0.75	0.76
13C-PCB-97	0.66	1.72 %	0.66	0.67	0.66	0.65	0.64	0.66
13C-PCB-123	0.88	1.37 %	0.87	0.90	0.87	0.88	0.87	0.88
13C-PCB-118	0.94	2.58 %	0.90	0.95	0.93	0.97	0.95	0.91
13C-PCB-114	1.26	2.59 %	1.25	1.24	1.25	1.23	1.25	1.32
13C-PCB-105	1.20	4.66 %	1.21	1.20	1.19	1.11	1.21	1.29
13C-PCB-127	1.26	4.39 %	1.23	1.25	1.22	1.19	1.30	1.34
13C-PCB-126	1.13	5.54 %	1.12	1.07	1.06	1.16	1.12	1.23
13C-PCB-155	0.87	5.64 %	0.88	0.92	0.93	0.84	0.81	0.84
13C-PCB-153	1.27	2.20 %	1.26	1.27	1.29	1.23	1.27	1.31
13C-PCB-141	1.09	1.88 %	1.09	1.12	1.11	1.06	1.08	1.10
13C-PCB-138	1.12	2.25 %	1.09	1.11	1.11	1.10	1.16	1.14
13C-PCB-159	1.37	1.53 %	1.35	1.36	1.35	1.37	1.41	1.38
13C-PCB-167	1.38	2.42 %	1.37	1.39	1.41	1.33	1.37	1.42
13C-PCB-156	1.35	2.75 %	1.30	1.34	1.33	1.35	1.41	1.37
13C-PCB-157	1.42	3.06 %	1.39	1.35	1.41	1.42	1.48	1.45
13C-PCB-169	1.38	3.38 %	1.35	1.36	1.37	1.34	1.41	1.46
13C-PCB-188	1.01	2.32 %	0.99	1.00	1.01	1.03	1.05	1.01
13C-PCB-180	0.76	2.20 %	0.73	0.75	0.76	0.75	0.78	0.77
13C-PCB-170	0.60	2.12 %	0.60	0.59	0.59	0.61	0.62	0.62
13C-PCB-189	0.80	3.20 %	0.78	0.78	0.78	0.80	0.83	0.84
13C-PCB-202	0.99	1.63 %	0.96	0.98	1.00	0.98	1.00	1.00

13C-PCB-194	0.75	3.67 %	0.78	0.77	0.75	0.72	0.72	0.73
13C-PCB-208	1.08	5.55 %	1.08	1.09	1.11	1.12	1.13	0.97
13C-PCB-206	0.73	4.68 %	0.75	0.76	0.73	0.75	0.74	0.67
13C-PCB-209	0.71	4.81 %	0.71	0.69	0.75	0.72	0.74	0.66
13C-PCB-15	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-31	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-60	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-111	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-128	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-PCB-205	1.00	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

13C-PCB-79	1.02	5.92 %	1.04	1.02	0.99	0.97	1.13	0.97
13C-PCB-178	0.64	1.49 %	0.64	0.63	0.63	0.64	0.63	0.65
13C-PCB-79	1.02	4.88 %	1.08	1.07	0.97	0.99	1.06	0.97
13C-PCB-178	0.84	2.93 %	0.88	0.85	0.83	0.85	0.80	0.84

Filename: 150114E1 S: 4 Acquired: 14-JAN-15 15:50:46
Run: 150114e1 Analyte: ICal: pcbvg8-1-14-15 Results: 150114e1
Sample text: ST150114E1-3 PCB CS1 14L2903

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	1.00	2.35e+06	3.11 y	16:11	-	1.38
2	Mono	PCB-2	1.00	2.36e+06	3.10 y	18:34	-	1.42
3	Mono	PCB-3	1.00	2.30e+06	3.03 y	18:48	-	1.38
4	Di	PCB-4/10	2.00	3.70e+06	1.55 y	20:10	-	1.75
5	Di	PCB-7/9	2.00	4.37e+06	1.61 y	21:57	-	1.30
6	Di	PCB-6	1.00	2.25e+06	1.47 y	22:36	-	1.34
7	Di	PCB-5/8	2.00	4.52e+06	1.59 y	23:01	-	1.34
8	Di	PCB-14	1.00	2.63e+06	1.54 y	24:06	-	1.58
9	Di	PCB-11	1.00	2.31e+06	1.75 y	25:18	-	1.39
10	Di	PCB-12/13	2.00	4.44e+06	1.62 y	25:42	-	1.33
11	Di	PCB-15	1.00	2.50e+06	1.76 y	26:00	-	1.50
12	Tri	PCB-19	1.00	1.25e+06	1.01 y	24:18	-	1.25
13	Tri	PCB-30	1.00	2.02e+06	1.05 y	25:11	-	2.03
14	Tri	PCB-18	1.00	1.43e+06	1.13 y	25:56	-	0.98
15	Tri	PCB-17	1.00	1.51e+06	1.06 y	26:06	-	1.03
16	Tri	PCB-24/27	2.00	3.91e+06	1.01 y	26:41	-	1.34
17	Tri	PCB-16/32	2.00	3.23e+06	1.10 y	27:11	-	1.10
18	Tri	PCB-34	1.00	1.63e+06	0.97 y	27:59	-	1.30
19	Tri	PCB-23	1.00	1.58e+06	0.97 y	28:05	-	1.26
20	Tri	PCB-29	1.00	1.62e+06	0.88 y	28:20	-	1.29
21	Tri	PCB-26	1.00	1.64e+06	1.03 y	28:32	-	1.31
22	Tri	PCB-25	1.00	1.52e+06	0.98 y	28:43	-	1.21
23	Tri	PCB-31	1.00	1.63e+06	1.07 y	29:03	-	1.30
24	Tri	PCB-28	1.00	1.68e+06	1.05 y	29:10	-	1.34
25	Tri	PCB-20/21/33	3.00	4.56e+06	1.03 y	29:46	-	1.21
26	Tri	PCB-22	1.00	1.54e+06	1.02 y	30:12	-	1.23
27	Tri	PCB-36	1.00	1.47e+06	1.12 y	30:50	-	1.25
28	Tri	PCB-39	1.00	1.60e+06	1.04 y	31:18	-	1.36
29	Tri	PCB-38	1.00	1.49e+06	1.01 y	32:05	-	1.26
30	Tri	PCB-35	1.00	1.40e+06	1.06 y	32:36	-	1.19
31	Tri	PCB-37	1.00	1.68e+06	1.09 y	33:02	-	1.43
32	Tetra	PCB-54	1.00	1.33e+06	0.82 y	28:03	-	1.04
33	Tetra	PCB-50	1.00	1.07e+06	0.70 y	29:12	-	0.84
34	Tetra	PCB-53	1.00	1.03e+06	0.70 y	29:51	-	1.14
35	Tetra	PCB-51	1.00	1.14e+06	0.66 y	30:11	-	1.26
36	Tetra	PCB-45	1.00	9.30e-05	0.74 y	30:37	-	1.02
37	Tetra	PCB-46	1.00	9.02e-05	0.68 y	31:07	-	0.99
38	Tetra	PCB-52/69	2.00	2.51e+06	0.71 y	31:35	-	1.38
39	Tetra	PCB-73	1.00	1.38e+06	0.76 y	31:42	-	1.52
40	Tetra	PCB-43/49	2.00	2.07e+06	0.78 y	31:52	-	1.14

41	Tetra	PCB-47	1.00	1.22e+06	0.78	y	32:05	- 1.29
42	Tetra	PCB-48/75	2.00	2.65e+06	0.70	y	32:12	- 1.39
43	Tetra	PCB-65	1.00	1.34e+06	0.70	y	32:28	- 1.41
44	Tetra	PCB-62	1.00	1.39e+06	0.79	y	32:33	- 1.46
45	Tetra	PCB-44	1.00	8.60e+05	0.85	y	32:53	- 0.91
46	Tetra	PCB-42/59	2.00	2.53e+06	0.74	y	33:06	- 1.33
47	Tetra	PCB-41/64/71/72	4.00	5.28e+06	0.74	y	33:40	- 1.39
48	Tetra	PCB-68	1.00	1.60e+06	0.69	y	33:56	- 1.69
49	Tetra	PCB-40	1.00	8.85e+05	0.77	y	34:09	- 0.93
50	Tetra	PCB-57	1.00	1.55e+06	0.69	y	34:31	- 1.23
51	Tetra	PCB-67	1.00	1.49e+06	0.76	y	34:50	- 1.18

52	Tetra	PCB-58	1.00	1.57e+06	0.74 y	34:56	-	1.24
53	Tetra	PCB-63	1.00	1.60e+06	0.74 y	35:06	-	1.26
54	Tetra	PCB-74	1.00	1.66e+06	0.79 y	35:23	-	1.31
55	Tetra	PCB-61/70	2.00	3.08e+06	0.69 y	35:33	-	1.22
56	Tetra	PCB-76/66	2.00	3.16e+06	0.76 y	35:46	-	1.25
57	Tetra	PCB-80	1.00	1.83e+06	0.80 y	36:00	-	1.40
58	Tetra	PCB-55	1.00	1.69e+06	0.72 y	36:19	-	1.29
59	Tetra	PCB-56/60	2.00	3.05e+06	0.71 y	36:49	-	1.17
60	Tetra	PCB-79	1.00	1.60e+06	0.78 y	37:53	-	1.23
61	Tetra	PCB-78	1.00	1.54e+06	0.78 y	38:35	-	1.24
62	Tetra	PCB-81	1.00	1.62e+06	0.72 y	39:06	-	1.31
63	Tetra	PCB-77	1.00	1.58e+06	0.76 y	39:42	-	1.32
64	Penta	PCB-104	1.00	1.21e+06	1.62 y	32:44	-	1.36
65	Penta	PCB-96	1.00	1.03e+06	1.56 y	34:00	-	1.16
66	Penta	PCB-103	1.00	9.77e+05	1.45 y	34:31	-	1.10
67	Penta	PCB-100	1.00	9.21e+05	1.70 y	34:53	-	1.03
68	Penta	PCB-94	1.00	7.88e+05	1.43 y	35:21	-	1.21
69	Penta	PCB-95/98/102	3.00	2.67e+06	1.60 y	35:51	-	1.37
70	Penta	PCB-93	1.00	7.41e+05	1.72 y	35:59	-	1.14
71	Penta	PCB-88/91	2.00	1.65e+06	1.45 y	36:16	-	1.27
72	Penta	PCB-121	1.00	1.20e+06	1.67 y	36:23	-	1.84
73	Penta	PCB-84/92	2.00	1.58e+06	1.55 y	37:12	-	1.11
74	Penta	PCB-89	1.00	7.49e+05	1.60 y	37:23	-	1.05
75	Penta	PCB-90/101	2.00	1.82e+06	1.49 y	37:33	-	1.28
76	Penta	PCB-113	1.00	9.71e+05	1.64 y	37:48	-	1.37
77	Penta	PCB-99	1.00	1.01e+06	1.55 y	37:54	-	1.42
78	Penta	PCB-119	1.00	1.22e+06	1.57 y	38:22	-	2.00
79	Penta	PCB-108/112	2.00	1.82e+06	1.55 y	38:31	-	1.50
80	Penta	PCB-83	1.00	1.07e+06	1.64 y	38:40	-	1.76
81	Penta	PCB-97	1.00	8.40e+05	1.56 y	38:53	-	1.38
82	Penta	PCB-86	1.00	6.57e+05	1.43 y	39:01	-	1.08
83	Penta	PCB-87/117/125	3.00	3.05e+06	1.55 y	39:09	-	1.67
84	Penta	PCB-111/115	2.00	2.31e+06	1.56 y	39:18	-	1.89
85	Penta	PCB-85/116	2.00	1.75e+06	1.73 y	39:26	-	1.44
86	Penta	PCB-120	1.00	1.26e+06	1.71 y	39:41	-	2.06
87	Penta	PCB-110	1.00	1.11e+06	1.71 y	39:49	-	1.82
88	Penta	PCB-82	1.00	6.26e+05	1.67 y	40:26	-	0.78
89	Penta	PCB-124	1.00	1.13e+06	1.44 y	41:07	-	1.41
90	Penta	PCB-107/109	2.00	2.24e+06	1.54 y	41:16	-	1.40
91	Penta	PCB-123	1.00	1.00e+06	1.62 y	41:26	-	1.24
92	Penta	PCB-106/118	2.00	2.26e+06	1.67 y	41:38	-	1.36
93	Penta	PCB-114	1.00	1.30e+06	1.74 y	42:16	-	1.52
94	Penta	PCB-122	1.00	1.06e+06	1.71 y	42:23	-	1.24
95	Penta	PCB-105	1.00	1.35e+06	1.66 y	43:07	-	1.62
96	Penta	PCB-127	1.00	1.18e+06	1.71 y	43:28	-	1.40
97	Penta	PCB-126	1.00	1.09e+06	1.69 y	45:21	-	1.42
98	Hexa	PCB-155	1.00	1.03e+06	1.24 y	37:07	-	1.27
99	Hexa	PCB-150	1.00	9.30e+05	1.32 y	38:22	-	1.15
100	Hexa	PCB-152	1.00	9.81e+05	1.24 y	38:52	-	1.21
101	Hexa	PCB-145	1.00	8.92e+05	1.38 y	39:18	-	1.10

102	Hexa	PCB-136	1.00	9.41e+05	1.33 y	39:37	-	1.16
103	Hexa	PCB-148	1.00	7.03e+05	1.35 y	39:43	-	0.87
104	Hexa	PCB-154	1.00	7.18e+05	1.19 y	40:14	-	0.89
105	Hexa	PCB-151	1.00	6.88e+05	1.33 y	40:51	-	0.85
106	Hexa	PCB-135	1.00	6.28e+05	1.20 y	41:05	-	0.78
107	Hexa	PCB-144	1.00	7.04e+05	1.27 y	41:10	-	0.87
108	Hexa	PCB-147	1.00	6.51e+05	1.41 y	41:18	-	0.80
109	Hexa	PCB-139/149	2.00	1.40e+06	1.21 y	41:34	-	0.87
110	Hexa	PCB-140	1.00	6.48e+05	1.30 y	41:46	-	0.80
111	Hexa	PCB-134/143	2.00	1.60e+06	1.14 y	42:12	-	0.93
112	Hexa	PCB-133/142	2.00	1.64e+06	1.33 y	42:29	-	0.95

113	Hexa	PCB-131	1.00	8.08e+05	1.26 y	42:38	-	0.94
114	Hexa	PCB-146/165	2.00	1.96e+06	1.28 y	42:52	-	1.13
115	Hexa	PCB-132/161	2.00	2.06e+06	1.27 y	43:07	-	1.19
116	Hexa	PCB-153	1.00	1.13e+06	1.23 y	43:18	-	1.31
117	Hexa	PCB-168	1.00	1.18e+06	1.09 y	43:30	-	1.37
118	Hexa	PCB-141	1.00	9.29e+05	1.17 y	44:02	-	1.25
119	Hexa	PCB-137	1.00	9.45e+05	1.20 y	44:25	-	1.27
120	Hexa	PCB-130	1.00	7.07e+05	1.13 y	44:31	-	0.95
121	Hexa	PCB-138/163/164	3.00	3.22e+06	1.21 y	44:54	-	1.43
122	Hexa	PCB-158/160	2.00	2.26e+06	1.24 y	45:08	-	1.51
123	Hexa	PCB-129	1.00	7.93e+05	1.31 y	45:23	-	1.06
124	Hexa	PCB-166	1.00	1.09e+06	1.28 y	45:49	-	1.18
125	Hexa	PCB-159	1.00	1.13e+06	1.11 y	46:09	-	1.21
126	Hexa	PCB-128/162	2.00	1.98e+06	1.23 y	46:26	-	1.07
127	Hexa	PCB-167	1.00	1.15e+06	1.12 y	46:50	-	1.23
128	Hexa	PCB-156	1.00	1.17e+06	1.37 y	48:07	-	1.31
129	Hexa	PCB-157	1.00	1.24e+06	1.29 y	48:23	-	1.29
130	Hexa	PCB-169	1.00	1.00e+06	1.13 y	50:32	-	1.08
131	Hepta	PCB-188	1.00	1.09e+06	1.07 y	42:56	-	1.60
132	Hepta	PCB-184	1.00	9.60e+05	1.07 y	43:22	-	1.42
133	Hepta	PCB-179	1.00	9.94e+05	0.98 y	44:09	-	1.47
134	Hepta	PCB-176	1.00	1.03e+06	1.02 y	44:37	-	1.52
135	Hepta	PCB-186	1.00	1.03e+06	1.08 y	45:13	-	1.52
136	Hepta	PCB-178	1.00	7.97e+05	0.98 y	45:43	-	1.18
137	Hepta	PCB-175	1.00	7.60e+05	1.10 y	46:04	-	1.12
138	Hepta	PCB-182/187	2.00	1.64e+06	0.98 y	46:14	-	1.21
139	Hepta	PCB-183	1.00	9.02e+05	1.10 y	46:33	-	1.33
140	Hepta	PCB-185	1.00	7.20e+05	1.10 y	47:12	-	1.43
141	Hepta	PCB-174	1.00	6.73e+05	0.92 y	47:34	-	1.34
142	Hepta	PCB-181	1.00	6.72e+05	0.96 y	47:41	-	1.34
143	Hepta	PCB-177	1.00	6.37e+05	1.01 y	47:51	-	1.27
144	Hepta	PCB-171	1.00	7.64e+05	1.06 y	48:08	-	1.52
145	Hepta	PCB-173	1.00	5.68e+05	0.94 y	48:34	-	1.13
146	Hepta	PCB-172	1.00	6.81e+05	1.09 y	49:01	-	1.35
147	Hepta	PCB-192	1.00	9.21e+05	1.03 y	49:13	-	1.83
148	Hepta	PCB-180	1.00	7.89e+05	0.96 y	49:25	-	1.57
149	Hepta	PCB-193	1.00	9.90e+05	0.98 y	49:37	-	1.97
150	Hepta	PCB-191	1.00	9.89e+05	0.99 y	49:53	-	1.97
151	Hepta	PCB-170	1.00	7.14e+05	0.92 y	50:56	-	1.73
152	Hepta	PCB-190	1.00	9.30e+05	1.10 y	51:06	-	2.26
153	Hepta	PCB-189	1.00	9.45e+05	1.11 y	52:27	-	1.76
154	Octa	PCB-202	1.00	7.24e+05	0.77 y	48:21	-	1.09
155	Octa	PCB-201	1.00	7.55e+05	0.84 y	48:50	-	1.14
156	Octa	PCB-204	1.00	7.15e+05	0.96 y	48:59	-	1.08
157	Octa	PCB-197	1.00	7.78e+05	0.82 y	49:16	-	1.18
158	Octa	PCB-200	1.00	7.01e+05	0.87 y	50:10	-	1.06
159	Octa	PCB-198	1.00	4.84e+05	0.84 y	51:31	-	0.73
160	Octa	PCB-199	1.00	5.29e+05	0.89 y	51:38	-	0.80
161	Octa	PCB-196/203	2.00	1.12e+06	0.95 y	51:55	-	0.84
162	Octa	PCB-195	1.00	5.76e+05	0.88 y	53:05	-	1.10

163	Octa		PCB-194	1.00	7.18e+05	0.90	y	53:57	- 1.37
164	Octa		PCB-205	1.00	8.28e+05	0.91	y	54:14	- 1.58
165	Nona		PCB-208	1.00	7.99e+05	1.27	y	53:14	- 1.10
166	Nona		PCB-207	1.00	7.76e+05	1.14	y	53:33	- 1.07
167	Nona		PCB-206	1.00	4.50e+05	1.29	y	55:35	- 0.89
168	Deca		PCB-209	1.00	6.79e+05	1.05	y	56:57	- 1.42
169	Tot ╗	Total Mono-PCB		0.00	-	-	n	-	- 1.39
170	Tot ╗	Total Di-PCB		0.00	-	-	n	-	- 1.39

171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.28
172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.28
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.23
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.32
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.44
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.96
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.17
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.44
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.98
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.35
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.04
182	Tot ╗	Total Deca-PCB	1.00	6.79e+05	1.05	y	56:57	-	1.42
183	Mono╗	13C-PCB-1	100.00	1.70e+08	3.57	y	16:10	-	0.97
184	Mono╗	13C-PCB-3	100.00	1.67e+08	3.59	y	18:47	-	0.95
185	Di-IS	13C-PCB-4	100.00	1.06e+08	1.60	y	20:07	-	0.61
186	Di-IS	13C-PCB-9	100.00	1.69e+08	1.58	y	21:55	-	0.97
187	Di-IS	13C-PCB-11	100.00	1.67e+08	1.56	y	25:17	-	0.95
188	Tri-╗	13C-PCB-19	100.00	9.99e+07	1.10	y	24:16	-	0.57
189	Tri-╗	13C-PCB-32	100.00	1.46e+08	1.10	y	27:11	-	0.84
190	Tri-╗	13C-PCB-28	100.00	1.25e+08	1.03	y	29:09	-	1.09
191	Tri-╗	13C-PCB-37	100.00	1.18e+08	1.04	y	33:01	-	1.03
192	Tetr╗	13C-PCB-54	100.00	1.28e+08	0.77	y	28:02	-	1.00
193	Tetr╗	13C-PCB-52	100.00	9.09e+07	0.78	y	31:33	-	0.71
194	Tetr╗	13C-PCB-47	100.00	9.50e+07	0.76	y	32:04	-	0.74
195	Tetr╗	13C-PCB-70	100.00	1.26e+08	0.78	y	35:35	-	0.99
196	Tetr╗	13C-PCB-80	100.00	1.30e+08	0.79	y	36:00	-	1.02
197	Tetr╗	13C-PCB-81	100.00	1.24e+08	0.77	y	39:05	-	0.96
198	Tetr╗	13C-PCB-77	100.00	1.20e+08	0.79	y	39:41	-	0.94
199	Pent╗	13C-PCB-104	100.00	8.90e+07	1.62	y	32:43	-	0.97
200	Pent╗	13C-PCB-95	100.00	6.51e+07	1.60	y	35:52	-	0.71
201	Pent╗	13C-PCB-101	100.00	7.10e+07	1.68	y	37:33	-	0.77
202	Pent╗	13C-PCB-97	100.00	6.10e+07	1.61	y	38:52	-	0.66
203	Pent╗	13C-PCB-123	100.00	8.03e+07	1.65	y	41:25	-	0.87
204	Pent╗	13C-PCB-118	100.00	8.33e+07	1.62	y	41:36	-	0.90
205	Pent╗	13C-PCB-114	100.00	8.57e+07	1.57	y	42:15	-	1.25
206	Pent╗	13C-PCB-105	100.00	8.29e+07	1.58	y	43:07	-	1.21
207	Pent╗	13C-PCB-127	100.00	8.47e+07	1.60	y	43:27	-	1.23
208	Pent╗	13C-PCB-126	100.00	7.66e+07	1.55	y	45:21	-	1.12
209	Hexa╗	13C-PCB-155	100.00	8.10e+07	1.26	y	37:06	-	0.88
210	Hexa╗	13C-PCB-153	100.00	8.63e+07	1.26	y	43:16	-	1.26
211	Hexa╗	13C-PCB-141	100.00	7.46e+07	1.29	y	44:00	-	1.09
212	Hexa	13C-PCB-138	100.00	7.51e+07	1.24	y	44:51	-	1.09
213	Hexa╗	13C-PCB-159	100.00	9.27e+07	1.26	y	46:08	-	1.35
214	Hexa╗	13C-PCB-167	100.00	9.41e+07	1.25	y	46:49	-	1.37
215	Hexa╗	13C-PCB-156	100.00	8.95e+07	1.29	y	48:07	-	1.30
216	Hexa╗	13C-PCB-157	100.00	9.57e+07	1.30	y	48:23	-	1.39
217	Hexa╗	13C-PCB-169	100.00	9.25e+07	1.28	y	50:32	-	1.35
218	Hept╗	13C-PCB-188	100.00	6.78e+07	0.45	y	42:54	-	0.99
219	Hept╗	13C-PCB-180	100.00	5.03e+07	0.47	y	49:24	-	0.73
220	Hept╗	13C-PCB-170	100.00	4.12e+07	0.45	y	50:54	-	0.60
221	Hept╗	13C-PCB-189	100.00	5.36e+07	0.47	y	52:26	-	0.78

222	Octa┐	13C-PCB-202	100.00	6.61e+07	0.92 y	48:19	-	0.96
223	Octa┐	13C-PCB-194	100.00	5.23e+07	0.90 y	53:56	-	0.78
224	Nona┐	13C-PCB-208	100.00	7.26e+07	0.77 y	53:13	-	1.08
225	Nona┐	13C-PCB-206	100.00	5.04e+07	0.78 y	55:34	-	0.75
226	Deca┐	13C-PCB-209	100.00	4.78e+07	1.19 y	56:56	-	0.71
227	DI-RS	13C-PCB-15	100.00	1.75e+08	1.56 y	26:00	-	1.00
228	Tri-┐	13C-PCB-31	100.00	1.15e+08	1.03 y	29:02	-	1.00
229	Tetr┐	13C-PCB-60	100.00	1.28e+08	0.78 y	36:49	-	1.00
230	Penta	13C-PCB-111	100.00	9.21e+07	1.63 y	39:17	-	1.00
231	Hexa┐	13C-PCB-128	100.00	6.87e+07	1.27 y	46:25	-	1.00

232	Octa╗	13C-PCB-205	100.00	6.70e+07	0.88 y	54:13	-	1.00
233	CRS	13C-PCB-79	100.00	1.34e+08	0.79 y	37:52	-	1.04
234	CRS	13C-PCB-178	100.00	4.42e+07	0.46 y	45:42	-	0.64
235	PS	13C-PCB-79	100.00	1.34e+08	0.79 y	37:52	-	1.08
236	PS	13C-PCB-178	100.00	4.42e+07	0.46 y	45:42	-	0.88

Filename: 150114E1 S: 5 Acquired: 14-JAN-15 16:55:24
Run: 150114e1 Analyte: ICal: pcbvg8-1-14-15 Results: 150114e1
Sample text: ST150114E1-4 PCB CS2 14L2904

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	2.50	5.57e+06	3.10 y	16:11	-	1.32
2	Mono	PCB-2	2.50	5.30e+06	3.00 y	18:33	-	1.31
3	Mono	PCB-3	2.50	5.37e+06	3.04 y	18:48	-	1.33
4	Di	PCB-4/10	5.00	8.76e+06	1.64 y	20:10	-	1.67
5	Di	PCB-7/9	5.00	1.06e+07	1.75 y	21:57	-	1.26
6	Di	PCB-6	2.50	5.18e+06	1.70 y	22:36	-	1.24
7	Di	PCB-5/8	5.00	1.05e+07	1.64 y	23:01	-	1.25
8	Di	PCB-14	2.50	6.03e+06	1.67 y	24:06	-	1.45
9	Di	PCB-11	2.50	5.22e+06	1.71 y	25:18	-	1.25
10	Di	PCB-12/13	5.00	1.04e+07	1.62 y	25:41	-	1.25
11	Di	PCB-15	2.50	5.86e+06	1.59 y	26:00	-	1.41
12	Tri	PCB-19	2.50	3.00e+06	1.04 y	24:17	-	1.20
13	Tri	PCB-30	2.50	4.60e+06	1.06 y	25:11	-	1.85
14	Tri	PCB-18	2.50	3.22e+06	1.05 y	25:56	-	0.90
15	Tri	PCB-17	2.50	3.45e+06	1.03 y	26:06	-	0.97
16	Tri	PCB-24/27	5.00	9.33e+06	1.06 y	26:41	-	1.31
17	Tri	PCB-16/32	5.00	7.45e+06	1.05 y	27:11	-	1.04
18	Tri	PCB-34	2.50	4.16e+06	1.01 y	27:59	-	1.41
19	Tri	PCB-23	2.50	3.35e+06	1.05 y	28:05	-	1.14
20	Tri	PCB-29	2.50	3.86e+06	1.02 y	28:20	-	1.31
21	Tri	PCB-26	2.50	3.84e+06	1.08 y	28:32	-	1.30
22	Tri	PCB-25	2.50	3.22e+06	1.07 y	28:41	-	1.09
23	Tri	PCB-31	2.50	3.90e+06	1.02 y	29:03	-	1.32
24	Tri	PCB-28	2.50	3.83e+06	1.03 y	29:09	-	1.30
25	Tri	PCB-20/21/33	7.50	1.09e+07	1.03 y	29:46	-	1.23
26	Tri	PCB-22	2.50	3.46e+06	1.06 y	30:12	-	1.17
27	Tri	PCB-36	2.50	3.56e+06	1.01 y	30:50	-	1.36
28	Tri	PCB-39	2.50	3.61e+06	1.03 y	31:17	-	1.38
29	Tri	PCB-38	2.50	3.19e+06	1.11 y	32:04	-	1.22
30	Tri	PCB-35	2.50	3.11e+06	1.13 y	32:36	-	1.19
31	Tri	PCB-37	2.50	3.49e+06	1.03 y	33:02	-	1.33
32	Tetra	PCB-54	2.50	3.51e+06	0.73 y	28:02	-	1.07
33	Tetra	PCB-50	2.50	2.59e+06	0.74 y	29:12	-	0.78
34	Tetra	PCB-53	2.50	2.54e+06	0.71 y	29:51	-	1.15
35	Tetra	PCB-51	2.50	2.57e+06	0.77 y	30:11	-	1.16
36	Tetra	PCB-45	2.50	2.31e+06	0.78 y	30:37	-	1.04
37	Tetra	PCB-46	2.50	2.17e+06	0.77 y	31:07	-	0.98
38	Tetra	PCB-52/69	5.00	6.13e+06	0.74 y	31:35	-	1.38
39	Tetra	PCB-73	2.50	2.77e+06	0.78 y	31:42	-	1.25
40	Tetra	PCB-43/49	5.00	4.93e+06	0.75 y	31:52	-	1.11
41	Tetra	PCB-47	2.50	2.50e+06	0.77 y	32:04	-	1.11

42	Tetra	PCB-48/75	5.00	5.98e+06	0.73 y	32:11	-	1.32
43	Tetra	PCB-65	2.50	3.01e+06	0.69 y	32:28	-	1.33
44	Tetra	PCB-62	2.50	2.87e+06	0.75 y	32:34	-	1.27
45	Tetra	PCB-44	2.50	1.97e+06	0.67 y	32:52	-	0.87
46	Tetra	PCB-42/59	5.00	5.75e+06	0.74 y	33:06	-	1.27
47	Tetra	PCB-41/64/71/72	10.00	1.22e+07	0.74 y	33:41	-	1.35
48	Tetra	PCB-68	2.50	3.54e+06	0.72 y	33:56	-	1.57
49	Tetra	PCB-40	2.50	1.90e+06	0.77 y	34:09	-	0.84
50	Tetra	PCB-57	2.50	3.26e+06	0.80 y	34:31	-	1.12
51	Tetra	PCB-67	2.50	3.25e+06	0.70 y	34:49	-	1.11
52	Tetra	PCB-58	2.50	3.17e+06	0.72 y	34:56	-	1.09

53	Tetra	PCB-63	2.50	3.38e+06	0.69 y	35:06	-	1.16
54	Tetra	PCB-74	2.50	3.48e+06	0.73 y	35:23	-	1.20
55	Tetra	PCB-61/70	5.00	6.32e+06	0.68 y	35:33	-	1.08
56	Tetra	PCB-76/66	5.00	6.53e+06	0.75 y	35:46	-	1.12
57	Tetra	PCB-80	2.50	3.97e+06	0.74 y	36:00	-	1.32
58	Tetra	PCB-55	2.50	3.60e+06	0.75 y	36:19	-	1.19
59	Tetra	PCB-56/60	5.00	6.76e+06	0.76 y	36:49	-	1.12
60	Tetra	PCB-79	2.50	3.65e+06	0.72 y	37:53	-	1.21
61	Tetra	PCB-78	2.50	3.42e+06	0.74 y	38:35	-	1.16
62	Tetra	PCB-81	2.50	3.78e+06	0.73 y	39:06	-	1.29
63	Tetra	PCB-77	2.50	3.77e+06	0.76 y	39:42	-	1.31
64	Penta	PCB-104	2.50	2.66e+06	1.51 y	32:44	-	1.24
65	Penta	PCB-96	2.50	2.34e+06	1.66 y	33:59	-	1.09
66	Penta	PCB-103	2.50	2.06e+06	1.55 y	34:31	-	0.96
67	Penta	PCB-100	2.50	2.12e+06	1.63 y	34:53	-	0.99
68	Penta	PCB-94	2.50	1.77e+06	1.57 y	35:20	-	1.14
69	Penta	PCB-95/98/102	7.50	6.08e+06	1.61 y	35:50	-	1.31
70	Penta	PCB-93	2.50	1.62e+06	1.42 y	35:58	-	1.05
71	Penta	PCB-88/91	5.00	3.44e+06	1.55 y	36:15	-	1.11
72	Penta	PCB-121	2.50	2.69e+06	1.55 y	36:22	-	1.74
73	Penta	PCB-84/92	5.00	3.93e+06	1.62 y	37:12	-	1.12
74	Penta	PCB-89	2.50	1.84e+06	1.52 y	37:22	-	1.04
75	Penta	PCB-90/101	5.00	4.29e+06	1.56 y	37:33	-	1.22
76	Penta	PCB-113	2.50	2.50e+06	1.56 y	37:48	-	1.42
77	Penta	PCB-99	2.50	2.14e+06	1.54 y	37:54	-	1.22
78	Penta	PCB-119	2.50	2.79e+06	1.62 y	38:21	-	1.89
79	Penta	PCB-108/112	5.00	4.27e+06	1.62 y	38:30	-	1.45
80	Penta	PCB-83	2.50	2.51e+06	1.64 y	38:40	-	1.70
81	Penta	PCB-97	2.50	1.95e+06	1.50 y	38:52	-	1.32
82	Penta	PCB-86	2.50	1.37e+06	1.47 y	39:01	-	0.93
83	Penta	PCB-87/117/125	7.50	7.08e+06	1.62 y	39:08	-	1.60
84	Penta	PCB-111/115	5.00	5.48e+06	1.46 y	39:18	-	1.86
85	Penta	PCB-85/116	5.00	3.87e+06	1.60 y	39:26	-	1.31
86	Penta	PCB-120	2.50	2.96e+06	1.50 y	39:39	-	2.00
87	Penta	PCB-110	2.50	2.50e+06	1.58 y	39:48	-	1.69
88	Penta	PCB-82	2.50	1.46e+06	1.65 y	40:26	-	0.74
89	Penta	PCB-124	2.50	2.56e+06	1.52 y	41:06	-	1.29
90	Penta	PCB-107/109	5.00	5.26e+06	1.53 y	41:15	-	1.33
91	Penta	PCB-123	2.50	2.55e+06	1.55 y	41:25	-	1.29
92	Penta	PCB-106/118	5.00	5.39e+06	1.55 y	41:38	-	1.30
93	Penta	PCB-114	2.50	3.07e+06	1.72 y	42:15	-	1.46
94	Penta	PCB-122	2.50	2.74e+06	1.68 y	42:23	-	1.30
95	Penta	PCB-105	2.50	3.30e+06	1.60 y	43:07	-	1.62
96	Penta	PCB-127	2.50	2.77e+06	1.59 y	43:27	-	1.30
97	Penta	PCB-126	2.50	2.66e+06	1.59 y	45:21	-	1.46
98	Hexa	PCB-155	2.50	2.45e+06	1.27 y	37:07	-	1.21
99	Hexa	PCB-150	2.50	2.17e+06	1.23 y	38:22	-	1.07
100	Hexa	PCB-152	2.50	2.24e+06	1.23 y	38:51	-	1.11
101	Hexa	PCB-145	2.50	2.20e+06	1.31 y	39:18	-	1.09
102	Hexa	PCB-136	2.50	2.25e+06	1.25 y	39:36	-	1.12

103	Hexa	PCB-148	2.50	1.64e+06	1.30 y	39:43	-	0.81
104	Hexa	PCB-154	2.50	1.79e+06	1.26 y	40:12	-	0.89
105	Hexa	PCB-151	2.50	1.62e+06	1.28 y	40:51	-	0.80
106	Hexa	PCB-135	2.50	1.62e+06	1.09 y	41:03	-	0.80
107	Hexa	PCB-144	2.50	1.56e+06	1.28 y	41:10	-	0.77
108	Hexa	PCB-147	2.50	1.45e+06	1.24 y	41:18	-	0.72
109	Hexa	PCB-139/149	5.00	3.45e+06	1.23 y	41:34	-	0.85
110	Hexa	PCB-140	2.50	1.53e+06	1.14 y	41:46	-	0.76
111	Hexa	PCB-134/143	5.00	4.05e+06	1.23 y	42:12	-	0.94
112	Hexa	PCB-133/142	5.00	3.84e+06	1.20 y	42:29	-	0.89
113	Hexa	PCB-131	2.50	1.83e+06	1.25 y	42:38	-	0.85

114	Hexa	PCB-146/165	5.00	4.66e+06	1.26 y	42:52	-	1.08
115	Hexa	PCB-132/161	5.00	4.84e+06	1.19 y	43:07	-	1.12
116	Hexa	PCB-153	2.50	2.56e+06	1.27 y	43:17	-	1.19
117	Hexa	PCB-168	2.50	3.00e+06	1.22 y	43:29	-	1.39
118	Hexa	PCB-141	2.50	2.20e+06	1.20 y	44:00	-	1.16
119	Hexa	PCB-137	2.50	2.20e+06	1.31 y	44:24	-	1.16
120	Hexa	PCB-130	2.50	1.53e+06	1.23 y	44:31	-	0.80
121	Hexa	PCB-138/163/164	7.50	7.63e+06	1.22 y	44:52	-	1.35
122	Hexa	PCB-158/160	5.00	5.45e+06	1.20 y	45:08	-	1.44
123	Hexa	PCB-129	2.50	1.82e+06	1.23 y	45:21	-	0.96
124	Hexa	PCB-166	2.50	2.53e+06	1.20 y	45:49	-	1.10
125	Hexa	PCB-159	2.50	2.81e+06	1.30 y	46:09	-	1.22
126	Hexa	PCB-128/162	5.00	4.82e+06	1.23 y	46:26	-	1.05
127	Hexa	PCB-167	2.50	2.78e+06	1.23 y	46:49	-	1.18
128	Hexa	PCB-156	2.50	2.96e+06	1.27 y	48:07	-	1.30
129	Hexa	PCB-157	2.50	2.84e+06	1.24 y	48:23	-	1.24
130	Hexa	PCB-169	2.50	2.53e+06	1.17 y	50:32	-	1.10
131	Hepta	PCB-188	2.50	2.47e+06	1.00 y	42:55	-	1.46
132	Hepta	PCB-184	2.50	2.33e+06	1.04 y	43:22	-	1.37
133	Hepta	PCB-179	2.50	2.38e+06	1.02 y	44:09	-	1.41
134	Hepta	PCB-176	2.50	2.48e+06	0.98 y	44:36	-	1.46
135	Hepta	PCB-186	2.50	2.44e+06	1.11 y	45:13	-	1.44
136	Hepta	PCB-178	2.50	1.82e+06	1.06 y	45:42	-	1.07
137	Hepta	PCB-175	2.50	1.74e+06	1.03 y	46:03	-	1.03
138	Hepta	PCB-182/187	5.00	3.90e+06	1.11 y	46:13	-	1.15
139	Hepta	PCB-183	2.50	2.14e+06	1.05 y	46:33	-	1.26
140	Hepta	PCB-185	2.50	1.77e+06	1.02 y	47:12	-	1.40
141	Hepta	PCB-174	2.50	1.60e+06	1.07 y	47:34	-	1.26
142	Hepta	PCB-181	2.50	1.81e+06	1.12 y	47:40	-	1.43
143	Hepta	PCB-177	2.50	1.67e+06	1.13 y	47:50	-	1.32
144	Hepta	PCB-171	2.50	1.81e+06	1.05 y	48:08	-	1.43
145	Hepta	PCB-173	2.50	1.39e+06	0.93 y	48:33	-	1.10
146	Hepta	PCB-172	2.50	1.57e+06	1.02 y	49:00	-	1.24
147	Hepta	PCB-192	2.50	2.08e+06	0.99 y	49:12	-	1.64
148	Hepta	PCB-180	2.50	1.80e+06	1.01 y	49:24	-	1.42
149	Hepta	PCB-193	2.50	2.24e+06	1.07 y	49:37	-	1.77
150	Hepta	PCB-191	2.50	2.29e+06	1.00 y	49:52	-	1.81
151	Hepta	PCB-170	2.50	1.64e+06	1.01 y	50:56	-	1.65
152	Hepta	PCB-190	2.50	2.11e+06	1.07 y	51:06	-	2.12
153	Hepta	PCB-189	2.50	2.24e+06	1.04 y	52:27	-	1.69
154	Octa	PCB-202	2.50	1.65e+06	0.92 y	48:20	-	0.99
155	Octa	PCB-201	2.50	1.83e+06	0.88 y	48:49	-	1.10
156	Octa	PCB-204	2.50	1.71e+06	0.88 y	48:59	-	1.02
157	Octa	PCB-197	2.50	1.87e+06	0.88 y	49:17	-	1.12
158	Octa	PCB-200	2.50	1.68e+06	0.82 y	50:10	-	1.01
159	Octa	PCB-198	2.50	1.15e+06	0.85 y	51:31	-	0.69
160	Octa	PCB-199	2.50	1.14e+06	0.89 y	51:38	-	0.68
161	Octa	PCB-196/203	5.00	2.48e+06	0.93 y	51:55	-	0.74
162	Octa	PCB-195	2.50	1.33e+06	0.94 y	53:05	-	1.04
163	Octa	PCB-194	2.50	1.66e+06	0.88 y	53:57	-	1.30

164	Octa		PCB-205	2.50	1.99e+06	0.92	y	54:14	- 1.56
165	Nona		PCB-208	2.50	1.85e+06	1.33	y	53:14	- 1.03
166	Nona		PCB-207	2.50	1.79e+06	1.27	y	53:32	- 1.00
167	Nona		PCB-206	2.50	1.13e+06	1.21	y	55:34	- 0.91
168	Deca		PCB-209	2.50	1.48e+06	1.16	y	56:55	- 1.31
169	Tot ╗	Total Mono-PCB		0.00	-	-	n	-	- 1.32
170	Tot ╗	Total Di-PCB		0.00	-	-	n	-	- 1.31
171	Tot ╗	Total Tri-PCB		0.00	-	-	n	-	- 1.21

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.27
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.16
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.25
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.43
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.92
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.12
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.36
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.90
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.30
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	0.99
182	Tot ╗	Total Deca-PCB	2.50	1.48e+06	1.16	y	56:55	-	1.31
183	Mono╗	13C-PCB-1	100.00	1.69e+08	3.58	y	16:10	-	0.98
184	Mono╗	13C-PCB-3	100.00	1.62e+08	3.60	y	18:46	-	0.94
185	Di-IS	13C-PCB-4	100.00	1.05e+08	1.60	y	20:07	-	0.61
186	Di-IS	13C-PCB-9	100.00	1.68e+08	1.58	y	21:54	-	0.98
187	Di-IS	13C-PCB-11	100.00	1.66e+08	1.56	y	25:17	-	0.97
188	Tri-╗	13C-PCB-19	100.00	9.97e+07	1.10	y	24:16	-	0.58
189	Tri-╗	13C-PCB-32	100.00	1.43e+08	1.10	y	27:11	-	0.83
190	Tri-╗	13C-PCB-28	100.00	1.18e+08	1.06	y	29:08	-	1.00
191	Tri-╗	13C-PCB-37	100.00	1.05e+08	1.05	y	33:01	-	0.89
192	Tetr╗	13C-PCB-54	100.00	1.32e+08	0.77	y	28:01	-	1.08
193	Tetr╗	13C-PCB-52	100.00	8.88e+07	0.77	y	31:33	-	0.73
194	Tetr╗	13C-PCB-47	100.00	9.03e+07	0.76	y	32:03	-	0.74
195	Tetr╗	13C-PCB-70	100.00	1.16e+08	0.77	y	35:34	-	0.95
196	Tetr╗	13C-PCB-80	100.00	1.21e+08	0.78	y	35:59	-	0.99
197	Tetr╗	13C-PCB-81	100.00	1.17e+08	0.79	y	39:05	-	0.96
198	Tetr╗	13C-PCB-77	100.00	1.15e+08	0.78	y	39:41	-	0.94
199	Pent╗	13C-PCB-104	100.00	8.57e+07	1.62	y	32:42	-	0.98
200	Pent╗	13C-PCB-95	100.00	6.19e+07	1.62	y	35:52	-	0.71
201	Pent╗	13C-PCB-101	100.00	7.03e+07	1.60	y	37:33	-	0.80
202	Pent╗	13C-PCB-97	100.00	5.90e+07	1.61	y	38:51	-	0.67
203	Pent╗	13C-PCB-123	100.00	7.92e+07	1.59	y	41:25	-	0.90
204	Pent╗	13C-PCB-118	100.00	8.31e+07	1.61	y	41:35	-	0.95
205	Pent╗	13C-PCB-114	100.00	8.41e+07	1.59	y	42:15	-	1.24
206	Pent╗	13C-PCB-105	100.00	8.15e+07	1.57	y	43:06	-	1.20
207	Pent╗	13C-PCB-127	100.00	8.51e+07	1.56	y	43:27	-	1.25
208	Pent╗	13C-PCB-126	100.00	7.30e+07	1.52	y	45:20	-	1.07
209	Hexa╗	13C-PCB-155	100.00	8.08e+07	1.29	y	37:06	-	0.92
210	Hexa╗	13C-PCB-153	100.00	8.63e+07	1.25	y	43:16	-	1.27
211	Hexa╗	13C-PCB-141	100.00	7.58e+07	1.27	y	44:00	-	1.12
212	Hexa	13C-PCB-138	100.00	7.56e+07	1.27	y	44:51	-	1.11
213	Hexa╗	13C-PCB-159	100.00	9.21e+07	1.26	y	46:08	-	1.36
214	Hexa╗	13C-PCB-167	100.00	9.42e+07	1.28	y	46:49	-	1.39
215	Hexa╗	13C-PCB-156	100.00	9.08e+07	1.28	y	48:06	-	1.34
216	Hexa╗	13C-PCB-157	100.00	9.19e+07	1.25	y	48:22	-	1.35
217	Hexa╗	13C-PCB-169	100.00	9.21e+07	1.27	y	50:32	-	1.36
218	Hept╗	13C-PCB-188	100.00	6.77e+07	0.45	y	42:54	-	1.00
219	Hept╗	13C-PCB-180	100.00	5.07e+07	0.45	y	49:23	-	0.75
220	Hept╗	13C-PCB-170	100.00	3.98e+07	0.46	y	50:54	-	0.59
221	Hept╗	13C-PCB-189	100.00	5.32e+07	0.47	y	52:26	-	0.78
222	Octa╗	13C-PCB-202	100.00	6.68e+07	0.92	y	48:19	-	0.98

223	Octa╗	13C-PCB-194	100.00	5.10e+07	0.91 y	53:56	-	0.77
224	Nona╗	13C-PCB-208	100.00	7.15e+07	0.76 y	53:13	-	1.09
225	Nona╗	13C-PCB-206	100.00	4.98e+07	0.77 y	55:33	-	0.76
226	Deca╗	13C-PCB-209	100.00	4.53e+07	1.18 y	56:54	-	0.69
227	DI-RS	13C-PCB-15	100.00	1.72e+08	1.58 y	25:59	-	1.00
228	Tri-╗	13C-PCB-31	100.00	1.18e+08	1.05 y	29:02	-	1.00
229	Tetr╗	13C-PCB-60	100.00	1.22e+08	0.78 y	36:48	-	1.00
230	Penta	13C-PCB-111	100.00	8.77e+07	1.62 y	39:17	-	1.00
231	Hexa╗	13C-PCB-128	100.00	6.80e+07	1.29 y	46:24	-	1.00
232	Octa╗	13C-PCB-205	100.00	6.58e+07	0.89 y	54:13	-	1.00

233	CRS	13C-PCB-79	100.00	1.25e+08	0.78 y	37:51	-	1.02
234	CRS	13C-PCB-178	100.00	4.29e+07	0.46 y	45:41	-	0.63
235	PS	13C-PCB-79	100.00	1.25e+08	0.78 y	37:51	-	1.07
236	PS	13C-PCB-178	100.00	4.29e+07	0.46 y	45:41	-	0.85

Filename: 150114E1 S: 6 Acquired: 14-JAN-15 18:00:03
Run: 150114e1 Analyte: ICal: pcbvg8-1-14-15 Results: 150114e1
Sample text: ST150114E1-5 PCB CS3 14L1801

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	50.00	8.07e+07	2.99 y	16:11	-	1.23
2	Mono	PCB-2	50.00	8.02e+07	2.99 y	18:33	-	1.26
3	Mono	PCB-3	50.00	8.03e+07	2.98 y	18:47	-	1.26
4	Di	PCB-4/10	100.00	1.30e+08	1.64 y	20:10	-	1.56
5	Di	PCB-7/9	100.00	1.56e+08	1.63 y	21:57	-	1.18
6	Di	PCB-6	50.00	7.76e+07	1.65 y	22:35	-	1.18
7	Di	PCB-5/8	100.00	1.55e+08	1.64 y	23:00	-	1.17
8	Di	PCB-14	50.00	9.12e+07	1.64 y	24:06	-	1.41
9	Di	PCB-11	50.00	7.80e+07	1.68 y	25:17	-	1.21
10	Di	PCB-12/13	100.00	1.55e+08	1.65 y	25:41	-	1.20
11	Di	PCB-15	50.00	8.75e+07	1.65 y	26:00	-	1.36
12	Tri	PCB-19	50.00	4.22e+07	1.06 y	24:17	-	1.13
13	Tri	PCB-30	50.00	6.72e+07	1.05 y	25:11	-	1.80
14	Tri	PCB-18	50.00	4.67e+07	1.06 y	25:55	-	0.85
15	Tri	PCB-17	50.00	5.08e+07	1.05 y	26:06	-	0.92
16	Tri	PCB-24/27	100.00	1.36e+08	1.06 y	26:40	-	1.23
17	Tri	PCB-16/32	100.00	1.08e+08	1.05 y	27:11	-	0.98
18	Tri	PCB-34	50.00	5.36e+07	1.01 y	27:58	-	1.19
19	Tri	PCB-23	50.00	5.23e+07	1.06 y	28:04	-	1.16
20	Tri	PCB-29	50.00	4.77e+07	1.01 y	28:19	-	1.06
21	Tri	PCB-26	50.00	5.01e+07	1.00 y	28:31	-	1.11
22	Tri	PCB-25	50.00	4.54e+07	1.01 y	28:41	-	1.00
23	Tri	PCB-31	50.00	5.13e+07	1.03 y	29:03	-	1.13
24	Tri	PCB-28	50.00	4.84e+07	1.04 y	29:09	-	1.07
25	Tri	PCB-20/21/33	150.00	1.42e+08	1.02 y	29:45	-	1.05
26	Tri	PCB-22	50.00	4.91e+07	1.03 y	30:12	-	1.09
27	Tri	PCB-36	50.00	5.22e+07	1.05 y	30:49	-	1.40
28	Tri	PCB-39	50.00	4.78e+07	1.05 y	31:17	-	1.28
29	Tri	PCB-38	50.00	4.87e+07	1.03 y	32:04	-	1.31
30	Tri	PCB-35	50.00	4.75e+07	1.03 y	32:34	-	1.28
31	Tri	PCB-37	50.00	4.79e+07	1.08 y	33:01	-	1.28
32	Tetra	PCB-54	50.00	4.77e+07	0.74 y	28:02	-	0.95
33	Tetra	PCB-50	50.00	3.65e+07	0.72 y	29:11	-	0.73
34	Tetra	PCB-53	50.00	3.64e+07	0.75 y	29:51	-	1.09
35	Tetra	PCB-51	50.00	3.70e+07	0.72 y	30:11	-	1.11
36	Tetra	PCB-45	50.00	3.37e+07	0.73 y	30:36	-	1.01
37	Tetra	PCB-46	50.00	2.89e+07	0.73 y	31:06	-	0.87
38	Tetra	PCB-52/69	100.00	8.00e+07	0.74 y	31:34	-	1.20
39	Tetra	PCB-73	50.00	4.72e+07	0.75 y	31:41	-	1.42
40	Tetra	PCB-43/49	100.00	7.08e+07	0.73 y	31:51	-	1.06
41	Tetra	PCB-47	50.00	3.98e+07	0.74 y	32:04	-	1.09

42	Tetra	PCB-48/75	100.00	8.76e+07	0.73 y	32:11	-	1.20
43	Tetra	PCB-65	50.00	4.12e+07	0.73 y	32:26	-	1.13
44	Tetra	PCB-62	50.00	4.67e+07	0.74 y	32:33	-	1.28
45	Tetra	PCB-44	50.00	2.93e+07	0.74 y	32:51	-	0.80
46	Tetra	PCB-42/59	100.00	7.65e+07	0.74 y	33:05	-	1.05
47	Tetra	PCB-41/64/71/72	200.00	1.66e+08	0.73 y	33:40	-	1.14
48	Tetra	PCB-68	50.00	4.75e+07	0.73 y	33:55	-	1.30
49	Tetra	PCB-40	50.00	2.57e+07	0.73 y	34:09	-	0.71
50	Tetra	PCB-57	50.00	4.47e+07	0.74 y	34:30	-	1.03
51	Tetra	PCB-67	50.00	4.34e+07	0.73 y	34:49	-	1.00
52	Tetra	PCB-58	50.00	4.85e+07	0.76 y	34:55	-	1.12

53	Tetra	PCB-63	50.00	4.77e+07	0.71 y	35:04	-	1.10
54	Tetra	PCB-74	50.00	4.68e+07	0.74 y	35:21	-	1.08
55	Tetra	PCB-61/70	100.00	9.06e+07	0.73 y	35:33	-	1.04
56	Tetra	PCB-76/66	100.00	9.21e+07	0.74 y	35:45	-	1.06
57	Tetra	PCB-80	50.00	5.39e+07	0.74 y	35:59	-	1.20
58	Tetra	PCB-55	50.00	5.08e+07	0.74 y	36:18	-	1.13
59	Tetra	PCB-56/60	100.00	8.80e+07	0.73 y	36:48	-	0.98
60	Tetra	PCB-79	50.00	4.65e+07	0.73 y	37:53	-	1.03
61	Tetra	PCB-78	50.00	4.56e+07	0.74 y	38:34	-	1.03
62	Tetra	PCB-81	50.00	5.20e+07	0.75 y	39:05	-	1.17
63	Tetra	PCB-77	50.00	5.01e+07	0.76 y	39:41	-	1.18
64	Penta	PCB-104	50.00	4.01e+07	1.59 y	32:44	-	1.16
65	Penta	PCB-96	50.00	3.32e+07	1.56 y	33:59	-	0.96
66	Penta	PCB-103	50.00	2.97e+07	1.54 y	34:31	-	0.86
67	Penta	PCB-100	50.00	3.02e+07	1.57 y	34:52	-	0.87
68	Penta	PCB-94	50.00	2.48e+07	1.56 y	35:20	-	1.06
69	Penta	PCB-95/98/102	150.00	8.16e+07	1.52 y	35:50	-	1.16
70	Penta	PCB-93	50.00	2.65e+07	1.68 y	35:58	-	1.13
71	Penta	PCB-88/91	100.00	5.25e+07	1.56 y	36:15	-	1.12
72	Penta	PCB-121	50.00	3.68e+07	1.57 y	36:22	-	1.57
73	Penta	PCB-84/92	100.00	5.15e+07	1.54 y	37:11	-	1.04
74	Penta	PCB-89	50.00	2.34e+07	1.53 y	37:22	-	0.95
75	Penta	PCB-90/101	100.00	5.59e+07	1.56 y	37:33	-	1.13
76	Penta	PCB-113	50.00	3.44e+07	1.55 y	37:48	-	1.39
77	Penta	PCB-99	50.00	2.56e+07	1.60 y	37:54	-	1.03
78	Penta	PCB-119	50.00	3.83e+07	1.56 y	38:21	-	1.77
79	Penta	PCB-108/112	100.00	5.74e+07	1.56 y	38:30	-	1.33
80	Penta	PCB-83	50.00	3.43e+07	1.57 y	38:40	-	1.58
81	Penta	PCB-97	50.00	2.60e+07	1.55 y	38:52	-	1.20
82	Penta	PCB-86	50.00	2.15e+07	1.46 y	39:00	-	0.99
83	Penta	PCB-87/117/125	150.00	9.85e+07	1.59 y	39:08	-	1.52
84	Penta	PCB-111/115	100.00	7.67e+07	1.56 y	39:17	-	1.77
85	Penta	PCB-85/116	100.00	5.77e+07	1.60 y	39:25	-	1.33
86	Penta	PCB-120	50.00	3.97e+07	1.53 y	39:39	-	1.83
87	Penta	PCB-110	50.00	3.50e+07	1.56 y	39:47	-	1.62
88	Penta	PCB-82	50.00	2.08e+07	1.56 y	40:25	-	0.73
89	Penta	PCB-124	50.00	3.69e+07	1.57 y	41:06	-	1.29
90	Penta	PCB-107/109	100.00	6.93e+07	1.58 y	41:15	-	1.21
91	Penta	PCB-123	50.00	3.47e+07	1.55 y	41:25	-	1.21
92	Penta	PCB-106/118	100.00	7.35e+07	1.54 y	41:38	-	1.20
93	Penta	PCB-114	50.00	4.27e+07	1.62 y	42:15	-	1.36
94	Penta	PCB-122	50.00	3.51e+07	1.63 y	42:23	-	1.12
95	Penta	PCB-105	50.00	4.36e+07	1.65 y	43:07	-	1.47
96	Penta	PCB-127	50.00	3.79e+07	1.69 y	43:27	-	1.24
97	Penta	PCB-126	50.00	3.67e+07	1.64 y	45:20	-	1.39
98	Hexa	PCB-155	50.00	3.43e+07	1.23 y	37:07	-	1.12
99	Hexa	PCB-150	50.00	3.11e+07	1.24 y	38:22	-	1.02
100	Hexa	PCB-152	50.00	3.16e+07	1.25 y	38:51	-	1.03
101	Hexa	PCB-145	50.00	3.04e+07	1.24 y	39:18	-	1.00
102	Hexa	PCB-136	50.00	3.31e+07	1.23 y	39:37	-	1.09

103	Hexa	PCB-148	50.00	2.18e+07	1.24 y	39:43	-	0.71
104	Hexa	PCB-154	50.00	2.45e+07	1.23 y	40:12	-	0.80
105	Hexa	PCB-151	50.00	2.30e+07	1.25 y	40:51	-	0.75
106	Hexa	PCB-135	50.00	2.19e+07	1.23 y	41:04	-	0.72
107	Hexa	PCB-144	50.00	2.39e+07	1.33 y	41:10	-	0.78
108	Hexa	PCB-147	50.00	2.07e+07	1.15 y	41:18	-	0.68
109	Hexa	PCB-139/149	100.00	4.69e+07	1.23 y	41:34	-	0.77
110	Hexa	PCB-140	50.00	2.12e+07	1.24 y	41:45	-	0.70
111	Hexa	PCB-134/143	100.00	5.52e+07	1.22 y	42:11	-	0.85
112	Hexa	PCB-133/142	100.00	5.46e+07	1.24 y	42:29	-	0.85
113	Hexa	PCB-131	50.00	2.55e+07	1.16 y	42:38	-	0.79

Filename: 150114E1 S: 6 Acquired: 14-JAN-15 18:00:03
Run: 150114E1 Analyte: ICal: pcbvg8-1-14-15 Results: 150114e1
Sample text: ST150114E1-5 PCB CS3 14L1801

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	50.00	8.07e+07	2.99 y	16:11	-	1.23
2	Mono	PCB-2	50.00	8.02e+07	2.99 y	18:33	-	1.26
3	Mono	PCB-3	50.00	8.03e+07	2.98 y	18:47	-	1.26
4	Di	PCB-4/10	100.00	1.30e+08	1.64 y	20:10	-	1.56
5	Di	PCB-7/9	100.00	1.56e+08	1.63 y	21:57	-	1.18
6	Di	PCB-6	50.00	7.76e+07	1.65 y	22:35	-	1.18
7	Di	PCB-5/8	100.00	1.55e+08	1.64 y	23:00	-	1.17
8	Di	PCB-14	50.00	9.12e+07	1.64 y	24:06	-	1.41
9	Di	PCB-11	50.00	7.80e+07	1.68 y	25:17	-	1.21
10	Di	PCB-12/13	100.00	1.55e+08	1.65 y	25:41	-	1.20
11	Di	PCB-15	50.00	8.75e+07	1.65 y	26:00	-	1.36
12	Tri	PCB-19	50.00	4.22e+07	1.06 y	24:17	-	1.13
13	Tri	PCB-30	50.00	6.72e+07	1.05 y	25:11	-	1.80
14	Tri	PCB-18	50.00	4.67e+07	1.06 y	25:55	-	0.85
15	Tri	PCB-17	50.00	5.08e+07	1.05 y	26:06	-	0.92
16	Tri	PCB-24/27	100.00	1.36e+08	1.06 y	26:40	-	1.23
17	Tri	PCB-16/32	100.00	1.08e+08	1.05 y	27:11	-	0.98
18	Tri	PCB-34	50.00	5.36e+07	1.01 y	27:58	-	1.19
19	Tri	PCB-23	50.00	5.23e+07	1.06 y	28:04	-	1.16
20	Tri	PCB-29	50.00	4.77e+07	1.01 y	28:19	-	1.06
21	Tri	PCB-26	50.00	5.01e+07	1.00 y	28:31	-	1.11
22	Tri	PCB-25	50.00	4.54e+07	1.01 y	28:41	-	1.00
23	Tri	PCB-31	50.00	5.13e+07	1.03 y	29:03	-	1.13
24	Tri	PCB-28	50.00	4.84e+07	1.04 y	29:09	-	1.07
25	Tri	PCB-20/21/33	150.00	1.42e+08	1.02 y	29:45	-	1.05
26	Tri	PCB-22	50.00	4.91e+07	1.03 y	30:12	-	1.09
27	Tri	PCB-36	50.00	5.22e+07	1.05 y	30:49	-	1.40
28	Tri	PCB-39	50.00	4.78e+07	1.05 y	31:17	-	1.28
29	Tri	PCB-38	50.00	4.87e+07	1.03 y	32:04	-	1.31
30	Tri	PCB-35	50.00	4.75e+07	1.03 y	32:34	-	1.28
31	Tri	PCB-37	50.00	4.79e+07	1.08 y	33:01	-	1.28
32	Tetra	PCB-54	50.00	4.77e+07	0.74 y	28:02	-	0.95
33	Tetra	PCB-50	50.00	3.65e+07	0.72 y	29:11	-	0.73
34	Tetra	PCB-53	50.00	3.64e+07	0.75 y	29:51	-	1.09
35	Tetra	PCB-51	50.00	3.70e+07	0.72 y	30:11	-	1.11
36	Tetra	PCB-45	50.00	3.37e+07	0.73 y	30:36	-	1.01
37	Tetra	PCB-46	50.00	2.89e-07	0.73 y	31:06	-	0.87
38	Tetra	PCB-52/69	100.00	8.00e+07	0.74 y	31:34	-	1.20
39	Tetra	PCB-73	50.00	4.72e+07	0.75 y	31:41	-	1.42
40	Tetra	PCB-43/49	100.00	7.08e-07	0.73 y	31:51	-	1.06

41	Tetra	PCB-47	50.00	3.98e+07	0.74 y	32:04	-	1.09
42	Tetra	PCB-48/75	100.00	8.76e+07	0.73 y	32:11	-	1.20
43	Tetra	PCB-65	50.00	4.12e+07	0.73 y	32:26	-	1.13
44	Tetra	PCB-62	50.00	4.67e+07	0.74 y	32:33	-	1.28
45	Tetra	PCB-44	50.00	2.93e+07	0.74 y	32:51	-	0.80
46	Tetra	PCB-42/59	100.00	7.65e+07	0.74 y	33:05	-	1.05
47	Tetra	PCB-41/64/71/72	200.00	1.66e+08	0.73 y	33:40	-	1.14
48	Tetra	PCB-68	50.00	4.75e+07	0.73 y	33:55	-	1.30
49	Tetra	PCB-40	50.00	2.57e+07	0.73 y	34:09	-	0.71
50	Tetra	PCB-57	50.00	4.47e+07	0.74 y	34:30	-	1.03
51	Tetra	PCB-67	50.00	4.34e+07	0.73 y	34:49	-	1.00

52	Tetra	PCB-58	50.00	4.85e+07	0.76 y	34:55	-	1.12
53	Tetra	PCB-63	50.00	4.77e+07	0.71 y	35:04	-	1.10
54	Tetra	PCB-74	50.00	4.68e+07	0.74 y	35:21	-	1.08
55	Tetra	PCB-61/70	100.00	9.06e+07	0.73 y	35:33	-	1.04
56	Tetra	PCB-76/66	100.00	9.21e+07	0.74 y	35:45	-	1.06
57	Tetra	PCB-80	50.00	5.39e+07	0.74 y	35:59	-	1.20
58	Tetra	PCB-55	50.00	5.08e+07	0.74 y	36:18	-	1.13
59	Tetra	PCB-56/60	100.00	8.80e+07	0.73 y	36:48	-	0.98
60	Tetra	PCB-79	50.00	4.65e+07	0.73 y	37:53	-	1.03
61	Tetra	PCB-78	50.00	4.56e+07	0.74 y	38:34	-	1.03
62	Tetra	PCB-81	50.00	5.20e+07	0.75 y	39:05	-	1.17
63	Tetra	PCB-77	50.00	5.01e+07	0.76 y	39:41	-	1.18
64	Penta	PCB-104	50.00	4.01e+07	1.59 y	32:44	-	1.16
65	Penta	PCB-96	50.00	3.32e+07	1.56 y	33:59	-	0.96
66	Penta	PCB-103	50.00	2.97e+07	1.54 y	34:31	-	0.86
67	Penta	PCB-100	50.00	3.02e+07	1.57 y	34:52	-	0.87
68	Penta	PCB-94	50.00	2.48e+07	1.56 y	35:20	-	1.06
69	Penta	PCB-95/98/102	150.00	8.16e+07	1.52 y	35:50	-	1.16
70	Penta	PCB-93	50.00	2.65e+07	1.68 y	35:58	-	1.13
71	Penta	PCB-88/91	100.00	5.25e+07	1.56 y	36:15	-	1.12
72	Penta	PCB-121	50.00	3.68e+07	1.57 y	36:22	-	1.57
73	Penta	PCB-84/92	100.00	5.15e+07	1.54 y	37:11	-	1.04
74	Penta	PCB-89	50.00	2.34e+07	1.53 y	37:22	-	0.95
75	Penta	PCB-90/101	100.00	5.59e+07	1.56 y	37:33	-	1.13
76	Penta	PCB-113	50.00	3.44e+07	1.55 y	37:48	-	1.39
77	Penta	PCB-99	50.00	2.56e+07	1.60 y	37:54	-	1.03
78	Penta	PCB-119	50.00	3.83e+07	1.56 y	38:21	-	1.77
79	Penta	PCB-108/112	100.00	5.74e+07	1.56 y	38:30	-	1.33
80	Penta	PCB-83	50.00	3.43e+07	1.57 y	38:40	-	1.58
81	Penta	PCB-97	50.00	2.60e+07	1.55 y	38:52	-	1.20
82	Penta	PCB-86	50.00	2.15e+07	1.46 y	39:00	-	0.99
83	Penta	PCB-87/117/125	150.00	9.85e+07	1.59 y	39:08	-	1.52
84	Penta	PCB-111/115	100.00	7.67e+07	1.56 y	39:17	-	1.77
85	Penta	PCB-85/116	100.00	5.77e+07	1.60 y	39:25	-	1.33
86	Penta	PCB-120	50.00	3.97e+07	1.53 y	39:39	-	1.83
87	Penta	PCB-110	50.00	3.50e+07	1.56 y	39:47	-	1.62
88	Penta	PCB-82	50.00	2.08e+07	1.56 y	40:25	-	0.73
89	Penta	PCB-124	50.00	3.69e+07	1.57 y	41:06	-	1.29
90	Penta	PCB-107/109	100.00	6.93e+07	1.58 y	41:15	-	1.21
91	Penta	PCB-123	50.00	3.47e+07	1.55 y	41:25	-	1.21
92	Penta	PCB-106/118	100.00	7.35e+07	1.54 y	41:38	-	1.20
93	Penta	PCB-114	50.00	4.27e+07	1.62 y	42:15	-	1.36
94	Penta	PCB-122	50.00	3.51e+07	1.63 y	42:23	-	1.12
95	Penta	PCB-105	50.00	4.36e+07	1.65 y	43:07	-	1.47
96	Penta	PCB-127	50.00	3.79e+07	1.69 y	43:27	-	1.24
97	Penta	PCB-126	50.00	3.67e+07	1.64 y	45:20	-	1.39
98	Hexa	PCB-155	50.00	3.43e+07	1.23 y	37:07	-	1.12
99	Hexa	PCB-150	50.00	3.11e+07	1.24 y	38:22	-	1.02
100	Hexa	PCB-152	50.00	3.16e+07	1.25 y	38:51	-	1.03
101	Hexa	PCB-145	50.00	3.04e+07	1.24 y	39:18	-	1.00

102	Hexa	PCB-136	50.00	3.31e+07	1.23 y	39:37	-	1.09
103	Hexa	PCB-148	50.00	2.18e+07	1.24 y	39:43	-	0.71
104	Hexa	PCB-154	50.00	2.45e+07	1.23 y	40:12	-	0.80
105	Hexa	PCB-151	50.00	2.30e+07	1.25 y	40:51	-	0.75
106	Hexa	PCB-135	50.00	2.19e+07	1.23 y	41:04	-	0.72
107	Hexa	PCB-144	50.00	2.39e+07	1.33 y	41:10	-	0.78
108	Hexa	PCB-147	50.00	2.07e+07	1.15 y	41:18	-	0.68
109	Hexa	PCB-139/149	100.00	4.69e+07	1.23 y	41:34	-	0.77
110	Hexa	PCB-140	50.00	2.12e+07	1.24 y	41:45	-	0.70
111	Hexa	PCB-134/143	100.00	5.52e+07	1.22 y	42:11	-	0.85
112	Hexa	PCB-133/142	100.00	5.46e+07	1.24 y	42:29	-	0.85

113	Hexa	PCB-131	50.00	2.55e+07	1.16 y	42:38	-	0.79
114	Hexa	PCB-146/165	100.00	6.52e+07	1.22 y	42:51	-	1.01
115	Hexa	PCB-132/161	100.00	6.70e+07	1.22 y	43:06	-	1.04
116	Hexa	PCB-153	50.00	3.34e+07	1.21 y	43:17	-	1.04
117	Hexa	PCB-168	50.00	4.08e+07	1.22 y	43:29	-	1.27
118	Hexa	PCB-141	50.00	2.90e+07	1.22 y	44:00	-	1.05
119	Hexa	PCB-137	50.00	2.95e+07	1.18 y	44:24	-	1.07
120	Hexa	PCB-130	50.00	2.45e+07	1.22 y	44:29	-	0.89
121	Hexa	PCB-138/163/164	150.00	1.05e+08	1.21 y	44:52	-	1.27
122	Hexa	PCB-158/160	100.00	7.63e+07	1.22 y	45:06	-	1.37
123	Hexa	PCB-129	50.00	2.45e+07	1.20 y	45:21	-	0.88
124	Hexa	PCB-166	50.00	3.59e+07	1.21 y	45:48	-	1.06
125	Hexa	PCB-159	50.00	3.96e+07	1.22 y	46:08	-	1.17
126	Hexa	PCB-128/162	100.00	6.57e+07	1.20 y	46:25	-	0.97
127	Hexa	PCB-167	50.00	3.85e+07	1.17 y	46:49	-	1.10
128	Hexa	PCB-156	50.00	3.93e+07	1.19 y	48:07	-	1.19
129	Hexa	PCB-157	50.00	3.97e+07	1.21 y	48:23	-	1.13
130	Hexa	PCB-169	50.00	3.46e+07	1.20 y	50:32	-	1.02
131	Hepta	PCB-188	50.00	3.60e+07	1.06 y	42:55	-	1.43
132	Hepta	PCB-184	50.00	3.21e+07	1.05 y	43:21	-	1.27
133	Hepta	PCB-179	50.00	3.36e+07	1.03 y	44:08	-	1.33
134	Hepta	PCB-176	50.00	3.52e+07	1.04 y	44:36	-	1.40
135	Hepta	PCB-186	50.00	3.45e+07	1.05 y	45:12	-	1.37
136	Hepta	PCB-178	50.00	2.51e+07	1.06 y	45:42	-	1.00
137	Hepta	PCB-175	50.00	2.54e+07	1.06 y	46:03	-	1.01
138	Hepta	PCB-182/187	100.00	5.34e+07	1.05 y	46:13	-	1.06
139	Hepta	PCB-183	50.00	2.93e+07	1.04 y	46:32	-	1.16
140	Hepta	PCB-185	50.00	2.52e+07	1.05 y	47:11	-	1.34
141	Hepta	PCB-174	50.00	2.35e+07	1.05 y	47:33	-	1.25
142	Hepta	PCB-181	50.00	2.45e+07	1.08 y	47:40	-	1.30
143	Hepta	PCB-177	50.00	2.19e+07	1.04 y	47:49	-	1.16
144	Hepta	PCB-171	50.00	2.53e+07	1.05 y	48:07	-	1.34
145	Hepta	PCB-173	50.00	2.04e+07	1.04 y	48:33	-	1.08
146	Hepta	PCB-172	50.00	2.39e+07	1.04 y	49:00	-	1.27
147	Hepta	PCB-192	50.00	3.03e+07	1.05 y	49:12	-	1.61
148	Hepta	PCB-180	50.00	2.48e+07	1.03 y	49:24	-	1.32
149	Hepta	PCB-193	50.00	3.25e+07	1.04 y	49:36	-	1.72
150	Hepta	PCB-191	50.00	3.32e+07	1.04 y	49:52	-	1.76
151	Hepta	PCB-170	50.00	2.30e+07	1.02 y	50:55	-	1.56
152	Hepta	PCB-190	50.00	3.20e+07	1.07 y	51:06	-	2.17
153	Hepta	PCB-189	50.00	3.08e+07	1.05 y	52:26	-	1.58
154	Octa	PCB-202	50.00	2.38e+07	0.91 y	48:19	-	0.96
155	Octa	PCB-201	50.00	2.52e+07	0.87 y	48:48	-	1.01
156	Octa	PCB-204	50.00	2.39e+07	0.89 y	48:58	-	0.96
157	Octa	PCB-197	50.00	2.70e+07	0.91 y	49:16	-	1.08
158	Octa	PCB-200	50.00	2.41e+07	0.87 y	50:10	-	0.97
159	Octa	PCB-198	50.00	1.82e+07	0.89 y	51:31	-	0.73
160	Octa	PCB-199	50.00	1.68e+07	0.90 y	51:38	-	0.68
161	Octa	PCB-196/203	100.00	3.74e+07	0.89 y	51:54	-	0.75
162	Octa	PCB-195	50.00	1.90e+07	0.91 y	53:04	-	1.07

163	Octa		PCB-194	50.00	2.09e+07	0.92	y	53:56	- 1.18
164	Octa		PCB-205	50.00	2.74e+07	0.92	y	54:13	- 1.55
165	Nona		PCB-208	50.00	2.49e+07	1.31	y	53:13	- 0.94
166	Nona		PCB-207	50.00	2.55e+07	1.33	y	53:32	- 0.96
167	Nona		PCB-206	50.00	1.42e+07	1.31	y	55:34	- 0.82
168	Deca		PCB-209	50.00	2.15e+07	1.16	y	56:55	- 1.21
169	Tot ╗	Total Mono-PCB		0.00	-	-	n	-	- 1.25
170	Tot ╗	Total Di-PCB		0.00	-	-	n	-	- 1.25

171	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.14
172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.16
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.06
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.15
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.31
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.85
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.05
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.29
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.88
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.27
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	0.92
182	Tot ╗	Total Deca-PCB	50.00	2.15e+07	1.16	y	56:55	-	1.21
183	Mono╗	13C-PCB-1	100.00	1.31e+08	3.59	y	16:09	-	0.98
184	Mono╗	13C-PCB-3	100.00	1.27e+08	3.55	y	18:46	-	0.95
185	Di-IS	13C-PCB-4	100.00	8.37e+07	1.59	y	20:07	-	0.62
186	Di-IS	13C-PCB-9	100.00	1.32e+08	1.58	y	21:54	-	0.98
187	Di-IS	13C-PCB-11	100.00	1.29e+08	1.57	y	25:17	-	0.96
188	Tri-╗	13C-PCB-19	100.00	7.48e+07	1.10	y	24:16	-	0.56
189	Tri-╗	13C-PCB-32	100.00	1.10e+08	1.10	y	27:10	-	0.82
190	Tri-╗	13C-PCB-28	100.00	9.04e+07	1.03	y	29:08	-	1.21
191	Tri-╗	13C-PCB-37	100.00	7.45e+07	1.04	y	33:00	-	1.00
192	Tetr╗	13C-PCB-54	100.00	1.00e+08	0.78	y	28:01	-	1.15
193	Tetr╗	13C-PCB-52	100.00	6.66e+07	0.76	y	31:33	-	0.76
194	Tetr╗	13C-PCB-47	100.00	7.29e+07	0.77	y	32:03	-	0.84
195	Tetr╗	13C-PCB-70	100.00	8.67e+07	0.76	y	35:34	-	0.99
196	Tetr╗	13C-PCB-80	100.00	9.01e+07	0.78	y	35:59	-	1.03
197	Tetr╗	13C-PCB-81	100.00	8.87e+07	0.77	y	39:05	-	1.02
198	Tetr╗	13C-PCB-77	100.00	8.51e+07	0.79	y	39:40	-	0.98
199	Pent╗	13C-PCB-104	100.00	6.91e+07	1.61	y	32:42	-	1.05
200	Pent╗	13C-PCB-95	100.00	4.69e+07	1.61	y	35:52	-	0.72
201	Pent╗	13C-PCB-101	100.00	4.96e+07	1.62	y	37:33	-	0.76
202	Pent╗	13C-PCB-97	100.00	4.33e+07	1.65	y	38:51	-	0.66
203	Pent╗	13C-PCB-123	100.00	5.73e+07	1.61	y	41:24	-	0.87
204	Pent╗	13C-PCB-118	100.00	6.14e+07	1.60	y	41:35	-	0.93
205	Pent╗	13C-PCB-114	100.00	6.26e+07	1.57	y	42:14	-	1.25
206	Pent╗	13C-PCB-105	100.00	5.94e+07	1.58	y	43:06	-	1.19
207	Pent╗	13C-PCB-127	100.00	6.10e+07	1.55	y	43:26	-	1.22
208	Pent╗	13C-PCB-126	100.00	5.27e+07	1.61	y	45:20	-	1.06
209	Hexa╗	13C-PCB-155	100.00	6.10e+07	1.23	y	37:05	-	0.93
210	Hexa╗	13C-PCB-153	100.00	6.45e+07	1.29	y	43:15	-	1.29
211	Hexa╗	13C-PCB-141	100.00	5.52e+07	1.29	y	43:59	-	1.11
212	Hexa	13C-PCB-138	100.00	5.55e+07	1.26	y	44:50	-	1.11
213	Hexa╗	13C-PCB-159	100.00	6.75e+07	1.31	y	46:07	-	1.35
214	Hexa╗	13C-PCB-167	100.00	7.02e+07	1.27	y	46:48	-	1.41
215	Hexa╗	13C-PCB-156	100.00	6.63e+07	1.27	y	48:06	-	1.33
216	Hexa╗	13C-PCB-157	100.00	7.04e+07	1.32	y	48:22	-	1.41
217	Hexa╗	13C-PCB-169	100.00	6.82e+07	1.25	y	50:31	-	1.37
218	Hept╗	13C-PCB-188	100.00	5.04e+07	0.46	y	42:53	-	1.01
219	Hept╗	13C-PCB-180	100.00	3.77e+07	0.46	y	49:23	-	0.76
220	Hept╗	13C-PCB-170	100.00	2.95e+07	0.47	y	50:54	-	0.59
221	Hept╗	13C-PCB-189	100.00	3.89e+07	0.45	y	52:25	-	0.78

222	Octa╕	13C-PCB-202	100.00	4.98e+07	0.89 y	48:18	-	1.00
223	Octa╕	13C-PCB-194	100.00	3.54e+07	0.90 y	53:56	-	0.75
224	Nona╕	13C-PCB-208	100.00	5.30e+07	0.77 y	53:13	-	1.11
225	Nona╕	13C-PCB-206	100.00	3.47e+07	0.77 y	55:33	-	0.73
226	Deca╕	13C-PCB-209	100.00	3.56e+07	1.18 y	56:55	-	0.75
227	DI-RS	13C-PCB-15	100.00	1.34e+08	1.56 y	25:59	-	1.00
228	Tri-╕	13C-PCB-31	100.00	7.47e+07	1.02 y	29:01	-	1.00
229	Tetr╕	13C-PCB-60	100.00	8.72e+07	0.74 y	36:48	-	1.00
230	Penta	13C-PCB-111	100.00	6.56e+07	1.64 y	39:17	-	1.00
231	Hexa╕	13C-PCB-128	100.00	4.99e+07	1.27 y	46:24	-	1.00

232	Octa¶	13C-PCB-205	100.00	4.76e+07	0.89 y	54:12	-	1.00
233	CRS	13C-PCB-79	100.00	8.64e+07	0.77 y	37:51	-	0.99
234	CRS	13C-PCB-178	100.00	3.14e+07	0.45 y	45:41	-	0.63
235	PS	13C-PCB-79	100.00	8.64e+07	0.77 y	37:51	-	0.97
236	PS	13C-PCB-178	100.00	3.14e+07	0.45 y	45:41	-	0.83

Filename: 150114E1 S: 7 Acquired: 14-JAN-15 19:04:40
Run: 150114e1 Analyte: ICal: pcbvg8-1-14-15 Results: 150114e1
Sample text: ST150114E1-6 PCB CS4 14L2905

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	400.00	6.94e+08	2.96 y	16:11	-	1.32
2	Mono	PCB-2	400.00	7.15e+08	2.99 y	18:34	-	1.21
3	Mono	PCB-3	400.00	7.26e+08	2.99 y	18:48	-	1.23
4	Di	PCB-4/10	800.00	1.13e+09	1.63 y	20:10	-	1.54
5	Di	PCB-7/9	800.00	1.36e+09	1.64 y	21:57	-	1.16
6	Di	PCB-6	400.00	6.64e+08	1.65 y	22:36	-	1.14
7	Di	PCB-5/8	800.00	1.37e+09	1.63 y	23:01	-	1.17
8	Di	PCB-14	400.00	7.93e+08	1.64 y	24:06	-	1.37
9	Di	PCB-11	400.00	6.78e+08	1.65 y	25:18	-	1.17
10	Di	PCB-12/13	800.00	1.36e+09	1.63 y	25:42	-	1.18
11	Di	PCB-15	400.00	7.60e+08	1.64 y	26:00	-	1.32
12	Tri	PCB-19	400.00	3.81e+08	1.06 y	24:17	-	1.11
13	Tri	PCB-30	400.00	5.91e+08	1.06 y	25:11	-	1.72
14	Tri	PCB-18	400.00	4.19e+08	1.05 y	25:56	-	0.82
15	Tri	PCB-17	400.00	4.40e+08	1.06 y	26:06	-	0.86
16	Tri	PCB-24/27	800.00	1.23e+09	1.06 y	26:41	-	1.21
17	Tri	PCB-16/32	800.00	9.74e+08	1.05 y	27:11	-	0.95
18	Tri	PCB-34	400.00	4.41e+08	1.02 y	27:59	-	1.16
19	Tri	PCB-23	400.00	4.64e+08	1.03 y	28:04	-	1.22
20	Tri	PCB-29	400.00	4.32e+08	1.03 y	28:19	-	1.14
21	Tri	PCB-26	400.00	4.32e+08	1.01 y	28:32	-	1.14
22	Tri	PCB-25	400.00	4.27e+08	1.03 y	28:42	-	1.13
23	Tri	PCB-31	400.00	4.79e+08	1.03 y	29:04	-	1.26
24	Tri	PCB-28	400.00	4.54e+08	1.04 y	29:09	-	1.20
25	Tri	PCB-20/21/33	1200.00	1.36e+09	1.02 y	29:47	-	1.19
26	Tri	PCB-22	400.00	4.30e+08	1.01 y	30:13	-	1.13
27	Tri	PCB-36	400.00	3.85e+08	1.00 y	30:49	-	1.10
28	Tri	PCB-39	400.00	3.74e+08	1.01 y	31:18	-	1.07
29	Tri	PCB-38	400.00	4.25e+08	1.04 y	32:04	-	1.22
30	Tri	PCB-35	400.00	4.27e+08	1.04 y	32:35	-	1.23
31	Tri	PCB-37	400.00	4.44e+08	1.06 y	33:02	-	1.27
32	Tetra	PCB-54	400.00	4.13e+08	0.74 y	28:02	-	0.94
33	Tetra	PCB-50	400.00	3.31e+08	0.73 y	29:13	-	0.75
34	Tetra	PCB-53	400.00	3.18e+08	0.73 y	29:51	-	1.09
35	Tetra	PCB-51	400.00	3.35e+08	0.74 y	30:12	-	1.15
36	Tetra	PCB-45	400.00	2.67e+08	0.73 y	30:38	-	0.92
37	Tetra	PCB-46	400.00	2.47e+08	0.72 y	31:07	-	0.85
38	Tetra	PCB-52/69	800.00	6.65e+08	0.72 y	31:36	-	1.15
39	Tetra	PCB-73	400.00	4.07e+08	0.73 y	31:43	-	1.40
40	Tetra	PCB-43/49	800.00	6.39e+08	0.74 y	31:53	-	1.10
41	Tetra	PCB-47	400.00	3.44e+08	0.73 y	32:05	-	1.04

42	Tetra	PCB-48/75	800.00	8.25e+08	0.74	y	32:12	- 1.24
43	Tetra	PCB-65	400.00	4.06e+08	0.73	y	32:28	- 1.22
44	Tetra	PCB-62	400.00	3.83e+08	0.74	y	32:35	- 1.15
45	Tetra	PCB-44	400.00	2.51e+08	0.73	y	32:53	- 0.76
46	Tetra	PCB-42/59	800.00	7.21e+08	0.73	y	33:06	- 1.09
47	Tetra	PCB-41/64/71/72	1600.00	1.70e+09	0.74	y	33:41	- 1.28
48	Tetra	PCB-68	400.00	4.83e+08	0.74	y	33:57	- 1.45
49	Tetra	PCB-40	400.00	2.58e+08	0.74	y	34:09	- 0.78
50	Tetra	PCB-57	400.00	4.23e+08	0.73	y	34:31	- 1.00
51	Tetra	PCB-67	400.00	4.16e+08	0.73	y	34:50	- 0.99
52	Tetra	PCB-58	400.00	4.23e+08	0.74	y	34:57	- 1.00

53	Tetra	PCB-63	400.00	4.44e+08	0.74 y	35:06	-	1.05
54	Tetra	PCB-74	400.00	4.75e+08	0.73 y	35:23	-	1.12
55	Tetra	PCB-61/70	800.00	8.24e+08	0.73 y	35:33	-	0.97
56	Tetra	PCB-76/66	800.00	8.98e+08	0.74 y	35:47	-	1.06
57	Tetra	PCB-80	400.00	5.02e+08	0.75 y	36:01	-	1.18
58	Tetra	PCB-55	400.00	4.59e+08	0.74 y	36:20	-	1.08
59	Tetra	PCB-56/60	800.00	8.76e+08	0.74 y	36:49	-	1.03
60	Tetra	PCB-79	400.00	4.30e+08	0.73 y	37:53	-	1.01
61	Tetra	PCB-78	400.00	4.62e+08	0.73 y	38:35	-	1.11
62	Tetra	PCB-81	400.00	4.78e+08	0.75 y	39:07	-	1.15
63	Tetra	PCB-77	400.00	4.50e+08	0.76 y	39:42	-	1.14
64	Penta	PCB-104	400.00	3.46e+08	1.56 y	32:44	-	1.16
65	Penta	PCB-96	400.00	3.23e+08	1.56 y	33:59	-	1.08
66	Penta	PCB-103	400.00	2.83e+08	1.56 y	34:32	-	0.94
67	Penta	PCB-100	400.00	2.76e+08	1.56 y	34:52	-	0.92
68	Penta	PCB-94	400.00	2.45e+08	1.57 y	35:21	-	1.08
69	Penta	PCB-95/98/102	1200.00	8.28e+08	1.54 y	35:50	-	1.22
70	Penta	PCB-93	400.00	1.85e+08	1.63 y	35:58	-	0.82
71	Penta	PCB-88/91	800.00	4.53e+08	1.54 y	36:15	-	1.00
72	Penta	PCB-121	400.00	3.50e+08	1.58 y	36:22	-	1.55
73	Penta	PCB-84/92	800.00	4.81e+08	1.56 y	37:11	-	1.01
74	Penta	PCB-89	400.00	2.17e+08	1.57 y	37:22	-	0.91
75	Penta	PCB-90/101	800.00	5.22e+08	1.57 y	37:34	-	1.09
76	Penta	PCB-113	400.00	2.96e+08	1.55 y	37:49	-	1.24
77	Penta	PCB-99	400.00	2.51e+08	1.57 y	37:54	-	1.05
78	Penta	PCB-119	400.00	3.64e+08	1.57 y	38:22	-	1.76
79	Penta	PCB-108/112	800.00	5.68e+08	1.57 y	38:31	-	1.37
80	Penta	PCB-83	400.00	3.40e+08	1.58 y	38:41	-	1.64
81	Penta	PCB-97	400.00	2.48e+08	1.55 y	38:52	-	1.20
82	Penta	PCB-86	400.00	1.86e+08	1.65 y	39:01	-	0.90
83	Penta	PCB-87/117/125	1200.00	9.47e+08	1.57 y	39:08	-	1.53
84	Penta	PCB-111/115	800.00	7.12e+08	1.52 y	39:18	-	1.72
85	Penta	PCB-85/116	800.00	5.09e+08	1.62 y	39:26	-	1.23
86	Penta	PCB-120	400.00	3.79e+08	1.56 y	39:40	-	1.83
87	Penta	PCB-110	400.00	3.10e+08	1.58 y	39:49	-	1.50
88	Penta	PCB-82	400.00	1.91e+08	1.57 y	40:27	-	0.68
89	Penta	PCB-124	400.00	3.36e+08	1.55 y	41:07	-	1.20
90	Penta	PCB-107/109	800.00	6.83e+08	1.56 y	41:15	-	1.22
91	Penta	PCB-123	400.00	3.22e+08	1.56 y	41:26	-	1.15
92	Penta	PCB-106/118	800.00	7.08e+08	1.56 y	41:38	-	1.15
93	Penta	PCB-114	400.00	4.01e+08	1.63 y	42:16	-	1.32
94	Penta	PCB-122	400.00	3.55e+08	1.68 y	42:24	-	1.17
95	Penta	PCB-105	400.00	3.96e+08	1.67 y	43:08	-	1.44
96	Penta	PCB-127	400.00	3.51e+08	1.68 y	43:27	-	1.19
97	Penta	PCB-126	400.00	3.80e+08	1.65 y	45:22	-	1.32
98	Hexa	PCB-155	400.00	3.03e+08	1.24 y	37:08	-	1.14
99	Hexa	PCB-150	400.00	2.98e+08	1.23 y	38:23	-	1.12
100	Hexa	PCB-152	400.00	2.90e+08	1.24 y	38:52	-	1.09
101	Hexa	PCB-145	400.00	2.84e+08	1.24 y	39:18	-	1.07
102	Hexa	PCB-136	400.00	2.87e+08	1.24 y	39:38	-	1.08

103	Hexa	PCB-148	400.00	2.10e+08	1.25 y	39:44	-	0.79
104	Hexa	PCB-154	400.00	2.24e+08	1.24 y	40:14	-	0.84
105	Hexa	PCB-151	400.00	2.11e+08	1.25 y	40:52	-	0.79
106	Hexa	PCB-135	400.00	2.08e+08	1.40 y	41:05	-	0.78
107	Hexa	PCB-144	400.00	2.26e+08	1.10 y	41:12	-	0.85
108	Hexa	PCB-147	400.00	1.99e+08	1.23 y	41:19	-	0.75
109	Hexa	PCB-139/149	800.00	4.60e+08	1.23 y	41:35	-	0.86
110	Hexa	PCB-140	400.00	2.02e+08	1.22 y	41:46	-	0.76
111	Hexa	PCB-134/143	800.00	5.51e+08	1.24 y	42:12	-	0.90
112	Hexa	PCB-133/142	800.00	5.43e+08	1.22 y	42:30	-	0.89
113	Hexa	PCB-131	400.00	2.46e+08	1.21 y	42:39	-	0.81

114	Hexa	PCB-146/165	800.00	6.43e+08	1.22 y	42:53	-	1.05
115	Hexa	PCB-132/161	800.00	6.26e+08	1.21 y	43:07	-	1.03
116	Hexa	PCB-153	400.00	3.15e+08	1.21 y	43:17	-	1.03
117	Hexa	PCB-168	400.00	3.92e+08	1.21 y	43:30	-	1.28
118	Hexa	PCB-141	400.00	2.79e+08	1.22 y	44:01	-	1.06
119	Hexa	PCB-137	400.00	2.87e+08	1.17 y	44:24	-	1.09
120	Hexa	PCB-130	400.00	2.37e+08	1.26 y	44:31	-	0.90
121	Hexa	PCB-138/163/164	1200.00	1.05e+09	1.20 y	44:53	-	1.28
122	Hexa	PCB-158/160	800.00	7.31e+08	1.20 y	45:08	-	1.35
123	Hexa	PCB-129	400.00	2.54e+08	1.23 y	45:22	-	0.94
124	Hexa	PCB-166	400.00	3.59e+08	1.21 y	45:50	-	1.06
125	Hexa	PCB-159	400.00	3.81e+08	1.21 y	46:09	-	1.13
126	Hexa	PCB-128/162	800.00	6.54e+08	1.21 y	46:26	-	0.97
127	Hexa	PCB-167	400.00	3.57e+08	1.21 y	46:50	-	1.09
128	Hexa	PCB-156	400.00	3.98e+08	1.22 y	48:07	-	1.19
129	Hexa	PCB-157	400.00	3.91e+08	1.22 y	48:23	-	1.12
130	Hexa	PCB-169	400.00	3.39e+08	1.22 y	50:33	-	1.02
131	Hepta	PCB-188	400.00	3.52e+08	1.05 y	42:56	-	1.38
132	Hepta	PCB-184	400.00	3.14e+08	1.04 y	43:23	-	1.23
133	Hepta	PCB-179	400.00	3.24e+08	1.05 y	44:09	-	1.27
134	Hepta	PCB-176	400.00	3.41e+08	1.04 y	44:37	-	1.34
135	Hepta	PCB-186	400.00	3.41e+08	1.05 y	45:13	-	1.33
136	Hepta	PCB-178	400.00	2.45e+08	1.05 y	45:43	-	0.96
137	Hepta	PCB-175	400.00	2.39e+08	1.05 y	46:04	-	0.94
138	Hepta	PCB-182/187	800.00	5.39e+08	1.05 y	46:14	-	1.05
139	Hepta	PCB-183	400.00	2.80e+08	1.05 y	46:32	-	1.10
140	Hepta	PCB-185	400.00	2.45e+08	1.05 y	47:13	-	1.32
141	Hepta	PCB-174	400.00	2.22e+08	1.04 y	47:34	-	1.19
142	Hepta	PCB-181	400.00	2.44e+08	1.05 y	47:41	-	1.31
143	Hepta	PCB-177	400.00	2.18e+08	1.04 y	47:51	-	1.17
144	Hepta	PCB-171	400.00	2.57e+08	1.04 y	48:08	-	1.38
145	Hepta	PCB-173	400.00	1.93e+08	1.06 y	48:34	-	1.04
146	Hepta	PCB-172	400.00	2.43e+08	1.05 y	49:00	-	1.30
147	Hepta	PCB-192	400.00	3.11e+08	1.04 y	49:12	-	1.67
148	Hepta	PCB-180	400.00	2.42e+08	1.05 y	49:25	-	1.30
149	Hepta	PCB-193	400.00	3.25e+08	1.05 y	49:37	-	1.74
150	Hepta	PCB-191	400.00	3.28e+08	1.04 y	49:53	-	1.76
151	Hepta	PCB-170	400.00	2.28e+08	1.05 y	50:56	-	1.52
152	Hepta	PCB-190	400.00	3.23e+08	1.05 y	51:07	-	2.15
153	Hepta	PCB-189	400.00	3.10e+08	1.04 y	52:27	-	1.56
154	Octa	PCB-202	400.00	2.31e+08	0.89 y	48:21	-	0.95
155	Octa	PCB-201	400.00	2.56e+08	0.88 y	48:50	-	1.06
156	Octa	PCB-204	400.00	2.56e+08	0.88 y	48:50	-	1.06
157	Octa	PCB-197	400.00	2.77e+08	0.89 y	49:17	-	1.14
158	Octa	PCB-200	400.00	2.35e+08	0.89 y	50:11	-	0.97
159	Octa	PCB-198	400.00	1.78e+08	0.90 y	51:32	-	0.73
160	Octa	PCB-199	400.00	1.72e+08	0.89 y	51:39	-	0.71
161	Octa	PCB-196/203	800.00	3.96e+08	0.88 y	51:55	-	0.82
162	Octa	PCB-195	400.00	1.92e+08	0.91 y	53:06	-	1.14
163	Octa	PCB-194	400.00	1.94e+08	0.91 y	53:58	-	1.15

164	Octa	PCB-205	400.00	2.64e+08	0.91 y	54:14	-	1.56
165	Nona	PCB-208	400.00	2.44e+08	1.30 y	53:14	-	0.92
166	Nona	PCB-207	400.00	2.51e+08	1.30 y	53:33	-	0.95
167	Nona	PCB-206	400.00	1.40e+08	1.30 y	55:36	-	0.79
168	Deca	PCB-209	400.00	2.07e+08	1.17 y	56:58	-	1.22
169	Tot ╗	Total Mono-PCB	0.00	-	- n	-	-	1.25
170	Tot ╗	Total Di-PCB	0.00	-	- n	-	-	1.22
171	Tot ╗	Total Tri-PCB	0.00	-	- n	-	-	1.11

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.18
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.08
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.16
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.29
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	0.91
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.06
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.27
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	0.92
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.28
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	0.90
182	Tot ╗	Total Deca-PCB	400.00	2.07e+08	1.17	y	56:58	-	1.22
183	Mono╗	13C-PCB-1	100.00	1.31e+08	3.58	y	16:10	-	0.87
184	Mono╗	13C-PCB-3	100.00	1.48e+08	3.55	y	18:47	-	0.99
185	Di-IS	13C-PCB-4	100.00	9.18e+07	1.61	y	20:07	-	0.61
186	Di-IS	13C-PCB-9	100.00	1.46e+08	1.57	y	21:55	-	0.97
187	Di-IS	13C-PCB-11	100.00	1.45e+08	1.56	y	25:17	-	0.96
188	Tri-╗	13C-PCB-19	100.00	8.61e+07	1.11	y	24:16	-	0.57
189	Tri-╗	13C-PCB-32	100.00	1.28e+08	1.10	y	27:11	-	0.85
190	Tri-╗	13C-PCB-28	100.00	9.48e+07	1.03	y	29:09	-	0.96
191	Tri-╗	13C-PCB-37	100.00	8.72e+07	1.04	y	33:01	-	0.88
192	Tetr╗	13C-PCB-54	100.00	1.10e+08	0.77	y	28:01	-	1.03
193	Tetr╗	13C-PCB-52	100.00	7.25e+07	0.77	y	31:34	-	0.68
194	Tetr╗	13C-PCB-47	100.00	8.30e+07	0.77	y	32:04	-	0.78
195	Tetr╗	13C-PCB-70	100.00	1.06e+08	0.76	y	35:34	-	0.99
196	Tetr╗	13C-PCB-80	100.00	1.06e+08	0.75	y	35:59	-	1.00
197	Tetr╗	13C-PCB-81	100.00	1.04e+08	0.78	y	39:06	-	0.97
198	Tetr╗	13C-PCB-77	100.00	9.87e+07	0.76	y	39:41	-	0.93
199	Pent╗	13C-PCB-104	100.00	7.49e+07	1.60	y	32:43	-	0.95
200	Pent╗	13C-PCB-95	100.00	5.64e+07	1.61	y	35:53	-	0.71
201	Pent╗	13C-PCB-101	100.00	5.96e+07	1.61	y	37:34	-	0.75
202	Pent╗	13C-PCB-97	100.00	5.17e+07	1.63	y	38:51	-	0.65
203	Pent╗	13C-PCB-123	100.00	7.00e+07	1.62	y	41:25	-	0.88
204	Pent╗	13C-PCB-118	100.00	7.68e+07	1.66	y	41:36	-	0.97
205	Pent╗	13C-PCB-114	100.00	7.59e+07	1.59	y	42:15	-	1.23
206	Pent╗	13C-PCB-105	100.00	6.87e+07	1.58	y	43:07	-	1.11
207	Pent╗	13C-PCB-127	100.00	7.37e+07	1.55	y	43:27	-	1.19
208	Pent╗	13C-PCB-126	100.00	7.18e+07	1.55	y	45:21	-	1.16
209	Hexa╗	13C-PCB-155	100.00	6.66e+07	1.26	y	37:06	-	0.84
210	Hexa╗	13C-PCB-153	100.00	7.63e+07	1.28	y	43:16	-	1.23
211	Hexa╗	13C-PCB-141	100.00	6.56e+07	1.29	y	44:01	-	1.06
212	Hexa	13C-PCB-138	100.00	6.79e+07	1.28	y	44:51	-	1.10
213	Hexa╗	13C-PCB-159	100.00	8.47e+07	1.26	y	46:08	-	1.37
214	Hexa╗	13C-PCB-167	100.00	8.20e+07	1.28	y	46:49	-	1.33
215	Hexa╗	13C-PCB-156	100.00	8.33e+07	1.29	y	48:06	-	1.35
216	Hexa╗	13C-PCB-157	100.00	8.77e+07	1.28	y	48:22	-	1.42
217	Hexa╗	13C-PCB-169	100.00	8.32e+07	1.28	y	50:33	-	1.34
218	Hept╗	13C-PCB-188	100.00	6.38e+07	0.45	y	42:54	-	1.03
219	Hept╗	13C-PCB-180	100.00	4.66e+07	0.47	y	49:24	-	0.75
220	Hept╗	13C-PCB-170	100.00	3.75e+07	0.47	y	50:55	-	0.61
221	Hept╗	13C-PCB-189	100.00	4.95e+07	0.46	y	52:26	-	0.80
222	Octa╗	13C-PCB-202	100.00	6.06e+07	0.91	y	48:19	-	0.98

223	Octa╕	13C-PCB-194	100.00	4.22e+07	0.89 y	53:57	-	0.72
224	Nona╕	13C-PCB-208	100.00	6.60e+07	0.76 y	53:14	-	1.12
225	Nona╕	13C-PCB-206	100.00	4.43e+07	0.76 y	55:35	-	0.75
226	Deca╕	13C-PCB-209	100.00	4.22e+07	1.18 y	56:57	-	0.72
227	DI-RS	13C-PCB-15	100.00	1.50e+08	1.58 y	25:59	-	1.00
228	Tri-╕	13C-PCB-31	100.00	9.85e+07	1.04 y	29:02	-	1.00
229	Tetr╕	13C-PCB-60	100.00	1.07e+08	0.78 y	36:49	-	1.00
230	Penta	13C-PCB-111	100.00	7.92e+07	1.60 y	39:17	-	1.00
231	Hexa╕	13C-PCB-128	100.00	6.19e+07	1.30 y	46:24	-	1.00
232	Octa╕	13C-PCB-205	100.00	5.88e+07	0.91 y	54:14	-	1.00

233	CRS	13C-PCB-79	100.00	1.03e+08	0.76 y	37:52	-	0.97
234	CRS	13C-PCB-178	100.00	3.98e+07	0.46 y	45:42	-	0.64
235	PS	13C-PCB-79	100.00	1.03e+08	0.76 y	37:52	-	0.99
236	PS	13C-PCB-178	100.00	3.98e+07	0.46 y	45:42	-	0.85

Filename: 150114E1 S: 8 Acquired: 14-JAN-15 20:09:16
Run: 150114E1 Analyte: ICal: pcbvg8-1-14-15 Results: 150114e1
Sample text: ST150114E1-7 PCB CS5 14L2906

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	1000.00	1.39e+09	2.97 y	16:11	-	1.34
2	Mono	PCB-2	1000.00	1.43e+09	2.99 y	18:34	-	1.33
3	Mono	PCB-3	1000.00	1.41e+09	2.98 y	18:48	-	1.31
4	Di	PCB-4/10	2000.00	2.31e+09	1.62 y	20:11	-	1.54
5	Di	PCB-7/9	2000.00	2.86e+09	1.64 y	21:57	-	1.18
6	Di	PCB-6	1000.00	1.37e+09	1.64 y	22:36	-	1.13
7	Di	PCB-5/8	2000.00	2.86e+09	1.64 y	23:01	-	1.17
8	Di	PCB-14	1000.00	1.67e+09	1.63 y	24:06	-	1.36
9	Di	PCB-11	1000.00	1.43e+09	1.65 y	25:19	-	1.17
10	Di	PCB-12/13	2000.00	2.95e+09	1.62 y	25:42	-	1.20
11	Di	PCB-15	1000.00	1.65e+09	1.61 y	26:01	-	1.35
12	Tri	PCB-19	1000.00	7.86e+08	1.06 y	24:18	-	1.10
13	Tri	PCB-30	1000.00	1.25e+09	1.07 y	25:12	-	1.75
14	Tri	PCB-18	1000.00	8.43e+08	1.06 y	25:56	-	0.78
15	Tri	PCB-17	1000.00	9.23e+08	1.06 y	26:07	-	0.86
16	Tri	PCB-24/27	2000.00	2.55e+09	1.06 y	26:41	-	1.18
17	Tri	PCB-16/32	2000.00	2.05e+09	1.06 y	27:12	-	0.95
18	Tri	PCB-34	1000.00	9.86e+08	1.02 y	28:00	-	1.21
19	Tri	PCB-23	1000.00	8.98e+08	1.04 y	28:05	-	1.10
20	Tri	PCB-29	1000.00	8.94e+08	1.02 y	28:20	-	1.10
21	Tri	PCB-26	1000.00	1.01e+09	1.03 y	28:32	-	1.24
22	Tri	PCB-25	1000.00	8.93e+08	1.01 y	28:43	-	1.10
23	Tri	PCB-31	1000.00	8.93e+08	1.14 y	29:03	-	1.10
24	Tri	PCB-28	1000.00	9.16e+08	0.92 y	29:10	-	1.13
25	Tri	PCB-20/21/33	3000.00	2.41e+09	1.02 y	29:46	-	0.98
26	Tri	PCB-22	1000.00	8.07e+08	1.02 y	30:14	-	0.99
27	Tri	PCB-36	1000.00	9.15e+08	1.01 y	30:50	-	1.27
28	Tri	PCB-39	1000.00	8.14e+08	1.02 y	31:18	-	1.13
29	Tri	PCB-38	1000.00	8.90e+08	1.03 y	32:05	-	1.24
30	Tri	PCB-35	1000.00	9.47e+08	1.02 y	32:36	-	1.31
31	Tri	PCB-37	1000.00	8.87e+08	1.02 y	33:02	-	1.23
32	Tetra	PCB-54	1000.00	8.93e+08	0.74 y	28:03	-	0.94
33	Tetra	PCB-50	1000.00	6.66e+08	0.73 y	29:13	-	0.70
34	Tetra	PCB-53	1000.00	6.07e+08	0.71 y	29:52	-	0.99
35	Tetra	PCB-51	1000.00	6.35e+08	0.73 y	30:12	-	1.04
36	Tetra	PCB-45	1000.00	6.11e+08	0.73 y	30:38	-	1.00
37	Tetra	PCB-46	1000.00	5.24e+08	0.72 y	31:07	-	0.86
38	Tetra	PCB-52/69	2000.00	1.41e+09	0.71 y	31:36	-	1.15
39	Tetra	PCB-73	1000.00	7.43e+08	0.72 y	31:43	-	1.22
40	Tetra	PCB-43/49	2000.00	1.28e+09	0.73 y	31:53	-	1.05

41	Tetra	PCB-47	1000.00	7.82e+08	0.72	y	32:05	- 1.13
42	Tetra	PCB-48/75	2000.00	1.71e+09	0.73	y	32:12	- 1.23
43	Tetra	PCB-65	1000.00	7.98e+08	0.73	y	32:28	- 1.15
44	Tetra	PCB-62	1000.00	9.11e+08	0.74	y	32:35	- 1.31
45	Tetra	PCB-44	1000.00	5.20e+08	0.73	y	32:53	- 0.75
46	Tetra	PCB-42/59	2000.00	1.48e+09	0.73	y	33:06	- 1.07
47	Tetra	PCB-41/64/71/72	4000.00	3.37e+09	0.74	y	33:42	- 1.21
48	Tetra	PCB-68	1000.00	9.93e+08	0.74	y	33:57	- 1.43
49	Tetra	PCB-40	1000.00	5.33e+08	0.73	y	34:10	- 0.77
50	Tetra	PCB-57	1000.00	8.58e+08	0.72	y	34:32	- 0.90
51	Tetra	PCB-67	1000.00	8.68e+08	0.72	y	34:50	- 0.91

52	Tetra	PCB-58	1000.00	9.49e+08	0.74 y	34:57	-	1.00
53	Tetra	PCB-63	1000.00	9.14e+08	0.73 y	35:06	-	0.96
54	Tetra	PCB-74	1000.00	9.90e+08	0.72 y	35:23	-	1.04
55	Tetra	PCB-61/70	2000.00	1.93e+09	0.73 y	35:34	-	1.01
56	Tetra	PCB-76/66	2000.00	1.96e+09	0.74 y	35:47	-	1.03
57	Tetra	PCB-80	1000.00	1.15e+09	0.72 y	36:01	-	1.20
58	Tetra	PCB-55	1000.00	1.10e+09	0.74 y	36:20	-	1.15
59	Tetra	PCB-56/60	2000.00	1.77e+09	0.73 y	36:50	-	0.93
60	Tetra	PCB-79	1000.00	1.06e+09	0.74 y	37:54	-	1.11
61	Tetra	PCB-78	1000.00	9.51e+08	0.73 y	38:36	-	1.01
62	Tetra	PCB-81	1000.00	1.11e+09	0.74 y	39:07	-	1.17
63	Tetra	PCB-77	1000.00	1.06e+09	0.75 y	39:43	-	1.14
64	Penta	PCB-104	1000.00	7.52e+08	1.57 y	32:44	-	1.17
65	Penta	PCB-96	1000.00	6.57e+08	1.58 y	34:00	-	1.02
66	Penta	PCB-103	1000.00	5.75e+08	1.55 y	34:32	-	0.89
67	Penta	PCB-100	1000.00	5.96e+08	1.56 y	34:53	-	0.92
68	Penta	PCB-94	1000.00	5.00e+08	1.57 y	35:22	-	1.03
69	Penta	PCB-95/98/102	3000.00	1.69e+09	1.56 y	35:51	-	1.16
70	Penta	PCB-93	1000.00	4.91e+08	1.60 y	35:59	-	1.01
71	Penta	PCB-88/91	2000.00	9.64e+08	1.55 y	36:15	-	0.99
72	Penta	PCB-121	1000.00	8.72e+08	1.59 y	36:22	-	1.79
73	Penta	PCB-84/92	2000.00	1.03e+09	1.54 y	37:12	-	0.95
74	Penta	PCB-89	1000.00	4.76e+08	1.58 y	37:23	-	0.87
75	Penta	PCB-90/101	2000.00	1.17e+09	1.56 y	37:33	-	1.07
76	Penta	PCB-113	1000.00	6.26e+08	1.54 y	37:48	-	1.15
77	Penta	PCB-99	1000.00	6.40e+08	1.57 y	37:54	-	1.17
78	Penta	PCB-119	1000.00	7.94e+08	1.57 y	38:22	-	1.72
79	Penta	PCB-108/112	2000.00	1.19e+09	1.57 y	38:31	-	1.29
80	Penta	PCB-83	1000.00	6.87e+08	1.56 y	38:40	-	1.49
81	Penta	PCB-97	1000.00	5.38e+08	1.56 y	38:53	-	1.17
82	Penta	PCB-86	1000.00	4.30e+08	1.55 y	39:01	-	0.93
83	Penta	PCB-87/117/125	3000.00	2.08e+09	1.58 y	39:09	-	1.50
84	Penta	PCB-111/115	2000.00	1.58e+09	1.55 y	39:18	-	1.71
85	Penta	PCB-85/116	2000.00	1.24e+09	1.58 y	39:26	-	1.34
86	Penta	PCB-120	1000.00	8.48e+08	1.57 y	39:41	-	1.84
87	Penta	PCB-110	1000.00	7.10e+08	1.58 y	39:49	-	1.54
88	Penta	PCB-82	1000.00	4.02e+08	1.56 y	40:26	-	0.64
89	Penta	PCB-124	1000.00	8.06e+08	1.55 y	41:07	-	1.28
90	Penta	PCB-107/109	2000.00	1.56e+09	1.57 y	41:16	-	1.24
91	Penta	PCB-123	1000.00	7.24e+08	1.56 y	41:26	-	1.15
92	Penta	PCB-106/118	2000.00	1.59e+09	1.57 y	41:38	-	1.16
93	Penta	PCB-114	1000.00	9.36e+08	1.65 y	42:17	-	1.36
94	Penta	PCB-122	1000.00	7.65e+08	1.67 y	42:25	-	1.11
95	Penta	PCB-105	1000.00	9.43e+08	1.66 y	43:07	-	1.41
96	Penta	PCB-127	1000.00	8.39e+08	1.66 y	43:28	-	1.18
97	Penta	PCB-126	1000.00	8.19e+08	1.68 y	45:22	-	1.33
98	Hexa	PCB-155	1000.00	6.54e+08	1.24 y	37:08	-	1.12
99	Hexa	PCB-150	1000.00	6.42e+08	1.24 y	38:23	-	1.10
100	Hexa	PCB-152	1000.00	6.30e+08	1.24 y	38:52	-	1.08
101	Hexa	PCB-145	1000.00	6.31e+08	1.25 y	39:19	-	1.08

102	Hexa	PCB-136	1000.00	6.49e+08	1.38 y	39:38	-	1.11
103	Hexa	PCB-148	1000.00	4.68e+08	1.07 y	39:44	-	0.80
104	Hexa	PCB-154	1000.00	4.88e+08	1.24 y	40:14	-	0.84
105	Hexa	PCB-151	1000.00	4.67e+08	1.25 y	40:52	-	0.80
106	Hexa	PCB-135	1000.00	4.74e+08	1.23 y	41:05	-	0.81
107	Hexa	PCB-144	1000.00	5.08e+08	1.24 y	41:11	-	0.87
108	Hexa	PCB-147	1000.00	4.71e+08	1.25 y	41:19	-	0.81
109	Hexa	PCB-139/149	2000.00	1.03e+09	1.24 y	41:35	-	0.88
110	Hexa	PCB-140	1000.00	4.41e+08	1.24 y	41:46	-	0.76
111	Hexa	PCB-134/143	2000.00	1.22e+09	1.22 y	42:12	-	0.88
112	Hexa	PCB-133/142	2000.00	1.23e+09	1.22 y	42:29	-	0.88

113	Hexa	PCB-131	1000.00	5.60e+08	1.22 y	42:40	-	0.80
114	Hexa	PCB-146/165	2000.00	1.48e+09	1.21 y	42:52	-	1.06
115	Hexa	PCB-132/161	2000.00	1.49e+09	1.22 y	43:07	-	1.07
116	Hexa	PCB-153	1000.00	7.14e+08	1.23 y	43:18	-	1.02
117	Hexa	PCB-168	1000.00	9.13e+08	1.23 y	43:31	-	1.31
118	Hexa	PCB-141	1000.00	6.28e+08	1.20 y	44:02	-	1.06
119	Hexa	PCB-137	1000.00	6.54e+08	1.18 y	44:25	-	1.10
120	Hexa	PCB-130	1000.00	5.46e+08	1.23 y	44:31	-	0.92
121	Hexa	PCB-138/163/164	3000.00	2.41e+09	1.21 y	44:54	-	1.26
122	Hexa	PCB-158/160	2000.00	1.71e+09	1.21 y	45:08	-	1.34
123	Hexa	PCB-129	1000.00	5.54e+08	1.21 y	45:22	-	0.87
124	Hexa	PCB-166	1000.00	8.34e+08	1.21 y	45:49	-	1.08
125	Hexa	PCB-159	1000.00	8.85e+08	1.18 y	46:09	-	1.15
126	Hexa	PCB-128/162	2000.00	1.48e+09	1.19 y	46:26	-	0.96
127	Hexa	PCB-167	1000.00	8.20e+08	1.22 y	46:49	-	1.09
128	Hexa	PCB-156	1000.00	9.21e+08	1.23 y	48:08	-	1.19
129	Hexa	PCB-157	1000.00	9.13e+08	1.23 y	48:23	-	1.13
130	Hexa	PCB-169	1000.00	7.98e+08	1.22 y	50:33	-	1.03
131	Hepta	PCB-188	1000.00	7.95e+08	1.05 y	42:56	-	1.38
132	Hepta	PCB-184	1000.00	7.03e+08	1.05 y	43:22	-	1.22
133	Hepta	PCB-179	1000.00	7.20e+08	1.05 y	44:09	-	1.25
134	Hepta	PCB-176	1000.00	7.64e+08	1.05 y	44:37	-	1.32
135	Hepta	PCB-186	1000.00	7.73e+08	1.05 y	45:13	-	1.34
136	Hepta	PCB-178	1000.00	5.43e+08	1.05 y	45:43	-	0.94
137	Hepta	PCB-175	1000.00	5.58e+08	1.04 y	46:04	-	0.97
138	Hepta	PCB-182/187	2000.00	1.19e+09	1.05 y	46:14	-	1.03
139	Hepta	PCB-183	1000.00	6.25e+08	1.04 y	46:33	-	1.08
140	Hepta	PCB-185	1000.00	5.42e+08	1.05 y	47:13	-	1.27
141	Hepta	PCB-174	1000.00	5.22e+08	1.04 y	47:35	-	1.22
142	Hepta	PCB-181	1000.00	5.36e+08	1.05 y	47:41	-	1.25
143	Hepta	PCB-177	1000.00	4.84e+08	1.05 y	47:51	-	1.13
144	Hepta	PCB-171	1000.00	5.90e+08	1.05 y	48:08	-	1.38
145	Hepta	PCB-173	1000.00	4.55e+08	1.05 y	48:34	-	1.06
146	Hepta	PCB-172	1000.00	5.42e+08	1.04 y	49:01	-	1.27
147	Hepta	PCB-192	1000.00	6.95e+08	1.06 y	49:13	-	1.63
148	Hepta	PCB-180	1000.00	5.49e+08	1.04 y	49:25	-	1.29
149	Hepta	PCB-193	1000.00	7.36e+08	1.05 y	49:37	-	1.72
150	Hepta	PCB-191	1000.00	7.57e+08	1.05 y	49:53	-	1.77
151	Hepta	PCB-170	1000.00	5.24e+08	1.04 y	50:56	-	1.55
152	Hepta	PCB-190	1000.00	7.39e+08	1.05 y	51:06	-	2.18
153	Hepta	PCB-189	1000.00	7.06e+08	1.05 y	52:27	-	1.55
154	Octa	PCB-202	1000.00	5.29e+08	0.89 y	48:21	-	0.96
155	Octa	PCB-201	1000.00	5.60e+08	0.88 y	48:50	-	1.02
156	Octa	PCB-204	1000.00	5.48e+08	0.88 y	48:59	-	1.00
157	Octa	PCB-197	1000.00	6.09e+08	0.89 y	49:17	-	1.11
158	Octa	PCB-200	1000.00	5.29e+08	0.88 y	50:11	-	0.96
159	Octa	PCB-198	1000.00	4.13e-08	0.96 y	51:32	-	0.75
160	Octa	PCB-199	1000.00	3.88e+08	0.81 y	51:38	-	0.71
161	Octa	PCB-196/203	2000.00	8.89e+08	0.89 y	51:55	-	0.81
162	Octa	PCB-195	1000.00	4.52e-08	0.91 y	53:05	-	1.16

163	Octa		PCB-194	1000.00	4.45e+08	0.90	y	53:58	- 1.14
164	Octa		PCB-205	1000.00	5.99e+08	0.92	y	54:15	- 1.53
165	Nona		PCB-208	1000.00	5.57e+08	1.30	y	53:14	- 0.91
166	Nona		PCB-207	1000.00	5.77e+08	1.31	y	53:33	- 0.95
167	Nona		PCB-206	1000.00	3.20e+08	1.30	y	55:35	- 0.79
168	Deca		PCB-209	1000.00	4.90e+08	1.17	y	56:57	- 1.23
169	Tot ╗	Total Mono-PCB		0.00	-	-	n	-	- 1.33
170	Tot ╗	Total Di-PCB		0.00	-	-	n	-	- 1.23

171	Tot ก	Total Tri-PCB	0.00	-		-	n	-	-	1.10
172	Tot ก	Total Tri-PCB	0.00	-		-	n	-	-	1.13
173	Tot ก	Total Tetra-PCB	0.00	-		-	n	-	-	1.04
174	Tot ก	Total Penta-PCB	0.00	-		-	n	-	-	1.14
175	Tot ก	Total Penta-PCB	0.00	-		-	n	-	-	1.28
176	Tot ก	Total Hexa-PCB	0.00	-		-	n	-	-	0.93
177	Tot ก	Total Hexa-PCB	0.00	-		-	n	-	-	1.06
178	Tot ก	Total Hepta-PCB	0.00	-		-	n	-	-	1.26
179	Tot ก	Total Octa-PCB	0.00	-		-	n	-	-	0.90
180	Tot ก	Total Octa-PCB	0.00	-		-	n	-	-	1.28
181	Tot ก	Total Nona-PCB	0.00	-		-	n	-	-	0.90
182	Tot ก	Total Deca-PCB	1000.00	4.90e+08	1.17	y	56:57	-	-	1.23
183	Mono ก	13C-PCB-1	100.00	1.04e+08	3.59	y	16:10	-	-	0.78
184	Mono ก	13C-PCB-3	100.00	1.08e+08	3.59	y	18:47	-	-	0.81
185	Di-IS	13C-PCB-4	100.00	7.50e+07	1.62	y	20:07	-	-	0.57
186	Di-IS	13C-PCB-9	100.00	1.22e+08	1.57	y	21:55	-	-	0.92
187	Di-IS	13C-PCB-11	100.00	1.23e+08	1.57	y	25:17	-	-	0.93
188	Tri-ก	13C-PCB-19	100.00	7.15e+07	1.09	y	24:17	-	-	0.54
189	Tri-ก	13C-PCB-32	100.00	1.08e+08	1.10	y	27:12	-	-	0.81
190	Tri-ก	13C-PCB-28	100.00	8.14e+07	1.06	y	29:09	-	-	1.15
191	Tri-ก	13C-PCB-37	100.00	7.21e+07	1.00	y	33:01	-	-	1.02
192	Tetr ก	13C-PCB-54	100.00	9.52e+07	0.76	y	28:02	-	-	1.08
193	Tetr ก	13C-PCB-52	100.00	6.10e+07	0.76	y	31:34	-	-	0.69
194	Tetr ก	13C-PCB-47	100.00	6.93e+07	0.76	y	32:04	-	-	0.79
195	Tetr ก	13C-PCB-70	100.00	9.52e+07	0.77	y	35:35	-	-	1.08
196	Tetr ก	13C-PCB-80	100.00	9.56e+07	0.77	y	36:00	-	-	1.08
197	Tetr ก	13C-PCB-81	100.00	9.43e+07	0.77	y	39:06	-	-	1.07
198	Tetr ก	13C-PCB-77	100.00	9.31e+07	0.78	y	39:42	-	-	1.06
199	Pent ก	13C-PCB-104	100.00	6.44e+07	1.60	y	32:43	-	-	0.89
200	Pent ก	13C-PCB-95	100.00	4.86e+07	1.62	y	35:53	-	-	0.67
201	Pent ก	13C-PCB-101	100.00	5.46e+07	1.67	y	37:33	-	-	0.75
202	Pent ก	13C-PCB-97	100.00	4.62e+07	1.66	y	38:52	-	-	0.64
203	Pent ก	13C-PCB-123	100.00	6.30e+07	1.65	y	41:25	-	-	0.87
204	Pent ก	13C-PCB-118	100.00	6.84e+07	1.63	y	41:36	-	-	0.95
205	Pent ก	13C-PCB-114	100.00	6.88e+07	1.63	y	42:15	-	-	1.25
206	Pent ก	13C-PCB-105	100.00	6.67e+07	1.58	y	43:07	-	-	1.21
207	Pent ก	13C-PCB-127	100.00	7.14e+07	1.58	y	43:27	-	-	1.30
208	Pent ก	13C-PCB-126	100.00	6.15e+07	1.59	y	45:21	-	-	1.12
209	Hexa ก	13C-PCB-155	100.00	5.83e+07	1.23	y	37:06	-	-	0.81
210	Hexa ก	13C-PCB-153	100.00	6.98e+07	1.26	y	43:17	-	-	1.27
211	Hexa ก	13C-PCB-141	100.00	5.93e+07	1.28	y	44:01	-	-	1.08
212	Hexa	13C-PCB-138	100.00	6.37e+07	1.29	y	44:51	-	-	1.16
213	Hexa ก	13C-PCB-159	100.00	7.72e+07	1.27	y	46:08	-	-	1.41
214	Hexa ก	13C-PCB-167	100.00	7.55e+07	1.27	y	46:49	-	-	1.37
215	Hexa ก	13C-PCB-156	100.00	7.74e+07	1.26	y	48:07	-	-	1.41
216	Hexa ก	13C-PCB-157	100.00	8.11e+07	1.28	y	48:23	-	-	1.48
217	Hexa ก	13C-PCB-169	100.00	7.75e+07	1.26	y	50:33	-	-	1.41
218	Hept ก	13C-PCB-188	100.00	5.77e+07	0.46	y	42:55	-	-	1.05
219	Hept ก	13C-PCB-180	100.00	4.27e+07	0.47	y	49:24	-	-	0.78
220	Hept ก	13C-PCB-170	100.00	3.39e+07	0.46	y	50:55	-	-	0.62
221	Hept ก	13C-PCB-189	100.00	4.55e+07	0.47	y	52:26	-	-	0.83

222	Octa╗	13C-PCB-202	100.00	5.50e+07	0.90 y	48:20	-	1.00
223	Octa╗	13C-PCB-194	100.00	3.90e+07	0.88 y	53:57	-	0.72
224	Nona╗	13C-PCB-208	100.00	6.09e+07	0.76 y	53:14	-	1.13
225	Nona╗	13C-PCB-206	100.00	4.02e+07	0.78 y	55:35	-	0.74
226	Deca╗	13C-PCB-209	100.00	3.99e+07	1.19 y	56:56	-	0.74
227	DI-RS	13C-PCB-15	100.00	1.33e+08	1.59 y	26:00	-	1.00
228	Tri-╗	13C-PCB-31	100.00	7.06e+07	1.04 y	29:03	-	1.00
229	Tetr╗	13C-PCB-60	100.00	8.83e+07	0.76 y	36:49	-	1.00
230	Penta	13C-PCB-111	100.00	7.23e+07	1.63 y	39:18	-	1.00
231	Hexa╗	13C-PCB-128	100.00	5.49e+07	1.27 y	46:25	-	1.00

232	Octa카	13C-PCB-205	100.00	5.41e+07	0.88	y	54:14	-	1.00
233	CRS	13C-PCB-79	100.00	9.97e+07	0.78	y	37:53	-	1.13
234	CRS	13C-PCB-178	100.00	3.44e+07	0.46	y	45:42	-	0.63
235	PS	13C-PCB-79	100.00	9.97e+07	0.78	y	37:53	-	1.06
236	PS	13C-PCB-178	100.00	3.44e+07	0.46	y	45:42	-	0.80

Filename: 150116E1 S: 2 Acquired: 16-JAN-15 08:51:27
Run: 150114e1 Analyte: ICal: pcbvg8-1-14-15 Results: 150114e1
Sample text: ST150116E1-2 PCB CS0 14L2902

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Mono	PCB-1	0.25	8.23e+05	2.94 y	16:10	-	1.40
2	Mono	PCB-2	0.25	8.54e+05	2.97 y	18:33	-	1.25
3	Mono	PCB-3	0.25	8.73e+05	2.80 y	18:47	-	1.27
4	Di	PCB-4/10	0.50	1.52e+06	1.35 y	20:10	-	1.98
5	Di	PCB-7/9	0.50	1.84e+06	1.60 y	21:57	-	1.43
6	Di	PCB-6	0.25	9.02e+05	1.49 y	22:35	-	1.41
7	Di	PCB-5/8	0.50	1.93e+06	1.40 y	23:00	-	1.50
8	Di	PCB-14	0.25	1.06e+06	1.71 y	24:06	-	1.64
9	Di	PCB-11	0.25	9.73e+05	1.71 y	25:18	-	1.51
10	Di	PCB-12/13	0.50	1.86e+06	1.64 y	25:41	-	1.44
11	Di	PCB-15	0.25	1.11e+06	1.59 y	25:59	-	1.72
12	Tri	PCB-19	0.25	4.86e+05	1.00 y	24:16	-	1.32
13	Tri	PCB-30	0.25	7.78e+05	1.01 y	25:10	-	2.11
14	Tri	PCB-18	0.25	5.31e+05	1.06 y	25:55	-	0.98
15	Tri	PCB-17	0.25	5.95e+05	0.99 y	26:05	-	1.10
16	Tri	PCB-24/27	0.50	1.64e+06	1.07 y	26:40	-	1.52
17	Tri	PCB-16/32	0.50	1.35e+06	1.01 y	27:10	-	1.25
18	Tri	PCB-34	0.25	6.39e+05	1.00 y	27:59	-	1.53
19	Tri	PCB-23	0.25	5.74e+05	1.11 y	28:05	-	1.37
20	Tri	PCB-29	0.25	5.69e+05	0.97 y	28:19	-	1.36
21	Tri	PCB-26	0.25	5.52e+05	1.11 y	28:32	-	1.32
22	Tri	PCB-25	0.25	4.36e+05	1.04 y	28:41	-	1.04
23	Tri	PCB-31	0.25	5.79e+05	1.08 y	29:02	-	1.38
24	Tri	PCB-28	0.25	5.76e+05	1.10 y	29:08	-	1.38
25	Tri	PCB-20/21/33	0.75	1.58e+06	1.08 y	29:46	-	1.26
26	Tri	PCB-22	0.25	5.67e+05	1.08 y	30:12	-	1.36
27	Tri	PCB-36	0.25	5.70e+05	0.95 y	30:49	-	1.42
28	Tri	PCB-39	0.25	5.42e+05	0.91 y	31:18	-	1.35
29	Tri	PCB-38	0.25	4.87e+05	1.13 y	32:03	-	1.22
30	Tri	PCB-35	0.25	5.42e+05	0.99 y	32:35	-	1.35
31	Tri	PCB-37	0.25	6.21e+05	1.00 y	33:01	-	1.55
32	Tetra	PCB-54	0.25	5.77e+05	0.67 y	28:01	-	1.21
33	Tetra	PCB-50	0.25	4.13e+05	0.75 y	29:12	-	0.87
34	Tetra	PCB-53	0.25	4.43e+05	0.78 y	29:50	-	1.36
35	Tetra	PCB-51	0.25	4.07e+05	0.88 y	30:11	-	1.25
36	Tetra	PCB-45	0.25	4.06e+05	0.68 y	30:37	-	1.25
37	Tetra	PCB-46	0.25	3.73e+05	0.69 y	31:06	-	1.15
38	Tetra	PCB-52/69	0.50	9.67e+05	0.72 y	31:35	-	1.49
39	Tetra	PCB-73	0.25	5.44e+05	0.66 y	31:42	-	1.67
40	Tetra	PCB-43/49	0.50	8.95e+05	0.73 y	31:52	-	1.37
41	Tetra	PCB-47	0.25	5.18e+05	0.66 y	32:04	-	1.53

42	Tetra	PCB-48/75	0.50	1.05e+06	0.73	y	32:11	-	1.56
43	Tetra	PCB-65	0.25	5.56e+05	0.78	y	32:27	-	1.64
44	Tetra	PCB-62	0.25	5.62e-05	0.80	y	32:33	-	1.66
45	Tetra	PCB-44	0.25	3.84e+05	0.80	y	32:52	-	1.13
46	Tetra	PCB-42/59	0.50	1.09e+06	0.73	y	33:05	-	1.61
47	Tetra	PCB-41/64/71/72	1.00	2.24e+06	0.68	y	33:40	-	1.65
48	Tetra	PCB-68	0.25	7.48e+05	0.76	y	33:56	-	2.21
49	Tetra	PCB-40	0.25	3.78e+05	0.77	y	34:08	-	1.11
50	Tetra	PCB-57	0.25	6.40e+05	0.76	y	34:30	-	1.44
51	Tetra	PCB-67	0.25	6.01e+05	0.76	y	34:48	-	1.35
52	Tetra	PCB-58	0.25	6.11e+05	0.84	y	34:56	-	1.37

53	Tetra	PCB-63	0.25	6.42e+05	0.73 y	35:05	-	1.44
54	Tetra	PCB-74	0.25	6.79e+05	0.76 y	35:22	-	1.52
55	Tetra	PCB-61/70	0.50	1.26e+06	0.79 y	35:32	-	1.42
56	Tetra	PCB-76/66	0.50	1.38e+06	0.72 y	35:46	-	1.55
57	Tetra	PCB-80	0.25	7.76e+05	0.66 y	36:00	-	1.65
58	Tetra	PCB-55	0.25	7.25e+05	0.69 y	36:19	-	1.54
59	Tetra	PCB-56/60	0.50	1.33e+06	0.69 y	36:48	-	1.40
60	Tetra	PCB-79	0.25	6.44e+05	0.72 y	37:52	-	1.37
61	Tetra	PCB-78	0.25	7.03e+05	0.86 y	38:34	-	1.51
62	Tetra	PCB-81	0.25	7.65e+05	0.71 y	39:06	-	1.64
63	Tetra	PCB-77	0.25	7.30e+05	0.72 y	39:41	-	1.65
64	Penta	PCB-104	0.25	5.67e+05	1.55 y	32:43	-	1.50
65	Penta	PCB-96	0.25	4.70e+05	1.56 y	33:59	-	1.25
66	Penta	PCB-103	0.25	3.98e+05	1.40 y	34:31	-	1.05
67	Penta	PCB-100	0.25	3.93e+05	1.57 y	34:52	-	1.04
68	Penta	PCB-94	0.25	3.35e+05	1.51 y	35:21	-	1.26
69	Penta	PCB-95/98/102	0.75	1.21e+06	1.44 y	35:49	-	1.52
70	Penta	PCB-93	0.25	3.27e+05	1.57 y	35:58	-	1.23
71	Penta	PCB-88/91	0.50	6.67e+05	1.73 y	36:14	-	1.26
72	Penta	PCB-121	0.25	5.54e+05	1.37 y	36:21	-	2.09
73	Penta	PCB-84/92	0.50	7.20e+05	1.52 y	37:11	-	1.20
74	Penta	PCB-89	0.25	3.45e+05	1.57 y	37:22	-	1.15
75	Penta	PCB-90/101	0.50	8.67e+05	1.49 y	37:33	-	1.45
76	Penta	PCB-113	0.25	4.42e+05	1.63 y	37:47	-	1.48
77	Penta	PCB-99	0.25	4.77e+05	1.32 y	37:53	-	1.59
78	Penta	PCB-119	0.25	5.55e+05	1.73 y	38:22	-	2.15
79	Penta	PCB-108/112	0.50	7.83e+05	1.67 y	38:31	-	1.51
80	Penta	PCB-83	0.25	4.64e+05	1.57 y	38:40	-	1.80
81	Penta	PCB-97	0.25	3.95e+05	1.40 y	38:52	-	1.53
82	Penta	PCB-86	0.25	3.56e+05	1.44 y	39:00	-	1.38
83	Penta	PCB-87/117/125	0.75	1.35e+06	1.64 y	39:08	-	1.74
84	Penta	PCB-111/115	0.50	1.14e+06	1.55 y	39:17	-	2.20
85	Penta	PCB-85/116	0.50	8.83e+05	1.60 y	39:25	-	1.71
86	Penta	PCB-120	0.25	6.10e+05	1.61 y	39:40	-	2.36
87	Penta	PCB-110	0.25	5.31e+05	1.49 y	39:48	-	2.05
88	Penta	PCB-82	0.25	3.08e+05	1.51 y	40:25	-	0.89
89	Penta	PCB-124	0.25	4.70e+05	1.54 y	41:06	-	1.36
90	Penta	PCB-107/109	0.50	1.12e+06	1.59 y	41:14	-	1.62
91	Penta	PCB-123	0.25	5.08e+05	1.71 y	41:26	-	1.47
92	Penta	PCB-106/118	0.50	1.14e+06	1.54 y	41:37	-	1.58
93	Penta	PCB-114	0.25	6.35e+05	1.49 y	42:16	-	1.70
94	Penta	PCB-122	0.25	5.14e+05	1.72 y	42:23	-	1.38
95	Penta	PCB-105	0.25	6.49e+05	1.73 y	43:07	-	1.79
96	Penta	PCB-127	0.25	5.82e+05	1.76 y	43:28	-	1.53
97	Penta	PCB-126	0.25	5.40e+05	1.61 y	45:21	-	1.55
98	Hexa	PCB-155	0.25	4.38e+05	1.32 y	37:07	-	1.33
99	Hexa	PCB-150	0.25	4.32e+05	1.10 y	38:22	-	1.31
100	Hexa	PCB-152	0.25	4.91e+05	1.20 y	38:51	-	1.49
101	Hexa	PCB-145	0.25	4.05e+05	1.30 y	39:17	-	1.23
102	Hexa	PCB-136	0.25	4.29e+05	1.20 y	39:37	-	1.30

103	Hexa	PCB-148	0.25	3.04e+05	1.36 y	39:43	-	0.92
104	Hexa	PCB-154	0.25	3.60e+05	1.19 y	40:13	-	1.09
105	Hexa	PCB-151	0.25	3.00e+05	1.24 y	40:50	-	0.91
106	Hexa	PCB-135	0.25	2.94e+05	1.38 y	41:04	-	0.89
107	Hexa	PCB-144	0.25	3.27e+05	1.29 y	41:10	-	0.99
108	Hexa	PCB-147	0.25	3.02e+05	1.31 y	41:18	-	0.92
109	Hexa	PCB-139/149	0.50	6.50e+05	1.18 y	41:34	-	0.99
110	Hexa	PCB-140	0.25	2.95e+05	1.42 y	41:45	-	0.90
111	Hexa	PCB-134/143	0.50	8.06e+05	1.27 y	42:11	-	1.08
112	Hexa	PCB-133/142	0.50	7.42e+05	1.18 y	42:29	-	1.00
113	Hexa	PCB-131	0.25	3.29e+05	1.26 y	42:39	-	0.89

114	Hexa	PCB-146/165	0.50	8.57e+05	1.23 y	42:52	-	1.15
115	Hexa	PCB-132/161	0.50	9.37e+05	1.30 y	43:07	-	1.26
116	Hexa	PCB-153	0.25	5.93e+05	1.35 y	43:16	-	1.60
117	Hexa	PCB-168	0.25	5.66e+05	1.42 y	43:30	-	1.52
118	Hexa	PCB-141	0.25	4.25e+05	1.18 y	44:01	-	1.36
119	Hexa	PCB-137	0.25	4.29e+05	1.26 y	44:24	-	1.38
120	Hexa	PCB-130	0.25	3.31e+05	1.11 y	44:30	-	1.06
121	Hexa	PCB-138/163/164	0.75	1.63e+06	1.16 y	44:53	-	1.69
122	Hexa	PCB-158/160	0.50	1.19e+06	1.31 y	45:07	-	1.84
123	Hexa	PCB-129	0.25	3.95e+05	1.21 y	45:21	-	1.23
124	Hexa	PCB-166	0.25	5.35e+05	1.28 y	45:49	-	1.37
125	Hexa	PCB-159	0.25	5.69e+05	1.35 y	46:08	-	1.46
126	Hexa	PCB-128/162	0.50	9.34e+05	1.12 y	46:26	-	1.20
127	Hexa	PCB-167	0.25	5.71e+05	1.24 y	46:49	-	1.42
128	Hexa	PCB-156	0.25	5.58e+05	1.24 y	48:06	-	1.44
129	Hexa	PCB-157	0.25	5.78e+05	1.29 y	48:22	-	1.41
130	Hexa	PCB-169	0.25	4.98e+05	1.30 y	50:32	-	1.20
131	Hepta	PCB-188	0.25	5.36e+05	0.97 y	42:55	-	1.88
132	Hepta	PCB-184	0.25	4.31e+05	1.00 y	43:22	-	1.51
133	Hepta	PCB-179	0.25	4.62e+05	1.08 y	44:08	-	1.62
134	Hepta	PCB-176	0.25	4.83e+05	1.07 y	44:36	-	1.69
135	Hepta	PCB-186	0.25	4.94e+05	1.00 y	45:13	-	1.73
136	Hepta	PCB-178	0.25	3.70e+05	1.00 y	45:42	-	1.30
137	Hepta	PCB-175	0.25	3.47e+05	1.08 y	46:02	-	1.22
138	Hepta	PCB-182/187	0.50	7.45e+05	1.05 y	46:13	-	1.31
139	Hepta	PCB-183	0.25	4.00e+05	0.93 y	46:33	-	1.40
140	Hepta	PCB-185	0.25	3.66e+05	0.97 y	47:12	-	1.68
141	Hepta	PCB-174	0.25	3.21e+05	1.06 y	47:34	-	1.47
142	Hepta	PCB-181	0.25	3.20e+05	1.15 y	47:40	-	1.46
143	Hepta	PCB-177	0.25	3.38e+05	1.05 y	47:50	-	1.55
144	Hepta	PCB-171	0.25	3.67e+05	1.16 y	48:07	-	1.68
145	Hepta	PCB-173	0.25	2.66e+05	1.19 y	48:33	-	1.22
146	Hepta	PCB-172	0.25	3.69e+05	0.98 y	48:59	-	1.69
147	Hepta	PCB-192	0.25	4.47e+05	1.15 y	49:11	-	2.05
148	Hepta	PCB-180	0.25	3.93e+05	1.10 y	49:24	-	1.80
149	Hepta	PCB-193	0.25	4.76e+05	0.93 y	49:36	-	2.18
150	Hepta	PCB-191	0.25	4.59e+05	1.01 y	49:51	-	2.10
151	Hepta	PCB-170	0.25	3.50e+05	0.92 y	50:55	-	2.01
152	Hepta	PCB-190	0.25	4.53e+05	1.20 y	51:05	-	2.60
153	Hepta	PCB-189	0.25	4.45e+05	1.16 y	52:25	-	1.88
154	Octa	PCB-202	0.25	3.30e+05	0.89 y	48:20	-	1.16
155	Octa	PCB-201	0.25	3.56e+05	0.82 y	48:49	-	1.25
156	Octa	PCB-204	0.25	3.77e+05	0.86 y	48:58	-	1.33
157	Octa	PCB-197	0.25	3.89e+05	0.83 y	49:17	-	1.37
158	Octa	PCB-200	0.25	3.52e+05	0.82 y	50:10	-	1.24
159	Octa	PCB-198	0.25	2.51e+05	0.98 y	51:31	-	0.88
160	Octa	PCB-199	0.25	2.48e+05	0.90 y	51:38	-	0.87
161	Octa	PCB-196/203	0.50	5.74e+05	0.85 y	51:54	-	1.01
162	Octa	PCB-195	0.25	2.88e-05	0.95 y	53:05	-	1.34
163	Octa	PCB-194	0.25	3.47e+05	0.88 y	53:57	-	1.61

164	Octa		PCB-205	0.25	4.05e+05	0.83	y	54:13	- 1.88
165	Nona		PCB-208	0.25	3.37e+05	1.26	y	53:14	- 1.18
166	Nona		PCB-207	0.25	3.54e+05	1.38	y	53:33	- 1.24
167	Nona		PCB-206	0.25	2.13e+05	1.52	y	55:34	- 1.08
168	Deca		PCB-209	0.25	3.27e+05	1.27	y	56:56	- 1.69
169	Tot ╗	Total Mono-PCB		0.00	-	-	n	-	- 1.30
170	Tot ╗	Total Di-PCB		0.00	-	-	n	-	- 1.52
171	Tot ╗	Total Tri-PCB		0.00	-	-	n	-	- 1.39

172	Tot ╗	Total Tri-PCB	0.00	-	-	n	-	-	1.34
173	Tot ╗	Total Tetra-PCB	0.00	-	-	n	-	-	1.42
174	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.42
175	Tot ╗	Total Penta-PCB	0.00	-	-	n	-	-	1.59
176	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.09
177	Tot ╗	Total Hexa-PCB	0.00	-	-	n	-	-	1.32
178	Tot ╗	Total Hepta-PCB	0.00	-	-	n	-	-	1.61
179	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.12
180	Tot ╗	Total Octa-PCB	0.00	-	-	n	-	-	1.61
181	Tot ╗	Total Nona-PCB	0.00	-	-	n	-	-	1.18
182	Tot ╗	Total Deca-PCB	0.25	3.27e+05	1.27	y	56:56	-	1.69
183	Mono╗	13C-PCB-1	100.00	2.35e+08	3.49	y	16:09	-	0.87
184	Mono╗	13C-PCB-3	100.00	2.74e+08	3.42	y	18:46	-	1.01
185	Di-IS	13C-PCB-4	100.00	1.53e+08	1.60	y	20:06	-	0.57
186	Di-IS	13C-PCB-9	100.00	2.57e+08	1.58	y	21:53	-	0.95
187	Di-IS	13C-PCB-11	100.00	2.58e+08	1.57	y	25:16	-	0.95
188	Tri-╗	13C-PCB-19	100.00	1.47e+08	1.12	y	24:15	-	0.54
189	Tri-╗	13C-PCB-32	100.00	2.16e+08	1.11	y	27:10	-	0.80
190	Tri-╗	13C-PCB-28	100.00	1.67e+08	1.03	y	29:08	-	1.00
191	Tri-╗	13C-PCB-37	100.00	1.60e+08	1.04	y	33:00	-	0.96
192	Tetr╗	13C-PCB-54	100.00	1.91e+08	0.76	y	28:01	-	1.03
193	Tetr╗	13C-PCB-52	100.00	1.30e+08	0.78	y	31:32	-	0.70
194	Tetr╗	13C-PCB-47	100.00	1.36e+08	0.78	y	32:03	-	0.73
195	Tetr╗	13C-PCB-70	100.00	1.78e+08	0.78	y	35:33	-	0.96
196	Tetr╗	13C-PCB-80	100.00	1.89e+08	0.79	y	35:59	-	1.02
197	Tetr╗	13C-PCB-81	100.00	1.86e+08	0.78	y	39:05	-	1.00
198	Tetr╗	13C-PCB-77	100.00	1.77e+08	0.79	y	39:41	-	0.95
199	Pent╗	13C-PCB-104	100.00	1.51e+08	1.58	y	32:42	-	0.96
200	Pent╗	13C-PCB-95	100.00	1.06e+08	1.59	y	35:52	-	0.68
201	Pent╗	13C-PCB-101	100.00	1.20e+08	1.60	y	37:33	-	0.76
202	Pent╗	13C-PCB-97	100.00	1.03e+08	1.63	y	38:51	-	0.66
203	Pent╗	13C-PCB-123	100.00	1.38e+08	1.61	y	41:25	-	0.88
204	Pent╗	13C-PCB-118	100.00	1.44e+08	1.62	y	41:35	-	0.91
205	Pent╗	13C-PCB-114	100.00	1.49e+08	1.59	y	42:15	-	1.32
206	Pent╗	13C-PCB-105	100.00	1.45e+08	1.60	y	43:06	-	1.29
207	Pent╗	13C-PCB-127	100.00	1.52e+08	1.58	y	43:26	-	1.34
208	Pent╗	13C-PCB-126	100.00	1.39e+08	1.58	y	45:20	-	1.23
209	Hexa╗	13C-PCB-155	100.00	1.32e+08	1.26	y	37:05	-	0.84
210	Hexa╗	13C-PCB-153	100.00	1.49e+08	1.28	y	43:16	-	1.31
211	Hexa╗	13C-PCB-141	100.00	1.25e+08	1.29	y	44:00	-	1.10
212	Hexa	13C-PCB-138	100.00	1.29e+08	1.29	y	44:51	-	1.14
213	Hexa╗	13C-PCB-159	100.00	1.56e+08	1.29	y	46:07	-	1.38
214	Hexa╗	13C-PCB-167	100.00	1.61e+08	1.27	y	46:49	-	1.42
215	Hexa╗	13C-PCB-156	100.00	1.55e+08	1.30	y	48:06	-	1.37
216	Hexa╗	13C-PCB-157	100.00	1.64e+08	1.33	y	48:22	-	1.45
217	Hexa╗	13C-PCB-169	100.00	1.66e+08	1.26	y	50:32	-	1.46
218	Hept╗	13C-PCB-188	100.00	1.14e+08	0.45	y	42:54	-	1.01
219	Hept╗	13C-PCB-180	100.00	8.73e+07	0.47	y	49:23	-	0.77
220	Hept╗	13C-PCB-170	100.00	6.97e+07	0.45	y	50:54	-	0.62
221	Hept╗	13C-PCB-189	100.00	9.47e+07	0.46	y	52:25	-	0.84
222	Octa╗	13C-PCB-202	100.00	1.14e+08	0.93	y	48:19	-	1.00

223	Octa╗	13C-PCB-194	100.00	8.63e+07	0.90 y	53:56	-	0.73
224	Nona╗	13C-PCB-208	100.00	1.14e+08	0.77 y	53:13	-	0.97
225	Nona╗	13C-PCB-206	100.00	7.88e+07	0.76 y	55:34	-	0.67
226	Deca╗	13C-PCB-209	100.00	7.76e+07	1.20 y	56:55	-	0.66
227	DI-RS	13C-PCB-15	100.00	2.71e+08	1.57 y	25:59	-	1.00
228	Tri-╗	13C-PCB-31	100.00	1.67e+08	1.05 y	29:01	-	1.00
229	Tetr╗	13C-PCB-60	100.00	1.85e+08	0.79 y	36:48	-	1.00
230	Penta	13C-PCB-111	100.00	1.57e+08	1.61 y	39:17	-	1.00
231	Hexa╗	13C-PCB-128	100.00	1.13e+08	1.27 y	46:23	-	1.00
232	Octa╗	13C-PCB-205	100.00	1.18e+08	0.91 y	54:13	-	1.00

233	CRS		13C-PCB-79	100.00	1.81e+08	0.78 y	37:52	-	0.97
234	CRS		13C-PCB-178	100.00	7.34e+07	0.47 y	45:41	-	0.65
235	PS		13C-PCB-79	100.00	1.81e+08	0.78 y	37:52	-	0.97
236	PS		13C-PCB-178	100.00	7.34e+07	0.47 y	45:41	-	0.84

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150114E1-5 Instrument ID: VG-8

Initial Calibration Date: 1-14-15 ICal ID: PCBVG8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150114E1 S#6 Analysis Date: 14-JAN-15 Time: 18:00:03

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	2.99	2.66-3.60	y	46.1	37.5-62.5
PCB-2	2.99	2.66-3.60	y	48.8	37.5-62.5
PCB-3	2.98	2.66-3.60	y	48.7	37.5-62.5
PCB-4/10	1.64	1.33-1.79	y	93.0	75-125
PCB-7/9	1.63	1.33-1.79	y	94.5	75-125
PCB-6	1.65	1.33-1.79	y	47.6	37.5-62.5
PCB-5/8	1.64	1.33-1.79	y	92.5	75-125
PCB-14	1.64	1.33-1.79	y	48.1	37.5-62.5
PCB-11	1.68	1.33-1.79	y	47.1	37.5-62.5
PCB-12/13	1.65	1.33-1.79	y	94.6	75-125
PCB-15	1.65	1.33-1.79	y	47.1	37.5-62.5
PCB-19	1.06	0.88-1.20	y	47.6	37.5-62.5
PCB-30	1.05	0.88-1.20	y	47.9	37.5-62.5
PCB-18	1.06	0.88-1.20	y	47.8	37.5-62.5
PCB-17	1.05	0.88-1.20	y	48.2	37.5-62.5
PCB-24/27	1.06	0.88-1.20	y	95.1	75.0-125
PCB-16/32	1.05	0.88-1.20	y	93.3	75.0-125
PCB-34	1.01	0.88-1.20	y	45.7	37.5-62.5
PCB-23	1.06	0.88-1.20	y	47.9	37.5-62.5
PCB-29	1.01	0.88-1.20	y	43.7	37.5-62.5
PCB-26	1.00	0.88-1.20	y	44.9	37.5-62.5
PCB-25	1.01	0.88-1.20	y	45.8	37.5-62.5
PCB-31	1.03	0.88-1.20	y	45.4	37.5-62.5
PCB-28	1.04	0.88-1.20	y	43.3	37.5-62.5
PCB-20/21/33	1.02	0.88-1.20	y	136.2	112.5-225
PCB-22	1.03	0.88-1.20	y	46.7	37.5-62.5
PCB-36	1.05	0.88-1.20	y	53.8	37.5-62.5
PCB-39	1.05	0.88-1.20	y	50.8	37.5-62.5
PCB-38	1.03	0.88-1.20	y	52.5	37.5-62.5
PCB-35	1.03	0.88-1.20	y	50.7	37.5-62.5
PCB-37	1.08	0.88-1.20	y	47.6	37.5-62.5
PCB-54	0.74	0.65-0.89	y	46.6	37.5-62.5
PCB-50	0.72	0.65-0.89	y	46.9	37.5-62.5
PCB-53	0.75	0.65-0.89	y	48.1	37.5-62.5
PCB-51	0.72	0.65-0.89	y	47.8	37.5-62.5
PCB-45	0.73	0.65-0.89	y	48.7	37.5-62.5
PCB-46	0.73	0.65-0.89	y	45.8	37.5-62.5

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-52/69	0.74	0.65-0.89	y	93.1	75.0-125
PCB-73	0.75	0.65-0.89	y	50.2	37.5-62.5
PCB-43/49	0.73	0.65-0.89	y	93.4	75.0-125
PCB-47	0.74	0.65-0.89	y	45.6	37.5-62.5
PCB-48/75	0.73	0.65-0.89	y	90.7	75.0-125
PCB-65	0.73	0.65-0.89	y	42.9	37.5-62.5
PCB-62	0.74	0.65-0.89	y	47.2	37.5-62.5
PCB-44	0.74	0.65-0.89	y	46.2	37.5-62.5
PCB-42/59	0.74	0.65-0.89	y	85.0	75.0-125
PCB-41/64/71/72	0.73	0.65-0.89	y	170.4	150-250
PCB-68	0.73	0.65-0.89	y	40.2	37.5-62.5
PCB-40	0.73	0.65-0.89	y	40.8	37.5-62.5
PCB-57	0.74	0.65-0.89	y	46.0	37.5-62.5
PCB-67	0.73	0.65-0.89	y	45.9	37.5-62.5
PCB-58	0.76	0.65-0.89	y	49.2	37.5-62.5
PCB-63	0.71	0.65-0.89	y	47.3	37.5-62.5
PCB-74	0.74	0.65-0.89	y	44.5	37.5-62.5
PCB-61/70	0.73	0.65-0.89	y	92.8	75.0-125
PCB-76/66	0.74	0.65-0.89	y	90.0	75.0-125
PCB-80	0.74	0.65-0.89	y	45.2	37.5-62.5
PCB-55	0.74	0.65-0.89	y	45.9	37.5-62.5
PCB-56/60	0.73	0.65-0.89	y	88.4	75.0-125
PCB-79	0.73	0.65-0.89	y	44.5	37.5-62.5
PCB-78	0.74	0.65-0.89	y	43.6	37.5-62.5
PCB-81	0.75	0.65-0.89	y	45.5	37.5-62.5
PCB-77	0.76	0.65-0.89	y	45.7	37.5-62.5
PCB-104	1.59	1.32-1.78	y	45.9	37.5-62.5
PCB-96	1.56	1.32-1.78	y	43.9	37.5-62.5
PCB-103	1.54	1.32-1.78	y	44.4	37.5-62.5
PCB-100	1.57	1.32-1.78	y	45.3	37.5-62.5
PCB-94	1.56	1.32-1.78	y	46.8	37.5-62.5
PCB-95/98/102	1.52	1.32-1.78	y	134.8	112.5-225
PCB-93	1.68	1.32-1.78	y	53.0	37.5-62.5
PCB-88/91	1.56	1.32-1.78	y	99.5	75.0-125
PCB-121	1.57	1.32-1.78	y	44.4	37.5-62.5

Analyst: DMS

Date: 1/20/15

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150114E1-5 Instrument ID: VG-8

Initial Calibration Date: 1-14-15 ICal ID: pcbvg8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150114E1 S#6 Analysis Date: 14-JAN-15 Time: 18:00:03

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-84/92	1.54	1.32-1.78	y	97.1	75.0-125
PCB-89	1.53	1.32-1.78	y	47.5	37.5-62.5
PCB-90/101	1.56	1.32-1.78	y	93.5	75.0-125
PCB-113	1.55	1.32-1.78	y	51.7	37.5-62.5
PCB-99	1.60	1.32-1.78	y	41.4	37.5-62.5
PCB-119	1.56	1.32-1.78	y	47.0	37.5-62.5
PCB-108/112	1.56	1.32-1.78	y	94.2	75.0-125
PCB-83	1.57	1.32-1.78	y	47.6	37.5-62.5
PCB-97	1.55	1.32-1.78	y	46.2	37.5-62.5
PCB-86	1.46	1.32-1.78	y	48.0	37.5-62.5
PCB-87/117/125	1.59	1.32-1.78	y	142.8	112.5-225
PCB-111/115	1.56	1.32-1.78	y	95.3	75.0-125
PCB-85/116	1.60	1.32-1.78	y	95.6	75.0-125
PCB-120	1.53	1.32-1.78	y	46.1	37.5-62.5
PCB-110	1.56	1.32-1.78	y	47.5	37.5-62.5
PCB-82	1.56	1.32-1.78	y	48.9	37.5-62.5
PCB-124	1.57	1.32-1.78	y	49.4	37.5-62.5
PCB-107/109	1.58	1.32-1.78	y	90.6	75.0-125
PCB-123	1.55	1.32-1.78	y	48.4	37.5-62.5
PCB-106/118	1.54	1.32-1.78	y	92.8	75.0-125
PCB-114	1.62	1.32-1.78	y	46.9	37.5-62.5
PCB-122	1.63	1.32-1.78	y	45.9	37.5-62.5
PCB-105	1.65	1.32-1.78	y	47.1	37.5-62.5
PCB-127	1.69	1.32-1.78	y	47.5	37.5-62.5
PCB-126	1.64	1.32-1.78	y	49.3	37.5-62.5
PCB-155	1.23	1.05-1.43	y	46.8	37.5-62.5
PCB-150	1.24	1.05-1.43	y	45.2	37.5-62.5
PCB-152	1.25	1.05-1.43	y	44.2	37.5-62.5
PCB-145	1.24	1.05-1.43	y	45.5	37.5-62.5
PCB-136	1.23	1.05-1.43	y	47.5	37.5-62.5
PCB-148	1.24	1.05-1.43	y	43.6	37.5-62.5
PCB-154	1.23	1.05-1.43	y	45.1	37.5-62.5
PCB-151	1.25	1.05-1.43	y	46.1	37.5-62.5
PCB-135	1.23	1.05-1.43	y	45.1	37.5-62.5
PCB-144	1.33	1.05-1.43	y	45.7	37.5-62.5
PCB-147	1.15	1.05-1.43	y	43.6	37.5-62.5
PCB-139/149	1.23	1.05-1.43	y	88.3	75.0-125

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-140	1.24	1.05-1.43	y	44.8	37.5-62.5
PCB-134/143	1.22	1.05-1.43	y	91.8	75.0-125
PCB-133/142	1.24	1.05-1.43	y	93.1	75.0-125
PCB-131	1.16	1.05-1.43	y	46.7	37.5-62.5
PCB-146/165	1.22	1.05-1.43	y	93.5	75.0-125
PCB-132/161	1.22	1.05-1.43	y	92.8	75.0-125
PCB-153	1.21	1.05-1.43	y	43.2	37.5-62.5
PCB-168	1.22	1.05-1.43	y	46.7	37.5-62.5
PCB-141	1.22	1.05-1.43	y	45.4	37.5-62.5
PCB-137	1.18	1.05-1.43	y	45.4	37.5-62.5
PCB-130	1.21	1.05-1.43	y	48.2	37.5-62.5
PCB-138/163/164	1.21	1.05-1.43	y	137.7	112.5-225
PCB-158/160	1.22	1.05-1.43	y	93.2	75.0-125
PCB-129	1.20	1.05-1.43	y	44.6	37.5-62.5
PCB-166	1.21	1.05-1.43	y	46.6	37.5-62.5
PCB-159	1.22	1.05-1.43	y	47.9	37.5-62.5
PCB-128/162	1.20	1.05-1.43	y	94.0	75.0-125
PCB-167	1.17	1.05-1.43	y	46.3	37.5-62.5
PCB-156	1.19	1.05-1.43	y	46.7	37.5-62.5
PCB-157	1.21	1.05-1.43	y	46.2	37.5-62.5
PCB-169	1.20	1.05-1.43	y	47.2	37.5-62.5
PCB-188	1.06	0.89-1.21	y	47.0	37.5-62.5
PCB-184	1.05	0.89-1.21	y	47.6	37.5-62.5
PCB-179	1.03	0.89-1.21	y	47.9	37.5-62.5
PCB-176	1.04	0.89-1.21	y	48.0	37.5-62.5
PCB-186	1.05	0.89-1.21	y	46.9	37.5-62.5
PCB-178	1.06	0.89-1.21	y	46.4	37.5-62.5
PCB-175	1.06	0.89-1.21	y	48.1	37.5-62.5
PCB-182/187	1.05	0.89-1.21	y	93.3	75.0-125
PCB-183	1.04	0.89-1.21	y	47.4	37.5-62.5
PCB-185	1.05	0.89-1.21	y	47.6	37.5-62.5
PCB-174	1.05	0.89-1.21	y	48.5	37.5-62.5
PCB-181	1.08	0.89-1.21	y	48.3	37.5-62.5
PCB-177	1.04	0.89-1.21	y	45.9	37.5-62.5
PCB-171	1.05	0.89-1.21	y	46.1	37.5-62.5
PCB-173	1.04	0.89-1.21	y	49.0	37.5-62.5
PCB-172	1.04	0.89-1.21	y	46.8	37.5-62.5

Analyst: DMS

Date: 1/16/15

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150114E1-5 Instrument ID: VG-8

Initial Calibration Date: 1-14-15 ICal ID: pcbvg8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150114E1 S#6 Analysis Date: 14-JAN-15 Time: 18:00:03

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-192	1.05	0.89-1.21	y	46.3	37.5-62.5
PCB-180	1.03	0.89-1.21	y	45.4	37.5-62.5
PCB-193	1.04	0.89-1.21	y	46.5	37.5-62.5
PCB-191	1.04	0.89-1.21	y	47.3	37.5-62.5
PCB-170	1.02	0.89-1.21	y	46.7	37.5-62.5
PCB-190	1.07	0.89-1.21	y	48.3	37.5-62.5
PCB-189	1.05	0.89-1.21	y	47.3	37.5-62.5
PCB-202	0.91	0.76-1.02	y	47.0	37.5-62.5
PCB-201	0.87	0.76-1.02	y	46.2	37.5-62.5
PCB-204	0.89	0.76-1.02	y	44.7	37.5-62.5
PCB-197	0.91	0.76-1.02	y	46.5	37.5-62.5
PCB-200	0.87	0.76-1.02	y	46.9	37.5-62.5
PCB-198	0.89	0.76-1.02	y	48.5	37.5-62.5
PCB-199	0.90	0.76-1.02	y	45.7	37.5-62.5
PCB-196/203	0.89	0.76-1.02	y	90.5	75.0-125
PCB-195	0.91	0.76-1.02	y	46.9	37.5-62.5
PCB-194	0.92	0.76-1.02	y	45.7	37.5-62.5
PCB-205	0.92	0.76-1.02	y	48.0	37.5-62.5
PCB-208	1.31	1.14-1.54	y	46.2	37.5-62.5
PCB-207	1.33	1.14-1.54	y	46.8	37.5-62.5
PCB-206	1.31	1.14-1.54	y	46.5	37.5-62.5
PCB-209	1.16	0.99-1.33	y	44.9	37.5-62.5

Analyst: DMS

Date: 1/20/15

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150114E1-5 Instrument ID: VG-8

Initial Calibration Date: 1-14-15 ICal ID: pcbvg8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150114E1 S#6 Analysis Date: 14-JAN-15 Time: 18:00:03

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-1	3.59	2.66-3.60	y	107.5	50.0-145
13C-PCB-3	3.55	2.66-3.60	y	100.5	50.0-145
13C-PCB-4	1.59	1.33-1.79	y	104.5	50.0-145
13C-PCB-9	1.58	1.33-1.79	y	102.4	50.0-145
13C-PCB-11	1.57	1.33-1.79	y	100.8	50.0-145
13C-PCB-19	1.10	0.88-1.20	y	99.4	50.0-145
13C-PCB-32	1.10	0.88-1.20	y	99.7	50.0-145
13C-PCB-28	1.03	0.88-1.20	y	113.1	50.0-145
13C-PCB-37	1.04	0.88-1.20	y	103.7	50.0-145
13C-PCB-54	0.78	0.65-0.89	y	108.1	50.0-145
13C-PCB-52	0.76	0.65-0.89	y	107.2	50.0-145
13C-PCB-47	0.77	0.65-0.89	y	108.7	50.0-145
13C-PCB-70	0.76	0.65-0.89	y	100.0	50.0-145
13C-PCB-80	0.78	0.65-0.89	y	101.0	50.0-145
13C-PCB-81	0.77	0.65-0.89	y	101.8	50.0-145
13C-PCB-77	0.79	0.65-0.89	y	101.1	50.0-145
13C-PCB-104	1.61	1.32-1.78	y	109.1	50.0-145
13C-PCB-95	1.61	1.32-1.78	y	102.4	50.0-145
13C-PCB-101	1.62	1.32-1.78	y	98.6	50.0-145
13C-PCB-97	1.65	1.32-1.78	y	100.4	50.0-145
13C-PCB-123	1.61	1.32-1.78	y	99.1	50.0-145
13C-PCB-118	1.60	1.32-1.78	y	99.9	50.0-145
13C-PCB-114	1.57	1.32-1.78	y	99.9	50.0-145
13C-PCB-105	1.58	1.32-1.78	y	99.1	50.0-145
13C-PCB-127	1.55	1.32-1.78	y	97.3	50.0-145
13C-PCB-126	1.61	1.32-1.78	y	93.9	50.0-145
13C-PCB-155	1.23	1.05-1.43	y	106.9	50.0-145
13C-PCB-153	1.29	1.05-1.43	y	101.6	50.0-145
13C-PCB-141	1.29	1.05-1.43	y	101.3	50.0-145
13C-PCB-138	1.26	1.05-1.43	y	99.4	50.0-145
13C-PCB-159	1.31	1.05-1.43	y	98.9	50.0-145
13C-PCB-167	1.27	1.05-1.43	y	101.9	50.0-145
13C-PCB-156	1.27	1.05-1.43	y	98.5	50.0-145
13C-PCB-157	1.32	1.05-1.43	y	99.7	50.0-145

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-169	1.25	1.05-1.43	y	99.0	50 - 145
13C-PCB-188	0.46	0.38-0.52	y	99.7	50 - 145
13C-PCB-180	0.46	0.38-0.52	y	100.0	50 - 145
13C-PCB-170	0.47	0.38-0.52	y	98.2	50 - 145
13C-PCB-189	0.45	0.38-0.52	y	97.3	50 - 145
13C-PCB-202	0.89	0.76-1.02	y	101.0	50 - 145
13C-PCB-194	0.90	0.76-1.02	y	100.0	50 - 145
13C-PCB-208	0.77	0.65-0.89	y	102.9	50 - 145
13C-PCB-206	0.77	0.65-0.89	y	99.6	50 - 145
13C-PCB-209	1.18	0.99-1.33	y	105.5	50 - 145

CRS vs. RS

13C-PCB-79	0.77	0.65-0.89	y	97.0	75 - 125
13C-PCB-178	0.45	0.38-0.52	y	98.8	75 - 125

Analyst: DMS

Date: 1/20/15

Client ID: PCB CS3 14L1801 Filename: 150114E1 S:6 Acq:14-JAN-15 18:00:03 ConCal: NA

Lab ID: ST150114E1-5 GC Column ID: ZB-1 ICal: pcbvg8-1-14-15 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-1	8.07e+07	2.99	y	1.33	16:11	1.001	0.997	1.007	52.0249
	PCB-2	8.02e+07	2.99	y	1.30	18:33	0.988	0.983	0.993	54.7140
	PCB-3	8.03e+07	2.98	y	1.30	18:47	1.001	0.996	1.006	54.6072
	PCB-4/10	1.30e+08	1.64	y	1.67	20:10	1.002	0.997	1.007	93.0306
	PCB-7/9	1.56e+08	1.63	y	1.25	21:57	0.868	0.864	0.872	94.4847
	PCB-6	7.76e+07	1.65	y	1.24	22:35	0.893	0.888	0.897	47.5758
	PCB-5/8	1.55e+08	1.64	y	1.27	23:00	0.910	0.905	0.915	92.4994
	PCB-14	9.12e+07	1.64	y	1.47	24:06	0.953	0.948	0.958	48.1061
	PCB-11	7.80e+07	1.68	y	1.28	25:17	1.000	0.995	1.005	47.0854
	PCB-12/13	1.55e+08	1.65	y	1.27	25:41	1.016	1.011	1.021	94.5607
	PCB-15	8.75e+07	1.65	y	1.44	26:00	1.028	1.023	1.031	47.1177
	PCB-19	4.22e+07	1.06	y	1.18	24:17	1.001	0.996	1.006	47.5975
	PCB-30	6.72e+07	1.05	y	1.87	25:11	1.038	1.033	1.043	47.8879
	PCB-18	4.67e+07	1.06	y	0.89	25:55	0.954	0.949	0.959	47.7748
	PCB-17	5.08e+07	1.05	y	0.96	26:06	0.961	0.956	0.966	48.1501
	PCB-24/27	1.36e+08	1.06	y	1.30	26:40	0.982	0.977	0.987	95.1310
-	PCB-16/32	1.08e+08	1.05	y	1.05	27:11	1.001	0.996	1.006	93.2649
-	PCB-34	5.36e+07	1.01	y	1.30	27:58	0.960	0.955	0.965	45.6626
	PCB-23	5.23e+07	1.06	y	1.21	28:04	0.963	0.958	0.968	47.8931
	PCB-29	4.77e+07	1.01	y	1.21	28:19	0.972	0.967	0.977	43.6736
	PCB-26	5.01e+07	1.00	y	1.24	28:31	0.979	0.974	0.984	44.8563
	PCB-25	4.54e+07	1.01	y	1.10	28:41	0.985	0.980	0.990	45.8240
	PCB-31	5.13e+07	1.03	y	1.25	29:03	0.997	0.992	1.002	45.3770
	PCB-28	4.84e+07	1.04	y	1.24	29:09	1.001	0.996	1.006	43.3229
	PCB-20/21/33	1.42e+08	1.02	y	1.16	29:45	1.021	1.016	1.026	136.238
	PCB-22	4.91e+07	1.03	y	1.16	30:12	1.037	1.032	1.042	46.7230
	PCB-36	5.22e+07	1.05	y	1.30	30:49	0.934	0.929	0.939	53.8213
	PCB-39	4.78e+07	1.05	y	1.26	31:17	0.948	0.943	0.953	50.8404
	PCB-38	4.87e+07	1.03	y	1.24	32:04	0.972	0.967	0.977	52.5442
	PCB-35	4.75e+07	1.03	y	1.26	32:34	0.987	0.982	0.992	50.7102
	PCB-37	4.79e+07	1.08	y	1.35	33:01	1.001	0.996	1.006	47.5517
	PCB-54	4.77e+07	0.74	y	1.02	28:02	1.001	0.996	1.006	46.5543
	PCB-50	3.65e+07	0.72	y	0.78	29:12	1.042	1.037	1.047	46.9035
	PCB-53	3.64e+07	0.75	y	1.14	29:51	0.946	0.941	0.951	48.0525
	PCB-51	3.70e+07	0.72	y	1.16	30:11	0.957	0.952	0.962	47.8251
	PCB-45	3.37e+07	0.73	y	1.04	30:37	0.970	0.965	0.975	48.6868
	PCB-46	2.89e+07	0.73	y	0.95	31:06	0.986	0.981	0.991	45.7766

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
PCB-52/69	8.00e+07	0.74	y	1.29	31:35	1.001	0.996	1.006	93.0967
PCB-73	4.72e+07	0.75	y	1.41	31:42	1.005	0.999	1.009	50.2177
PCB-43/49	7.08e+07	0.73	y	1.14	31:52	1.010	1.005	1.015	93.3696
PCB-47	3.98e+07	0.74	y	1.20	32:04	1.001	0.996	1.006	45.5825
PCB-48/75	8.76e+07	0.73	y	1.33	32:11	1.004	0.999	1.009	90.7089
PCB-65	4.12e+07	0.73	y	1.32	32:26	1.012	1.007	1.017	42.9478
PCB-62	4.67e+07	0.74	y	1.36	32:33	1.016	1.011	1.021	47.2058
PCB-44	2.93e+07	0.74	y	0.87	32:51	1.025	1.020	1.030	46.1675
PCB-42/59	7.65e+07	0.74	y	1.24	33:05	1.032	1.027	1.037	85.0074
PCB-41/64/71/72	1.66e+08	0.73	y	1.34	33:40	1.050	1.045	1.055	170.423
PCB-68	4.72e+07	0.73	y	1.61	33:56	1.059	1.053	1.063	40.2479
PCB-40	2.55e+07	0.73	y	0.86	34:09	1.066	1.061	1.071	40.7920
PCB-57	4.47e+07	0.74	y	1.12	34:30	0.970	0.965	0.975	46.0101
PCB-67	4.34e+07	0.73	y	1.09	34:49	0.979	0.974	0.984	45.9086
PCB-58	4.85e+07	0.76	y	1.14	34:55	0.982	0.977	0.987	49.2155
PCB-63	4.77e+07	0.71	y	1.16	35:05	0.986	0.981	0.991	47.3221
PCB-74	4.68e+07	0.74	y	1.21	35:22	0.994	0.989	0.999	44.4585
PCB-61/70	9.06e+07	0.73	y	1.13	35:33	1.000	0.995	1.005	92.8240
PCB-76/66	9.21e+07	0.74	y	1.18	35:46	1.006	1.000	1.010	90.0496
PCB-80	5.39e+07	0.74	y	1.32	36:00	1.000	0.995	1.005	45.2354
PCB-55	5.08e+07	0.74	y	1.23	36:19	1.009	1.004	1.014	45.9074
PCB-56/60	8.80e+07	0.73	y	1.11	36:49	1.023	1.018	1.028	88.4456
PCB-79	4.65e+07	0.73	y	1.16	37:53	1.053	1.048	1.058	44.5110
PCB-78	4.56e+07	0.74	y	1.18	38:34	0.987	0.982	0.992	43.6493
PCB-81	5.20e+07	0.75	y	1.29	39:06	1.000	0.995	1.005	45.4820
PCB-77	5.01e+07	0.76	y	1.29	39:42	1.001	0.995	1.005	45.6501
PCB-104	4.01e+07	1.59	y	1.26	32:44	1.001	0.996	1.006	45.8646
PCB-96	3.32e+07	1.56	y	1.09	33:59	1.039	1.034	1.044	43.9315
PCB-103	2.97e+07	1.54	y	0.97	34:31	1.056	1.051	1.061	44.3834
PCB-100	3.02e+07	1.57	y	0.96	34:52	1.066	1.061	1.071	45.2813
PCB-94	2.48e+07	1.56	y	1.13	35:20	0.985	0.980	0.990	46.7663
PCB-95/98/102	8.16e+07	1.52	y	1.29	35:50	0.999	0.994	1.004	134.832
PCB-93	2.65e+07	1.68	y	1.06	35:58	1.003	0.998	1.008	53.0450
PCB-88/91	5.25e+07	1.56	y	1.12	36:15	1.011	1.006	1.016	99.4803
PCB-121	3.67e+07	1.57	y	1.76	36:22	1.014	1.009	1.019	44.4163
PCB-84/92	5.15e+07	1.54	y	1.07	37:11	0.990	0.985	0.995	97.0520
PCB-89	2.34e+07	1.53	y	1.00	37:22	0.995	0.990	1.000	47.4938

RL: MONO, TRI - DECA: ~~_____~~

RL: DI : ~~_____~~

Integrations by Analyst: DMS

Date: 1/16/15

Reviewed by Analyst: _____

Date: _____

Client ID: PCB CS3 14L1801 Filename: 150114E1 S:6 Acq:14-JAN-15 18:00:03 ConCal: NA

Lab ID: ST150114E1-5 GC Column ID: ZB-1 ICal: pcbvg8-1-14-15 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-90/101	5.59e+07	1.56	y	1.21	37:33	1.000	0.995	1.005	93.4510
	PCB-113	3.44e+07	1.55	y	1.34	37:48	1.007	1.002	1.012	51.7174
	PCB-99	2.56e+07	1.60	y	1.25	37:54	1.009	1.004	1.014	41.4323
	PCB-119	3.83e+07	1.56	y	1.88	38:21	0.987	0.982	0.992	46.9690
	PCB-108/112	5.74e+07	1.56	y	1.41	38:30	0.991	0.986	0.996	94.2376
	PCB-83	3.43e+07	1.57	y	1.66	38:40	0.995	0.990	1.000	47.6313
	PCB-97	2.60e+07	1.55	y	1.30	38:52	1.000	0.995	1.005	46.2488
	PCB-86	2.15e+07	1.46	y	1.03	39:00	1.004	0.999	1.009	47.9826
	B-87/117/125	9.85e+07	1.59	y	1.59	39:08	1.007	1.002	1.012	142.777
	PCB-111/115	7.67e+07	1.56	y	1.86	39:17	1.011	1.006	1.016	95.2753
	PCB-85/116	5.77e+07	1.60	y	1.39	39:25	1.015	1.010	1.020	95.6148
	PCB-120	3.97e+07	1.53	y	1.99	39:39	1.021	1.016	1.026	46.1066
	PCB-110	3.50e+07	1.56	y	1.70	39:47	1.024	1.019	1.029	47.4714
	PCB-82	2.08e+07	1.56	y	0.74	40:25	0.976	0.971	0.981	48.9430
	PCB-124	3.69e+07	1.57	y	1.30	41:06	0.993	0.988	0.998	49.3629
	PCB-107/109	6.93e+07	1.58	y	1.34	41:15	0.996	0.991	1.001	90.5539
	PCB-123	3.47e+07	1.55	y	1.25	41:25	1.000	0.995	1.005	48.3609
-	PCB-106/118	7.35e+07	1.54	y	1.29	41:38	1.001	0.996	1.006	92.8153
-	PCB-114	4.27e+07	1.62	y	1.45	42:15	1.000	0.995	1.005	46.8884
	PCB-122	3.51e+07	1.63	y	1.22	42:23	1.004	0.999	1.009	45.9413
	PCB-105	4.36e+07	1.65	y	1.56	43:07	1.000	0.995	1.005	47.0955
	PCB-127	3.79e+07	1.69	y	1.31	43:27	1.000	0.995	1.005	47.5187
	PCB-126	3.67e+07	1.64	y	1.41	45:20	1.000	0.995	1.005	49.2617
	PCB-155	3.43e+07	1.23	y	1.20	37:07	1.001	0.966	1.006	46.8420
	PCB-150	3.11e+07	1.24	y	1.13	38:22	1.035	1.030	1.040	45.1927
	PCB-152	3.16e+07	1.25	y	1.17	38:51	1.048	1.043	1.053	44.2320
	PCB-145	3.04e+07	1.24	y	1.09	39:18	1.060	1.055	1.065	45.5249
	PCB-136	3.31e+07	1.23	y	1.14	39:37	1.068	1.063	1.073	47.5060
	PCB-148	2.18e+07	1.24	y	0.82	39:43	1.071	1.066	1.076	43.6154
	PCB-154	2.45e+07	1.23	y	0.89	40:12	1.084	1.079	1.089	45.0618
	PCB-151	2.30e+07	1.25	y	0.82	40:51	1.102	1.097	1.107	46.1089
	PCB-135	2.19e+07	1.23	y	0.80	41:04	1.107	1.101	1.113	45.0763
	PCB-144	2.39e+07	1.33	y	0.86	41:10	1.110	1.105	1.116	45.7102
	PCB-147	2.07e+07	1.15	y	0.78	41:18	1.114	1.108	1.120	43.6051
	PCB-139/149	4.69e+07	1.23	y	0.87	41:34	1.121	1.115	1.127	88.2749
-	PCB-140	2.12e+07	1.24	y	0.78	41:45	1.126	1.120	1.132	44.7555
-	PCB-134/143	5.52e+07	1.22	y	0.93	42:11	0.975	0.970	0.980	91.8432

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-133/142	5.46e+07	1.24	y	0.91	42:29	0.982	0.977	0.987	93.0668
	PCB-131	2.55e+07	1.16	y	0.85	42:38	0.986	0.981	0.991	46.7153
	PCB-146/165	6.52e+07	1.22	y	1.08	42:51	0.991	0.986	0.996	93.4865
	PCB-132/161	6.70e+07	1.22	y	1.12	43:06	0.997	0.992	1.002	92.8456
	PCB-153	3.34e+07	1.21	y	1.20	43:17	1.001	0.996	1.006	43.2433
	PCB-168	4.08e+07	1.22	y	1.36	43:29	1.005	1.000	1.010	46.6695
	PCB-141	2.90e+07	1.22	y	1.16	44:00	1.000	0.995	1.005	45.4172
	PCB-137	2.95e+07	1.18	y	1.18	44:24	1.009	1.004	1.014	45.3841
	PCB-130	2.45e+07	1.21	y	0.92	44:29	1.011	1.006	1.016	48.1957
	PCB-138/163/164	1.05e+08	1.21	y	1.38	44:52	1.001	0.996	1.006	137.688
	PCB-158/160	7.63e+07	1.22	y	1.48	45:06	1.006	1.001	1.011	93.2016
	PCB-129	2.45e+07	1.20	y	0.99	45:21	1.012	1.007	1.017	44.6385
	PCB-166	3.59e+07	1.21	y	1.14	45:48	0.993	0.988	0.998	46.5698
	PCB-159	3.96e+07	1.22	y	1.22	46:08	1.000	0.995	1.005	47.9497
	PCB-128/162	6.57e+07	1.20	y	1.03	46:25	1.007	1.002	1.012	94.0179
	PCB-167	3.85e+07	1.17	y	1.18	46:49	1.000	0.995	1.005	46.3110
	PCB-156	3.93e+07	1.19	y	1.27	48:07	1.000	0.995	1.005	46.6553
	PCB-157	3.97e+07	1.21	y	1.22	48:23	1.000	0.995	1.005	46.2329
	PCB-169	3.46e+07	1.20	y	1.07	50:32	1.000	0.995	1.005	47.2196
	PCB-188	3.60e+07	1.06	y	1.52	42:55	1.001	0.996	1.006	46.9710
	PCB-184	3.21e+07	1.05	y	1.34	43:21	1.011	1.006	1.016	47.6292
	PCB-179	3.36e+07	1.03	y	1.39	44:08	1.029	1.024	1.034	47.9352
	PCB-176	3.52e+07	1.04	y	1.45	44:36	1.040	1.035	1.045	48.0468
	PCB-186	3.45e+07	1.05	y	1.46	45:12	1.054	1.049	1.059	46.9300
	PCB-178	2.51e+07	1.06	y	1.07	45:42	1.066	1.061	1.071	46.3910
	PCB-175	2.54e+07	1.06	y	1.05	46:03	1.074	1.069	1.079	48.0617
	PCB-182/187	5.34e+07	1.05	y	1.14	46:13	1.078	1.073	1.083	93.2941
	PCB-183	2.93e+07	1.04	y	1.22	46:32	1.085	1.080	1.090	47.4465
	PCB-185	2.52e+07	1.05	y	1.40	47:11	0.955	0.950	0.960	47.6023
	PCB-174	2.35e+07	1.05	y	1.29	47:33	0.963	0.958	0.968	48.4673
	PCB-181	2.45e+07	1.08	y	1.35	47:40	0.965	0.960	0.970	48.2534
	PCB-177	2.19e+07	1.04	y	1.27	47:49	0.968	0.963	0.973	45.9044
	PCB-171	2.53e+07	1.05	y	1.46	48:07	0.974	0.969	0.979	46.0900
	PCB-173	2.04e+07	1.04	y	1.10	48:33	0.983	0.978	0.988	48.9835
	PCB-172	2.39e+07	1.04	y	1.35	49:00	0.992	0.987	0.997	46.7746
	PCB-192	3.03e+07	1.05	y	1.74	49:12	0.996	0.991	1.001	46.2733
	PCB-180	2.48e+07	1.03	y	1.45	49:24	1.000	0.995	1.005	45.3976

RL: MONO, TRI - DECA: ———

Integrations by Analyst: DMS

Date: 1/16/15

Client ID: PCB CS3 14L1801 Filename: 150114E1 S:6 Acq:14-JAN-15 18:00:03 ConCal: NA

Lab ID: ST150114E1-5 GC Column ID: ZB-1 ICal: pcbvg8-1-14-15 wt/vol: 1.0000 EndCAL: NA

	Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc
	PCB-193	3.25e+07	1.04	y	1.85	49:36	1.004	0.999	1.009	46.5289
	PCB-191	3.32e+07	1.04	y	1.86	49:52	1.010	1.005	1.015	47.3156
	PCB-170	2.30e+07	1.02	y	1.67	50:55	1.000	0.995	1.005	46.7443
	PCB-190	3.20e+07	1.07	y	2.25	51:06	1.004	0.999	1.009	48.2533
	PCB-189	3.08e+07	1.05	y	1.67	52:26	1.000	0.995	1.005	47.3113
	PCB-202	2.38e+07	0.91	y	1.02	48:19	1.000	0.995	1.005	46.9721
	PCB-201	2.52e+07	0.87	y	1.10	48:48	1.010	1.005	1.015	46.1751
	PCB-204	2.39e+07	0.89	y	1.07	48:58	1.014	1.009	1.019	44.7059
	PCB-197	2.70e+07	0.91	y	1.17	49:16	1.020	1.015	1.025	46.4964
	PCB-200	2.41e+07	0.87	y	1.03	50:10	1.039	1.034	1.044	46.8569
	PCB-198	1.82e+07	0.89	y	0.75	51:31	1.067	1.062	1.072	48.5071
	PCB-199	1.68e+07	0.90	y	0.74	51:38	1.069	1.064	1.074	45.6525
-	PCB-196/203	3.74e+07	0.89	y	0.83	51:54	1.075	1.070	1.080	90.5292
-	PCB-195	1.90e+07	0.91	y	1.14	53:04	0.984	0.979	0.989	46.9126
	PCB-194	2.09e+07	0.92	y	1.29	53:56	1.000	0.995	1.005	45.7200
	PCB-205	2.74e+07	0.92	y	1.61	54:13	1.005	1.001	1.010	48.0015
	PCB-208	2.49e+07	1.31	y	1.01	53:13	1.000	0.995	1.005	46.1981
	PCB-207	2.55e+07	1.33	y	1.03	53:32	1.006	1.001	1.011	46.8056
	PCB-206	1.42e+07	1.31	y	0.88	55:34	1.000	0.995	1.005	46.5433
	PCB-209	2.15e+07	1.16	y	1.35	56:55	1.000	0.995	1.005	44.8746

Name	Resp	RA		RT	RRF	Conc	
Total Mono-PCB	2.41e+08	2.99	y	16:11	1.31	143.595	
Total Di-PCB	9.32e+08	1.64	y	20:10	1.32	565.796	
Total Tri-PCB	4.51e+08	1.06	y	24:17	1.20	379.806	
Total Tri-PCB	8.18e+08	1.01	y	27:58	1.23	787.958	Sum:1167.76
Total Tetra-PCB	1.80e+09	0.74	y	28:02	1.17	1928.65	
Total Penta-PCB	1.27e+09	1.59	y	32:44	1.24	1932.56	
Total Penta-PCB	2.15e+08	1.62	y	42:15	1.39	259.871	Sum:2192.43
Total Hexa-PCB	3.64e+08	1.23	y	37:07	0.94	631.506	
Total Hexa-PCB	9.40e+08	1.22	y	42:11	1.13	1319.24	Sum:1950.75
Total Hepta-PCB	6.80e+08	1.06	y	42:55	1.37	1139.00	
Total Octa-PCB	1.96e+08	0.91	y	48:19	0.95	415.895	
Total Octa-PCB	6.97e+07	0.91	y	53:04	1.35	145.548	Sum:561.443
Total Nona-PCB	6.53e+07	1.31	y	53:13	0.99	140.996	
Total Deca-PCB	2.15e+07	1.16	y	56:55	1.35	44.8746	

Total PCB Conc:9715.75044600

RL: MONO, TRI - DECA: ~~~~

Integrations by Analyst: DMS

Date: 1/20/15

Client ID: PCB CS3 14L1801 Filename: 150114E1 S:6 Acq:14-JAN-15 18:00:03 ConCal: NA
Lab ID: ST150114E1-5 GC Column ID: ZB-1 ICal: pcbvg8-1-14-15 wt/vol:1.0000 EndCAL: NA

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.31e+08	3.59	y	0.91	16:09	0.622	0.619	0.625	108	108
13C-PCB-3	1.27e+08	3.55	y	0.94	18:46	0.722	0.718	0.726	101	101
13C-PCB-4	8.37e+07	1.59	y	0.60	20:07	0.774	0.770	0.778	104	104
13C-PCB-9	1.32e+08	1.58	y	0.96	21:54	0.843	0.839	0.847	102	102
13C-PCB-11	1.29e+08	1.57	y	0.95	25:17	0.973	0.968	0.978	101	101
13C-PCB-19	7.48e+07	1.10	y	0.56	24:16	0.934	0.929	0.939	99.4	99.4
13C-PCB-28	9.04e+07	1.03	y	1.07	29:08	1.004	0.999	1.009	113	113
13C-PCB-32	1.10e+08	1.10	y	0.83	27:10	1.046	1.041	1.051	99.7	99.7
13C-PCB-37	7.45e+07	1.04	y	0.96	33:00	1.137	1.131	1.143	104	104
13C-PCB-47	7.29e+07	0.77	y	0.77	32:03	0.871	0.867	0.875	109	109
13C-PCB-52	6.66e+07	0.76	y	0.71	31:33	0.857	0.853	0.861	107	107
13C-PCB-54	1.00e+08	0.78	y	1.06	28:01	0.761	0.757	0.765	108	108
13C-PCB-70	8.67e+07	0.76	y	0.99	35:34	0.966	0.961	0.971	100	100
13C-PCB-77	8.51e+07	0.79	y	0.96	39:40	1.078	1.073	1.083	101	101
13C-PCB-80	9.01e+07	0.78	y	1.02	35:59	0.978	0.973	0.983	101	101
13C-PCB-81	8.87e+07	0.77	y	1.00	39:05	1.062	1.057	1.067	102	102
13C-PCB-95	4.69e+07	1.61	y	0.70	35:52	0.913	0.908	0.918	102	102
13C-PCB-97	4.33e+07	1.65	y	0.66	38:51	0.989	0.984	0.994	100	100
13C-PCB-101	4.96e+07	1.62	y	0.77	37:33	0.956	0.951	0.961	98.6	98.6
13C-PCB-104	6.91e+07	1.61	y	0.97	32:42	0.832	0.828	0.836	109	109
13C-PCB-105	5.94e+07	1.58	y	1.20	43:06	0.929	0.924	0.934	99.1	99.1
13C-PCB-114	6.26e+07	1.57	y	1.26	42:14	0.910	0.905	0.915	99.9	99.9
13C-PCB-118	6.14e+07	1.60	y	0.94	41:35	1.059	1.054	1.064	99.9	99.9
13C-PCB-123	5.73e+07	1.61	y	0.88	41:24	1.054	1.049	1.059	99.1	99.1
13C-PCB-126	5.27e+07	1.61	y	1.13	45:20	0.977	0.972	0.982	93.9	93.9
13C-PCB-127	6.10e+07	1.55	y	1.26	43:26	0.936	0.931	0.941	97.3	97.3
13C-PCB-138	5.55e+07	1.26	y	1.12	44:50	0.966	0.961	0.971	99.4	99.4
13C-PCB-141	5.52e+07	1.29	y	1.09	43:59	0.948	0.943	0.953	101	101
13C-PCB-153	6.45e+07	1.29	y	1.27	43.15	0.932	0.927	0.937	102	102
13C-PCB-155	6.10e+07	1.23	y	0.87	37:05	0.944	0.939	0.949	107	107
13C-PCB-156	6.63e+07	1.27	y	1.35	48:06	1.037	1.032	1.042	98.5	98.5
13C-PCB-157	7.04e+07	1.32	y	1.42	48:22	1.042	1.037	1.047	99.7	99.7
13C-PCB-159	6.75e+07	1.31	y	1.37	46:07	0.994	0.989	0.999	98.9	98.9
13C-PCB-167	7.02e+07	1.27	y	1.38	46:48	1.009	1.004	1.014	102	102
13C-PCB-169	6.82e+07	1.25	y	1.38	50:31	1.089	1.084	1.094	99.0	99.0
13C-PCB-170	2.95e+07	0.47	y	0.60	50:54	1.097	1.091	1.103	98.2	98.2
13C-PCB-180	3.77e+07	0.46	y	0.76	49:23	1.064	1.059	1.069	100.0	100.0
13C-PCB-188	5.04e+07	0.46	y	1.01	42:53	0.924	0.919	0.929	99.7	99.7
13C-PCB-189	3.89e+07	0.45	y	0.80	52:25	1.130	1.124	1.136	97.3	97.3
13C-PCB-194	3.54e+07	0.90	y	0.75	53:56	0.995	0.990	1.000	100	100
13C-PCB-202	4.98e+07	0.89	y	0.99	48:18	1.041	1.036	1.046	101	101
13C-PCB-206	3.47e+07	0.77	y	0.73	55:33	1.025	1.020	1.301	99.6	99.6
13C-PCB-208	5.30e+07	0.77	y	1.08	53:13	0.982	0.977	0.987	103	103
13C-PCB-209	3.56e+07	1.18	y	0.71	56:55	1.050	1.045	1.055	105	105

CRS vs. RS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	8.64e+07	0.77	y	1.02	37:51	1.029	1.024	1.033	97.0	97.0
13C-PCB-178	3.14e+07	0.45	y	0.64	45:41	0.985	0.980	0.989	98.8	98.8

PS vs. IS

Name	Resp	RA		RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	8.64e+07	0.77	y	1.02	37:51	0.968	0.963	0.973	95.2	95.2
13C-PCB-178	3.14e+07	0.45	y	0.84	45:41	0.925	0.920	0.930	98.7	98.7

RS

Name	Resp	RA		RRF	RT	Conc
13C-PCB-15	1.34e+08	1.56	y	1.00	25:59	100
13C-PCB-31	7.47e+07	1.02	y	1.00	29:01	100
13C-PCB-60	8.72e+07	0.74	y	1.00	36:48	100
13C-PCB-111	6.56e+07	1.64	y	1.00	39:17	100
13C-PCB-128	4.99e+07	1.27	y	1.00	46:24	100
13C-PCB-205	4.76e+07	0.89	y	1.00	54:12	100

Analyst: DMS

Date: 1/22/15

Vista Analytical Laboratory - Injection Log Run file: Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
150114E1	4	ST150114E1-3	dms	14-JAN-15	15:50:46	NA	NA
150114E1	5	ST150114E1-4	dms	14-JAN-15	16:55:24	NA	NA
150114E1	6	ST150114E1-5	dms	14-JAN-15	18:00:03	NA	NA
150114E1	7	ST150114E1-6	dms	14-JAN-15	19:04:40	NA	NA
150114E1	8	ST150114E1-7	dms	14-JAN-15	20:09:16	NA	NA
150114E1	9	SOLVENT BLANK	dms	14-JAN-15	21:13:53	NA	NA
150114E1	10	ST150114E1-8	dms	14-JAN-15	22:18:30	NA	NA
150114E1	11	SOLVENT BLANK	dms	14-JAN-15	23:23:07	NA	NA

Vista Analytical Laboratory - Injection Log Run file: 150116E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
150116E1	2	STi150116E1-2	dms	16-JAN-15	08:51:27	NA	NA