

Lower Duwamish Waterway

NPDES Inspection Sampling Support 2014/2015

Prepared for



Toxics Cleanup Program
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Appendix X
Samson Tug & Barge

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.

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X-1 Introduction and Background

Facility Name	Samson Tug & Barge
Facility/Site ID	1020256
Address	6361 1 st Avenue S Seattle, WA 98108
NPDES Permit Type	Industrial Stormwater General Permit
NPDES Permit No.	WAR011484
Permit Monitoring Requirements	Turbidity, pH, total zinc, total copper, petroleum-oil, grease, PCBs
SIC Code	4491 Marine Cargo Handling
Inspection Date	February 10, 2015
Grab Samples	3 water samples (including one field duplicate), 2 solids samples
Sample ID(s)	ST-OF-01-20150210-W ST-FD-02-20150210-W ST-TS-01-20150210-W ST-CB-04A-20150210-S ST-CB-08-20150210-S
Water Sample Analytes	Total metals, mercury, PCB congeners, dioxins/furans, SVOCs, alkalinity/carbonate/bicarbonate, anions, specific conductance, pH, TOC, DOC, TSS, salinity (ST-OF-01 only)
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

The Samson Tug & Barge site is approximately 5 acres in size and located adjacent to the LDW at River Mile 1.9 East. The facility operates as a cargo shipping yard for seagoing ships. Cargo shipments include fish, fish products, construction equipment, and vehicles. Industrial activities at the facility include loading and unloading of containerized cargo, temporary storage of raw materials, barge operations, and vehicle and equipment maintenance and fueling. Equipment maintenance conducted at the site includes engine maintenance, lubrication, and pressure washing. Materials exposed to stormwater include scrap metal, metal cargo, automobiles, tires, dredged sediments, steel drums, forklifts, and cranes. The Duwamish Marine Center is located directly south of the property (Greylock Consulting 2012). The majority of the site is unpaved. An overview of the facility is presented in Figure X-1.

X-1.1 Stormwater Conveyance

According to a 2012 Stormwater Pollution Prevention Plan (SWPPP), nine catch basins and two outfalls are present on the facility. Seven of the catch basins (CB-01 through CB-07, including

CB-04A) drain the southern 4 acres of the property and discharge to the LDW via Outfall 1. Stormwater is conveyed to a treatment system prior to discharge. During the February 2015 inspection, three additional catch basins (CB-10 through CB-12) were identified that connected to the storm drain line at the southern portion of the property (Figure X-1). Two catch basins (CB-08 and CB-09) drain the northern acre of the property and convey stormwater to Outfall 2. The SWPPP indicates that Outfall 2 is locked and sealed and that stormwater is pumped to the sanitary sewer (Greylock Consulting 2012).

X-1.2 Recent Compliance History

In April 2013, Ecology issued Administrative Order No. 9844 to Samson Tug & Barge for repeated exceedances of discharge benchmarks from 2010 to 2012. The facility installed settling tanks as part of a Level 3 corrective action but failed to submit an engineering report. As part of the Administrative Order, Ecology required the facility to submit an engineering report, install and operate a final stormwater treatment system, update and re-certify the facility's SWPPP, and provide adequate wheel washing for all trucks and vehicles exiting the site (Ecology 2013).

Based on available discharge monitoring reports, the facility exceeded benchmarks for copper, zinc, and turbidity during the 1st and 2nd quarters of 2014. The facility failed to submit discharge monitoring reports for monitoring periods since the 2nd quarter of 2014 (Ecology 2015).

X-2 Inspection and Sampling

X-2.1 February 2015 Stormwater Compliance Inspection

On February 10, 2015, Ecology conducted a stormwater compliance inspection at Samson Tug & Barge. 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 X-2 using geographic information system software. An inspection photographic log and field documentation are presented in Attachments X-1 and X-2, respectively.

The field team inspected the following stormwater conveyance structures at Samson, as shown on Figure X-2 (locations where samples were collected are shown in bold font):

- **Catch basin 04A (ST-CB-04A)**
- Catch basin 05 (ST-CB-05)
- Catch basin 06 (ST-CB-06)
- Catch basin 07 (ST-CB-07)
- **Catch basin 08 (ST-CB-08)**
- **Treatment system 01 (ST-TS-01)**
- **Outfall 1 (ST-OF-01).**

Locations ST-CB-04A and ST-CB-08 contained sufficient sampleable material and were representative of storm drain solids at the facility. Locations ST-OF-01 and ST-TS-01 contained sufficient water to collect a water grab sample. Locations ST-CB-05, ST-CB-06, and ST-CB-07 were covered in either mud or turbid water and could not be sampled. Ecology conducted a dye test for CB-03 and determined that the catch basin discharges to the outfall. Storm drain structure inspection locations are presented in Figure X-2.

X-2.2 Stormwater Conveyance System Sampling

Ecology collected three water samples (including one field duplicate) and two solids samples from the stormwater conveyance system at Samson. Sample locations, analytes, and analytical methods are listed on Table X-1. Results for water samples are presented in Tables X-2 through X-5. Results for solids samples are presented in Tables X-6 through X-9. Chain of custody forms and the laboratory reports are provided as Attachments X-3 and X-4, respectively.

X-2.2.1 Water Samples

Water sample ST-OF-01-20150210-W was collected directly from outfall OF-1 (Figure X-2 and Attachment X-1), which is located on the southwest bank at the facility. Stormwater from 4 acres of the facility is conveyed to a treatment system and discharges to the LDW via OF-1. During sample collection at OF-1, a low flow of turbid discharge was collected. The turbidity was measured at 473 NTU and had a slight sheen.

Water sample ST-TS-01-20150210-W and field duplicate ST-FD-02-20150210-W (Figure X-2 and Attachment X-1) were collected from the sample port of the treatment system. The treatment system treats stormwater from most of the facility prior to discharge to the LDW. The stormwater treatment system was activated to collect the water sample from the sample port.

X-2.2.2 Solids Samples

Solids sample ST-CB-04A-20150210-S was collected from catch basin CB-04A, which is located directly upstream of the stormwater treatment system at Samson Tug & Barge. Stormwater from most of the site passes through CB-04A prior to treatment and discharge to the LDW via OF-1.

Solids sample ST-CB-08-20150210-S was collected from catch basin CB-08, which is located at the northern portion of the facility. According to the facility SWPPP, stormwater is pumped from CB-08 to the sanitary sewer.

X-3 Results

X-3.1 Chemical Analysis

Ecology collected three water samples (including one field duplicate) and two solids samples during the February 10, 2015 stormwater compliance inspection at Samson Tug & Barge. Analytical methods, chemical results, and regulatory criteria are presented in Tables X-1 through X-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, and zinc) and total PCB congeners exceeded a screening level in all three water samples collected at this property (Table X-3). In addition, a variety of PAHs and pentachlorophenol were detected in one or more samples above a screening level in water.

Dry weight concentrations of the following chemicals exceeded a screening level in one or more solids samples (Table X-7).

- Metals: zinc;
- PCBs: total PCB congeners;
- PAHs: anthracene, benzo(a)anthracene, chrysene, fluoranthene, fluorene, phenanthrene, pyrene, total HPAHs, total LPAHs, total cPAHs;
- Phthalates: bis(2-ethylhexyl)phthalate;
- Other SVOCs: n-nitrosodiphenylamine;
- TPH: gasoline- and motor oil-range hydrocarbons.

Several PAHs and bis(2-ethylhexyl)phthalate also exceeded the organic carbon-normalized criteria in solids samples, as shown in Table X-8.

X-3.2 Inspection Results and Permit Compliance Requirements

The Ecology inspection report was not available for review.

X-4 References

- Ecology (Washington State Department of Ecology). 2013. Letter from Kevin Fitzpatrick, Ecology, to Jerry Morgan, Samson Tug and Barge. RE: Administrative Order for Level 3 Corrective Action Samson Tug and Barge – Seattle Facility, Industrial Stormwater General Permit Number WAR011484. April 26, 2013.
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- EPA (U.S. Environmental Protection Agency). 1994. USEPA Contract Laboratory Program, *National Functional Guidelines for Inorganic Data Review*. EPA 540/R-94/013. Office of Emergency and Remedial Response. February 1994.
- EPA. 2008. USEPA Contract Laboratory Program, *National Functional Guidelines for Organic Data Review*. EPA-540-R-08-01. Office of Emergency and Remedial Response. June 2008.

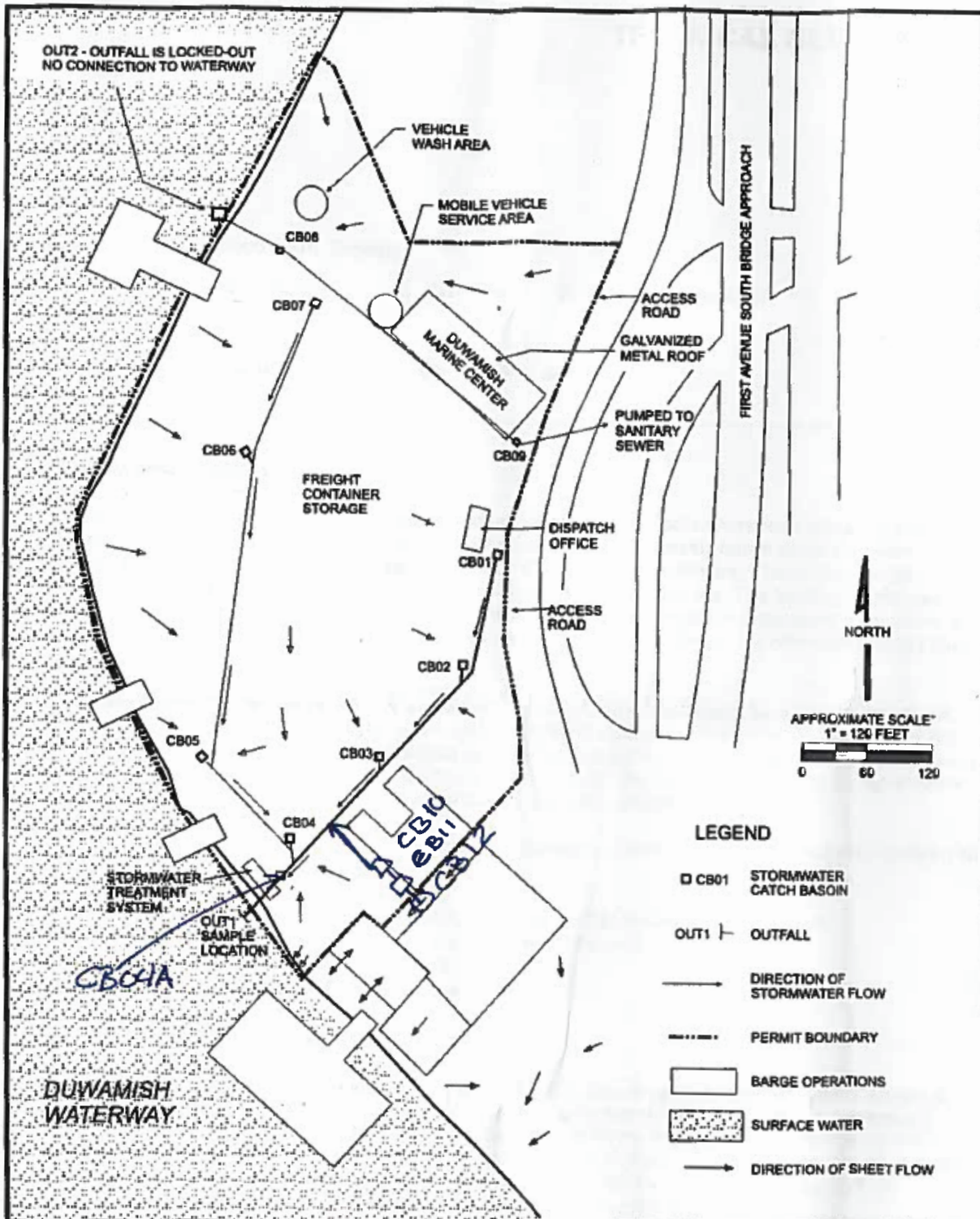
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Greylock Consulting. 2012. Stormwater Pollution Prevention Plan, Samson Tug & Barge Company and Duwamish Marine Center, 6361 1st Avenue South, in Seattle, Washington. June 1, 2012.

Leidos. 2015. Lower Duwamish Waterway NPDES Inspection Sampling Support, 2014/2015. Prepared for Washington State Department of Ecology, Toxics Cleanup Program, Northwest Regional Office. June 2015.

Figures



Lean Environment

8259 122ND AVENUE NE, SUITE 215
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FIGURE 1 - DUWAMISH MARINE SITE PLAN AND SHEET FLOW DIAGRAM

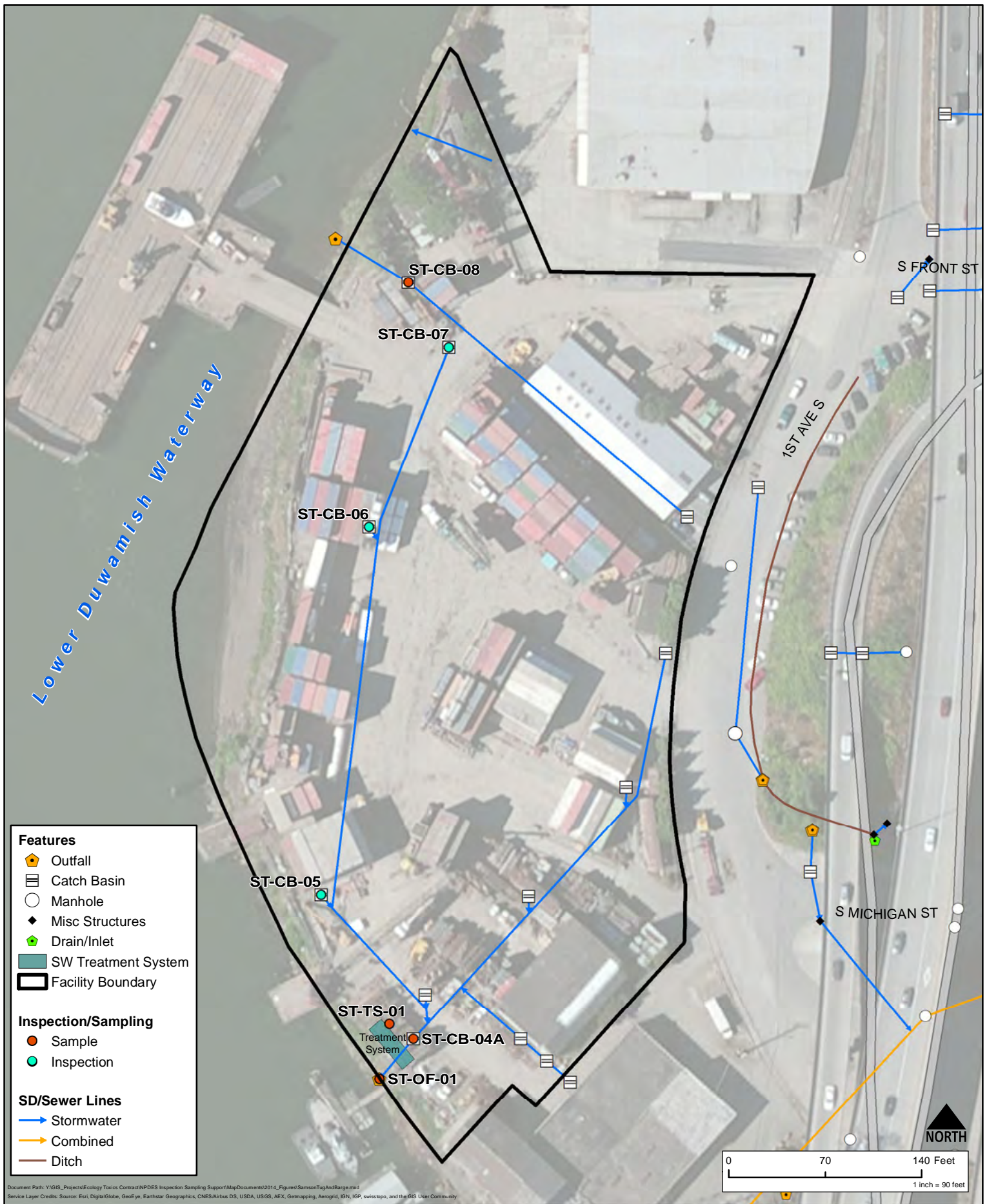
SAMPSON TUG AND BARGE / DUWAMISH METAL FABRICATION
6381 FIRST AVENUE SOUTH, SEATTLE WA 98109

DRAWN BY:
M. JOHNSON
DATE:
MAY 14, 2013
PAGE:
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Figure X-1. Samson Tug & Barge SWPPP Map





Document Path: Y:\GIS_Projects\Ecology Toxics Contract\NPDES Inspection Sampling Support\MapDocuments\2014_Figures\SamsonTugAndBarge.mxd
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Figure X-2. Samson Tug & Barge Inspection and Sampling Locations



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 X-1
Sampling Locations and Analytical Methods
Samson Tug and Barge

Analyte	Method	Sample Location / Collection Date				
		ST-CB-04A 2/10/2015	ST-CB-08 2/10/2015	ST-OF-01 2/10/2015	ST-TS-01 2/10/2015	ST-FD-02 2/10/2015
Water Samples						
Metals (total)	EPA 200.8			●	●	●
Mercury (total, dissolved)	EPA 245.1			●	●	●
PCB Congeners	EPA 1668C			●	●	●
SVOCs	SW 8270D			●	●	●
Dioxins/furans	EPA 1613B			●	●	●
Alkalinity/Bicarbonate/Carbonate	SM2320B			●	●	●
Anions	EPA 300.0			●	●	●
Specific Conductance	EPA 120.1			●	●	●
pH	SM 4500H+B			●	●	●
Salinity	SM 2520			●		
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 X-2. Water Sample Results
Samson Tug and Barge**

	Location ID					ST-OF-01	ST-TS-01	ST-FD-02
	Collection Date					2/10/2015	2/10/2015	2/10/2015
Analyte	ISGP Benchmark	WA WQC		NTR WQC	NR WQC	Result	Result	Result
		Marine		HHO	HHO			
		Chronic	Acute					
Total Metals (µg/L)								
Antimony	--	--	--	--	--	3.7	8.1	7.6
Arsenic	150	36	69	--	--	14	13	12
Beryllium	--	--	--	--	--	0.34 J	0.22 J	0.25 J
Cadmium	2.1	9.4	42	--	--	0.75	0.34 J	0.31 J
Chromium	--	--	--	--	--	41	27	22
Chromium, hexavalent	--	--	--	--	--	na	na	na
Copper	14	3.7	5.8	--	--	110	53	48
Lead	81.6	8.5	221	--	--	84	44	40
Mercury	1.4	0.025	2.1	--	--	0.23	0.12 J	0.19 J
Nickel	--	8.3	75	--	--	33	21	18
Selenium	5	71	291	--	--	0.48 J	0.58 J	0.77 J
Silver	3.8	--	2.2	--	--	0.16 J	0.16 J	0.14 J
Thallium	--	--	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U
Zinc	117	86	95	--	--	400	160	150
PCB Congeners (µg/L) ^a								
Total PCB Congeners	--	0.03	10	1.70E-04	6.40E-05	0.081 J	0.140 J	0.121 J
PCB TEQ, nd SDL*0	--	0.03	10	--	--	1.78E-07 J	5.27E-06 J	4.59E-06 J
PCB TEQ, nd SDL*0.5	--	0.03	10	--	--	2.29E-06 J	5.79E-06 J	4.92E-06 J
PCB TEQ, nd SDL*1	--	0.03	10	--	--	4.39E-06 J	6.30E-06 J	5.25E-06 J
Dioxins and Furans (pg/L) ^a								
2,3,7,8-TCDD	--	--	--	0.014	0.0051	< 1.71 U	< 1.50 U	< 0.750 U*
1,2,3,7,8-PeCDD	--	--	--	--	--	< 2.50 U	3.23 J	2.91 J
1,2,3,4,7,8-HxCDD	--	--	--	--	--	< 5.58 U*	7.87 J	10.40 J
1,2,3,6,7,8-HxCDD	--	--	--	--	--	24.5 J	46.0	35.9
1,2,3,7,8,9-HxCDD	--	--	--	--	--	< 11.3 U*	16.9 J	17.7 J
1,2,3,4,6,7,8-HpCDD	--	--	--	--	--	799	1570	1320
OCDD	--	--	--	--	--	9110	17100	14800
2,3,7,8-TCDF	--	--	--	--	--	1.46 J	2.67 J	2.46 J
1,2,3,7,8-PeCDF	--	--	--	--	--	< 1.27 U*	< 2.34 U*	2.09 J
2,3,4,7,8-PeCDF	--	--	--	--	--	2.3 J	3.48 J	3.14 J
1,2,3,4,7,8-HxCDF	--	--	--	--	--	< 5.67 U*	14.1 J	10.7 J
1,2,3,6,7,8-HxCDF	--	--	--	--	--	4.04 J	6.18 J	5.84 J
1,2,3,7,8,9-HxCDF	--	--	--	--	--	< 1.24 U	< 3.07 U	1.46 J

**Table X-2. Water Sample Results
Samson Tug and Barge**

	Location ID					ST-OF-01	ST-TS-01	ST-FD-02
	Collection Date					2/10/2015	2/10/2015	2/10/2015
Analyte	ISGP Benchmark	WA WQC		NTR WQC	NR WQC	Result	Result	Result
		Marine		HHO	HHO			
		Chronic	Acute					
2,3,4,6,7,8-HxCDF	--	--	--	--	--	6.55 J	11.3 J	10.2 J
1,2,3,4,6,7,8-HpCDF	--	--	--	--	--	121	238	201
1,2,3,4,7,8,9-HpCDF	--	--	--	--	--	9.98 J	22.5 J	17.6 J
OCDF	--	--	--	--	--	605	1400	1180
Total TCDD	--	--	--	--	--	< 1.71 U	< 3.17 U*	< 2.35 U*
Total PeCDD	--	--	--	--	--	11.1 J	18.0 J	17.1 J
Total HxCDD	--	--	--	--	--	240 J	529	434
Total HpCDD	--	--	--	--	--	2790	5660	4790
Total TCDF	--	--	--	--	--	4.05 J	35.0 J	33.5 J
Total PeCDF	--	--	--	--	--	44.3 J	67.5 J	62.5 J
Total HxCDF	--	--	--	--	--	136 J	275	242 J
Total HpCDF	--	--	--	--	--	493	1080	871
Dioxin/Furan TEQ, nd SDL*0	--	--	--	--	--	16.6 J	38.6 J	33.6 J
Dioxin/Furan TEQ, nd SDL*0.5	--	--	--	--	--	19.9 J	39.6 J	33.9 J
Dioxin/Furan TEQ, nd SDL*1	--	--	--	--	--	23.2 J	40.5 J	34.3 J
PAHs (µg/L)								
1-Methylnaphthalene	--	--	--	--	--	< 0.29 U	< 0.28 U	< 0.28 U
2-Chloronaphthalene	--	--	--	--	1,600	< 0.29 U	< 0.28 U	< 0.28 U
2-Methylnaphthalene	--	--	--	--	--	0.10 J	< 0.95 U	< 0.95 U
Acenaphthene	--	--	--	--	990	0.10 J	< 0.47 U	< 0.47 U
Acenaphthylene	--	--	--	--	--	< 0.38 U	< 0.38 U	< 0.38 U
Anthracene	--	--	--	110,000	40,000	0.21 J	0.16 J	0.15 J
Benzo(a)anthracene	--	--	--	0.031	0.018	0.22 J	0.18 J	0.18 J
Benzo(a)pyrene	--	--	--	0.031	0.018	0.099 J	< 0.19 UJ	< 0.19 UJ
Benzo(b)fluoranthene	--	--	--	0.031	0.018	0.24 J	0.19 J	0.17 J
Benzo(g,h,i)perylene	--	--	--	--	--	< 0.29 U	< 0.28 U	< 0.28 U
Benzo(k)fluoranthene	--	--	--	0.031	0.018	0.13 J	< 0.28 U	< 0.28 U
Chrysene	--	--	--	0.031	0.018	0.33	0.18 J	0.21
Dibenz(a,h)anthracene	--	--	--	0.031	0.018	< 0.29 U	< 0.28 U	< 0.28 U
Dibenzofuran	--	--	--	--	--	< 1.9 U	< 1.9 U	< 1.9 U
Fluoranthene	--	--	--	370	140	0.40	0.29	0.30
Fluorene	--	--	--	14,000	5,300	0.30	0.13 J	0.099 J
Indeno(1,2,3-cd)pyrene	--	--	--	0.031	0.018	< 0.29 U	< 0.28 U	0.095 J
Naphthalene	--	--	--	--	--	< 1.9 U	< 1.9 U	< 1.9 U
Phenanthrene	--	--	--	--	--	0.58	0.27 J	0.23 J

**Table X-2. Water Sample Results
Samson Tug and Barge**

Analyte	Location ID					ST-OF-01	ST-TS-01	ST-FD-02
	Collection Date					2/10/2015	2/10/2015	2/10/2015
	ISGP Benchmark	WA WQC		NTR WQC	NR WQC	Result	Result	Result
		Marine		HHO	HHO			
	Chronic	Acute						
Pyrene	--	--	--	11,000	4,000	0.75	0.33	0.31
Total Benzofluoranthenes	--	--	--	--	--	0.37 J	0.19 J	0.17 J
Total HPAHs	--	--	--	--	--	2.2 J	1.2 J	1.3 J
Total LPAHs	--	--	--	--	--	1.2 J	0.56 J	0.48 J
Total PAHs	--	--	--	--	--	3.4 J	1.7 J	1.7 J
cPAHs, nd RL*0	--	--	--	--	--	0.16 J	0.039 J	0.047 J
cPAHs, nd RL*0.5	--	--	--	--	--	0.19 J	0.18 J	0.17 J
cPAHs, nd RL*1	--	--	--	--	--	0.22 J	0.31 J	0.29 J
Phthalates (µg/L)								
bis(2-Ethylhexyl)phthalate	--	--	--	5.9	2.2	< 14 U	< 14 U	< 14 U
Butylbenzylphthalate	--	--	--	--	1,900	< 2.9 U	< 2.8 U	< 2.8 U
Di-n-Butylphthalate	--	--	--	12,000	4,500	< 1.9 U	< 1.9 U	< 1.9 U
Diethylphthalate	--	--	--	120,000	44,000	< 0.73 U	< 0.82 U	< 0.83 U
Dimethylphthalate	--	--	--	2,900,000	1,100,000	< 1.9 U	< 1.9 U	< 1.9 U
Di-n-Octyl phthalate	--	--	--	--	--	< 1.9 U	< 1.9 U	< 1.9 U
Phenols (µg/L)								
2,3,4,6-Tetrachlorophenol	--	--	--	--	--	< 3.3 U	< 3.3 U	< 3.3 U
2,4,5-Trichlorophenol	--	--	--	--	3,600	< 1.9 U	< 1.9 U	< 1.9 U
2,4,6-Trichlorophenol	--	--	--	6.5	2.4	< 2.9 U	< 2.8 U	< 2.8 U
2,4-Dichlorophenol	--	--	--	790	290	< 1.9 U	< 1.9 U	< 1.9 U
2,4-Dimethylphenol	--	--	--	--	850	< 9.5 U	< 9.5 U	< 9.5 U
2,4-Dinitrophenol	--	--	--	14,000	5,300	< 24 U	< 24 U	< 24 U
2-Chlorophenol	--	--	--	--	150	< 1.9 U	< 1.9 U	< 1.9 U
2-Methylphenol	--	--	--	--	--	< 1.9 U	< 1.9 U	< 1.9 U
2-Nitrophenol	--	--	--	--	--	< 1.9 U	< 1.9 U	< 1.9 U
4,6-Dinitro-2-Methylphenol	--	--	--	765	280	< 19 U	< 19 U	< 19 U
4-Chloro-3-methylphenol	--	--	--	--	--	< 1.9 U	< 1.9 U	< 1.9 U
4-Methylphenol	--	--	--	--	--	< 3.8 U	< 3.8 U	< 3.8 U
4-Nitrophenol	--	--	--	--	--	< 14 U	< 14 U	< 14 U
Pentachlorophenol	--	7.9	13	8.2	3.0	0.88 J	3.5	3.6
Phenol	--	--	--	4,600,000	860,000	< 2.9 U	< 2.8 U	< 2.8 U
Other SVOCs (µg/L)								
1,2,4-Trichlorobenzene	--	--	--	--	70	< 1.9 U	< 1.9 U	< 1.9 U
1,2-Dichlorobenzene	--	--	--	17,000	1,300	< 1.9 U	< 1.9 U	< 1.9 U
1,3-Dichlorobenzene	--	--	--	2,600	960	< 1.9 U	< 1.9 U	< 1.9 U

**Table X-2. Water Sample Results
Samson Tug and Barge**

Analyte	Location ID					ST-OF-01	ST-TS-01	ST-FD-02
	Collection Date					2/10/2015	2/10/2015	2/10/2015
	ISGP Benchmark	WA WQC		NTR WQC	NR WQC	Result	Result	Result
		Marine		HHO	HHO			
	Chronic	Acute						
1,4-Dichlorobenzene	--	--	--	2,600	190	< 1.9 U	< 1.9 U	< 1.9 U
2,4-Dinitrotoluene	--	--	--	9.1	3.4	< 1.9 U	< 1.9 U	< 1.9 U
2,6-Dinitrotoluene	--	--	--	--	--	< 1.9 U	0.55 J	0.55 J
2-Nitroaniline	--	--	--	--	--	< 1.9 U	< 1.9 U	< 1.9 U
3,3'-Dichlorobenzidine	--	--	--	0.077	0.028	R	R	R
3-Nitroaniline	--	--	--	--	--	< 1.9 U	< 1.9 U	< 1.9 U
4-Bromophenyl-phenylether	--	--	--	--	--	< 1.9 U	< 1.9 U	< 1.9 U
4-Chloroaniline	--	--	--	--	--	R	R	R
4-Chlorophenyl-phenylether	--	--	--	--	--	< 1.9 U	< 1.9 U	< 1.9 U
4-Nitroaniline	--	--	--	--	--	< 2.9 U	< 2.8 U	< 2.8 U
Benzoic Acid	--	--	--	--	--	< 14 U	< 14 U	< 14 U
Benzyl Alcohol	--	--	--	--	--	< 1.9 U	< 1.9 U	< 1.9 U
2,2'-Oxybis(1-Chloropropane)	--	--	--	170,000	65,000	< 1.9 U	< 1.9 U	< 1.9 U
bis(2-Chloroethoxy) Methane	--	--	--	--	--	< 1.9 U	< 1.9 U	< 1.9 U
Bis-(2-Chloroethyl) Ether	--	--	--	1.4	0.53	< 1.9 U	< 1.9 U	< 1.9 U
Carbazole	--	--	--	--	--	< 1.9 U	< 1.9 U	< 1.9 U
Hexachlorobenzene	--	--	--	0.00077	0.00029	< 1.9 U	< 1.9 U	< 1.9 U
Hexachlorobutadiene	--	--	--	50	18	< 2.9 U	< 2.8 U	< 2.8 U
Hexachlorocyclopentadiene	--	--	--	17,000	1,100	< 9.5 U	< 9.5 U	< 9.5 U
Hexachloroethane	--	--	--	8.9	3.3	< 2.9 U	< 2.8 U	< 2.8 U
Isophorone	--	--	--	600	960	< 1.9 U	< 1.9 U	< 1.9 U
Nitrobenzene	--	--	--	1,900	690	< 1.9 U	< 1.9 U	< 1.9 U
N-Nitrosodimethylamine	--	--	--	8.1	3.0	< 9.5 U	< 9.5 U	< 9.5 U
N-Nitroso-Di-N-Propylamine	--	--	--	--	0.51	< 1.9 U	< 1.9 U	< 1.9 U
N-Nitrosodiphenylamine	--	--	--	16	6.0	0.82 J	< 1.9 U	< 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 Method 1668C (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 X-3. Water Sample Results Compared to Criteria
Samson Tug and Barge**

Location ID	ST-OF-01					ST-TS-01					ST-FD-02				
Collection Date	2/10/2015					2/10/2015					2/10/2015				
Analyte	Exceedance Factor					Exceedance Factor					Exceedance Factor				
	ISGP Benchmark	WA Marine Chronic	WA Marine Acute	NTR Human Health - Organisms	NR Human Health - Organisms	ISGP Benchmark	WA Marine Chronic	WA Marine Acute	NTR Human Health - Organisms	NR Human Health - Organisms	ISGP Benchmark	WA Marine Chronic	WA Marine Acute	NTR Human Health - Organisms	NR Human Health - Organisms
Total Metals															
Copper	7.9	29	19			3.8	14	9.2			3.4	13	8.3		
Lead	1.0	10					5.2					4.7			
Mercury		9.2					4.8					7.6			
Nickel		4.0					2.5					2.2			
Zinc	3.4	4.7	4.2			1.4	1.9	1.7			1.3	1.8	1.6		
PCB Congeners															
Total PCB Congeners		2.7		478	1,269		4.7		824	2,188		4.0		712	1,891
PAHs															
Benzo(a)anthracene				7.1					5.8					5.8	
Benzo(a)pyrene				3.2											
Benzo(b)fluoranthene				7.7					6.1					5.5	
Benzo(k)fluoranthene				4.2											
Chrysene				11					5.8					6.8	
Indeno(1,2,3-cd)pyrene														3.1	
Phenols															
Pentachlorophenol											1.2				1.2

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 X-4. Water Sample Results - PCB Congeners
Samson Tug and Barge**

Location ID	ST-OF-01	ST-TS-01	ST-FD-02
Collection Date	2/10/2015	2/10/2015	2/10/2015
Analyte	Result	Result	Result
Total PCB Congeners (µg/L)	0.0812 J	0.140 J	0.121 J
Total PCB Congeners (pg/L)	81,200 J	140,000 J	121,000 J
Total Mono-CB (pg/L)	77.2 J	213 J	169 J
PCB-1	35.2 J	96.6	72.5
PCB-2	< 21.3 U	25.2 J	23.3 J
PCB-3	42.0 J	91.6	73.2
Total Di-CB (pg/L)	584 J	1,300	1,030 J
PCB-4/10	< 134 U	128	99.6 J
PCB-5/8	187 J	408	316
PCB-6	< 108 U	105	83.4
PCB-7/9	< 106 U	< 54.3 U	< 56.0 U
PCB-11	140	115	90.7
PCB-12/13	< 113 U	< 54.8 U	< 56.1 U
PCB-14	< 97.0 U	< 47.2 U	< 48.3 U
PCB-15	257	548	442
Total Tri-CB (pg/L)	2,340 J	4,460 J	4,100 J
PCB-16/32	240	400	363
PCB-17	< 86.4 U*	178	154
PCB-18	< 268 U*	483	430
PCB-19	< 29.6 U	77.3	69.8
PCB-20/21/33	315	462	442
PCB-22	232	284	284
PCB-23	< 33.4 U	< 14.9 U	< 13.7 U
PCB-24/27	40.0 J	63.8 J	57.8 J
PCB-25	45.6 J	82.0	80.2
PCB-26	89.3 J	144	137
PCB-28	625	1,020	990
PCB-29	< 33.4 U	< 14.9 U	< 13.7 U
PCB-30	< 18.7 U	< 10.2 U	< 12.4 U
PCB-31	490	738	653
PCB-34	< 31.1 U	< 13.9 U	< 12.8 U
PCB-35	< 33.2 U	29.0 J	< 25.8 U*
PCB-36	< 32.1 U	< 14.6 U	< 14.0 U
PCB-37	258	499	445
PCB-38	< 33.6 U	< 15.3 U	< 14.6 U
PCB-39	< 33.1 U	< 15.1 U	< 14.4 U
Total Tetra-CB (pg/L)	7,650 J	14,300 J	12,600 J
PCB-40	< 135 U*	238	206
PCB-41/64/71/72	676	1,170	971
PCB-42/59	223	387	352
PCB-43/49	578	1,010	826
PCB-44	904	1,700	1,540
PCB-45	104	214	177
PCB-46	60.3 J	131	101
PCB-47	188	288	278
PCB-48/75	< 80.9 U*	163	128
PCB-50	< 47.8 U	< 22.3 U	< 24.3 U
PCB-51	37.0 J	82.5	65.8
PCB-52/69	1,490	2,740	2,440
PCB-53	< 135 U*	307	279
PCB-54	< 36.3 U	< 16.9 U	< 18.4 U
PCB-55	30.2 J	61.1	50.7

**Table X-4. Water Sample Results - PCB Congeners
Samson Tug and Barge**

Location ID	ST-OF-01	ST-TS-01	ST-FD-02
Collection Date	2/10/2015	2/10/2015	2/10/2015
Analyte	Result	Result	Result
PCB-56/60	485	897	719
PCB-57	< 33.5 U	< 16.4 U	< 20.8 U
PCB-58	< 33.0 U	< 16.2 U	< 20.4 U
PCB-61/70	1,460	2,420	2,180
PCB-62	< 39.8 U	< 19.0 U	< 19.8 U
PCB-63	< 32.2 U	46.0 J	43.8 J
PCB-65	< 41.0 U	< 19.6 U	< 20.4 U
PCB-67	< 34.3 U	40.1 J	31.8 J
PCB-68	< 33.5 U	< 16.0 U	< 11.2 U*
PCB-73	< 35.3 U	< 17.0 U	< 19.9 U
PCB-74	439	660	592
PCB-76/66	829	1,450	1,310
PCB-77	105	231	205
PCB-78	< 29.6 U	< 15.7 U	< 19.9 U
PCB-79	39.9 J	86.6	65.8
PCB-80	< 23.9 U	< 14.0 U	< 16.1 U
PCB-81	< 7.80 U*	16.8 J	< 16.8 U*
Total Penta-CB (pg/L)	26,100 J	46,100 J	39,100 J
PCB-82	494	989	846
PCB-83	< 40.9 U	< 25.0 U	< 21.5 U
PCB-84/92	1,850	3,390	3,040
PCB-85/116	579	999	899
PCB-86	< 65.8 U	< 40.2 U	< 34.5 U
PCB-87/117/125	1,450	2,350	2,040
PCB-88/91	559	1,240	950
PCB-89	< 55.5 U	< 70.3 U*	< 53.9 U*
PCB-90/101	3,950	6,330	5,680
PCB-93	< 63.8 U	< 41.8 U	< 29.9 U
PCB-94	< 59.9 U	41.4 J	< 28.1 U
PCB-95/98/102	3,430	6,670	5,510
PCB-96	< 34.2 U*	43.6 J	37.7 J
PCB-97	1,190	2,020	1,780
PCB-99	1,470	2,370	2,100
PCB-100	< 63.0 U	23.4 J	< 24.5 U
PCB-103	< 62.7 U	42.8 J	42.9 J
PCB-104	< 48.1 U	< 25.6 U	< 18.7 U
PCB-105	1,250	1,910	1,600
PCB-106/118	3,380	5,780	4,690
PCB-107/109	187 J	383	< 295 U*
PCB-108/112	206	364	313
PCB-110	5,750	10,200	8,860
PCB-111/115	58.4 J	86.6 J	93.2 J
PCB-113	< 41.3 U	< 12.3 U*	13.2 J
PCB-114	< 47.0 U*	85.3	80.6
PCB-119	65.0 J	115	101
PCB-120	< 11.0 U*	31.5 J	< 17.9 U
PCB-121	< 38.5 U	< 25.2 U	< 18.0 U
PCB-122	< 38.0 U*	75.9	< 59.6 U*
PCB-123	47.7 J	130	98.1
PCB-124	181	361	267
PCB-126	< 30.7 U	49.5 J	43.3 J
PCB-127	< 55.0 U	< 29.7 U	< 32.0 U

**Table X-4. Water Sample Results - PCB Congeners
Samson Tug and Barge**

Location ID	ST-OF-01	ST-TS-01	ST-FD-02
Collection Date	2/10/2015	2/10/2015	2/10/2015
Analyte	Result	Result	Result
Total Hexa-CB (pg/L)	26,300 J	45,600 J	40,500 J
PCB-128/162	1,050	1,910	1,730
PCB-129	324	600	533
PCB-130	423	877	675
PCB-131	3.60 J	< 39.9 U	< 25.5 U
PCB-132/161	1,960	3,540	3,220
PCB-133/142	151 J	336	304
PCB-134/143	318	644	556
PCB-135	831	1,350	1,170
PCB-136	771	1,290	1,040
PCB-137	220	553	480
PCB-138/163/164	5,960	10,500	9,350
PCB-139/149	4,990	7,780	6,910
PCB-140	< 55.1 U	< 38.6 U*	62.8
PCB-141	1,090	1,940	1,650
PCB-144	349	473	404
PCB-145	< 39.2 U	< 23.3 U	< 20.9 U
PCB-146/165	805	1,410	1,280
PCB-147	111	< 187 U*	193
PCB-148	< 52.4 U	< 31.1 U	< 28.0 U
PCB-150	< 38.0 U	< 22.5 U	< 20.3 U
PCB-151	1,370	2,010	1,740
PCB-152	< 36.7 U	< 21.8 U	< 19.6 U
PCB-153	3,980	7,440	6,620
PCB-154	< 41.8 U*	101	82.0
PCB-155	< 35.7 U	< 21.2 U	< 19.1 U
PCB-156	484	929	789
PCB-157	133	256	232
PCB-158/160	717	1,220	1,070
PCB-159	< 37.4 U	< 25.7 U	< 17.4 U
PCB-166	< 40.0 U	< 40.1 U*	< 26.2 U*
PCB-167	229	451	411
PCB-168	< 34.5 U	< 24.8 U	< 15.9 U
PCB-169	< 38.0 U	< 34.5 U	< 21.8 U
Total Hepta-CB (pg/L)	14,700 J	21,400	17,600 J
PCB-170	1,600	2,370	2,100
PCB-171	455	780	644
PCB-172	311	466	< 367 U*
PCB-173	< 48.8 U*	98.7	< 61.3 U*
PCB-174	1,810	3,130	2,560
PCB-175	83.9 J	109	98.2
PCB-176	263	285	270
PCB-177	1,010	1,700	1,390
PCB-178	396	426	392
PCB-179	814	1,010	865
PCB-180	3,680	5,830	4,830
PCB-181	< 27.4 U	< 29.8 U	< 19.0 U
PCB-182/187	2,380	2,710	2,300
PCB-183	1,040	1,230	1,100
PCB-184	< 29.6 U	< 18.2 U	< 11.1 U
PCB-185	194	326	279
PCB-186	< 27.2 U	< 16.7 U	< 10.2 U

**Table X-4. Water Sample Results - PCB Congeners
Samson Tug and Barge**

Location ID	ST-OF-01	ST-TS-01	ST-FD-02
Collection Date	2/10/2015	2/10/2015	2/10/2015
Analyte	Result	Result	Result
PCB-188	< 26.0 U	< 16.0 U	< 9.82 U
PCB-189	75.6 J	100	< 95.1 U*
PCB-190	313	439	428
PCB-191	82.3 J	135	107
PCB-192	< 21.3 U	< 23.1 U	< 14.7 U
PCB-193	186	279	236
Total Octa-CB (pg/L)	2,510 J	4,800 J	4,730 J
PCB-194	613	1,010	947
PCB-195	311	485	439
PCB-196/203	1,140	1,430	1,310
PCB-197	< 24.9 U*	55.0	44.4 J
PCB-198	58.0 J	< 60.6 U*	< 33.2 U*
PCB-199	< 971 U*	1,390	1,320
PCB-200	140	190	177
PCB-201	< 132 J*	180	168
PCB-202	211	< 285 U*	275
PCB-204	< 37.0 U	< 15.5 U	< 20.5 U
PCB-205	39.9 J	58.6	47.2 J
Total Nona-CB (pg/L)	754 J	1,060 J	1,050
PCB-206	546	831	763
PCB-207	56.7 J	< 86.1 U*	74.8
PCB-208	151	232	209
Deca-CB (pg/L)	228	337	292
PCB-209	228	337	292
PCB TEQ, nd SDL*0	0.178 J	5.27 J	4.59 J
PCB TEQ, nd SDL*0.5	2.29 J	5.79 J	4.92 J
PCB TEQ, nd SDL*1	4.39 J	6.30 J	5.25 J

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

**Table X-5. Water Sample Results - Conventionals
Samson Tug and Barge**

		Location ID	ST-OF-01	ST-TS-01	ST-FD-02
		Collection	2/10/2015	2/10/2015	2/10/2015
Analyte	ISGP Benchmark	Units	Result	Result	Result
Conventionals					
Alkalinity	--	mg/L	83	120	120
Bicarbonate	--	mg/L CaCO ₃	83	120	120
Carbonate	--	mg/L CaCO ₃	< 5 U	< 5 U	< 5 U
Chloride	--	mg/L	9.1	390	390
Specific Conductance	--	µmhos/cm	180	1600	1600
Hydroxide	--	mg/L CaCO ₃	na	na	na
Nitrate	--	mg/L	0.23 J	< 0.9 U	< 0.9 U
pH	5-9	std units	8.39 J	8.35 J	8.44 J
Salinity	--	mg/L	100	na	na
Sulfate	--	mg/L	7.5	73	73
Dissolved Organic Carbon	--	mg/L	2.5	4.0	4.3
Total Organic Carbon	--	mg/L	2.5	4.0	4.3
Total Suspended Solids ^a	30	mg/L	110	580	600
Turbidity	25	NTU	na	na	na
Oil & Grease	--	mg/L	na	na	na
Oil & Grease - Polar	--	mg/L	na	na	na
Oil & Grease - Silica Gel Treated	--	mg/L	na	na	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 X-6. Solids Sample Results
Samson Tug and Barge**

				Location ID	ST-CB-04A	ST-CB-08
				Collection Date	2/10/2015	2/10/2015
Analyte	SMS Criteria		Unit	Result	Result	
	SCO/ LAET ^a	CSL/ 2LAET				
Metals (Total) (mg/kg)						
Antimony	--	--	mg/kg	5.2		4.6
Arsenic	57	93	mg/kg	14		11
Beryllium	--	--	mg/kg	0.32		0.32
Cadmium	5.1	6.7	mg/kg	0.7		0.4
Chromium	260	270	mg/kg	84 J		42 J
Copper	390	390	mg/kg	130		100
Lead	450	530	mg/kg	81		78
Mercury	0.41	0.59	mg/kg	0.14		0.11
Nickel	--	--	mg/kg	58		35
Selenium	--	--	mg/kg	0.9 J		1.1 J
Silver	6.1	6.1	mg/kg	0.17 J		0.15 J
Thallium	--	--	mg/kg	< 0.6 U		< 0.62 U
Zinc	410	960	mg/kg	380		430
PCB Aroclors (µg/kg)						
Aroclor 1016	--	--	µg/kg	< 17 U		< 20 U
Aroclor 1221	--	--	µg/kg	< 19 U		< 22 U
Aroclor 1232	--	--	µg/kg	< 19 U		< 22 U
Aroclor 1242	--	--	µg/kg	< 17 U		< 20 U
Aroclor 1248	--	--	µg/kg	< 17 U		< 20 U
Aroclor 1254	--	--	µg/kg	< 17 U		< 20 U
Aroclor 1260	--	--	µg/kg	110		74
Total PCB Aroclors	130	1,000	µg/kg	110		74
PCB Congeners (µg/kg)^b						
Total PCB Congeners	130	1,000	µg/kg	426 J		264 J
PCB TEQ, nd SDL*0	--	--	µg/kg	0.015 J		0.013 J
PCB TEQ, nd SDL*0.5	--	--	µg/kg	0.016 J		0.014 J
PCB TEQ, nd SDL*1	--	--	µg/kg	0.018 J		0.016 J
Dioxins and Furans (ng/kg)						
2,3,7,8-TCDD	--	--	ng/kg	< 0.302 U*		< 0.228 U*
1,2,3,7,8-PeCDD	--	--	ng/kg	1.92 J		1.51 J
1,2,3,4,7,8-HxCDD	--	--	ng/kg	4.5		5.11
1,2,3,6,7,8-HxCDD	--	--	ng/kg	22.4		23.7
1,2,3,7,8,9-HxCDD	--	--	ng/kg	9.21		9.01
1,2,3,4,6,7,8-HpCDD	--	--	ng/kg	823		922
OCDD	--	--	ng/kg	9420 J		10,200 J
2,3,7,8-TCDF	--	--	ng/kg	1.41		1.11
1,2,3,7,8-PeCDF	--	--	ng/kg	1.58 J		1.68 J
2,3,4,7,8-PeCDF	--	--	ng/kg	2.88		2.21 J
1,2,3,4,7,8-HxCDF	--	--	ng/kg	6.6		6.46
1,2,3,6,7,8-HxCDF	--	--	ng/kg	3.61		3.29
1,2,3,7,8,9-HxCDF	--	--	ng/kg	0.454 J		0.428 J
2,3,4,6,7,8-HxCDF	--	--	ng/kg	5.13		5.14
1,2,3,4,6,7,8-HpCDF	--	--	ng/kg	83.7		92
1,2,3,4,7,8,9-HpCDF	--	--	ng/kg	5.95		6.53
OCDF	--	--	ng/kg	287		370
Dioxin/Furan TEQ, nd SDL*0	25	--	ng/kg	20.2 J		21.0 J
Dioxin/Furan TEQ, nd SDL*0.5	25	--	ng/kg	20.4 J		21.1 J
Dioxin/Furan TEQ, nd SDL*1	25	--	ng/kg	20.5 J		21.3 J

**Table X-6. Solids Sample Results
Samson Tug and Barge**

				Location ID	ST-CB-04A	ST-CB-08
				Collection Date	2/10/2015	2/10/2015
Analyte	SMS Criteria		Unit	Result	Result	
	SCO/ LAET ^a	CSL/ 2LAET				
Total TCDD	--	--	ng/kg	2.60 J	2.39 J	
Total TCDF	--	--	ng/kg	26.3 J	17.8 J	
Total PeCDD	--	--	ng/kg	17.4	15	J
Total PeCDF	--	--	ng/kg	45.5 J	44.1	
Total HxCDD	--	--	ng/kg	294	381	
Total HxCDF	--	--	ng/kg	131	152	
Total HpCDD	--	--	ng/kg	3,220	3,990	
Total HpCDF	--	--	ng/kg	319	377	
PAHs (µg/kg)						
1-Methylnaphthalene	--	--	µg/kg	74	52	J
2-Chloronaphthalene	--	--	µg/kg	< 35 UJ	< 39 UJ	
2-Methylnaphthalene	670	1,400	µg/kg	220	110	
Acenaphthene	500	730	µg/kg	460 J	120 J	
Acenaphthylene	1,300	1,300	µg/kg	72 J	44 J	
Anthracene	960	4,400	µg/kg	2,700	550	
Benzo(a)anthracene	1,300	1,600	µg/kg	1,500	1,500	
Benzo(a)pyrene	1,600	3,000	µg/kg	740	590	
Benzo(g,h,i)perylene	670	720	µg/kg	400	330	
Chrysene	1,400	2,800	µg/kg	2,200	2,400	
Dibenz(a,h)anthracene	230	540	µg/kg	130	100	
Dibenzofuran	540	700	µg/kg	530 J	220 J	
Fluoranthene	1,700	2,500	µg/kg	6,000	2,200	
Fluorene	540	1,000	µg/kg	1,200	240	
Indeno(1,2,3-cd)pyrene	600	690	µg/kg	450	360	
Naphthalene	2,100	2,400	µg/kg	150	93	
Phenanthrene	1,500	5,400	µg/kg	5,400	2,000	
Pyrene	2,600	3,300	µg/kg	5,000	4,100	
Total Benzofluoranthenes	3,200	3,600	µg/kg	2,100	1,900	
Total HPAHs	12,000	17,000	µg/kg	19,000	14,000	
Total LPAHs	5,200	13,000	µg/kg	10,000 J	3,000 J	
cPAHs, nd RL*0	1,000	--	µg/kg	1,200	1,000	
cPAHs, nd RL*0.5	1,000	--	µg/kg	1,200	1,000	
cPAHs, nd RL*1	1,000	--	µg/kg	1,200	1,000	
Phthalates (µg/kg)						
bis(2-Ethylhexyl)phthalate	1,300	1,900	µg/kg	3,600	3,300	
Butylbenzylphthalate	63	900	µg/kg	< 630 U	< 97 U	
Di-n-Butylphthalate	1,400	5,100	µg/kg	< 890 U	< 970 U	
Diethylphthalate	200	1,200	µg/kg	< 150 U	< 150 U	
Dimethylphthalate	71	160	µg/kg	< 180 UJ	< 190 UJ	
Di-n-Octyl phthalate	6,200	--	µg/kg	180 J	< 970 U	
Phenols (µg/kg)						
2,4,5-Trichlorophenol	--	--	µg/kg	< 180 U	< 190 U	
2,4,6-Trichlorophenol	--	--	µg/kg	< 270 U	< 290 U	
2,4-Dichlorophenol	--	--	µg/kg	< 180 U	< 190 U	
2,4-Dimethylphenol	29	29	µg/kg	< 180 U	< 190 U	
2,4-Dinitrophenol	--	--	µg/kg	< 1,800 U	< 1,900 U	
2-Chlorophenol	--	--	µg/kg	< 180 UJ	< 190 UJ	
2-Methylphenol	63	63	µg/kg	< 180 UJ	< 190 UJ	
2-Nitrophenol	--	--	µg/kg	< 180 U	< 190 U	

**Table X-6. Solids Sample Results
Samson Tug and Barge**

				Location ID	ST-CB-04A	ST-CB-08
				Collection Date	2/10/2015	2/10/2015
Analyte	SMS Criteria		Unit	Result	Result	Result
	SCO/ LAET ^a	CSL/ 2LAET				
4,6-Dinitro-2-Methylphenol	--	--	µg/kg	< 1,800 U	< 1,900 U	
4-Chloro-3-methylphenol	--	--	µg/kg	< 180 U	< 190 U	
4-Methylphenol	670	670	µg/kg	< 350 U	160 J	
4-Nitrophenol	--	--	µg/kg	< 1,800 U	< 1,900 U	
Pentachlorophenol	360	690	µg/kg	< 350 U	< 390 U	
Phenol	420	1,200	µg/kg	< 180 U	< 190 U	
Other SVOCs (µg/kg)						
1,2,4-Trichlorobenzene	31	51	µg/kg	< 89 UJ	< 97 UJ	
1,2-Dichlorobenzene	35	50	µg/kg	< 98 U	< 110 U	
1,3-Dichlorobenzene	--	--	µg/kg	< 89 U	< 97 U	
1,4-Dichlorobenzene	110	120	µg/kg	< 89 U	< 97 U	
2,4-Dinitrotoluene	--	--	µg/kg	< 180 U	< 190 U	
2,6-Dinitrotoluene	--	--	µg/kg	< 180 U	< 190 U	
2-Nitroaniline	--	--	µg/kg	< 180 U	< 190 U	
3,3'-Dichlorobenzidine	--	--	µg/kg	< 350 U	< 390 U	
3-Nitroaniline	--	--	µg/kg	< 180 U	< 190 U	
4-Bromophenyl-phenylether	--	--	µg/kg	< 180 U	< 190 U	
4-Chloroaniline	--	--	µg/kg	< 180 U	< 190 U	
4-Chlorophenyl-phenylether	--	--	µg/kg	< 180 UJ	< 190 UJ	
4-Nitroaniline	--	--	µg/kg	< 180 U	< 190 U	
Benzoic Acid	650	650	µg/kg	< 4,400 U	< 4,900 U	
Benzyl Alcohol	57	73	µg/kg	36 J	< 190 U	
2,2'-Oxybis(1-Chloropropane)	--	--	µg/kg	< 440 U	< 490 U	
bis(2-Chloroethoxy) Methane	--	--	µg/kg	< 180 UJ	< 190 UJ	
Bis-(2-Chloroethyl) Ether	--	--	µg/kg	< 180 UJ	< 190 UJ	
Carbazole	--	--	µg/kg	850	120 J	
Hexachlorobenzene	22	70	µg/kg	< 89 U	< 97 U	
Hexachlorobutadiene	11	120	µg/kg	< 89 UJ	< 97 UJ	
Hexachlorocyclopentadiene	--	--	µg/kg	< 180 U	< 190 U	
Hexachloroethane	--	--	µg/kg	< 180 UJ	< 190 UJ	
Isophorone	--	--	µg/kg	< 180 UJ	< 190 UJ	
Nitrobenzene	--	--	µg/kg	< 180 UJ	< 190 UJ	
N-Nitrosodimethylamine	--	--	µg/kg	< 1,800 U	< 1,900 U	
N-Nitroso-Di-N-Propylamine	--	--	µg/kg	< 180 U	< 190 U	
N-Nitrosodiphenylamine	28	40	µg/kg	56 J	78 J	
VOCs (µg/kg)						
1,1,1,2-Tetrachloroethane	--	--	µg/kg	< 1.6 U	< 1.5 U	
1,1,1-Trichloroethane	--	--	µg/kg	< 1.6 U	< 1.5 U	
1,1,2,2-Tetrachloroethane	--	--	µg/kg	< 3.2 U	< 3 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	--	--	µg/kg	< 1.6 U	< 1.5 U	
1,1,2-Trichloroethane	--	--	µg/kg	< 3.2 U	< 3 U	
1,1-Dichloroethane	--	--	µg/kg	< 1.6 U	< 1.5 U	
1,1-Dichloroethene	--	--	µg/kg	0.99 J	< 7.5 U	
1,1-Dichloropropene	--	--	µg/kg	< 1.6 U	< 1.5 U	
1,2,3-Trichlorobenzene	--	--	µg/kg	< 3.2 U	< 3 U	
1,2,3-Trichloropropane	--	--	µg/kg	< 1.6 U	< 1.5 U	
1,2,4-Trimethylbenzene	--	--	µg/kg	9.1	< 3 U	
1,2-Dibromo-3-chloropropane	--	--	µg/kg	< 3.2 U	< 3 U	
1,2-Dibromoethane	--	--	µg/kg	< 1.6 U	< 1.5 U	
1,2-Dichloroethane	--	--	µg/kg	< 1.6 U	< 1.5 U	

**Table X-6. Solids Sample Results
Samson Tug and Barge**

				Location ID	ST-CB-04A	ST-CB-08
				Collection Date	2/10/2015	2/10/2015
Analyte	SMS Criteria		Unit	Result	Result	
	SCO/ LAET ^a	CSL/ 2LAET				
1,2-Dichloropropane	--	--	µg/kg	< 1.6 U	< 1.5 U	
1,3,5-Trimethylbenzene	--	--	µg/kg	4.7 J	< 7.5 U	
1,3-Dichloropropane	--	--	µg/kg	< 3.2 U	< 3 U	
2,2-Dichloropropane	--	--	µg/kg	< 8.1 U	< 7.5 U	
2-Chloroethylvinylether	--	--	µg/kg	< 8.1 U	< 7.5 U	
2-Chlorotoluene	--	--	µg/kg	< 3.2 U	< 3 U	
2-Hexanone	--	--	µg/kg	< 8.1 U	< 7.5 U	
4-Chlorotoluene	--	--	µg/kg	< 3.2 U	< 3 U	
Acetone	--	--	µg/kg	60	71	
Acrolein	--	--	µg/kg	< 49 U	< 45 U	
Acrylonitrile	--	--	µg/kg	< 16 U	< 15 U	
Benzene	--	--	µg/kg	0.62 J	< 1.5 U	
Bromobenzene	--	--	µg/kg	< 3.2 U	< 3 U	
Bromochloromethane	--	--	µg/kg	< 3.2 U	< 3 U	
Bromoform	--	--	µg/kg	< 1.6 U	< 1.5 U	
Bromomethane	--	--	µg/kg	< 1.6 U	< 1.5 U	
Carbon Disulfide	--	--	µg/kg	4.0	0.39 J	
Carbon Tetrachloride	--	--	µg/kg	< 1.6 U	< 1.5 U	
Chlorobenzene	--	--	µg/kg	< 1.6 U	< 1.5 U	
Dibromochloromethane	--	--	µg/kg	< 1.6 U	< 1.5 U	
Chloroethane	--	--	µg/kg	< 1.6 U	< 1.5 U	
Chloroform	--	--	µg/kg	< 1.6 U	< 1.5 U	
Chloromethane	--	--	µg/kg	< 1.6 U	< 1.5 U	
cis-1,2-Dichloroethene	--	--	µg/kg	< 1.6 U	< 1.5 U	
cis-1,3-Dichloropropene	--	--	µg/kg	< 1.6 U	< 1.5 U	
Dibromomethane	--	--	µg/kg	< 1.6 U	< 1.5 U	
Bromodichloromethane	--	--	µg/kg	< 1.6 U	< 1.5 U	
Dichlorodifluoromethane	--	--	µg/kg	< 1.6 U	< 1.5 U	
Ethylbenzene	--	--	µg/kg	2.3	< 1.5 U	
Isopropylbenzene	--	--	µg/kg	1.1 J	< 3 U	
m,p-Xylene	--	--	µg/kg	9.0	0.89 J	
2-Butanone	--	--	µg/kg	14 J	26	
Iodomethane	--	--	µg/kg	< 24 U	< 23 U	
4-Methyl-2-Pentanone (MIBK)	--	--	µg/kg	10	26	
Methyl tert-Butyl Ether	--	--	µg/kg	< 1.6 U	< 1.5 U	
Methylene Chloride	--	--	µg/kg	< 24 U	< 23 U	
n-Butylbenzene	--	--	µg/kg	2.6 J	< 3 U	
n-Propylbenzene	--	--	µg/kg	< 3.2 U	< 3 U	
o-Xylene	--	--	µg/kg	15	< 3 U	
4-Isopropyltoluene	--	--	µg/kg	< 3.2 U	31	
sec-Butylbenzene	--	--	µg/kg	< 3.2 U	< 3 U	
Styrene	--	--	µg/kg	< 3.2 U	< 3 U	
tert-Butylbenzene	--	--	µg/kg	< 3.2 U	< 3 U	
Tetrachloroethene	--	--	µg/kg	< 1.6 U	< 1.5 U	
Toluene	--	--	µg/kg	1.1 J	< 3 U	
Total Xylenes	--	--	µg/kg	24	0.89 J	
trans-1,2-Dichloroethene	--	--	µg/kg	< 1.6 U	< 1.5 U	
trans-1,3-Dichloropropene	--	--	µg/kg	< 1.6 U	< 1.5 U	
trans-1,4-Dichloro-2-butene	--	--	µg/kg	< 8.1 U	< 7.5 U	
Trichloroethene	--	--	µg/kg	< 1.6 U	< 1.5 U	

**Table X-6. Solids Sample Results
Samson Tug and Barge**

				Location ID	ST-CB-04A	ST-CB-08
				Collection Date	2/10/2015	2/10/2015
Analyte	SMS Criteria		Unit	Result	Result	
	SCO/ LAET ^a	CSL/ 2LAET				
Trichlorofluoromethane	--	--	µg/kg	0.59 J	< 1.5 U	
Vinyl Acetate	--	--	µg/kg	< 8.1 U	< 7.5 U	
Vinyl Chloride	--	--	µg/kg	< 1.6 U	< 1.5 U	
TPH (mg/kg)						
Gasoline-Range Hydrocarbons	30/100	--	mg/kg	33	< 4.9 U	
Diesel-Range Hydrocarbons	2,000	--	mg/kg	1,300 J	930 J	
Motor Oil-Range Hydrocarbons	2,000	--	mg/kg	6,400 J	2,700 J	
Grain size (%)						
Clay	--	--	%	17	42	
Silt	--	--	%	23	54	
Sand	--	--	%	52	3.5	
Gravel	--	--	%	8.5	0.50	
Cobbles	--	--	%	0.0	0.0	
Conventionals (%)						
Total Organic Carbon	--	--	%	1.5	1.9	
Total Solids	--	--	%	56.2	49.5	

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 Method 1668C (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 X-7. Solids Sample Results Compared to Dry Weight Criteria
Samson Tug and Barge**

Location ID	ST-CB-04A		ST-CB-08	
Collection Date	2/10/2015		2/10/2015	
Analyte	Exceedance Factor		Exceedance Factor	
	SCO/ LAET	CSL/ 2LAET	SCO/ LAET	CSL/ 2LAET
Metals (Total)				
Zinc			1.0	
PCBs				
Total PCB Congeners	3.3		2.0	
PAHs				
Anthracene	2.8			
Benzo(a)anthracene	1.2		1.2	
Chrysene	1.6		1.7	
Fluoranthene	3.5	2.4	1.3	
Fluorene	2.2	1.2		
Phenanthrene	3.6		1.3	
Pyrene	1.9	1.5	1.6	1.2
Total HPAHs	1.6	1.1		
Total LPAHs	1.9			
cPAHs, nd RL*0	1.2		1.0	
cPAHs, nd RL*0.5	1.2		1.0	
cPAHs, nd RL*1	1.2		1.0	
Phthalates				
bis(2-Ethylhexyl)phthalate	2.8	1.9	2.5	1.7
Other SVOCs				
N-Nitrosodiphenylamine	2.0	1.4	2.8	2.0
TPH				
Gasoline-Range Hydrocarbons	1.1			
Motor Oil-Range Hydrocarbons	3.2		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 X-8. Solids Sample Results Compared to
Organic Carbon-Normalized Criteria
Samson Tug and Barge**

Location ID			ST-CB-04A				ST-CB-08			
Collection Date			2/10/2015				2/10/2015			
Analyte	SMS Criteria		Result	EF		Result	EF			
	SCO	CSL		SCO	CSL		SCO	CSL		
PAHs (mg/kg OC)										
2-Methylnaphthalene	38	64	15			5.8				
Acenaphthene	16	57	31 J	1.9		6.3 J				
Acenaphthylene	66	66	4.8 J			2.3 J				
Anthracene	220	1,200	180			29				
Benzo(a)anthracene	110	270	100			79				
Benzo(a)pyrene	99	210	49			31				
Benzo(g,h,i)perylene	31	78	27			17				
Chrysene	110	460	147	1.3		126	1.1			
Dibenz(a,h)anthracene	12	33	8.7			5.3				
Dibenzofuran	15	58	35 J	2.4		12 J				
Fluoranthene	160	1,200	400	2.5		116				
Fluorene	23	79	80	3.5	1.0	13				
Indeno(1,2,3-cd)pyrene	34	88	30			19				
Naphthalene	99	170	10			4.9				
Phenanthrene	100	480	360	3.6		105	1.1			
Pyrene	1,000	1,400	333			216				
Total Benzofluoranthenes	230	450	140			100				
Total HPAHs	960	5,300	1,267	1.3		737				
Total LPAHs	370	780	667 J	1.8		158 J				
Phthalates (mg/kg OC)										
bis(2-Ethylhexyl)phthalate	47	78	240	5.1	3.1	174	3.7	2.2		
Butylbenzylphthalate	4.9	64	< 42 U			< 5.1 U				
Di-n-Butylphthalate	220	1,700	< 59 U			< 51 U				
Diethylphthalate	61	110	< 10 U			< 7.9 U				
Dimethylphthalate	53	53	< 12 UJ			< 10 UJ				
Di-n-Octyl phthalate	58	4,500	12 J			< 51 U				
Other SVOCs (mg/kg OC)										
1,2,4-Trichlorobenzene	0.81	1.8	< 5.9 UJ			< 5.1 UJ				
1,2-Dichlorobenzene	2.3	2.3	< 6.5 U			< 5.8 U				
1,4-Dichlorobenzene	3.1	9	< 5.9 U			< 5.1 U				
Hexachlorobenzene	0.38	2.3	< 5.9 U			< 5.1 U				
Hexachlorobutadiene	3.9	6.2	< 5.9 UJ			< 5.1 UJ				
N-Nitrosodiphenylamine	11	11	3.7 J			4.1 J				
PCB Aroclors (mg/kg OC)										
Total PCB Aroclors	12	65	7.3			3.9				

Only samples with TOC content between 0.5 and 4.0% are OC-normalized for comparison with SMS OC-normalized criteria.

Exceedance Factors (EFs) are presented for detected concentrations that exceed the SMS criteria only.

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 SMS criteria.

Results in **bold** are detections.

Results **shaded gray** exceed at least one criterion.

**Table X-9. Solids Sample Results - PCB Congeners
Samson Tug and Barge**

Location ID	ST-CB-04A	ST-CB-08
Collection Date	2/10/2015	2/10/2015
Analyte	Result	Result
Total PCB Congeners (ng/kg) ^a	426,000 J	264,000 J
Total Monochlorobiphenyl (ng/kg)^a	3,400	255 J
PCB-1	2,570	155
PCB-2	210	< 31.4 U*
PCB-3	622	100 J
Total Dichlorobiphenyl (ng/kg)^a	7,380	1,590 J
PCB-4/10	1,460	152 J
PCB-5/8	2,810	530
PCB-6	772	111 J
PCB-7/9	613	< 109 U
PCB-11	328	204
PCB-12/13	373	< 114 U
PCB-14	< 112 U	< 123 U
PCB-15	1,020	595
Total Trichlorobiphenyl (ng/kg)^a	8,640 J	5,980 J
PCB-16/32	1,130	776
PCB-17	582	395
PCB-18	1,730	1,090
PCB-19	216	173
PCB-20/21/33	1,040	677
PCB-22	521	334
PCB-23	< 28.5 U	< 39.7 U
PCB-24/27	151 J	121 J
PCB-25	< 83.0 U*	84.0 J
PCB-26	286	202
PCB-28	979	649
PCB-29	< 33.8 U	< 47.0 U
PCB-30	< 30.3 U	< 34.3 U
PCB-31	1,350	940
PCB-34	< 32.1 U	< 44.6 U
PCB-35	64.5 J	< 43.7 U
PCB-36	< 40.1 U	< 47.1 U
PCB-37	581	538
PCB-38	< 38.1 U	< 44.9 U
PCB-39	< 41.0 U	< 48.2 U
Total Tetrachlorobiphenyl (ng/kg)^a	51,400 J	28,000 J
PCB-40	728	440
PCB-41/64/71/72	3,770	2,070
PCB-42/59	1,000	579
PCB-43/49	3,590	2,080
PCB-44	6,700	3,430
PCB-45	506	401
PCB-46	186	182
PCB-47	839	462
PCB-48/75	571	284
PCB-50	< 54.3 U	< 51.6 U
PCB-51	< 107 U*	108 J
PCB-52/69	10,400	5,990
PCB-53	583	428
PCB-54	< 43.3 U	< 41.2 U
PCB-55	< 190 U*	122
PCB-56/60	2,970	1,400

**Table X-9. Solids Sample Results - PCB Congeners
Samson Tug and Barge**

Location ID	ST-CB-04A	ST-CB-08
Collection Date	2/10/2015	2/10/2015
Analyte	Result	Result
PCB-57	< 51.7 U	< 46.9 U
PCB-58	< 54.6 U	< 49.6 U
PCB-61/70	11,400	5,650
PCB-62	< 50.3 U	< 47.3 U
PCB-63	186	104 J
PCB-65	< 50.2 U	< 47.2 U
PCB-67	86.9 J	75.7 J
PCB-68	< 45.6 U	< 42.9 U
PCB-73	< 43.3 U	< 43.1 U
PCB-74	2,380	1,270
PCB-76/66	4,600	2,470
PCB-77	458	222
PCB-78	< 44.8 U	< 42.4 U
PCB-79	338	206
PCB-80	< 41.7 U	< 41.0 U
PCB-81	132	< 39.2 U*
Total Pentachlorobiphenyl (ng/kg)^a	164,000 J	94,200 J
PCB-82	3,210	1,820
PCB-83	< 39.6 U	< 72.2 U
PCB-84/92	11,200	6,510
PCB-85/116	3,990	2,290
PCB-86	< 71.4 U	< 130 U
PCB-87/117/125	9,410	5,440
PCB-88/91	3,170	1,940
PCB-89	166	< 83.5 U*
PCB-90/101	28,100	16,300
PCB-93	< 66.9 U	< 118 U
PCB-94	87.0 J	< 94.5 U
PCB-95/98/102	20,200	12,200
PCB-96	148	94.6 J
PCB-97	7,740	4,400
PCB-99	9,310	5,240
PCB-100	< 45.6 U	< 82.4 U
PCB-103	130	81.1 J
PCB-104	< 36.1 U	< 65.3 U
PCB-105	8,530	4,430
PCB-106/118	23,800	12,600
PCB-107/109	1,340	766
PCB-108/112	1,070	645
PCB-110	28,900	17,600
PCB-111/115	396	235 J
PCB-113	< 39.9 U	< 67.6 U
PCB-114	477	268
PCB-119	403	243
PCB-120	80.9 J	51.2 J
PCB-121	< 34.9 U	< 61.8 U
PCB-122	225	127
PCB-123	417	199
PCB-124	943	579
PCB-126	136	126
PCB-127	< 63.8 U	< 55.5 U

**Table X-9. Solids Sample Results - PCB Congeners
Samson Tug and Barge**

Location ID	ST-CB-04A	ST-CB-08
Collection Date	2/10/2015	2/10/2015
Analyte	Result	Result
Total Hexachlorobiphenyl (ng/kg)^a	124,000 J	81,700 J
PCB-128/162	4,710	2,880
PCB-129	1,810	999
PCB-130	1,660	1,170
PCB-131	< 121 U	< 102 U
PCB-132/161	8,860	5,810
PCB-133/142	936	617
PCB-134/143	1,730	1,100
PCB-135	3,360	1,980
PCB-136	3,200	2,050
PCB-137	1,620	997
PCB-138/163/164	27,400	17,900
PCB-139/149	23,100	15,500
PCB-140	< 101 U	< 139 U
PCB-141	5,410	3,710
PCB-144	1,470	976
PCB-145	< 60.7 U	< 83.5 U
PCB-146/165	3,220	2,180
PCB-147	442	258
PCB-148	< 97.9 U	< 135 U
PCB-150	< 73.0 U	< 100 U
PCB-151	5,770	4,140
PCB-152	< 65.3 U	< 89.9 U
PCB-153	21,100	14,400
PCB-154	< 268 U*	158
PCB-155	< 65.4 U	< 90.1 U
PCB-156	3,010	1,710
PCB-157	666	362
PCB-158/160	3,360	2,050
PCB-159	< 89.0 U	< 80.5 U
PCB-166	114	78.1 J
PCB-167	1,100	696
PCB-168	< 76.1 U	< 64.0 U
PCB-169	< 90.2 U	< 77.1 U
Total Heptachlorobiphenyl (ng/kg)^a	51,700 J	39,500 J
PCB-170	6,500	4,430
PCB-171	1,580	1,180
PCB-172	881	676
PCB-173	229	119
PCB-174	6,720	5,010
PCB-175	246	232
PCB-176	803	599
PCB-177	3,790	2,920
PCB-178	1,300	946
PCB-179	2,940	2,140
PCB-180	15,000	11,700
PCB-181	< 45.0 U	< 55.7 U
PCB-182/187	7,010	5,200
PCB-183	3,430	2,560
PCB-184	< 30.7 U	< 33.8 U
PCB-185	589	497
PCB-186	< 34.4 U	< 37.9 U



**Table X-9. Solids Sample Results - PCB Congeners
Samson Tug and Barge**



Location ID	ST-CB-04A	ST-CB-08
Collection Date	2/10/2015	2/10/2015
Analyte	Result	Result
PCB-188	< 31.6 U	< 34.9 U
PCB-189	< 214 U*	< 185 U*
PCB-190	< 1,140 U*	834
PCB-191	< 222 U*	< 180 U*
PCB-192	< 35.7 U	< 44.1 U
PCB-193	710	493
Total Octachlorobiphenyl (ng/kg)^a	13,300 J	10,200 J
PCB-194	2,950	2,090
PCB-195	1,280	826
PCB-196/203	3,710	3,120
PCB-197	< 143 U*	134
PCB-198	228	< 109 U
PCB-199	3,380	2,660
PCB-200	447	328
PCB-201	487	356
PCB-202	704	621
PCB-204	< 71.5 U	< 72.6 U
PCB-205	142	90.5 J
Total Nonachlorobiphenyl (ng/kg)^a	1,960	1,860
PCB-206	1,400	1,330
PCB-207	194	153
PCB-208	366	378
Decachlorobiphenyl (ng/kg)	554	530
PCB-209	554	530
PCB TEQ, nd SDL*0	14.8 J	13.2 J
PCB TEQ, nd SDL*0.5	16.2 J	14.4 J
PCB TEQ, nd SDL*1	17.5 J	15.6 J



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



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 X-1
Inspection Photographic Log

Conveyance Structure Information	
Structure Identification Number: ST-CB-04A	N↗ 
Structure Type: Catch Basin	
General Location: Southwest area of facility	
Characteristics: Filter sock	
Pump Capacity (gpm): --	
Design Storm: --	
Access: Manhole Grate	
Volume Gauge: --	
Sample ID: ST-CB-04A-20150210-S	
Drainage Information:	
Catch basin CB-04A is located upstream from the facility's treatment system at the southwest corner of the property. The catch basin receives stormwater from the central and southern portion of the facility prior to being pumped to the stormwater treatment system.	N↙ 

Conveyance Structure Information	
Structure Identification Number: ST-CB-08	<p>N →</p> 
Structure Type: Catch Basin	
General Location: Northwest area of facility	
Characteristics: 6.5" water, 3.5' deep, 2' solids	
Pump Capacity (gpm): --	
Design Storm: --	
Access: Catch Basin Grate	
Volume Gauge: --	
Sample ID: SB-CB-08-20150210-S	
Drainage Information:	
<p>Catch basin CB-08 is located at the northwest portion of the facility. The location receives stormwater from the eastern portion of the facility. The area surrounding the catch basin was unpaved and water in the catch basin was highly turbid.</p>	<p>N ↑</p> 

Conveyance Structure Information	
Structure Identification Number: ST-OF-01	N↖ 
Structure Type: Outfall	
General Location: Southwest area of facility	
Characteristics: ~8" Steel pipe	
Pump Capacity (gpm): --	
Design Storm: --	
Access: Manhole Grate	
Volume Gauge: --	
Sample ID: ST-OF-01-20150210-W	
Drainage Information:	
<p>Outfall OF-01 is located at the southwest area of the facility. The outfall receives stormwater from the treatment system and discharges directly to the LDW. During the inspection, a low flow of turbid water was observed discharging from the outfall.</p>	N→ 

Conveyance Structure Information	
Structure Identification Number: ST-TS-01	 A photograph showing several large blue cylindrical industrial tanks or pumps arranged in a row. They are situated outdoors on a gravel surface. In the background, there are green metal structures and other industrial equipment. A person in a yellow safety vest is partially visible on the left side of the frame.
Structure Type: Treatment System	
General Location: Southwest area of facility	
Characteristics:	
Pump Capacity (gpm): --	
Design Storm: --	
Access: --	
Volume Gauge: --	
Sample ID: ST-TS-01-20150210-W	
Drainage Information:	
<p>The treatment system TS-01 is located at the southwest corner of the property. The treatment system receives stormwater from the central and southern portion of the property. After treatment, stormwater is discharged to the LDW through outfall OF-01.</p>	 A photograph showing a water discharge area. In the foreground, there is a body of water with some reeds and grasses. In the background, there are industrial structures, including a large green metal tank and a blue pump. A crane is visible on the left side of the frame.

Attachment X-2
Field Documentation

Location 6361 1st Ave. South

Date 2/10/15

67

Project / Client NPDES/Ecology

* Reminder: Dup for water today if possible. *

C. Wilson stop for ice

C. Wilson arrive @ Storage unit

0700 C. Nancarrow, J. Wallin arrive @ Storage unit

0701 Prep supplies for the day, load truck.

0756 Completed loading truck and departed storage unit.

0800 Stop by Tully's to use restroom

0806 Depart Tully's for site.

0819 Arrive at site; on standby waiting for Ecy
Call from M. Mann; ho's at Pond

~~0816~~ 0845 Conduct health and safety
prior to entering site
Met with Rich of Sisson Tug and
Barge

0910 Go on site w/ escort to treatment
system along LDW bank

Treatment system operational but
outfall is below water surface

Plan to collect effluent from sample
port on treatment system and solids

Sample at C804A

Out/TW mob to truck located off site to prep
sample equipment + label bottles.

Location 6361 1st Ave S Date 2/10/15
 Project / Client NPDES/ECY

CW/ECY conduct site inspection. Visually observed the following locations

- ① CB-05 adjacent to ECV blocks, N of ramp
open grate, covered in mud
- ② CB-06 under mud puddle, Kirk noted
CB may be covered w/ plywood &
rocks
- ③ CB-07 under chain planks; once moved,
covered in puddle, unconfirmed.
Wholly open grate, no insert
Observed OUT2, cap visible
- ④ CB-08 no outlet, pump present.
6" water, 3.5' deep
2' Sids

Sample team ready w/ bottles; ECY + CW
mob offsite to Leidos truck.

On standby waiting for crane operator
to put up boom/relocate to gain
access to CB-04A.

MOB onsite

Location 6361 1st Ave S Date 2/10/15
 Project / Client NPDES/ECY

Setup at CB-04A

Probe CB-04A to confirm solids.

Setup sample table, bottle sets.

1129

~~1150~~ ¹¹⁵⁰ 1155 ST-FD-02-20150210-W and
ST-TS-01-20150210-W attempted
to collect ~~for~~; but effluent
is not discharging.
TS-eff sample on hold

1151 ST-CB-04A-20150210-S collected.

ECY offsite for lunch

1227 Close up CB; decon equip.

1324 MOB houtfall

1334 Outfall sampled

1352 turbidity measurement
473 NTU

sample had a sheen

1401 Tint system turned on - eff collected

ST-FD-02-20150210-W collected
 ST-TS-01-2015 0210-W
 Dye test. CB-3 went to outfall
 Turbidity > 1000 NTU
 Calv 48.7 cal → 48.4 ok
 4.98 cal → 4.88 ok
 546 cal → 540 ok
 Turbidity > 1000 NTU

Dye test #2 to wet well
 MOB to CB-08
 Set up at CB-08
 Collected solids sample from
 ST-CB-08-20150210-S
 Clean up site; close out w/ ECY.
 Htow MOB to truck wash;
 hose for shoes (st boots).
 MOB offsite to storage unit
 Arrive storage unit
 Unload truck
 Finish unloading truck
 MOB from storage unit


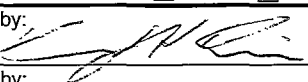
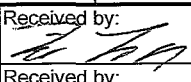
0700 Purchase Ice and Ziplocks
 0720 Arrive at Storage unit
 0730 QA/QC samples + labels from
 Samson Tug on 2/10/15
 Update sample labels for
 ST-TS-01 and ST-FD-02 for time
 1700 Update some labels for
 ST-OF-01 for time 1343
 0830 Complete QC + figs COCs
 0900 Relinquish samples to Paco w/
 Test America
 0930 Depart Storage unit to Relinquish
~~Fed ex~~ Vista Samples at
 Fed ex on 2/11/2015

Handwritten signature and date 2/11/15

Attachment X-3
Chain of Custody Forms

Regulatory Program: DW NPDES RCRA Other:

47459

Client Contact		Project Manager: Christine Nancarrow				Site Contact: Melissa Ivancevich				Date: 2/11/15				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 <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below 3 Weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day				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 SM2640B) TPH-Gasoline (NWTPH-Gx) VOCs (EPA 8260B) TOC (Plumb1981/9060) Particle Size (PSEP_Plumb1981)				Sampler: CW/CN/JV For Lab Use Only: Walk-in Client: Lab Sampling:				Job / SDG No.:	
Bothell, WA 98011															
425.398.2101 Phone		ST-CB-08-20150210-S		2/10/15	1538	G	Sed	6	X	X	X	X	X	X	-1
425.485.5566 FAX		ST-CB-04A-20150210-S		2/10/15	1151	G	Sed	6	X	X	X	X	X	X	-2
Project Name: NPDES Sampling Support															
Site: Lower Duwamish Waterway															
P O # P010163427															
 580-47459 Chain of Custody		Cooler/TB Dig/IR cor 4.2°C unc 4.7°C Cooler Dsc Lc Blue/whk@Lab 0935 Wet/Packs Packing Bubble w/cs													
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other MeOH		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months													
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. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown		Special Instructions/QC Requirements & Comments:													
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:				Cooler Temp. (°C): Obs'd: _____				Corr'd: _____				Therm ID No.:	
Relinquished by: 		Company: Leidos		Date/Time: 2/11/15 0900		Received by: 		Company: TASEA		Date/Time: 2/11/15 0900					
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:					
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:					

Regulatory Program: DW NPDES RCRA Other:

47459

Client Contact Leidos 18912 N Creek Pkwy, Ste. 101 Bothell, WA 98011 425.398.2101 Phone 425.485.5566 FAX Project Name: NPDES Sampling Support Site: Lower Duwamish Waterway P O # P010163427		Project Manager: Christine Nancarrow Tel/Fax: 206.300.2144		Site Contact: Melissa Ivancevich Lab Contact: Kris Allen		Date: 2/11/15 Carrier: Courier		COC No.: 2 of 2 COCs Sampler: SM CW/LN/JV													
		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below 3 Weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day								For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.: Sample Specific Notes:											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	S/OCs (Method 8270D)	Metals (Method 200.87470A)	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)	Salinity			
ST-TS-01-20150210-W		2/10/15	1408	G	W	9	N	X	X		X	X	X	X	X	X	X			-3	
ST-FD-02-20150210-W		2/10/15	1408	G	W	9		X	X		X	X	X	X	X	X	X			-4	
ST-OF-01-20150210-W		2/10/15	1334	G	W	8		X	X		X	X	X	X	X	X	X			See Comment ① -5	
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. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months														
Special Instructions/QC Requirements & Comments: ① If possible, please pull additional sample volume from 1 L poly bottle to run analysis for salinity. This sample set is missing 1-250ml poly bottle. Please contact Christine Nancarrow w/ questions.																					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:				Cooler Temp. (°C): Obs'd: _____				Corr'd: _____				Therm ID No.: _____							
Relinquished by:		Company: Leidos		Date/Time: 2/11/15 0900		Received by:				Company: TASEH		Date/Time: 2/11/15 0900									
Relinquished by:		Company:		Date/Time:		Received by:				Company:		Date/Time:									
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:				Company:		Date/Time:									



CHAIN OF CUSTODY

FOR LABORATORY USE ONLY Storage Secured Yes No

Laboratory Project ID: 1500166 Storage ID: WR2 Temp: _____ °C

Project I.D.: 1400647 P.O.# P010163569 Sampler: Christine Nancarrow
(Name)

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

Invoice to: Name Christine Nancarrow Company Leidas Address 18912 N Creek Pkwy City Bothell State WA Zip 98011 Ph# 480 773 0744 Fax# _____

Relinquished by: (Signature and Printed Name) [Signature] Date: 2/11/15 Time: 1000 Received by: (Signature and Printed Name) Dimitri D. Benedict Date: 02/12/15 Time: 0915

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

Method of Shipment: Fed ex

ATTN: Sample Receiving

Tracking No.: _____

Add Analysis(es) Requested

Quantity	Type	Matrix	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	2378-TCDD	2378-TCDD/TCDF	TOTALS	COPLANAR PCB's	209 CONGENERS	PBDE	PAH	WHO-29			
----------	------	--------	-----------	----------------	-----------	-----------	----------------	-----------	----------------	--------	----------------	---------------	------	-----	--------	--	--	--

Sample ID	Date	Time	Location/Sample Description	Quantity	Type	Matrix	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	2378-TCDD	2378-TCDD/TCDF	TOTALS	COPLANAR PCB's	209 CONGENERS	PBDE	PAH	WHO-29	
ST-TS-01-20150210-W	2/10/15	1408	Treat System Eff	4	A	AQ	✓							✓	✓					
ST-FD-02-20150210-W	2/10/15	1408	"	4	A	AQ	✓							✓	✓					
ST-OF-01-20150210-W	2/10/15	1334	Outfall Eff	4	A	AQ	✓							✓	✓					
ST-CB-08-20150210-S	2/10/15	1538	Catch Basin Sed	1	G	SD	✓							✓	✓					
ST-CB-04A-20150210-S	2/10/15	1151	"	1	G	SD	✓							✓	✓					

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:

Name: _____
Company: SAME AS ABOVE
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____
Email: _____

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

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

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

WHITE - ORIGINAL

YELLOW - ARCHIVE

PINK - COPY

Attachment X-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: 580-47459-1

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:
3/23/2015 11:02:02 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

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

TestAmerica Job ID: 580-47459-1

Job ID: 580-47459-1

Laboratory: TestAmerica Seattle

Narrative

Comments

No additional comments.

Receipt

The samples were received on 2/11/2015 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.6° C and 4.2° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 182692 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 following samples were reanalyzed due to QC failures for 4-methyl-2-pentanone (MIBK) during the original analysis. Results are reported for MIBK from the reanalysis. ST-CB-04A-20150210-S (580-47459-2), ST-CB-08-20150210-S (580-47459-1).

Method(s) 8260B: The following sample was re-analyzed in analytical batch 184769 for 4-methyl-2-pentanone (MIBK) due to the laboratory control spike (LCS) failing method criteria, biased high, in the initial analysis: ST-CB-08-20150210-S (580-47459-1). Toluene-d8 surrogate in the sample re-analysis recovered above method criteria by 2%. Due having no remaining sample volume available for further analysis, the re-analysis has been reported as primary for this compound, and the initial analysis in batch 182692 reported as secondary.

Method(s) NWTPH-Gx: The method blank for batch 182404 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 batch 182776 recovered above the upper control limit for 2,4-Dinitrophenol. 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 580-182776/3).

Method(s) 8270D: The method blank for batch 182776 contained Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate and Diethyl phthalate 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) 8270D: Multiple analyte(s) recovered outside control limits for the LCS/LCSD associated with prep batch 182433, analysis batch 182776. These analytes were outside the Marginal Exceedance Limits; therefore, re-extraction and/or re-analysis was performed outside of holding time. Both sets of data have been qualified and reported. Affected samples: (580-47459-1 MS), (580-47459-1 MSD), (LCS 580-182433/2-A), (LCSD 580-182433/3-A), ST-CB-04A-20150210-S (580-47459-2), ST-CB-08-20150210-S (580-47459-1).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 182836 recovered above the upper control limit for 2-Nitroaniline, 4-Nitroaniline, 2,4-Dinitrophenol and Benzoic Acid. The samples associated with this CCV were below the reporting limit (RL) for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 580-182836/3), (LCS 580-182612/2-A), (LCSD 580-182612/3-A), (MB 580-182612/1-A), ST-0F-01-20150210-W (580-47459-5), ST-FD-02-20150210-W (580-47459-4), ST-TS-01-20150210-W (580-47459-3).

Method(s) 8270D: The following analytes recovered below control limits for the LCS and LCSD associated with batch 182612: 3,3'-Dichlorobenzidine, Anthracene, 4-Chloroaniline and Benzo(a)pyrene. These random marginal exceedances do not indicate a systematic control problem. The method and lab SOP allow four marginal exceedances when a full list spike is evaluated. 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 182612 recovered outside control limits for the following analytes: Bis(2-ethylhexyl)phthalate, 3,3'-Dichlorobenzidine, 3-Nitroaniline

Case Narrative

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and 4-Chloroaniline.

Method(s) 8270D: The continuing calibration verification (CCV) associated with analytical batch 183363 recovered above the upper control limit for 4-Chloroaniline. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. Affected samples: (580-47345-4 MS), (580-47345-4 MSD), (CCVIS 580-183363/3), (LCS 580-183304/2-A), (LCSD 580-183304/3-A), (MB 580-183304/1-A), ST-CB-04A-20150210-S (580-47459-2), ST-CB-08-20150210-S (580-47459-1).

Method(s) 8270D: The continuing calibration verification (CCV) associated with analytical batch 183363 failed RF criteria for Nitrobenzene, Isophorone, 4-Chloro-3-methylphenol, N-Nitrosodi-n-propylamine and Bis(2-chloroethoxy)methane. 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 183304 contained Diethyl phthalate 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) 8270D: Phenanthrene recovered outside control limits for the LCS associated with prep batch 183304. In addition, the LCSD exceeded the control limits for Benzoic acid and Chrysene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: ST-0F-01-20150210-W (580-47459-5), ST-FD-02-20150210-W (580-47459-4), ST-TS-01-20150210-W (580-47459-3). Elevated reporting limits (RLs) are provided.

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

HPLC/IC

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

GC Semi VOA

Method(s) NWTPH-Dx: In analysis batch 182566, for the following sample(s) from preparation batch 182463: 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: ST-CB-04A-20150210-S (580-47459-2), ST-CB-08-20150210-S (580-47459-1).

Method(s) NWTPH-Dx: Surrogate recovery for the following sample(s) was outside control limits: (580-47459-1 MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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.

Organic Prep

Method(s) 3546: In preparation batch 182463, the following samples: (580-47459-1 MS), (580-47459-1 MSD), ST-CB-04A-20150210-S (580-47459-2), ST-CB-08-20150210-S (580-47459-1), contained a significant amount of water.

Method(s) 3546: In preparation batch 182463, the matrix spike (MS) for the following sample: (580-47459-1 MS), was spilled during the pouring process. Approximately 5mL of extract was lost during this step.

Method(s) 3550B: The following samples from preparation batch 183304 were re-prepared outside of preparation holding time due to low failing recoveries in the LCS and LCSD batch QC samples : ST-CB-04A-20150210-S (580-47459-2), ST-CB-08-20150210-S

Case Narrative

Client: Leidos, Inc.
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Laboratory: TestAmerica Seattle (Continued)

(580-47459-1).

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

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Definitions/Glossary

Client: Leidos, Inc.
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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
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
*	RPD of the LCS and LCSD exceeds the 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.
F1	MS and/or MSD Recovery exceeds the control limits
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds 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.
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.

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

TestAmerica Seattle

Definitions/Glossary

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

TestAmerica Job ID: 580-47459-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-08-20150210-S

Lab Sample ID: 580-47459-1

Date Collected: 02/10/15 15:38

Matrix: Solid

Date Received: 02/11/15 09:00

Percent Solids: 49.5

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	0.60	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,1,1-Trichloroethane	ND		1.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,1,2,2-Tetrachloroethane	ND		3.0	1.4	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.5	0.30	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,1,2-Trichloroethane	ND	*	3.0	0.75	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,1-Dichloroethane	ND		1.5	0.60	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,1-Dichloroethene	ND		7.5	0.30	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,1-Dichloropropene	ND		1.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,2,3-Trichlorobenzene	ND		3.0	0.90	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,2,3-Trichloropropane	ND	*	1.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,2,4-Trichlorobenzene	ND		3.0	0.60	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,2,4-Trimethylbenzene	ND		3.0	0.60	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,2-Dibromo-3-Chloropropane	ND	*	3.0	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,2-Dibromoethane	ND	*	1.5	0.30	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,2-Dichlorobenzene	ND		3.0	0.90	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,2-Dichloroethane	ND	*	1.5	0.60	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,2-Dichloropropane	ND		1.5	0.60	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,3,5-Trimethylbenzene	ND		7.5	0.75	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,3-Dichlorobenzene	ND		3.0	0.75	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,3-Dichloropropane	ND	*	3.0	0.75	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
1,4-Dichlorobenzene	ND		1.5	0.30	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
2,2-Dichloropropane	ND		7.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
2-Butanone	26		15	4.5	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
2-Chloroethyl vinyl ether	ND		7.5	2.1	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
2-Chlorotoluene	ND		3.0	0.75	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
2-Hexanone	ND	*	7.5	0.75	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
4-Chlorotoluene	ND		3.0	0.75	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
4-Isopropyltoluene	31		3.0	0.60	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
4-Methyl-2-pentanone	15	*	7.5	2.3	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Acetone	71		23	3.6	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Acrolein	ND		45	12	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Acrylonitrile	ND	*	15	4.2	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Benzene	ND		1.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Bromobenzene	ND	*	3.0	0.75	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Bromochloromethane	ND	*	3.0	0.75	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Bromodichloromethane	ND	*	1.5	0.60	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Bromoform	ND		1.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Bromomethane	ND		1.5	0.60	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Carbon disulfide	0.39	J	1.5	0.30	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Carbon tetrachloride	ND		1.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Chlorobenzene	ND		1.5	0.60	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Chlorodibromomethane	ND		3.0	0.75	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Chloroethane	ND		1.5	0.30	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Chloroform	ND	*	1.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Chloromethane	ND		1.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
cis-1,2-Dichloroethene	ND		1.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
cis-1,3-Dichloropropene	ND		1.5	0.30	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Dibromomethane	ND	*	1.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Dichlorodifluoromethane	ND		1.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-08-20150210-S

Lab Sample ID: 580-47459-1

Date Collected: 02/10/15 15:38

Matrix: Solid

Date Received: 02/11/15 09:00

Percent Solids: 49.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.5	0.60	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Hexachloro-1,3-butadiene	ND		3.0	0.90	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Iodomethane	ND		23	0.30	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Isopropylbenzene	ND		3.0	0.30	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Methyl tert-butyl ether	ND	*	1.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Methylene Chloride	ND		23	4.5	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
m-Xylene & p-Xylene	0.89	J	3.0	0.30	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Naphthalene	0.82	J	7.5	0.75	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
n-Butylbenzene	ND		3.0	0.30	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
N-Propylbenzene	ND		3.0	0.75	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
o-Xylene	ND		3.0	0.75	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
sec-Butylbenzene	ND		3.0	0.75	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Styrene	ND		3.0	0.30	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
tert-Butylbenzene	ND		3.0	0.30	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Tetrachloroethene	ND		1.5	0.60	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Toluene	ND		3.0	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
trans-1,2-Dichloroethene	ND		1.5	0.60	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
trans-1,3-Dichloropropene	ND		1.5	0.30	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
trans-1,4-Dichloro-2-butene	ND		7.5	2.6	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Trichloroethene	ND		1.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Trichlorofluoromethane	ND		1.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Vinyl acetate	ND		7.5	0.90	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1
Vinyl chloride	ND		1.5	0.45	ug/Kg	☼	02/11/15 09:40	02/18/15 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		71 - 136	02/11/15 09:40	02/18/15 13:49	1
4-Bromofluorobenzene (Surr)	99		70 - 120	02/11/15 09:40	02/18/15 13:49	1
Dibromofluoromethane (Surr)	98		75 - 132	02/11/15 09:40	02/18/15 13:49	1
Toluene-d8 (Surr)	103		80 - 120	02/11/15 09:40	02/18/15 13:49	1
Trifluorotoluene (Surr)	97		65 - 140	02/11/15 09:40	02/18/15 13:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	26		7.7	2.3	ug/Kg	☼	02/11/15 09:40	02/19/15 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		71 - 136	02/11/15 09:40	02/19/15 13:48	1
4-Bromofluorobenzene (Surr)	73		70 - 120	02/11/15 09:40	02/19/15 13:48	1
Dibromofluoromethane (Surr)	92		75 - 132	02/11/15 09:40	02/19/15 13:48	1
Toluene-d8 (Surr)	122	X	80 - 120	02/11/15 09:40	02/19/15 13:48	1
Trifluorotoluene (Surr)	89		65 - 140	02/11/15 09:40	02/19/15 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*	97	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
1,2-Dichlorobenzene	ND	*	110	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
1,3-Dichlorobenzene	ND	*	97	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
1,4-Dichlorobenzene	ND	*	97	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
1-Methylnaphthalene	52	J *	58	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
2,2'-oxybis[1-chloropropane]	ND		490	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-08-20150210-S

Lab Sample ID: 580-47459-1

Date Collected: 02/10/15 15:38

Matrix: Solid

Date Received: 02/11/15 09:00

Percent Solids: 49.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
2,4,6-Trichlorophenol	ND		290	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
2,4-Dichlorophenol	ND		190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
2,4-Dimethylphenol	ND		190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
2,4-Dinitrophenol	ND	^	1900	390	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
2,4-Dinitrotoluene	ND		190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
2,6-Dinitrotoluene	ND		190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
2-Chloronaphthalene	ND	*	39	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
2-Chlorophenol	ND	*	190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
2-Methylnaphthalene	110	*	39	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
2-Methylphenol	ND	*	190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
2-Nitroaniline	ND		190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
2-Nitrophenol	ND	*	190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
3 & 4 Methylphenol	160	J *	390	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
3,3'-Dichlorobenzidine	ND		390	58	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
3-Nitroaniline	ND		190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
4,6-Dinitro-2-methylphenol	ND		1900	190	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
4-Bromophenyl phenyl ether	ND		190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
4-Chloro-3-methylphenol	ND		190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
4-Chloroaniline	ND		190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
4-Chlorophenyl phenyl ether	ND	*	190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
4-Nitroaniline	ND		190	39	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
4-Nitrophenol	ND		1900	490	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Acenaphthene	120	*	39	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Acenaphthylene	44	*	39	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Anthracene	550		39	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Benzo[a]anthracene	1500		39	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Benzo[a]pyrene	590		58	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Benzo[b]fluoranthene	1400		39	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Benzo[g,h,i]perylene	330		49	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Benzo[k]fluoranthene	530		49	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Benzoic acid	ND		4900	1500	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Benzyl alcohol	ND		190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Bis(2-chloroethoxy)methane	ND	*	190	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Bis(2-chloroethyl)ether	ND	*	190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Bis(2-ethylhexyl) phthalate	3300	B	1200	97	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Butyl benzyl phthalate	97	J B	390	97	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Carbazole	120	J	190	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Chrysene	2400		49	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Dibenz(a,h)anthracene	100		78	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Dibenzofuran	220	*	190	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Diethyl phthalate	150	J B	390	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Dimethyl phthalate	ND	*	190	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Di-n-butyl phthalate	ND		970	97	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Di-n-octyl phthalate	ND		970	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Fluoranthene	2200		39	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Fluorene	240	*	39	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Hexachlorobenzene	ND		97	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Hexachlorobutadiene	ND	*	97	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-08-20150210-S

Lab Sample ID: 580-47459-1

Date Collected: 02/10/15 15:38

Matrix: Solid

Date Received: 02/11/15 09:00

Percent Solids: 49.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		190	19	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Hexachloroethane	ND	*	190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Indeno[1,2,3-cd]pyrene	360		78	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Isophorone	ND	*	190	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Naphthalene	93		39	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Nitrobenzene	ND	*	190	66	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
N-Nitrosodimethylamine	ND		1900	490	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
N-Nitrosodi-n-propylamine	ND		190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
N-Nitrosodiphenylamine	78 J		97	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Pentachlorophenol	ND		390	39	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Phenanthrene	2000		39	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Phenol	ND	*	190	29	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10
Pyrene	4100		39	9.7	ug/Kg	☼	02/13/15 08:23	02/19/15 12:14	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		28 - 143	02/13/15 08:23	02/19/15 12:14	10
2-Fluorobiphenyl	85		42 - 140	02/13/15 08:23	02/19/15 12:14	10
2-Fluorophenol	70		36 - 145	02/13/15 08:23	02/19/15 12:14	10
Nitrobenzene-d5	62		38 - 141	02/13/15 08:23	02/19/15 12:14	10
Phenol-d5	68		38 - 149	02/13/15 08:23	02/19/15 12:14	10
Terphenyl-d14	97		42 - 151	02/13/15 08:23	02/19/15 12:14	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	100	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
1,2-Dichlorobenzene	ND	H	110	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
1,3-Dichlorobenzene	ND	H	100	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
1,4-Dichlorobenzene	ND	H	100	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
1-Methylnaphthalene	34 J H		60	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
2,2'-oxybis[1-chloropropane]	ND	H	500	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
2,4,5-Trichlorophenol	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
2,4,6-Trichlorophenol	ND	H	300	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
2,4-Dichlorophenol	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
2,4-Dimethylphenol	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
2,4-Dinitrophenol	ND	H	2000	400	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
2,4-Dinitrotoluene	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
2,6-Dinitrotoluene	65 J H		200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
2-Chloronaphthalene	ND	H	40	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
2-Chlorophenol	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
2-Methylnaphthalene	100 H		40	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
2-Methylphenol	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
2-Nitroaniline	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
2-Nitrophenol	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
3 & 4 Methylphenol	180 J H		400	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
3,3'-Dichlorobenzidine	ND	H	400	60	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
3-Nitroaniline	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
4,6-Dinitro-2-methylphenol	ND	H	2000	200	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
4-Bromophenyl phenyl ether	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
4-Chloro-3-methylphenol	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
4-Chloroaniline	ND	H ^	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-08-20150210-S

Lab Sample ID: 580-47459-1

Date Collected: 02/10/15 15:38

Matrix: Solid

Date Received: 02/11/15 09:00

Percent Solids: 49.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
4-Nitroaniline	ND	H	200	40	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
4-Nitrophenol	ND	H	2000	500	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Acenaphthene	150	H	40	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Acenaphthylene	58	H	40	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Anthracene	620	H	40	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Benzo[a]anthracene	1700	H	40	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Benzo[a]pyrene	700	H	60	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Benzo[b]fluoranthene	1800	H	40	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Benzo[g,h,i]perylene	390	H	50	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Benzo[k]fluoranthene	800	H	50	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Benzoic acid	ND	H *	5000	1500	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Benzyl alcohol	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Bis(2-chloroethoxy)methane	ND	H	200	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Bis(2-chloroethyl)ether	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Bis(2-ethylhexyl) phthalate	4500	H	1200	100	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Butyl benzyl phthalate	ND	H	400	100	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Carbazole	110	J H	200	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Chrysene	2900	* H	50	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Dibenz(a,h)anthracene	130	H	80	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Dibenzofuran	240	H	200	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Diethyl phthalate	75	J H B	400	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Dimethyl phthalate	27	J H	200	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Di-n-butyl phthalate	ND	H	1000	100	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Di-n-octyl phthalate	110	J H	1000	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Fluoranthene	3100	H	40	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Fluorene	240	H	40	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Hexachlorobenzene	ND	H	100	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Hexachlorobutadiene	ND	H	100	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Hexachlorocyclopentadiene	ND	H	200	20	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Hexachloroethane	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Indeno[1,2,3-cd]pyrene	500	H	80	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Isophorone	ND	H	200	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Naphthalene	120	H	40	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Nitrobenzene	ND	H	200	68	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
N-Nitrosodimethylamine	ND	H	2000	500	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
N-Nitrosodi-n-propylamine	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
N-Nitrosodiphenylamine	64	J H	100	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Pentachlorophenol	170	J H	400	40	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Phenanthrene	1000	H *	40	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Phenol	ND	H	200	30	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Pyrene	3800	H	40	10	ug/Kg	☼	02/26/15 14:48	02/27/15 12:20	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		28 - 143				02/26/15 14:48	02/27/15 12:20	10
2-Fluorobiphenyl	100		42 - 140				02/26/15 14:48	02/27/15 12:20	10
2-Fluorophenol	87		36 - 145				02/26/15 14:48	02/27/15 12:20	10
Nitrobenzene-d5	85		38 - 141				02/26/15 14:48	02/27/15 12:20	10
Phenol-d5	74		38 - 149				02/26/15 14:48	02/27/15 12:20	10
Terphenyl-d14	106		42 - 151				02/26/15 14:48	02/27/15 12:20	10

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-08-20150210-S

Lab Sample ID: 580-47459-1

Date Collected: 02/10/15 15:38

Matrix: Solid

Date Received: 02/11/15 09:00

Percent Solids: 49.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	4.9	J B	9.9	1.2	mg/Kg	☼	02/12/15 15:11	02/12/15 20:44	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	99		50 - 150				02/12/15 15:11	02/12/15 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.020	0.0064	mg/Kg	☼	02/20/15 08:00	02/20/15 19:31	1
Arochlor 1221	ND		0.022	0.016	mg/Kg	☼	02/20/15 08:00	02/20/15 19:31	1
Arochlor 1232	ND		0.022	0.014	mg/Kg	☼	02/20/15 08:00	02/20/15 19:31	1
Arochlor 1242	ND		0.020	0.0042	mg/Kg	☼	02/20/15 08:00	02/20/15 19:31	1
Arochlor 1248	ND		0.020	0.0060	mg/Kg	☼	02/20/15 08:00	02/20/15 19:31	1
Arochlor 1254	ND		0.020	0.0042	mg/Kg	☼	02/20/15 08:00	02/20/15 19:31	1
Arochlor 1260	0.074		0.020	0.0060	mg/Kg	☼	02/20/15 08:00	02/20/15 19:31	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Tetrachloro-m-xylene	85		45 - 135				02/20/15 08:00	02/20/15 19:31	1
DCB Decachlorobiphenyl	67		50 - 140				02/20/15 08:00	02/20/15 19:31	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)	930	Y	50	11	mg/Kg	☼	02/13/15 10:52	02/17/15 11:24	1
Motor Oil (>C24-C36)	2700	Y	99	18	mg/Kg	☼	02/13/15 10:52	02/17/15 11:24	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl	64		50 - 150				02/13/15 10:52	02/17/15 11:24	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		0.77	0.28	mg/Kg	☼	02/12/15 11:35	02/12/15 14:29	10
Lead	78		0.77	0.074	mg/Kg	☼	02/12/15 11:35	02/12/15 14:29	10
Antimony	4.6		0.31	0.065	mg/Kg	☼	02/12/15 11:35	02/12/15 14:29	10
Beryllium	0.32		0.31	0.054	mg/Kg	☼	02/12/15 11:35	02/12/15 14:29	10
Cadmium	0.43		0.31	0.029	mg/Kg	☼	02/12/15 11:35	02/12/15 14:29	10
Chromium	42		0.77	0.097	mg/Kg	☼	02/12/15 11:35	02/12/15 14:29	10
Copper	100		0.62	0.15	mg/Kg	☼	02/12/15 11:35	02/12/15 14:29	10
Nickel	35		0.77	0.12	mg/Kg	☼	02/12/15 11:35	02/12/15 14:29	10
Selenium	1.1	J	1.5	0.31	mg/Kg	☼	02/12/15 11:35	02/12/15 14:29	10
Silver	0.15	J	0.31	0.018	mg/Kg	☼	02/12/15 11:35	02/12/15 14:29	10
Thallium	ND		0.62	0.20	mg/Kg	☼	02/12/15 11:35	02/12/15 14:29	10
Zinc	430		7.7	1.7	mg/Kg	☼	02/12/15 11:35	02/12/15 14:29	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.032	0.0095	mg/Kg	☼	02/12/15 16:58	02/13/15 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	50		0.10	0.10	%			02/12/15 11:12	1
Total Organic Carbon	19000		2000	44	mg/Kg			02/18/15 15:01	1

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-08-20150210-S

Lab Sample ID: 580-47459-1

Date Collected: 02/10/15 15:38

Matrix: Solid

Date Received: 02/11/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobbles	0.00				%			02/16/15 14:54	1
Gravel	0.50				%			02/16/15 14:54	1
Sand	3.5				%			02/16/15 14:54	1
Silt	54				%			02/16/15 14:54	1
Clay	42				%			02/16/15 14:54	1

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-04A-20150210-S

Lab Sample ID: 580-47459-2

Date Collected: 02/10/15 11:51

Matrix: Solid

Date Received: 02/11/15 09:00

Percent Solids: 56.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	*	1.6	0.65	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,1,1-Trichloroethane	ND		1.6	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,1,2,2-Tetrachloroethane	ND		3.2	1.5	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.6	0.32	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,1,2-Trichloroethane	ND	*	3.2	0.81	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,1-Dichloroethane	ND		1.6	0.65	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,1-Dichloroethene	0.99	J	8.1	0.32	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,1-Dichloropropene	ND		1.6	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,2,3-Trichlorobenzene	ND		3.2	0.97	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,2,3-Trichloropropane	ND	*	1.6	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,2,4-Trichlorobenzene	ND		3.2	0.65	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,2,4-Trimethylbenzene	9.1		3.2	0.65	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,2-Dibromo-3-Chloropropane	ND	*	3.2	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,2-Dibromoethane	ND	*	1.6	0.32	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,2-Dichlorobenzene	ND		3.2	0.97	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,2-Dichloroethane	ND	*	1.6	0.65	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,2-Dichloropropane	ND		1.6	0.65	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,3,5-Trimethylbenzene	4.7	J	8.1	0.81	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,3-Dichlorobenzene	ND		3.2	0.81	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,3-Dichloropropane	ND	*	3.2	0.81	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
1,4-Dichlorobenzene	ND		1.6	0.32	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
2,2-Dichloropropane	ND		8.1	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
2-Butanone	14	J	16	4.9	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
2-Chloroethyl vinyl ether	ND		8.1	2.3	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
2-Chlorotoluene	ND		3.2	0.81	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
2-Hexanone	ND	*	8.1	0.81	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
4-Chlorotoluene	ND		3.2	0.81	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
4-Isopropyltoluene	ND		3.2	0.65	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Acetone	60		24	3.9	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Acrolein	ND		49	13	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Acrylonitrile	ND	*	16	4.5	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Benzene	0.62	J	1.6	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Bromobenzene	ND	*	3.2	0.81	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Bromochloromethane	ND	*	3.2	0.81	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Bromodichloromethane	ND	*	1.6	0.65	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Bromoform	ND		1.6	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Bromomethane	ND		1.6	0.65	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Carbon disulfide	4.0		1.6	0.32	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Carbon tetrachloride	ND		1.6	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Chlorobenzene	ND		1.6	0.65	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Chlorodibromomethane	ND		3.2	0.81	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Chloroethane	ND		1.6	0.32	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Chloroform	ND	*	1.6	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Chloromethane	ND		1.6	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
cis-1,2-Dichloroethene	ND		1.6	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
cis-1,3-Dichloropropene	ND		1.6	0.32	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Dibromomethane	ND	*	1.6	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Dichlorodifluoromethane	ND		1.6	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Ethylbenzene	2.3		1.6	0.65	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-04A-20150210-S

Lab Sample ID: 580-47459-2

Date Collected: 02/10/15 11:51

Matrix: Solid

Date Received: 02/11/15 09:00

Percent Solids: 56.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloro-1,3-butadiene	ND		3.2	0.97	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Iodomethane	ND		24	0.32	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Isopropylbenzene	1.1	J	3.2	0.32	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Methyl tert-butyl ether	ND	*	1.6	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Methylene Chloride	ND		24	4.9	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
m-Xylene & p-Xylene	9.0		3.2	0.32	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Naphthalene	8.0	J	8.1	0.81	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
n-Butylbenzene	2.6	J	3.2	0.32	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
N-Propylbenzene	ND		3.2	0.81	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
o-Xylene	15		3.2	0.81	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
sec-Butylbenzene	ND		3.2	0.81	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Styrene	ND		3.2	0.32	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
tert-Butylbenzene	ND		3.2	0.32	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Tetrachloroethene	ND		1.6	0.65	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Toluene	1.1	J	3.2	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
trans-1,2-Dichloroethene	ND		1.6	0.65	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
trans-1,3-Dichloropropene	ND		1.6	0.32	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
trans-1,4-Dichloro-2-butene	ND		8.1	2.8	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Trichloroethene	ND		1.6	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Trichlorofluoromethane	0.59	J	1.6	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Vinyl acetate	ND		8.1	0.97	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1
Vinyl chloride	ND		1.6	0.49	ug/Kg	☼	02/11/15 09:40	02/18/15 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		71 - 136	02/11/15 09:40	02/18/15 14:15	1
4-Bromofluorobenzene (Surr)	108		70 - 120	02/11/15 09:40	02/18/15 14:15	1
Dibromofluoromethane (Surr)	94		75 - 132	02/11/15 09:40	02/18/15 14:15	1
Toluene-d8 (Surr)	102		80 - 120	02/11/15 09:40	02/18/15 14:15	1
Trifluorotoluene (Surr)	94		65 - 140	02/11/15 09:40	02/18/15 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	10		7.7	2.3	ug/Kg	☼	02/11/15 09:40	02/19/15 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2,4-Dichloroethane-d4 (Surr)	95		71 - 136	02/11/15 09:40	02/19/15 14:13	1
4-Bromofluorobenzene (Surr)	93		70 - 120	02/11/15 09:40	02/19/15 14:13	1
Dibromofluoromethane (Surr)	89		75 - 132	02/11/15 09:40	02/19/15 14:13	1
Toluene-d8 (Surr)	110		80 - 120	02/11/15 09:40	02/19/15 14:13	1
Trifluorotoluene (Surr)	103		65 - 140	02/11/15 09:40	02/19/15 14:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*	89	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
1,2-Dichlorobenzene	ND	*	98	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
1,3-Dichlorobenzene	ND	*	89	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
1,4-Dichlorobenzene	ND	*	89	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
1-Methylnaphthalene	74	*	53	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
2,2'-oxybis[1-chloropropane]	ND		440	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
2,4,5-Trichlorophenol	ND		180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-04A-20150210-S

Lab Sample ID: 580-47459-2

Date Collected: 02/10/15 11:51

Matrix: Solid

Date Received: 02/11/15 09:00

Percent Solids: 56.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		270	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
2,4-Dichlorophenol	ND		180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
2,4-Dimethylphenol	ND		180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
2,4-Dinitrophenol	ND	^	1800	350	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
2,4-Dinitrotoluene	ND		180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
2,6-Dinitrotoluene	ND		180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
2-Chloronaphthalene	ND	*	35	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
2-Chlorophenol	ND	*	180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
2-Methylnaphthalene	220	*	35	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
2-Methylphenol	ND	*	180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
2-Nitroaniline	ND		180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
2-Nitrophenol	ND	*	180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
3 & 4 Methylphenol	ND	*	350	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
3,3'-Dichlorobenzidine	ND		350	53	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
3-Nitroaniline	ND		180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
4,6-Dinitro-2-methylphenol	ND		1800	180	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
4-Bromophenyl phenyl ether	ND		180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
4-Chloro-3-methylphenol	ND		180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
4-Chloroaniline	ND		180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
4-Chlorophenyl phenyl ether	ND	*	180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
4-Nitroaniline	ND		180	35	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
4-Nitrophenol	ND		1800	440	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Acenaphthene	460	*	35	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Acenaphthylene	72	*	35	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Anthracene	2700		35	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Benzo[a]anthracene	1500		35	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Benzo[a]pyrene	740		53	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Benzo[b]fluoranthene	1500		35	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Benzo[g,h,i]perylene	400		44	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Benzo[k]fluoranthene	640		44	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Benzoic acid	ND		4400	1300	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Benzyl alcohol	36	J	180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Bis(2-chloroethoxy)methane	ND	*	180	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Bis(2-chloroethyl)ether	ND	*	180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Bis(2-ethylhexyl) phthalate	3600	B	1100	89	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Butyl benzyl phthalate	630	B	350	89	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Carbazole	850		180	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Chrysene	2200		44	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Dibenz(a,h)anthracene	130		71	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Dibenzofuran	530	*	180	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Diethyl phthalate	150	J B	350	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Dimethyl phthalate	ND	*	180	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Di-n-butyl phthalate	ND		890	89	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Di-n-octyl phthalate	180	J	890	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Fluoranthene	6000		35	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Fluorene	1200	*	35	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Hexachlorobenzene	ND		89	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Hexachlorobutadiene	ND	*	89	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Hexachlorocyclopentadiene	ND		180	18	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-04A-20150210-S

Lab Sample ID: 580-47459-2

Date Collected: 02/10/15 11:51

Matrix: Solid

Date Received: 02/11/15 09:00

Percent Solids: 56.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND	*	180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Indeno[1,2,3-cd]pyrene	450		71	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Isophorone	ND	*	180	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Naphthalene	150		35	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Nitrobenzene	ND	*	180	60	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
N-Nitrosodimethylamine	ND		1800	440	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
N-Nitrosodi-n-propylamine	ND		180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
N-Nitrosodiphenylamine	56	J	89	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Pentachlorophenol	ND		350	35	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Phenanthrene	5400		35	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Phenol	ND	*	180	27	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Pyrene	5000		35	8.9	ug/Kg	☼	02/13/15 08:23	02/19/15 13:33	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	84		28 - 143				02/13/15 08:23	02/19/15 13:33	10
2-Fluorobiphenyl	81		42 - 140				02/13/15 08:23	02/19/15 13:33	10
2-Fluorophenol	67		36 - 145				02/13/15 08:23	02/19/15 13:33	10
Nitrobenzene-d5	63		38 - 141				02/13/15 08:23	02/19/15 13:33	10
Phenol-d5	61		38 - 149				02/13/15 08:23	02/19/15 13:33	10
Terphenyl-d14	84		42 - 151				02/13/15 08:23	02/19/15 13:33	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	86	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
1,2-Dichlorobenzene	ND	H	95	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
1,3-Dichlorobenzene	ND	H	86	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
1,4-Dichlorobenzene	ND	H	86	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
1-Methylnaphthalene	96	H	52	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
2,2'-oxybis[1-chloropropane]	ND	H	430	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
2,4,5-Trichlorophenol	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
2,4,6-Trichlorophenol	ND	H	260	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
2,4-Dichlorophenol	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
2,4-Dimethylphenol	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
2,4-Dinitrophenol	ND	H	1700	340	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
2,4-Dinitrotoluene	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
2,6-Dinitrotoluene	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
2-Chloronaphthalene	ND	H	34	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
2-Chlorophenol	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
2-Methylnaphthalene	190	H	34	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
2-Methylphenol	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
2-Nitroaniline	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
2-Nitrophenol	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
3 & 4 Methylphenol	ND	H	340	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
3,3'-Dichlorobenzidine	ND	H	340	52	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
3-Nitroaniline	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
4,6-Dinitro-2-methylphenol	ND	H	1700	170	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
4-Bromophenyl phenyl ether	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
4-Chloro-3-methylphenol	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
4-Chloroaniline	ND	H ^	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
4-Chlorophenyl phenyl ether	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-04A-20150210-S

Lab Sample ID: 580-47459-2

Date Collected: 02/10/15 11:51

Matrix: Solid

Date Received: 02/11/15 09:00

Percent Solids: 56.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND	H	170	34	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
4-Nitrophenol	ND	H	1700	430	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Acenaphthene	550	H	34	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Acenaphthylene	65	H	34	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Anthracene	1200	H	34	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Benzo[a]anthracene	1300	H	34	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Benzo[a]pyrene	720	H	52	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Benzo[b]fluoranthene	1400	H	34	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Benzo[g,h,i]perylene	360	H	43	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Benzo[k]fluoranthene	620	H	43	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Benzoic acid	ND	H *	4300	1300	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Benzyl alcohol	310	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Bis(2-chloroethoxy)methane	ND	H	170	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Bis(2-chloroethyl)ether	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Bis(2-ethylhexyl) phthalate	4000	H	1000	86	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Butyl benzyl phthalate	270	J H	340	86	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Carbazole	460	H	170	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Chrysene	2200	* H	43	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Dibenz(a,h)anthracene	130	H	69	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Dibenzofuran	450	H	170	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Diethyl phthalate	71	J H B	340	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Dimethyl phthalate	64	J H	170	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Di-n-butyl phthalate	ND	H	860	86	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Di-n-octyl phthalate	180	J H	860	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Fluoranthene	5100	H	34	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Fluorene	740	H	34	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Hexachlorobenzene	ND	H	86	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Hexachlorobutadiene	ND	H	86	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Hexachlorocyclopentadiene	ND	H	170	17	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Hexachloroethane	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Indeno[1,2,3-cd]pyrene	490	H	69	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Isophorone	ND	H	170	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Naphthalene	170	H	34	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Nitrobenzene	ND	H	170	59	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
N-Nitrosodimethylamine	ND	H	1700	430	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
N-Nitrosodi-n-propylamine	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
N-Nitrosodiphenylamine	74	J H	86	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Pentachlorophenol	ND	H	340	34	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Phenanthrene	3200	H *	34	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Phenol	ND	H	170	26	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Pyrene	4500	H	34	8.6	ug/Kg	☼	02/26/15 14:48	02/27/15 12:46	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	99		28 - 143				02/26/15 14:48	02/27/15 12:46	10
2-Fluorobiphenyl	98		42 - 140				02/26/15 14:48	02/27/15 12:46	10
2-Fluorophenol	87		36 - 145				02/26/15 14:48	02/27/15 12:46	10
Nitrobenzene-d5	108		38 - 141				02/26/15 14:48	02/27/15 12:46	10
Phenol-d5	84		38 - 149				02/26/15 14:48	02/27/15 12:46	10
Terphenyl-d14	110		42 - 151				02/26/15 14:48	02/27/15 12:46	10

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-04A-20150210-S

Lab Sample ID: 580-47459-2

Date Collected: 02/10/15 11:51

Matrix: Solid

Date Received: 02/11/15 09:00

Percent Solids: 56.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	33	B	9.7	1.2	mg/Kg	☼	02/12/15 15:11	02/12/15 21:15	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	106		50 - 150				02/12/15 15:11	02/12/15 21:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.017	0.0054	mg/Kg	☼	02/20/15 08:00	02/20/15 19:47	1
Arochlor 1221	ND		0.019	0.014	mg/Kg	☼	02/20/15 08:00	02/20/15 19:47	1
Arochlor 1232	ND		0.019	0.012	mg/Kg	☼	02/20/15 08:00	02/20/15 19:47	1
Arochlor 1242	ND		0.017	0.0036	mg/Kg	☼	02/20/15 08:00	02/20/15 19:47	1
Arochlor 1248	ND		0.017	0.0051	mg/Kg	☼	02/20/15 08:00	02/20/15 19:47	1
Arochlor 1254	ND		0.017	0.0036	mg/Kg	☼	02/20/15 08:00	02/20/15 19:47	1
Arochlor 1260	0.11		0.017	0.0051	mg/Kg	☼	02/20/15 08:00	02/20/15 19:47	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Tetrachloro-m-xylene	118		45 - 135				02/20/15 08:00	02/20/15 19:47	1
DCB Decachlorobiphenyl	72		50 - 140				02/20/15 08:00	02/20/15 19:47	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)	1300	Y	44	9.9	mg/Kg	☼	02/13/15 10:52	02/17/15 12:12	1
Motor Oil (>C24-C36)	6400	Y	87	16	mg/Kg	☼	02/13/15 10:52	02/17/15 12:12	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl	65		50 - 150				02/13/15 10:52	02/17/15 12:12	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		0.74	0.27	mg/Kg	☼	02/12/15 11:35	02/12/15 14:56	10
Lead	81		0.74	0.071	mg/Kg	☼	02/12/15 11:35	02/12/15 14:56	10
Antimony	5.2		0.30	0.063	mg/Kg	☼	02/12/15 11:35	02/12/15 14:56	10
Beryllium	0.32		0.30	0.052	mg/Kg	☼	02/12/15 11:35	02/12/15 14:56	10
Cadmium	0.71		0.30	0.028	mg/Kg	☼	02/12/15 11:35	02/12/15 14:56	10
Chromium	84		0.74	0.094	mg/Kg	☼	02/12/15 11:35	02/12/15 14:56	10
Copper	130		0.60	0.15	mg/Kg	☼	02/12/15 11:35	02/12/15 14:56	10
Nickel	58		0.74	0.12	mg/Kg	☼	02/12/15 11:35	02/12/15 14:56	10
Selenium	0.88	J	1.5	0.30	mg/Kg	☼	02/12/15 11:35	02/12/15 14:56	10
Silver	0.17	J	0.30	0.018	mg/Kg	☼	02/12/15 11:35	02/12/15 14:56	10
Thallium	ND		0.60	0.19	mg/Kg	☼	02/12/15 11:35	02/12/15 14:56	10
Zinc	380		7.4	1.7	mg/Kg	☼	02/12/15 11:35	02/12/15 14:56	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.033	0.0098	mg/Kg	☼	02/12/15 16:58	02/13/15 09:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	56		0.10	0.10	%			02/12/15 11:12	1
Total Organic Carbon	15000		2000	44	mg/Kg			02/18/15 15:01	1

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-04A-20150210-S

Lab Sample ID: 580-47459-2

Date Collected: 02/10/15 11:51

Matrix: Solid

Date Received: 02/11/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobbles	0.00				%			02/16/15 14:54	1
Gravel	8.5				%			02/16/15 14:54	1
Sand	52				%			02/16/15 14:54	1
Silt	23				%			02/16/15 14:54	1
Clay	17				%			02/16/15 14:54	1

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-TS-01-20150210-W

Lab Sample ID: 580-47459-3

Date Collected: 02/10/15 14:08

Matrix: Water

Date Received: 02/11/15 09:00

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	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
1,2-Dichlorobenzene	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
1,3-Dichlorobenzene	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
1,4-Dichlorobenzene	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
1-Methylnaphthalene	ND		0.28	0.14	ug/L		02/17/15 11:49	02/19/15 21:54	5
2,2'-oxybis[1-chloropropane]	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
2,4,5-Trichlorophenol	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
2,4,6-Trichlorophenol	ND		2.8	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
2,4-Dichlorophenol	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
2,4-Dimethylphenol	ND		9.5	1.4	ug/L		02/17/15 11:49	02/19/15 21:54	5
2,4-Dinitrophenol	ND	^	24	4.7	ug/L		02/17/15 11:49	02/19/15 21:54	5
2,4-Dinitrotoluene	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
2,6-Dinitrotoluene	0.55	J	1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
2-Chloronaphthalene	ND		0.28	0.095	ug/L		02/17/15 11:49	02/19/15 21:54	5
2-Chlorophenol	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
2-Methylnaphthalene	ND		0.95	0.095	ug/L		02/17/15 11:49	02/19/15 21:54	5
2-Methylphenol	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
2-Nitroaniline	ND	^	1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
2-Nitrophenol	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
3 & 4 Methylphenol	ND		3.8	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
3,3'-Dichlorobenzidine	ND	*	9.5	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
3-Nitroaniline	ND	*	1.9	0.57	ug/L		02/17/15 11:49	02/19/15 21:54	5
4,6-Dinitro-2-methylphenol	ND		19	4.7	ug/L		02/17/15 11:49	02/19/15 21:54	5
4-Bromophenyl phenyl ether	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
4-Chloro-3-methylphenol	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
4-Chloroaniline	ND	*	1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
4-Chlorophenyl phenyl ether	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
4-Nitroaniline	ND	^	2.8	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
4-Nitrophenol	ND		14	4.7	ug/L		02/17/15 11:49	02/19/15 21:54	5
Acenaphthene	ND		0.47	0.095	ug/L		02/17/15 11:49	02/19/15 21:54	5
Acenaphthylene	ND		0.38	0.095	ug/L		02/17/15 11:49	02/19/15 21:54	5
Anthracene	0.16	J *	0.19	0.047	ug/L		02/17/15 11:49	02/19/15 21:54	5
Benzo[a]anthracene	0.18	J	0.28	0.095	ug/L		02/17/15 11:49	02/19/15 21:54	5
Benzo[a]pyrene	ND	*	0.19	0.095	ug/L		02/17/15 11:49	02/19/15 21:54	5
Benzo[b]fluoranthene	0.19	J	0.38	0.095	ug/L		02/17/15 11:49	02/19/15 21:54	5
Benzo[g,h,i]perylene	ND		0.28	0.095	ug/L		02/17/15 11:49	02/19/15 21:54	5
Benzo[k]fluoranthene	ND		0.28	0.095	ug/L		02/17/15 11:49	02/19/15 21:54	5
Benzoic acid	ND	^	14	2.8	ug/L		02/17/15 11:49	02/19/15 21:54	5
Benzyl alcohol	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
Bis(2-chloroethoxy)methane	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
Bis(2-chloroethyl)ether	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
Bis(2-ethylhexyl) phthalate	ND	*	14	5.6	ug/L		02/17/15 11:49	02/19/15 21:54	5
Butyl benzyl phthalate	ND		2.8	0.95	ug/L		02/17/15 11:49	02/19/15 21:54	5
Carbazole	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
Chrysene	0.18	J	0.19	0.062	ug/L		02/17/15 11:49	02/19/15 21:54	5
Dibenz(a,h)anthracene	ND		0.28	0.095	ug/L		02/17/15 11:49	02/19/15 21:54	5
Dibenzofuran	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
Diethyl phthalate	0.82	J B	1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
Dimethyl phthalate	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-TS-01-20150210-W

Lab Sample ID: 580-47459-3

Date Collected: 02/10/15 14:08

Matrix: Water

Date Received: 02/11/15 09:00

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		02/17/15 11:49	02/19/15 21:54	5
Di-n-octyl phthalate	ND		1.9	0.85	ug/L		02/17/15 11:49	02/19/15 21:54	5
Fluoranthene	0.29		0.24	0.062	ug/L		02/17/15 11:49	02/19/15 21:54	5
Fluorene	0.13	J	0.28	0.095	ug/L		02/17/15 11:49	02/19/15 21:54	5
Hexachlorobenzene	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
Hexachlorobutadiene	ND		2.8	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
Hexachlorocyclopentadiene	ND		9.5	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
Hexachloroethane	ND		2.8	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
Indeno[1,2,3-cd]pyrene	ND		0.28	0.095	ug/L		02/17/15 11:49	02/19/15 21:54	5
Isophorone	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
Naphthalene	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
Nitrobenzene	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
N-Nitrosodimethylamine	ND		9.5	0.95	ug/L		02/17/15 11:49	02/19/15 21:54	5
N-Nitrosodi-n-propylamine	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
N-Nitrosodiphenylamine	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
Pentachlorophenol	3.5		3.3	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
Phenanthrene	0.27	J	0.38	0.095	ug/L		02/17/15 11:49	02/19/15 21:54	5
Phenol	ND		2.8	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5
Pyrene	0.33		0.28	0.062	ug/L		02/17/15 11:49	02/19/15 21:54	5
2,3,4,6-Tetrachlorophenol	ND		3.3	0.47	ug/L		02/17/15 11:49	02/19/15 21:54	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	101		44 - 125	02/17/15 11:49	02/19/15 21:54	5
2-Fluorobiphenyl	81		50 - 120	02/17/15 11:49	02/19/15 21:54	5
2-Fluorophenol	89		30 - 134	02/17/15 11:49	02/19/15 21:54	5
Nitrobenzene-d5	110		59 - 120	02/17/15 11:49	02/19/15 21:54	5
Phenol-d5	97		52 - 120	02/17/15 11:49	02/19/15 21:54	5
Terphenyl-d14	100		64 - 150	02/17/15 11:49	02/19/15 21:54	5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	390		1.0	0.70	mg/L			03/09/15 23:56	1
Sulfate	73		1.0	0.60	mg/L			03/09/15 23:56	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.013		0.0010	0.00027	mg/L		02/25/15 15:58	02/26/15 15:12	1
Antimony	0.0081		0.00040	0.000080	mg/L		02/25/15 15:58	02/26/15 15:12	1
Beryllium	0.00022	J	0.00040	0.00010	mg/L		02/25/15 15:58	02/26/15 15:12	1
Cadmium	0.00034	J	0.00040	0.000028	mg/L		02/25/15 15:58	02/26/15 15:12	1
Chromium	0.027		0.00040	0.00014	mg/L		02/25/15 15:58	02/26/15 15:12	1
Copper	0.053		0.0020	0.00060	mg/L		02/25/15 15:58	02/26/15 15:12	1
Lead	0.044		0.00040	0.000034	mg/L		02/25/15 15:58	02/26/15 15:12	1
Nickel	0.021		0.0030	0.00040	mg/L		02/25/15 15:58	02/26/15 15:12	1
Selenium	0.00058	J	0.0010	0.00030	mg/L		02/25/15 15:58	02/26/15 15:12	1
Silver	0.00016	J	0.00040	0.000030	mg/L		02/25/15 15:58	02/26/15 15:12	1
Thallium	ND		0.0010	0.00014	mg/L		02/25/15 15:58	02/26/15 15:12	1
Zinc	0.16		0.0070	0.0019	mg/L		02/25/15 15:58	02/26/15 15:12	1

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-TS-01-20150210-W

Lab Sample ID: 580-47459-3

Date Collected: 02/10/15 14:08

Matrix: Water

Date Received: 02/11/15 09:00

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J	0.00020	0.000041	mg/L		02/12/15 11:01	02/12/15 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	1600		10	10	umhos/cm			02/17/15 17:15	1
Nitrate as N	ND		0.90	0.20	mg/L			02/11/15 18:08	1
Alkalinity	120		5.0	5.0	mg/L			02/13/15 12:30	1
Bicarbonate Alkalinity as CaCO3	120		5.0	5.0	mg/L			02/13/15 12:30	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/13/15 12:30	1
Total Suspended Solids	580		20	20	mg/L			02/17/15 10:58	1
pH	8.35	HF	0.0100	0.0100	SU			02/11/15 18:12	1
Total Organic Carbon	4.0		1.0	0.33	mg/L			02/24/15 11:19	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	4.9		1.0	0.33	mg/L			02/24/15 11:19	1

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-FD-02-20150210-W

Lab Sample ID: 580-47459-4

Date Collected: 02/10/15 14:08

Matrix: Water

Date Received: 02/11/15 09:00

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	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
1,2-Dichlorobenzene	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
1,3-Dichlorobenzene	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
1,4-Dichlorobenzene	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
1-Methylnaphthalene	ND		0.28	0.14	ug/L		02/17/15 11:49	02/19/15 22:44	5
2,2'-oxybis[1-chloropropane]	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
2,4,5-Trichlorophenol	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
2,4,6-Trichlorophenol	ND		2.8	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
2,4-Dichlorophenol	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
2,4-Dimethylphenol	ND		9.5	1.4	ug/L		02/17/15 11:49	02/19/15 22:44	5
2,4-Dinitrophenol	ND	^	24	4.7	ug/L		02/17/15 11:49	02/19/15 22:44	5
2,4-Dinitrotoluene	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
2,6-Dinitrotoluene	0.55	J	1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
2-Chloronaphthalene	ND		0.28	0.095	ug/L		02/17/15 11:49	02/19/15 22:44	5
2-Chlorophenol	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
2-Methylnaphthalene	ND		0.95	0.095	ug/L		02/17/15 11:49	02/19/15 22:44	5
2-Methylphenol	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
2-Nitroaniline	ND	^	1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
2-Nitrophenol	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
3 & 4 Methylphenol	ND		3.8	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
3,3'-Dichlorobenzidine	ND	*	9.5	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
3-Nitroaniline	ND	*	1.9	0.57	ug/L		02/17/15 11:49	02/19/15 22:44	5
4,6-Dinitro-2-methylphenol	ND		19	4.7	ug/L		02/17/15 11:49	02/19/15 22:44	5
4-Bromophenyl phenyl ether	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
4-Chloro-3-methylphenol	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
4-Chloroaniline	ND	*	1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
4-Chlorophenyl phenyl ether	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
4-Nitroaniline	ND	^	2.8	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
4-Nitrophenol	ND		14	4.7	ug/L		02/17/15 11:49	02/19/15 22:44	5
Acenaphthene	ND		0.47	0.095	ug/L		02/17/15 11:49	02/19/15 22:44	5
Acenaphthylene	ND		0.38	0.095	ug/L		02/17/15 11:49	02/19/15 22:44	5
Anthracene	0.15	J *	0.19	0.047	ug/L		02/17/15 11:49	02/19/15 22:44	5
Benzo[a]anthracene	0.18	J	0.28	0.095	ug/L		02/17/15 11:49	02/19/15 22:44	5
Benzo[a]pyrene	ND	*	0.19	0.095	ug/L		02/17/15 11:49	02/19/15 22:44	5
Benzo[b]fluoranthene	0.17	J	0.38	0.095	ug/L		02/17/15 11:49	02/19/15 22:44	5
Benzo[g,h,i]perylene	ND		0.28	0.095	ug/L		02/17/15 11:49	02/19/15 22:44	5
Benzo[k]fluoranthene	ND		0.28	0.095	ug/L		02/17/15 11:49	02/19/15 22:44	5
Benzoic acid	ND	^	14	2.8	ug/L		02/17/15 11:49	02/19/15 22:44	5
Benzyl alcohol	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
Bis(2-chloroethoxy)methane	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
Bis(2-chloroethyl)ether	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
Bis(2-ethylhexyl) phthalate	ND	*	14	5.6	ug/L		02/17/15 11:49	02/19/15 22:44	5
Butyl benzyl phthalate	ND		2.8	0.95	ug/L		02/17/15 11:49	02/19/15 22:44	5
Carbazole	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
Chrysene	0.21		0.19	0.062	ug/L		02/17/15 11:49	02/19/15 22:44	5
Dibenz(a,h)anthracene	ND		0.28	0.095	ug/L		02/17/15 11:49	02/19/15 22:44	5
Dibenzofuran	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
Diethyl phthalate	0.83	J B	1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
Dimethyl phthalate	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-FD-02-20150210-W

Lab Sample ID: 580-47459-4

Date Collected: 02/10/15 14:08

Matrix: Water

Date Received: 02/11/15 09:00

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		02/17/15 11:49	02/19/15 22:44	5
Di-n-octyl phthalate	ND		1.9	0.85	ug/L		02/17/15 11:49	02/19/15 22:44	5
Fluoranthene	0.30		0.24	0.062	ug/L		02/17/15 11:49	02/19/15 22:44	5
Fluorene	0.099	J	0.28	0.095	ug/L		02/17/15 11:49	02/19/15 22:44	5
Hexachlorobenzene	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
Hexachlorobutadiene	ND		2.8	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
Hexachlorocyclopentadiene	ND		9.5	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
Hexachloroethane	ND		2.8	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
Indeno[1,2,3-cd]pyrene	0.095	J	0.28	0.095	ug/L		02/17/15 11:49	02/19/15 22:44	5
Isophorone	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
Naphthalene	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
Nitrobenzene	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
N-Nitrosodimethylamine	ND		9.5	0.95	ug/L		02/17/15 11:49	02/19/15 22:44	5
N-Nitrosodi-n-propylamine	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
N-Nitrosodiphenylamine	ND		1.9	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
Pentachlorophenol	3.6		3.3	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
Phenanthrene	0.23	J	0.38	0.095	ug/L		02/17/15 11:49	02/19/15 22:44	5
Phenol	ND		2.8	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5
Pyrene	0.31		0.28	0.062	ug/L		02/17/15 11:49	02/19/15 22:44	5
2,3,4,6-Tetrachlorophenol	ND		3.3	0.47	ug/L		02/17/15 11:49	02/19/15 22:44	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97		44 - 125	02/17/15 11:49	02/19/15 22:44	5
2-Fluorobiphenyl	81		50 - 120	02/17/15 11:49	02/19/15 22:44	5
2-Fluorophenol	83		30 - 134	02/17/15 11:49	02/19/15 22:44	5
Nitrobenzene-d5	101		59 - 120	02/17/15 11:49	02/19/15 22:44	5
Phenol-d5	94		52 - 120	02/17/15 11:49	02/19/15 22:44	5
Terphenyl-d14	105		64 - 150	02/17/15 11:49	02/19/15 22:44	5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	390		1.0	0.70	mg/L			03/10/15 00:36	1
Sulfate	73		1.0	0.60	mg/L			03/10/15 00:36	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012		0.0010	0.00027	mg/L		02/25/15 15:58	02/26/15 15:08	1
Antimony	0.0076		0.00040	0.000080	mg/L		02/25/15 15:58	02/26/15 15:08	1
Beryllium	0.00025	J	0.00040	0.00010	mg/L		02/25/15 15:58	02/26/15 15:08	1
Cadmium	0.00031	J	0.00040	0.000028	mg/L		02/25/15 15:58	02/26/15 15:08	1
Chromium	0.022		0.00040	0.00014	mg/L		02/25/15 15:58	02/26/15 15:08	1
Copper	0.048		0.0020	0.00060	mg/L		02/25/15 15:58	02/26/15 15:08	1
Lead	0.040		0.00040	0.000034	mg/L		02/25/15 15:58	02/26/15 15:08	1
Nickel	0.018		0.0030	0.00040	mg/L		02/25/15 15:58	02/26/15 15:08	1
Selenium	0.00077	J	0.0010	0.00030	mg/L		02/25/15 15:58	02/26/15 15:08	1
Silver	0.00014	J	0.00040	0.000030	mg/L		02/25/15 15:58	02/26/15 15:08	1
Thallium	ND		0.0010	0.00014	mg/L		02/25/15 15:58	02/26/15 15:08	1
Zinc	0.15		0.0070	0.0019	mg/L		02/25/15 15:58	02/26/15 15:08	1

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-FD-02-20150210-W

Lab Sample ID: 580-47459-4

Date Collected: 02/10/15 14:08

Matrix: Water

Date Received: 02/11/15 09:00

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00019	J	0.00020	0.000041	mg/L		02/12/15 11:01	02/12/15 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	1600		10	10	umhos/cm			02/17/15 17:15	1
Nitrate as N	ND		0.90	0.20	mg/L			02/11/15 18:51	1
Alkalinity	120		5.0	5.0	mg/L			02/13/15 12:30	1
Bicarbonate Alkalinity as CaCO3	120		5.0	5.0	mg/L			02/13/15 12:30	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/13/15 12:30	1
Total Suspended Solids	600		20	20	mg/L			02/17/15 10:58	1
pH	8.44	HF	0.0100	0.0100	SU			02/11/15 18:16	1
Total Organic Carbon	4.3		1.0	0.33	mg/L			02/24/15 11:19	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	4.9		1.0	0.33	mg/L			02/24/15 11:19	1

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-0F-01-20150210-W

Lab Sample ID: 580-47459-5

Date Collected: 02/10/15 13:34

Matrix: Water

Date Received: 02/11/15 09:00

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		02/17/15 11:49	02/19/15 23:34	5
1,2-Dichlorobenzene	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
1,3-Dichlorobenzene	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
1,4-Dichlorobenzene	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
1-Methylnaphthalene	ND		0.29	0.14	ug/L		02/17/15 11:49	02/19/15 23:34	5
2,2'-oxybis[1-chloropropane]	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
2,4,5-Trichlorophenol	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
2,4,6-Trichlorophenol	ND		2.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
2,4-Dichlorophenol	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
2,4-Dimethylphenol	ND		9.5	1.4	ug/L		02/17/15 11:49	02/19/15 23:34	5
2,4-Dinitrophenol	ND	^	24	4.8	ug/L		02/17/15 11:49	02/19/15 23:34	5
2,4-Dinitrotoluene	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
2,6-Dinitrotoluene	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
2-Chloronaphthalene	ND		0.29	0.095	ug/L		02/17/15 11:49	02/19/15 23:34	5
2-Chlorophenol	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
2-Methylnaphthalene	0.10	J	0.95	0.095	ug/L		02/17/15 11:49	02/19/15 23:34	5
2-Methylphenol	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
2-Nitroaniline	ND	^	1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
2-Nitrophenol	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
3 & 4 Methylphenol	ND		3.8	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
3,3'-Dichlorobenzidine	ND	*	9.5	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
3-Nitroaniline	ND	*	1.9	0.57	ug/L		02/17/15 11:49	02/19/15 23:34	5
4,6-Dinitro-2-methylphenol	ND		19	4.8	ug/L		02/17/15 11:49	02/19/15 23:34	5
4-Bromophenyl phenyl ether	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
4-Chloro-3-methylphenol	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
4-Chloroaniline	ND	*	1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
4-Chlorophenyl phenyl ether	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
4-Nitroaniline	ND	^	2.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
4-Nitrophenol	ND		14	4.8	ug/L		02/17/15 11:49	02/19/15 23:34	5
Acenaphthene	0.097	J	0.48	0.095	ug/L		02/17/15 11:49	02/19/15 23:34	5
Acenaphthylene	ND		0.38	0.095	ug/L		02/17/15 11:49	02/19/15 23:34	5
Anthracene	0.21	*	0.19	0.048	ug/L		02/17/15 11:49	02/19/15 23:34	5
Benzo[a]anthracene	0.22	J	0.29	0.095	ug/L		02/17/15 11:49	02/19/15 23:34	5
Benzo[a]pyrene	0.099	J*	0.19	0.095	ug/L		02/17/15 11:49	02/19/15 23:34	5
Benzo[b]fluoranthene	0.24	J	0.38	0.095	ug/L		02/17/15 11:49	02/19/15 23:34	5
Benzo[g,h,i]perylene	ND		0.29	0.095	ug/L		02/17/15 11:49	02/19/15 23:34	5
Benzo[k]fluoranthene	0.13	J	0.29	0.095	ug/L		02/17/15 11:49	02/19/15 23:34	5
Benzoic acid	ND	^	14	2.9	ug/L		02/17/15 11:49	02/19/15 23:34	5
Benzyl alcohol	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
Bis(2-chloroethoxy)methane	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
Bis(2-chloroethyl)ether	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
Bis(2-ethylhexyl) phthalate	ND	*	14	5.6	ug/L		02/17/15 11:49	02/19/15 23:34	5
Butyl benzyl phthalate	ND		2.9	0.95	ug/L		02/17/15 11:49	02/19/15 23:34	5
Carbazole	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
Chrysene	0.33		0.19	0.062	ug/L		02/17/15 11:49	02/19/15 23:34	5
Dibenz(a,h)anthracene	ND		0.29	0.095	ug/L		02/17/15 11:49	02/19/15 23:34	5
Dibenzofuran	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
Diethyl phthalate	0.73	J B	1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
Dimethyl phthalate	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-0F-01-20150210-W

Lab Sample ID: 580-47459-5

Date Collected: 02/10/15 13:34

Matrix: Water

Date Received: 02/11/15 09:00

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		02/17/15 11:49	02/19/15 23:34	5
Di-n-octyl phthalate	ND		1.9	0.86	ug/L		02/17/15 11:49	02/19/15 23:34	5
Fluoranthene	0.40		0.24	0.062	ug/L		02/17/15 11:49	02/19/15 23:34	5
Fluorene	0.30		0.29	0.095	ug/L		02/17/15 11:49	02/19/15 23:34	5
Hexachlorobenzene	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
Hexachlorobutadiene	ND		2.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
Hexachlorocyclopentadiene	ND		9.5	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
Hexachloroethane	ND		2.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
Indeno[1,2,3-cd]pyrene	ND		0.29	0.095	ug/L		02/17/15 11:49	02/19/15 23:34	5
Isophorone	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
Naphthalene	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
Nitrobenzene	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
N-Nitrosodimethylamine	ND		9.5	0.95	ug/L		02/17/15 11:49	02/19/15 23:34	5
N-Nitrosodi-n-propylamine	ND		1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
N-Nitrosodiphenylamine	0.82	J	1.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
Pentachlorophenol	0.88	J	3.3	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
Phenanthrene	0.58		0.38	0.095	ug/L		02/17/15 11:49	02/19/15 23:34	5
Phenol	ND		2.9	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5
Pyrene	0.75		0.29	0.062	ug/L		02/17/15 11:49	02/19/15 23:34	5
2,3,4,6-Tetrachlorophenol	ND		3.3	0.48	ug/L		02/17/15 11:49	02/19/15 23:34	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	99		44 - 125	02/17/15 11:49	02/19/15 23:34	5
2-Fluorobiphenyl	92		50 - 120	02/17/15 11:49	02/19/15 23:34	5
2-Fluorophenol	83		30 - 134	02/17/15 11:49	02/19/15 23:34	5
Nitrobenzene-d5	98		59 - 120	02/17/15 11:49	02/19/15 23:34	5
Phenol-d5	91		52 - 120	02/17/15 11:49	02/19/15 23:34	5
Terphenyl-d14	113		64 - 150	02/17/15 11:49	02/19/15 23:34	5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.4		1.0	0.70	mg/L			03/10/15 08:56	1
Sulfate	7.5		1.0	0.60	mg/L			03/10/15 08:56	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.014		0.0010	0.00027	mg/L		02/25/15 15:58	02/26/15 14:51	1
Antimony	0.0037		0.00040	0.000080	mg/L		02/25/15 15:58	02/26/15 14:51	1
Beryllium	0.00034	J	0.00040	0.00010	mg/L		02/25/15 15:58	02/26/15 14:51	1
Cadmium	0.00075		0.00040	0.000028	mg/L		02/25/15 15:58	02/26/15 14:51	1
Chromium	0.041		0.00040	0.00014	mg/L		02/25/15 15:58	02/26/15 14:51	1
Copper	0.11		0.0020	0.00060	mg/L		02/25/15 15:58	02/26/15 14:51	1
Lead	0.084		0.00040	0.000034	mg/L		02/25/15 15:58	02/26/15 14:51	1
Nickel	0.033		0.0030	0.00040	mg/L		02/25/15 15:58	02/26/15 14:51	1
Selenium	0.00048	J	0.0010	0.00030	mg/L		02/25/15 15:58	02/26/15 14:51	1
Silver	0.00016	J	0.00040	0.000030	mg/L		02/25/15 15:58	02/26/15 14:51	1
Thallium	ND		0.0010	0.00014	mg/L		02/25/15 15:58	02/26/15 14:51	1
Zinc	0.40		0.0070	0.0019	mg/L		02/25/15 15:58	02/26/15 14:51	1

TestAmerica Seattle

Client Sample Results

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-0F-01-20150210-W

Lab Sample ID: 580-47459-5

Date Collected: 02/10/15 13:34

Matrix: Water

Date Received: 02/11/15 09:00

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00023		0.00020	0.000041	mg/L		02/12/15 11:01	02/12/15 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	180		10	10	umhos/cm			02/17/15 17:15	1
Nitrate as N	0.23	J	0.90	0.20	mg/L			02/11/15 19:05	1
Alkalinity	83		5.0	5.0	mg/L			02/13/15 12:30	1
Bicarbonate Alkalinity as CaCO3	83		5.0	5.0	mg/L			02/13/15 12:30	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/13/15 12:30	1
Salinity	100		100	100	mg/L			02/25/15 10:24	1
Total Suspended Solids	110		6.0	6.0	mg/L			02/17/15 10:58	1
pH	8.39	HF	0.0100	0.0100	SU			02/11/15 18:20	1
Total Organic Carbon	2.5		1.0	0.33	mg/L			02/24/15 11:19	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	3.1		1.0	0.33	mg/L			02/24/15 11:19	1

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: MB 580-182696/1-A

Matrix: Solid

Analysis Batch: 182692

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 182696

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		02/18/15 10:54	02/18/15 10:37	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.90	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.20	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,1,2-Trichloroethane	ND		2.0	0.50	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,1-Dichloroethane	ND		1.0	0.40	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,1-Dichloroethene	ND		5.0	0.20	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,1-Dichloropropene	ND		1.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,2,3-Trichlorobenzene	ND		2.0	0.60	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,2,4-Trichlorobenzene	ND		2.0	0.40	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,2,4-Trimethylbenzene	ND		2.0	0.40	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,2-Dibromoethane	ND		1.0	0.20	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,2-Dichlorobenzene	ND		2.0	0.60	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,2-Dichloroethane	ND		1.0	0.40	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,2-Dichloropropane	ND		1.0	0.40	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,3-Dichlorobenzene	ND		2.0	0.50	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,3-Dichloropropane	ND		2.0	0.50	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
1,4-Dichlorobenzene	ND		1.0	0.20	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
2,2-Dichloropropane	ND		5.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
2-Butanone	ND		10	3.0	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
2-Chloroethyl vinyl ether	ND		5.0	1.4	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
2-Chlorotoluene	ND		2.0	0.50	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
2-Hexanone	ND		5.0	0.50	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
4-Chlorotoluene	ND		2.0	0.50	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
4-Isopropyltoluene	ND		2.0	0.40	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
4-Methyl-2-pentanone	ND		5.0	1.5	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Acetone	ND		15	2.4	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Acrolein	ND		30	8.2	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Acrylonitrile	ND		10	2.8	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Benzene	ND		1.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Bromobenzene	ND		2.0	0.50	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Bromochloromethane	ND		2.0	0.50	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Bromodichloromethane	ND		1.0	0.40	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Bromoform	ND		1.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Bromomethane	ND		1.0	0.40	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Carbon disulfide	ND		1.0	0.20	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Carbon tetrachloride	ND		1.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Chlorobenzene	ND		1.0	0.40	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Chlorodibromomethane	ND		2.0	0.50	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Chloroethane	ND		1.0	0.20	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Chloroform	ND		1.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Chloromethane	ND		1.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Dibromomethane	ND		1.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: MB 580-182696/1-A

Matrix: Solid

Analysis Batch: 182692

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 182696

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	ND		1.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Ethylbenzene	ND		1.0	0.40	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Hexachloro-1,3-butadiene	ND		2.0	0.60	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Iodomethane	ND		15	0.20	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Isopropylbenzene	ND		2.0	0.20	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Methyl tert-butyl ether	ND		1.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Methylene Chloride	ND		15	3.0	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
m-Xylene & p-Xylene	ND		2.0	0.20	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Naphthalene	ND		5.0	0.50	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
n-Butylbenzene	ND		2.0	0.20	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
N-Propylbenzene	ND		2.0	0.50	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
o-Xylene	ND		2.0	0.50	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
sec-Butylbenzene	ND		2.0	0.50	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Styrene	ND		2.0	0.20	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
tert-Butylbenzene	ND		2.0	0.20	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Tetrachloroethene	ND		1.0	0.40	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Toluene	ND		2.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
trans-1,2-Dichloroethene	ND		1.0	0.40	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
trans-1,4-Dichloro-2-butene	ND		5.0	1.7	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Trichloroethene	ND		1.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Trichlorofluoromethane	ND		1.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Vinyl acetate	ND		5.0	0.60	ug/Kg		02/18/15 10:54	02/18/15 10:37	1
Vinyl chloride	ND		1.0	0.30	ug/Kg		02/18/15 10:54	02/18/15 10:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	126		71 - 136	02/18/15 10:54	02/18/15 10:37	1
4-Bromofluorobenzene (Surr)	99		70 - 120	02/18/15 10:54	02/18/15 10:37	1
Dibromofluoromethane (Surr)	110		75 - 132	02/18/15 10:54	02/18/15 10:37	1
Toluene-d8 (Surr)	96		80 - 120	02/18/15 10:54	02/18/15 10:37	1
Trifluorotoluene (Surr)	91		65 - 140	02/18/15 10:54	02/18/15 10:37	1

Lab Sample ID: LCS 580-182696/2-A

Matrix: Solid

Analysis Batch: 182692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 182696

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	30.0	37.4	*	ug/Kg		125	72 - 123
1,1,1-Trichloroethane	30.0	32.8		ug/Kg		109	63 - 135
1,1,2,2-Tetrachloroethane	30.0	35.5		ug/Kg		118	73 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	30.0	27.8		ug/Kg		93	66 - 163
1,1,2-Trichloroethane	30.0	37.9	*	ug/Kg		126	77 - 124
1,1-Dichloroethane	30.0	36.1		ug/Kg		120	70 - 128
1,1-Dichloroethene	30.0	30.0		ug/Kg		100	70 - 133
1,1-Dichloropropene	30.0	33.3		ug/Kg		111	77 - 125
1,2,3-Trichlorobenzene	30.0	33.6		ug/Kg		112	61 - 130
1,2,3-Trichloropropane	30.0	42.0	*	ug/Kg		140	77 - 123

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCS 580-182696/2-A

Matrix: Solid

Analysis Batch: 182692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 182696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	30.0	33.4		ug/Kg		111	61 - 130
1,2,4-Trimethylbenzene	30.0	35.0		ug/Kg		117	79 - 124
1,2-Dibromo-3-Chloropropane	30.0	40.3	*	ug/Kg		134	53 - 132
1,2-Dibromoethane	30.0	41.1	*	ug/Kg		137	69 - 126
1,2-Dichlorobenzene	30.0	35.0		ug/Kg		117	79 - 117
1,2-Dichloroethane	30.0	39.1	*	ug/Kg		130	71 - 128
1,2-Dichloropropane	30.0	39.6		ug/Kg		132	76 - 161
1,3,5-Trimethylbenzene	30.0	34.3		ug/Kg		114	80 - 125
1,3-Dichlorobenzene	30.0	34.1		ug/Kg		114	79 - 119
1,3-Dichloropropane	30.0	38.7	*	ug/Kg		129	77 - 123
1,4-Dichlorobenzene	30.0	34.0		ug/Kg		113	79 - 117
2,2-Dichloropropane	30.0	34.4		ug/Kg		115	56 - 144
2-Butanone	120	160		ug/Kg		133	30 - 160
2-Chloroethyl vinyl ether	30.0	36.6		ug/Kg		122	60 - 150
2-Chlorotoluene	30.0	34.0		ug/Kg		113	79 - 122
2-Hexanone	120	179	*	ug/Kg		149	45 - 145
4-Chlorotoluene	30.0	34.9		ug/Kg		116	80 - 122
4-Isopropyltoluene	30.0	31.5		ug/Kg		105	78 - 126
4-Methyl-2-pentanone	120	177	*	ug/Kg		148	45 - 145
Acetone	120	153		ug/Kg		128	20 - 160
Acrolein	178	192		ug/Kg		108	10 - 125
Acrylonitrile	300	415	*	ug/Kg		138	74 - 117
Benzene	30.0	35.4		ug/Kg		118	70 - 128
Bromobenzene	30.0	36.5	*	ug/Kg		122	80 - 120
Bromochloromethane	30.0	39.2	*	ug/Kg		131	78 - 123
Bromodichloromethane	30.0	43.4	*	ug/Kg		145	58 - 133
Bromoform	30.0	35.9		ug/Kg		120	50 - 124
Bromomethane	30.0	32.8		ug/Kg		109	57 - 148
Carbon disulfide	30.0	33.4		ug/Kg		111	45 - 160
Carbon tetrachloride	30.0	31.9		ug/Kg		106	59 - 145
Chlorobenzene	30.0	33.7		ug/Kg		112	75 - 120
Chlorodibromomethane	30.0	38.4		ug/Kg		128	42 - 129
Chloroethane	30.0	32.1		ug/Kg		107	48 - 167
Chloroform	30.0	38.1	*	ug/Kg		127	78 - 125
Chloromethane	30.0	30.6		ug/Kg		102	55 - 136
cis-1,2-Dichloroethene	30.0	36.2		ug/Kg		121	70 - 130
cis-1,3-Dichloropropene	30.0	37.7		ug/Kg		126	69 - 129
Dibromomethane	30.0	42.3	*	ug/Kg		141	78 - 126
Dichlorodifluoromethane	30.0	22.9		ug/Kg		76	38 - 150
Ethylbenzene	30.0	33.5		ug/Kg		112	78 - 126
Hexachloro-1,3-butadiene	30.0	27.4		ug/Kg		91	68 - 134
Iodomethane	30.0	35.6		ug/Kg		119	44 - 148
Isopropylbenzene	30.0	32.7		ug/Kg		109	79 - 127
Methyl tert-butyl ether	30.0	39.5	*	ug/Kg		132	65 - 125
Methylene Chloride	30.0	36.3		ug/Kg		121	57 - 146
m-Xylene & p-Xylene	30.0	34.0		ug/Kg		113	78 - 126
Naphthalene	30.0	36.8		ug/Kg		123	14 - 170
n-Butylbenzene	30.0	32.2		ug/Kg		107	78 - 128

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCS 580-182696/2-A

Matrix: Solid

Analysis Batch: 182692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 182696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Propylbenzene	30.0	33.0		ug/Kg		110	81 - 127
o-Xylene	30.0	35.3		ug/Kg		118	77 - 127
sec-Butylbenzene	30.0	29.8		ug/Kg		99	78 - 128
Styrene	30.0	37.2		ug/Kg		124	79 - 127
tert-Butylbenzene	30.0	28.5		ug/Kg		95	71 - 136
Tetrachloroethene	30.0	27.2		ug/Kg		91	56 - 155
Toluene	30.0	33.6		ug/Kg		112	75 - 126
trans-1,2-Dichloroethene	30.0	32.7		ug/Kg		109	76 - 131
trans-1,3-Dichloropropene	30.0	36.4		ug/Kg		121	72 - 129
trans-1,4-Dichloro-2-butene	30.0	40.7		ug/Kg		136	42 - 160
Trichloroethene	30.0	34.4		ug/Kg		115	83 - 124
Trichlorofluoromethane	30.0	25.7		ug/Kg		86	47 - 165
Vinyl acetate	60.5	75.0		ug/Kg		124	19 - 144
Vinyl chloride	30.0	29.3		ug/Kg		98	67 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		71 - 136
4-Bromofluorobenzene (Surr)	105		70 - 120
Dibromofluoromethane (Surr)	105		75 - 132
Toluene-d8 (Surr)	96		80 - 120
Trifluorotoluene (Surr)	85		65 - 140

Lab Sample ID: LCSD 580-182696/3-A

Matrix: Solid

Analysis Batch: 182692

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 182696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,1,1,2-Tetrachloroethane	30.0	36.6		ug/Kg		122	72 - 123	2	20
1,1,1-Trichloroethane	30.0	31.5		ug/Kg		105	63 - 135	4	20
1,1,2,2-Tetrachloroethane	30.0	35.1		ug/Kg		117	73 - 125	1	22
1,1,2-Trichloro-1,2,2-trifluoroethane	30.0	26.2		ug/Kg		87	66 - 163	6	30
1,1,2-Trichloroethane	30.0	36.5		ug/Kg		122	77 - 124	4	18
1,1-Dichloroethane	30.0	34.7		ug/Kg		116	70 - 128	4	21
1,1-Dichloroethene	30.0	29.0		ug/Kg		97	70 - 133	3	23
1,1-Dichloropropene	30.0	32.2		ug/Kg		107	77 - 125	4	16
1,2,3-Trichlorobenzene	30.0	35.3		ug/Kg		118	61 - 130	5	23
1,2,3-Trichloropropane	30.0	40.5	*	ug/Kg		135	77 - 123	4	23
1,2,4-Trichlorobenzene	30.0	34.3		ug/Kg		114	61 - 130	2	22
1,2,4-Trimethylbenzene	30.0	34.2		ug/Kg		114	79 - 124	2	18
1,2-Dibromo-3-Chloropropane	30.0	39.2		ug/Kg		131	53 - 132	3	27
1,2-Dibromoethane	30.0	40.4	*	ug/Kg		135	69 - 126	2	21
1,2-Dichlorobenzene	30.0	34.7		ug/Kg		116	79 - 117	1	17
1,2-Dichloroethane	30.0	38.0		ug/Kg		127	71 - 128	3	18
1,2-Dichloropropane	30.0	38.5		ug/Kg		128	76 - 161	3	15
1,3,5-Trimethylbenzene	30.0	33.5		ug/Kg		112	80 - 125	2	18
1,3-Dichlorobenzene	30.0	33.8		ug/Kg		113	79 - 119	1	17
1,3-Dichloropropane	30.0	38.6	*	ug/Kg		129	77 - 123	0	19

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCSD 580-182696/3-A

Matrix: Solid

Analysis Batch: 182692

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 182696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	RPD	Limit
1,4-Dichlorobenzene	30.0	33.9		ug/Kg		113	79 - 117	0	18	
2,2-Dichloropropane	30.0	31.2		ug/Kg		104	56 - 144	10	21	
2-Butanone	120	159		ug/Kg		132	30 - 160	1	30	
2-Chloroethyl vinyl ether	30.0	36.3		ug/Kg		121	60 - 150	1	30	
2-Chlorotoluene	30.0	33.5		ug/Kg		112	79 - 122	1	18	
2-Hexanone	120	175 *		ug/Kg		146	45 - 145	2	30	
4-Chlorotoluene	30.0	34.4		ug/Kg		115	80 - 122	2	18	
4-Isopropyltoluene	30.0	31.1		ug/Kg		104	78 - 126	1	18	
4-Methyl-2-pentanone	120	171		ug/Kg		142	45 - 145	4	30	
Acetone	120	148		ug/Kg		123	20 - 160	4	30	
Acrolein	178	189		ug/Kg		106	10 - 125	1	30	
Acrylonitrile	300	395 *		ug/Kg		132	74 - 117	5	30	
Benzene	30.0	34.6		ug/Kg		115	70 - 128	2	19	
Bromobenzene	30.0	36.0		ug/Kg		120	80 - 120	1	19	
Bromochloromethane	30.0	37.0		ug/Kg		123	78 - 123	6	19	
Bromodichloromethane	30.0	42.2 *		ug/Kg		141	58 - 133	3	19	
Bromoform	30.0	35.0		ug/Kg		117	50 - 124	3	25	
Bromomethane	30.0	32.0		ug/Kg		107	57 - 148	3	29	
Carbon disulfide	30.0	32.0		ug/Kg		107	45 - 160	4	30	
Carbon tetrachloride	30.0	29.8		ug/Kg		99	59 - 145	7	19	
Chlorobenzene	30.0	33.4		ug/Kg		111	75 - 120	1	21	
Chlorodibromomethane	30.0	37.4		ug/Kg		125	42 - 129	3	23	
Chloroethane	30.0	30.3		ug/Kg		101	48 - 167	6	53	
Chloroform	30.0	36.4		ug/Kg		121	78 - 125	5	17	
Chloromethane	30.0	29.3		ug/Kg		98	55 - 136	4	26	
cis-1,2-Dichloroethene	30.0	34.4		ug/Kg		115	70 - 130	5	19	
cis-1,3-Dichloropropene	30.0	37.2		ug/Kg		124	69 - 129	2	19	
Dibromomethane	30.0	41.4 *		ug/Kg		138	78 - 126	2	18	
Dichlorodifluoromethane	30.0	21.3		ug/Kg		71	38 - 150	7	26	
Ethylbenzene	30.0	33.2		ug/Kg		111	78 - 126	1	23	
Hexachloro-1,3-butadiene	30.0	28.6		ug/Kg		95	68 - 134	4	21	
Iodomethane	30.0	33.9		ug/Kg		113	44 - 148	5	30	
Isopropylbenzene	30.0	31.8		ug/Kg		106	79 - 127	3	20	
Methyl tert-butyl ether	30.0	38.6 *		ug/Kg		129	65 - 125	2	30	
Methylene Chloride	30.0	34.8		ug/Kg		116	57 - 146	4	21	
m-Xylene & p-Xylene	30.0	33.6		ug/Kg		112	78 - 126	1	23	
Naphthalene	30.0	37.9		ug/Kg		126	14 - 170	3	50	
n-Butylbenzene	30.0	31.0		ug/Kg		103	78 - 128	4	17	
N-Propylbenzene	30.0	32.0		ug/Kg		107	81 - 127	3	20	
o-Xylene	30.0	34.4		ug/Kg		115	77 - 127	3	22	
sec-Butylbenzene	30.0	28.9		ug/Kg		96	78 - 128	3	17	
Styrene	30.0	37.2		ug/Kg		124	79 - 127	0	21	
tert-Butylbenzene	30.0	28.4		ug/Kg		95	71 - 136	0	27	
Tetrachloroethene	30.0	26.0		ug/Kg		87	56 - 155	5	27	
Toluene	30.0	32.6		ug/Kg		109	75 - 126	3	19	
trans-1,2-Dichloroethene	30.0	31.6		ug/Kg		105	76 - 131	3	18	
trans-1,3-Dichloropropene	30.0	37.3		ug/Kg		124	72 - 129	2	20	
trans-1,4-Dichloro-2-butene	30.0	39.4		ug/Kg		131	42 - 160	3	30	

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCSD 580-182696/3-A
Matrix: Solid
Analysis Batch: 182692

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 182696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene	30.0	33.9		ug/Kg		113	83 - 124	1	17
Trichlorofluoromethane	30.0	25.7		ug/Kg		86	47 - 165	0	54
Vinyl acetate	60.5	73.4		ug/Kg		121	19 - 144	2	30
Vinyl chloride	30.0	27.3		ug/Kg		91	67 - 131	7	22

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	117		71 - 136
4-Bromofluorobenzene (Surr)	104		70 - 120
Dibromofluoromethane (Surr)	106		75 - 132
Toluene-d8 (Surr)	94		80 - 120
Trifluorotoluene (Surr)	82		65 - 140

Lab Sample ID: MB 580-182809/1-A
Matrix: Solid
Analysis Batch: 182769

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182809

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		5.0	1.5	ug/Kg		02/19/15 11:20	02/19/15 11:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		71 - 136	02/19/15 11:20	02/19/15 11:22	1
4-Bromofluorobenzene (Surr)	96		70 - 120	02/19/15 11:20	02/19/15 11:22	1
Dibromofluoromethane (Surr)	96		75 - 132	02/19/15 11:20	02/19/15 11:22	1
Toluene-d8 (Surr)	102		80 - 120	02/19/15 11:20	02/19/15 11:22	1
Trifluorotoluene (Surr)	100		65 - 140	02/19/15 11:20	02/19/15 11:22	1

Lab Sample ID: LCS 580-182809/2-A
Matrix: Solid
Analysis Batch: 182769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182809

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone	80.0	104		ug/Kg		130	45 - 145

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

Lab Sample ID: LCSD 580-182809/3-A
Matrix: Solid
Analysis Batch: 182769

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 182809

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone	80.0	83.8		ug/Kg		105	45 - 145	22	30

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCSD 580-182809/3-A
Matrix: Solid
Analysis Batch: 182769

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 182809

<i>Surrogate</i>	<i>LCSD %Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	93		71 - 136
4-Bromofluorobenzene (Surr)	99		70 - 120
Dibromofluoromethane (Surr)	97		75 - 132
Toluene-d8 (Surr)	101		80 - 120
Trifluorotoluene (Surr)	96		65 - 140

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

Lab Sample ID: MB 580-182433/1-A
Matrix: Solid
Analysis Batch: 182776

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182433

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2,4-Trichlorobenzene	ND		5.0	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
1,2-Dichlorobenzene	ND		5.5	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
1,3-Dichlorobenzene	ND		5.0	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
1,4-Dichlorobenzene	ND		5.0	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
1-Methylnaphthalene	ND		3.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
2,2'-oxybis[1-chloropropane]	ND		25	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
2,4,5-Trichlorophenol	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
2,4,6-Trichlorophenol	ND		15	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
2,4-Dichlorophenol	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
2,4-Dimethylphenol	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
2,4-Dinitrophenol	ND	^	100	20	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
2,4-Dinitrotoluene	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
2,6-Dinitrotoluene	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
2-Chloronaphthalene	ND		2.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
2-Chlorophenol	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
2-Methylphenol	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
2-Nitroaniline	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
2-Nitrophenol	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
3 & 4 Methylphenol	ND		20	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
3,3'-Dichlorobenzidine	ND		20	3.0	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
3-Nitroaniline	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
4,6-Dinitro-2-methylphenol	ND		100	10	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
4-Bromophenyl phenyl ether	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
4-Chloro-3-methylphenol	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
4-Chloroaniline	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
4-Chlorophenyl phenyl ether	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
4-Nitroaniline	ND		10	2.0	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
4-Nitrophenol	ND		100	25	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Acenaphthene	ND		2.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Anthracene	ND		2.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: MB 580-182433/1-A

Matrix: Solid

Analysis Batch: 182776

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 182433

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Benzoic acid	ND		250	75	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Benzyl alcohol	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Bis(2-chloroethoxy)methane	ND		10	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Bis(2-chloroethyl)ether	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Bis(2-ethylhexyl) phthalate	5.78	J	60	5.0	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Butyl benzyl phthalate	10.3	J	20	5.0	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Carbazole	ND		10	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Chrysene	ND		2.5	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Dibenzofuran	ND		10	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Diethyl phthalate	10.4	J	20	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Di-n-butyl phthalate	ND		50	5.0	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Di-n-octyl phthalate	ND		50	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Fluoranthene	ND		2.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Fluorene	ND		2.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Hexachlorobenzene	ND		5.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Hexachlorobutadiene	ND		5.0	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Hexachlorocyclopentadiene	ND		10	1.0	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Hexachloroethane	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Isophorone	ND		10	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Naphthalene	ND		2.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Nitrobenzene	ND		10	3.4	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
N-Nitrosodimethylamine	ND		100	25	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
N-Nitrosodi-n-propylamine	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Pentachlorophenol	ND		20	2.0	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Phenanthrene	ND		2.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Phenol	ND		10	1.5	ug/Kg		02/13/15 08:23	02/19/15 10:56	1
Pyrene	ND		2.0	0.50	ug/Kg		02/13/15 08:23	02/19/15 10:56	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	64		28 - 143	02/13/15 08:23	02/19/15 10:56	1
2-Fluorobiphenyl	77		42 - 140	02/13/15 08:23	02/19/15 10:56	1
2-Fluorophenol	82		36 - 145	02/13/15 08:23	02/19/15 10:56	1
Nitrobenzene-d5	70		38 - 141	02/13/15 08:23	02/19/15 10:56	1
Phenol-d5	84		38 - 149	02/13/15 08:23	02/19/15 10:56	1
Terphenyl-d14	102		42 - 151	02/13/15 08:23	02/19/15 10:56	1

Lab Sample ID: LCS 580-182433/2-A

Matrix: Solid

Analysis Batch: 182776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 182433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,2,4-Trichlorobenzene	100	65.1	*	ug/Kg		65	66 - 115

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCS 580-182433/2-A

Matrix: Solid

Analysis Batch: 182776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 182433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	100	66.5		ug/Kg		67	64 - 112
1,3-Dichlorobenzene	100	66.7		ug/Kg		67	64 - 111
1,4-Dichlorobenzene	100	64.8		ug/Kg		65	65 - 110
1-Methylnaphthalene	100	64.8		ug/Kg		65	62 - 118
2,2'-oxybis[1-chloropropane]	100	60.0		ug/Kg		60	41 - 126
2,4,5-Trichlorophenol	100	76.9		ug/Kg		77	57 - 133
2,4,6-Trichlorophenol	100	73.6		ug/Kg		74	62 - 133
2,4-Dichlorophenol	100	72.6		ug/Kg		73	68 - 125
2,4-Dimethylphenol	100	73.3		ug/Kg		73	54 - 139
2,4-Dinitrophenol	200	175	^	ug/Kg		87	20 - 141
2,4-Dinitrotoluene	100	81.7		ug/Kg		82	68 - 121
2,6-Dinitrotoluene	100	68.8		ug/Kg		69	66 - 123
2-Chloronaphthalene	100	64.5	*	ug/Kg		65	68 - 112
2-Chlorophenol	100	65.9	*	ug/Kg		66	68 - 117
2-Methylnaphthalene	100	63.5		ug/Kg		64	64 - 119
2-Methylphenol	100	66.0	*	ug/Kg		66	71 - 116
2-Nitroaniline	100	75.9		ug/Kg		76	64 - 112
2-Nitrophenol	100	66.6		ug/Kg		67	67 - 127
3 & 4 Methylphenol	100	77.0		ug/Kg		77	70 - 116
3,3'-Dichlorobenzidine	200	131		ug/Kg		65	20 - 103
3-Nitroaniline	100	62.1		ug/Kg		62	27 - 103
4,6-Dinitro-2-methylphenol	200	177		ug/Kg		89	48 - 130
4-Bromophenyl phenyl ether	100	79.2		ug/Kg		79	68 - 122
4-Chloro-3-methylphenol	100	84.6		ug/Kg		85	69 - 121
4-Chloroaniline	100	33.3		ug/Kg		33	20 - 103
4-Chlorophenyl phenyl ether	100	68.3	*	ug/Kg		68	75 - 108
4-Nitroaniline	100	88.8		ug/Kg		89	58 - 108
4-Nitrophenol	200	188		ug/Kg		94	20 - 165
Acenaphthene	100	67.0	*	ug/Kg		67	68 - 116
Acenaphthylene	100	62.8	*	ug/Kg		63	68 - 120
Anthracene	100	82.8		ug/Kg		83	73 - 116
Benzo[a]anthracene	100	78.6		ug/Kg		79	76 - 119
Benzo[a]pyrene	100	92.1		ug/Kg		92	72 - 117
Benzo[b]fluoranthene	100	90.2		ug/Kg		90	63 - 132
Benzo[g,h,i]perylene	100	92.3		ug/Kg		92	55 - 139
Benzo[k]fluoranthene	100	97.1		ug/Kg		97	63 - 119
Benzoic acid	200	105	J	ug/Kg		53	29 - 158
Benzyl alcohol	100	57.9		ug/Kg		58	55 - 123
Bis(2-chloroethoxy)methane	100	59.8	*	ug/Kg		60	69 - 107
Bis(2-chloroethyl)ether	100	59.0	*	ug/Kg		59	62 - 110
Bis(2-ethylhexyl) phthalate	100	105		ug/Kg		105	62 - 144
Butyl benzyl phthalate	100	107		ug/Kg		107	69 - 142
Carbazole	100	99.2		ug/Kg		99	76 - 135
Chrysene	100	98.9		ug/Kg		99	75 - 114
Dibenz(a,h)anthracene	100	105		ug/Kg		105	56 - 134
Dibenzofuran	100	64.3	*	ug/Kg		64	72 - 109
Diethyl phthalate	100	94.3		ug/Kg		94	73 - 116
Dimethyl phthalate	100	73.7	*	ug/Kg		74	78 - 117

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCS 580-182433/2-A

Matrix: Solid

Analysis Batch: 182776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 182433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Di-n-butyl phthalate	100	90.7		ug/Kg		91	66 - 140	
Di-n-octyl phthalate	100	97.4		ug/Kg		97	65 - 141	
Fluoranthene	100	90.6		ug/Kg		91	73 - 125	
Fluorene	100	70.7		ug/Kg		71	70 - 121	
Hexachlorobenzene	100	80.0		ug/Kg		80	66 - 117	
Hexachlorobutadiene	100	61.4	*	ug/Kg		61	65 - 116	
Hexachlorocyclopentadiene	100	64.9		ug/Kg		65	46 - 131	
Hexachloroethane	100	58.5	*	ug/Kg		59	62 - 120	
Indeno[1,2,3-cd]pyrene	100	97.6		ug/Kg		98	56 - 127	
Isophorone	100	66.0	*	ug/Kg		66	67 - 119	
Naphthalene	100	64.4		ug/Kg		64	62 - 112	
Nitrobenzene	100	54.3	*	ug/Kg		54	64 - 118	
N-Nitrosodimethylamine	100	61.4	J	ug/Kg		61	38 - 133	
N-Nitrosodi-n-propylamine	100	66.6		ug/Kg		67	62 - 116	
N-Nitrosodiphenylamine	100	78.6		ug/Kg		79	73 - 115	
Pentachlorophenol	200	145		ug/Kg		73	45 - 117	
Phenanthrene	100	78.9		ug/Kg		79	73 - 106	
Phenol	100	62.9		ug/Kg		63	63 - 111	
Pyrene	100	91.3		ug/Kg		91	70 - 120	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	70		28 - 143
2-Fluorobiphenyl	72		42 - 140
2-Fluorophenol	77		36 - 145
Nitrobenzene-d5	69		38 - 141
Phenol-d5	78		38 - 149
Terphenyl-d14	92		42 - 151

Lab Sample ID: LCSD 580-182433/3-A

Matrix: Solid

Analysis Batch: 182776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 182433

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
									RPD	Limit
1,2,4-Trichlorobenzene	100	61.2	*	ug/Kg		61	66 - 115	6	28	
1,2-Dichlorobenzene	100	60.0	*	ug/Kg		60	64 - 112	10	30	
1,3-Dichlorobenzene	100	60.9	*	ug/Kg		61	64 - 111	9	30	
1,4-Dichlorobenzene	100	61.8	*	ug/Kg		62	65 - 110	5	30	
1-Methylnaphthalene	100	61.0	*	ug/Kg		61	62 - 118	6	30	
2,2'-oxybis[1-chloropropane]	100	55.3		ug/Kg		55	41 - 126	8	57	
2,4,5-Trichlorophenol	100	84.7		ug/Kg		85	57 - 133	10	30	
2,4,6-Trichlorophenol	100	82.0		ug/Kg		82	62 - 133	11	30	
2,4-Dichlorophenol	100	70.2		ug/Kg		70	68 - 125	3	30	
2,4-Dimethylphenol	100	67.5		ug/Kg		68	54 - 139	8	30	
2,4-Dinitrophenol	200	141	^	ug/Kg		70	20 - 141	21	36	
2,4-Dinitrotoluene	100	89.5		ug/Kg		90	68 - 121	9	30	
2,6-Dinitrotoluene	100	70.0		ug/Kg		70	66 - 123	2	30	
2-Chloronaphthalene	100	61.2	*	ug/Kg		61	68 - 112	5	25	
2-Chlorophenol	100	61.5	*	ug/Kg		61	68 - 117	7	27	

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCSD 580-182433/3-A

Matrix: Solid

Analysis Batch: 182776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 182433

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	RPD	Limit
2-Methylnaphthalene	100	59.3	*	ug/Kg		59	64 - 119	7	27	
2-Methylphenol	100	58.3	*	ug/Kg		58	71 - 116	12	25	
2-Nitroaniline	100	83.1		ug/Kg		83	64 - 112	9	22	
2-Nitrophenol	100	66.1	*	ug/Kg		66	67 - 127	1	30	
3 & 4 Methylphenol	100	68.7	*	ug/Kg		69	70 - 116	11	27	
3,3'-Dichlorobenzidine	200	108		ug/Kg		54	20 - 103	20	60	
3-Nitroaniline	100	61.0		ug/Kg		61	27 - 103	2	33	
4,6-Dinitro-2-methylphenol	200	162		ug/Kg		81	48 - 130	9	22	
4-Bromophenyl phenyl ether	100	78.3		ug/Kg		78	68 - 122	1	30	
4-Chloro-3-methylphenol	100	77.0		ug/Kg		77	69 - 121	9	27	
4-Chloroaniline	100	25.4		ug/Kg		25	20 - 103	27	60	
4-Chlorophenyl phenyl ether	100	64.1	*	ug/Kg		64	75 - 108	6	30	
4-Nitroaniline	100	86.1		ug/Kg		86	58 - 108	3	32	
4-Nitrophenol	200	198		ug/Kg		99	20 - 165	5	30	
Acenaphthene	100	63.2	*	ug/Kg		63	68 - 116	6	27	
Acenaphthylene	100	59.4	*	ug/Kg		59	68 - 120	6	28	
Anthracene	100	79.2		ug/Kg		79	73 - 116	4	27	
Benzo[a]anthracene	100	85.0		ug/Kg		85	76 - 119	8	27	
Benzo[a]pyrene	100	86.3		ug/Kg		86	72 - 117	6	30	
Benzo[b]fluoranthene	100	93.5		ug/Kg		94	63 - 132	4	30	
Benzo[g,h,i]perylene	100	88.2		ug/Kg		88	55 - 139	5	28	
Benzo[k]fluoranthene	100	87.3		ug/Kg		87	63 - 119	11	30	
Benzoic acid	200	100	J	ug/Kg		50	29 - 158	5	28	
Benzyl alcohol	100	58.9		ug/Kg		59	55 - 123	2	60	
Bis(2-chloroethoxy)methane	100	58.5	*	ug/Kg		58	69 - 107	2	30	
Bis(2-chloroethyl)ether	100	53.9	*	ug/Kg		54	62 - 110	9	22	
Bis(2-ethylhexyl) phthalate	100	99.6		ug/Kg		100	62 - 144	5	30	
Butyl benzyl phthalate	100	111		ug/Kg		111	69 - 142	3	30	
Carbazole	100	96.1		ug/Kg		96	76 - 135	3	30	
Chrysene	100	98.6		ug/Kg		99	75 - 114	0	26	
Dibenz(a,h)anthracene	100	84.9		ug/Kg		85	56 - 134	21	30	
Dibenzofuran	100	62.5	*	ug/Kg		62	72 - 109	3	30	
Diethyl phthalate	100	96.3		ug/Kg		96	73 - 116	2	26	
Dimethyl phthalate	100	75.4	*	ug/Kg		75	78 - 117	2	30	
Di-n-butyl phthalate	100	88.0		ug/Kg		88	66 - 140	3	30	
Di-n-octyl phthalate	100	90.8		ug/Kg		91	65 - 141	7	30	
Fluoranthene	100	87.4		ug/Kg		87	73 - 125	4	30	
Fluorene	100	68.1	*	ug/Kg		68	70 - 121	4	30	
Hexachlorobenzene	100	76.8		ug/Kg		77	66 - 117	4	30	
Hexachlorobutadiene	100	61.0	*	ug/Kg		61	65 - 116	1	30	
Hexachlorocyclopentadiene	100	59.9		ug/Kg		60	46 - 131	8	29	
Hexachloroethane	100	58.7	*	ug/Kg		59	62 - 120	0	30	
Indeno[1,2,3-cd]pyrene	100	88.9		ug/Kg		89	56 - 127	9	29	
Isophorone	100	63.1	*	ug/Kg		63	67 - 119	4	30	
Naphthalene	100	61.9		ug/Kg		62	62 - 112	4	26	
Nitrobenzene	100	56.5	*	ug/Kg		56	64 - 118	4	30	
N-Nitrosodimethylamine	100	63.6	J	ug/Kg		64	38 - 133	4	30	
N-Nitrosodi-n-propylamine	100	63.6		ug/Kg		64	62 - 116	5	28	

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCSD 580-182433/3-A

Matrix: Solid

Analysis Batch: 182776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 182433

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodiphenylamine	100	76.2		ug/Kg		76	73 - 115	3	30
Pentachlorophenol	200	118		ug/Kg		59	45 - 117	21	23
Phenanthrene	100	80.4		ug/Kg		80	73 - 106	2	28
Phenol	100	62.4	*	ug/Kg		62	63 - 111	1	26
Pyrene	100	88.3		ug/Kg		88	70 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol	75		28 - 143
2-Fluorobiphenyl	71		42 - 140
2-Fluorophenol	73		36 - 145
Nitrobenzene-d5	69		38 - 141
Phenol-d5	75		38 - 149
Terphenyl-d14	91		42 - 151

Lab Sample ID: 580-47459-1 MS

Matrix: Solid

Analysis Batch: 182776

Client Sample ID: ST-CB-08-20150210-S

Prep Type: Total/NA

Prep Batch: 182433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	ND	*	197	110	F1	ug/Kg	☼	56	66 - 115
1,2-Dichlorobenzene	ND	*	197	95.8	J F1	ug/Kg	☼	49	64 - 112
1,3-Dichlorobenzene	ND	*	197	84.6	J F1	ug/Kg	☼	43	64 - 111
1,4-Dichlorobenzene	ND	*	197	88.0	J F1	ug/Kg	☼	45	65 - 110
1-Methylnaphthalene	52	J *	197	151	F1	ug/Kg	☼	50	62 - 118
2,2'-oxybis[1-chloropropane]	ND		197	94.0	J	ug/Kg	☼	48	41 - 126
2,4,5-Trichlorophenol	ND		197	150	J	ug/Kg	☼	76	57 - 133
2,4,6-Trichlorophenol	ND		197	151	J	ug/Kg	☼	77	62 - 133
2,4-Dichlorophenol	ND		197	144	J	ug/Kg	☼	73	68 - 125
2,4-Dimethylphenol	ND		197	146	J	ug/Kg	☼	74	54 - 139
2,4-Dinitrophenol	ND	^	394	ND	F1 ^	ug/Kg	☼	0	20 - 141
2,4-Dinitrotoluene	ND		197	172	J	ug/Kg	☼	87	68 - 121
2,6-Dinitrotoluene	ND		197	195	J	ug/Kg	☼	99	66 - 123
2-Chloronaphthalene	ND	*	197	140		ug/Kg	☼	71	68 - 112
2-Chlorophenol	ND	*	197	117	J F1	ug/Kg	☼	60	68 - 117
2-Methylnaphthalene	110	*	197	185	F1	ug/Kg	☼	36	64 - 119
2-Methylphenol	ND	*	197	135	J F1	ug/Kg	☼	69	71 - 116
2-Nitroaniline	ND		197	191	J	ug/Kg	☼	97	64 - 112
2-Nitrophenol	ND	*	197	135	J	ug/Kg	☼	69	67 - 127
3 & 4 Methylphenol	160	J *	197	245	J F1	ug/Kg	☼	45	70 - 116
3,3'-Dichlorobenzidine	ND		394	65.2	J F1	ug/Kg	☼	17	20 - 103
3-Nitroaniline	ND		197	110	J	ug/Kg	☼	56	27 - 103
4,6-Dinitro-2-methylphenol	ND		394	251	J	ug/Kg	☼	64	48 - 130
4-Bromophenyl phenyl ether	ND		197	154	J	ug/Kg	☼	78	68 - 122
4-Chloro-3-methylphenol	ND		197	177	J	ug/Kg	☼	90	69 - 121
4-Chloroaniline	ND		197	44.4	J	ug/Kg	☼	23	20 - 103
4-Chlorophenyl phenyl ether	ND	*	197	135	J F1	ug/Kg	☼	69	75 - 108
4-Nitroaniline	ND		197	112	J F1	ug/Kg	☼	57	58 - 108
4-Nitrophenol	ND		394	ND		ug/Kg	☼	NC	20 - 165

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: 580-47459-1 MS

Matrix: Solid

Analysis Batch: 182776

Client Sample ID: ST-CB-08-20150210-S

Prep Type: Total/NA

Prep Batch: 182433

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Acenaphthene	120	*	197	228	F1	ug/Kg	☼	54	68 - 116
Acenaphthylene	44	*	197	168	F1	ug/Kg	☼	63	68 - 120
Anthracene	550		197	578	F1	ug/Kg	☼	14	73 - 116
Benzo[a]anthracene	1500		197	1110	4	ug/Kg	☼	-207	76 - 119
Benzo[a]pyrene	590		197	529	F1	ug/Kg	☼	-32	72 - 117
Benzo[b]fluoranthene	1400		197	1170	4	ug/Kg	☼	-119	63 - 132
Benzo[g,h,i]perylene	330		197	333	F1	ug/Kg	☼	4	55 - 139
Benzo[k]fluoranthene	530		197	570	F1	ug/Kg	☼	20	63 - 119
Benzoic acid	ND		394	ND		ug/Kg	☼	NC	29 - 158
Benzyl alcohol	ND		197	91.1	J F1	ug/Kg	☼	46	55 - 123
Bis(2-chloroethoxy)methane	ND	*	197	107	J F1	ug/Kg	☼	54	69 - 107
Bis(2-chloroethyl)ether	ND	*	197	91.5	J F1	ug/Kg	☼	46	62 - 110
Bis(2-ethylhexyl) phthalate	3300	B	197	2810	4	ug/Kg	☼	-265	62 - 144
Butyl benzyl phthalate	97	J B	197	451	F1	ug/Kg	☼	229	69 - 142
Carbazole	120	J	197	248	F1	ug/Kg	☼	64	76 - 135
Chrysene	2400		197	1750	4	ug/Kg	☼	-338	75 - 114
Dibenz(a,h)anthracene	100		197	217		ug/Kg	☼	57	56 - 134
Dibenzofuran	220	*	197	285	F1	ug/Kg	☼	33	72 - 109
Diethyl phthalate	150	J B	197	292	J F1	ug/Kg	☼	71	73 - 116
Dimethyl phthalate	ND	*	197	148	J F1	ug/Kg	☼	75	78 - 117
Di-n-butyl phthalate	ND		197	ND	F1	ug/Kg	☼	0	66 - 140
Di-n-octyl phthalate	ND		197	240	J	ug/Kg	☼	122	65 - 141
Fluoranthene	2200		197	1670	4	ug/Kg	☼	-271	73 - 125
Fluorene	240	*	197	314	F1	ug/Kg	☼	36	70 - 121
Hexachlorobenzene	ND		197	164		ug/Kg	☼	83	66 - 117
Hexachlorobutadiene	ND	*	197	80.2	J F1	ug/Kg	☼	41	65 - 116
Hexachlorocyclopentadiene	ND		197	ND	F1	ug/Kg	☼	0	46 - 131
Hexachloroethane	ND	*	197	113	J F1	ug/Kg	☼	57	62 - 120
Indeno[1,2,3-cd]pyrene	360		197	421	F1	ug/Kg	☼	31	56 - 127
Isophorone	ND	*	197	129	J F1	ug/Kg	☼	65	67 - 119
Naphthalene	93		197	162	F1	ug/Kg	☼	35	62 - 112
Nitrobenzene	ND	*	197	96.4	J F1	ug/Kg	☼	49	64 - 118
N-Nitrosodimethylamine	ND		197	ND		ug/Kg	☼	NC	38 - 133
N-Nitrosodi-n-propylamine	ND		197	148	J	ug/Kg	☼	75	62 - 116
N-Nitrosodiphenylamine	78	J	197	174	F1	ug/Kg	☼	49	73 - 115
Pentachlorophenol	ND		394	333	J	ug/Kg	☼	85	45 - 117
Phenanthrene	2000		197	688	4	ug/Kg	☼	-664	73 - 106
Phenol	ND	*	197	143	J	ug/Kg	☼	73	63 - 111
Pyrene	4100		197	2240	4	ug/Kg	☼	-957	70 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol	76		28 - 143
2-Fluorobiphenyl	66		42 - 140
2-Fluorophenol	60		36 - 145
Nitrobenzene-d5	48		38 - 141
Phenol-d5	62		38 - 149
Terphenyl-d14	86		42 - 151

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: 580-47459-1 MSD

Matrix: Solid

Analysis Batch: 182776

Client Sample ID: ST-CB-08-20150210-S

Prep Type: Total/NA

Prep Batch: 182433

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
1,2,4-Trichlorobenzene	ND	*	199	127	F1	ug/Kg	☼	64	66 - 115	14	28	
1,2-Dichlorobenzene	ND	*	199	103	J F1	ug/Kg	☼	52	64 - 112	7	60	
1,3-Dichlorobenzene	ND	*	199	98.8	J F1	ug/Kg	☼	50	64 - 111	15	60	
1,4-Dichlorobenzene	ND	*	199	93.1	J F1	ug/Kg	☼	47	65 - 110	6	32	
1-Methylnaphthalene	52	J *	199	166	F1	ug/Kg	☼	57	62 - 118	10	30	
2,2'-oxybis[1-chloropropane]	ND		199	106	J	ug/Kg	☼	53	41 - 126	12	60	
2,4,5-Trichlorophenol	ND		199	164	J	ug/Kg	☼	82	57 - 133	9	60	
2,4,6-Trichlorophenol	ND		199	171	J	ug/Kg	☼	86	62 - 133	12	60	
2,4-Dichlorophenol	ND		199	148	J	ug/Kg	☼	75	68 - 125	3	60	
2,4-Dimethylphenol	ND		199	169	J	ug/Kg	☼	85	54 - 139	15	60	
2,4-Dinitrophenol	ND	^	398	ND	^	ug/Kg	☼	NC	20 - 141	NC	60	
2,4-Dinitrotoluene	ND		199	125	J F1 F2	ug/Kg	☼	63	68 - 121	32	31	
2,6-Dinitrotoluene	ND		199	187	J	ug/Kg	☼	94	66 - 123	4	60	
2-Chloronaphthalene	ND	*	199	134	F1	ug/Kg	☼	67	68 - 112	4	25	
2-Chlorophenol	ND	*	199	129	J F1	ug/Kg	☼	65	68 - 117	10	27	
2-Methylnaphthalene	110	*	199	210	F1	ug/Kg	☼	48	64 - 119	13	27	
2-Methylphenol	ND	*	199	133	J F1	ug/Kg	☼	67	71 - 116	1	25	
2-Nitroaniline	ND		199	182	J	ug/Kg	☼	92	64 - 112	5	60	
2-Nitrophenol	ND	*	199	138	J	ug/Kg	☼	69	67 - 127	2	60	
3 & 4 Methylphenol	160	J *	199	303	J	ug/Kg	☼	74	70 - 116	21	27	
3,3'-Dichlorobenzidine	ND		398	ND	F1	ug/Kg	☼	0	20 - 103	NC	60	
3-Nitroaniline	ND		199	105	J	ug/Kg	☼	53	27 - 103	5	60	
4,6-Dinitro-2-methylphenol	ND		398	306	J	ug/Kg	☼	77	48 - 130	20	60	
4-Bromophenyl phenyl ether	ND		199	211		ug/Kg	☼	106	68 - 122	31	60	
4-Chloro-3-methylphenol	ND		199	189	J	ug/Kg	☼	95	69 - 121	6	27	
4-Chloroaniline	ND		199	58.0	J	ug/Kg	☼	29	20 - 103	27	60	
4-Chlorophenyl phenyl ether	ND	*	199	175	J	ug/Kg	☼	88	75 - 108	25	60	
4-Nitroaniline	ND		199	136	J	ug/Kg	☼	68	58 - 108	20	60	
4-Nitrophenol	ND		398	ND		ug/Kg	☼	NC	20 - 165	NC	33	
Acenaphthene	120	*	199	259		ug/Kg	☼	69	68 - 116	13	27	
Acenaphthylene	44	*	199	184		ug/Kg	☼	70	68 - 120	9	28	
Anthracene	550		199	644	F1	ug/Kg	☼	48	73 - 116	11	27	
Benzo[a]anthracene	1500		199	1520	4 F2	ug/Kg	☼	3	76 - 119	32	27	
Benzo[a]pyrene	590		199	723	F1 F2	ug/Kg	☼	66	72 - 117	31	30	
Benzo[b]fluoranthene	1400		199	1620	4 F2	ug/Kg	☼	109	63 - 132	32	31	
Benzo[g,h,i]perylene	330		199	415	F1	ug/Kg	☼	45	55 - 139	22	28	
Benzo[k]fluoranthene	530		199	636	F1	ug/Kg	☼	53	63 - 119	11	31	
Benzoic acid	ND		398	ND		ug/Kg	☼	NC	29 - 158	NC	60	
Benzyl alcohol	ND		199	146	J	ug/Kg	☼	73	55 - 123	46	60	
Bis(2-chloroethoxy)methane	ND	*	199	127	J F1	ug/Kg	☼	64	69 - 107	18	60	
Bis(2-chloroethyl)ether	ND	*	199	126	J	ug/Kg	☼	63	62 - 110	32	60	
Bis(2-ethylhexyl) phthalate	3300	B	199	3830	4	ug/Kg	☼	250	62 - 144	31	60	
Butyl benzyl phthalate	97	J B	199	410	F1	ug/Kg	☼	206	69 - 142	10	60	
Carbazole	120	J	199	291		ug/Kg	☼	85	76 - 135	16	60	
Chrysene	2400		199	2260	4	ug/Kg	☼	-77	75 - 114	26	26	
Dibenz(a,h)anthracene	100		199	244		ug/Kg	☼	71	56 - 134	12	30	
Dibenzofuran	220	*	199	348	F1	ug/Kg	☼	65	72 - 109	20	60	
Diethyl phthalate	150	J B	199	313	J	ug/Kg	☼	81	73 - 116	7	26	

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: 580-47459-1 MSD

Matrix: Solid

Analysis Batch: 182776

Client Sample ID: ST-CB-08-20150210-S

Prep Type: Total/NA

Prep Batch: 182433

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Dimethyl phthalate	ND	*	199	173	J	ug/Kg	☼	87	78 - 117	16	60
Di-n-butyl phthalate	ND		199	ND	F1	ug/Kg	☼	0	66 - 140	NC	60
Di-n-octyl phthalate	ND		199	347	J F1 F2	ug/Kg	☼	175	65 - 141	36	31
Fluoranthene	2200		199	2240	4	ug/Kg	☼	17	73 - 125	29	36
Fluorene	240	*	199	378	F1	ug/Kg	☼	67	70 - 121	18	31
Hexachlorobenzene	ND		199	183		ug/Kg	☼	92	66 - 117	11	60
Hexachlorobutadiene	ND	*	199	131		ug/Kg	☼	66	65 - 116	48	60
Hexachlorocyclopentadiene	ND		199	ND	F1	ug/Kg	☼	0	46 - 131	NC	60
Hexachloroethane	ND	*	199	102	J F1	ug/Kg	☼	52	62 - 120	10	60
Indeno[1,2,3-cd]pyrene	360		199	511		ug/Kg	☼	76	56 - 127	19	29
Isophorone	ND	*	199	133	J	ug/Kg	☼	67	67 - 119	4	60
Naphthalene	93		199	211	F1	ug/Kg	☼	60	62 - 112	26	26
Nitrobenzene	ND	*	199	112	J F1	ug/Kg	☼	56	64 - 118	15	60
N-Nitrosodimethylamine	ND		199	ND		ug/Kg	☼	NC	38 - 133	NC	60
N-Nitrosodi-n-propylamine	ND		199	167	J	ug/Kg	☼	84	62 - 116	13	28
N-Nitrosodiphenylamine	78	J	199	241		ug/Kg	☼	82	73 - 115	32	60
Pentachlorophenol	ND		398	362	J	ug/Kg	☼	91	45 - 117	8	68
Phenanthrene	2000		199	899	4	ug/Kg	☼	-551	73 - 106	27	28
Phenol	ND	*	199	141	J	ug/Kg	☼	71	63 - 111	2	26
Pyrene	4100		199	3100	4 F2	ug/Kg	☼	-513	70 - 120	32	31

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	78		28 - 143
2-Fluorobiphenyl	79		42 - 140
2-Fluorophenol	58		36 - 145
Nitrobenzene-d5	76		38 - 141
Phenol-d5	62		38 - 149
Terphenyl-d14	106		42 - 151

Lab Sample ID: MB 580-182612/1-A

Matrix: Water

Analysis Batch: 182836

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 182612

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
1,2-Dichlorobenzene	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
1,3-Dichlorobenzene	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
1,4-Dichlorobenzene	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
1-Methylnaphthalene	ND		0.060	0.030	ug/L		02/17/15 11:49	02/19/15 19:24	1
2,2'-oxybis[1-chloropropane]	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
2,4,5-Trichlorophenol	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
2,4,6-Trichlorophenol	ND		0.60	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
2,4-Dichlorophenol	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
2,4-Dimethylphenol	ND		2.0	0.30	ug/L		02/17/15 11:49	02/19/15 19:24	1
2,4-Dinitrophenol	ND	^	5.0	1.0	ug/L		02/17/15 11:49	02/19/15 19:24	1
2,4-Dinitrotoluene	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
2,6-Dinitrotoluene	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
2-Chloronaphthalene	ND		0.060	0.020	ug/L		02/17/15 11:49	02/19/15 19:24	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: MB 580-182612/1-A

Matrix: Water

Analysis Batch: 182836

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 182612

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorophenol	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		02/17/15 11:49	02/19/15 19:24	1
2-Methylphenol	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
2-Nitroaniline	ND	^	0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
2-Nitrophenol	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
3 & 4 Methylphenol	ND		0.80	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
3,3'-Dichlorobenzidine	ND		2.0	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
3-Nitroaniline	ND		0.40	0.12	ug/L		02/17/15 11:49	02/19/15 19:24	1
4,6-Dinitro-2-methylphenol	ND		4.0	1.0	ug/L		02/17/15 11:49	02/19/15 19:24	1
4-Bromophenyl phenyl ether	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
4-Chloro-3-methylphenol	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
4-Chloroaniline	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
4-Chlorophenyl phenyl ether	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
4-Nitroaniline	ND	^	0.60	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
4-Nitrophenol	ND		3.0	1.0	ug/L		02/17/15 11:49	02/19/15 19:24	1
Acenaphthene	ND		0.10	0.020	ug/L		02/17/15 11:49	02/19/15 19:24	1
Acenaphthylene	ND		0.080	0.020	ug/L		02/17/15 11:49	02/19/15 19:24	1
Anthracene	ND		0.040	0.010	ug/L		02/17/15 11:49	02/19/15 19:24	1
Benzo[a]anthracene	ND		0.060	0.020	ug/L		02/17/15 11:49	02/19/15 19:24	1
Benzo[a]pyrene	ND		0.040	0.020	ug/L		02/17/15 11:49	02/19/15 19:24	1
Benzo[b]fluoranthene	ND		0.080	0.020	ug/L		02/17/15 11:49	02/19/15 19:24	1
Benzo[g,h,i]perylene	ND		0.060	0.020	ug/L		02/17/15 11:49	02/19/15 19:24	1
Benzo[k]fluoranthene	ND		0.060	0.020	ug/L		02/17/15 11:49	02/19/15 19:24	1
Benzoic acid	ND	^	3.0	0.60	ug/L		02/17/15 11:49	02/19/15 19:24	1
Benzyl alcohol	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Bis(2-chloroethoxy)methane	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Bis(2-chloroethyl)ether	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Bis(2-ethylhexyl) phthalate	ND		3.0	1.2	ug/L		02/17/15 11:49	02/19/15 19:24	1
Butyl benzyl phthalate	ND		0.60	0.20	ug/L		02/17/15 11:49	02/19/15 19:24	1
Carbazole	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Chrysene	ND		0.040	0.013	ug/L		02/17/15 11:49	02/19/15 19:24	1
Dibenz(a,h)anthracene	ND		0.060	0.020	ug/L		02/17/15 11:49	02/19/15 19:24	1
Dibenzofuran	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Diethyl phthalate	0.188	J	0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Dimethyl phthalate	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Di-n-butyl phthalate	ND		0.40	0.13	ug/L		02/17/15 11:49	02/19/15 19:24	1
Di-n-octyl phthalate	ND		0.40	0.18	ug/L		02/17/15 11:49	02/19/15 19:24	1
Fluoranthene	ND		0.050	0.013	ug/L		02/17/15 11:49	02/19/15 19:24	1
Fluorene	ND		0.060	0.020	ug/L		02/17/15 11:49	02/19/15 19:24	1
Hexachlorobenzene	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Hexachlorobutadiene	ND		0.60	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Hexachlorocyclopentadiene	ND		2.0	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Hexachloroethane	ND		0.60	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Indeno[1,2,3-cd]pyrene	ND		0.060	0.020	ug/L		02/17/15 11:49	02/19/15 19:24	1
Isophorone	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Naphthalene	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Nitrobenzene	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
N-Nitrosodimethylamine	ND		2.0	0.20	ug/L		02/17/15 11:49	02/19/15 19:24	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: MB 580-182612/1-A

Matrix: Water

Analysis Batch: 182836

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 182612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
N-Nitrosodiphenylamine	ND		0.40	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Pentachlorophenol	ND		0.70	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Phenanthrene	ND		0.080	0.020	ug/L		02/17/15 11:49	02/19/15 19:24	1
Phenol	ND		0.60	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1
Pyrene	ND		0.060	0.013	ug/L		02/17/15 11:49	02/19/15 19:24	1
2,3,4,6-Tetrachlorophenol	ND		0.70	0.10	ug/L		02/17/15 11:49	02/19/15 19:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	81		44 - 125	02/17/15 11:49	02/19/15 19:24	1
2-Fluorobiphenyl	84		50 - 120	02/17/15 11:49	02/19/15 19:24	1
2-Fluorophenol	83		30 - 134	02/17/15 11:49	02/19/15 19:24	1
Nitrobenzene-d5	95		59 - 120	02/17/15 11:49	02/19/15 19:24	1
Phenol-d5	92		52 - 120	02/17/15 11:49	02/19/15 19:24	1
Terphenyl-d14	108		64 - 150	02/17/15 11:49	02/19/15 19:24	1

Lab Sample ID: LCS 580-182612/2-A

Matrix: Water

Analysis Batch: 182836

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 182612

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	2.00	1.80		ug/L		90	40 - 125
1,2-Dichlorobenzene	2.00	1.84		ug/L		92	44 - 125
1,3-Dichlorobenzene	2.00	1.77		ug/L		88	40 - 125
1,4-Dichlorobenzene	2.00	1.77		ug/L		89	40 - 125
1-Methylnaphthalene	2.00	2.02		ug/L		101	54 - 125
2,2'-oxybis[1-chloropropane]	2.00	2.09		ug/L		104	44 - 130
2,4,5-Trichlorophenol	2.00	2.20		ug/L		110	66 - 130
2,4,6-Trichlorophenol	2.00	2.14		ug/L		107	55 - 140
2,4-Dichlorophenol	2.00	2.24		ug/L		112	50 - 140
2,4-Dimethylphenol	2.00	1.04	J	ug/L		52	30 - 135
2,4-Dinitrophenol	4.00	3.20	J ^	ug/L		80	24 - 146
2,4-Dinitrotoluene	2.00	2.32		ug/L		116	73 - 126
2,6-Dinitrotoluene	2.00	2.33		ug/L		116	67 - 134
2-Chloronaphthalene	2.00	2.00		ug/L		100	55 - 125
2-Chlorophenol	2.00	2.24		ug/L		112	57 - 125
2-Methylnaphthalene	2.00	1.98		ug/L		99	56 - 125
2-Methylphenol	2.00	2.00		ug/L		100	60 - 130
2-Nitroaniline	2.00	2.54	^	ug/L		127	52 - 140
2-Nitrophenol	2.00	2.00		ug/L		100	55 - 140
3 & 4 Methylphenol	2.00	2.03		ug/L		102	60 - 130
3,3'-Dichlorobenzidine	4.00	ND	*	ug/L		0.07	20 - 175
3-Nitroaniline	2.00	0.536		ug/L		27	22 - 124
4,6-Dinitro-2-methylphenol	4.00	2.77	J	ug/L		69	50 - 136
4-Bromophenyl phenyl ether	2.00	2.22		ug/L		111	62 - 132
4-Chloro-3-methylphenol	2.00	2.28		ug/L		114	65 - 145
4-Chloroaniline	2.00	ND	*	ug/L		0.7	20 - 150
4-Chlorophenyl phenyl ether	2.00	2.19		ug/L		109	59 - 125

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCS 580-182612/2-A

Matrix: Water

Analysis Batch: 182836

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 182612

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	2.00	1.71	^	ug/L		85	49 - 125
4-Nitrophenol	4.00	4.59		ug/L		115	35 - 153
Acenaphthene	2.00	2.03		ug/L		101	63 - 125
Acenaphthylene	2.00	1.57		ug/L		79	62 - 125
Anthracene	2.00	0.721	*	ug/L		36	50 - 125
Benzo[a]anthracene	2.00	1.77		ug/L		89	65 - 125
Benzo[a]pyrene	2.00	0.546	*	ug/L		27	45 - 125
Benzo[b]fluoranthene	2.00	2.54		ug/L		127	70 - 129
Benzo[g,h,i]perylene	2.00	2.42		ug/L		121	65 - 153
Benzo[k]fluoranthene	2.00	2.23		ug/L		111	70 - 123
Benzoic acid	4.00	4.26	^	ug/L		107	20 - 144
Benzyl alcohol	2.00	2.34		ug/L		117	41 - 144
Bis(2-chloroethoxy)methane	2.00	2.20		ug/L		110	59 - 125
Bis(2-chloroethyl)ether	2.00	2.20		ug/L		110	55 - 125
Bis(2-ethylhexyl) phthalate	2.00	3.38		ug/L		169	70 - 185
Butyl benzyl phthalate	2.00	2.46		ug/L		123	60 - 167
Carbazole	2.00	2.35		ug/L		117	75 - 142
Chrysene	2.00	2.26		ug/L		113	70 - 125
Dibenz(a,h)anthracene	2.00	2.25		ug/L		113	69 - 154
Dibenzofuran	2.00	2.04		ug/L		102	60 - 125
Diethyl phthalate	2.00	2.31		ug/L		115	60 - 150
Dimethyl phthalate	2.00	2.31		ug/L		116	65 - 155
Di-n-butyl phthalate	2.00	2.32		ug/L		116	55 - 167
Di-n-octyl phthalate	2.00	2.54		ug/L		127	55 - 150
Fluoranthene	2.00	2.19		ug/L		109	70 - 145
Fluorene	2.00	2.14		ug/L		107	69 - 125
Hexachlorobenzene	2.00	2.15		ug/L		107	61 - 125
Hexachlorobutadiene	2.00	1.77		ug/L		88	25 - 125
Hexachlorocyclopentadiene	2.00	1.10	J	ug/L		55	20 - 125
Hexachloroethane	2.00	1.79		ug/L		89	30 - 125
Indeno[1,2,3-cd]pyrene	2.00	2.28		ug/L		114	70 - 136
Isophorone	2.00	2.28		ug/L		114	64 - 125
Naphthalene	2.00	1.94		ug/L		97	56 - 125
Nitrobenzene	2.00	2.29		ug/L		115	62 - 125
N-Nitrosodimethylamine	2.00	2.08		ug/L		104	33 - 143
N-Nitrosodi-n-propylamine	2.00	2.01		ug/L		101	60 - 120
N-Nitrosodiphenylamine	2.00	1.24		ug/L		62	40 - 135
Pentachlorophenol	4.00	3.64		ug/L		91	20 - 145
Phenanthrene	2.00	2.20		ug/L		110	70 - 125
Phenol	2.00	1.99		ug/L		100	53 - 130
Pyrene	2.00	2.17		ug/L		108	70 - 133
2,3,4,6-Tetrachlorophenol	2.00	2.14		ug/L		107	60 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	100		44 - 125
2-Fluorobiphenyl	89		50 - 120
2-Fluorophenol	95		30 - 134
Nitrobenzene-d5	108		59 - 120

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCS 580-182612/2-A

Matrix: Water

Analysis Batch: 182836

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 182612

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Phenol-d5	100		52 - 120
Terphenyl-d14	113		64 - 150

Lab Sample ID: LCSD 580-182612/3-A

Matrix: Water

Analysis Batch: 182836

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 182612

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	RPD	Limit
1,2,4-Trichlorobenzene	2.00	1.76		ug/L		88	40 - 125	3	20	
1,2-Dichlorobenzene	2.00	1.80		ug/L		90	44 - 125	3	20	
1,3-Dichlorobenzene	2.00	1.67		ug/L		84	40 - 125	6	20	
1,4-Dichlorobenzene	2.00	1.69		ug/L		85	40 - 125	5	20	
1-Methylnaphthalene	2.00	2.02		ug/L		101	54 - 125	0	20	
2,2'-oxybis[1-chloropropane]	2.00	2.01		ug/L		100	44 - 130	4	20	
2,4,5-Trichlorophenol	2.00	2.20		ug/L		110	66 - 130	0	20	
2,4,6-Trichlorophenol	2.00	2.14		ug/L		107	55 - 140	0	20	
2,4-Dichlorophenol	2.00	2.18		ug/L		109	50 - 140	3	20	
2,4-Dimethylphenol	2.00	1.09	J	ug/L		54	30 - 135	4	20	
2,4-Dinitrophenol	4.00	3.25	J ^	ug/L		81	24 - 146	2	20	
2,4-Dinitrotoluene	2.00	2.32		ug/L		116	73 - 126	0	20	
2,6-Dinitrotoluene	2.00	2.37		ug/L		118	67 - 134	2	20	
2-Chloronaphthalene	2.00	1.92		ug/L		96	55 - 125	4	20	
2-Chlorophenol	2.00	2.16		ug/L		108	57 - 125	4	20	
2-Methylnaphthalene	2.00	1.92		ug/L		96	56 - 125	3	20	
2-Methylphenol	2.00	1.99		ug/L		100	60 - 130	1	20	
2-Nitroaniline	2.00	2.49	^	ug/L		125	52 - 140	2	20	
2-Nitrophenol	2.00	1.96		ug/L		98	55 - 140	2	20	
3 & 4 Methylphenol	2.00	2.10		ug/L		105	60 - 130	3	20	
3,3'-Dichlorobenzidine	4.00	ND	*	ug/L		0.03	20 - 175	86	20	
3-Nitroaniline	2.00	0.733	*	ug/L		37	22 - 124	31	20	
4,6-Dinitro-2-methylphenol	4.00	2.79	J	ug/L		70	50 - 136	1	20	
4-Bromophenyl phenyl ether	2.00	2.14		ug/L		107	62 - 132	4	20	
4-Chloro-3-methylphenol	2.00	2.31		ug/L		115	65 - 145	1	20	
4-Chloroaniline	2.00	ND	*	ug/L		0.9	20 - 150	22	20	
4-Chlorophenyl phenyl ether	2.00	2.16		ug/L		108	59 - 125	1	20	
4-Nitroaniline	2.00	1.85	^	ug/L		92	49 - 125	8	20	
4-Nitrophenol	4.00	4.47		ug/L		112	35 - 153	3	20	
Acenaphthene	2.00	2.00		ug/L		100	63 - 125	2	20	
Acenaphthylene	2.00	1.46		ug/L		73	62 - 125	7	20	
Anthracene	2.00	0.751	*	ug/L		38	50 - 125	4	20	
Benzo[a]anthracene	2.00	1.80		ug/L		90	65 - 125	1	20	
Benzo[a]pyrene	2.00	0.621	*	ug/L		31	45 - 125	13	20	
Benzo[b]fluoranthene	2.00	2.46		ug/L		123	70 - 129	3	20	
Benzo[g,h,i]perylene	2.00	2.39		ug/L		120	65 - 153	1	20	
Benzo[k]fluoranthene	2.00	2.26		ug/L		113	70 - 123	1	20	
Benzoic acid	4.00	3.62	^	ug/L		90	20 - 144	16	20	
Benzyl alcohol	2.00	2.29		ug/L		114	41 - 144	2	20	
Bis(2-chloroethoxy)methane	2.00	2.14		ug/L		107	59 - 125	3	20	

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCSD 580-182612/3-A

Matrix: Water

Analysis Batch: 182836

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 182612

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							Limits	RPD	RPD	Limit
Bis(2-chloroethyl)ether	2.00	2.14		ug/L		107	55 - 125	3	20	
Bis(2-ethylhexyl) phthalate	2.00	2.53	J *	ug/L		127	70 - 185	29	20	
Butyl benzyl phthalate	2.00	2.47		ug/L		123	60 - 167	0	20	
Carbazole	2.00	2.32		ug/L		116	75 - 142	1	20	
Chrysene	2.00	2.30		ug/L		115	70 - 125	2	20	
Dibenz(a,h)anthracene	2.00	2.14		ug/L		107	69 - 154	5	20	
Dibenzofuran	2.00	1.97		ug/L		99	60 - 125	3	20	
Diethyl phthalate	2.00	2.33		ug/L		117	60 - 150	1	20	
Dimethyl phthalate	2.00	2.25		ug/L		112	65 - 155	3	20	
Di-n-butyl phthalate	2.00	2.30		ug/L		115	55 - 167	1	20	
Di-n-octyl phthalate	2.00	2.49		ug/L		124	55 - 150	2	20	
Fluoranthene	2.00	2.16		ug/L		108	70 - 145	1	20	
Fluorene	2.00	2.11		ug/L		106	69 - 125	1	20	
Hexachlorobenzene	2.00	2.09		ug/L		104	61 - 125	3	20	
Hexachlorobutadiene	2.00	1.60		ug/L		80	25 - 125	10	20	
Hexachlorocyclopentadiene	2.00	1.02	J	ug/L		51	20 - 125	8	20	
Hexachloroethane	2.00	1.66		ug/L		83	30 - 125	7	20	
Indeno[1,2,3-cd]pyrene	2.00	2.19		ug/L		109	70 - 136	4	20	
Isophorone	2.00	2.25		ug/L		112	64 - 125	2	20	
Naphthalene	2.00	1.89		ug/L		94	56 - 125	3	20	
Nitrobenzene	2.00	2.27		ug/L		113	62 - 125	1	20	
N-Nitrosodimethylamine	2.00	2.18		ug/L		109	33 - 143	5	20	
N-Nitrosodi-n-propylamine	2.00	1.96		ug/L		98	60 - 120	2	20	
N-Nitrosodiphenylamine	2.00	1.30		ug/L		65	40 - 135	5	20	
Pentachlorophenol	4.00	3.55		ug/L		89	20 - 145	2	20	
Phenanthrene	2.00	2.13		ug/L		107	70 - 125	3	20	
Phenol	2.00	1.96		ug/L		98	53 - 130	1	20	
Pyrene	2.00	2.13		ug/L		107	70 - 133	1	20	
2,3,4,6-Tetrachlorophenol	2.00	2.13		ug/L		106	60 - 130	0	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	95		44 - 125
2-Fluorobiphenyl	84		50 - 120
2-Fluorophenol	87		30 - 134
Nitrobenzene-d5	109		59 - 120
Phenol-d5	96		52 - 120
Terphenyl-d14	109		64 - 150

Lab Sample ID: MB 580-183304/1-A

Matrix: Solid

Analysis Batch: 183363

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183304

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		5.0	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
1,2-Dichlorobenzene	ND		5.5	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
1,3-Dichlorobenzene	ND		5.0	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
1,4-Dichlorobenzene	ND		5.0	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
1-Methylnaphthalene	ND		3.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: MB 580-183304/1-A

Matrix: Solid

Analysis Batch: 183363

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183304

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,2'-oxybis[1-chloropropane]	ND		25	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
2,4,5-Trichlorophenol	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
2,4,6-Trichlorophenol	ND		15	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
2,4-Dichlorophenol	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
2,4-Dimethylphenol	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
2,4-Dinitrophenol	ND		100	20	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
2,4-Dinitrotoluene	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
2,6-Dinitrotoluene	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
2-Chloronaphthalene	ND		2.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
2-Chlorophenol	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
2-Methylnaphthalene	ND		2.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
2-Methylphenol	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
2-Nitroaniline	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
2-Nitrophenol	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
3 & 4 Methylphenol	ND		20	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
3,3'-Dichlorobenzidine	ND		20	3.0	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
3-Nitroaniline	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
4,6-Dinitro-2-methylphenol	ND		100	10	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
4-Bromophenyl phenyl ether	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
4-Chloro-3-methylphenol	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
4-Chloroaniline	ND	^	10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
4-Chlorophenyl phenyl ether	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
4-Nitroaniline	ND		10	2.0	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
4-Nitrophenol	ND		100	25	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Acenaphthene	ND		2.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Acenaphthylene	ND		2.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Anthracene	ND		2.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Benzo[a]anthracene	ND		2.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Benzo[a]pyrene	ND		3.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Benzo[b]fluoranthene	ND		2.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Benzo[g,h,i]perylene	ND		2.5	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Benzo[k]fluoranthene	ND		2.5	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Benzoic acid	ND		250	75	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Benzyl alcohol	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Bis(2-chloroethoxy)methane	ND		10	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Bis(2-chloroethyl)ether	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Bis(2-ethylhexyl) phthalate	ND		60	5.0	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Butyl benzyl phthalate	ND		20	5.0	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Carbazole	ND		10	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Chrysene	ND		2.5	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Dibenz(a,h)anthracene	ND		4.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Dibenzofuran	ND		10	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Diethyl phthalate	5.22	J	20	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Dimethyl phthalate	ND		10	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Di-n-butyl phthalate	ND		50	5.0	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Di-n-octyl phthalate	ND		50	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Fluoranthene	ND		2.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Fluorene	ND		2.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: MB 580-183304/1-A

Matrix: Solid

Analysis Batch: 183363

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		5.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Hexachlorobutadiene	ND		5.0	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Hexachlorocyclopentadiene	ND		10	1.0	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Hexachloroethane	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Indeno[1,2,3-cd]pyrene	ND		4.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Isophorone	ND		10	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Naphthalene	ND		2.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Nitrobenzene	ND		10	3.4	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
N-Nitrosodimethylamine	ND		100	25	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
N-Nitrosodi-n-propylamine	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
N-Nitrosodiphenylamine	ND		5.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Pentachlorophenol	ND		20	2.0	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Phenanthrene	ND		2.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Phenol	ND		10	1.5	ug/Kg		02/26/15 14:48	02/27/15 11:00	1
Pyrene	ND		2.0	0.50	ug/Kg		02/26/15 14:48	02/27/15 11:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		28 - 143	02/26/15 14:48	02/27/15 11:00	1
2-Fluorobiphenyl	98		42 - 140	02/26/15 14:48	02/27/15 11:00	1
2-Fluorophenol	99		36 - 145	02/26/15 14:48	02/27/15 11:00	1
Nitrobenzene-d5	86		38 - 141	02/26/15 14:48	02/27/15 11:00	1
Phenol-d5	96		38 - 149	02/26/15 14:48	02/27/15 11:00	1
Terphenyl-d14	109		42 - 151	02/26/15 14:48	02/27/15 11:00	1

Lab Sample ID: LCS 580-183304/2-A

Matrix: Solid

Analysis Batch: 183363

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 183304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	100	98.1		ug/Kg		98	66 - 115
1,2-Dichlorobenzene	100	101		ug/Kg		101	64 - 112
1,3-Dichlorobenzene	100	98.9		ug/Kg		99	64 - 111
1,4-Dichlorobenzene	100	96.3		ug/Kg		96	65 - 110
1-Methylnaphthalene	100	99.7		ug/Kg		100	62 - 118
2,2'-oxybis[1-chloropropane]	100	89.0		ug/Kg		89	41 - 126
2,4,5-Trichlorophenol	100	99.1		ug/Kg		99	57 - 133
2,4,6-Trichlorophenol	100	99.6		ug/Kg		100	62 - 133
2,4-Dichlorophenol	100	99.1		ug/Kg		99	68 - 125
2,4-Dimethylphenol	100	92.8		ug/Kg		93	54 - 139
2,4-Dinitrophenol	200	167		ug/Kg		83	20 - 141
2,4-Dinitrotoluene	100	90.1		ug/Kg		90	68 - 121
2,6-Dinitrotoluene	100	98.6		ug/Kg		99	66 - 123
2-Chloronaphthalene	100	98.9		ug/Kg		99	68 - 112
2-Chlorophenol	100	97.4		ug/Kg		97	68 - 117
2-Methylnaphthalene	100	98.1		ug/Kg		98	64 - 119
2-Methylphenol	100	89.7		ug/Kg		90	71 - 116
2-Nitroaniline	100	97.0		ug/Kg		97	64 - 112
2-Nitrophenol	100	93.8		ug/Kg		94	67 - 127

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCS 580-183304/2-A

Matrix: Solid

Analysis Batch: 183363

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 183304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3 & 4 Methylphenol	100	102		ug/Kg		102	70 - 116
3,3'-Dichlorobenzidine	200	117		ug/Kg		58	20 - 103
3-Nitroaniline	100	71.2		ug/Kg		71	27 - 103
4,6-Dinitro-2-methylphenol	200	198		ug/Kg		99	48 - 130
4-Bromophenyl phenyl ether	100	103		ug/Kg		103	68 - 122
4-Chloro-3-methylphenol	100	105		ug/Kg		105	69 - 121
4-Chloroaniline	100	45.3	^	ug/Kg		45	20 - 103
4-Chlorophenyl phenyl ether	100	97.3		ug/Kg		97	75 - 108
4-Nitroaniline	100	96.4		ug/Kg		96	58 - 108
4-Nitrophenol	200	198		ug/Kg		99	20 - 165
Acenaphthene	100	99.6		ug/Kg		100	68 - 116
Acenaphthylene	100	93.7		ug/Kg		94	68 - 120
Anthracene	100	102		ug/Kg		102	73 - 116
Benzo[a]anthracene	100	103		ug/Kg		103	76 - 119
Benzo[a]pyrene	100	100		ug/Kg		100	72 - 117
Benzo[b]fluoranthene	100	106		ug/Kg		106	63 - 132
Benzo[g,h,i]perylene	100	103		ug/Kg		103	55 - 139
Benzo[k]fluoranthene	100	118		ug/Kg		118	63 - 119
Benzoic acid	200	ND		ug/Kg		29	29 - 158
Benzyl alcohol	100	84.3		ug/Kg		84	55 - 123
Bis(2-chloroethoxy)methane	100	88.4		ug/Kg		88	69 - 107
Bis(2-chloroethyl)ether	100	89.2		ug/Kg		89	62 - 110
Bis(2-ethylhexyl) phthalate	100	115		ug/Kg		115	62 - 144
Butyl benzyl phthalate	100	120		ug/Kg		120	69 - 142
Carbazole	100	117		ug/Kg		117	76 - 135
Chrysene	100	113		ug/Kg		113	75 - 114
Dibenz(a,h)anthracene	100	114		ug/Kg		114	56 - 134
Dibenzofuran	100	93.6		ug/Kg		94	72 - 109
Diethyl phthalate	100	105		ug/Kg		105	73 - 116
Dimethyl phthalate	100	98.7		ug/Kg		99	78 - 117
Di-n-butyl phthalate	100	95.6		ug/Kg		96	66 - 140
Di-n-octyl phthalate	100	105		ug/Kg		105	65 - 141
Fluoranthene	100	105		ug/Kg		105	73 - 125
Fluorene	100	101		ug/Kg		101	70 - 121
Hexachlorobenzene	100	110		ug/Kg		110	66 - 117
Hexachlorobutadiene	100	94.4		ug/Kg		94	65 - 116
Hexachlorocyclopentadiene	100	100		ug/Kg		100	46 - 131
Hexachloroethane	100	96.9		ug/Kg		97	62 - 120
Indeno[1,2,3-cd]pyrene	100	113		ug/Kg		113	56 - 127
Isophorone	100	97.5		ug/Kg		98	67 - 119
Naphthalene	100	102		ug/Kg		102	62 - 112
Nitrobenzene	100	89.7		ug/Kg		90	64 - 118
N-Nitrosodimethylamine	100	88.3	J	ug/Kg		88	38 - 133
N-Nitrosodi-n-propylamine	100	93.7		ug/Kg		94	62 - 116
N-Nitrosodiphenylamine	100	86.7		ug/Kg		87	73 - 115
Pentachlorophenol	200	166		ug/Kg		83	45 - 117
Phenanthrene	100	107	*	ug/Kg		107	73 - 106
Phenol	100	96.2		ug/Kg		96	63 - 111

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCS 580-183304/2-A

Matrix: Solid

Analysis Batch: 183363

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 183304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyrene	100	103		ug/Kg		103	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	93		28 - 143
2-Fluorobiphenyl	101		42 - 140
2-Fluorophenol	105		36 - 145
Nitrobenzene-d5	96		38 - 141
Phenol-d5	99		38 - 149
Terphenyl-d14	112		42 - 151

Lab Sample ID: LCSD 580-183304/3-A

Matrix: Solid

Analysis Batch: 183363

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 183304

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	100	96.6		ug/Kg		97	66 - 115	2	28
1,2-Dichlorobenzene	100	105		ug/Kg		105	64 - 112	4	30
1,3-Dichlorobenzene	100	101		ug/Kg		101	64 - 111	2	30
1,4-Dichlorobenzene	100	102		ug/Kg		102	65 - 110	6	30
1-Methylnaphthalene	100	99.3		ug/Kg		99	62 - 118	0	30
2,2'-oxybis[1-chloropropane]	100	94.7		ug/Kg		95	41 - 126	6	57
2,4,5-Trichlorophenol	100	102		ug/Kg		102	57 - 133	3	30
2,4,6-Trichlorophenol	100	87.5		ug/Kg		87	62 - 133	13	30
2,4-Dichlorophenol	100	107		ug/Kg		107	68 - 125	7	30
2,4-Dimethylphenol	100	93.4		ug/Kg		93	54 - 139	1	30
2,4-Dinitrophenol	200	150		ug/Kg		75	20 - 141	11	36
2,4-Dinitrotoluene	100	90.7		ug/Kg		91	68 - 121	1	30
2,6-Dinitrotoluene	100	96.0		ug/Kg		96	66 - 123	3	30
2-Chloronaphthalene	100	100		ug/Kg		100	68 - 112	1	25
2-Chlorophenol	100	107		ug/Kg		107	68 - 117	10	27
2-Methylnaphthalene	100	99.4		ug/Kg		99	64 - 119	1	27
2-Methylphenol	100	96.1		ug/Kg		96	71 - 116	7	25
2-Nitroaniline	100	88.5		ug/Kg		88	64 - 112	9	22
2-Nitrophenol	100	102		ug/Kg		102	67 - 127	8	30
3 & 4 Methylphenol	100	112		ug/Kg		112	70 - 116	10	27
3,3'-Dichlorobenzidine	200	113		ug/Kg		56	20 - 103	3	60
3-Nitroaniline	100	71.1		ug/Kg		71	27 - 103	0	33
4,6-Dinitro-2-methylphenol	200	196		ug/Kg		98	48 - 130	1	22
4-Bromophenyl phenyl ether	100	100		ug/Kg		100	68 - 122	3	30
4-Chloro-3-methylphenol	100	105		ug/Kg		105	69 - 121	0	27
4-Chloroaniline	100	48.3	^	ug/Kg		48	20 - 103	6	60
4-Chlorophenyl phenyl ether	100	91.8		ug/Kg		92	75 - 108	6	30
4-Nitroaniline	100	86.3		ug/Kg		86	58 - 108	11	32
4-Nitrophenol	200	182		ug/Kg		91	20 - 165	9	30
Acenaphthene	100	98.3		ug/Kg		98	68 - 116	1	27
Acenaphthylene	100	94.9		ug/Kg		95	68 - 120	1	28
Anthracene	100	103		ug/Kg		103	73 - 116	1	27
Benzo[a]anthracene	100	104		ug/Kg		104	76 - 119	0	27

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCSD 580-183304/3-A

Matrix: Solid

Analysis Batch: 183363

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 183304

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Benzo[a]pyrene	100	100		ug/Kg		100	72 - 117	0	30	
Benzo[b]fluoranthene	100	104		ug/Kg		104	63 - 132	2	30	
Benzo[g,h,i]perylene	100	106		ug/Kg		106	55 - 139	2	28	
Benzo[k]fluoranthene	100	117		ug/Kg		117	63 - 119	1	30	
Benzoic acid	200	ND	*	ug/Kg		26	29 - 158	13	28	
Benzyl alcohol	100	93.2		ug/Kg		93	55 - 123	10	60	
Bis(2-chloroethoxy)methane	100	87.1		ug/Kg		87	69 - 107	2	30	
Bis(2-chloroethyl)ether	100	97.3		ug/Kg		97	62 - 110	9	22	
Bis(2-ethylhexyl) phthalate	100	119		ug/Kg		119	62 - 144	3	30	
Butyl benzyl phthalate	100	120		ug/Kg		120	69 - 142	0	30	
Carbazole	100	111		ug/Kg		111	76 - 135	5	30	
Chrysene	100	116	*	ug/Kg		116	75 - 114	2	26	
Dibenz(a,h)anthracene	100	108		ug/Kg		108	56 - 134	5	30	
Dibenzofuran	100	97.7		ug/Kg		98	72 - 109	4	30	
Diethyl phthalate	100	105		ug/Kg		105	73 - 116	0	26	
Dimethyl phthalate	100	96.1		ug/Kg		96	78 - 117	3	30	
Di-n-butyl phthalate	100	96.8		ug/Kg		97	66 - 140	1	30	
Di-n-octyl phthalate	100	105		ug/Kg		105	65 - 141	0	30	
Fluoranthene	100	104		ug/Kg		104	73 - 125	1	30	
Fluorene	100	95.6		ug/Kg		96	70 - 121	5	30	
Hexachlorobenzene	100	107		ug/Kg		107	66 - 117	3	30	
Hexachlorobutadiene	100	98.9		ug/Kg		99	65 - 116	5	30	
Hexachlorocyclopentadiene	100	96.0		ug/Kg		96	46 - 131	4	29	
Hexachloroethane	100	97.1		ug/Kg		97	62 - 120	0	30	
Indeno[1,2,3-cd]pyrene	100	104		ug/Kg		104	56 - 127	8	29	
Isophorone	100	94.5		ug/Kg		94	67 - 119	3	30	
Naphthalene	100	103		ug/Kg		103	62 - 112	1	26	
Nitrobenzene	100	85.2		ug/Kg		85	64 - 118	5	30	
N-Nitrosodimethylamine	100	90.4	J	ug/Kg		90	38 - 133	2	30	
N-Nitrosodi-n-propylamine	100	104		ug/Kg		104	62 - 116	10	28	
N-Nitrosodiphenylamine	100	86.3		ug/Kg		86	73 - 115	0	30	
Pentachlorophenol	200	169		ug/Kg		85	45 - 117	2	23	
Phenanthrene	100	104		ug/Kg		104	73 - 106	2	28	
Phenol	100	96.4		ug/Kg		96	63 - 111	0	26	
Pyrene	100	102		ug/Kg		102	70 - 120	1	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	95		28 - 143
2-Fluorobiphenyl	98		42 - 140
2-Fluorophenol	110		36 - 145
Nitrobenzene-d5	94		38 - 141
Phenol-d5	103		38 - 149
Terphenyl-d14	106		42 - 151

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: MB 580-182397/1-A
Matrix: Solid
Analysis Batch: 182404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1.81	J	4.0	0.50	mg/Kg		02/12/15 15:11	02/12/15 18:41	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		50 - 150				02/12/15 15:11	02/12/15 18:41	1

Lab Sample ID: LCS 580-182397/3-A
Matrix: Solid
Analysis Batch: 182404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Gasoline	40.0	40.5		mg/Kg		101	68 - 120		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	106		50 - 150						

Lab Sample ID: LCSD 580-182397/4-A
Matrix: Solid
Analysis Batch: 182404

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 182397

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Gasoline	40.0	39.7		mg/Kg		99	68 - 120	2	25
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	103		50 - 150						

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

Lab Sample ID: MB 580-182829/1-A
Matrix: Solid
Analysis Batch: 182926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	ND		0.010	0.0032	mg/Kg		02/20/15 08:00	02/20/15 18:24	1
Arochlor 1221	ND		0.011	0.0080	mg/Kg		02/20/15 08:00	02/20/15 18:24	1
Arochlor 1232	ND		0.011	0.0070	mg/Kg		02/20/15 08:00	02/20/15 18:24	1
Arochlor 1242	ND		0.010	0.0021	mg/Kg		02/20/15 08:00	02/20/15 18:24	1
Arochlor 1248	ND		0.010	0.0030	mg/Kg		02/20/15 08:00	02/20/15 18:24	1
Arochlor 1254	ND		0.010	0.0021	mg/Kg		02/20/15 08:00	02/20/15 18:24	1
Arochlor 1260	ND		0.010	0.0030	mg/Kg		02/20/15 08:00	02/20/15 18:24	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		45 - 135				02/20/15 08:00	02/20/15 18:24	1
DCB Decachlorobiphenyl	90		50 - 140				02/20/15 08:00	02/20/15 18:24	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCS 580-182829/2-A

Matrix: Solid

Analysis Batch: 182926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 182829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Arochlor 1016	0.100	0.0726		mg/Kg		73	40 - 140	
Arochlor 1260	0.100	0.0813		mg/Kg		81	60 - 130	
Surrogate		LCS %Recovery	LCS Qualifier			Limits		
Tetrachloro-m-xylene		66				45 - 135		
DCB Decachlorobiphenyl		88				50 - 140		

Lab Sample ID: LCSD 580-182829/3-A

Matrix: Solid

Analysis Batch: 182926

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 182829

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits		RPD	Limit
Arochlor 1016	0.100	0.0761		mg/Kg		76	40 - 140		5	20
Arochlor 1260	0.100	0.0822		mg/Kg		82	60 - 130		1	20
Surrogate		LCSD %Recovery	LCSD Qualifier			Limits				
Tetrachloro-m-xylene		69				45 - 135				
DCB Decachlorobiphenyl		88				50 - 140				

Lab Sample ID: 580-47459-1 MS

Matrix: Solid

Analysis Batch: 182926

Client Sample ID: ST-CB-08-20150210-S

Prep Type: Total/NA

Prep Batch: 182829

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	
Arochlor 1016	ND		0.200	0.240		mg/Kg	☼	120	40 - 140	
Arochlor 1260	0.074		0.200	0.213		mg/Kg	☼	70	60 - 130	
Surrogate		MS %Recovery	MS Qualifier			Limits				
Tetrachloro-m-xylene		81				45 - 135				
DCB Decachlorobiphenyl		75				50 - 140				

Lab Sample ID: 580-47459-1 MSD

Matrix: Solid

Analysis Batch: 182926

Client Sample ID: ST-CB-08-20150210-S

Prep Type: Total/NA

Prep Batch: 182829

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
									Limits		RPD	Limit
Arochlor 1016	ND		0.197	0.180	F2	mg/Kg	☼	91	40 - 140		28	20
Arochlor 1260	0.074		0.197	0.177	F1	mg/Kg	☼	52	60 - 130		19	20
Surrogate		MSD %Recovery	MSD Qualifier			Limits						
Tetrachloro-m-xylene		68				45 - 135						
DCB Decachlorobiphenyl		68				50 - 140						

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: MB 580-182463/1-A

Matrix: Solid

Analysis Batch: 182566

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 182463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		25	5.7	mg/Kg		02/13/15 10:52	02/17/15 10:35	1
Motor Oil (>C24-C36)	ND		50	9.1	mg/Kg		02/13/15 10:52	02/17/15 10:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	56		50 - 150	02/13/15 10:52	02/17/15 10:35	1

Lab Sample ID: LCS 580-182463/2-A

Matrix: Solid

Analysis Batch: 182566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 182463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	500	349		mg/Kg		70	70 - 125
Motor Oil (>C24-C36)	502	380		mg/Kg		76	64 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	58		50 - 150

Lab Sample ID: LCSD 580-182463/3-A

Matrix: Solid

Analysis Batch: 182566

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 182463

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	500	364		mg/Kg		73	70 - 125	4	16
Motor Oil (>C24-C36)	502	401		mg/Kg		80	64 - 127	6	17

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	56		50 - 150

Lab Sample ID: 580-47459-1 MS

Matrix: Solid

Analysis Batch: 182566

Client Sample ID: ST-CB-08-20150210-S

Prep Type: Total/NA

Prep Batch: 182463

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
#2 Diesel (C10-C24)	930	Y	994	669	F1	mg/Kg	☼	-27	70 - 125
Motor Oil (>C24-C36)	2700	Y	998	1950	F1	mg/Kg	☼	-74	64 - 127

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	32	X	50 - 150

Lab Sample ID: 580-47459-1 MSD

Matrix: Solid

Analysis Batch: 182566

Client Sample ID: ST-CB-08-20150210-S

Prep Type: Total/NA

Prep Batch: 182463

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
#2 Diesel (C10-C24)	930	Y	979	1360	F1 F2	mg/Kg	☼	44	70 - 125	68	16
Motor Oil (>C24-C36)	2700	Y	983	4080	F1 F2	mg/Kg	☼	141	64 - 127	70	17

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: 580-47459-1 MSD
Matrix: Solid
Analysis Batch: 182566

Client Sample ID: ST-CB-08-20150210-S
Prep Type: Total/NA
Prep Batch: 182463

Surrogate	MSD %Recovery	MSD Qualifier	Limits
<i>o</i> -Terphenyl	58		50 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-232396/3
Matrix: Water
Analysis Batch: 232396

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.70	mg/L			03/09/15 21:16	1
Sulfate	ND		1.0	0.60	mg/L			03/09/15 21:16	1

Lab Sample ID: LCS 490-232396/4
Matrix: Water
Analysis Batch: 232396

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	98.8		mg/L		99	90 - 110
Sulfate	100	93.0		mg/L		93	90 - 110

Lab Sample ID: LCSD 490-232396/5
Matrix: Water
Analysis Batch: 232396

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	100	98.9		mg/L		99	90 - 110	0	20
Sulfate	100	93.2		mg/L		93	90 - 110	0	20

Lab Sample ID: 580-47459-E-5 MS
Matrix: Water
Analysis Batch: 232396

Client Sample ID: 580-47459-E-5 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.4		100	118		mg/L		109	80 - 120
Sulfate	7.5		100	109		mg/L		102	80 - 120

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-183216/21-A
Matrix: Water
Analysis Batch: 183341

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00027	mg/L		02/25/15 15:58	02/26/15 14:05	1
Antimony	ND		0.00040	0.000080	mg/L		02/25/15 15:58	02/26/15 14:05	1
Beryllium	ND		0.00040	0.00010	mg/L		02/25/15 15:58	02/26/15 14:05	1
Cadmium	ND		0.00040	0.000028	mg/L		02/25/15 15:58	02/26/15 14:05	1
Chromium	ND		0.00040	0.00014	mg/L		02/25/15 15:58	02/26/15 14:05	1

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: MB 580-183216/21-A

Matrix: Water

Analysis Batch: 183341

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 183216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0020	0.00060	mg/L		02/25/15 15:58	02/26/15 14:05	1
Lead	ND		0.00040	0.000034	mg/L		02/25/15 15:58	02/26/15 14:05	1
Nickel	ND		0.0030	0.00040	mg/L		02/25/15 15:58	02/26/15 14:05	1
Selenium	ND		0.0010	0.00030	mg/L		02/25/15 15:58	02/26/15 14:05	1
Silver	ND		0.00040	0.000030	mg/L		02/25/15 15:58	02/26/15 14:05	1
Thallium	ND		0.0010	0.00014	mg/L		02/25/15 15:58	02/26/15 14:05	1
Zinc	ND		0.0070	0.0019	mg/L		02/25/15 15:58	02/26/15 14:05	1

Lab Sample ID: LCS 580-183216/22-A

Matrix: Water

Analysis Batch: 183341

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 183216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.106		mg/L		106	85 - 115
Antimony	0.100	0.109		mg/L		109	85 - 115
Beryllium	0.100	0.0986		mg/L		99	85 - 115
Cadmium	0.100	0.107		mg/L		107	85 - 115
Chromium	0.100	0.103		mg/L		103	85 - 115
Copper	0.100	0.102		mg/L		102	85 - 115
Lead	0.100	0.105		mg/L		105	85 - 115
Nickel	0.100	0.102		mg/L		102	85 - 115
Selenium	0.100	0.108		mg/L		108	85 - 115
Silver	0.100	0.105		mg/L		105	85 - 115
Thallium	0.100	0.106		mg/L		106	85 - 115
Zinc	0.100	0.102		mg/L		102	85 - 115

Lab Sample ID: LCSD 580-183216/23-A

Matrix: Water

Analysis Batch: 183341

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 183216

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.100	0.104		mg/L		104	85 - 115	2	20
Antimony	0.100	0.104		mg/L		104	85 - 115	4	20
Beryllium	0.100	0.0976		mg/L		98	85 - 115	1	20
Cadmium	0.100	0.104		mg/L		104	85 - 115	3	20
Chromium	0.100	0.0987		mg/L		99	85 - 115	5	20
Copper	0.100	0.102		mg/L		102	85 - 115	0	20
Lead	0.100	0.104		mg/L		104	85 - 115	2	20
Nickel	0.100	0.103		mg/L		103	85 - 115	1	20
Selenium	0.100	0.105		mg/L		105	85 - 115	2	20
Silver	0.100	0.102		mg/L		102	85 - 115	3	20
Thallium	0.100	0.104		mg/L		104	85 - 115	2	20
Zinc	0.100	0.102		mg/L		102	85 - 115	0	20

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: 580-47459-5 MS

Matrix: Water

Analysis Batch: 183341

Client Sample ID: ST-0F-01-20150210-W

Prep Type: Total/NA

Prep Batch: 183216

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS Qualifier	Unit	D	%Rec	%Rec. Limits
	Result			Result					
Arsenic	0.014		0.100	0.113		mg/L		99	70 - 130
Antimony	0.0037		0.100	0.0924		mg/L		89	70 - 130
Beryllium	0.00034	J	0.100	0.0930		mg/L		93	70 - 130
Cadmium	0.00075		0.100	0.101		mg/L		100	70 - 130
Chromium	0.041		0.100	0.138		mg/L		96	70 - 130
Copper	0.11		0.100	0.183		mg/L		74	70 - 130
Lead	0.084		0.100	0.187		mg/L		103	70 - 130
Nickel	0.033		0.100	0.123		mg/L		90	70 - 130
Selenium	0.00048	J	0.100	0.100		mg/L		100	70 - 130
Silver	0.00016	J	0.100	0.0989		mg/L		99	70 - 130
Thallium	ND		0.100	0.104		mg/L		104	70 - 130
Zinc	0.40		0.100	0.474	4	mg/L		72	70 - 130

Lab Sample ID: 580-47459-5 MSD

Matrix: Water

Analysis Batch: 183341

Client Sample ID: ST-0F-01-20150210-W

Prep Type: Total/NA

Prep Batch: 183216

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
	Result			Result						RPD	Limit
Arsenic	0.014		0.100	0.113		mg/L		99	70 - 130	0	20
Antimony	0.0037		0.100	0.0933		mg/L		90	70 - 130	1	20
Beryllium	0.00034	J	0.100	0.0927		mg/L		92	70 - 130	0	20
Cadmium	0.00075		0.100	0.101		mg/L		100	70 - 130	0	20
Chromium	0.041		0.100	0.136		mg/L		94	70 - 130	2	20
Copper	0.11		0.100	0.186		mg/L		77	70 - 130	2	20
Lead	0.084		0.100	0.189		mg/L		105	70 - 130	1	20
Nickel	0.033		0.100	0.124		mg/L		91	70 - 130	1	20
Selenium	0.00048	J	0.100	0.0994		mg/L		99	70 - 130	1	20
Silver	0.00016	J	0.100	0.0994		mg/L		99	70 - 130	1	20
Thallium	ND		0.100	0.104		mg/L		104	70 - 130	1	20
Zinc	0.40		0.100	0.486	4	mg/L		84	70 - 130	3	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 580-182351/18-A

Matrix: Water

Analysis Batch: 182484

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 182351

Analyte	MB	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result								
Mercury	ND		0.00020	0.000041	mg/L		02/12/15 11:01	02/12/15 13:11	1

Lab Sample ID: LCS 580-182351/19-A

Matrix: Water

Analysis Batch: 182484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 182351

Analyte	Spike Added	LCS	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
		Result					
Mercury	0.00200	0.00193		mg/L		97	85 - 115

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 580-182351/20-A
Matrix: Water
Analysis Batch: 182484

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 182351

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00200	0.00196		mg/L		98	85 - 115	2	20

Lab Sample ID: 580-47459-3 MS
Matrix: Water
Analysis Batch: 182484

Client Sample ID: ST-TS-01-20150210-W
Prep Type: Total/NA
Prep Batch: 182351

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00012	J	0.00200	0.00210		mg/L		99	70 - 130		

Lab Sample ID: 580-47459-3 MSD
Matrix: Water
Analysis Batch: 182484

Client Sample ID: ST-TS-01-20150210-W
Prep Type: Total/NA
Prep Batch: 182351

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00012	J	0.00200	0.00207		mg/L		97	70 - 130	2	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 580-182357/14-A
Matrix: Solid
Analysis Batch: 182430

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182357

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.50	0.18	mg/Kg		02/12/15 11:35	02/12/15 14:14	10
Lead	ND		0.50	0.048	mg/Kg		02/12/15 11:35	02/12/15 14:14	10
Antimony	ND		0.20	0.042	mg/Kg		02/12/15 11:35	02/12/15 14:14	10
Beryllium	ND		0.20	0.035	mg/Kg		02/12/15 11:35	02/12/15 14:14	10
Cadmium	ND		0.20	0.019	mg/Kg		02/12/15 11:35	02/12/15 14:14	10
Chromium	ND		0.50	0.063	mg/Kg		02/12/15 11:35	02/12/15 14:14	10
Copper	ND		0.40	0.098	mg/Kg		02/12/15 11:35	02/12/15 14:14	10
Nickel	ND		0.50	0.081	mg/Kg		02/12/15 11:35	02/12/15 14:14	10
Selenium	ND		1.0	0.20	mg/Kg		02/12/15 11:35	02/12/15 14:14	10
Silver	ND		0.20	0.012	mg/Kg		02/12/15 11:35	02/12/15 14:14	10
Thallium	ND		0.40	0.13	mg/Kg		02/12/15 11:35	02/12/15 14:14	10
Zinc	ND		5.0	1.1	mg/Kg		02/12/15 11:35	02/12/15 14:14	10

Lab Sample ID: LCS 580-182357/15-A
Matrix: Solid
Analysis Batch: 182430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	200	198		mg/Kg		99	80 - 120		
Lead	50.0	49.4		mg/Kg		99	80 - 120		
Antimony	150	146		mg/Kg		97	80 - 120		
Beryllium	5.00	4.66		mg/Kg		93	80 - 120		
Cadmium	5.00	4.88		mg/Kg		98	80 - 120		
Chromium	20.0	20.2		mg/Kg		101	80 - 120		
Copper	25.0	25.2		mg/Kg		101	80 - 120		
Nickel	50.0	51.1		mg/Kg		102	80 - 120		

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCS 580-182357/15-A
Matrix: Solid
Analysis Batch: 182430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	200	201		mg/Kg		101	80 - 120
Silver	30.0	32.7		mg/Kg		109	80 - 120
Thallium	200	195		mg/Kg		97	80 - 120
Zinc	200	200		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 580-182357/16-A
Matrix: Solid
Analysis Batch: 182430

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 182357

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	200	200		mg/Kg		100	80 - 120	1	20
Lead	50.0	50.1		mg/Kg		100	80 - 120	1	20
Antimony	150	148		mg/Kg		99	80 - 120	2	20
Beryllium	5.00	4.89		mg/Kg		98	80 - 120	5	20
Cadmium	5.00	5.28		mg/Kg		106	80 - 120	8	20
Chromium	20.0	20.5		mg/Kg		102	80 - 120	1	20
Copper	25.0	25.1		mg/Kg		101	80 - 120	0	20
Nickel	50.0	51.4		mg/Kg		103	80 - 120	1	20
Selenium	200	202		mg/Kg		101	80 - 120	0	20
Silver	30.0	33.4		mg/Kg		111	80 - 120	2	20
Thallium	200	194		mg/Kg		97	80 - 120	0	20
Zinc	200	201		mg/Kg		101	80 - 120	1	20

Lab Sample ID: 580-47459-1 MS
Matrix: Solid
Analysis Batch: 182430

Client Sample ID: ST-CB-08-20150210-S
Prep Type: Total/NA
Prep Batch: 182357

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	11		370	393		mg/Kg	✱	103	80 - 120
Lead	78		92.6	179		mg/Kg	✱	108	80 - 120
Antimony	4.6		278	283		mg/Kg	✱	100	80 - 120
Beryllium	0.32		9.26	10.0		mg/Kg	✱	105	80 - 120
Cadmium	0.43		9.26	10.3		mg/Kg	✱	106	80 - 120
Chromium	42		37.0	88.4	F1	mg/Kg	✱	126	80 - 120
Copper	100		46.3	156		mg/Kg	✱	115	80 - 120
Nickel	35		92.6	136		mg/Kg	✱	109	80 - 120
Selenium	1.1	J	370	386		mg/Kg	✱	104	80 - 120
Silver	0.15	J	55.5	62.4		mg/Kg	✱	112	80 - 120
Thallium	ND		370	380		mg/Kg	✱	103	80 - 120
Zinc	430		370	856		mg/Kg	✱	115	80 - 120

Lab Sample ID: 580-47459-1 MSD
Matrix: Solid
Analysis Batch: 182430

Client Sample ID: ST-CB-08-20150210-S
Prep Type: Total/NA
Prep Batch: 182357

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	11		365	379		mg/Kg	✱	101	80 - 120	4	20
Lead	78		91.3	174		mg/Kg	✱	105	80 - 120	3	20
Antimony	4.6		274	276		mg/Kg	✱	99	80 - 120	3	20

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: 580-47459-1 MSD
Matrix: Solid
Analysis Batch: 182430

Client Sample ID: ST-CB-08-20150210-S
Prep Type: Total/NA
Prep Batch: 182357

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Beryllium	0.32		9.13	9.98		mg/Kg	☼	106	80 - 120	0	20
Cadmium	0.43		9.13	9.79		mg/Kg	☼	103	80 - 120	5	20
Chromium	42		36.5	86.7	F1	mg/Kg	☼	123	80 - 120	2	20
Copper	100		45.6	153		mg/Kg	☼	110	80 - 120	2	20
Nickel	35		91.3	133		mg/Kg	☼	107	80 - 120	2	20
Selenium	1.1	J	365	371		mg/Kg	☼	101	80 - 120	4	20
Silver	0.15	J	54.8	61.3		mg/Kg	☼	112	80 - 120	2	20
Thallium	ND		365	359		mg/Kg	☼	98	80 - 120	6	20
Zinc	430		365	840		mg/Kg	☼	112	80 - 120	2	20

Lab Sample ID: 580-47459-1 DU
Matrix: Solid
Analysis Batch: 182430

Client Sample ID: ST-CB-08-20150210-S
Prep Type: Total/NA
Prep Batch: 182357

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Arsenic	11		11.3		mg/Kg	☼	2	20
Lead	78		81.0		mg/Kg	☼	4	20
Antimony	4.6		4.98		mg/Kg	☼	8	20
Beryllium	0.32		0.348		mg/Kg	☼	9	20
Cadmium	0.43		0.494		mg/Kg	☼	14	20
Chromium	42		41.5		mg/Kg	☼	0.6	20
Copper	100		105		mg/Kg	☼	2	20
Nickel	35		35.0		mg/Kg	☼	1	20
Selenium	1.1	J	1.17	J	mg/Kg	☼	4	20
Silver	0.15	J	0.143	J	mg/Kg	☼	4	20
Thallium	ND		ND		mg/Kg	☼	NC	20
Zinc	430		448		mg/Kg	☼	4	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-182407/15-A
Matrix: Solid
Analysis Batch: 182458

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182407

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.020	0.0060	mg/Kg		02/12/15 16:58	02/13/15 08:58	1

Lab Sample ID: LCS 580-182407/16-A
Matrix: Solid
Analysis Batch: 182458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182407

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				Limits
Mercury	0.167	0.149		mg/Kg		89	80 - 120

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: LCSD 580-182407/17-A
Matrix: Solid
Analysis Batch: 182458

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 182407

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.167	0.149		mg/Kg		89	80 - 120	0	20

Lab Sample ID: LCSSRM 580-182407/18-A ^10
Matrix: Solid
Analysis Batch: 182458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182407

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	12.9	11.5		mg/Kg		88.8	51.2 - 148. 1		

Method: 120.1 - Conductivity, Specific Conductance

Lab Sample ID: MB 580-182660/1
Matrix: Water
Analysis Batch: 182660

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		10	10	umhos/cm			02/17/15 17:15	1

Lab Sample ID: LCS 580-182660/2
Matrix: Water
Analysis Batch: 182660

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Specific Conductance	500	521		umhos/cm		104	90 - 110		

Lab Sample ID: 580-47459-3 DU
Matrix: Water
Analysis Batch: 182660

Client Sample ID: ST-TS-01-20150210-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	Prepared	Analyzed	RPD Limit
Specific Conductance	1600		1560		umhos/cm				0.5 20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-182521/1
Matrix: Water
Analysis Batch: 182521

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			02/11/15 14:44	1

Lab Sample ID: LCS 580-182521/2
Matrix: Water
Analysis Batch: 182521

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	1.80	1.82		mg/L		101	90 - 110		

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-182521/3
Matrix: Water
Analysis Batch: 182521

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	1.81		mg/L		101	90 - 110	1	15

Lab Sample ID: 580-47459-3 MS
Matrix: Water
Analysis Batch: 182521

Client Sample ID: ST-TS-01-20150210-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	ND		1.80	1.94		mg/L		108	90 - 110

Lab Sample ID: 580-47459-3 DU
Matrix: Water
Analysis Batch: 182521

Client Sample ID: ST-TS-01-20150210-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	ND		ND		mg/L		NC	10

Method: 9060_PSEP - TOC (Puget Sound)

Lab Sample ID: MB 580-182737/3
Matrix: Solid
Analysis Batch: 182737

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	44	mg/Kg			02/18/15 15:01	1

Lab Sample ID: LCS 580-182737/4
Matrix: Solid
Analysis Batch: 182737

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	3220		mg/Kg		113	27.8 - 170

Lab Sample ID: LCSD 580-182737/5
Matrix: Solid
Analysis Batch: 182737

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	3240		mg/Kg		114	27.8 - 170	1	35

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-182507/2
Matrix: Water
Analysis Batch: 182507

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	102		mg/L		102	85 - 115

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

Method: SM 2520B - Salinity

Lab Sample ID: MB 580-183170/1
Matrix: Water
Analysis Batch: 183170

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Salinity	ND		100	100	mg/L			02/25/15 10:24	1

Lab Sample ID: LCS 580-183170/2
Matrix: Water
Analysis Batch: 183170

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Salinity	10000	11400		mg/L		114	80 - 120

Lab Sample ID: 580-47459-5 DU
Matrix: Water
Analysis Batch: 183170

Client Sample ID: ST-0F-01-20150210-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Salinity	100		100		mg/L		0	20

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

Lab Sample ID: MB 580-182559/1
Matrix: Water
Analysis Batch: 182559

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		1.2	1.2	mg/L			02/16/15 10:58	1

Lab Sample ID: LCS 580-182559/2
Matrix: Water
Analysis Batch: 182559

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	26.8		mg/L		89	70.6 - 120

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

Lab Sample ID: MB 580-183152/1
Matrix: Water
Analysis Batch: 183152

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			02/24/15 11:19	1

Lab Sample ID: LCS 580-183152/2
Matrix: Water
Analysis Batch: 183152

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	15.8		mg/L		105	85 - 115

TestAmerica Seattle

QC Sample Results

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

TestAmerica Job ID: 580-47459-1

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

Lab Sample ID: 580-47459-3 MS

Matrix: Water

Analysis Batch: 183152

Client Sample ID: ST-TS-01-20150210-W

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	4.0		10.0	14.8		mg/L		108	85 - 115

Lab Sample ID: 580-47459-3 MSD

Matrix: Water

Analysis Batch: 183152

Client Sample ID: ST-TS-01-20150210-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	4.0		10.0	15.1		mg/L		111	85 - 115	2	20

Lab Sample ID: 580-47459-3 DU

Matrix: Water

Analysis Batch: 183152

Client Sample ID: ST-TS-01-20150210-W

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	4.0		4.15		mg/L		2	20

Lab Chronicle

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-08-20150210-S

Lab Sample ID: 580-47459-1

Date Collected: 02/10/15 15:38

Matrix: Solid

Date Received: 02/11/15 09:00

Percent Solids: 49.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			182696	02/11/15 09:40	SOC	TAL SEA
Total/NA	Analysis	8260B		1	182692	02/18/15 13:49	SOC	TAL SEA
Total/NA	Prep	5035	RA		182809	02/11/15 09:40	SOC	TAL SEA
Total/NA	Analysis	8260B	RA	1	182769	02/19/15 13:48	SOC	TAL SEA
Total/NA	Prep	3550B			182433	02/13/15 08:23	RMB	TAL SEA
Total/NA	Analysis	8270D		10	182776	02/19/15 12:14	ERZ	TAL SEA
Total/NA	Prep	3550B	RE		183304	02/26/15 14:48	EKK	TAL SEA
Total/NA	Analysis	8270D	RE	10	183363	02/27/15 12:20	AHP	TAL SEA
Total/NA	Prep	5035			182397	02/12/15 15:11	IWH	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	182404	02/12/15 20:44	TL1	TAL SEA
Total/NA	Prep	3550B			182829	02/20/15 08:00	RBL	TAL SEA
Total/NA	Analysis	8082		1	182926	02/20/15 19:31	ALC	TAL SEA
Total/NA	Prep	3546			182463	02/13/15 10:52	JJP	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	182566	02/17/15 11:24	JJP	TAL SEA
Total/NA	Prep	3050B			182357	02/12/15 11:35	PAB	TAL SEA
Total/NA	Analysis	6020		10	182430	02/12/15 14:29	FCW	TAL SEA
Total/NA	Prep	7471A			182407	02/12/15 16:58	PAB	TAL SEA
Total/NA	Analysis	7471A		1	182458	02/13/15 09:34	FCW	TAL SEA
Total/NA	Analysis	2540B		1	182354	02/12/15 11:12	ERZ	TAL SEA
Total/NA	Analysis	9060_PSEP		1	182737	02/18/15 15:01	LKC	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	182558	02/16/15 14:54	LKC	TAL SEA

Client Sample ID: ST-CB-04A-20150210-S

Lab Sample ID: 580-47459-2

Date Collected: 02/10/15 11:51

Matrix: Solid

Date Received: 02/11/15 09:00

Percent Solids: 56.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			182696	02/11/15 09:40	SOC	TAL SEA
Total/NA	Analysis	8260B		1	182692	02/18/15 14:15	SOC	TAL SEA
Total/NA	Prep	5035	RA		182809	02/11/15 09:40	SOC	TAL SEA
Total/NA	Analysis	8260B	RA	1	182769	02/19/15 14:13	SOC	TAL SEA
Total/NA	Prep	3550B			182433	02/13/15 08:23	RMB	TAL SEA
Total/NA	Analysis	8270D		10	182776	02/19/15 13:33	ERZ	TAL SEA
Total/NA	Prep	3550B	RE		183304	02/26/15 14:48	EKK	TAL SEA
Total/NA	Analysis	8270D	RE	10	183363	02/27/15 12:46	AHP	TAL SEA
Total/NA	Prep	5035			182397	02/12/15 15:11	IWH	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	182404	02/12/15 21:15	TL1	TAL SEA
Total/NA	Prep	3550B			182829	02/20/15 08:00	RBL	TAL SEA
Total/NA	Analysis	8082		1	182926	02/20/15 19:47	ALC	TAL SEA
Total/NA	Prep	3546			182463	02/13/15 10:52	JJP	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	182566	02/17/15 12:12	JJP	TAL SEA
Total/NA	Prep	3050B			182357	02/12/15 11:35	PAB	TAL SEA
Total/NA	Analysis	6020		10	182430	02/12/15 14:56	FCW	TAL SEA

TestAmerica Seattle

Lab Chronicle

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-CB-04A-20150210-S

Lab Sample ID: 580-47459-2

Date Collected: 02/10/15 11:51

Matrix: Solid

Date Received: 02/11/15 09:00

Percent Solids: 56.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			182407	02/12/15 16:58	PAB	TAL SEA
Total/NA	Analysis	7471A		1	182458	02/13/15 09:36	FCW	TAL SEA
Total/NA	Analysis	2540B		1	182354	02/12/15 11:12	ERZ	TAL SEA
Total/NA	Analysis	9060_PSEP		1	182737	02/18/15 15:01	LKC	TAL SEA
Total/NA	Analysis	PSEP Plumb 1981		1	182558	02/16/15 14:54	LKC	TAL SEA

Client Sample ID: ST-TS-01-20150210-W

Lab Sample ID: 580-47459-3

Date Collected: 02/10/15 14:08

Matrix: Water

Date Received: 02/11/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			182612	02/17/15 11:49	ALC	TAL SEA
Total/NA	Analysis	8270D		5	182836	02/19/15 21:54	AHP	TAL SEA
Total/NA	Analysis	300.0		1	232396	03/09/15 23:56	JHS	TAL NSH
Total/NA	Prep	200.8			183216	02/25/15 15:58	PAB	TAL SEA
Total/NA	Analysis	200.8		1	183341	02/26/15 15:12	FCW	TAL SEA
Total/NA	Prep	245.1			182351	02/12/15 11:01	PAB	TAL SEA
Total/NA	Analysis	245.1		1	182484	02/12/15 13:56	FCW	TAL SEA
Total/NA	Analysis	120.1		1	182660	02/17/15 17:15	JLS	TAL SEA
Total/NA	Analysis	300.0		1	182521	02/11/15 18:08	RSB	TAL SEA
Total/NA	Analysis	SM 2320B		1	182507	02/13/15 12:30	JLS	TAL SEA
Total/NA	Analysis	SM 2540D		1	182559	02/17/15 10:58	LKC	TAL SEA
Total/NA	Analysis	SM 4500 H+ B		1	182338	02/11/15 18:12	JLS	TAL SEA
Dissolved	Analysis	SM 5310B		1	183152	02/24/15 11:19	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	183152	02/24/15 11:19	RSB	TAL SEA

Client Sample ID: ST-FD-02-20150210-W

Lab Sample ID: 580-47459-4

Date Collected: 02/10/15 14:08

Matrix: Water

Date Received: 02/11/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			182612	02/17/15 11:49	ALC	TAL SEA
Total/NA	Analysis	8270D		5	182836	02/19/15 22:44	AHP	TAL SEA
Total/NA	Analysis	300.0		1	232396	03/10/15 00:36	JHS	TAL NSH
Total/NA	Prep	200.8			183216	02/25/15 15:58	PAB	TAL SEA
Total/NA	Analysis	200.8		1	183341	02/26/15 15:08	FCW	TAL SEA
Total/NA	Prep	245.1			182351	02/12/15 11:01	PAB	TAL SEA
Total/NA	Analysis	245.1		1	182484	02/12/15 13:46	FCW	TAL SEA
Total/NA	Analysis	120.1		1	182660	02/17/15 17:15	JLS	TAL SEA
Total/NA	Analysis	300.0		1	182521	02/11/15 18:51	RSB	TAL SEA
Total/NA	Analysis	SM 2320B		1	182507	02/13/15 12:30	JLS	TAL SEA
Total/NA	Analysis	SM 2540D		1	182559	02/17/15 10:58	LKC	TAL SEA

TestAmerica Seattle

Lab Chronicle

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

TestAmerica Job ID: 580-47459-1

Client Sample ID: ST-FD-02-20150210-W

Lab Sample ID: 580-47459-4

Date Collected: 02/10/15 14:08

Matrix: Water

Date Received: 02/11/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 H+ B		1	182338	02/11/15 18:16	JLS	TAL SEA
Dissolved	Analysis	SM 5310B		1	183152	02/24/15 11:19	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	183152	02/24/15 11:19	RSB	TAL SEA

Client Sample ID: ST-0F-01-20150210-W

Lab Sample ID: 580-47459-5

Date Collected: 02/10/15 13:34

Matrix: Water

Date Received: 02/11/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			182612	02/17/15 11:49	ALC	TAL SEA
Total/NA	Analysis	8270D		5	182836	02/19/15 23:34	AHP	TAL SEA
Total/NA	Analysis	300.0		1	232396	03/10/15 08:56	JHS	TAL NSH
Total/NA	Prep	200.8			183216	02/25/15 15:58	PAB	TAL SEA
Total/NA	Analysis	200.8		1	183341	02/26/15 14:51	FCW	TAL SEA
Total/NA	Prep	245.1			182351	02/12/15 11:01	PAB	TAL SEA
Total/NA	Analysis	245.1		1	182484	02/12/15 13:49	FCW	TAL SEA
Total/NA	Analysis	120.1		1	182660	02/17/15 17:15	JLS	TAL SEA
Total/NA	Analysis	300.0		1	182521	02/11/15 19:05	RSB	TAL SEA
Total/NA	Analysis	SM 2320B		1	182507	02/13/15 12:30	JLS	TAL SEA
Total/NA	Analysis	SM 2520B		1	183170	02/25/15 10:24	LKC	TAL SEA
Total/NA	Analysis	SM 2540D		1	182559	02/17/15 10:58	LKC	TAL SEA
Total/NA	Analysis	SM 4500 H+ B		1	182338	02/11/15 18:20	JLS	TAL SEA
Dissolved	Analysis	SM 5310B		1	183152	02/24/15 11:19	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	183152	02/24/15 11:19	RSB	TAL SEA

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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: 580-47459-1

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	03-02-16
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	02-17-16

Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-15
A2LA	ISO/IEC 17025		0453.07	12-31-15
Alaska (UST)	State Program	10	UST-087	10-31-15
Arizona	State Program	9	AZ0473	05-05-15
Arkansas DEQ	State Program	6	88-0737	04-25-15
California	State Program	9	2938	10-31-16
Connecticut	State Program	1	PH-0220	12-31-15
Florida	NELAP	4	E87358	06-30-15
Illinois	NELAP	5	200010	12-09-15
Iowa	State Program	7	131	04-01-16
Kansas	NELAP	7	E-10229	03-31-15 *
Kentucky (UST)	State Program	4	19	06-30-15
Kentucky (WW)	State Program	4	90038	12-31-15
Louisiana	NELAP	6	30613	06-30-15
Maryland	State Program	3	316	03-31-16
Massachusetts	State Program	1	M-TN032	06-30-15
Minnesota	NELAP	5	047-999-345	12-31-15
Mississippi	State Program	4	N/A	06-30-15
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-15
New Hampshire	NELAP	1	2963	10-09-15
New Jersey	NELAP	2	TN965	06-30-15
New York	NELAP	2	11342	03-31-15
North Carolina (WW/SW)	State Program	4	387	12-31-15
North Dakota	State Program	8	R-146	06-30-15
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-15
Oregon	NELAP	10	TN200001	04-27-16
Pennsylvania	NELAP	3	68-00585	06-30-15
Rhode Island	State Program	1	LAO00268	12-30-15
South Carolina	State Program	4	84009 (001)	02-28-15 *
South Carolina (DW)	State Program	4	84009 (002)	02-23-17
Tennessee	State Program	4	2008	02-23-17
Texas	NELAP	6	T104704077	08-31-15
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-15

* Certification renewal pending - certification considered valid.

Certification Summary

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

TestAmerica Job ID: 580-47459-1

Laboratory: TestAmerica Nashville (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Virginia	NELAP	3	460152	06-14-15
Washington	State Program	10	C789	07-19-15
West Virginia DEP	State Program	3	219	02-28-16
Wisconsin	State Program	5	998020430	08-31-15
Wyoming (UST)	A2LA	8	453.07	12-31-15



Sample Summary

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

TestAmerica Job ID: 580-47459-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-47459-1	ST-CB-08-20150210-S	Solid	02/10/15 15:38	02/11/15 09:00
580-47459-2	ST-CB-04A-20150210-S	Solid	02/10/15 11:51	02/11/15 09:00
580-47459-3	ST-TS-01-20150210-W	Water	02/10/15 14:08	02/11/15 09:00
580-47459-4	ST-FD-02-20150210-W	Water	02/10/15 14:08	02/11/15 09:00
580-47459-5	ST-0F-01-20150210-W	Water	02/10/15 13:34	02/11/15 09:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Tacoma, WA 98424
phone 253.922.2310 fax

Regulatory Program: DW NPDES RCRA Other:

47450

TestAmerica Laboratories, Inc

Client Contact	Project Manager: Christine Nancarrow	Site Contact: Melissa Ivancevich	Date: 2/11/15	COC No: -
18912 N Creek Pkwy, Ste 101	Tel/Fax: 206.300.2144	Lab Contact: Kris Allen	Carrier: Courier	1 of 2 COCs
Bothell, WA 98011	Analysis Turnaround Time			Sampler: CV/CN/TV
425.398.2101 Phone	<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS			For Lab Use Only:
425.485.5566 FAX	TAT if different from Below 3 Weeks			Walk-in Client:
Project Name: NPDES Sampling Support	2 weeks			Lab Sampling:
Site: Lower Duwamish Waterway	1 week			Job / SDG No.:
P O # P010163427	2 days			
	1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (G-Comp G-grab)	Matrix	# of Cont.	Filtered Sample (Y / N)										Sample Specific Notes:	
						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)		
ST-CB-08-2015 0210-5	2/10/15	1538	G	Sed	6	X	X	X	X	X	X	X	X	X	X		-1
ST-CB-04A-2015 0210-5	2/10/15	1151	G	Sed	6	X	X	X	X	X	X	X	X	X	X		-2

Cooler/DB Dg/IR cor 4.2 unc 4.7°C
Cooler Dsc by Kline/ML@Lab 0935
Wet/Packs Packing Bubble
w/c S

Cooler/DB Dg/IR cor 1.6°C unc 2.1°C
Cooler Dsc by Green/ML@Lab 0935
Wet/Packs Packing Bubble
w/c S



580-47459 Chain of Custody

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

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temp. (°C): Obs'd: _____ Cor'd: _____ Therm ID No.:

Relinquished by: *[Signature]* Company: Leidos Date/Time: 2/11/15 0900 Received by: *[Signature]* Company: TASEH Date/Time: 2/11/15 0900

Relinquished by: _____ Company: _____ Date/Time: _____ Received in Laboratory by: _____ Company: _____ Date/Time: _____

Tacoma, WA 98424
phone 253.922.2310 fax

Regulatory Program: DW NPDES RCRA Other:

49459

TestAmerica Laboratories, Inc

Client Contact
Leidos
18912 N Creek Pkwy, Ste. 101
Bothell, WA 98011
425.398.2101 Phone
425.485.5566 FAX
Project Name: NPDES Sampling Support
Site: Lower Duwamish Waterway
P O # P010163427

Project Manager: Christine Nancarrow
Tel/Fax: 206.300.2144

Date: 8/11/15

COC No: 2 of 2 COCs

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below 3 Weeks
2 weeks
- 1 week
2 days
1 day

Site Contact: Melissa Ivancevich
Lab Contact: Kris Allen
Carrier: Courier

Sample: ~~SW~~ CWCNJV
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (G-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)										Sample Specific Notes:	
						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)		Salinity
ST-TS-01-20150810-W	21/015	1408	G	W	9	N	X	X	X	X	X	X	X	X	X	X	-3
ST-FD-02-20150210-W	21/015	1408	G	W	9	X	X	X	X	X	X	X	X	X	X	X	-4
ST-OF-01-20150210-W	21/015	1334	G	W	8	X	X	X	X	X	X	X	X	X	X	X	See Comment ① -5

Preservation Used: F-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.	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements & Comments: **① If possible, please pull additional Sample volume from 1 L poly bottle to run analysis for salinity.**
This sample set is missing 1-250 ml poly bottle. Please contact Christine Nancarrow w/ questions?

Custody Seals Intact: Yes No
Cooler Temp. (°C): Obs'd: _____ Cor'd: _____ Therm ID No.: _____
Return to Client: Disposal by Lab: Archive for _____ Months

Relinquished by: *[Signature]* Company: Leidos Date/Time: 21/11/15 0900
Received by: *[Signature]* Company: TASEH Date/Time: 2/11/15 0900

Relinquished by: _____ Company: _____ Date/Time: _____
Received in Laboratory by: _____ Company: _____ Date/Time: _____

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 580-47459-1

Login Number: 47459

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?	True	
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	



Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 580-47459-1

Login Number: 47459

List Number: 2

Creator: Ford, Easton

List Source: TestAmerica Nashville

List Creation: 02/24/15 02:41 PM

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?	True	
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	



March 03, 2015

Vista Project I.D.: 1500166

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 February 12, 2015. This sample set was analyzed on a standard turn-around time, under your Project Name '1400647'. The work was authorized under your Purchase Order No. PO10163569.

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 Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 1500166

Case Narrative

Sample Condition on Receipt:

Three aqueous samples and two sediment samples 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 above the sample quantitation limits 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.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1500166-01	ST-TS-01-20150210-W	10-Feb-15 14:08	12-Feb-15 09:12	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L
1500166-02	ST-FD-02-20150210-W	10-Feb-15 14:08	12-Feb-15 09:12	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L
1500166-03	ST-OF-01-20150210-W	10-Feb-15 13:34	12-Feb-15 09:12	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L
1500166-04	ST-CB-08-20150210-S	10-Feb-15 15:38	12-Feb-15 09:12	Amber Glass, 250mL
1500166-05	ST-CB-04A-20150210-S	10-Feb-15 11:51	12-Feb-15 09:12	Amber Glass, 250mL

ANALYTICAL RESULTS

Sample ID: Method Blank							EPA Method 1613B				
Matrix: Aqueous Sample Size: 1.00 L			QC Batch: B5B0083 Date Extracted: 20-Feb-2015 8:16			Lab Sample: B5B0083-BLK1 Date Analyzed: 26-Feb-15 14:32 Column: ZB-5MS Analyst: MAS					
Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	5.00	0.974		0.943		IS 13C-2,3,7,8-TCDD	69.0	25 - 164		
1,2,3,7,8-PeCDD	ND	25.0	1.05		4.51		13C-1,2,3,7,8-PeCDD	70.0	25 - 181		
1,2,3,4,7,8-HxCDD	ND	25.0	1.61		2.21		13C-1,2,3,4,7,8-HxCDD	67.7	32 - 141		
1,2,3,6,7,8-HxCDD	ND	25.0	1.67		1.93		13C-1,2,3,6,7,8-HxCDD	62.9	28 - 130		
1,2,3,7,8,9-HxCDD	ND	25.0	1.81		2.02		13C-1,2,3,7,8,9-HxCDD	63.6	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	25.0	2.76		2.98		13C-1,2,3,4,6,7,8-HpCDD	68.6	23 - 140		
OCDD	ND	50.0	4.52		3.57		13C-OCDD	51.6	17 - 157		
2,3,7,8-TCDF	ND	5.00	0.639		0.984		13C-2,3,7,8-TCDF	70.9	24 - 169		
1,2,3,7,8-PeCDF	ND	25.0	0.755		2.50		13C-1,2,3,7,8-PeCDF	75.0	24 - 185		
2,3,4,7,8-PeCDF	ND	25.0	0.728		1.73		13C-2,3,4,7,8-PeCDF	79.9	21 - 178		
1,2,3,4,7,8-HxCDF	ND	25.0	1.46		1.36		13C-1,2,3,4,7,8-HxCDF	67.3	26 - 152		
1,2,3,6,7,8-HxCDF	ND	25.0	1.17		1.56		13C-1,2,3,6,7,8-HxCDF	85.9	26 - 123		
2,3,4,6,7,8-HxCDF	ND	25.0	1.01		2.05		13C-2,3,4,6,7,8-HxCDF	65.2	28 - 136		
1,2,3,7,8,9-HxCDF	ND	25.0	1.47		1.34		13C-1,2,3,7,8,9-HxCDF	65.5	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	25.0	1.19		1.46		13C-1,2,3,4,6,7,8-HpCDF	61.2	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	25.0	1.13		1.75		13C-1,2,3,4,7,8,9-HpCDF	66.8	26 - 138		
OCDF	ND	50.0	1.43		2.98		13C-OCDF	53.5	17 - 157		
							CRS 37Cl-2,3,7,8-TCDD	97.4	35 - 197		
							Toxic Equivalent Quotient (TEQ) Data				
							TEQMinWHO2005Dioxin		0.00		
TOTALS											
Total TCDD	ND		0.974								
Total PeCDD	ND		1.70								
Total HxCDD	ND		2.35								
Total HpCDD	ND		2.76								
Total TCDF	ND		0.888								
Total PeCDF	ND		1.45								
Total HxCDF	ND		1.60								
Total HpCDF	ND		1.42								

DL - Sample specific estimated detection limit

MDL - Method detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

RL - Reporting 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 Sample Size: 1.00 L		QC Batch: B5B0083 Date Extracted: 20-Feb-2015 8:16		Lab Sample: B5B0083-BS1 Date Analyzed: 26-Feb-15 12:06 Column: ZB-5MS Analyst: MAS			
Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	192	200	96.2	67 - 158	IS 13C-2,3,7,8-TCDD	72.3	20 - 175
1,2,3,7,8-PeCDD	1000	1000	100	70 - 142	13C-1,2,3,7,8-PeCDD	67.9	21 - 227
1,2,3,4,7,8-HxCDD	1030	1000	103	70 - 164	13C-1,2,3,4,7,8-HxCDD	63.9	21 - 193
1,2,3,6,7,8-HxCDD	1070	1000	107	76 - 134	13C-1,2,3,6,7,8-HxCDD	60.2	25 - 163
1,2,3,7,8,9-HxCDD	1070	1000	107	64 - 162	13C-1,2,3,7,8,9-HxCDD	61.1	21 - 193
1,2,3,4,6,7,8-HpCDD	1040	1000	104	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	63.2	26 - 166
OCDD	2100	2000	105	78 - 144	13C-OCDD	43.8	13 - 199
2,3,7,8-TCDF	202	200	101	75 - 158	13C-2,3,7,8-TCDF	70.0	22 - 152
1,2,3,7,8-PeCDF	1000	1000	100	80 - 134	13C-1,2,3,7,8-PeCDF	69.9	21 - 192
2,3,4,7,8-PeCDF	1040	1000	104	68 - 160	13C-2,3,4,7,8-PeCDF	77.1	13 - 328
1,2,3,4,7,8-HxCDF	1100	1000	110	72 - 134	13C-1,2,3,4,7,8-HxCDF	68.1	19 - 202
1,2,3,6,7,8-HxCDF	1040	1000	104	84 - 130	13C-1,2,3,6,7,8-HxCDF	77.5	21 - 159
2,3,4,6,7,8-HxCDF	1060	1000	106	70 - 156	13C-2,3,4,6,7,8-HxCDF	64.6	22 - 176
1,2,3,7,8,9-HxCDF	1070	1000	107	78 - 130	13C-1,2,3,7,8,9-HxCDF	62.4	17 - 205
1,2,3,4,6,7,8-HpCDF	1040	1000	104	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	58.7	21 - 158
1,2,3,4,7,8,9-HpCDF	1060	1000	106	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	58.5	20 - 186
OCDF	2110	2000	105	63 - 170	13C-OCDF	46.8	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	111	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: ST-TS-01-20150210-W **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Leidos	Matrix: Aqueous	Lab Sample: 1500166-01 Date Received: 12-Feb-2015 9:12
Project: 1400647	Sample Size: 1.01 L	QC Batch: B5B0083 Date Extracted: 20-Feb-2015 8:16
Date Collected: 10-Feb-2015 14:08		Date Analyzed: 26-Feb-15 15:21 Column: ZB-5MS Analyst: MAS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	4.97	1.50		0.943		IS 13C-2,3,7,8-TCDD	67.2	25 - 164	
1,2,3,7,8-PeCDD	3.23	24.9			4.51	J	13C-1,2,3,7,8-PeCDD	68.9	25 - 181	
1,2,3,4,7,8-HxCDD	7.87	24.9			2.21	J	13C-1,2,3,4,7,8-HxCDD	55.5	32 - 141	
1,2,3,6,7,8-HxCDD	46.0	24.9			1.93		13C-1,2,3,6,7,8-HxCDD	51.5	28 - 130	
1,2,3,7,8,9-HxCDD	16.9	24.9			2.02	J	13C-1,2,3,7,8,9-HxCDD	53.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	1570	24.9			2.98		13C-1,2,3,4,6,7,8-HpCDD	56.4	23 - 140	
OCDD	17100	49.7			3.57		13C-OCDD	41.8	17 - 157	
2,3,7,8-TCDF	2.67	4.97			0.984	J	13C-2,3,7,8-TCDF	66.5	24 - 169	
1,2,3,7,8-PeCDF	ND	24.9		2.34	2.50		13C-1,2,3,7,8-PeCDF	66.4	24 - 185	
2,3,4,7,8-PeCDF	3.48	24.9			1.73	J	13C-2,3,4,7,8-PeCDF	74.9	21 - 178	
1,2,3,4,7,8-HxCDF	14.1	24.9			1.36	J	13C-1,2,3,4,7,8-HxCDF	56.2	26 - 152	
1,2,3,6,7,8-HxCDF	6.18	24.9			1.56	J	13C-1,2,3,6,7,8-HxCDF	66.6	26 - 123	
2,3,4,6,7,8-HxCDF	11.3	24.9			2.05	J	13C-2,3,4,6,7,8-HxCDF	56.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	24.9	3.07		1.34		13C-1,2,3,7,8,9-HxCDF	56.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	238	24.9			1.46		13C-1,2,3,4,6,7,8-HpCDF	52.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	22.5	24.9			1.75	J	13C-1,2,3,4,7,8,9-HpCDF	56.1	26 - 138	
OCDF	1400	49.7			2.98		13C-OCDF	44.2	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	103	35 - 197	

							Toxic Equivalent Quotient (TEQ) Data			
							TEQMinWHO2005Dioxin	38.6		

TOTALS										
Total TCDD	ND			3.17						
Total PeCDD	18.0			23.3						
Total HxCDD	529									
Total HpCDD	5660									
Total TCDF	35.0			41.3						
Total PeCDF	67.5			70.7						
Total HxCDF	275									
Total HpCDF	1080									

DL - Sample specific estimated detection limit MDL - Method detection limit LCL-UCL- Lower control limit - upper control limit
 EMPC - Estimated maximum possible concentration RL - Reporting limit Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: ST-FD-02-20150210-W **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Leidos	Matrix: Aqueous	Lab Sample: 1500166-02 Date Received: 12-Feb-2015 9:12
Project: 1400647	Sample Size: 1.01 L	QC Batch: B5B0083 Date Extracted: 20-Feb-2015 8:16
Date Collected: 10-Feb-2015 14:08		Date Analyzed: 26-Feb-15 16:10 Column: ZB-5MS Analyst: MAS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	4.94		0.750	0.943		IS 13C-2,3,7,8-TCDD	76.3	25 - 164	
1,2,3,7,8-PeCDD	2.91	24.7			4.51	J	13C-1,2,3,7,8-PeCDD	68.1	25 - 181	
1,2,3,4,7,8-HxCDD	10.4	24.7			2.21	J	13C-1,2,3,4,7,8-HxCDD	65.8	32 - 141	
1,2,3,6,7,8-HxCDD	35.9	24.7			1.93		13C-1,2,3,6,7,8-HxCDD	60.8	28 - 130	
1,2,3,7,8,9-HxCDD	17.7	24.7			2.02	J	13C-1,2,3,7,8,9-HxCDD	61.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	1320	24.7			2.98		13C-1,2,3,4,6,7,8-HpCDD	64.5	23 - 140	
OCDD	14800	49.4			3.57		13C-OCDD	46.5	17 - 157	
2,3,7,8-TCDF	2.46	4.94			0.984	J	13C-2,3,7,8-TCDF	72.8	24 - 169	
1,2,3,7,8-PeCDF	2.09	24.7			2.50	J	13C-1,2,3,7,8-PeCDF	70.8	24 - 185	
2,3,4,7,8-PeCDF	3.14	24.7			1.73	J	13C-2,3,4,7,8-PeCDF	74.2	21 - 178	
1,2,3,4,7,8-HxCDF	10.7	24.7			1.36	J	13C-1,2,3,4,7,8-HxCDF	64.3	26 - 152	
1,2,3,6,7,8-HxCDF	5.84	24.7			1.56	J	13C-1,2,3,6,7,8-HxCDF	73.1	26 - 123	
2,3,4,6,7,8-HxCDF	10.2	24.7			2.05	J	13C-2,3,4,6,7,8-HxCDF	63.2	28 - 136	
1,2,3,7,8,9-HxCDF	1.46	24.7			1.34	J	13C-1,2,3,7,8,9-HxCDF	65.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	201	24.7			1.46		13C-1,2,3,4,6,7,8-HpCDF	60.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	17.6	24.7			1.75	J	13C-1,2,3,4,7,8,9-HpCDF	61.8	26 - 138	
OCDF	1180	49.4			2.98		13C-OCDF	49.4	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	108	35 - 197	

Toxic Equivalent Quotient (TEQ) Data											
								TEQMinWHO2005Dioxin	33.6		

TOTALS										
Total TCDD	ND			2.35						
Total PeCDD	17.1			22.3						
Total HxCDD	434									
Total HpCDD	4790									
Total TCDF	33.5			39.6						
Total PeCDF	62.5			63.5						
Total HxCDF	242			244						
Total HpCDF	871									

DL - Sample specific estimated detection limit MDL - Method detection limit LCL-UCL- Lower control limit - upper control limit
 EMPC - Estimated maximum possible concentration RL - Reporting limit Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: ST-OF-01-20150210-W **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Leidos	Matrix: Aqueous	Lab Sample: 1500166-03 Date Received: 12-Feb-2015 9:12
Project: 1400647	Sample Size: 1.02 L	QC Batch: B5B0083 Date Extracted: 20-Feb-2015 8:16
Date Collected: 10-Feb-2015 13:34		Date Analyzed: 26-Feb-15 16:59 Column: ZB-5MS Analyst: MAS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	4.92	1.71		0.943		IS 13C-2,3,7,8-TCDD	68.8	25 - 164	
1,2,3,7,8-PeCDD	ND	24.6	2.50		4.51		13C-1,2,3,7,8-PeCDD	62.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	24.6		5.58	2.21		13C-1,2,3,4,7,8-HxCDD	63.4	32 - 141	
1,2,3,6,7,8-HxCDD	24.5	24.6			1.93	J	13C-1,2,3,6,7,8-HxCDD	56.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	24.6		11.3	2.02		13C-1,2,3,7,8,9-HxCDD	60.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	799	24.6			2.98		13C-1,2,3,4,6,7,8-HpCDD	63.8	23 - 140	
OCDD	9110	49.2			3.57		13C-OCDD	45.8	17 - 157	
2,3,7,8-TCDF	1.46	4.92			0.984	J	13C-2,3,7,8-TCDF	68.1	24 - 169	
1,2,3,7,8-PeCDF	ND	24.6		1.27	2.50		13C-1,2,3,7,8-PeCDF	65.5	24 - 185	
2,3,4,7,8-PeCDF	2.30	24.6			1.73	J	13C-2,3,4,7,8-PeCDF	68.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	24.6		5.67	1.36		13C-1,2,3,4,7,8-HxCDF	64.7	26 - 152	
1,2,3,6,7,8-HxCDF	4.04	24.6			1.56	J	13C-1,2,3,6,7,8-HxCDF	73.0	26 - 123	
2,3,4,6,7,8-HxCDF	6.55	24.6			2.05	J	13C-2,3,4,6,7,8-HxCDF	61.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	24.6	1.24		1.34		13C-1,2,3,7,8,9-HxCDF	61.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	121	24.6			1.46		13C-1,2,3,4,6,7,8-HpCDF	59.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	9.98	24.6			1.75	J	13C-1,2,3,4,7,8,9-HpCDF	61.2	26 - 138	
OCDF	605	49.2			2.98		13C-OCDF	48.7	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	107	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin	16.6
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TOTALS	
Total TCDD	ND 1.71
Total PeCDD	11.1 13.0
Total HxCDD	240 270
Total HpCDD	2790
Total TCDF	4.05 13.5
Total PeCDF	44.3 45.6
Total HxCDF	136 142
Total HpCDF	493

DL - Sample specific estimated detection limit MDL - Method detection limit LCL-UCL- Lower control limit - upper control limit
 EMPC - Estimated maximum possible concentration RL - Reporting limit Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

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

Matrix: Solid	QC Batch: B5B0068	Lab Sample: B5B0068-BLK1
Sample Size: 10.0 g	Date Extracted: 17-Feb-2015 14:06	Date Analyzed: 19-Feb-15 17:39 Column: ZB-5MS Analyst: MAS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.500	0.0794		0.0778		IS 13C-2,3,7,8-TCDD	97.9	25 - 164	
1,2,3,7,8-PeCDD	ND	2.50	0.0645		0.230		13C-1,2,3,7,8-PeCDD	81.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	2.50	0.0937		0.231		13C-1,2,3,4,7,8-HxCDD	90.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	2.50	0.102		0.126		13C-1,2,3,6,7,8-HxCDD	82.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	2.50	0.102		0.173		13C-1,2,3,7,8,9-HxCDD	87.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.774	2.50			0.263	J	13C-1,2,3,4,6,7,8-HpCDD	93.4	23 - 140	
OCDD	3.55	5.00			0.167	J	13C-OCDD	71.8	17 - 157	
2,3,7,8-TCDF	ND	0.500	0.0621		0.0289		13C-2,3,7,8-TCDF	96.3	24 - 169	
1,2,3,7,8-PeCDF	ND	2.50	0.0771		0.254		13C-1,2,3,7,8-PeCDF	86.8	24 - 185	
2,3,4,7,8-PeCDF	ND	2.50	0.0747		0.211		13C-2,3,4,7,8-PeCDF	87.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	2.50	0.0543		0.154		13C-1,2,3,4,7,8-HxCDF	83.6	26 - 152	
1,2,3,6,7,8-HxCDF	ND	2.50	0.0514		0.195		13C-1,2,3,6,7,8-HxCDF	93.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	2.50	0.0577		0.0805		13C-2,3,4,6,7,8-HxCDF	87.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	2.50	0.0637		0.195		13C-1,2,3,7,8,9-HxCDF	90.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.125	2.50			0.230	J	13C-1,2,3,4,6,7,8-HpCDF	90.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	2.50	0.128		0.211		13C-1,2,3,4,7,8,9-HpCDF	87.4	26 - 138	
OCDF	0.935	5.00			0.470	J	13C-OCDF	73.8	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	109	35 - 197	

Toxic Equivalent Quotient (TEQ) Data	
TEQMinWHO2005Dioxin	0.0103

TOTALS		
Total TCDD	ND	0.0794
Total PeCDD	ND	0.136
Total HxCDD	ND	0.142
Total HpCDD	1.26	
Total TCDF	ND	0.0621
Total PeCDF	ND	0.109
Total HxCDF	ND	0.0744
Total HpCDF	0.125	0.515

DL - Sample specific estimated detection limit MDL - Method detection limit LCL-UCL- Lower control limit - upper control limit
 EMPC - Estimated maximum possible concentration RL - Reporting 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: B5B0068	Lab Sample: B5B0068-BS1					
Sample Size: 10.0 g	Date Extracted: 17-Feb-2015 14:06	Date Analyzed: 19-Feb-15 15:12	Column: ZB-5MS	Analyst: MAS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	17.7	20.0	88.6	67 - 158	IS 13C-2,3,7,8-TCDD	97.7	20 - 175
1,2,3,7,8-PeCDD	95.7	100	95.7	70 - 142	13C-1,2,3,7,8-PeCDD	87.6	21 - 227
1,2,3,4,7,8-HxCDD	105	100	105	70 - 164	13C-1,2,3,4,7,8-HxCDD	92.0	21 - 193
1,2,3,6,7,8-HxCDD	100	100	100	76 - 134	13C-1,2,3,6,7,8-HxCDD	87.8	25 - 163
1,2,3,7,8,9-HxCDD	101	100	101	64 - 162	13C-1,2,3,7,8,9-HxCDD	90.7	21 - 193
1,2,3,4,6,7,8-HpCDD	100	100	100	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	103	26 - 166
OCDD	204	200	102	78 - 144	13C-OCDD	77.0	13 - 199
2,3,7,8-TCDF	18.4	20.0	92.1	75 - 158	13C-2,3,7,8-TCDF	97.6	22 - 152
1,2,3,7,8-PeCDF	98.5	100	98.5	80 - 134	13C-1,2,3,7,8-PeCDF	91.2	21 - 192
2,3,4,7,8-PeCDF	101	100	101	68 - 160	13C-2,3,4,7,8-PeCDF	93.8	13 - 328
1,2,3,4,7,8-HxCDF	101	100	101	72 - 134	13C-1,2,3,4,7,8-HxCDF	88.0	19 - 202
1,2,3,6,7,8-HxCDF	102	100	102	84 - 130	13C-1,2,3,6,7,8-HxCDF	99.7	21 - 159
2,3,4,6,7,8-HxCDF	102	100	102	70 - 156	13C-2,3,4,6,7,8-HxCDF	88.4	22 - 176
1,2,3,7,8,9-HxCDF	102	100	102	78 - 130	13C-1,2,3,7,8,9-HxCDF	94.5	17 - 205
1,2,3,4,6,7,8-HpCDF	103	100	103	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	95.2	21 - 158
1,2,3,4,7,8,9-HpCDF	104	100	104	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	97.5	20 - 186
OCDF	206	200	103	63 - 170	13C-OCDF	79.9	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	108	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: ST-CB-08-20150210-S **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Leidos	Matrix: Sediment	Lab Sample: 1500166-04 Date Received: 12-Feb-2015 9:12
Project: 1400647	Sample Size: 20.6 g	QC Batch: B5B0068 Date Extracted: 17-Feb-2015 14:06
Date Collected: 10-Feb-2015 15:38	% Solids: 48.6	Date Analyzed: 20-Feb-15 11:44 Column: DB-225 Analyst: CVG
		21-Feb-15 03:31 Column: ZB-5MS Analyst: MAS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.500		0.228	0.0778		IS 13C-2,3,7,8-TCDD	92.1	25 - 164	
1,2,3,7,8-PeCDD	1.51	2.50			0.230	J	13C-1,2,3,7,8-PeCDD	79.4	25 - 181	
1,2,3,4,7,8-HxCDD	5.11	2.50			0.231		13C-1,2,3,4,7,8-HxCDD	88.9	32 - 141	
1,2,3,6,7,8-HxCDD	23.7	2.50			0.126		13C-1,2,3,6,7,8-HxCDD	79.9	28 - 130	
1,2,3,7,8,9-HxCDD	9.01	2.50			0.173		13C-1,2,3,7,8,9-HxCDD	86.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	922	2.50			0.263	B	13C-1,2,3,4,6,7,8-HpCDD	91.6	23 - 140	
OCDD	10200	5.00			0.167	B, E	13C-OCDD	69.2	17 - 157	
2,3,7,8-TCDF	1.11	0.500			0.0289		13C-2,3,7,8-TCDF	98.9	24 - 169	
1,2,3,7,8-PeCDF	1.68	2.50			0.254	J	13C-1,2,3,7,8-PeCDF	92.6	24 - 185	
2,3,4,7,8-PeCDF	2.21	2.50			0.211	J	13C-2,3,4,7,8-PeCDF	93.0	21 - 178	
1,2,3,4,7,8-HxCDF	6.46	2.50			0.154		13C-1,2,3,4,7,8-HxCDF	88.5	26 - 152	
1,2,3,6,7,8-HxCDF	3.29	2.50			0.195		13C-1,2,3,6,7,8-HxCDF	91.5	26 - 123	
2,3,4,6,7,8-HxCDF	5.14	2.50			0.0805		13C-2,3,4,6,7,8-HxCDF	87.3	28 - 136	
1,2,3,7,8,9-HxCDF	0.428	2.50			0.195	J	13C-1,2,3,7,8,9-HxCDF	88.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	92.0	2.50			0.230	B	13C-1,2,3,4,6,7,8-HpCDF	84.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	6.53	2.50			0.211		13C-1,2,3,4,7,8,9-HpCDF	82.7	26 - 138	
OCDF	370	5.00			0.470	B	13C-OCDF	68.4	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	102	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin 21.0

TOTALS										
Total TCDD	2.39			3.83						
Total PeCDD	15.0			15.5						
Total HxCDD	381									
Total HpCDD	3990					B				
Total TCDF	17.8			17.9						
Total PeCDF	44.1									
Total HxCDF	152									
Total HpCDF	377					B				

DL - Sample specific estimated detection limit MDL - Method detection limit LCL-UCL - Lower control limit - upper control limit
 EMPC - Estimated maximum possible concentration RL - Reporting 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: ST-CB-04A-20150210-S **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Leidos	Matrix: Sediment	Lab Sample: 1500166-05 Date Received: 12-Feb-2015 9:12
Project: 1400647	Sample Size: 16.3 g	QC Batch: B5B0068 Date Extracted: 17-Feb-2015 14:06
Date Collected: 10-Feb-2015 11:51	% Solids: 63.1	Date Analyzed : 20-Feb-15 12:16 Column: DB-225 Analyst: CVG
		21-Feb-15 04:20 Column: ZB-5MS Analyst: MAS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.487		0.302	0.0778		IS 13C-2,3,7,8-TCDD	91.5	25 - 164	
1,2,3,7,8-PeCDD	1.92	2.43			0.230	J	13C-1,2,3,7,8-PeCDD	81.6	25 - 181	
1,2,3,4,7,8-HxCDD	4.50	2.43			0.231		13C-1,2,3,4,7,8-HxCDD	84.0	32 - 141	
1,2,3,6,7,8-HxCDD	22.4	2.43			0.126		13C-1,2,3,6,7,8-HxCDD	78.7	28 - 130	
1,2,3,7,8,9-HxCDD	9.21	2.43			0.173		13C-1,2,3,7,8,9-HxCDD	81.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	823	2.43			0.263	B	13C-1,2,3,4,6,7,8-HpCDD	89.1	23 - 140	
OCDD	9420	4.87			0.167	B, E	13C-OCDD	65.2	17 - 157	
2,3,7,8-TCDF	1.41	0.487			0.0289		13C-2,3,7,8-TCDF	93.3	24 - 169	
1,2,3,7,8-PeCDF	1.58	2.43			0.254	J	13C-1,2,3,7,8-PeCDF	89.2	24 - 185	
2,3,4,7,8-PeCDF	2.88	2.43			0.211		13C-2,3,4,7,8-PeCDF	90.9	21 - 178	
1,2,3,4,7,8-HxCDF	6.60	2.43			0.154		13C-1,2,3,4,7,8-HxCDF	85.0	26 - 152	
1,2,3,6,7,8-HxCDF	3.61	2.43			0.195		13C-1,2,3,6,7,8-HxCDF	86.5	26 - 123	
2,3,4,6,7,8-HxCDF	5.13	2.43			0.0805		13C-2,3,4,6,7,8-HxCDF	84.3	28 - 136	
1,2,3,7,8,9-HxCDF	0.454	2.43			0.195	J	13C-1,2,3,7,8,9-HxCDF	84.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	83.7	2.43			0.230	B	13C-1,2,3,4,6,7,8-HpCDF	82.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	5.95	2.43			0.211		13C-1,2,3,4,7,8,9-HpCDF	78.7	26 - 138	
OCDF	287	4.87			0.470	B	13C-OCDF	63.6	17 - 157	
							CRS 37Cl-2,3,7,8-TCDD	104	35 - 197	

Toxic Equivalent Quotient (TEQ) Data

TEQMinWHO2005Dioxin	20.2
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TOTALS	
Total TCDD	2.60
Total PeCDD	17.4
Total HxCDD	294
Total HpCDD	3220
Total TCDF	26.3
Total PeCDF	45.5
Total HxCDF	131
Total HpCDF	319

	5.37
	B
	27.0
	45.6
	B

DL - Sample specific estimated detection limit MDL - Method detection limit LCL-UCL- Lower control limit - upper control limit
 EMPC - Estimated maximum possible concentration RL - Reporting 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 1668C

Matrix: Aqueous	QC Batch: B5B0085	Lab Sample: B5B0085-BLK1
Sample Size: 1.00 L	Date Extracted: 20-Feb-2015 8:53	Date Analyzed: 26-Feb-15 14:58 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	ND	5.00	1.37		1.21		PCB-43/49	ND	10.0	1.86		3.38	
PCB-2	ND	5.00	1.21		1.75		PCB-44	ND	5.00	2.19		2.48	
PCB-3	ND	5.00	1.21		1.49		PCB-45	ND	5.00	2.04		1.96	
PCB-4/10	ND	10.0	6.44		5.64		PCB-46	ND	5.00	2.23		2.49	
PCB-5/8	ND	10.0	5.17		3.59		PCB-47	ND	5.00	1.59		4.42	
PCB-6	ND	5.00	5.30		3.10		PCB-48/75	ND	10.0	1.44		2.09	
PCB-7/9	ND	10.0	5.24		6.22		PCB-50	ND	5.00	1.93		1.40	
PCB-11	13.7	5.00			3.86		PCB-51	ND	5.00	1.82		1.42	
PCB-12/13	ND	10.0	5.09		5.01		PCB-52/69	ND	10.0	1.64		3.64	
PCB-14	ND	5.00	4.38		3.98		PCB-53	ND	5.00	1.86		1.12	
PCB-15	ND	5.00	4.47		2.53		PCB-54	ND	5.00	1.47		1.51	
PCB-16/32	2.23	10.0			2.87	J	PCB-55	ND	5.00	1.68		1.19	
PCB-17	ND	5.00	1.31		1.37		PCB-56/60	ND	10.0	1.87		2.19	
PCB-18	2.51	5.00			2.57	J	PCB-57	ND	5.00	1.58		0.857	
PCB-19	ND	5.00	1.57		2.38		PCB-58	ND	5.00	1.56		1.81	
PCB-20/21/33	2.48	15.0			10.3	J	PCB-61/70	ND	10.0	1.57		2.40	
PCB-22	ND	5.00	1.42		3.17		PCB-62	ND	5.00	1.41		1.46	
PCB-23	ND	5.00	1.37		1.35		PCB-63	ND	5.00	1.52		0.696	
PCB-24/27	ND	10.0	0.965		3.16		PCB-65	ND	5.00	1.45		0.953	
PCB-25	ND	5.00	1.51		3.34		PCB-66/76	ND	10.0	1.50		2.82	
PCB-26	ND	5.00	1.34		2.19		PCB-67	ND	5.00	1.62		1.22	
PCB-28	2.69	5.00			2.90	J	PCB-68	ND	5.00	1.19		1.24	
PCB-29	ND	5.00	1.37		1.60		PCB-73	ND	5.00	1.50		1.56	
PCB-30	ND	5.00	0.991		2.09		PCB-74	ND	5.00	1.46		1.53	
PCB-31	2.53	5.00			4.29	J	PCB-77	ND	5.00	2.32		1.34	
PCB-34	ND	5.00	1.27		2.34		PCB-78	ND	5.00	2.39		0.990	
PCB-35	ND	5.00	1.34		1.65		PCB-79	ND	5.00	1.78		1.60	
PCB-36	ND	5.00	1.29		2.69		PCB-80	ND	5.00	1.56		1.98	
PCB-37	ND	5.00	1.25		1.92		PCB-81	ND	5.00	2.18		2.34	
PCB-38	ND	5.00	1.35		1.56		PCB-82	ND	5.00	5.26		1.69	
PCB-39	ND	5.00	1.33		2.60		PCB-83	ND	5.00	2.82		1.32	
PCB-40	ND	5.00	2.23		3.08		PCB-84/92	ND	10.0	3.51		3.38	
PCB-41/64/71/72	ND	20.0	1.43		5.57		PCB-85/116	ND	10.0	3.36		2.83	
PCB-42/59	ND	10.0	1.54		2.84		PCB-86	ND	5.00	4.53		2.34	

RL - Reporting limit

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

MDL - Method detection limit

Sample ID: Method Blank

EPA Method 1668C

Matrix: Aqueous	QC Batch: B5B0085	Lab Sample: B5B0085-BLK1
Sample Size: 1.00 L	Date Extracted: 20-Feb-2015 8:53	Date Analyzed: 26-Feb-15 14:58 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-87/117/125	ND	15.0	2.94		3.79		PCB-133/142	ND	10.0	2.73		2.19	
PCB-88/91	ND	5.00	3.74		3.25		PCB-134/143	ND	10.0	4.82		2.40	
PCB-89	ND	5.00	3.78		1.84		PCB-135	ND	5.00	4.85		2.90	
PCB-90/101	ND	10.0	3.12		1.92		PCB-136	ND	5.00	3.39		2.89	
PCB-93	ND	5.00	3.96		1.47		PCB-137	ND	5.00	2.45		2.08	
PCB-94	ND	5.00	3.72		1.91		PCB-138/163/164	ND	15.0	1.89		2.68	
PCB-95/98/102	ND	15.0		3.66	6.58		PCB-139/149	ND	10.0	4.44		7.87	
PCB-96	ND	5.00	2.69		2.16		PCB-140	ND	5.00	4.97		3.52	
PCB-97	ND	5.00	3.61		1.24		PCB-141	ND	5.00	2.50		1.15	
PCB-99	ND	5.00	3.01		1.94		PCB-144	ND	5.00	4.52		3.22	
PCB-100	ND	5.00	3.05		2.03		PCB-145	ND	5.00	3.54		1.73	
PCB-103	ND	5.00	3.04		2.28		PCB-146/165	ND	10.0	2.30		1.91	
PCB-104	ND	5.00	2.33		0.931		PCB-147	ND	5.00	4.96		3.62	
PCB-105	ND	5.00	4.02		2.21		PCB-148	ND	5.00	4.73		1.68	
PCB-106/118	ND	10.0	3.22		2.44		PCB-150	ND	5.00	3.43		1.14	
PCB-107/109	ND	10.0	2.92		1.98		PCB-151	ND	5.00	4.73		3.59	
PCB-108/112	ND	10.0	3.33		1.86		PCB-152	ND	5.00	3.31		1.82	
PCB-110	ND	5.00	2.75		1.94		PCB-153	ND	5.00	2.08		1.83	
PCB-111/115	ND	10.0	2.52		0.768		PCB-154	ND	5.00	4.34		2.78	
PCB-113	ND	5.00	2.81		1.31		PCB-155	ND	5.00	3.23		1.45	
PCB-114	ND	5.00	3.93		1.81		PCB-156	ND	5.00	1.47		1.74	
PCB-119	ND	5.00	2.49		0.949		PCB-157	ND	5.00	1.44		1.17	
PCB-120	ND	5.00	2.36		1.01		PCB-158/160	ND	10.0	1.77		1.99	
PCB-121	ND	5.00	2.39		1.94		PCB-159	ND	5.00	1.67		1.20	
PCB-122	ND	5.00	4.68		1.84		PCB-166	ND	5.00	1.78		0.920	
PCB-123	ND	5.00	3.12		1.35		PCB-167	ND	5.00	1.71		1.65	
PCB-124	ND	5.00	3.00		1.79		PCB-168	ND	5.00	1.83		0.933	
PCB-126	ND	5.00	0.415		2.05		PCB-169	ND	5.00	1.45		1.12	
PCB-127	ND	5.00	4.19		0.808		PCB-170	ND	5.00	2.05		1.38	
PCB-128/162	ND	10.0	1.97		1.68		PCB-171	ND	5.00	2.23		1.61	
PCB-129	ND	5.00	2.64		1.11		PCB-172	ND	5.00	2.39		1.46	
PCB-130	ND	5.00	3.14		2.21		PCB-173	ND	5.00	2.93		1.49	
PCB-131	ND	5.00	2.94		1.46		PCB-174	ND	5.00	2.52		1.42	
PCB-132/161	ND	10.0	2.22		2.34		PCB-175	ND	5.00	4.03		3.15	

RL - Reporting limit

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

MDL - Method detection limit

Sample ID: Method Blank

EPA Method 1668C

Matrix: Aqueous	QC Batch: B5B0085	Lab Sample: B5B0085-BLK1
Sample Size: 1.00 L	Date Extracted: 20-Feb-2015 8:53	Date Analyzed: 26-Feb-15 14:58 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-176	ND	5.00	2.90		2.17		Total triCB	12.4	5.00				
PCB-177	ND	5.00	2.56		1.34		Total tetraCB	ND	5.00	2.39			
PCB-178	ND	5.00	3.92		2.25		Total pentaCB	ND	5.00		3.66		
PCB-179	ND	5.00	3.03		1.57		Total hexaCB	ND	5.00	4.97			
PCB-180	ND	5.00	2.24		0.610		Total heptaCB	ND	5.00	4.03			
PCB-181	ND	5.00	2.40		1.01		Total octaCB	ND	5.00	4.07			
PCB-182/187	ND	10.0	3.71		6.20		Total nonaCB	ND	5.00	2.81			
PCB-183	ND	5.00	3.45		3.29		DecaCB	2.82	5.00				J
PCB-184	ND	5.00	3.15		1.25		Total PCB	29.0	5.00				
PCB-185	ND	5.00	2.31		1.47								
PCB-186	ND	5.00	2.90		2.43								
PCB-188	ND	5.00	2.77		1.08								
PCB-189	ND	5.00	1.56		1.49								
PCB-190	ND	5.00	1.53		1.70								
PCB-191	ND	5.00	1.74		1.96								
PCB-192	ND	5.00	1.86		1.69								
PCB-193	ND	5.00	1.75		1.46								
PCB-194	ND	5.00	2.30		1.71								
PCB-195	ND	5.00	2.60		1.47								
PCB-196/203	ND	10.0	3.64		6.35								
PCB-197	ND	5.00	2.59		1.80								
PCB-198	ND	5.00	4.01		3.78								
PCB-199	ND	5.00	4.07		4.05								
PCB-200	ND	5.00	2.92		1.75								
PCB-201	ND	5.00	2.76		1.02								
PCB-202	ND	5.00	2.96		1.55								
PCB-204	ND	5.00	2.81		1.48								
PCB-205	ND	5.00	1.84		1.53								
PCB-206	ND	5.00	2.81		1.32								
PCB-207	ND	5.00	1.50		1.51								
PCB-208	ND	5.00	1.53		1.34								
PCB-209	2.82	5.00			1.86	J							
Total monoCB	ND	5.00	1.37										
Total diCB	13.7	5.00											

RL - Reporting limit

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

MDL - Method detection limit

Sample ID: Method Blank

EPA Method 1668C

Matrix: Aqueous	QC Batch: B5B0085	Lab Sample: B5B0085-BLK1
Sample Size: 1.00 L	Date Extracted: 20-Feb-2015 8:53	Date Analyzed: 26-Feb-15 14:58 Column: ZB-1 Analyst: DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	84.7	5-145		13C-PCB-157	96.8	10-145	
13C-PCB-3	98.3	5-145		13C-PCB-159	83.4	10-145	
13C-PCB-4	74.9	5-145		13C-PCB-167	84.2	10-145	
13C-PCB-11	85.1	5-145		13C-PCB-169	98.6	10-145	
13C-PCB-9	76.9	5-145		13C-PCB-170	110	10-145	
13C-PCB-19	93.0	5-145		13C-PCB-180	103	10-145	
13C-PCB-28	74.1	5-145		13C-PCB-188	66.5	10-145	
13C-PCB-32	95.7	5-145		13C-PCB-189	103	10-145	
13C-PCB-37	96.7	5-145		13C-PCB-194	98.8	10-145	
13C-PCB-47	122	5-145		13C-PCB-202	107	10-145	
13C-PCB-52	120	5-145		13C-PCB-206	107	10-145	
13C-PCB-54	103	5-145		13C-PCB-208	101	10-145	
13C-PCB-70	106	5-145		13C-PCB-209	105	10-145	
13C-PCB-77	69.6	10-145		CRS 13C-PCB-79	90.0	10-145	
13C-PCB-80	94.2	10-145		13C-PCB-178	92.2	10-145	
13C-PCB-81	72.7	10-145					
13C-PCB-95	136	10-145					
13C-PCB-97	106	10-145					
13C-PCB-101	110	10-145					
13C-PCB-104	137	10-145					
13C-PCB-105	69.2	10-145					
13C-PCB-114	75.2	10-145					
13C-PCB-118	85.0	10-145					
13C-PCB-123	93.9	10-145					
13C-PCB-126	79.8	10-145					
13C-PCB-127	74.9	10-145					
13C-PCB-138	84.3	10-145					
13C-PCB-141	77.8	10-145					
13C-PCB-153	77.3	10-145					
13C-PCB-155	108	10-145					
13C-PCB-156	95.6	10-145					

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific 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: B5B0085
Date Extracted: 20-Feb-2015 8:53

Lab Sample: B5B0085-BS1
Date Analyzed: 26-Feb-15 12:49 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-1	758	1000	75.8	60 - 135	IS 13C-PCB-1	73.5	15 - 145
PCB-3	768	1000	76.8	60 - 135	IS 13C-PCB-3	81.9	15 - 145
PCB-4/10	1640	2000	82.2	60 - 135	IS 13C-PCB-4	63.4	15 - 145
PCB-15	908	1000	90.8	60 - 135	IS 13C-PCB-11	66.9	15 - 145
PCB-19	973	1000	97.3	60 - 135	IS 13C-PCB-9	62.2	15 - 145
PCB-37	933	1000	93.3	60 - 135	IS 13C-PCB-19	74.0	15 - 145
PCB-54	1010	1000	101	60 - 135	IS 13C-PCB-28	60.1	15 - 145
PCB-77	942	1000	94.2	60 - 135	IS 13C-PCB-32	75.7	15 - 145
PCB-81	931	1000	93.1	60 - 135	IS 13C-PCB-37	85.7	15 - 145
PCB-104	969	1000	96.9	60 - 135	IS 13C-PCB-47	67.6	15 - 145
PCB-105	783	1000	78.3	60 - 135	IS 13C-PCB-52	72.9	15 - 145
PCB-106/118	1880	2000	93.8	60 - 135	IS 13C-PCB-54	60.4	15 - 145
PCB-114	810	1000	81.0	60 - 135	IS 13C-PCB-70	76.0	15 - 145
PCB-123	936	1000	93.6	60 - 135	IS 13C-PCB-77	66.5	40 - 145
PCB-126	832	1000	83.2	60 - 135	IS 13C-PCB-80	75.0	40 - 145
PCB-155	982	1000	98.2	60 - 135	IS 13C-PCB-81	69.0	40 - 145
PCB-156	967	1000	96.7	60 - 135	IS 13C-PCB-95	84.1	40 - 145
PCB-157	981	1000	98.1	60 - 135	IS 13C-PCB-97	82.7	40 - 145
PCB-167	966	1000	96.6	60 - 135	IS 13C-PCB-101	81.3	40 - 145
PCB-169	1030	1000	103	60 - 135	IS 13C-PCB-104	74.1	40 - 145
PCB-188	981	1000	98.1	60 - 135	IS 13C-PCB-105	68.5	40 - 145
PCB-189	1010	1000	101	60 - 135	IS 13C-PCB-114	65.5	40 - 145
PCB-202	982	1000	98.2	60 - 135	IS 13C-PCB-118	74.6	40 - 145
PCB-205	861	1000	86.1	60 - 135	IS 13C-PCB-123	78.6	40 - 145
PCB-206	1040	1000	104	60 - 135	IS 13C-PCB-126	72.8	40 - 145
PCB-208	1000	1000	100	60 - 135	IS 13C-PCB-127	66.5	40 - 145
PCB-209	883	1000	88.3	60 - 135	IS 13C-PCB-138	68.3	40 - 145
					IS 13C-PCB-141	67.6	40 - 145
					IS 13C-PCB-153	68.5	40 - 145
					IS 13C-PCB-155	70.6	40 - 145
					IS 13C-PCB-156	79.7	40 - 145
					IS 13C-PCB-157	78.9	40 - 145
					IS 13C-PCB-159	71.5	40 - 145
					IS 13C-PCB-167	73.0	40 - 145
					IS 13C-PCB-169	74.5	40 - 145
					IS 13C-PCB-170	73.1	40 - 145
					IS 13C-PCB-180	70.4	40 - 145
					IS 13C-PCB-188	60.5	40 - 145
					IS 13C-PCB-189	66.4	40 - 145
					IS 13C-PCB-194	82.3	40 - 145

Sample ID: OPR

EPA Method 1668C

Matrix: Aqueous
Sample Size: 1.00 L

QC Batch: B5B0085
Date Extracted: 20-Feb-2015 8:53

Lab Sample: B5B0085-BS1
Date Analyzed: 26-Feb-15 12:49 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
					IS 13C-PCB-202	74.4	40 - 145
					IS 13C-PCB-206	79.5	40 - 145
					IS 13C-PCB-208	81.6	40 - 145
					IS 13C-PCB-209	72.0	40 - 145
					CRS 13C-PCB-79	94.1	40 - 145
					CRS 13C-PCB-178	89.0	40 - 145

LCL-UCL - Lower control limit - upper control limit

Sample ID: ST-TS-01-20150210-W

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1500166-01		Date Received:	12-Feb-2015 9:12		
Project:	1400647			Sample Size:	0.992 L		QC Batch:	B5B0085		Date Extracted:	20-Feb-2015 8:53		
Date Collected:	10-Feb-2015 14:08						Date Analyzed:	26-Feb-15 17:06		Column:	ZB-1 Analyst: DMS		

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	96.6	50.4			1.21	D	PCB-44	1700	50.4			2.48	D
PCB-2	25.2	50.4			1.75	J, D	PCB-45	214	50.4			1.96	D
PCB-3	91.6	50.4			1.49	D	PCB-46	131	50.4			2.49	D
PCB-4/10	128	101			5.64	D	PCB-47	288	50.4			4.42	D
PCB-5/8	408	101			3.59	D	PCB-48/75	163	101			2.09	D
PCB-6	105	50.4			3.10	D	PCB-50	ND	50.4	22.3		1.40	D
PCB-7/9	ND	101	54.3		6.22	D	PCB-51	82.5	50.4			1.42	D
PCB-11	115	50.4			3.86	B, D	PCB-52/69	2740	101			3.64	D
PCB-12/13	ND	101	54.8		5.01	D	PCB-53	307	50.4			1.12	D
PCB-14	ND	50.4	47.2		3.98	D	PCB-54	ND	50.4	16.9		1.51	D
PCB-15	548	50.4			2.53	D	PCB-55	61.1	50.4			1.19	D
PCB-16/32	400	101			2.87	B, D	PCB-56/60	897	101			2.19	D
PCB-17	178	50.4			1.37	D	PCB-57	ND	50.4	16.4		0.857	D
PCB-18	483	50.4			2.57	B, D	PCB-58	ND	50.4	16.2		1.81	D
PCB-19	77.3	50.4			2.38	D	PCB-61/70	2420	101			2.40	D
PCB-20/21/33	462	151			10.3	B, D	PCB-62	ND	50.4	19.0		1.46	D
PCB-22	284	50.4			3.17	D	PCB-63	46.0	50.4			0.696	J, D
PCB-23	ND	50.4	14.9		1.35	D	PCB-65	ND	50.4	19.6		0.953	D
PCB-24/27	63.8	101			3.16	J, D	PCB-66/76	1450	101			2.82	D
PCB-25	82.0	50.4			3.34	D	PCB-67	40.1	50.4			1.22	J, D
PCB-26	144	50.4			2.19	D	PCB-68	ND	50.4	16.0		1.24	D
PCB-28	1020	50.4			2.90	B, D	PCB-73	ND	50.4	17.0		1.56	D
PCB-29	ND	50.4	14.9		1.60	D	PCB-74	660	50.4			1.53	D
PCB-30	ND	50.4	10.2		2.09	D	PCB-77	231	50.4			1.34	D
PCB-31	738	50.4			4.29	B, D	PCB-78	ND	50.4	15.7		0.990	D
PCB-34	ND	50.4	13.9		2.34	D	PCB-79	86.6	50.4			1.60	D
PCB-35	29.0	50.4			1.65	J, D	PCB-80	ND	50.4	14.0		1.98	D
PCB-36	ND	50.4	14.6		2.69	D	PCB-81	16.8	50.4			2.34	J, D
PCB-37	499	50.4			1.92	D	PCB-82	989	50.4			1.69	D
PCB-38	ND	50.4	15.3		1.56	D	PCB-83	ND	50.4	25.0		1.32	D
PCB-39	ND	50.4	15.1		2.60	D	PCB-84/92	3390	101			3.38	D
PCB-40	238	50.4			3.08	D	PCB-85/116	999	101			2.83	D
PCB-41/64/71/72	1170	202			5.57	D	PCB-86	ND	50.4	40.2		2.34	D
PCB-42/59	387	101			2.84	D	PCB-87/117/125	2350	151			3.79	D
PCB-43/49	1010	101			3.38	D	PCB-88/91	1240	50.4			3.25	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific estimated detection limit
MDL - Method detection limit

LCL-UCL- Lower control limit - upper control limit

Sample ID: ST-TS-01-20150210-W

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1500166-01		Date Received:	12-Feb-2015 9:12		
Project:	1400647			Sample Size:	0.992 L		QC Batch:	B5B0085		Date Extracted:	20-Feb-2015 8:53		
Date Collected:	10-Feb-2015 14:08						Date Analyzed :	26-Feb-15 17:06		Column:	ZB-1 Analyst: DMS		

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	ND	50.4		70.3	1.84	D	PCB-136	1290	50.4			2.89	D
PCB-90/101	6330	101			1.92	D	PCB-137	553	50.4			2.08	D
PCB-93	ND	50.4	41.8		1.47	D	PCB-138/163/164	10500	151			2.68	D
PCB-94	41.4	50.4			1.91	J, D	PCB-139/149	7780	101			7.87	D
PCB-95/98/102	6670	151			6.58	D	PCB-140	ND	50.4		38.6	3.52	D
PCB-96	43.6	50.4			2.16	J, D	PCB-141	1940	50.4			1.15	D
PCB-97	2020	50.4			1.24	D	PCB-144	473	50.4			3.22	D
PCB-99	2370	50.4			1.94	D	PCB-145	ND	50.4	23.3		1.73	D
PCB-100	23.4	50.4			2.03	J, D	PCB-146/165	1410	101			1.91	D
PCB-103	42.8	50.4			2.28	J, D	PCB-147	ND	50.4		187	3.62	D
PCB-104	ND	50.4	25.6		0.931	D	PCB-148	ND	50.4	31.1		1.68	D
PCB-105	1910	50.4			2.21	D	PCB-150	ND	50.4	22.5		1.14	D
PCB-106/118	5780	101			2.44	D	PCB-151	2010	50.4			3.59	D
PCB-107/109	383	101			1.98	D	PCB-152	ND	50.4	21.8		1.82	D
PCB-108/112	364	101			1.86	D	PCB-153	7440	50.4			1.83	D
PCB-110	10200	50.4			1.94	D	PCB-154	101	50.4			2.78	D
PCB-111/115	86.6	101			0.768	J, D	PCB-155	ND	50.4	21.2		1.45	D
PCB-113	ND	50.4		12.3	1.31	D	PCB-156	929	50.4			1.74	D
PCB-114	85.3	50.4			1.81	D	PCB-157	256	50.4			1.17	D
PCB-119	115	50.4			0.949	D	PCB-158/160	1220	101			1.99	D
PCB-120	31.5	50.4			1.01	J, D	PCB-159	ND	50.4	25.7		1.20	D
PCB-121	ND	50.4	25.2		1.94	D	PCB-166	ND	50.4		40.1	0.920	D
PCB-122	75.9	50.4			1.84	D	PCB-167	451	50.4			1.65	D
PCB-123	130	50.4			1.35	D	PCB-168	ND	50.4	24.8		0.933	D
PCB-124	361	50.4			1.79	D	PCB-169	ND	50.4	34.5		1.12	D
PCB-126	49.5	50.4			2.05	J, D	PCB-170	2370	50.4			1.38	D
PCB-127	ND	50.4	29.7		0.808	D	PCB-171	780	50.4			1.61	D
PCB-128/162	1910	101			1.68	D	PCB-172	466	50.4			1.46	D
PCB-129	600	50.4			1.11	D	PCB-173	98.7	50.4			1.49	D
PCB-130	877	50.4			2.21	D	PCB-174	3130	50.4			1.42	D
PCB-131	ND	50.4	39.9		1.46	D	PCB-175	109	50.4			3.15	D
PCB-132/161	3540	101			2.34	D	PCB-176	285	50.4			2.17	D
PCB-133/142	336	101			2.19	D	PCB-177	1700	50.4			1.34	D
PCB-134/143	644	101			2.40	D	PCB-178	426	50.4			2.25	D
PCB-135	1350	50.4			2.90	D	PCB-179	1010	50.4			1.57	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific estimated detection limit
MDL - Method detection limit

LCL-UCL- Lower control limit - upper control limit

Sample ID: ST-TS-01-20150210-W

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1500166-01		Date Received:	12-Feb-2015 9:12		
Project:	1400647			Sample Size:	0.992 L		QC Batch:	B5B0085		Date Extracted:	20-Feb-2015 8:53		
Date Collected:	10-Feb-2015 14:08						Date Analyzed :	26-Feb-15 17:06		Column:	ZB-1 Analyst: DMS		

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	5830	50.4			0.610	D	Total octaCB	4800	50.4		5140		
PCB-181	ND	50.4	29.8		1.01	D	Total nonaCB	1060	50.4		1150		
PCB-182/187	2710	101			6.20	D	DecaCB	337	50.4				B
PCB-183	1230	50.4			3.29	D	Total PCB	140000	50.4				B
PCB-184	ND	50.4	18.2		1.25	D							
PCB-185	326	50.4			1.47	D							
PCB-186	ND	50.4	16.7		2.43	D							
PCB-188	ND	50.4	16.0		1.08	D							
PCB-189	100	50.4			1.49	D							
PCB-190	439	50.4			1.70	D							
PCB-191	135	50.4			1.96	D							
PCB-192	ND	50.4	23.1		1.69	D							
PCB-193	279	50.4			1.46	D							
PCB-194	1010	50.4			1.71	D							
PCB-195	485	50.4			1.47	D							
PCB-196/203	1430	101			6.35	D							
PCB-197	55.0	50.4			1.80	D							
PCB-198	ND	50.4		60.6	3.78	D							
PCB-199	1390	50.4			4.05	D							
PCB-200	190	50.4			1.75	D							
PCB-201	180	50.4			1.02	D							
PCB-202	ND	50.4		285	1.55	D							
PCB-204	ND	50.4	15.5		1.48	D							
PCB-205	58.6	50.4			1.53	D							
PCB-206	831	50.4			1.32	D							
PCB-207	ND	50.4		86.1	1.51	D							
PCB-208	232	50.4			1.34	D							
PCB-209	337	50.4			1.86	B, D							
Total monoCB	213	50.4											
Total diCB	1300	50.4				B							
Total triCB	4460	50.4				B							
Total tetraCB	14300	50.4											
Total pentaCB	46100	50.4		46200									
Total hexaCB	45700	50.4		45900									
Total heptaCB	21400	50.4											

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific estimated detection limit
MDL - Method detection limit

LCL-UCL- Lower control limit - upper control limit

Sample ID: ST-TS-01-20150210-W

EPA Method 1668C

Client Data		Sample Data		Laboratory Data	
Name:	Leidos	Matrix:	Aqueous	Lab Sample:	1500166-01
Project:	1400647	Sample Size:	0.992 L	Date Received:	12-Feb-2015 9:12
Date Collected:	10-Feb-2015 14:08			QC Batch:	B5B0085
				Date Analyzed :	26-Feb-15 17:06
				Column:	ZB-1
				Analyst:	DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	96.9	5 -145	D	13C-PCB-170	60.0	10 -145	D
13C-PCB-3	98.2	5 -145	D	13C-PCB-180	56.6	10 -145	D
13C-PCB-4	77.7	5 -145	D	13C-PCB-188	67.4	10 -145	D
13C-PCB-11	84.7	5 -145	D	13C-PCB-189	50.9	10 -145	D
13C-PCB-9	80.2	5 -145	D	13C-PCB-194	77.3	10 -145	D
13C-PCB-19	91.7	5 -145	D	13C-PCB-202	60.7	10 -145	D
13C-PCB-28	85.3	5 -145	D	13C-PCB-206	84.6	10 -145	D
13C-PCB-32	91.7	5 -145	D	13C-PCB-208	84.2	10 -145	D
13C-PCB-37	92.7	5 -145	D	13C-PCB-209	72.1	10 -145	D
13C-PCB-47	76.7	5 -145	D	CRS 13C-PCB-79	98.7	10 -145	D
13C-PCB-52	80.6	5 -145	D	13C-PCB-178	85.2	10 -145	D
13C-PCB-54	77.5	5 -145	D				
13C-PCB-70	79.7	5 -145	D				
13C-PCB-77	83.4	10 -145	D				
13C-PCB-80	79.6	10 -145	D				
13C-PCB-81	82.8	10 -145	D				
13C-PCB-95	78.2	10 -145	D				
13C-PCB-97	85.1	10 -145	D				
13C-PCB-101	80.7	10 -145	D				
13C-PCB-104	75.8	10 -145	D				
13C-PCB-105	80.3	10 -145	D				
13C-PCB-114	81.2	10 -145	D				
13C-PCB-118	73.3	10 -145	D				
13C-PCB-123	79.1	10 -145	D				
13C-PCB-126	78.1	10 -145	D				
13C-PCB-127	75.8	10 -145	D				
13C-PCB-138	71.4	10 -145	D				
13C-PCB-141	72.4	10 -145	D				
13C-PCB-153	73.5	10 -145	D				
13C-PCB-155	72.9	10 -145	D				
13C-PCB-156	65.6	10 -145	D				
13C-PCB-157	63.9	10 -145	D				
13C-PCB-159	71.6	10 -145	D				
13C-PCB-167	73.8	10 -145	D				
13C-PCB-169	58.8	10 -145	D				

RL - Reporting limit

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

MDL - Method detection limit

Sample ID: ST-FD-02-20150210-W

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1500166-02		Date Received:	12-Feb-2015 9:12		
Project:	1400647			Sample Size:	1.00 L		QC Batch:	B5B0085		Date Extracted:	20-Feb-2015 8:53		
Date Collected:	10-Feb-2015 14:08						Date Analyzed :	26-Feb-15 18:10		Column:	ZB-1 Analyst: DMS		

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	72.5	50.0			1.21	D	PCB-44	1540	50.0			2.48	D
PCB-2	23.3	50.0			1.75	J, D	PCB-45	177	50.0			1.96	D
PCB-3	73.2	50.0			1.49	D	PCB-46	101	50.0			2.49	D
PCB-4/10	99.6	100			5.64	J, D	PCB-47	278	50.0			4.42	D
PCB-5/8	316	100			3.59	D	PCB-48/75	128	100			2.09	D
PCB-6	83.4	50.0			3.10	D	PCB-50	ND	50.0	24.3		1.40	D
PCB-7/9	ND	100	56.0		6.22	D	PCB-51	65.8	50.0			1.42	D
PCB-11	90.7	50.0			3.86	B, D	PCB-52/69	2440	100			3.64	D
PCB-12/13	ND	100	56.1		5.01	D	PCB-53	279	50.0			1.12	D
PCB-14	ND	50.0	48.3		3.98	D	PCB-54	ND	50.0	18.4		1.51	D
PCB-15	442	50.0			2.53	D	PCB-55	50.7	50.0			1.19	D
PCB-16/32	363	100			2.87	B, D	PCB-56/60	719	100			2.19	D
PCB-17	154	50.0			1.37	D	PCB-57	ND	50.0	20.8		0.857	D
PCB-18	430	50.0			2.57	B, D	PCB-58	ND	50.0	20.4		1.81	D
PCB-19	69.8	50.0			2.38	D	PCB-61/70	2180	100			2.40	D
PCB-20/21/33	442	150			10.3	B, D	PCB-62	ND	50.0	19.8		1.46	D
PCB-22	284	50.0			3.17	D	PCB-63	43.8	50.0			0.696	J, D
PCB-23	ND	50.0	13.7		1.35	D	PCB-65	ND	50.0	20.4		0.953	D
PCB-24/27	57.8	100			3.16	J, D	PCB-66/76	1310	100			2.82	D
PCB-25	80.2	50.0			3.34	D	PCB-67	31.8	50.0			1.22	J, D
PCB-26	137	50.0			2.19	D	PCB-68	ND	50.0		11.2	1.24	D
PCB-28	990	50.0			2.90	B, D	PCB-73	ND	50.0	19.9		1.56	D
PCB-29	ND	50.0	13.7		1.60	D	PCB-74	592	50.0			1.53	D
PCB-30	ND	50.0	12.4		2.09	D	PCB-77	205	50.0			1.34	D
PCB-31	653	50.0			4.29	B, D	PCB-78	ND	50.0	19.9		0.990	D
PCB-34	ND	50.0	12.8		2.34	D	PCB-79	65.8	50.0			1.60	D
PCB-35	ND	50.0		25.8	1.65	D	PCB-80	ND	50.0	16.1		1.98	D
PCB-36	ND	50.0	14.0		2.69	D	PCB-81	ND	50.0		16.8	2.34	D
PCB-37	445	50.0			1.92	D	PCB-82	846	50.0			1.69	D
PCB-38	ND	50.0	14.6		1.56	D	PCB-83	ND	50.0	21.5		1.32	D
PCB-39	ND	50.0	14.4		2.60	D	PCB-84/92	3040	100			3.38	D
PCB-40	206	50.0			3.08	D	PCB-85/116	899	100			2.83	D
PCB-41/64/71/72	971	200			5.57	D	PCB-86	ND	50.0	34.5		2.34	D
PCB-42/59	352	100			2.84	D	PCB-87/117/125	2040	150			3.79	D
PCB-43/49	826	100			3.38	D	PCB-88/91	950	50.0			3.25	D

RL - Reporting limit

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

MDL - Method detection limit

Sample ID: ST-FD-02-20150210-W

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1500166-02		Date Received:	12-Feb-2015 9:12		
Project:	1400647			Sample Size:	1.00 L		QC Batch:	B5B0085		Date Extracted:	20-Feb-2015 8:53		
Date Collected:	10-Feb-2015 14:08						Date Analyzed:	26-Feb-15 18:10		Column:	ZB-1 Analyst: DMS		

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	ND	50.0		53.9	1.84	D	PCB-136	1040	50.0			2.89	D
PCB-90/101	5680	100			1.92	D	PCB-137	480	50.0			2.08	D
PCB-93	ND	50.0	29.9		1.47	D	PCB-138/163/164	9350	150			2.68	D
PCB-94	ND	50.0	28.1		1.91	D	PCB-139/149	6910	100			7.87	D
PCB-95/98/102	5510	150			6.58	D	PCB-140	62.8	50.0			3.52	D
PCB-96	37.7	50.0			2.16	J, D	PCB-141	1650	50.0			1.15	D
PCB-97	1780	50.0			1.24	D	PCB-144	404	50.0			3.22	D
PCB-99	2100	50.0			1.94	D	PCB-145	ND	50.0	20.9		1.73	D
PCB-100	ND	50.0	24.5		2.03	D	PCB-146/165	1280	100			1.91	D
PCB-103	42.9	50.0			2.28	J, D	PCB-147	193	50.0			3.62	D
PCB-104	ND	50.0	18.7		0.931	D	PCB-148	ND	50.0	28.0		1.68	D
PCB-105	1600	50.0			2.21	D	PCB-150	ND	50.0	20.3		1.14	D
PCB-106/118	4690	100			2.44	D	PCB-151	1740	50.0			3.59	D
PCB-107/109	ND	100		295	1.98	D	PCB-152	ND	50.0	19.6		1.82	D
PCB-108/112	313	100			1.86	D	PCB-153	6620	50.0			1.83	D
PCB-110	8860	50.0			1.94	D	PCB-154	82.0	50.0			2.78	D
PCB-111/115	93.2	100			0.768	J, D	PCB-155	ND	50.0	19.1		1.45	D
PCB-113	13.2	50.0			1.31	J, D	PCB-156	789	50.0			1.74	D
PCB-114	80.6	50.0			1.81	D	PCB-157	232	50.0			1.17	D
PCB-119	101	50.0			0.949	D	PCB-158/160	1070	100			1.99	D
PCB-120	ND	50.0	17.9		1.01	D	PCB-159	ND	50.0	17.4		1.20	D
PCB-121	ND	50.0	18.0		1.94	D	PCB-166	ND	50.0		26.2	0.920	D
PCB-122	ND	50.0		59.6	1.84	D	PCB-167	411	50.0			1.65	D
PCB-123	98.1	50.0			1.35	D	PCB-168	ND	50.0	15.9		0.933	D
PCB-124	267	50.0			1.79	D	PCB-169	ND	50.0	21.8		1.12	D
PCB-126	43.3	50.0			2.05	J, D	PCB-170	2100	50.0			1.38	D
PCB-127	ND	50.0	32.0		0.808	D	PCB-171	644	50.0			1.61	D
PCB-128/162	1730	100			1.68	D	PCB-172	ND	50.0		367	1.46	D
PCB-129	533	50.0			1.11	D	PCB-173	ND	50.0		61.3	1.49	D
PCB-130	675	50.0			2.21	D	PCB-174	2560	50.0			1.42	D
PCB-131	ND	50.0	25.5		1.46	D	PCB-175	98.2	50.0			3.15	D
PCB-132/161	3220	100			2.34	D	PCB-176	270	50.0			2.17	D
PCB-133/142	304	100			2.19	D	PCB-177	1390	50.0			1.34	D
PCB-134/143	556	100			2.40	D	PCB-178	392	50.0			2.25	D
PCB-135	1170	50.0			2.90	D	PCB-179	865	50.0			1.57	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific estimated detection limit
MDL - Method detection limit

LCL-UCL- Lower control limit - upper control limit

Sample ID: ST-FD-02-20150210-W

EPA Method 1668C

Client Data				Sample Data			Laboratory Data					
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1500166-02	Date Received:	12-Feb-2015 9:12		
Project:	1400647			Sample Size:	1.00 L		QC Batch:	B5B0085	Date Extracted:	20-Feb-2015 8:53		
Date Collected:	10-Feb-2015 14:08						Date Analyzed :	26-Feb-15 18:10 Column: ZB-1 Analyst: DMS				

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	4830	50.0			0.610	D	Total octaCB	4730	50.0		4770		
PCB-181	ND	50.0	19.0		1.01	D	Total nonaCB	1050	50.0				
PCB-182/187	2300	100			6.20	D	DecaCB	292	50.0				B
PCB-183	1100	50.0			3.29	D	Total PCB	121000	50.0				B
PCB-184	ND	50.0	11.1		1.25	D							
PCB-185	279	50.0			1.47	D							
PCB-186	ND	50.0	10.2		2.43	D							
PCB-188	ND	50.0	9.82		1.08	D							
PCB-189	ND	50.0		95.1	1.49	D							
PCB-190	428	50.0			1.70	D							
PCB-191	107	50.0			1.96	D							
PCB-192	ND	50.0	14.7		1.69	D							
PCB-193	236	50.0			1.46	D							
PCB-194	947	50.0			1.71	D							
PCB-195	439	50.0			1.47	D							
PCB-196/203	1310	100			6.35	D							
PCB-197	44.4	50.0			1.80	J, D							
PCB-198	ND	50.0		33.2	3.78	D							
PCB-199	1320	50.0			4.05	D							
PCB-200	177	50.0			1.75	D							
PCB-201	168	50.0			1.02	D							
PCB-202	275	50.0			1.55	D							
PCB-204	ND	50.0	20.5		1.48	D							
PCB-205	47.2	50.0			1.53	J, D							
PCB-206	763	50.0			1.32	D							
PCB-207	74.8	50.0			1.51	D							
PCB-208	209	50.0			1.34	D							
PCB-209	292	50.0			1.86	B, D							
Total monoCB	169	50.0											
Total diCB	1030	50.0				B							
Total triCB	4100	50.0		4130		B							
Total tetraCB	12600	50.0											
Total pentaCB	39100	50.0		39500									
Total hexaCB	40500	50.0											
Total heptaCB	17600	50.0		18100									

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific estimated detection limit
MDL - Method detection limit

LCL-UCL- Lower control limit - upper control limit

Sample ID: ST-FD-02-20150210-W

EPA Method 1668C

Client Data		Sample Data		Laboratory Data	
Name:	Leidos	Matrix:	Aqueous	Lab Sample:	1500166-02
Project:	1400647	Sample Size:	1.00 L	Date Received:	12-Feb-2015 9:12
Date Collected:	10-Feb-2015 14:08			QC Batch:	B5B0085
				Date Analyzed :	26-Feb-15 18:10
				Column:	ZB-1
				Analyst:	DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	79.1	5 -145	D	13C-PCB-170	68.5	10 -145	D
13C-PCB-3	87.3	5 -145	D	13C-PCB-180	71.1	10 -145	D
13C-PCB-4	73.6	5 -145	D	13C-PCB-188	79.7	10 -145	D
13C-PCB-11	80.6	5 -145	D	13C-PCB-189	63.6	10 -145	D
13C-PCB-9	76.1	5 -145	D	13C-PCB-194	73.4	10 -145	D
13C-PCB-19	82.4	5 -145	D	13C-PCB-202	70.8	10 -145	D
13C-PCB-28	69.7	5 -145	D	13C-PCB-206	70.5	10 -145	D
13C-PCB-32	81.4	5 -145	D	13C-PCB-208	80.0	10 -145	D
13C-PCB-37	77.7	5 -145	D	13C-PCB-209	68.6	10 -145	D
13C-PCB-47	75.2	5 -145	D	CRS 13C-PCB-79	90.0	10 -145	D
13C-PCB-52	81.4	5 -145	D	13C-PCB-178	102	10 -145	D
13C-PCB-54	75.0	5 -145	D				
13C-PCB-70	75.0	5 -145	D				
13C-PCB-77	74.3	10 -145	D				
13C-PCB-80	81.0	10 -145	D				
13C-PCB-81	71.9	10 -145	D				
13C-PCB-95	82.8	10 -145	D				
13C-PCB-97	78.3	10 -145	D				
13C-PCB-101	77.3	10 -145	D				
13C-PCB-104	74.3	10 -145	D				
13C-PCB-105	93.3	10 -145	D				
13C-PCB-114	91.2	10 -145	D				
13C-PCB-118	76.3	10 -145	D				
13C-PCB-123	80.6	10 -145	D				
13C-PCB-126	88.5	10 -145	D				
13C-PCB-127	88.6	10 -145	D				
13C-PCB-138	81.6	10 -145	D				
13C-PCB-141	88.3	10 -145	D				
13C-PCB-153	80.6	10 -145	D				
13C-PCB-155	71.5	10 -145	D				
13C-PCB-156	76.8	10 -145	D				
13C-PCB-157	76.5	10 -145	D				
13C-PCB-159	79.7	10 -145	D				
13C-PCB-167	77.5	10 -145	D				
13C-PCB-169	69.9	10 -145	D				

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific estimated detection limit
MDL - Method detection limit

LCL-UCL - Lower control limit - upper control limit

Sample ID: ST-OF-01-20150210-W

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1500166-03		Date Received:	12-Feb-2015 9:12		
Project:	1400647			Sample Size:	1.01 L		QC Batch:	B5B0085		Date Extracted:	20-Feb-2015 8:53		
Date Collected:	10-Feb-2015 13:34						Date Analyzed:	27-Feb-15 14:44		Column:	ZB-1 Analyst: DMS		

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	35.2	98.9			1.21	J, D	PCB-44	904	98.9			2.48	D
PCB-2	ND	98.9	21.3		1.75	D	PCB-45	104	98.9			1.96	D
PCB-3	42.0	98.9			1.49	J, D	PCB-46	60.3	98.9			2.49	J, D
PCB-4/10	ND	198	134		5.64	D	PCB-47	188	98.9			4.42	D
PCB-5/8	187	198			3.59	J, D	PCB-48/75	ND	198		80.9	2.09	D
PCB-6	ND	98.9	108		3.10	D	PCB-50	ND	98.9	47.8		1.40	D
PCB-7/9	ND	198	106		6.22	D	PCB-51	37.0	98.9			1.42	J, D
PCB-11	140	98.9			3.86	B, D	PCB-52/69	1490	198			3.64	D
PCB-12/13	ND	198	113		5.01	D	PCB-53	ND	98.9		135	1.12	D
PCB-14	ND	98.9	97.0		3.98	D	PCB-54	ND	98.9	36.3		1.51	D
PCB-15	257	98.9			2.53	D	PCB-55	30.2	98.9			1.19	J, D
PCB-16/32	240	198			2.87	B, D	PCB-56/60	485	198			2.19	D
PCB-17	ND	98.9		86.4	1.37	D	PCB-57	ND	98.9	33.5		0.857	D
PCB-18	ND	98.9		268	2.57	D	PCB-58	ND	98.9	33.0		1.81	D
PCB-19	ND	98.9	29.6		2.38	D	PCB-61/70	1460	198			2.40	D
PCB-20/21/33	315	297			10.3	B, D	PCB-62	ND	98.9	39.8		1.46	D
PCB-22	232	98.9			3.17	D	PCB-63	ND	98.9	32.2		0.696	D
PCB-23	ND	98.9	33.4		1.35	D	PCB-65	ND	98.9	41.0		0.953	D
PCB-24/27	40.0	198			3.16	J, D	PCB-66/76	829	198			2.82	D
PCB-25	45.6	98.9			3.34	J, D	PCB-67	ND	98.9	34.3		1.22	D
PCB-26	89.3	98.9			2.19	J, D	PCB-68	ND	98.9	33.5		1.24	D
PCB-28	625	98.9			2.90	B, D	PCB-73	ND	98.9	35.3		1.56	D
PCB-29	ND	98.9	33.4		1.60	D	PCB-74	439	98.9			1.53	D
PCB-30	ND	98.9	18.7		2.09	D	PCB-77	105	98.9			1.34	D
PCB-31	490	98.9			4.29	B, D	PCB-78	ND	98.9	29.6		0.990	D
PCB-34	ND	98.9	31.1		2.34	D	PCB-79	39.9	98.9			1.60	J, D
PCB-35	ND	98.9	33.2		1.65	D	PCB-80	ND	98.9	23.9		1.98	D
PCB-36	ND	98.9	32.1		2.69	D	PCB-81	ND	98.9		7.80	2.34	D
PCB-37	258	98.9			1.92	D	PCB-82	494	98.9			1.69	D
PCB-38	ND	98.9	33.6		1.56	D	PCB-83	ND	98.9	40.9		1.32	D
PCB-39	ND	98.9	33.1		2.60	D	PCB-84/92	1850	198			3.38	D
PCB-40	ND	98.9		135	3.08	D	PCB-85/116	579	198			2.83	D
PCB-41/64/71/72	676	396			5.57	D	PCB-86	ND	98.9	65.8		2.34	D
PCB-42/59	223	198			2.84	D	PCB-87/117/125	1450	297			3.79	D
PCB-43/49	578	198			3.38	D	PCB-88/91	559	98.9			3.25	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific estimated detection limit
MDL - Method detection limit

LCL-UCL- Lower control limit - upper control limit

Sample ID: ST-OF-01-20150210-W

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1500166-03		Date Received:	12-Feb-2015 9:12		
Project:	1400647			Sample Size:	1.01 L		QC Batch:	B5B0085		Date Extracted:	20-Feb-2015 8:53		
Date Collected:	10-Feb-2015 13:34						Date Analyzed:	27-Feb-15 14:44		Column:	ZB-1 Analyst: DMS		

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	ND	98.9	55.5		1.84	D	PCB-136	771	98.9			2.89	D
PCB-90/101	3950	198			1.92	D	PCB-137	220	98.9			2.08	D
PCB-93	ND	98.9	63.8		1.47	D	PCB-138/163/164	5960	297			2.68	D
PCB-94	ND	98.9	59.9		1.91	D	PCB-139/149	4990	198			7.87	D
PCB-95/98/102	3430	297			6.58	D	PCB-140	ND	98.9	55.1		3.52	D
PCB-96	ND	98.9		34.2	2.16	D	PCB-141	1090	98.9			1.15	D
PCB-97	1190	98.9			1.24	D	PCB-144	349	98.9			3.22	D
PCB-99	1470	98.9			1.94	D	PCB-145	ND	98.9	39.2		1.73	D
PCB-100	ND	98.9	63.0		2.03	D	PCB-146/165	805	198			1.91	D
PCB-103	ND	98.9	62.7		2.28	D	PCB-147	111	98.9			3.62	D
PCB-104	ND	98.9	48.1		0.931	D	PCB-148	ND	98.9	52.4		1.68	D
PCB-105	1250	98.9			2.21	D	PCB-150	ND	98.9	38.0		1.14	D
PCB-106/118	3380	198			2.44	D	PCB-151	1370	98.9			3.59	D
PCB-107/109	187	198			1.98	J, D	PCB-152	ND	98.9	36.7		1.82	D
PCB-108/112	206	198			1.86	D	PCB-153	3980	98.9			1.83	D
PCB-110	5750	98.9			1.94	D	PCB-154	ND	98.9		41.8	2.78	D
PCB-111/115	58.4	198			0.768	J, D	PCB-155	ND	98.9	35.7		1.45	D
PCB-113	ND	98.9	41.3		1.31	D	PCB-156	484	98.9			1.74	D
PCB-114	ND	98.9		47.0	1.81	D	PCB-157	133	98.9			1.17	D
PCB-119	65.0	98.9			0.949	J, D	PCB-158/160	717	198			1.99	D
PCB-120	ND	98.9		11.0	1.01	D	PCB-159	ND	98.9	37.4		1.20	D
PCB-121	ND	98.9	38.5		1.94	D	PCB-166	ND	98.9	40.0		0.920	D
PCB-122	ND	98.9		38.0	1.84	D	PCB-167	229	98.9			1.65	D
PCB-123	47.7	98.9			1.35	J, D	PCB-168	ND	98.9	34.5		0.933	D
PCB-124	181	98.9			1.79	D	PCB-169	ND	98.9	38.0		1.12	D
PCB-126	ND	98.9		30.7	2.05	D	PCB-170	1600	98.9			1.38	D
PCB-127	ND	98.9	55.0		0.808	D	PCB-171	455	98.9			1.61	D
PCB-128/162	1050	198			1.68	D	PCB-172	311	98.9			1.46	D
PCB-129	324	98.9			1.11	D	PCB-173	ND	98.9		48.8	1.49	D
PCB-130	423	98.9			2.21	D	PCB-174	1810	98.9			1.42	D
PCB-131	3.60	98.9			1.46	J, D	PCB-175	83.9	98.9			3.15	J, D
PCB-132/161	1960	198			2.34	D	PCB-176	263	98.9			2.17	D
PCB-133/142	151	198			2.19	J, D	PCB-177	1010	98.9			1.34	D
PCB-134/143	318	198			2.40	D	PCB-178	396	98.9			2.25	D
PCB-135	831	98.9			2.90	D	PCB-179	814	98.9			1.57	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific estimated detection limit
MDL - Method detection limit

LCL-UCL- Lower control limit - upper control limit

Sample ID: ST-OF-01-20150210-W

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Aqueous		Lab Sample:	1500166-03		Date Received:	12-Feb-2015 9:12		
Project:	1400647			Sample Size:	1.01 L		QC Batch:	B5B0085		Date Extracted:	20-Feb-2015 8:53		
Date Collected:	10-Feb-2015 13:34						Date Analyzed :	27-Feb-15 14:44		Column:	ZB-1 Analyst: DMS		

Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/L)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	3680	98.9			0.610	D	Total octaCB	2520	98.9		3640		
PCB-181	ND	98.9	27.4		1.01	D	Total nonaCB	754	98.9				
PCB-182/187	2380	198			6.20	D	DecaCB	228	98.9				B
PCB-183	1040	98.9			3.29	D	Total PCB	81200	98.9				B
PCB-184	ND	98.9	29.6		1.25	D							
PCB-185	194	98.9			1.47	D							
PCB-186	ND	98.9	27.2		2.43	D							
PCB-188	ND	98.9	26.0		1.08	D							
PCB-189	75.6	98.9			1.49	J, D							
PCB-190	313	98.9			1.70	D							
PCB-191	82.3	98.9			1.96	J, D							
PCB-192	ND	98.9	21.3		1.69	D							
PCB-193	186	98.9			1.46	D							
PCB-194	613	98.9			1.71	D							
PCB-195	311	98.9			1.47	D							
PCB-196/203	1140	198			6.35	D							
PCB-197	ND	98.9		24.9	1.80	D							
PCB-198	58.0	98.9			3.78	J, D							
PCB-199	ND	98.9		971	4.05	D							
PCB-200	140	98.9			1.75	D							
PCB-201	ND	98.9		132	1.02	D							
PCB-202	211	98.9			1.55	D							
PCB-204	ND	98.9	37.0		1.48	D							
PCB-205	39.9	98.9			1.53	J, D							
PCB-206	546	98.9			1.32	D							
PCB-207	56.7	98.9			1.51	J, D							
PCB-208	151	98.9			1.34	D							
PCB-209	228	98.9			1.86	B, D							
Total monoCB	77.2	98.9				J							
Total diCB	584	98.9				B							
Total triCB	2330	98.9		2690		B							
Total tetraCB	7650	98.9		8010									
Total pentaCB	26100	98.9		26300		B							
Total hexaCB	26300	98.9											
Total heptaCB	14700	98.9											

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific estimated detection limit
MDL - Method detection limit

LCL-UCL- Lower control limit - upper control limit

Sample ID: ST-OF-01-20150210-W

EPA Method 1668C

Client Data		Sample Data		Laboratory Data	
Name:	Leidos	Matrix:	Aqueous	Lab Sample:	1500166-03
Project:	1400647	Sample Size:	1.01 L	Date Received:	12-Feb-2015 9:12
Date Collected:	10-Feb-2015 13:34			QC Batch:	B5B0085
				Date Analyzed:	27-Feb-15 14:44
				Column:	ZB-1
				Analyst:	DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	105	5 -145	D	13C-PCB-170	85.5	10 -145	D
13C-PCB-3	102	5 -145	D	13C-PCB-180	85.3	10 -145	D
13C-PCB-4	76.9	5 -145	D	13C-PCB-188	67.7	10 -145	D
13C-PCB-11	89.4	5 -145	D	13C-PCB-189	83.9	10 -145	D
13C-PCB-9	83.8	5 -145	D	13C-PCB-194	77.1	10 -145	D
13C-PCB-19	99.7	5 -145	D	13C-PCB-202	78.4	10 -145	D
13C-PCB-28	65.3	5 -145	D	13C-PCB-206	85.5	10 -145	D
13C-PCB-32	94.3	5 -145	D	13C-PCB-208	78.5	10 -145	D
13C-PCB-37	78.5	5 -145	D	13C-PCB-209	94.7	10 -145	D
13C-PCB-47	81.2	5 -145	D	CRS 13C-PCB-79	101	10 -145	D
13C-PCB-52	80.1	5 -145	D	13C-PCB-178	100	10 -145	D
13C-PCB-54	71.2	5 -145	D				
13C-PCB-70	80.0	5 -145	D				
13C-PCB-77	81.8	10 -145	D				
13C-PCB-80	84.9	10 -145	D				
13C-PCB-81	83.2	10 -145	D				
13C-PCB-95	87.3	10 -145	D				
13C-PCB-97	89.4	10 -145	D				
13C-PCB-101	84.5	10 -145	D				
13C-PCB-104	73.3	10 -145	D				
13C-PCB-105	74.9	10 -145	D				
13C-PCB-114	76.6	10 -145	D				
13C-PCB-118	88.1	10 -145	D				
13C-PCB-123	99.3	10 -145	D				
13C-PCB-126	80.0	10 -145	D				
13C-PCB-127	72.6	10 -145	D				
13C-PCB-138	76.9	10 -145	D				
13C-PCB-141	80.1	10 -145	D				
13C-PCB-153	78.2	10 -145	D				
13C-PCB-155	88.8	10 -145	D				
13C-PCB-156	81.6	10 -145	D				
13C-PCB-157	79.9	10 -145	D				
13C-PCB-159	79.1	10 -145	D				
13C-PCB-167	77.7	10 -145	D				
13C-PCB-169	79.2	10 -145	D				

RL - Reporting limit
 EMPC - Estimated maximum possible concentration

DL - Sample specific estimated detection limit
 MDL - Method detection limit

LCL-UCL - Lower control limit - upper control limit

Sample ID: Method Blank

EPA Method 1668C

Matrix: Solid	QC Batch: B5B0069	Lab Sample: B5B0069-BLK1
Sample Size: 2.00 g	Date Extracted: 17-Feb-2015 14:17	Date Analyzed: 19-Feb-15 19:28 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	ND	12.5	5.04		0.320		PCB-43/49	ND	25.0	3.86		0.879	
PCB-2	ND	12.5	4.50		0.240		PCB-44	ND	12.5	4.17		0.745	
PCB-3	ND	12.5	3.74		0.323		PCB-45	ND	12.5	4.45		0.402	
PCB-4/10	ND	25.0	21.9		1.14		PCB-46	ND	12.5	4.54		0.537	
PCB-5/8	ND	25.0	20.2		1.76		PCB-47	ND	12.5	3.39		2.19	
PCB-6	ND	12.5	17.8		1.00		PCB-48/75	ND	25.0	2.92		0.983	
PCB-7/9	ND	25.0	19.2		1.34		PCB-50	ND	12.5	3.82		0.603	
PCB-11	ND	12.5	19.7		3.48		PCB-51	ND	12.5	3.88		0.789	
PCB-12/13	ND	25.0	17.9		1.37		PCB-52/69	ND	25.0	3.00		0.722	
PCB-14	ND	12.5	19.3		0.337		PCB-53	ND	12.5	3.61		0.331	
PCB-15	ND	12.5	16.7		0.634		PCB-54	ND	12.5	3.05		0.275	
PCB-16/32	ND	25.0	3.30		0.430		PCB-55	ND	12.5	2.56		0.416	
PCB-17	ND	12.5	3.37		0.658		PCB-56/60	ND	25.0	2.64		0.825	
PCB-18	ND	12.5	3.97		0.696		PCB-57	ND	12.5	2.94		0.354	
PCB-19	ND	12.5	4.21		0.612		PCB-58	ND	12.5	3.11		0.589	
PCB-20/21/33	ND	37.5	2.95		2.47		PCB-61/70	ND	25.0	3.02		1.20	
PCB-22	ND	12.5	2.64		0.964		PCB-62	ND	12.5	2.94		0.597	
PCB-23	ND	12.5	2.49		0.543		PCB-63	ND	12.5	3.03		0.524	
PCB-24/27	ND	25.0	2.61		0.742		PCB-65	ND	12.5	2.93		0.842	
PCB-25	ND	12.5	2.53		0.768		PCB-66/76	ND	25.0	2.76		1.31	
PCB-26	ND	12.5	2.64		0.766		PCB-67	ND	12.5	2.60		0.486	
PCB-28	ND	12.5	1.86		1.12		PCB-68	ND	12.5	2.66		0.658	
PCB-29	ND	12.5	2.95		0.949		PCB-73	ND	12.5	2.84		0.454	
PCB-30	ND	12.5	2.56		0.355		PCB-74	ND	12.5	2.32		0.781	
PCB-31	ND	12.5	2.48		0.809		PCB-77	ND	12.5	2.61		0.748	
PCB-34	ND	12.5	2.81		1.57		PCB-78	ND	12.5	2.35		0.385	
PCB-35	ND	12.5	2.76		0.565		PCB-79	ND	12.5	2.47		0.633	
PCB-36	ND	12.5	2.98		0.406		PCB-80	ND	12.5	2.24		0.336	
PCB-37	ND	12.5	2.76		0.389		PCB-81	ND	12.5	2.24		0.674	
PCB-38	ND	12.5	2.83		0.528		PCB-82	ND	12.5	8.47		0.981	
PCB-39	ND	12.5	3.05		0.461		PCB-83	ND	12.5	5.56		0.440	
PCB-40	ND	12.5	5.12		0.927		PCB-84/92	ND	25.0	7.35		1.01	
PCB-41/64/71/72	ND	50.0	2.97		1.70		PCB-85/116	ND	25.0	6.49		1.64	
PCB-42/59	ND	25.0	3.16		0.899		PCB-86	ND	12.5	10.0		1.79	

RL - Reporting limit

DL - Sample specific 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: Method Blank

EPA Method 1668C

Matrix: Solid	QC Batch: B5B0069	Lab Sample: B5B0069-BLK1
Sample Size: 2.00 g	Date Extracted: 17-Feb-2015 14:17	Date Analyzed: 19-Feb-15 19:28 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-87/117/125	ND	37.5	5.45		0.880		PCB-133/142	ND	25.0	5.00		1.04	
PCB-88/91	ND	25.0	7.65		1.25		PCB-134/143	ND	25.0	4.46		1.05	
PCB-89	ND	12.5	6.80		1.22		PCB-135	ND	12.5	7.37		1.47	
PCB-90/101	ND	25.0	6.98		1.19		PCB-136	ND	12.5	4.96		0.776	
PCB-93	ND	12.5	10.1		2.53		PCB-137	ND	12.5	4.07		0.541	
PCB-94	ND	12.5	8.08		0.874		PCB-138/163/164	ND	37.5	3.41		0.809	
PCB-95/98/102	ND	37.5	6.97		1.38		PCB-139/149	ND	25.0	7.67		1.49	
PCB-96	ND	12.5	5.96		0.588		PCB-140	ND	12.5	8.09		1.20	
PCB-97	ND	12.5	7.14		0.675		PCB-141	ND	12.5	3.98		0.678	
PCB-99	ND	12.5	5.75		0.474		PCB-144	ND	12.5	7.67		1.38	
PCB-100	ND	12.5	7.24		0.511		PCB-145	ND	12.5	4.87		1.05	
PCB-103	ND	12.5	7.09		0.428		PCB-146/165	ND	25.0	3.28		0.792	
PCB-104	ND	12.5	5.74		0.876		PCB-147	ND	12.5	7.13		5.26	
PCB-105	ND	12.5	3.71		0.462		PCB-148	ND	12.5	7.85		1.45	
PCB-106/118	ND	25.0	5.36		0.728		PCB-150	ND	12.5	5.85		0.801	
PCB-107/109	ND	25.0	4.86		0.631		PCB-151	ND	12.5	7.83		1.16	
PCB-108/112	ND	25.0	6.60		0.844		PCB-152	ND	12.5	5.24		0.744	
PCB-110	ND	12.5	5.43		0.555		PCB-153	ND	12.5	3.28		0.484	
PCB-111/115	ND	25.0	5.17		1.24		PCB-154	ND	12.5	6.81		0.837	
PCB-113	ND	12.5	5.45		0.495		PCB-155	ND	12.5	5.26		0.767	
PCB-114	ND	12.5	3.74		0.418		PCB-156	ND	12.5	3.20		0.534	
PCB-119	ND	12.5	5.51		0.383		PCB-157	ND	12.5	2.97		0.485	
PCB-120	ND	12.5	5.04		0.622		PCB-158/160	ND	25.0	3.28		0.915	
PCB-121	ND	12.5	5.29		0.978		PCB-159	ND	12.5	3.37		0.578	
PCB-122	ND	12.5	4.33		0.619		PCB-166	ND	12.5	3.16		0.425	
PCB-123	ND	12.5	5.50		0.494		PCB-167	ND	12.5	2.90		0.653	
PCB-124	ND	12.5	4.37		0.813		PCB-168	ND	12.5	2.82		0.502	
PCB-126	ND	12.5	4.19		0.543		PCB-169	ND	12.5	2.79		0.767	
PCB-127	ND	12.5	3.32		0.326		PCB-170	ND	12.5	3.04		0.758	
PCB-128/162	ND	25.0	3.58		1.08		PCB-171	ND	12.5	2.95		0.372	
PCB-129	ND	12.5	5.16		0.567		PCB-172	ND	12.5	2.85		0.857	
PCB-130	ND	12.5	4.48		0.798		PCB-173	ND	12.5	4.20		0.507	
PCB-131	ND	12.5	4.51		0.731		PCB-174	ND	12.5	3.38		0.797	
PCB-132/161	ND	25.0	3.70		1.05		PCB-175	ND	12.5	3.50		0.679	

RL - Reporting limit

DL - Sample specific 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: Method Blank

EPA Method 1668C

Matrix: Solid	QC Batch: B5B0069	Lab Sample: B5B0069-BLK1
Sample Size: 2.00 g	Date Extracted: 17-Feb-2015 14:17	Date Analyzed: 19-Feb-15 19:28 Column: ZB-1 Analyst: DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-176	ND	12.5	2.40		0.729		Total triCB	ND	12.5	4.21			
PCB-177	ND	12.5	3.71		0.404		Total tetraCB	ND	12.5	5.12			
PCB-178	ND	12.5	3.43		0.610		Total pentaCB	ND	12.5	10.1			
PCB-179	ND	12.5	2.72		0.418		Total hexaCB	ND	12.5	8.09			
PCB-180	ND	12.5	3.47		0.420		Total heptaCB	ND	12.5	4.20			
PCB-181	ND	12.5	3.38		1.26		Total octaCB	ND	12.5	7.47			
PCB-182/187	ND	25.0	2.83		1.33		Total nonaCB	ND	12.5	3.09			
PCB-183	ND	12.5	2.93		0.638		DecaCB	5.85	12.5				J
PCB-184	ND	12.5	2.17		0.597		Total PCB	5.85	12.5				J
PCB-185	ND	12.5	2.59		0.557								
PCB-186	ND	12.5	2.44		0.421								
PCB-188	ND	12.5	2.24		0.759								
PCB-189	ND	12.5	2.33		0.483								
PCB-190	ND	12.5	2.20		0.686								
PCB-191	ND	12.5	2.75		0.447								
PCB-192	ND	12.5	2.68		0.528								
PCB-193	ND	12.5	2.72		0.836								
PCB-194	ND	12.5	2.63		0.645								
PCB-195	ND	12.5	2.60		0.722								
PCB-196/203	ND	25.0	7.04		0.983								
PCB-197	ND	12.5	5.25		0.794								
PCB-198	ND	12.5	7.47		0.792								
PCB-199	ND	12.5	7.08		0.615								
PCB-200	ND	12.5	5.31		0.795								
PCB-201	ND	12.5	4.91		0.317								
PCB-202	ND	12.5	5.21		0.759								
PCB-204	ND	12.5	4.96		0.543								
PCB-205	ND	12.5	2.07		0.471								
PCB-206	ND	12.5	3.09		0.852								
PCB-207	ND	12.5	1.65		0.402								
PCB-208	ND	12.5	1.93		0.441								
PCB-209	5.85	12.5			1.10	J							
Total monoCB	ND	12.5	5.04										
Total diCB	ND	12.5	21.9										

RL - Reporting limit

DL - Sample specific 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: Method Blank

EPA Method 1668C

Matrix: Solid	QC Batch: B5B0069	Lab Sample: B5B0069-BLK1
Sample Size: 2.00 g	Date Extracted: 17-Feb-2015 14:17	Date Analyzed: 19-Feb-15 19:28 Column: ZB-1 Analyst: DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	56.2	5 - 145		13C-PCB-157	86.1	10 - 145	
13C-PCB-3	64.3	5 - 145		13C-PCB-159	84.7	10 - 145	
13C-PCB-4	65.3	5 - 145		13C-PCB-167	85.7	10 - 145	
13C-PCB-11	71.8	5 - 145		13C-PCB-169	88.9	10 - 145	
13C-PCB-9	65.6	5 - 145		13C-PCB-170	78.0	10 - 145	
13C-PCB-19	67.3	5 - 145		13C-PCB-180	74.8	10 - 145	
13C-PCB-28	68.4	5 - 145		13C-PCB-188	73.6	10 - 145	
13C-PCB-32	69.3	5 - 145		13C-PCB-189	77.3	10 - 145	
13C-PCB-37	85.1	5 - 145		13C-PCB-194	86.4	10 - 145	
13C-PCB-47	71.9	5 - 145		13C-PCB-202	66.5	10 - 145	
13C-PCB-52	72.1	5 - 145		13C-PCB-206	94.8	10 - 145	
13C-PCB-54	64.2	5 - 145		13C-PCB-208	85.9	10 - 145	
13C-PCB-70	79.1	5 - 145		13C-PCB-209	99.0	10 - 145	
13C-PCB-77	86.2	10 - 145		CRS 13C-PCB-79	86.9	10 - 145	
13C-PCB-80	81.5	10 - 145		13C-PCB-178	76.8	10 - 145	
13C-PCB-81	84.5	10 - 145					
13C-PCB-95	79.2	10 - 145					
13C-PCB-97	85.2	10 - 145					
13C-PCB-101	83.7	10 - 145					
13C-PCB-104	74.1	10 - 145					
13C-PCB-105	86.9	10 - 145					
13C-PCB-114	85.4	10 - 145					
13C-PCB-118	87.1	10 - 145					
13C-PCB-123	88.9	10 - 145					
13C-PCB-126	87.5	10 - 145					
13C-PCB-127	85.9	10 - 145					
13C-PCB-138	84.2	10 - 145					
13C-PCB-141	84.1	10 - 145					
13C-PCB-153	84.1	10 - 145					
13C-PCB-155	64.4	10 - 145					
13C-PCB-156	85.0	10 - 145					

RL - Reporting limit

DL - Sample specific 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: OPR**EPA Method 1668C**Matrix: Solid
Sample Size: 2.00 gQC Batch: B5B0069
Date Extracted: 17-Feb-2015 14:17Lab Sample: B5B0069-BS1
Date Analyzed: 19-Feb-15 16:15 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-1	5010	5000	100	60 - 135	IS 13C-PCB-1	37.1	15 - 145
PCB-3	4960	5000	99.2	60 - 135	IS 13C-PCB-3	46.0	15 - 145
PCB-4/10	18300	20000	91.7	60 - 135	IS 13C-PCB-4	49.5	15 - 145
PCB-15	9670	10000	96.7	60 - 135	IS 13C-PCB-9	51.7	15 - 145
PCB-19	5560	5000	111	60 - 135	IS 13C-PCB-11	66.5	15 - 145
PCB-37	5200	5000	104	60 - 135	IS 13C-PCB-19	57.1	15 - 145
PCB-54	5460	5000	109	60 - 135	IS 13C-PCB-28	70.4	15 - 145
PCB-77	5600	5000	112	60 - 135	IS 13C-PCB-32	64.6	15 - 145
PCB-81	5440	5000	109	60 - 135	IS 13C-PCB-37	89.2	15 - 145
PCB-104	5550	5000	111	60 - 135	IS 13C-PCB-47	73.8	15 - 145
PCB-105	4960	5000	99.2	60 - 135	IS 13C-PCB-52	72.6	15 - 145
PCB-106/118	11000	10000	110	60 - 135	IS 13C-PCB-54	59.6	15 - 145
PCB-114	4990	5000	99.8	60 - 135	IS 13C-PCB-70	81.1	15 - 145
PCB-123	5480	5000	110	60 - 135	IS 13C-PCB-77	90.1	40 - 145
PCB-126	5170	5000	103	60 - 135	IS 13C-PCB-80	82.5	40 - 145
PCB-155	5400	5000	108	60 - 135	IS 13C-PCB-81	88.0	40 - 145
PCB-156	5440	5000	109	60 - 135	IS 13C-PCB-95	79.3	40 - 145
PCB-157	5230	5000	105	60 - 135	IS 13C-PCB-97	87.9	40 - 145
PCB-167	5500	5000	110	60 - 135	IS 13C-PCB-101	83.4	40 - 145
PCB-169	5280	5000	106	60 - 135	IS 13C-PCB-104	72.7	40 - 145
PCB-188	5450	5000	109	60 - 135	IS 13C-PCB-105	89.9	40 - 145
PCB-189	5430	5000	109	60 - 135	IS 13C-PCB-114	89.6	40 - 145
PCB-202	5160	5000	103	60 - 135	IS 13C-PCB-118	89.3	40 - 145
PCB-205	4980	5000	99.6	60 - 135	IS 13C-PCB-123	91.6	40 - 145
PCB-206	5350	5000	107	60 - 135	IS 13C-PCB-126	91.6	40 - 145
PCB-208	5260	5000	105	60 - 135	IS 13C-PCB-127	90.0	40 - 145
PCB-209	5360	5000	107	60 - 135	IS 13C-PCB-138	88.0	40 - 145
					IS 13C-PCB-141	87.4	40 - 145
					IS 13C-PCB-153	86.8	40 - 145
					IS 13C-PCB-155	63.9	40 - 145
					IS 13C-PCB-156	89.0	40 - 145
					IS 13C-PCB-157	88.4	40 - 145
					IS 13C-PCB-159	89.5	40 - 145
					IS 13C-PCB-167	86.7	40 - 145
					IS 13C-PCB-169	90.7	40 - 145
					IS 13C-PCB-170	80.5	40 - 145
					IS 13C-PCB-180	77.6	40 - 145
					IS 13C-PCB-188	75.5	40 - 145
					IS 13C-PCB-189	81.9	40 - 145
					IS 13C-PCB-194	85.9	40 - 145

Sample ID: OPR

EPA Method 1668C

Matrix: Solid
Sample Size: 2.00 g

QC Batch: B5B0069
Date Extracted: 17-Feb-2015 14:17

Lab Sample: B5B0069-BS1
Date Analyzed: 19-Feb-15 16:15 Column: ZB-1 Analyst: DMS

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
					IS 13C-PCB-202	68.3	40 - 145
					IS 13C-PCB-206	95.6	40 - 145
					IS 13C-PCB-208	85.4	40 - 145
					IS 13C-PCB-209	97.7	40 - 145
					CRS 13C-PCB-79	89.0	40 - 145
					CRS 13C-PCB-178	79.8	40 - 145

LCL-UCL - Lower control limit - upper control limit

Sample ID: ST-CB-08-20150210-S

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1500166-04		Date Received:	12-Feb-2015 9:12		
Project:	1400647			Sample Size:	4.34 g		QC Batch:	B5B0069		Date Extracted:	17-Feb-2015 14:17		
Date Collected:	10-Feb-2015 15:38			% Solids:	48.6		Date Analyzed :	19-Feb-15 23:44		Column:	ZB-1 Analyst: DMS		

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	155	119			0.320	D	PCB-44	3430	119			0.745	D
PCB-2	ND	119		31.4	0.240	D	PCB-45	401	119			0.402	D
PCB-3	100	119			0.323	J, D	PCB-46	182	119			0.537	D
PCB-4/10	152	237			1.14	J, D	PCB-47	462	119			2.19	D
PCB-5/8	530	237			1.76	D	PCB-48/75	284	237			0.983	D
PCB-6	111	119			1.00	J, D	PCB-50	ND	119	51.6		0.603	D
PCB-7/9	ND	237	109		1.34	D	PCB-51	108	119			0.789	J, D
PCB-11	204	119			3.48	D	PCB-52/69	5990	237			0.722	D
PCB-12/13	ND	237	114		1.37	D	PCB-53	428	119			0.331	D
PCB-14	ND	119	123		0.337	D	PCB-54	ND	119	41.2		0.275	D
PCB-15	595	119			0.634	D	PCB-55	122	119			0.416	D
PCB-16/32	776	237			0.430	D	PCB-56/60	1400	237			0.825	D
PCB-17	395	119			0.658	D	PCB-57	ND	119	46.9		0.354	D
PCB-18	1090	119			0.696	D	PCB-58	ND	119	49.6		0.589	D
PCB-19	173	119			0.612	D	PCB-61/70	5650	237			1.20	D
PCB-20/21/33	677	356			2.47	D	PCB-62	ND	119	47.3		0.597	D
PCB-22	334	119			0.964	D	PCB-63	104	119			0.524	J, D
PCB-23	ND	119	39.7		0.543	D	PCB-65	ND	119	47.2		0.842	D
PCB-24/27	121	237			0.742	J, D	PCB-66/76	2470	237			1.31	D
PCB-25	84.0	119			0.768	J, D	PCB-67	75.7	119			0.486	J, D
PCB-26	202	119			0.766	D	PCB-68	ND	119	42.9		0.658	D
PCB-28	649	119			1.12	D	PCB-73	ND	119	43.1		0.454	D
PCB-29	ND	119	47.0		0.949	D	PCB-74	1270	119			0.781	D
PCB-30	ND	119	34.3		0.355	D	PCB-77	222	119			0.748	D
PCB-31	940	119			0.809	D	PCB-78	ND	119	42.4		0.385	D
PCB-34	ND	119	44.6		1.57	D	PCB-79	206	119			0.633	D
PCB-35	ND	119	43.7		0.565	D	PCB-80	ND	119	41.0		0.336	D
PCB-36	ND	119	47.1		0.406	D	PCB-81	ND	119		39.2	0.674	D
PCB-37	538	119			0.389	D	PCB-82	1820	119			0.981	D
PCB-38	ND	119	44.9		0.528	D	PCB-83	ND	119	72.2		0.440	D
PCB-39	ND	119	48.2		0.461	D	PCB-84/92	6510	237			1.01	D
PCB-40	440	119			0.927	D	PCB-85/116	2290	237			1.64	D
PCB-41/64/71/72	2070	474			1.70	D	PCB-86	ND	119	130		1.79	D
PCB-42/59	579	237			0.899	D	PCB-87/117/125	5440	356			0.880	D
PCB-43/49	2080	237			0.879	D	PCB-88/91	1940	237			1.25	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific 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: ST-CB-08-20150210-S

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1500166-04		Date Received:	12-Feb-2015 9:12		
Project:	1400647			Sample Size:	4.34 g		QC Batch:	B5B0069		Date Extracted:	17-Feb-2015 14:17		
Date Collected:	10-Feb-2015 15:38			% Solids:	48.6		Date Analyzed :	19-Feb-15 23:44		Column:	ZB-1 Analyst: DMS		

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	ND	119		83.5	1.22	D	PCB-136	2050	119			0.776	D
PCB-90/101	16300	237			1.19	D	PCB-137	997	119			0.541	D
PCB-93	ND	119	118		2.53	D	PCB-138/163/164	17900	356			0.809	D
PCB-94	ND	119	94.5		0.874	D	PCB-139/149	15500	237			1.49	D
PCB-95/98/102	12200	356			1.38	D	PCB-140	ND	119	139		1.20	D
PCB-96	94.6	119			0.588	J, D	PCB-141	3710	119			0.678	D
PCB-97	4400	119			0.675	D	PCB-144	976	119			1.38	D
PCB-99	5240	119			0.474	D	PCB-145	ND	119	83.5		1.05	D
PCB-100	ND	119	82.4		0.511	D	PCB-146/165	2180	237			0.792	D
PCB-103	81.1	119			0.428	J, D	PCB-147	258	119			5.26	D
PCB-104	ND	119	65.3		0.876	D	PCB-148	ND	119	135		1.45	D
PCB-105	4430	119			0.462	D	PCB-150	ND	119	100		0.801	D
PCB-106/118	12600	237			0.728	D	PCB-151	4140	119			1.16	D
PCB-107/109	766	237			0.631	D	PCB-152	ND	119	89.9		0.744	D
PCB-108/112	645	237			0.844	D	PCB-153	14400	119			0.484	D
PCB-110	17600	119			0.555	D	PCB-154	158	119			0.837	D
PCB-111/115	235	237			1.24	J, D	PCB-155	ND	119	90.1		0.767	D
PCB-113	ND	119	67.6		0.495	D	PCB-156	1710	119			0.534	D
PCB-114	268	119			0.418	D	PCB-157	362	119			0.485	D
PCB-119	243	119			0.383	D	PCB-158/160	2050	237			0.915	D
PCB-120	51.2	119			0.622	J, D	PCB-159	ND	119	80.5		0.578	D
PCB-121	ND	119	61.8		0.978	D	PCB-166	78.1	119			0.425	J, D
PCB-122	127	119			0.619	D	PCB-167	696	119			0.653	D
PCB-123	199	119			0.494	D	PCB-168	ND	119	64.0		0.502	D
PCB-124	579	119			0.813	D	PCB-169	ND	119	77.1		0.767	D
PCB-126	126	119			0.543	D	PCB-170	4430	119			0.758	D
PCB-127	ND	119	55.5		0.326	D	PCB-171	1180	119			0.372	D
PCB-128/162	2880	237			1.08	D	PCB-172	676	119			0.857	D
PCB-129	999	119			0.567	D	PCB-173	119	119			0.507	D
PCB-130	1170	119			0.798	D	PCB-174	5010	119			0.797	D
PCB-131	ND	119	102		0.731	D	PCB-175	232	119			0.679	D
PCB-132/161	5810	237			1.05	D	PCB-176	599	119			0.729	D
PCB-133/142	617	237			1.04	D	PCB-177	2920	119			0.404	D
PCB-134/143	1100	237			1.05	D	PCB-178	946	119			0.610	D
PCB-135	1980	119			1.47	D	PCB-179	2140	119			0.418	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific 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: ST-CB-08-20150210-S

EPA Method 1668C

Client Data			Sample Data			Laboratory Data					
Name:	Leidos		Matrix:	Sediment		Lab Sample:	1500166-04	Date Received:	12-Feb-2015 9:12		
Project:	1400647		Sample Size:	4.34 g		QC Batch:	B5B0069	Date Extracted:	17-Feb-2015 14:17		
Date Collected:	10-Feb-2015 15:38		% Solids:	48.6		Date Analyzed :	19-Feb-15 23:44	Column:	ZB-1	Analyst:	DMS

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	11700	119			0.420	D	Total octaCB	10200	119				
PCB-181	ND	119	55.7		1.26	D	Total nonaCB	1860	119				
PCB-182/187	5200	237			1.33	D	DecaCB	530	119				B
PCB-183	2560	119			0.638	D	Total PCB	264000	119				B
PCB-184	ND	119	33.8		0.597	D							
PCB-185	497	119			0.557	D							
PCB-186	ND	119	37.9		0.421	D							
PCB-188	ND	119	34.9		0.759	D							
PCB-189	ND	119		185	0.483	D							
PCB-190	834	119			0.686	D							
PCB-191	ND	119		180	0.447	D							
PCB-192	ND	119	44.1		0.528	D							
PCB-193	493	119			0.836	D							
PCB-194	2090	119			0.645	D							
PCB-195	826	119			0.722	D							
PCB-196/203	3120	237			0.983	D							
PCB-197	134	119			0.794	D							
PCB-198	ND	119	109		0.792	D							
PCB-199	2660	119			0.615	D							
PCB-200	328	119			0.795	D							
PCB-201	356	119			0.317	D							
PCB-202	621	119			0.759	D							
PCB-204	ND	119	72.6		0.543	D							
PCB-205	90.5	119			0.471	J, D							
PCB-206	1330	119			0.852	D							
PCB-207	153	119			0.402	D							
PCB-208	378	119			0.441	D							
PCB-209	530	119			1.10	B, D							
Total monoCB	255	119		286									
Total diCB	1590	119											
Total triCB	5980	119											
Total tetraCB	28000	119											
Total pentaCB	94100	119		94200									
Total hexaCB	81600	119											
Total heptaCB	39500	119		39900									

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific 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: ST-CB-08-20150210-S

EPA Method 1668C

Client Data		Sample Data		Laboratory Data	
Name:	Leidos	Matrix:	Sediment	Lab Sample:	1500166-04
Project:	1400647	Sample Size:	4.34 g	Date Received:	12-Feb-2015 9:12
Date Collected:	10-Feb-2015 15:38	% Solids:	48.6	QC Batch:	B5B0069
				Date Analyzed :	19-Feb-15 23:44
				Column:	ZB-1
				Analyst:	DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	54.0	5 -145	D	13C-PCB-170	79.2	10 -145	D
13C-PCB-3	53.7	5 -145	D	13C-PCB-180	77.1	10 -145	D
13C-PCB-4	86.7	5 -145	D	13C-PCB-188	79.4	10 -145	D
13C-PCB-11	89.2	5 -145	D	13C-PCB-189	70.1	10 -145	D
13C-PCB-9	87.7	5 -145	D	13C-PCB-194	85.2	10 -145	D
13C-PCB-19	67.1	5 -145	D	13C-PCB-202	62.5	10 -145	D
13C-PCB-28	93.3	5 -145	D	13C-PCB-206	103	10 -145	D
13C-PCB-32	62.5	5 -145	D	13C-PCB-208	97.2	10 -145	D
13C-PCB-37	100	5 -145	D	13C-PCB-209	105	10 -145	D
13C-PCB-47	93.2	5 -145	D	CRS 13C-PCB-79	95.8	10 -145	D
13C-PCB-52	92.5	5 -145	D	13C-PCB-178	87.2	10 -145	D
13C-PCB-54	93.9	5 -145	D				
13C-PCB-70	94.2	5 -145	D				
13C-PCB-77	91.9	10 -145	D				
13C-PCB-80	91.4	10 -145	D				
13C-PCB-81	93.2	10 -145	D				
13C-PCB-95	90.7	10 -145	D				
13C-PCB-97	92.9	10 -145	D				
13C-PCB-101	90.7	10 -145	D				
13C-PCB-104	88.9	10 -145	D				
13C-PCB-105	88.4	10 -145	D				
13C-PCB-114	90.1	10 -145	D				
13C-PCB-118	87.2	10 -145	D				
13C-PCB-123	91.2	10 -145	D				
13C-PCB-126	77.0	10 -145	D				
13C-PCB-127	79.5	10 -145	D				
13C-PCB-138	88.7	10 -145	D				
13C-PCB-141	89.1	10 -145	D				
13C-PCB-153	90.7	10 -145	D				
13C-PCB-155	69.0	10 -145	D				
13C-PCB-156	89.0	10 -145	D				
13C-PCB-157	88.4	10 -145	D				
13C-PCB-159	88.5	10 -145	D				
13C-PCB-167	89.9	10 -145	D				
13C-PCB-169	82.1	10 -145	D				

RL - Reporting limit
 EMPC - Estimated maximum possible concentration

DL - Sample specific 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: ST-CB-04A-20150210-S

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1500166-05		Date Received:	12-Feb-2015 9:12		
Project:	1400647			Sample Size:	3.89 g		QC Batch:	B5B0069		Date Extracted:	17-Feb-2015 14:17		
Date Collected:	10-Feb-2015 11:51			% Solids:	63.0		Date Analyzed :	20-Feb-15 00:48		Column:	ZB-1 Analyst: DMS		

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-1	2570	102			0.320	D	PCB-44	6700	102			0.745	D
PCB-2	210	102			0.240	D	PCB-45	506	102			0.402	D
PCB-3	622	102			0.323	D	PCB-46	186	102			0.537	D
PCB-4/10	1460	204			1.14	D	PCB-47	839	102			2.19	D
PCB-5/8	2810	204			1.76	D	PCB-48/75	571	204			0.983	D
PCB-6	772	102			1.00	D	PCB-50	ND	102	54.3		0.603	D
PCB-7/9	613	204			1.34	D	PCB-51	ND	102		107	0.789	D
PCB-11	328	102			3.48	D	PCB-52/69	10400	204			0.722	D
PCB-12/13	373	204			1.37	D	PCB-53	583	102			0.331	D
PCB-14	ND	102	112		0.337	D	PCB-54	ND	102	43.3		0.275	D
PCB-15	1020	102			0.634	D	PCB-55	ND	102		190	0.416	D
PCB-16/32	1130	204			0.430	D	PCB-56/60	2970	204			0.825	D
PCB-17	582	102			0.658	D	PCB-57	ND	102	51.7		0.354	D
PCB-18	1730	102			0.696	D	PCB-58	ND	102	54.6		0.589	D
PCB-19	216	102			0.612	D	PCB-61/70	11400	204			1.20	D
PCB-20/21/33	1040	306			2.47	D	PCB-62	ND	102	50.3		0.597	D
PCB-22	521	102			0.964	D	PCB-63	186	102			0.524	D
PCB-23	ND	102	28.5		0.543	D	PCB-65	ND	102	50.2		0.842	D
PCB-24/27	151	204			0.742	J, D	PCB-66/76	4600	204			1.31	D
PCB-25	ND	102		83.0	0.768	D	PCB-67	86.9	102			0.486	J, D
PCB-26	286	102			0.766	D	PCB-68	ND	102	45.6		0.658	D
PCB-28	979	102			1.12	D	PCB-73	ND	102	43.3		0.454	D
PCB-29	ND	102	33.8		0.949	D	PCB-74	2380	102			0.781	D
PCB-30	ND	102	30.3		0.355	D	PCB-77	458	102			0.748	D
PCB-31	1350	102			0.809	D	PCB-78	ND	102	44.8		0.385	D
PCB-34	ND	102	32.1		1.57	D	PCB-79	338	102			0.633	D
PCB-35	64.5	102			0.565	J, D	PCB-80	ND	102	41.7		0.336	D
PCB-36	ND	102	40.1		0.406	D	PCB-81	132	102			0.674	D
PCB-37	581	102			0.389	D	PCB-82	3210	102			0.981	D
PCB-38	ND	102	38.1		0.528	D	PCB-83	ND	102	39.6		0.440	D
PCB-39	ND	102	41.0		0.461	D	PCB-84/92	11200	204			1.01	D
PCB-40	728	102			0.927	D	PCB-85/116	3990	204			1.64	D
PCB-41/64/71/72	3770	408			1.70	D	PCB-86	ND	102	71.4		1.79	D
PCB-42/59	1000	204			0.899	D	PCB-87/117/125	9410	306			0.880	D
PCB-43/49	3590	204			0.879	D	PCB-88/91	3170	204			1.25	D

RL - Reporting limit

DL - Sample specific 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: ST-CB-04A-20150210-S

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1500166-05		Date Received:	12-Feb-2015 9:12		
Project:	1400647			Sample Size:	3.89 g		QC Batch:	B5B0069		Date Extracted:	17-Feb-2015 14:17		
Date Collected:	10-Feb-2015 11:51			% Solids:	63.0		Date Analyzed :	20-Feb-15 00:48		Column:	ZB-1 Analyst: DMS		

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-89	166	102			1.22	D	PCB-136	3200	102			0.776	D
PCB-90/101	28100	204			1.19	D	PCB-137	1620	102			0.541	D
PCB-93	ND	102	66.9		2.53	D	PCB-138/163/164	27400	306			0.809	D
PCB-94	87.0	102			0.874	J, D	PCB-139/149	23100	204			1.49	D
PCB-95/98/102	20200	306			1.38	D	PCB-140	ND	102	101		1.20	D
PCB-96	148	102			0.588	D	PCB-141	5410	102			0.678	D
PCB-97	7740	102			0.675	D	PCB-144	1470	102			1.38	D
PCB-99	9310	102			0.474	D	PCB-145	ND	102	60.7		1.05	D
PCB-100	ND	102	45.6		0.511	D	PCB-146/165	3220	204			0.792	D
PCB-103	130	102			0.428	D	PCB-147	442	102			5.26	D
PCB-104	ND	102	36.1		0.876	D	PCB-148	ND	102	97.9		1.45	D
PCB-105	8530	102			0.462	D	PCB-150	ND	102	73.0		0.801	D
PCB-106/118	23800	204			0.728	D	PCB-151	5770	102			1.16	D
PCB-107/109	1340	204			0.631	D	PCB-152	ND	102	65.3		0.744	D
PCB-108/112	1070	204			0.844	D	PCB-153	21100	102			0.484	D
PCB-110	28900	102			0.555	D	PCB-154	ND	102		268	0.837	D
PCB-111/115	396	204			1.24	D	PCB-155	ND	102	65.4		0.767	D
PCB-113	ND	102	39.9		0.495	D	PCB-156	3010	102			0.534	D
PCB-114	477	102			0.418	D	PCB-157	666	102			0.485	D
PCB-119	403	102			0.383	D	PCB-158/160	3360	204			0.915	D
PCB-120	80.9	102			0.622	J, D	PCB-159	ND	102	89.0		0.578	D
PCB-121	ND	102	34.9		0.978	D	PCB-166	114	102			0.425	D
PCB-122	225	102			0.619	D	PCB-167	1100	102			0.653	D
PCB-123	417	102			0.494	D	PCB-168	ND	102	76.1		0.502	D
PCB-124	943	102			0.813	D	PCB-169	ND	102	90.2		0.767	D
PCB-126	136	102			0.543	D	PCB-170	6500	102			0.758	D
PCB-127	ND	102	63.8		0.326	D	PCB-171	1580	102			0.372	D
PCB-128/162	4710	204			1.08	D	PCB-172	881	102			0.857	D
PCB-129	1810	102			0.567	D	PCB-173	229	102			0.507	D
PCB-130	1660	102			0.798	D	PCB-174	6720	102			0.797	D
PCB-131	ND	102	121		0.731	D	PCB-175	246	102			0.679	D
PCB-132/161	8860	204			1.05	D	PCB-176	803	102			0.729	D
PCB-133/142	936	204			1.04	D	PCB-177	3790	102			0.404	D
PCB-134/143	1730	204			1.05	D	PCB-178	1300	102			0.610	D
PCB-135	3360	102			1.47	D	PCB-179	2940	102			0.418	D

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific 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: ST-CB-04A-20150210-S

EPA Method 1668C

Client Data				Sample Data			Laboratory Data						
Name:	Leidos			Matrix:	Sediment		Lab Sample:	1500166-05		Date Received:	12-Feb-2015 9:12		
Project:	1400647			Sample Size:	3.89 g		QC Batch:	B5B0069		Date Extracted:	17-Feb-2015 14:17		
Date Collected:	10-Feb-2015 11:51			% Solids:	63.0		Date Analyzed :	20-Feb-15 00:48		Column:	ZB-1 Analyst: DMS		

Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers	Analyte	Conc. (pg/g)	RL	DL	EMPC	MDL	Qualifiers
PCB-180	15000	102			0.420	D	Total octaCB	13300	102		13500		
PCB-181	ND	102	45.0		1.26	D	Total nonaCB	1960	102				
PCB-182/187	7010	204			1.33	D	DecaCB	554	102				B
PCB-183	3430	102			0.638	D	Total PCB	426000	102				B
PCB-184	ND	102	30.7		0.597	D							
PCB-185	589	102			0.557	D							
PCB-186	ND	102	34.4		0.421	D							
PCB-188	ND	102	31.6		0.759	D							
PCB-189	ND	102		214	0.483	D							
PCB-190	ND	102		1140	0.686	D							
PCB-191	ND	102		222	0.447	D							
PCB-192	ND	102	35.7		0.528	D							
PCB-193	710	102			0.836	D							
PCB-194	2950	102			0.645	D							
PCB-195	1280	102			0.722	D							
PCB-196/203	3710	204			0.983	D							
PCB-197	ND	102		143	0.794	D							
PCB-198	228	102			0.792	D							
PCB-199	3380	102			0.615	D							
PCB-200	447	102			0.795	D							
PCB-201	487	102			0.317	D							
PCB-202	704	102			0.759	D							
PCB-204	ND	102	71.5		0.543	D							
PCB-205	142	102			0.471	D							
PCB-206	1400	102			0.852	D							
PCB-207	194	102			0.402	D							
PCB-208	366	102			0.441	D							
PCB-209	554	102			1.10	B, D							
Total monoCB	3400	102											
Total diCB	7390	102											
Total triCB	8640	102		8720									
Total tetraCB	51400	102		51700									
Total pentaCB	164000	102											
Total hexaCB	124000	102											
Total heptaCB	51700	102		53300									

RL - Reporting limit
EMPC - Estimated maximum possible concentration

DL - Sample specific 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: ST-CB-04A-20150210-S

EPA Method 1668C

Client Data		Sample Data		Laboratory Data			
Name:	Leidos	Matrix:	Sediment	Lab Sample:	1500166-05	Date Received:	12-Feb-2015 9:12
Project:	1400647	Sample Size:	3.89 g	QC Batch:	B5B0069	Date Extracted:	17-Feb-2015 14:17
Date Collected:	10-Feb-2015 11:51	% Solids:	63.0	Date Analyzed :	20-Feb-15 00:48	Column:	ZB-1 Analyst: DMS

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	50.6	5 -145	D	13C-PCB-170	68.7	10 -145	D
13C-PCB-3	52.4	5 -145	D	13C-PCB-180	76.4	10 -145	D
13C-PCB-4	82.3	5 -145	D	13C-PCB-188	76.2	10 -145	D
13C-PCB-11	85.4	5 -145	D	13C-PCB-189	67.3	10 -145	D
13C-PCB-9	82.7	5 -145	D	13C-PCB-194	87.6	10 -145	D
13C-PCB-19	64.1	5 -145	D	13C-PCB-202	58.6	10 -145	D
13C-PCB-28	87.4	5 -145	D	13C-PCB-206	109	10 -145	D
13C-PCB-32	66.4	5 -145	D	13C-PCB-208	105	10 -145	D
13C-PCB-37	82.4	5 -145	D	13C-PCB-209	119	10 -145	D
13C-PCB-47	84.4	5 -145	D	CRS 13C-PCB-79	90.3	10 -145	D
13C-PCB-52	89.1	5 -145	D	13C-PCB-178	77.9	10 -145	D
13C-PCB-54	86.0	5 -145	D				
13C-PCB-70	85.1	5 -145	D				
13C-PCB-77	81.2	10 -145	D				
13C-PCB-80	81.9	10 -145	D				
13C-PCB-81	86.7	10 -145	D				
13C-PCB-95	89.2	10 -145	D				
13C-PCB-97	92.3	10 -145	D				
13C-PCB-101	89.3	10 -145	D				
13C-PCB-104	85.5	10 -145	D				
13C-PCB-105	87.0	10 -145	D				
13C-PCB-114	93.9	10 -145	D				
13C-PCB-118	83.9	10 -145	D				
13C-PCB-123	87.9	10 -145	D				
13C-PCB-126	79.6	10 -145	D				
13C-PCB-127	84.3	10 -145	D				
13C-PCB-138	85.6	10 -145	D				
13C-PCB-141	90.4	10 -145	D				
13C-PCB-153	89.8	10 -145	D				
13C-PCB-155	65.7	10 -145	D				
13C-PCB-156	83.0	10 -145	D				
13C-PCB-157	83.4	10 -145	D				
13C-PCB-159	85.6	10 -145	D				
13C-PCB-167	83.4	10 -145	D				
13C-PCB-169	73.6	10 -145	D				

RL - Reporting limit

DL - Sample specific 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.

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

FOR LABORATORY USE ONLY

Storage Secured Yes No

Laboratory Project ID: 1500166

Storage ID: WR2 Temp: _____ °C

Project I.D.: 1400647 P.O.# P010163569 Sampler: Christine Nanarrow (Name)

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

Invoice to: Name Christine Nanarrow Company Leidas Address 18912 N Creek Pkwy City Bothell State WA Zip 98011 Ph# 480 773 0744 Fax# _____

Relinquished by: (Signature and Printed Name) [Signature] Corey Wilson Date: 2/11/15 Time: 1000 Received by: (Signature and Printed Name) [Signature] D. Benedict Date: 02/12/15 Time: 0915

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

Method of Shipment: Fed ex

ATTN: Sample Receiving

Tracking No.: _____

Quantity	Type	Matrix	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	2378-TCDD	2378-TCDD/TCDF	PCDD/PCDF	TOTALS	COPLANAR PCB's	209 CONGENERS	PBDE	PAH	WHO-29	Add Analysis(es) Requested					
																		EPA1613	EPA8290	EPA8280	EPA1668	EPA1614	CARB429
4	A	AQ	✓									✓	✓										
4	A	AQ	✓									✓	✓										
4	A	AQ	✓									✓	✓										
1	G	SD	✓									✓	✓										
1	G	SD	✓									✓	✓										

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:

Name: _____
 Company: SAME AS ABOVE
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ Fax: _____
 Email: _____

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 _____

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1500166 TAT Std

Samples Arrival:	Date/Time 02/12/15 0912	Initials: BJB	Location: WR-2
			Shelf/Rack: NA
Logged In:	Date/Time 02/12/15 1355	Initials: BJB	Location: WR-2
			Shelf/Rack: B4
Delivered By:	<u>FedEx</u>	UPS	On Trac
			DHL
			Hand Delivered
			Other
Preservation:	<u>Ice</u>	Blue Ice	Dry Ice
			None
Temp °C: 2.1 (uncorrected)	Time: 0914		Thermometer ID: IR-1
Temp °C: 2.2 (corrected)			

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill <u>1 of 2</u> Trk # <u>8007 0382 6263</u>	✓		
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 ₂ S ₂ O ₃ Preservation Documented?	COC	Sample Container	<u>None</u>
Shipping Container	Vista	<u>Client</u>	Retain <u>Return</u> Dispose

Comments:

ST-OF-01-2015-0210-W A, B Containers
 ST-FD-02-2015-⁰²¹⁰~~1408~~-W A, B, C
 ST-TS-01-2015-0210-W ↓ ↓

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1500 166 TAT Std

Samples Arrival:	Date/Time: <u>02/12/15 0912</u>	Initials: <u>BSB</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>NA</u>
Logged In:	Date/Time: <u>02/12/15 1355</u>	Initials: <u>BSB</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>B4/FG</u>
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
Temp °C: <u>2.2</u> (uncorrected)	Time: <u>0917</u>		Thermometer ID: IR-1
Temp °C: <u>2.3</u> (corrected)			

	YES	NO	NA
Adequate Sample Volume Received?	<input checked="" type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>		
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>		
Airbill <u>2042</u> Trk # <u>7801 9697 1985</u>	<input checked="" type="checkbox"/>		
Sample Container Intact?	<input checked="" type="checkbox"/>		
Sample Custody Seals Intact?			<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>		
COC Anomaly/Sample Acceptance Form completed?		<input checked="" type="checkbox"/>	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			<input checked="" type="checkbox"/>
Na ₂ S ₂ O ₃ Preservation Documented?			<input checked="" type="checkbox"/> None
Shipping Container	Vista	<input checked="" type="checkbox"/> Client	Retain <input type="checkbox"/> Return <input checked="" type="checkbox"/> Dispose

Comments:

ST-FD-02-2015-0210-W D container AQ
 ST-TS-01-20150210-W ↓
 ST-OF-01-20150210-W C, D ↓
 ST-CB-04A-20150210-S solid
 ST-CB-08-20150210-S ↓

EXTRACTION INFORMATION

Process Sheet
 Workorder: **1500166**

Prep Expiration: 02/10/2016

Client: Leidos

Workorder Due: 05-Mar-15 00:00

TAT: 21

Method: **1613 Full List**

Matrix: **Aqueous**

Client Matrix: Aqueous

Also run: **Percent Solids**

Prep Batch: B5B0083

Prep Data Entered: M.T 2/25/15
Date and Initials

Initial Sequence: S5B0037

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1500166-01	<input checked="" type="checkbox"/>	ST-TS-01-20150210-W	12-Feb-15 09:12	WR-2 B-4	
1500166-02	<input checked="" type="checkbox"/>	ST-FD-02-20150210-W	12-Feb-15 09:12	WR-2 B-4	
1500166-03	<input checked="" type="checkbox"/>	ST-OF-01-20150210-W	12-Feb-15 09:12	WR-2 B-4	

Vista PM: Martha Maier

Vial Box ID: Round Bottom

Sample Reconciled By: B. Smith 2/18/15

D2216-90

BATCH ID

B5B0077

Analyst: B. Smith	Test Code: %Moist/%Solids
Analyte: Dried at 110°C+/-5°C	Units: %

HRMS-4

<u>Date/Time IN:</u>	<u>Date/Time OUT:</u>
2/18/15 1013	2/19/15 1526

Pan #	SampID	Source ID	SampType	Initial and Date:		Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	BMS 2/18/15			Cl-
				Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)				pH Before	pH After	Acid Added	
	1500166-01		Sample	1.3200	14.5600	1.3500	0.0300	0.23	7	N/A	N/A	0
	1500166-02		Sample	1.3300	15.2400	1.3500	0.0200	0.14	7	N/A	N/A	0
	1500166-03		Sample	1.3300	18.1000	1.3400	0.0100	0.06	7	N/A	N/A	0
	1500169-01		Sample	1.3300	17.4000	1.3300	0.0000	0.00	7	N/A	N/A	0
	1500171-01		Sample	1.3200	14.5200	1.3300	0.0100	0.08	7	N/A	N/A	0
	1500172-01		Sample	1.3200	26.1600	1.3400	0.0200	0.08	7	N/A	N/A	0
	1500172-02		Sample	1.3200	17.2100	1.3400	0.0200	0.13	7	N/A	N/A	0
	1500172-03		Sample	1.3000	13.7100	1.3000	0.0000	0.00	7	N/A	N/A	0
	1500172-04		Sample	1.3100	20.8600	1.3300	0.0200	0.10	7	N/A	N/A	0
	1500172-05		Sample	1.3100	16.7100	1.3300	0.0200	0.13	7	N/A	N/A	0
	1500173-01		Sample	1.3300	14.5600	1.3800	0.0500	0.38	7	N/A	N/A	0
	1500174-01		Sample	1.2800	19.0800	1.3400	0.0600	0.34	7	N/A	N/A	0
	1500174-02		Sample	1.3200	19.5900	1.3300	0.0100	0.05	6	N/A	N/A	0
	1500188-01		Sample	1.3000	16.8900	1.3900	0.0900	0.58	7	N/A	N/A	0
	1500188-02		Sample	1.3000	13.3000	1.3600	0.0600	0.50	7	N/A	N/A	0

Analyst: B. Smith	Test Code: %Moist/%Solids
Analyte: Dried at 110°C+/-5°C	Units: %

HRMS-4 Date/Time IN: 2/18/15 10:13 Date/Time OUT: 2/19/15 15:26

Pan #	SampID	Source ID	SampType	Initial and Date:		Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	BMS21815			
				Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)				pH Before	pH After	Acid Added	Cl-
	1500166-01		Sample	1.32	14.56	1.35						
	1500166-02		Sample	1.33	15.24	1.35						
	1500166-03		Sample	1.33	18.10	1.34						
	1500169-01		Sample	1.33	17.40	1.33						
	1500171-01		Sample	1.32	14.52	1.33						
	1500172-01		Sample	1.32	26.16	1.34						
	1500172-02		Sample	1.32	17.21	1.34						
	1500172-03		Sample	1.30	13.71	1.36						
	1500172-04		Sample	1.31	20.86	1.33						
	1500172-05		Sample	1.31	16.71	1.33						
	1500173-01		Sample	1.33	14.56	1.38						
	1500174-01		Sample	1.28	19.08	1.34						
	1500174-02		Sample	1.32	19.59	1.33						

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 1613 Full List

Method: 1613 TCDD Only

Method: 8290 Full List

B5B0083

Chemist: B. Smith

Prep Date/Time: 20-Feb-15 08:16

Prepared using: HRMS - SPE Extraction

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
<input type="checkbox"/>	1500190-02	1536.88	503.73	1.0256	M.T. 2/20/15	M.T. 2/25/15	NA	M.T. 2/25/15	M.T. 2/25/15	M.T. 2/25/15	M.T. 2/25/15
<input type="checkbox"/>	1500191-01	1528.02	502.42	1.0256	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1500193-01	1522.45	502.99	1.01946	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1500194-01	1523.58	503.75	1.01983	↓	↓	↓	↓	↓	↓	↓

① Sample used two filters. BMS 2/20/15

Ⓐ 1.03315 (sample amount)

IS Name PCDD/F <u>14H2704, 10µl</u>	NS Name PCDD/F <u>13L1101, 10µl</u>	CRS Name PCDD/F <u>14H2705, 10µl</u>	RS Name PCDD/F <u>14H2706, 10µl</u>	Cycle Time Start Date/Time <u>2/20/15 17:37</u>	APP: SEFUN SOX <u>SDS</u> SOLV: <u>Tol</u> Other: <u>SPE</u>	Check Out: Chemist/Date: <u>BMS 2/20/15</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>2/21/15 09:40</u>	Final Volume(s) <u>20µl</u> <u>64</u>	Check In: Chemist/Date: <u>empt</u>
PAH _____	PAH _____	PAH _____	PAH _____			Balance ID: <u>HRMS-4</u>

Comments:

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 1613 Full List

Method: 1613 TCDD Only

Method: 8290 Full List

B5B0083

Chemist: B. Smith

Prep Date/Time: 20-Feb-15 08:16

Prepared using: HRMS - SPE Extraction

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
	B5B0083-BLK1*	M/A	M/A	(1.000)	BMS (M.T) 2/20/15	M.T 2/25/15	M/A	M.T 2/25/15	M.T 2/25/15	M.T 2/25/15	M.T 2/25/15
	B5B0083-BS1 (A)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
	B5B0083-BS2 (B)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
	B5B0083-BS3 (C)	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
	1500067-03										
	1500067-04										
	1500166-01	1510.11	504.86	1.00525	BMS (M.T) 2/20/15	M.T 2/25/15	M/A				
	1500166-02	1517.16	504.17	1.01299	↓	↓	↓	↓	↓	↓	↓
	1500166-03	1518.56	503.31	1.01525	↓	↓	↓	↓	↓	↓	↓
	1500184-01	1330.84	387.69	0.94315	↓	↓	↓	↓	↓	↓	↓
	1500184-02 (D)	1319.07	387.75	0.93132	↓	↓	↓	↓	↓	↓	↓
	1500185-01	1541.45	506.22	1.00823	↓	↓	↓	↓	↓	↓	↓
	1500185-02	1546.92	505.84	1.04108	↓	↓	↓	↓	↓	↓	↓
	1500185-03	1548.29	506.21	1.04208	↓	↓	↓	↓	↓	↓	↓
	1500185-04	1556.36	505.63	1.05073	↓	↓	↓	↓	↓	↓	↓
	1500190-01	1552.94	510.93	1.04201	↓	↓	↓	↓	↓	↓	↓

IS Name: V7	NS Name: V13	CRS Name: V8	RS Name: V7	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: BMS 2/20/15
PCDD/F: 14H2704, 10µL	PCDD/F: 13L1101, 10µL	PCDD/F: 14H2705, 10µL	PCDD/F: 14H2706, 10µL	Start Date/Time: 2/20/15 1737	SOLV: Tol	Chemist/Date: BMS 2/20/15
PCB	PCB: 15B0309, 20µL	PCB	PCB	Stop Date/Time: 2/21/15 0940	Other: SPE	Check In: empty ↓
PAH	PAH: 15B0309, 25µL	PAH	PAH	Final Volume(s): 20µL	CU	Chemist/Date: empty ↓
						Balance ID: HAMSY

Comments:

(D) Sample used two filters. BMS 2/20/15

* Blank ~~was~~ approached near dryness after final volume Rotovap for final volume. M.T 2/25/15

Process Sheet
Workorder: 1500166

Prep Expiration: 02/10/2016
 Client: Leidos

Workorder Due: 05-Mar-15 00:00

TAT: 21

Method: **1613 Full List**
 Matrix: **Solid**
 Client Matrix: Sediment
 Also run: **Percent Solids**

Prep Batch: BSB0068

Prep Data Entered: 2/13/15 [Signature]
Date and Initials

Initial Sequence: f 5530025

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1500166-04	<input checked="" type="checkbox"/>	ST-CB-08-20150210-S	12-Feb-15 09:12	WR-2 F-6	
1500166-05	<input checked="" type="checkbox"/>	ST-CB-04A-20150210-S	12-Feb-15 09:12	WR-2 F-6	

Vista PM: Martha Maier

Vial Box ID: Color is the New Black

Sample Reconciled By: B. Roberts 2/13/15

Solids estimate

Batch: B5B0056

Lab ID	Analysis	% Solids	Entered	Target weight	Weigh this much
1500158-01	Percent Solids	54.11		10.00	18.48
1500158-02	Percent Solids	37.44		10.00	26.71
1500166-04	Percent Solids	48.58		10.00	20.59
1500166-05	Percent Solids	63.05		10.00	15.86

Percent Moisture/ Percent Solids

D2216-90

BATCH ID

B5B0056

Analyst: B. Roberts	Test Code: %Moist/%Solids
Analyte: Dried at 110°C+/-5°C	Units: %

HRMS-2

<u>Date/Time IN:</u>	<u>Date/Time OUT:</u>
2/13/15 16:15	2/17/15 13:05

Pan #	SampID	Source ID	SampType	E		G		H	K	M N O P		
				Initial and Date:		BR 2/13/15	AC 2/17/15					
				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-
	1500158-01		Sample	1.3000	12.2400	7.2200	5.9200	54.11	NA	NA	NA	NA
	1500158-02		Sample	1.3000	12.1700	5.3700	4.0700	37.44	NA	NA	NA	NA
	1500166-04		Sample	1.2900	14.2800	7.6000	6.3100	48.58	NA	NA	NA	NA
	1500166-05		Sample	1.3100	16.7900	11.0700	9.7600	63.05	NA	NA	NA	NA

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B5B0056

Analyst: B. Roberts

Test Code: %Moist/%Solids

Analyte:

Units: %

Dried at 110°C+/-5°C

Date/Time IN: Date/Time OUT

2/13/15 16:15 2/11/15 13:05

INST HRMS-2

Pan #	SampID	Source ID	SampType	Initial and Date:		Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	NA			Cl-
				Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)				pH Before	pH After	Acid Added	
	1500158-01		Sample	1.30	12.24	7.22			NA	NA	NA	NA
	1500158-02		Sample	1.30	12.17	5.37			↓	↑	↓	↓
	1500166-04		Sample	1.29	14.28	7.60						
	1500166-05		Sample	1.31	16.79	11.07						

PREPARATION BENCH SHEET

Matrix: Solid

B5B0068

Chemist: A. Clarke

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 17-Feb-15 14:06

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	CSB0059	CSB0060	CSB0060	CSB0061	RS CHEM/WIT DATE
						AP CHEM/DATE	ABSG CHEM/DATE	AA CHEM/DATE	Florisil CHEM/DATE	
<input type="checkbox"/>	B5B0068-BLK1	10.00	(10.00)	AC 13 2/17/15	AC 13 2/18/15	AC 2/18/15	AC 2/18/15	AC 2/18/15	AC 2/18/15	AC 13 2/18/15
<input type="checkbox"/>	B5B0068-BSI	↓	↓	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1500166-04	20.59	20.60	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1500166-05	15.86	16.29	↓	↓	↓	↓	↓	↓	↓

IS Name	NS Name	CRS Name	RS Name	Cycle Time	APP: SEFUN SOX SDS	Check Out: Chemist/Date:
PCDD/F 14H2704 10 _μ L	PCDD/F 13L1101 10 _μ L	PCDD/F 4H2705 10 _μ L	PCDD/F 14H2706 10 _μ L	Start Date/Time: 2/17/15 1620	SOLV: TOL	AC 2/17/15
PCB	PCB	PCB	PCB	Stop Date/Time: 2/18/15 0830	Other: N/A	Check In: Chemist/Date: ↓
PAH	PAH	PAH	PAH	Final Volume(s): 20 _μ L C14		Balance ID: HRMS-2

Comments:

Process Sheet
Workorder: 1500166

Prep Expiration: 02/10/2016
 Client: Leidos

Workorder Due: 05-Mar-15 00:00

TAT: 21

Method: **1668C Full List**
 Matrix: **Aqueous**
 Client Matrix: Aqueous
 Also run: **Percent Solids**

Prep Batch: BSB0085

Prep Data Entered: SR 2/25/15
Date and Initials

Initial Sequence: _____

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1500166-01	<input checked="" type="checkbox"/>	ST-TS-01-20150210-W	12-Feb-15 09:12	WR-2 B-4	
1500166-02	<input checked="" type="checkbox"/>	ST-FD-02-20150210-W	12-Feb-15 09:12	WR-2 B-4	
1500166-03	<input checked="" type="checkbox"/>	ST-OF-01-20150210-W	12-Feb-15 09:12	WR-2 B-4	

Vista PM: Martha Maier

Vial Box ID: Annie

Sample Reconciled By: M.T 2/29/15

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B5B0084

Analyst: MJT	Test Code: %Moist/%Solids
Analyte: Dried at 110°C+/-5°C	Units: %

INST HRMS-4
 Date/Time IN: 2/20/15 0:00
 Date/Time OUT: 2/23/15 07:46
 10.00

Pan #	SampID	Source ID	SampType	Initial and Date:		Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	MJT 2/20/2015			
				Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)				pH Before	pH After	Acid Added	Cl-
	1500166-01RE1		Sample	1.34	9.03	1.34		6	2	10	0	
	1500166-02RE1		Sample	1.33	9.53	1.34		6	2	T	0	
	1500166-03RE1		Sample	1.32	9.31	1.32		6	2		0	
	1500183-01		Sample	1.27	10.71	1.27		6	2		0	
	1500183-02		Sample	1.31	14.81	1.31		6	2		0	
	1500183-03		Sample	1.32	11.51	1.32		6	2		0	
	B5B0085-MB		QC	_____					6	2		0
	B5B0085-B\$1		QC	_____					5	2		0
				_____					5	2		0

(A) Acid added in drops. M.T. 2/20/15

Percent Moisture/ Percent Solids

D2216-90

BATCH ID

B5B0084

Analyst: MJT

Test Code: %Moist/%Solids

Analyte:

Dried at 110°C+/-5°C

Units: %

Date/Time IN: 2/20/15 10:00
Date/Time OUT: 2/23/15 0746

HRMS-4

Pan #	SampID	Source ID	SampType	E		G	H	K	M N O P			
				Intial and Date:					Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	pH Before
	1500166-01RE1		Sample	1.3400	9.0300	1.3400	0.0000	0.00	6	2	10	0
	1500166-02RE1		Sample	1.3300	9.5300	1.3400	0.0100	0.12	6	2	10	0
	1500166-03RE1		Sample	1.3200	9.3100	1.3200	0.0000	0.00	6	2	10	0
	1500183-01		Sample	1.2700	10.7100	1.2700	0.0000	0.00	6	2	10	0
	1500183-02		Sample	1.3100	14.8100	1.3100	0.0000	0.00	6	2	10	0
	1500183-03		Sample	1.3200	11.5100	1.3200	0.0000	0.00	6	2	10	0
	B5B0085-MB								5	2	10	0
	B5B0085-BS1								5	2	10	0

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 1668C Full List

B5B0085

Chemist: M.T

Prep Date/Time: 20-Feb-15 08:53

Prepared using: HRMS - Separatory Funnel

C5B1093 SR 2/25/14

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
<input type="checkbox"/>	B5B0085-BLK1	NA	NA	(1.000)	M.T SR 2/20/15	SR 2/23/14	2/23/15	SR 2/25/15	N/A	N/A	SR 2/25/15
<input type="checkbox"/>	B5B0085-BS1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1500166-01	1495.54	503.94	0.99160	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1500166-02	1504.55	504.52	1.00003	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1500166-03	1514.82	504.18	1.01064	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1500183-01	1547.97	508.33	1.03964	↓	N/A SR 2/25/15	N/A	↓	↓	↓	↓
<input type="checkbox"/>	1500183-02	1536.24	509.51	1.02673	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1500183-03	1497.96	506.72	0.99124	↓	↓	↓	↓	↓	↓	↓

- ⓑ Samples run through sodium sulfate due to water in samples 166-2, 166-3, 183-1 SR 2/23/15
- ⓒ Samples run through sodium sulfate a second time due to water in sample 166-3 SR 2/24/15
- ⓓ QCs and samples 166-1, 166-2, 166-3 acid partitioned SR 2/25/15
- ⓔ 1:10 dilutions made SR 2/25/15

IS Name PCDD/F 14L2202, 10nl PCB SR 2/23/15 PAH	NS Name 2/23/15 PCDD/F 14L2204, 10nl PCB PAH	CRS Name V8 PCDD/F PCB 14L2201, 10nl PAH	RS Name V3 PCDD/F PCB 14L2203, 10nl PAH	Cycle Time Start Date/Time NA Stop Date/Time NA	APP: SEFUN SOX (SDS) SOLV: DCM Other NA Final Volume(s) 20ml C9	Check Out: Chemist/Date: M.T 2/20/15 Check In: Chemist/Date: Empty Balance ID: HRMS
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Comments: ⓐ Samples heavily emulsified. used Boiling chips & Beakers to separate. M.T 2/20/15 along with QC M.T 2/20/15

Process Sheet
Workorder: **1500166**

Prep Expiration: 02/10/2016
Client: Leidos

Workorder Due: 05-Mar-15 00:00

TAT: 21

Method: **1668C Full List**
Matrix: **Solid**
Client Matrix: Sediment
Also run: **Percent Solids**

Prep Batch: 1530069

Prep Data Entered: 2/19/15 EP
Date and Initials

Initial Sequence: 55 B0026E

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1500166-04	<input checked="" type="checkbox"/>	ST-CB-08-20150210-S	12-Feb-15 09:12	WR-2 F-6	
1500166-05	<input checked="" type="checkbox"/>	ST-CB-04A-20150210-S	12-Feb-15 09:12	WR-2 F-6	

2g, 2x spike

Vista PM: Martha Maier

Vial Box ID: Annie

Sample Reconciled By: B. Roberts 2/13/15

Solids estimate

Batch: B5B0056

Lab ID	Analysis	% Solids	Entered	Target weight	Weigh this much
1500158-01	Percent Solids	54.11		2.00	3.70
1500158-02	Percent Solids	37.44		2.00	5.34
1500166-04	Percent Solids	48.58		2.00	4.12
1500166-05	Percent Solids	63.05		2.00	3.17

Percent Moisture/ Percent Solids

D2216-90

BATCH ID

B5B0056

Analyst: BR	Test Code: %Moist/%Solids
Analyte: Dried at 110°C+/-5°C	Units: %

<u>Date/Time IN:</u> 2/13/15 16:15	<u>Date/Time OUT:</u> 2/17/15 13:05
---------------------------------------	--

HRMS-2

Pan #	SampID	Source ID	SampType	E		H	K	M N O P						
				Intial and Date:	BR 2/13/15			AC 2/17/15	Dry Sample Weight (g)	%Solids RawVal	pH Before	pH After	Acid Added	Cl-
	1500158-01		Sample	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)								
	1500158-02		Sample	1.3000	12.2400	7.2200	5.9200	54.11	NA	NA	NA	NA	NA	NA
	1500166-04		Sample	1.3000	12.1700	5.3700	4.0700	37.44	NA	NA	NA	NA	NA	NA
	1500166-05		Sample	1.2900	14.2800	7.6000	6.3100	48.58	NA	NA	NA	NA	NA	NA
			Sample	1.3100	16.7900	11.0700	9.7600	63.05	NA	NA	NA	NA	NA	NA

Percent Moisture/ Percent Solids

D2216-90

BATCH ID

B5B0056

Analyst: <u>B. Roberts</u>	Test Code: %Moist/%Solids
Analyte: Dried at 110°C+/-5°C	Units: %

INST HRMS-2

Date/Time IN: 2/13/15 16:15 Date/Time OUT: 2/13/15 18:05

Pan #	SampID	Source ID	SampType	Initial and Date:	DE 2/13/15		NC 2/17/15		Dry Sample Weight (g)	%Solids RawVal	NA			Cl-
					Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	pH Before			pH After	Acid Added		
	1500158-01		Sample	1.30	12.24	7.22					NA	NA	NA	NA
	1500158-02		Sample	1.30	12.17	5.37					↓	↓	↓	↓
	1500166-04		Sample	1.29	14.28	7.60								
	1500166-05		Sample	1.31	16.79	11.07								

PREPARATION BENCH SHEET

Matrix: Solid

B5B0069

Chemist: A. Clarke

Method: 1668C Full List

Prep Date/Time: 17-Feb-15 14:17

Prepared using: HRMS - Soxhlet

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	PS CRS CHEM/WIT DATE	AP CHEM/DATE	ABSG CHEM/DATE	AA CHEM/DATE	Florisil CHEM/DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B5B0069-BLK1	N/A	2.00	AC 2/17/15	ES SR 2/19/15	ES 2/19/15	ES 2/19/15	N/A	N/A	ES SR 2/19/15
<input type="checkbox"/>	B5B0069-BS1	↓	↓	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1500166-04 (A)	4.12	4.34	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1500166-05	3.17	3.89	↓	↓	↓	↓	↓	↓	↓

(A) 1:10 dilution made per request. ES 2/19/15

IS Name 2x	NS Name 2x	PS CRS Name 2x	RS Name 2x	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: Chemist/Date: AC 2/17/15
PCDD/F (v1)	PCDD/F (v2)	PCDD/F (v1)	PCDD/F (v2)	Start Date/Time: 2/17/15 1620	SOLV: TOL	Check In: Chemist/Date:
PCB 14D2901 20µL	PCB 14F1301 20µL	PCB 14D2903 20µL	PCB 14D2904 20µL	Stop Date/Time: 2/18/15 0830	Other: N/A	Balance ID: HRMS-2
PAH	PAH	PAH	PAH		Final Volume(s): 100µL Cg	

Comments:

SAMPLE DATA

EPA Method 1613

Client ID: Method Blank
Lab ID: B5B0083-BLK1

Filename: 150226D1 S:7 Acq:26-FEB-15 14:32:59
GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.000

ConCal: ST150226D1-1
EndCAL: NA

Page 3 of 3

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	*	* n	1.17	NotF η	*	*		483	2.5	0.974	Total Tetra-Dioxins	*	*		483	0.974
1,2,3,7,8-PeCDD	*	* n	0.91	NotF η	*	*		638	2.5	1.05	Total Penta-Dioxins	*	*		1030	1.70
1,2,3,4,7,8-HxCDD	*	* n	1.08	NotF η	*	*		423	2.5	1.61	Total Hexa-Dioxins	*	*		585	2.35
1,2,3,6,7,8-HxCDD	*	* n	1.06	NotF η	*	*		423	2.5	1.67	Total Hepta-Dioxins	*	*		653	2.76
1,2,3,7,8,9-HxCDD	*	* n	0.93	NotF η	*	*		423	2.5	1.81	Total Tetra-Furans	*	*		616	0.888
1,2,3,4,6,7,8-HpCDD	*	* n	1.10	NotF η	*	*		653	2.5	2.76	Total Penta-Furans	0.0000	0.0000		934	1.45
OCDD	*	* n	0.95	NotF η	*	*		1560	1.0	4.52	Total Hexa-Furans	*	*		1120	1.60
											Total Hepta-Furans	*	*		647	1.42
2,3,7,8-TCDF	*	* n	1.07	NotF η	*	*		443	2.5	0.639						
1,2,3,7,8-PeCDF	*	* n	1.07	NotF η	*	*		479	2.5	0.755						
2,3,4,7,8-PeCDF	*	* n	1.03	NotF η	*	*		479	2.5	0.728						
1,2,3,4,7,8-HxCDF	*	* n	1.38	NotF η	*	*		1120	2.5	1.46						
1,2,3,6,7,8-HxCDF	*	* n	1.26	NotF η	*	*		1120	2.5	1.17						
2,3,4,6,7,8-HxCDF	*	* n	1.29	NotF η	*	*		669	2.5	1.01						
1,2,3,7,8,9-HxCDF	*	* n	1.19	NotF η	*	*		669	2.5	1.47						
1,2,3,4,6,7,8-HpCDF	*	* n	1.61	NotF η	*	*		528	2.5	1.19						
1,2,3,4,7,8,9-HpCDF	*	* n	1.53	NotF η	*	*		528	2.5	1.13						
OCDF	*	* n	1.10	NotF η	*	*		680	1.0	1.43						

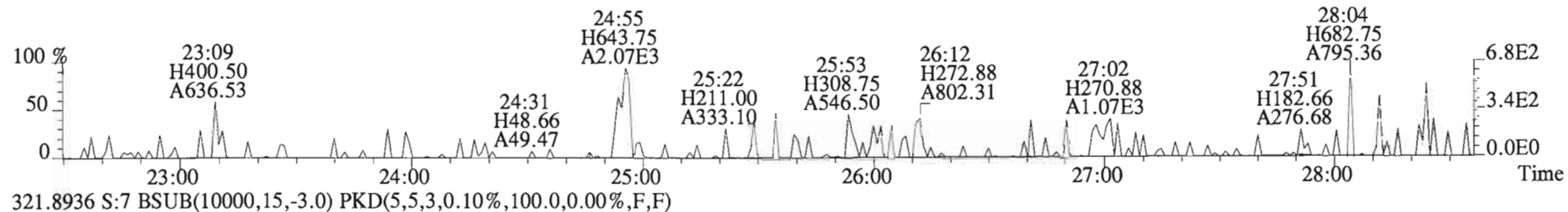
IS	13C-2,3,7,8-TCDD	1.45e+07	0.81 y	1.06	26:59	1.022	1380.2	69.0
IS	13C-1,2,3,7,8-PeCDD	1.63e+07	0.63 y	1.18	31:37	1.197	1400.0	70.0
IS	13C-1,2,3,4,7,8-HxCDD	1.17e+07	1.25 y	0.72	34:58	1.014	1354.1	67.7
IS	13C-1,2,3,6,7,8-HxCDD	1.12e+07	1.22 y	0.74	35:04	1.017	1257.9	62.9
IS	13C-1,2,3,7,8,9-HxCDD	1.31e+07	1.24 y	0.85	35:22	1.026	1272.4	63.6
IS	13C-1,2,3,4,6,7,8-HpCDD	1.08e+07	1.07 y	0.65	38:54	1.128	1372.5	68.6
IS	13C-OCDD	1.90e+07	0.89 y	0.76	42:15	1.225	2065.1	51.6
IS	13C-2,3,7,8-TCDF	2.21e+07	0.76 y	0.92	26:10	0.991	1418.6	70.9
IS	13C-1,2,3,7,8-PeCDF	2.35e+07	1.57 y	0.92	30:25	1.151	1499.9	75.0
IS	13C-2,3,4,7,8-PeCDF	2.53e+07	1.57 y	0.93	31:19	1.186	1598.7	79.9
IS	13C-1,2,3,4,7,8-HxCDF	1.59e+07	0.51 y	0.98	34:04	0.988	1345.6	67.3
IS	13C-1,2,3,6,7,8-HxCDF	2.24e+07	0.51 y	1.08	34:11	0.992	1718.9	85.9
IS	13C-2,3,4,6,7,8-HxCDF	1.61e+07	0.52 y	1.03	34:47	1.009	1303.6	65.2
IS	13C-1,2,3,7,8,9-HxCDF	1.36e+07	0.52 y	0.86	35:44	1.036	1310.0	65.5
IS	13C-1,2,3,4,6,7,8-HpCDF	1.06e+07	0.45 y	0.72	37:35	1.090	1223.6	61.2
IS	13C-1,2,3,4,7,8,9-HpCDF	1.12e+07	0.44 y	0.70	39:26	1.144	1336.0	66.8
IS	13C-OCDF	2.19e+07	0.88 y	0.85	42:27	1.232	2141.3	53.5

C/Up	37C1-2,3,7,8-TCDD	8.62e+06		1.12	27:00	1.022	778.94	97.4
RS/RT	13C-1,2,3,4-TCDD	1.98e+07	0.80 y	1.00	26:25	*	2000.0	
RS	13C-1,2,3,4-TCDF	3.40e+07	0.77 y	1.00	24:55	*	2000.0	
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.41e+07	0.52 y	1.00	34:28	*	2000.0	

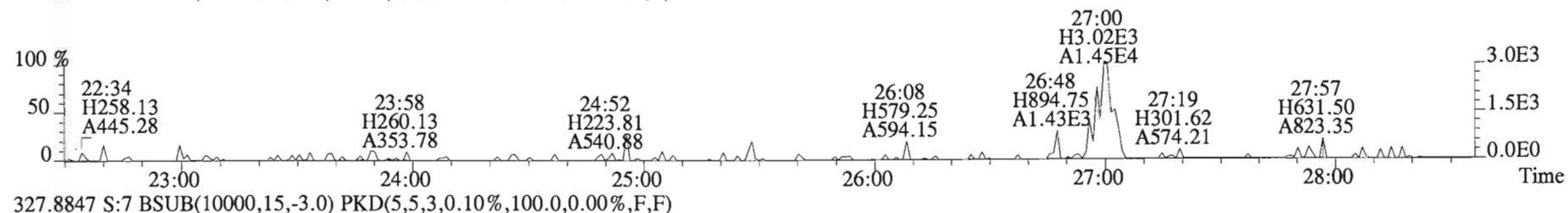
Rec Qual

Integrations
by MI
Analyst: MI
Date: 2/27/15
Reviewed
by [Signature]
Analyst: [Signature]
Date: 2/27/15

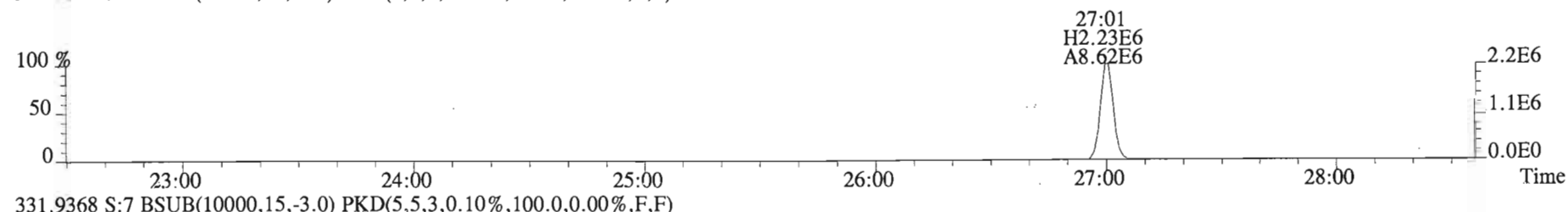
File:150226D1 #1-552 Acq:26-FEB-2015 14:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BLK1 Method Blank 1 Exp:OCDD_DB5
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



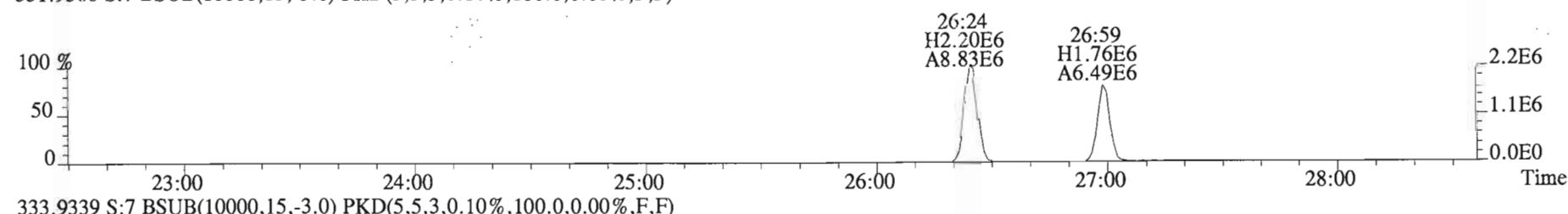
321.8936 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



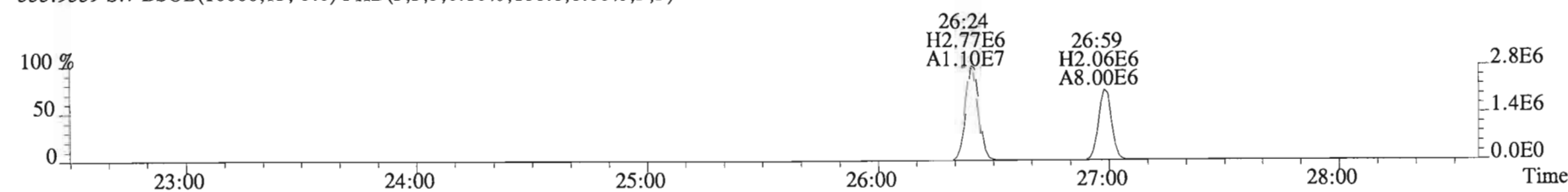
327.8847 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



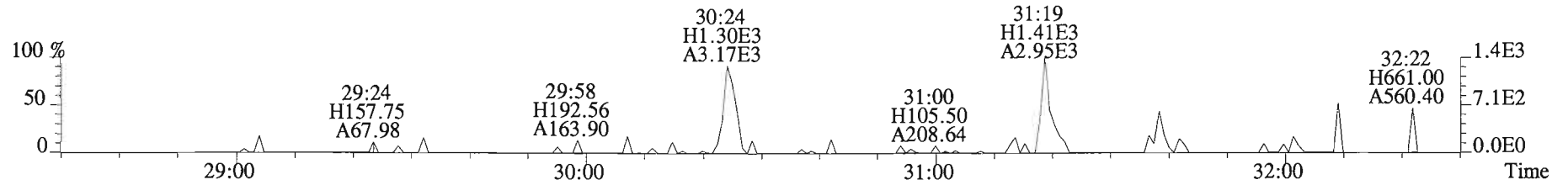
331.9368 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



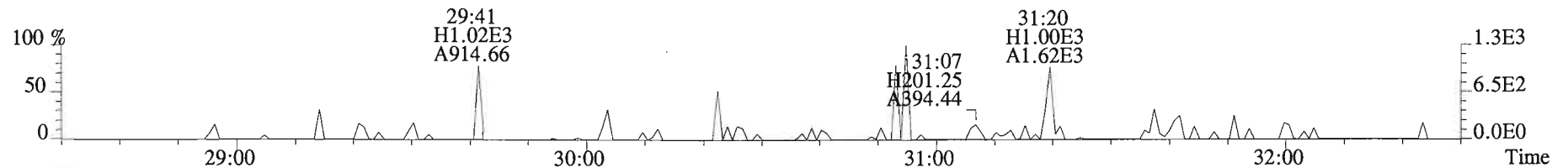
333.9339 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



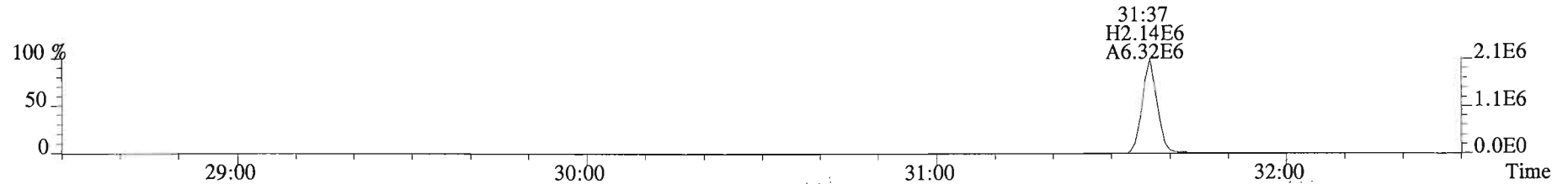
File:150226D1 #1-250 Acq:26-FEB-2015 14:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BLK1 Method Blank 1 Exp:OCDD_DB5
353.8576 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



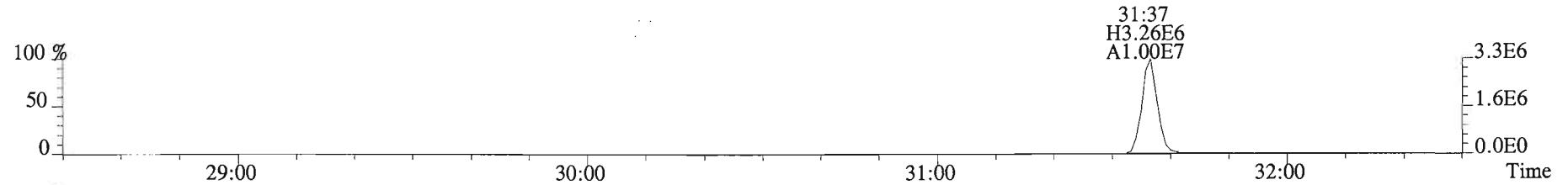
355.8546 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



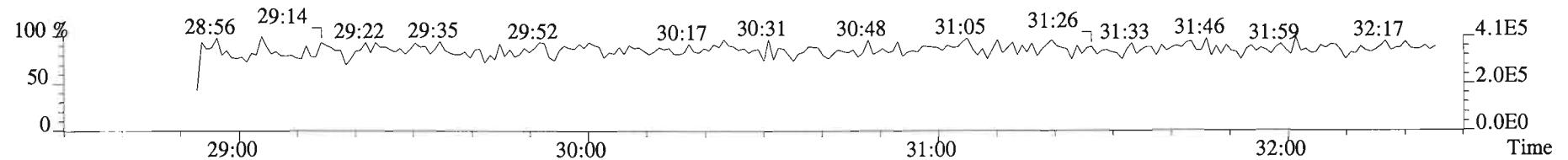
365.8978 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



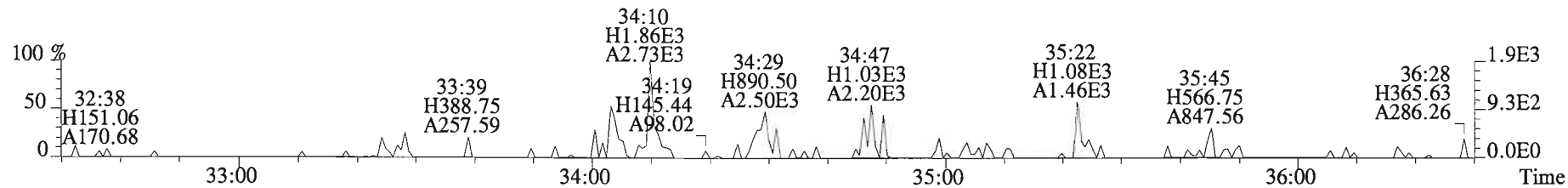
367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



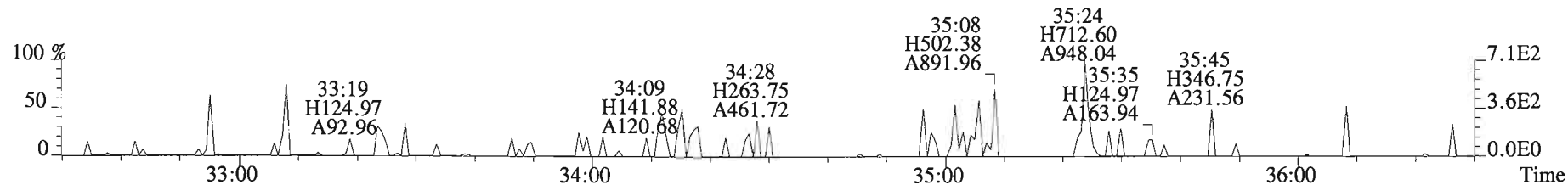
366.9792 S:7 F:2



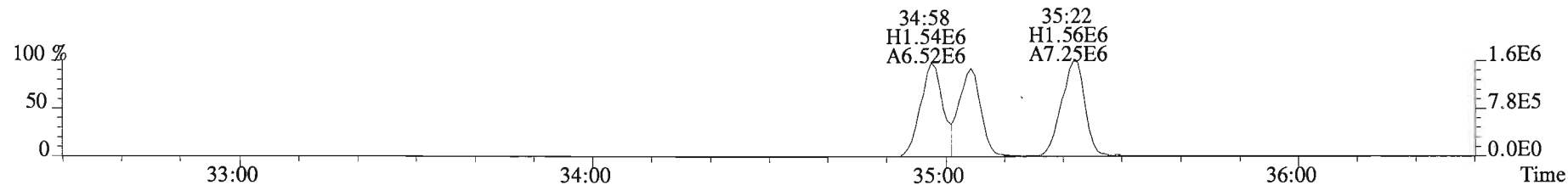
File:150226D1 #1-393 Acq:26-FEB-2015 14:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BLK1 Method Blank 1 Exp:OCDD_DB5
389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



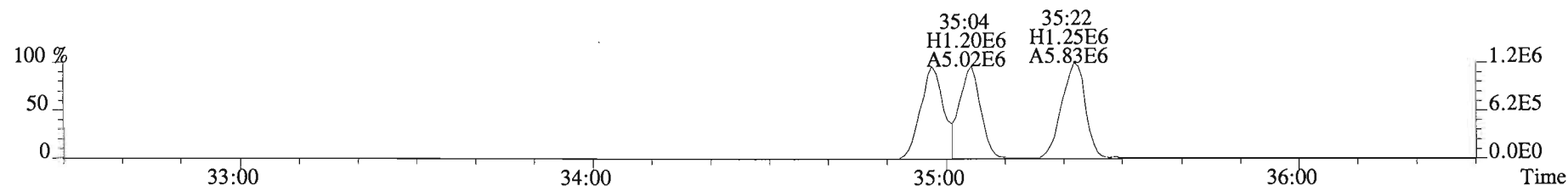
391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



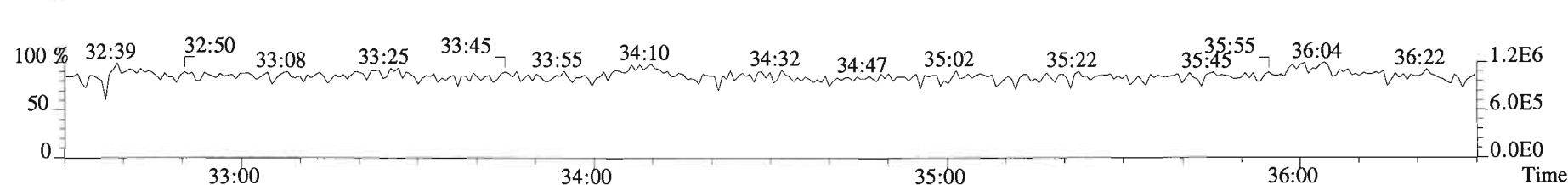
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



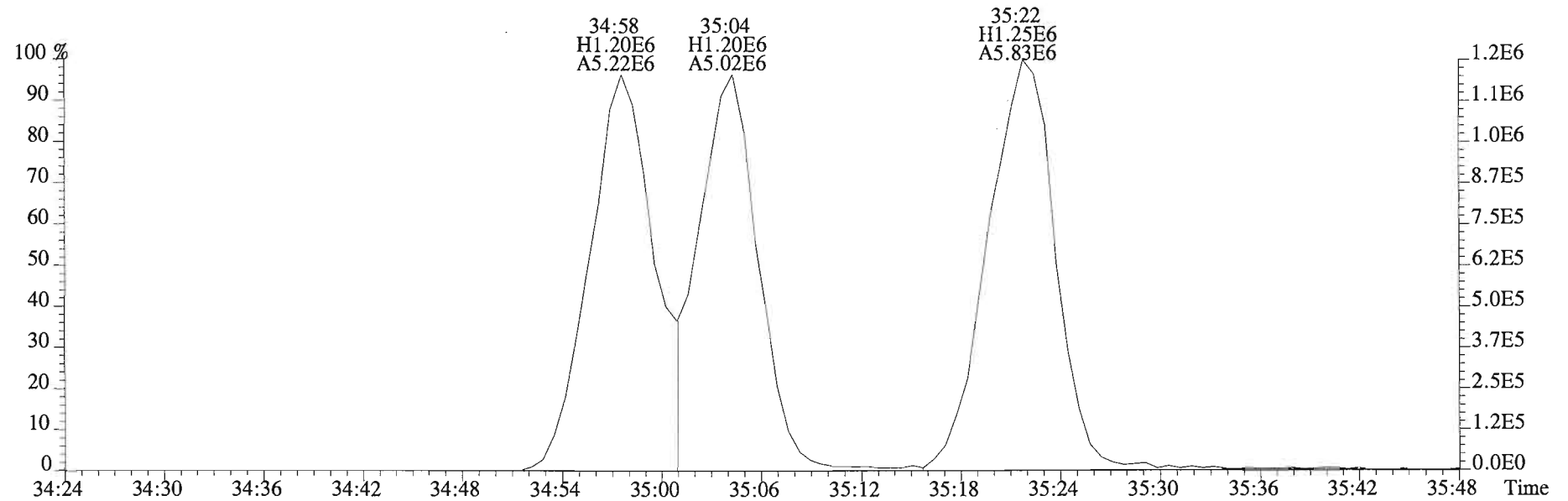
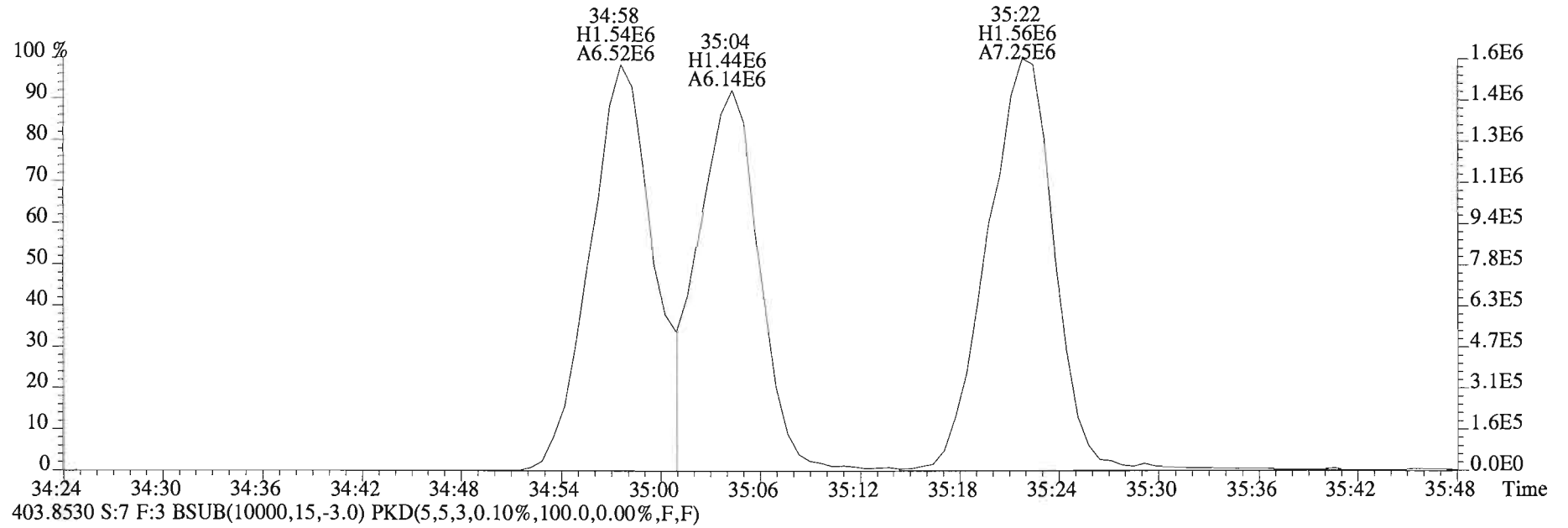
403.8530 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



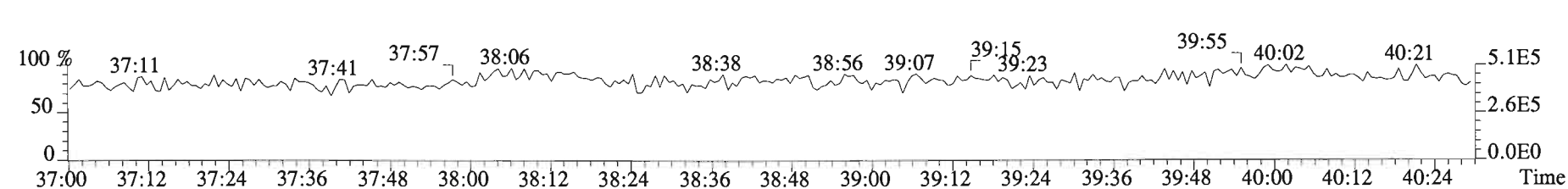
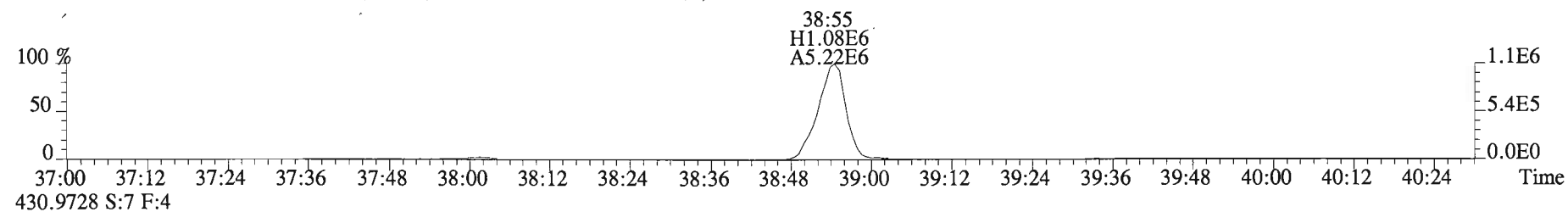
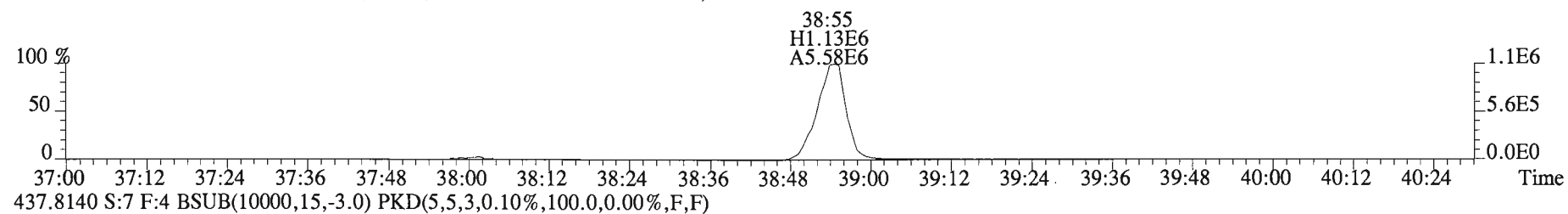
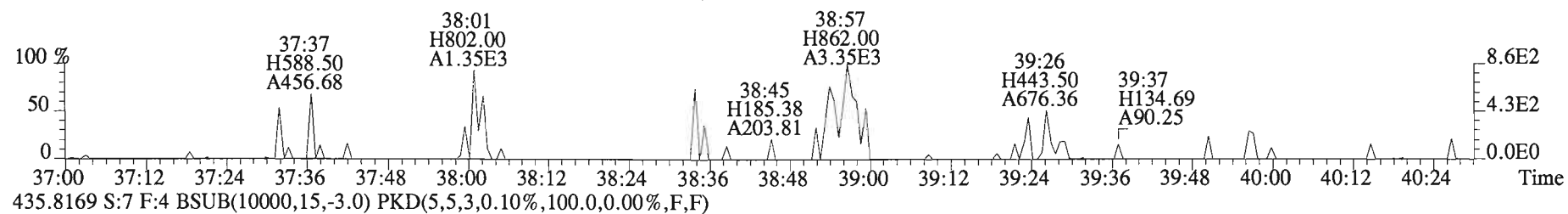
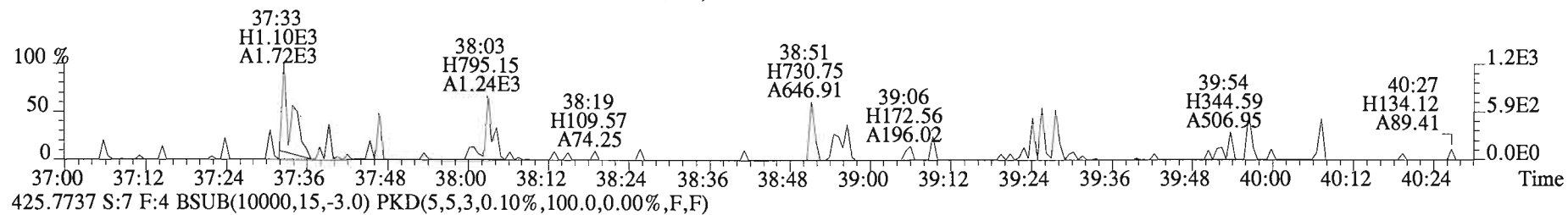
380.9760 S:7 F:3



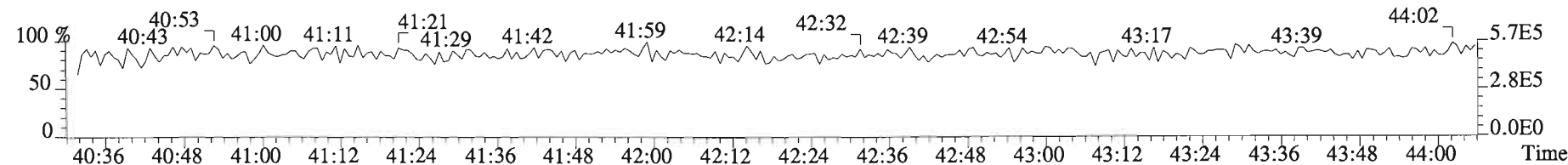
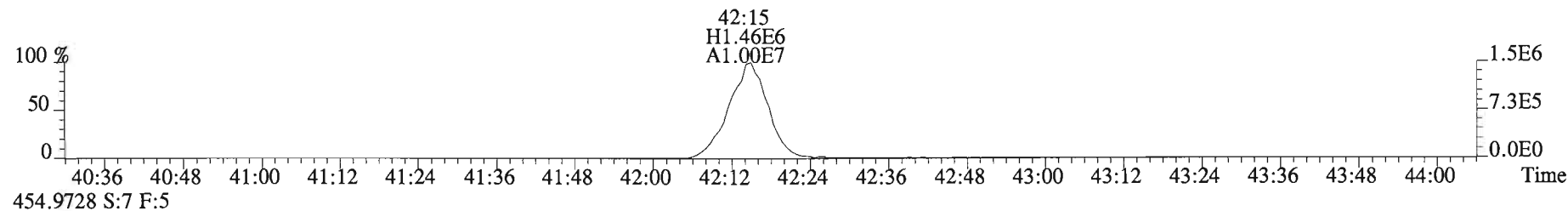
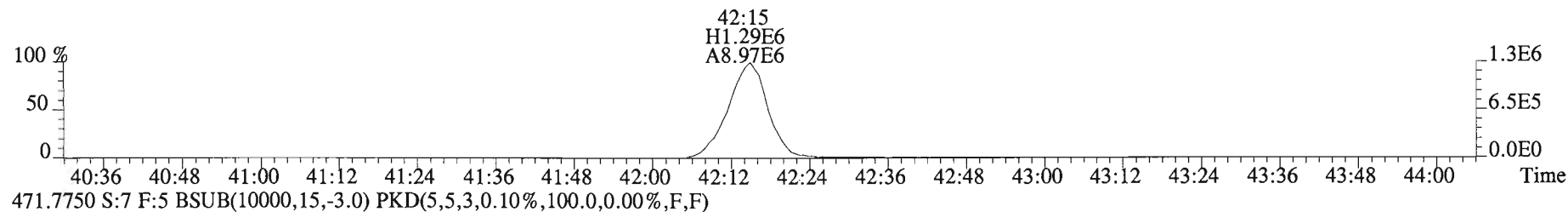
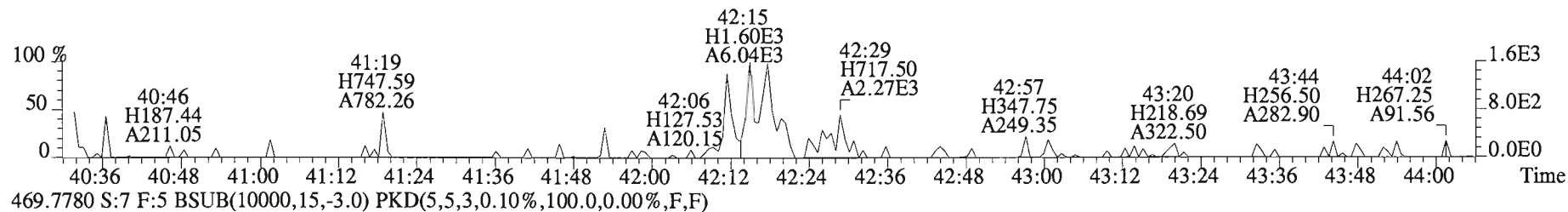
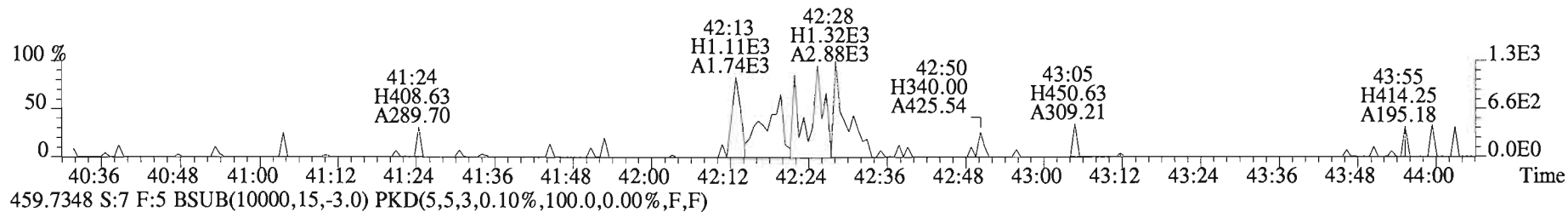
File:150226D1 #1-393 Acq:26-FEB-2015 14:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BLK1 Method Blank 1 Exp:OCDD_DB5
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



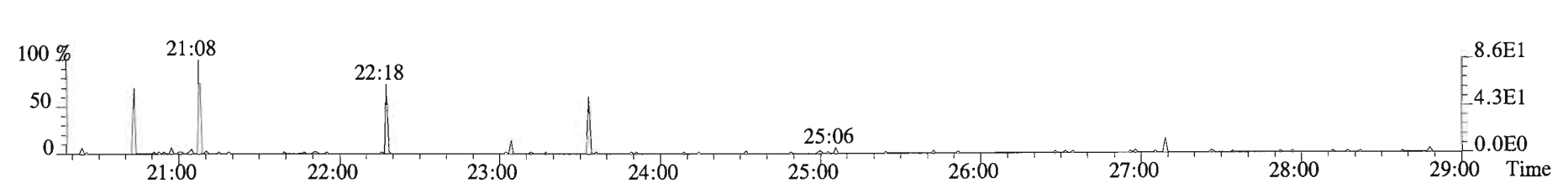
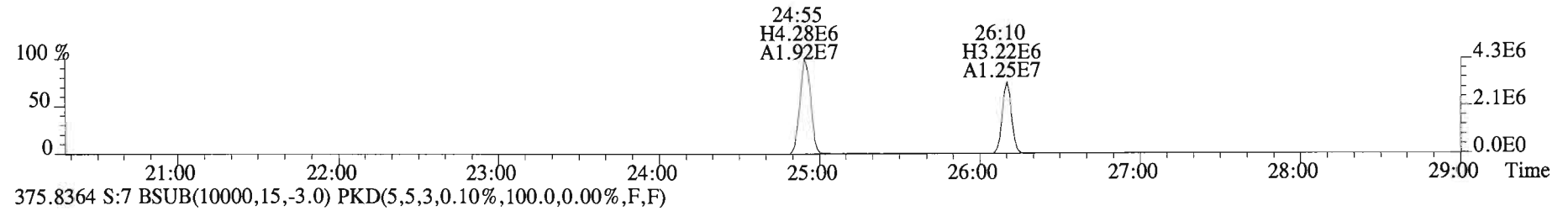
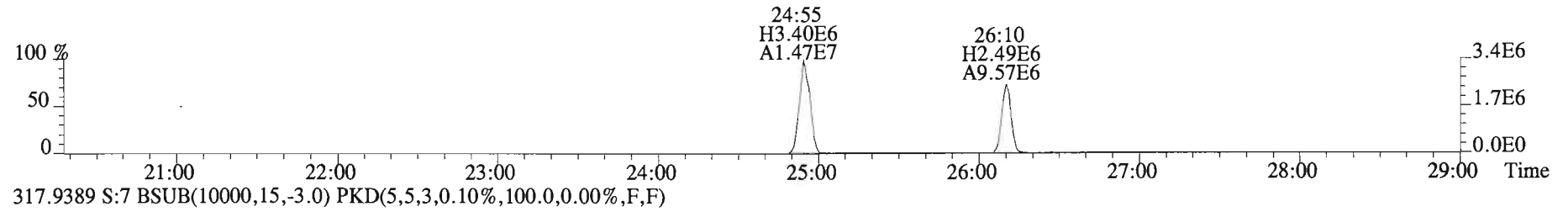
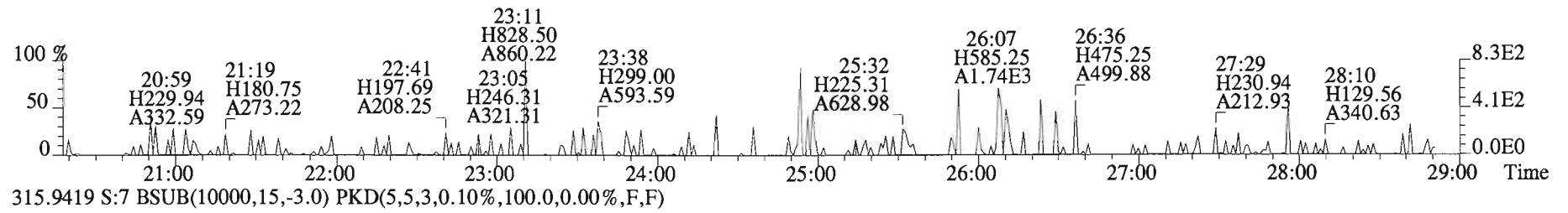
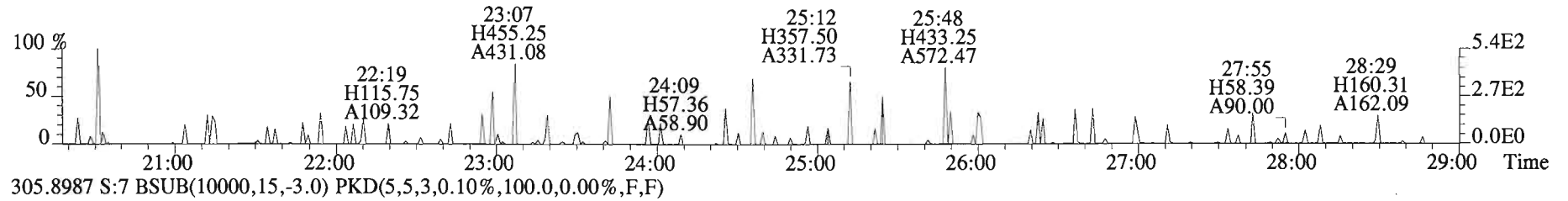
File:150226D1 #1-325 Acq:26-FEB-2015 14:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BLK1 Method Blank 1 Exp:OCDD_DB5
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



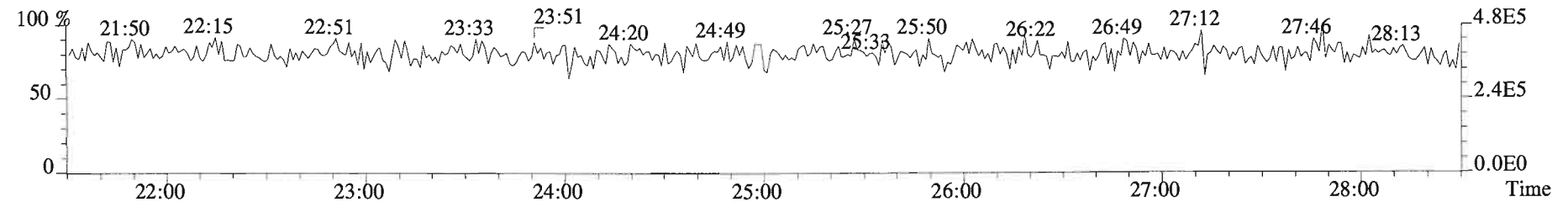
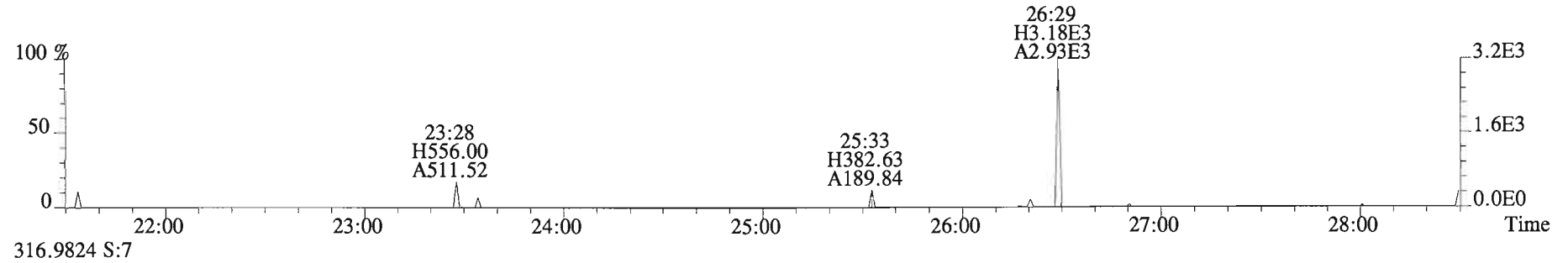
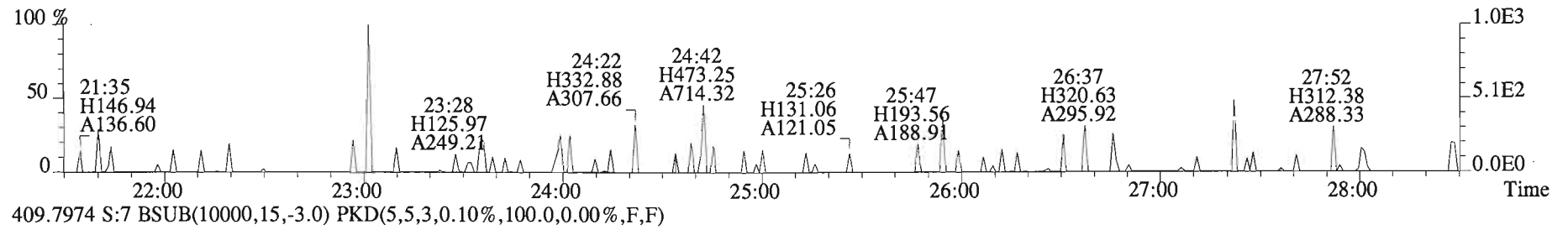
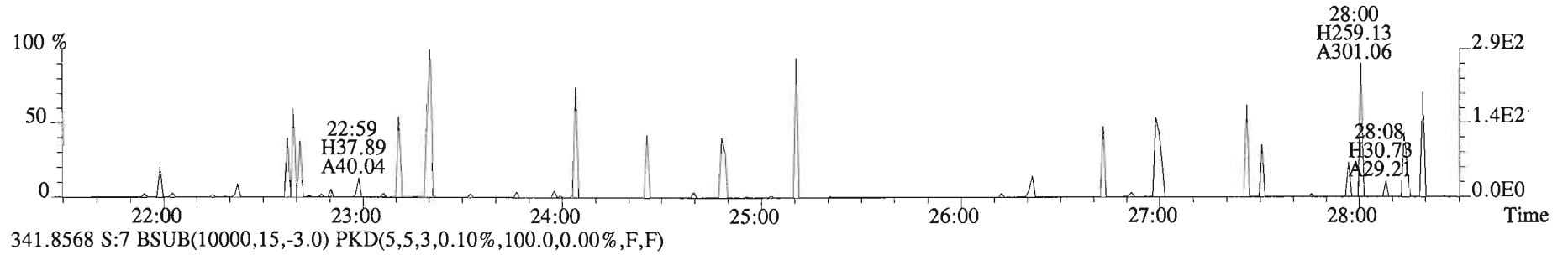
File:150226D1 #1-389 Acq:26-FEB-2015 14:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BLK1 Method Blank 1 Exp:OCDD_DB5
457.7377 S:7 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



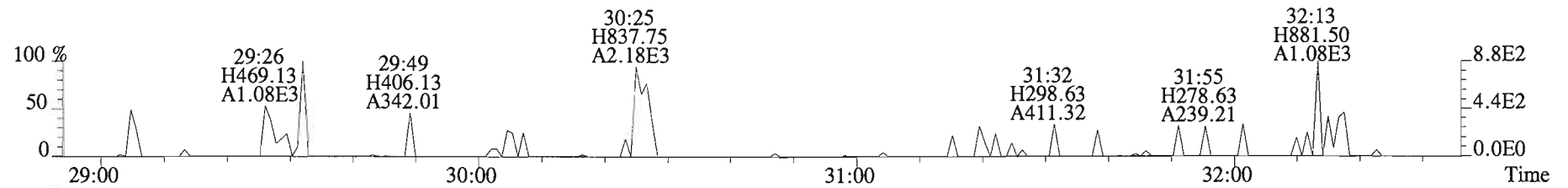
File:150226D1 #1-552 Acq:26-FEB-2015 14:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BLK1 Method Blank 1 Exp:OCDD_DB5
303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



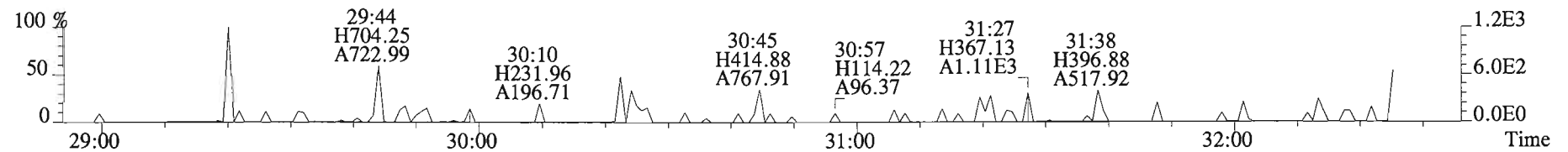
File:150226D1 #1-552 Acq:26-FEB-2015 14:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text: Vista Analytical Laboratory VG-7 Text:B5B0083-BLK1 Method Blank 1 Exp:OCDD_DB5
339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



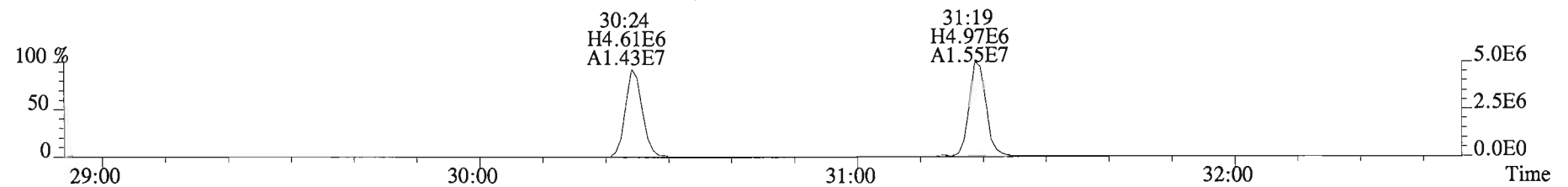
File:150226D1 #1-250 Acq:26-FEB-2015 14:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BLK1 Method Blank 1 Exp:OCDD_DB5
339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



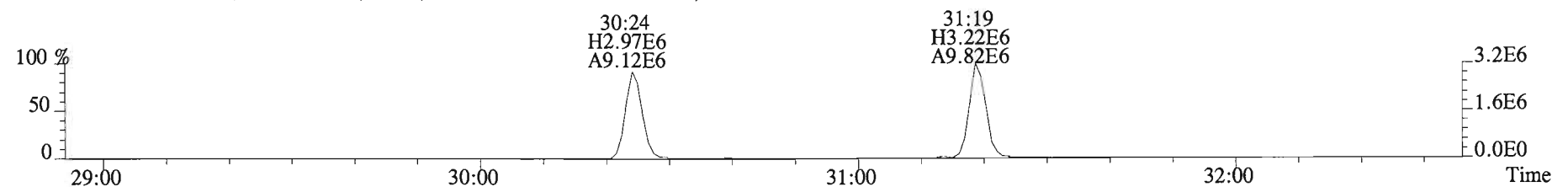
341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



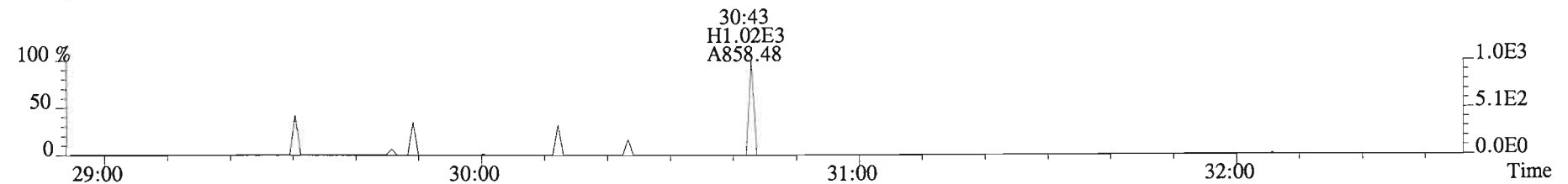
351.9000 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



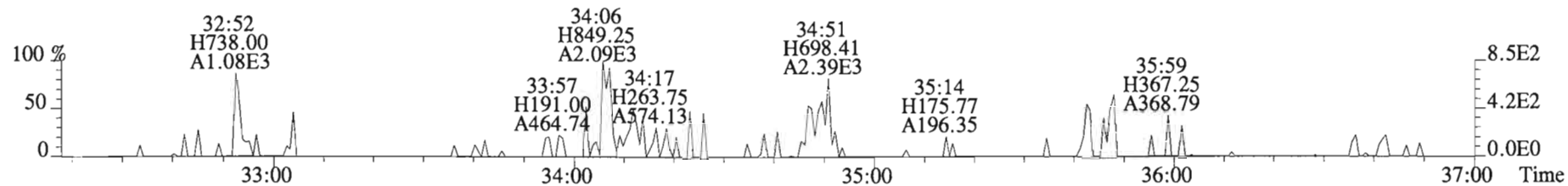
353.8970 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



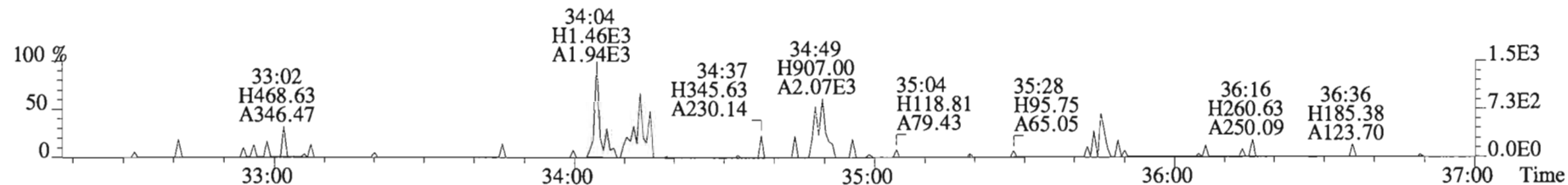
409.7974 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



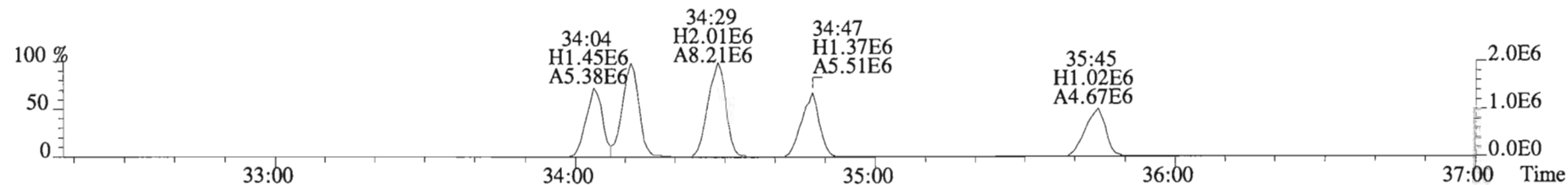
File:150226D1 #1-393 Acq:26-FEB-2015 14:32:59 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BLK1 Method Blank 1 Exp:OCDD_DB5
 373.8207 S:7 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



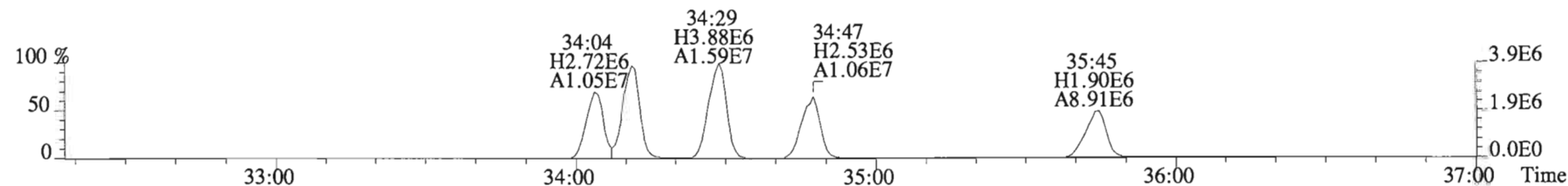
375.8178 S:7 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



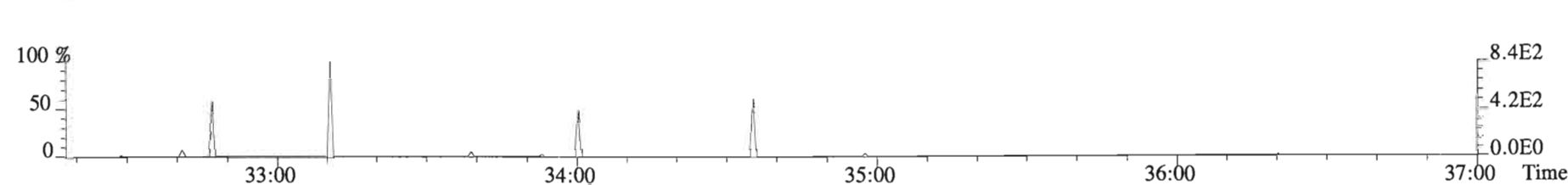
383.8639 S:7 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



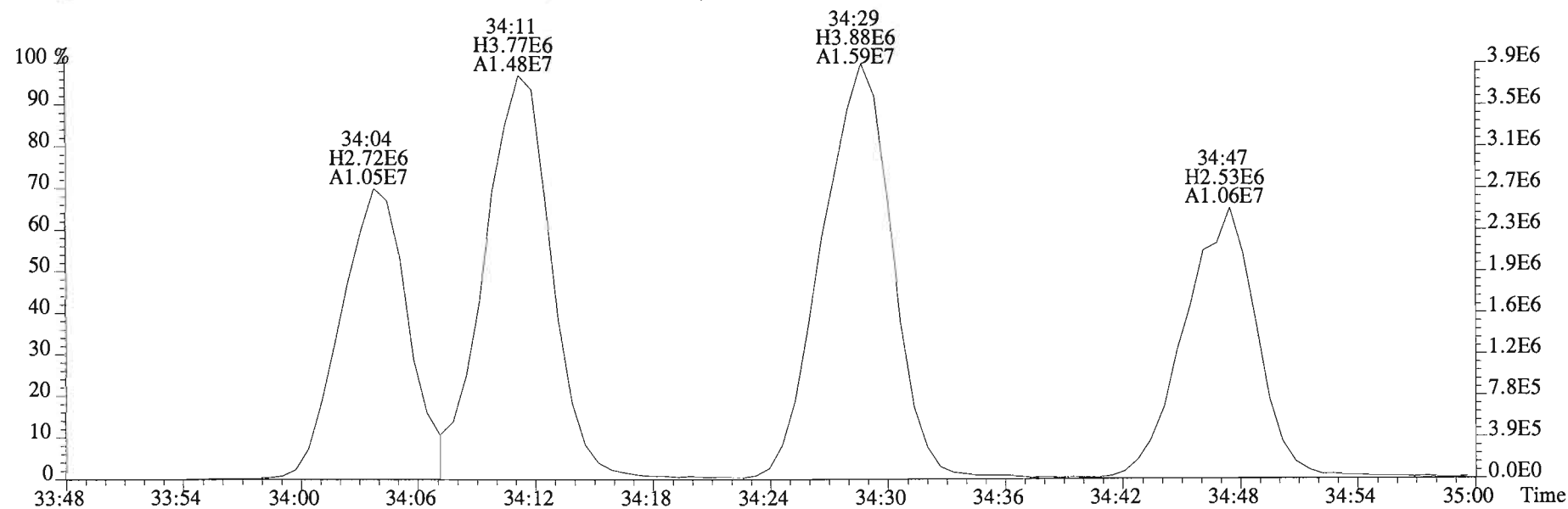
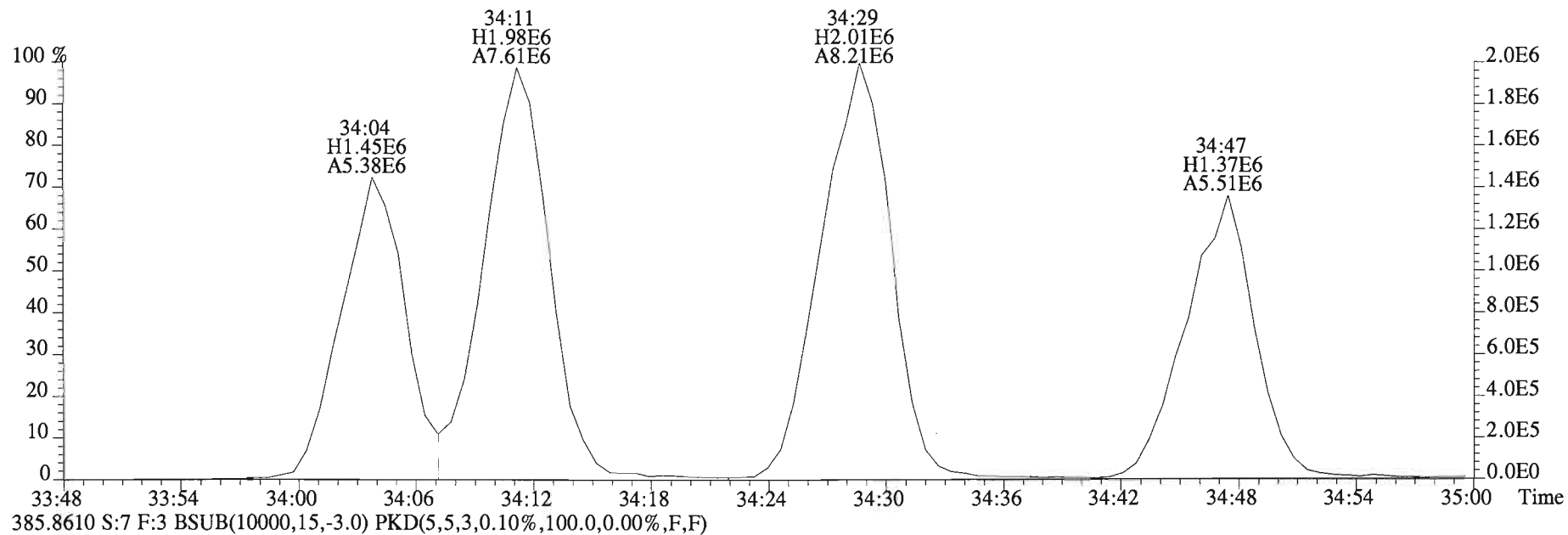
385.8610 S:7 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



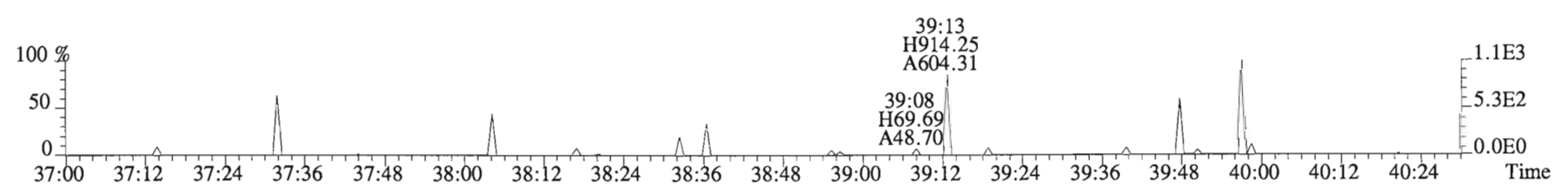
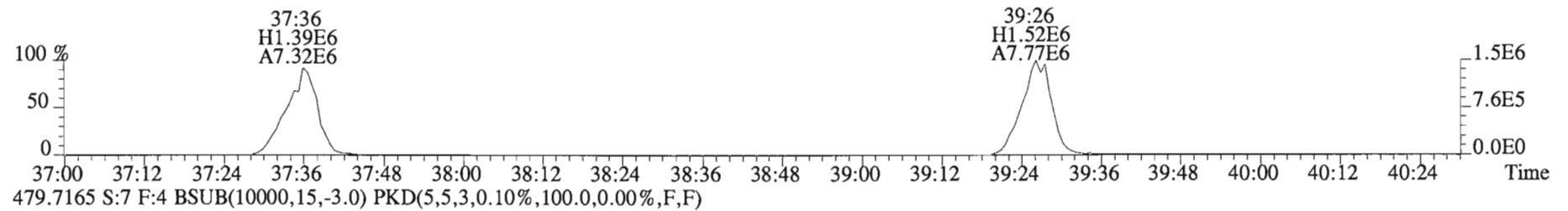
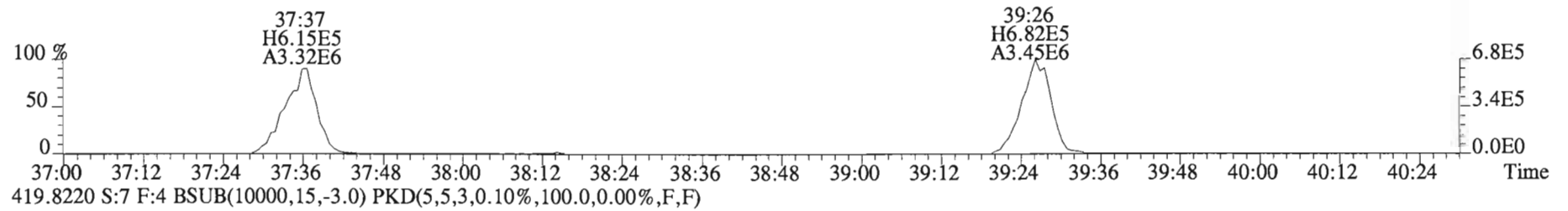
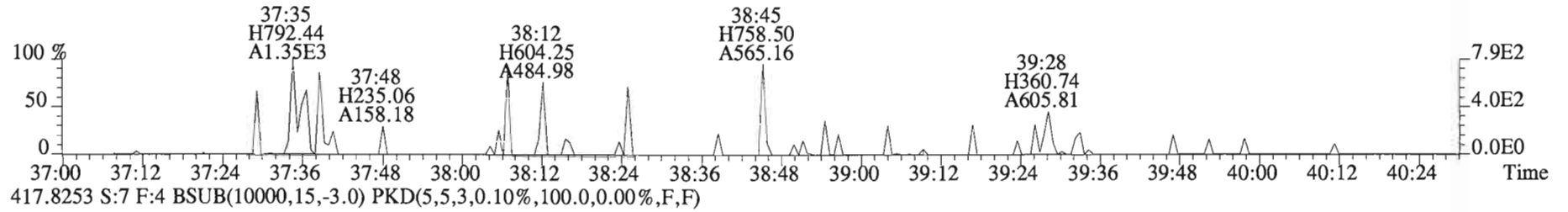
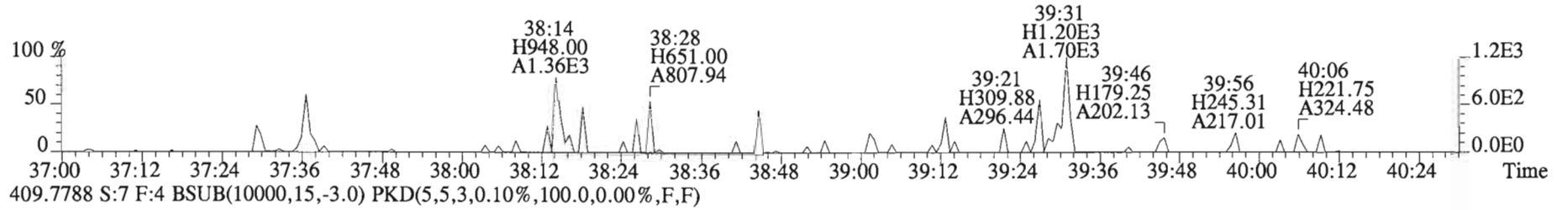
445.7555 S:7 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



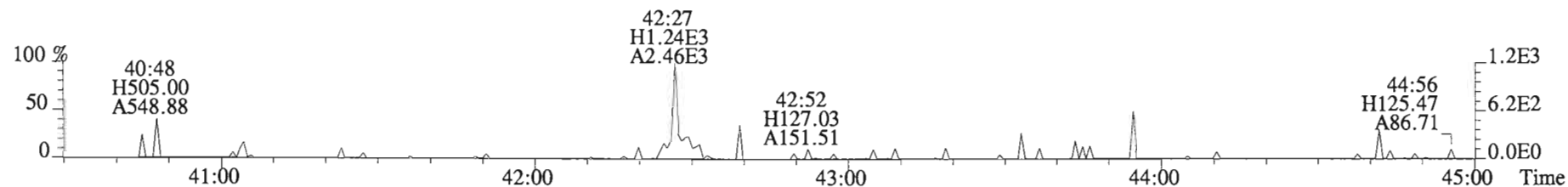
File:150226D1 #1-393 Acq:26-FEB-2015 14:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BLK1 Method Blank 1 Exp:OCDD_DB5
383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



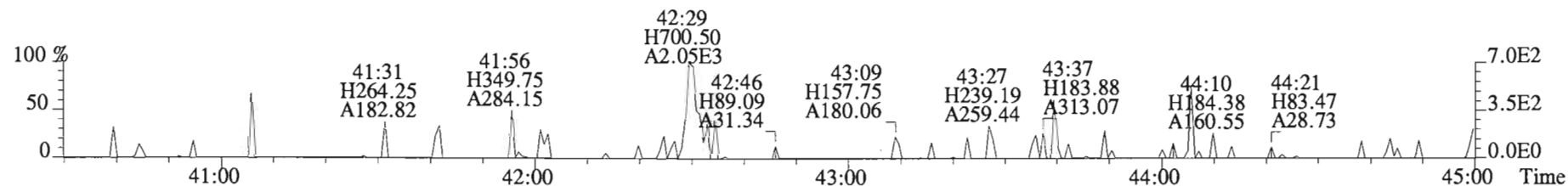
File:150226D1 #1-325 Acq:26-FEB-2015 14:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BLK1 Method Blank 1 Exp:OCDD_DB5
407.7818 S:7 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



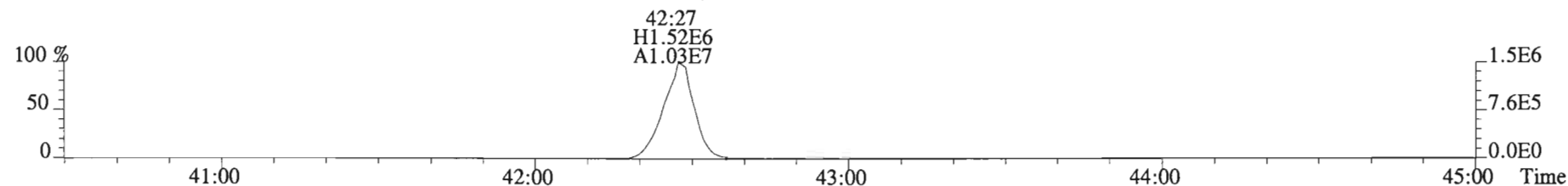
File:150226D1 #1-389 Acq:26-FEB-2015 14:32:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BLK1 Method Blank 1 Exp:OCDD_DB5
441.7428 S:7 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



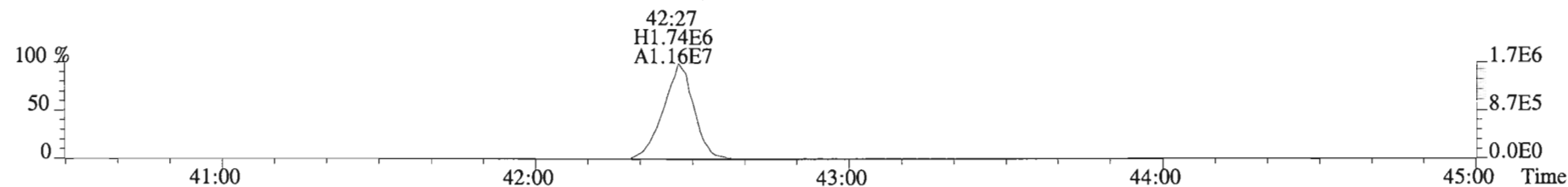
443.7398 S:7 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



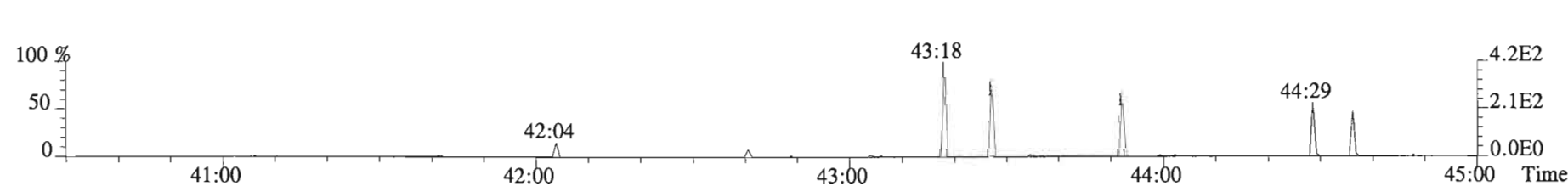
453.7831 S:7 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:7 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:7 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: B5B0083-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 150226D1-4

Ext. Date: 2-20-15 Shift: Day Analysis Date: 26-FEB-15 Time: 12:06:40

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	9.62	6.7 - 15.8 7.3 - 14.6 (2)
1,2,3,7,8-PeCDD	50	50.1	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	51.5	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	53.7	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	53.3	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	52.1	35.0 - 70.0
OCDD	100	105	78.0 - 144.0
2,3,7,8-TCDF	10	10.1	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	50.2	40.0 - 67.0
2,3,4,7,8-PeCDF	50	51.8	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	55.2	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	52.1	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	52.8	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	53.5	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	52.0	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	52.8	39.0 - 69.0
OCDF	100	105	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. 10/94Analyst: msDate: 2/27/15

FORM 8B
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B5B0083-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): AQUEOUS OPR Data Filename: 150226D1-4

Ext. Date: 2-20-15 Shift: Day Analysis Date: 26-FEB-15 Time: 12:06:40

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	72.3	20.0 - 175.0 25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	67.9	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	63.9	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	60.2	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	61.1	21.0 - 193.0
13C-1,2,3,4,6,7,8-HpCDD	100	63.2	26.0 - 166.0
13C-OCDD	200	87.6	26.0 - 397.0
13C-2,3,7,8-TCDF	100	70.0	22.0 - 152.0 26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	69.9	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	77.1	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	68.1	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	77.5	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	64.6	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	62.4	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	58.7	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	58.5	20.0 - 186.0
13C-OCDF	200	93.5	26.0 - 397.0
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	44.4	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: MI

Date: 2/27/15

Client ID: OPR
Lab ID: B5B0083-BS1

Filename: 150226D1 S:4 Acq:26-FEB-15 12:06:40
GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.000

ConCal: ST150226D1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	1.58e+06	0.72 y	1.17	27:00	1.001	9.6216	*	2.5	*	*	Total Tetra-Dioxins	9.89	10.00	*	*	
1,2,3,7,8-PeCDD	6.66e+06	0.61 y	0.91	31:38	1.001	50.080	*	2.5	*	*	Total Penta-Dioxins	50.1	50.5	*	*	
1,2,3,4,7,8-HxCDD	5.40e+06	1.24 y	1.08	34:58	1.000	51.538	*	2.5	*	*	Total Hexa-Dioxins	158	159	*	*	
1,2,3,6,7,8-HxCDD	5.35e+06	1.24 y	1.06	35:05	1.000	53.651	*	2.5	*	*	Total Hepta-Dioxins	52.7	53.1	*	*	
1,2,3,7,8,9-HxCDD	5.46e+06	1.27 y	0.93	35:22	1.000	53.300	*	2.5	*	*	Total Tetra-Furans	10.3	10.5	*	*	
1,2,3,4,6,7,8-HpCDD	5.03e+06	1.05 y	1.10	38:54	1.000	52.113	*	2.5	*	*	Total Penta-Furans	102.77	103.96	*	*	
OCDD	7.04e+06	0.89 y	0.95	42:15	1.000	104.98	*	2.5	*	*	Total Hexa-Furans	214	214	*	*	
											Total Hepta-Furans	105	107	*	*	
2,3,7,8-TCDF	2.24e+06	0.77 y	1.07	26:11	1.001	10.078	*	2.5	*	*						
1,2,3,7,8-PeCDF	1.12e+07	1.64 y	1.07	30:26	1.000	50.239	*	2.5	*	*						
2,3,4,7,8-PeCDF	1.24e+07	1.60 y	1.03	31:20	1.000	51.830	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	1.08e+07	1.27 y	1.38	34:05	1.001	55.175	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	1.16e+07	1.29 y	1.26	34:12	1.001	52.114	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	9.52e+06	1.31 y	1.29	34:48	1.001	52.759	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	7.20e+06	1.31 y	1.19	35:45	1.001	53.535	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	7.50e+06	1.08 y	1.61	37:36	1.000	51.967	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	6.94e+06	1.10 y	1.53	39:27	1.000	52.779	*	2.5	*	*						
OCDF	9.71e+06	0.90 y	1.10	42:28	1.000	105.47	*	2.5	*	*						
											Rec	Qual				
IS	13C-2,3,7,8-TCDD	1.40e+07	0.80 y	1.06	26:59	1.022	72.266				72.3					
IS	13C-1,2,3,7,8-PeCDD	1.46e+07	0.62 y	1.18	31:37	1.197	67.948				67.9					
IS	13C-1,2,3,4,7,8-HxCDD	9.72e+06	1.29 y	0.72	34:57	1.014	63.913				63.9					
IS	13C-1,2,3,6,7,8-HxCDD	9.37e+06	1.23 y	0.74	35:04	1.017	60.221				60.2					
IS	13C-1,2,3,7,8,9-HxCDD	1.10e+07	1.26 y	0.85	35:22	1.026	61.051				61.1					
IS	13C-1,2,3,4,6,7,8-HpCDD	8.73e+06	1.06 y	0.65	38:54	1.128	63.242				63.2					
IS	13C-OCDD	1.41e+07	0.89 y	0.76	42:14	1.225	87.574				43.8					
IS	13C-2,3,7,8-TCDF	2.07e+07	0.76 y	0.92	26:10	0.991	70.020				70.0					
IS	13C-1,2,3,7,8-PeCDF	2.08e+07	1.56 y	0.92	30:25	1.152	69.898				69.9					
IS	13C-2,3,4,7,8-PeCDF	2.32e+07	1.58 y	0.93	31:19	1.186	77.145				77.1					
IS	13C-1,2,3,4,7,8-HxCDF	1.41e+07	0.51 y	0.98	34:04	0.988	68.127				68.1					
IS	13C-1,2,3,6,7,8-HxCDF	1.77e+07	0.51 y	1.08	34:11	0.992	77.483				77.5					
IS	13C-2,3,4,6,7,8-HxCDF	1.40e+07	0.50 y	1.03	34:47	1.009	64.594				64.6					
IS	13C-1,2,3,7,8,9-HxCDF	1.13e+07	0.52 y	0.86	35:44	1.036	62.392				62.4					
IS	13C-1,2,3,4,6,7,8-HpCDF	8.95e+06	0.44 y	0.72	37:35	1.090	58.708				58.7					
IS	13C-1,2,3,4,7,8,9-HpCDF	8.62e+06	0.43 y	0.70	39:26	1.144	58.540				58.5					
IS	13C-OCDF	1.68e+07	0.92 y	0.85	42:27	1.231	93.521				46.8					
C/Up	37C1-2,3,7,8-TCDD	9.08e+06		1.12	27:00	1.023	44.439				111					
											Integrations					
											by					
RS/RT	13C-1,2,3,4-TCDD	1.83e+07	0.80 y	1.00	26:24	*	100.00				Analyst: <u>MJ</u>					
RS	13C-1,2,3,4-TCDF	3.23e+07	0.78 y	1.00	24:54	*	100.00				Analyst: <u>[Signature]</u>					
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.11e+07	0.51 y	1.00	34:29	*	100.00				Date: <u>2/27/15</u>					
											Date: <u>2/27/15</u>					

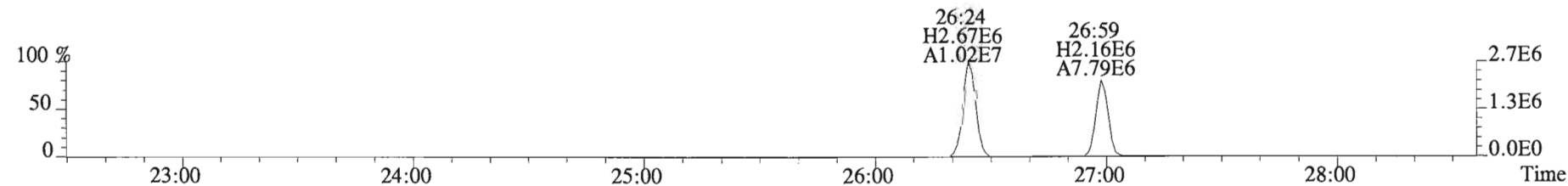
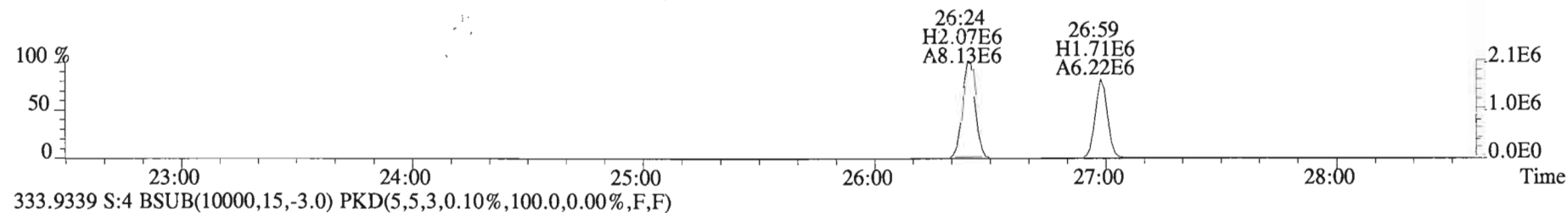
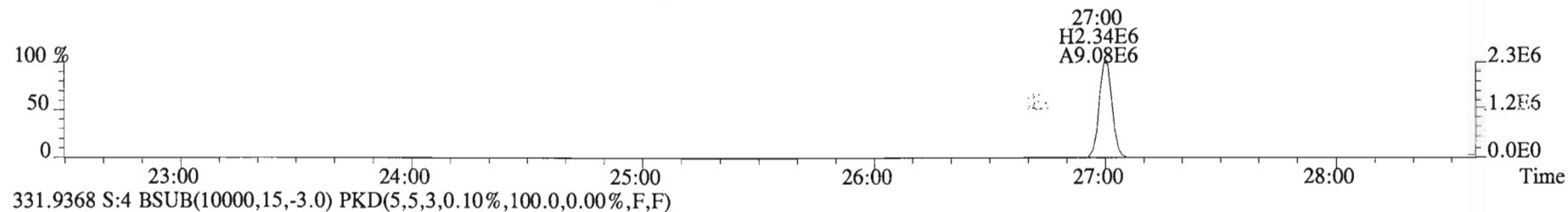
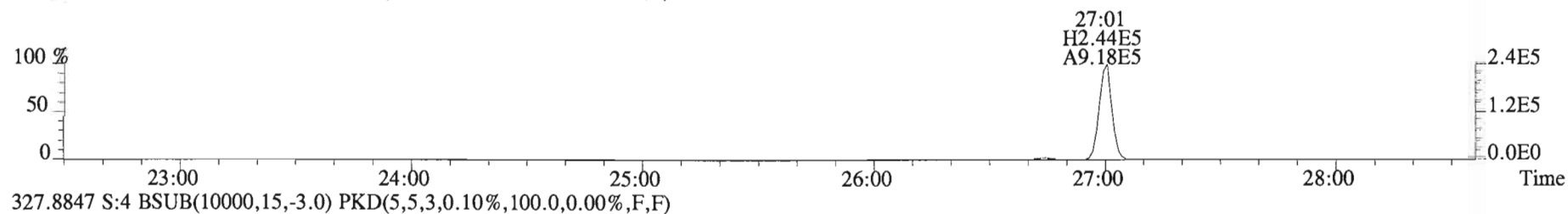
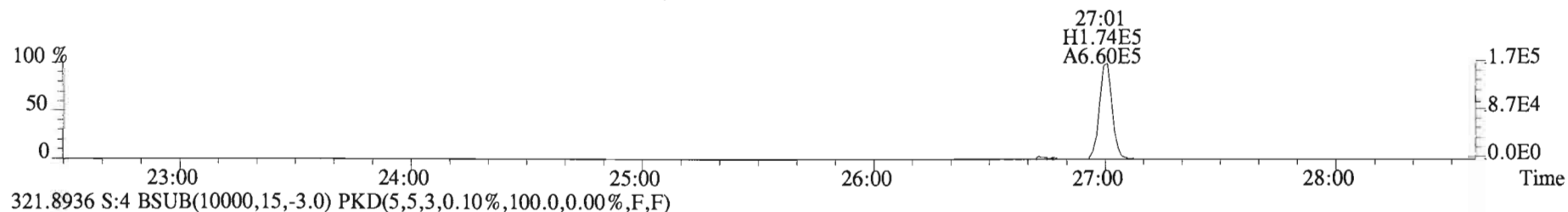
Client ID: OPR
Lab ID: B5B0083-BS1

Filename: 150226D1 S:4 Acq:26-FEB-15 12:06:40
GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.000

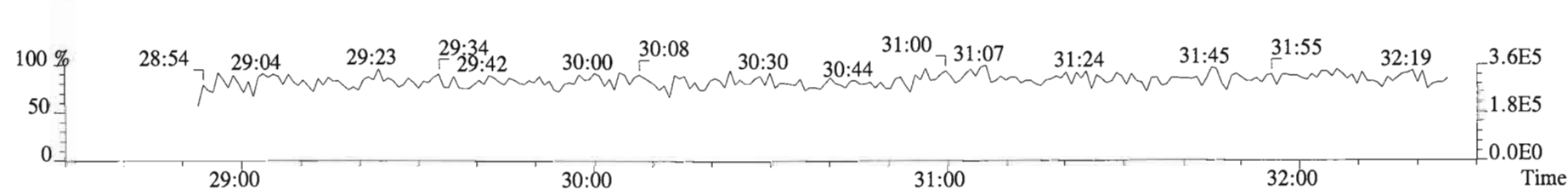
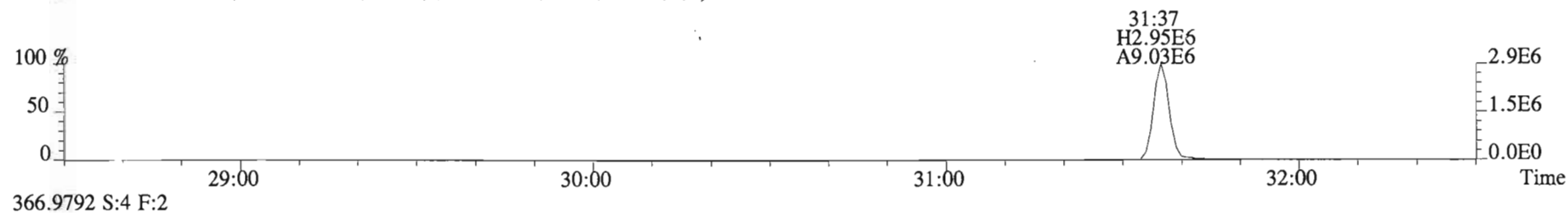
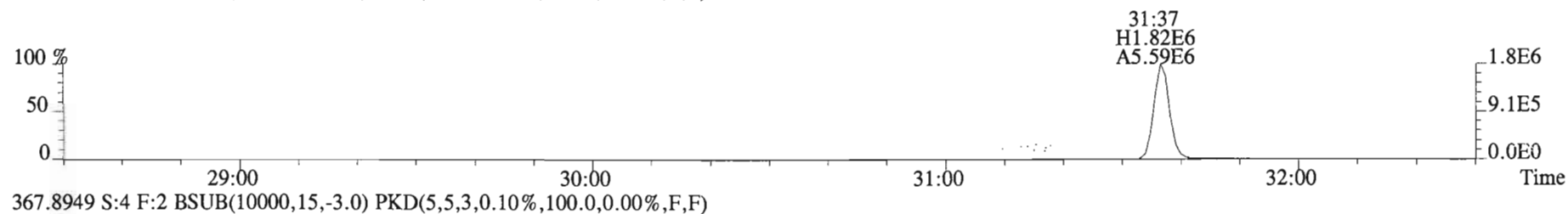
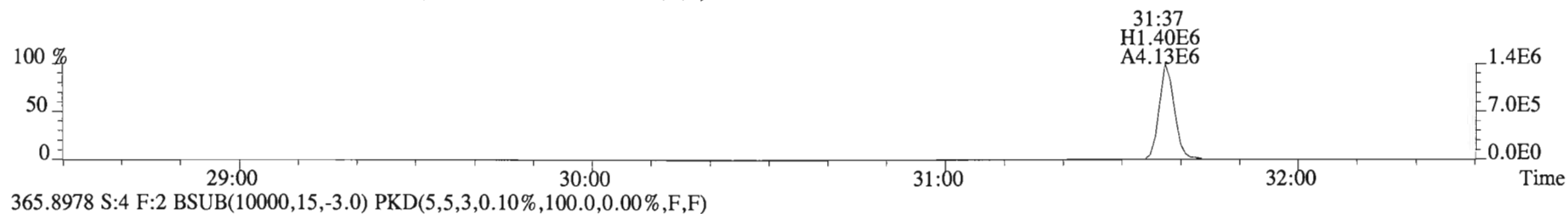
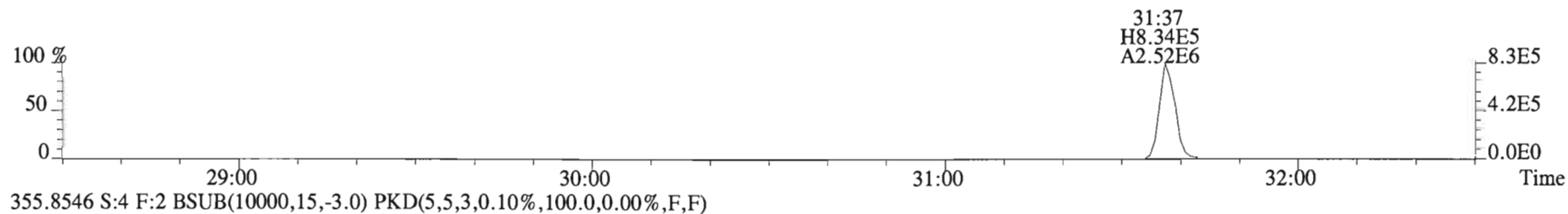
ConCal: ST150226D1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	1.58e+06	0.72 y	1.17	27:00	1.001	192.43		*	2.5	*	Total Tetra-Dioxins	198	200	*	*	
1,2,3,7,8-PeCDD	6.66e+06	0.61 y	0.91	31:38	1.001	1001.6		*	2.5	*	Total Penta-Dioxins	1000	1010	*	*	
1,2,3,4,7,8-HxCDD	5.40e+06	1.24 y	1.08	34:58	1.000	1030.8		*	2.5	*	Total Hexa-Dioxins	3170	3190	*	*	
1,2,3,6,7,8-HxCDD	5.35e+06	1.24 y	1.06	35:05	1.000	1073.0		*	2.5	*	Total Hepta-Dioxins	1050	1060	*	*	
1,2,3,7,8,9-HxCDD	5.46e+06	1.27 y	0.93	35:22	1.000	1066.0		*	2.5	*	Total Tetra-Furans	206	210	*	*	
1,2,3,4,6,7,8-HpCDD	5.03e+06	1.05 y	1.10	38:54	1.000	1042.3		*	2.5	*	Total Penta-Furans	2055.4	2079.3	*	*	
OCDD	7.04e+06	0.89 y	0.95	42:15	1.000	2099.6		*	2.5	*	Total Hexa-Furans	4280	4290	*	*	
											Total Hepta-Furans	2110	2140	*	*	
2,3,7,8-TCDF	2.24e+06	0.77 y	1.07	26:11	1.001	201.56		*	2.5	*						
1,2,3,7,8-PeCDF	1.12e+07	1.64 y	1.07	30:26	1.000	1004.8		*	2.5	*						
2,3,4,7,8-PeCDF	1.24e+07	1.60 y	1.03	31:20	1.000	1036.6		*	2.5	*						
1,2,3,4,7,8-HxCDF	1.08e+07	1.27 y	1.38	34:05	1.001	1103.5		*	2.5	*						
1,2,3,6,7,8-HxCDF	1.16e+07	1.29 y	1.26	34:12	1.001	1042.3		*	2.5	*						
2,3,4,6,7,8-HxCDF	9.52e+06	1.31 y	1.29	34:48	1.001	1055.2		*	2.5	*						
1,2,3,7,8,9-HxCDF	7.20e+06	1.31 y	1.19	35:45	1.001	1070.7		*	2.5	*						
1,2,3,4,6,7,8-HpCDF	7.50e+06	1.08 y	1.61	37:36	1.000	1039.3		*	2.5	*						
1,2,3,4,7,8,9-HpCDF	6.94e+06	1.10 y	1.53	39:27	1.000	1055.6		*	2.5	*						
OCDF	9.71e+06	0.90 y	1.10	42:28	1.000	2109.3		*	2.5	*						
											Rec	Qual				
IS 13C-2,3,7,8-TCDD	1.40e+07	0.80 y	1.06	26:59	1.022	1445.3					72.3					
IS 13C-1,2,3,7,8-PeCDD	1.46e+07	0.62 y	1.18	31:37	1.197	1359.0					67.9					
IS 13C-1,2,3,4,7,8-HxCDD	9.72e+06	1.29 y	0.72	34:57	1.014	1278.3					63.9					
IS 13C-1,2,3,6,7,8-HxCDD	9.37e+06	1.23 y	0.74	35:04	1.017	1204.4					60.2					
IS 13C-1,2,3,7,8,9-HxCDD	1.10e+07	1.26 y	0.85	35:22	1.026	1221.0					61.1					
IS 13C-1,2,3,4,6,7,8-HpCDD	8.73e+06	1.06 y	0.65	38:54	1.128	1264.8					63.2					
IS 13C-OCDD	1.41e+07	0.89 y	0.76	42:14	1.225	1751.5					43.8					
IS 13C-2,3,7,8-TCDF	2.07e+07	0.76 y	0.92	26:10	0.991	1400.4					70.0					
IS 13C-1,2,3,7,8-PeCDF	2.08e+07	1.56 y	0.92	30:25	1.152	1398.0					69.9					
IS 13C-2,3,4,7,8-PeCDF	2.32e+07	1.58 y	0.93	31:19	1.186	1542.9					77.1					
IS 13C-1,2,3,4,7,8-HxCDF	1.41e+07	0.51 y	0.98	34:04	0.988	1362.5					68.1					
IS 13C-1,2,3,6,7,8-HxCDF	1.77e+07	0.51 y	1.08	34:11	0.992	1549.7					77.5					
IS 13C-2,3,4,6,7,8-HxCDF	1.40e+07	0.50 y	1.03	34:47	1.009	1291.9					64.6					
IS 13C-1,2,3,7,8,9-HxCDF	1.13e+07	0.52 y	0.86	35:44	1.036	1247.8					62.4					
IS 13C-1,2,3,4,6,7,8-HpCDF	8.95e+06	0.44 y	0.72	37:35	1.090	1174.2					58.7					
IS 13C-1,2,3,4,7,8,9-HpCDF	8.62e+06	0.43 y	0.70	39:26	1.144	1170.8					58.5					
IS 13C-OCDF	1.68e+07	0.92 y	0.85	42:27	1.231	1870.4					46.8					
C/Up 37Cl-2,3,7,8-TCDD	9.08e+06		1.12	27:00	1.023	888.79					111					
											Integrations		Reviewed			
											by		by			
RS/RT 13C-1,2,3,4-TCDD	1.83e+07	0.80 y	1.00	26:24	*	2000.0					Analyst: <u>my</u>		Analyst: _____			
RS 13C-1,2,3,4-TCDF	3.23e+07	0.78 y	1.00	24:54	*	2000.0										
RS/RT 13C-1,2,3,4,6,9-HxCDF	2.11e+07	0.51 y	1.00	34:29	*	2000.0										
											Date: <u>2/15/15</u>		Date: _____			

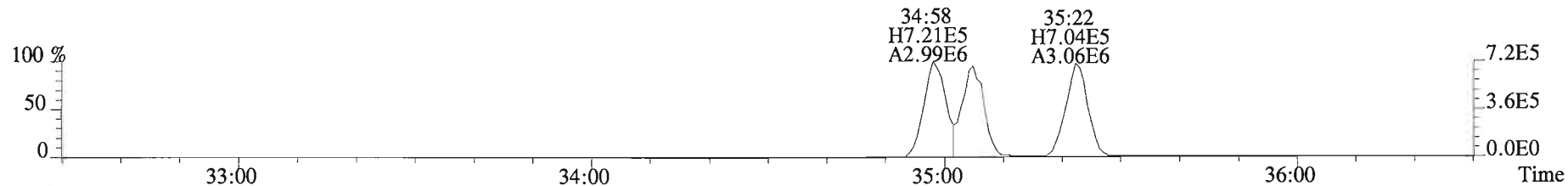
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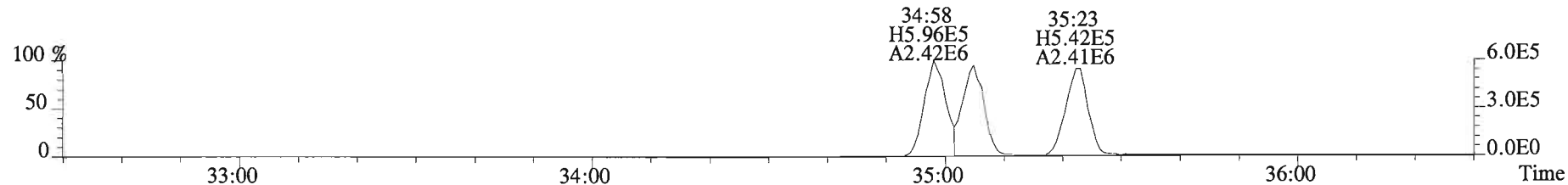
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Sample#4 File Text: Vista Analytical Laboratory VG-7 Text:B5B0083-BS1 OPR 1 Exp:OCDD_DB5
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



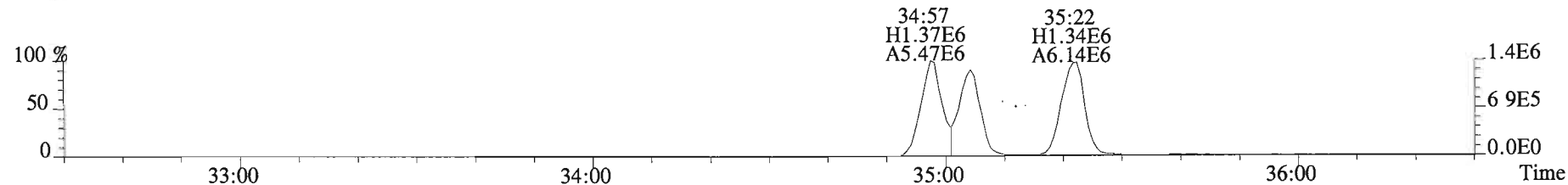
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Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BS1 OPR 1 Exp:OCDD_DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



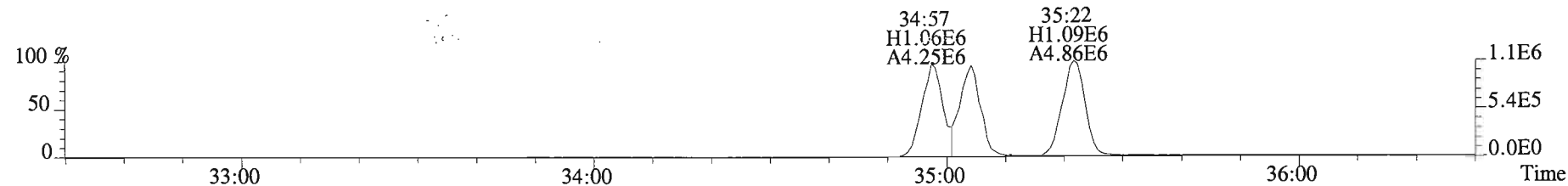
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



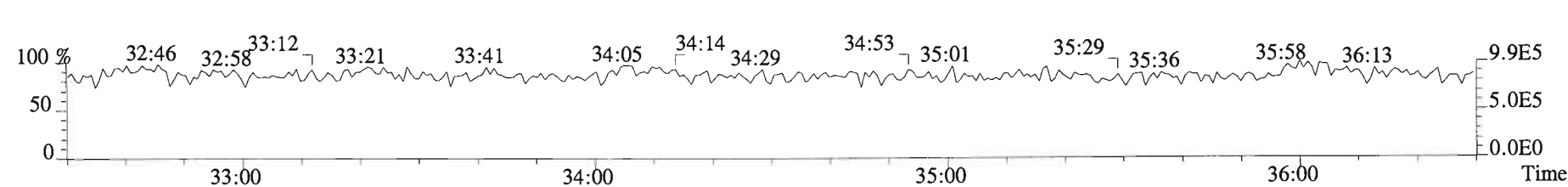
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



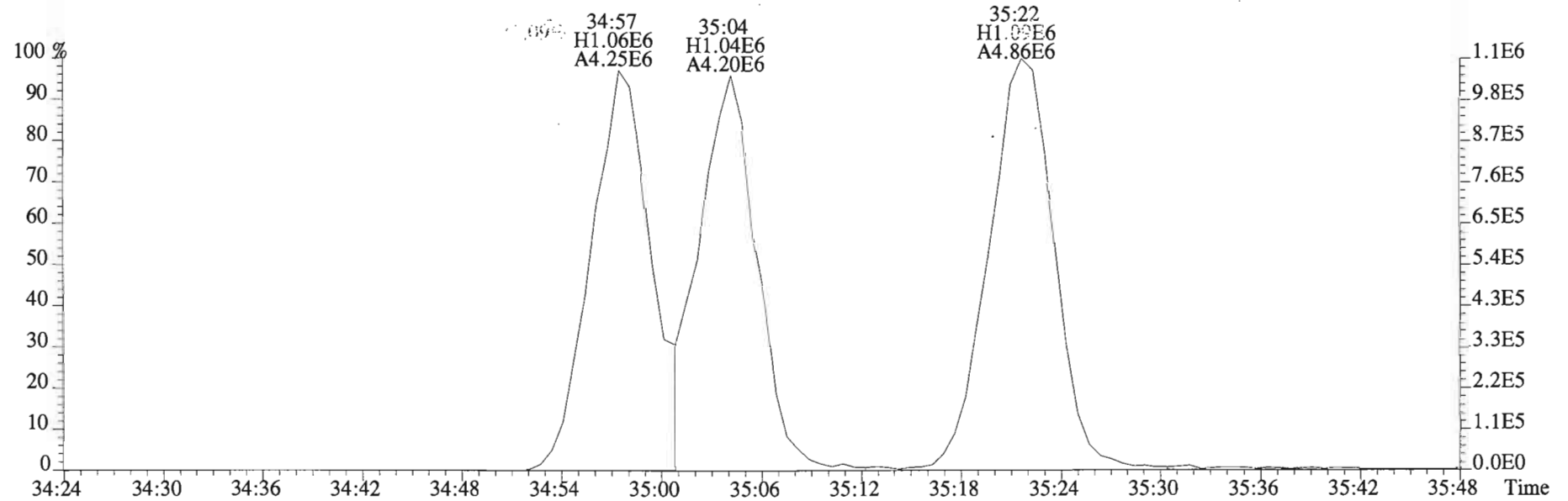
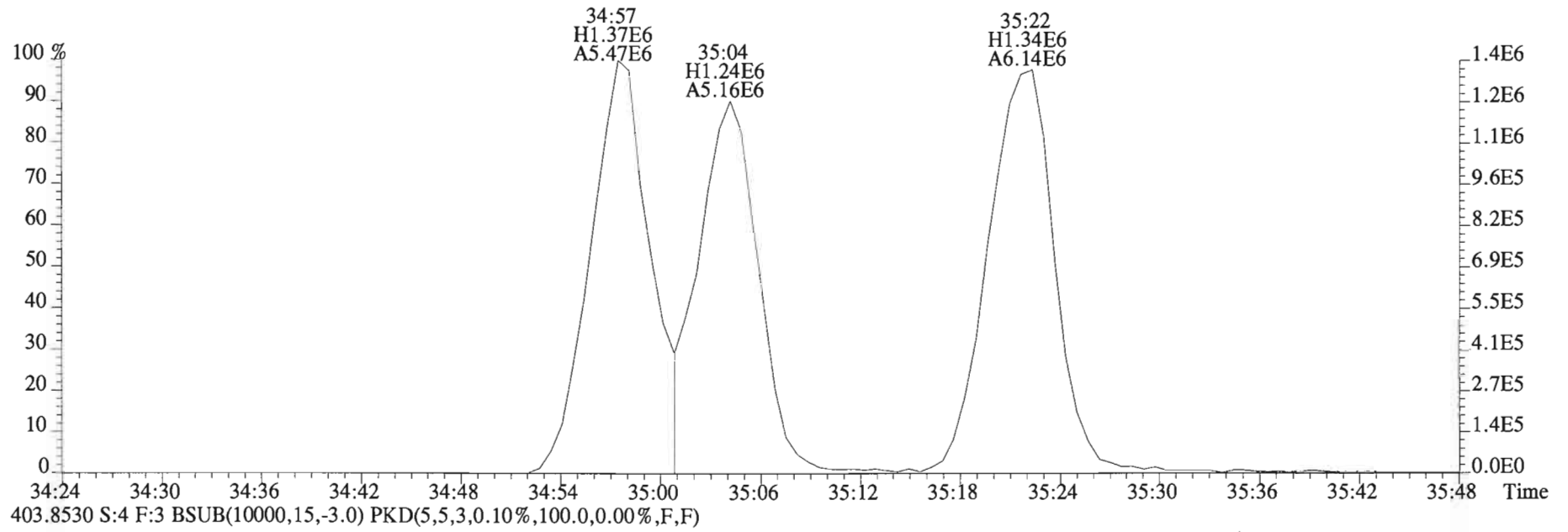
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



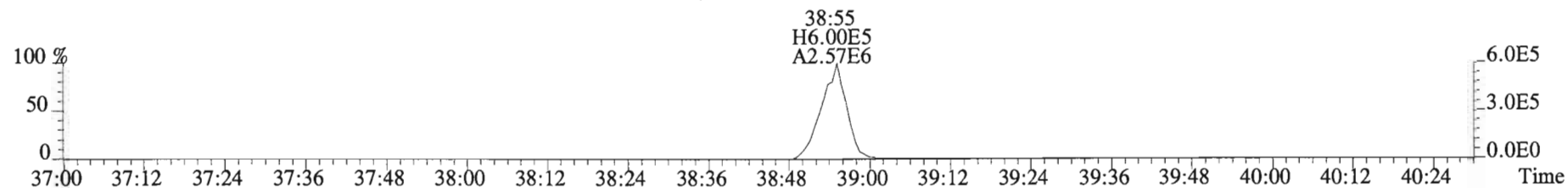
380.9760 S:4 F:3



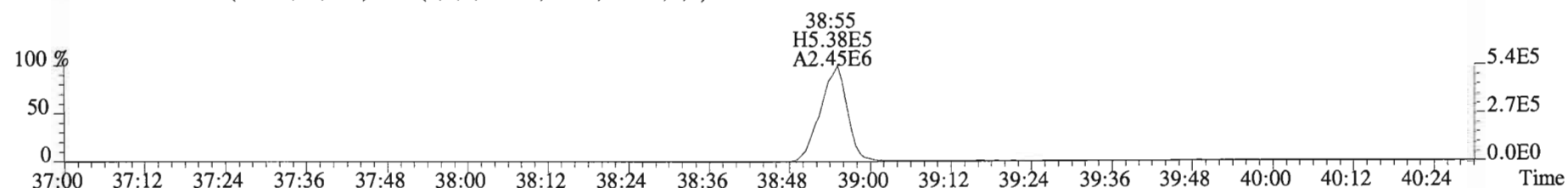
File:150226D1 #1-393 Acq:26-FEB-2015 12:06:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BS1 OPR 1 Exp:OCDD_DB5
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



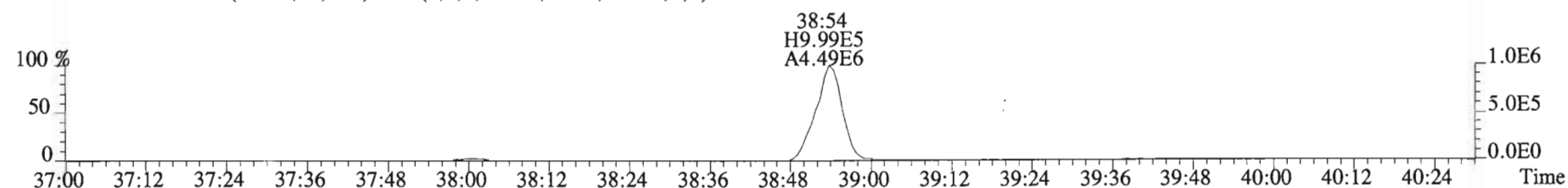
File:150226D1 #1-326 Acq:26-FEB-2015 12:06:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BS1 OPR 1 Exp:OCDD_DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



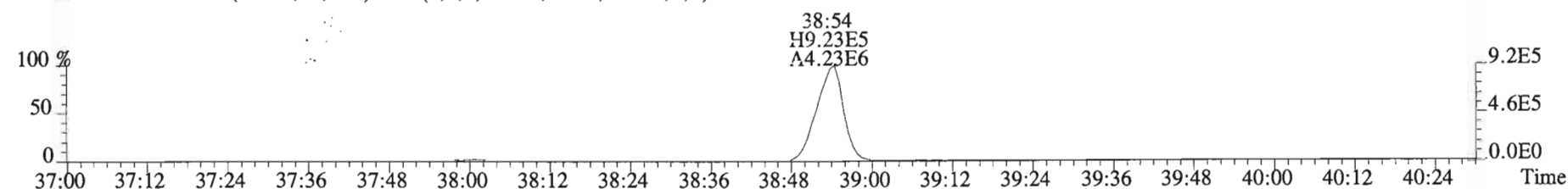
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



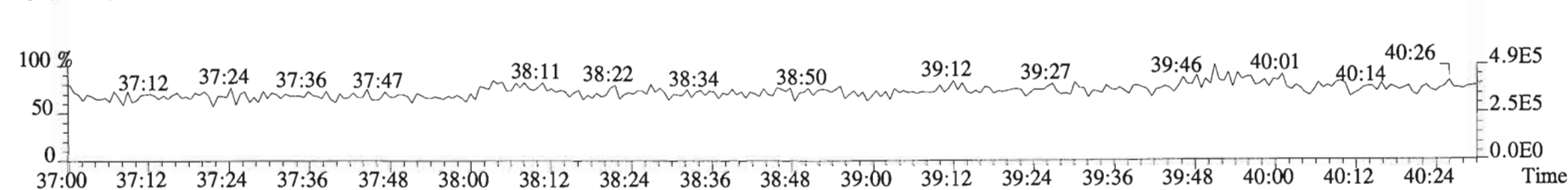
435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



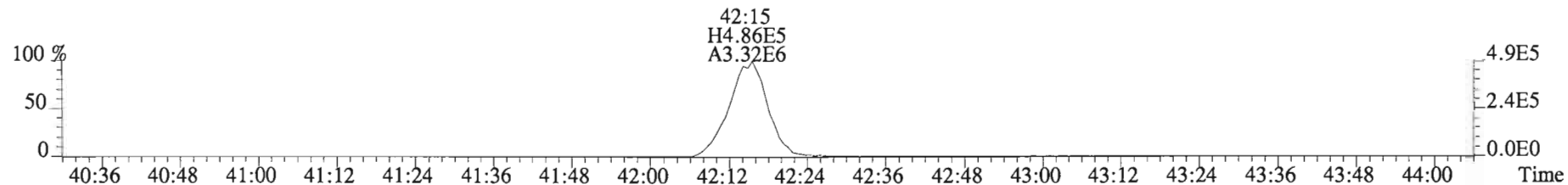
437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



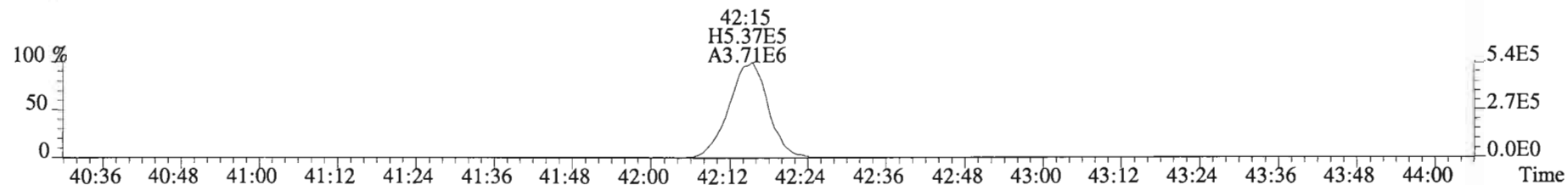
430.9728 S:4 F:4



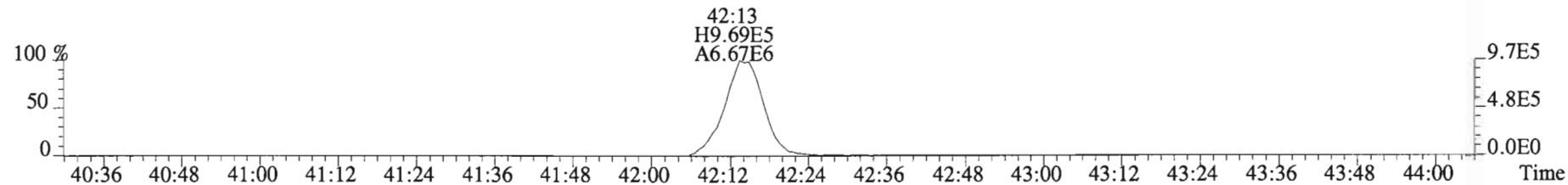
File:150226D1 #1-388 Acq:26-FEB-2015 12:06:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BS1 OPR 1 Exp:OCDD_DB5
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



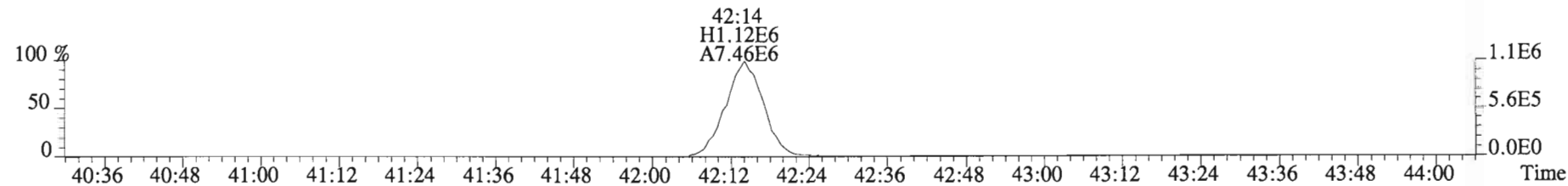
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



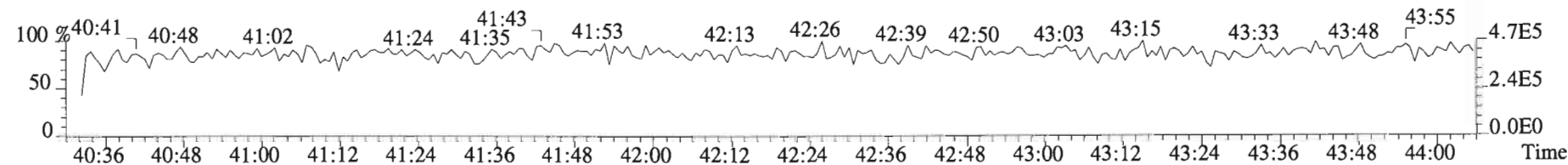
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



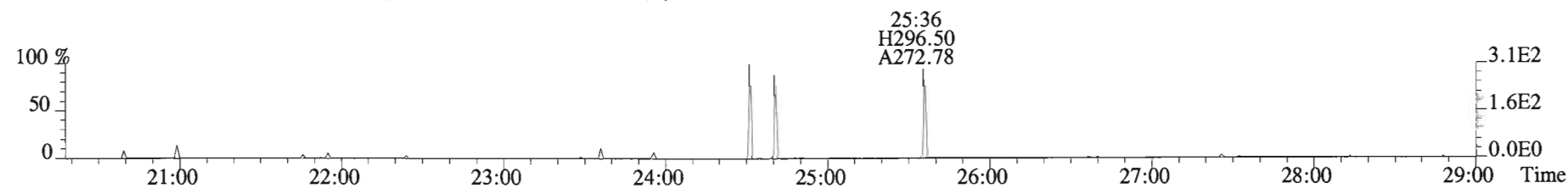
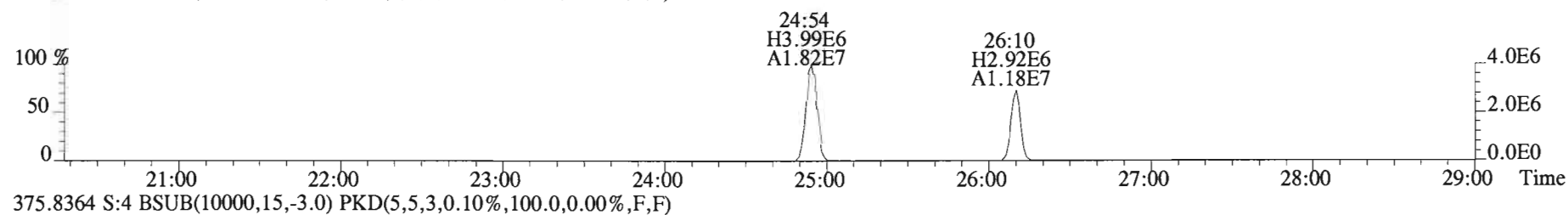
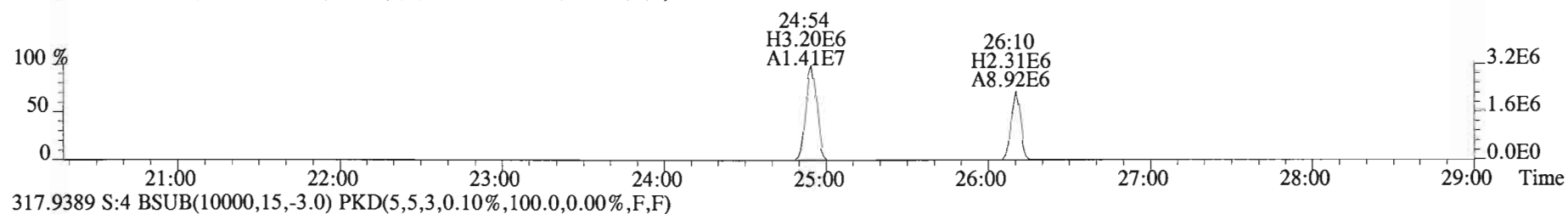
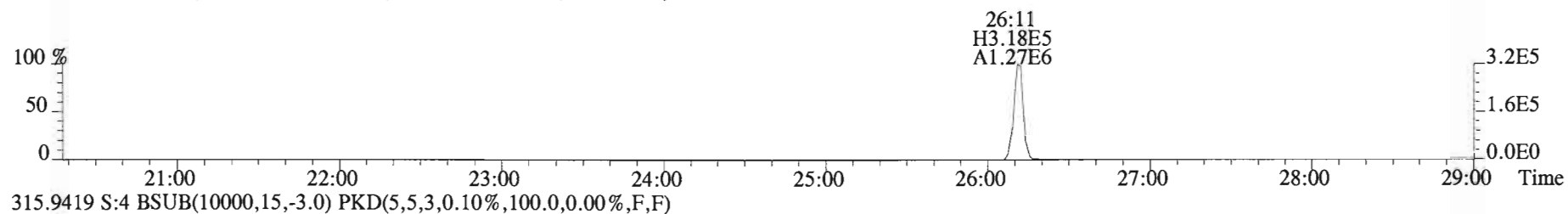
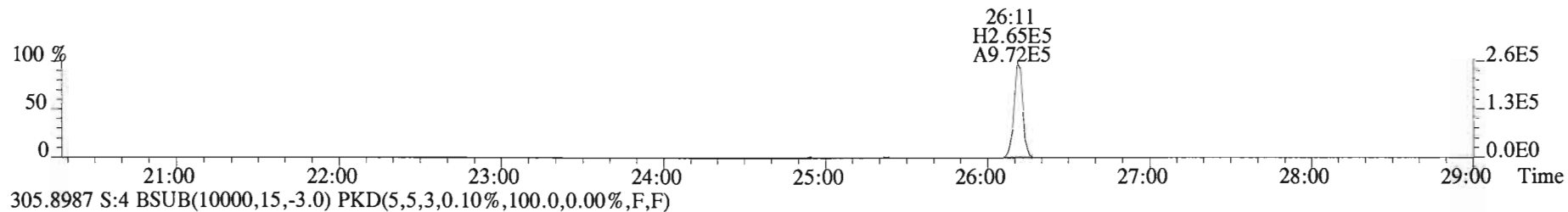
471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



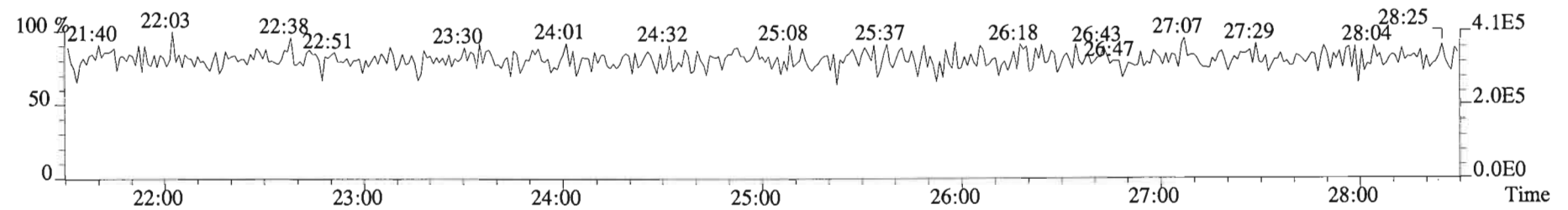
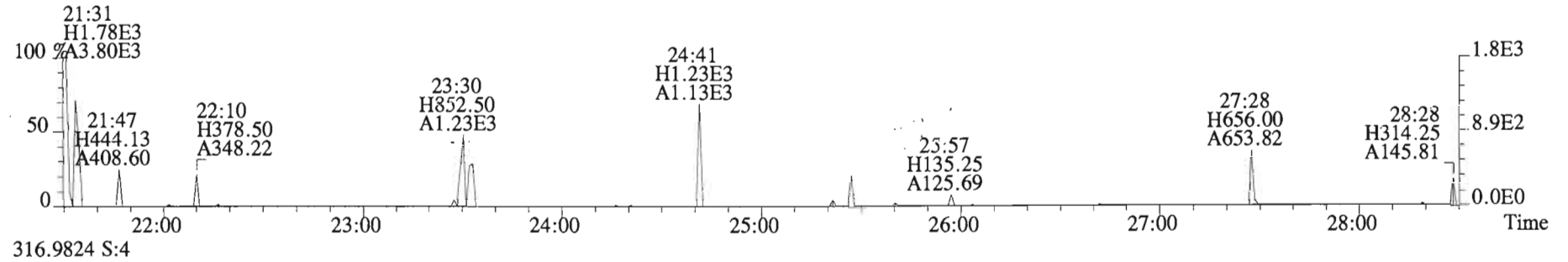
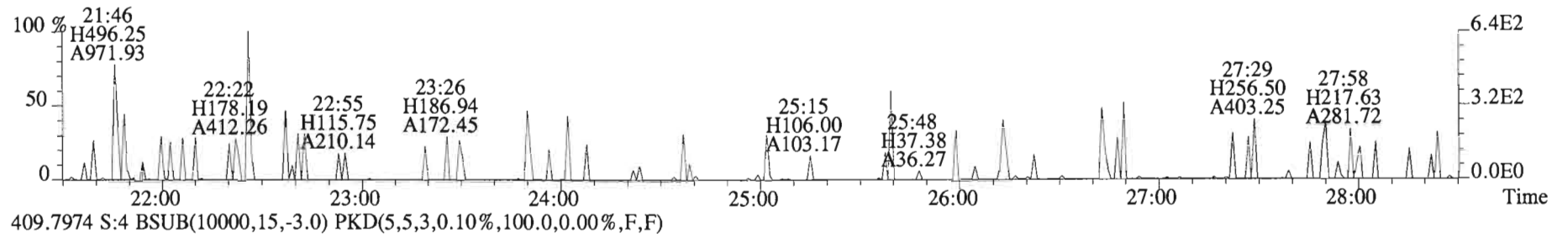
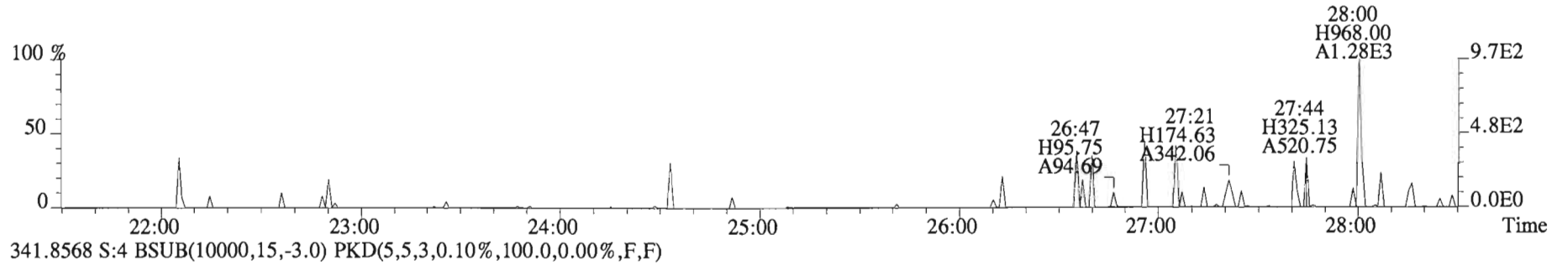
454.9728 S:4 F:5



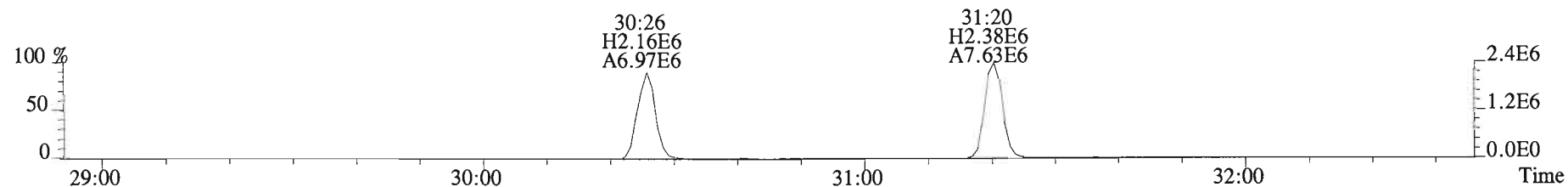
File:150226D1 #1-552 Acq:26-FEB-2015 12:06:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BS1 OPR 1 Exp:OCDD_DB5
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



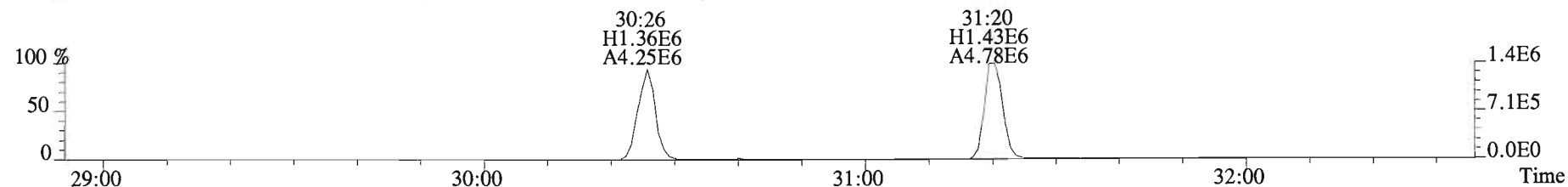
File:150226D1 #1-552 Acq:26-FEB-2015 12:06:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BS1 OPR 1 Exp:OCDD_DB5
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



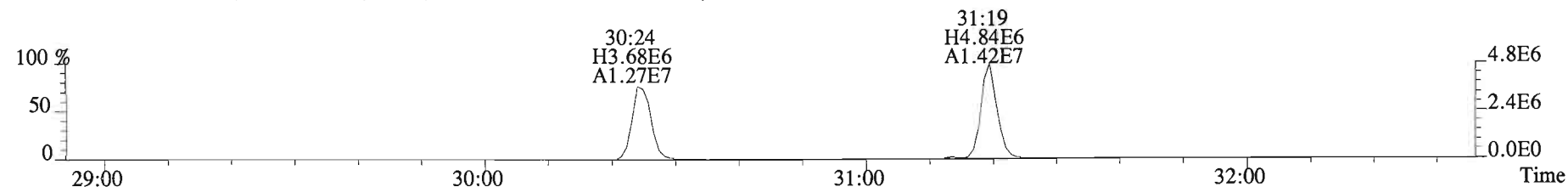
File:150226D1 #1-250 Acq:26-FEB-2015 12:06:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BS1 OPR 1 Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



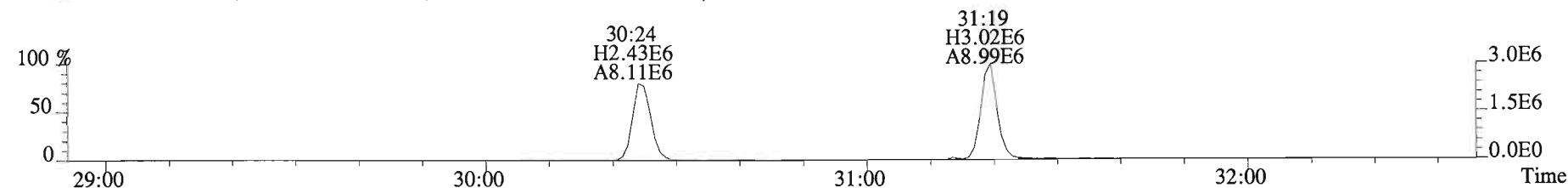
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



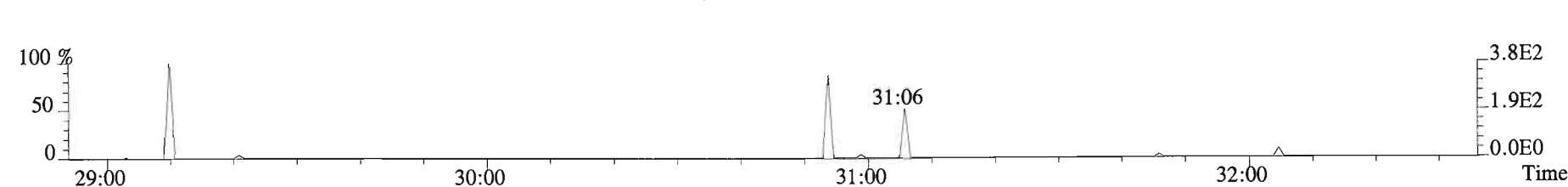
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



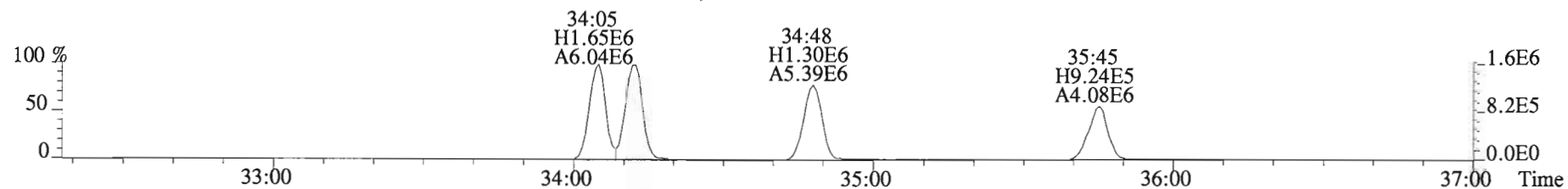
353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



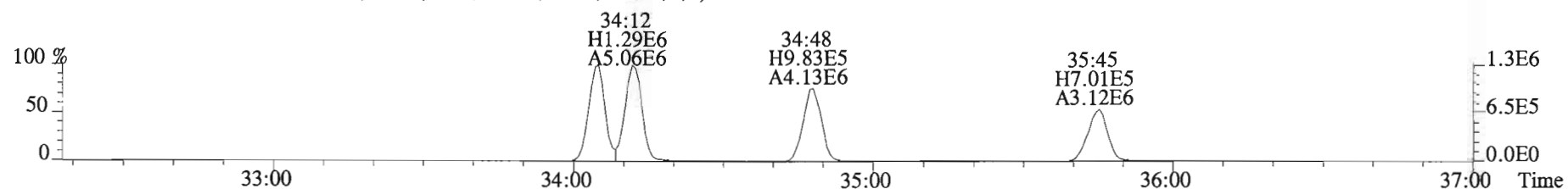
409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



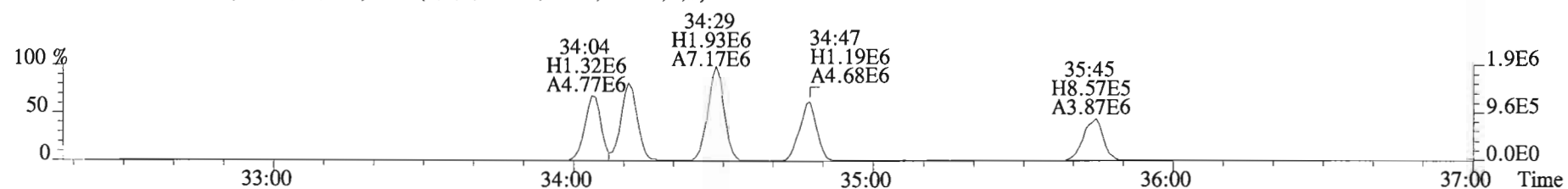
File:150226D1 #1-393 Acq:26-FEB-2015 12:06:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text: Vista Analytical Laboratory VG-7 Text:B5B0083-BS1 OPR 1 Exp:OCDD_DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



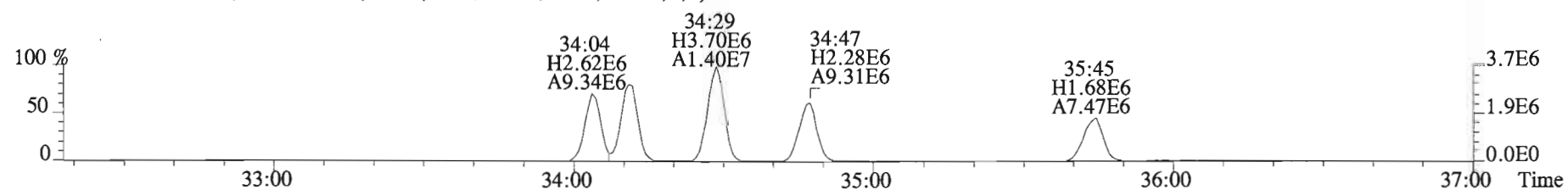
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



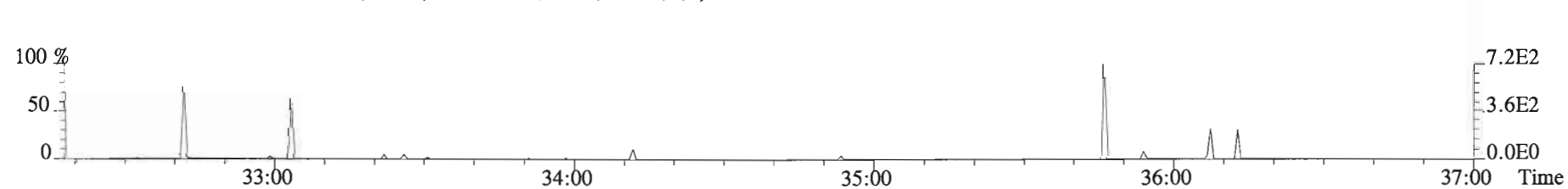
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



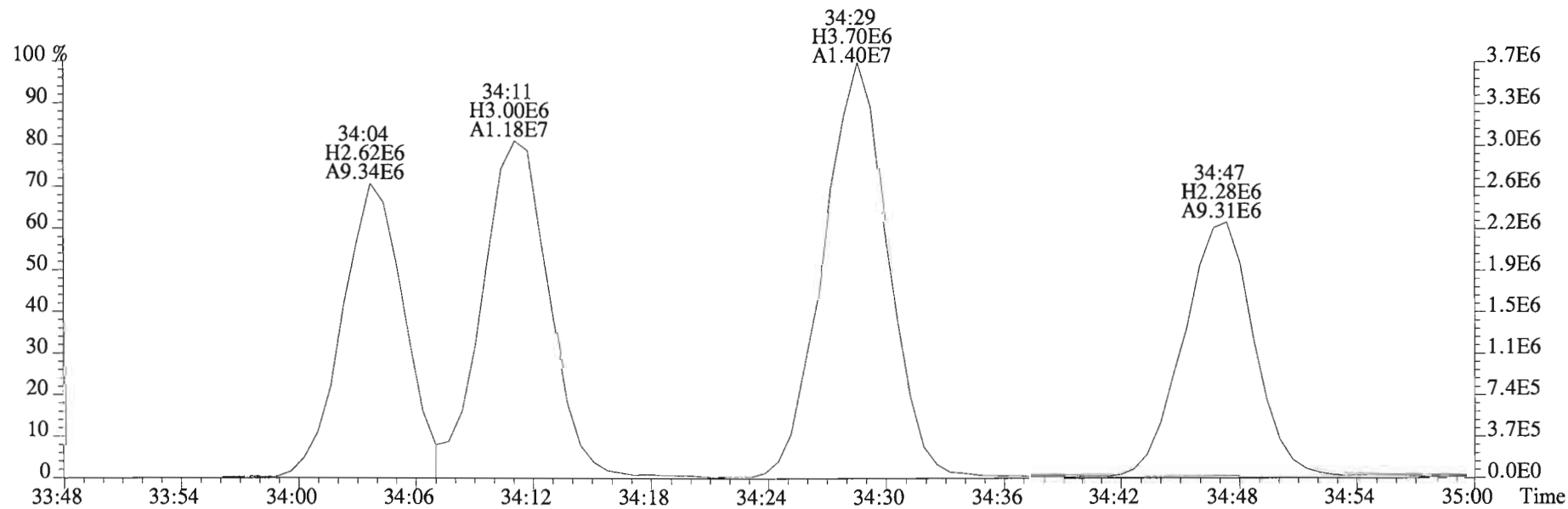
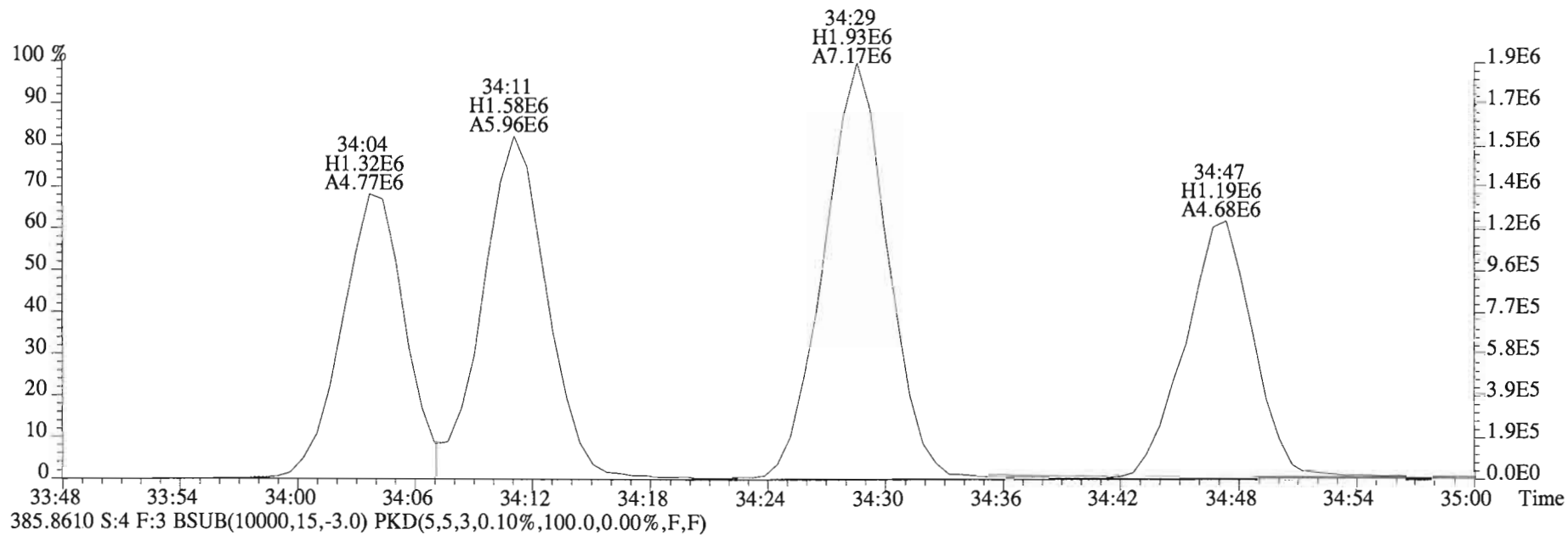
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



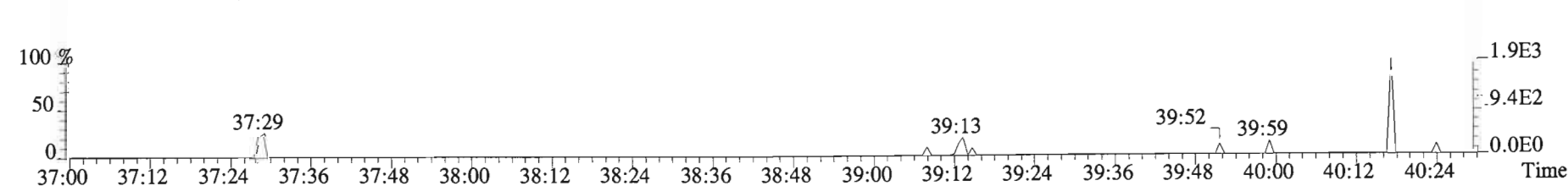
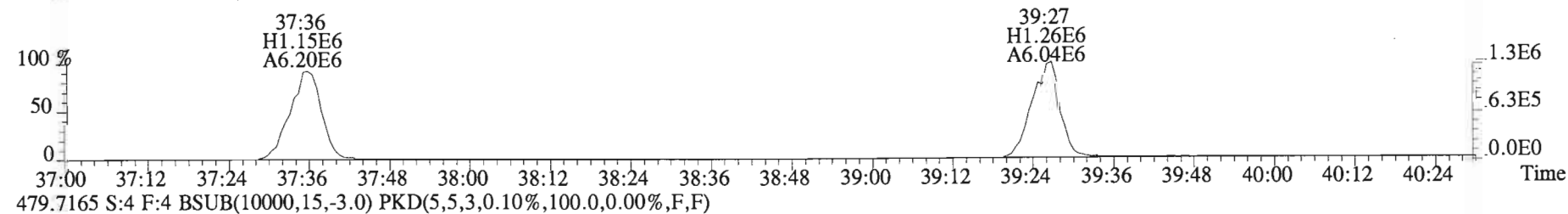
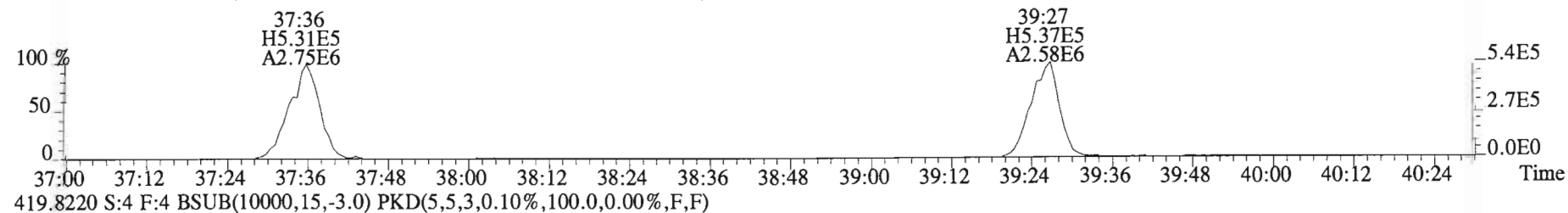
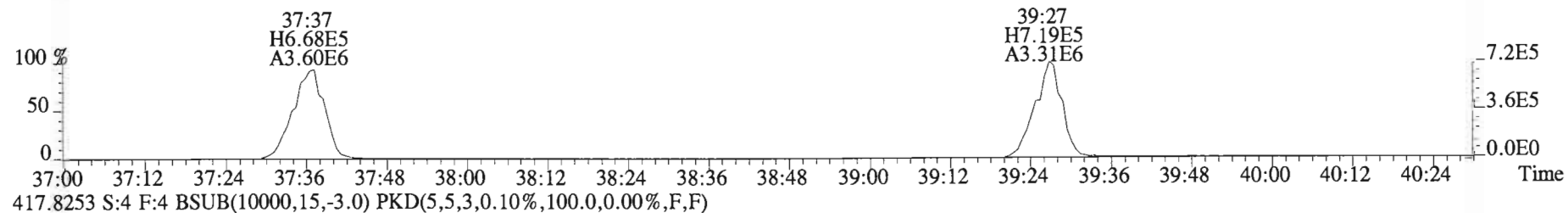
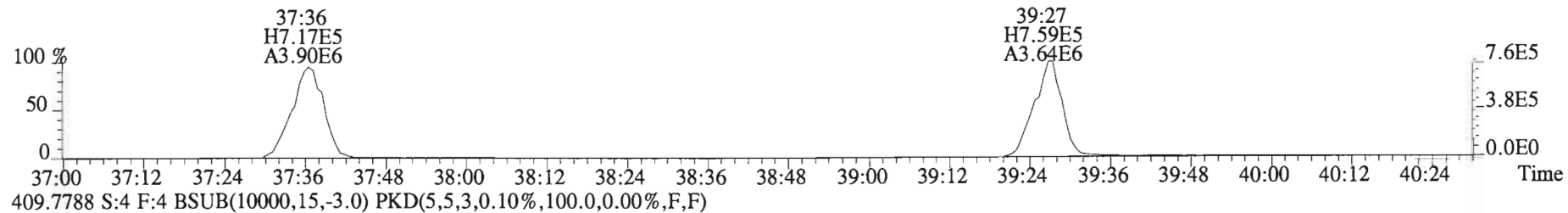
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



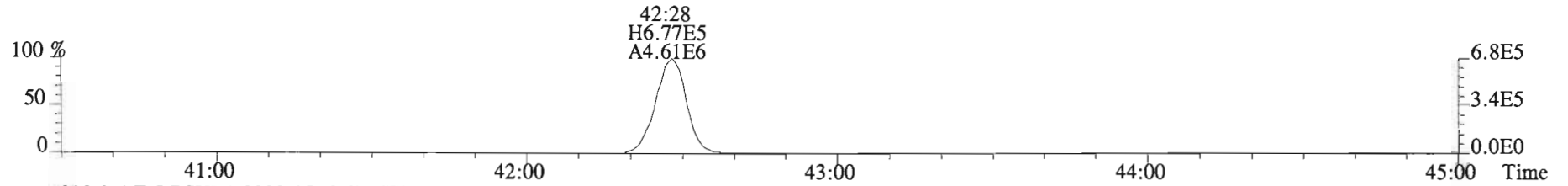
File:150226D1 #1-393 Acq:26-FEB-2015 12:06:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text: Vista Analytical Laboratory VG-7 Text:B5B0083-BS1 OPR 1 Exp:OCDD_DB5
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



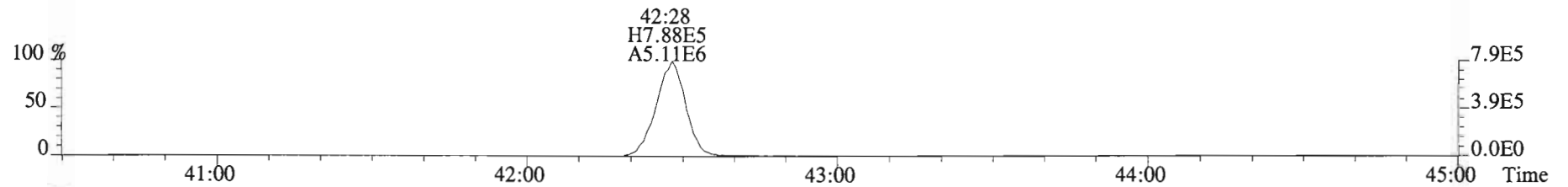
File:150226D1 #1-326 Acq:26-FEB-2015 12:06:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BS1 OPR 1 Exp:OCDD_DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



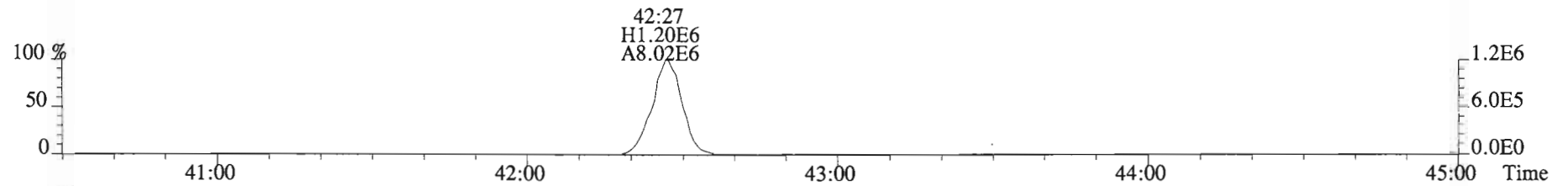
File:150226D1 #1-388 Acq:26-FEB-2015 12:06:40 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:B5B0083-BS1 OPR 1 Exp:OCDD_DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



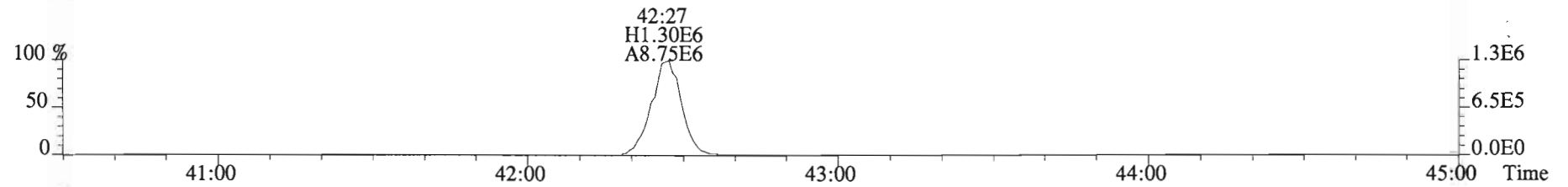
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



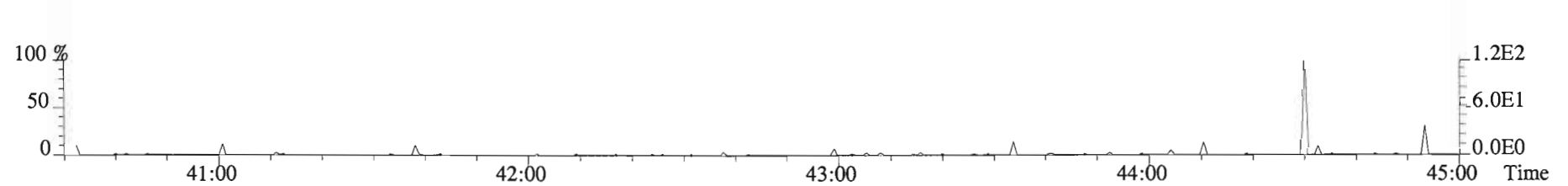
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)



Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	*	* n	1.17	NotF η	*	*		695	2.5	1.50	Total Tetra-Dioxins	*	3.17		*	*
1,2,3,7,8-PeCDD	2.20e+04	0.58 y	0.91	31:37	1.000	3.2332		*	2.5	*	Total Penta-Dioxins	18.0	23.3		*	*
1,2,3,4,7,8-HxCDD	3.88e+04	1.38 y	1.08	34:57	1.000	7.8749		*	2.5	*	Total Hexa-Dioxins	529	529		*	*
1,2,3,6,7,8-HxCDD	2.13e+05	1.24 y	1.06	35:04	1.000	46.013		*	2.5	*	Total Hepta-Dioxins	5660	5660		*	*
1,2,3,7,8,9-HxCDD	8.19e+04	1.20 y	0.93	35:23	1.001	16.941		*	2.5	*	Total Tetra-Furans	35.0	41.3		*	*
1,2,3,4,6,7,8-HpCDD	7.33e+06	1.04 y	1.10	38:54	1.000	1572.5		*	2.5	*	Total Penta-Furans	67.523	70.737		*	*
OCDD	5.92e+07	0.88 y	0.95	42:15	1.000	17056		*	2.5	*	Total Hexa-Furans	275	275		*	*
											Total Hepta-Furans	1080	1080		*	*
2,3,7,8-TCDF	2.83e+04	0.71 y	1.07	26:11	1.001	2.6689		*	2.5	*						
1,2,3,7,8-PeCDF	2.50e+04	1.25 n	1.07	30:25	1.001	2.3389		*	2.5	*						
2,3,4,7,8-PeCDF	4.07e+04	1.45 y	1.03	31:19	1.000	3.4849		*	2.5	*						
1,2,3,4,7,8-HxCDF	1.23e+05	1.26 y	1.38	34:04	1.000	14.065		*	2.5	*						
1,2,3,6,7,8-HxCDF	6.41e+04	1.29 y	1.26	34:12	1.001	6.1784		*	2.5	*						
2,3,4,6,7,8-HxCDF	9.61e+04	1.30 y	1.29	34:47	1.000	11.308		*	2.5	*						
1,2,3,7,8,9-HxCDF	*	* n	1.19	NotF η	*	*		2880	1.0	3.07						
1,2,3,4,6,7,8-HpCDF	1.67e+06	1.13 y	1.61	37:36	1.000	238.17		*	2.5	*						
1,2,3,4,7,8,9-HpCDF	1.54e+05	1.06 y	1.53	39:27	1.000	22.541		*	2.5	*						
OCDF	6.61e+06	0.90 y	1.10	42:28	1.000	1401.6		*	2.5	*						
											Rec	Qual				
IS	13C-2,3,7,8-TCDD	1.31e+07	0.81 y	1.06	26:59	1.022	1337.3				67.2					
IS	13C-1,2,3,7,8-PeCDD	1.49e+07	0.63 y	1.18	31:36	1.197	1370.8				68.9					
IS	13C-1,2,3,4,7,8-HxCDD	9.10e+06	1.23 y	0.72	34:57	1.014	1103.8				55.5					
IS	13C-1,2,3,6,7,8-HxCDD	8.64e+06	1.25 y	0.74	35:04	1.017	1024.8				51.5					
IS	13C-1,2,3,7,8,9-HxCDD	1.03e+07	1.24 y	0.85	35:22	1.026	1056.7				53.1					
IS	13C-1,2,3,4,6,7,8-HpCDD	8.39e+06	1.10 y	0.65	38:54	1.128	1122.0				56.4					
IS	13C-OCDD	1.46e+07	0.86 y	0.76	42:15	1.225	1664.1				41.8					
IS	13C-2,3,7,8-TCDF	1.97e+07	0.78 y	0.92	26:10	0.991	1322.5				66.5					
IS	13C-1,2,3,7,8-PeCDF	1.98e+07	1.57 y	0.92	30:24	1.151	1320.4				66.4					
IS	13C-2,3,4,7,8-PeCDF	2.25e+07	1.62 y	0.93	31:19	1.186	1489.9				74.9					
IS	13C-1,2,3,4,7,8-HxCDF	1.26e+07	0.52 y	0.98	34:04	0.988	1118.2				56.2					
IS	13C-1,2,3,6,7,8-HxCDF	1.64e+07	0.51 y	1.08	34:11	0.992	1324.8				66.6					
IS	13C-2,3,4,6,7,8-HxCDF	1.31e+07	0.50 y	1.03	34:47	1.009	1115.8				56.1					
IS	13C-1,2,3,7,8,9-HxCDF	1.11e+07	0.51 y	0.86	35:44	1.036	1125.9				56.6					
IS	13C-1,2,3,4,6,7,8-HpCDF	8.67e+06	0.45 y	0.72	37:35	1.090	1048.8				52.7					
IS	13C-1,2,3,4,7,8,9-HpCDF	8.92e+06	0.45 y	0.70	39:26	1.144	1117.1				56.1					
IS	13C-OCDF	1.71e+07	0.91 y	0.85	42:27	1.231	1757.0				44.2					
C/Up	37Cl-2,3,7,8-TCDD	8.47e+06		1.12	27:00	1.022	821.78				103					
RS/RT	13C-1,2,3,4-TCDD	1.84e+07	0.79 y	1.00	26:24	*	1989.6									
RS	13C-1,2,3,4-TCDF	3.23e+07	0.79 y	1.00	24:54	*	1989.6									
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.28e+07	0.51 y	1.00	34:28	*	1989.6									

Integrations Reviewed
 by
 Analyst: MI Analyst: [Signature]
 Date: 2/27/15 Date: 2/27/15

Totals class: TCDD EMPC

Entry #: 19

Run: 10 File: 150226D1 S: 8 I: 1 F: 1
Acquired: 26-FEB-15 15:21:46 Processed: 27-FEB-15 08:00:45

Total Concentration: 3.1718 Unnamed Concentration: 3.172

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
23:27	9.808e+03	9.447e+03	1.04	n	1.672e+04	2.1727
23:50	3.345e+03	5.286e+03	0.63	n	7.690e+03	0.99914

Totals class: PeCDD EMPC

Entry #: 21

Run: 10 File: 150226D1 S: 8 I: 1 F: 2
 Acquired: 26-FEB-15 15:21:46 Processed: 27-FEB-15 08:00:45

Total Concentration: 23.319

Unnamed Concentration: 20.085

RT	m1 Resp	m2 Resp	RA		Resp Concentration		Name
29:32	1.339e+04	2.417e+04	0.55	y	3.756e+04	5.5249	
29:59	7.996e+03	1.537e+04	0.52	n	2.069e+04	3.0435	
30:26	1.066e+04	1.662e+04	0.64	y	2.728e+04	4.0129	
30:36	5.958e+03	1.400e+04	0.43	n	1.542e+04	2.2678	
30:41	3.922e+03	7.286e+03	0.54	y	1.121e+04	1.6489	
30:55	9.019e+03	1.537e+04	0.59	y	2.439e+04	3.5876	
31:37	8.048e+03	1.393e+04	0.58	y	2.198e+04	3.2332	1,2,3,7,8-PeCDD

Totals class: HxCDD EMPC

Entry #: 23

Run: 10

File: 150226D1

S: 8 I: 1 F: 3

Acquired: 26-FEB-15 15:21:46

Processed: 27-FEB-15 08:00:45

Total Concentration: 529.14

Unnamed Concentration: 458.316

RT	m1 Resp	m2 Resp	RA		Resp Concentration		Name
33:26	5.484e+05	4.414e+05	1.24	y	9.898e+05	206.49	
33:59	7.122e+04	5.316e+04	1.34	y	1.244e+05	25.948	
34:16	4.751e+05	3.787e+05	1.25	y	8.538e+05	178.12	
34:23	8.766e+04	6.601e+04	1.33	y	1.537e+05	32.057	
34:57	2.253e+04	1.630e+04	1.38	y	3.884e+04	7.8749	1,2,3,4,7,8-HxCDD
35:04	1.177e+05	9.504e+04	1.24	y	2.127e+05	46.013	1,2,3,6,7,8-HxCDD
35:17	4.096e+04	3.431e+04	1.19	y	7.527e+04	15.702	
35:23	4.463e+04	3.723e+04	1.20	y	8.186e+04	16.941	1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC

Entry #: 25

Run: 10 File: 150226D1 S: 8 I: 1 F: 4
Acquired: 26-FEB-15 15:21:46 Processed: 27-FEB-15 08:00:45

Total Concentration: 5656.0

Unnamed Concentration: 4083.476

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
38:01	9.740e+06	9.295e+06	1.05	y	1.904e+07	4083.5
38:54	3.745e+06	3.586e+06	1.04	y	7.330e+06	1572.5

Totals class: TCDF EMPC

Entry #: 27

Run: 10 File: 150226D1 S: 8 I: 1 F: 1
 Acquired: 26-FEB-15 15:21:46 Processed: 27-FEB-15 08:00:45

Total Concentration: 41.285 Unnamed Concentration: 38.616

RT	m1 Resp	m2 Resp	RA		Resp Concentration		Name
21:50	4.938e+03	9.631e+03	0.51	n	1.135e+04	1.0697	
22:27	2.227e+04	2.635e+04	0.85	y	4.861e+04	4.5811	
23:01	2.102e+04	2.905e+04	0.72	y	5.008e+04	4.7192	
23:25	2.099e+04	2.682e+04	0.78	y	4.781e+04	4.5055	
23:52	1.031e+04	1.358e+04	0.76	y	2.388e+04	2.2507	
24:00	8.326e+03	1.499e+04	0.56	n	1.914e+04	1.8036	
24:10	1.669e+04	2.374e+04	0.70	y	4.042e+04	3.8092	
24:52	2.657e+04	3.094e+04	0.86	y	5.751e+04	5.4189	
25:22	9.331e+03	1.422e+04	0.66	y	2.355e+04	2.2191	
25:36	5.451e+03	6.793e+03	0.80	y	1.224e+04	1.1538	
26:00	9.846e+03	1.230e+04	0.80	y	2.214e+04	2.0866	
26:11	1.173e+04	1.660e+04	0.71	y	2.832e+04	2.6689	2,3,7,8-TCDF
26:31	2.226e+04	2.033e+04	1.09	n	3.599e+04	3.3914	
27:44	7.343e+03	9.714e+03	0.76	y	1.706e+04	1.6073	

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 10 File: 150226D1 S: 8 I: 1 F: 1
Acquired: 26-FEB-15 15:21:46 Processed: 27-FEB-15 08:00:45

Total Concentration: 31.155 Unnamed Concentration: 31.155

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
28:01	2.121e+05	1.366e+05	1.55 y	3.487e+05	31.155

Totals class: PeCDF EMPC

Entry #: 31

Run: 10 File: 150226D1 S: 8 I: 1 F: 2
 Acquired: 26-FEB-15 15:21:46 Processed: 27-FEB-15 08:00:45

Total Concentration: 39.582

Unnamed Concentration: 33.758

RT	m1 Resp	m2 Resp	RA		Resp Concentration		Name
29:21	2.485e+04	1.477e+04	1.68	y	3.961e+04	3.5390	
29:29	1.012e+05	5.678e+04	1.78	y	1.580e+05	14.115	
30:03	4.602e+04	2.710e+04	1.70	y	7.312e+04	6.5324	
30:25	1.517e+04	1.210e+04	1.25	n	2.496e+04	2.3389	1,2,3,7,8-PeCDF
30:40	3.554e+04	2.569e+04	1.38	y	6.123e+04	5.4701	
31:14	1.062e+04	3.844e+03	2.76	n	9.803e+03	0.87575	
31:19	2.412e+04	1.662e+04	1.45	y	4.074e+04	3.4849	2,3,4,7,8-PeCDF
31:22	2.279e+04	1.332e+04	1.71	y	3.611e+04	3.2261	

Totals class: HxCDF EMPC

Entry #: 33

Run: 10 File: 150226D1 S: 8 I: 1 F: 3
 Acquired: 26-FEB-15 15:21:46 Processed: 27-FEB-15 08:00:45

Total Concentration: 275.16 Unnamed Concentration: 243.609

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
32:54	1.518e+05	1.291e+05	1.18 y	2.810e+05	32.804
33:03	4.533e+05	3.410e+05	1.33 y	7.943e+05	92.743
33:35	5.740e+05	4.372e+05	1.31 y	1.011e+06	118.06
34:04	6.848e+04	5.442e+04	1.26 y	1.229e+05	14.065 1,2,3,4,7,8-HxCDF
34:12	3.616e+04	2.798e+04	1.29 y	6.414e+04	6.1784 1,2,3,6,7,8-HxCDF
34:47	5.423e+04	4.183e+04	1.30 y	9.606e+04	11.308 2,3,4,6,7,8-HxCDF

Totals class: HpCDF EMPC

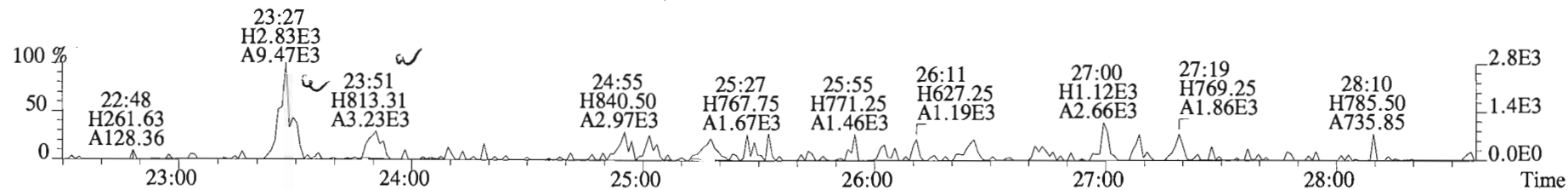
Entry #: 35

Run: 10 File: 150226D1 S: 8 I: 1 F: 4
Acquired: 26-FEB-15 15:21:46 Processed: 27-FEB-15 08:00:45

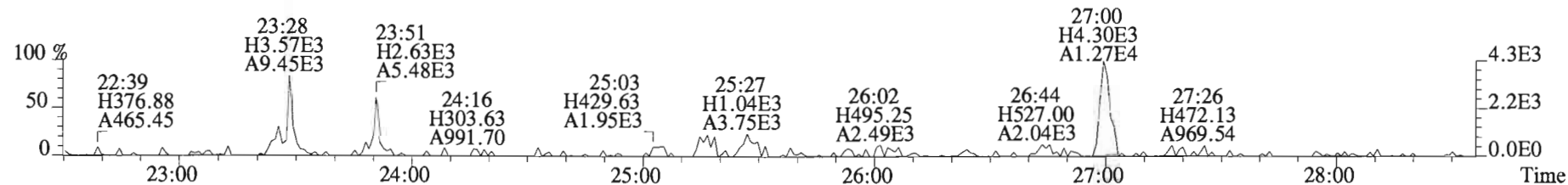
Total Concentration: 1077.4 Unnamed Concentration: 816.699

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Concentration	Name
37:36	8.865e+05	7.859e+05	1.13 y	1.672e+06	238.17	1,2,3,4,6,7,8-HpCDF
38:13	2.945e+06	2.718e+06	1.08 y	5.664e+06	816.70	
39:27	7.920e+04	7.495e+04	1.06 y	1.542e+05	22.541	1,2,3,4,7,8,9-HpCDF

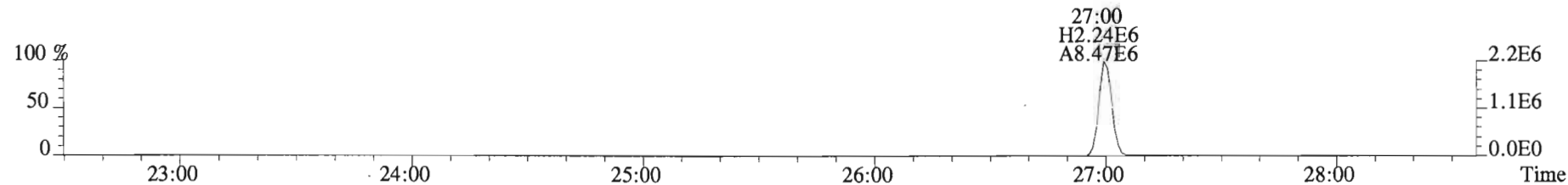
File:150226D1 #1-551 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



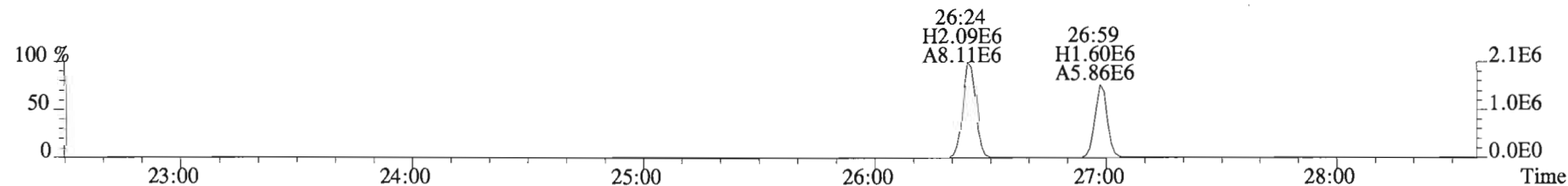
321.8936 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



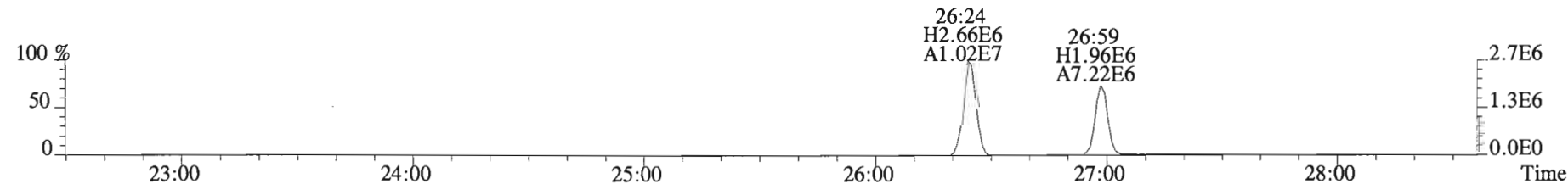
327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



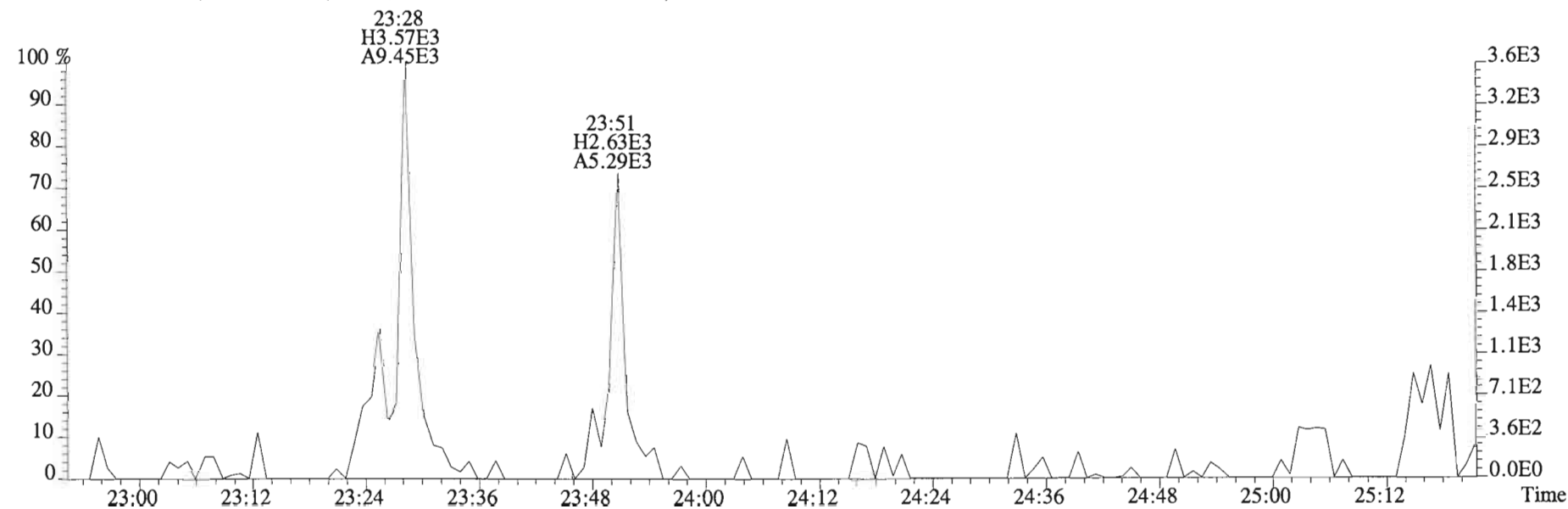
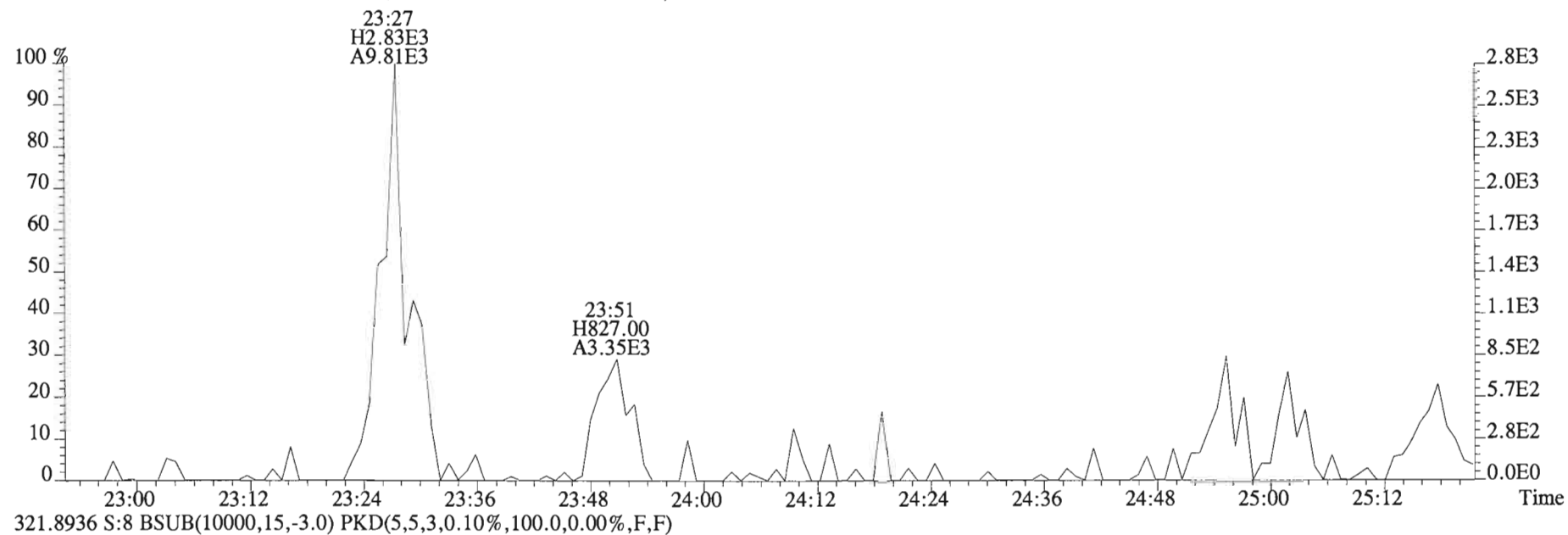
331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



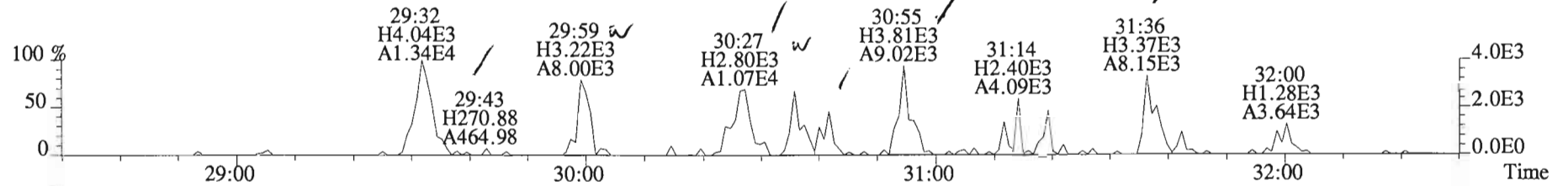
333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



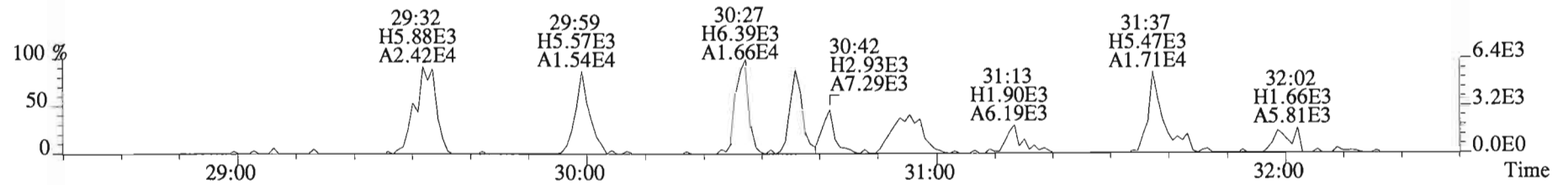
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Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



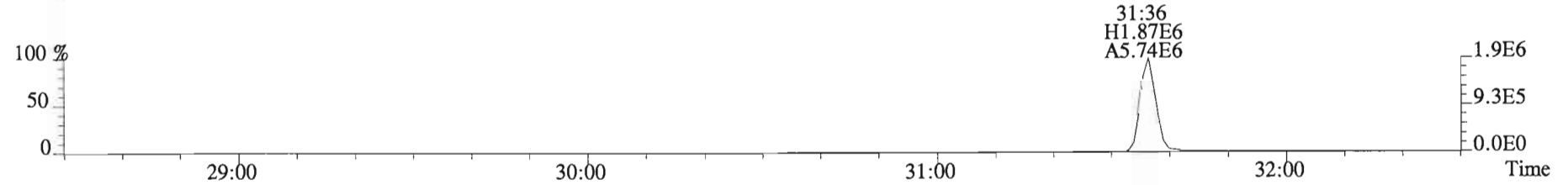
File:150226D1 #1-250 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



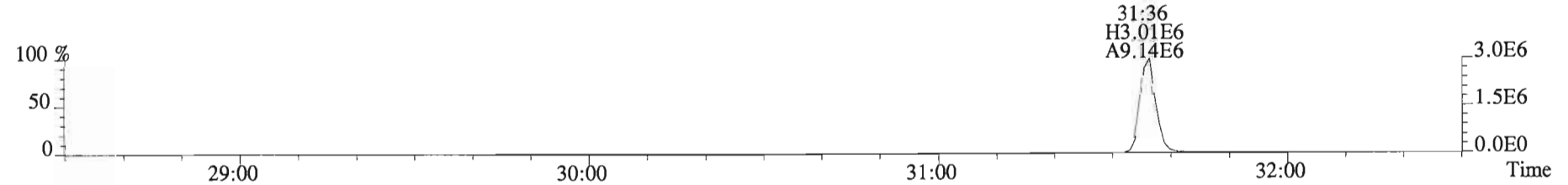
355.8546 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



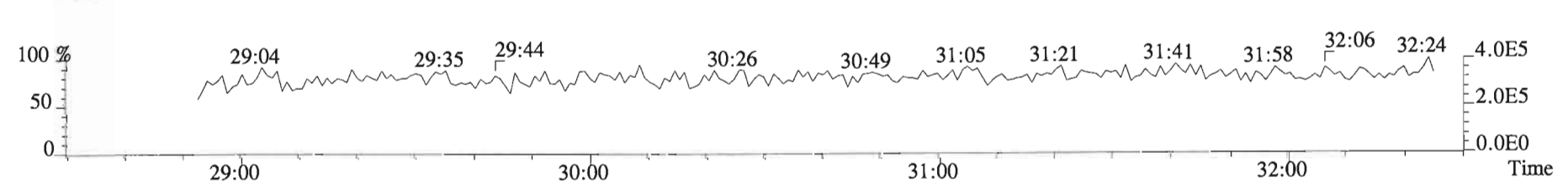
365.8978 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



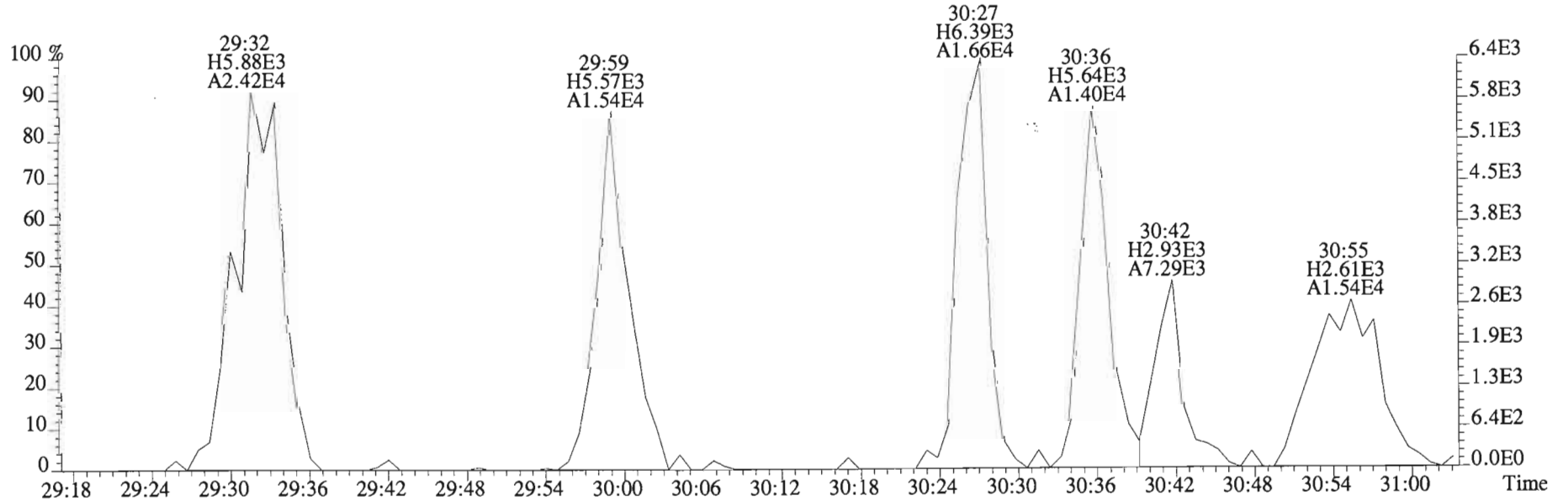
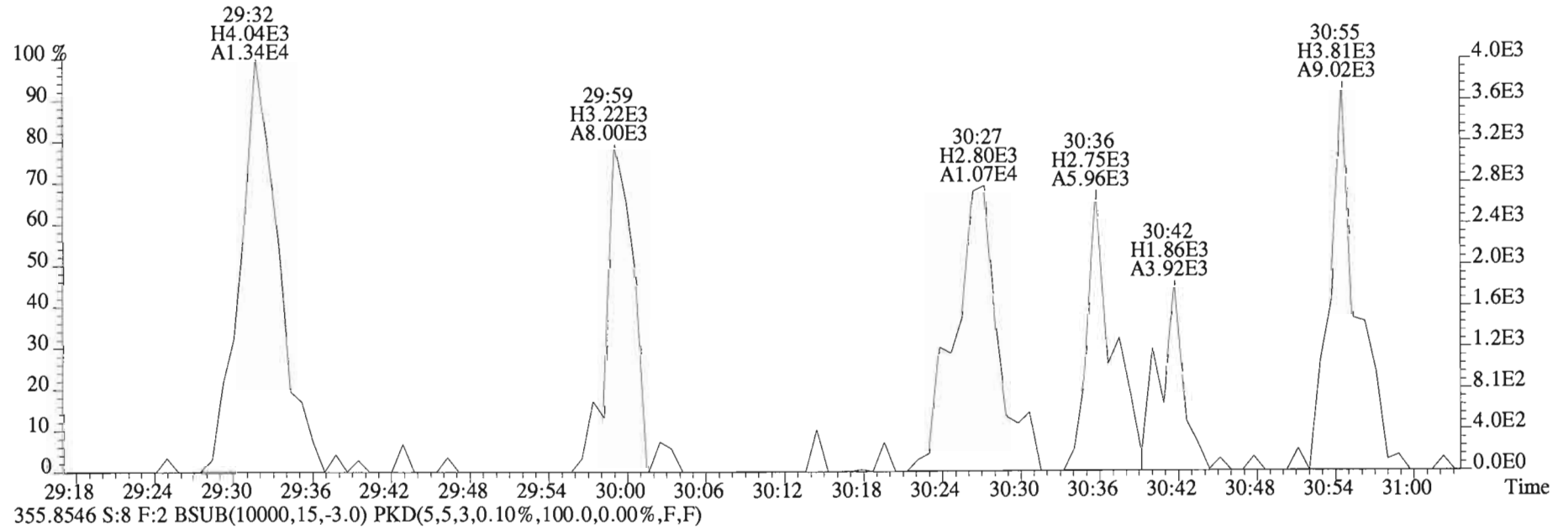
367.8949 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



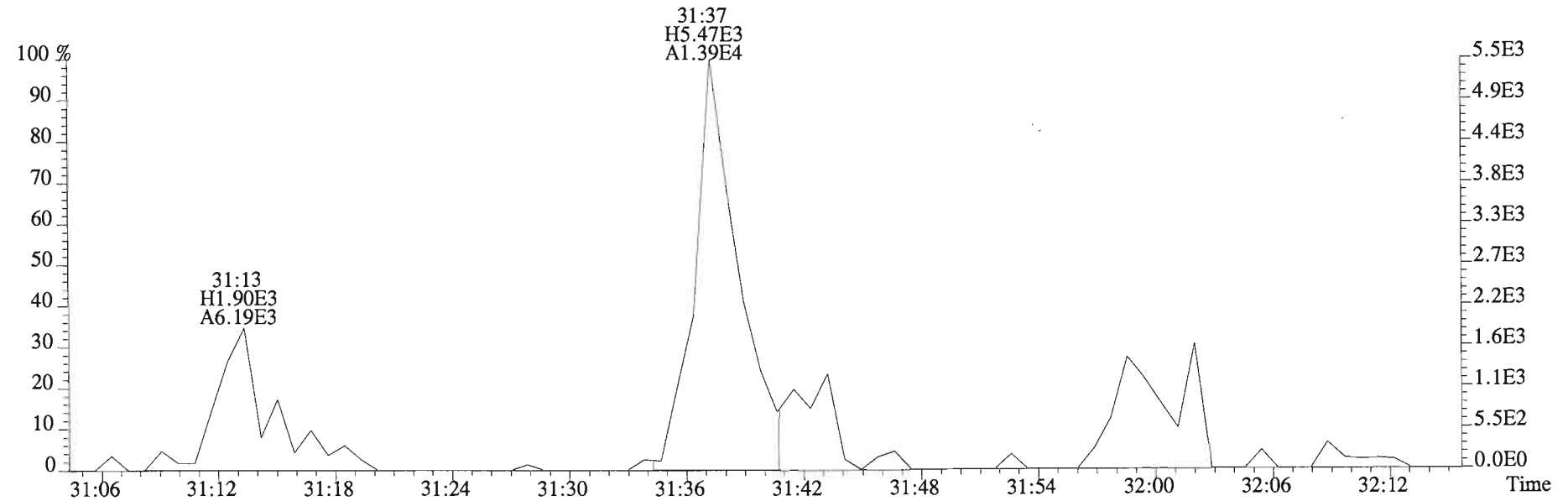
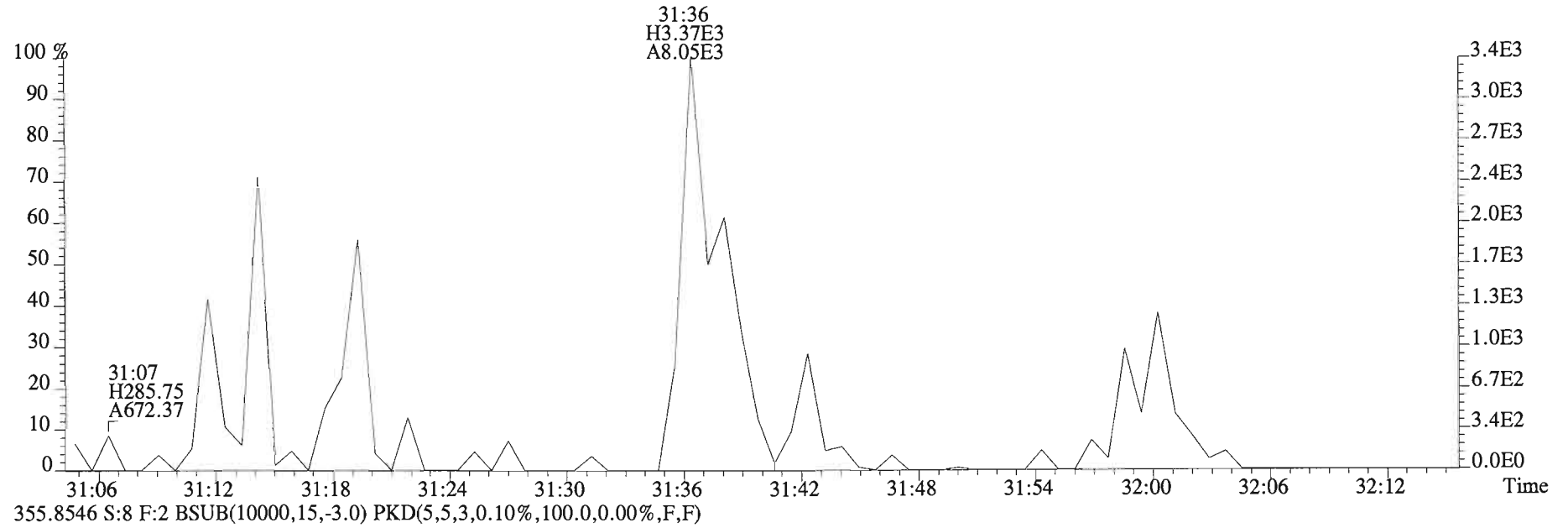
366.9792 S:8 F:2



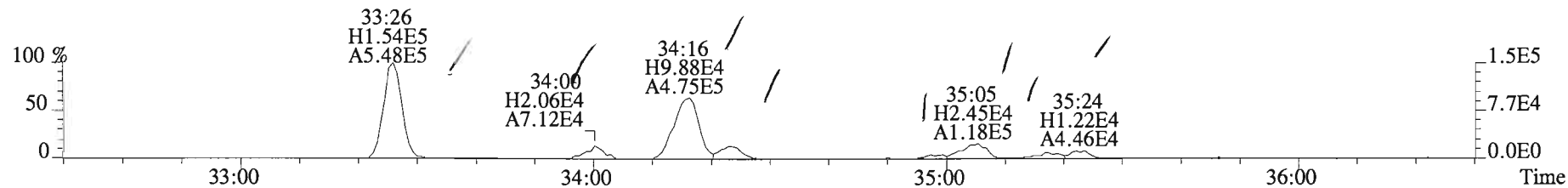
File:150226D1 #1-250 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text: Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
 353.8576 S:8 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



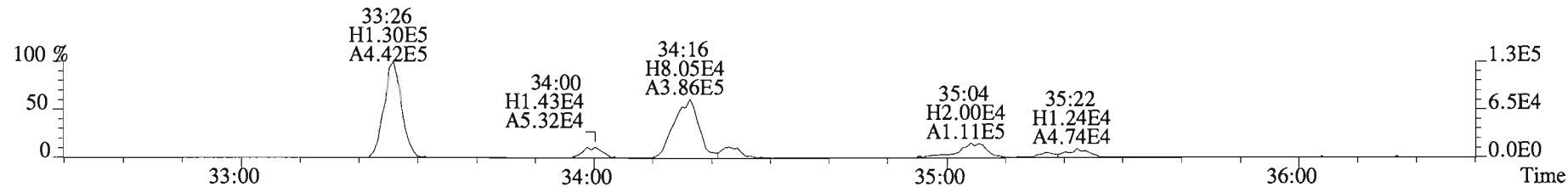
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Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



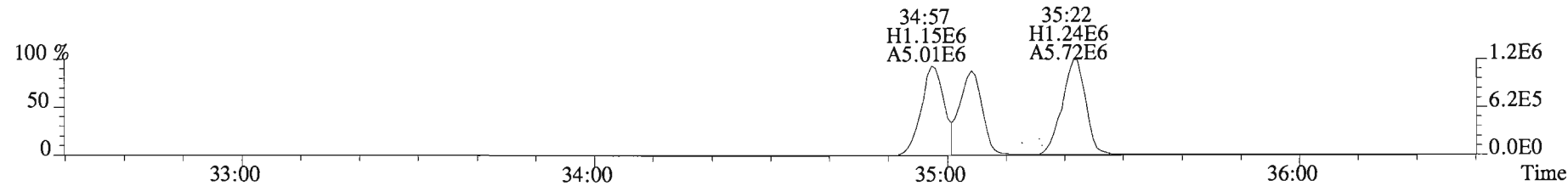
File:150226D1 #1-393 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



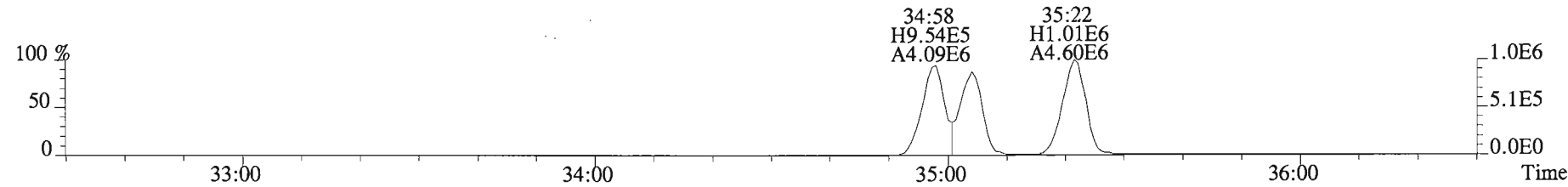
391.8127 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



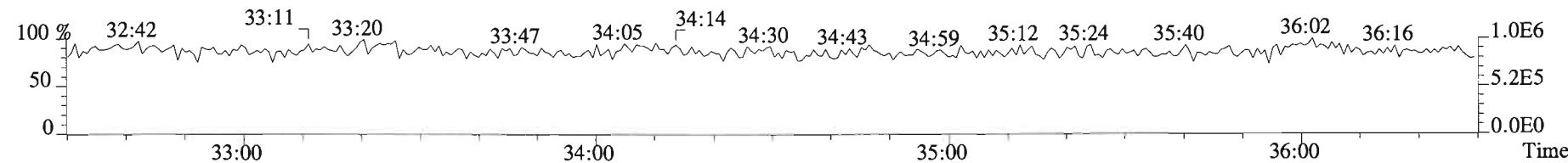
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



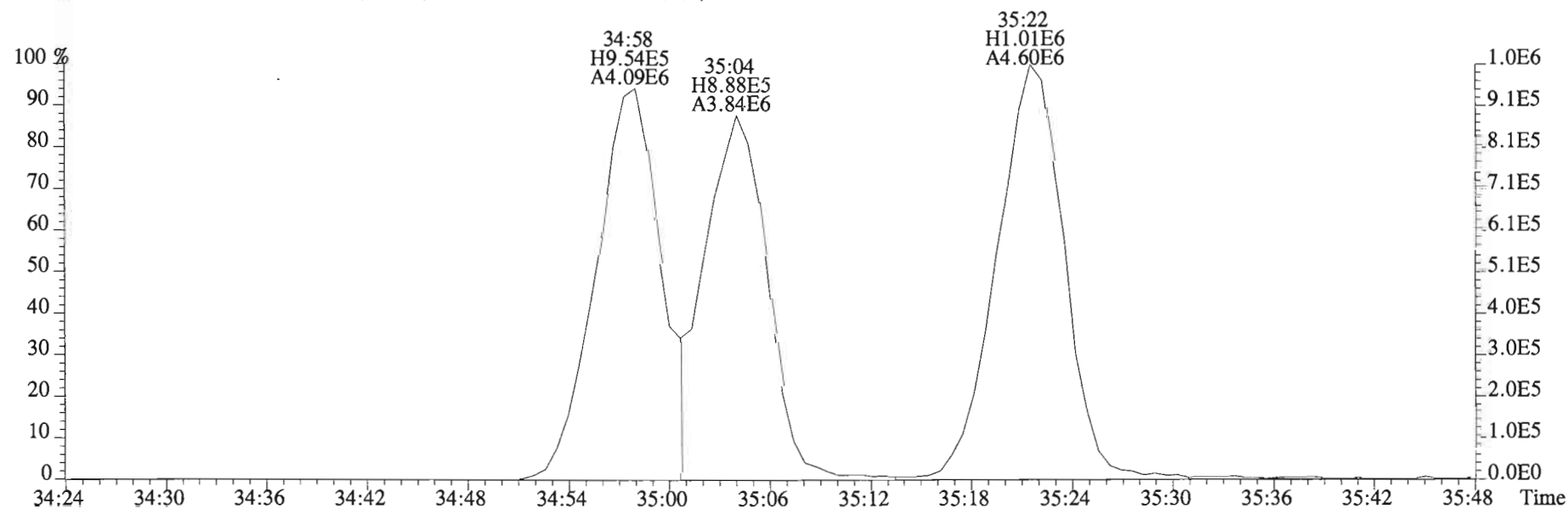
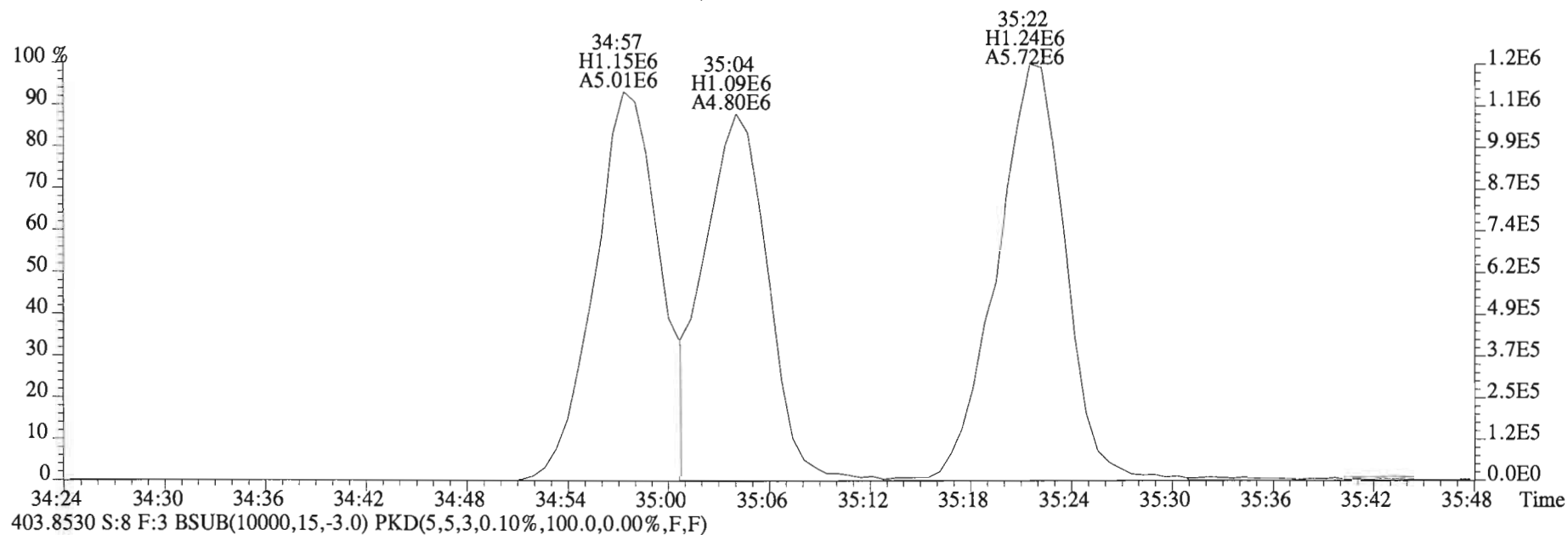
403.8530 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



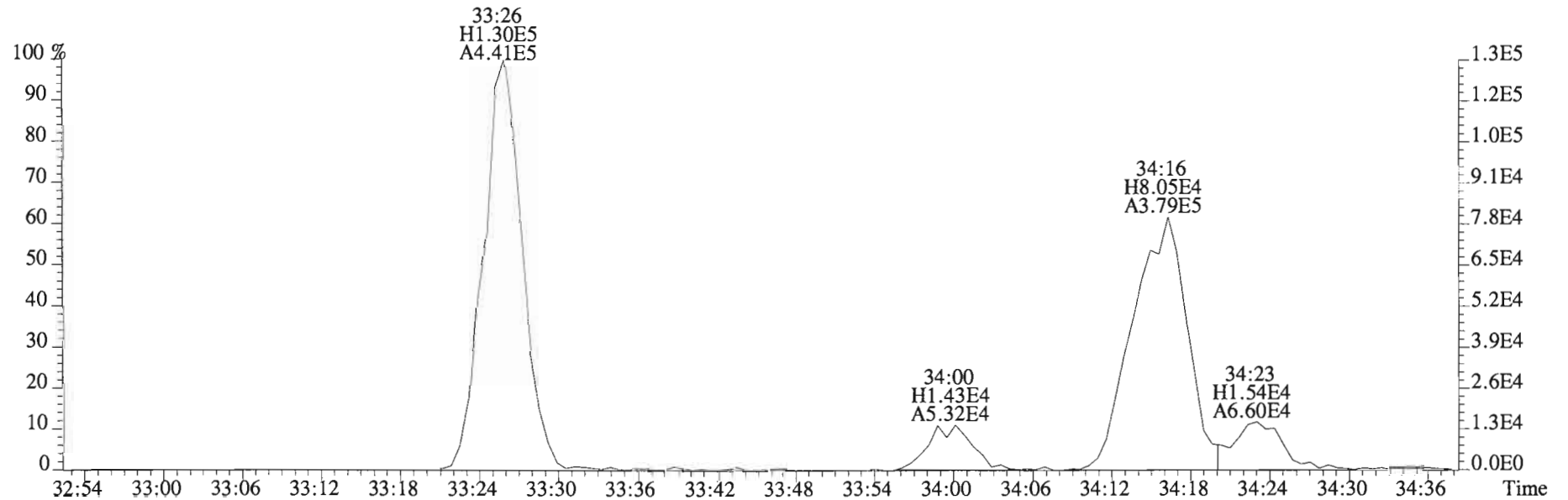
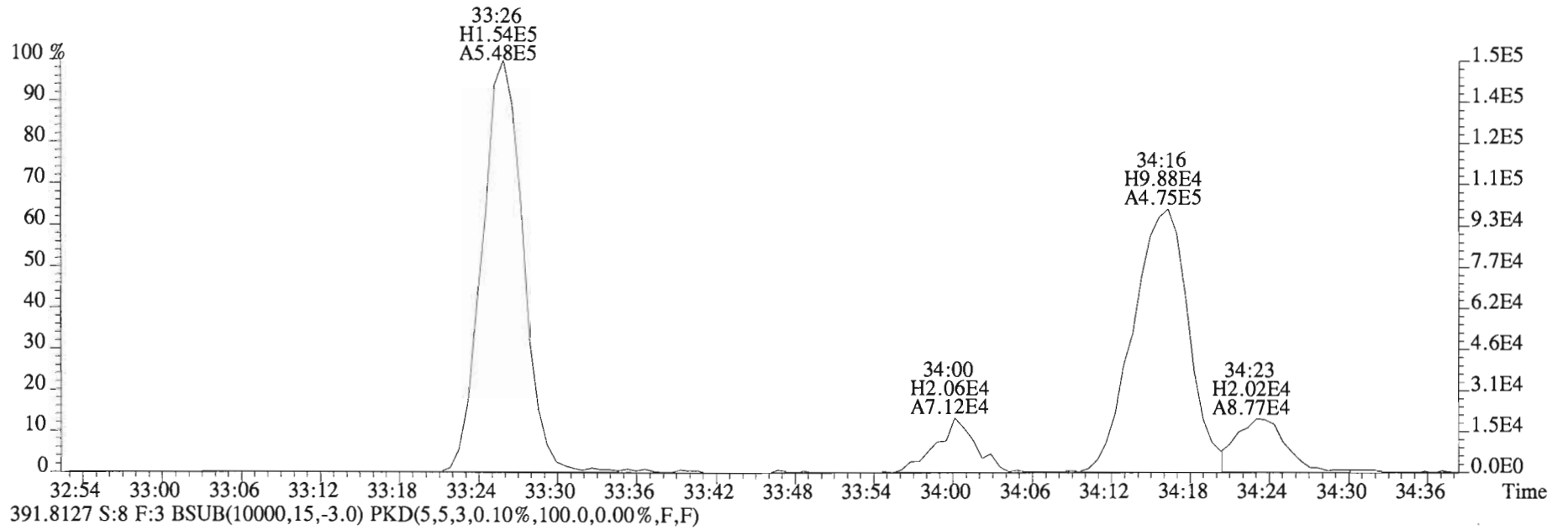
380.9760 S:8 F:3



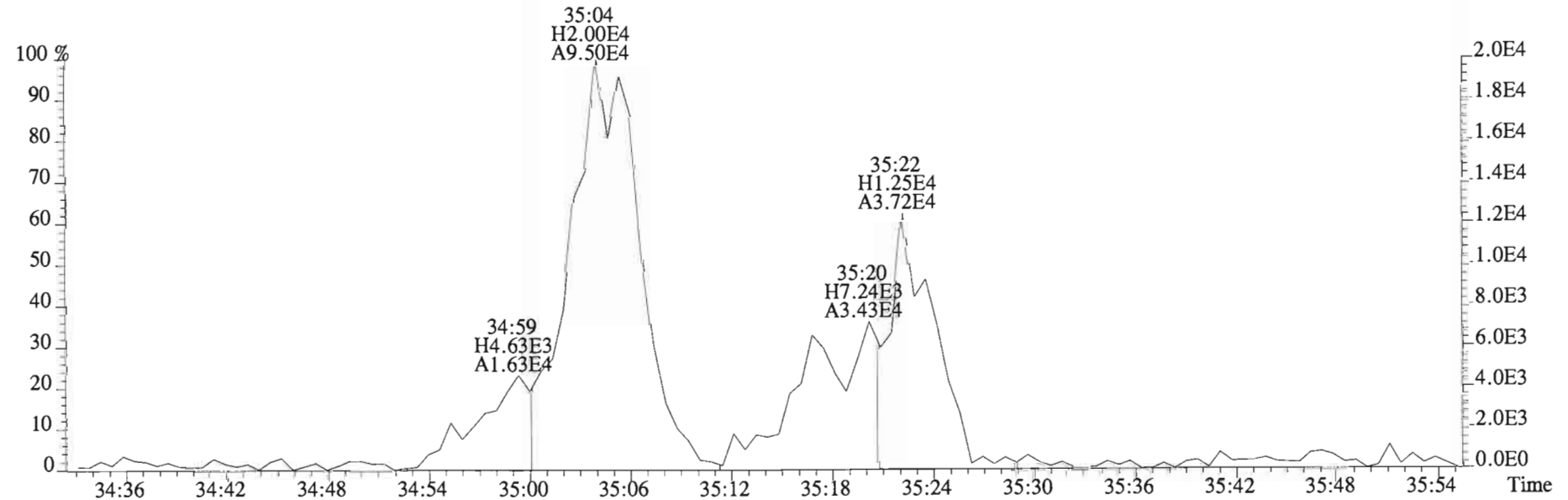
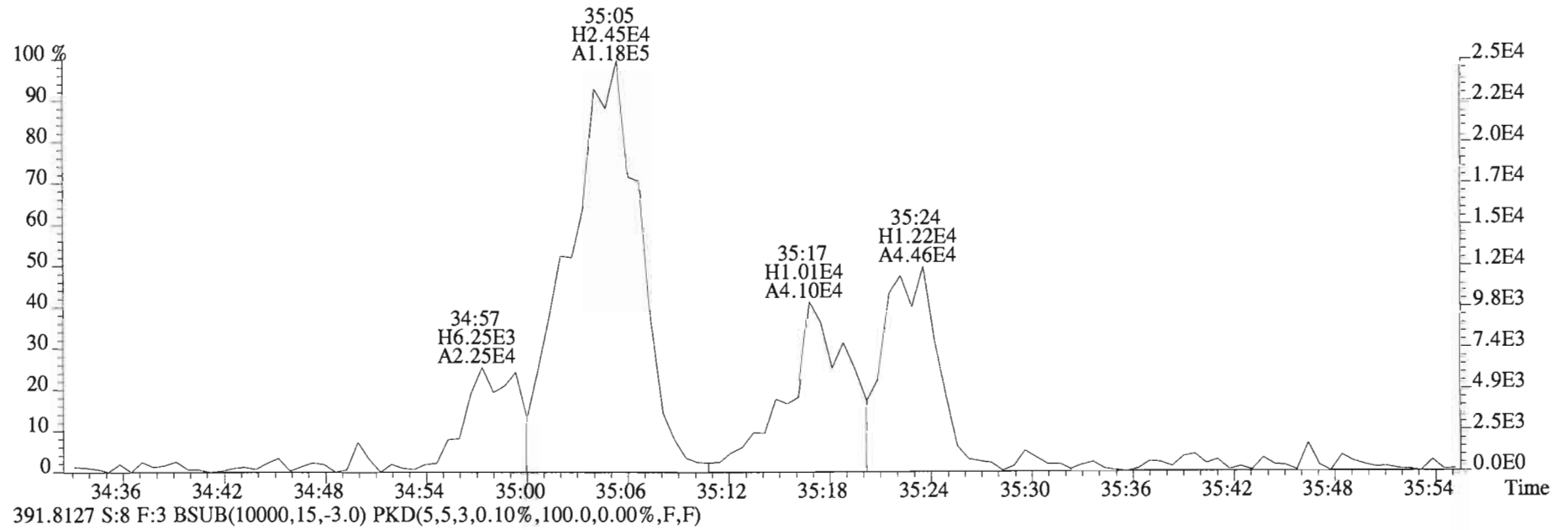
File:150226D1 #1-393 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



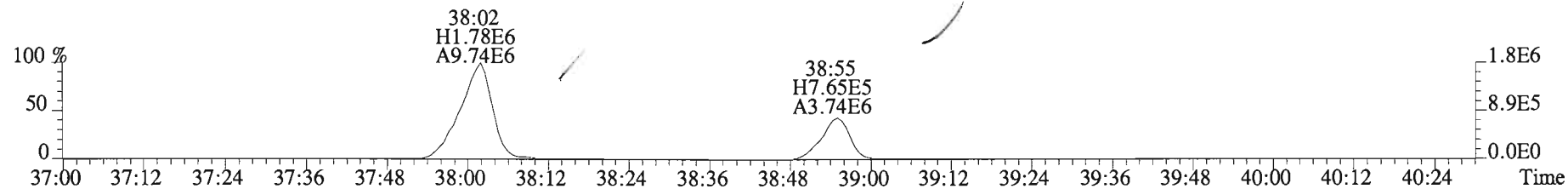
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Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



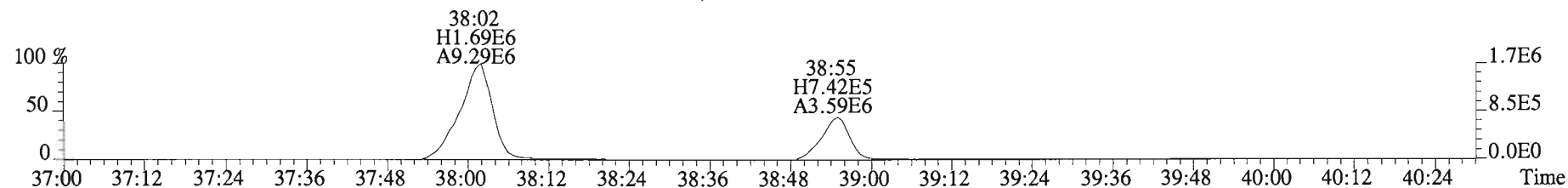
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Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
389.8156 S:8 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



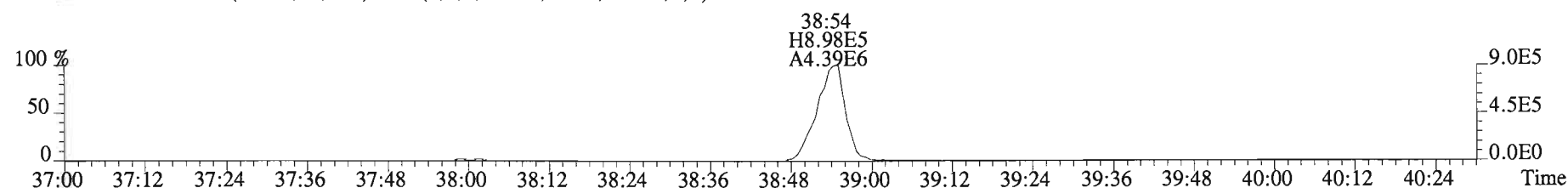
File:150226D1 #1-326 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



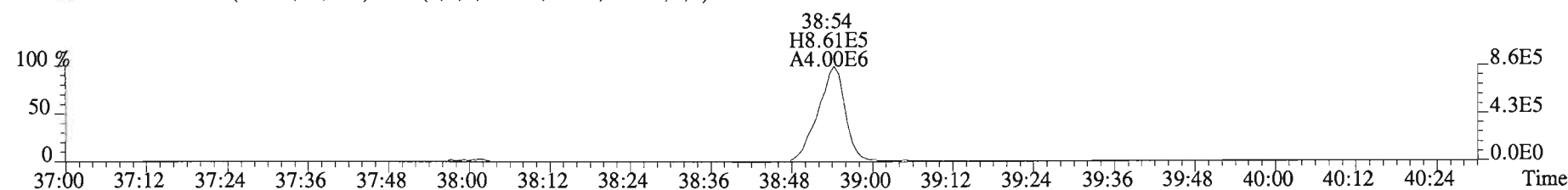
425.7737 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



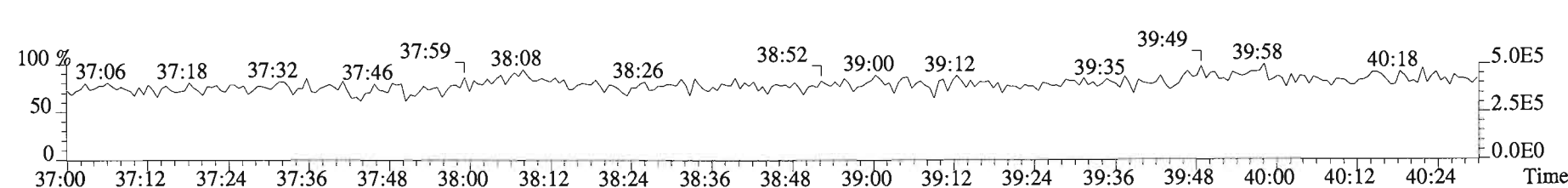
435.8169 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



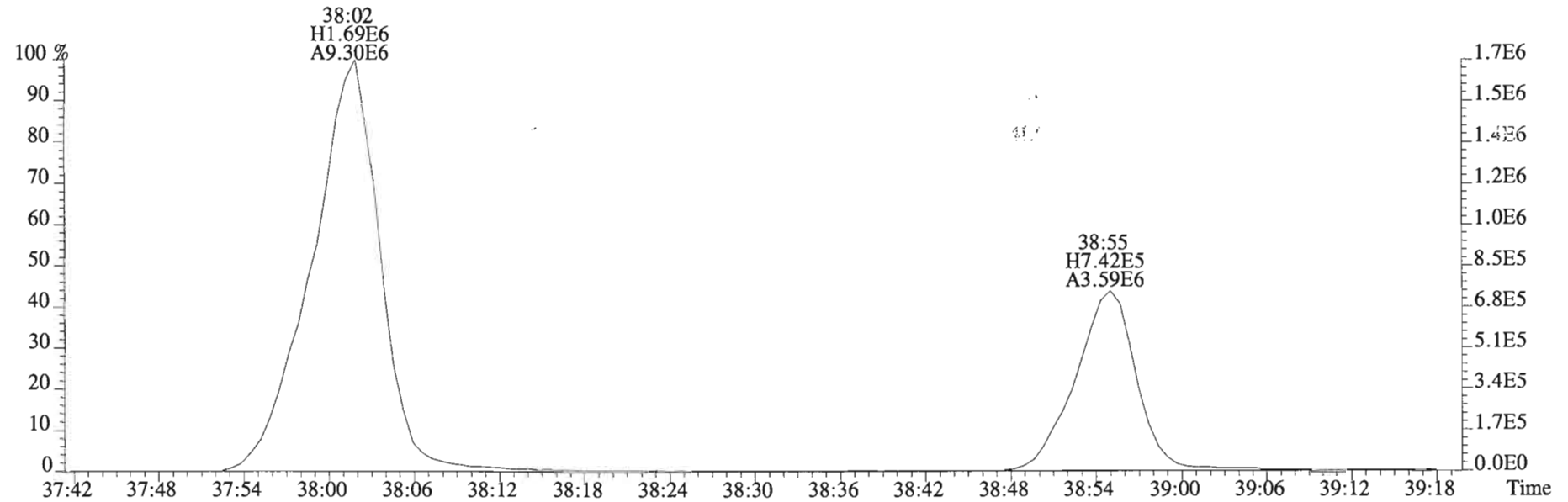
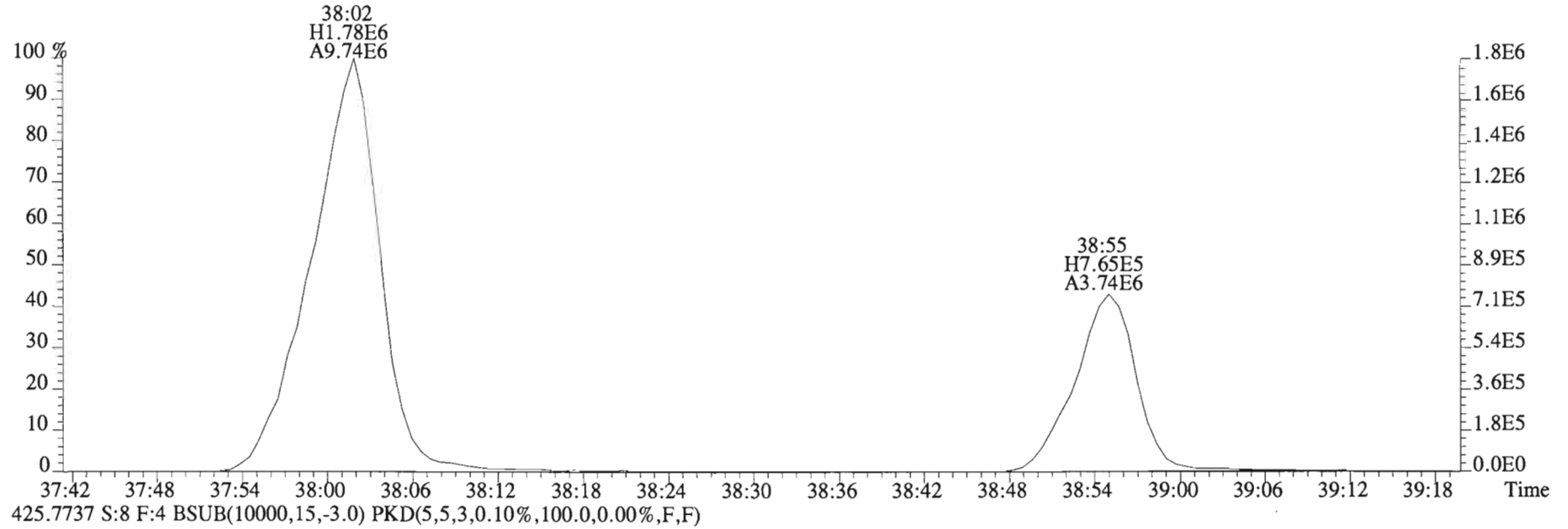
437.8140 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



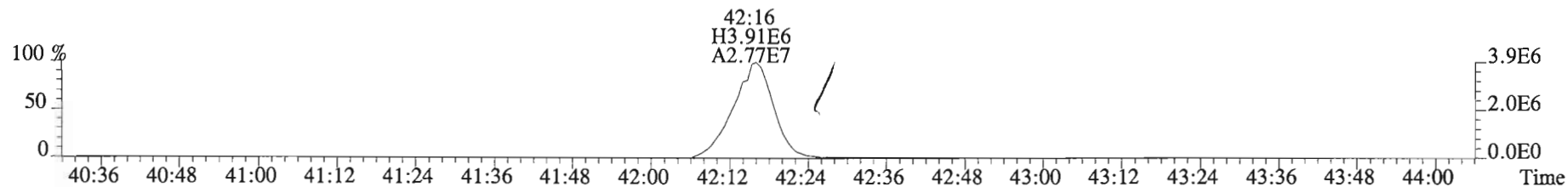
430.9728 S:8 F:4



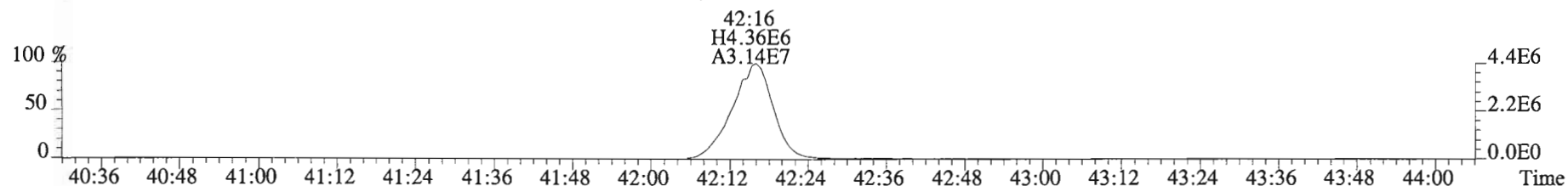
File:150226D1 #1-326 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



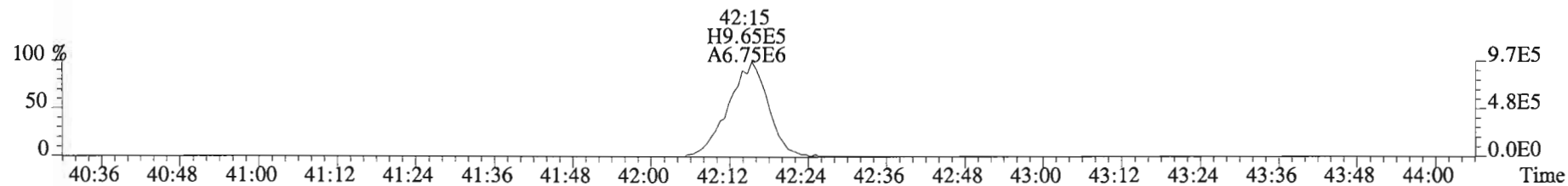
File:150226D1 #1-388 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



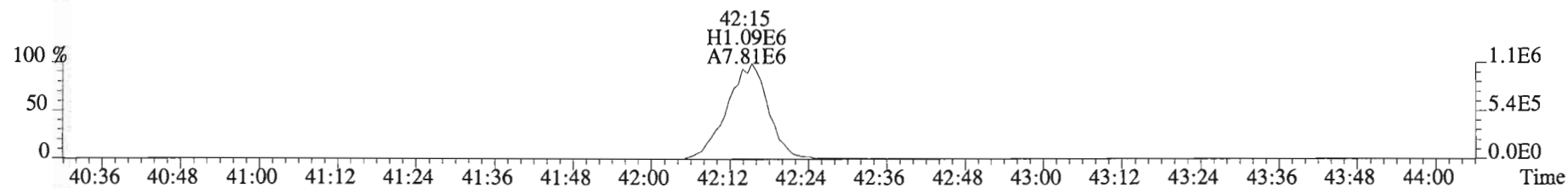
459.7348 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



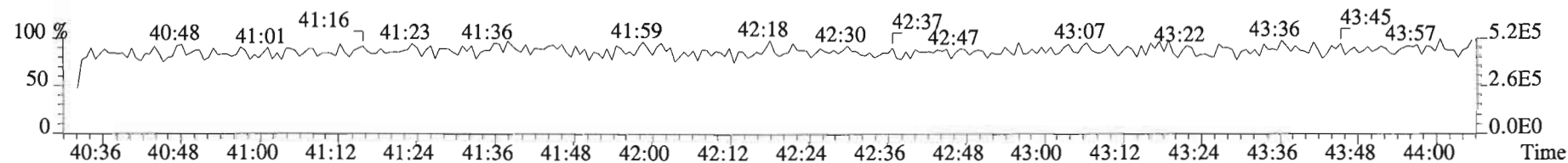
469.7780 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



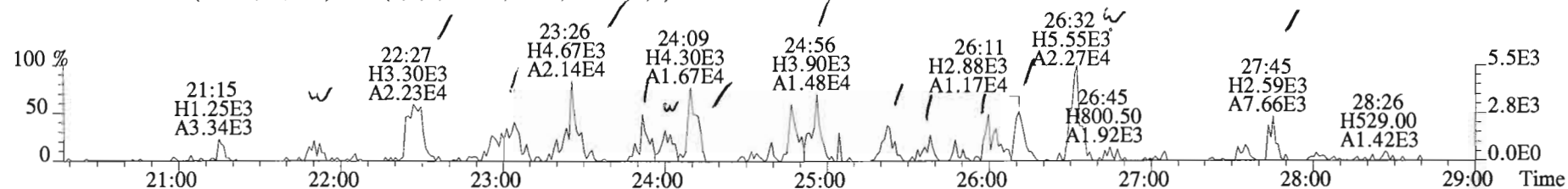
471.7750 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



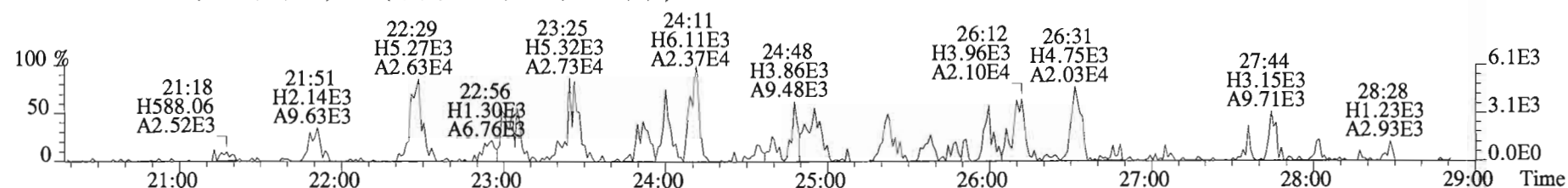
454.9728 S:8 F:5



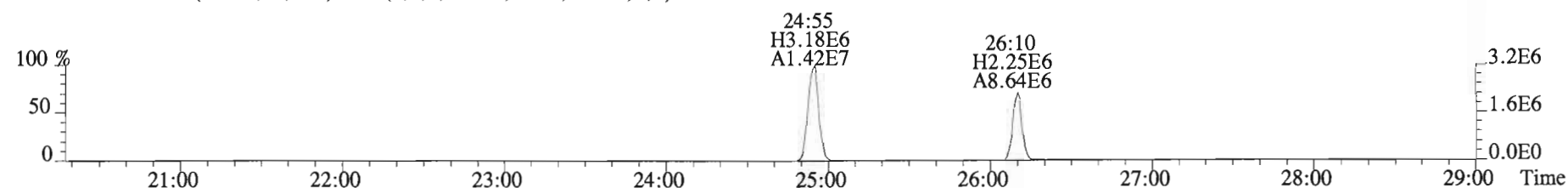
File:150226D1 #1-551 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
 303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



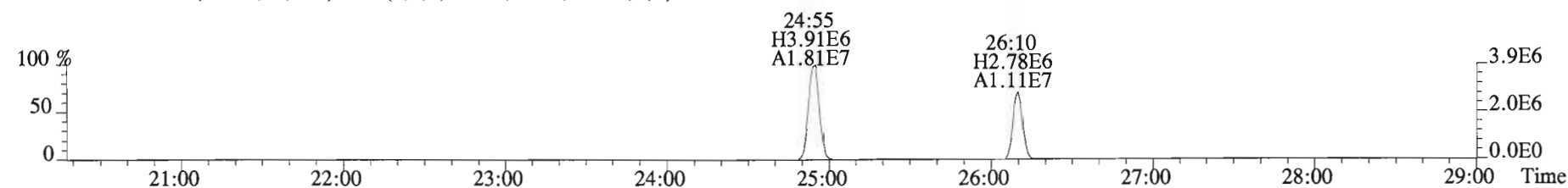
305.8987 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



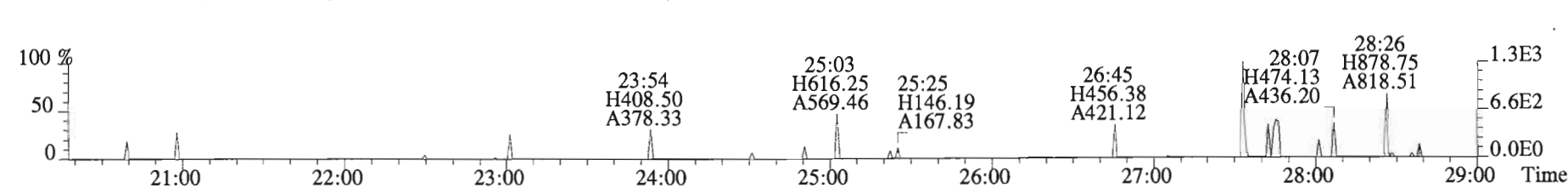
315.9419 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



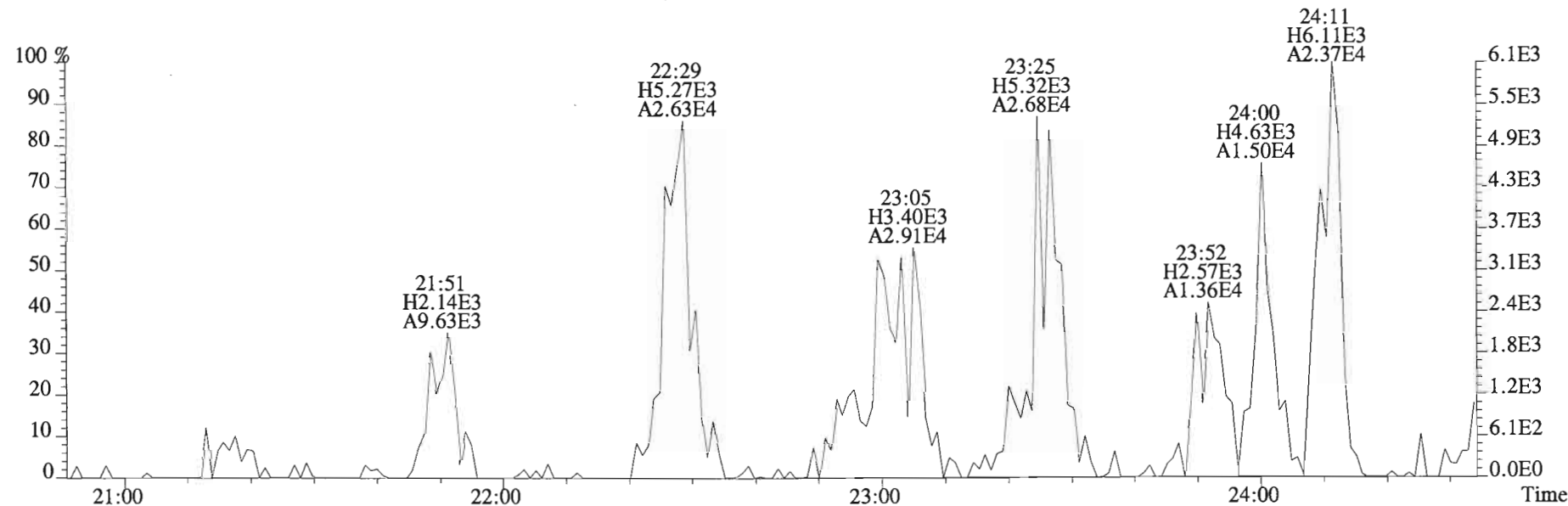
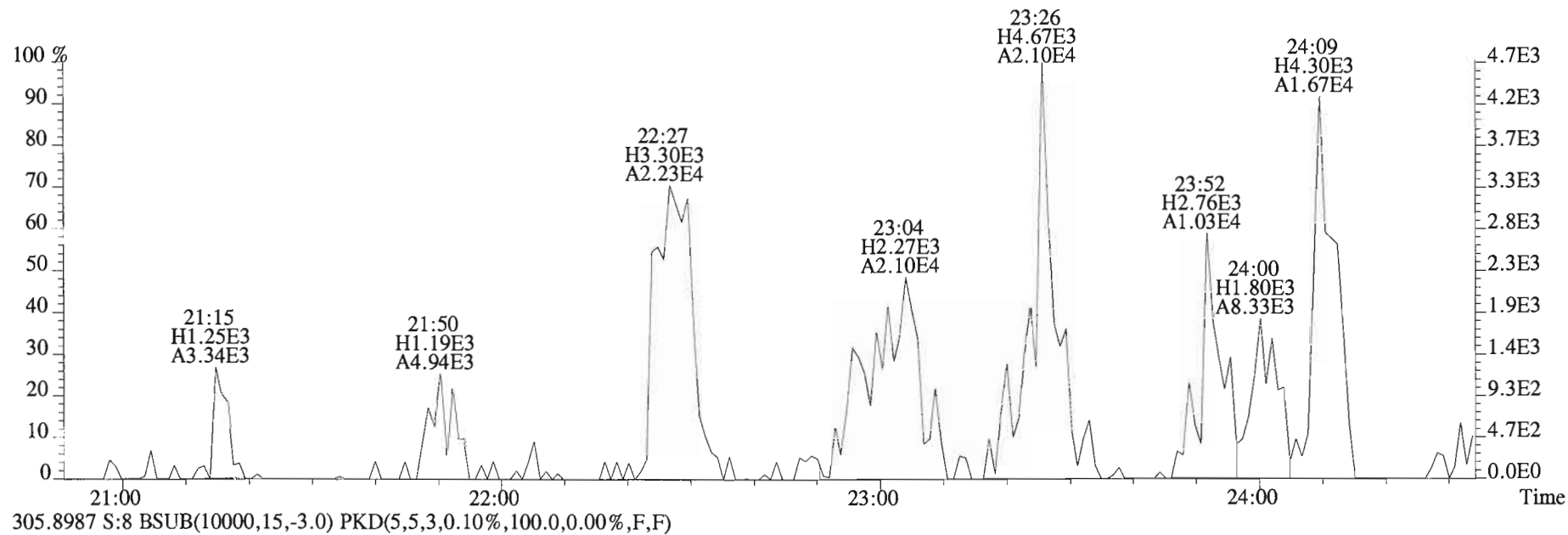
317.9389 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



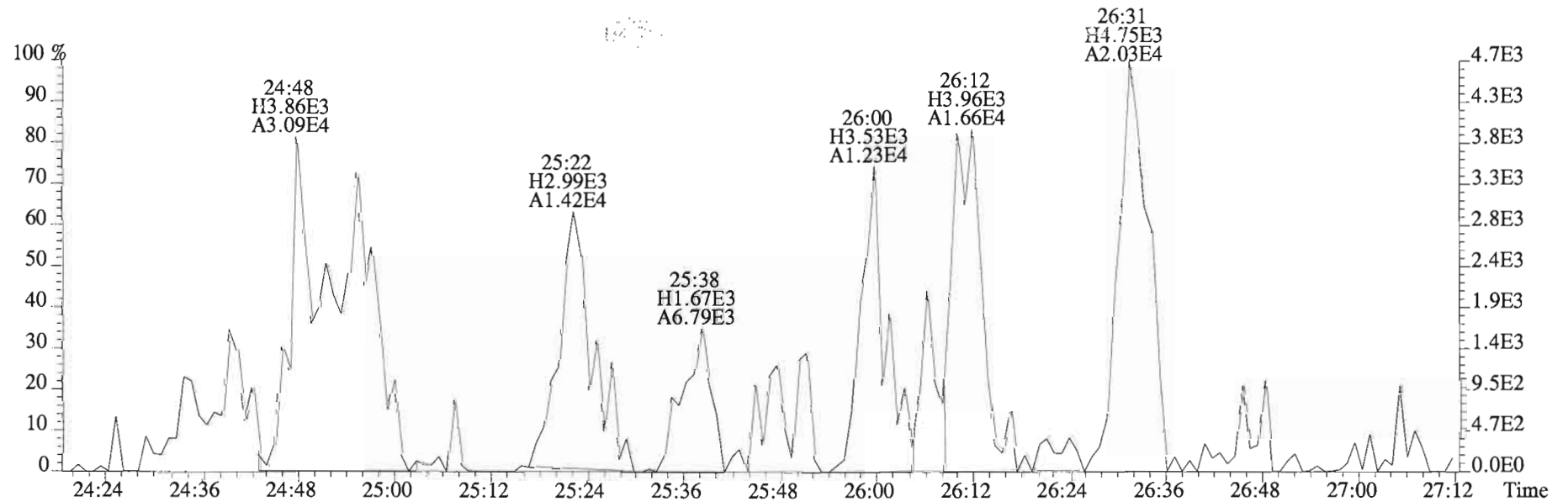
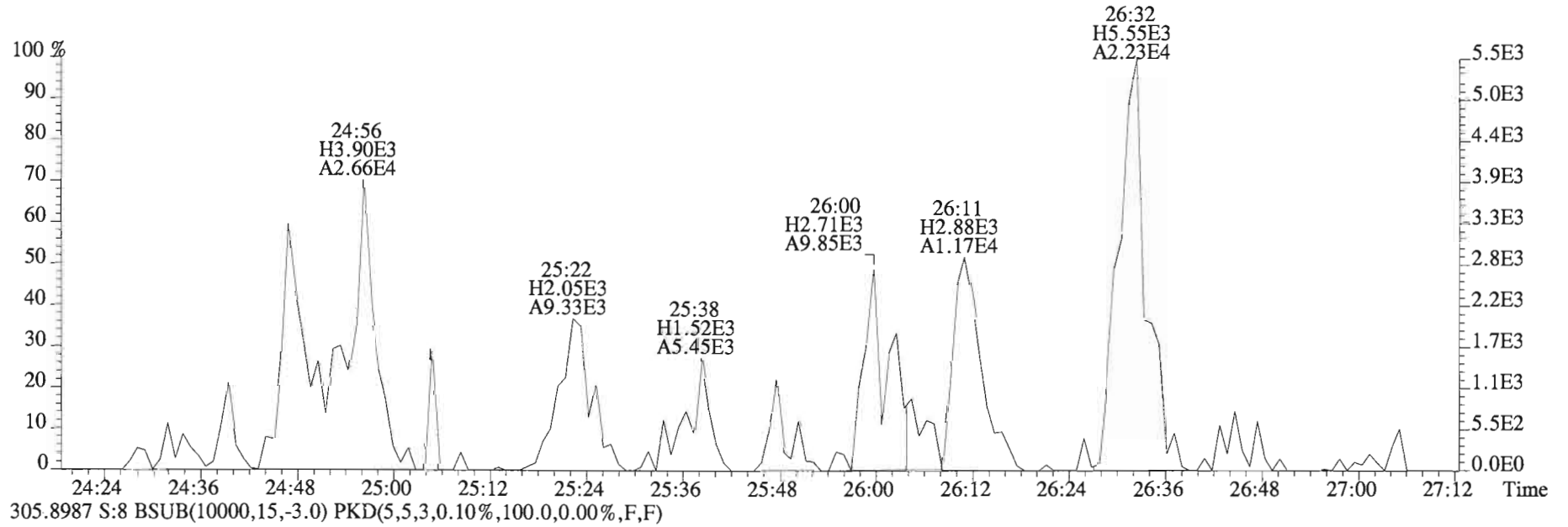
375.8364 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



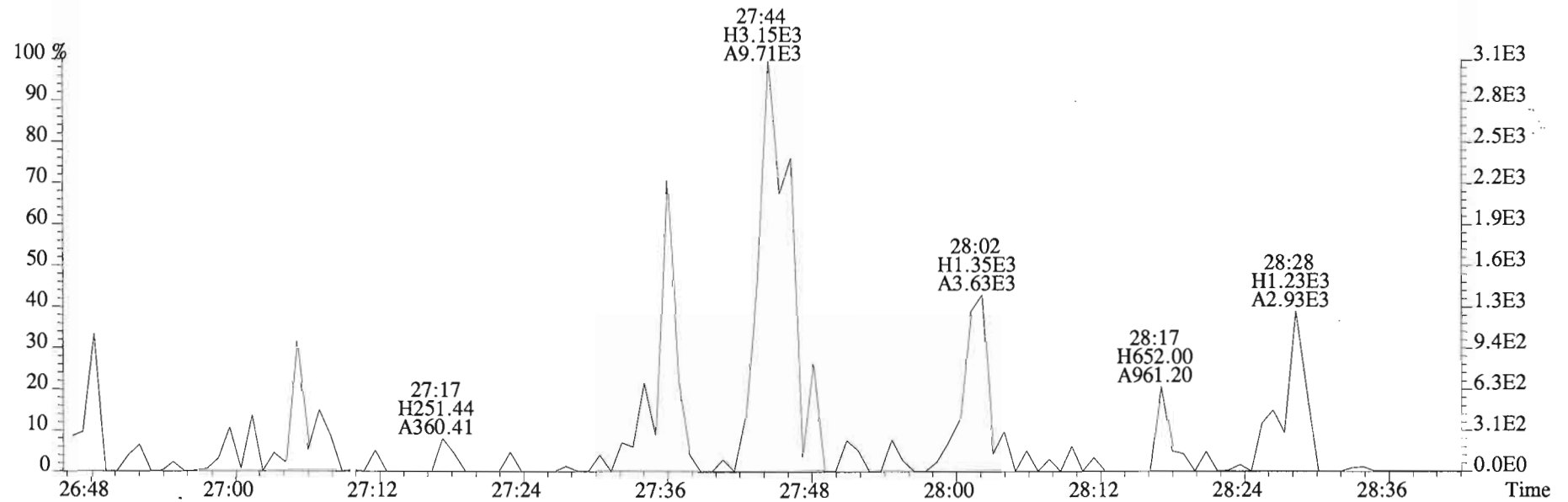
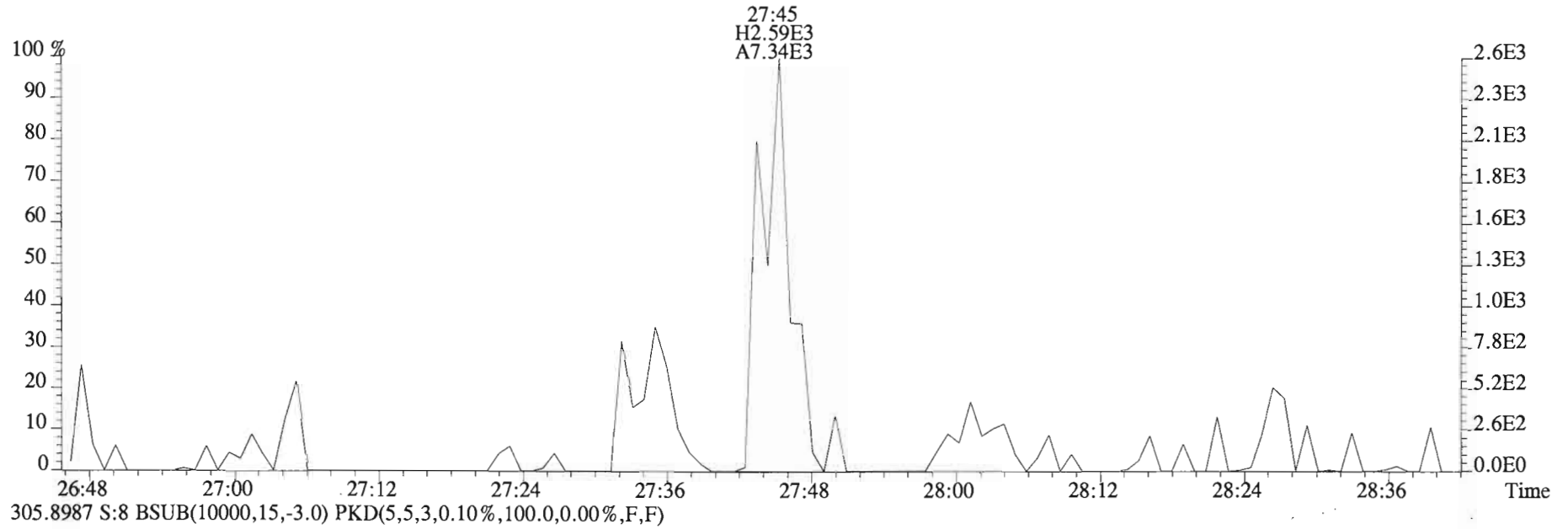
File:150226D1 #1-551 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
 303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



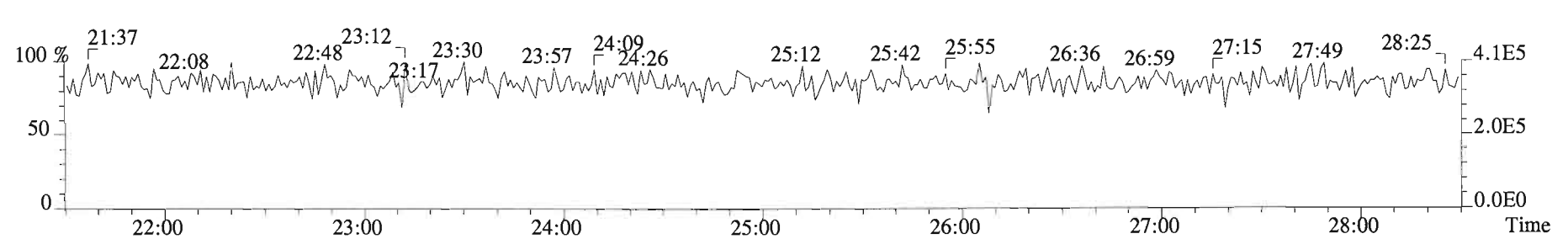
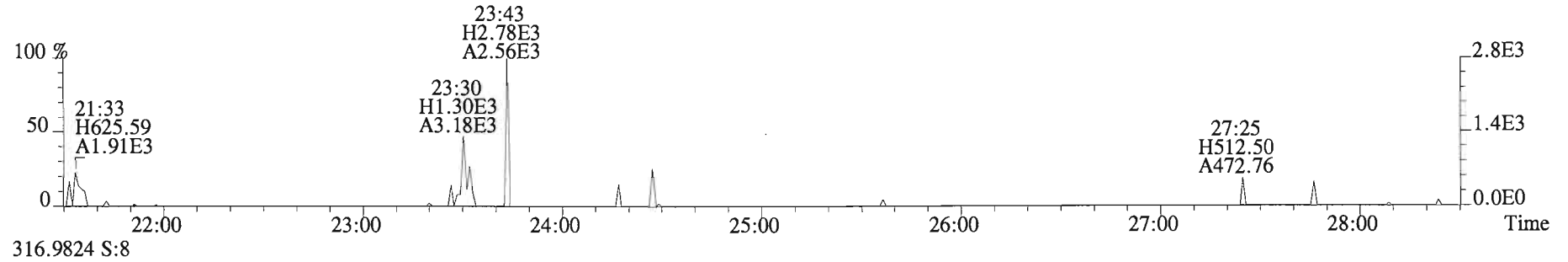
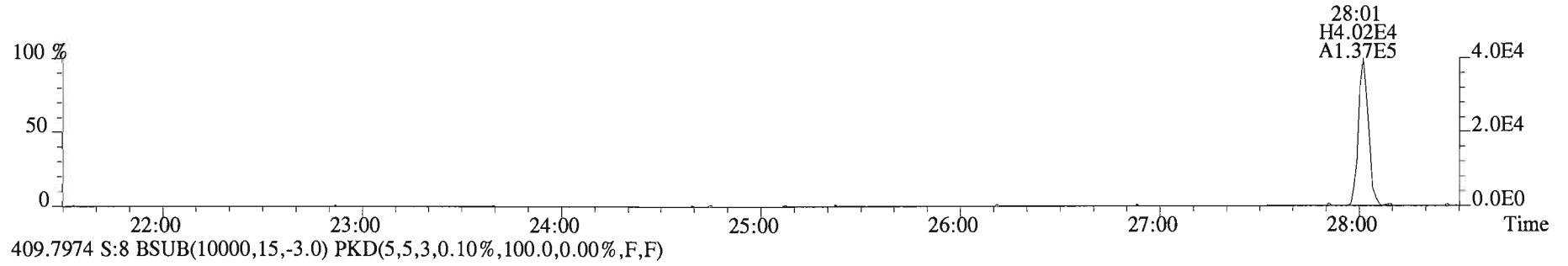
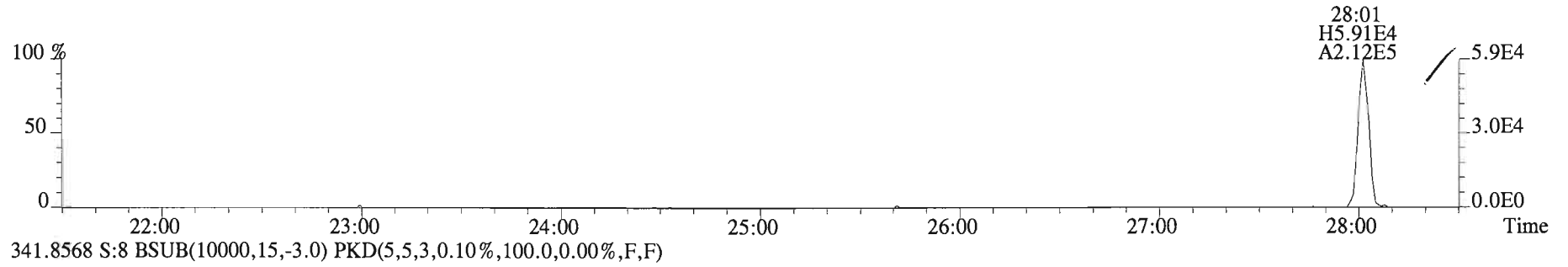
File:150226D1 #1-551 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text: Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



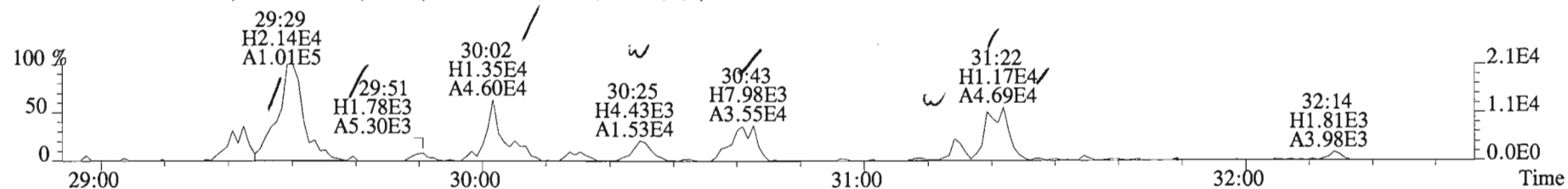
File:150226D1 #1-551 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



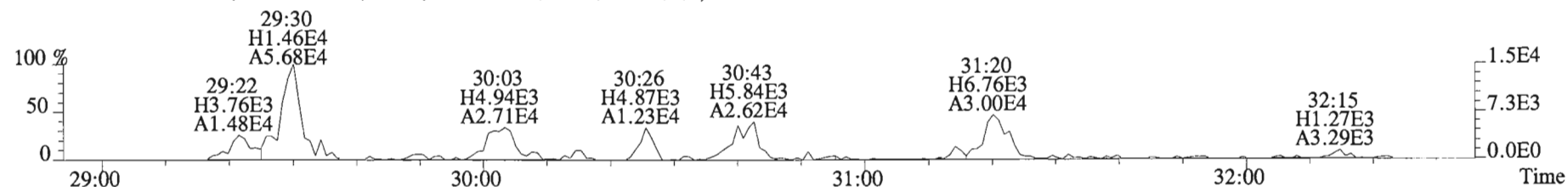
File:150226D1 #1-551 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text: Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



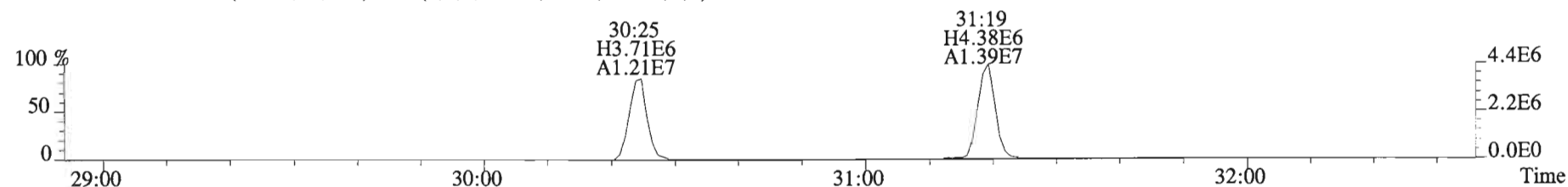
File:150226D1 #1-250 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
 339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



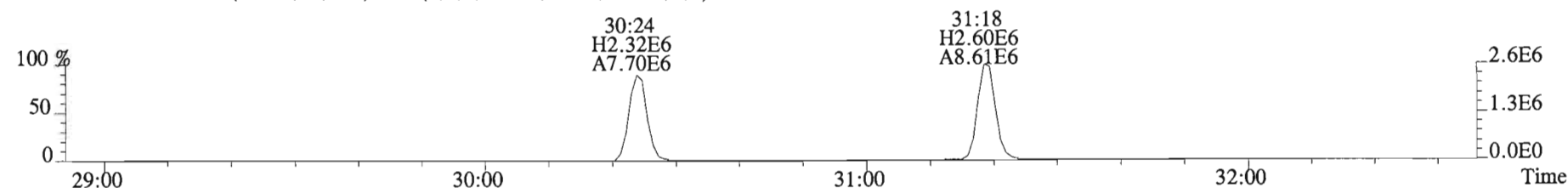
341.8568 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



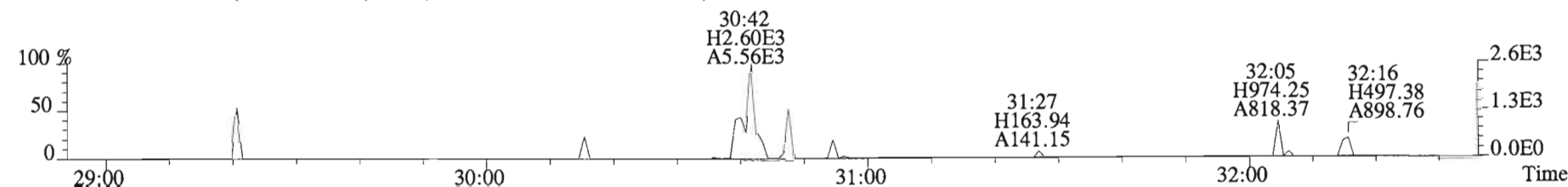
351.9000 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



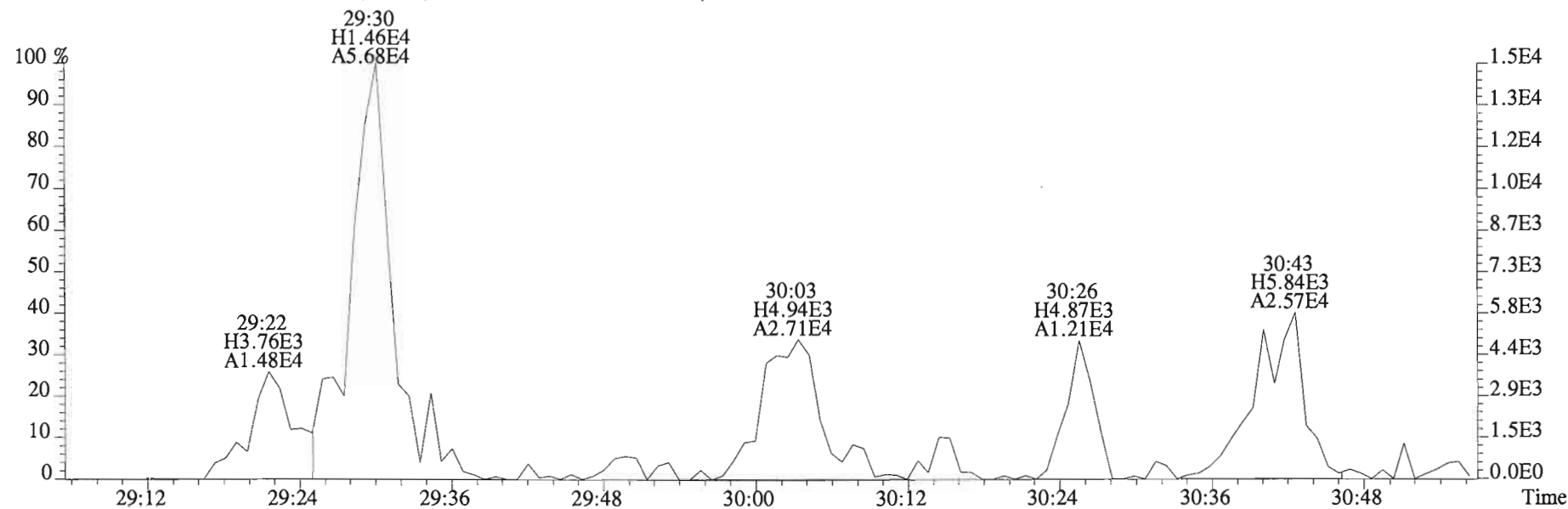
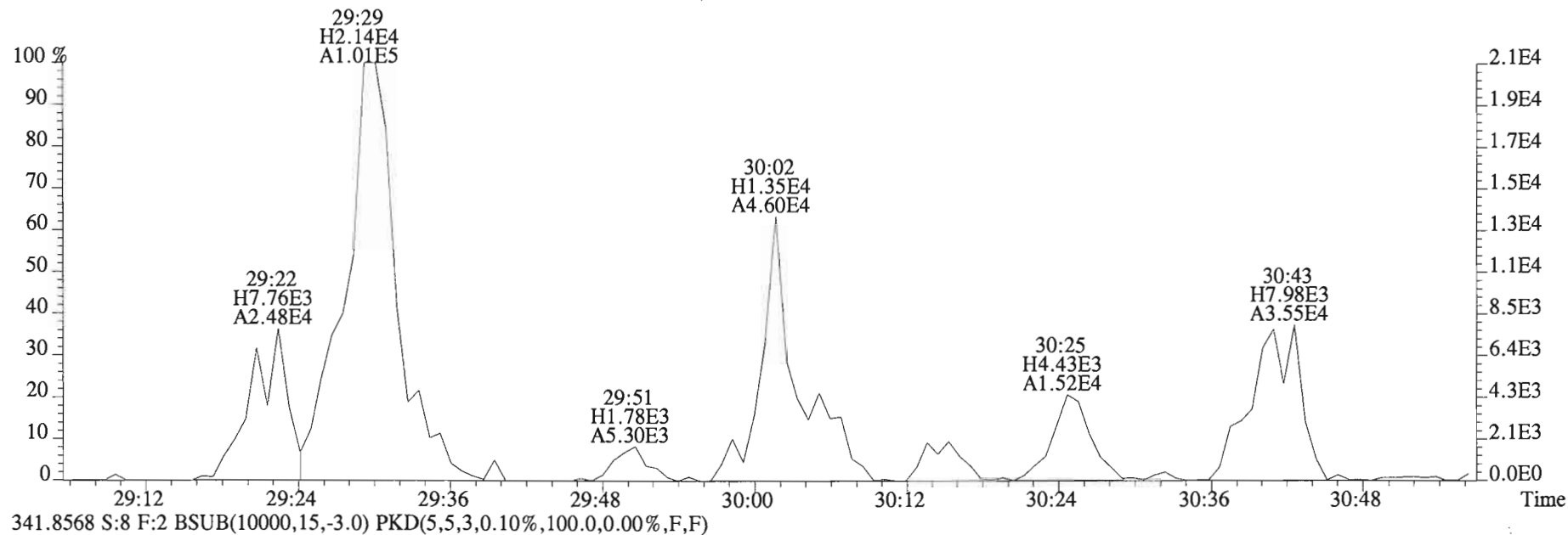
353.8970 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



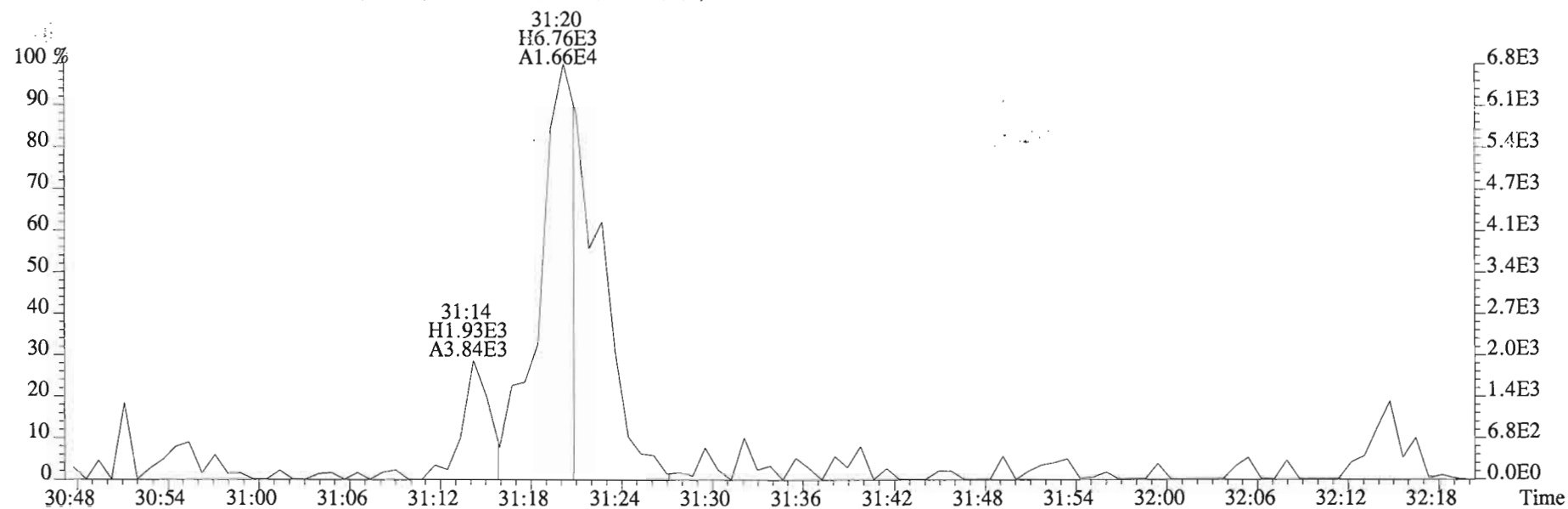
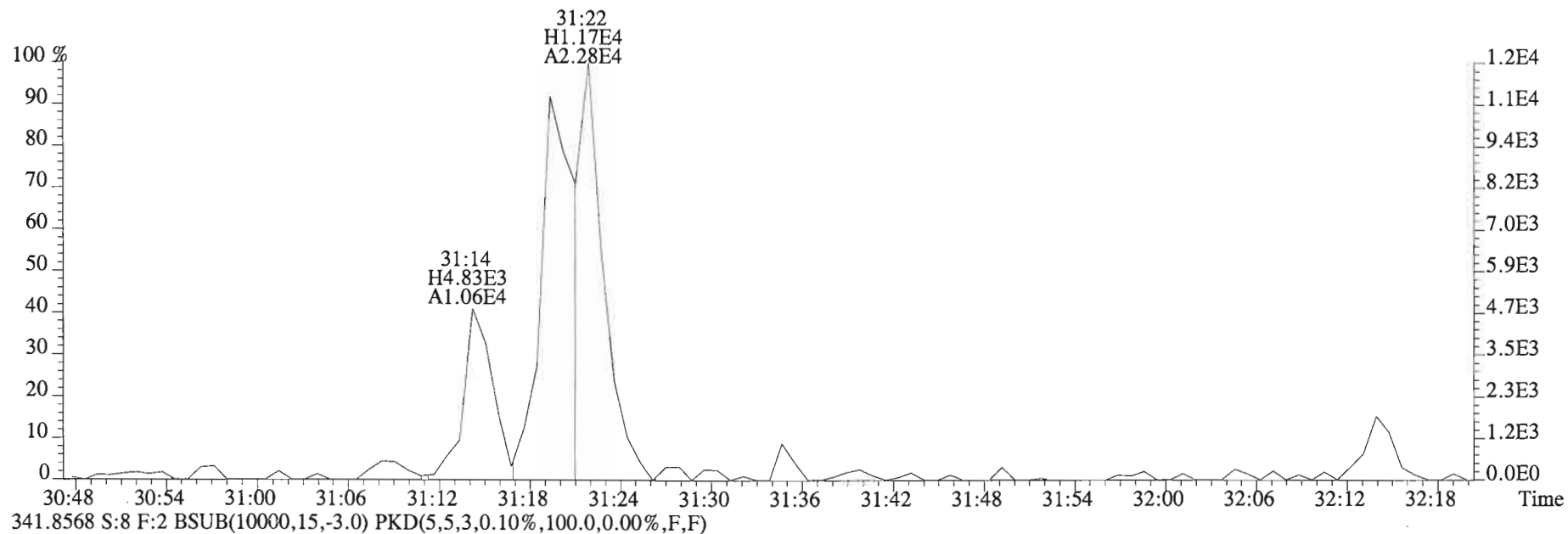
409.7974 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



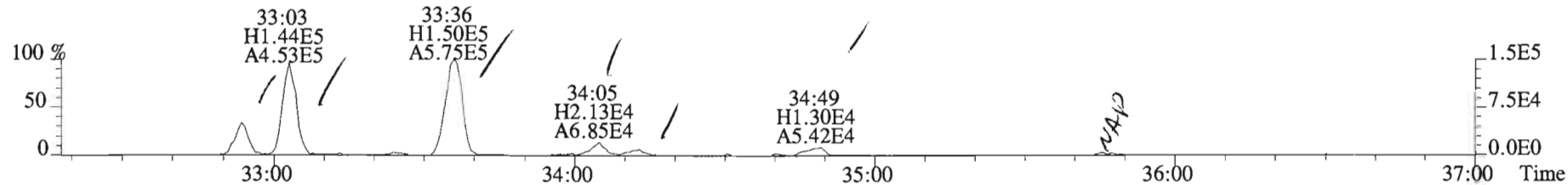
File:150226D1 #1-250 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text: Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
339.8597 S:8 F:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



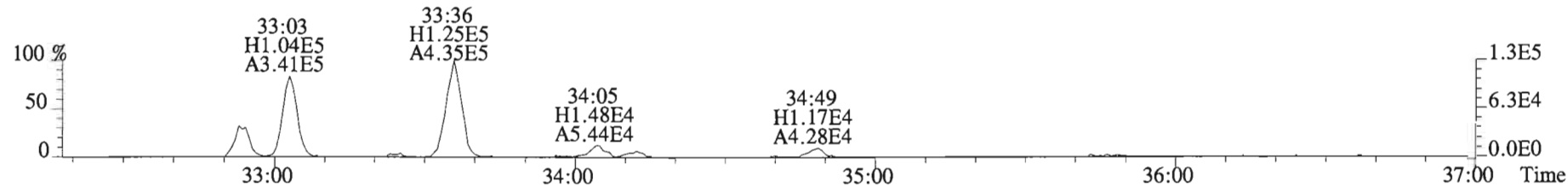
File:150226D1 #1-250 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



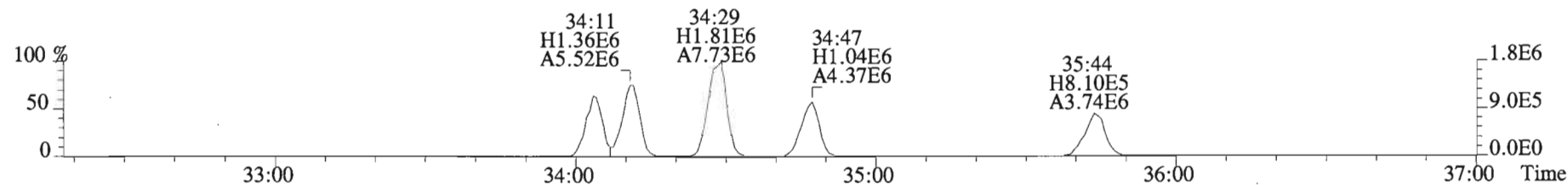
File:150226D1 #1-393 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



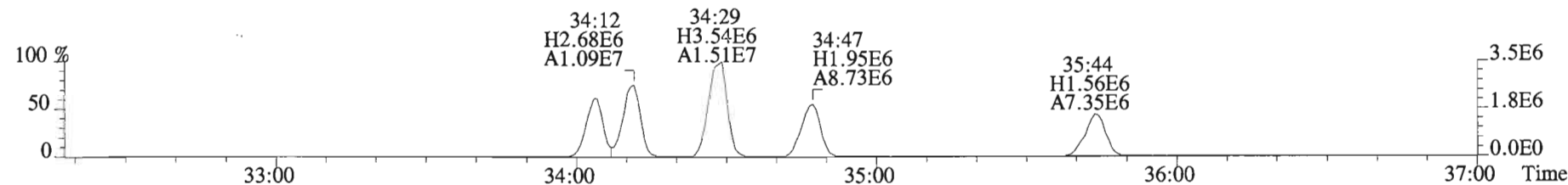
375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



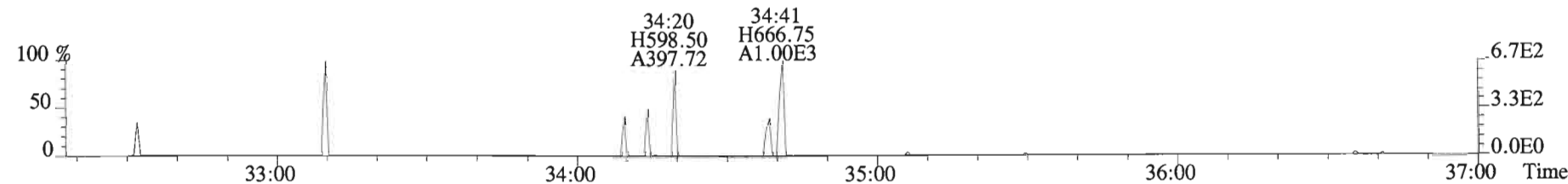
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



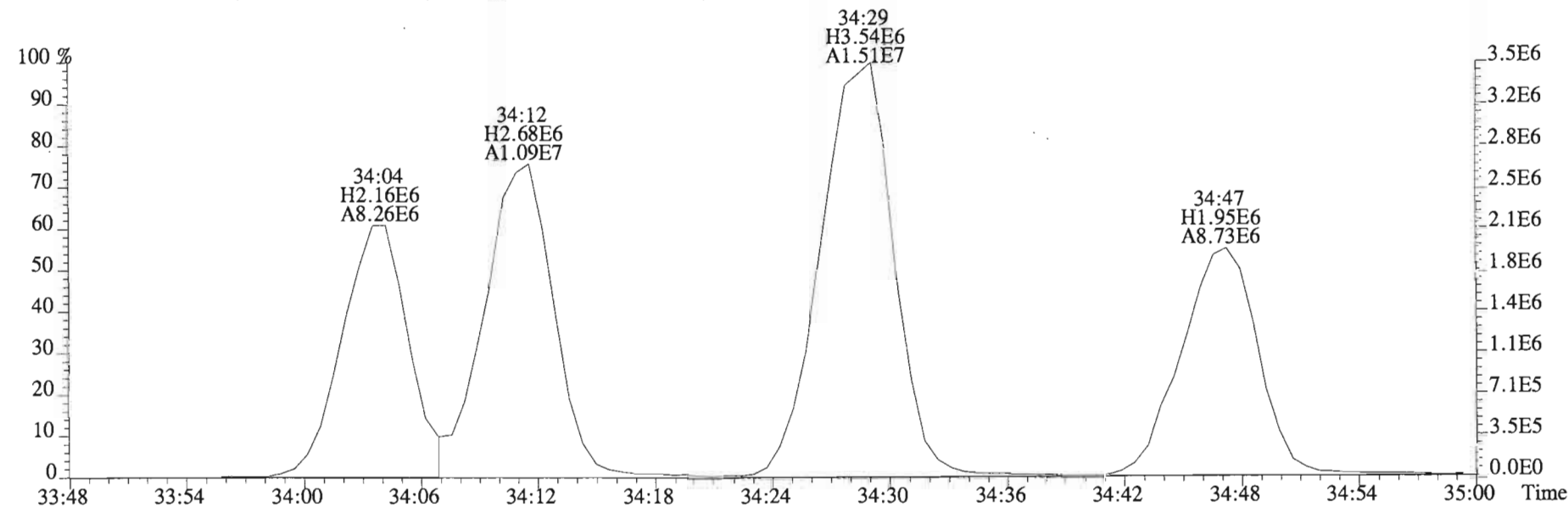
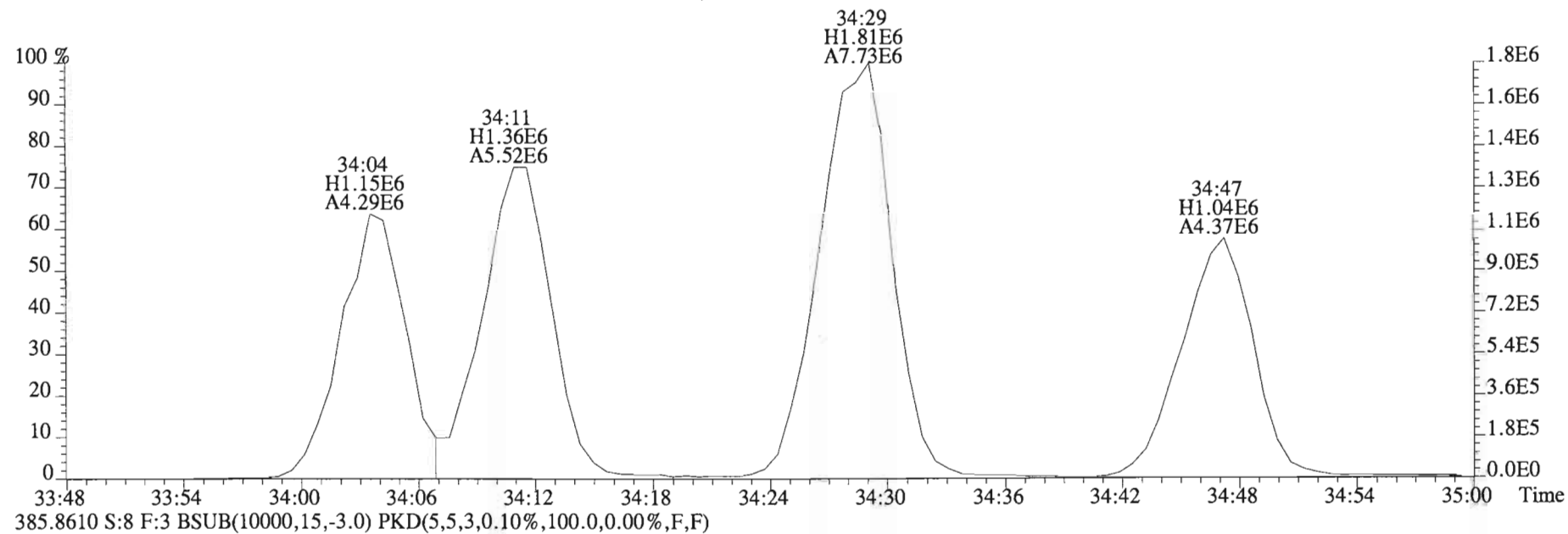
385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



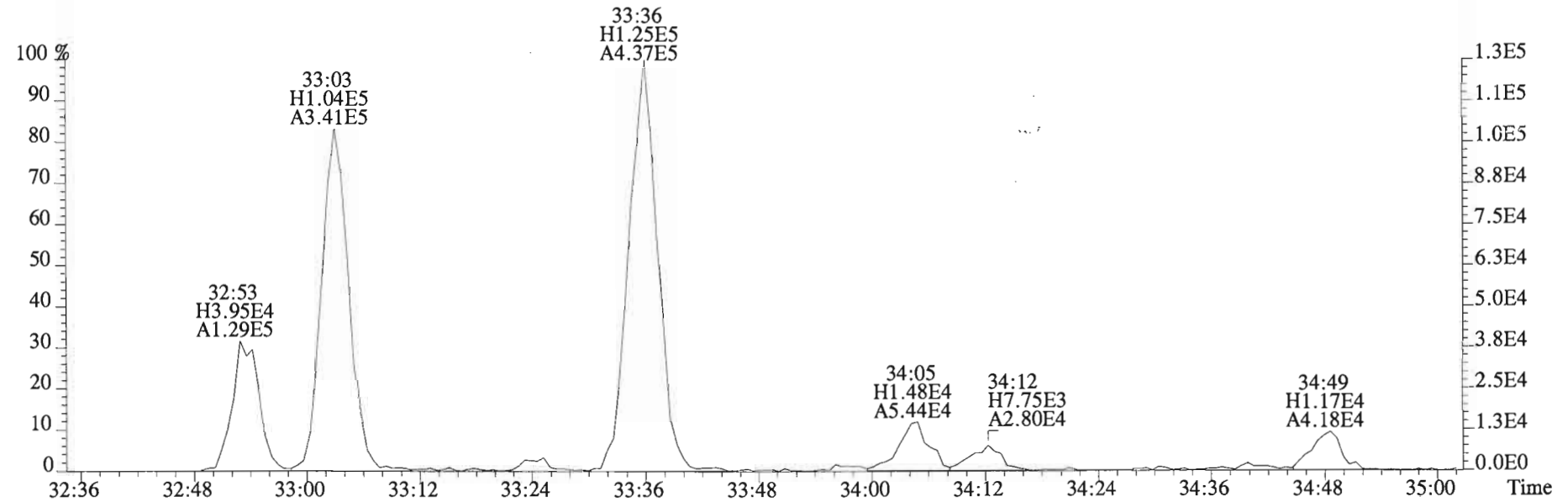
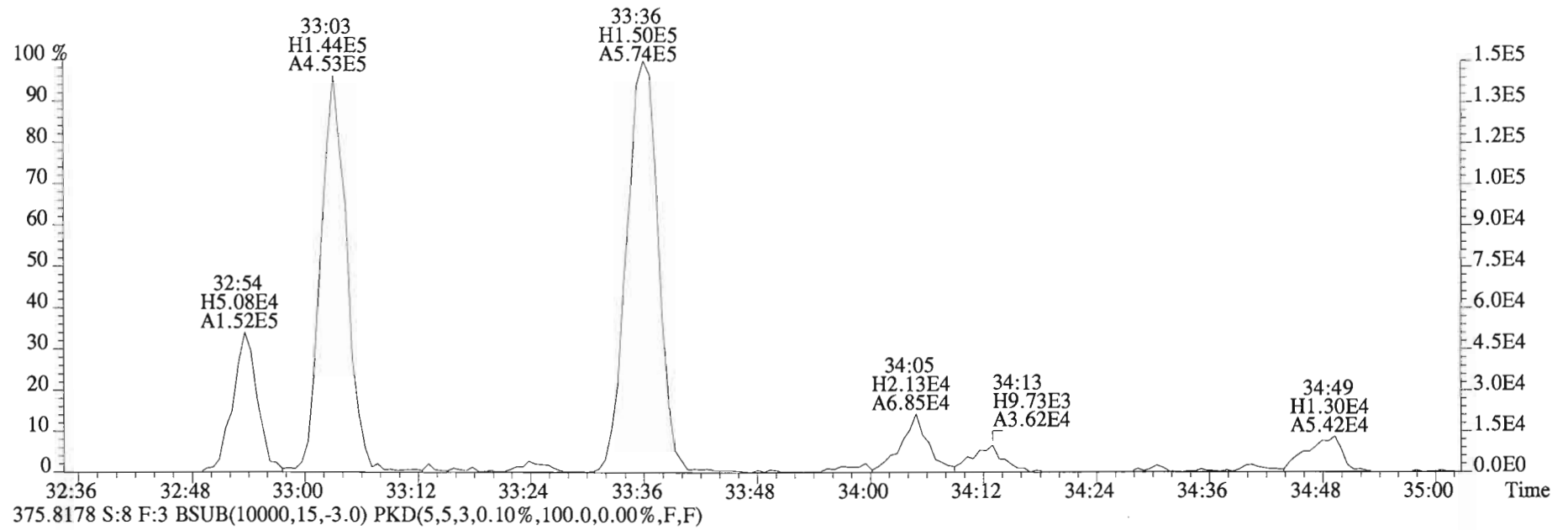
445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



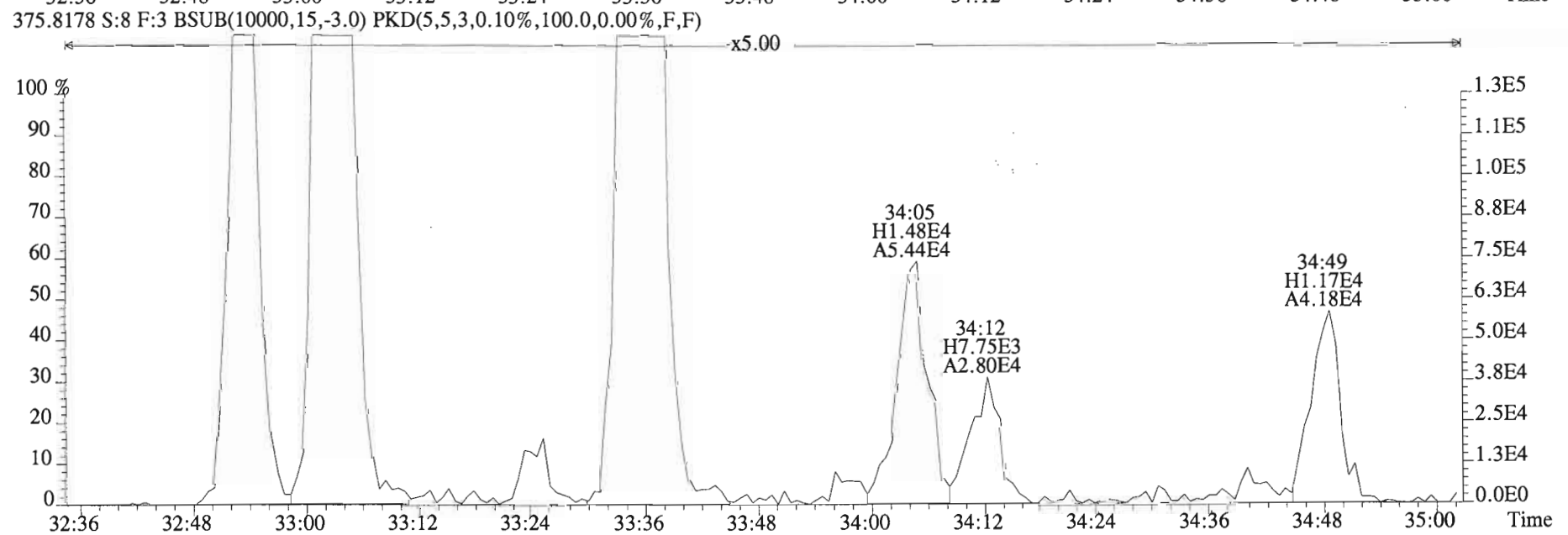
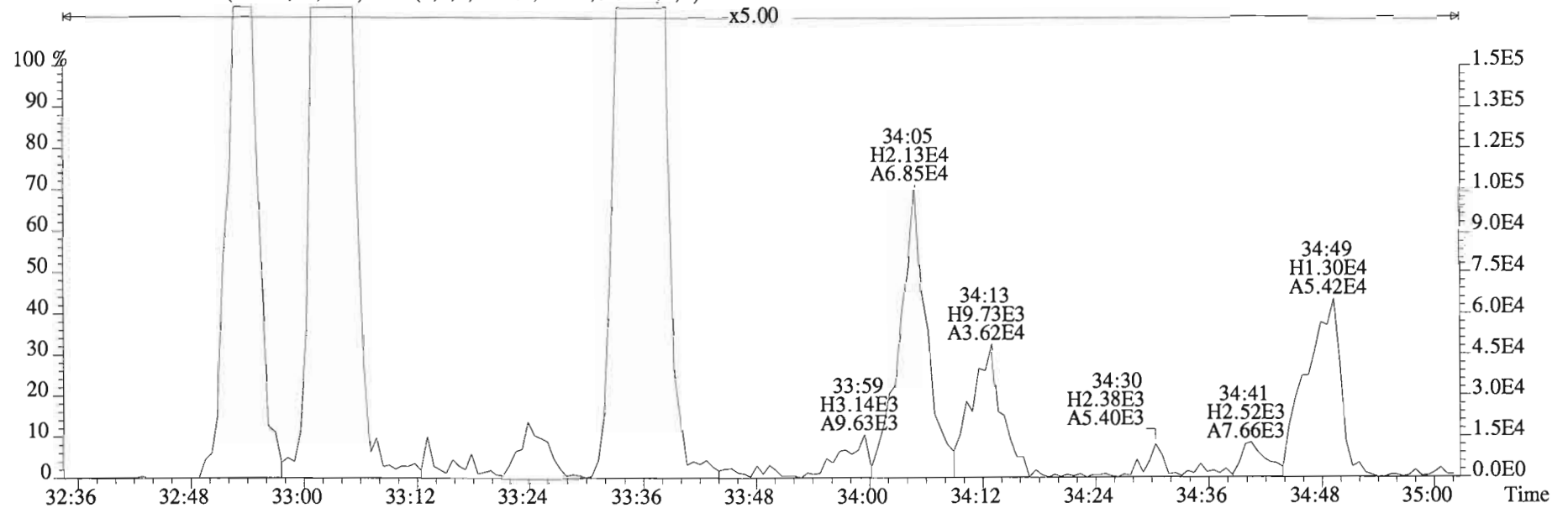
File:150226D1 #1-393 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



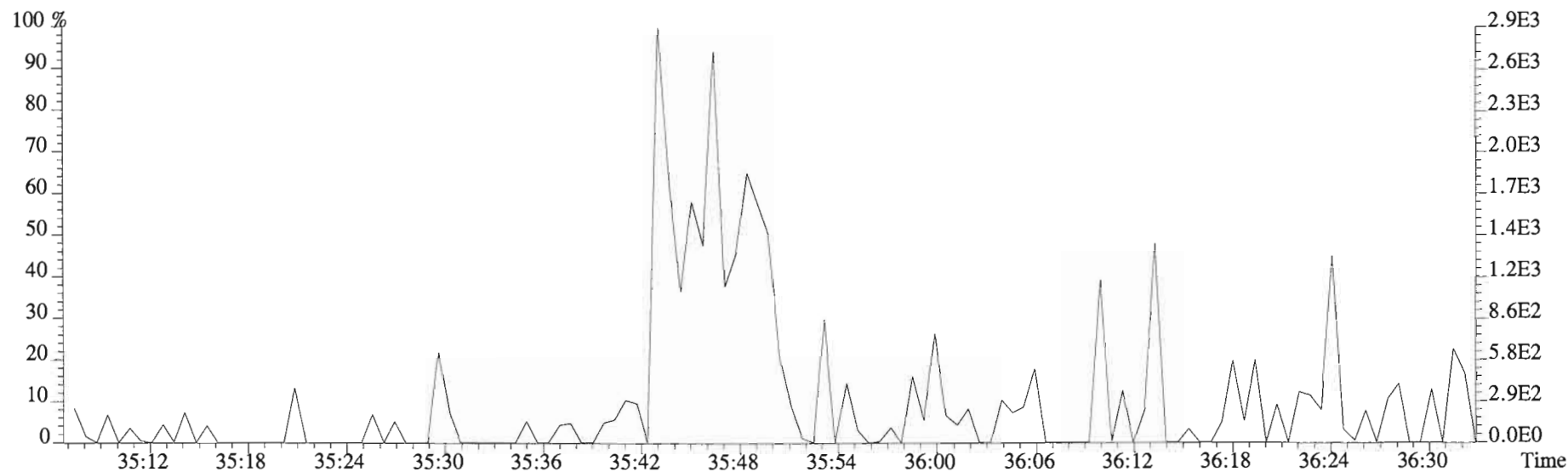
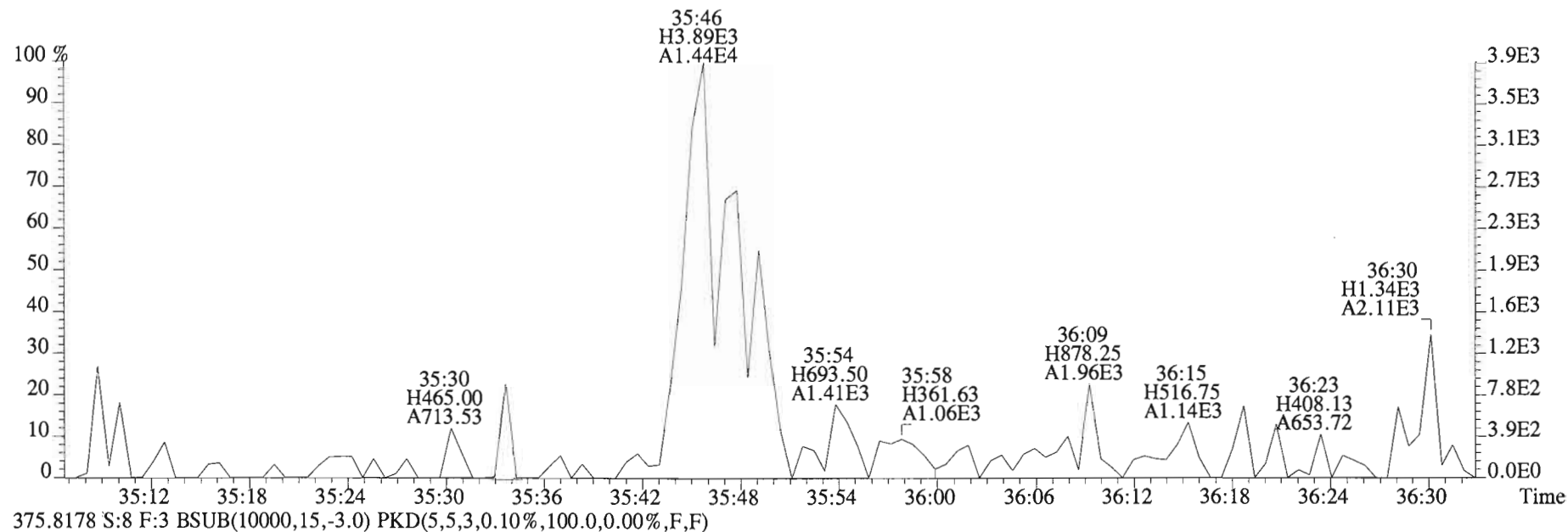
File:150226D1 #1-393 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
373.8207 S:8 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



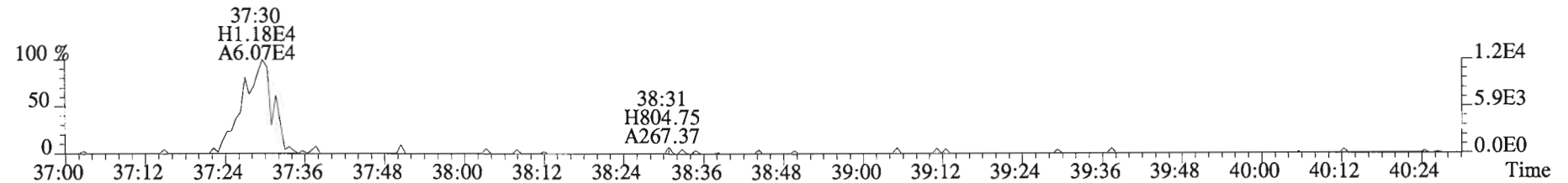
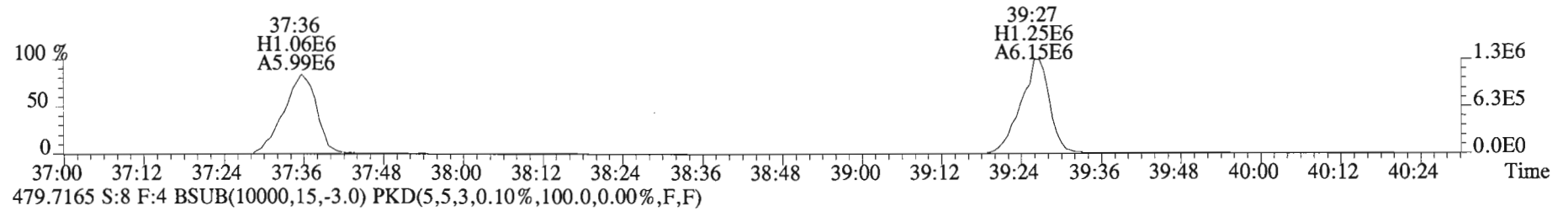
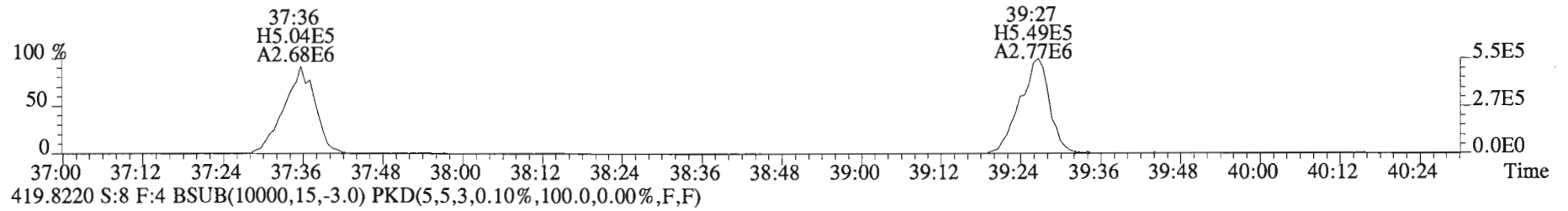
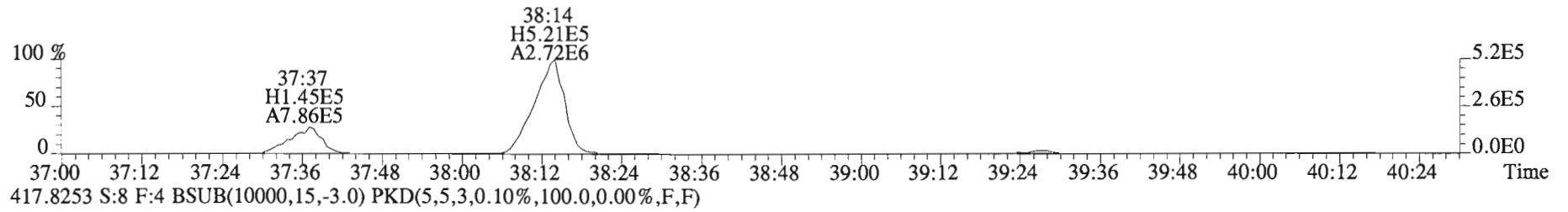
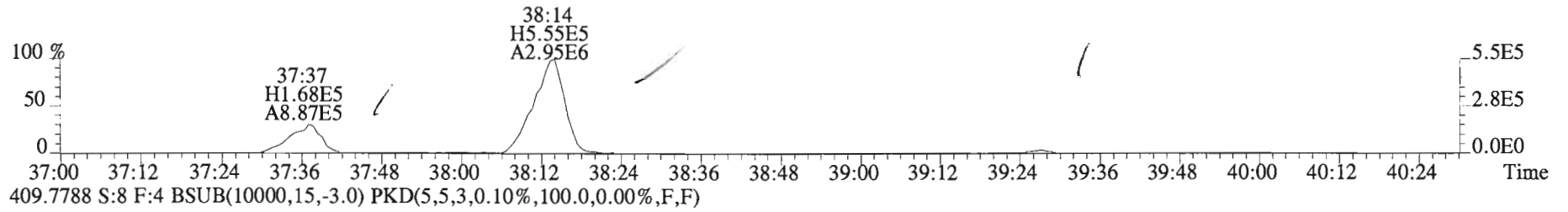
File:150226D1 #1-393 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
 373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



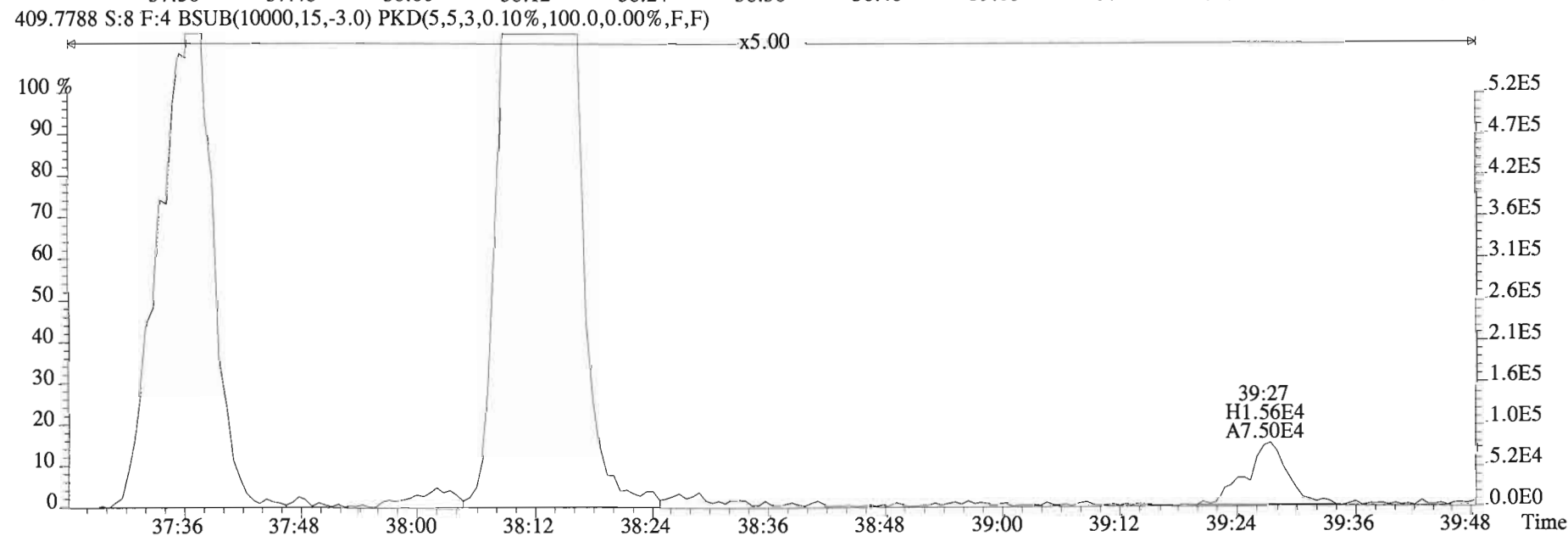
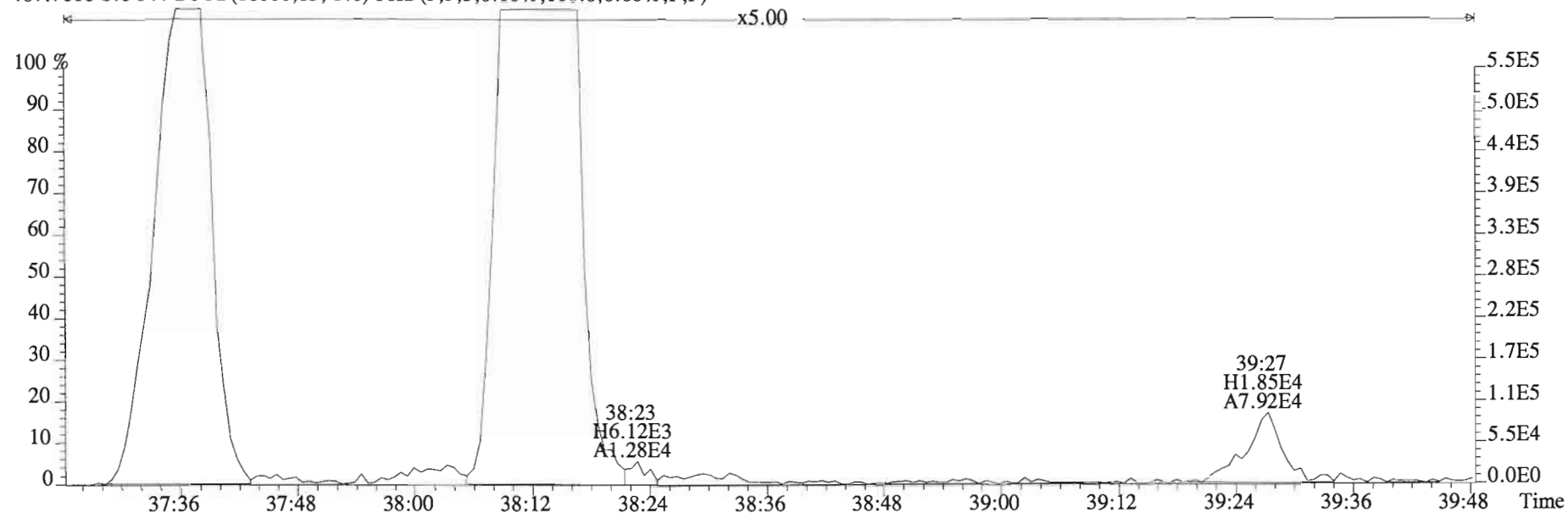
File:150226D1 #1-393 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



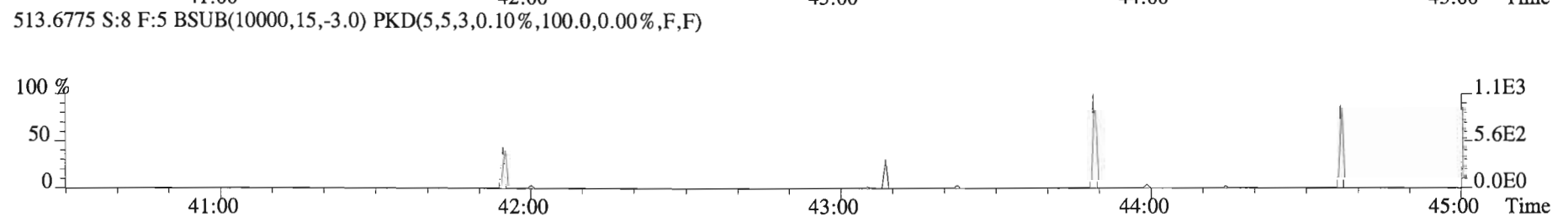
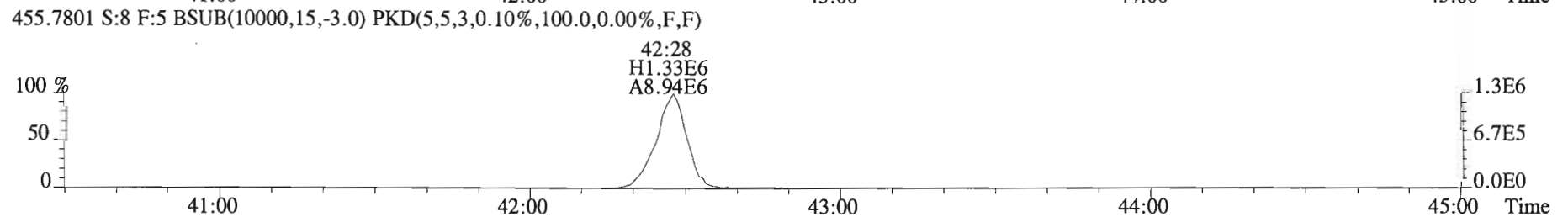
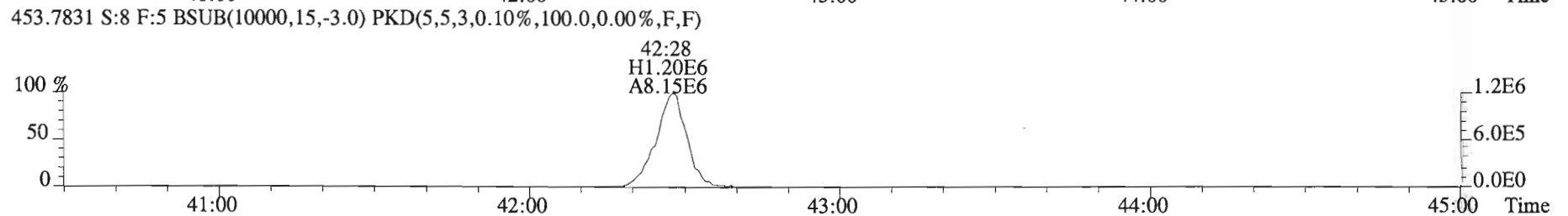
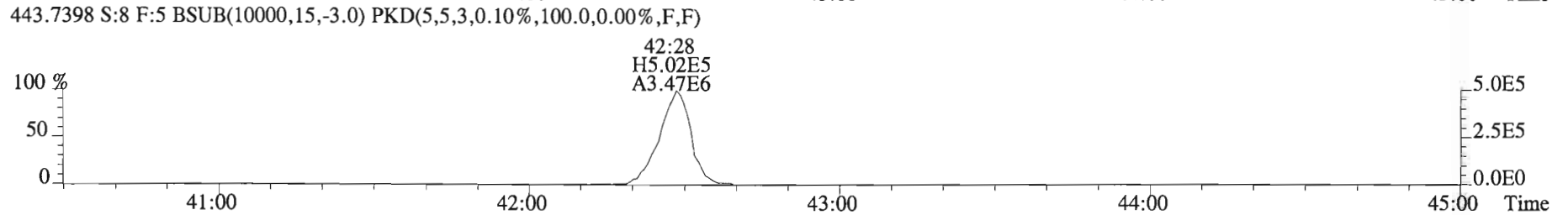
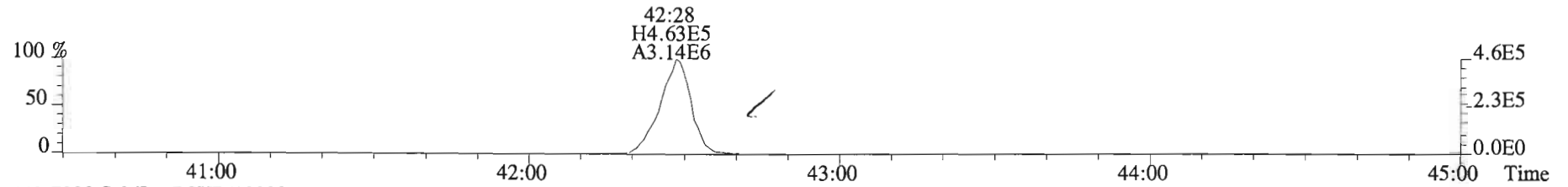
File:150226D1 #1-326 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:150226D1 #1-326 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:150226D1 #1-388 Acq:26-FEB-2015 15:21:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:1500166-01 ST-TS-01-20150210-W 1 Exp:OCDD_DB5
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Client ID: ST-FD-02-20150210-W
Lab ID: 1500166-02

Filename: 150226D1 S:9 Acq:26-FEB-15 16:10:32
GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.013

ConCal: ST150226D1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	7.06e+03	0.19 n	1.17	27:01	1.001	0.74983	*	2.5	*	*	Total Tetra-Dioxins	*	2.35	*	*	
1,2,3,7,8-PeCDD	2.10e+04	0.54 y	0.91	31:36	1.000	2.9064	*	2.5	*	*	Total Penta-Dioxins	17.1	22.3	*	*	
1,2,3,4,7,8-HxCDD	6.12e+04	1.13 y	1.08	34:58	1.000	10.430	*	2.5	*	*	Total Hexa-Dioxins	434	434	*	*	
1,2,3,6,7,8-HxCDD	1.97e+05	1.31 y	1.06	35:04	1.000	35.908	*	2.5	*	*	Total Hepta-Dioxins	4790	4790	*	*	
1,2,3,7,8,9-HxCDD	9.97e+04	1.29 y	0.93	35:22	1.000	17.653	*	2.5	*	*	Total Tetra-Furans	33.5	39.6	*	*	
1,2,3,4,6,7,8-HpCDD	7.07e+06	1.05 y	1.10	38:54	1.000	1320.2	*	2.5	*	*	Total Penta-Furans	62.473	63.530	*	*	
OCDD	5.72e+07	0.89 y	0.95	42:15	1.000	14760	*	2.5	*	*	Total Hexa-Furans	242	244	*	*	
											Total Hepta-Furans	871	871	*	*	
2,3,7,8-TCDF	3.06e+04	0.77 y	1.07	26:11	1.001	2.4614	*	2.5	*	*						
1,2,3,7,8-PeCDF	2.54e+04	1.35 y	1.07	30:25	1.000	2.0888	*	2.5	*	*						
2,3,4,7,8-PeCDF	3.89e+04	1.71 y	1.03	31:19	1.000	3.1370	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	1.07e+05	1.19 y	1.38	34:04	1.000	10.674	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	6.68e+04	1.06 y	1.26	34:12	1.000	5.8366	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	9.80e+04	1.07 y	1.29	34:47	1.000	10.201	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	1.12e+04	1.30 y	1.19	35:45	1.001	1.4558	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	1.63e+06	1.07 y	1.61	37:36	1.000	201.44	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	1.33e+05	1.08 y	1.53	39:27	1.000	17.635	*	2.5	*	*						
OCDF	6.27e+06	0.90 y	1.10	42:28	1.000	1183.3	*	2.5	*	*						
											Rec	Qual				
IS 13C-2,3,7,8-TCDD	1.59e+07	0.79 y	1.06	26:59	1.021	1506.3					76.3					
IS 13C-1,2,3,7,8-PeCDD	1.57e+07	0.62 y	1.18	31:36	1.197	1344.1					68.1					
IS 13C-1,2,3,4,7,8-HxCDD	1.08e+07	1.29 y	0.72	34:57	1.014	1298.2					65.8					
IS 13C-1,2,3,6,7,8-HxCDD	1.02e+07	1.26 y	0.74	35:04	1.017	1199.4					60.8					
IS 13C-1,2,3,7,8,9-HxCDD	1.20e+07	1.27 y	0.85	35:22	1.026	1220.9					61.8					
IS 13C-1,2,3,4,6,7,8-HpCDD	9.58e+06	1.06 y	0.65	38:54	1.128	1274.4					64.5					
IS 13C-OCDD	1.61e+07	0.90 y	0.76	42:15	1.225	1837.3					46.5					
IS 13C-2,3,7,8-TCDF	2.29e+07	0.76 y	0.92	26:10	0.991	1437.2					72.8					
IS 13C-1,2,3,7,8-PeCDF	2.24e+07	1.57 y	0.92	30:25	1.151	1397.5					70.8					
IS 13C-2,3,4,7,8-PeCDF	2.37e+07	1.58 y	0.93	31:19	1.186	1465.7					74.2					
IS 13C-1,2,3,4,7,8-HxCDF	1.43e+07	0.52 y	0.98	34:04	0.988	1269.6					64.3					
IS 13C-1,2,3,6,7,8-HxCDF	1.80e+07	0.51 y	1.08	34:11	0.992	1443.2					73.1					
IS 13C-2,3,4,6,7,8-HxCDF	1.47e+07	0.52 y	1.03	34:47	1.009	1247.2					63.2					
IS 13C-1,2,3,7,8,9-HxCDF	1.29e+07	0.51 y	0.86	35:44	1.036	1299.3					65.8					
IS 13C-1,2,3,4,6,7,8-HpCDF	9.94e+06	0.44 y	0.72	37:35	1.090	1197.9					60.7					
IS 13C-1,2,3,4,7,8,9-HpCDF	9.78e+06	0.45 y	0.70	39:26	1.144	1219.9					61.8					
IS 13C-OCDF	1.91e+07	0.88 y	0.85	42:27	1.232	1951.5					49.4					
C/Up 37Cl-2,3,7,8-TCDD	9.50e+06		1.12	27:00	1.023	856.04					108					
											Integrations					
											by					
RS/RT 13C-1,2,3,4-TCDD	1.96e+07	0.81 y	1.00	26:25	*	1974.4					Analyst: <u> </u>					
RS 13C-1,2,3,4-TCDF	3.43e+07	0.77 y	1.00	24:54	*	1974.4					Analyst: <u> </u>					
RS/RT 13C-1,2,3,4,6,9-HxCDF	2.27e+07	0.52 y	1.00	34:28	*	1974.4					Date: <u>2/27/15</u>					
											Date: <u>2/27/15</u>					

Totals class: TCDD EMPC

Entry #: 19

Run: 11 File: 150226D1 S: 9 I: 1 F: 1
Acquired: 26-FEB-15 16:10:32 Processed: 27-FEB-15 08:00:47

Total Concentration: 2.3479

Unnamed Concentration: 1.598

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
23:28	6.543e+03	1.185e+04	0.55	n	1.504e+04	1.5980
27:01	3.070e+03	1.627e+04	0.19	n	7.057e+03	0.74983 2,3,7,8-TCDD

Totals class: PeCDD EMPC

Entry #: 21

Run: 11 File: 150226D1 S: 9 I: 1 F: 2
 Acquired: 26-FEB-15 16:10:32 Processed: 27-FEB-15 08:00:47

Total Concentration: 22.305

Unnamed Concentration: 19.398

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
29:32	1.625e+04	3.016e+04	0.54	y	4.641e+04	6.4138
29:59	7.179e+03	1.311e+04	0.55	y	2.029e+04	2.8043
30:26	9.414e+03	1.257e+04	0.75	n	2.048e+04	2.8307
30:36	6.523e+03	1.435e+04	0.45	n	1.688e+04	2.3324
30:41	4.832e+03	6.749e+03	0.72	y	1.158e+04	1.6005
30:56	9.953e+03	1.477e+04	0.67	y	2.472e+04	3.4167
31:36	7.385e+03	1.365e+04	0.54	y	2.103e+04	2.9064
						1,2,3,7,8-PeCDD

Totals class: HxCDD EMPC

Entry #: 23

Run: 11 File: 150226D1 S: 9 I: 1 F: 3
 Acquired: 26-FEB-15 16:10:32 Processed: 27-FEB-15 08:00:47

Total Concentration: 434.01 Unnamed Concentration: 370.022

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
33:25	5.487e+05	4.166e+05	1.32 y	9.652e+05	170.53
34:00	7.304e+04	5.135e+04	1.42 y	1.244e+05	21.976
34:15	4.409e+05	3.623e+05	1.22 y	8.032e+05	141.90
34:24	8.162e+04	6.972e+04	1.17 y	1.513e+05	26.737
34:58	3.242e+04	2.881e+04	1.13 y	6.123e+04	10.430 1,2,3,4,7,8-HxCDD
35:04	1.117e+05	8.494e+04	1.31 y	1.966e+05	35.908 1,2,3,6,7,8-HxCDD
35:16	2.864e+04	2.165e+04	1.32 y	5.029e+04	8.8846
35:22	5.620e+04	4.354e+04	1.29 y	9.974e+04	17.653 1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC

Entry #: 25

Run: 11

File: 150226D1

S: 9 I: 1 F: 4

Acquired: 26-FEB-15 16:10:32

Processed: 27-FEB-15 08:00:47

Total Concentration: 4788.7

Unnamed Concentration: 3468.528

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
38:01	9.533e+06	9.052e+06	1.05 y	1.859e+07	3468.5	
38:54	3.616e+06	3.459e+06	1.05 y	7.074e+06	1320.2	1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC

Entry #: 27

Run: 11 File: 150226D1 S: 9 I: 1 F: 1
 Acquired: 26-FEB-15 16:10:32 Processed: 27-FEB-15 08:00:47

Total Concentration: 39.578 Unnamed Concentration: 37.117

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name	
21:49	5.954e+03	8.858e+03	0.67	y	1.481e+04	1.1921	
22:27	1.640e+04	2.524e+04	0.65	n	3.769e+04	3.0331	
23:01	2.487e+04	3.565e+04	0.70	y	6.052e+04	4.8705	
23:25	2.141e+04	3.065e+04	0.70	y	5.206e+04	4.1900	
23:52	1.231e+04	1.343e+04	0.92	n	2.376e+04	1.9124	
23:59	1.446e+04	1.957e+04	0.74	y	3.403e+04	2.7389	
24:10	1.984e+04	2.357e+04	0.84	y	4.341e+04	3.4939	
24:40	4.450e+03	5.395e+03	0.82	y	9.845e+03	0.79234	
24:48	1.154e+04	1.447e+04	0.80	y	2.601e+04	2.0931	
24:55	1.736e+04	2.197e+04	0.79	y	3.933e+04	3.1653	
25:22	5.967e+03	1.478e+04	0.40	n	1.372e+04	1.1040	
25:37	5.348e+03	6.356e+03	0.84	y	1.170e+04	0.94189	
25:49	3.790e+03	5.439e+03	0.70	y	9.229e+03	0.74275	
25:59	7.390e+03	1.115e+04	0.66	y	1.854e+04	1.4923	
26:04	4.970e+03	7.517e+03	0.66	y	1.249e+04	1.0050	
26:11	1.330e+04	1.729e+04	0.77	y	3.058e+04	2.4614	2,3,7,8-TCDF
26:32	2.436e+04	2.968e+04	0.82	y	5.404e+04	4.3489	

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 11 File: 150226D1 S: 9 I: 1 F: 1
Acquired: 26-FEB-15 16:10:32 Processed: 27-FEB-15 08:00:47

Total Concentration: 29.361 Unnamed Concentration: 29.361

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
28:01	2.238e+05	1.369e+05	1.63 y	3.607e+05	29.361

Totals class: PeCDF EMPC

Entry #: 31

Run: 11 File: 150226D1 S: 9 I: 1 F: 2
Acquired: 26-FEB-15 16:10:32 Processed: 27-FEB-15 08:00:47

Total Concentration: 34.169 Unnamed Concentration: 28.943

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
29:22	2.552e+04	1.835e+04	1.39	y	4.387e+04	3.5710
29:29	9.967e+04	6.398e+04	1.56	y	1.636e+05	13.319
30:03	3.691e+04	2.511e+04	1.47	y	6.202e+04	5.0478
30:25	1.459e+04	1.083e+04	1.35	y	2.542e+04	2.0888 1,2,3,7,8-PeCDF
30:40	2.472e+04	1.538e+04	1.61	y	4.011e+04	3.2645
31:14	1.088e+04	5.093e+03	2.14	n	1.299e+04	1.0571
31:19	2.453e+04	1.434e+04	1.71	y	3.887e+04	3.1370 2,3,4,7,8-PeCDF
31:23	1.966e+04	1.331e+04	1.48	y	3.297e+04	2.6833

Totals class: HxCDF EMPC

Entry #: 33

Run: 11 File: 150226D1 S: 9 I: 1 F: 3
 Acquired: 26-FEB-15 16:10:32 Processed: 27-FEB-15 08:00:47

Total Concentration: 243.99 Unnamed Concentration: 215.826

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
32:54	1.562e+05	1.193e+05	1.31 y	2.755e+05	28.360
33:03	4.302e+05	3.373e+05	1.28 y	7.675e+05	79.010
33:25	1.034e+04	1.056e+04	0.98 n	1.868e+04	1.9229
33:35	5.675e+05	4.342e+05	1.31 y	1.002e+06	103.11
33:58	9.417e+03	8.805e+03	1.07 y	1.822e+04	1.8758
34:04	5.828e+04	4.889e+04	1.19 y	1.072e+05	10.674 1,2,3,4,7,8-HxCDF
34:12	3.436e+04	3.244e+04	1.06 y	6.680e+04	5.8366 1,2,3,6,7,8-HxCDF
34:47	5.071e+04	4.731e+04	1.07 y	9.802e+04	10.201 2,3,4,6,7,8-HxCDF
35:45	6.363e+03	4.879e+03	1.30 y	1.124e+04	1.4558 1,2,3,7,8,9-HxCDF
35:48	7.935e+03	7.055e+03	1.12 y	1.499e+04	1.5431

Totals class: HpCDF EMPC

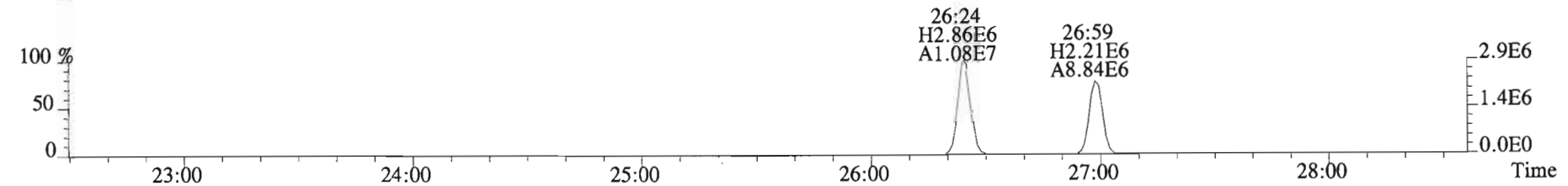
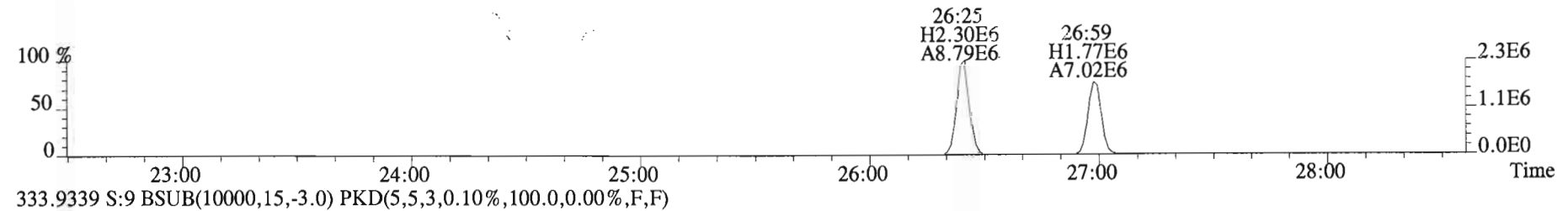
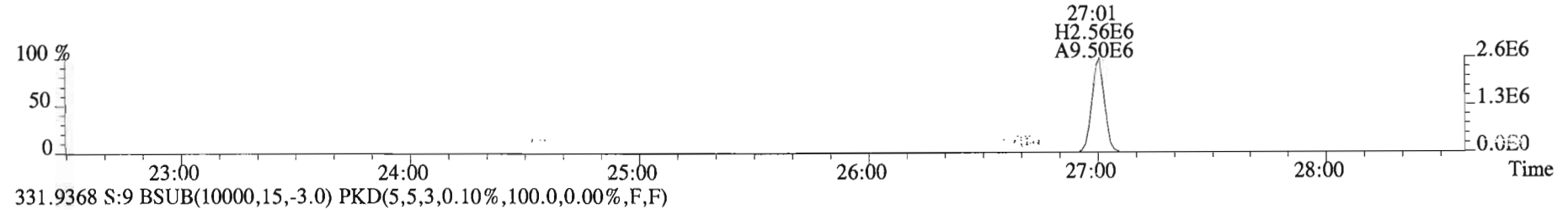
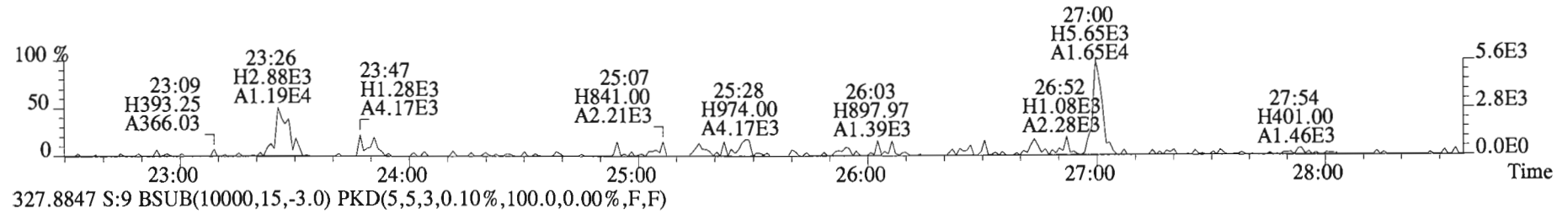
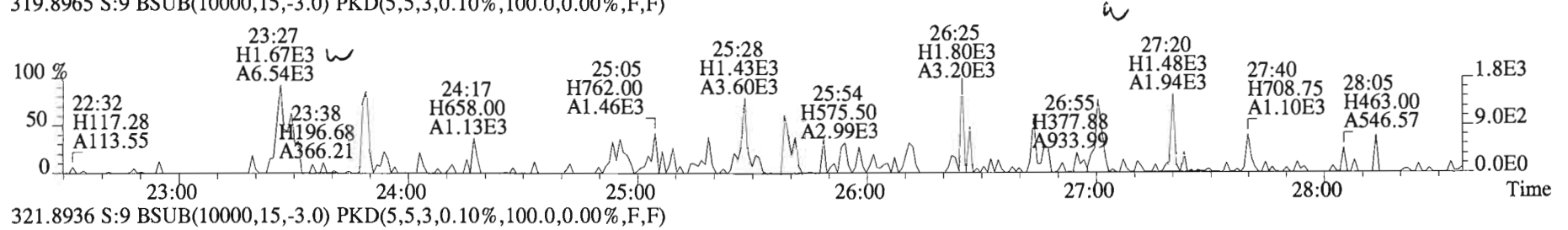
Entry #: 35

Run: 11 File: 150226D1 S: 9 I: 1 F: 4
Acquired: 26-FEB-15 16:10:32 Processed: 27-FEB-15 08:00:47

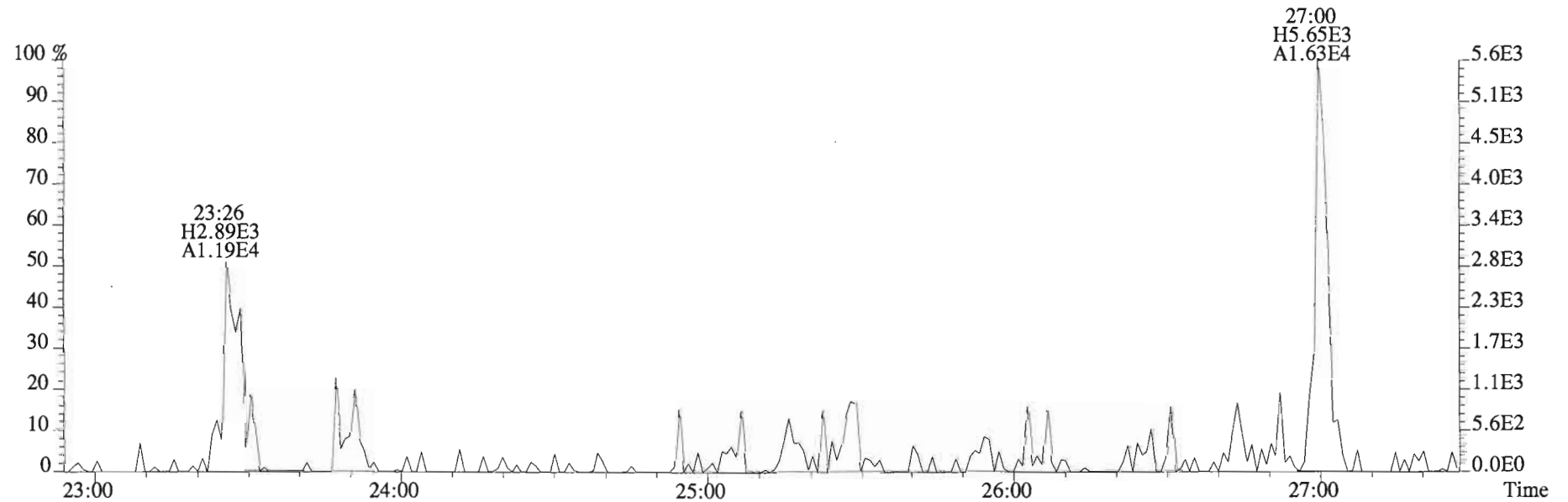
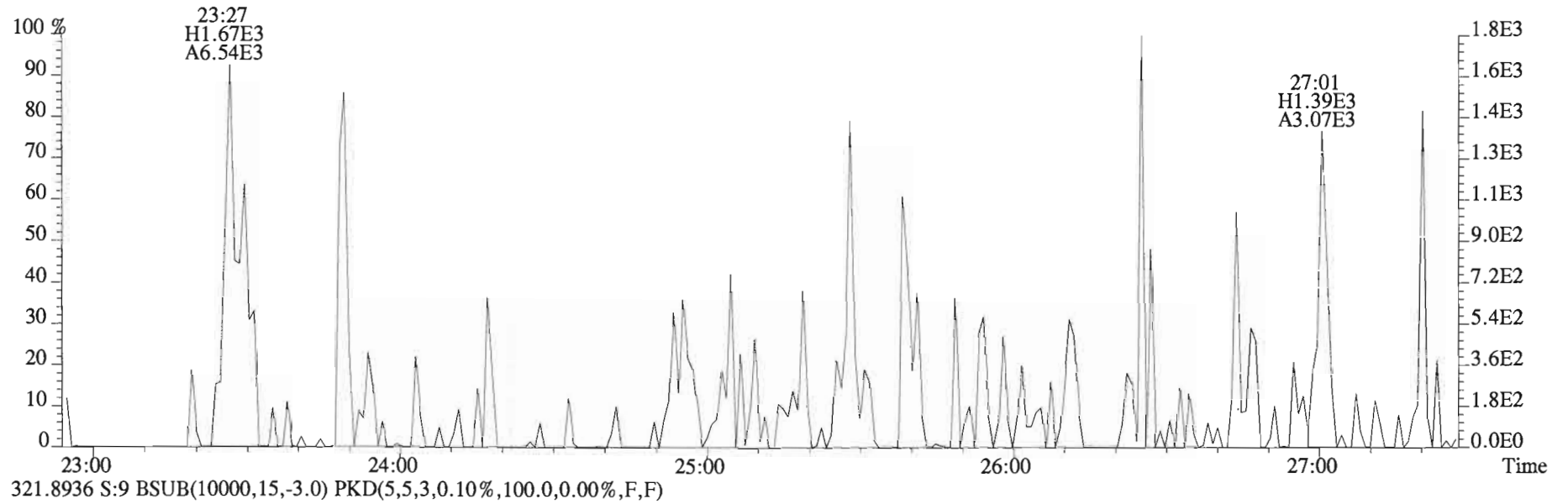
Total Concentration: 871.49 Unnamed Concentration: 652.411

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name	
37:36	8.451e+05	7.898e+05	1.07	y	1.635e+06	201.44	1,2,3,4,6,7,8-HpCDF
38:13	2.653e+06	2.460e+06	1.08	y	5.113e+06	652.41	
39:27	6.928e+04	6.400e+04	1.08	y	1.333e+05	17.635	1,2,3,4,7,8,9-HpCDF

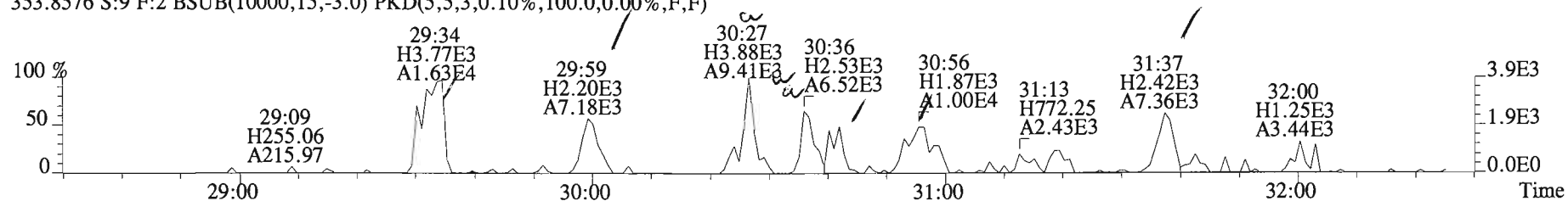
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Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
319.8965 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



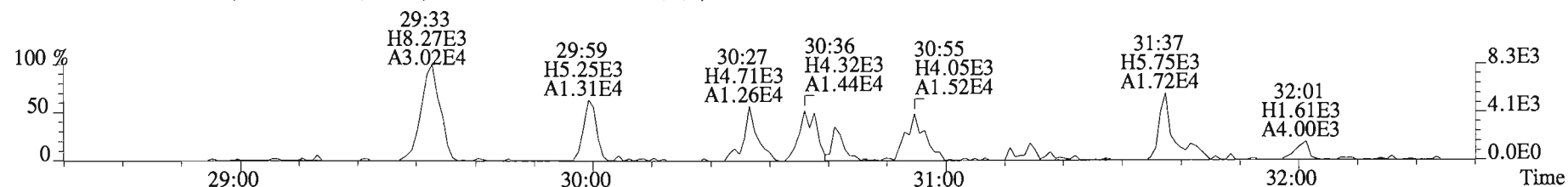
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Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
319.8965 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



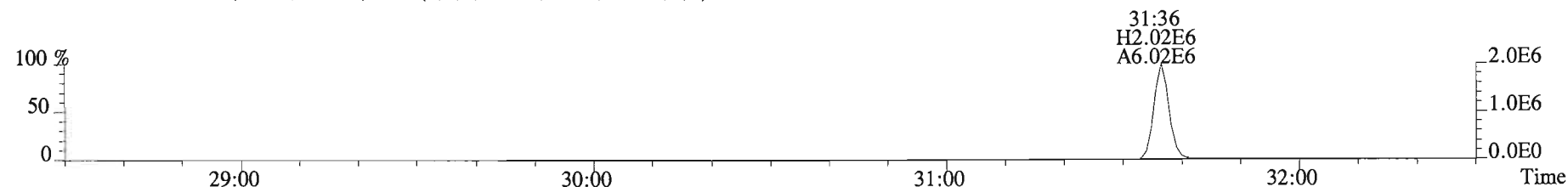
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Sample#9 File Text: Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
353.8576 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



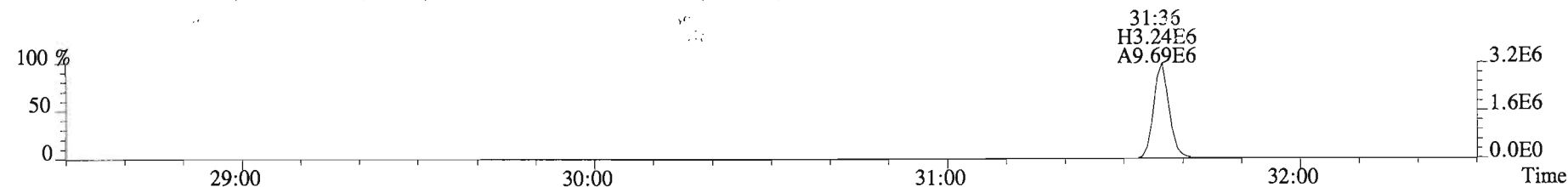
355.8546 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



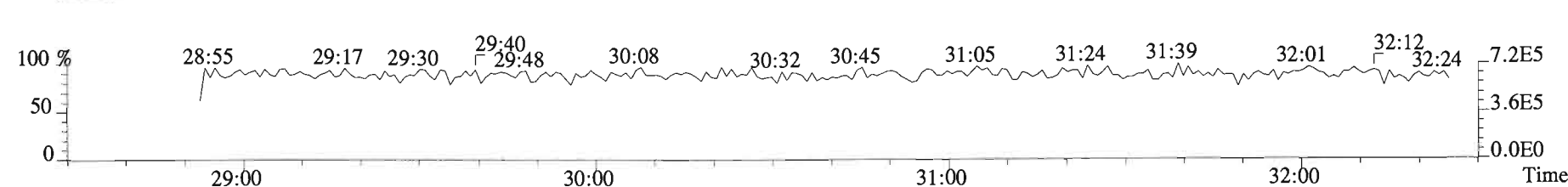
365.8978 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



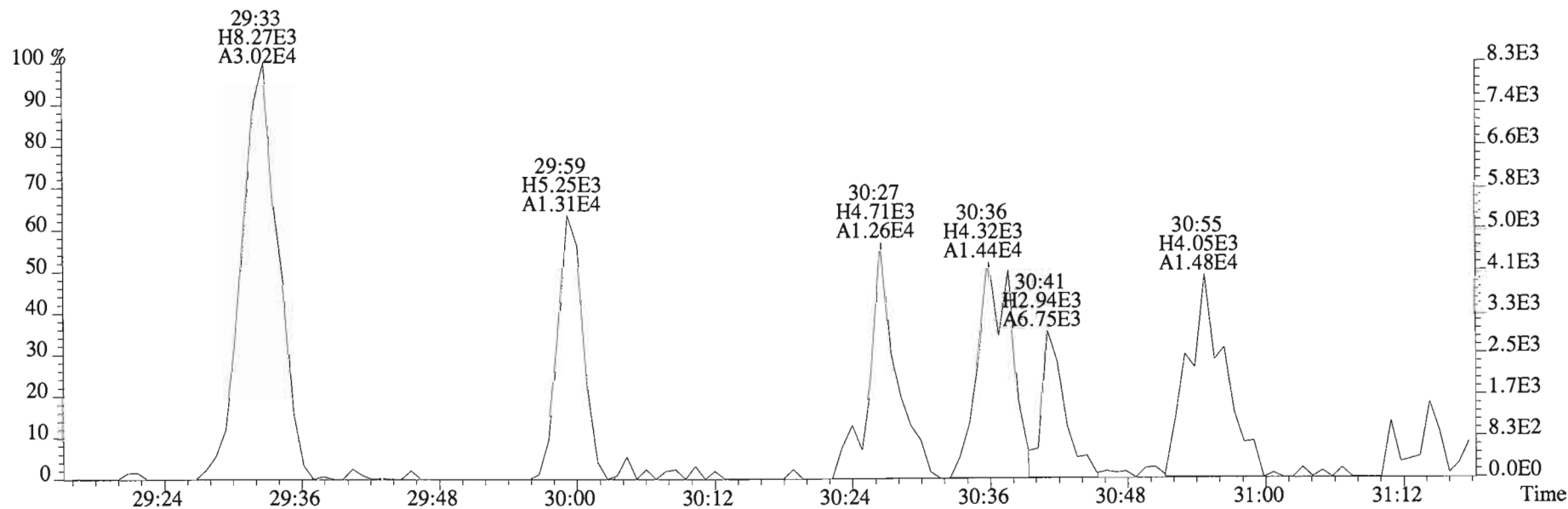
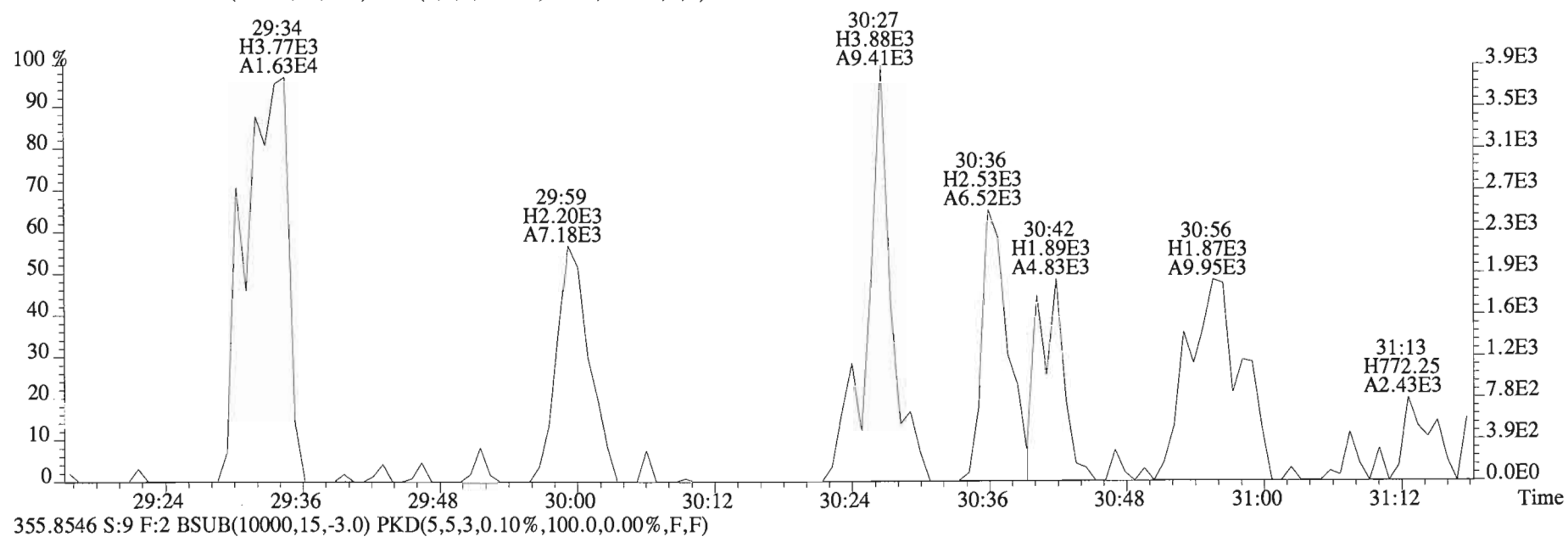
367.8949 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



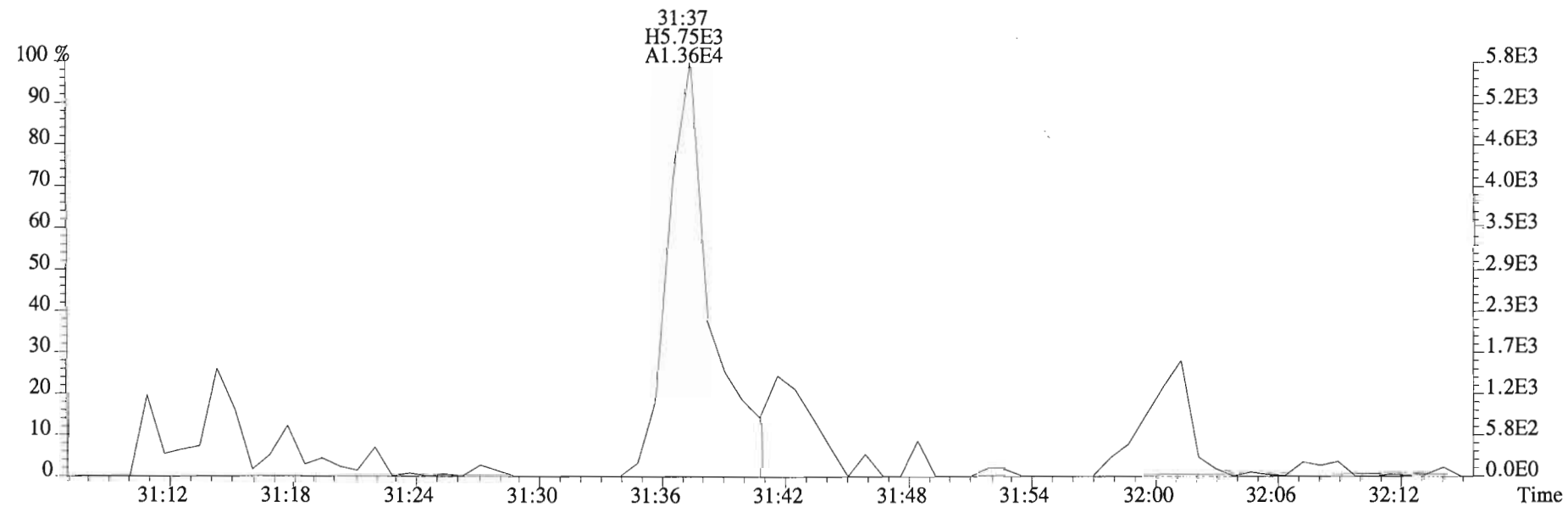
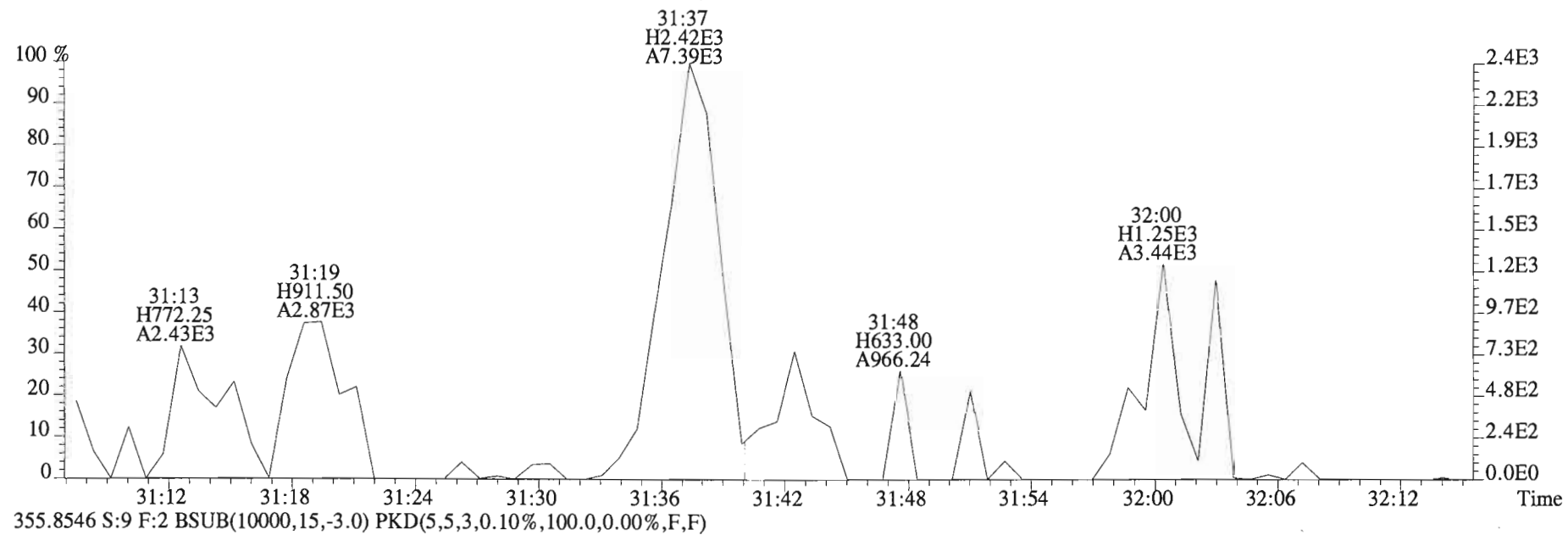
366.9792 S:9 F:2



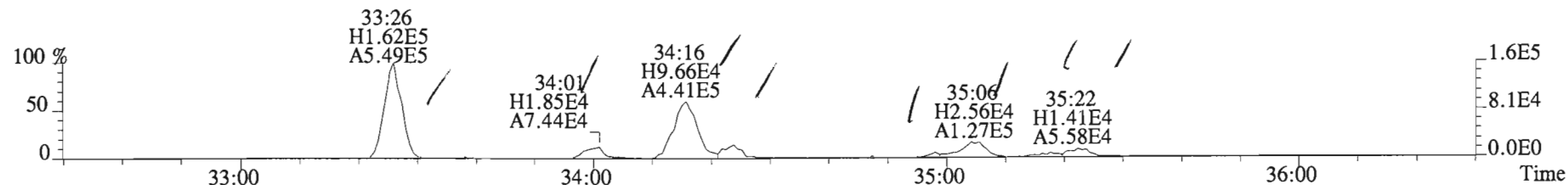
File:150226D1 #1-250 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
353.8576 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



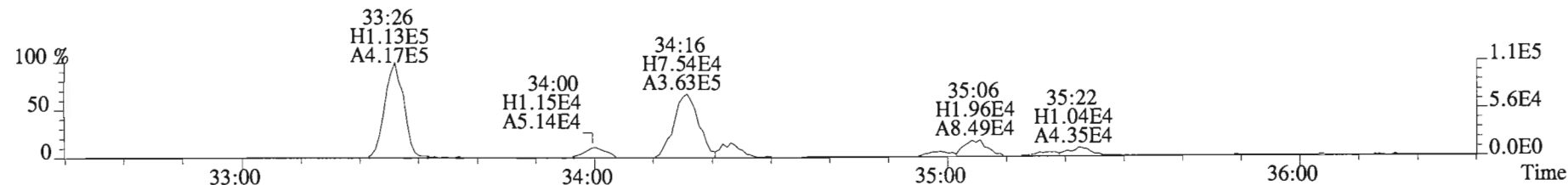
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Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
353.8576 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



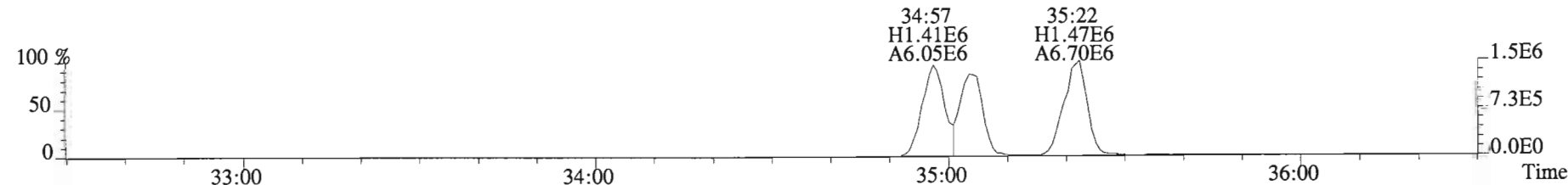
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Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



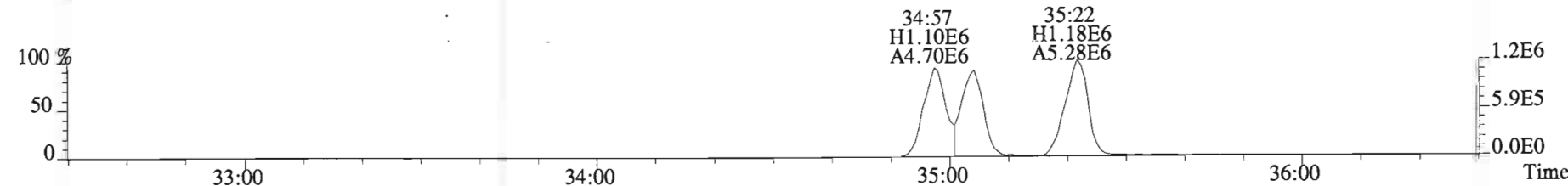
391.8127 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



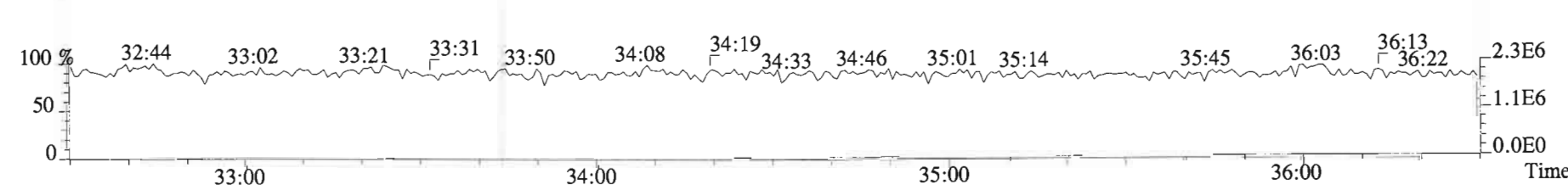
401.8559 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



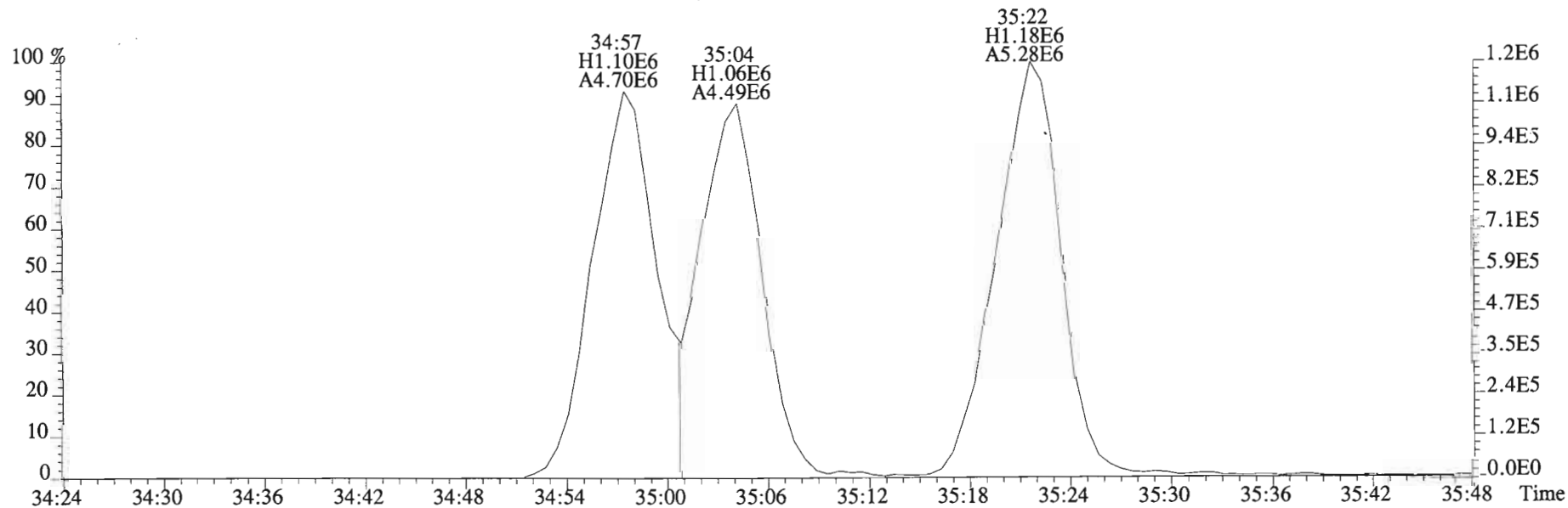
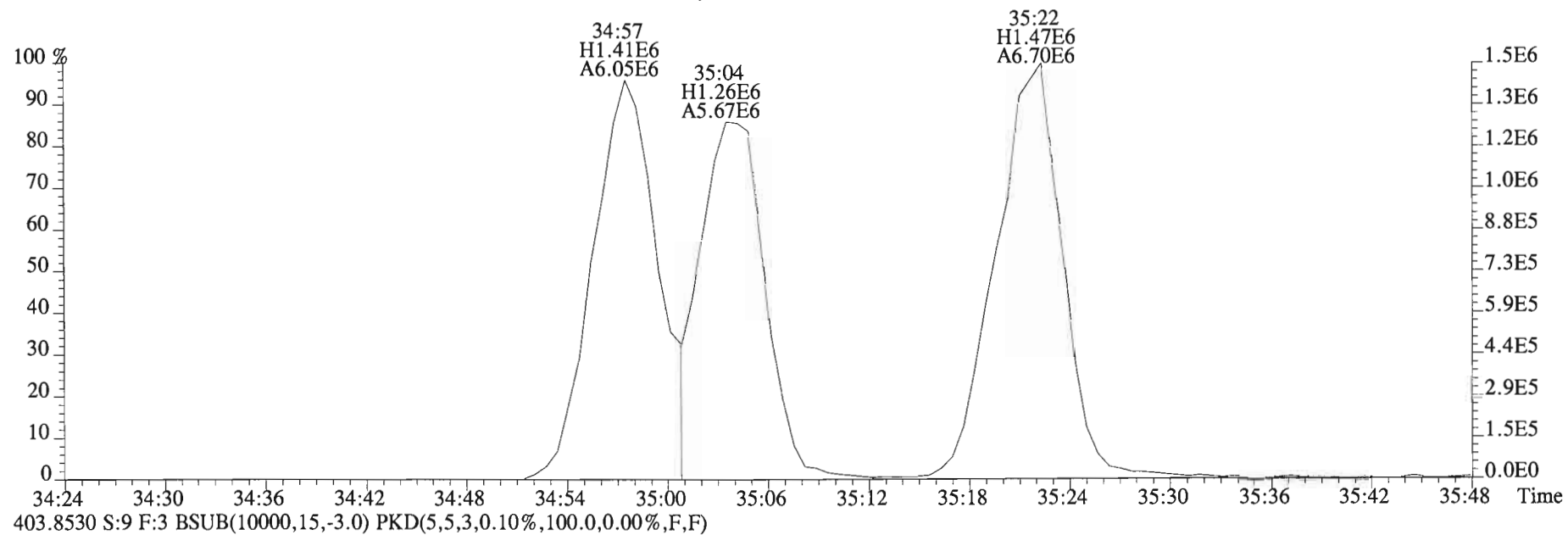
403.8530 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



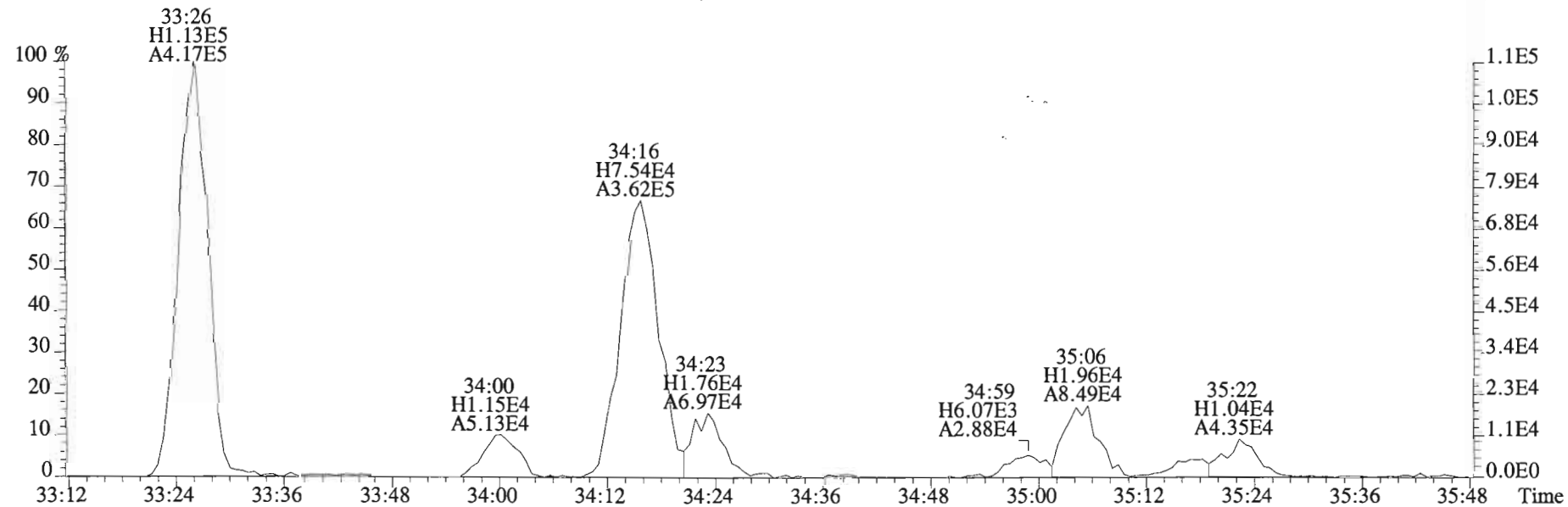
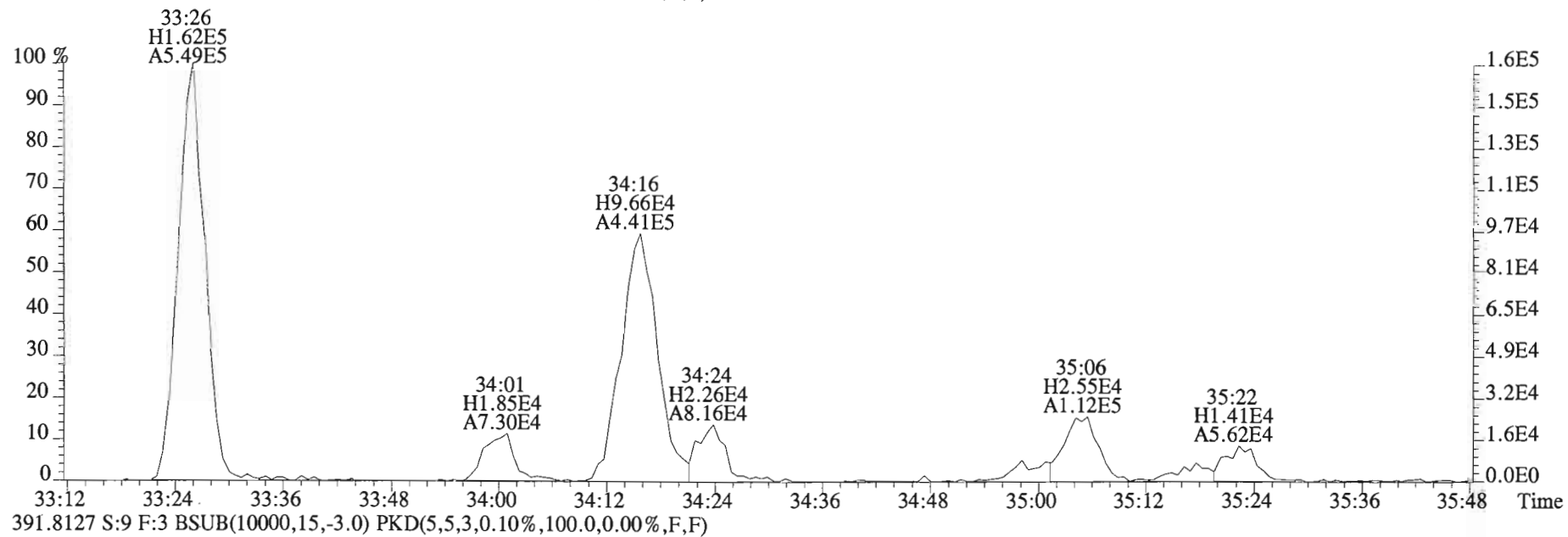
380.9760 S:9 F:3



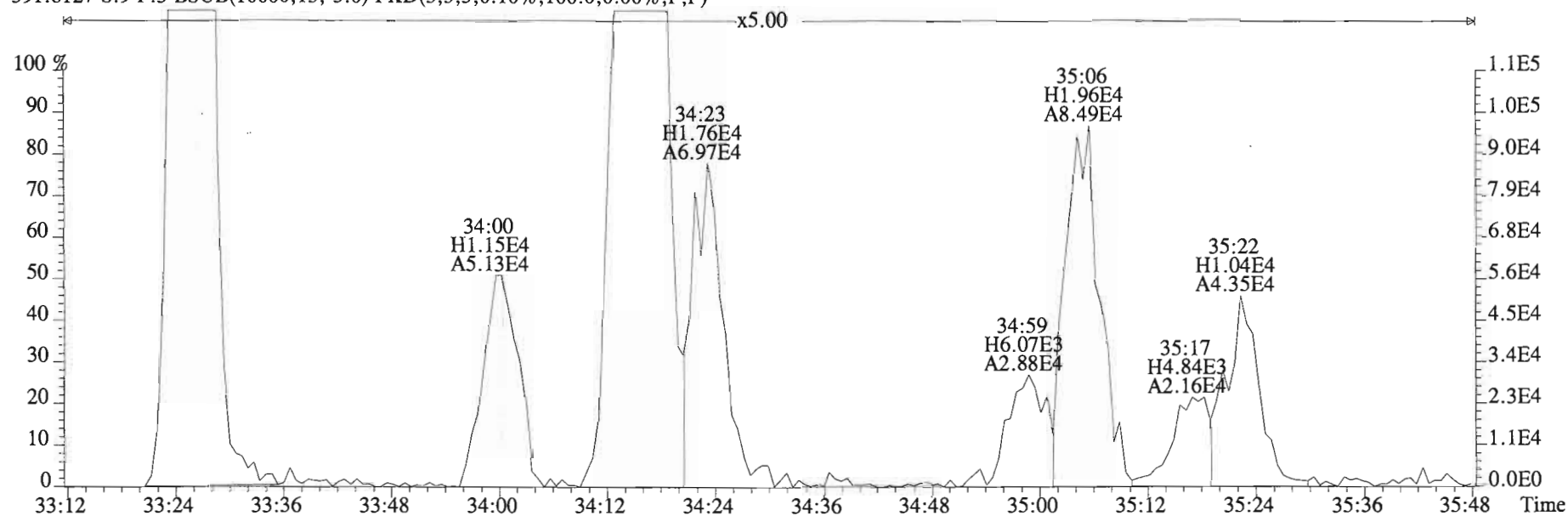
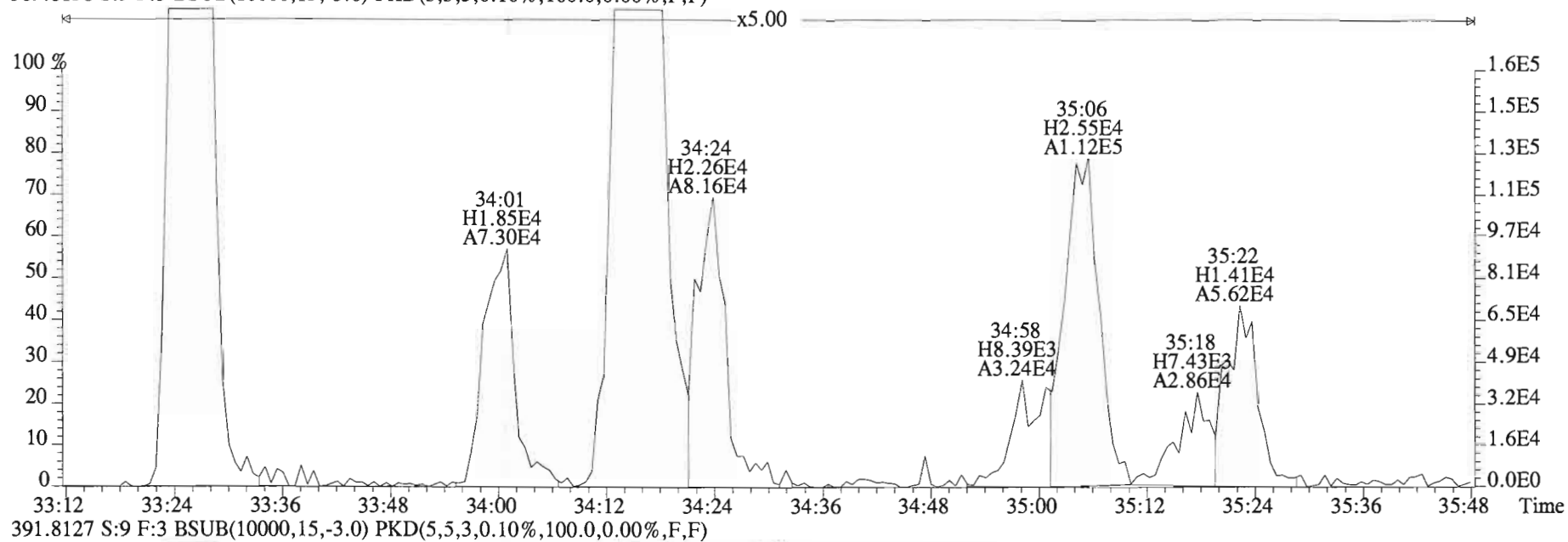
File:150226D1 #1-393 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text: Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
401.8559 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



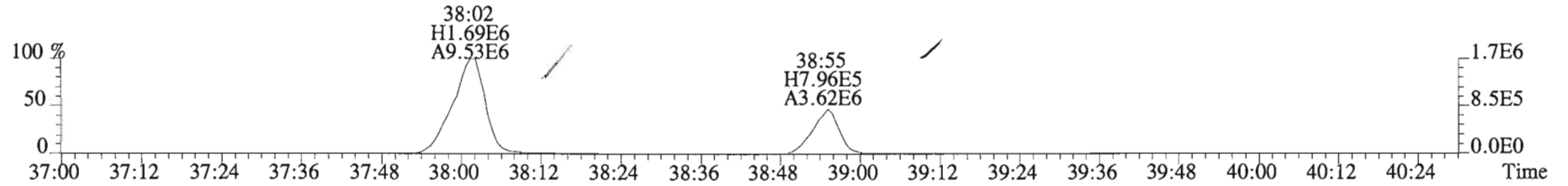
File:150226D1 #1-393 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
 389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



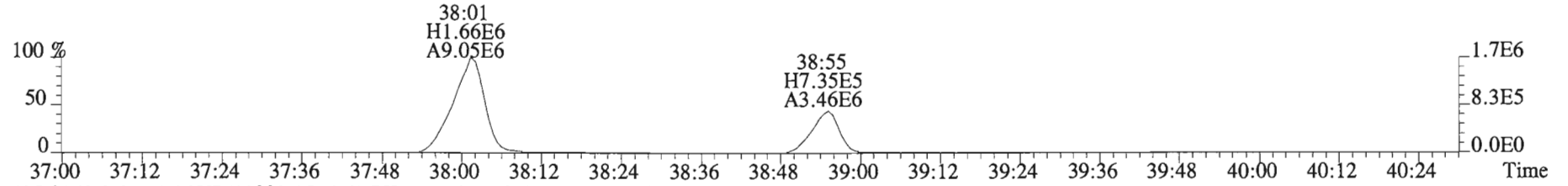
File:150226D1 #1-393 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



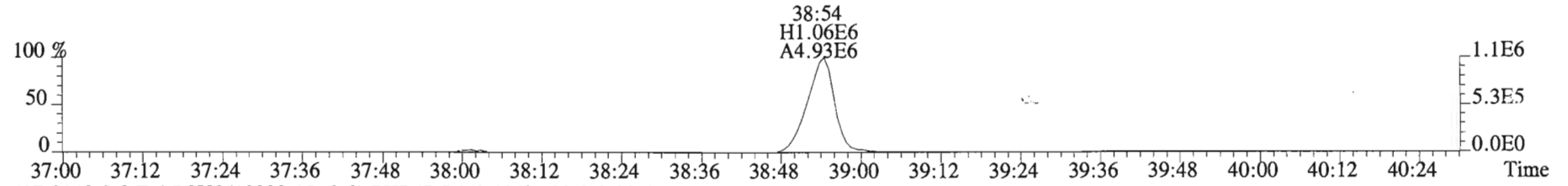
File:150226D1 #1-326 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



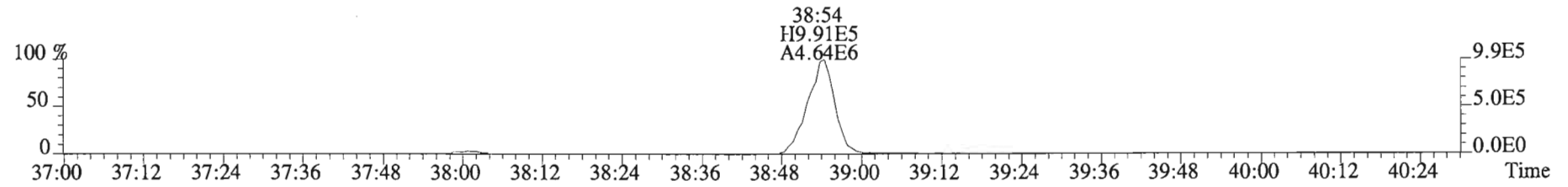
425.7737 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



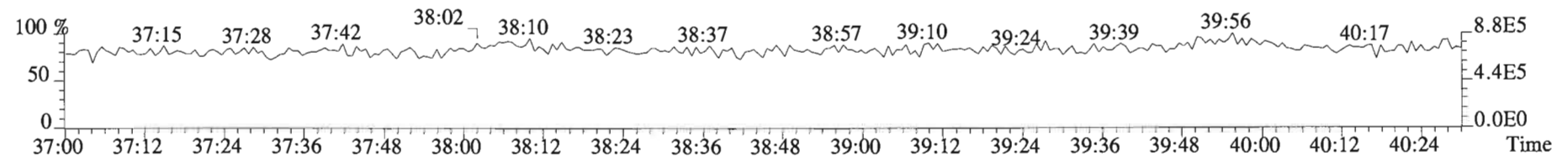
435.8169 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



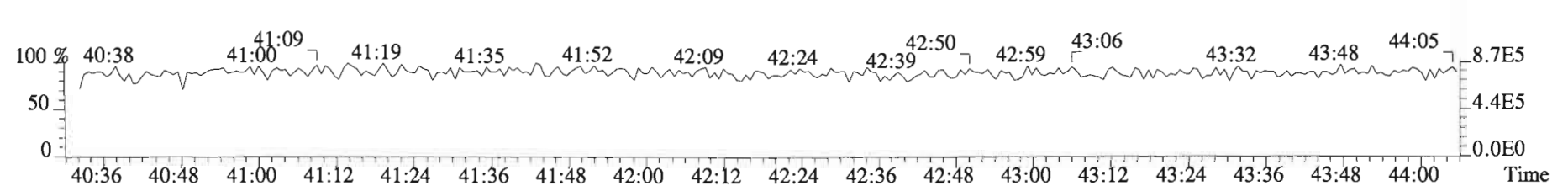
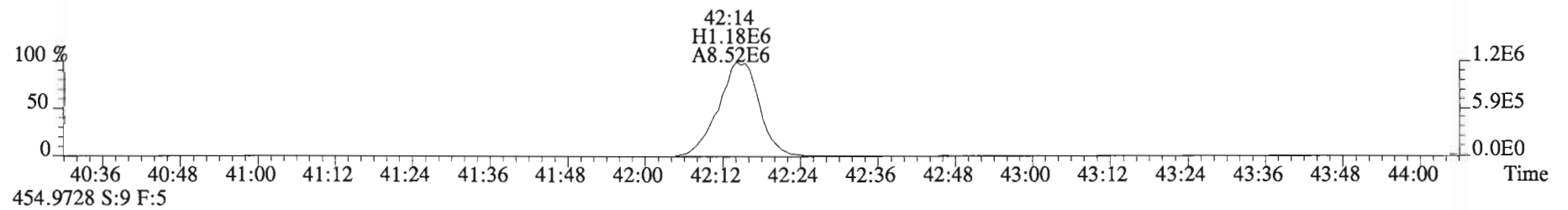
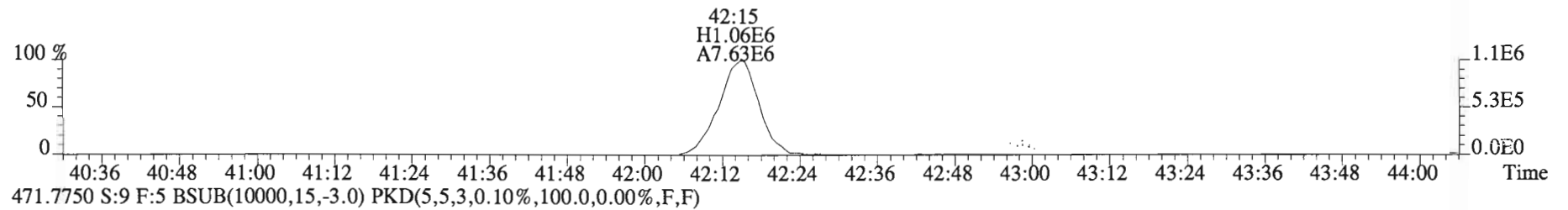
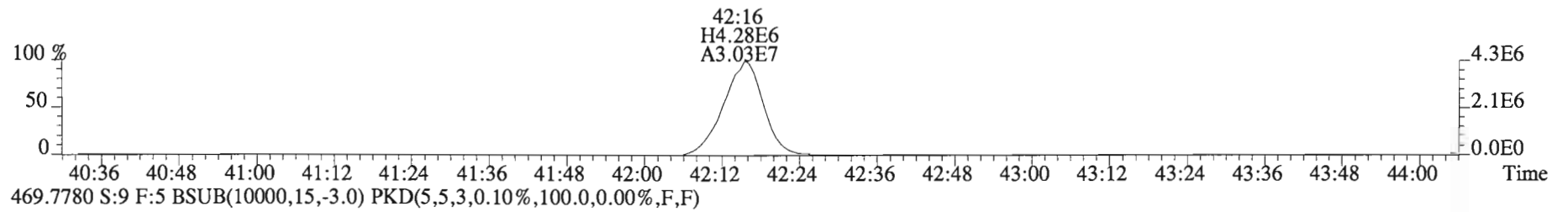
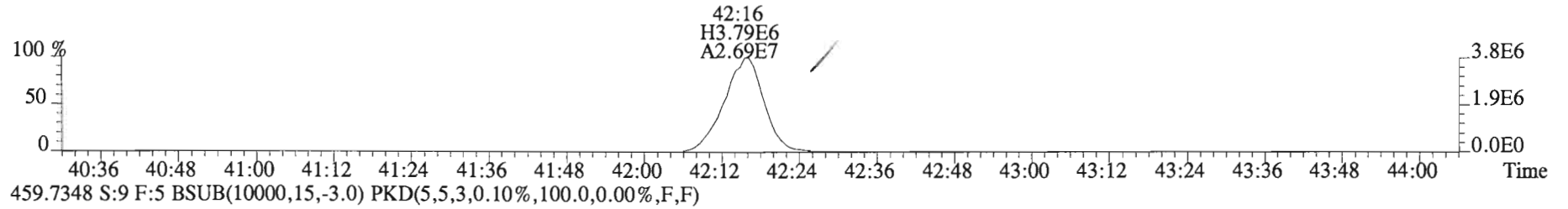
437.8140 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



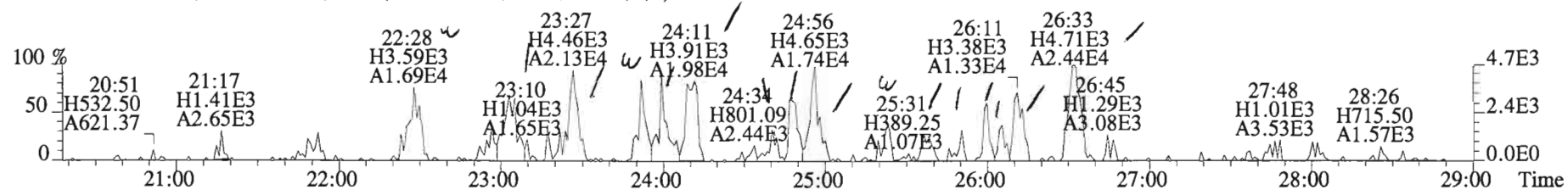
430.9728 S:9 F:4



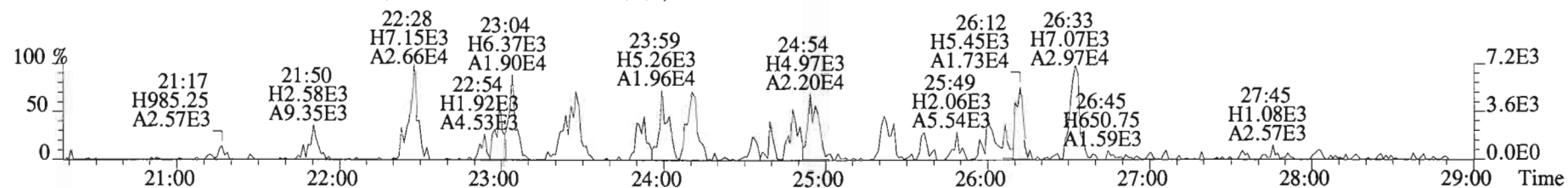
File:150226D1 #1-388 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



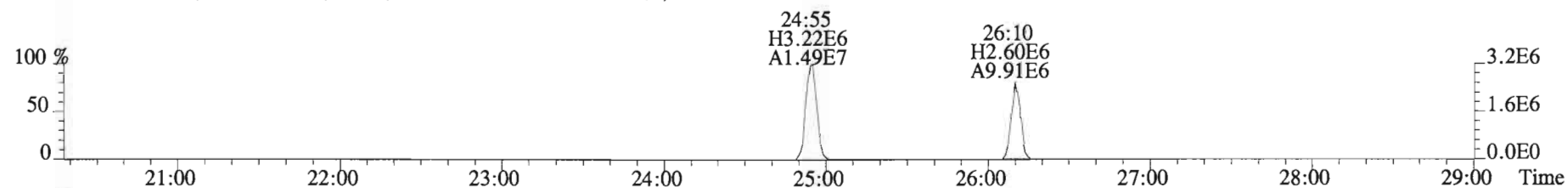
File:150226D1 #1-552 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
303.9016 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



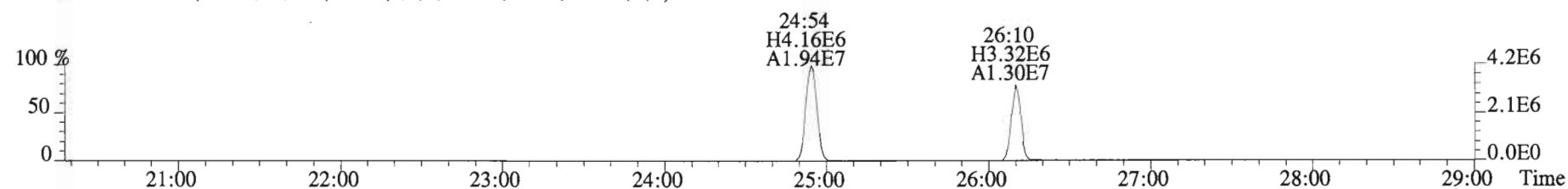
305.8987 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



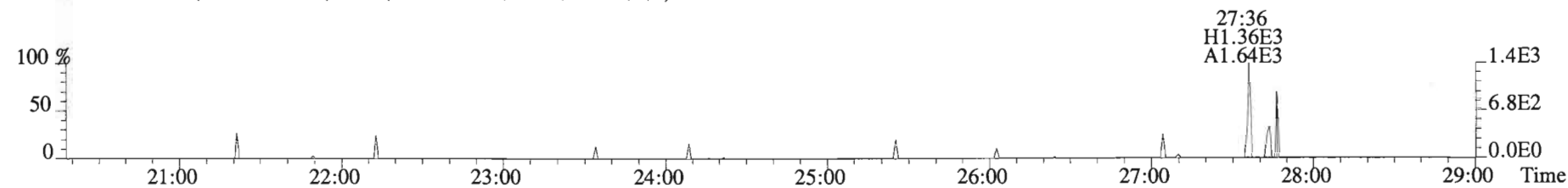
315.9419 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



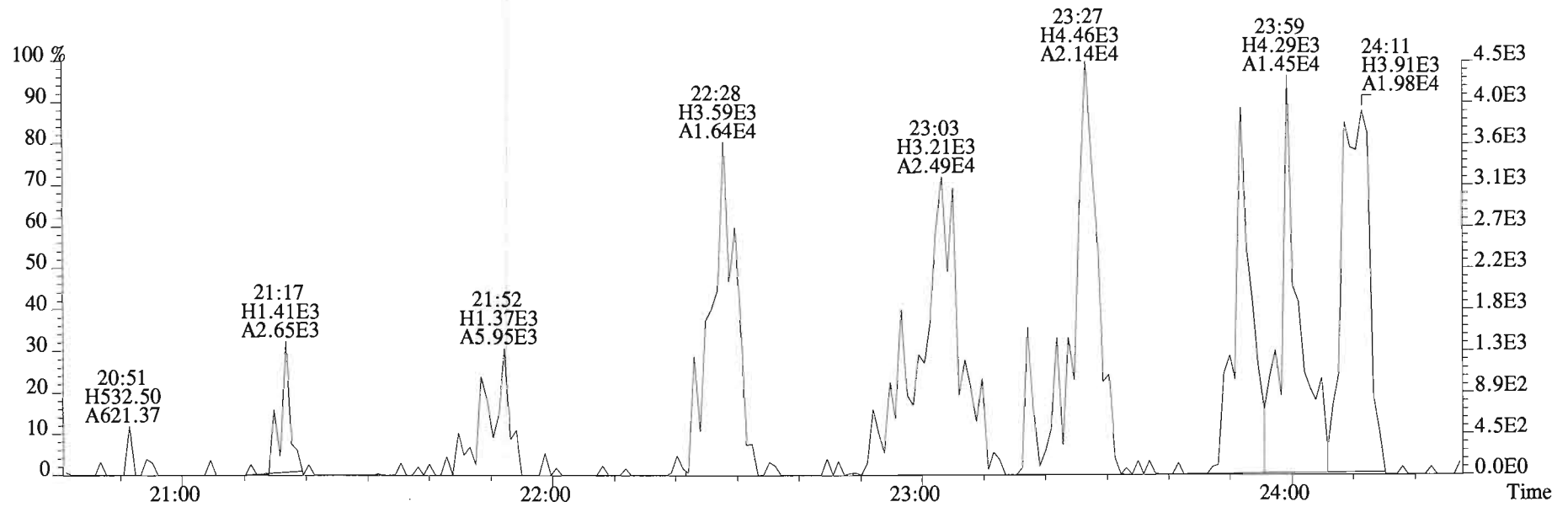
317.9389 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



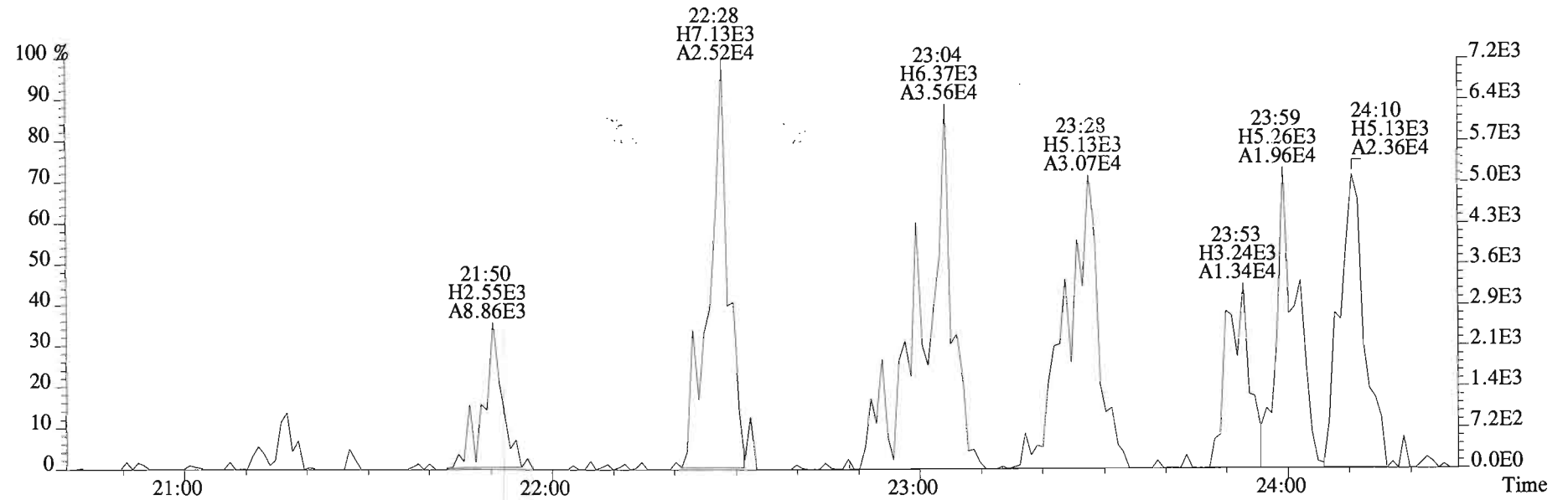
375.8364 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



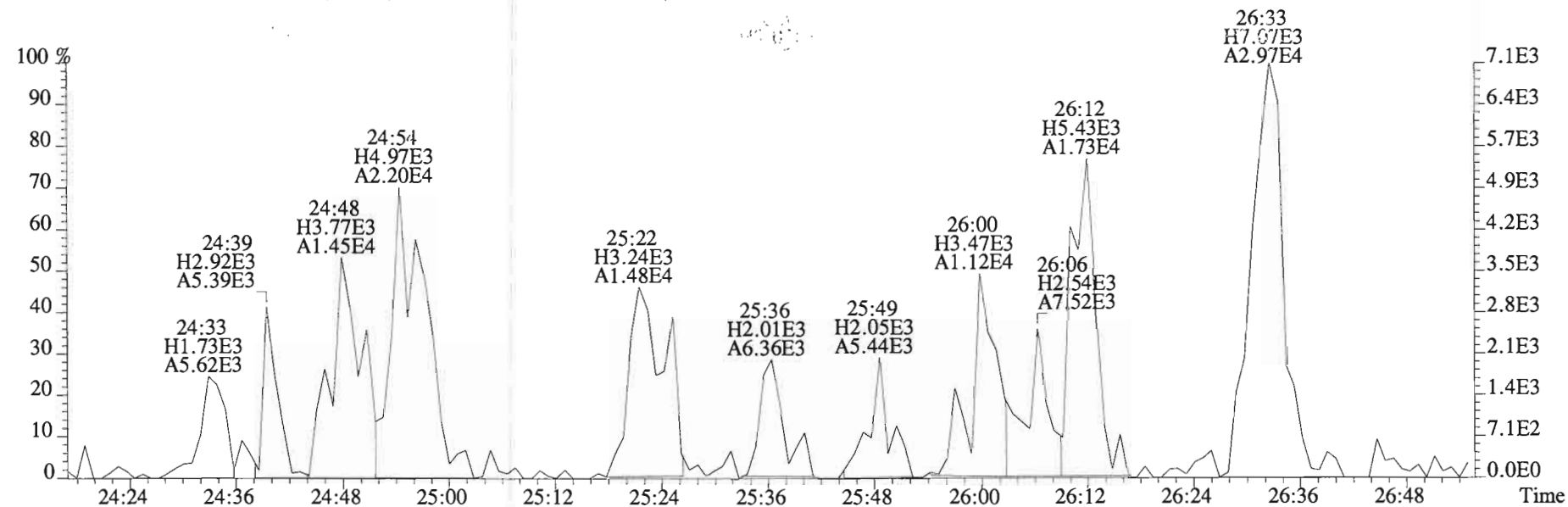
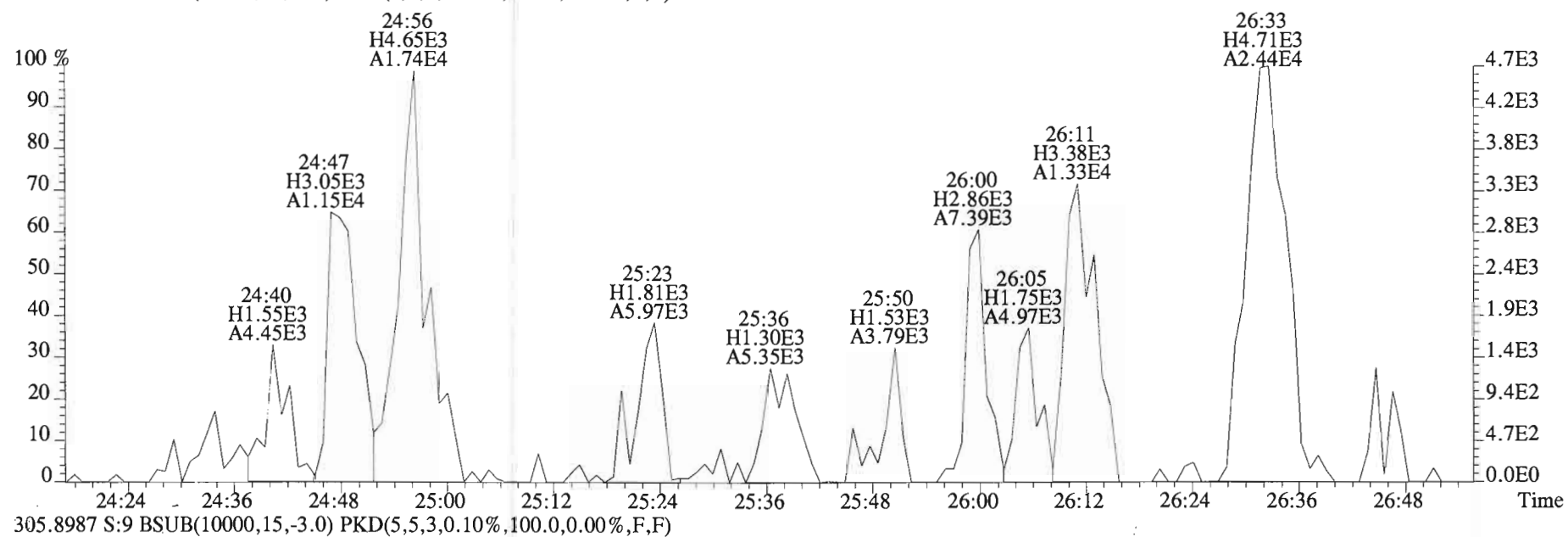
File:150226D1 #1-552 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
303.9016 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



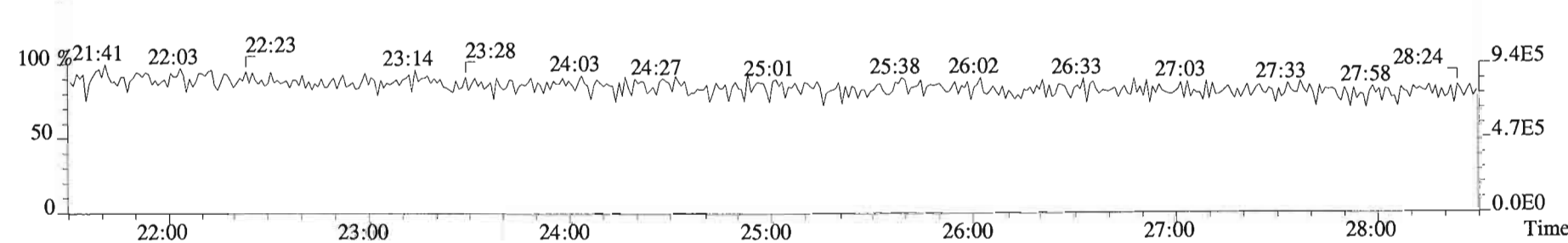
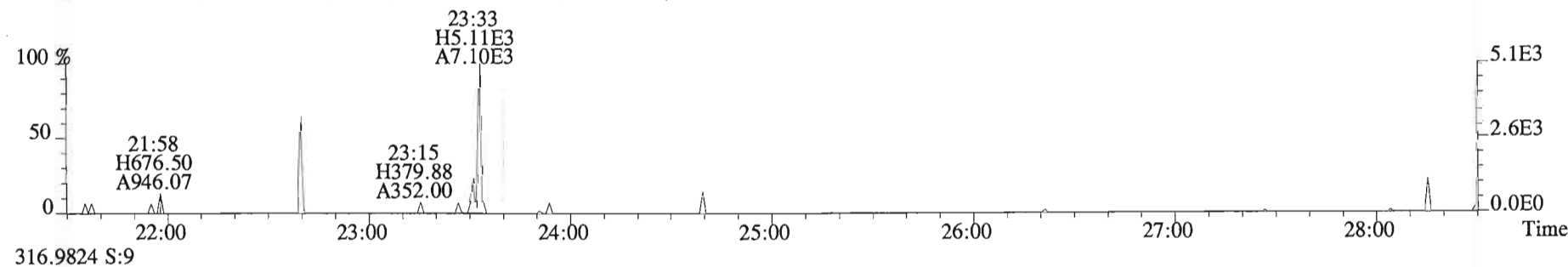
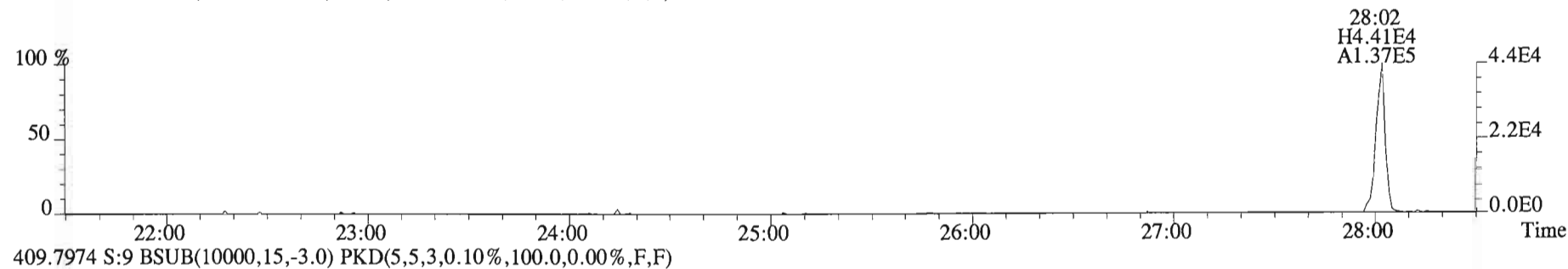
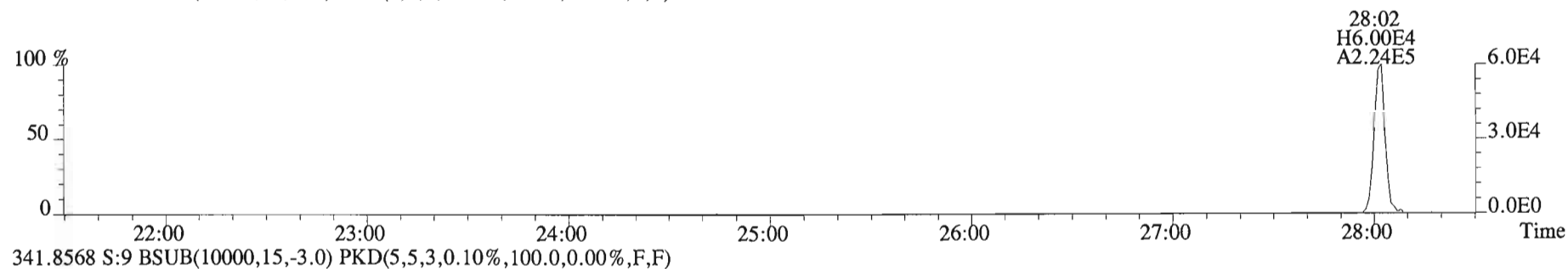
305.8987 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



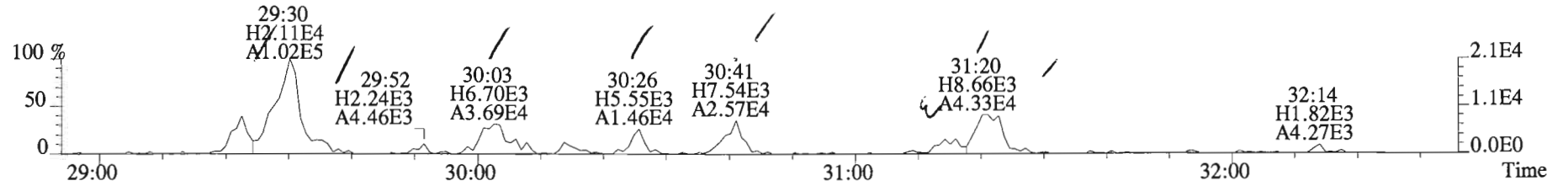
File:150226D1 #1-552 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
303.9016 S:9 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



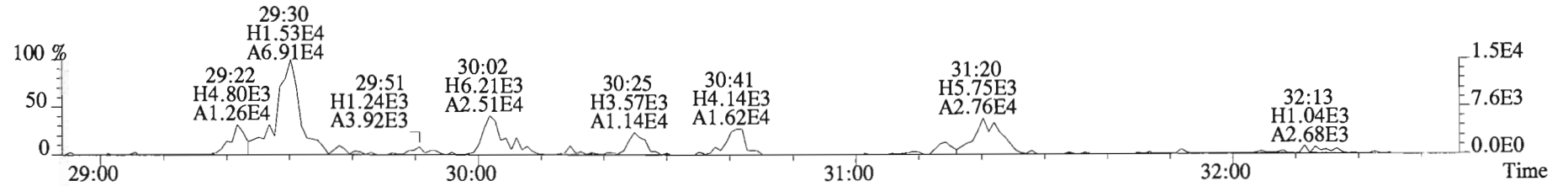
File:150226D1 #1-552 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
339.8597 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



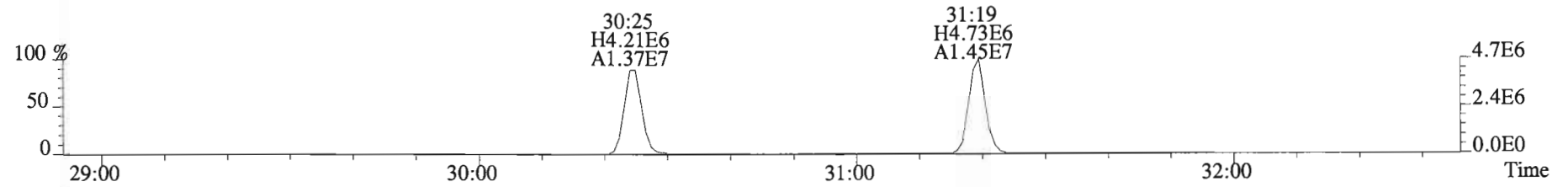
File:150226D1 #1-250 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



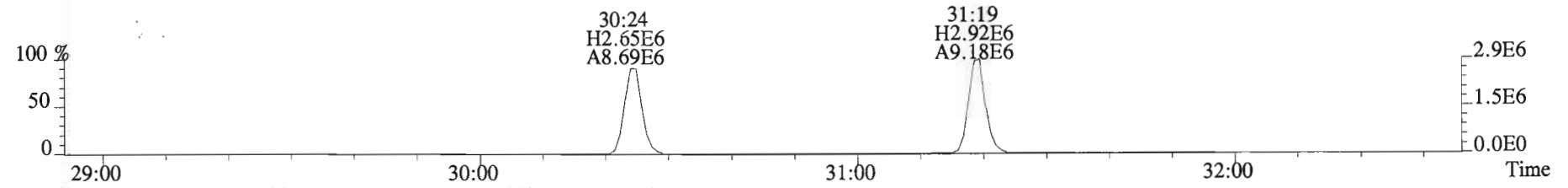
341.8568 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



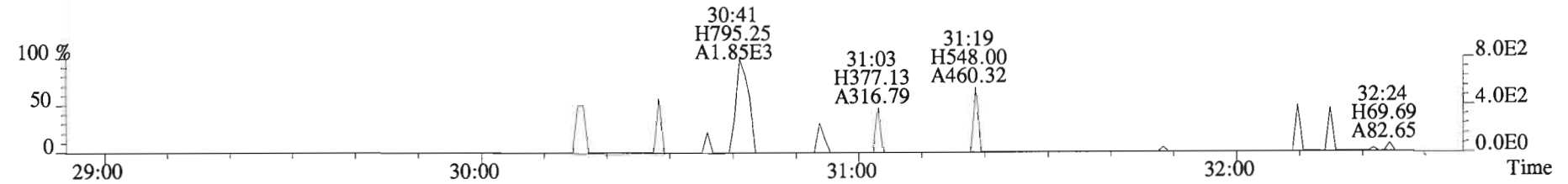
351.9000 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



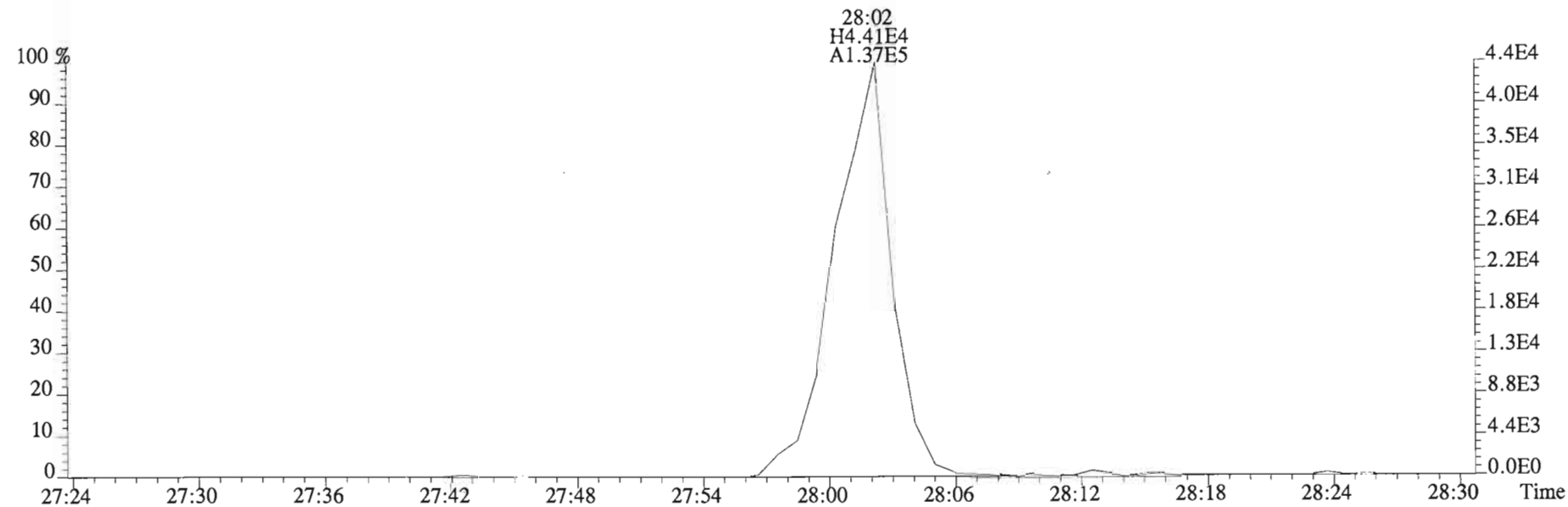
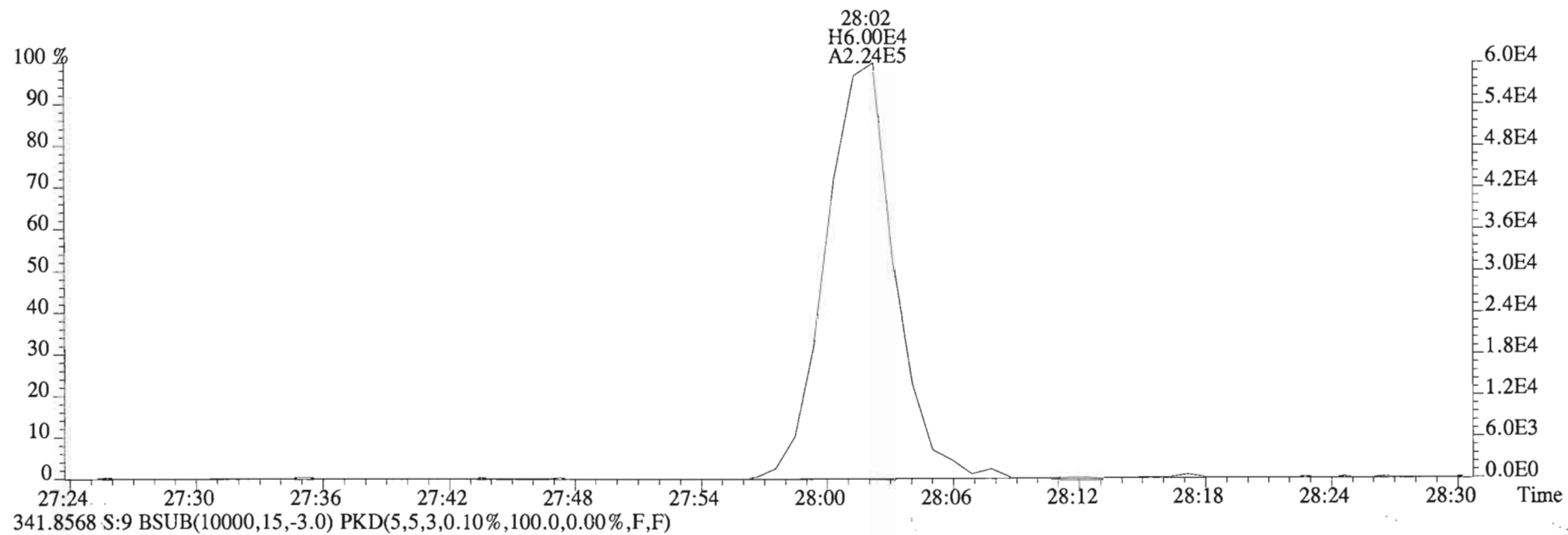
353.8970 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



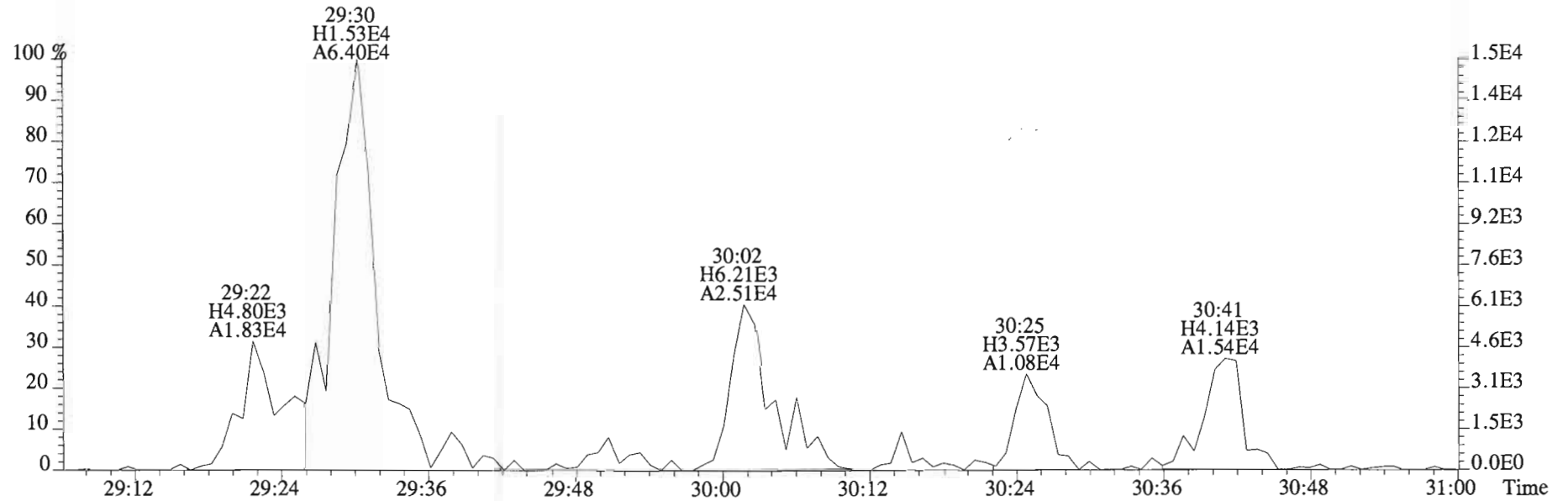
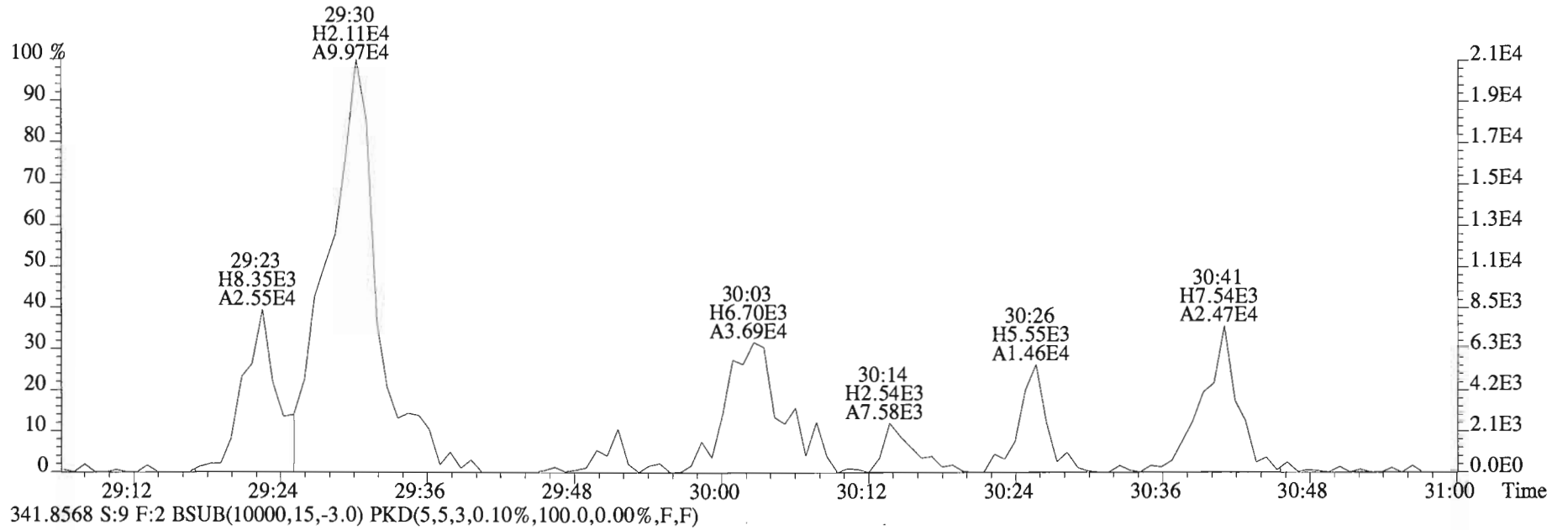
409.7974 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



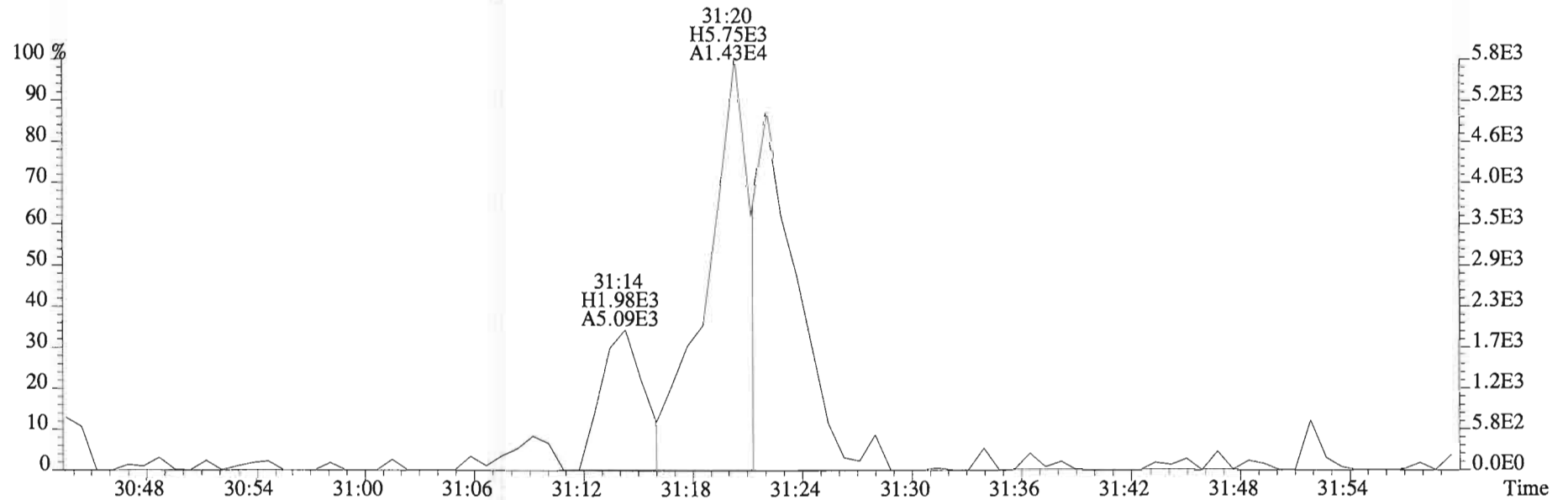
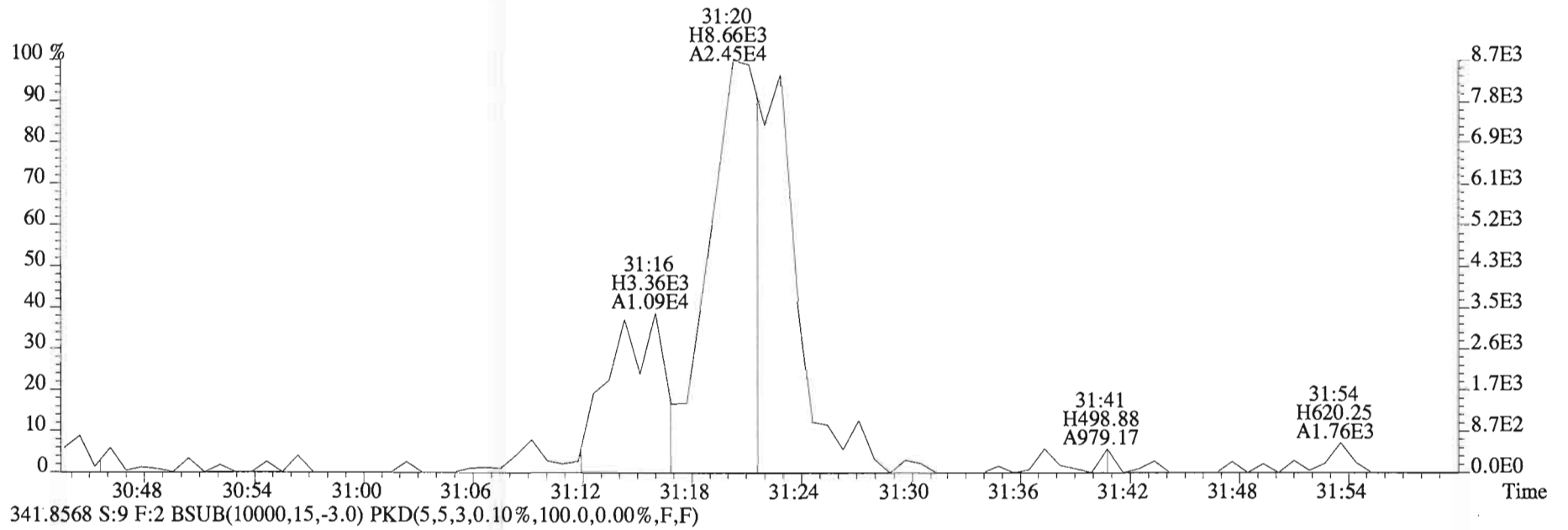
File:150226D1 #1-552 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
339.8597 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



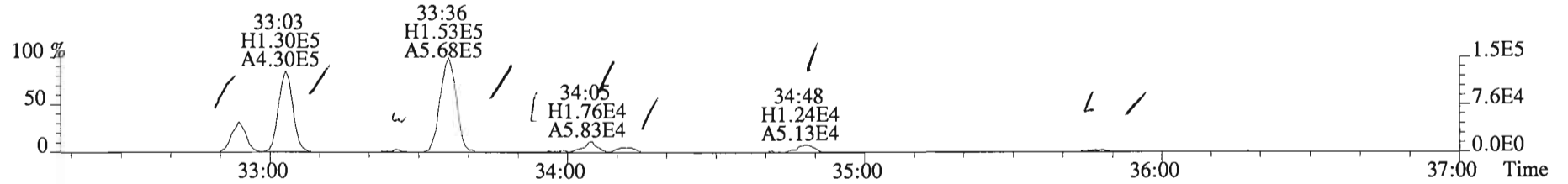
File:150226D1 #1-250 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text: Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



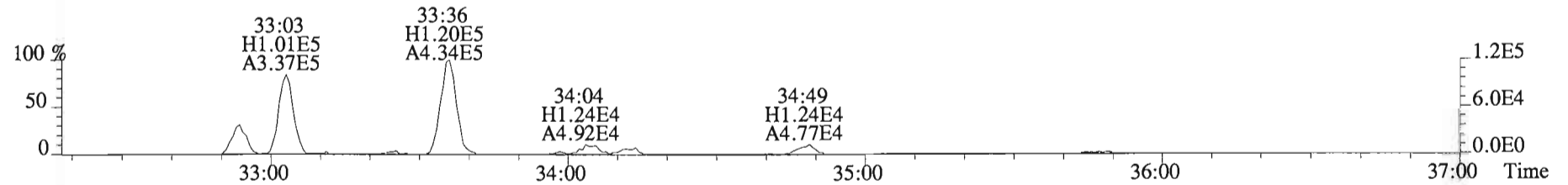
File:150226D1 #1-250 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



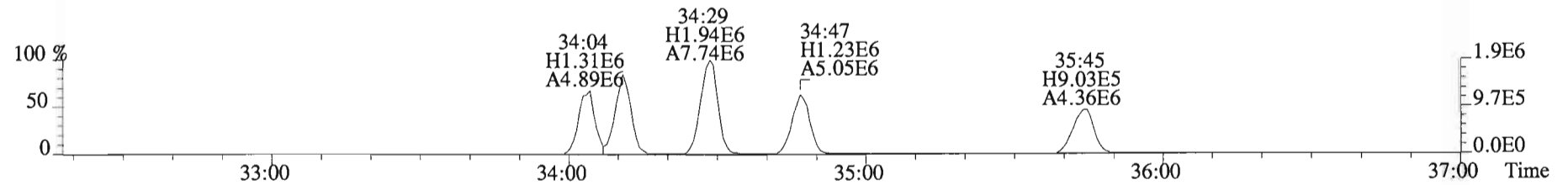
File:150226D1 #1-393 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



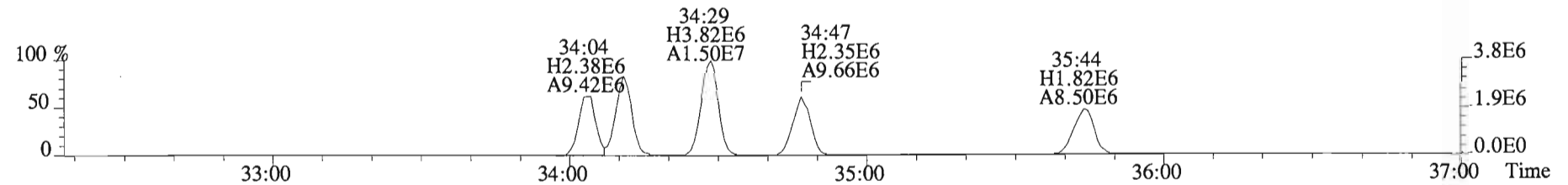
375.8178 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



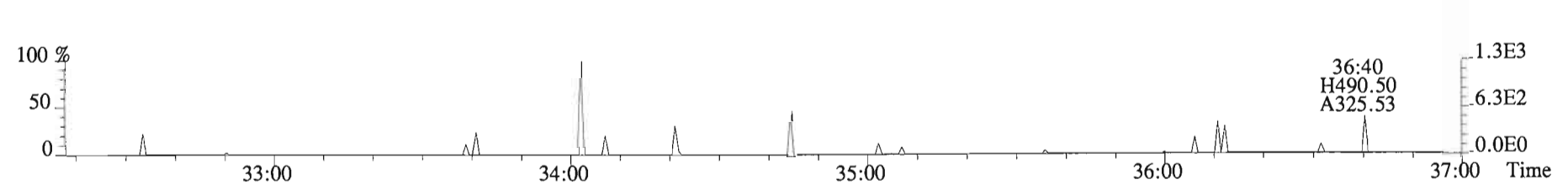
383.8639 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



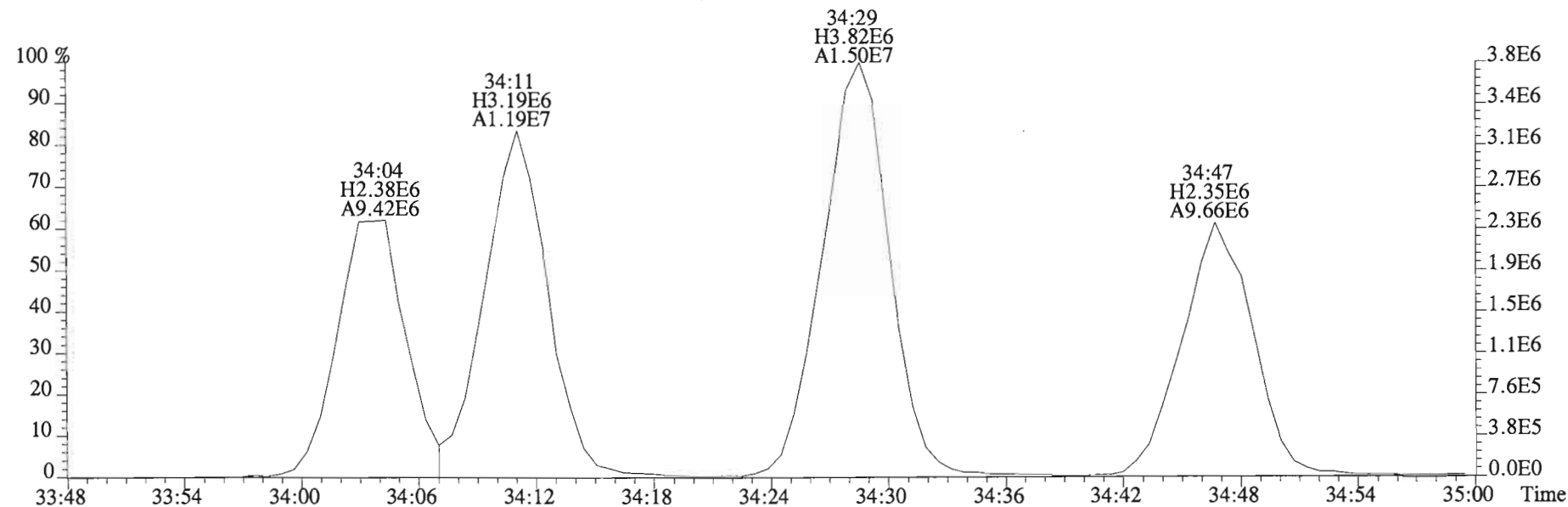
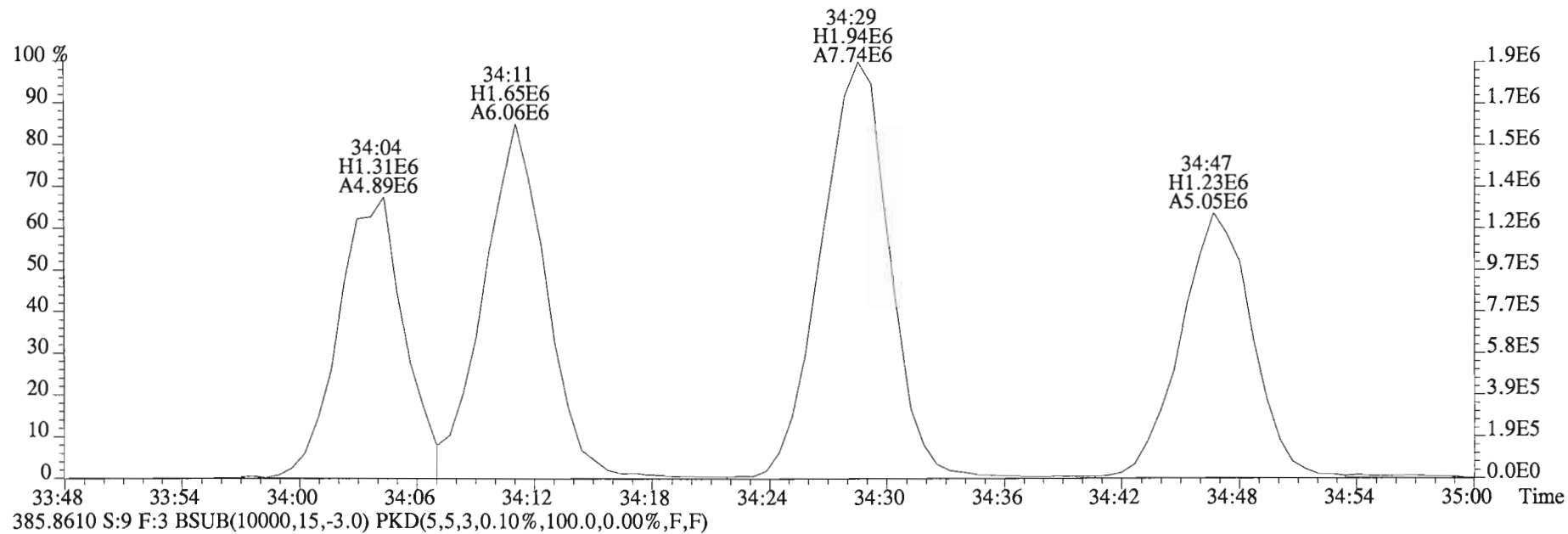
385.8610 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



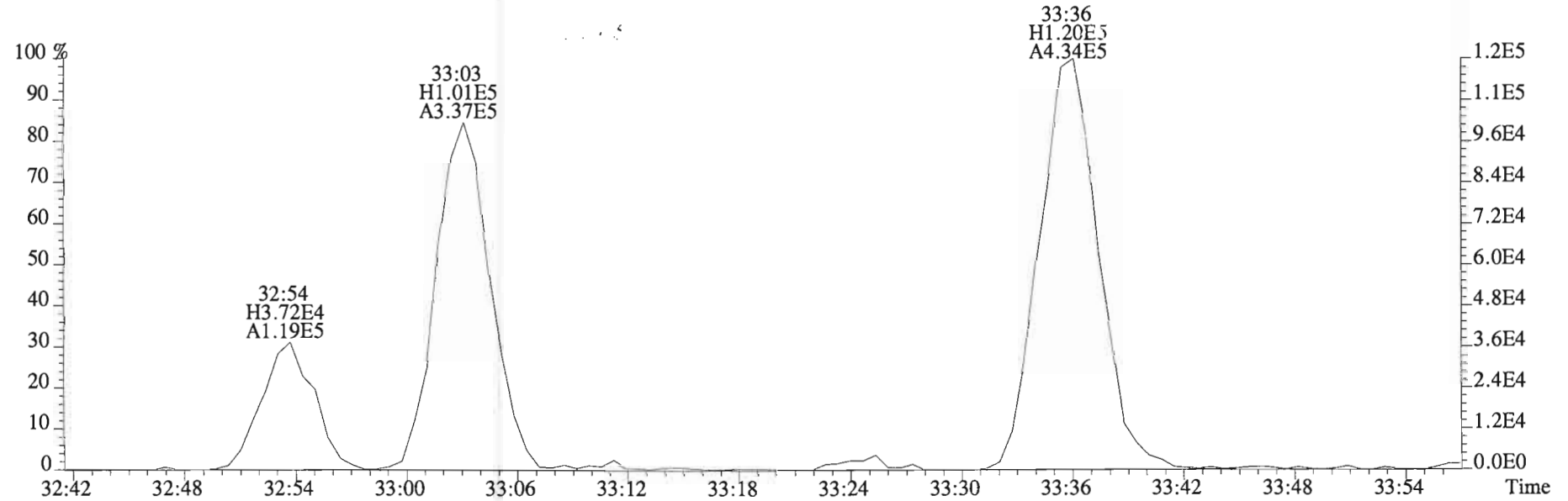
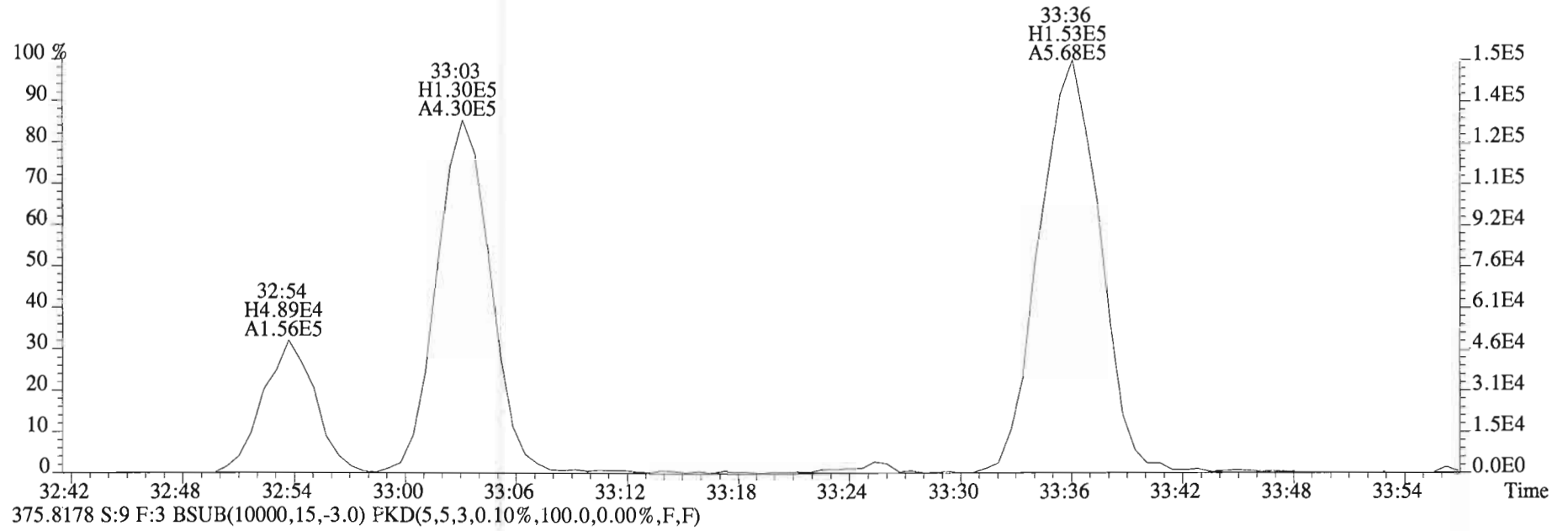
445.7555 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



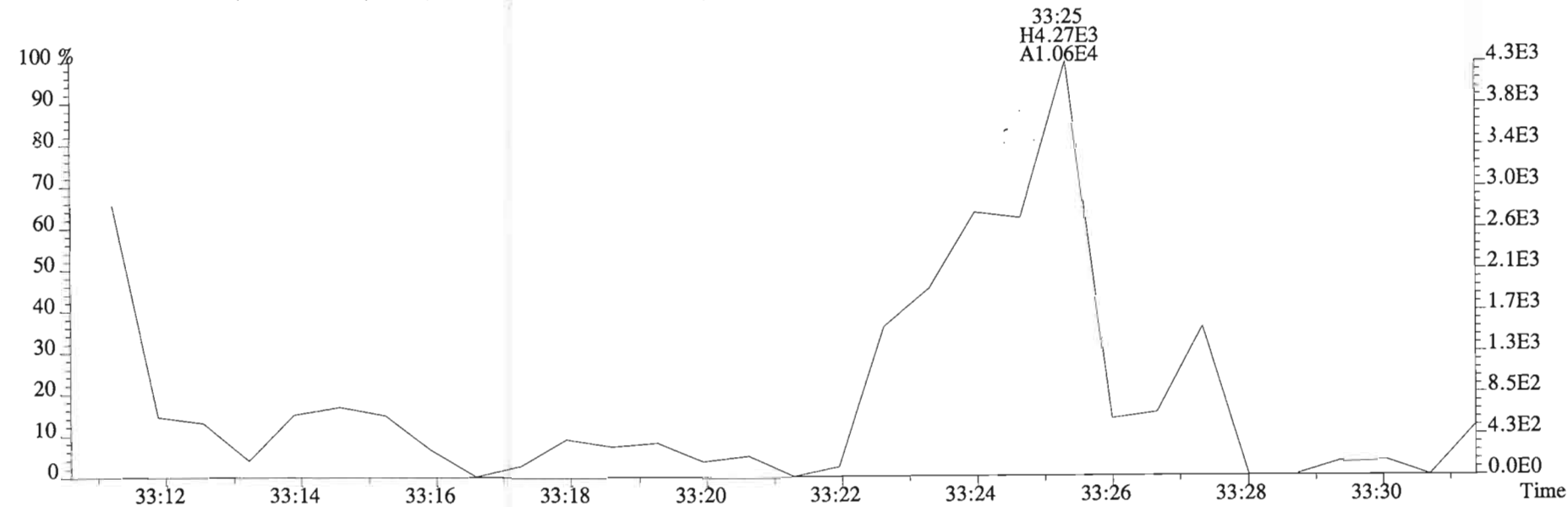
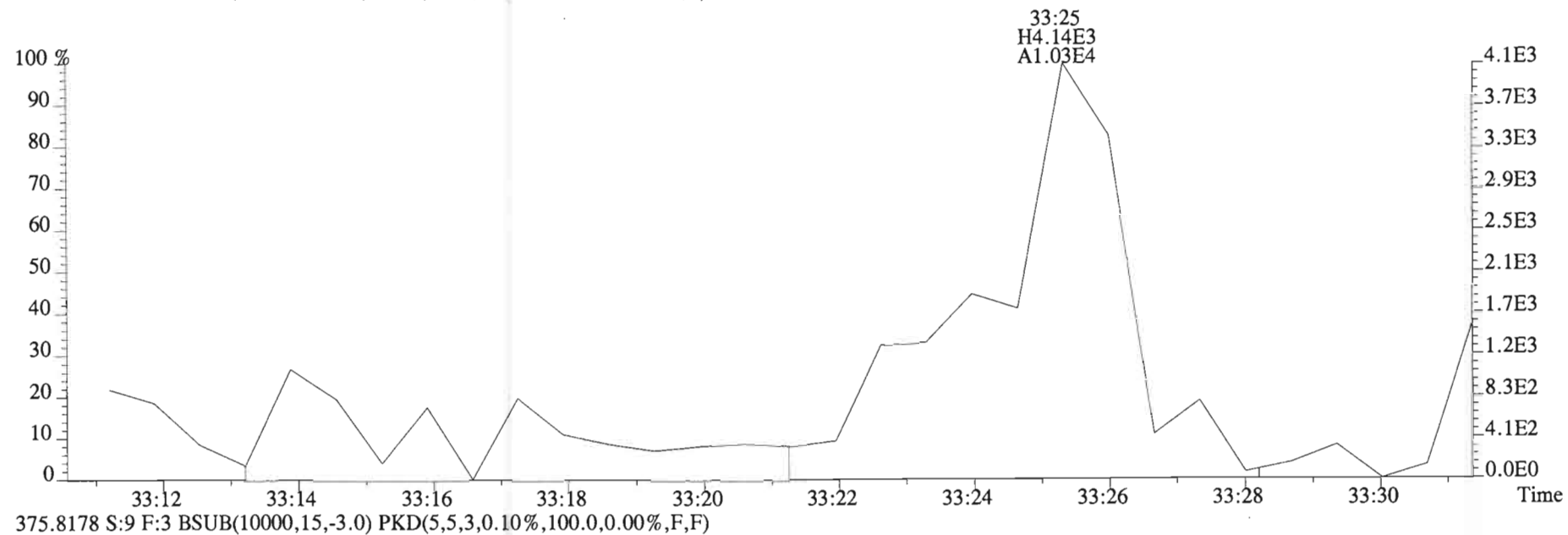
File:150226D1 #1-393 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
383.8639 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



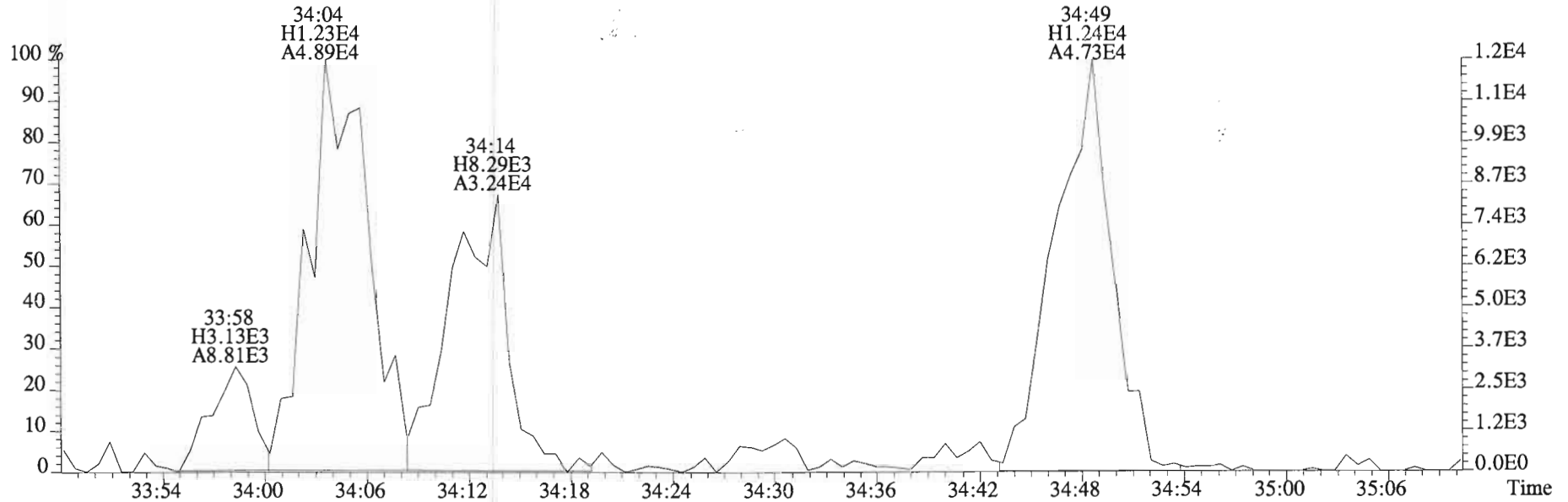
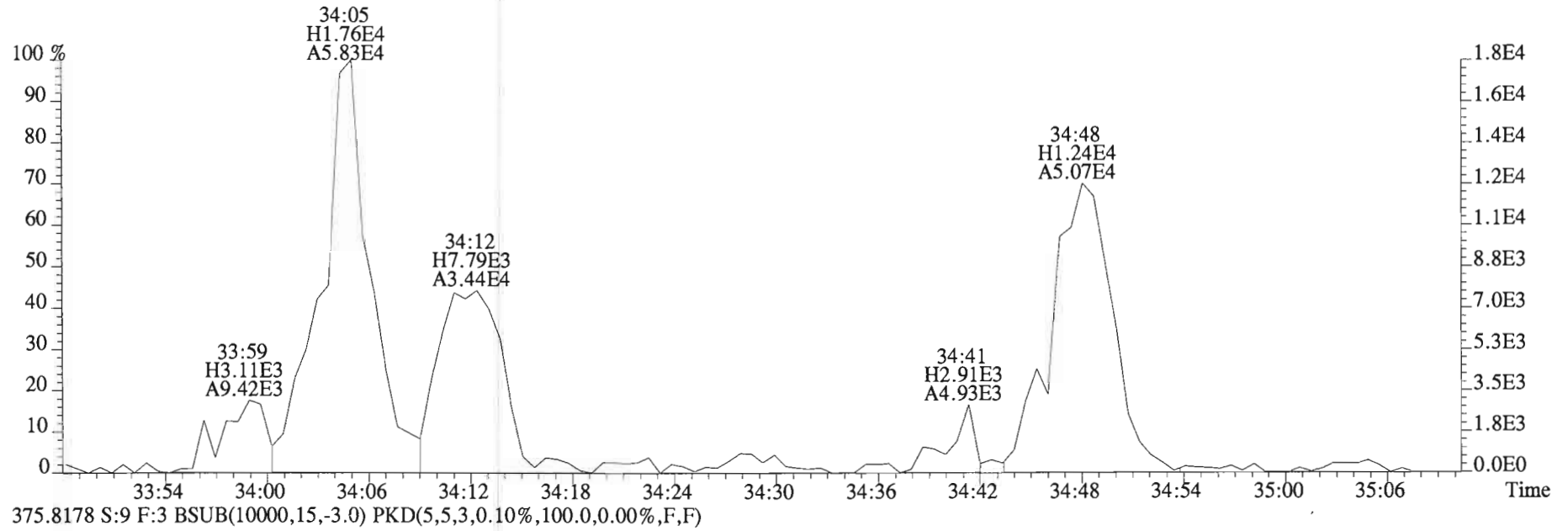
File:150226D1 #1-393 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



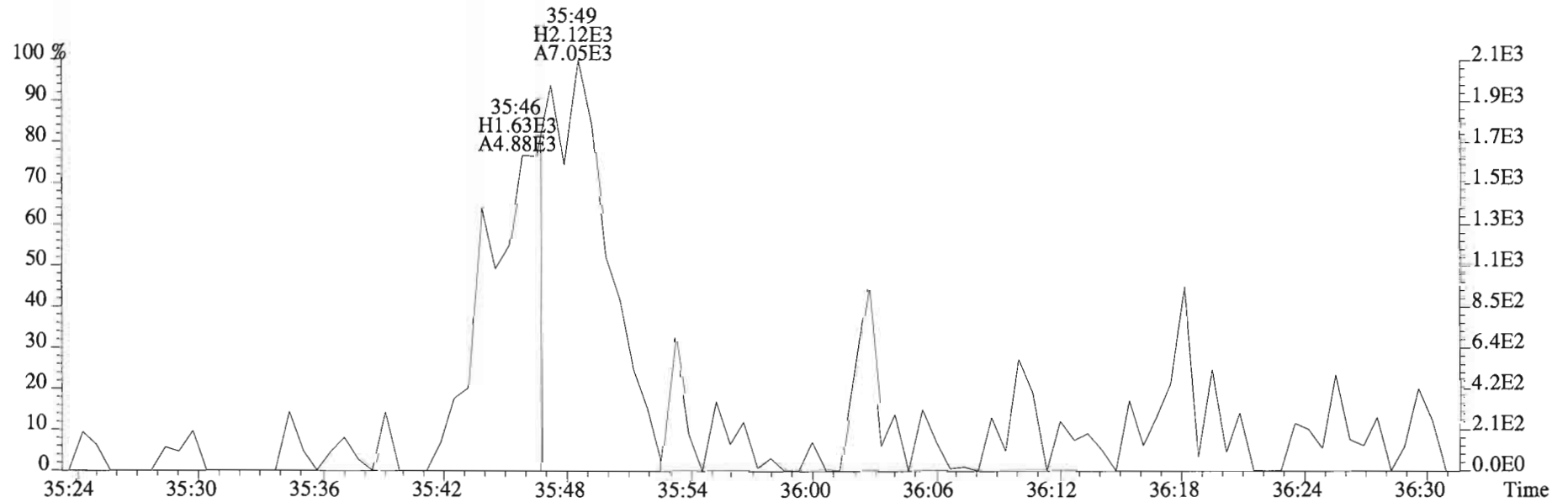
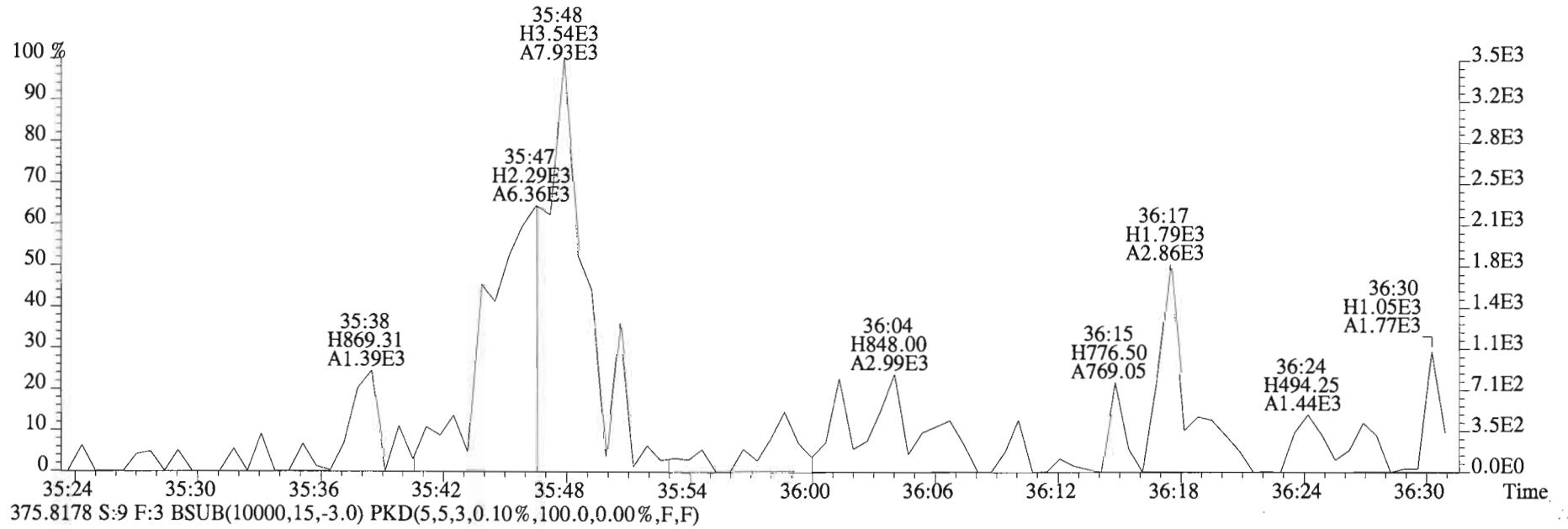
File:150226D1 #1-393 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



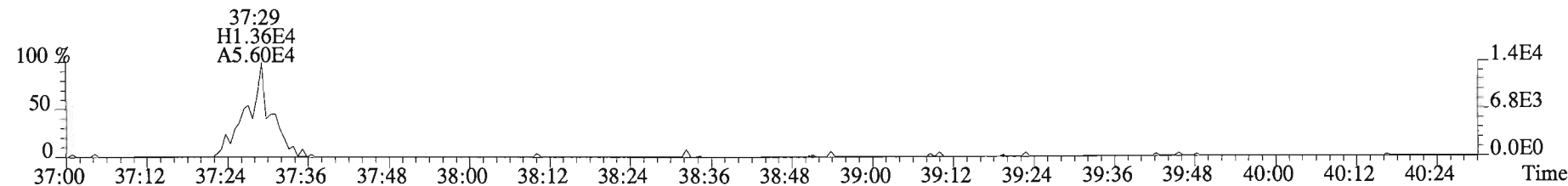
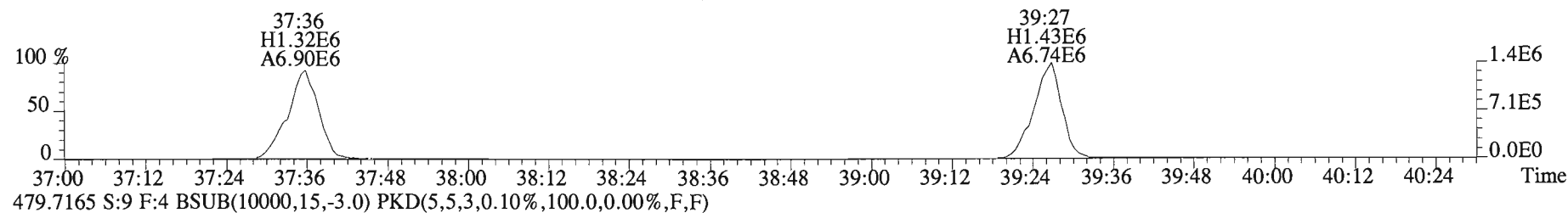
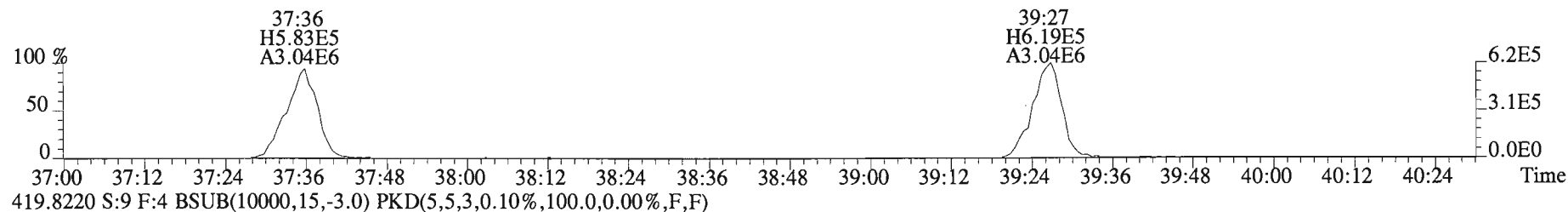
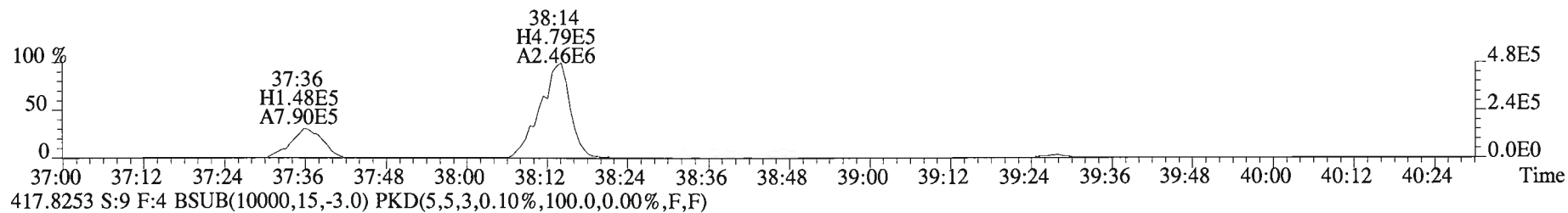
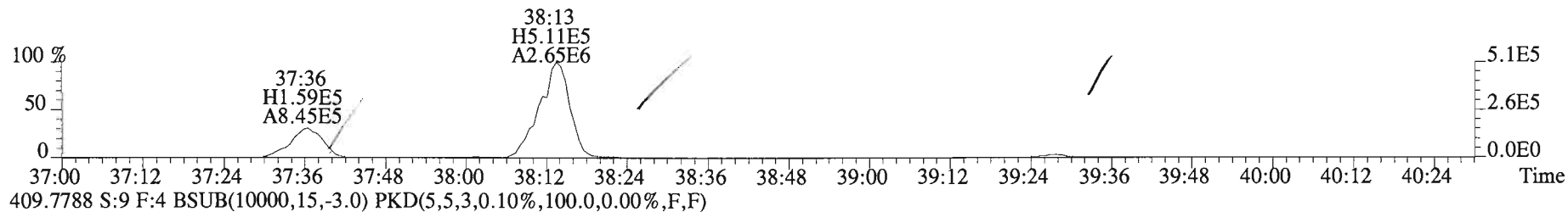
File:150226D1 #1-393 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



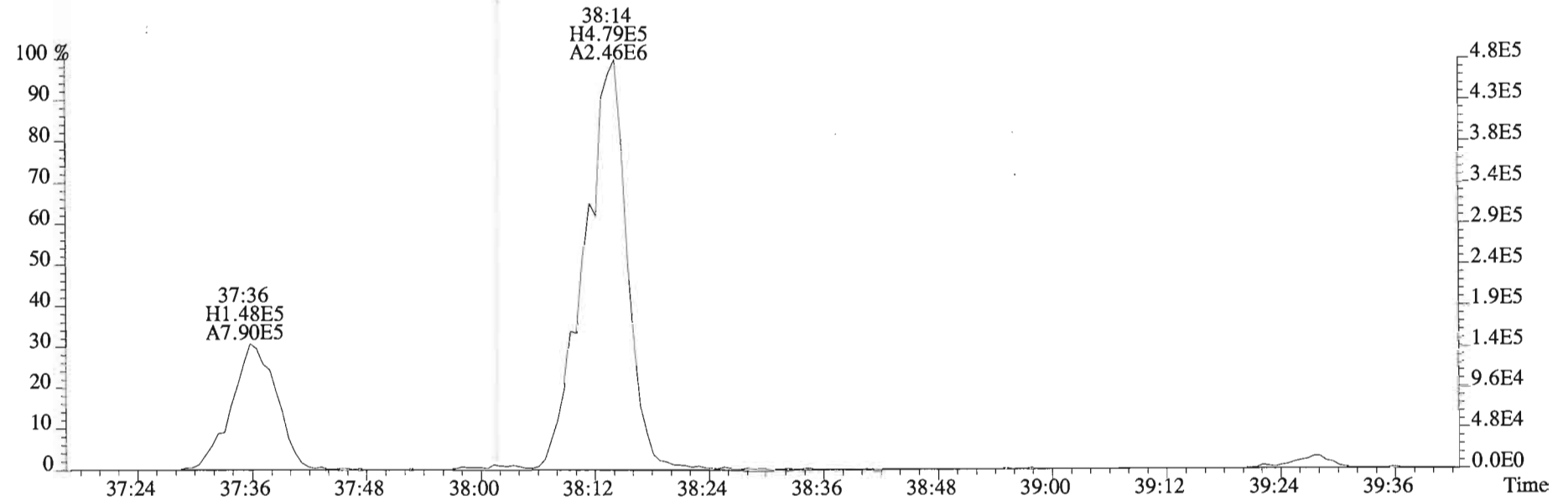
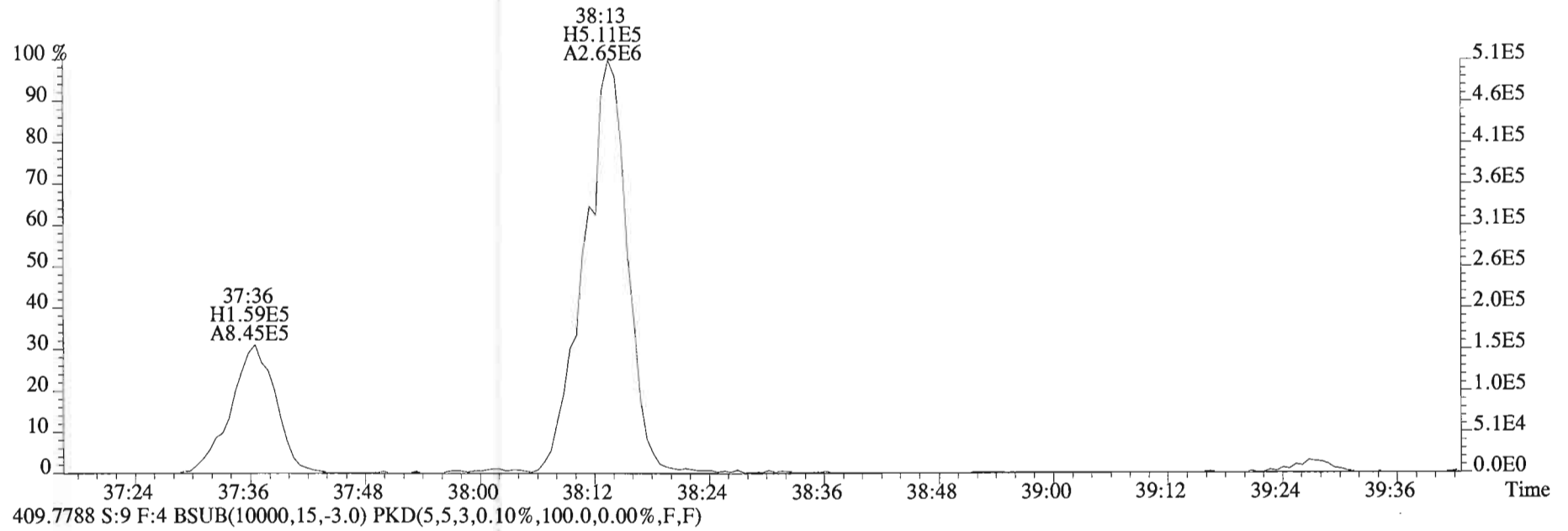
File:150226D1 #1-393 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text: Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



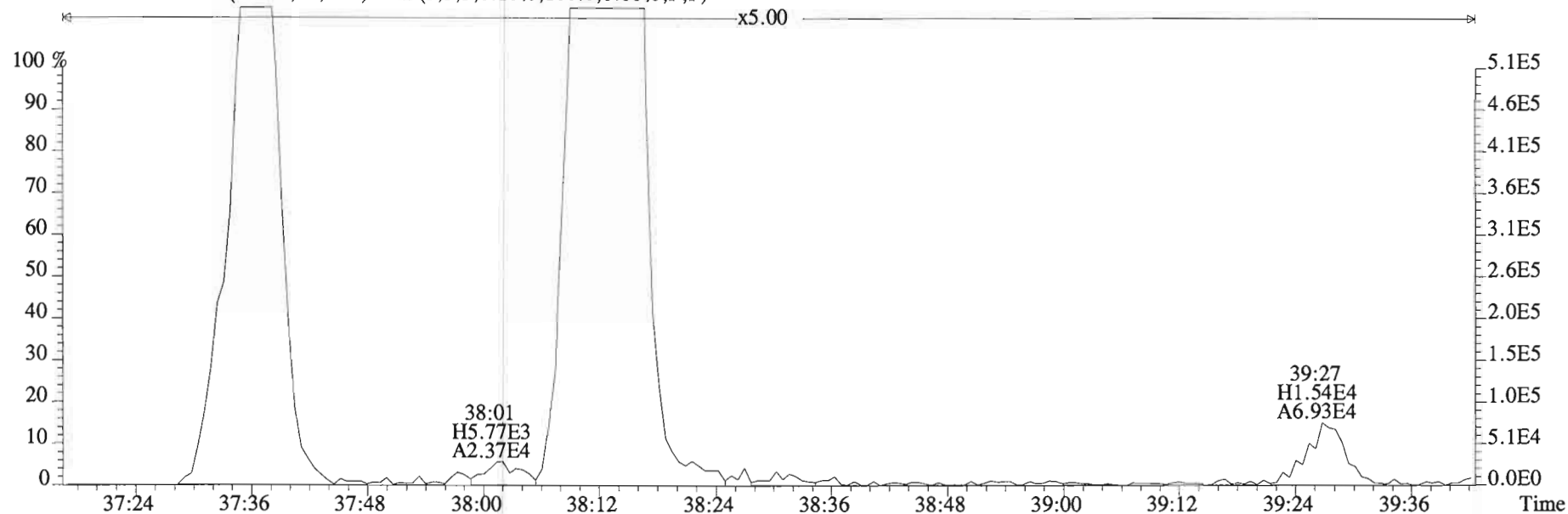
File:150226D1 #1-326 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
407.7818 S:9 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



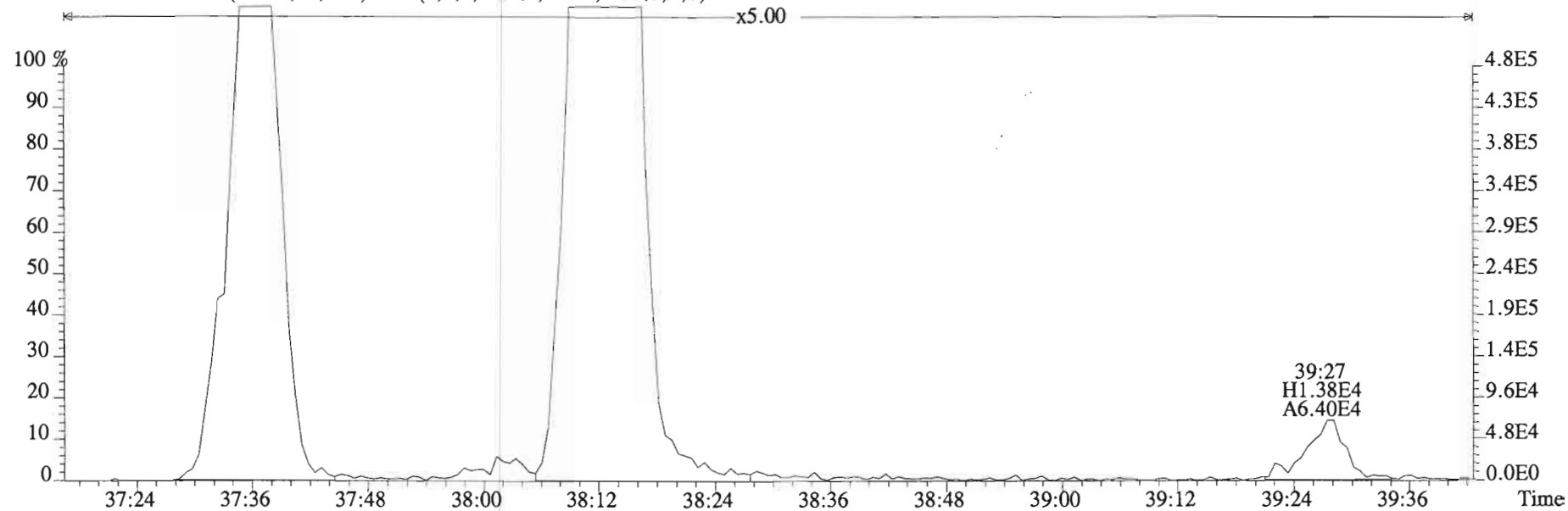
File:150226D1 #1-326 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



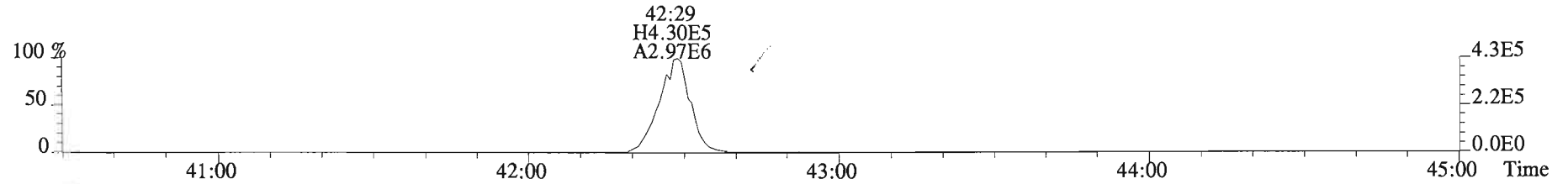
File:150226D1 #1-326 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



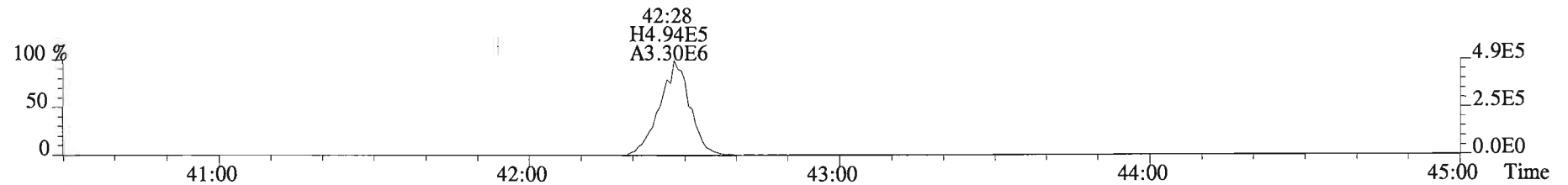
409.7788 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



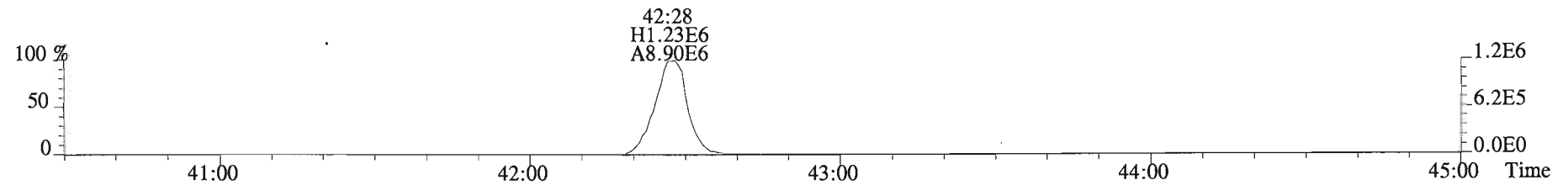
File:150226D1 #1-388 Acq:26-FEB-2015 16:10:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 File Text:Vista Analytical Laboratory VG-7 Text:1500166-02 ST-FD-02-20150210-W 1 Exp:OCDD_DB5
441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



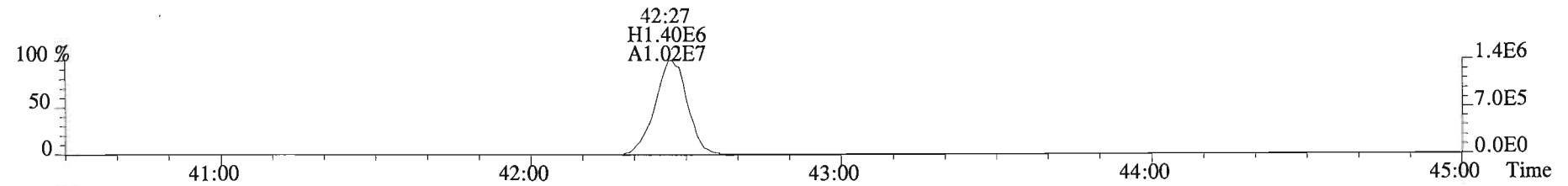
443.7398 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



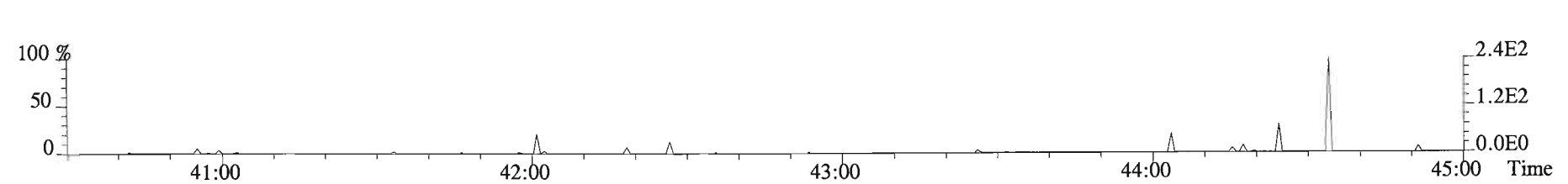
453.7831 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Client ID: ST-OF-01-20150210-W
Lab ID: 1500166-03

Filename: 150226D1 S:10 Acq:26-FEB-15 16:59:18
GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15

wt/vol: 1.015
ConCal: ST150226D1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	*	* n	1.17	NotF η	*	*		991	2.5	1.71	Total Tetra-Dioxins	*	*		991	1.71
1,2,3,7,8-PeCDD	*	* n	0.91	NotF η	*	*		3780	1.0	2.50	Total Penta-Dioxins	11.1	13.0		*	*
1,2,3,4,7,8-HxCDD	3.56e+04	0.99 n	1.08	34:58	1.000	5.5760	*	*	2.5	*	Total Hexa-Dioxins	240	270		*	*
1,2,3,6,7,8-HxCDD	1.40e+05	1.16 y	1.06	35:05	1.000	24.472	*	*	2.5	*	Total Hepta-Dioxins	2790	2790		*	*
1,2,3,7,8,9-HxCDD	7.02e+04	1.57 n	0.93	35:23	1.000	11.326	*	*	2.5	*	Total Tetra-Furans	4.05	13.5		*	*
1,2,3,4,6,7,8-HpCDD	4.77e+06	1.05 y	1.10	38:55	1.000	799.35	*	*	2.5	*	Total Penta-Furans	44.331	45.599		*	*
OCDD	3.92e+07	0.89 y	0.95	42:16	1.000	9108.0	*	*	2.5	*	Total Hexa-Furans	136	142		*	*
											Total Hepta-Furans	493	493		*	*
2,3,7,8-TCDF	1.89e+04	0.73 y	1.07	26:11	1.000	1.4559	*	*	1.0	*						
1,2,3,7,8-PeCDF	1.59e+04	1.11 n	1.07	30:26	1.000	1.2679	*	*	2.5	*						
2,3,4,7,8-PeCDF	2.92e+04	1.51 y	1.03	31:20	1.000	2.3012	*	*	2.5	*						
1,2,3,4,7,8-HxCDF	6.46e+04	0.95 n	1.38	34:05	1.000	5.6732	*	*	2.5	*						
1,2,3,6,7,8-HxCDF	5.20e+04	1.18 y	1.26	34:13	1.001	4.0416	*	*	2.5	*						
2,3,4,6,7,8-HxCDF	6.92e+04	1.23 y	1.29	34:48	1.000	6.5454	*	*	2.5	*						
1,2,3,7,8,9-HxCDF	*	* n	1.19	NotF η	*	*		1390	1.0	1.24						
1,2,3,4,6,7,8-HpCDF	1.09e+06	1.12 y	1.61	37:37	1.000	120.97	*	*	2.5	*						
1,2,3,4,7,8,9-HpCDF	8.42e+04	1.02 y	1.53	39:28	1.001	9.9834	*	*	2.5	*						
OCDF	3.56e+06	0.90 y	1.10	42:29	1.000	604.88	*	*	2.5	*						
											Rec	Qual				
IS	13C-2,3,7,8-TCDD	1.63e+07	0.80 y	1.06	26:60	1.022	1356.0				68.8					
IS	13C-1,2,3,7,8-PeCDD	1.64e+07	0.61 y	1.18	31:37	1.197	1232.0				62.5					
IS	13C-1,2,3,4,7,8-HxCDD	1.17e+07	1.25 y	0.72	34:58	1.014	1248.8				63.4					
IS	13C-1,2,3,6,7,8-HxCDD	1.06e+07	1.25 y	0.74	35:05	1.017	1109.2				56.3					
IS	13C-1,2,3,7,8,9-HxCDD	1.31e+07	1.24 y	0.85	35:22	1.026	1185.9				60.2					
IS	13C-1,2,3,4,6,7,8-HpCDD	1.06e+07	1.09 y	0.65	38:55	1.128	1255.9				63.8					
IS	13C-OCDD	1.79e+07	0.90 y	0.76	42:16	1.225	1804.0				45.8					
IS	13C-2,3,7,8-TCDF	2.39e+07	0.75 y	0.92	26:11	0.991	1341.2				68.1					
IS	13C-1,2,3,7,8-PeCDF	2.30e+07	1.58 y	0.92	30:25	1.151	1290.8				65.5					
IS	13C-2,3,4,7,8-PeCDF	2.42e+07	1.55 y	0.93	31:20	1.186	1341.7				68.1					
IS	13C-1,2,3,4,7,8-HxCDF	1.62e+07	0.52 y	0.98	34:04	0.988	1274.2				64.7					
IS	13C-1,2,3,6,7,8-HxCDF	2.02e+07	0.51 y	1.08	34:12	0.992	1437.2				73.0					
IS	13C-2,3,4,6,7,8-HxCDF	1.61e+07	0.51 y	1.03	34:48	1.009	1214.3				61.6					
IS	13C-1,2,3,7,8,9-HxCDF	1.35e+07	0.50 y	0.86	35:45	1.037	1214.7				61.7					
IS	13C-1,2,3,4,6,7,8-HpCDF	1.10e+07	0.45 y	0.72	37:36	1.090	1174.0				59.6					
IS	13C-1,2,3,4,7,8,9-HpCDF	1.09e+07	0.44 y	0.70	39:27	1.144	1205.0				61.2					
IS	13C-OCDF	2.11e+07	0.88 y	0.85	42:28	1.231	1919.3				48.7					
C/Up	37Cl-2,3,7,8-TCDD	1.06e+07		1.12	27:01	1.022	839.39				107					
RS/RT	13C-1,2,3,4-TCDD	2.23e+07	0.81 y	1.00	26:25	*	1970.0									
RS	13C-1,2,3,4-TCDF	3.82e+07	0.78 y	1.00	24:56	*	1970.0									
RS/RT	13C-1,2,3,4,6,9-HxCDF	2.55e+07	0.52 y	1.00	34:29	*	1970.0									

Integrations
by
Analyst: MJ
Date: 2/27/15
Reviewed
by
Analyst: [Signature]
Date: 2/27/15

Totals class: PeCDD EMPC

Entry #: 21

Run: 12 File: 150226D1 S: 10 I: 1 F: 2
Acquired: 26-FEB-15 16:59:18 Processed: 27-FEB-15 08:00:48

Total Concentration: 12.974

Unnamed Concentration: 12.974

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
29:33	1.219e+04	2.184e+04	0.56	y	3.404e+04	4.4918
30:00	7.688e+03	8.836e+03	0.87	n	1.440e+04	1.9008
30:27	7.451e+03	1.266e+04	0.59	y	2.011e+04	2.6536
30:36	7.467e+03	1.115e+04	0.67	y	1.862e+04	2.4576
30:41	4.262e+03	6.875e+03	0.62	y	1.114e+04	1.4699

Totals class: HxCDD EMPC

Entry #: 23

Run: 12 File: 150226D1 S: 10 I: 1 F: 3
Acquired: 26-FEB-15 16:59:18 Processed: 27-FEB-15 08:00:48

Total Concentration: 269.54 Unnamed Concentration: 228.164

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
33:26	3.419e+05	2.911e+05	1.17	y	6.330e+05	103.82
34:01	4.118e+04	4.062e+04	1.01	n	7.438e+04	12.200
34:16	3.264e+05	2.657e+05	1.23	y	5.920e+05	97.101
34:24	4.781e+04	4.392e+04	1.09	y	9.174e+04	15.046
34:58	1.968e+04	1.996e+04	0.99	n	3.556e+04	5.5760 1,2,3,4,7,8-HxCDD
35:05	7.528e+04	6.466e+04	1.16	y	1.399e+05	24.472 1,2,3,6,7,8-HxCDD
35:23	4.912e+04	3.134e+04	1.57	n	7.020e+04	11.326 1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC

Entry #: 25

Run: 12 File: 150226D1 S: 10 I: 1 F: 4
Acquired: 26-FEB-15 16:59:18 Processed: 27-FEB-15 08:00:48

Total Concentration: 2789.3

Unnamed Concentration: 1989.976

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
38:02	6.050e+06	5.817e+06	1.04	y	1.187e+07	1990.0
38:55	2.442e+06	2.325e+06	1.05	y	4.767e+06	799.35 1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC

Entry #: 27

Run: 12 File: 150226D1 S: 10 I: 1 F: 1
 Acquired: 26-FEB-15 16:59:18 Processed: 27-FEB-15 08:00:48

Total Concentration: 13.465 Unnamed Concentration: 12.009

RT	m1 Resp	m2 Resp	RA		Resp Concentration		Name
22:28	1.587e+04	2.531e+04	0.63	n	3.647e+04	2.8122	
23:27	1.167e+04	1.245e+04	0.94	n	2.204e+04	1.6998	
24:12	6.704e+03	1.360e+04	0.49	n	1.541e+04	1.1882	
24:49	1.076e+04	1.193e+04	0.90	n	2.111e+04	1.6276	
25:23	5.501e+03	9.287e+03	0.59	n	1.264e+04	0.97502	
26:01	7.898e+03	8.181e+03	0.97	n	1.448e+04	1.1166	
26:11	7.944e+03	1.094e+04	0.73	y	1.888e+04	1.4559	2,3,7,8-TCDF
26:33	1.407e+04	1.952e+04	0.72	y	3.359e+04	2.5897	

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 12 File: 150226D1 S: 10 I: 1 F: 1
Acquired: 26-FEB-15 16:59:18 Processed: 27-FEB-15 08:00:48

Total Concentration: 22.118 Unnamed Concentration: 22.118

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
28:02	1.683e+05	1.111e+05	1.51 y	2.794e+05	22.118

Totals class: PeCDF EMPC

Entry #: 31

Run: 12 File: 150226D1 S: 10 I: 1 F: 2
Acquired: 26-FEB-15 16:59:18 Processed: 27-FEB-15 08:00:48

Total Concentration: 23.481 Unnamed Concentration: 19.912

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
29:29	8.721e+04	5.673e+04	1.54	y	1.439e+05	11.394
30:03	2.870e+04	2.166e+04	1.33	y	5.036e+04	3.9869
30:26	9.687e+03	8.725e+03	1.11	n	1.594e+04	1.2679
30:41	2.018e+04	1.138e+04	1.77	y	3.156e+04	2.4986
31:20	1.758e+04	1.161e+04	1.51	y	2.919e+04	2.3012
31:23	1.643e+04	9.238e+03	1.78	y	2.567e+04	2.0317

Totals class: HxCDF EMPC

Entry #: 33

Run: 12 File: 150226D1 S: 10 I: 1 F: 3
 Acquired: 26-FEB-15 16:59:18 Processed: 27-FEB-15 08:00:48

Total Concentration: 142.10 Unnamed Concentration: 125.842

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Concentration	Name
32:54	1.022e+05	7.572e+04	1.35 y	1.779e+05	16.561	
33:03	3.033e+05	2.454e+05	1.24 y	5.488e+05	51.090	
33:36	3.565e+05	2.559e+05	1.39 y	6.124e+05	57.016	
34:05	3.574e+04	3.749e+04	0.95 n	6.456e+04	5.6732	1,2,3,4,7,8-HxCDF
34:13	2.816e+04	2.386e+04	1.18 y	5.202e+04	4.0416	1,2,3,6,7,8-HxCDF
34:48	3.811e+04	3.105e+04	1.23 y	6.916e+04	6.5454	2,3,4,6,7,8-HxCDF
35:49	6.895e+03	5.734e+03	1.20 y	1.263e+04	1.1757	

Totals class: HpCDF EMPC

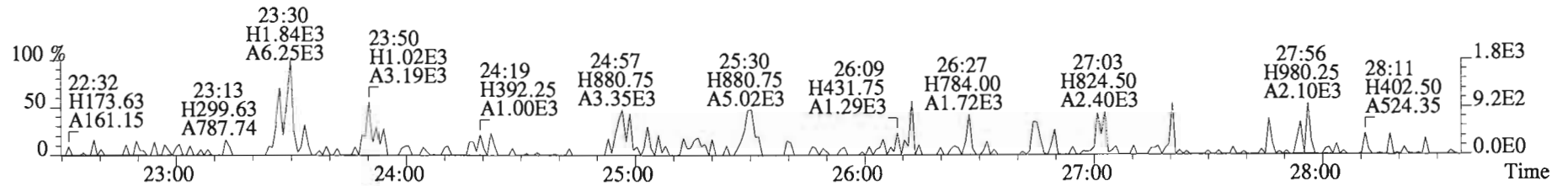
Entry #: 35

Run: 12 File: 150226D1 S: 10 I: 1 F: 4
Acquired: 26-FEB-15 16:59:18 Processed: 27-FEB-15 08:00:48

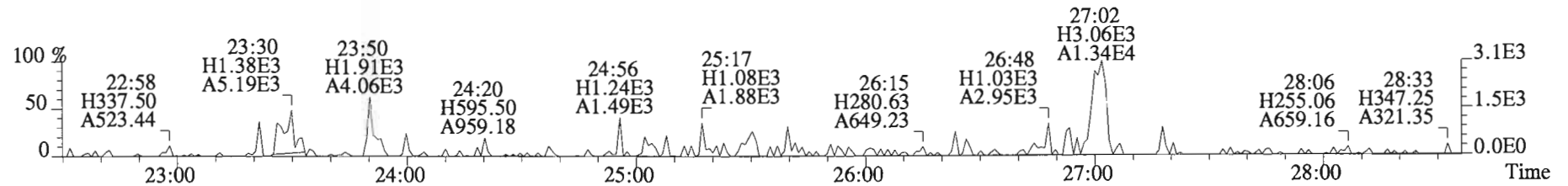
Total Concentration: 493.15 Unnamed Concentration: 362.189

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Resp Concentration	Name
37:37	5.733e+05	5.134e+05	1.12 y	1.087e+06	120.97	1,2,3,4,6,7,8-HpCDF
38:14	1.654e+06	1.499e+06	1.10 y	3.154e+06	362.19	
39:28	4.251e+04	4.166e+04	1.02 y	8.416e+04	9.9834	1,2,3,4,7,8,9-HpCDF

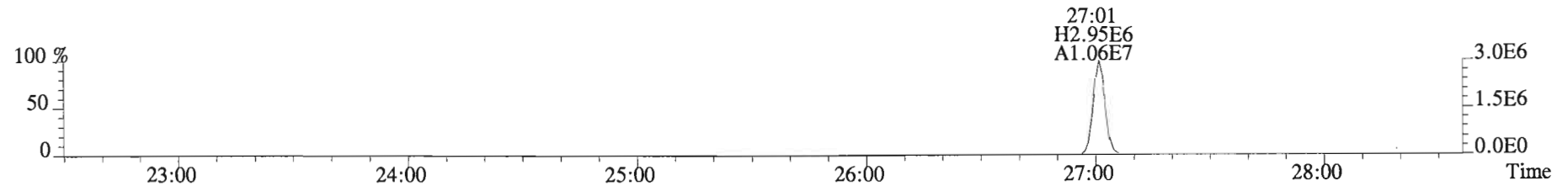
File:150226D1 #1-551 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
319.8965 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



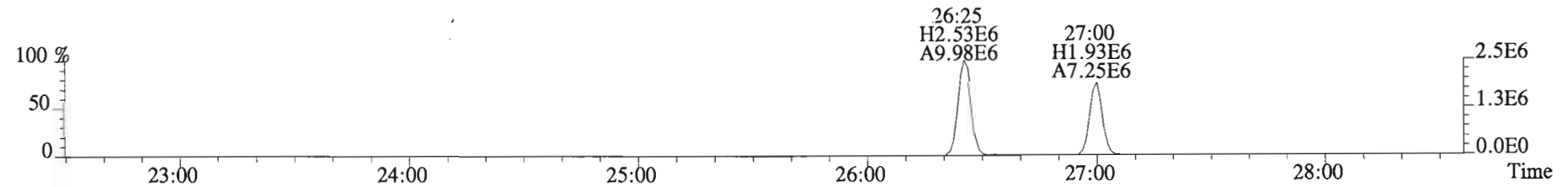
321.8936 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



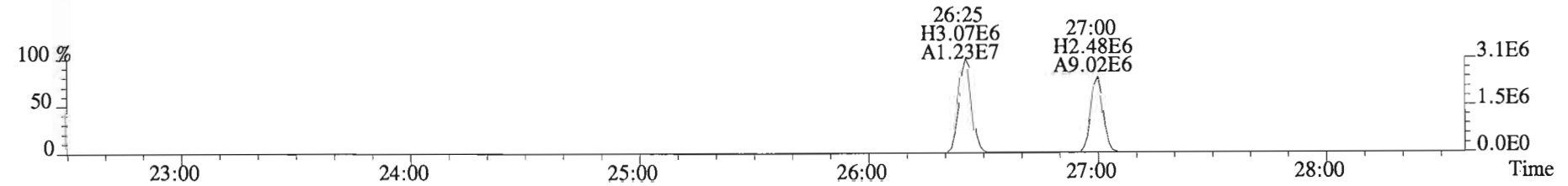
327.8847 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



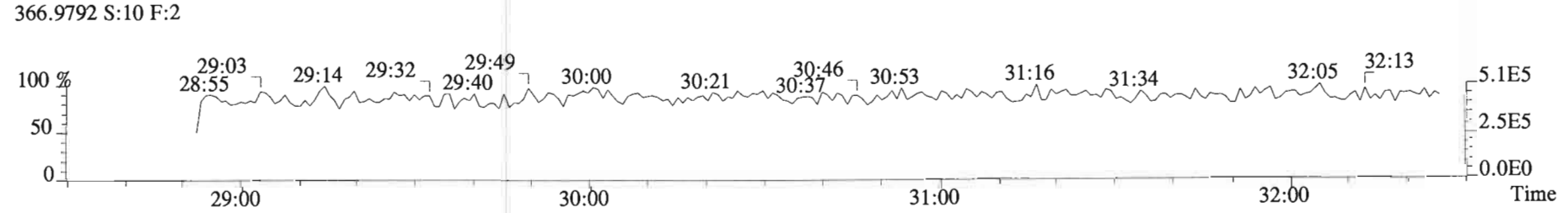
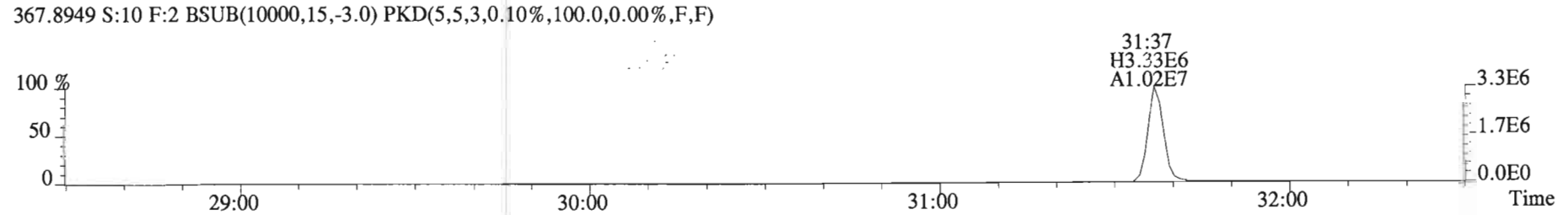
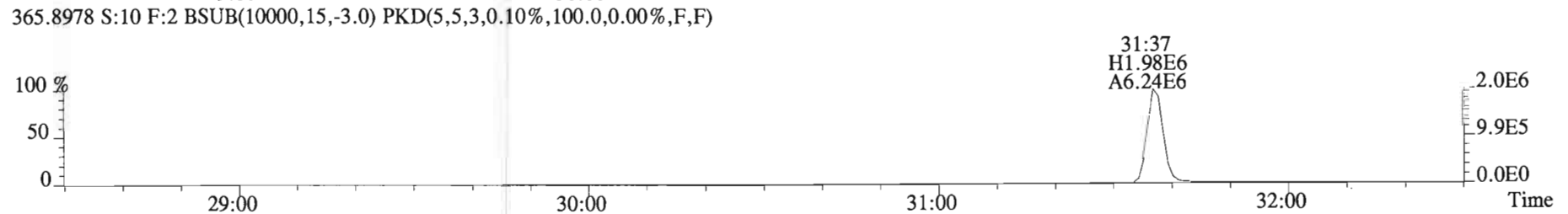
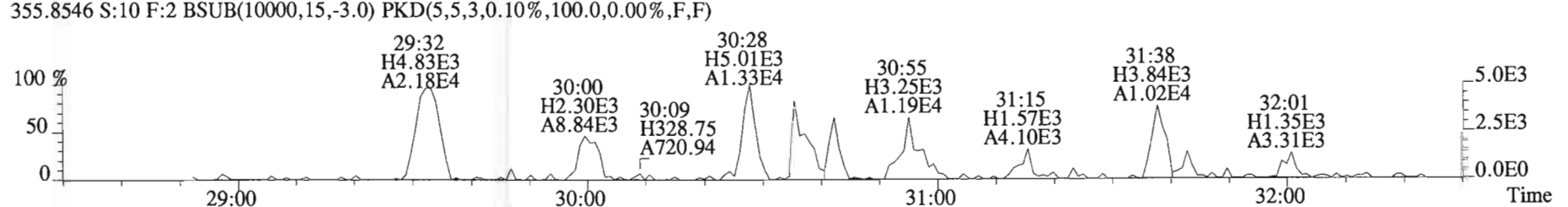
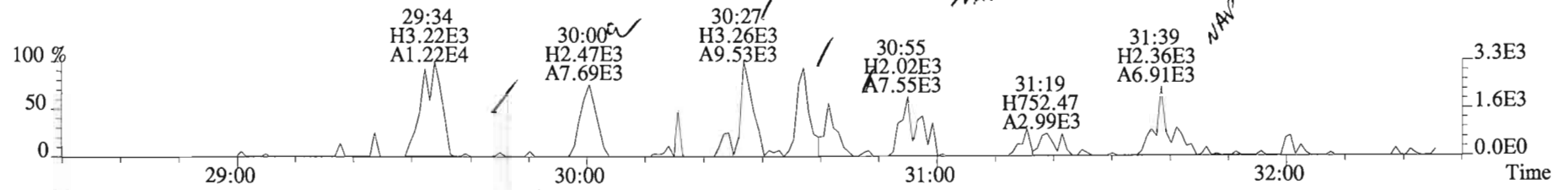
331.9368 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



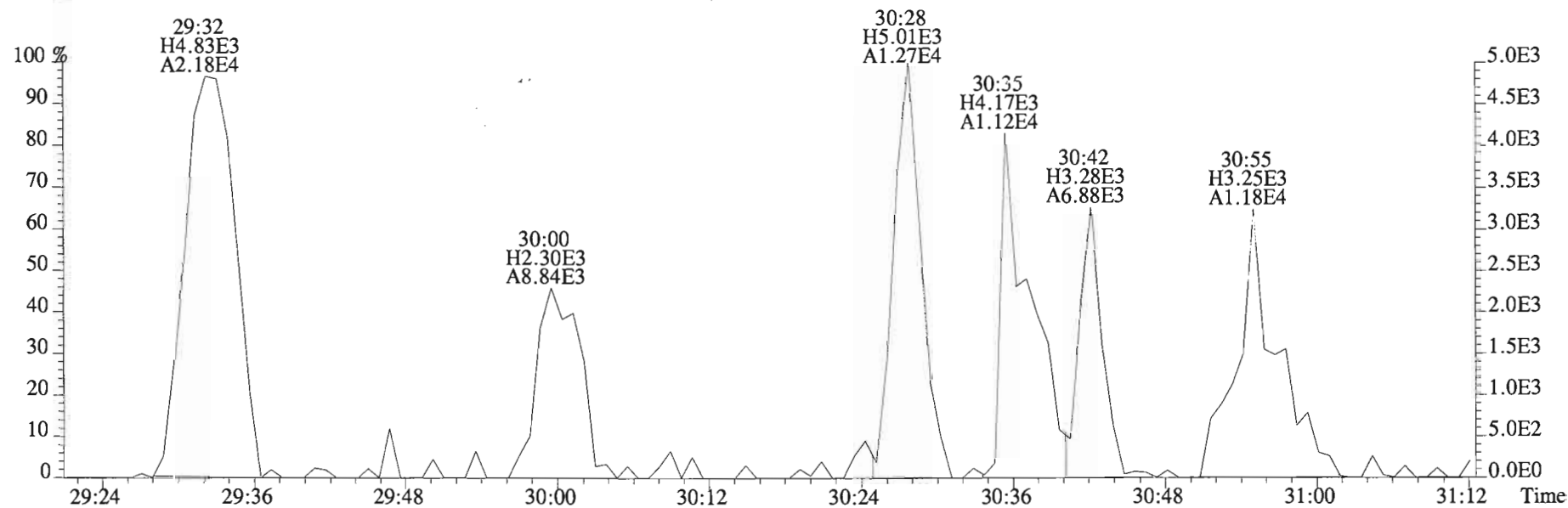
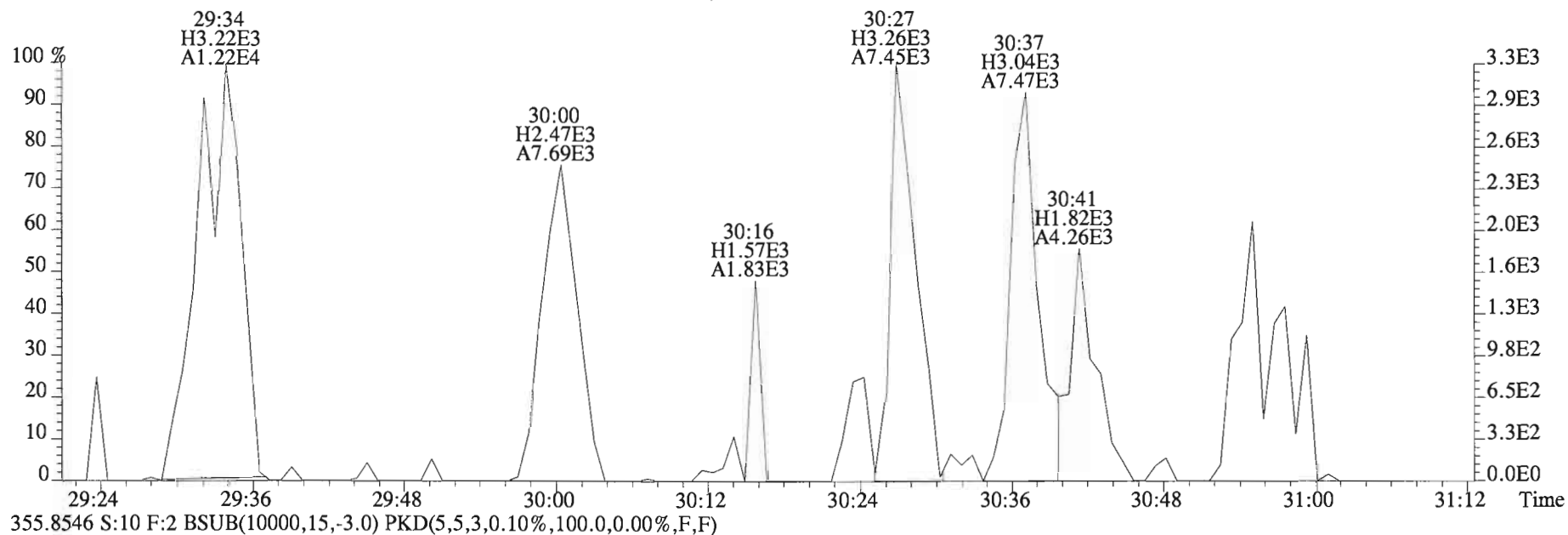
333.9339 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



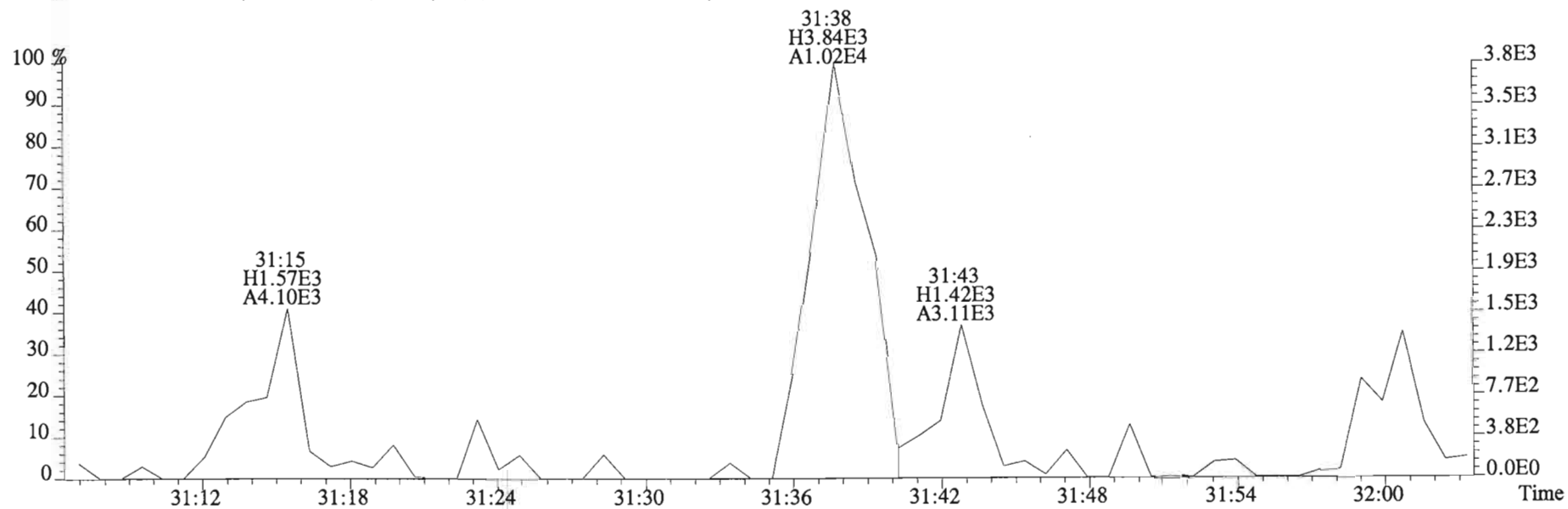
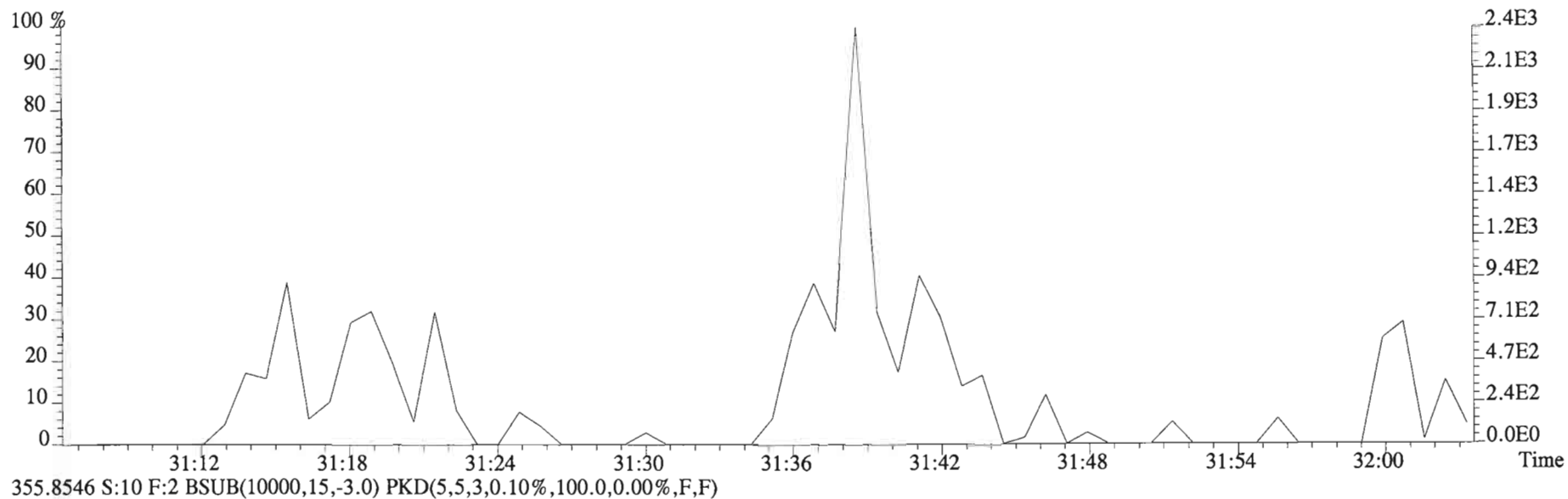
File:150226D1 #1-251 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
353.8576 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



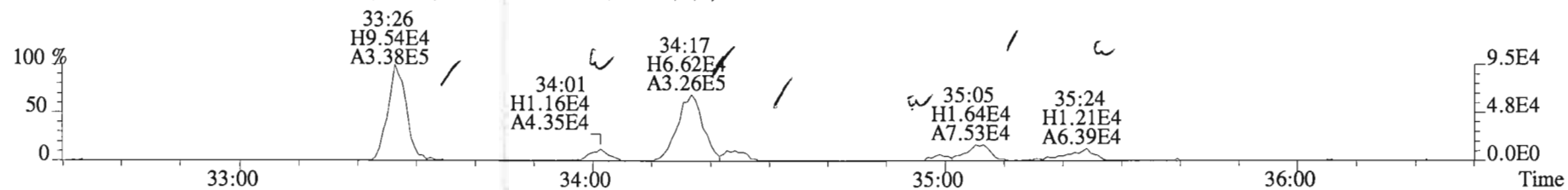
File:150226D1 #1-251 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
353.8576 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



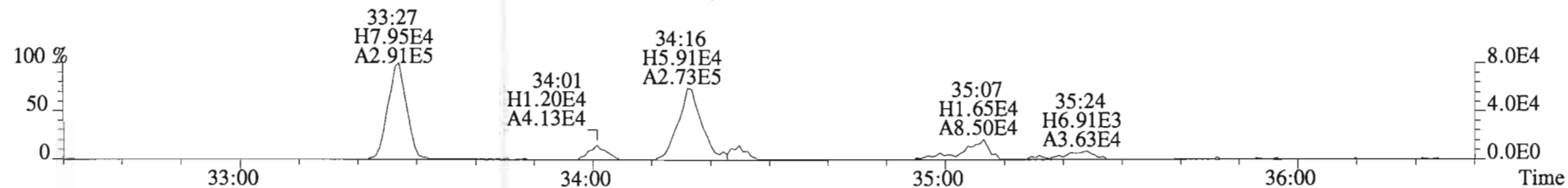
File:150226D1 #1-251 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
353.8576 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



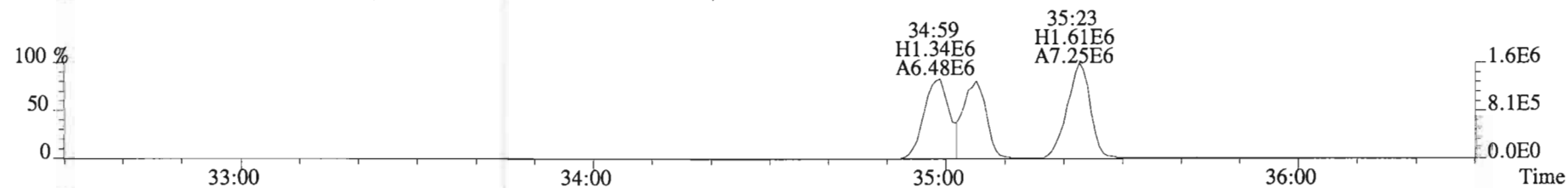
File:150226D1 #1-392 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
389.8156 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



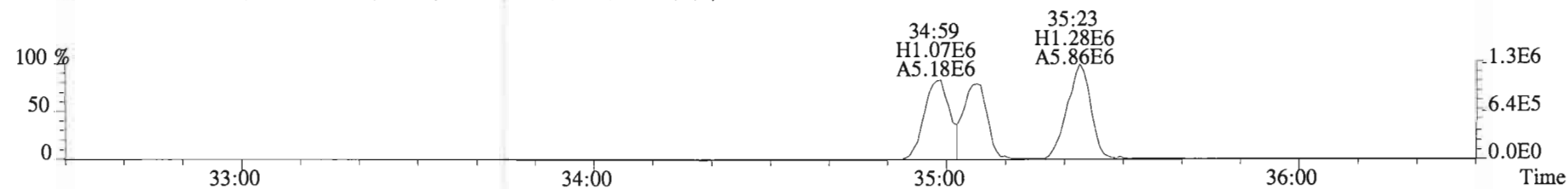
391.8127 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



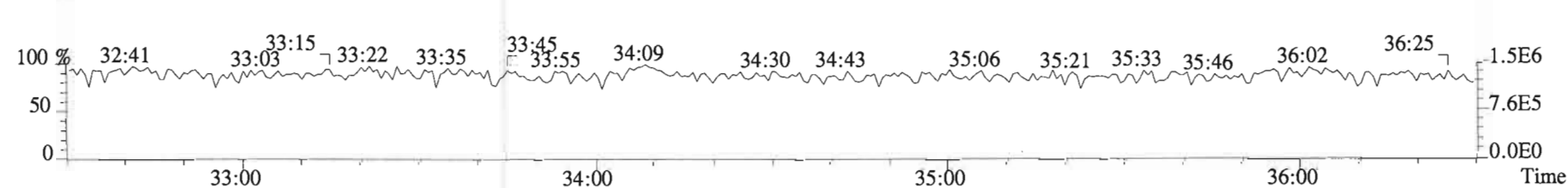
401.8559 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



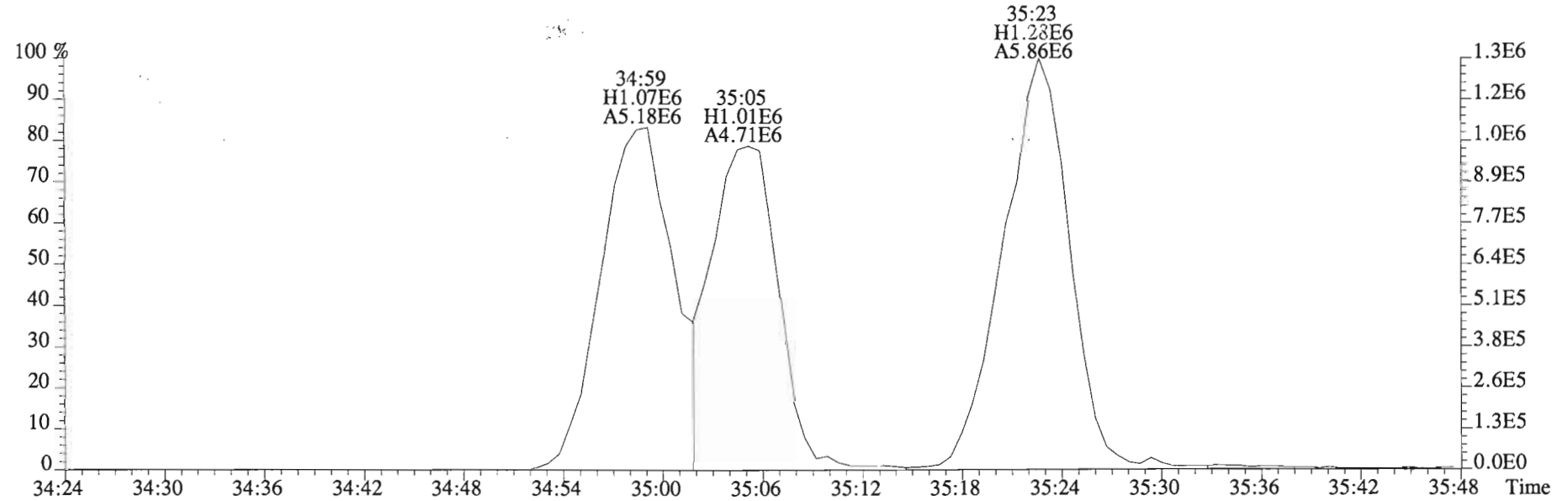
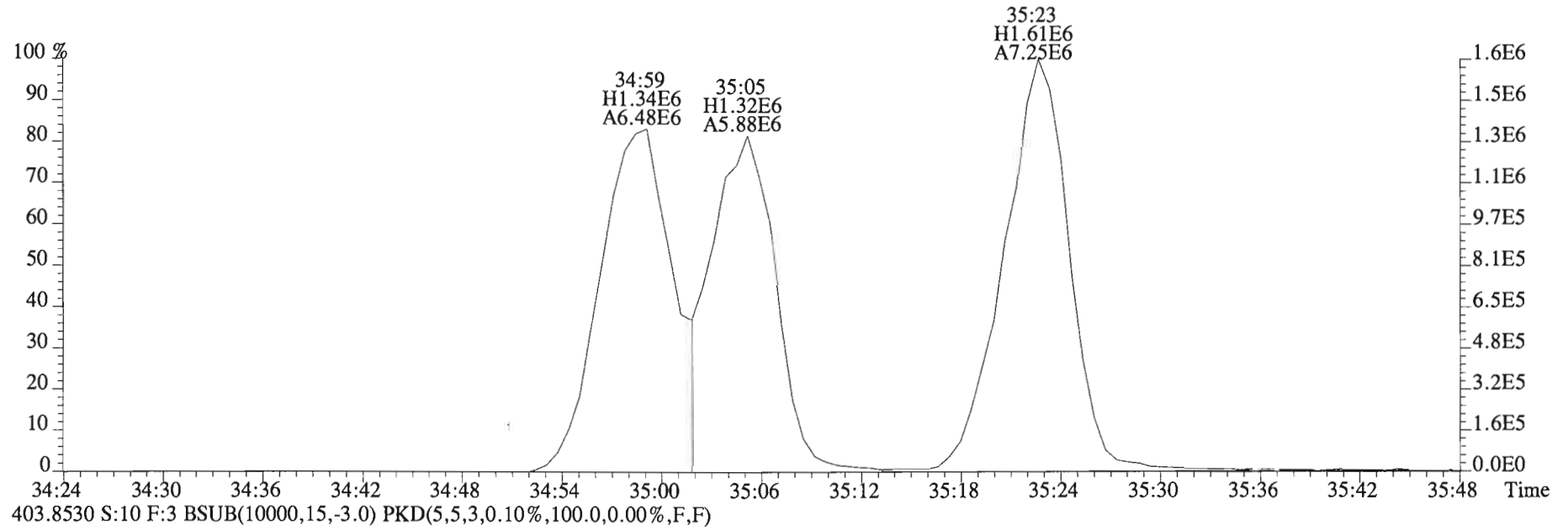
403.8530 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



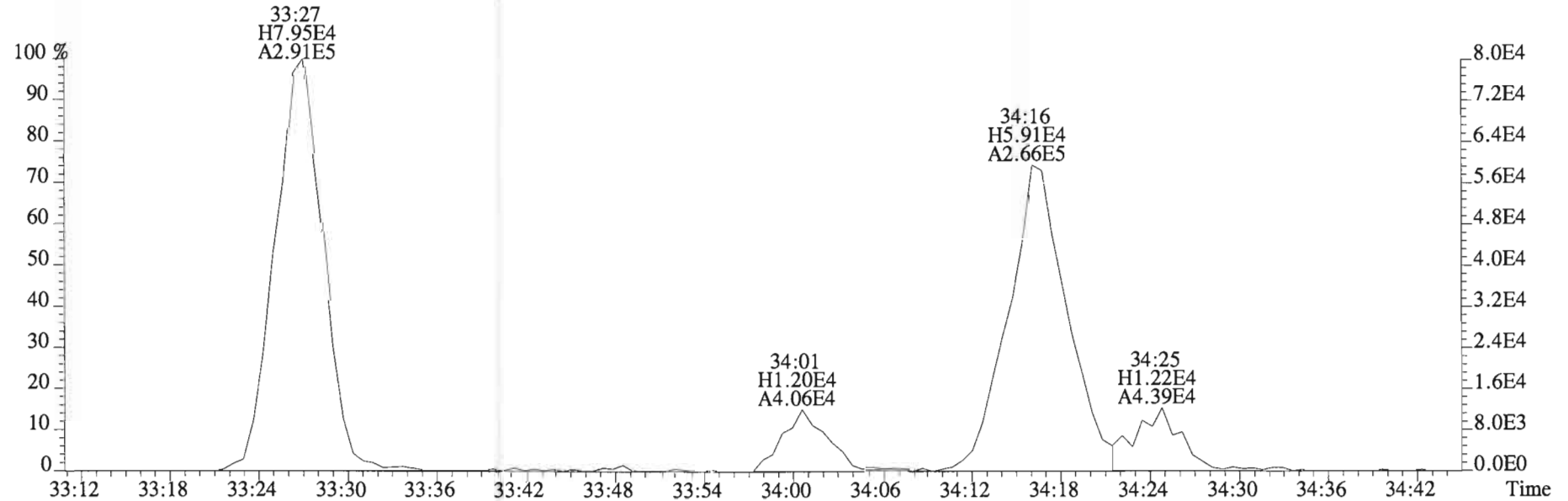
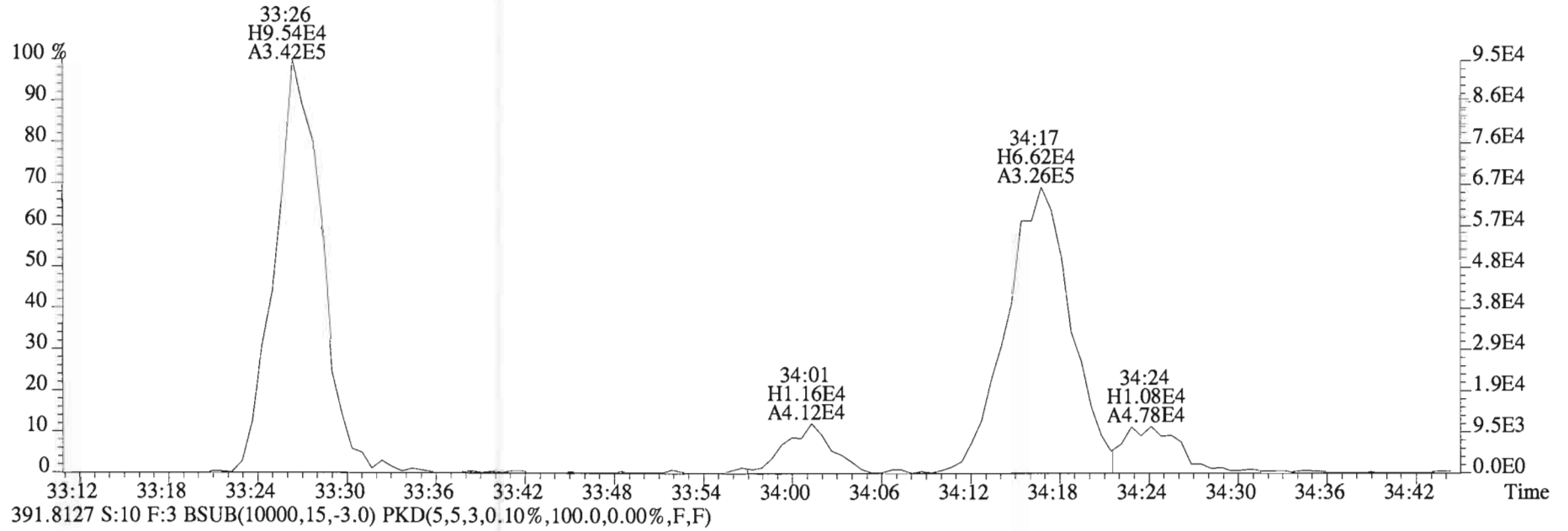
380.9760 S:10 F:3



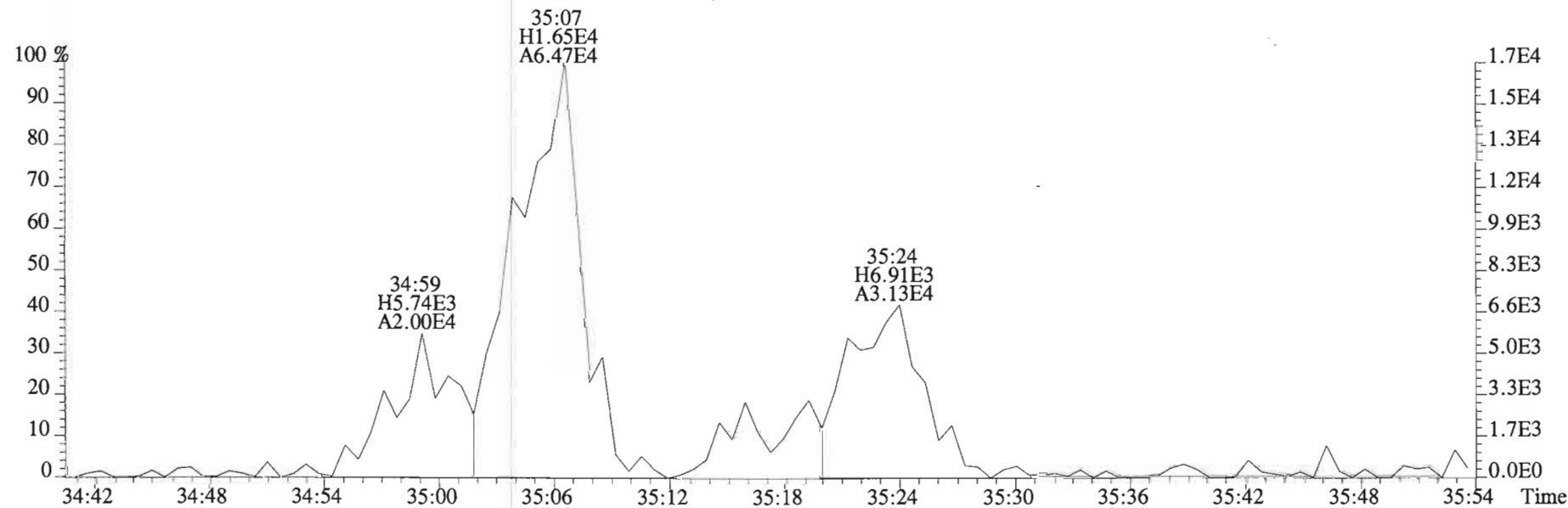
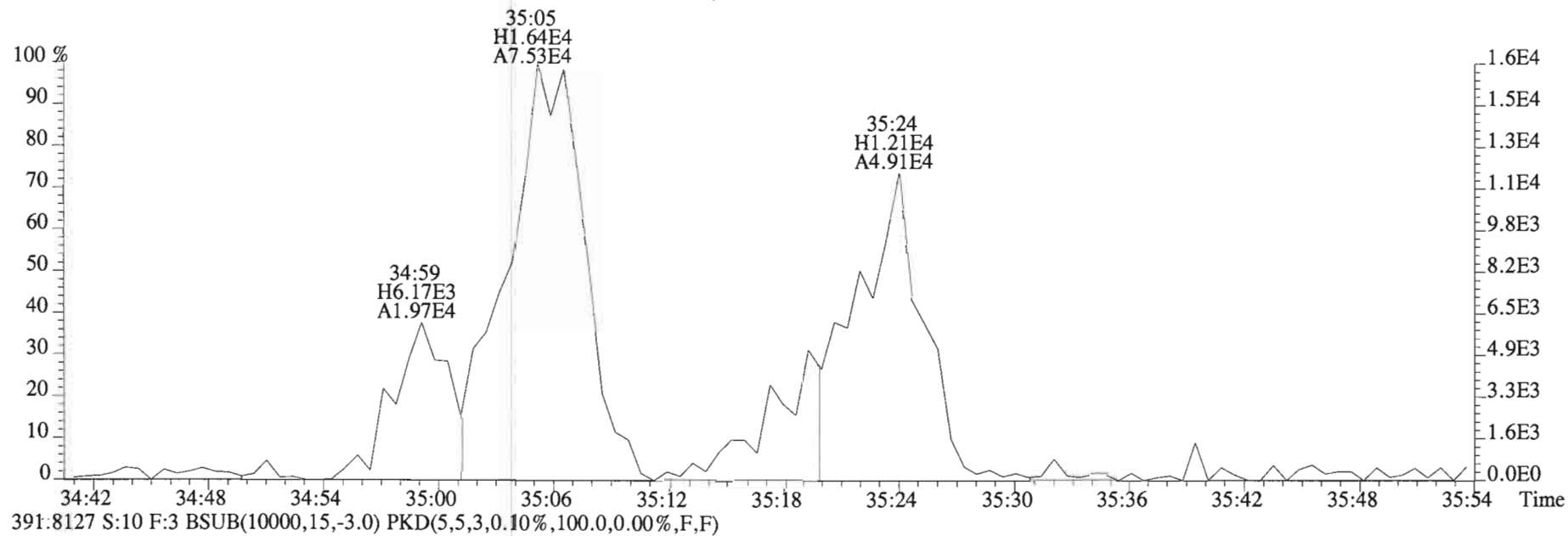
File:150226D1 #1-392 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
401.8559 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



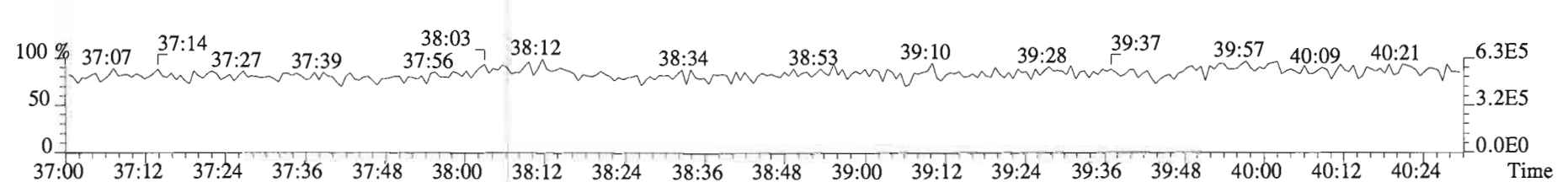
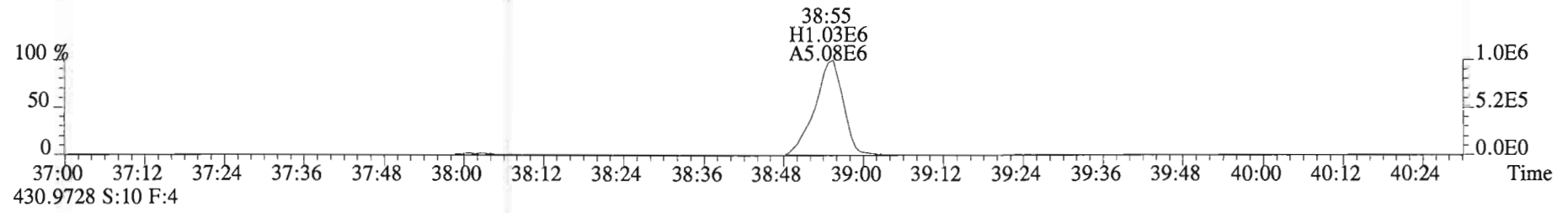
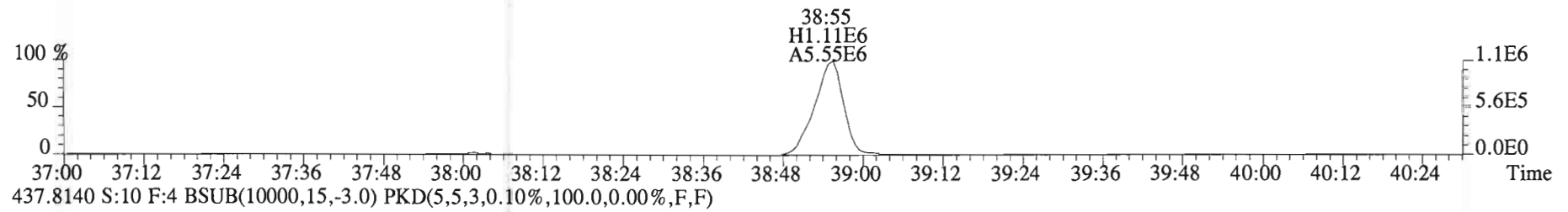
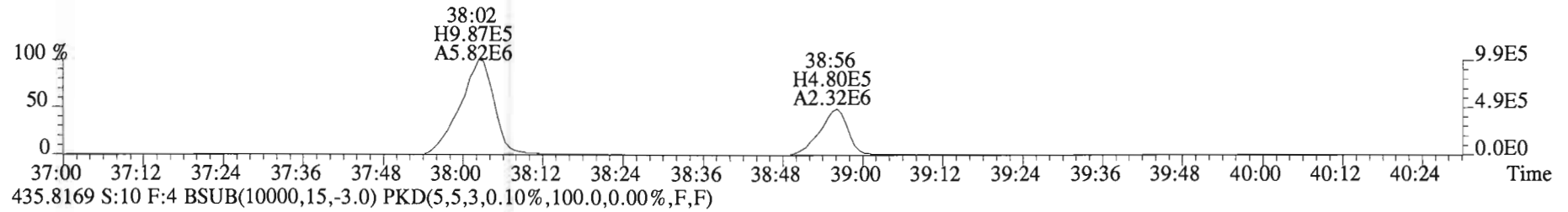
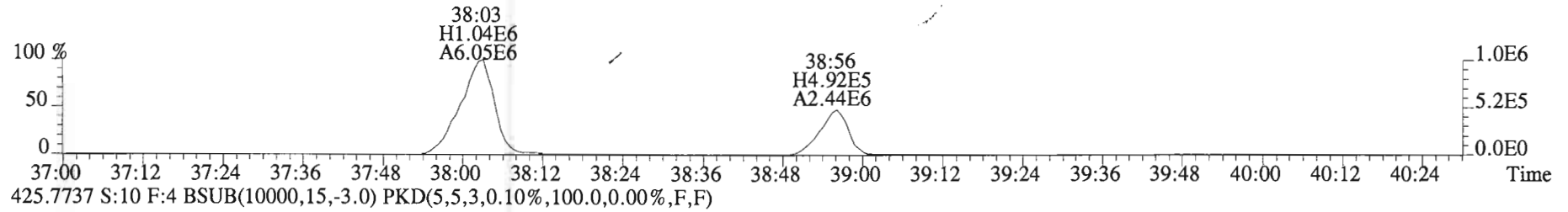
File:150226D1 #1-392 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
389.8156 S:10 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



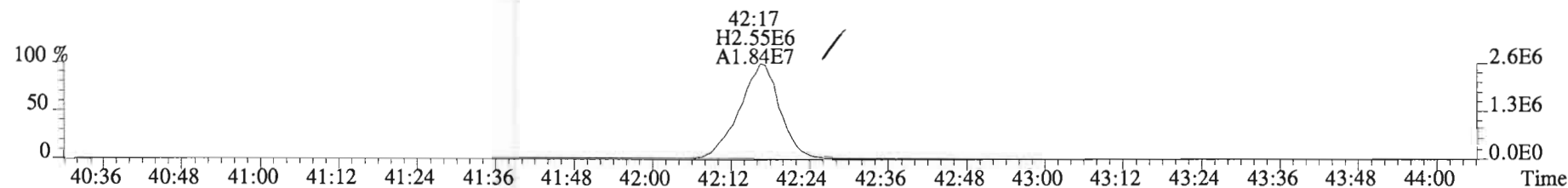
File:150226D1 #1-392 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
389.8156 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



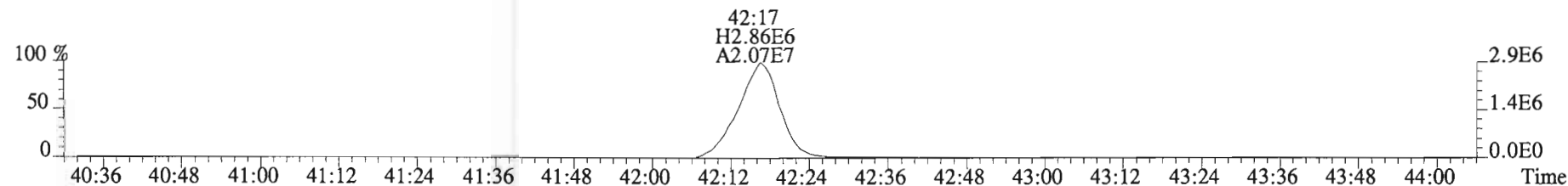
File:150226D1 #1-326 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
423.7767 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



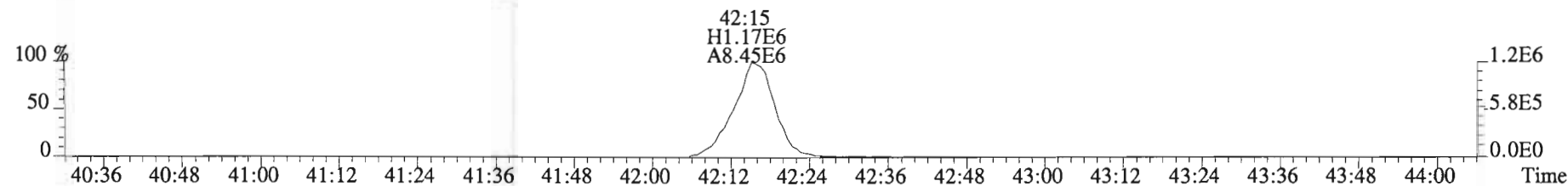
File:150226D1 #1-389 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
457.7377 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



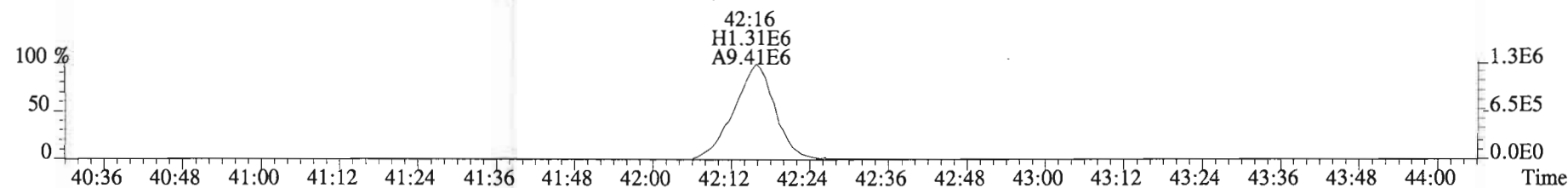
459.7348 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



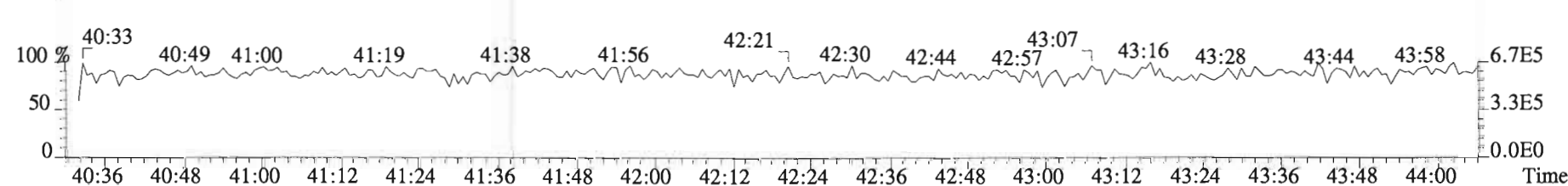
469.7780 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



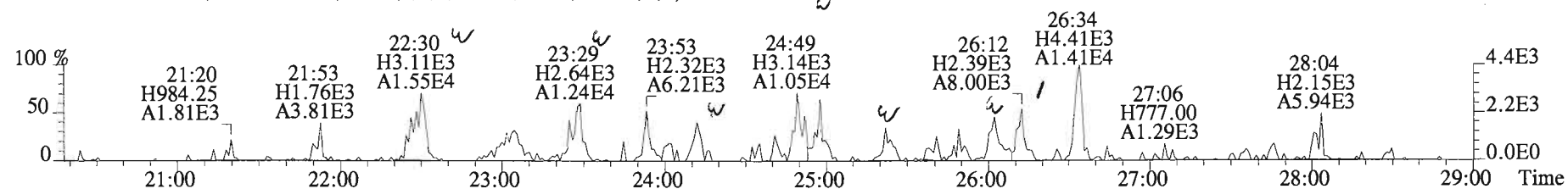
471.7750 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



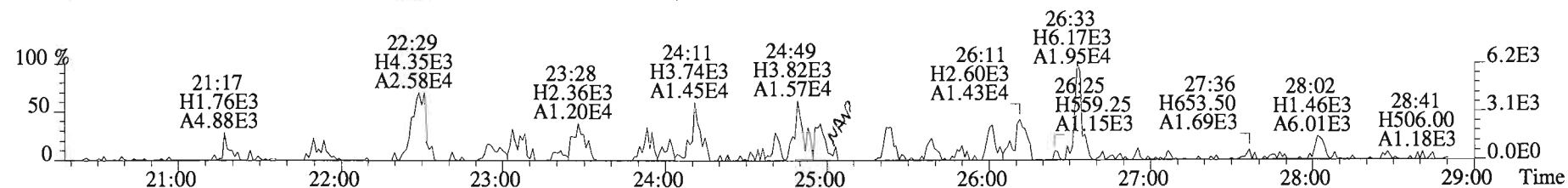
454.9728 S:10 F:5



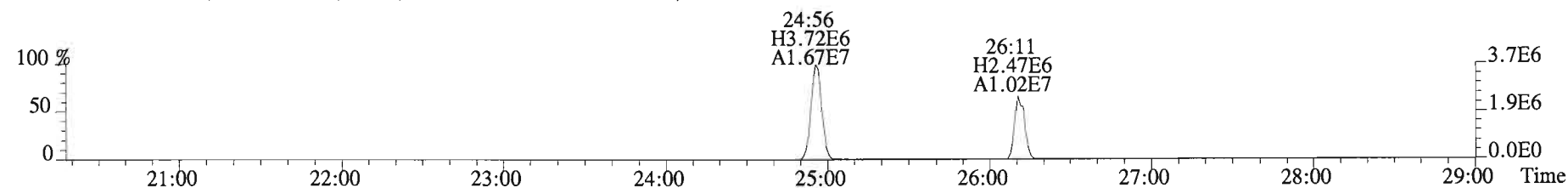
File:150226D1 #1-551 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5 /
303.9016 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



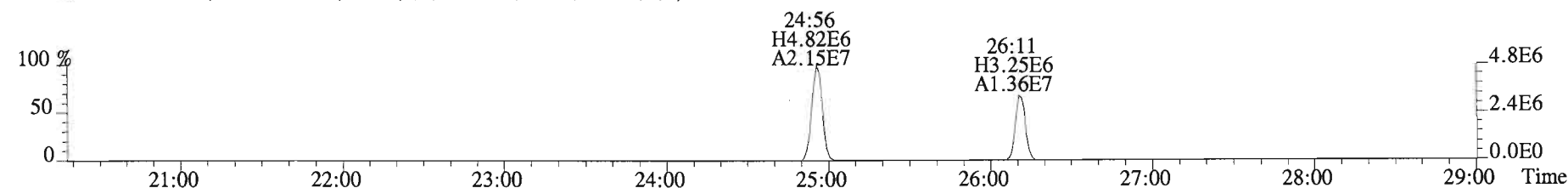
305.8987 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



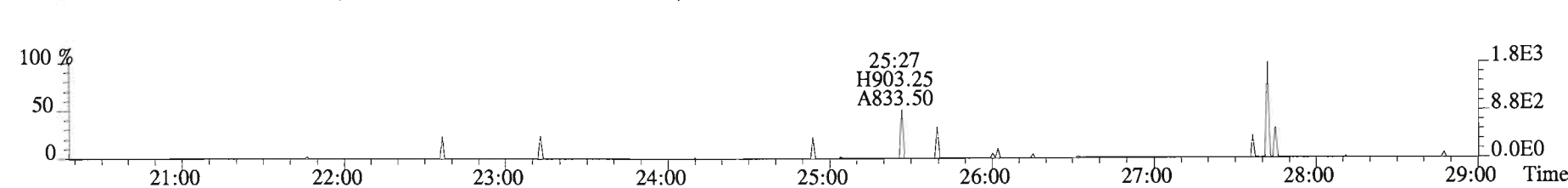
315.9419 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



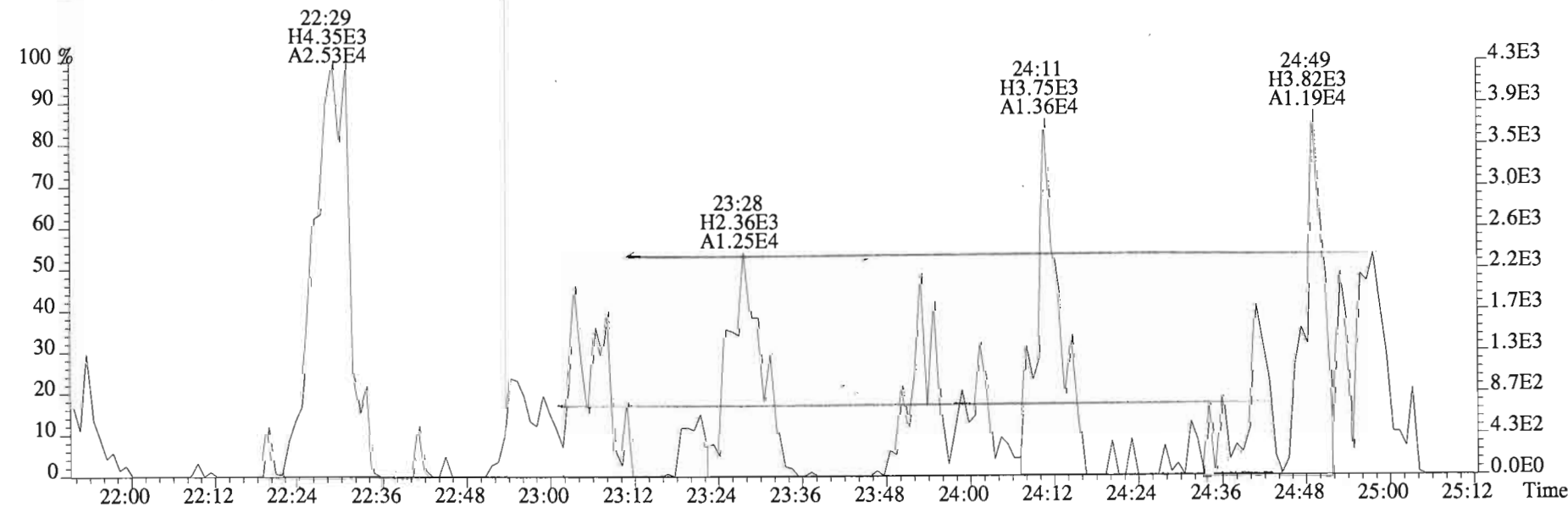
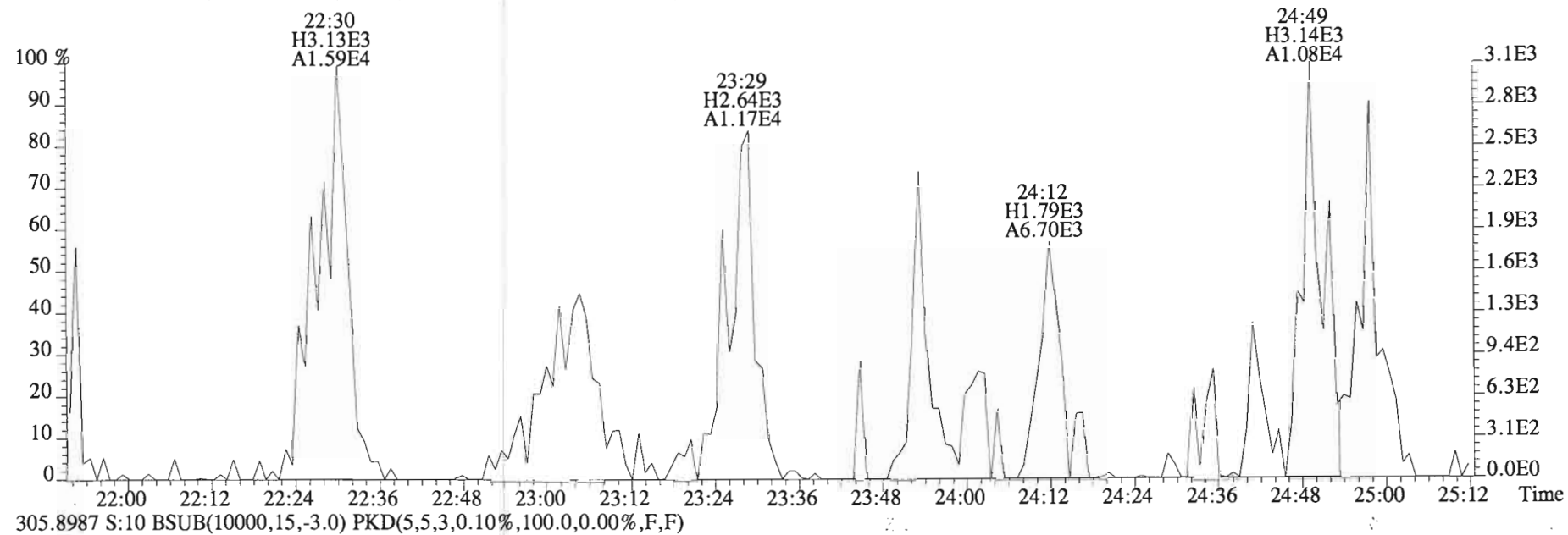
317.9389 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



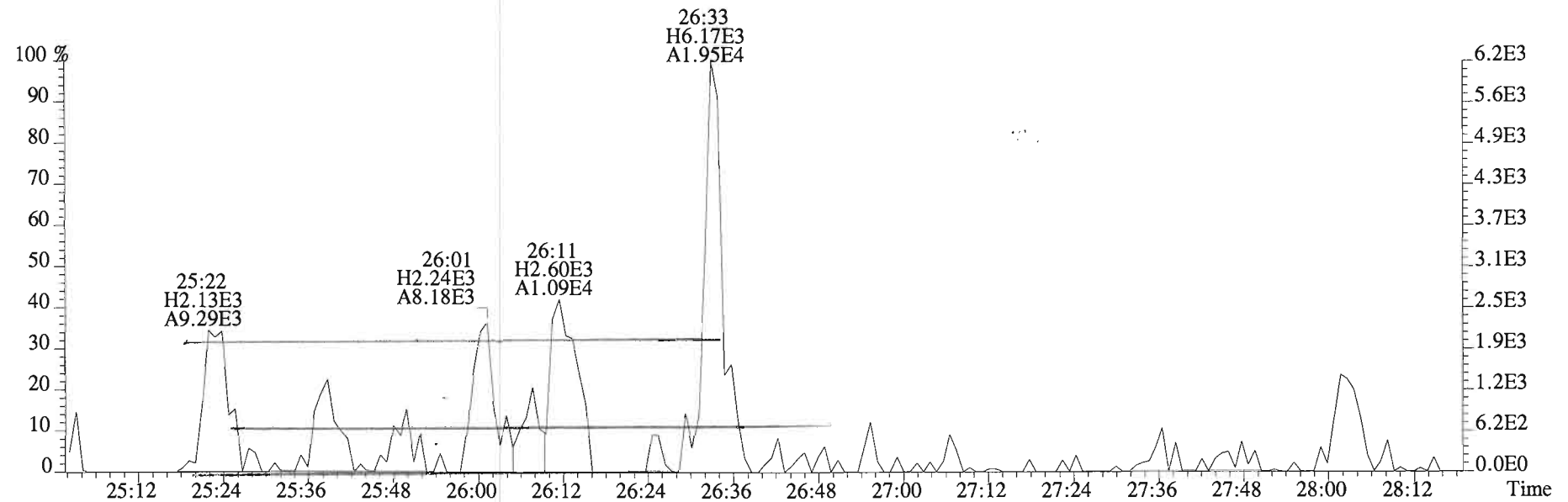
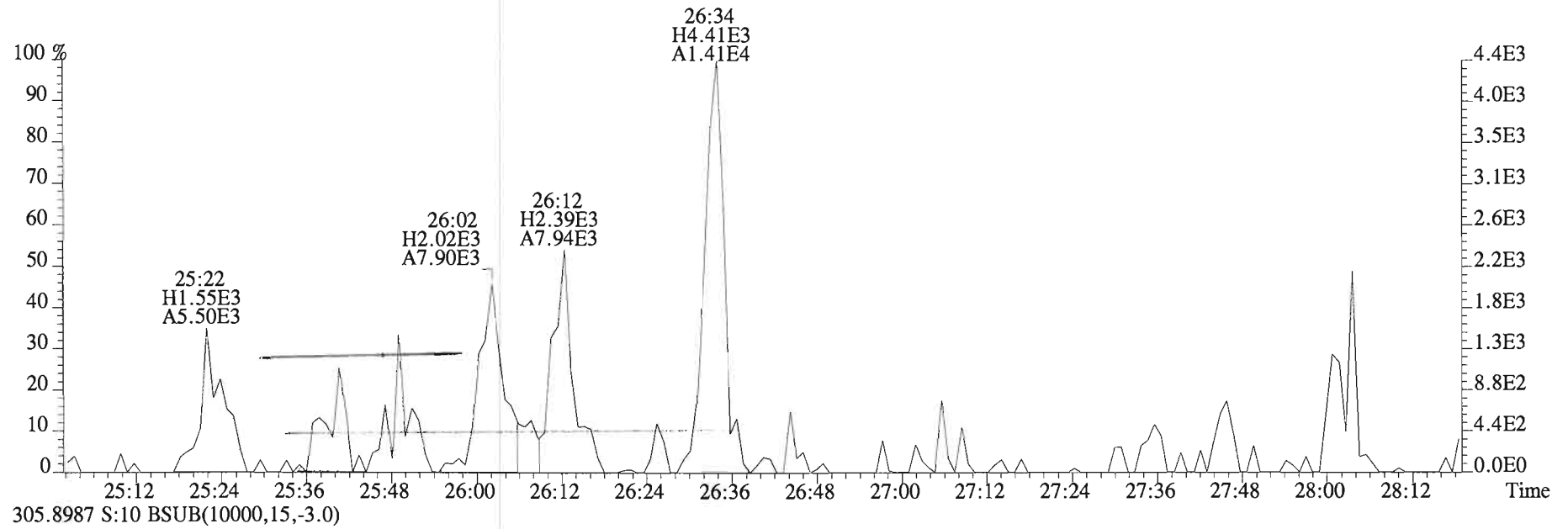
375.8364 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



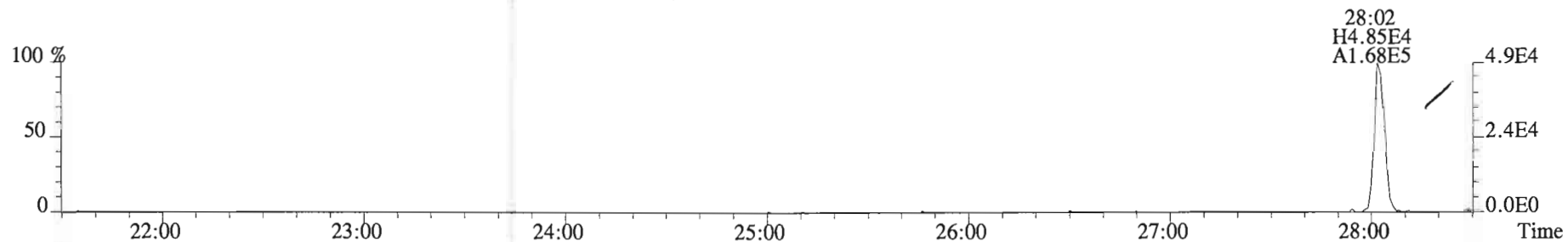
File:150226D1 #1-551 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
303.9016 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



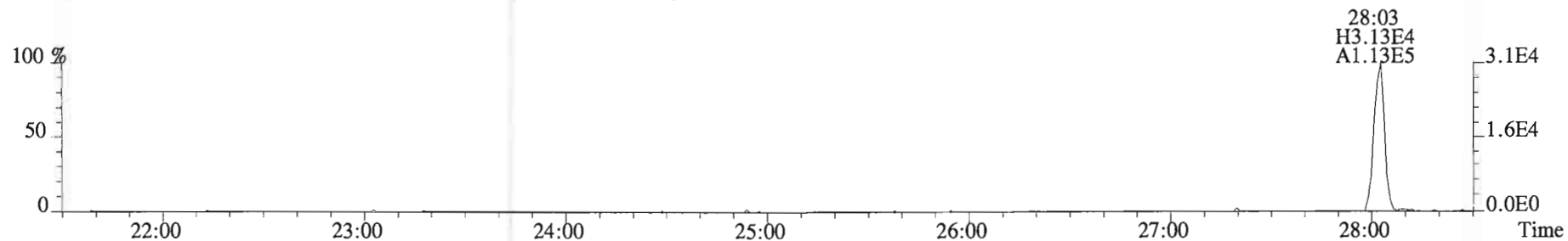
File:150226D1 #1-551 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
303.9016 S:10 BSUB(10000,15,-3.0)



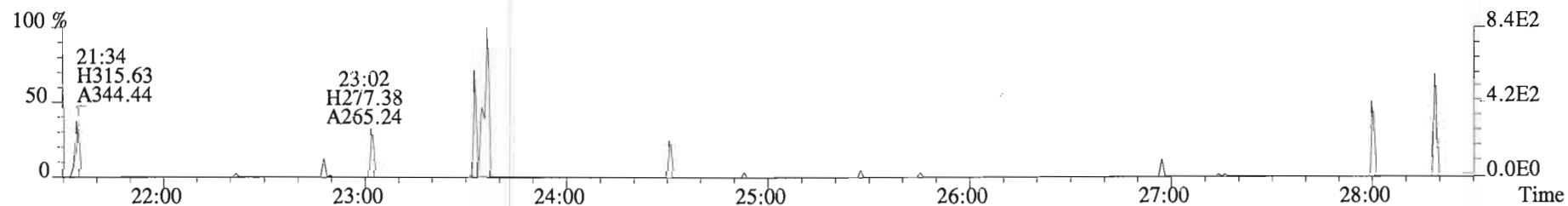
File:150226D1 #1-551 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
339.8597 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



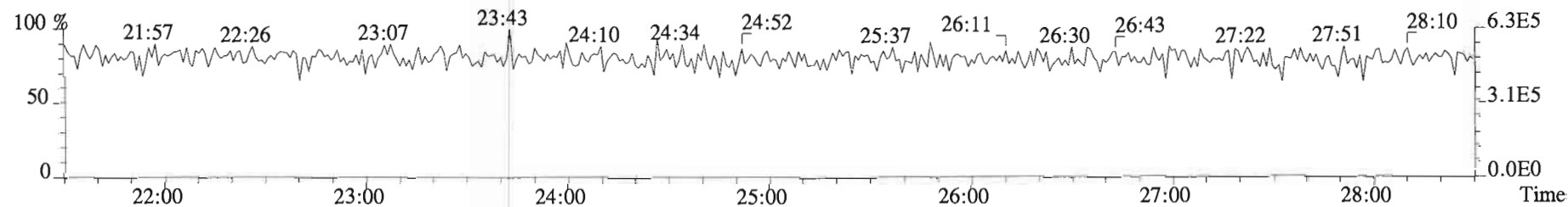
341.8568 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



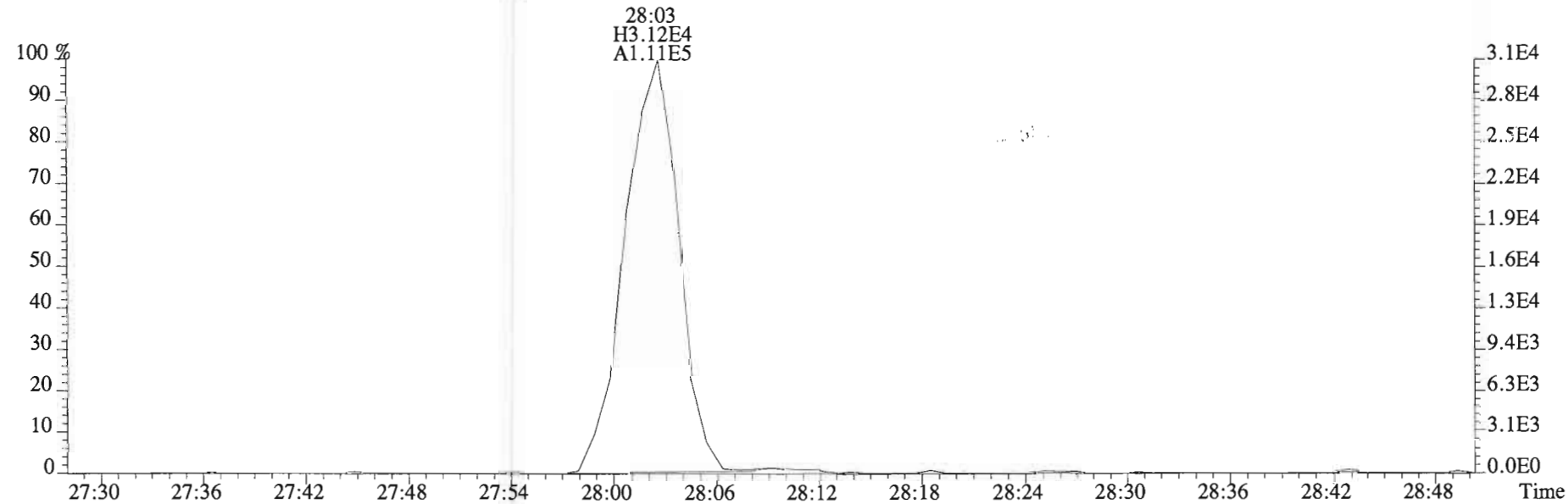
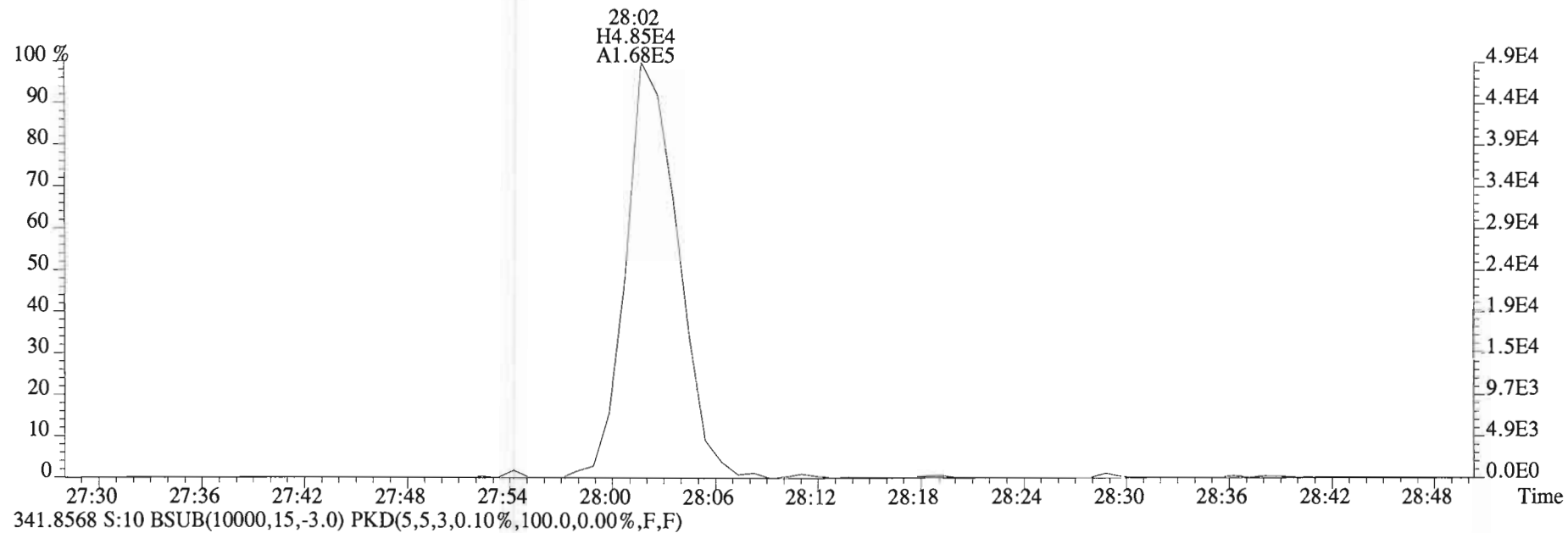
409.7974 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



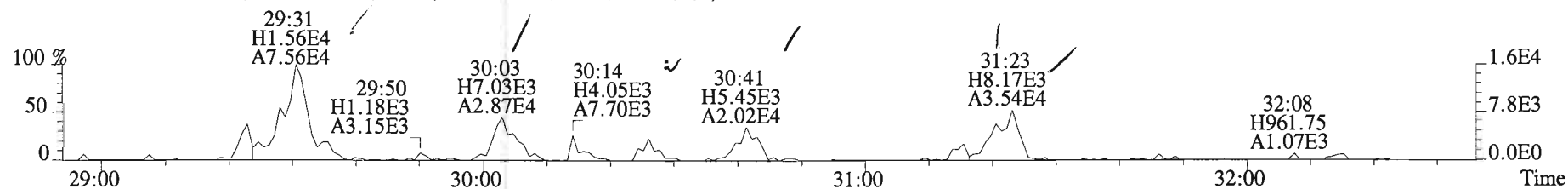
316.9824 S:10



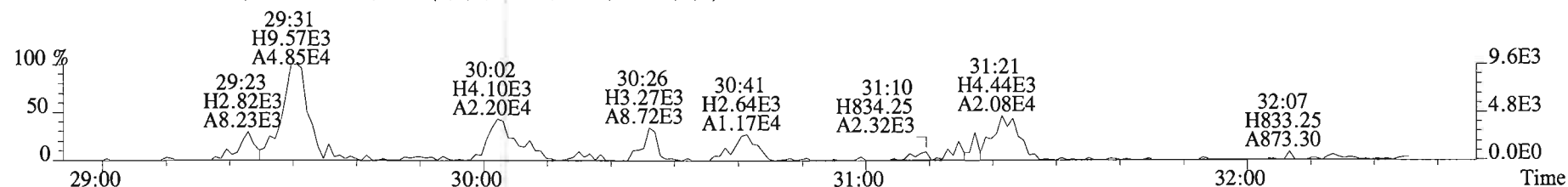
File:150226D1 #1-551 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
339.8597 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



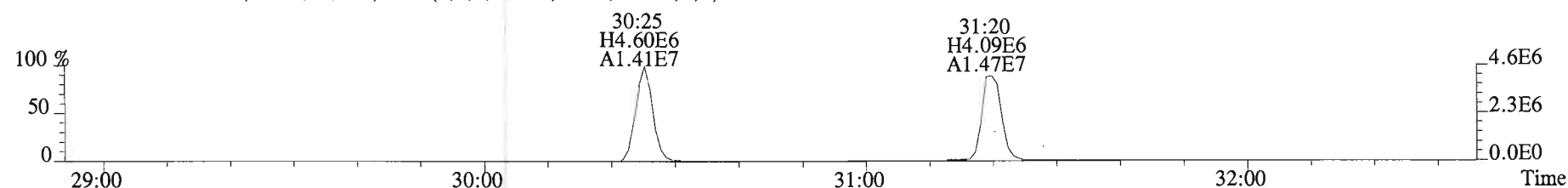
File:150226D1 #1-251 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
339.8597 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



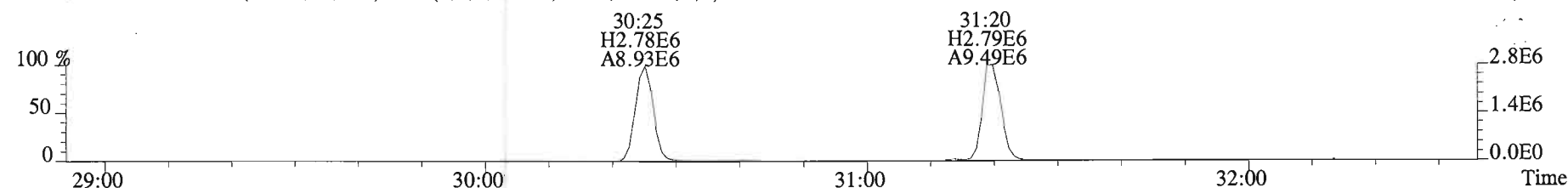
341.8568 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



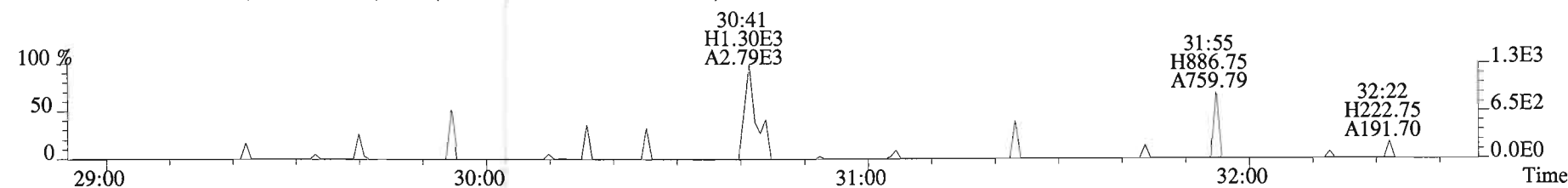
351.9000 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



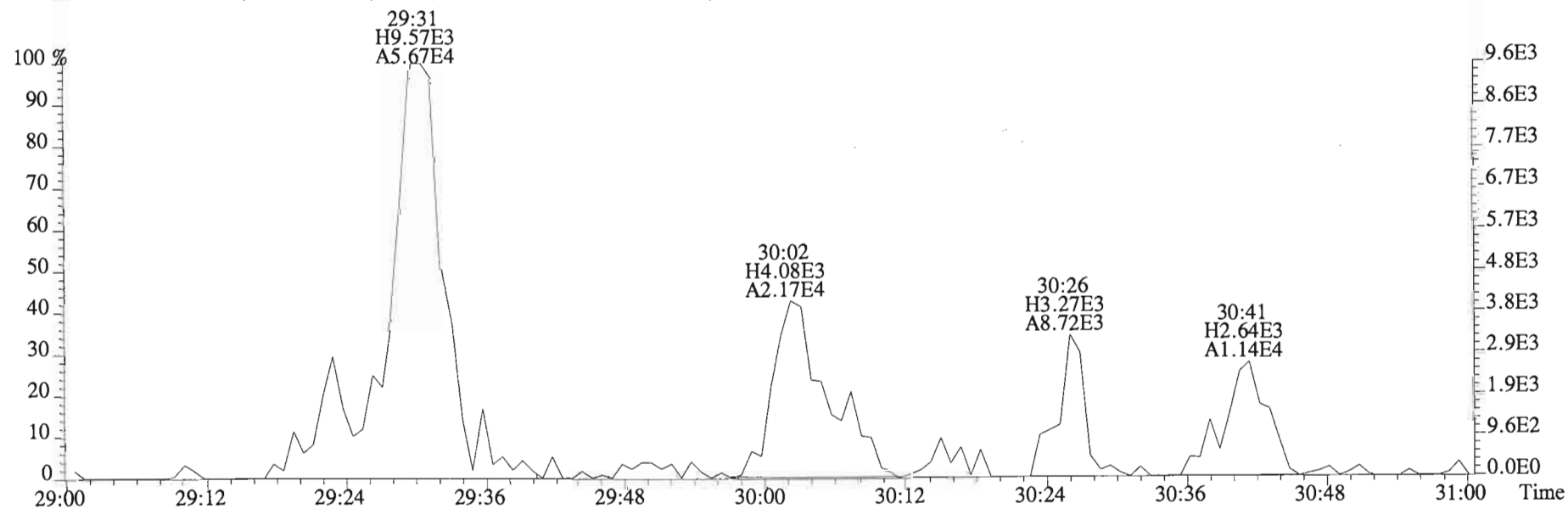
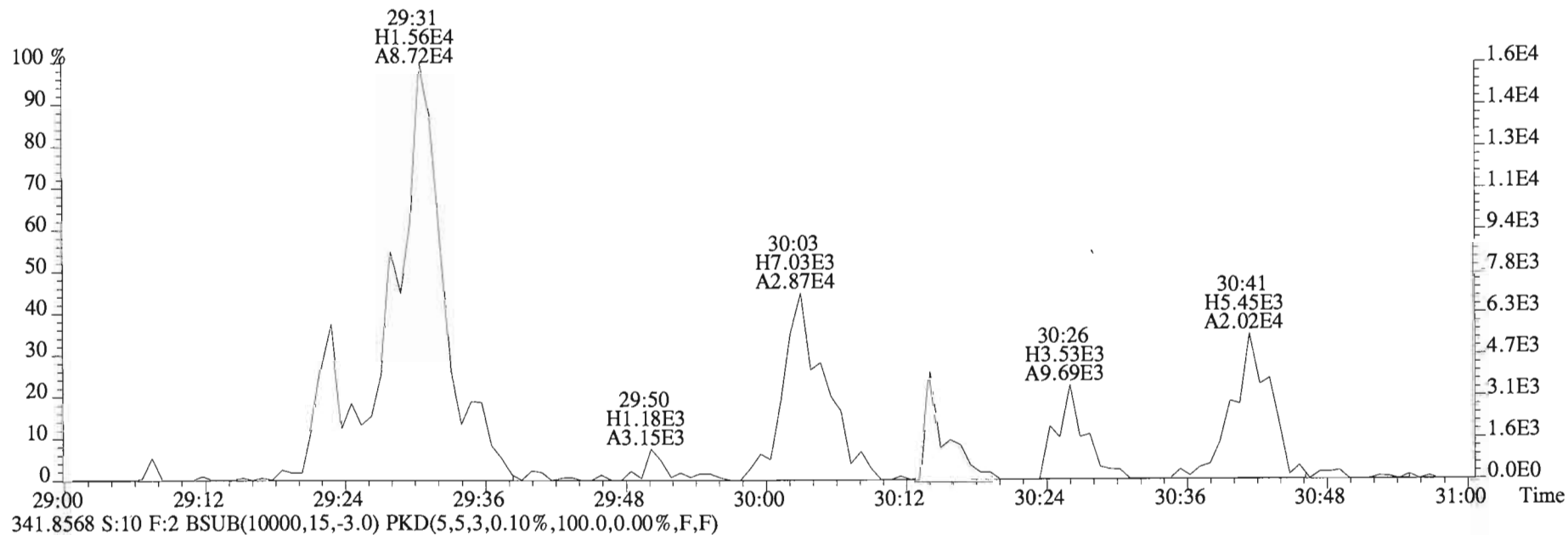
353.8970 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



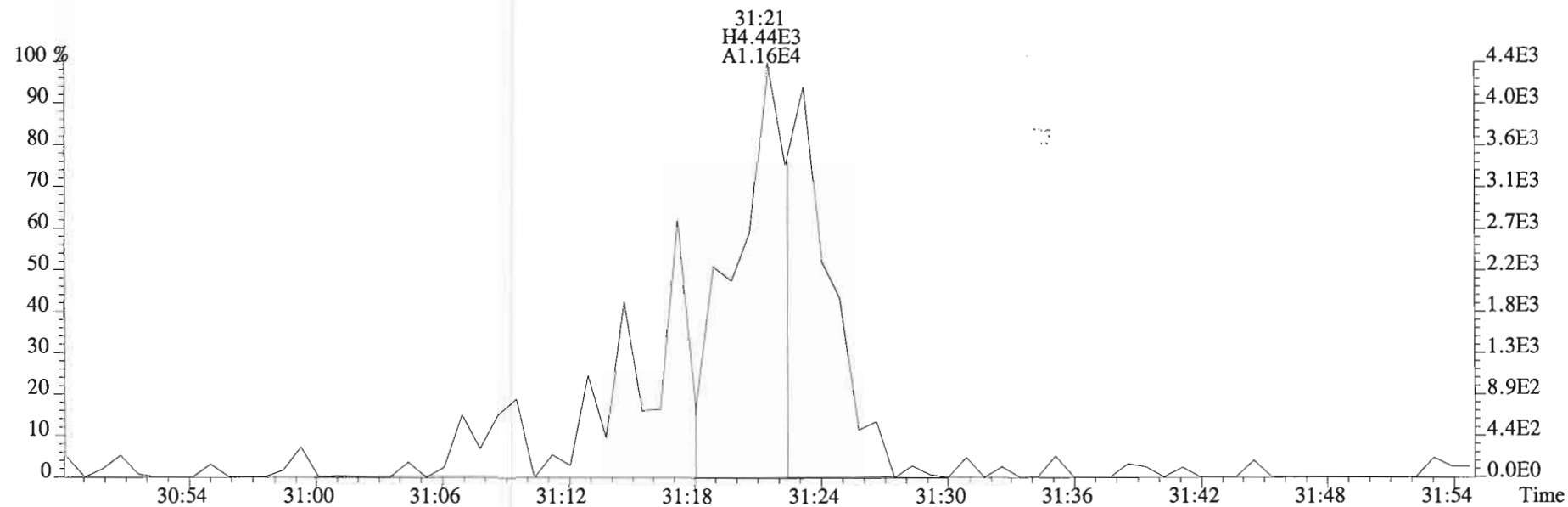
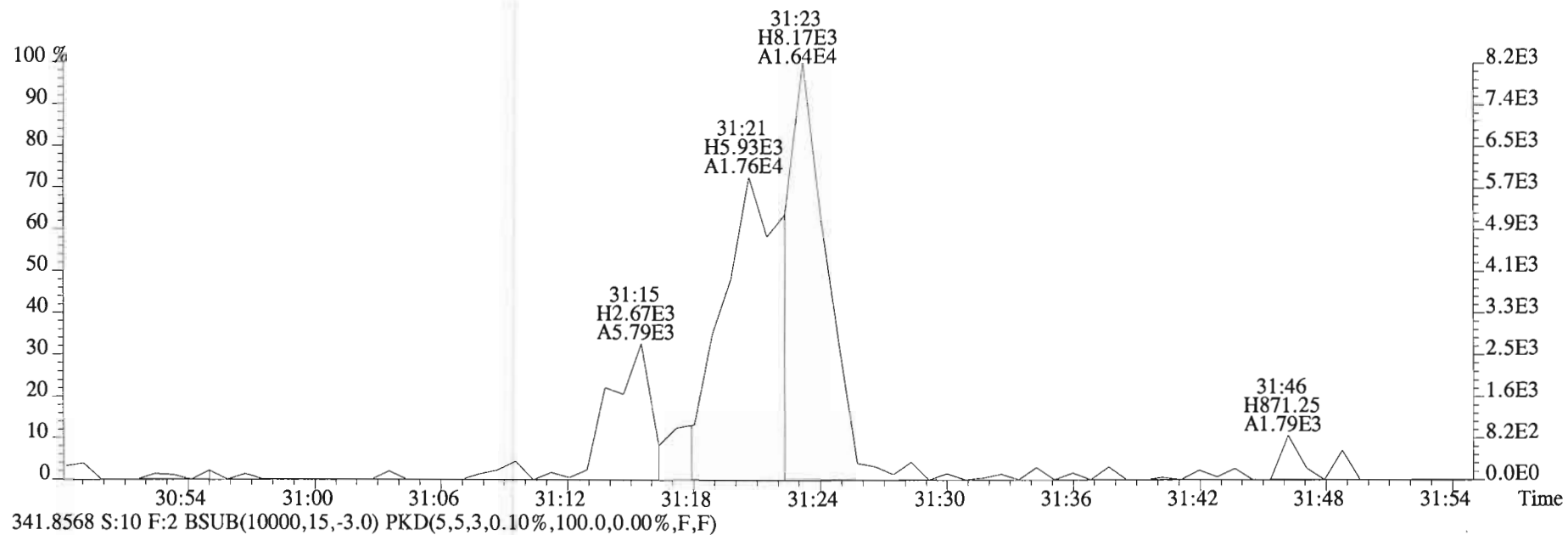
409.7974 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



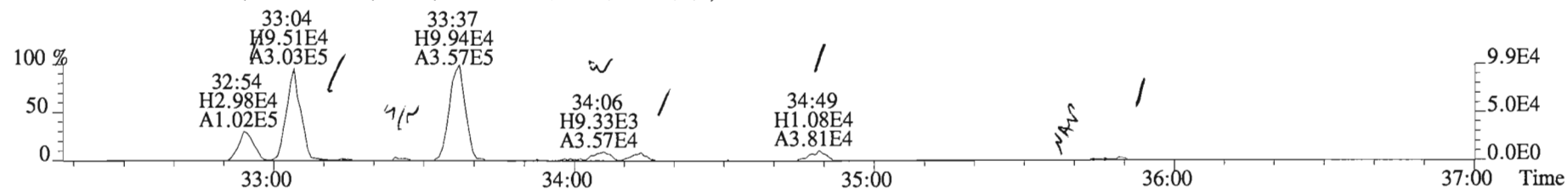
File:150226D1 #1-251 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
339.8597 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



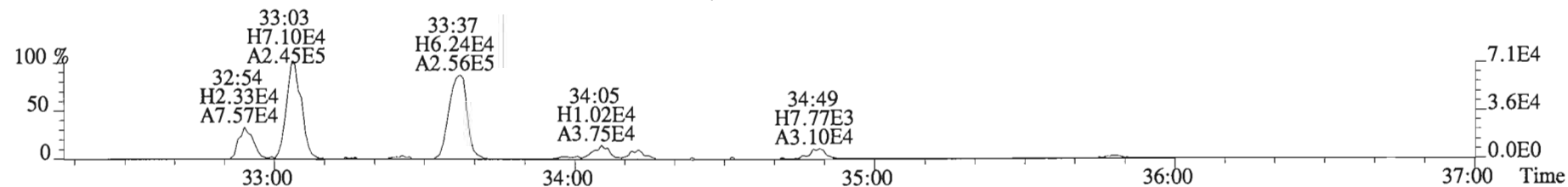
File:150226D1 #1-251 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
339.8597 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



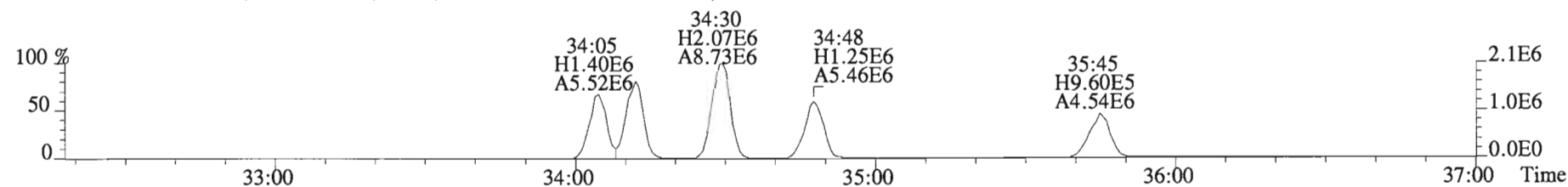
File:150226D1 #1-392 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text: Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
373.8207 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



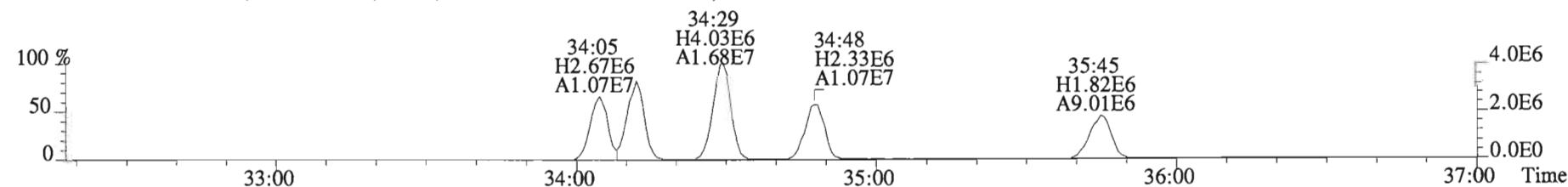
375.8178 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



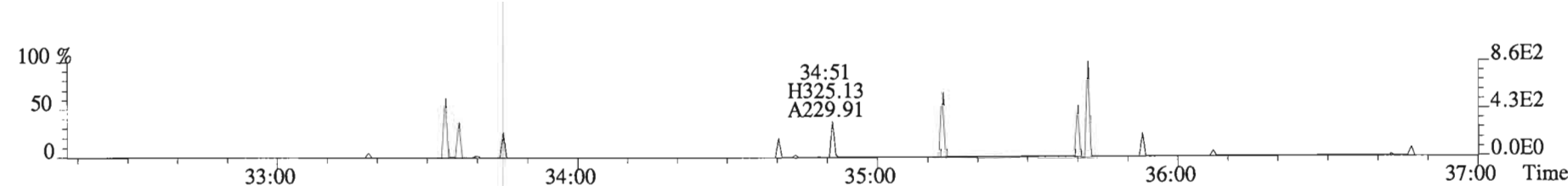
383.8639 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



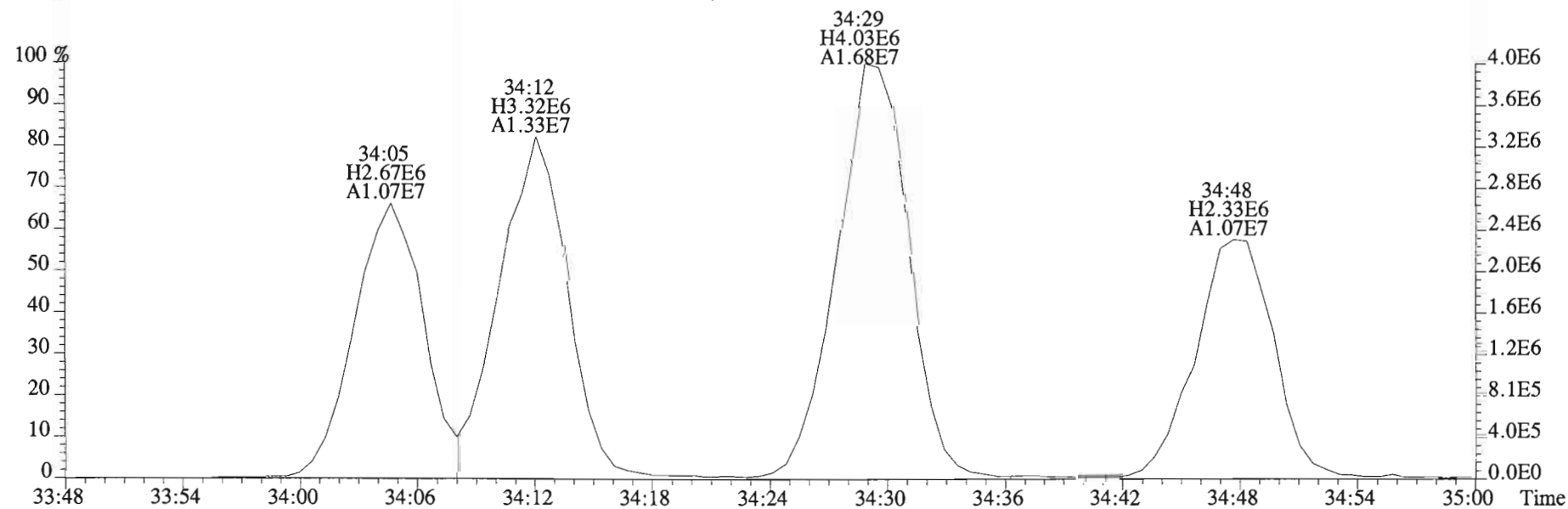
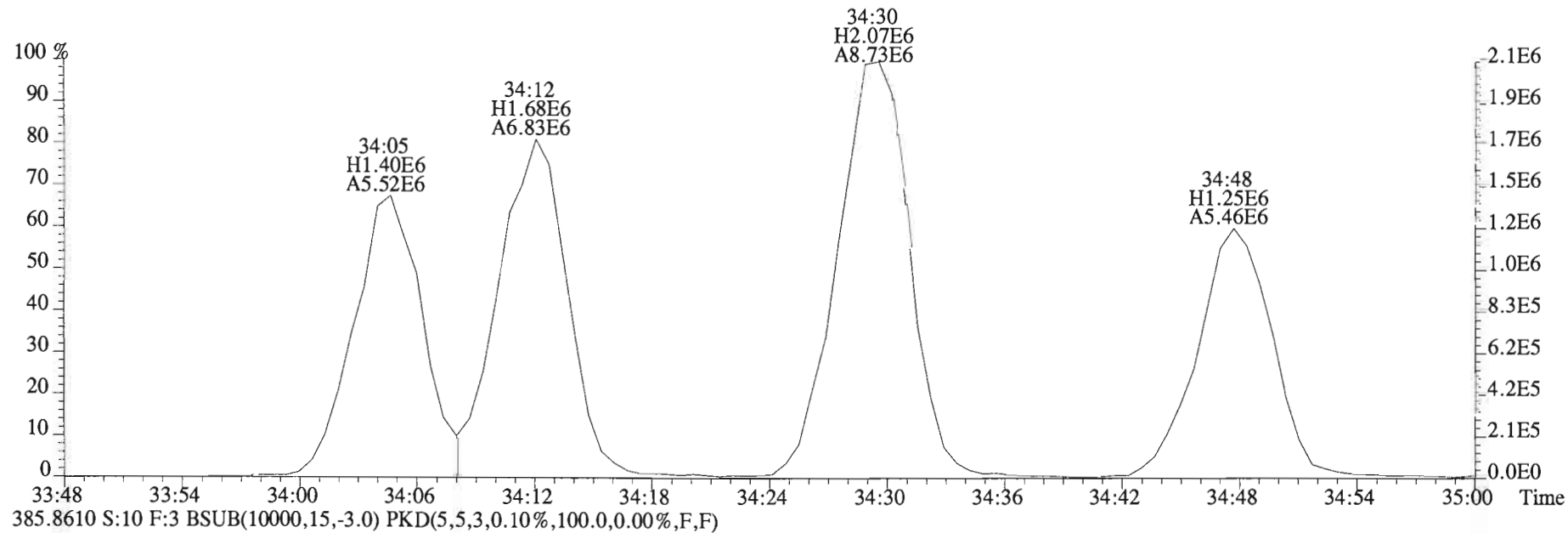
385.8610 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



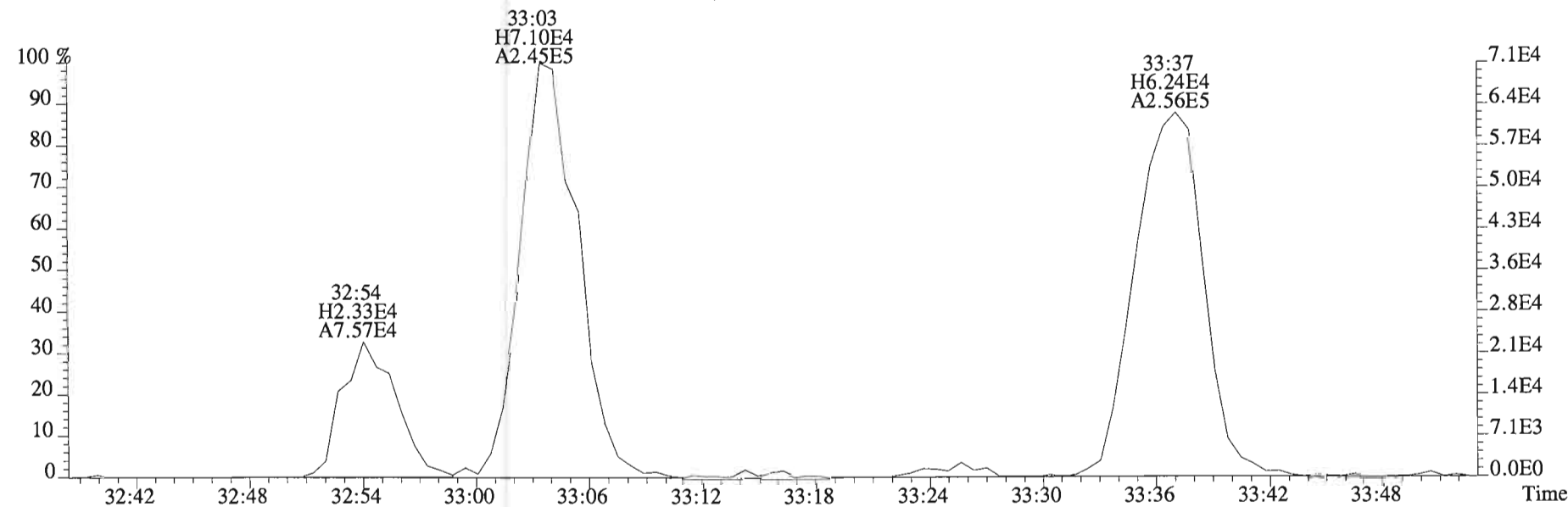
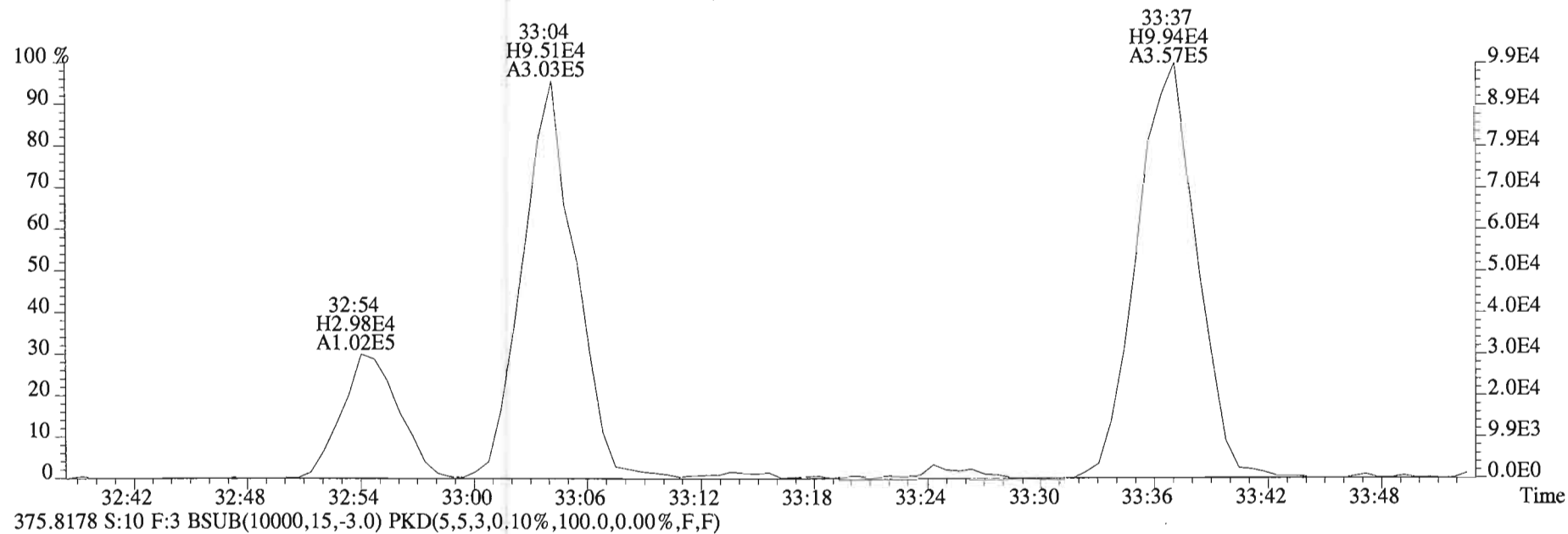
445.7555 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



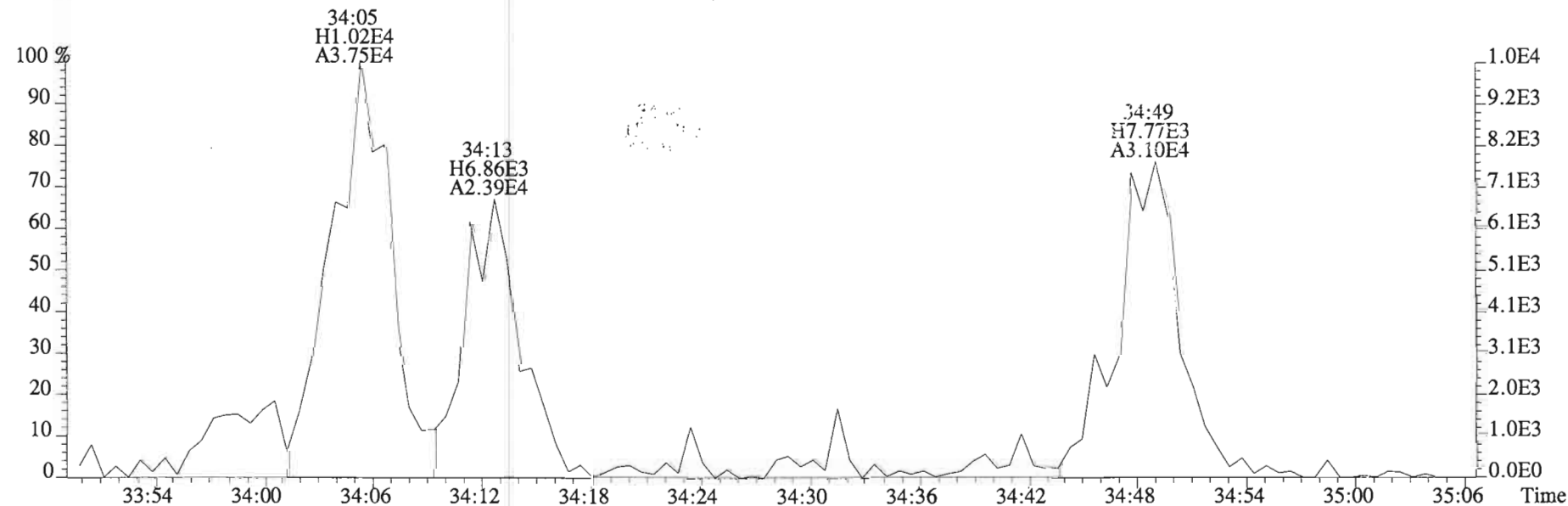
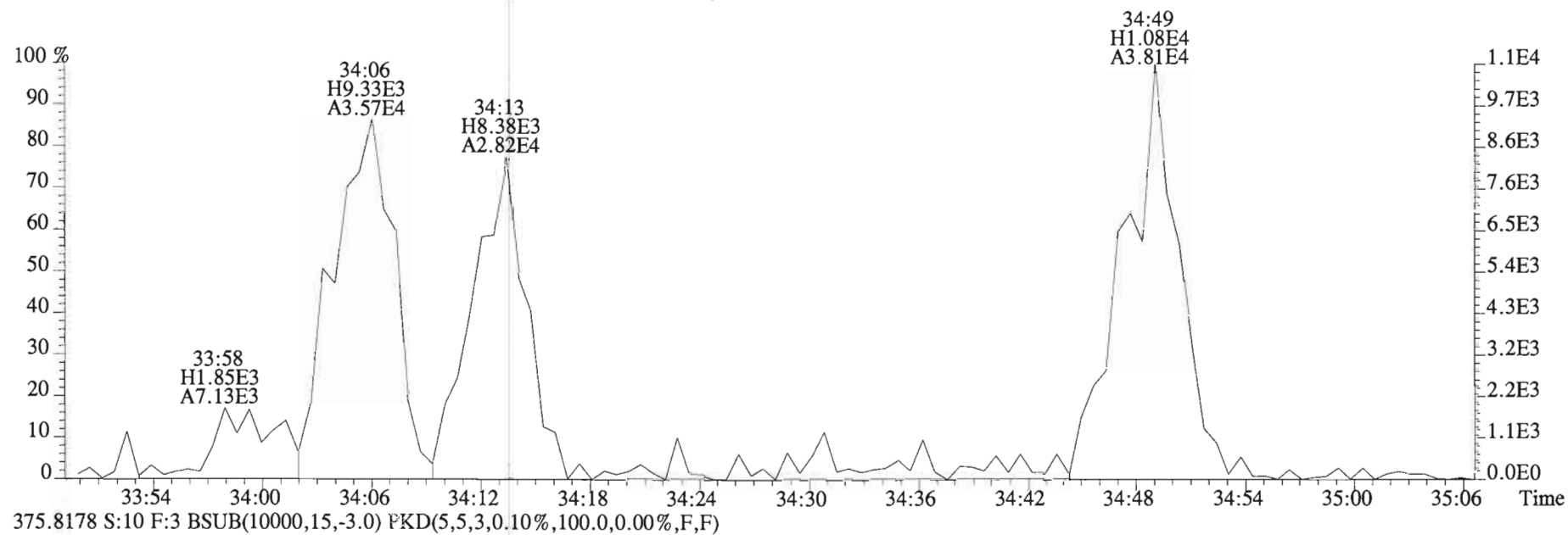
File:150226D1 #1-392 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
383.8639 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



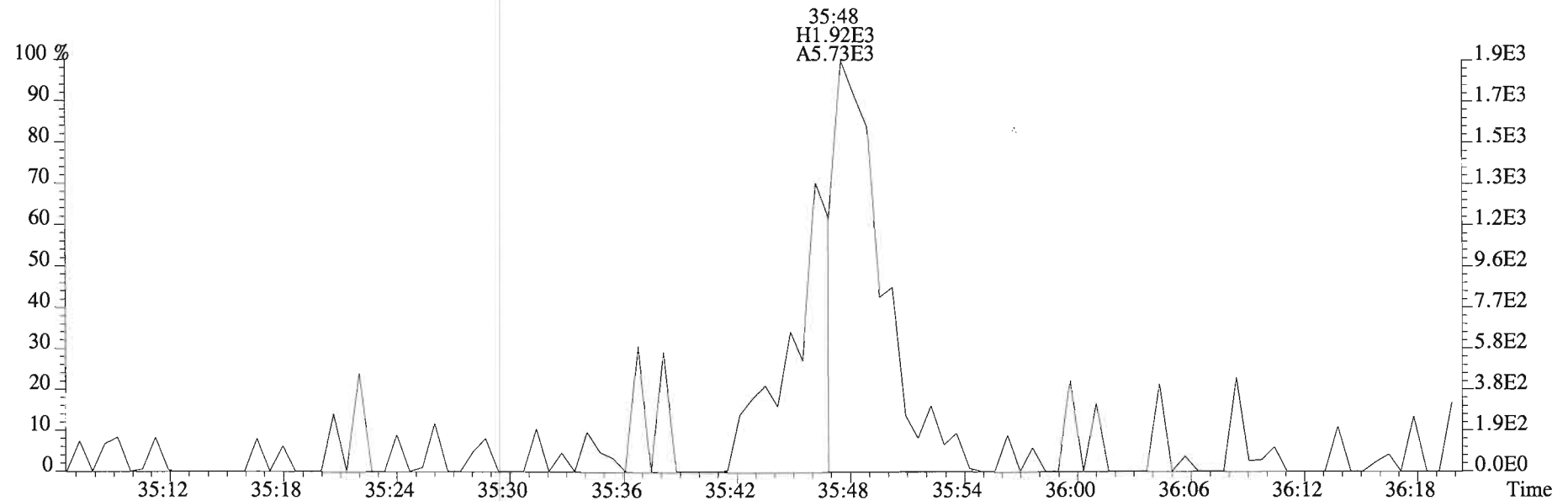
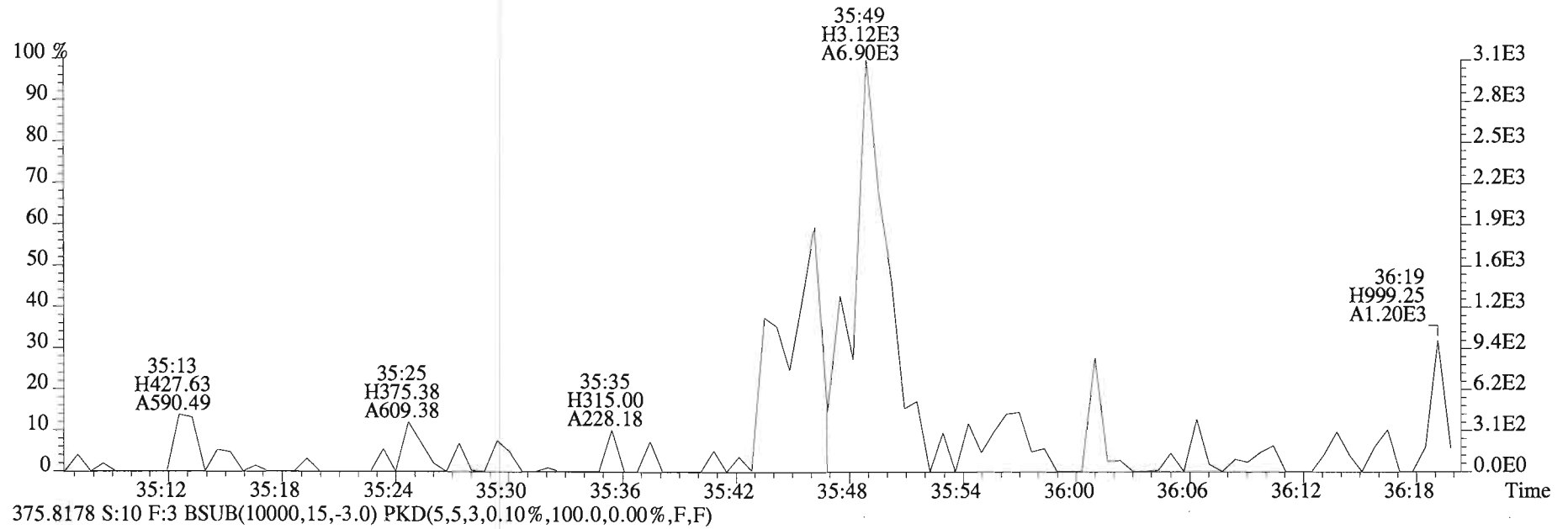
File:150226D1 #1-392 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text: Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
373.8207 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



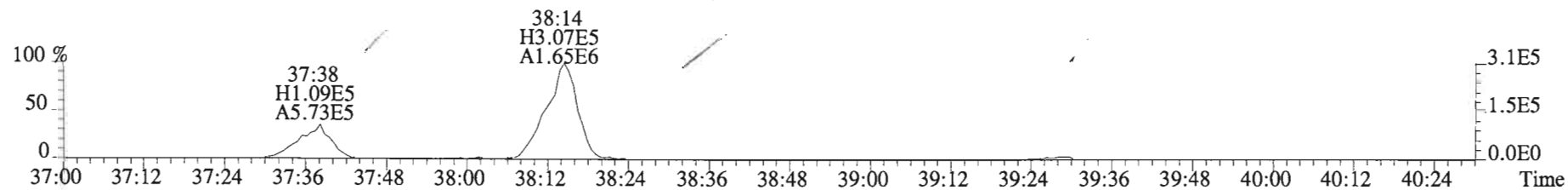
File:150226D1 #1-392 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
373.8207 S:10 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



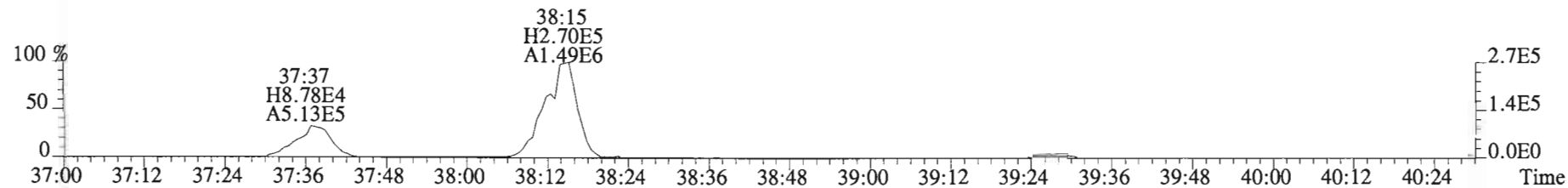
File:150226D1 #1-392 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
373.8207 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



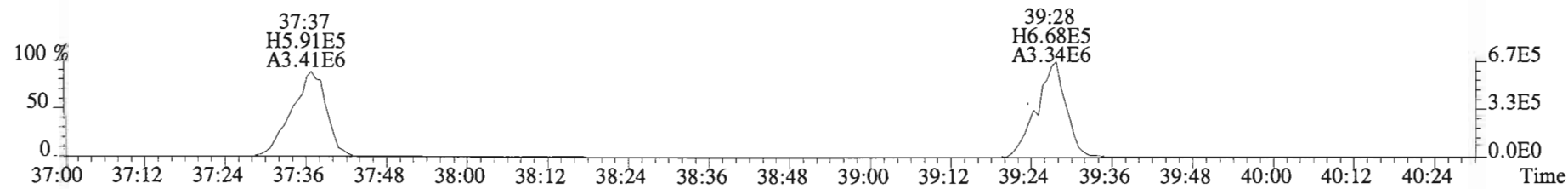
File:150226D1 #1-326 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
407.7818 S:10 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



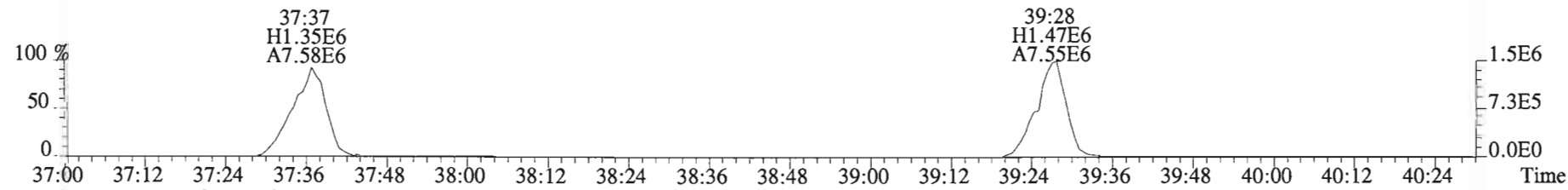
409.7788 S:10 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



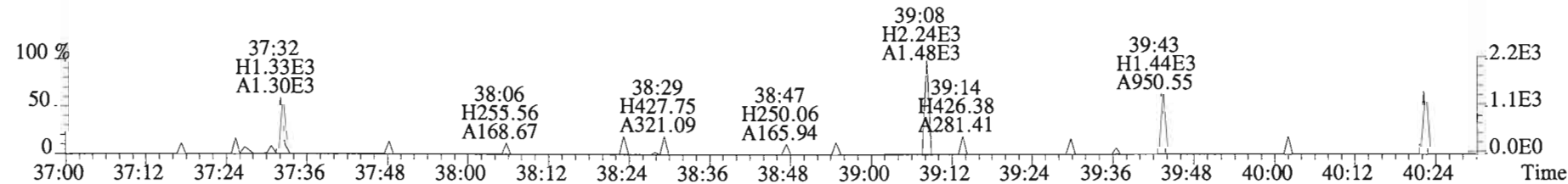
417.8253 S:10 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



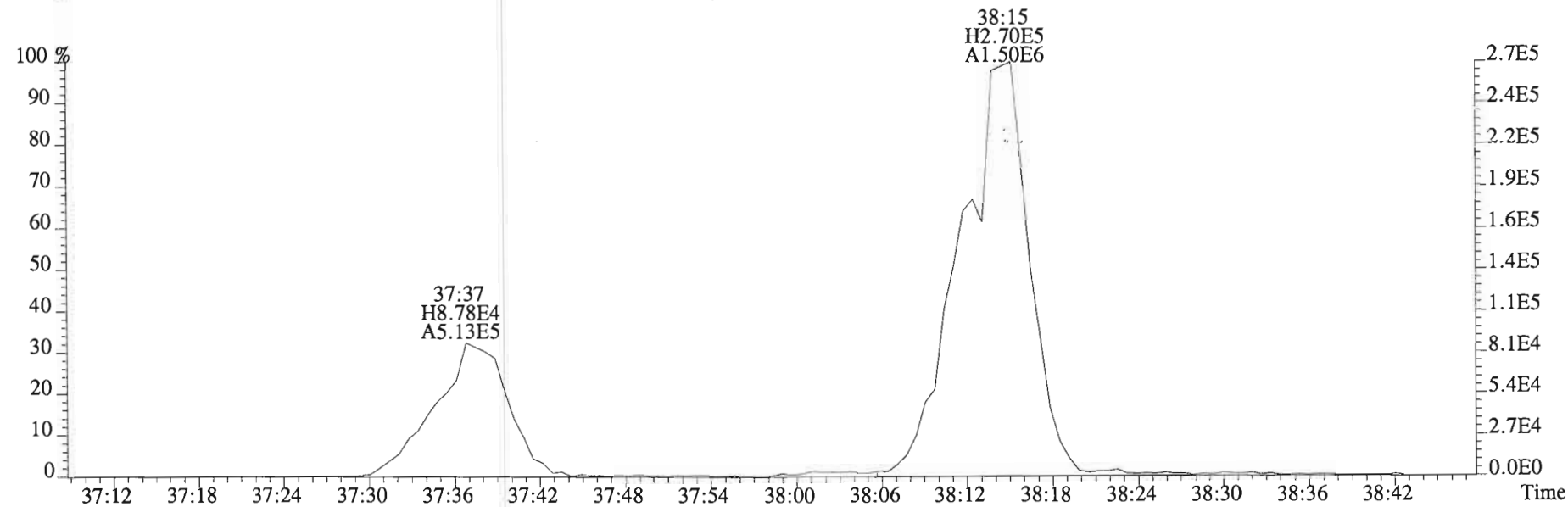
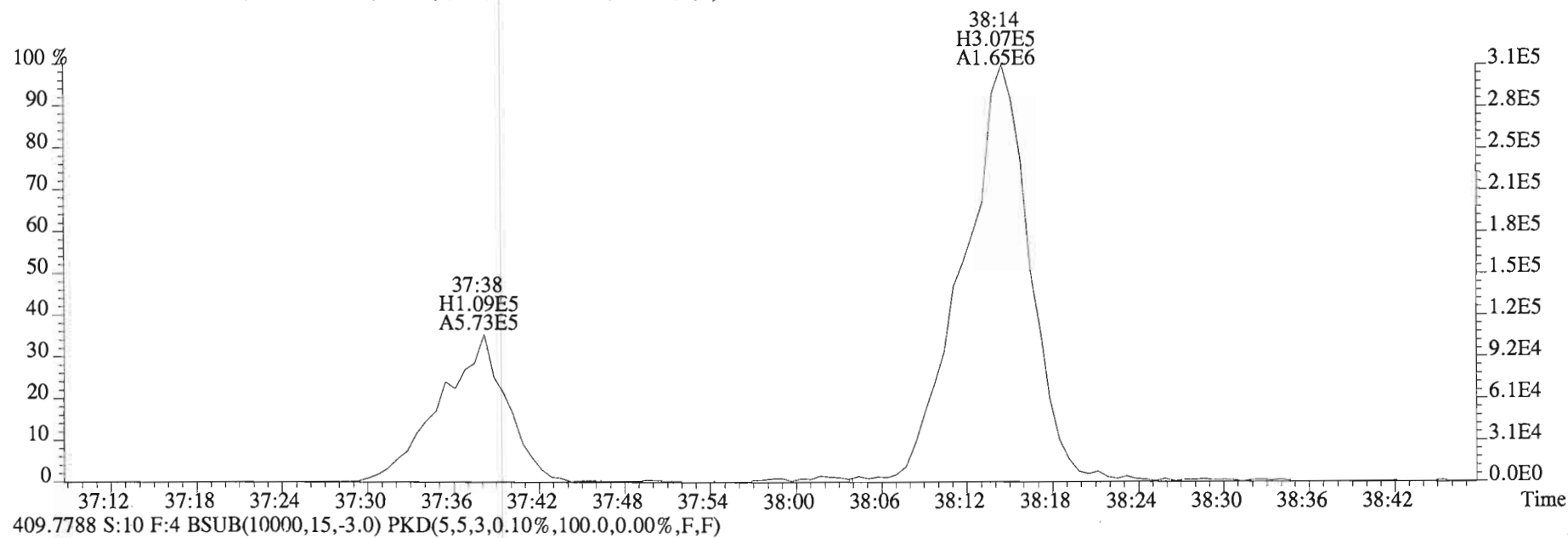
419.8220 S:10 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



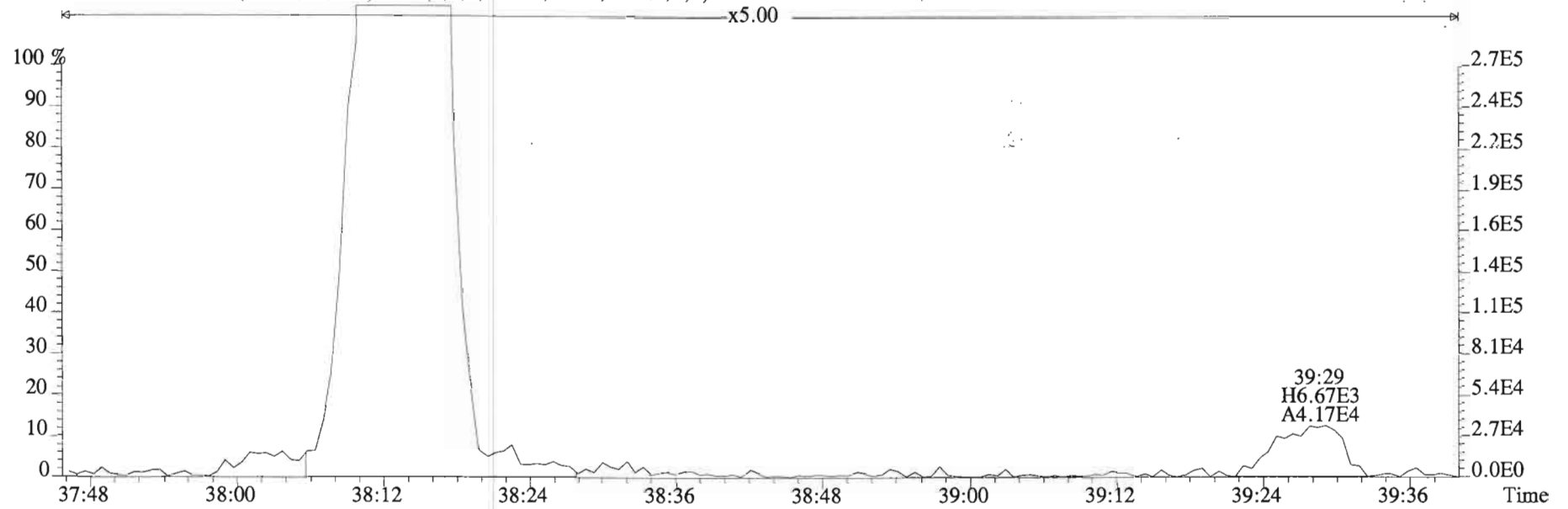
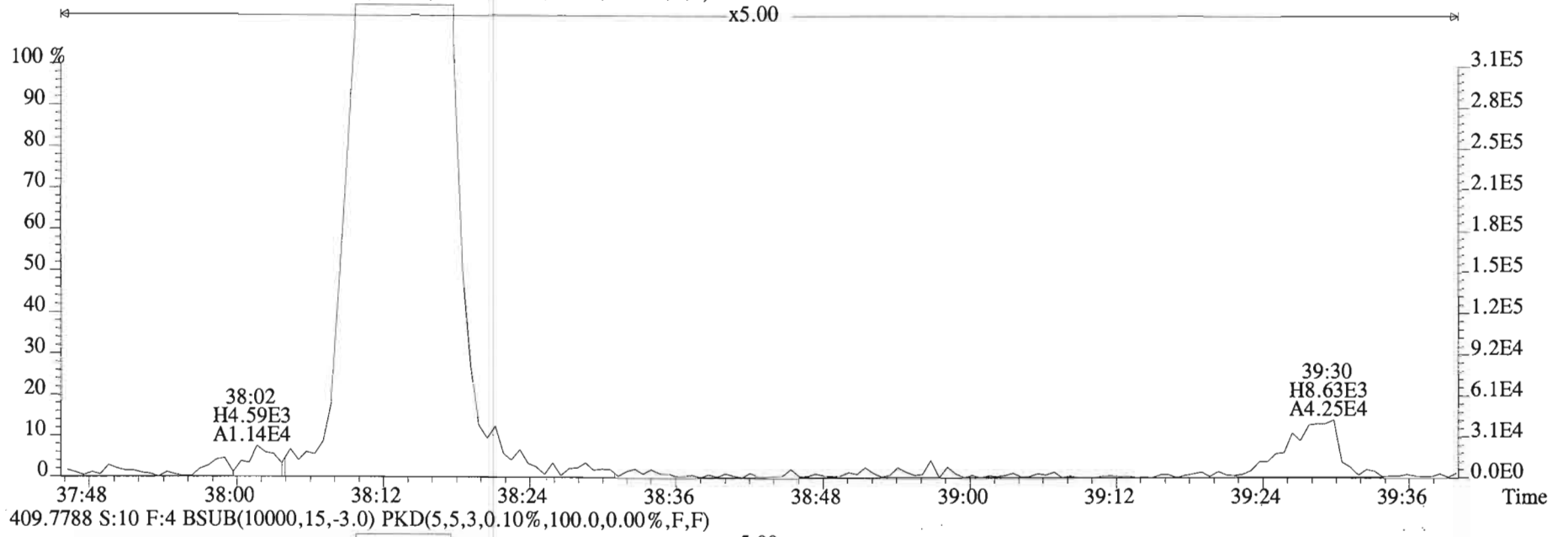
479.7165 S:10 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



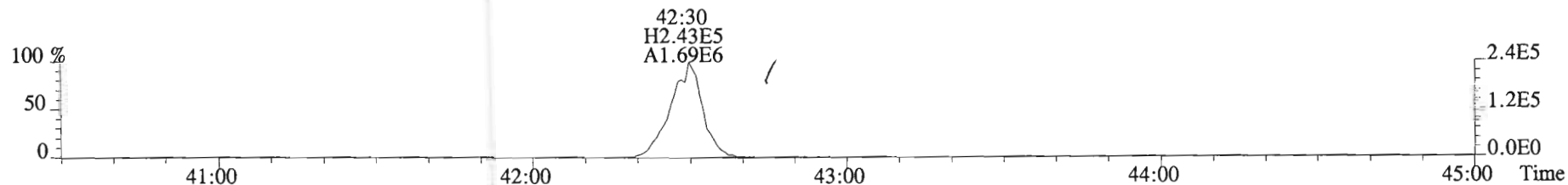
File:150226D1 #1-326 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
407.7818 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



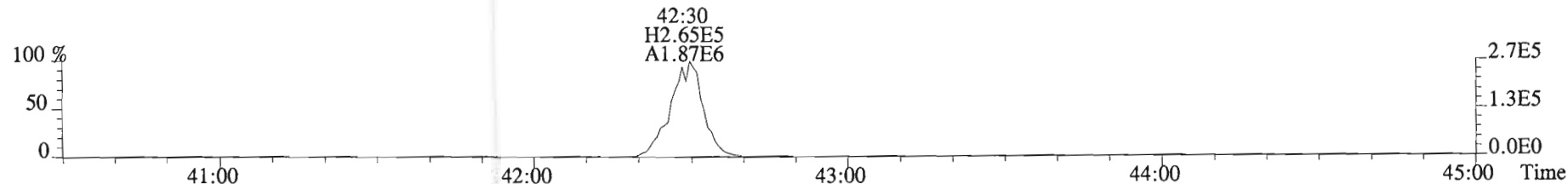
File:150226D1 #1-326 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
407.7818 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



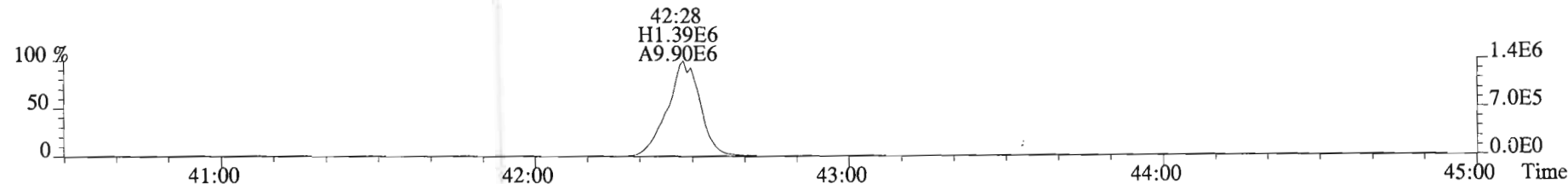
File:150226D1 #1-389 Acq:26-FEB-2015 16:59:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-7 Text:1500166-03 ST-OF-01-20150210-W 1 Exp:OCDD_DB5
441.7428 S:10 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



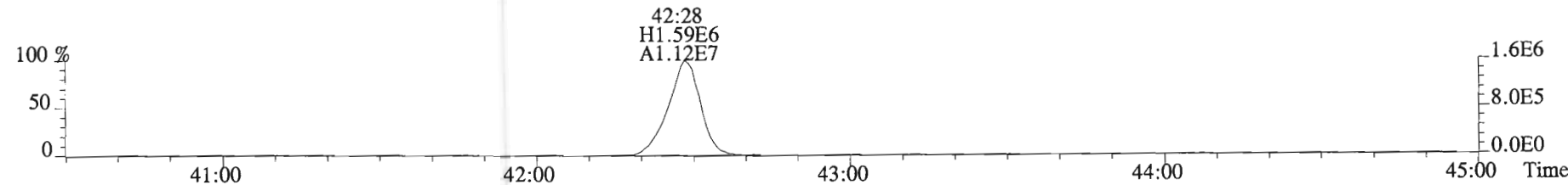
443.7398 S:10 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



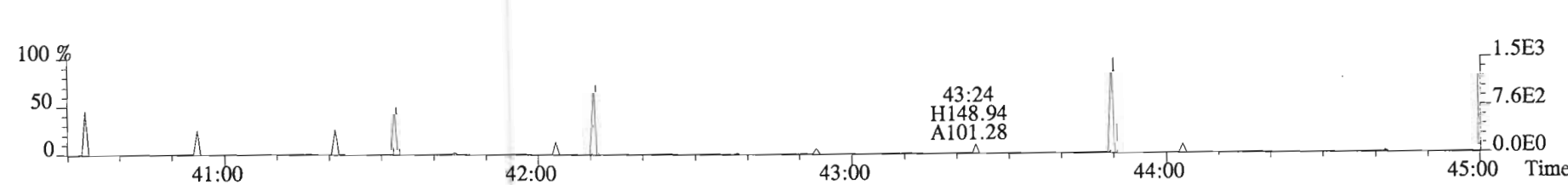
453.7831 S:10 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:10 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:10 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Client ID: Method Blank
Lab ID: B5B0068-BLK1

Filename: 150219D1 S:8 Acq:19-FEB-15 17:39:00
GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol:10.000

ConCal: ST150219D1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	*	* n	1.17	NotF η	*	*		838	2.5	0.0794	Total Tetra-Dioxins	*	*		838	0.0794
1,2,3,7,8-PeCDD	*	* n	0.91	NotF η	*	*		650	2.5	0.0645	Total Penta-Dioxins	*	*		1370	0.136
1,2,3,4,7,8-HxCDD	*	* n	1.08	NotF η	*	*		485	2.5	0.0937	Total Hexa-Dioxins	*	*		697	0.142
1,2,3,6,7,8-HxCDD	*	* n	1.06	NotF η	*	*		485	2.5	0.102	Total Hepta-Dioxins	1.26	1.26		*	*
1,2,3,7,8,9-HxCDD	*	* n	0.93	NotF η	*	*		485	2.5	0.102	Total Tetra-Furans	*	*		781	0.0621
1,2,3,4,6,7,8-HpCDD	8.50e+04	0.99 y	1.10	38:55	1.000	0.77362		*	2.5	*	Total Penta-Furans	0.0000	0.0000		1040	0.109
OCDD	3.01e+05	0.94 y	0.95	42:15	1.000	3.5452		*	2.5	*	Total Hexa-Furans	*	*		915	0.0744
											Total Hepta-Furans	0.125	0.515		*	*
2,3,7,8-TCDF	*	* n	1.07	NotF η	*	*		781	2.5	0.0621						
1,2,3,7,8-PeCDF	*	* n	1.07	NotF η	*	*		725	2.5	0.0771						
2,3,4,7,8-PeCDF	*	* n	1.03	NotF η	*	*		725	2.5	0.0747						
1,2,3,4,7,8-HxCDF	*	* n	1.38	NotF η	*	*		738	2.5	0.0543						
1,2,3,6,7,8-HxCDF	*	* n	1.26	NotF η	*	*		738	2.5	0.0514						
2,3,4,6,7,8-HxCDF	*	* n	1.29	NotF η	*	*		738	2.5	0.0577						
1,2,3,7,8,9-HxCDF	*	* n	1.19	NotF η	*	*		1430	1.0	0.0637						
1,2,3,4,6,7,8-HpCDF	2.14e+04	1.05 y	1.61	37:37	1.000	0.12459		*	2.5	*						
1,2,3,4,7,8,9-HpCDF	*	* n	1.53	NotF η	*	*		1220	2.5	0.128						
OCDF	1.05e+05	1.02 y	1.10	42:29	1.000	0.93544		*	2.5	*						
IS	13C-2,3,7,8-TCDD	2.97e+07	0.80 y	1.06	27:01	1.022	195.76				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	2.76e+07	0.61 y	1.18	31:38	1.197	163.73				97.9					
IS	13C-1,2,3,4,7,8-HxCDD	2.13e+07	1.26 y	0.72	34:59	1.014	181.56				81.9					
IS	13C-1,2,3,6,7,8-HxCDD	1.98e+07	1.26 y	0.74	35:05	1.017	165.02				90.8					
IS	13C-1,2,3,7,8,9-HxCDD	2.44e+07	1.27 y	0.85	35:23	1.026	175.61				82.5					
IS	13C-1,2,3,4,6,7,8-HpCDD	1.99e+07	1.06 y	0.65	38:54	1.128	186.88				87.8					
IS	13C-OCDD	3.58e+07	0.88 y	0.76	42:15	1.225	287.37				93.4					
IS	13C-2,3,7,8-TCDF	4.15e+07	0.77 y	0.92	26:12	0.991	192.64				71.8					
IS	13C-1,2,3,7,8-PeCDF	3.75e+07	1.56 y	0.92	30:26	1.151	173.59				96.3					
IS	13C-2,3,4,7,8-PeCDF	3.81e+07	1.59 y	0.93	31:21	1.186	174.34				86.8					
IS	13C-1,2,3,4,7,8-HxCDF	2.67e+07	0.51 y	0.98	34:05	0.988	167.13				87.2					
IS	13C-1,2,3,6,7,8-HxCDF	3.31e+07	0.52 y	1.08	34:12	0.992	187.78				83.6					
IS	13C-2,3,4,6,7,8-HxCDF	2.93e+07	0.52 y	1.03	34:48	1.009	175.29				93.9					
IS	13C-1,2,3,7,8,9-HxCDF	2.54e+07	0.52 y	0.86	35:45	1.036	181.28				87.6					
IS	13C-1,2,3,4,6,7,8-HpCDF	2.13e+07	0.44 y	0.72	37:37	1.090	181.09				90.6					
IS	13C-1,2,3,4,7,8,9-HpCDF	1.99e+07	0.45 y	0.70	39:27	1.143	174.88				90.5					
IS	13C-OCDF	4.09e+07	0.90 y	0.85	42:28	1.231	295.27				87.4					
C/Up	37C1-2,3,7,8-TCDD	1.39e+07		1.12	27:01	1.022	87.063				109					
RS/RT	13C-1,2,3,4-TCDD	2.87e+07	0.81 y	1.00	26:26	*	200.00					Integrations	Reviewed			
RS	13C-1,2,3,4-TCDF	4.69e+07	0.78 y	1.00	24:56	*	200.00				by	by				
RS/RT	13C-1,2,3,4,6,9-HxCDF	3.26e+07	0.52 y	1.00	34:30	*	200.00				Analyst: <u>ms</u>	Analyst: <u>[Signature]</u>				
											Date: <u>2/20/15</u>	Date: <u>2/26/15</u>				

Totals class: HpCDD EMPC

Entry #: 25

Run: 11 File: 150219D1 S: 8 I: 1 F: 4
Acquired: 19-FEB-15 17:39:00 Processed: 20-FEB-15 08:37:58

Total Concentration: 1.2628 Unnamed Concentration: 0.489

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
38:01	2.742e+04	2.634e+04	1.04 y		5.376e+04	0.48914
38:55	4.229e+04	4.274e+04	0.99 y		8.503e+04	0.77362 1,2,3,4,6,7,8-HpCDD

Totals class: HpCDF EMPC

Entry #: 35

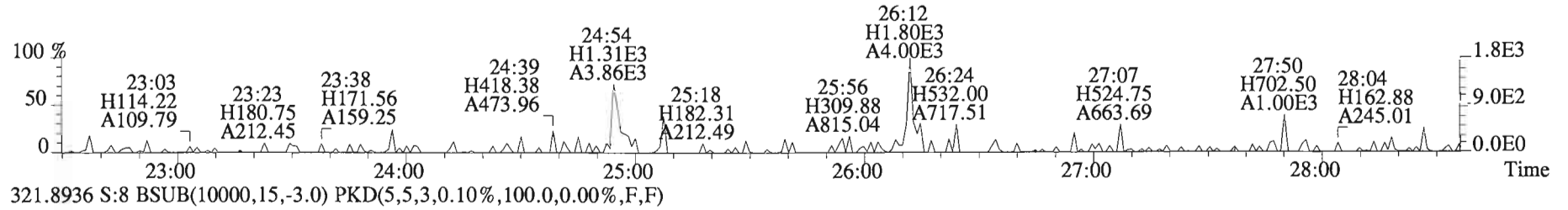
Run: 11 File: 150219D1 S: 8 I: 1 F: 4
Acquired: 19-FEB-15 17:39:00 Processed: 20-FEB-15 08:37:58

Total Concentration: 0.51544

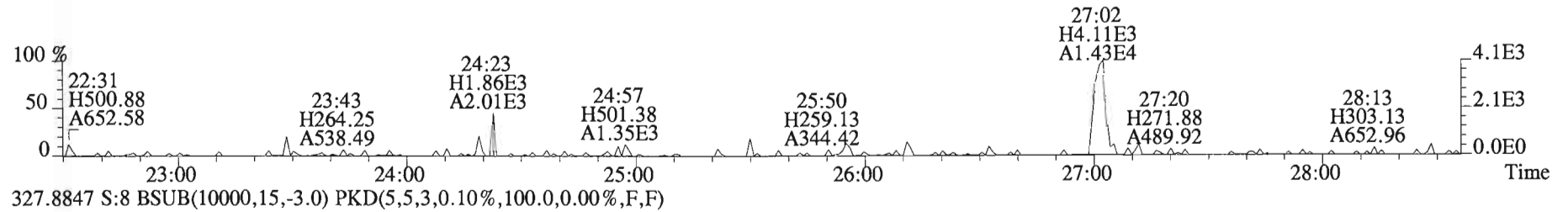
Unnamed Concentration: 0.391

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Resp Concentration	Name
37:37	1.093e+04	1.045e+04	1.05 y	2.138e+04	0.12459	1,2,3,4,6,7,8-HpCDF
38:14	3.785e+04	3.094e+04	1.22 n	6.311e+04	0.39085	

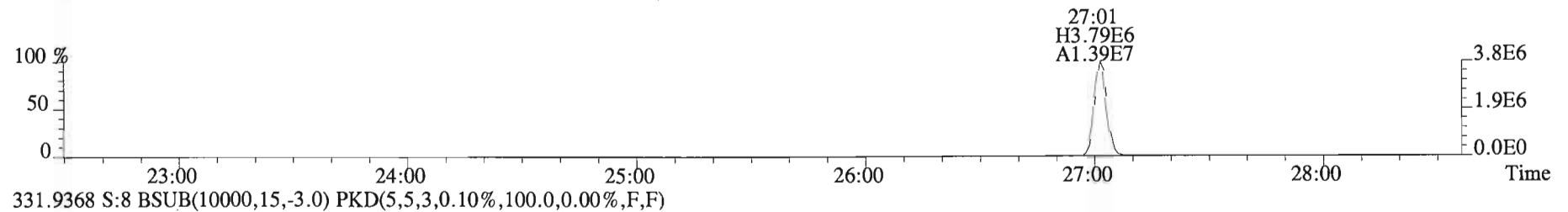
File:150219D1 #1-552 Acq:19-FEB-2015 17:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BLK1 Method Blank 10 Exp:OCDD_DB5
319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



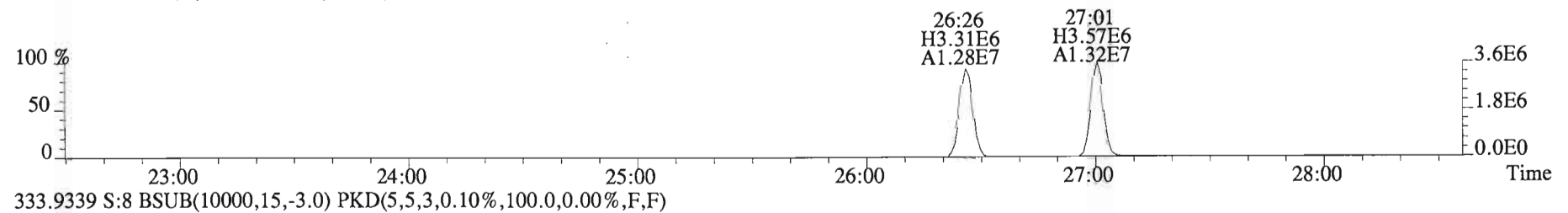
321.8936 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



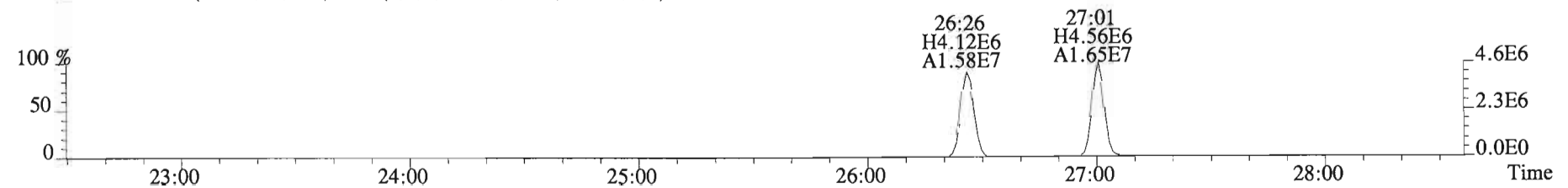
327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



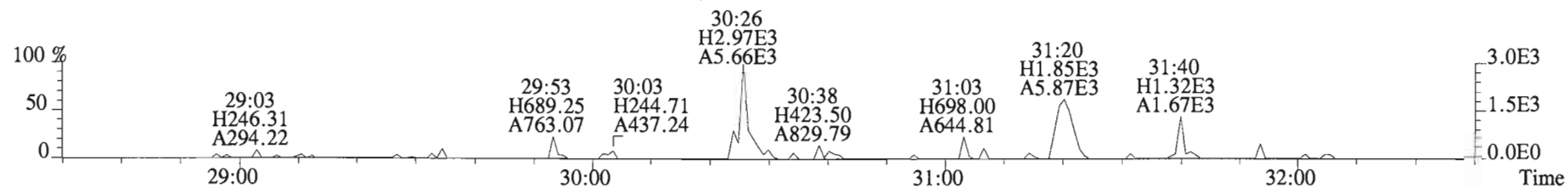
331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



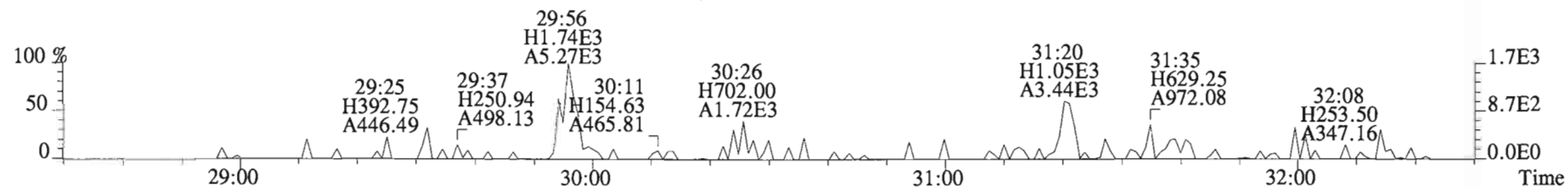
333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



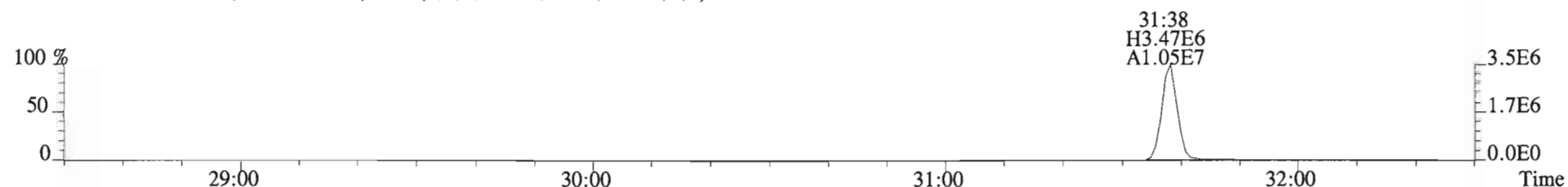
File:150219D1 #1-250 Acq:19-FEB-2015 17:39:00 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BLK1 Method Blank 10 Exp:OCDD_DB5
 353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



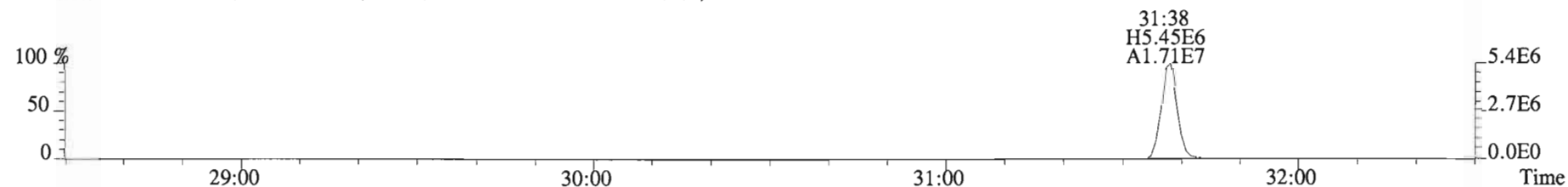
355.8546 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



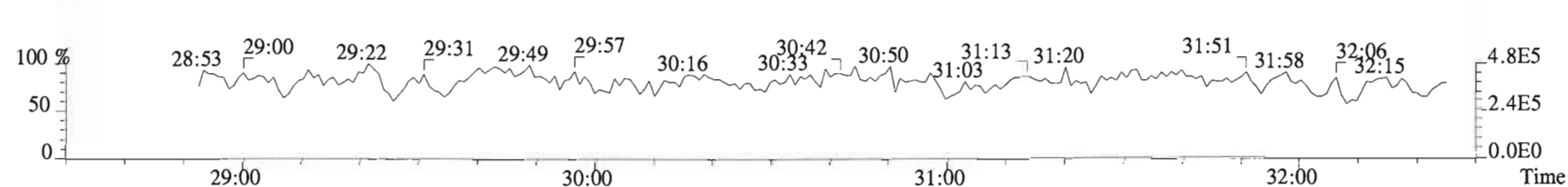
365.8978 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



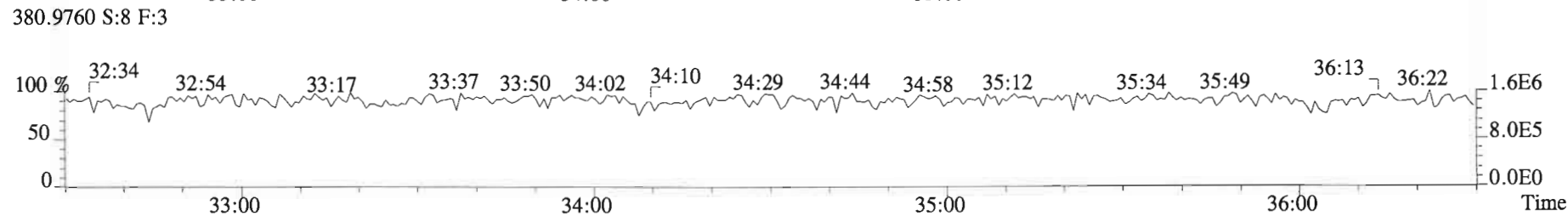
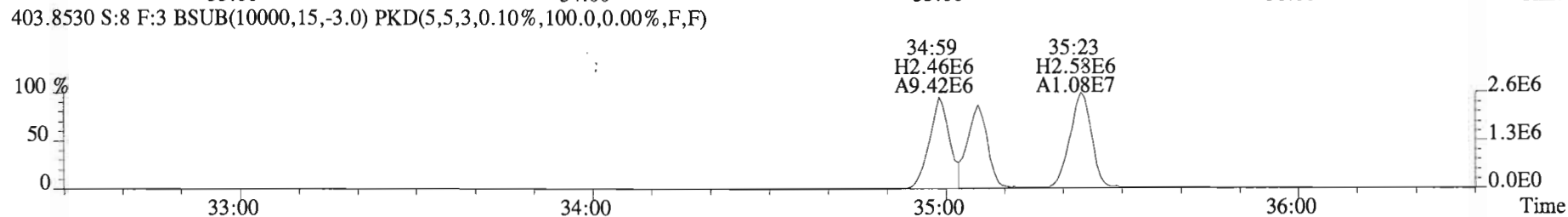
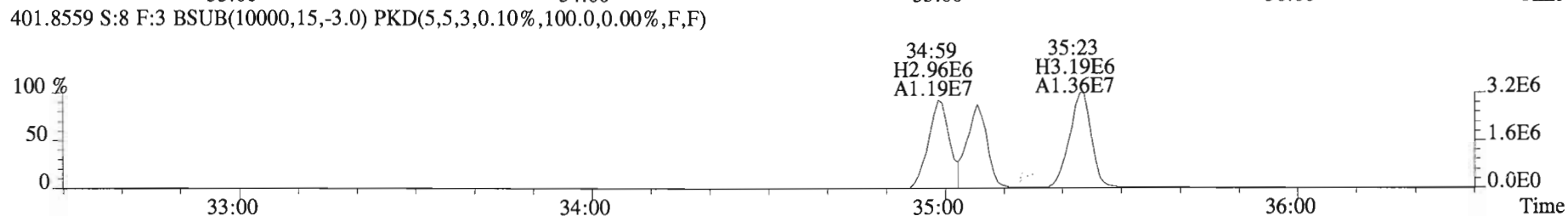
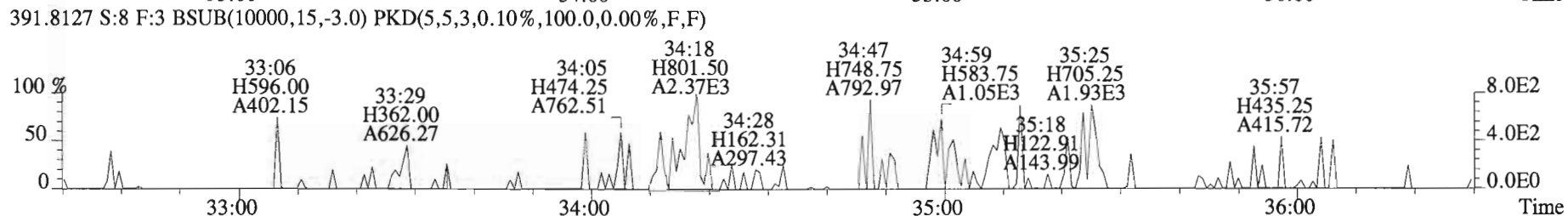
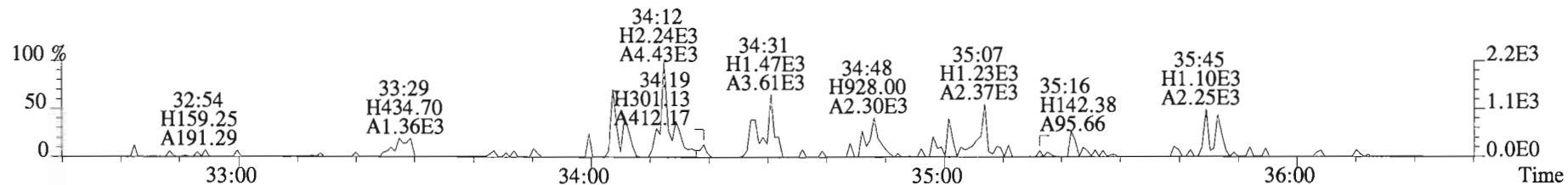
367.8949 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



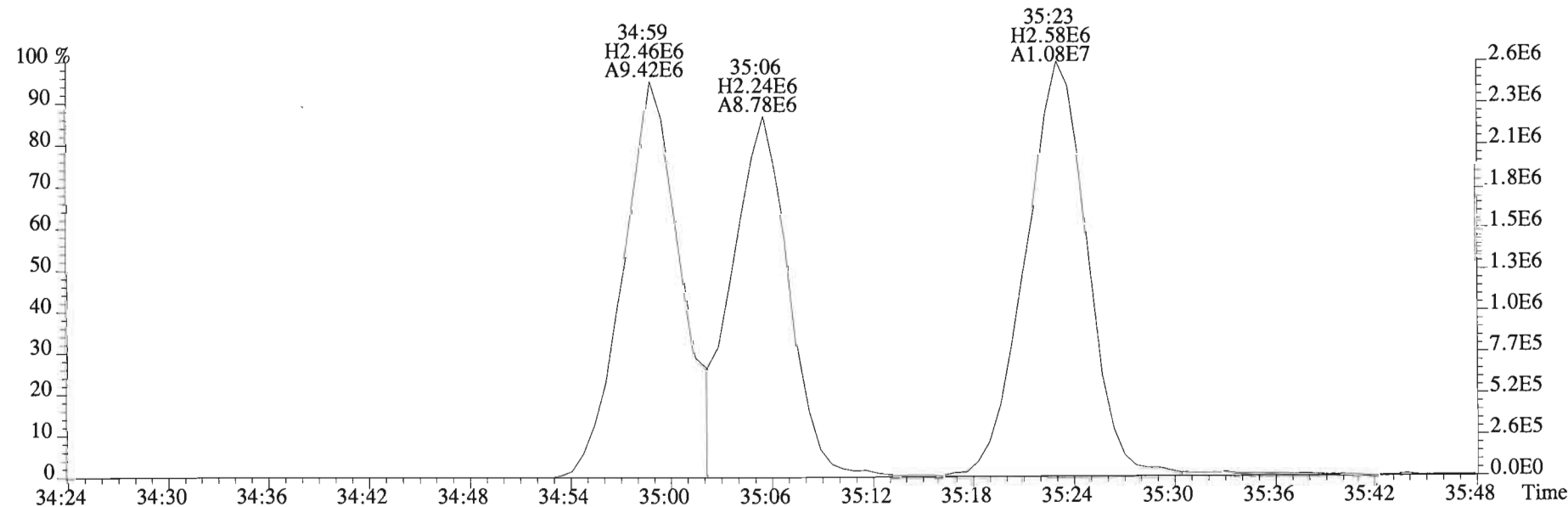
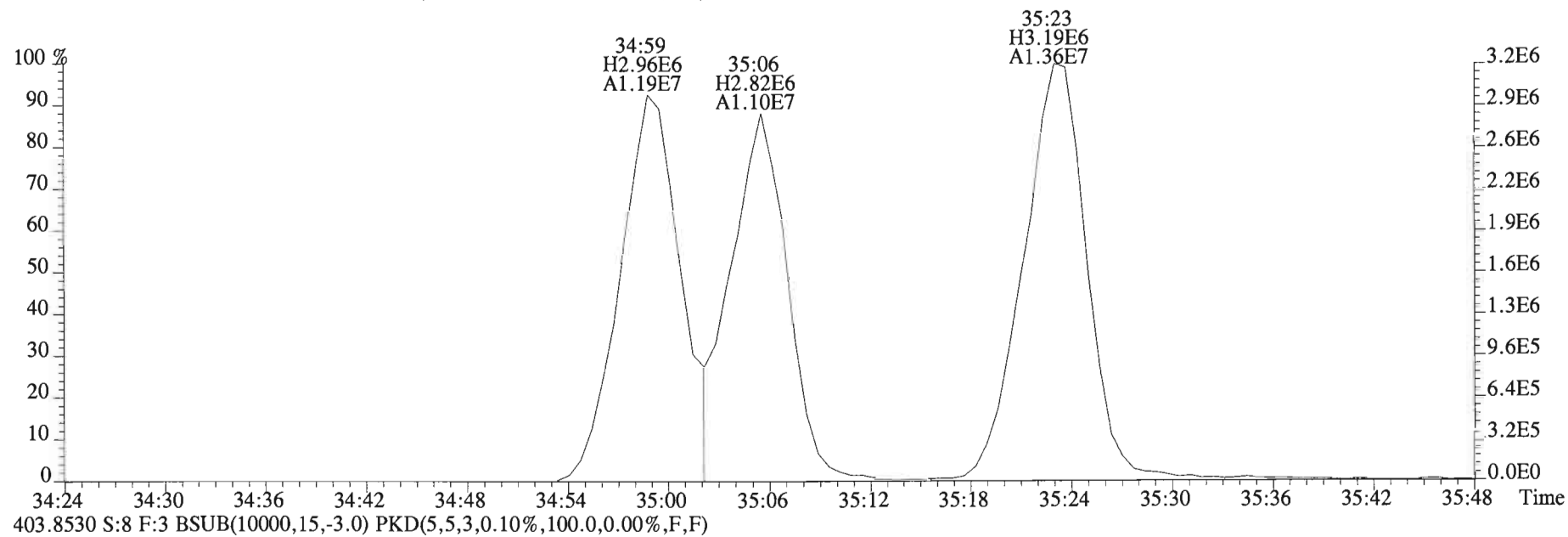
366.9792 S:8 F:2



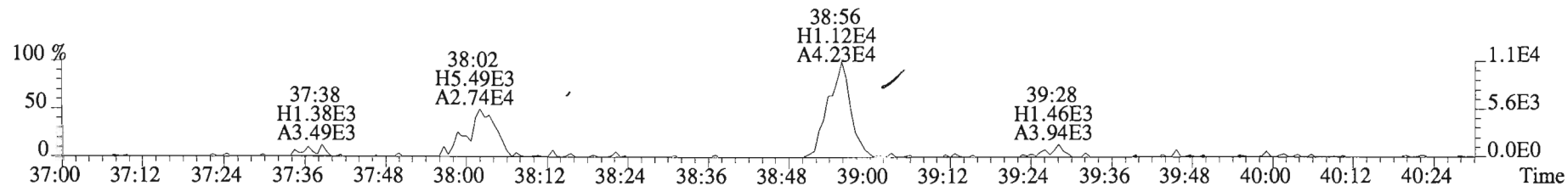
File:150219D1 #1-393 Acq:19-FEB-2015 17:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BLK1 Method Blank 10 Exp:OCDD_DB5
389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



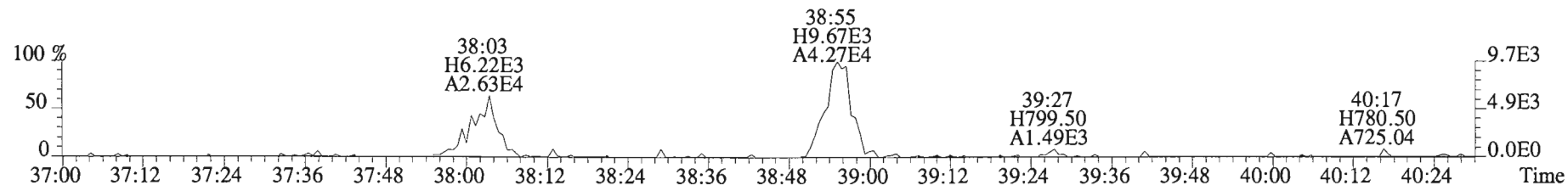
File:150219D1 #1-393 Acq:19-FEB-2015 17:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BLK1 Method Blank 10 Exp:OCDD_DB5
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



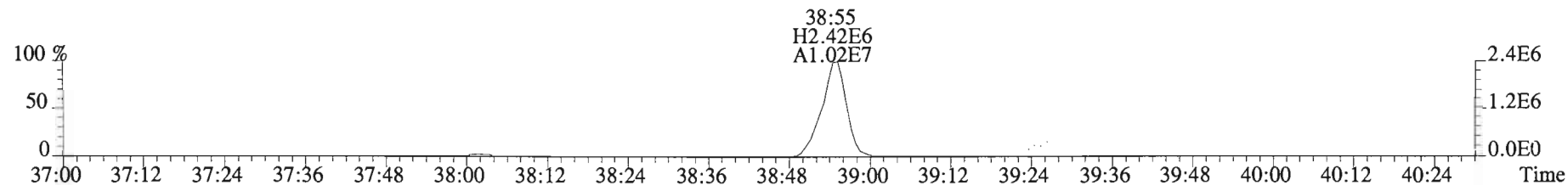
File:150219D1 #1-326 Acq:19-FEB-2015 17:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BLK1 Method Blank 10 Exp:OCDD_DB5
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



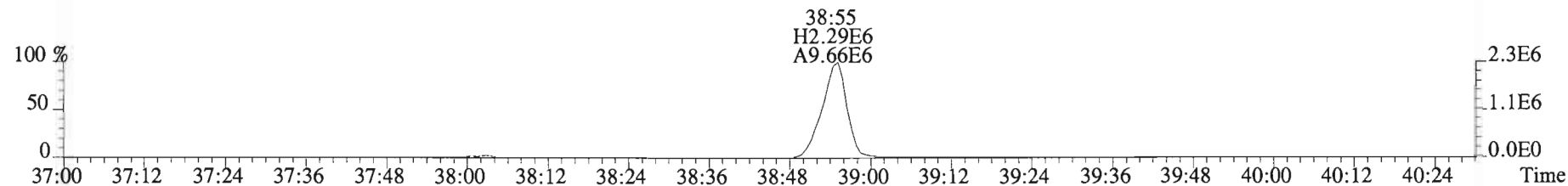
425.7737 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



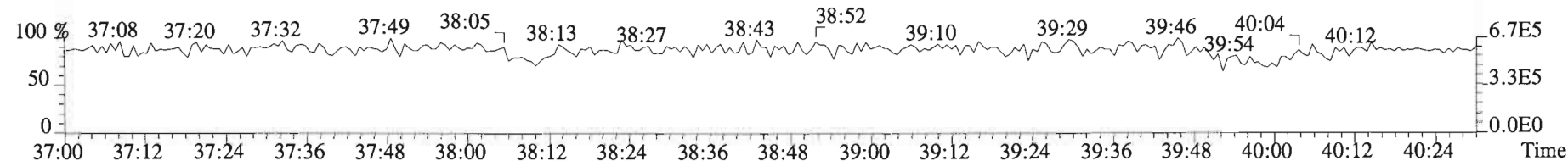
435.8169 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



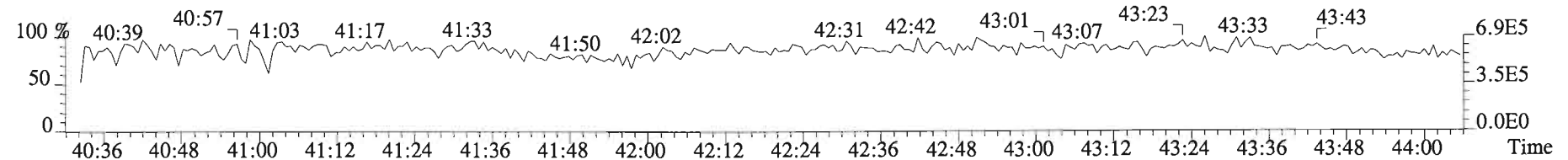
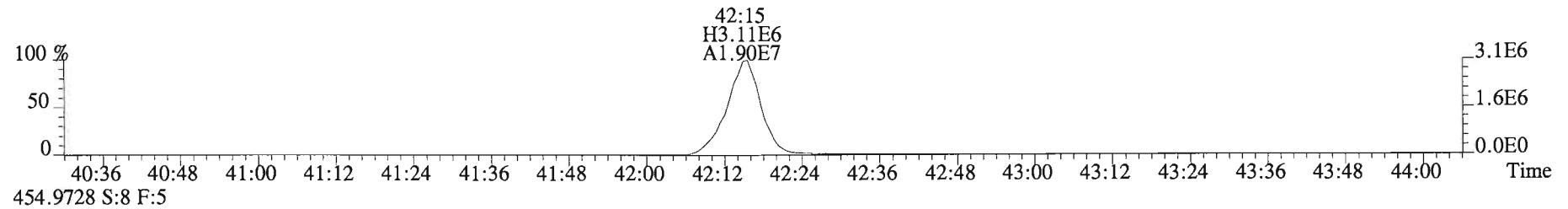
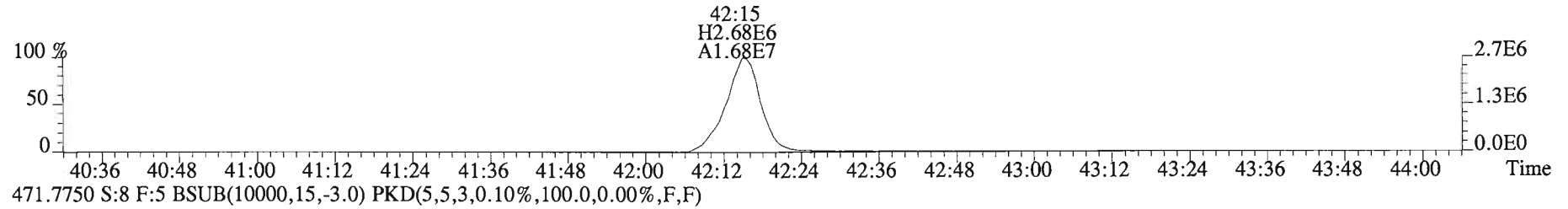
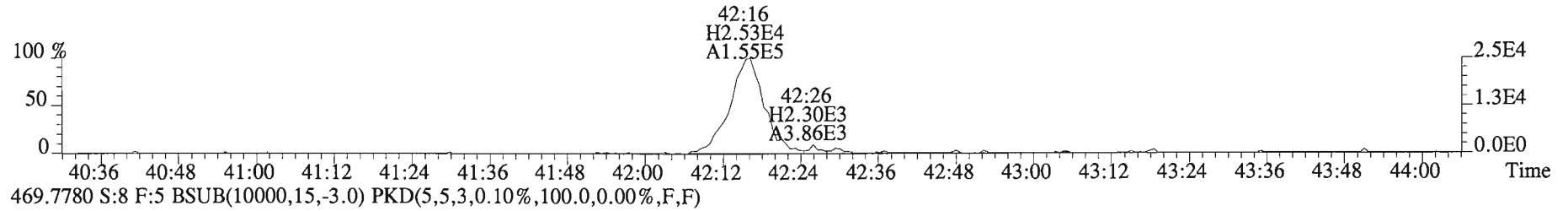
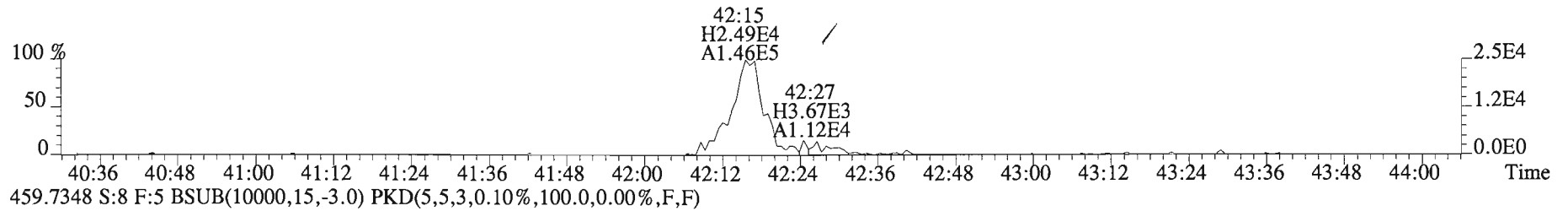
437.8140 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



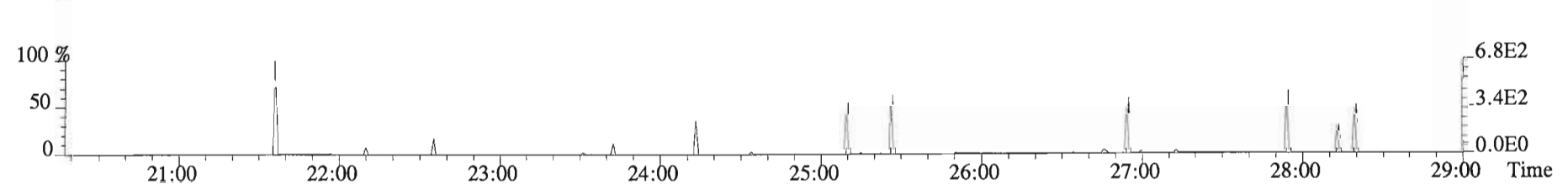
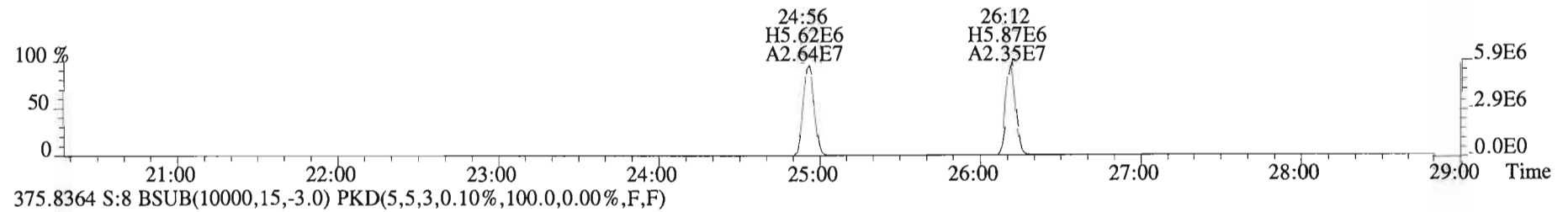
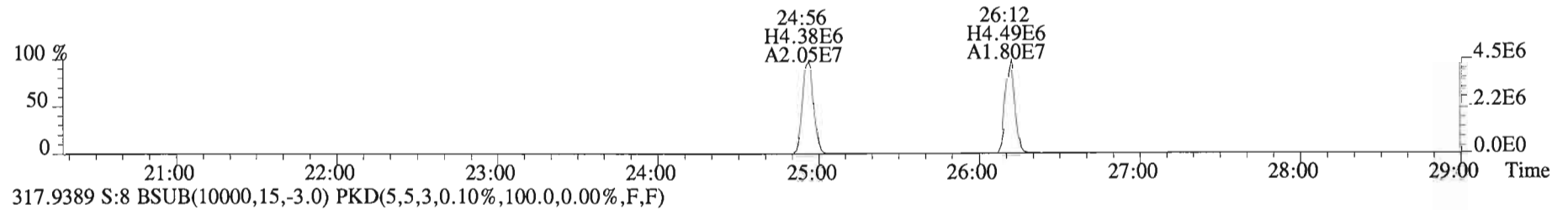
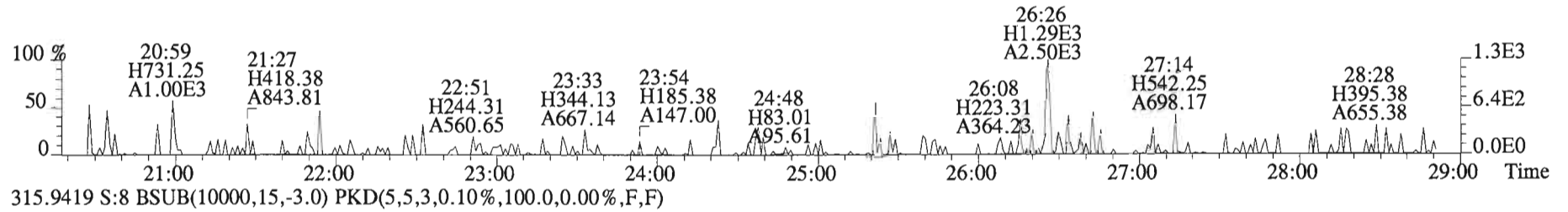
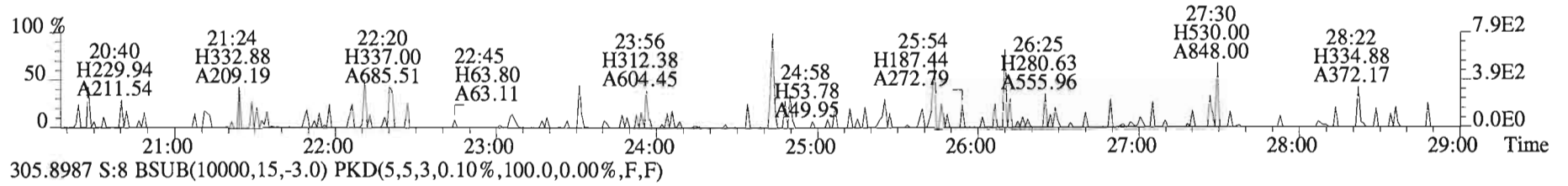
430.9728 S:8 F:4



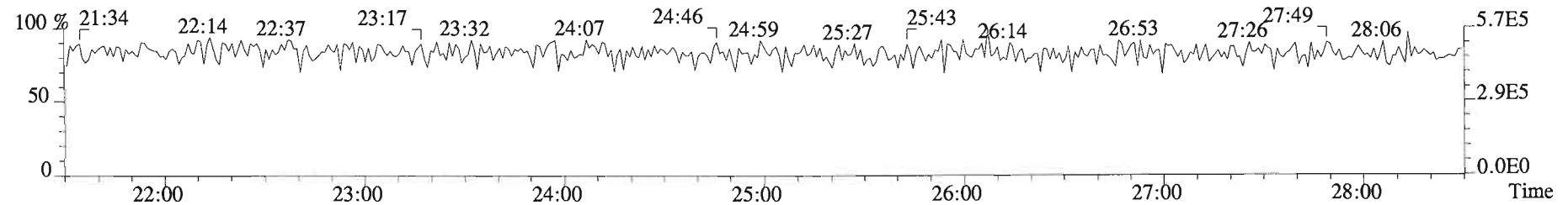
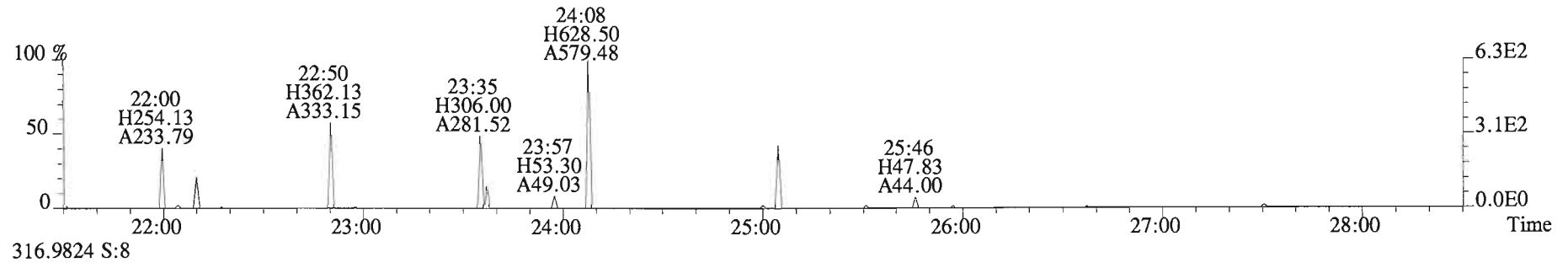
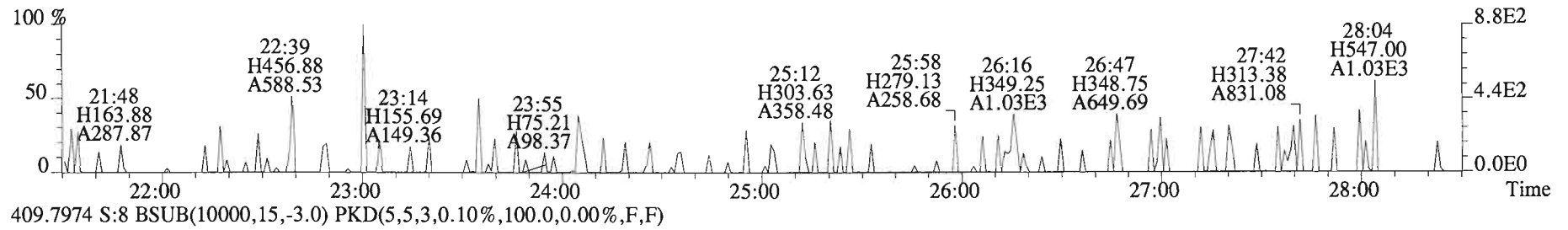
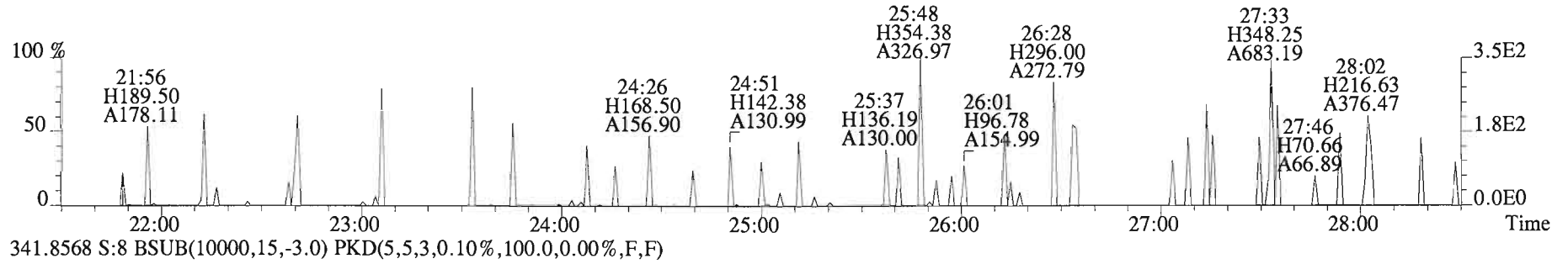
File:150219D1 #1-388 Acq:19-FEB-2015 17:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BLK1 Method Blank 10 Exp:OCDD_DB5
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



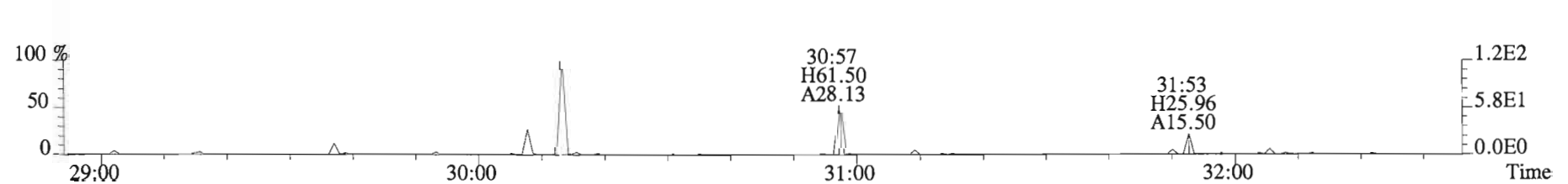
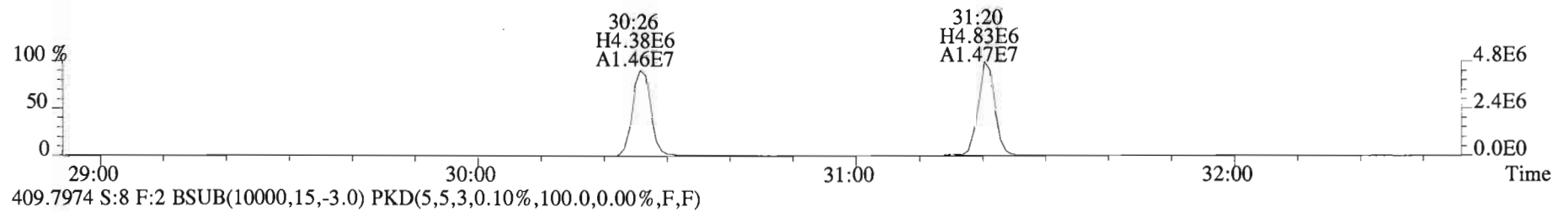
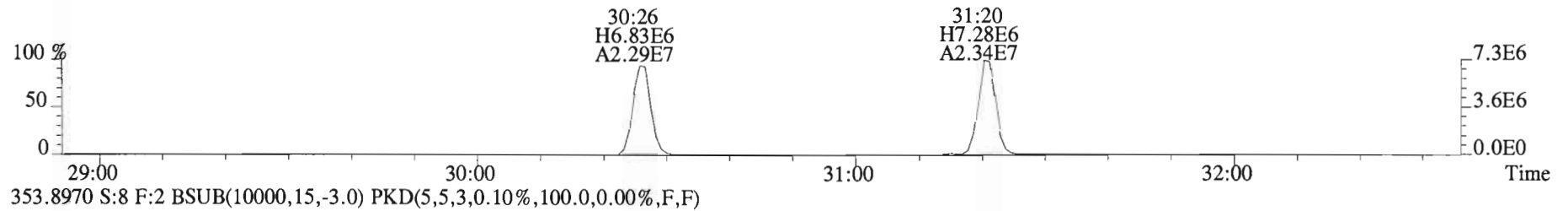
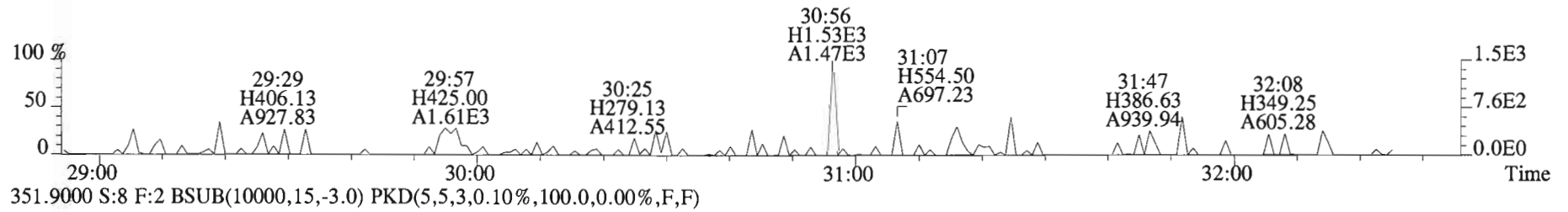
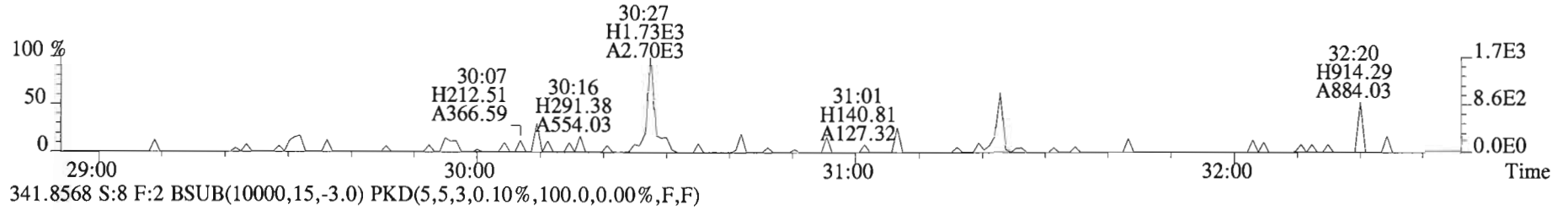
File:150219D1 #1-552 Acq:19-FEB-2015 17:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BLK1 Method Blank 10 Exp:OCDD_DB5
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



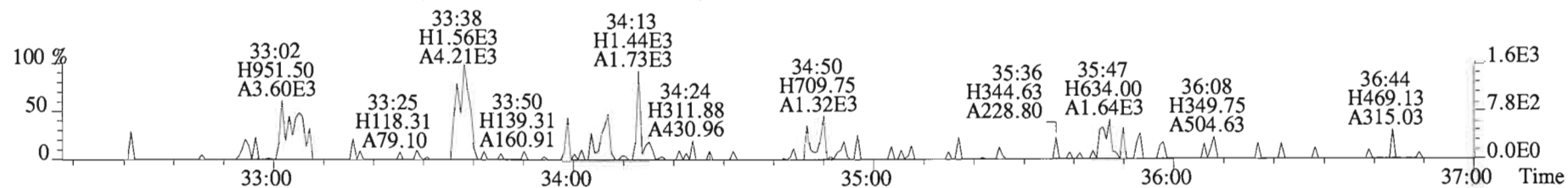
File:150219D1 #1-552 Acq:19-FEB-2015 17:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BLK1 Method Blank 10 Exp:OCDD_DB5
339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



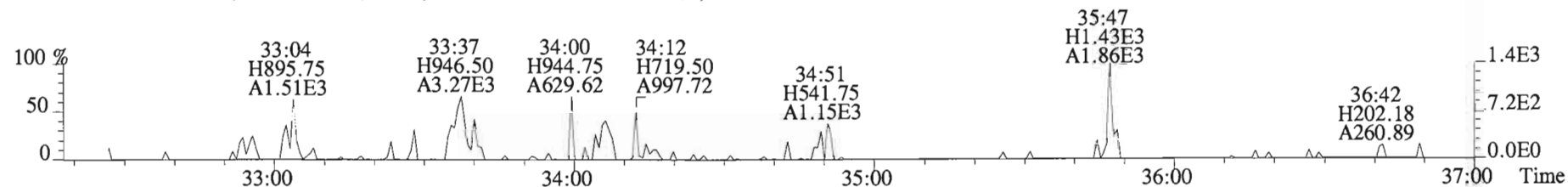
File:150219D1 #1-250 Acq:19-FEB-2015 17:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BLK1 Method Blank 10 Exp:OCDD_DB5
339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



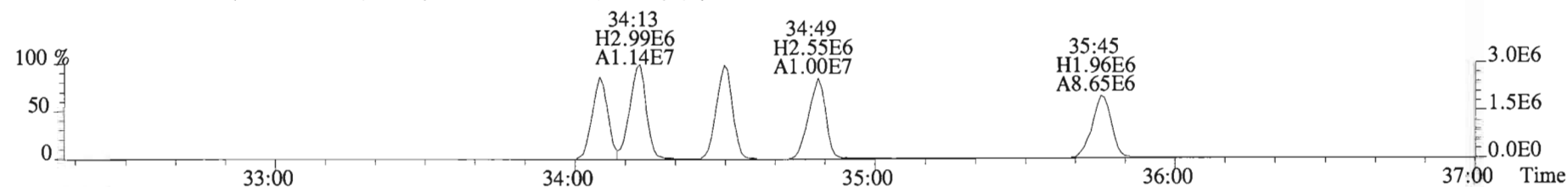
File:150219D1 #1-393 Acq:19-FEB-2015 17:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BLK1 Method Blank 10 Exp:OCDD_DB5
373.8207 S:8 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



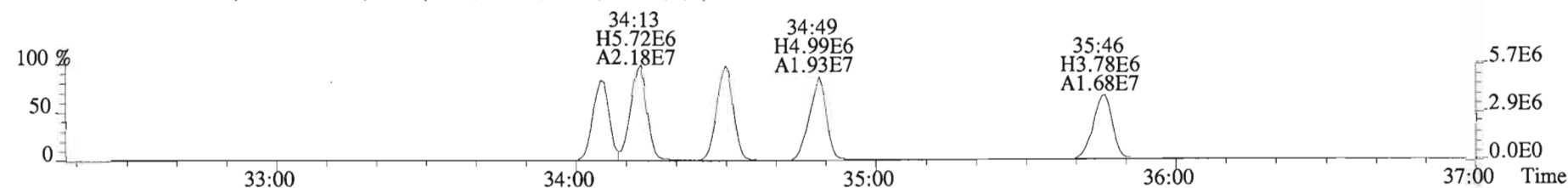
375.8178 S:8 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



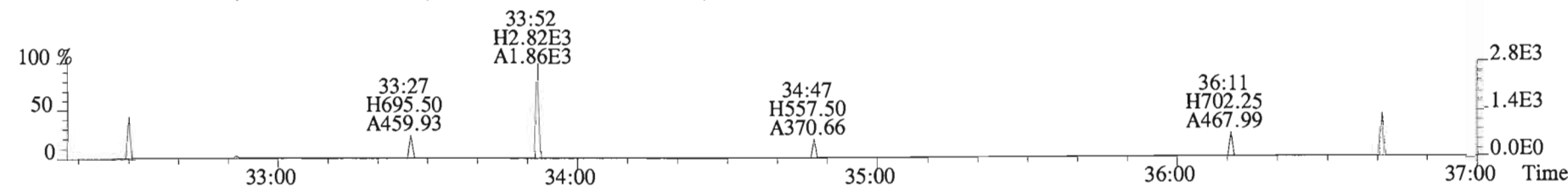
383.8639 S:8 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



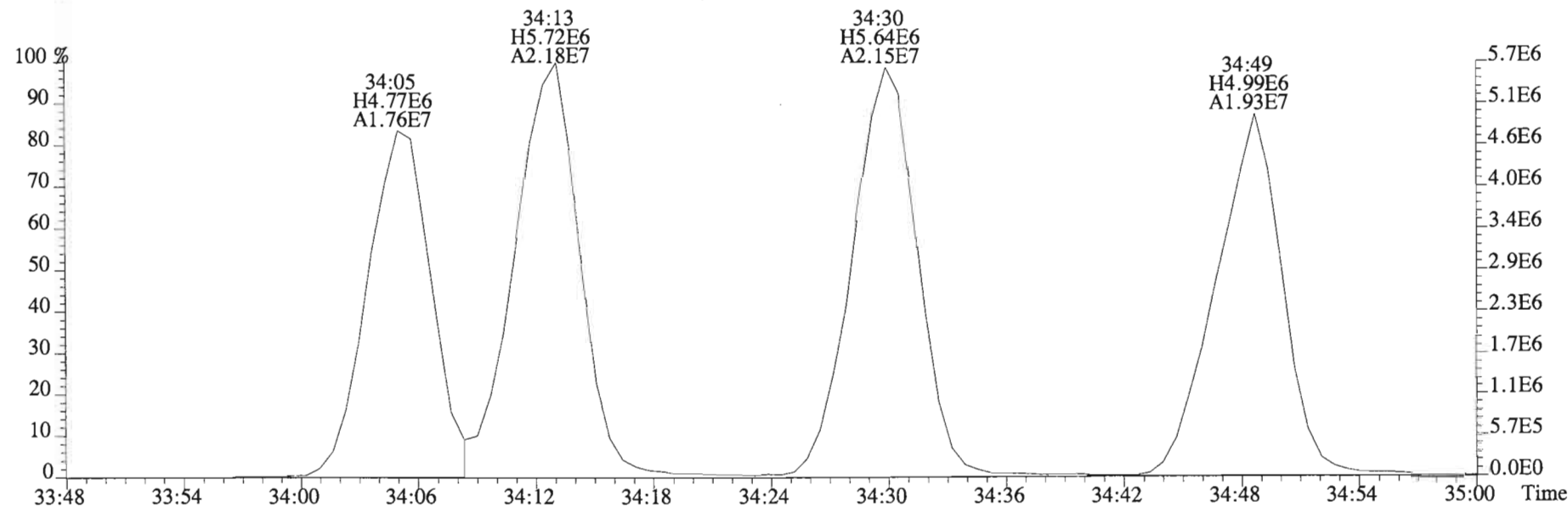
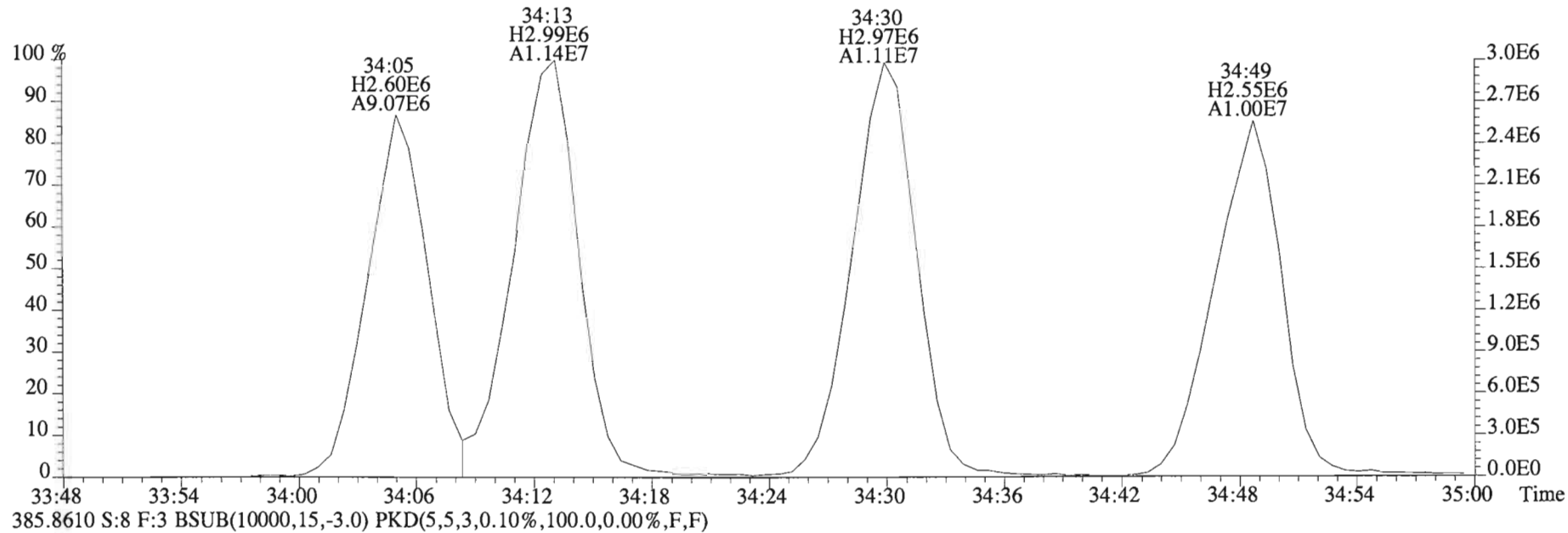
385.8610 S:8 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



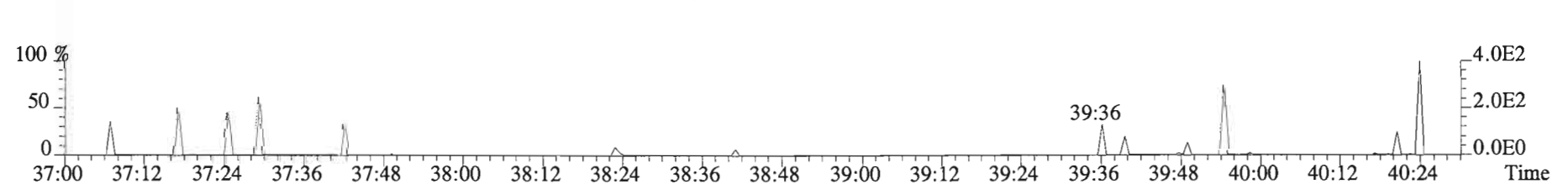
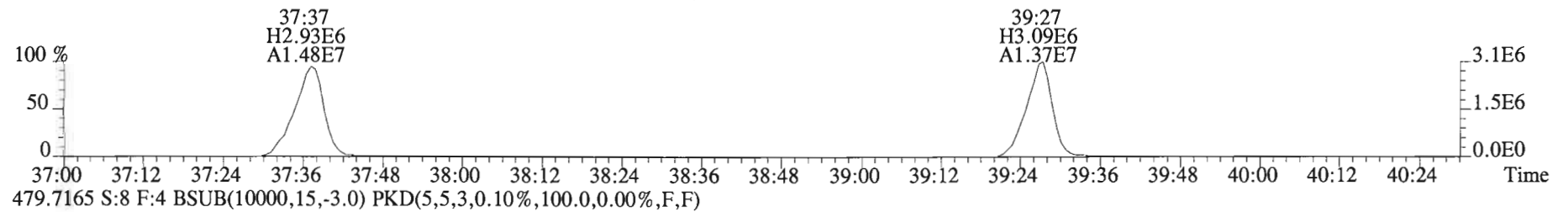
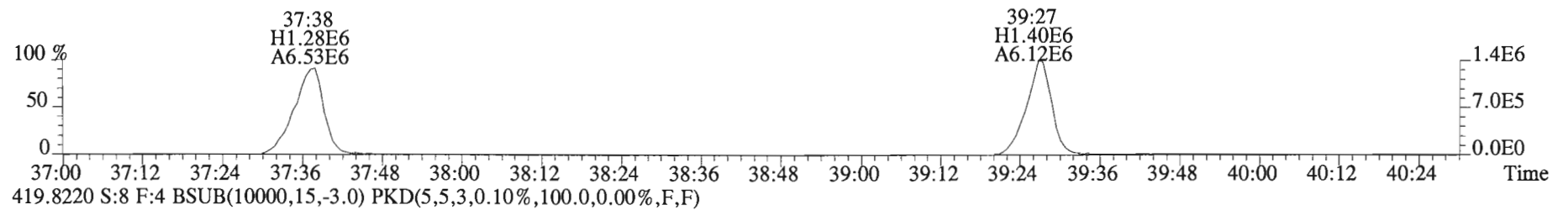
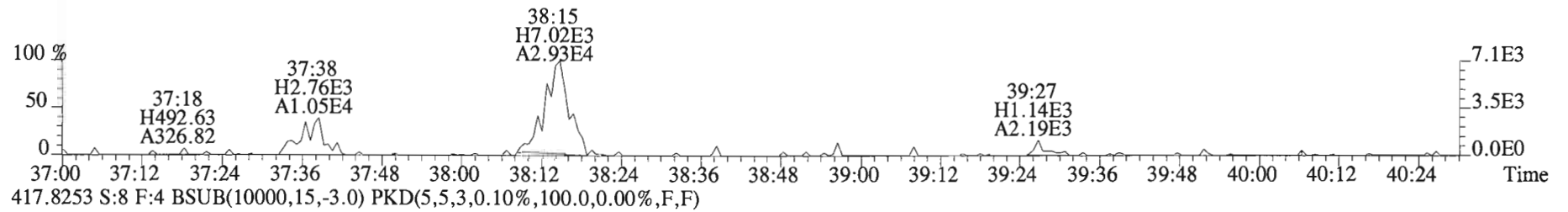
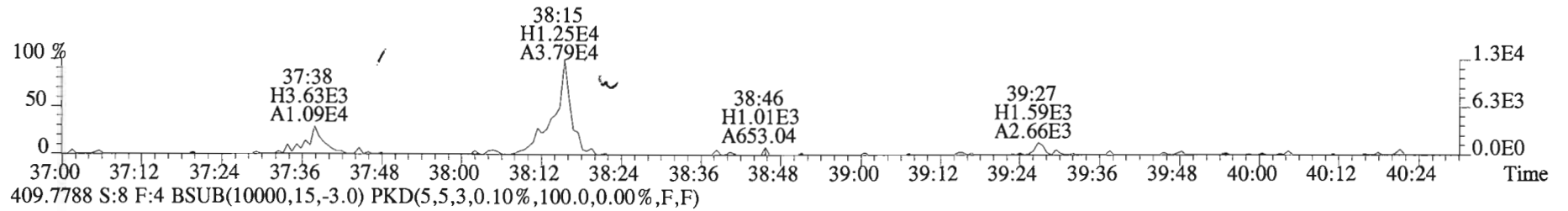
445.7555 S:8 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



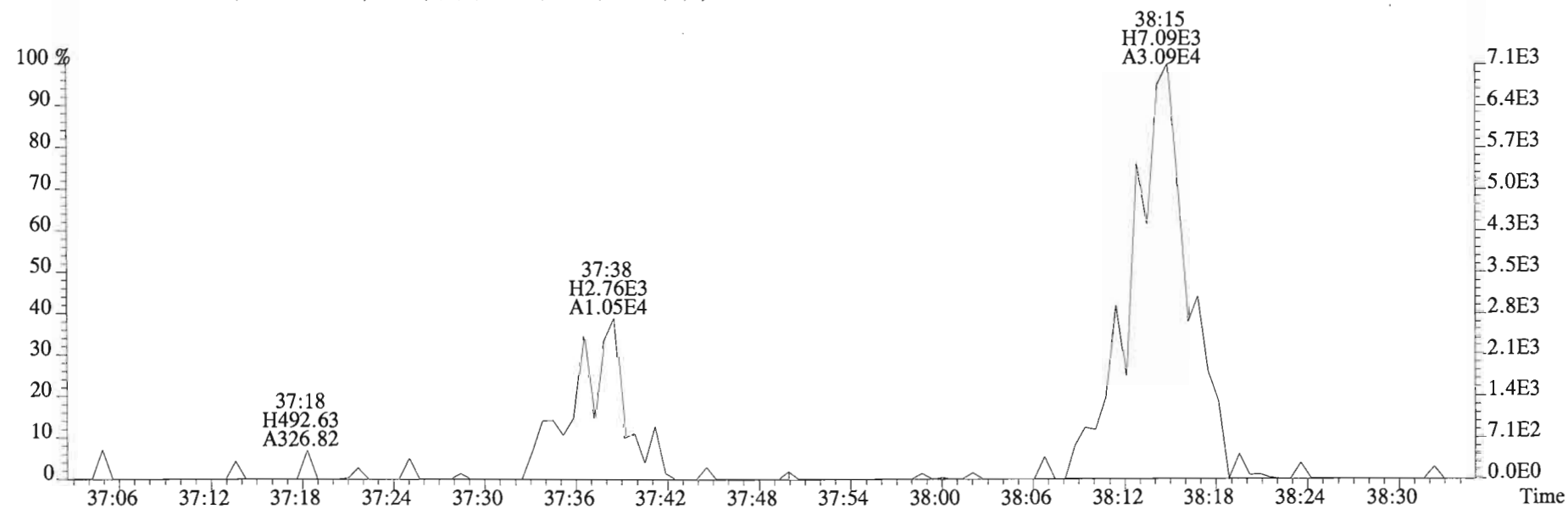
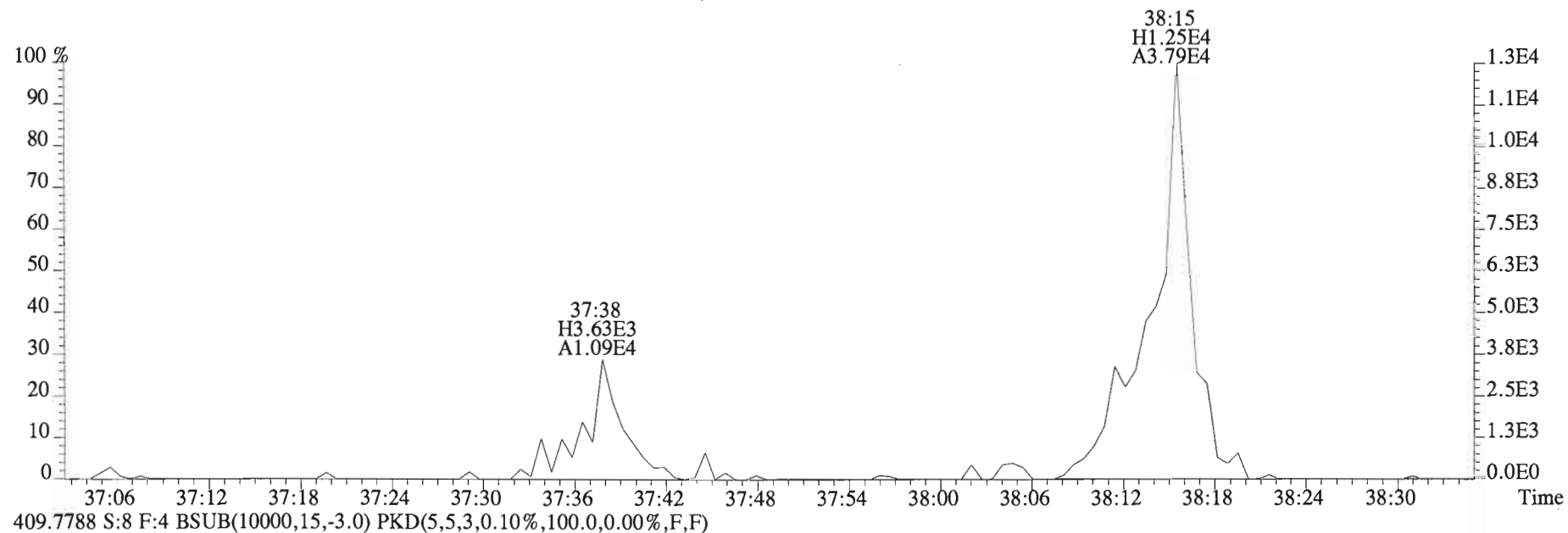
File:150219D1 #1-393 Acq:19-FEB-2015 17:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BLK1 Method Blank 10 Exp:OCDD_DB5
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



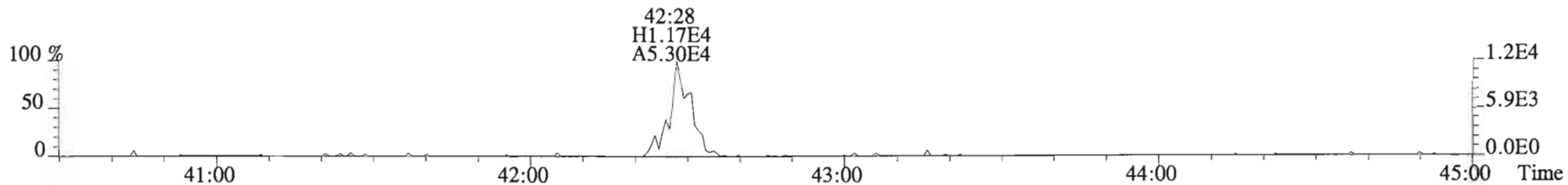
File:150219D1 #1-326 Acq:19-FEB-2015 17:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BLK1 Method Blank 10 Exp:OCDD_DB5
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



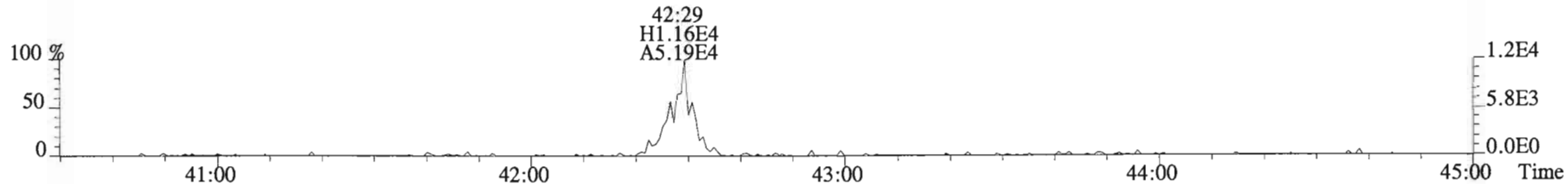
File:150219D1 #1-326 Acq:19-FEB-2015 17:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BLK1 Method Blank 10 Exp:OCDD_DB5
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



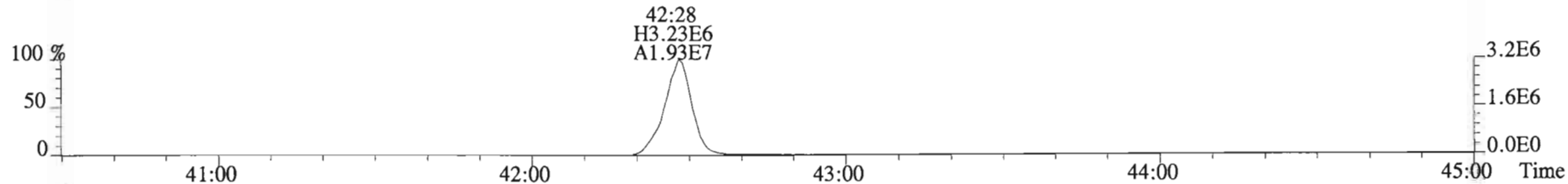
File:150219D1 #1-388 Acq:19-FEB-2015 17:39:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BLK1 Method Blank 10 Exp:OCDD_DB5
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



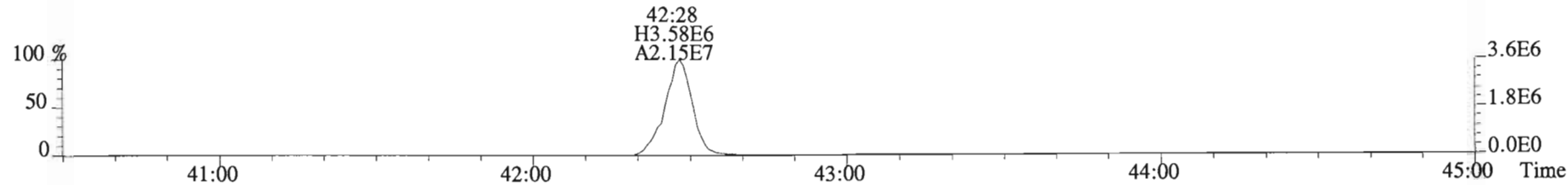
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



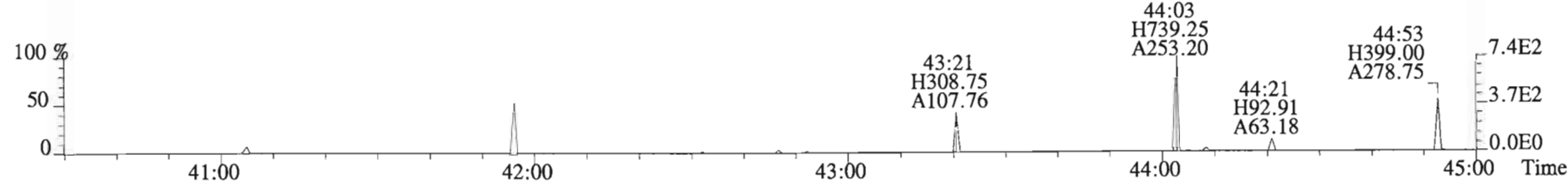
453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:8 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: B5B0068-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): SOLID OPR Data Filename: 150219D1-5

Ext. Date: 2-17-15 Shift: Day Analysis Date: 19-FEB-15 Time: 15:12:41

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	8.86	6.7 - 15.8
1,2,3,7,8-PeCDD	50	47.9	7.3 - 14.6 (2) 35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	52.4	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	50.2	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	50.7	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	50.0	35.0 - 70.0
OCDD	100	102	78.0 - 144.0
2,3,7,8-TCDF	10	9.21	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	49.3	40.0 - 67.0
2,3,4,7,8-PeCDF	50	50.4	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	50.5	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	51.2	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	51.1	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	51.1	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	51.5	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	51.9	39.0 - 69.0
OCDF	100	103	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: ms

Date: 2/24/15

FORM 8B

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B5B0068-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): SOLID OPR Data Filename: 150219D1-5

Ext. Date: 2-17-15 Shift: Day Analysis Date: 19-FEB-15 Time: 15:12:41

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	97.7	20.0 - 175.0 25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	87.6	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	92.0	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	87.8	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	90.7	21.0 - 193.0
13C-1,2,3,4,6,7,8-HpCDD	100	103	26.0 - 166.0
13C-OCDD	200	154	26.0 - 397.0
13C-2,3,7,8-TCDF	100	97.6	22.0 - 152.0 26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	91.2	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	93.8	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	88.0	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	99.7	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	88.4	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	94.5	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	95.2	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	97.5	20.0 - 186.0
13C-OCDF	200	160	26.0 - 397.0
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	43.0	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. 10/94Analyst: mDate: 2/20/15

Client ID: OPR
Lab ID: B5B0068-BS1

Filename: 150219D1 S:5 Acq:19-FEB-15 15:12:41
GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.000

ConCal: ST150219D1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	2.94e+06	0.75 y	1.17	27:02	1.001	8.8602	*	2.5	*	*	Total Tetra-Dioxins	9.06	9.10	*	*	
1,2,3,7,8-PeCDD	1.23e+07	0.60 y	0.91	31:39	1.001	47.851	*	2.5	*	*	Total Penta-Dioxins	47.9	47.9	*	*	
1,2,3,4,7,8-HxCDD	1.14e+07	1.26 y	1.08	34:60	1.000	52.393	*	2.5	*	*	Total Hexa-Dioxins	153	154	*	*	
1,2,3,6,7,8-HxCDD	1.05e+07	1.27 y	1.06	35:06	1.001	50.239	*	2.5	*	*	Total Hepta-Dioxins	50.2	50.8	*	*	
1,2,3,7,8,9-HxCDD	1.11e+07	1.27 y	0.93	35:24	1.000	50.735	*	2.5	*	*	Total Tetra-Furans	9.22	9.50	*	*	
1,2,3,4,6,7,8-HpCDD	1.13e+07	1.04 y	1.10	38:55	1.000	49.988	*	2.5	*	*	Total Penta-Furans	100.82	101.15	*	*	
OCDD	1.73e+07	0.89 y	0.95	42:15	1.000	102.00	*	2.5	*	*	Total Hexa-Furans	204	205	*	*	
											Total Hepta-Furans	103	104	*	*	
2,3,7,8-TCDF	3.91e+06	0.76 y	1.07	26:13	1.001	9.2089	*	2.5	*	*						
1,2,3,7,8-PeCDF	1.97e+07	1.57 y	1.07	30:27	1.000	49.261	*	2.5	*	*						
2,3,4,7,8-PeCDF	2.01e+07	1.62 y	1.03	31:21	1.000	50.351	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	1.84e+07	1.29 y	1.38	34:06	1.000	50.490	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	2.12e+07	1.31 y	1.26	34:13	1.000	51.246	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	1.82e+07	1.29 y	1.29	34:49	1.001	51.133	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	1.50e+07	1.33 y	1.19	35:46	1.000	51.129	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	1.74e+07	1.10 y	1.61	37:37	1.000	51.489	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	1.64e+07	1.08 y	1.53	39:27	1.000	51.865	*	2.5	*	*						
OCDF	2.34e+07	0.93 y	1.10	42:28	1.000	103.03	*	2.5	*	*						
											Rec	Qual				
IS 13C-2,3,7,8-TCDD	2.83e+07	0.80 y	1.06	27:01	1.022	97.721					97.7					
IS 13C-1,2,3,7,8-PeCDD	2.82e+07	0.62 y	1.18	31:38	1.197	87.606					87.6					
IS 13C-1,2,3,4,7,8-HxCDD	2.02e+07	1.18 y	0.72	34:59	1.014	91.977					92.0					
IS 13C-1,2,3,6,7,8-HxCDD	1.97e+07	1.33 y	0.74	35:05	1.017	87.848					87.8					
IS 13C-1,2,3,7,8,9-HxCDD	2.36e+07	1.24 y	0.85	35:23	1.026	90.658					90.7					
IS 13C-1,2,3,4,6,7,8-HpCDD	2.05e+07	1.05 y	0.65	38:55	1.128	102.91					103					
IS 13C-OCDD	3.58e+07	0.90 y	0.76	42:15	1.225	153.97					77.0					
IS 13C-2,3,7,8-TCDF	3.96e+07	0.77 y	0.92	26:12	0.991	97.594					97.6					
IS 13C-1,2,3,7,8-PeCDF	3.72e+07	1.57 y	0.92	30:26	1.151	91.218					91.2					
IS 13C-2,3,4,7,8-PeCDF	3.86e+07	1.58 y	0.93	31:20	1.186	93.809					93.8					
IS 13C-1,2,3,4,7,8-HxCDF	2.63e+07	0.51 y	0.98	34:05	0.988	88.027					88.0					
IS 13C-1,2,3,6,7,8-HxCDF	3.29e+07	0.52 y	1.08	34:12	0.992	99.683					99.7					
IS 13C-2,3,4,6,7,8-HxCDF	2.76e+07	0.52 y	1.03	34:48	1.009	88.424					88.4					
IS 13C-1,2,3,7,8,9-HxCDF	2.48e+07	0.51 y	0.86	35:45	1.037	94.473					94.5					
IS 13C-1,2,3,4,6,7,8-HpCDF	2.09e+07	0.45 y	0.72	37:37	1.090	95.203					95.2					
IS 13C-1,2,3,4,7,8,9-HpCDF	2.07e+07	0.44 y	0.70	39:27	1.144	97.492					97.5					
IS 13C-OCDF	4.13e+07	0.90 y	0.85	42:27	1.231	159.73					79.9					
C/Up 37C1-2,3,7,8-TCDD	1.32e+07		1.12	27:02	1.022	43.028					108					
RS/RT 13C-1,2,3,4-TCDD	2.74e+07	0.81 y	1.00	26:26	*	100.00										
RS 13C-1,2,3,4-TCDF	4.42e+07	0.78 y	1.00	24:56	*	100.00										
RS/RT 13C-1,2,3,4,6,9-HxCDF	3.05e+07	0.51 y	1.00	34:30	*	100.00										

Integrations Reviewed
by Analyst: VM by Analyst: [Signature]
Date: 2/20/15 Date: 2/20/15

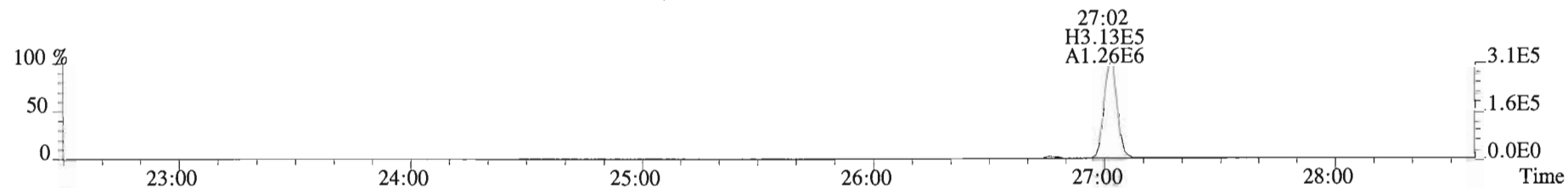
Client ID: OPR
Lab ID: B5B0068-BS1

Filename: 150219D1 S:5 Acq:19-FEB-15 15:12:41
GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol:10.000

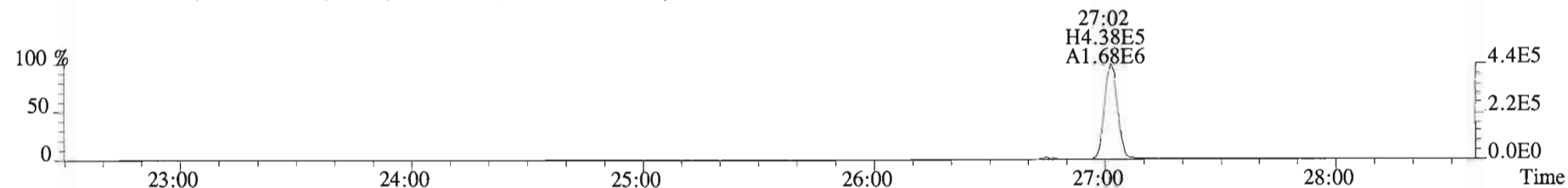
ConCal: ST150219D1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	2.94e+06	0.75 y	1.17	27:02	1.001	17.720		*	2.5	*	Total Tetra-Dioxins	18.1	18.2	*	*	
1,2,3,7,8-PeCDD	1.23e+07	0.60 y	0.91	31:39	1.001	95.702		*	2.5	*	Total Penta-Dioxins	95.7	95.7	*	*	
1,2,3,4,7,8-HxCDD	1.14e+07	1.26 y	1.08	34:60	1.000	104.79		*	2.5	*	Total Hexa-Dioxins	307	308	*	*	
1,2,3,6,7,8-HxCDD	1.05e+07	1.27 y	1.06	35:06	1.001	100.48		*	2.5	*	Total Hepta-Dioxins	100	102	*	*	
1,2,3,7,8,9-HxCDD	1.11e+07	1.27 y	0.93	35:24	1.000	101.47		*	2.5	*	Total Tetra-Furans	18.4	19.0	*	*	
1,2,3,4,6,7,8-HpCDD	1.13e+07	1.04 y	1.10	38:55	1.000	99.975		*	2.5	*	Total Penta-Furans	201.65	202.31	*	*	
OCDD	1.73e+07	0.89 y	0.95	42:15	1.000	203.99		*	2.5	*	Total Hexa-Furans	408	410	*	*	
											Total Hepta-Furans	207	209	*	*	
2,3,7,8-TCDF	3.91e+06	0.76 y	1.07	26:13	1.001	18.418		*	2.5	*						
1,2,3,7,8-PeCDF	1.97e+07	1.57 y	1.07	30:27	1.000	98.523		*	2.5	*						
2,3,4,7,8-PeCDF	2.01e+07	1.62 y	1.03	31:21	1.000	100.70		*	2.5	*						
1,2,3,4,7,8-HxCDF	1.84e+07	1.29 y	1.38	34:06	1.000	100.98		*	2.5	*						
1,2,3,6,7,8-HxCDF	2.12e+07	1.31 y	1.26	34:13	1.000	102.49		*	2.5	*						
2,3,4,6,7,8-HxCDF	1.82e+07	1.29 y	1.29	34:49	1.001	102.27		*	2.5	*						
1,2,3,7,8,9-HxCDF	1.50e+07	1.33 y	1.19	35:46	1.000	102.26		*	2.5	*						
1,2,3,4,6,7,8-HpCDF	1.74e+07	1.10 y	1.61	37:37	1.000	102.98		*	2.5	*						
1,2,3,4,7,8,9-HpCDF	1.64e+07	1.08 y	1.53	39:27	1.000	103.73		*	2.5	*						
OCDF	2.34e+07	0.93 y	1.10	42:28	1.000	206.06		*	2.5	*						
IS	13C-2,3,7,8-TCDD	2.83e+07	0.80 y	1.06	27:01	1.022	195.44				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	2.82e+07	0.62 y	1.18	31:38	1.197	175.21				97.7					
IS	13C-1,2,3,4,7,8-HxCDD	2.02e+07	1.18 y	0.72	34:59	1.014	183.95				87.6					
IS	13C-1,2,3,6,7,8-HxCDD	1.97e+07	1.33 y	0.74	35:05	1.017	175.70				92.0					
IS	13C-1,2,3,7,8,9-HxCDD	2.36e+07	1.24 y	0.85	35:23	1.026	181.32				87.8					
IS	13C-1,2,3,4,6,7,8-HpCDD	2.05e+07	1.05 y	0.65	38:55	1.128	205.81				90.7					
IS	13C-OCDD	3.58e+07	0.90 y	0.76	42:15	1.225	307.94				103					
IS	13C-2,3,7,8-TCDF	3.96e+07	0.77 y	0.92	26:12	0.991	195.19				77.0					
IS	13C-1,2,3,7,8-PeCDF	3.72e+07	1.57 y	0.92	30:26	1.151	182.44				97.6					
IS	13C-2,3,4,7,8-PeCDF	3.86e+07	1.58 y	0.93	31:20	1.186	187.62				91.2					
IS	13C-1,2,3,4,7,8-HxCDF	2.63e+07	0.51 y	0.98	34:05	0.988	176.05				93.8					
IS	13C-1,2,3,6,7,8-HxCDF	3.29e+07	0.52 y	1.08	34:12	0.992	199.37				88.0					
IS	13C-2,3,4,6,7,8-HxCDF	2.76e+07	0.52 y	1.03	34:48	1.009	176.85				99.7					
IS	13C-1,2,3,7,8,9-HxCDF	2.48e+07	0.51 y	0.86	35:45	1.037	188.95				88.4					
IS	13C-1,2,3,4,6,7,8-HpCDF	2.09e+07	0.45 y	0.72	37:37	1.090	190.41				94.5					
IS	13C-1,2,3,4,7,8,9-HpCDF	2.07e+07	0.44 y	0.70	39:27	1.144	194.98				95.2					
IS	13C-OCDF	4.13e+07	0.90 y	0.85	42:27	1.231	319.46				97.5					
C/Up	37C1-2,3,7,8-TCDD	1.32e+07		1.12	27:02	1.022	86.057				108					
RS/RT	13C-1,2,3,4-TCDD	2.74e+07	0.81 y	1.00	26:26	*	200.00				Integrations	Reviewed				
RS	13C-1,2,3,4-TCDF	4.42e+07	0.78 y	1.00	24:56	*	200.00				by	by				
RS/RT	13C-1,2,3,4,6,9-HxCDF	3.05e+07	0.51 y	1.00	34:30	*	200.00				Analyst: <u>ms</u>	Analyst: <u>[Signature]</u>				
											Date: <u>2/20/15</u>	Date: <u>2/26/15</u>				

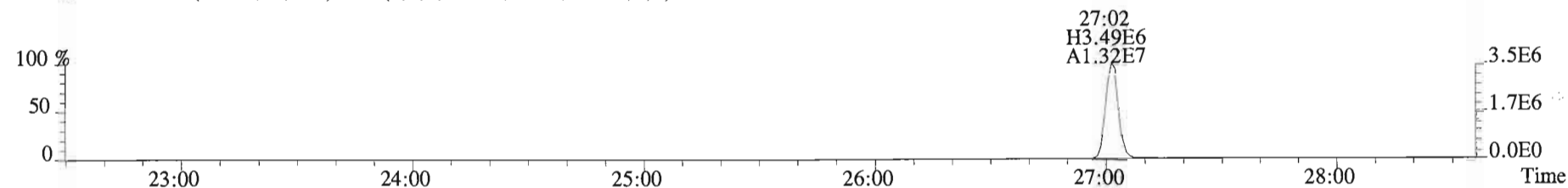
File:150219D1 #1-552 Acq:19-FEB-2015 15:12:41 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BS1 OPR 10 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



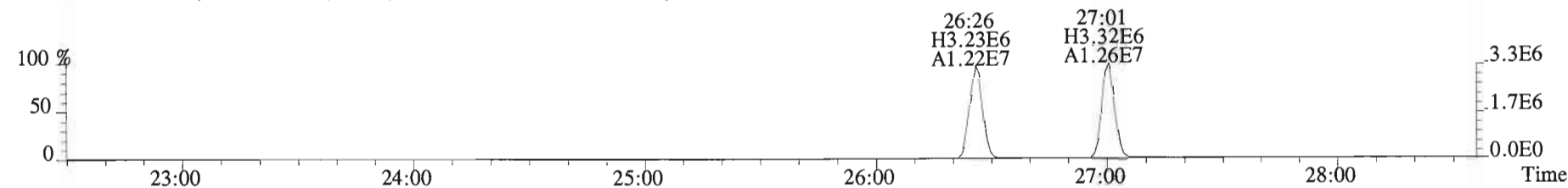
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



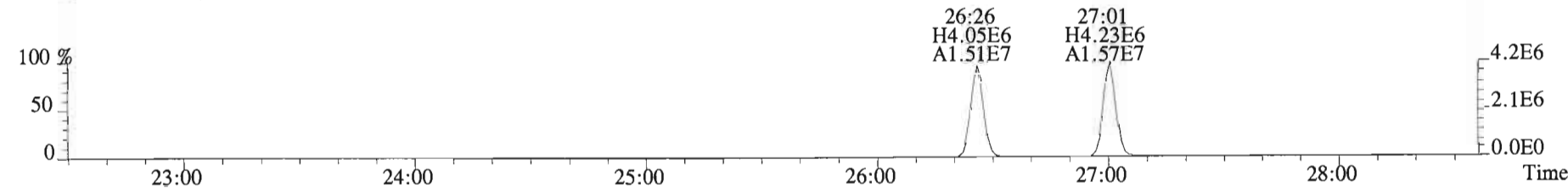
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



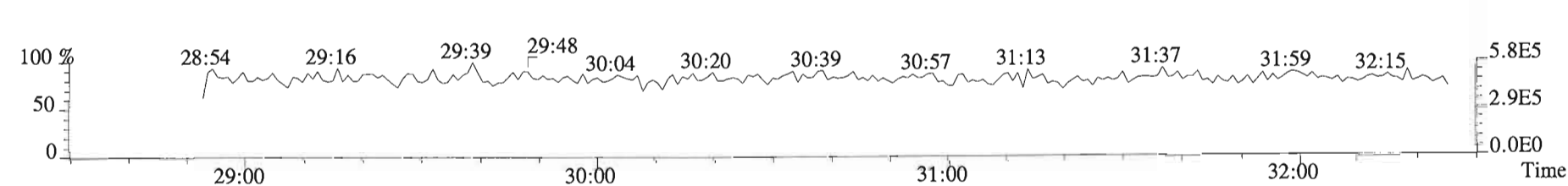
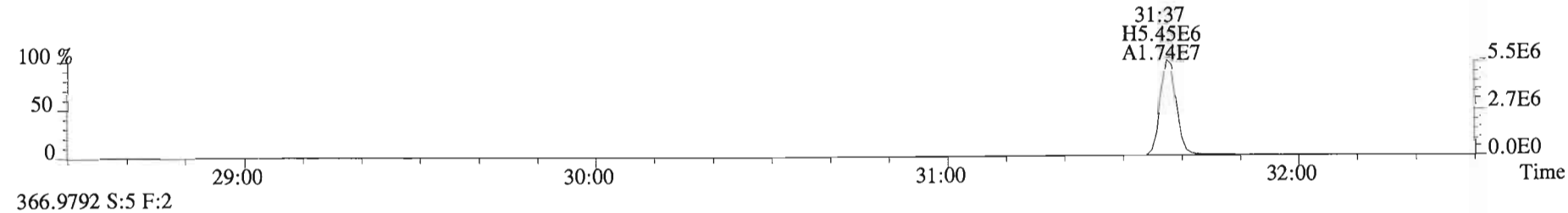
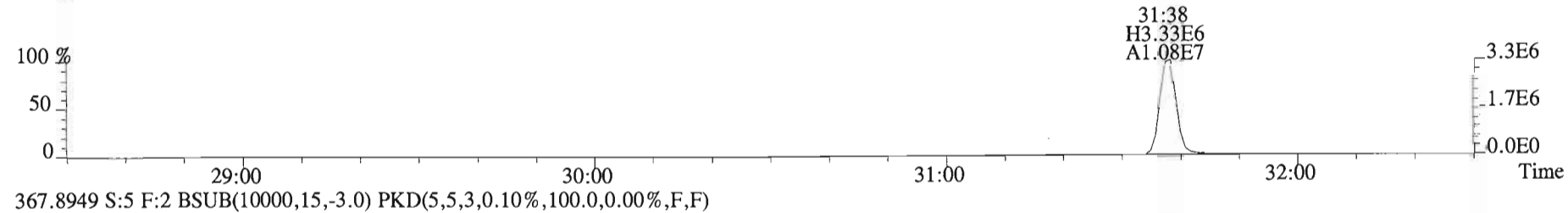
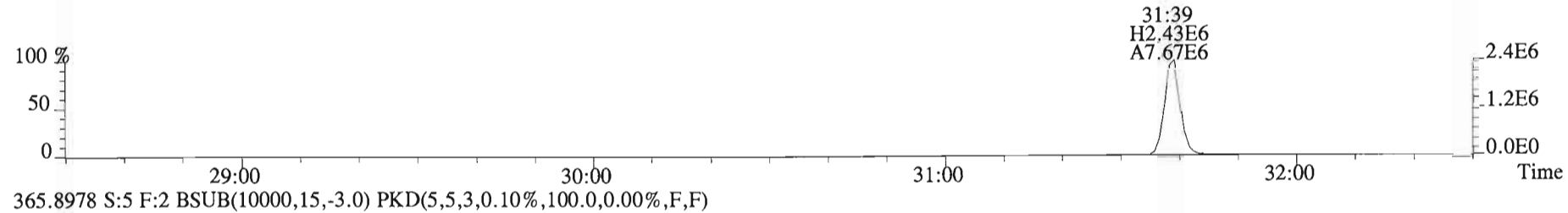
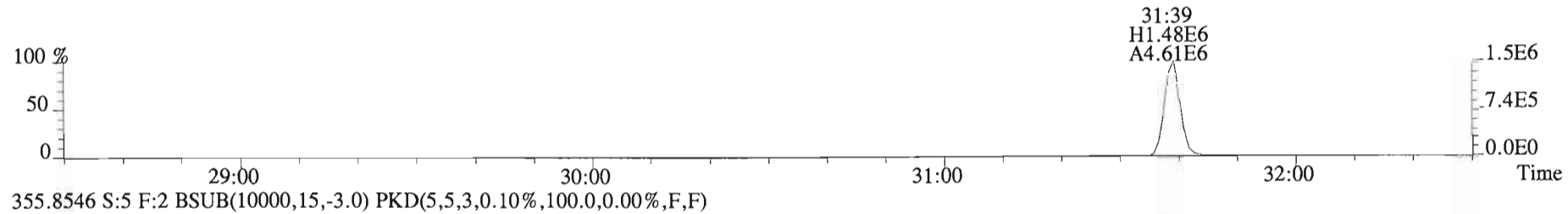
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



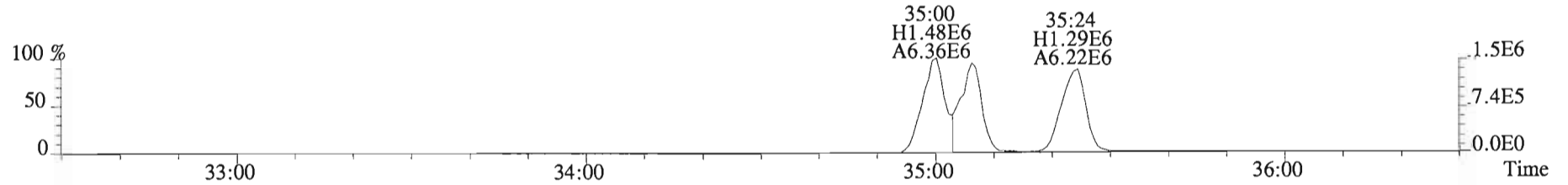
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



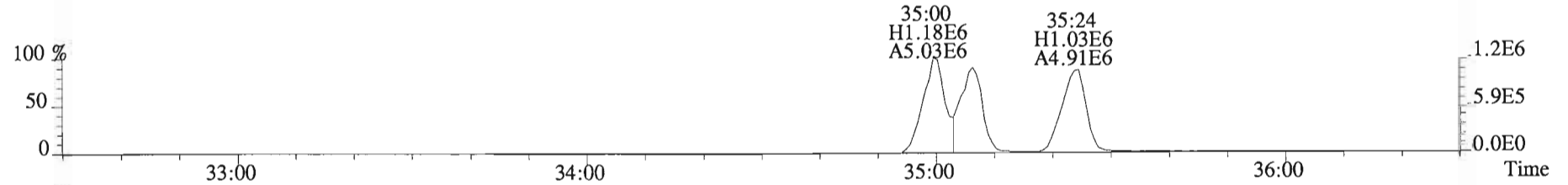
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Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BS1 OPR 10 Exp:OCDD_DB5
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



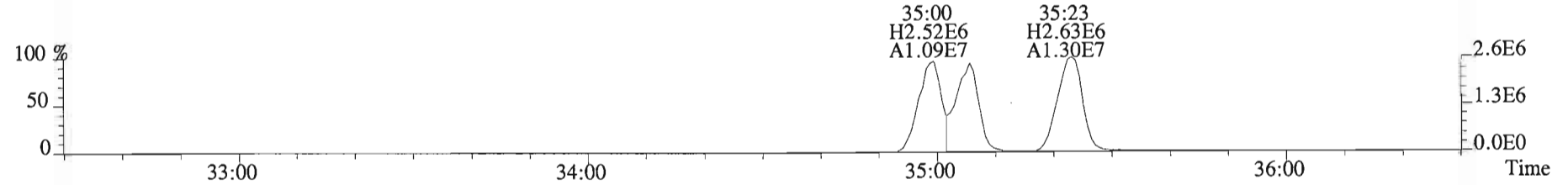
File:150219D1 #1-393 Acq:19-FEB-2015 15:12:41 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BS1 OPR 10 Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



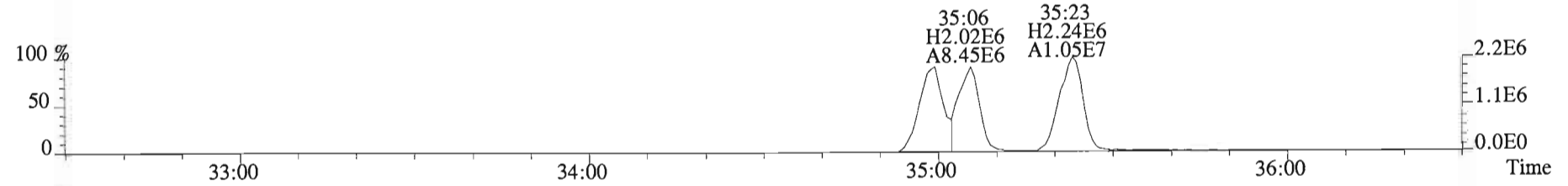
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



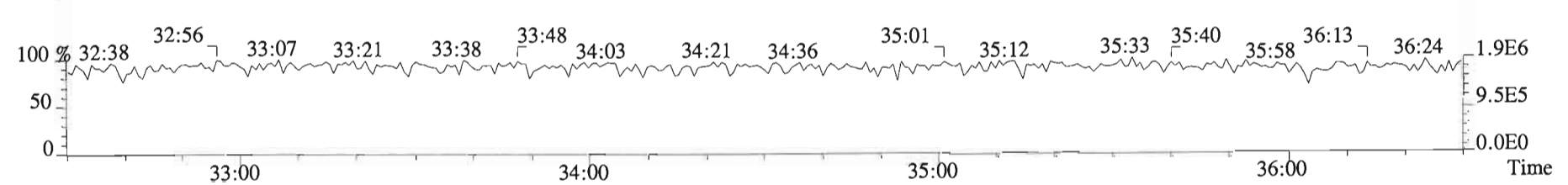
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



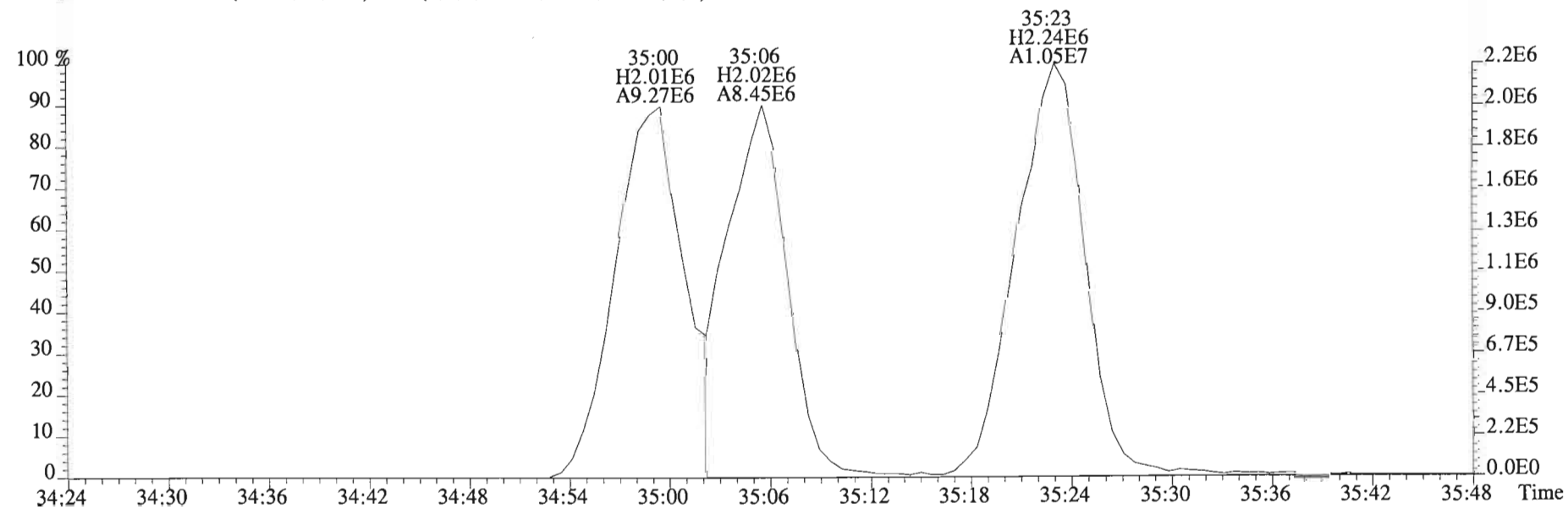
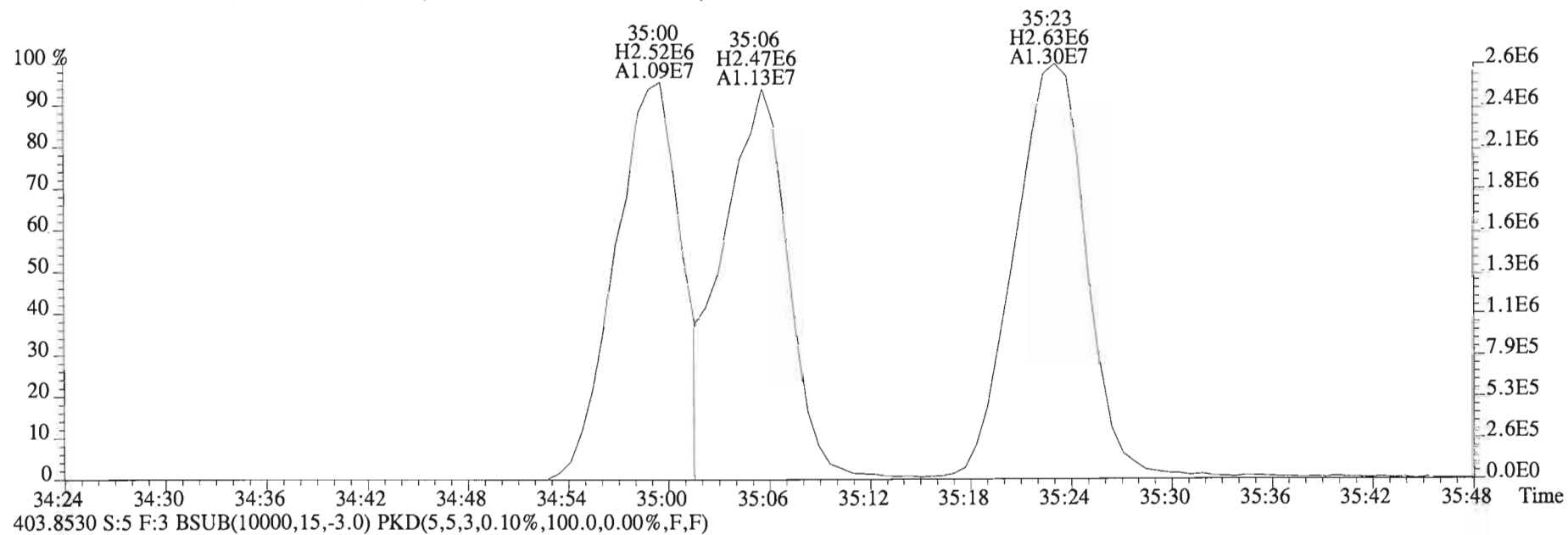
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



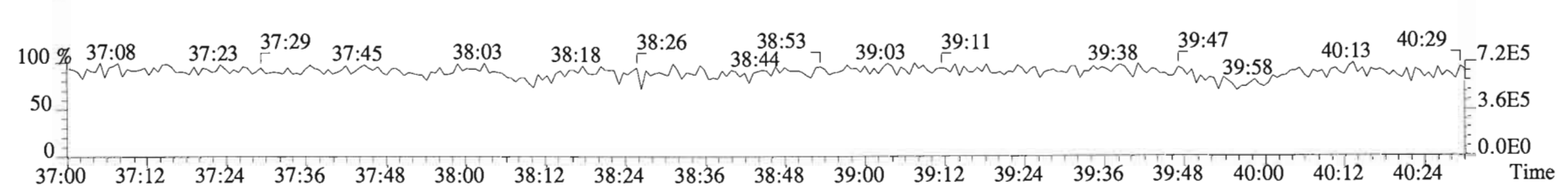
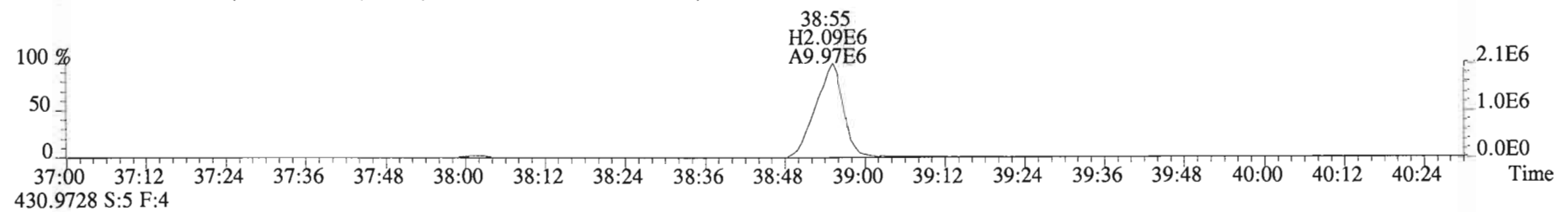
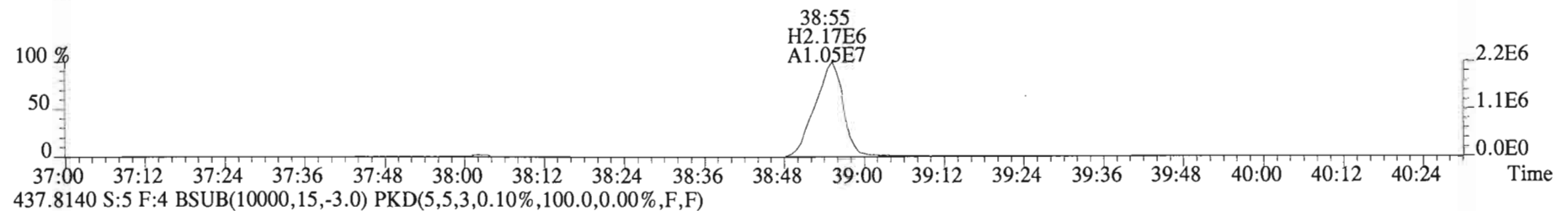
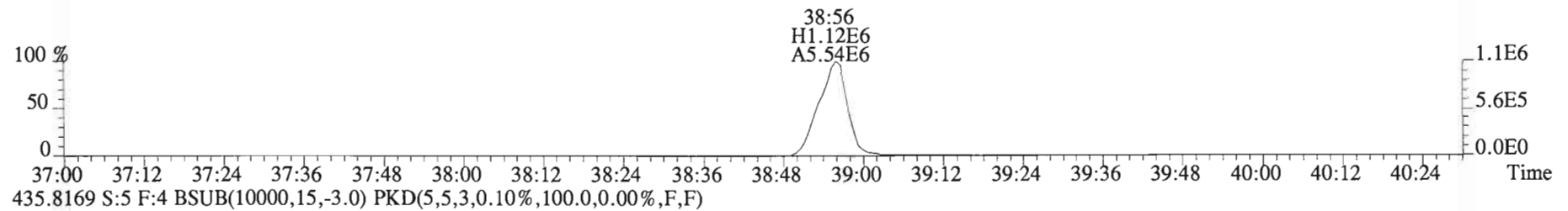
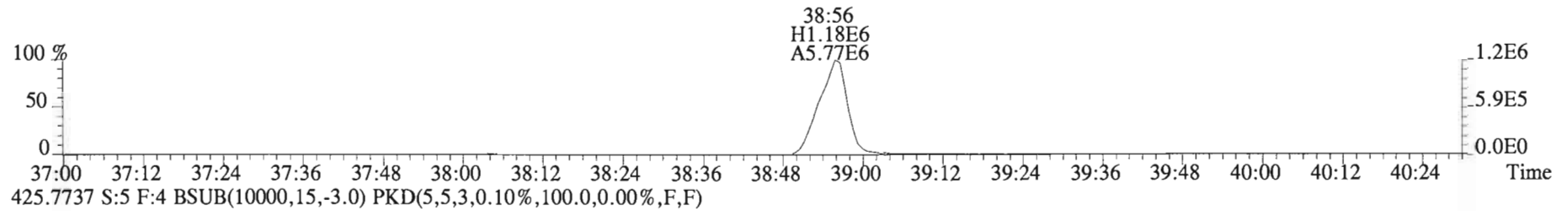
380.9760 S:5 F:3



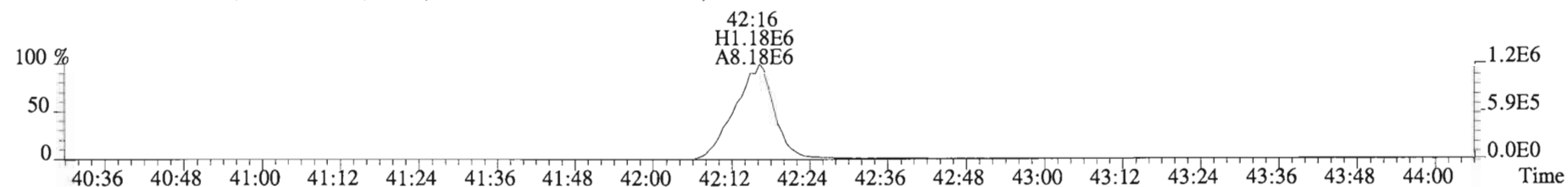
File:150219D1 #1-393 Acq:19-FEB-2015 15:12:41 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BS1 OPR 10 Exp:OCDD_DB5
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



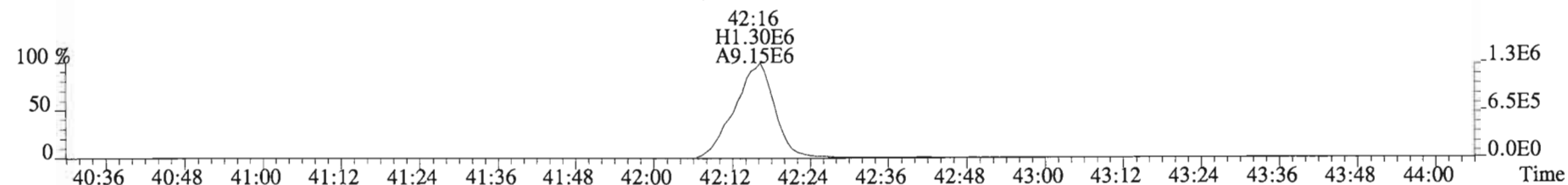
File:150219D1 #1-325 Acq:19-FEB-2015 15:12:41 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BS1 OPR 10 Exp:OCDD_DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



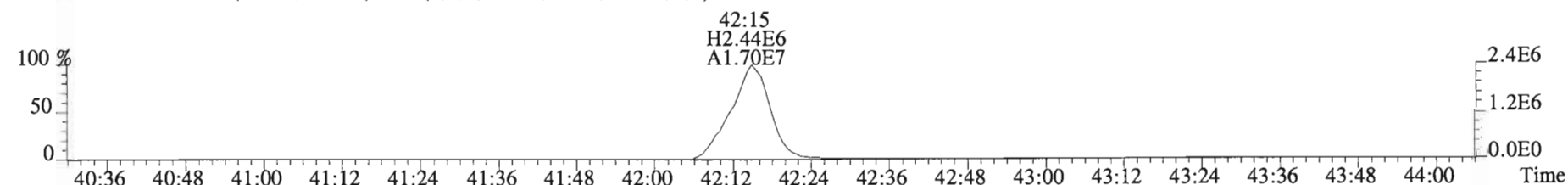
File:150219D1 #1-389 Acq:19-FEB-2015 15:12:41 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BS1 OPR 10 Exp:OCDD_DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



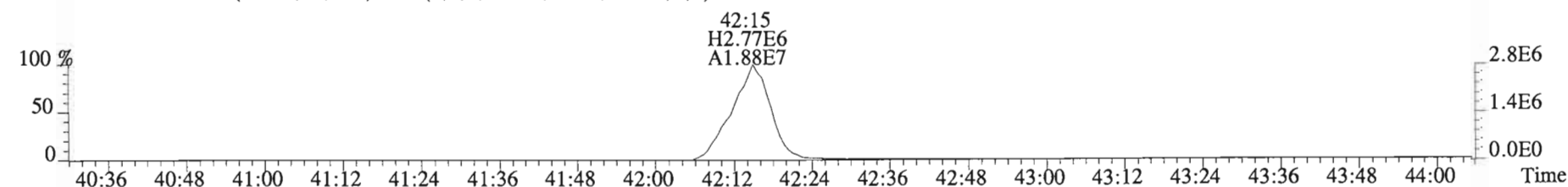
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



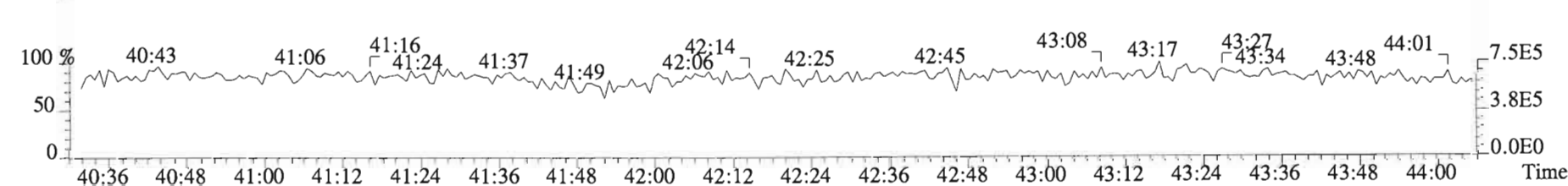
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



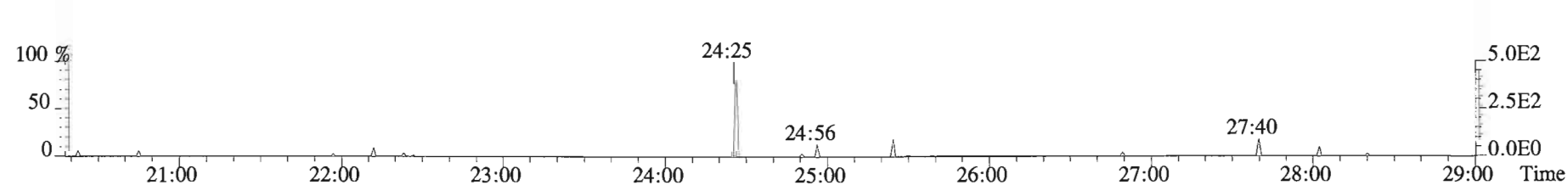
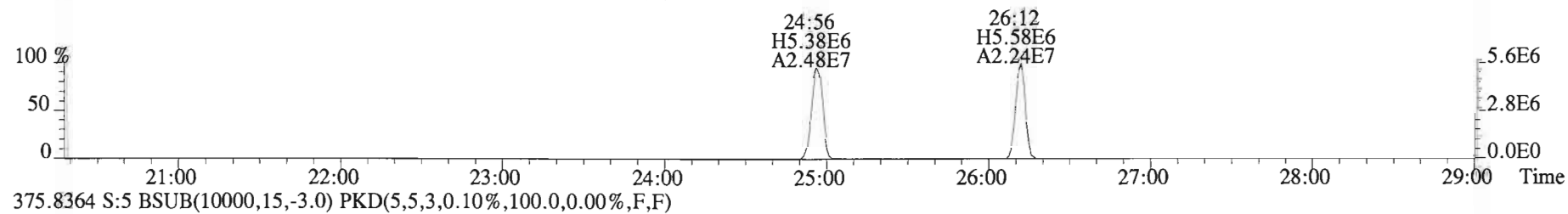
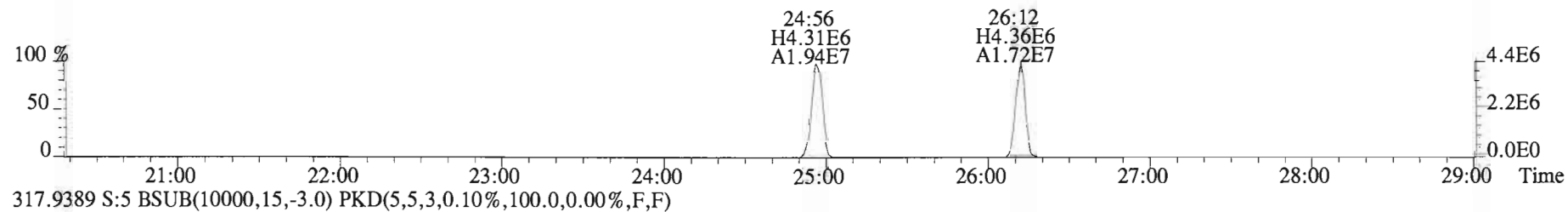
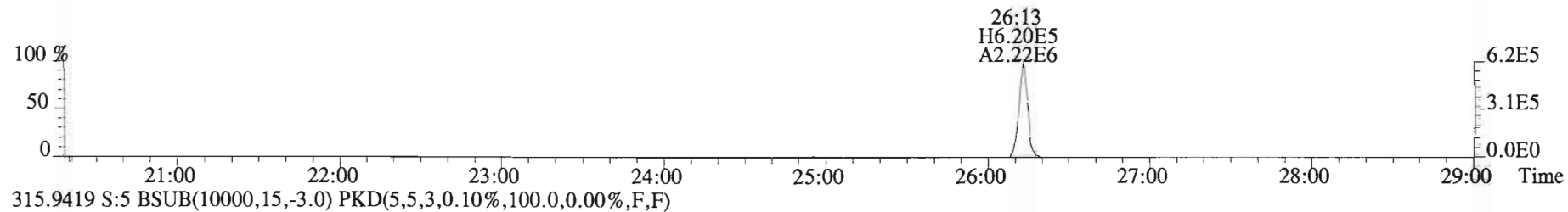
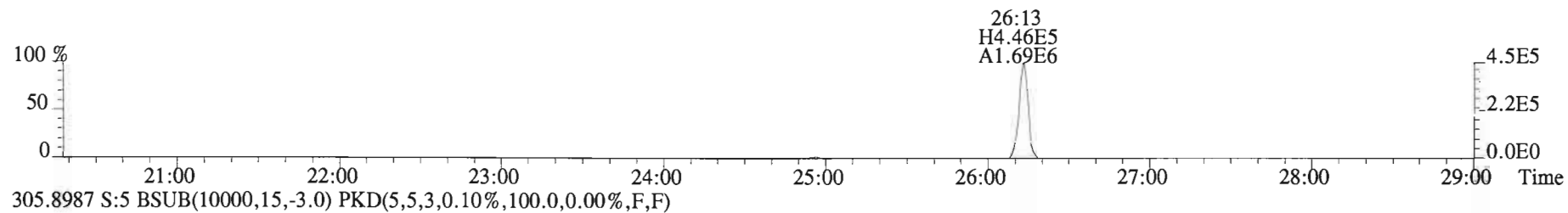
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



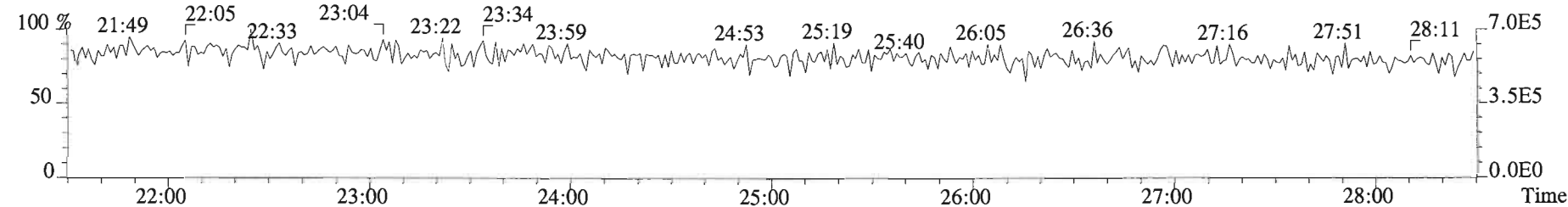
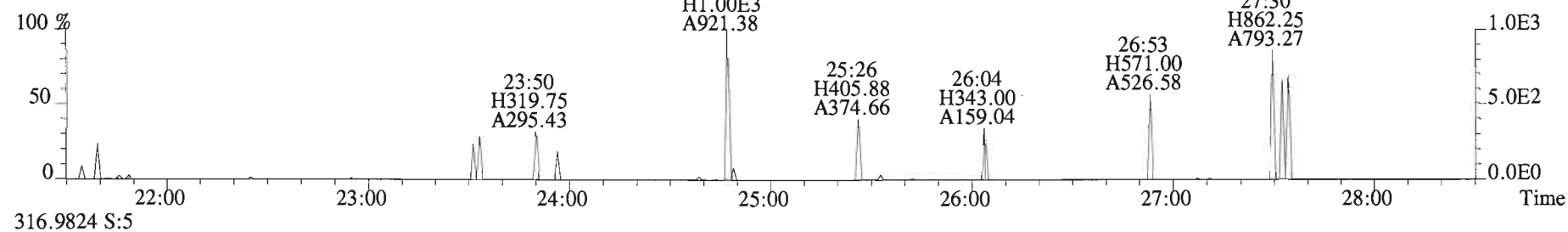
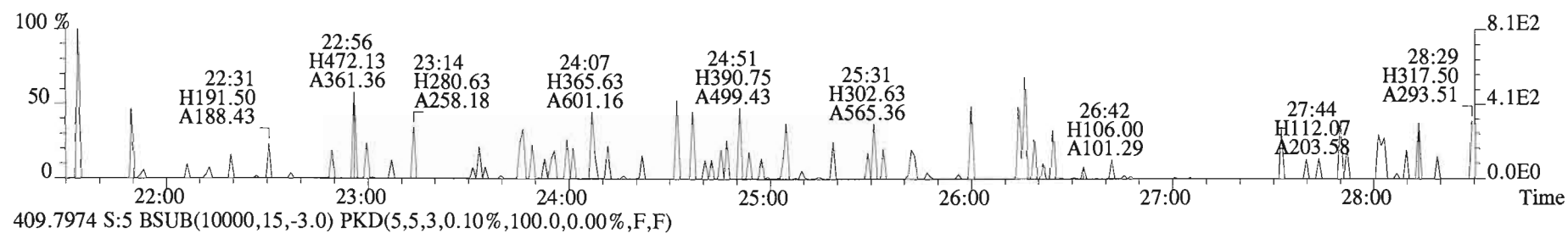
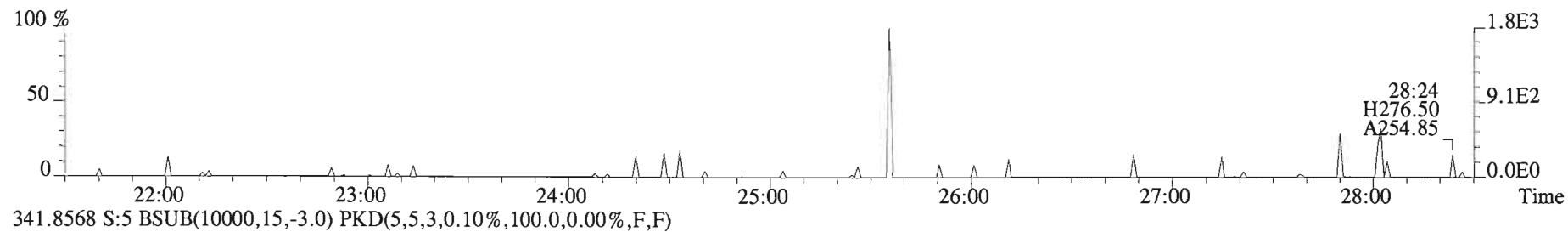
454.9728 S:5 F:5



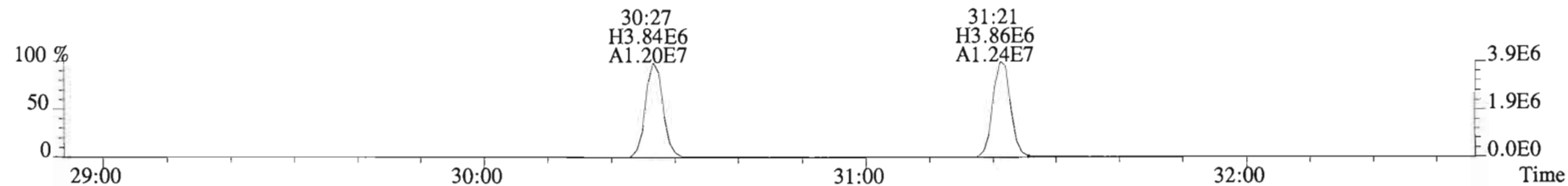
File:150219D1 #1-552 Acq:19-FEB-2015 15:12:41 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BS1 OPR 10 Exp:OCDD_DB5
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



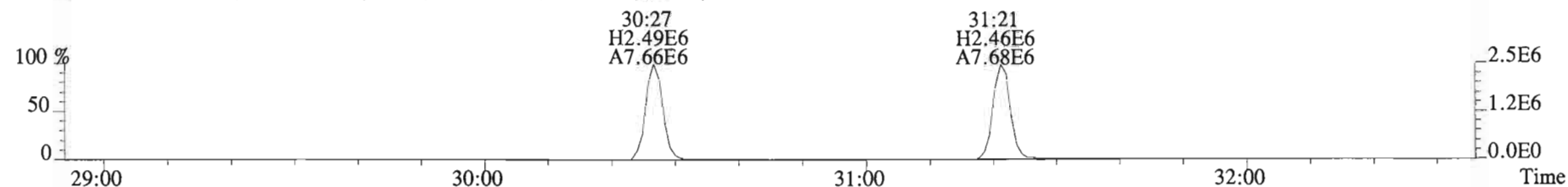
File:150219D1 #1-552 Acq:19-FEB-2015 15:12:41 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BS1 OPR 10 Exp:OCDD_DB5
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



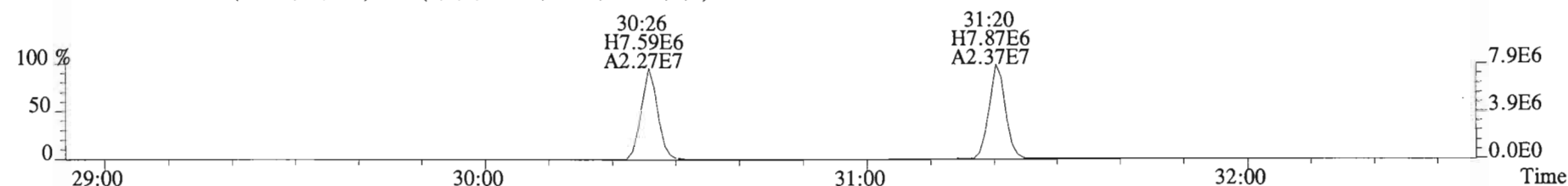
File:150219D1 #1-250 Acq:19-FEB-2015 15:12:41 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BS1 OPR 10 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



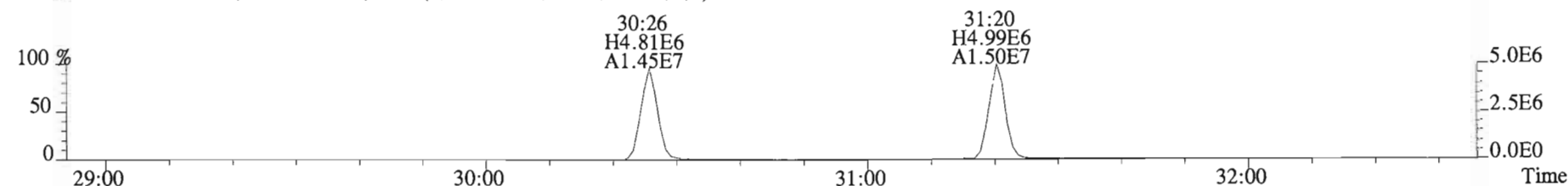
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



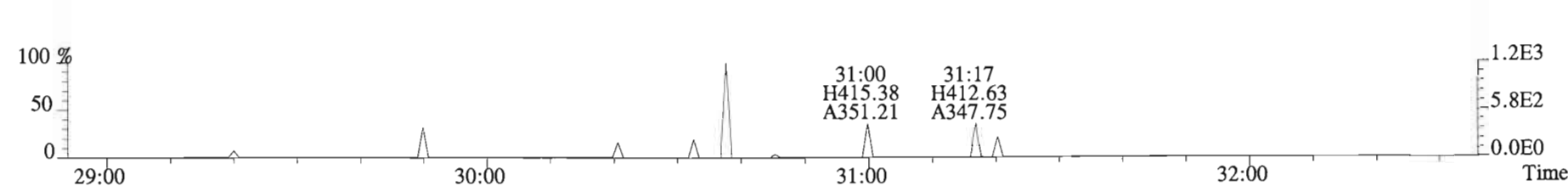
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



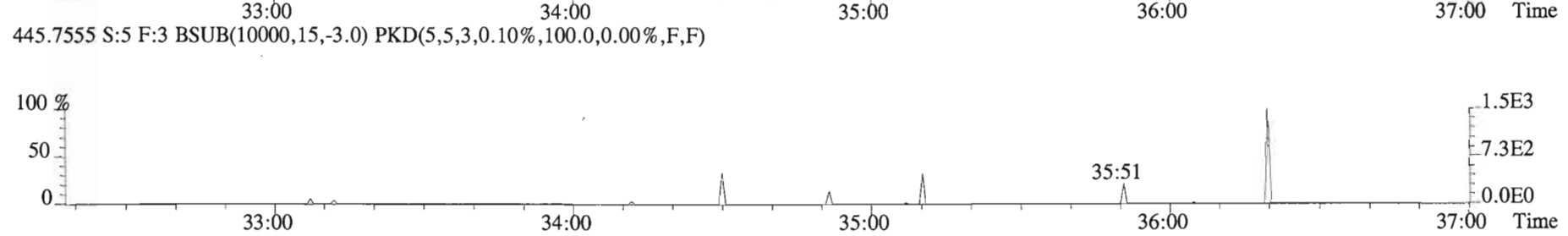
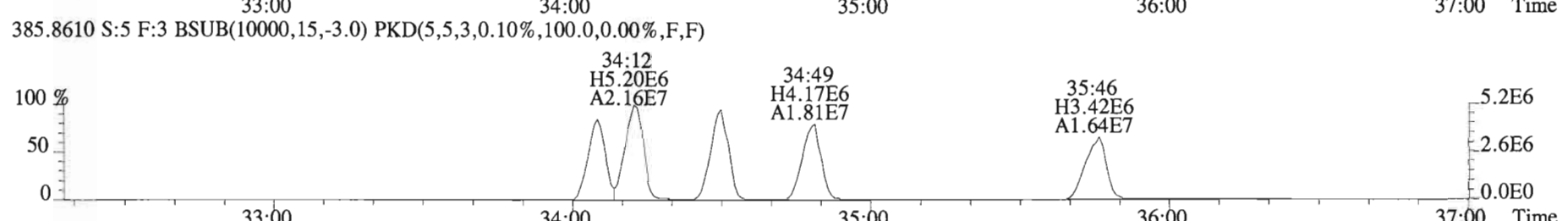
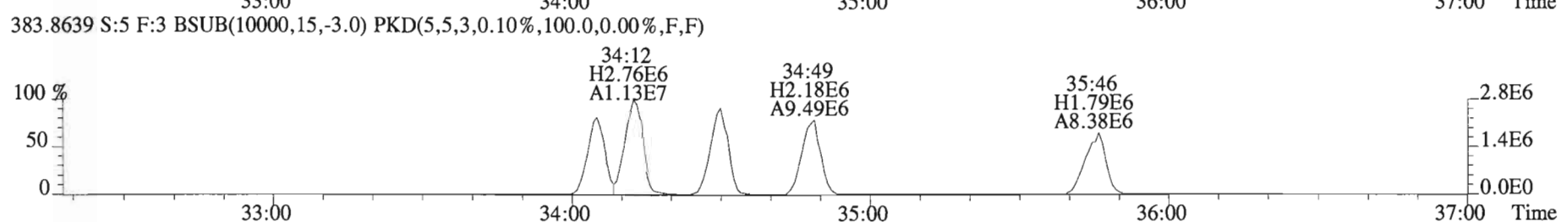
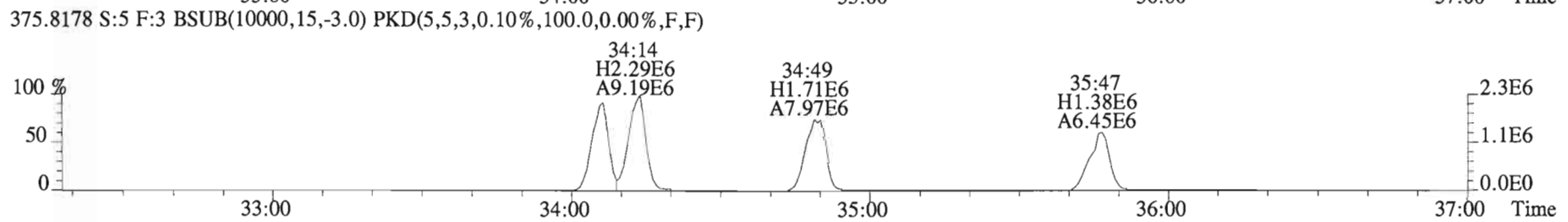
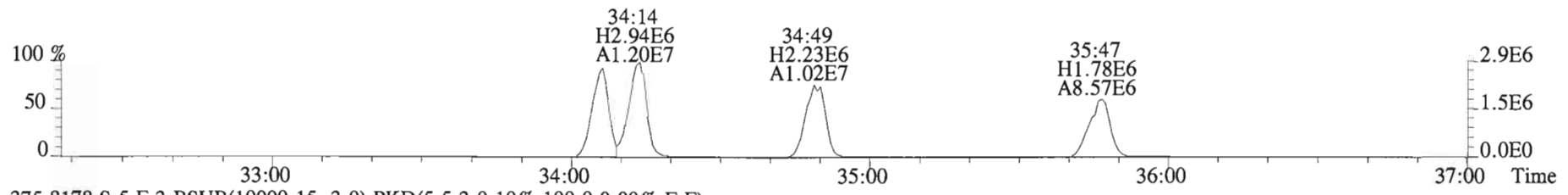
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



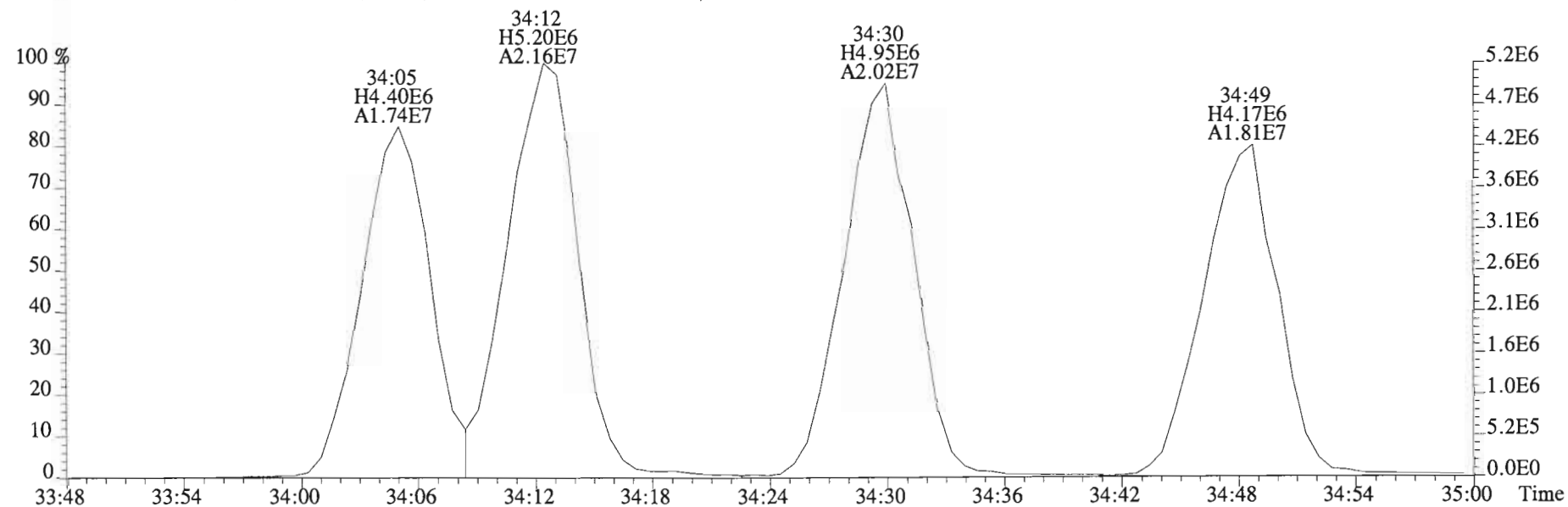
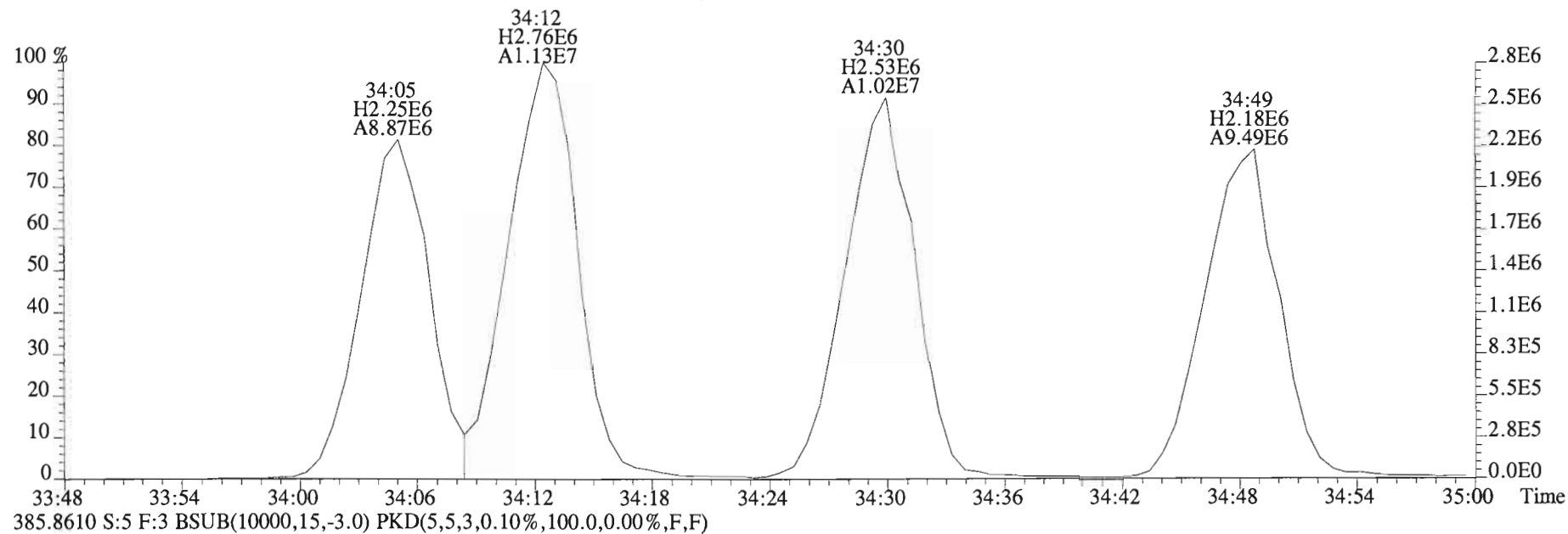
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



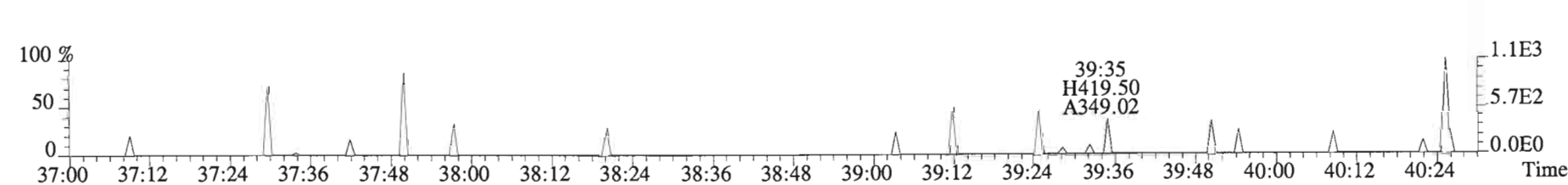
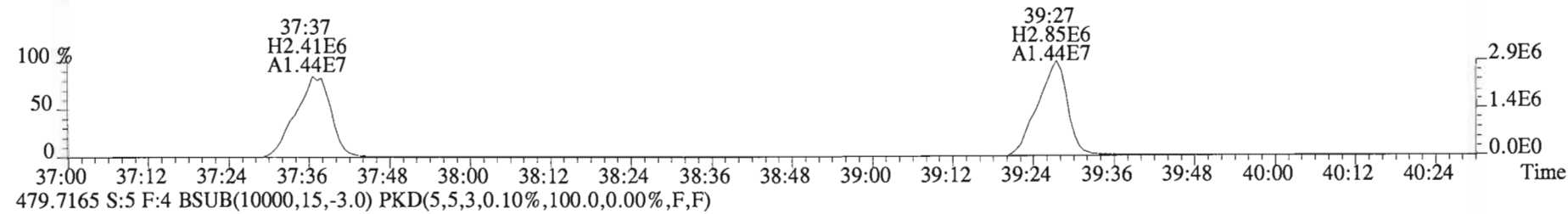
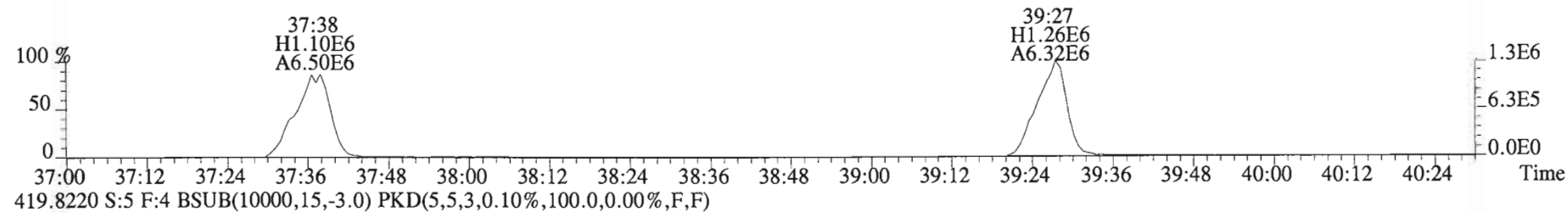
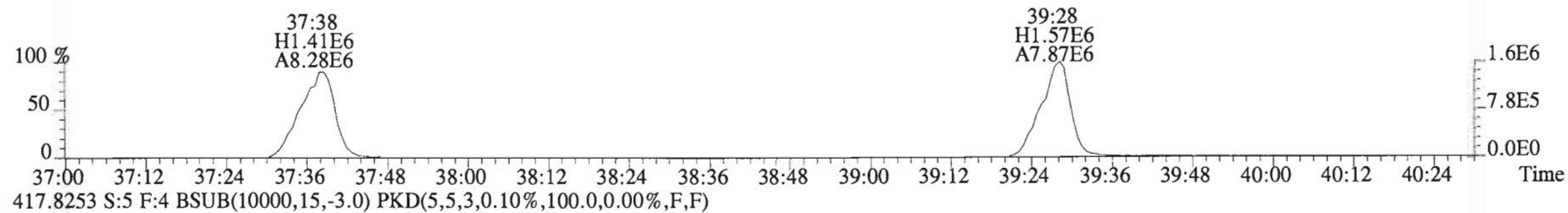
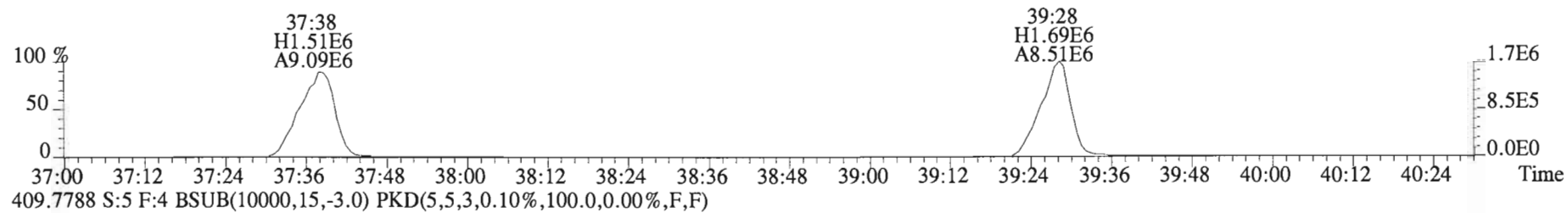
File:150219D1 #1-393 Acq:19-FEB-2015 15:12:41 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BS1 OPR 10 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



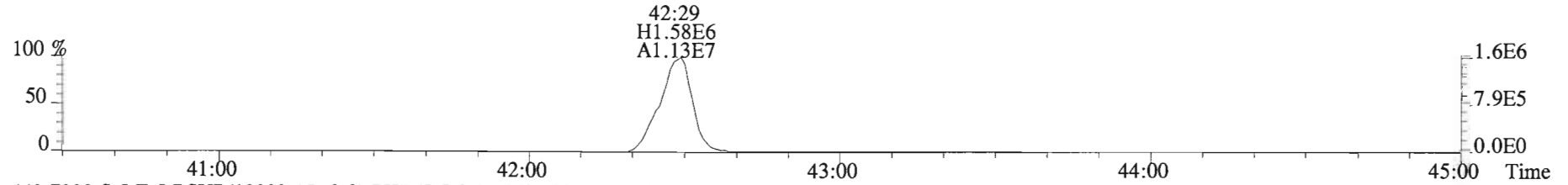
File:150219D1 #1-393 Acq:19-FEB-2015 15:12:41 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BS1 OPR 10 Exp:OCDD_DB5
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



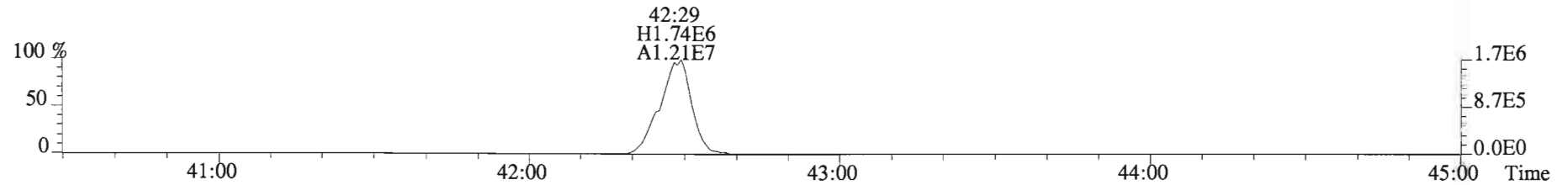
File:150219D1 #1-325 Acq:19-FEB-2015 15:12:41 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BS1 OPR_10 Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



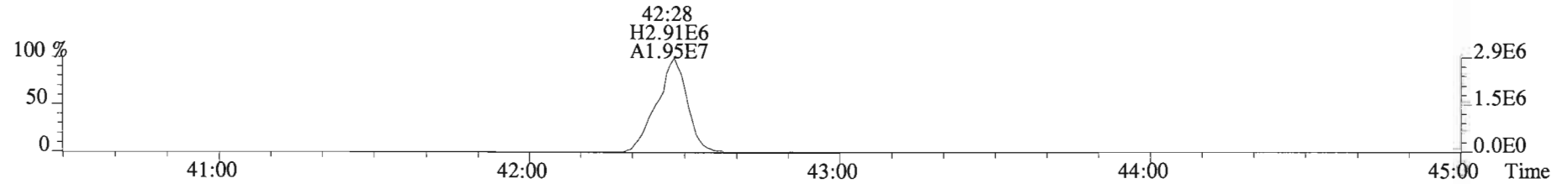
File:150219D1 #1-389 Acq:19-FEB-2015 15:12:41 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:B5B0068-BS1 OPR 10 Exp:OCDD_DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



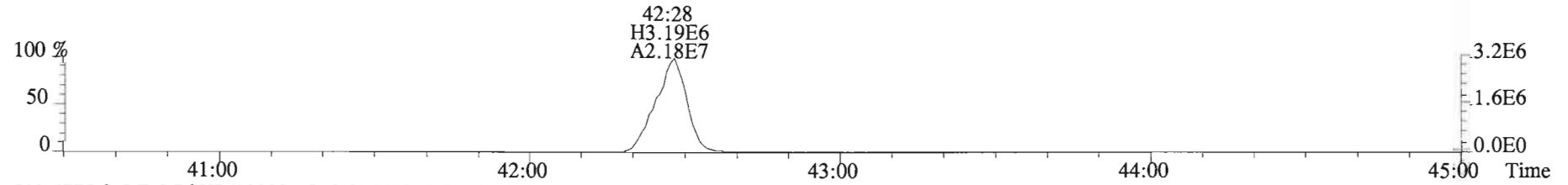
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



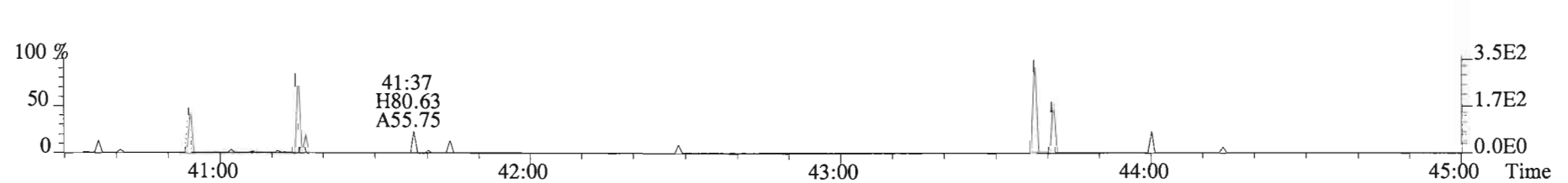
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)



Client ID: ST-CB-08-20150210-S
Lab ID: 1500166-04

Filename: 150220D2 S:4 Acq:21-FEB-15 03:31:49
GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15

wt/vol:10.007

ConCal: ST150220D2-1
EndCAL: NA

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Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	3.60e+04	0.44 n	1.17	27:01	1.001	0.22847		*	2.5	*	Total Tetra-Dioxins	2.39	3.83	*	*	
1,2,3,7,8-PeCDD	1.77e+05	0.67 y	0.91	31:38	1.000	1.5092		*	2.5	*	Total Penta-Dioxins	15.0	15.5	*	*	
1,2,3,4,7,8-HxCDD	5.42e+05	1.10 y	1.08	34:59	1.000	5.1076		*	2.5	*	Total Hexa-Dioxins	381	381	*	*	
1,2,3,6,7,8-HxCDD	2.28e+06	1.29 y	1.06	35:05	1.000	23.674		*	2.5	*	Total Hepta-Dioxins	3990	3990	*	*	
1,2,3,7,8,9-HxCDD	9.49e+05	1.26 y	0.93	35:24	1.001	9.0109		*	2.5	*	Total Tetra-Furans	17.8	17.9	*	*	
1,2,3,4,6,7,8-HpCDD	9.37e+07	1.02 y	1.10	38:56	1.000	922.44		*	2.5	*	Total Penta-Furans	44.053	44.053	*	*	
OCDD	7.89e+08	0.89 y	0.95	42:18	1.000	10240		*	2.5	*	Total Hexa-Furans	152	152	*	*	
											Total Hepta-Furans	377	377	*	*	
2,3,7,8-TCDF	2.70e+05	0.83 y	1.07	26:11	1.000	1.2904(1.1)		*	2.5	*						
1,2,3,7,8-PeCDF	3.32e+05	1.60 y	1.07	30:26	1.001	1.6807		*	2.5	*						
2,3,4,7,8-PeCDF	4.26e+05	1.73 y	1.03	31:20	1.000	2.2140		*	2.5	*						
1,2,3,4,7,8-HxCDF	1.19e+06	1.26 y	1.38	34:06	1.001	6.4640		*	2.5	*						
1,2,3,6,7,8-HxCDF	6.30e+05	1.26 y	1.26	34:13	1.000	3.2894		*	2.5	*						
2,3,4,6,7,8-HxCDF	9.11e+05	1.30 y	1.29	34:49	1.001	5.1359		*	2.5	*						
1,2,3,7,8,9-HxCDF	5.95e+04	1.20 y	1.19	35:45	1.000	0.42752		*	2.5	*						
1,2,3,4,6,7,8-HpCDF	1.39e+07	1.08 y	1.61	37:38	1.000	91.961		*	2.5	*						
1,2,3,4,7,8,9-HpCDF	8.82e+05	1.09 y	1.53	39:28	1.000	6.5262		*	2.5	*						
OCDF	3.63e+07	0.91 y	1.10	42:30	1.000	370.27		*	2.5	*						
											Rec	Qual				
IS 13C-2,3,7,8-TCDD	2.69e+07	0.80 y	1.06	26:60	1.022	183.99					92.1					
IS 13C-1,2,3,7,8-PeCDD	2.58e+07	0.60 y	1.18	31:37	1.197	158.68					79.4					
IS 13C-1,2,3,4,7,8-HxCDD	1.97e+07	1.22 y	0.72	34:59	1.014	177.67					88.9					
IS 13C-1,2,3,6,7,8-HxCDD	1.81e+07	1.25 y	0.74	35:05	1.017	159.68					79.9					
IS 13C-1,2,3,7,8,9-HxCDD	2.26e+07	1.25 y	0.85	35:23	1.026	172.40					86.3					
IS 13C-1,2,3,4,6,7,8-HpCDD	1.84e+07	1.06 y	0.65	38:55	1.128	183.03					91.6					
IS 13C-OCDD	3.25e+07	0.89 y	0.76	42:17	1.226	276.77					69.2					
IS 13C-2,3,7,8-TCDF	3.91e+07	0.77 y	0.92	26:11	0.991	197.63					98.9					
IS 13C-1,2,3,7,8-PeCDF	3.67e+07	1.58 y	0.92	30:25	1.151	185.10					92.6					
IS 13C-2,3,4,7,8-PeCDF	3.73e+07	1.61 y	0.93	31:19	1.186	185.85					93.0					
IS 13C-1,2,3,4,7,8-HxCDF	2.66e+07	0.52 y	0.98	34:05	0.988	176.81					88.5					
IS 13C-1,2,3,6,7,8-HxCDF	3.04e+07	0.52 y	1.08	34:12	0.992	182.90					91.5					
IS 13C-2,3,4,6,7,8-HxCDF	2.75e+07	0.51 y	1.03	34:48	1.009	174.41					87.3					
IS 13C-1,2,3,7,8,9-HxCDF	2.35e+07	0.50 y	0.86	35:45	1.036	177.35					88.7					
IS 13C-1,2,3,4,6,7,8-HpCDF	1.87e+07	0.44 y	0.72	37:37	1.091	168.85					84.5					
IS 13C-1,2,3,4,7,8,9-HpCDF	1.77e+07	0.45 y	0.70	39:27	1.144	165.26					82.7					
IS 13C-OCDF	3.57e+07	0.88 y	0.85	42:29	1.232	273.36					68.4					
C/Up 37C1-2,3,7,8-TCDD	1.25e+07		1.12	27:01	1.022	81.342					102					
RS/RT 13C-1,2,3,4-TCDD	2.76e+07	0.81 y	1.00	26:25	*	199.85										
RS 13C-1,2,3,4-TCDF	4.30e+07	0.75 y	1.00	24:56	*	199.85										
RS/RT 13C-1,2,3,4,6,9-HxCDF	3.07e+07	0.52 y	1.00	34:30	*	199.85										

Integrations Reviewed
by Analyst: MS by Analyst: [Signature]
Date: 2/23/15 Date: 2/24/15

Totals class: TCDD EMPC

Entry #: 19

Run: 9 File: 150220D2 S: 4 I: 1 F: 1
 Acquired: 21-FEB-15 03:31:49 Processed: 21-FEB-15 08:16:17

Total Concentration: 3.8309

Unnamed Concentration: 3.602

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
23:28	7.387e+04	9.451e+04	0.78 y	1.684e+05	1.0674
23:51	4.237e+04	5.958e+04	0.71 y	1.019e+05	0.64629
24:18	1.162e+04	1.259e+04	0.92 n	2.229e+04	0.14129
25:04	1.166e+04	1.539e+04	0.76 y	2.705e+04	0.17149
25:18	2.608e+04	2.855e+04	0.91 n	5.053e+04	0.32035
25:28	2.322e+04	3.873e+04	0.60 n	5.337e+04	0.33832
25:39	7.240e+03	1.067e+04	0.68 y	1.791e+04	0.11356
25:53	6.881e+03	5.729e+03	1.20 n	1.014e+04	0.064280
26:04	1.014e+04	1.316e+04	0.77 y	2.329e+04	0.14766
26:26	1.683e+04	2.213e+04	0.76 y	3.896e+04	0.24698
26:45	2.323e+04	2.254e+04	1.03 n	3.989e+04	0.25288
27:01	1.568e+04	3.565e+04	0.44 n	3.604e+04	0.22847
27:18	6.308e+03	1.662e+04	0.38 n	1.450e+04	0.091921

2,3,7,8-TCDD

Totals class: PeCDD EMPC

Entry #: 21

Run: 9 File: 150220D2 S: 4 I: 1 F: 2
 Acquired: 21-FEB-15 03:31:49 Processed: 21-FEB-15 08:16:17

Total Concentration: 15.516 Unnamed Concentration: 14.007

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name	
29:32	1.535e+05	2.523e+05	0.61 y	4.058e+05	3.4617	
29:59	1.050e+05	1.640e+05	0.64 y	2.690e+05	2.2951	
30:26	7.994e+04	1.164e+05	0.69 y	1.963e+05	1.6747	
30:37	8.739e+04	1.297e+05	0.67 y	2.171e+05	1.8520	
30:42	4.711e+04	7.846e+04	0.60 y	1.256e+05	1.0711	
30:55	1.034e+05	1.732e+05	0.60 y	2.766e+05	2.3595	
31:13	2.613e+04	3.392e+04	0.77 n	5.528e+04	0.47159	
31:38	7.117e+04	1.058e+05	0.67 y	1.769e+05	1.5092	1,2,3,7,8-PeCDD
31:43	1.227e+04	2.229e+04	0.55 y	3.456e+04	0.29478	
32:00	2.256e+04	3.919e+04	0.58 y	6.175e+04	0.52676	

Totals class: HxCDD EMPC

Entry #: 23

Run: 9 File: 150220D2 S: 4 I: 1 F: 3
 Acquired: 21-FEB-15 03:31:49 Processed: 21-FEB-15 08:16:17

Total Concentration: 380.86 Unnamed Concentration: 343.065

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Concentration	Name
33:27	1.016e+07	8.152e+06	1.25 y	1.831e+07	178.59	
34:01	8.968e+05	7.203e+05	1.24 y	1.617e+06	15.768	
34:16	6.868e+06	5.485e+06	1.25 y	1.235e+07	120.46	
34:24	1.249e+06	9.938e+05	1.26 y	2.243e+06	21.868	
34:59	2.831e+05	2.584e+05	1.10 y	5.415e+05	5.1076	1,2,3,4,7,8-HxCDD
35:05	1.283e+06	9.949e+05	1.29 y	2.278e+06	23.674	1,2,3,6,7,8-HxCDD
35:18	3.692e+05	2.846e+05	1.30 y	6.537e+05	6.3748	
35:24	5.285e+05	4.203e+05	1.26 y	9.487e+05	9.0109	1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC

Entry #: 25

Run: 9 File: 150220D2 S: 4 I: 1 F: 4
Acquired: 21-FEB-15 03:31:49 Processed: 21-FEB-15 08:16:17

Total Concentration: 3990.3

Unnamed Concentration: 3067.868

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
38:03	1.583e+08	1.532e+08	1.03 y	3.116e+08	3067.9
38:56	4.740e+07	4.628e+07	1.02 y	9.368e+07	922.44 1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC

Entry #: 27

Run: 9 File: 150220D2 S: 4 I: 1 F: 1
 Acquired: 21-FEB-15 03:31:49 Processed: 21-FEB-15 08:16:17

Total Concentration: 17.857

Unnamed Concentration: 16.567

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
21:18	2.234e+04	3.217e+04	0.69	y	5.451e+04	0.26032
21:51	5.253e+04	6.383e+04	0.82	y	1.164e+05	0.55563
22:28	1.842e+05	2.281e+05	0.81	y	4.123e+05	1.9689
23:02	1.650e+05	2.215e+05	0.75	y	3.865e+05	1.8456
23:26	1.570e+05	1.942e+05	0.81	y	3.513e+05	1.6775
23:53	1.006e+05	1.291e+05	0.78	y	2.297e+05	1.0968
24:01	4.832e+04	5.979e+04	0.81	y	1.081e+05	0.51625
24:11	7.210e+04	9.012e+04	0.80	y	1.622e+05	0.77467
24:33	1.960e+04	2.611e+04	0.75	y	4.571e+04	0.21830
24:41	4.413e+04	5.209e+04	0.85	y	9.622e+04	0.45947
24:49	1.155e+05	1.464e+05	0.79	y	2.619e+05	1.2506
24:57	1.046e+05	1.318e+05	0.79	y	2.364e+05	1.1289
25:23	9.355e+04	1.195e+05	0.78	y	2.131e+05	1.0174
25:38	4.139e+04	5.244e+04	0.79	y	9.383e+04	0.44807
25:49	3.099e+04	3.832e+04	0.81	y	6.931e+04	0.33096
26:00	5.747e+04	7.487e+04	0.77	y	1.323e+05	0.63195
26:06	3.486e+04	4.517e+04	0.77	y	8.003e+04	0.38218
26:11	1.222e+05	1.481e+05	0.83	y	2.702e+05	1.2904
26:33	1.240e+05	1.651e+05	0.75	y	2.891e+05	1.3804
26:47	9.146e+03	1.090e+04	0.84	y	2.005e+04	0.095740
27:35	1.117e+04	1.137e+04	0.98	n	2.013e+04	0.096113
27:45	9.036e+03	1.235e+04	0.73	y	2.138e+04	0.10211
28:02	2.964e+04	3.923e+04	0.76	y	6.886e+04	0.32884

2,3,7,8-TCDF

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 9 File: 150220D2 S: 4 I: 1 F: 1
Acquired: 21-FEB-15 03:31:49 Processed: 21-FEB-15 08:16:17

Total Concentration: 22.417 Unnamed Concentration: 22.417

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
28:01	2.671e+06	1.701e+06	1.57 y	4.372e+06	22.417

Totals class: PeCDF EMPC

Entry #: 31

Run: 9 File: 150220D2 S: 4 I: 1 F: 2
 Acquired: 21-FEB-15 03:31:49 Processed: 21-FEB-15 08:16:17

Total Concentration: 21.637

Unnamed Concentration: 17.742

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
29:22	1.529e+05	9.901e+04	1.54 y	2.519e+05	1.2915
29:29	9.293e+05	5.901e+05	1.57 y	1.519e+06	7.7897
29:51	2.522e+04	1.605e+04	1.57 y	4.127e+04	0.21157
30:03	3.443e+05	2.243e+05	1.53 y	5.686e+05	2.9151
30:15	8.601e+04	5.130e+04	1.68 y	1.373e+05	0.70398
30:26	2.044e+05	1.276e+05	1.60 y	3.320e+05	1.6807
30:40	2.749e+05	1.727e+05	1.59 y	4.476e+05	2.2948
31:14	6.957e+04	4.629e+04	1.50 y	1.159e+05	0.59400
31:20	2.703e+05	1.560e+05	1.73 y	4.263e+05	2.2140
31:23	1.992e+05	1.257e+05	1.58 y	3.249e+05	1.6657
32:15	3.347e+04	2.031e+04	1.65 y	5.378e+04	0.27571

1,2,3,7,8-PeCDF

2,3,4,7,8-PeCDF

Totals class: HxCDF EMPC

Entry #: 33

Run: 9 File: 150220D2 S: 4 I: 1 F: 3
 Acquired: 21-FEB-15 03:31:49 Processed: 21-FEB-15 08:16:17

Total Concentration: 151.54 Unnamed Concentration: 136.225

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
32:54	1.791e+06	1.351e+06	1.33 y	3.143e+06	18.152
33:04	4.593e+06	3.467e+06	1.32 y	8.060e+06	46.558
33:25	8.765e+04	7.737e+04	1.13 y	1.650e+05	0.95320
33:37	6.620e+06	5.154e+06	1.28 y	1.177e+07	68.007
34:00	1.004e+05	7.939e+04	1.26 y	1.798e+05	1.0387
34:06	6.651e+05	5.276e+05	1.26 y	1.193e+06	6.4640 1,2,3,4,7,8-HxCDF
34:13	3.506e+05	2.790e+05	1.26 y	6.296e+05	3.2894 1,2,3,6,7,8-HxCDF
34:49	5.143e+05	3.964e+05	1.30 y	9.107e+05	5.1359 2,3,4,6,7,8-HxCDF
35:45	3.248e+04	2.700e+04	1.20 y	5.947e+04	0.42752 1,2,3,7,8,9-HxCDF
35:48	1.461e+05	1.163e+05	1.26 y	2.624e+05	1.5158

Totals class: HpCDF EMPC

Entry #: 35

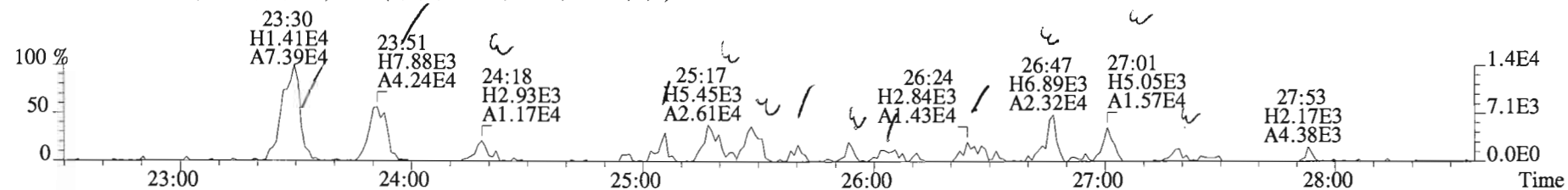
Run: 9 File: 150220D2 S: 4 I: 1 F: 4
Acquired: 21-FEB-15 03:31:49 Processed: 21-FEB-15 08:16:17

Total Concentration: 376.98

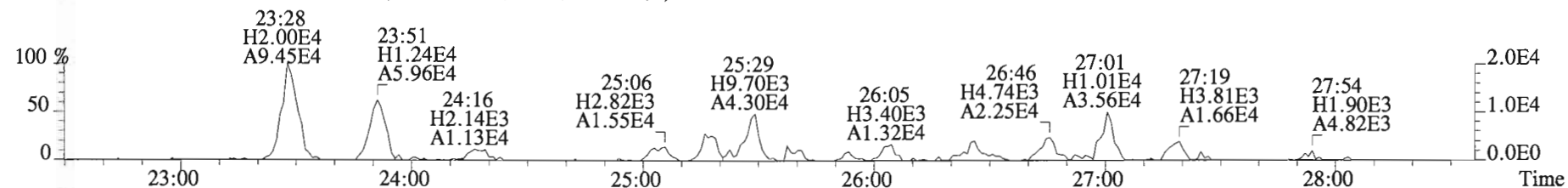
Unnamed Concentration: 278.493

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
37:38	7.223e+06	6.661e+06	1.08 y	1.388e+07	91.961	1,2,3,4,6,7,8-HpCDF
38:03	1.694e+05	1.481e+05	1.14 y	3.175e+05	2.2208	
38:15	2.051e+07	1.899e+07	1.08 y	3.950e+07	276.27	
39:28	4.593e+05	4.225e+05	1.09 y	8.818e+05	6.5262	1,2,3,4,7,8,9-HpCDF

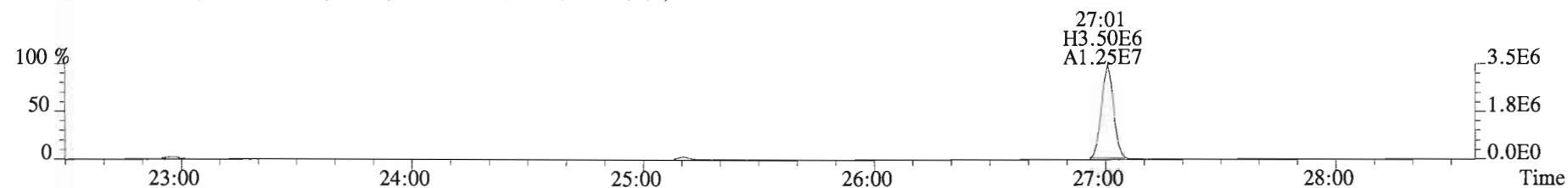
File:150220D2 #1-552 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



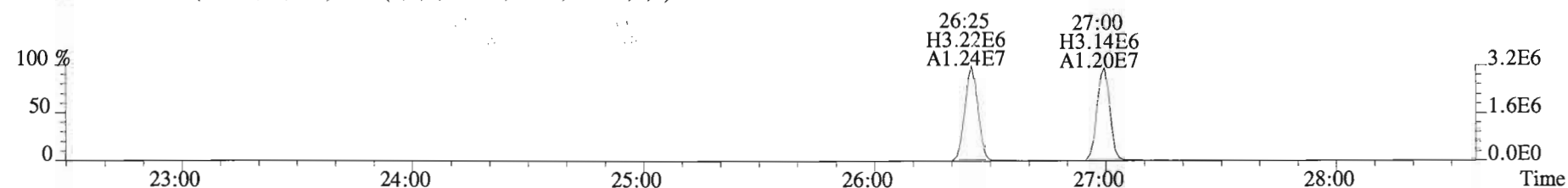
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



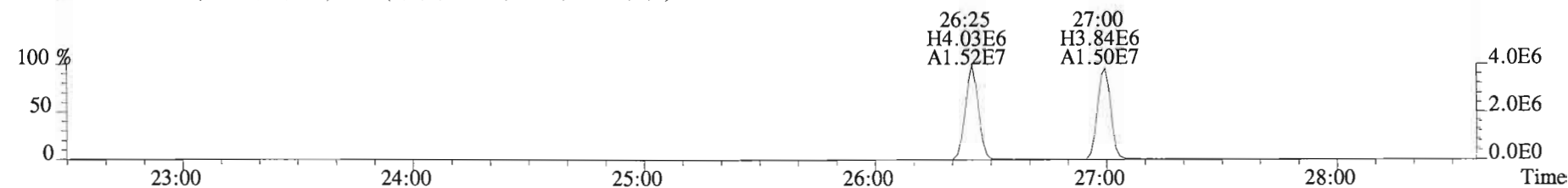
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



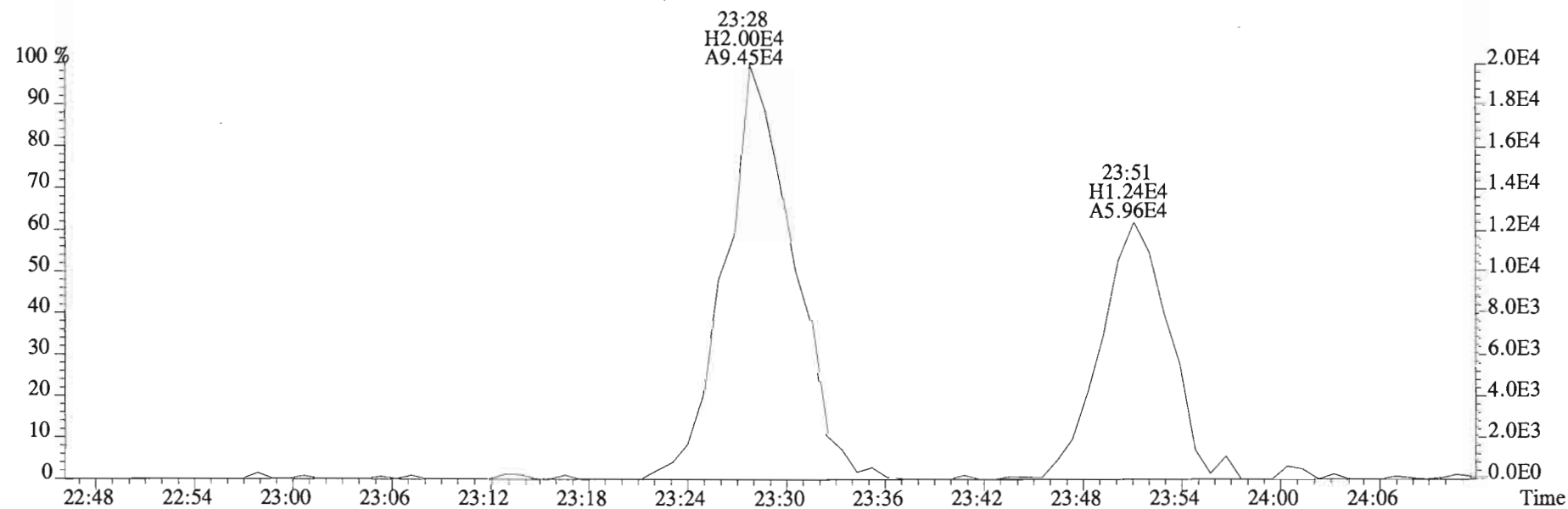
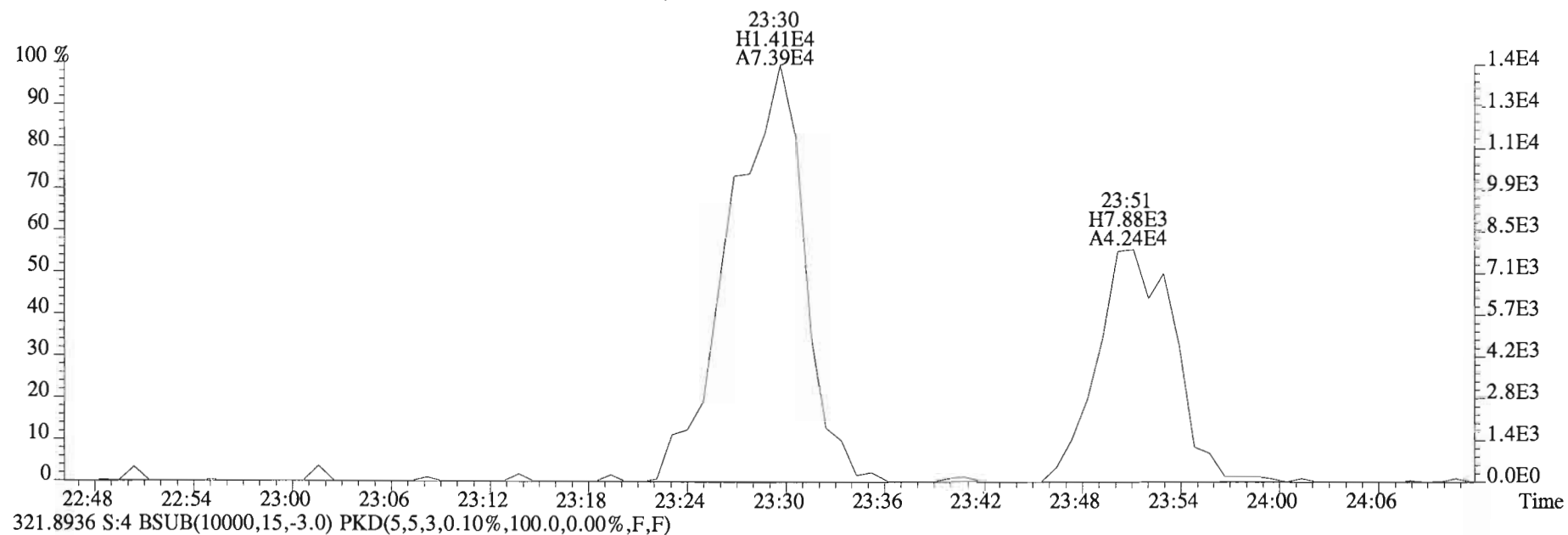
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



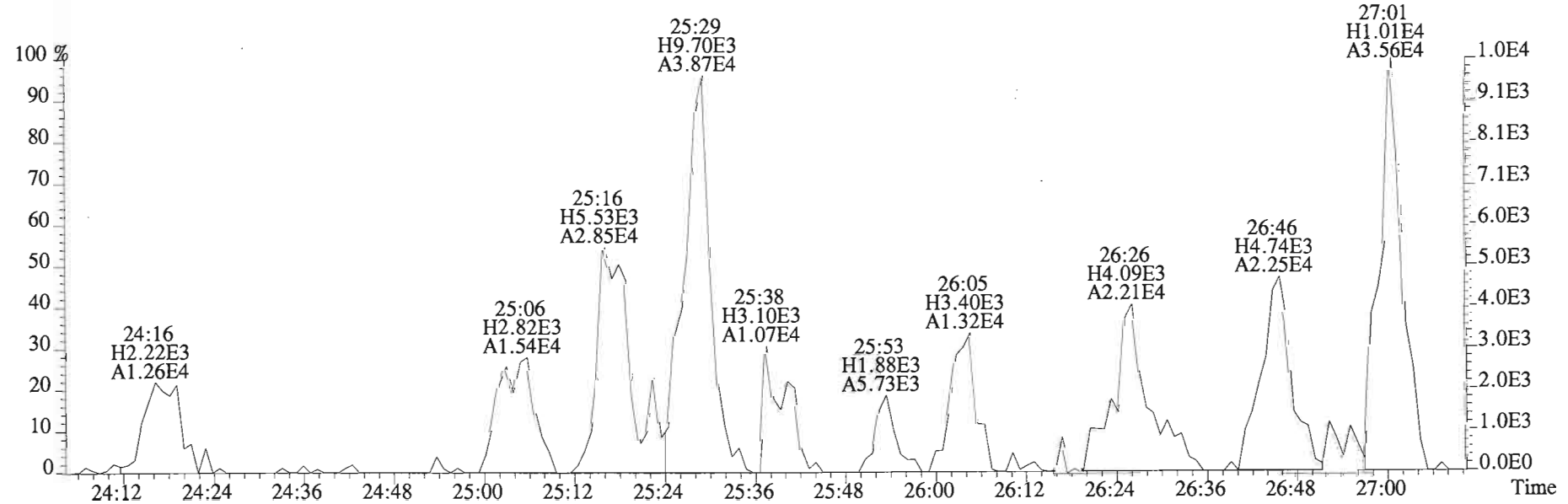
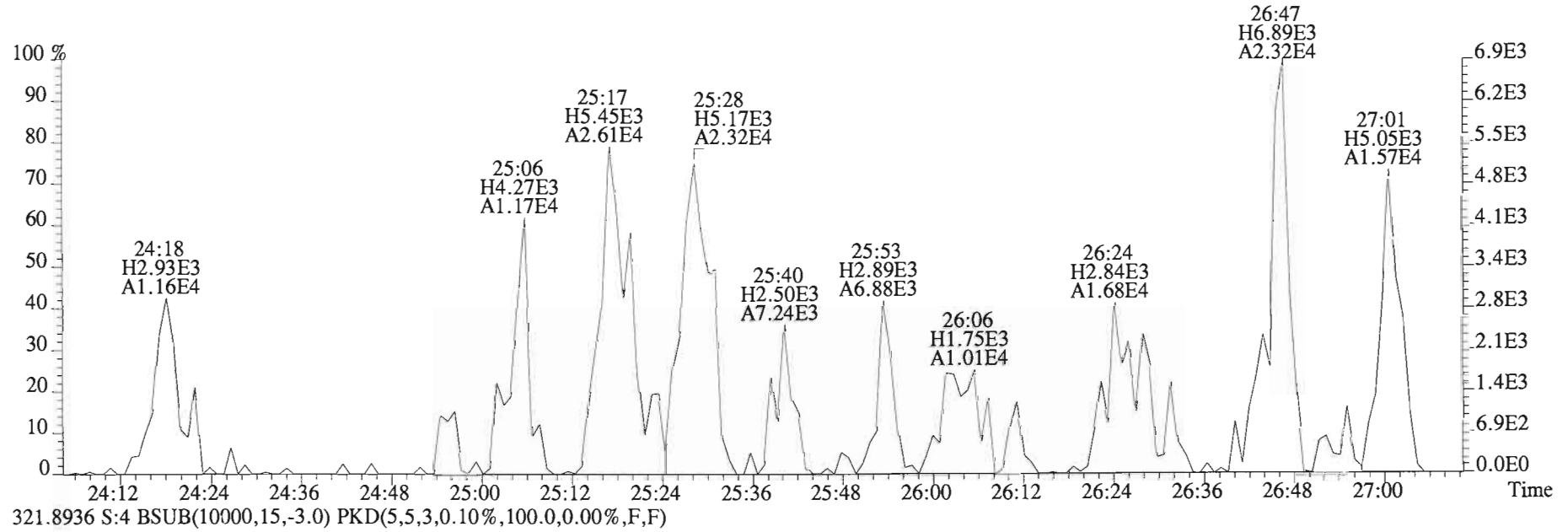
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



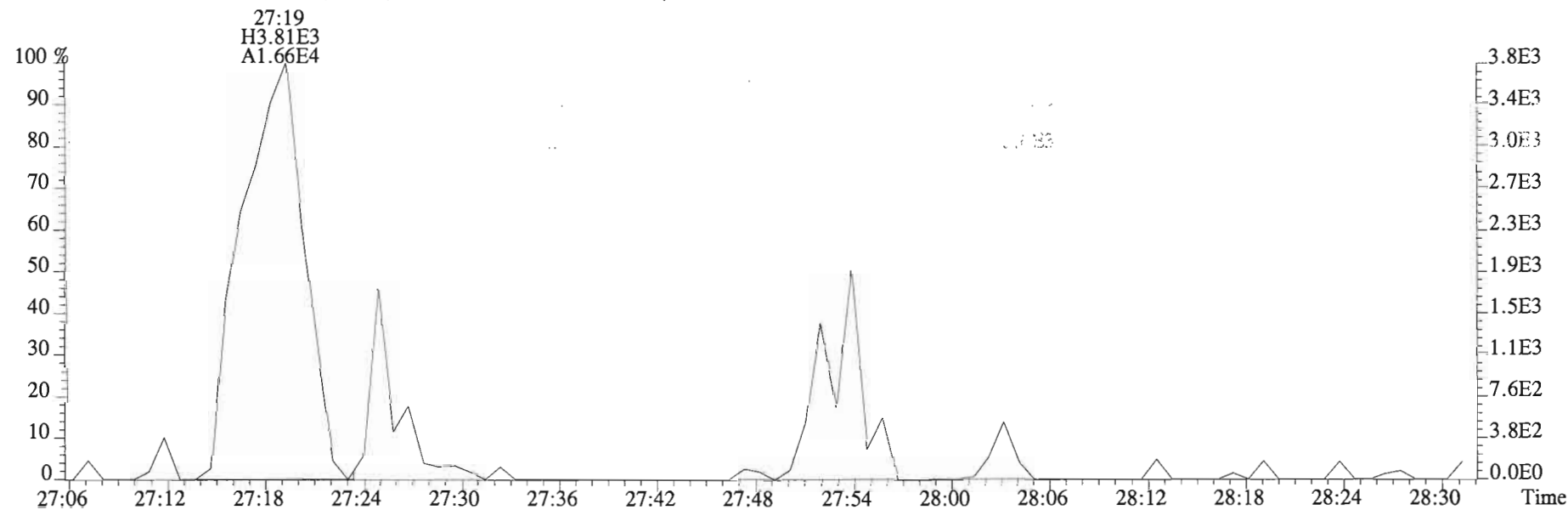
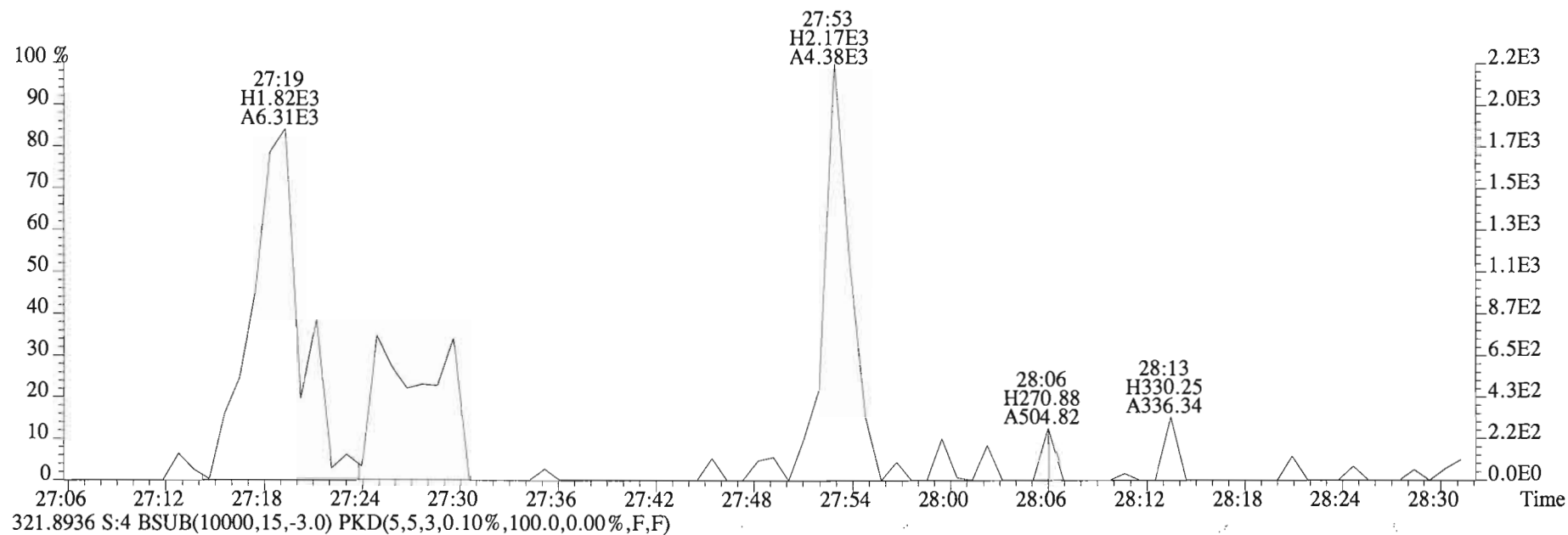
File:150220D2 #1-552 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



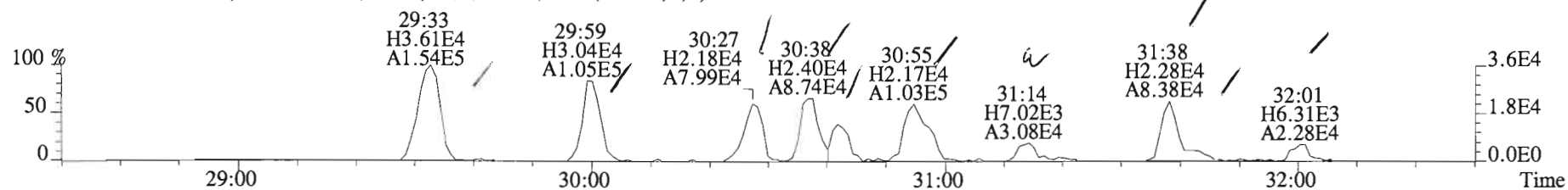
File:150220D2 #1-552 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



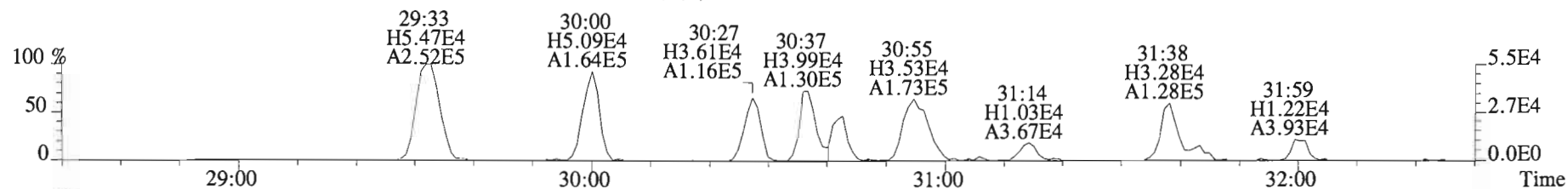
File:150220D2 #1-552 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



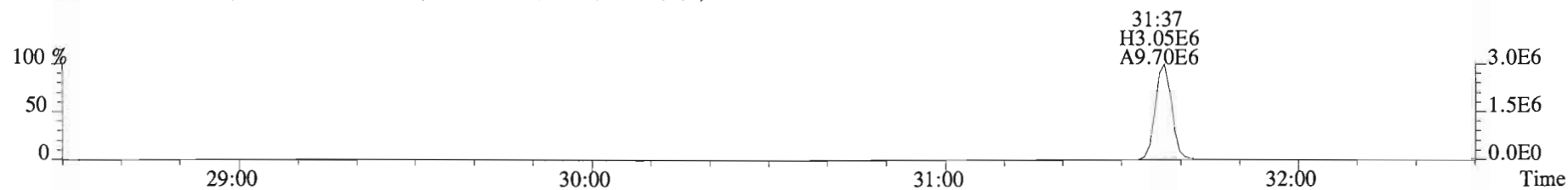
File:150220D2 #1-250 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
 353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



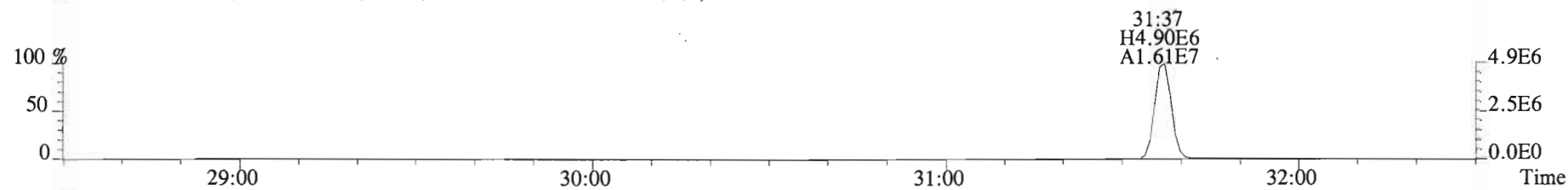
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



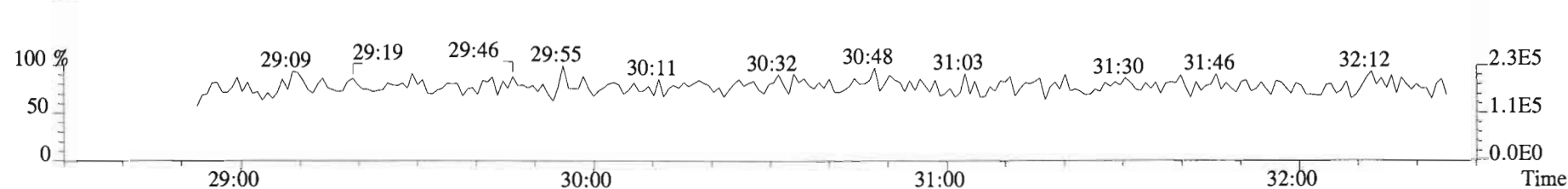
365.8978 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



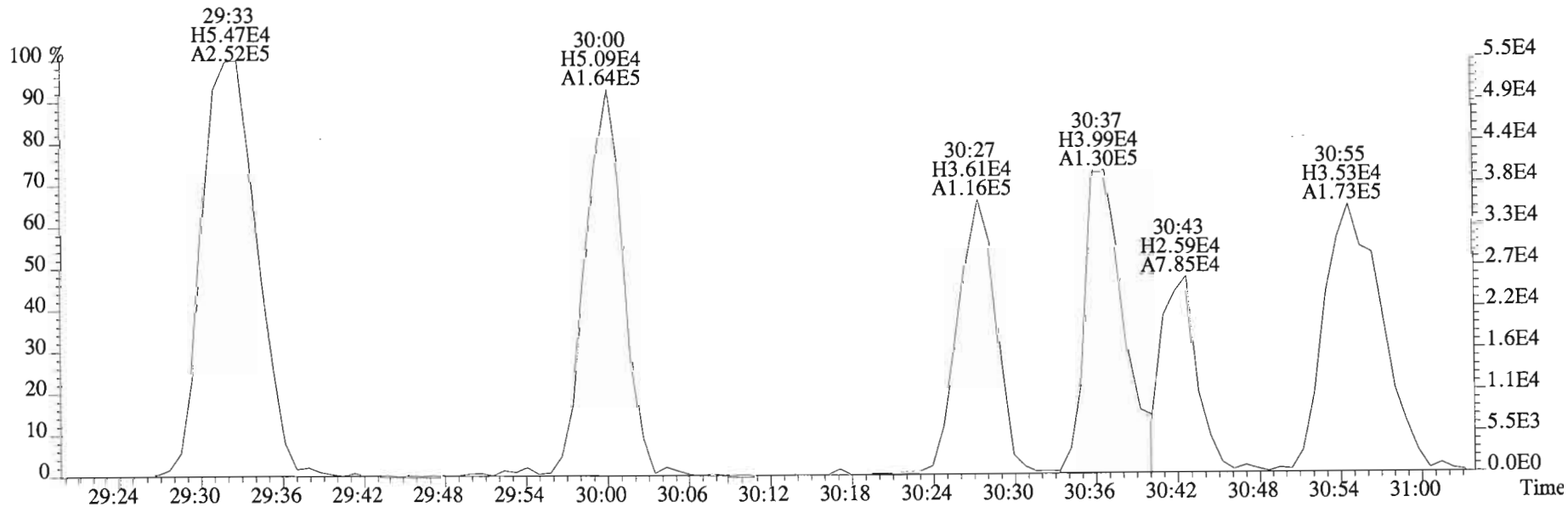
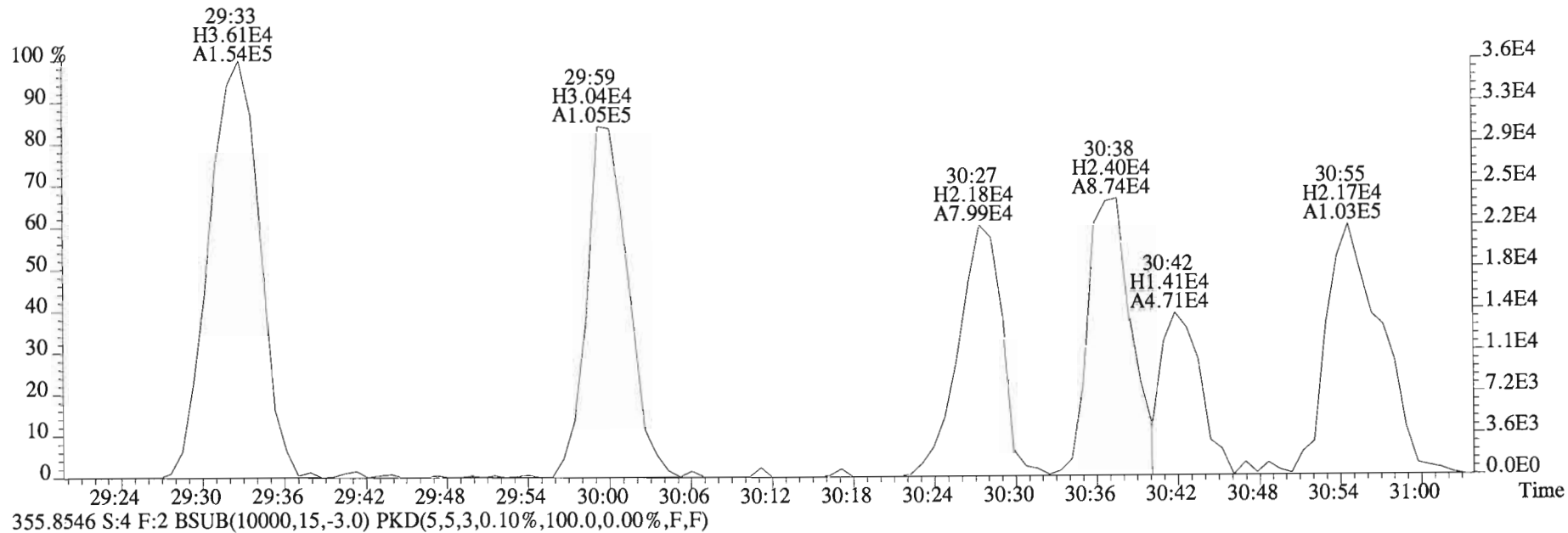
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



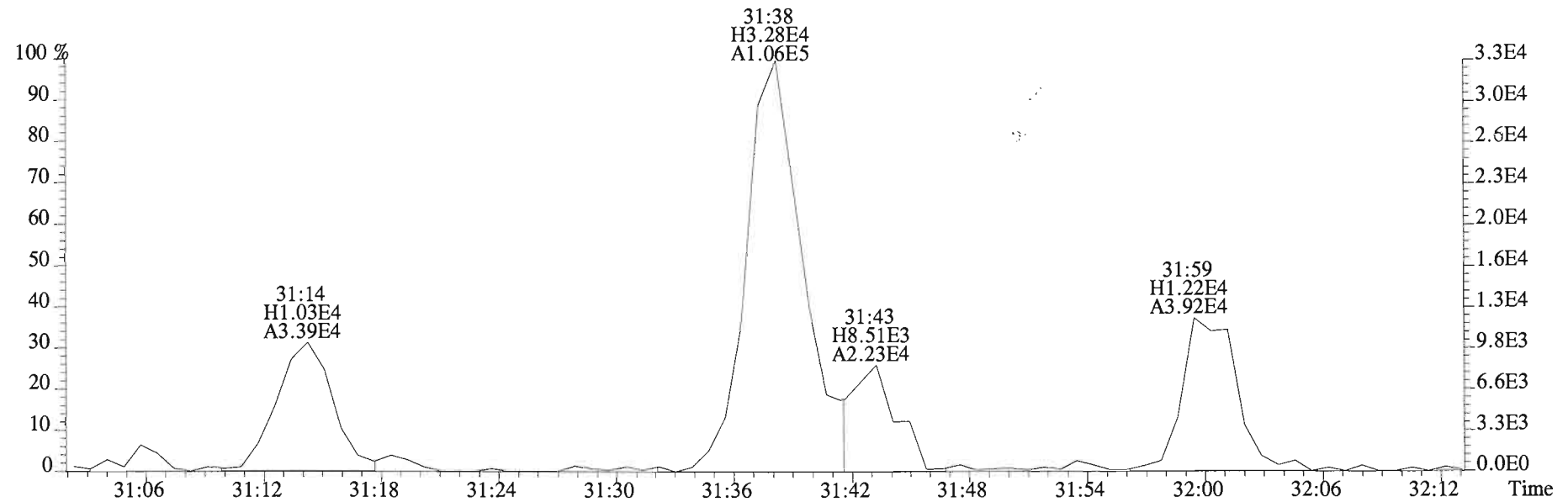
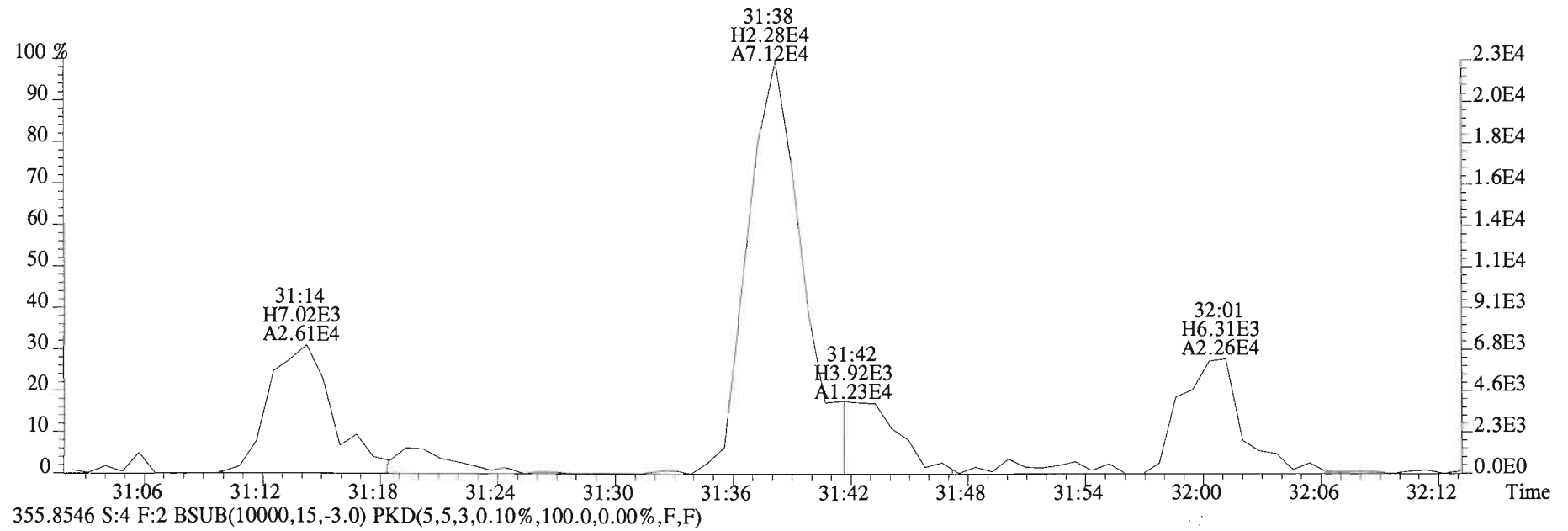
366.9792 S:4 F:2



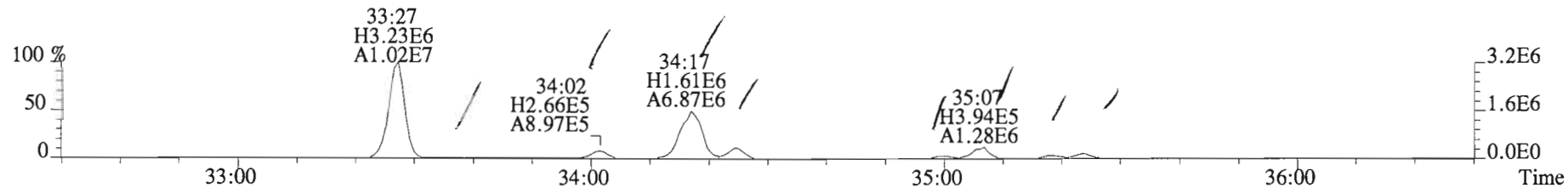
File:150220D2 #1-250 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
 353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



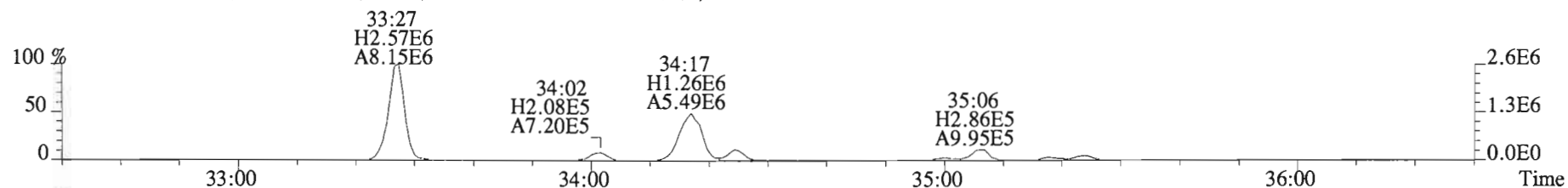
File:150220D2 #1-250 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



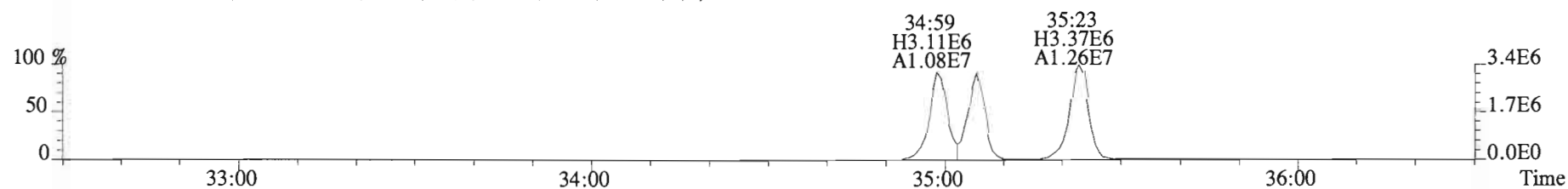
File:150220D2 #1-393 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
 389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



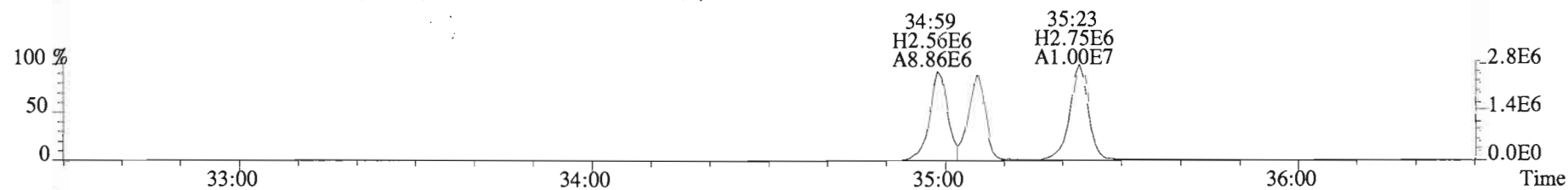
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



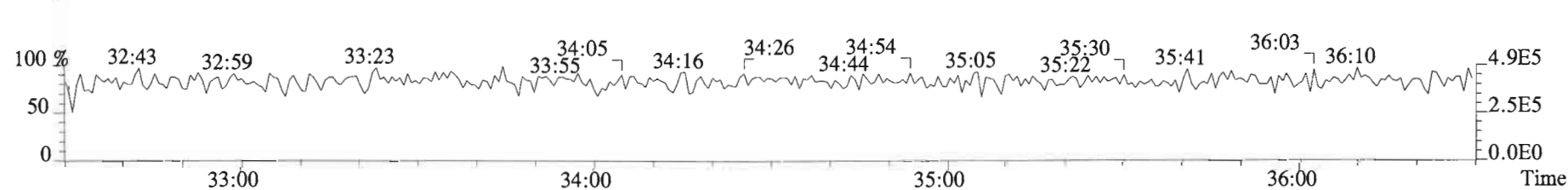
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



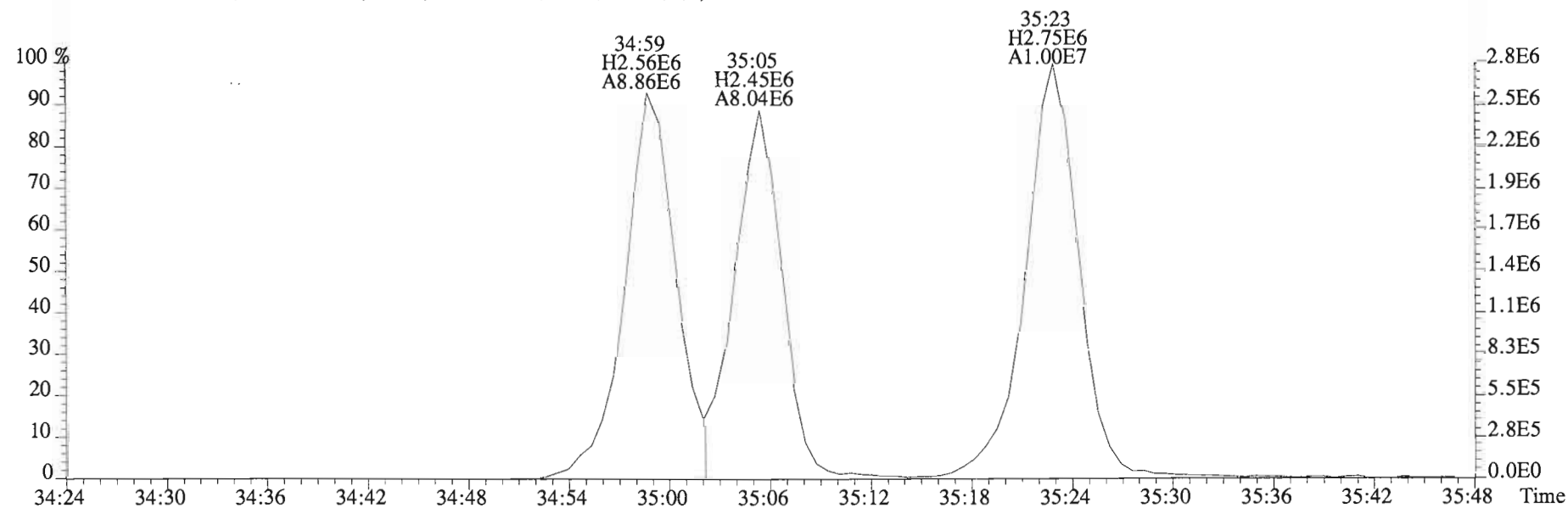
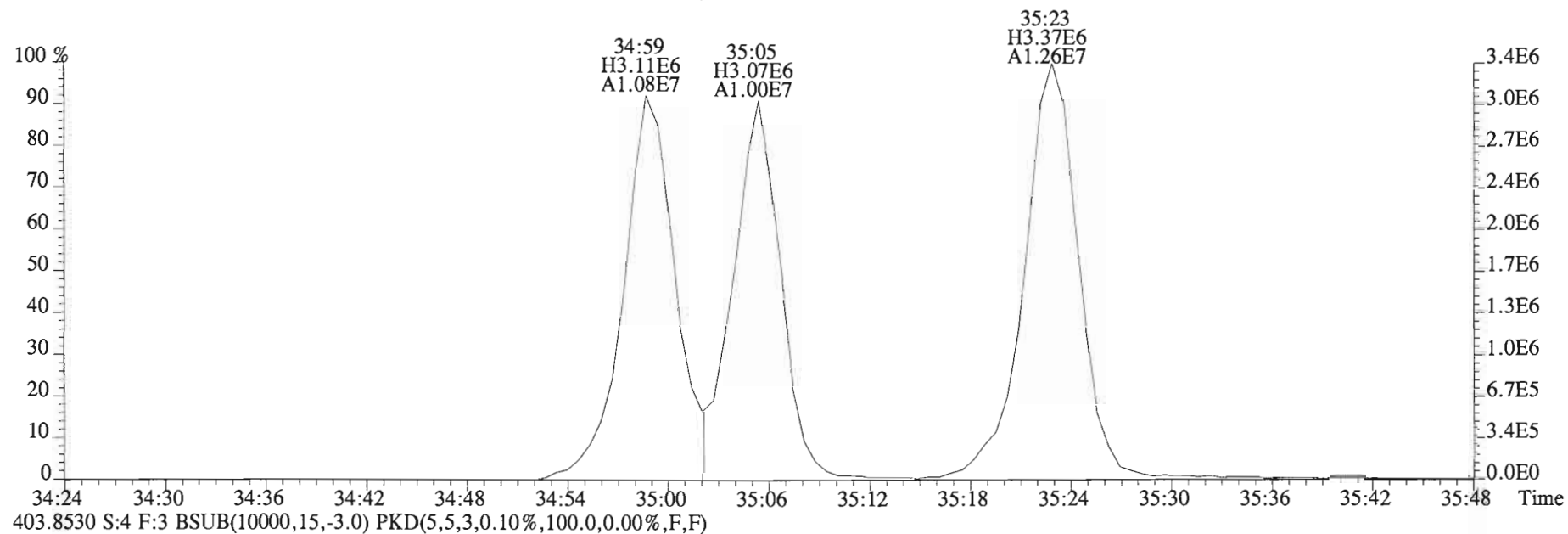
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



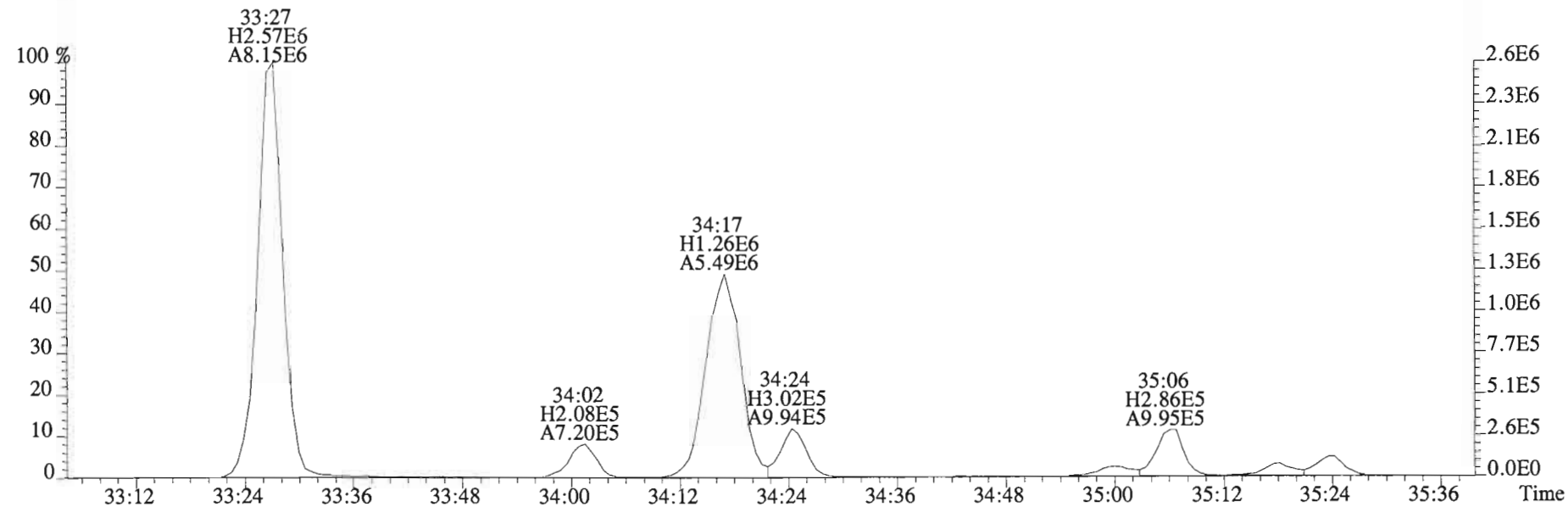
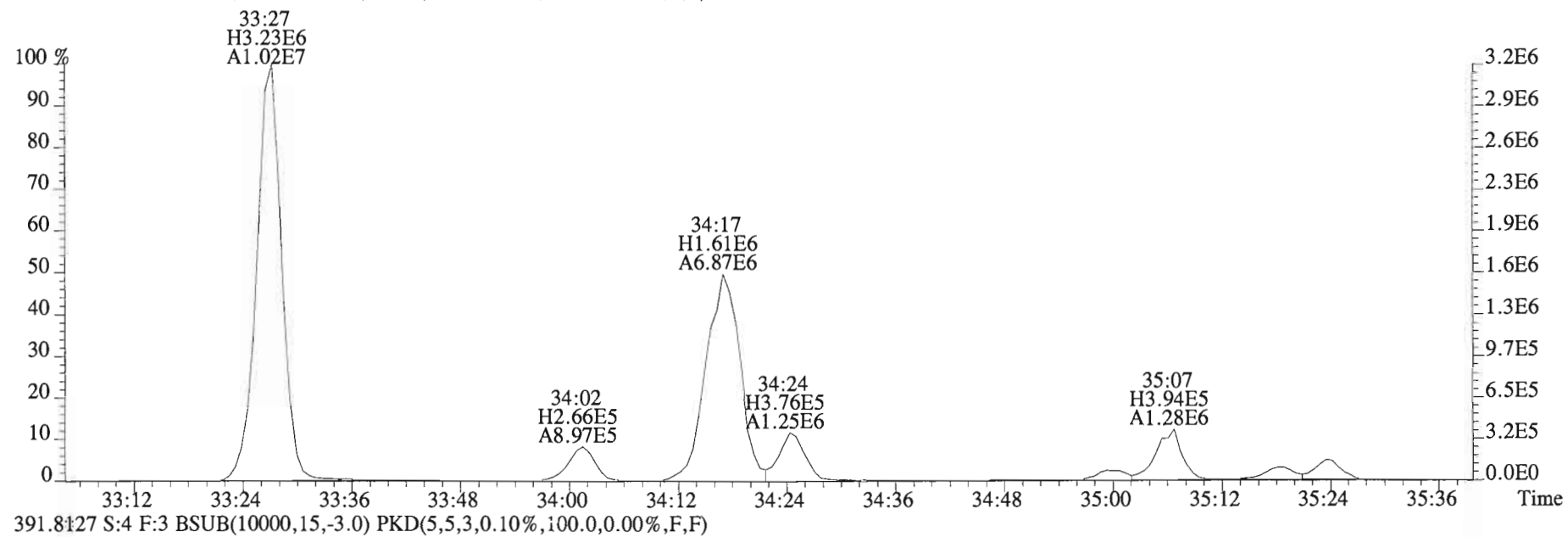
380.9760 S:4 F:3



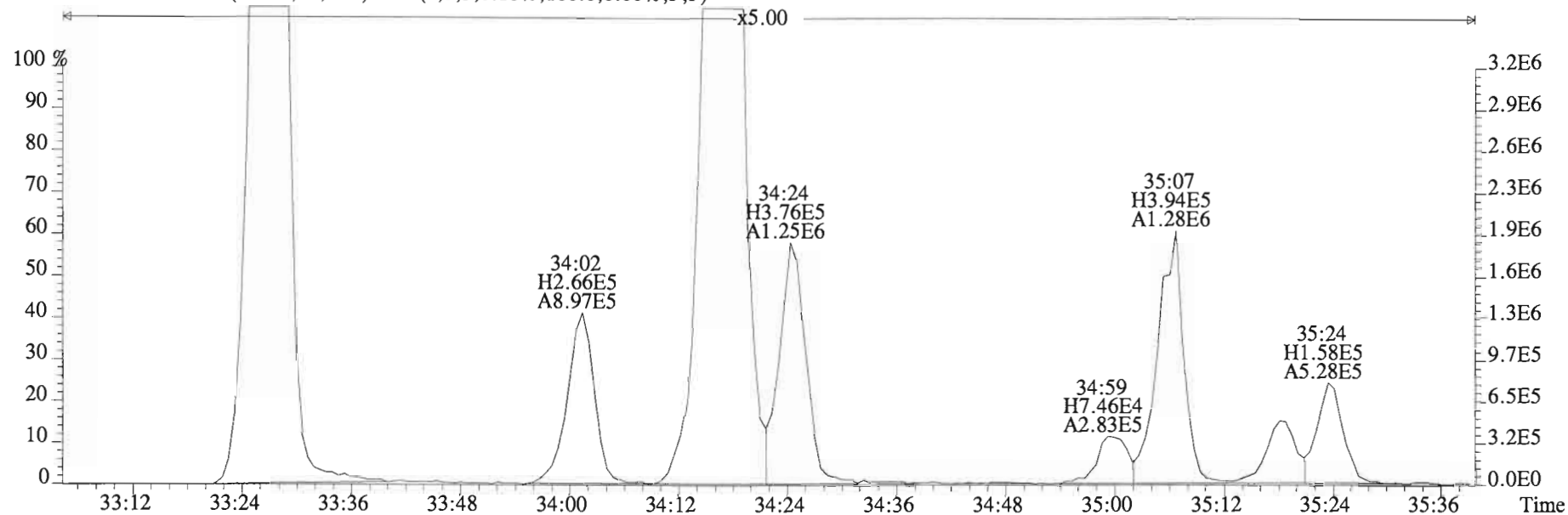
File:150220D2 #1-393 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



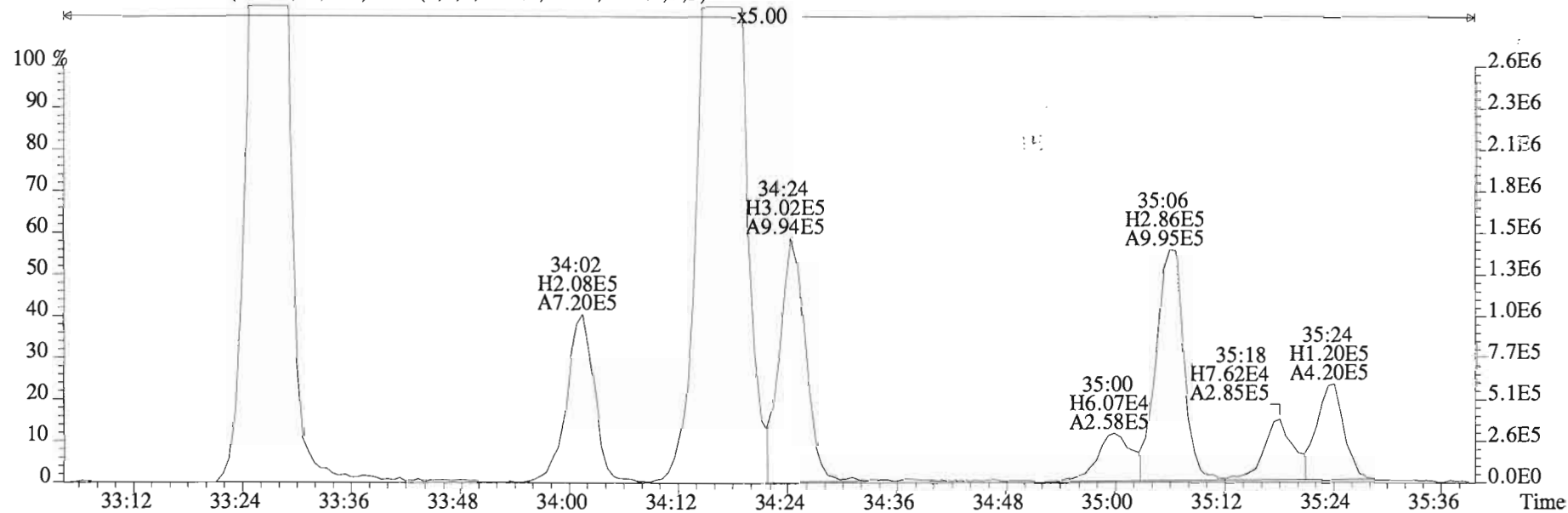
File:150220D2 #1-393 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



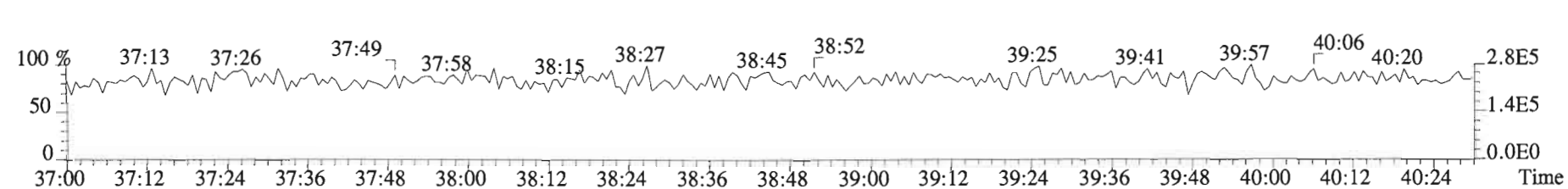
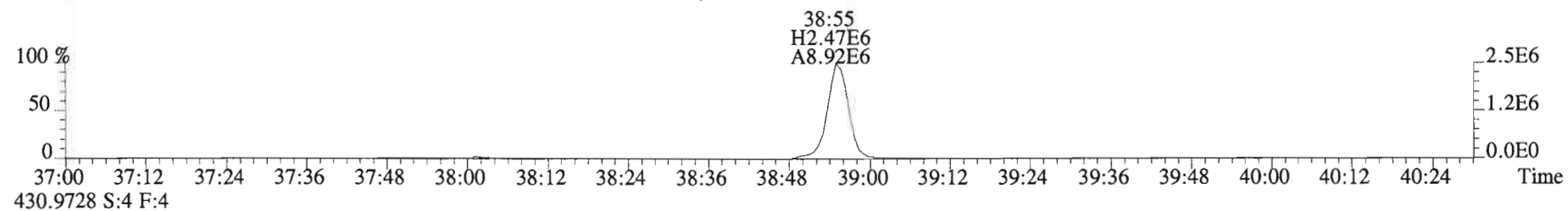
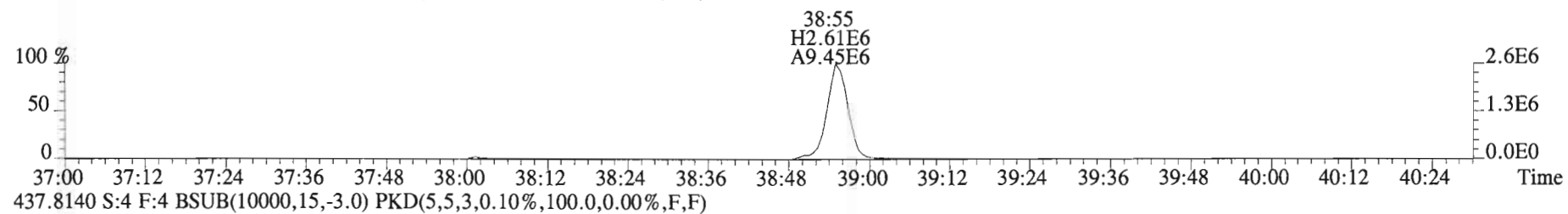
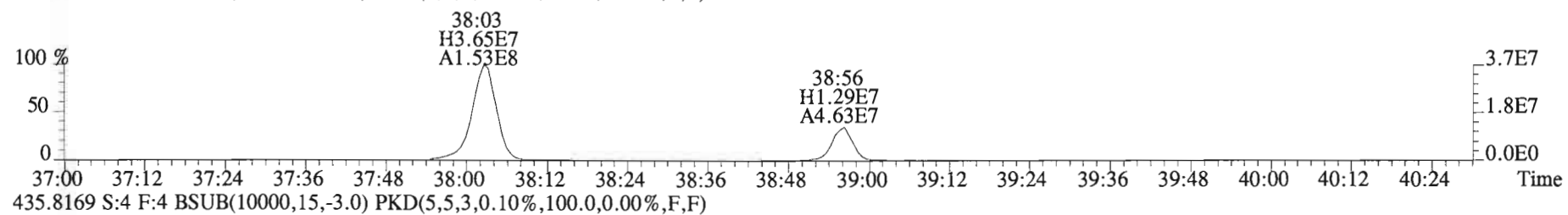
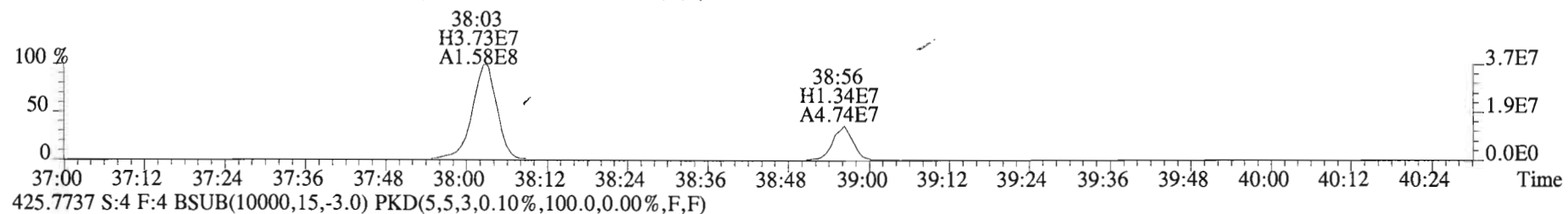
File:150220D2 #1-393 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
 389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



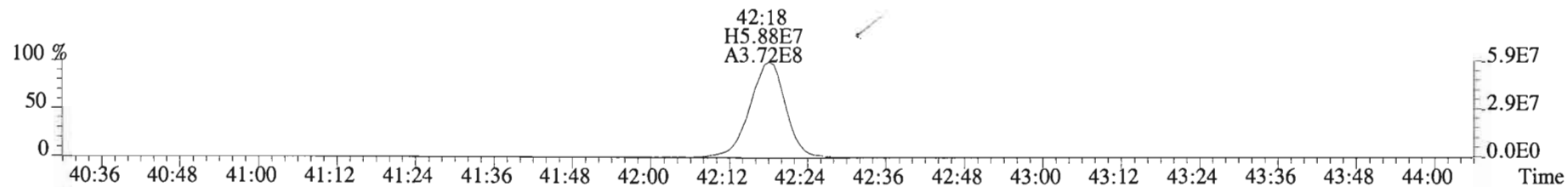
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



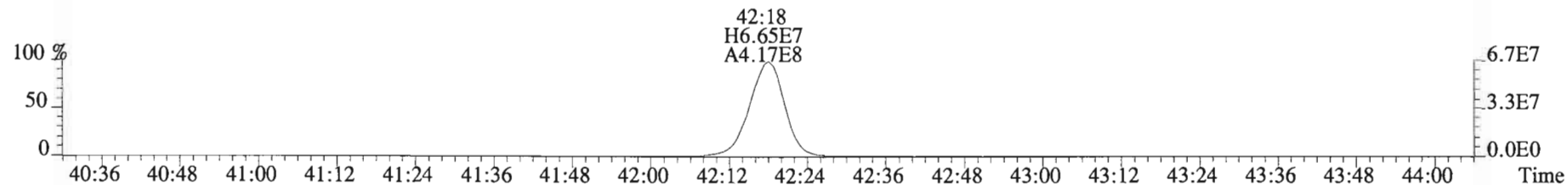
File:150220D2 #1-326 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



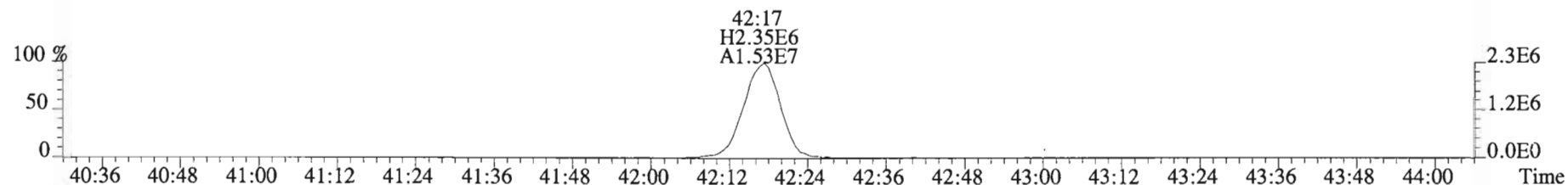
File:150220D2 #1-388 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



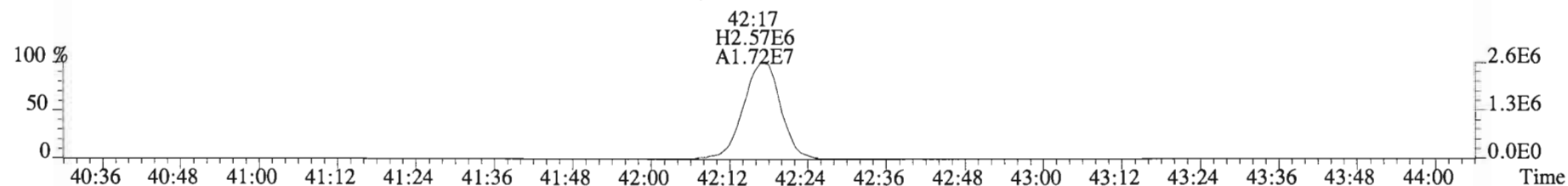
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



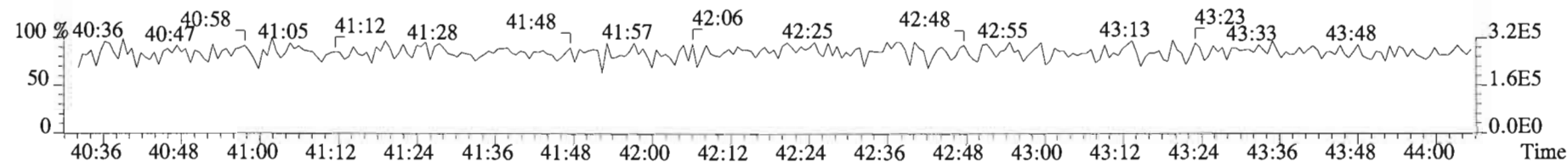
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



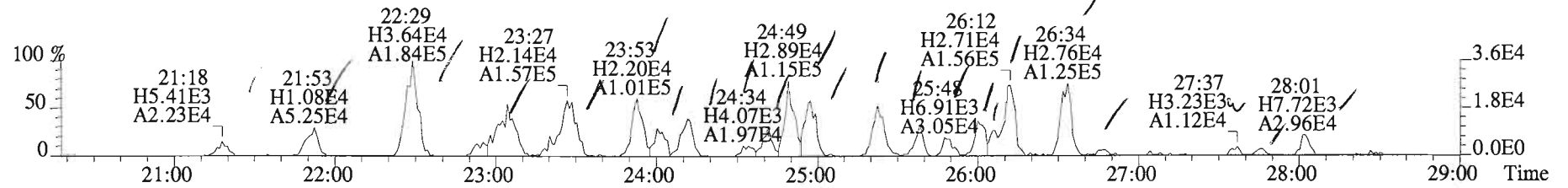
471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



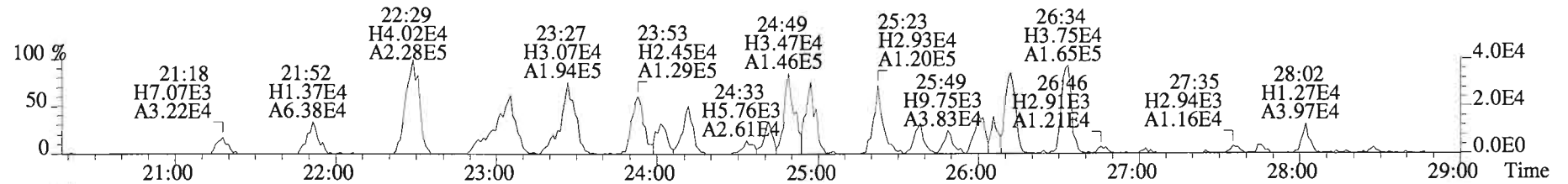
454.9728 S:4 F:5



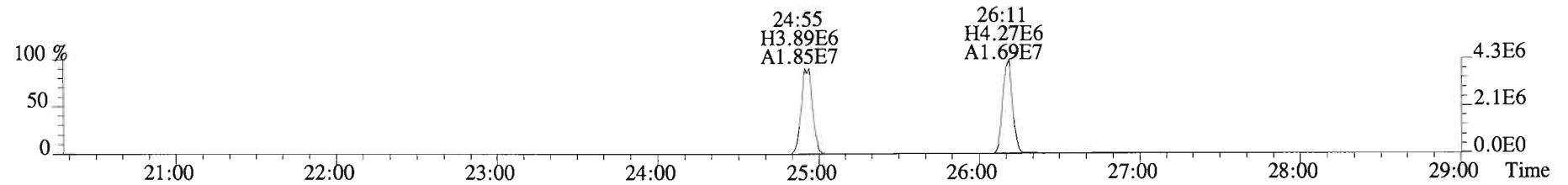
File:150220D2 #1-552 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



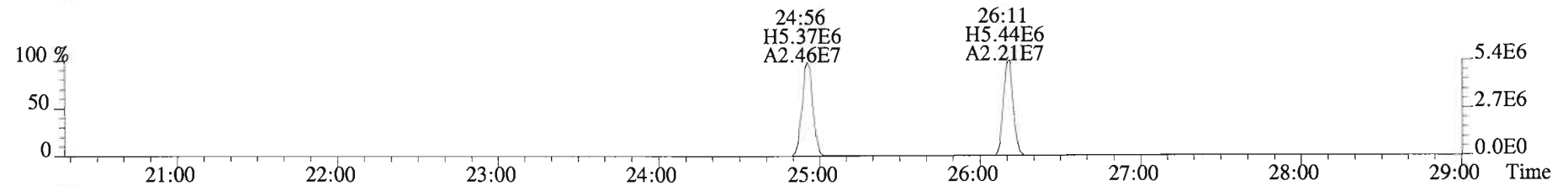
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



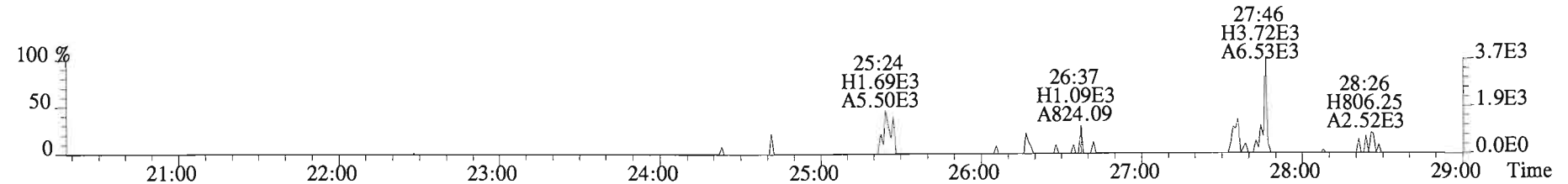
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



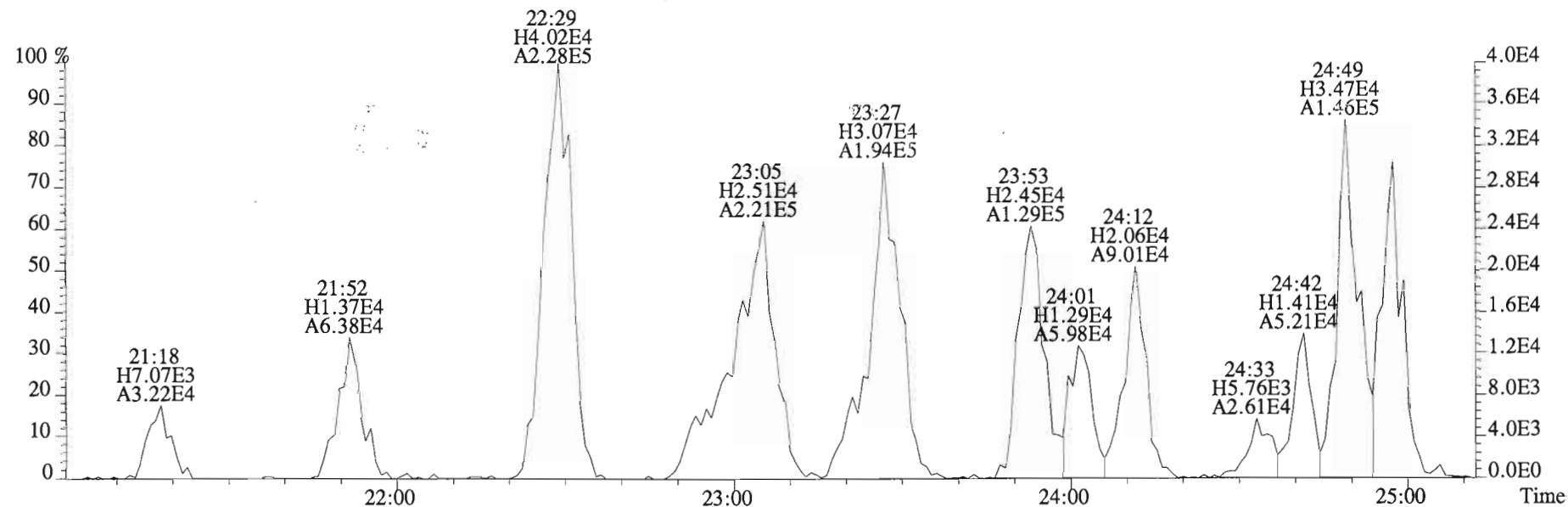
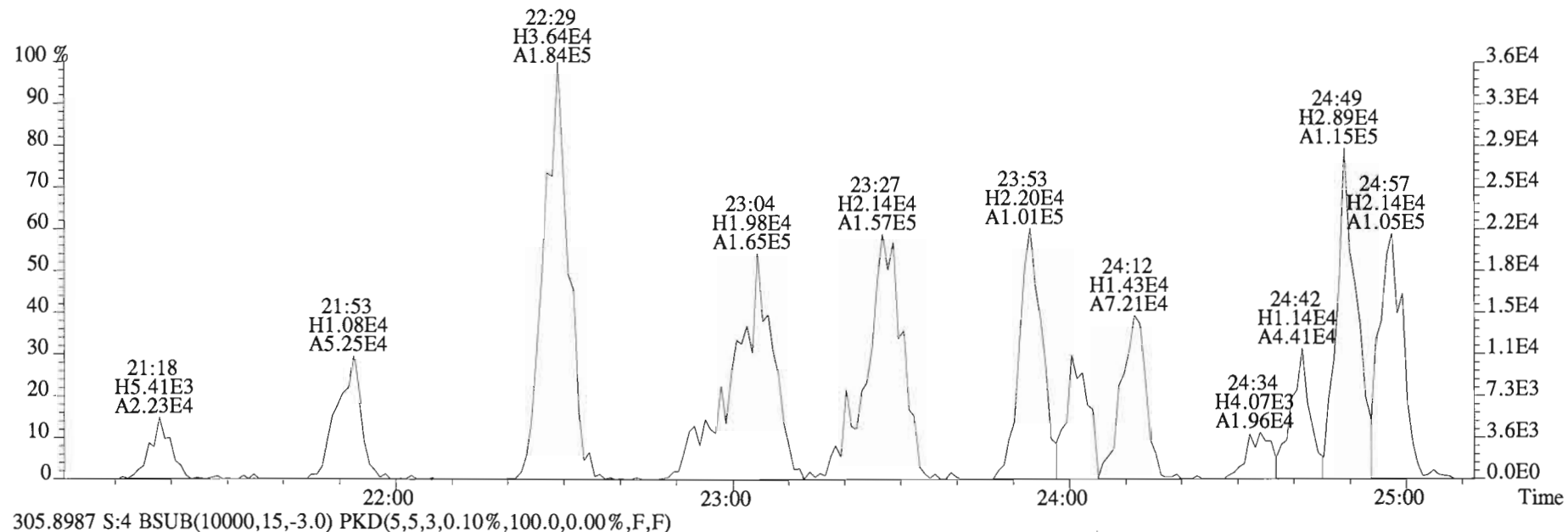
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



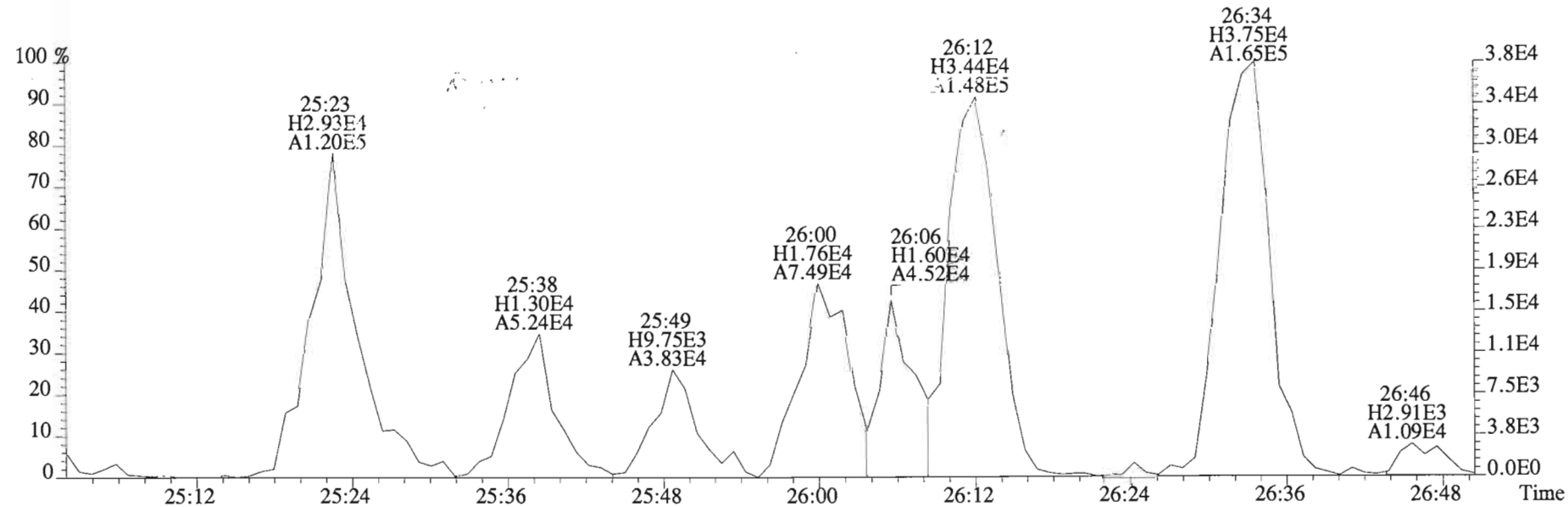
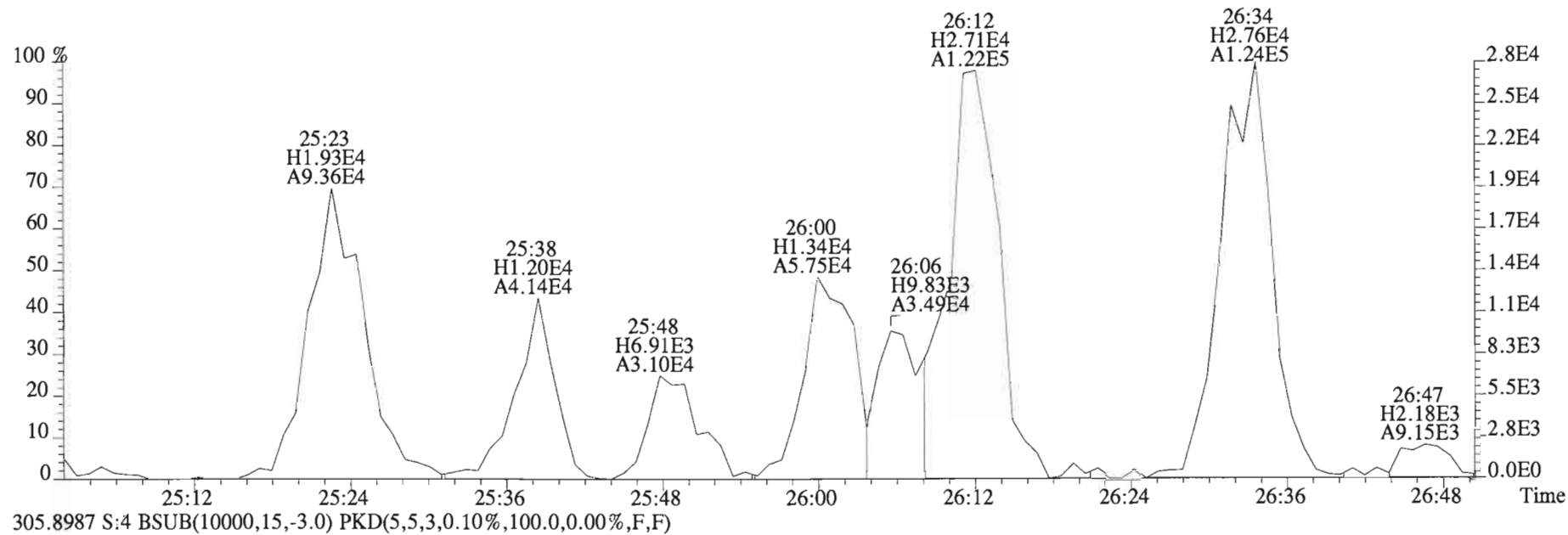
375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



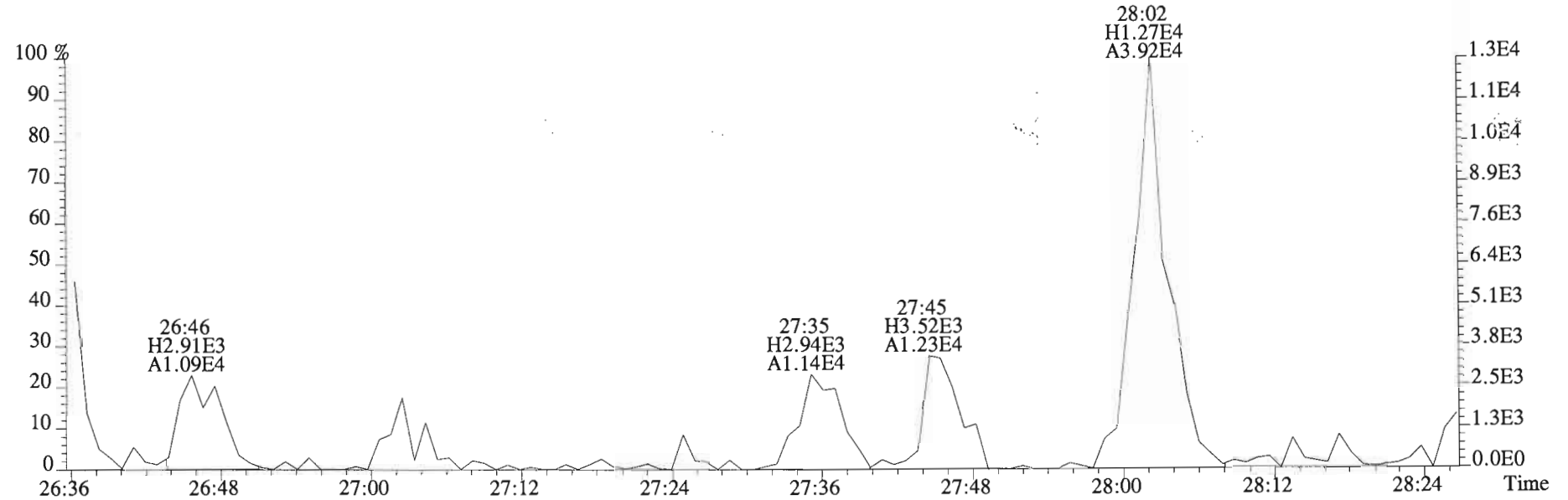
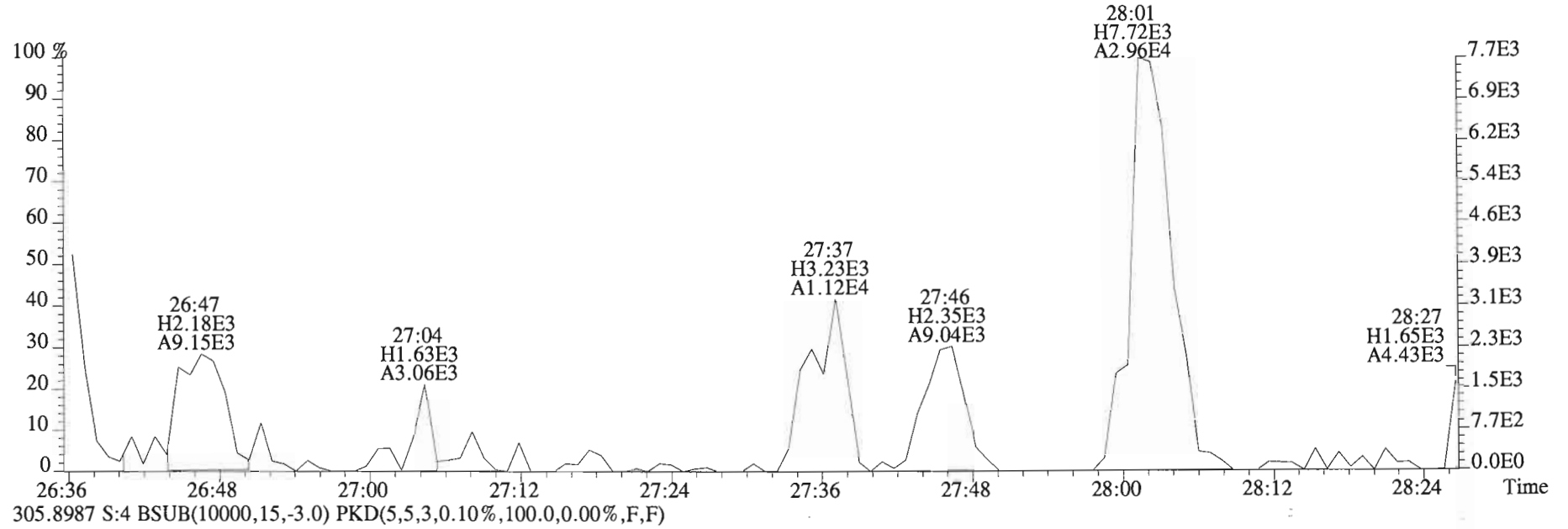
File:150220D2 #1-552 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



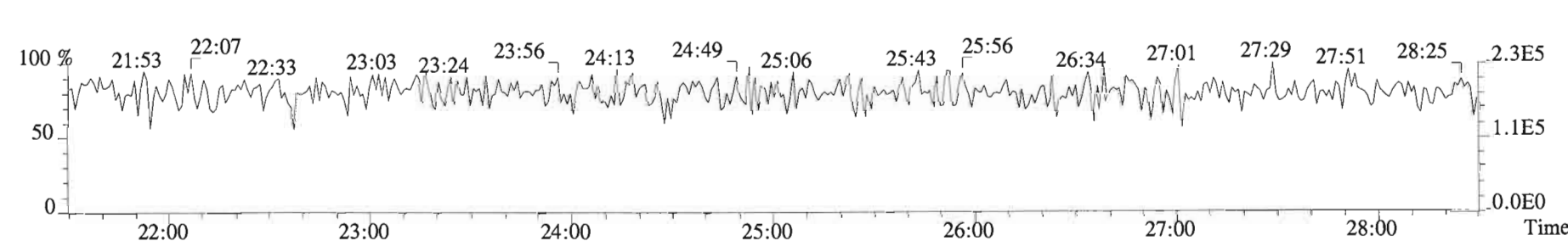
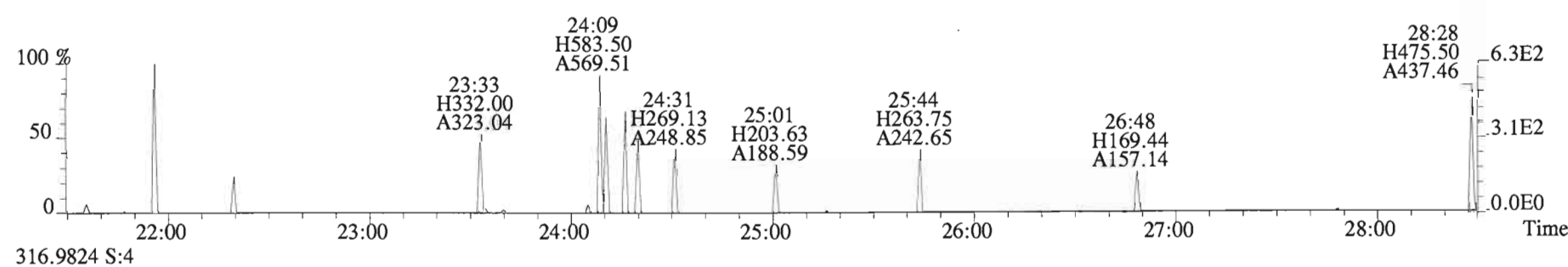
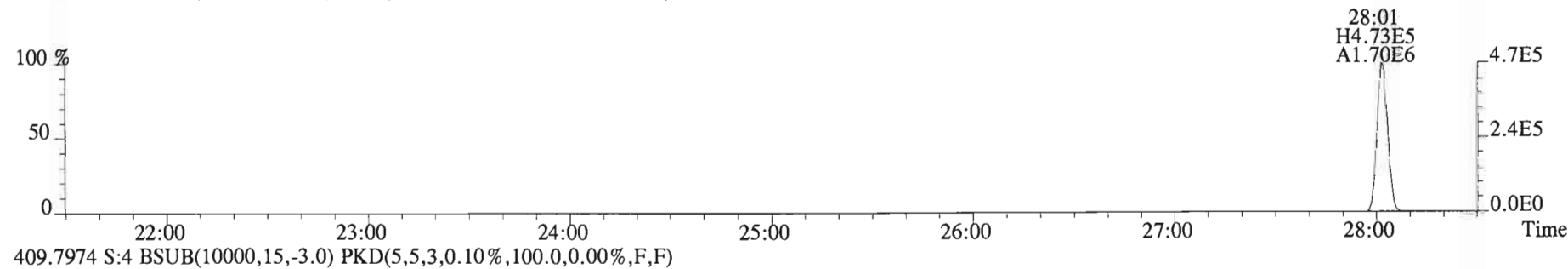
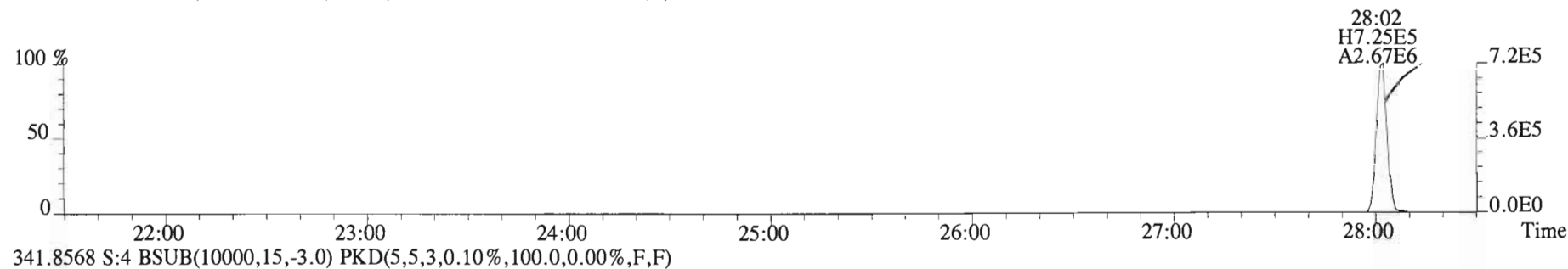
File:150220D2 #1-552 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



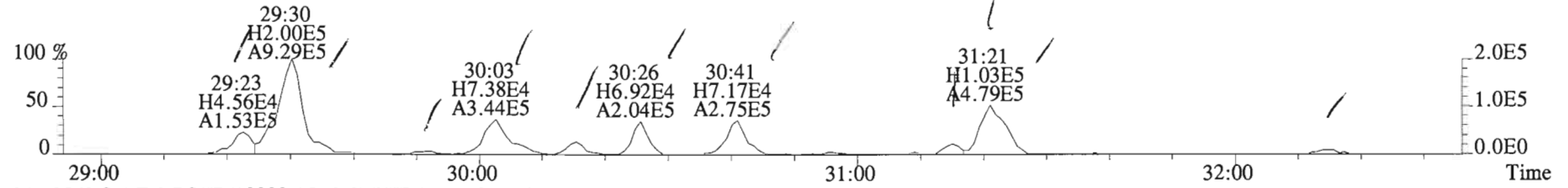
File:150220D2 #1-552 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



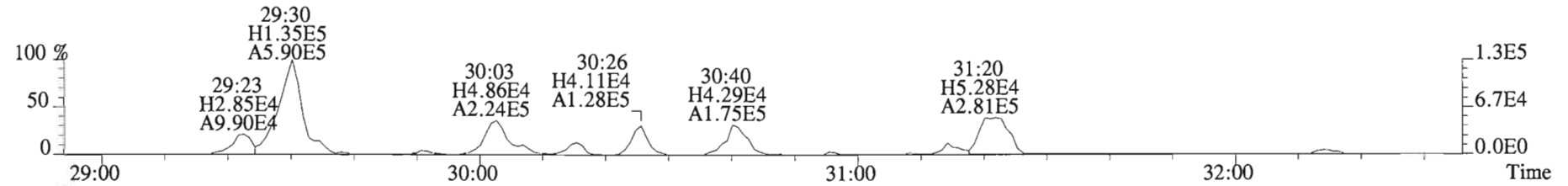
File:150220D2 #1-552 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



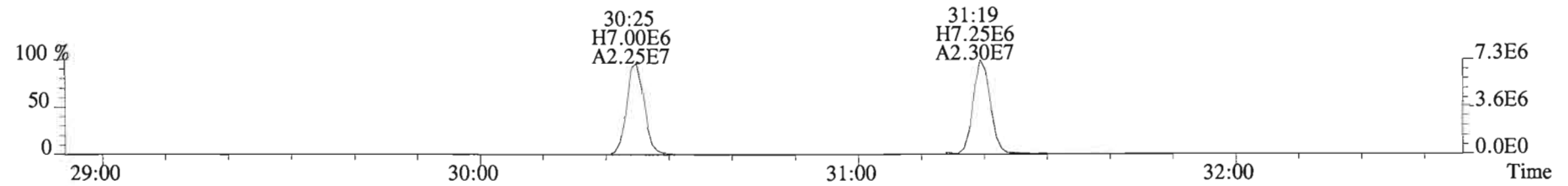
File:150220D2 #1-250 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



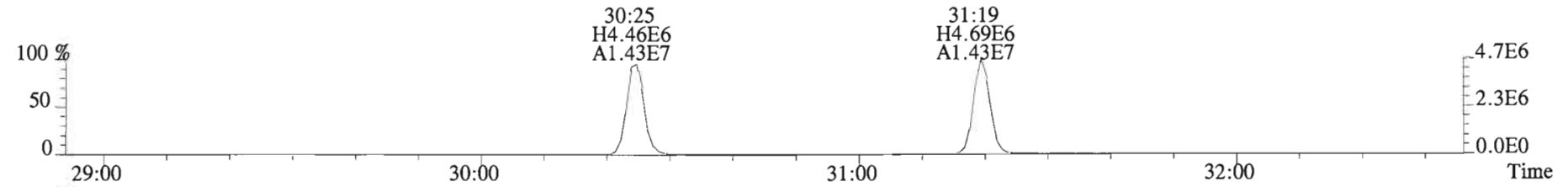
341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



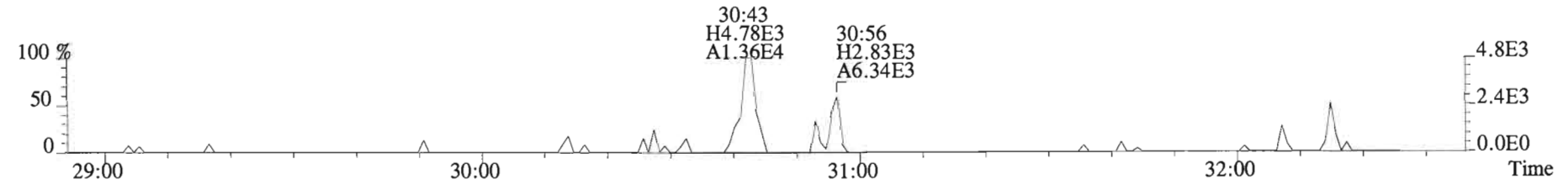
351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



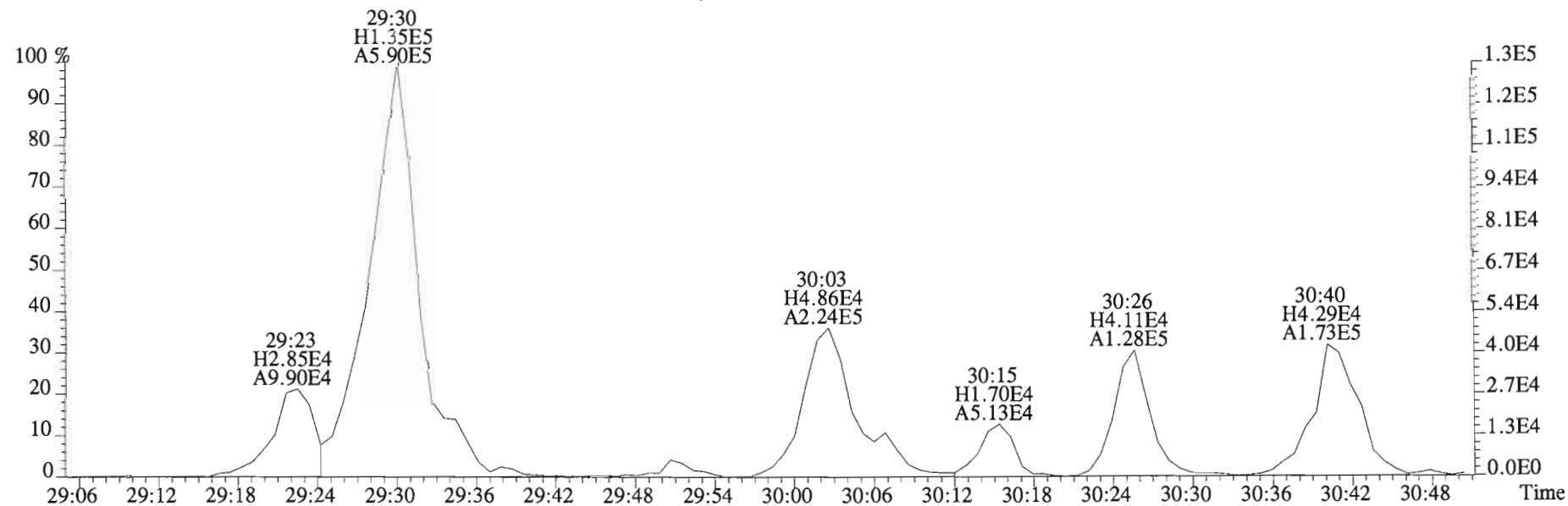
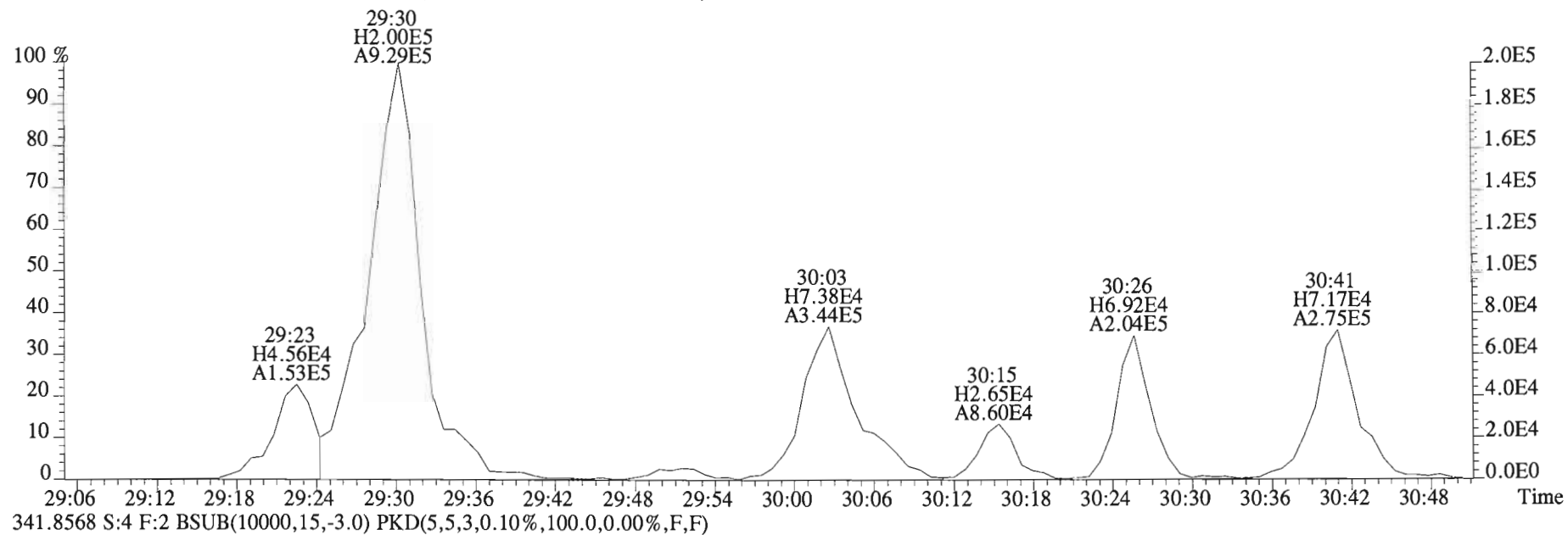
353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



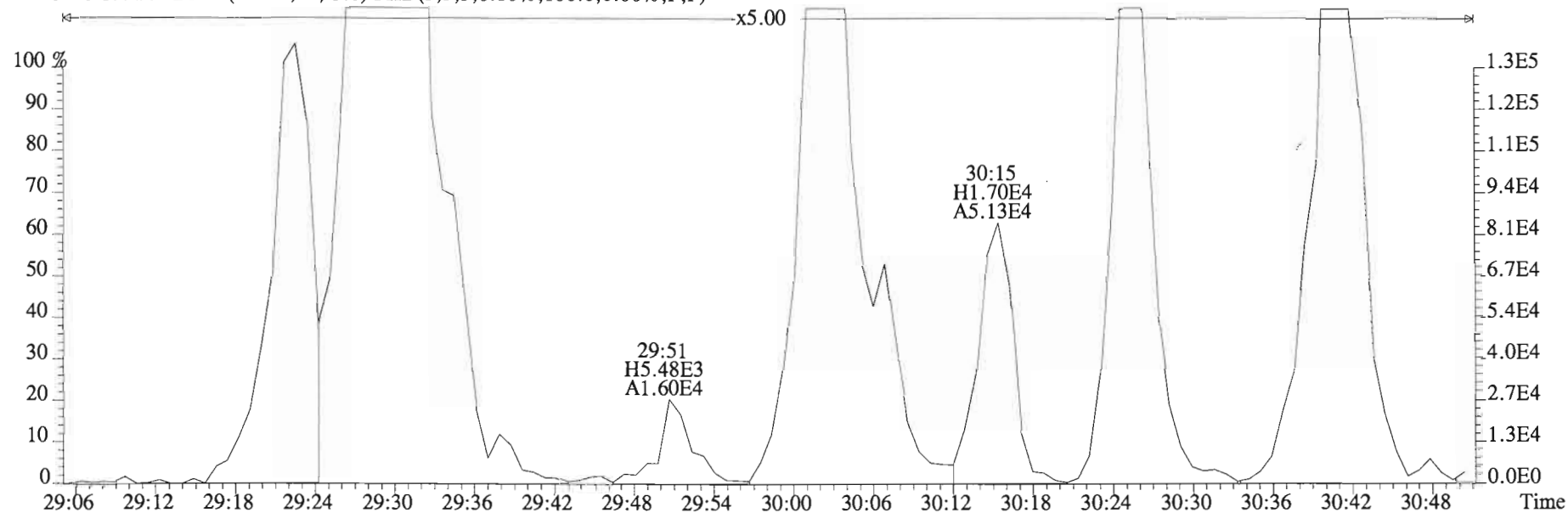
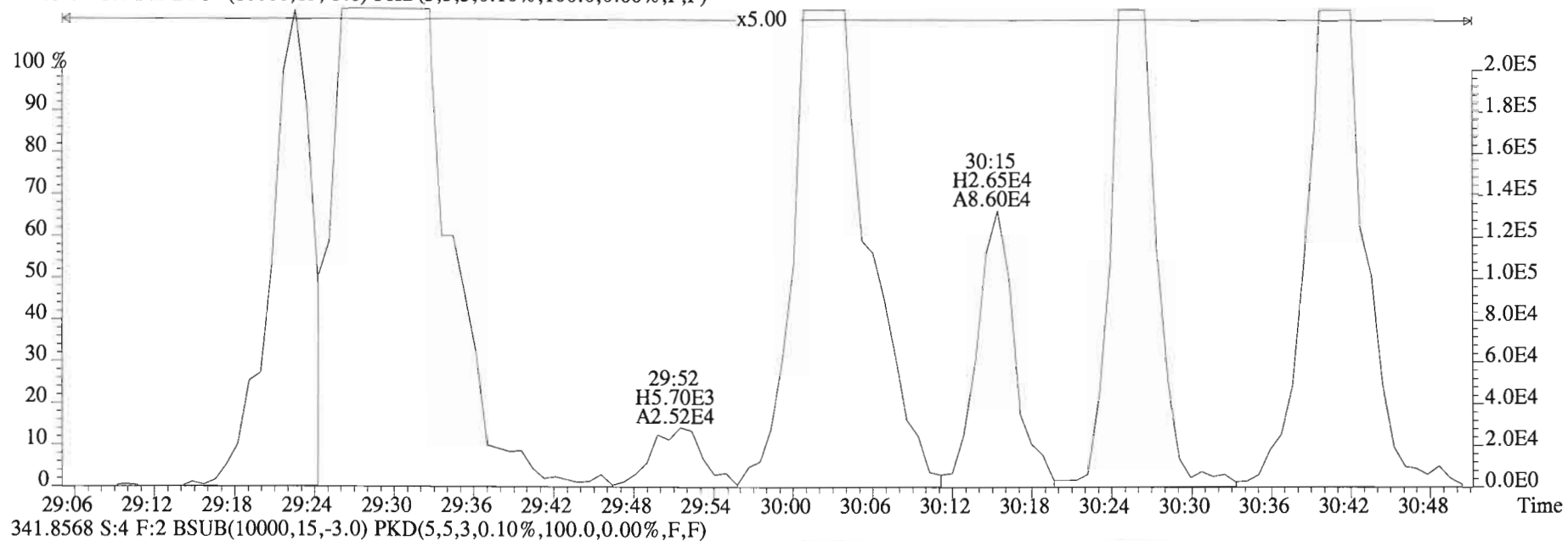
409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



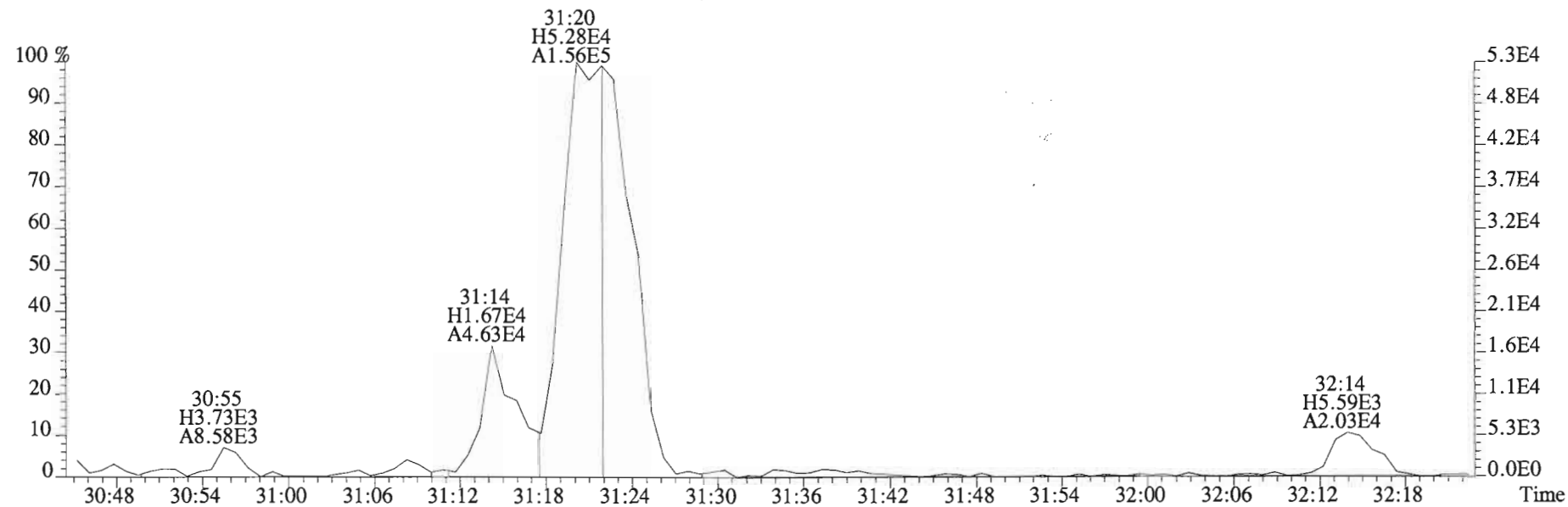
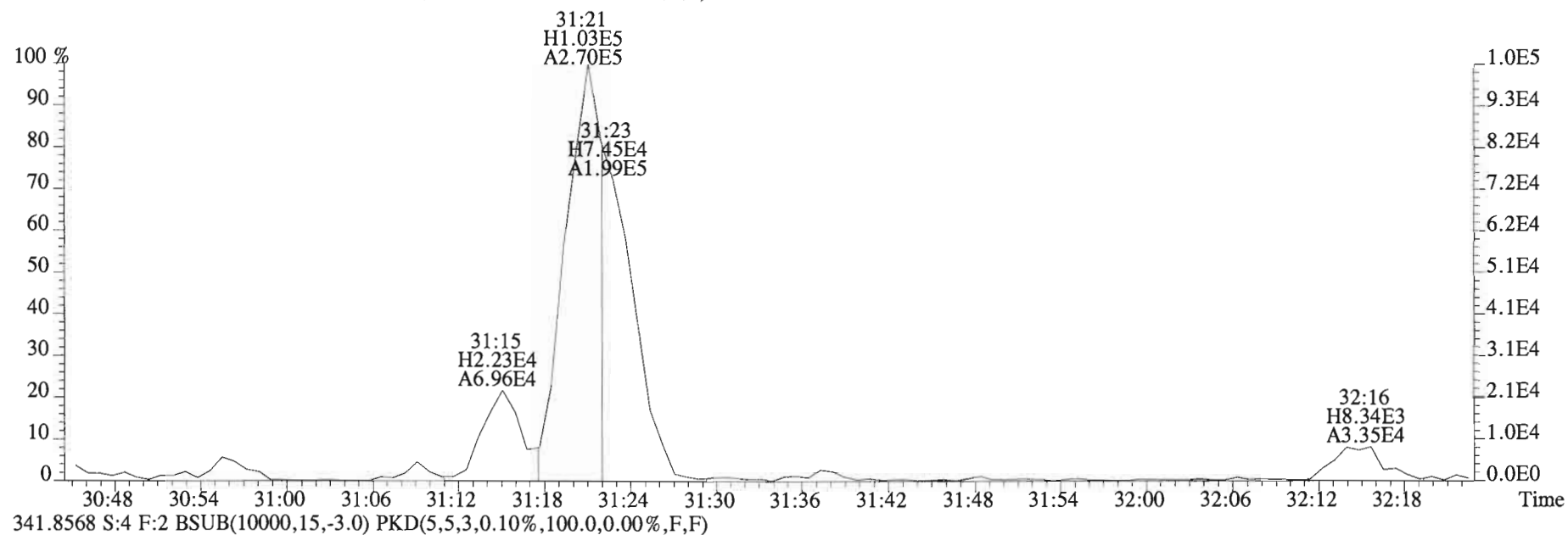
File:150220D2 #1-250 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



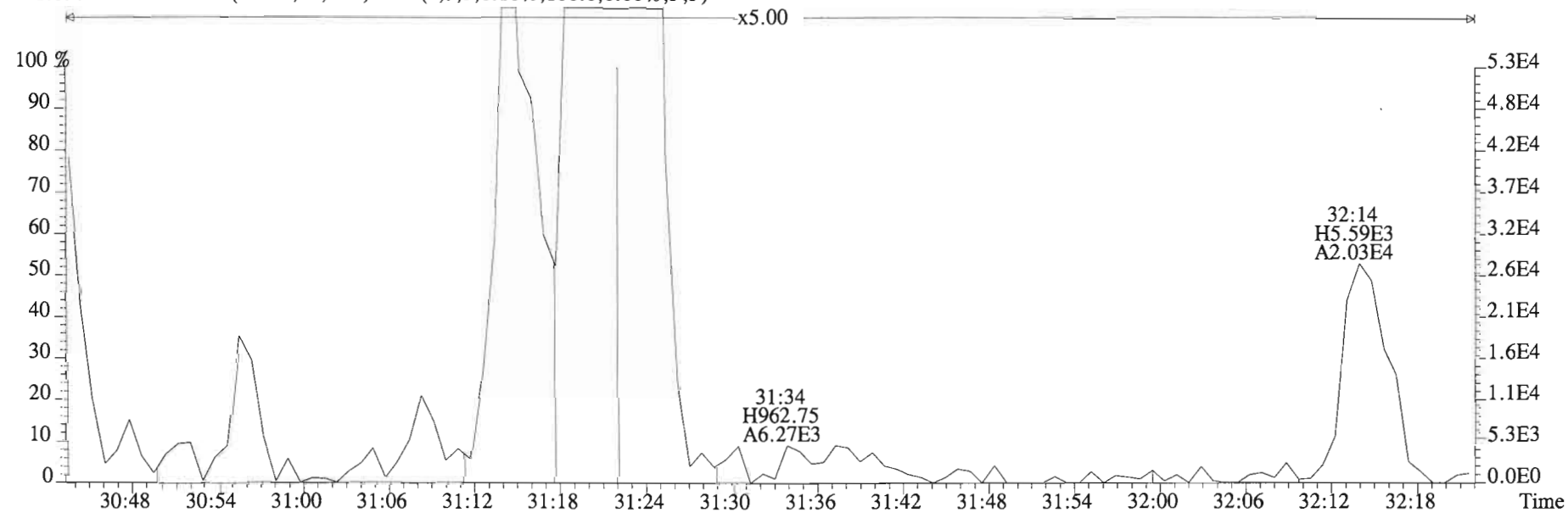
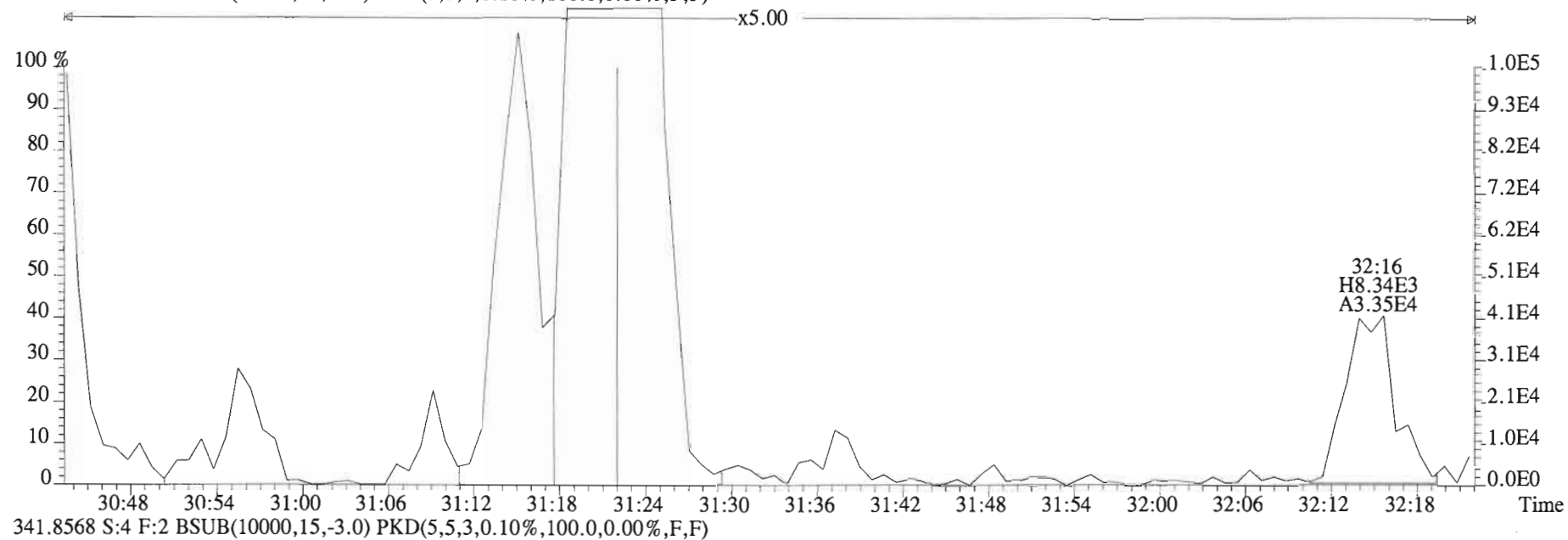
File:150220D2 #1-250 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



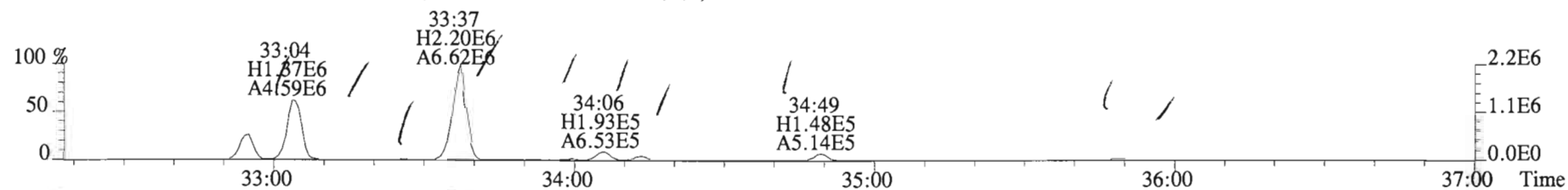
File:150220D2 #1-250 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text: Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



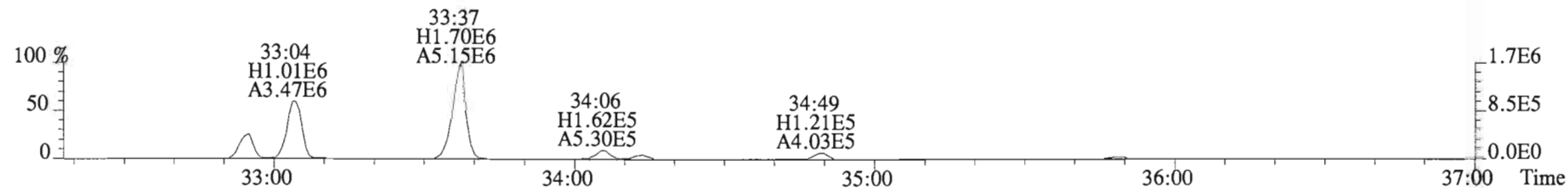
File:150220D2 #1-250 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



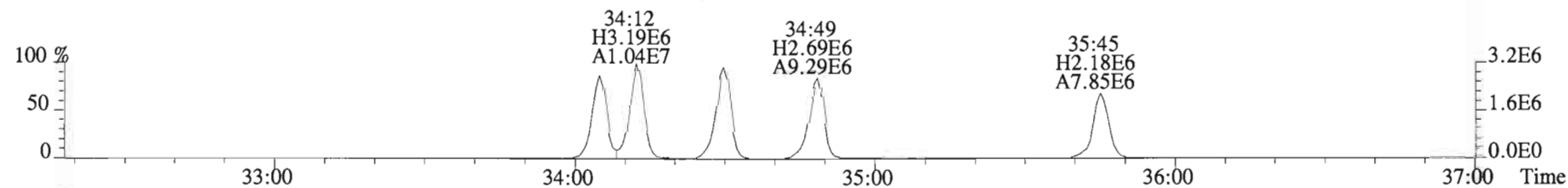
File:150220D2 #1-393 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



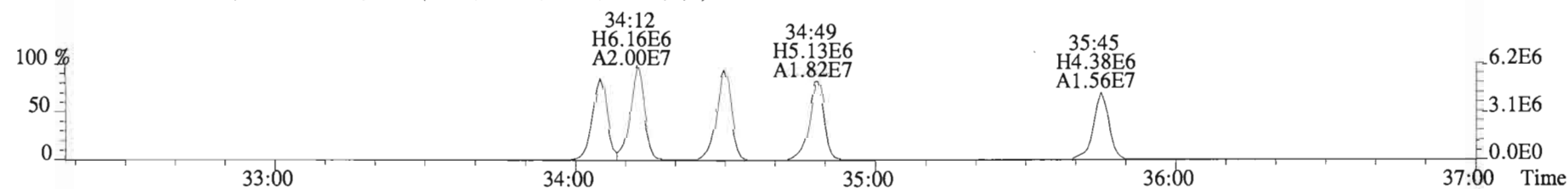
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



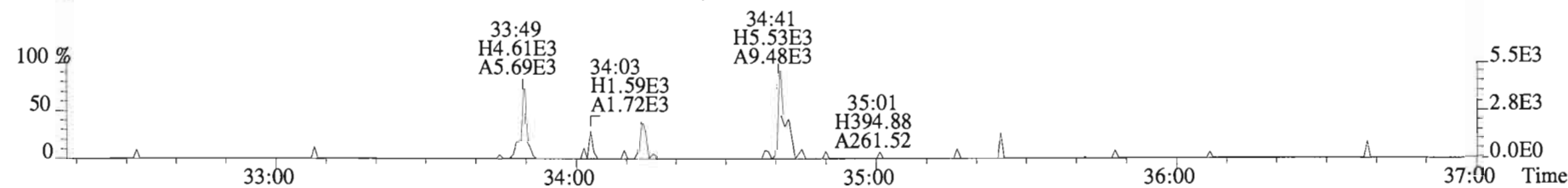
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



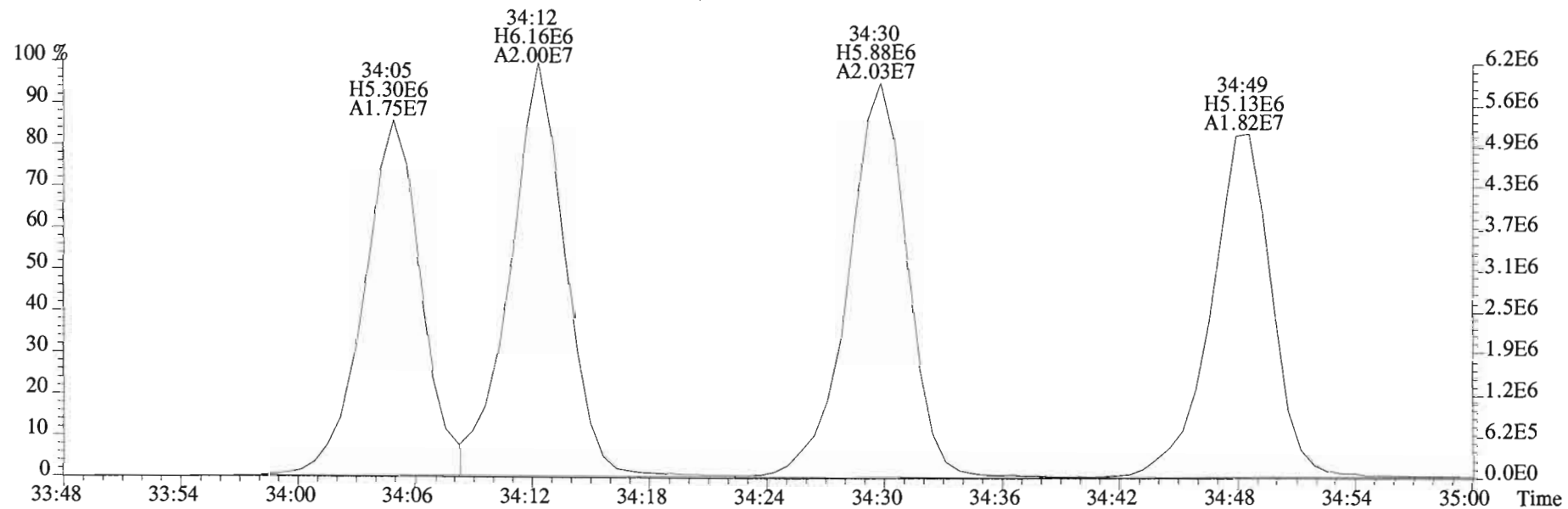
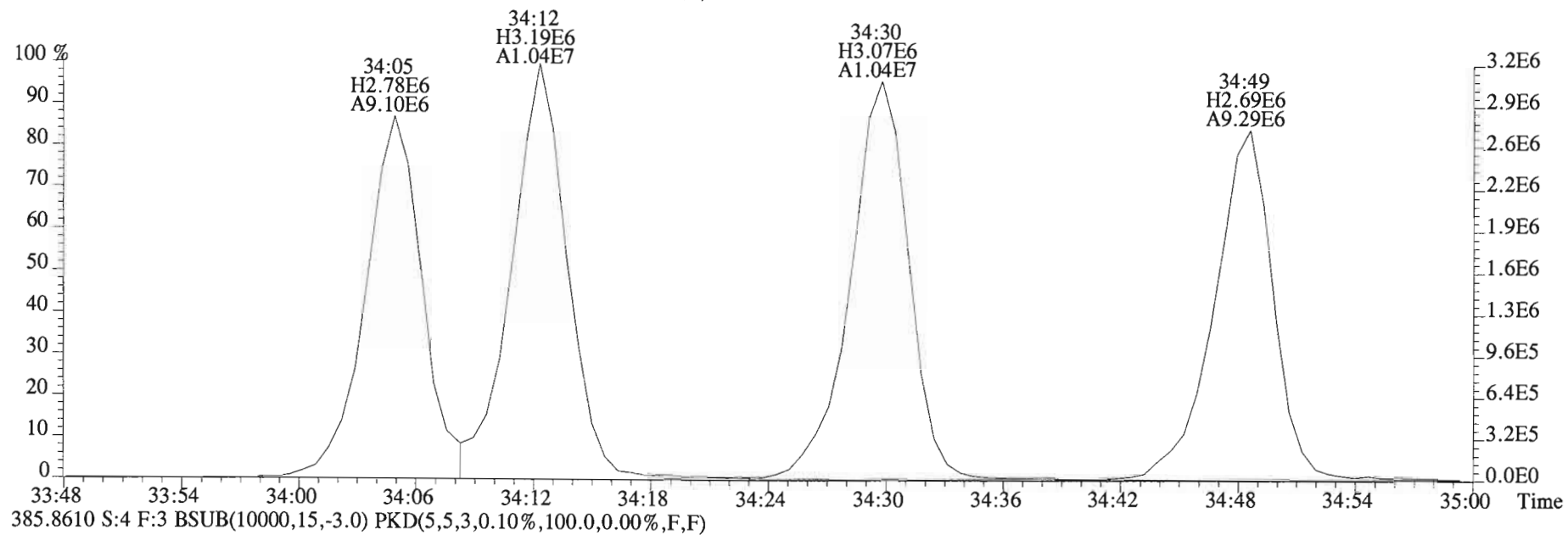
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



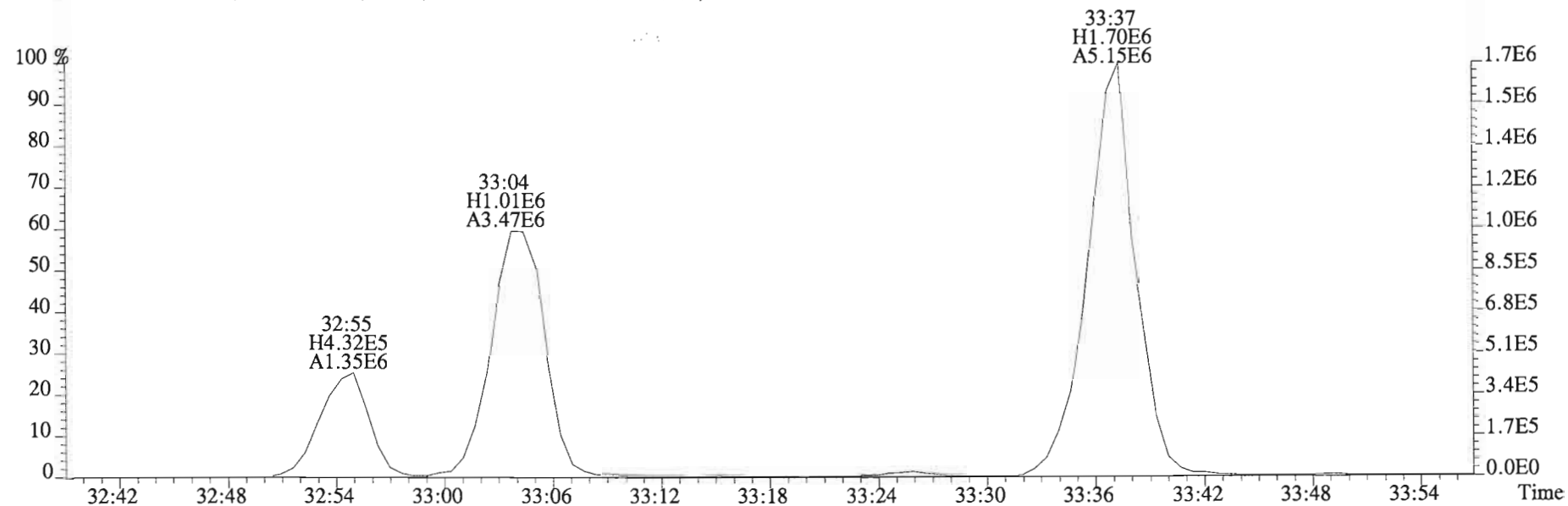
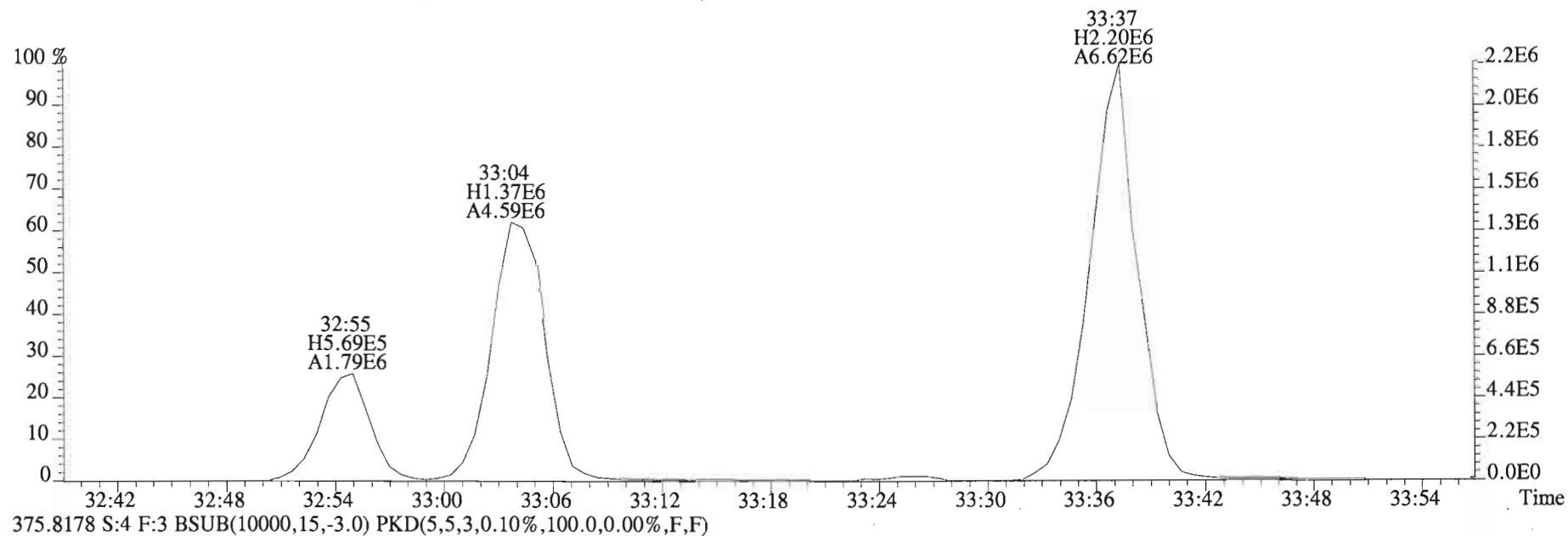
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



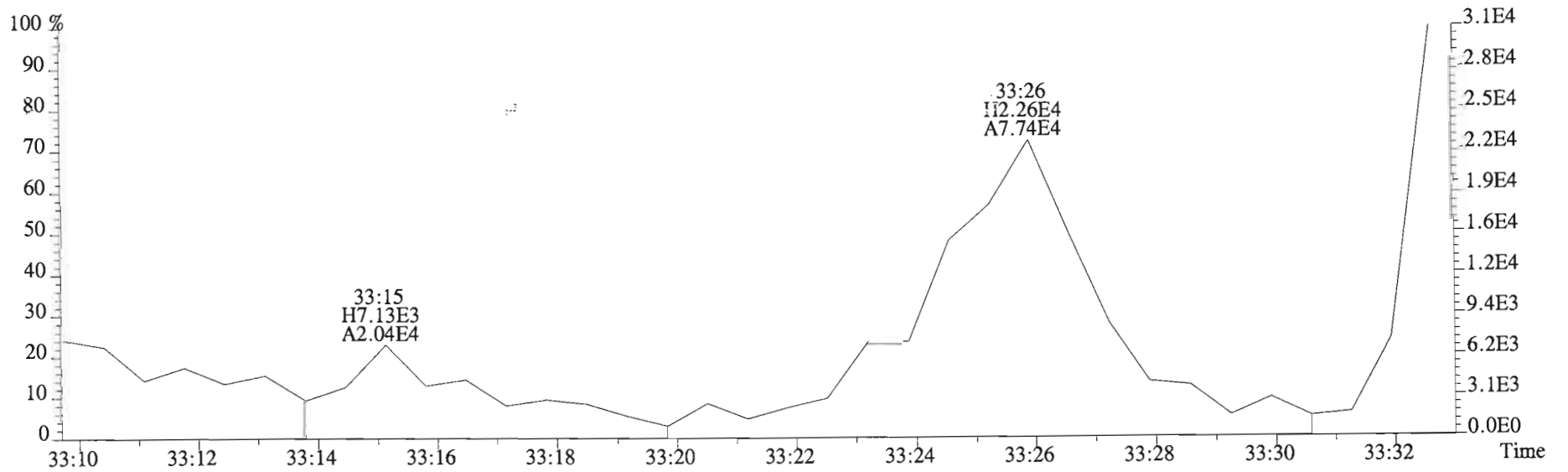
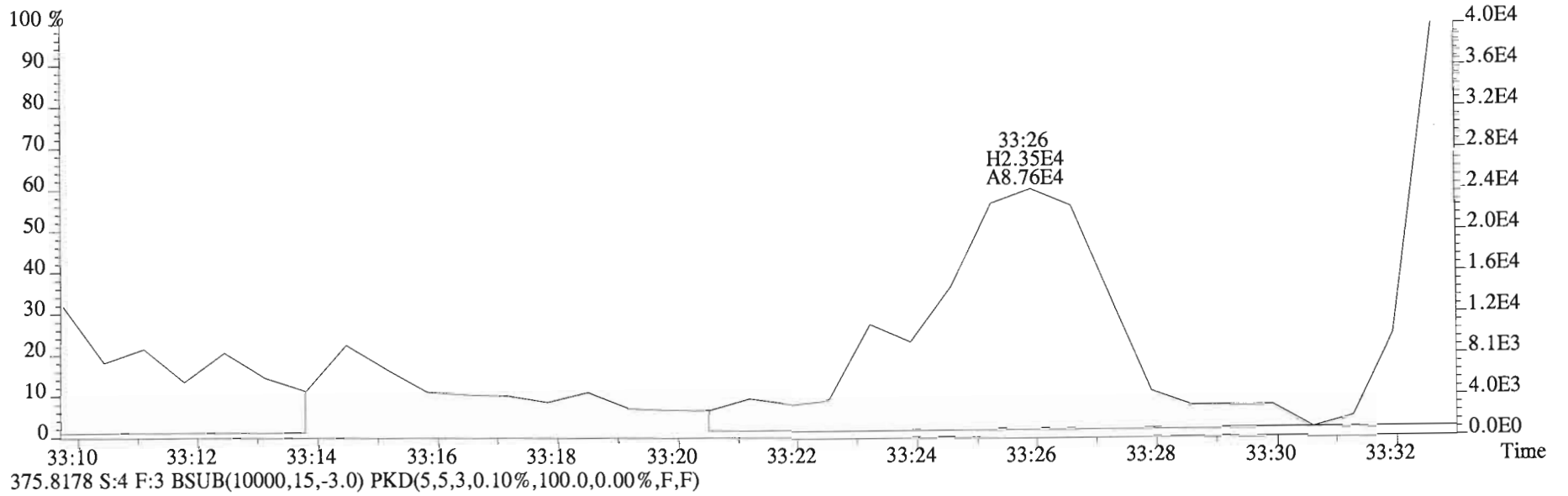
File:150220D2 #1-393 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



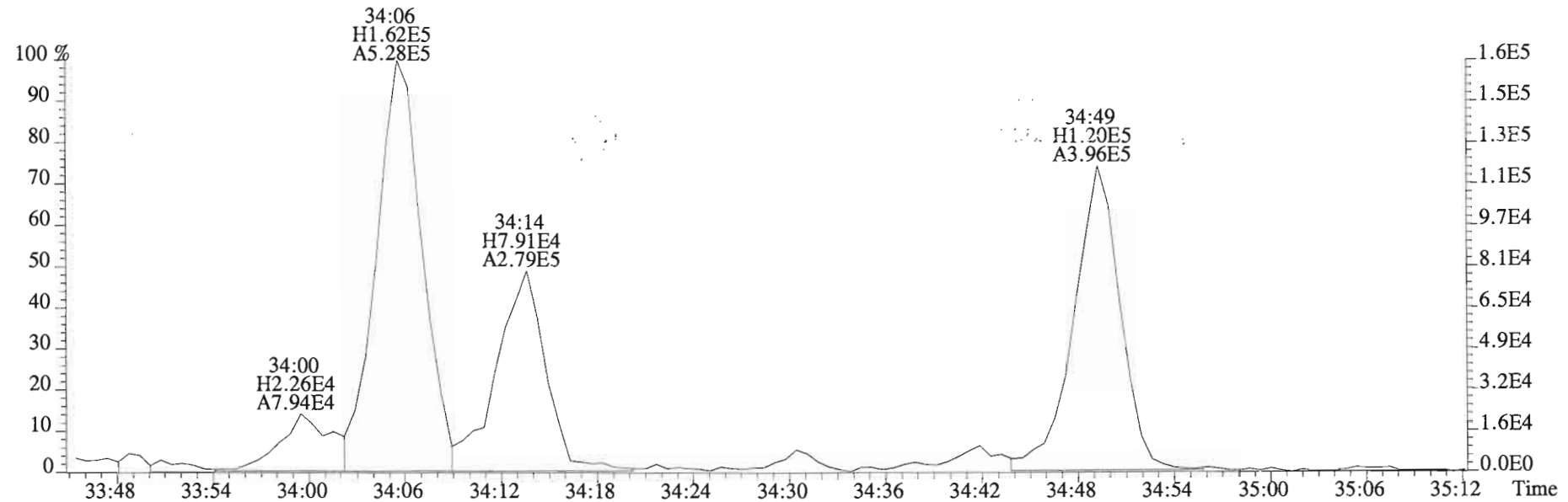
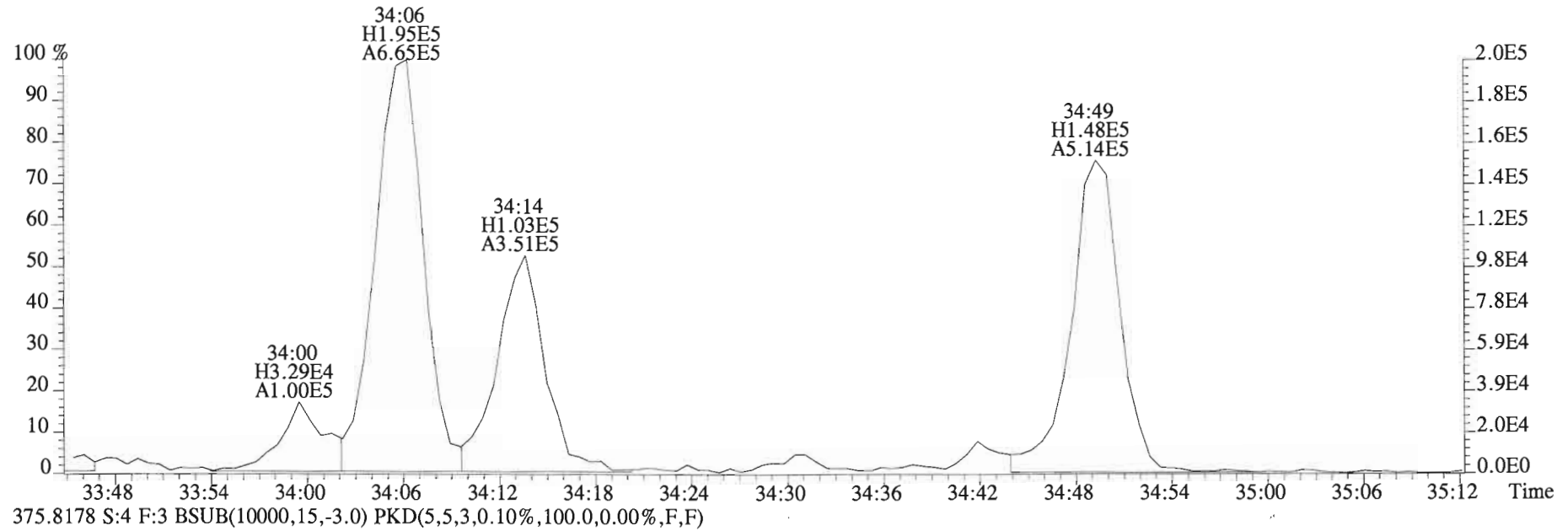
File:150220D2 #1-393 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



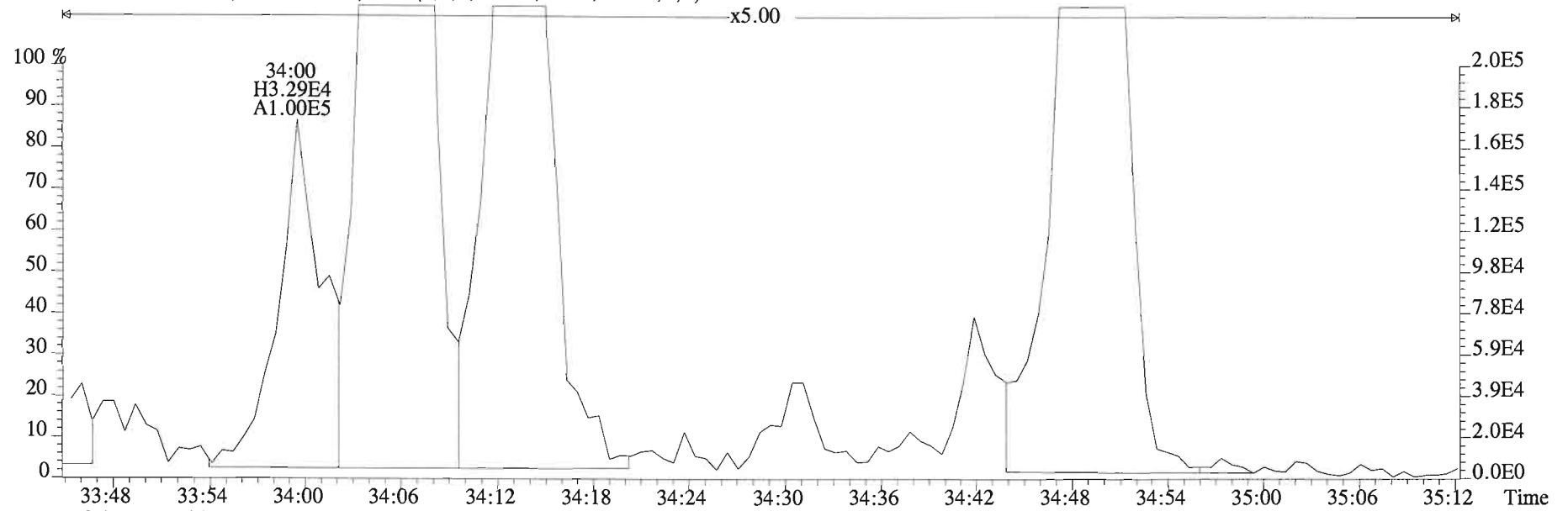
File:150220D2 #1-393 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



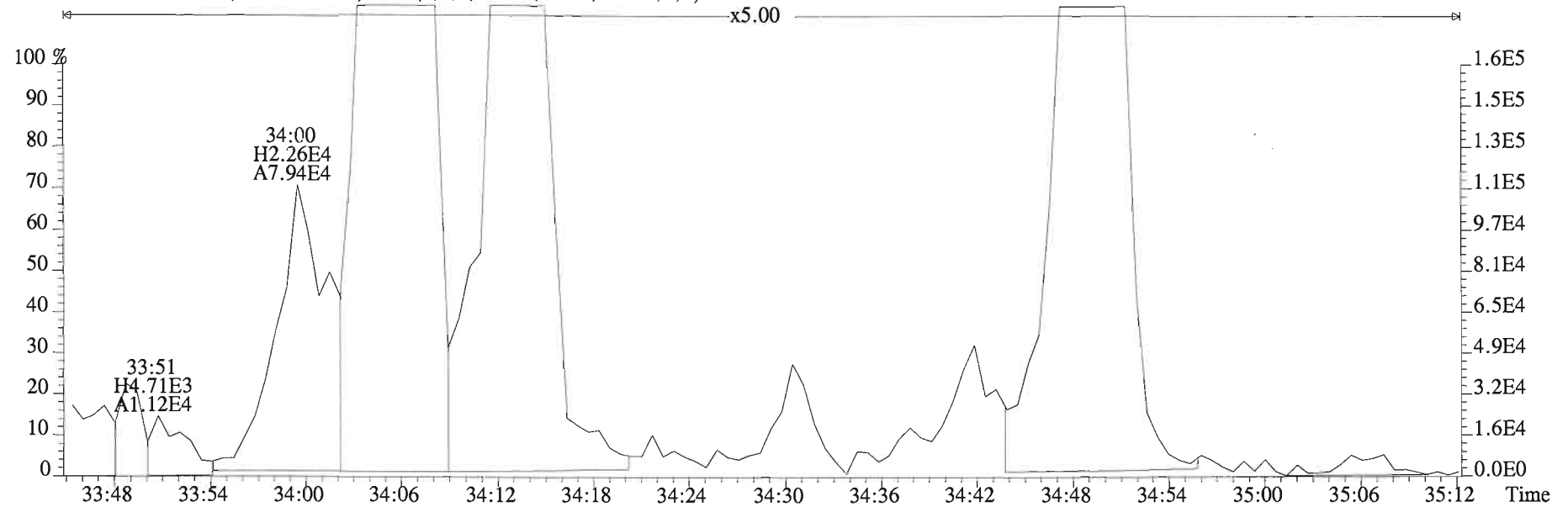
File:150220D2 #1-393 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



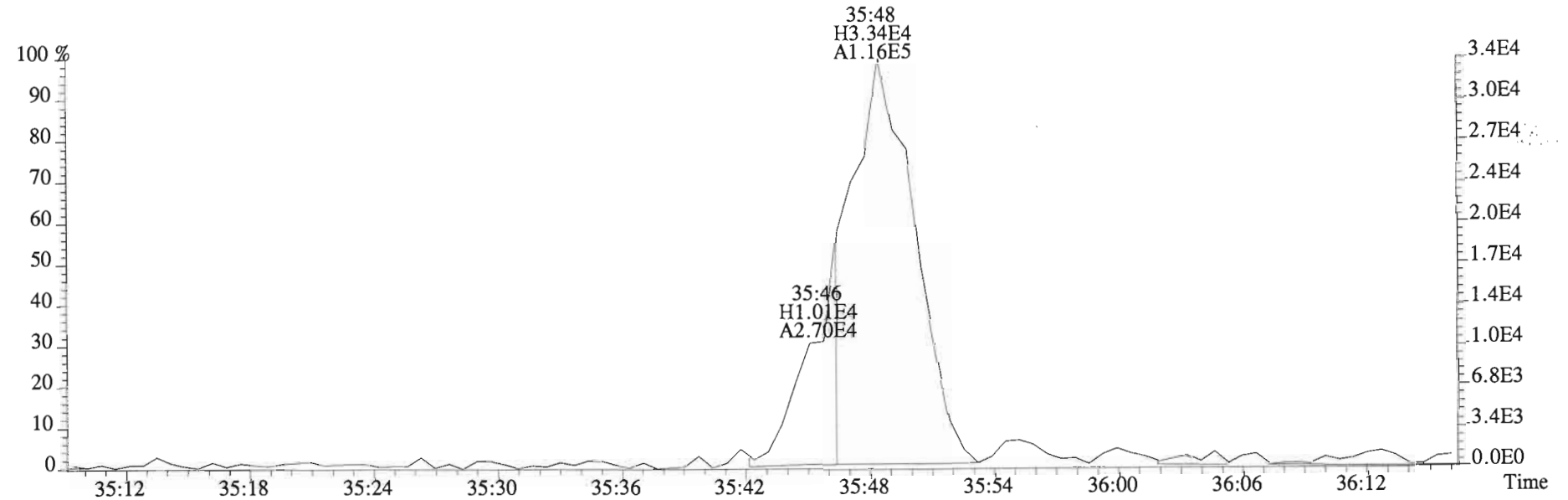
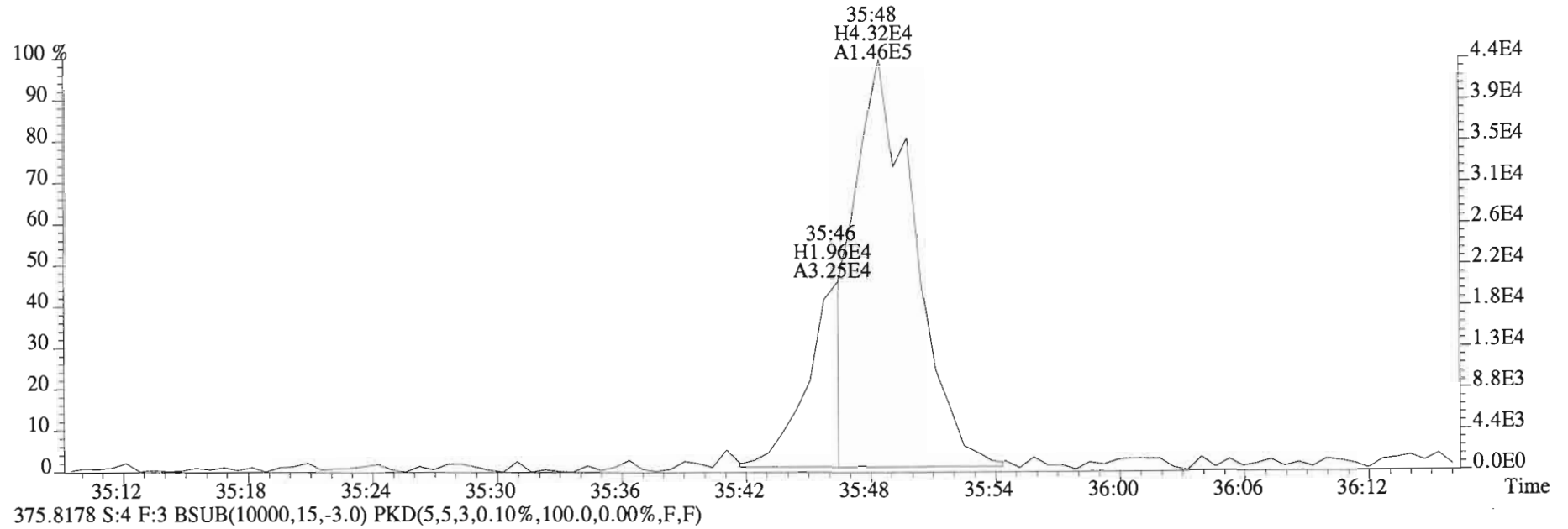
File:150220D2 #1-393 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
373.8207 S:4 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



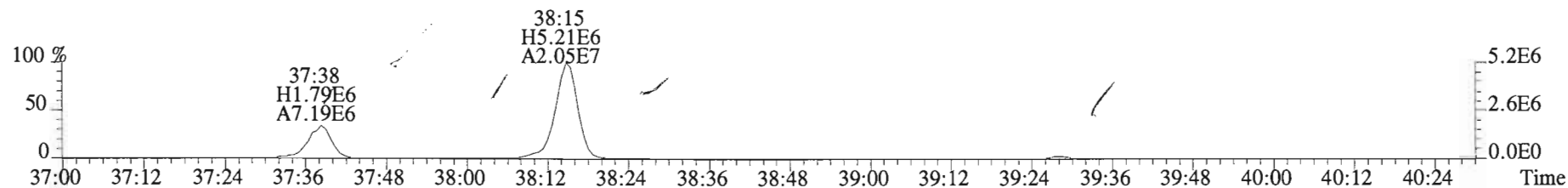
375.8178 S:4 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



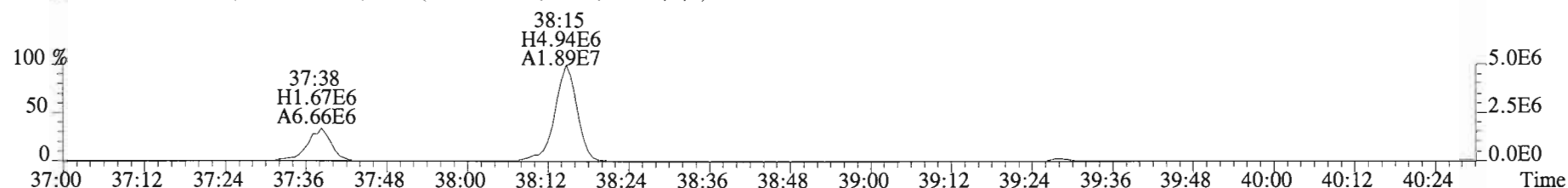
File:150220D2 #1-393 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



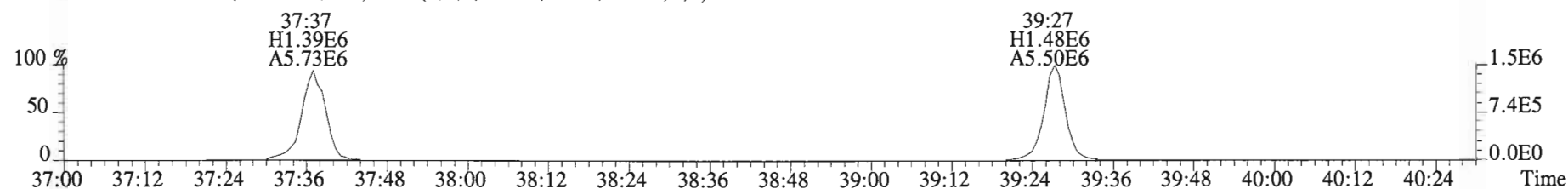
File:150220D2 #1-326 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



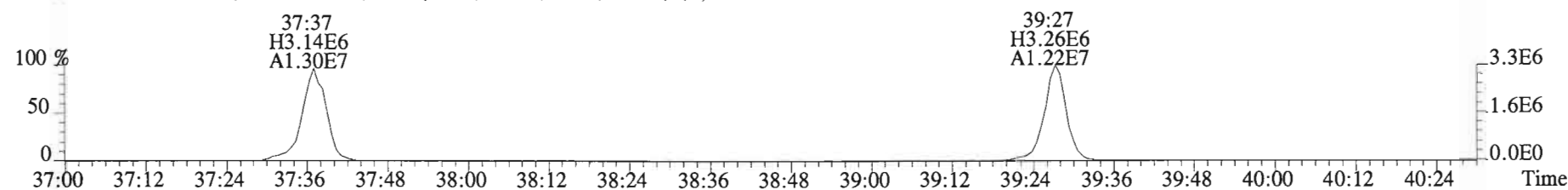
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



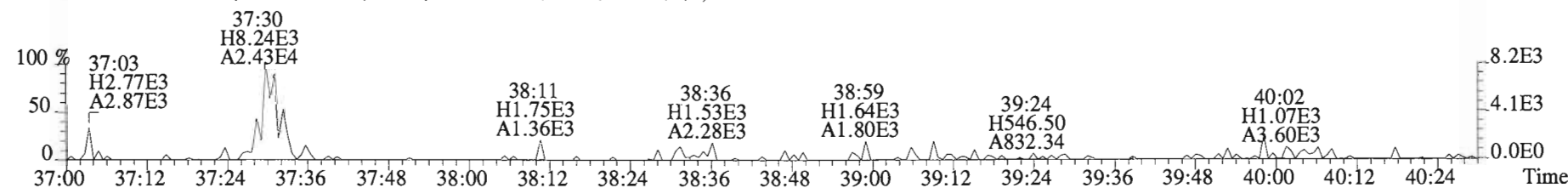
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



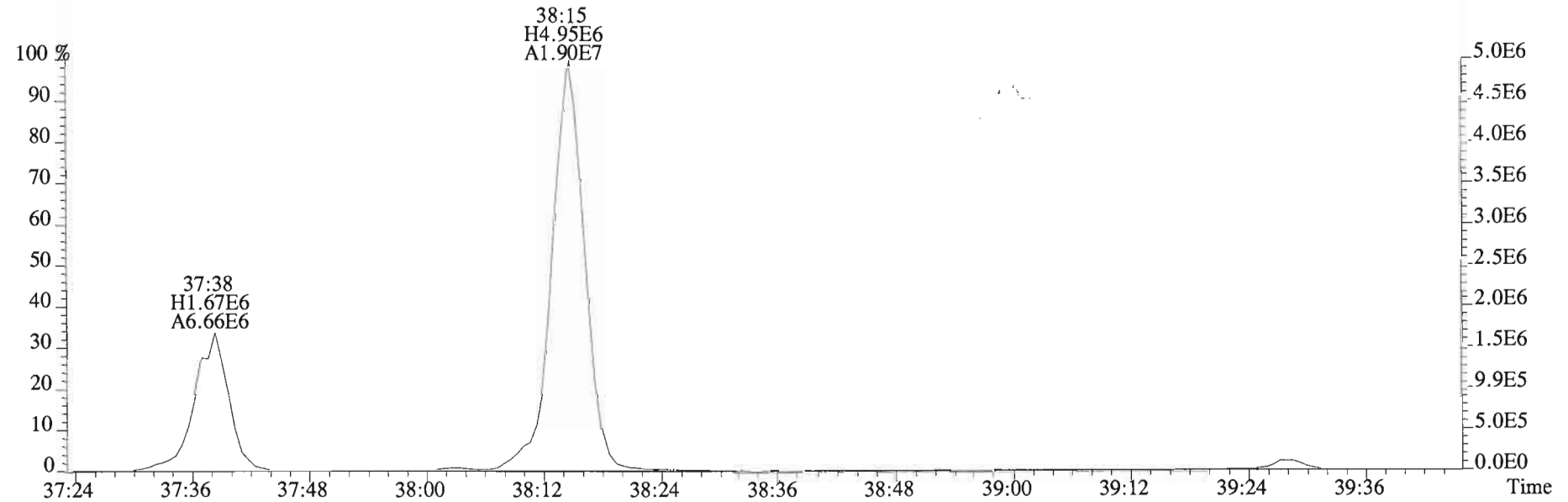
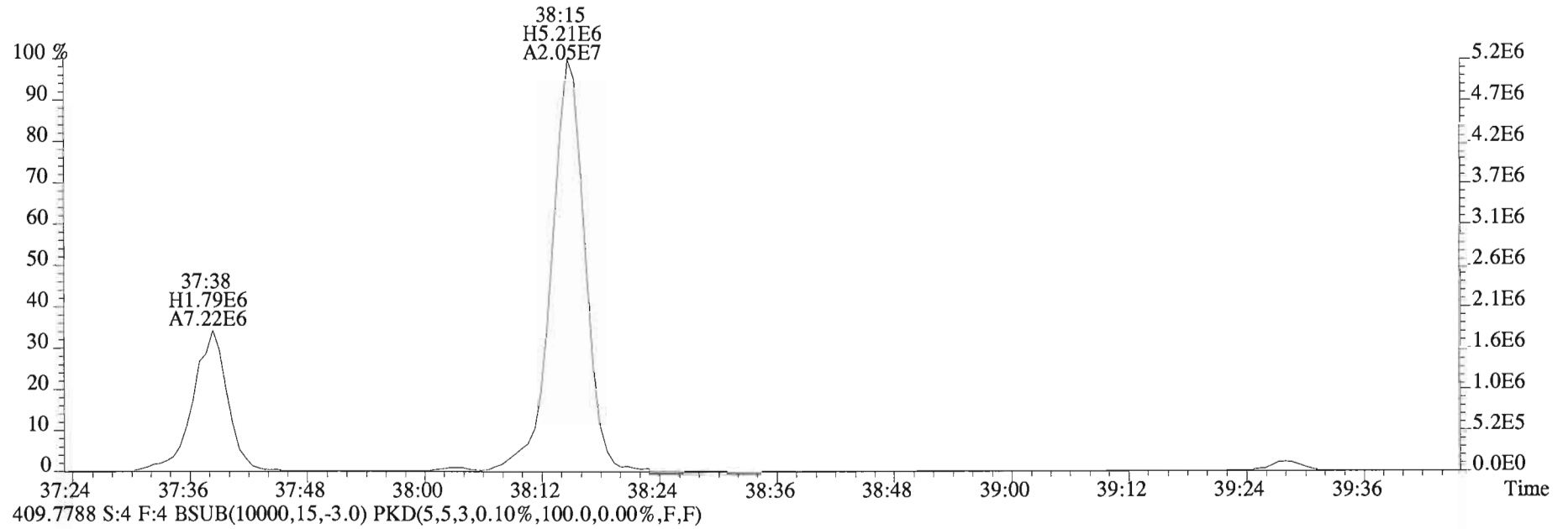
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



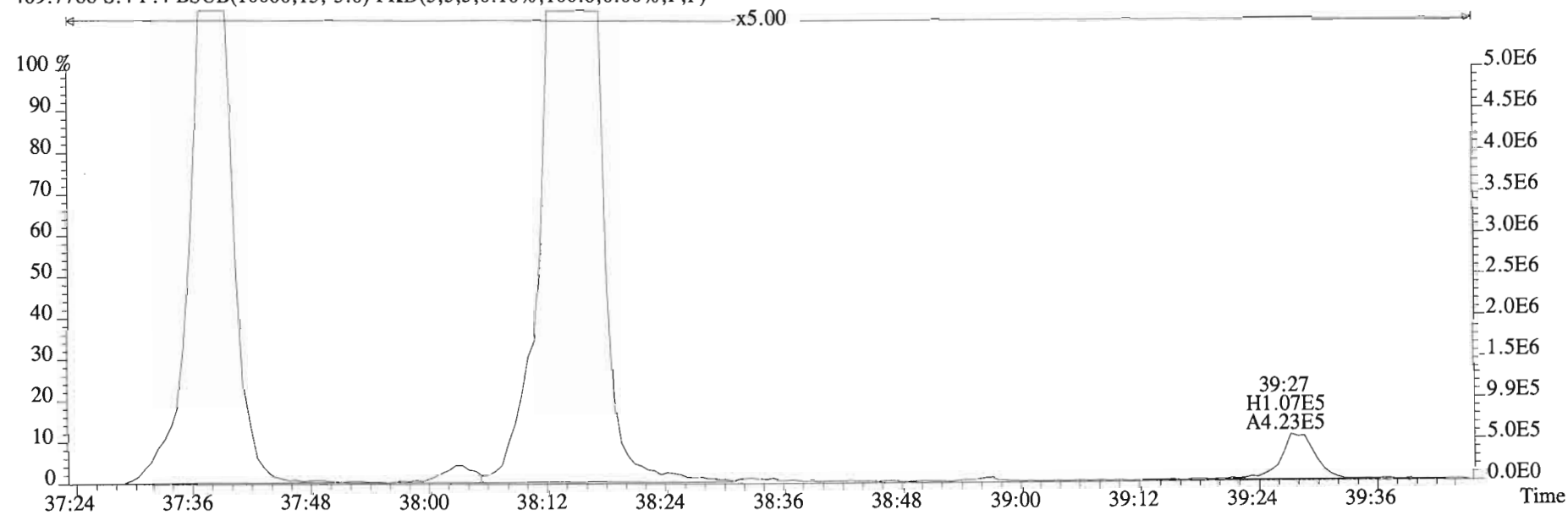
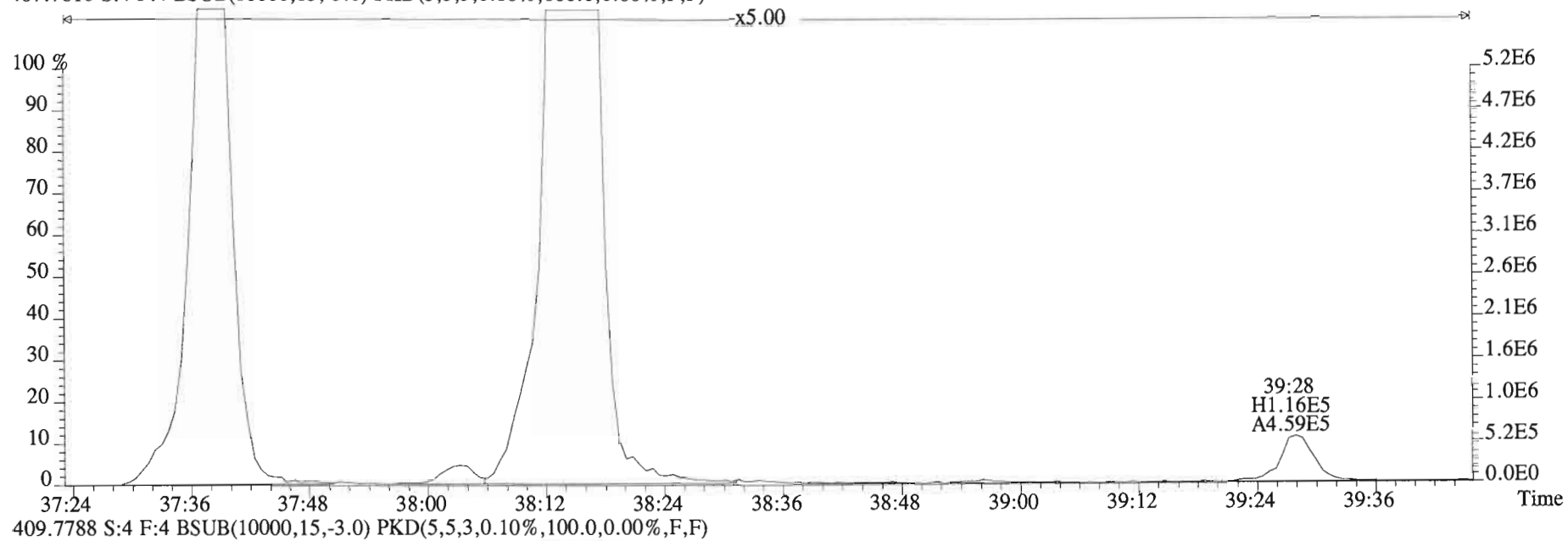
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



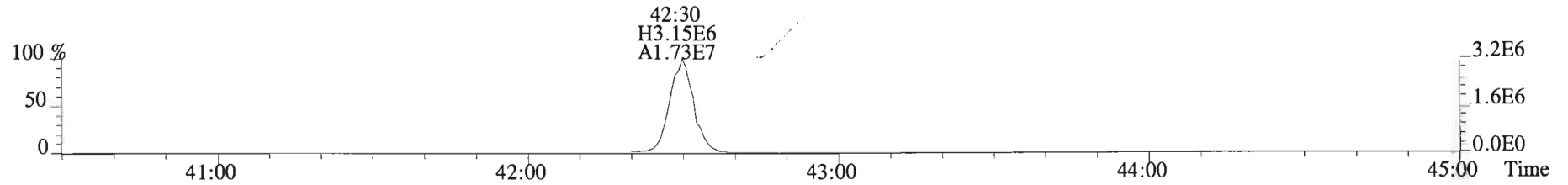
File:150220D2 #1-326 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



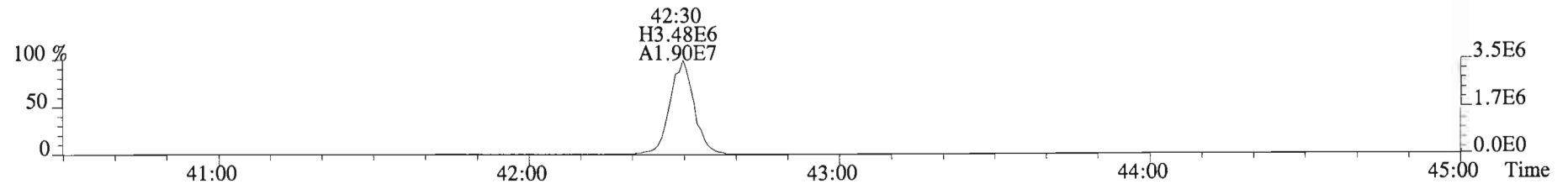
File:150220D2 #1-326 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



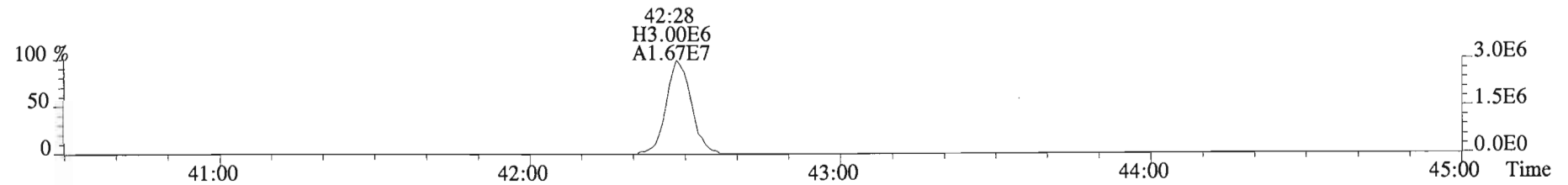
File:150220D2 #1-388 Acq:21-FEB-2015 03:31:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-7 Text:1500166-04 ST-CB-08-20150210-S 20.6 Exp:OCDD_DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



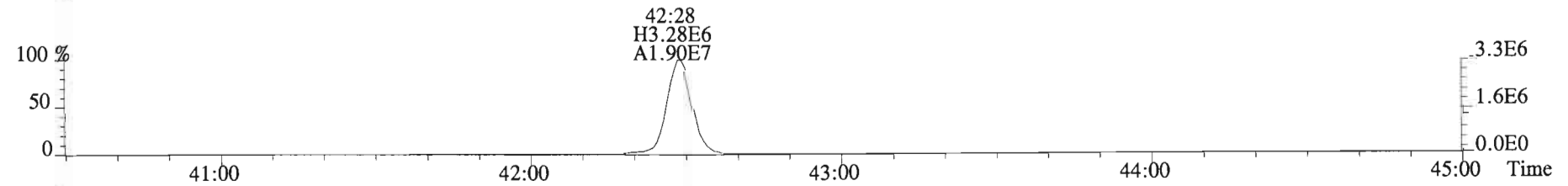
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



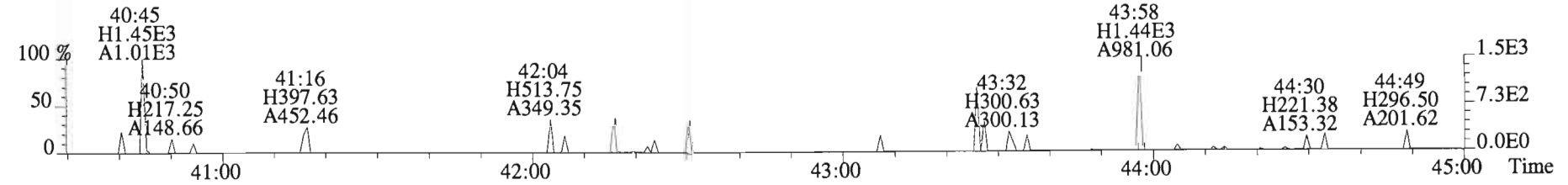
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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: ST-CB-04A-20150210-S Filename: 150220D2 S:5 Acq:21-FEB-15 04:20:38
 Lab ID: 1500166-05 GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol:10.271

ConCal: ST150220D2-1
 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	5.05e+04	0.51 n	1.17	27:00	1.001	0.30152		*	2.5	*	Total Tetra-Dioxins	2.60	5.37	*	*	
1,2,3,7,8-PeCDD	2.47e+05	0.66 y	0.91	31:37	1.000	1.9198		*	2.5	*	Total Penta-Dioxins	17.4	17.4	*	*	
1,2,3,4,7,8-HxCDD	4.92e+05	1.16 y	1.08	34:59	1.000	4.5001		*	2.5	*	Total Hexa-Dioxins	294	294	*	*	
1,2,3,6,7,8-HxCDD	2.32e+06	1.20 y	1.06	35:06	1.000	22.375		*	2.5	*	Total Hepta-Dioxins	3220	3220	*	*	
1,2,3,7,8,9-HxCDD	9.98e+05	1.24 y	0.93	35:23	1.000	9.2077		*	2.5	*	Total Tetra-Furans	26.3	27.0	*	*	
1,2,3,4,6,7,8-HpCDD	8.88e+07	1.04 y	1.10	38:56	1.000	822.51		*	2.5	*	Total Penta-Furans	45.509	45.578	*	*	
OCDD	7.47e+08	0.90 y	0.95	42:18	1.000	9421.4		*	2.5	*	Total Hexa-Furans	131	131	*	*	
											Total Hepta-Furans	319	319	*	*	
2,3,7,8-TCDF	3.60e+05	0.85 y	1.07	26:11	1.001	1.6481 (1.41)		*	2.5	*						
1,2,3,7,8-PeCDF	3.32e+05	1.64 y	1.07	30:25	1.000	1.5782		*	2.5	*						
2,3,4,7,8-PeCDF	5.99e+05	1.69 y	1.03	31:20	1.000	2.8804		*	2.5	*						
1,2,3,4,7,8-HxCDF	1.28e+06	1.31 y	1.38	34:05	1.000	6.6028		*	2.5	*						
1,2,3,6,7,8-HxCDF	7.14e+05	1.35 y	1.26	34:12	1.000	3.6121		*	2.5	*						
2,3,4,6,7,8-HxCDF	9.60e+05	1.29 y	1.29	34:49	1.000	5.1322		*	2.5	*						
1,2,3,7,8,9-HxCDF	6.58e+04	1.25 y	1.19	35:45	1.000	0.45380		*	2.5	*						
1,2,3,4,6,7,8-HpCDF	1.34e+07	1.07 y	1.61	37:38	1.000	83.749		*	2.5	*						
1,2,3,4,7,8,9-HpCDF	8.35e+05	1.04 y	1.53	39:28	1.000	5.9451		*	2.5	*						
OCDF	2.85e+07	0.91 y	1.10	42:30	1.000	286.77		*	2.5	*						
											Rec	Qual				
IS 13C-2,3,7,8-TCDD	2.78e+07	0.81 y	1.06	26:59	1.022	178.21					91.5					
IS 13C-1,2,3,7,8-PeCDD	2.76e+07	0.60 y	1.18	31:37	1.197	158.94					81.6					
IS 13C-1,2,3,4,7,8-HxCDD	1.98e+07	1.23 y	0.72	34:59	1.014	163.51					84.0					
IS 13C-1,2,3,6,7,8-HxCDD	1.89e+07	1.26 y	0.74	35:05	1.017	153.26					78.7					
IS 13C-1,2,3,7,8,9-HxCDD	2.27e+07	1.23 y	0.85	35:23	1.026	158.26					81.3					
IS 13C-1,2,3,4,6,7,8-HpCDD	1.90e+07	1.07 y	0.65	38:56	1.129	173.42					89.1					
IS 13C-OCDD	3.26e+07	0.89 y	0.76	42:17	1.226	253.91					65.2					
IS 13C-2,3,7,8-TCDF	3.97e+07	0.79 y	0.92	26:10	0.991	181.74					93.3					
IS 13C-1,2,3,7,8-PeCDF	3.81e+07	1.58 y	0.92	30:24	1.152	173.74					89.2					
IS 13C-2,3,4,7,8-PeCDF	3.92e+07	1.59 y	0.93	31:19	1.186	177.01					90.9					
IS 13C-1,2,3,4,7,8-HxCDF	2.72e+07	0.51 y	0.98	34:04	0.988	165.57					85.0					
IS 13C-1,2,3,6,7,8-HxCDF	3.06e+07	0.51 y	1.08	34:12	0.992	168.47					86.5					
IS 13C-2,3,4,6,7,8-HxCDF	2.82e+07	0.52 y	1.03	34:48	1.009	164.06					84.3					
IS 13C-1,2,3,7,8,9-HxCDF	2.38e+07	0.50 y	0.86	35:45	1.037	164.84					84.7					
IS 13C-1,2,3,4,6,7,8-HpCDF	1.94e+07	0.44 y	0.72	37:37	1.091	160.14					82.2					
IS 13C-1,2,3,4,7,8,9-HpCDF	1.79e+07	0.44 y	0.70	39:27	1.144	153.23					78.7					
IS 13C-OCDF	3.53e+07	0.87 y	0.85	42:29	1.232	247.62					63.6					
C/Up 37Cl-2,3,7,8-TCDD	1.34e+07		1.12	26:60	1.022	81.353					104					
												Integrations	Reviewed			
												by	by			
RS/RT 13C-1,2,3,4-TCDD	2.87e+07	0.79 y	1.00	26:24	*	194.73					Analyst: <u>MS</u>	Analyst: <u>MC</u>				
RS 13C-1,2,3,4-TCDF	4.63e+07	0.79 y	1.00	24:55	*	194.73										
RS/RT 13C-1,2,3,4,6,9-HxCDF	3.27e+07	0.52 y	1.00	34:29	*	194.73										
											Date: <u>2/24/15</u>	Date: <u>2/26/15</u>				

Totals class: TCDD EMPC

Entry #: 19

Run: 10 File: 150220D2 S: 5 I: 1 F: 1
 Acquired: 21-FEB-15 04:20:38 Processed: 21-FEB-15 08:16:18

Total Concentration: 5.3709

Unnamed Concentration: 5.069

RT	m1 Resp	m2 Resp	RA		Resp Concentration		Name
23:27	1.006e+05	1.575e+05	0.64	n	2.312e+05	1.3813	
23:50	5.723e+04	8.087e+04	0.71	y	1.381e+05	0.82512	
24:16	1.857e+04	1.918e+04	0.97	n	3.395e+04	0.20282	
25:03	2.265e+04	3.030e+04	0.75	y	5.295e+04	0.31639	
25:17	3.096e+04	4.928e+04	0.63	n	7.117e+04	0.42523	
25:27	3.773e+04	5.310e+04	0.71	y	9.083e+04	0.54268	
25:39	1.159e+04	1.719e+04	0.67	y	2.878e+04	0.17197	
25:52	8.288e+03	7.247e+03	1.14	n	1.283e+04	0.076639	
26:03	1.146e+04	2.031e+04	0.56	n	2.634e+04	0.15739	
26:25	2.545e+04	3.122e+04	0.82	y	5.667e+04	0.33858	
26:44	3.123e+04	3.638e+04	0.86	y	6.760e+04	0.40392	
27:00	2.195e+04	4.334e+04	0.51	n	5.047e+04	0.30152	2,3,7,8-TCDD
27:17	1.228e+04	2.186e+04	0.56	n	2.823e+04	0.16866	
27:25	4.995e+03	5.545e+03	0.90	n	9.815e+03	0.058639	

Totals class: PeCDD EMPC

Entry #: 21

Run: 10 File: 150220D2 S: 5 I: 1 F: 2
 Acquired: 21-FEB-15 04:20:38 Processed: 21-FEB-15 08:16:18

Total Concentration: 17.394 Unnamed Concentration: 15.474

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
29:32	1.926e+05	3.233e+05	0.60	y	5.160e+05	4.0112
29:59	9.484e+04	1.481e+05	0.64	y	2.429e+05	1.8884
30:26	1.006e+05	1.640e+05	0.61	y	2.646e+05	2.0569
30:36	9.570e+04	1.698e+05	0.56	y	2.655e+05	2.0639
30:42	6.553e+04	1.145e+05	0.57	y	1.801e+05	1.3998
30:55	1.069e+05	1.734e+05	0.62	y	2.803e+05	2.1791
31:13	4.026e+04	6.686e+04	0.60	y	1.071e+05	0.83278
31:37	9.806e+04	1.489e+05	0.66	y	2.469e+05	1.9198
31:42	2.486e+04	4.307e+04	0.58	y	6.793e+04	0.52811
31:59	2.682e+04	3.933e+04	0.68	y	6.615e+04	0.51425

1,2,3,7,8-PeCDD

Totals class: HxCDD EMPC

Entry #: 23

Run: 10 File: 150220D2 S: 5 I: 1 F: 3
Acquired: 21-FEB-15 04:20:38 Processed: 21-FEB-15 08:16:18

Total Concentration: 293.56

Unnamed Concentration: 257.476

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
33:27	7.309e+06	5.811e+06	1.26	y	1.312e+07	122.50
34:01	8.719e+05	6.941e+05	1.26	y	1.566e+06	14.622
34:16	5.821e+06	4.594e+06	1.27	y	1.042e+07	97.251
34:25	1.059e+06	8.743e+05	1.21	y	1.934e+06	18.054
34:59	2.649e+05	2.275e+05	1.16	y	4.924e+05	4.5001 1,2,3,4,7,8-HxCDD
35:06	1.262e+06	1.054e+06	1.20	y	2.317e+06	22.375 1,2,3,6,7,8-HxCDD
35:18	2.971e+05	2.434e+05	1.22	y	5.406e+05	5.0475
35:23	5.532e+05	4.448e+05	1.24	y	9.980e+05	9.2077 1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC

Entry #: 25

Run: 10 File: 150220D2 S: 5 I: 1 F: 4
Acquired: 21-FEB-15 04:20:38 Processed: 21-FEB-15 08:16:18

Total Concentration: 3217.3 Unnamed Concentration: 2394.841

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
38:03	1.308e+08	1.276e+08	1.02	y	2.584e+08	2394.8
38:56	4.514e+07	4.361e+07	1.04	y	8.876e+07	822.51 1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC

Entry #: 27

Run: 10 File: 150220D2 S: 5 I: 1 F: 1
 Acquired: 21-FEB-15 04:20:38 Processed: 21-FEB-15 08:16:18

Total Concentration: 27.011 Unnamed Concentration: 25.363

RT	ml Resp	m2 Resp	RA		Resp Concentration	Name
21:17	4.154e+04	5.357e+04	0.78	y	9.511e+04	0.43582
21:51	8.011e+04	1.002e+05	0.80	y	1.803e+05	0.82617
22:28	2.753e+05	3.528e+05	0.78	y	6.281e+05	2.8782
23:02	2.741e+05	3.441e+05	0.80	y	6.182e+05	2.8328
23:26	2.287e+05	2.911e+05	0.79	y	5.198e+05	2.3818
23:52	1.721e+05	2.079e+05	0.83	y	3.800e+05	1.7412
24:00	1.027e+05	1.187e+05	0.87	y	2.213e+05	1.0142
24:11	1.521e+05	1.972e+05	0.77	y	3.493e+05	1.6007
24:33	3.174e+04	4.838e+04	0.66	y	8.012e+04	0.36712
24:40	7.199e+04	8.388e+04	0.86	y	1.559e+05	0.71423
24:48	1.779e+05	2.446e+05	0.73	y	4.225e+05	1.9362
24:56	1.561e+05	2.147e+05	0.73	y	3.708e+05	1.6993
25:23	1.270e+05	1.780e+05	0.71	y	3.049e+05	1.3973
25:37	7.643e+04	8.539e+04	0.90	n	1.511e+05	0.69259
25:48	4.374e+04	5.755e+04	0.76	y	1.013e+05	0.46412
25:59	8.460e+04	1.178e+05	0.72	y	2.024e+05	0.92734
26:06	5.829e+04	7.350e+04	0.79	y	1.318e+05	0.60387
26:11	1.657e+05	1.939e+05	0.85	y	3.597e+05	1.6481
26:32	2.163e+05	2.666e+05	0.81	y	4.829e+05	2.2128
26:46	2.271e+04	2.834e+04	0.80	y	5.105e+04	0.23392
27:34	6.802e+03	8.358e+03	0.81	y	1.516e+04	0.069469
27:45	7.864e+03	9.625e+03	0.82	y	1.749e+04	0.080142
28:01	2.396e+04	3.141e+04	0.76	y	5.537e+04	0.25371

2,3,7,8-TCDF

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 10 File: 150220D2 S: 5 I: 1 F: 1
Acquired: 21-FEB-15 04:20:38 Processed: 21-FEB-15 08:16:18

Total Concentration: 20.055 Unnamed Concentration: 20.055

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
28:01	2.549e+06	1.643e+06	1.55 y	4.192e+06	20.055

Totals class: PeCDF EMPC

Entry #: 31

Run: 10 File: 150220D2 S: 5 I: 1 F: 2
 Acquired: 21-FEB-15 04:20:38 Processed: 21-FEB-15 08:16:18

Total Concentration: 25.522 Unnamed Concentration: 21.064

RT	m1 Resp	m2 Resp	RA		Resp Concentration		Name
29:21	2.296e+05	1.435e+05	1.60	y	3.731e+05	1.7848	
29:29	1.198e+06	7.563e+05	1.58	y	1.954e+06	9.3487	
29:50	3.865e+04	2.323e+04	1.66	y	6.188e+04	0.29606	
30:03	4.691e+05	2.965e+05	1.58	y	7.656e+05	3.6626	
30:15	8.963e+04	5.608e+04	1.60	y	1.457e+05	0.69710	
30:25	2.059e+05	1.257e+05	1.64	y	3.316e+05	1.5782	1,2,3,7,8-PeCDF
30:40	2.957e+05	1.977e+05	1.50	y	4.934e+05	2.3603	
30:48	8.700e+03	6.797e+03	1.28	n	1.431e+04	0.068476	
31:07	1.550e+04	1.133e+04	1.37	y	2.683e+04	0.12836	
31:14	1.196e+05	7.344e+04	1.63	y	1.931e+05	0.92369	
31:20	3.760e+05	2.227e+05	1.69	y	5.987e+05	2.8804	2,3,4,7,8-PeCDF
31:23	1.998e+05	1.315e+05	1.52	y	3.313e+05	1.5849	
32:14	2.695e+04	1.666e+04	1.62	y	4.361e+04	0.20864	

Totals class: HxCDF EMPC

Entry #: 33

Run: 10 File: 150220D2 S: 5 I: 1 F: 3
 Acquired: 21-FEB-15 04:20:38 Processed: 21-FEB-15 08:16:18

Total Concentration: 131.31 Unnamed Concentration: 115.512

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
32:54	1.465e+06	1.088e+06	1.35 y	2.553e+06	14.117
33:04	4.155e+06	3.134e+06	1.33 y	7.288e+06	40.295
33:25	8.884e+04	6.538e+04	1.36 y	1.542e+05	0.85266
33:37	5.821e+06	4.516e+06	1.29 y	1.034e+07	57.152
33:59	1.317e+05	1.086e+05	1.21 y	2.404e+05	1.3289
34:05	7.263e+05	5.531e+05	1.31 y	1.279e+06	6.6028
34:12	4.103e+05	3.039e+05	1.35 y	7.142e+05	3.6121
34:30	3.051e+04	2.483e+04	1.23 y	5.534e+04	0.30597
34:49	5.404e+05	4.196e+05	1.29 y	9.600e+05	5.1322
35:45	3.652e+04	2.928e+04	1.25 y	6.580e+04	0.45380
35:49	1.540e+05	1.102e+05	1.40 y	2.642e+05	1.4607

Totals class: HpCDF EMPC

Entry #: 35

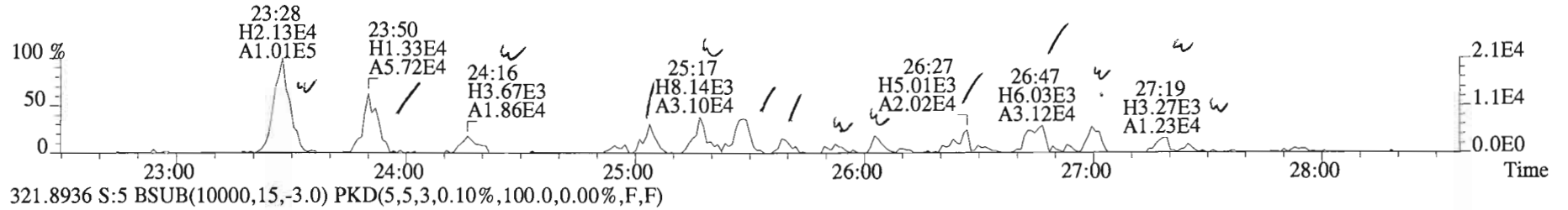
Run: 10 File: 150220D2 S: 5 I: 1 F: 4
Acquired: 21-FEB-15 04:20:38 Processed: 21-FEB-15 08:16:18

Total Concentration: 318.85

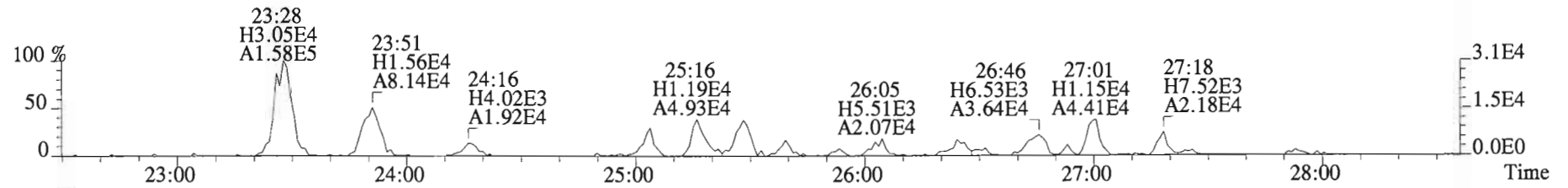
Unnamed Concentration: 229.159

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
37:38	6.960e+06	6.488e+06	1.07 y	1.345e+07	83.749	1,2,3,4,6,7,8-HpCDF
38:03	1.756e+05	1.614e+05	1.09 y	3.370e+05	2.2407	
38:15	1.778e+07	1.635e+07	1.09 y	3.413e+07	226.92	
39:28	4.254e+05	4.098e+05	1.04 y	8.352e+05	5.9451	1,2,3,4,7,8,9-HpCDF

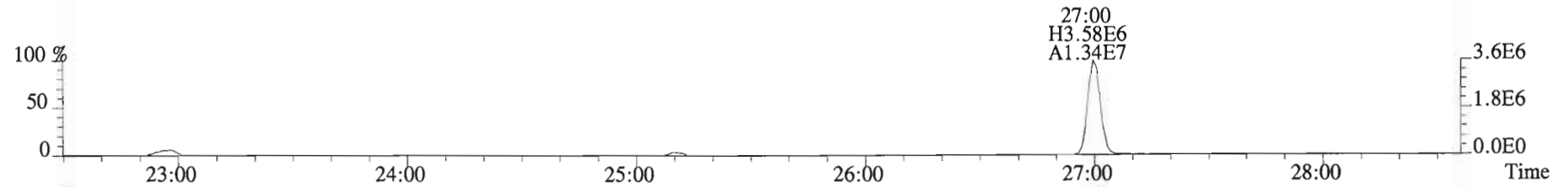
File:150220D2 #1-552 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



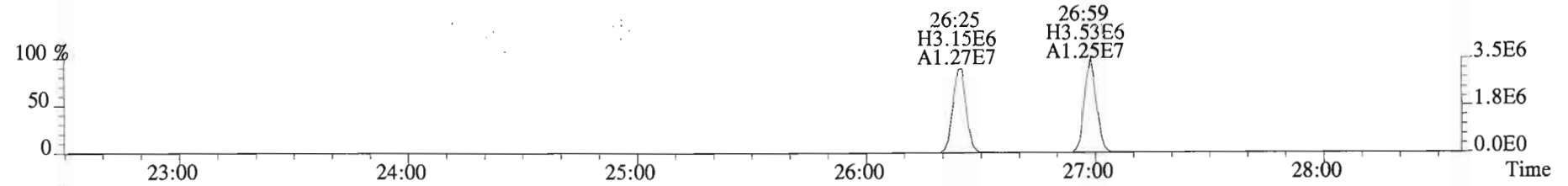
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



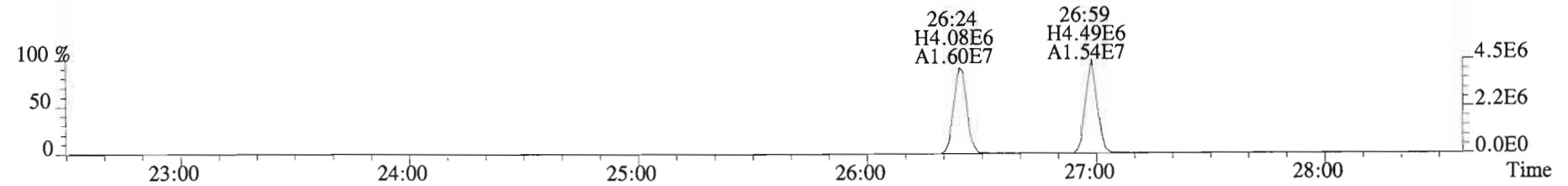
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



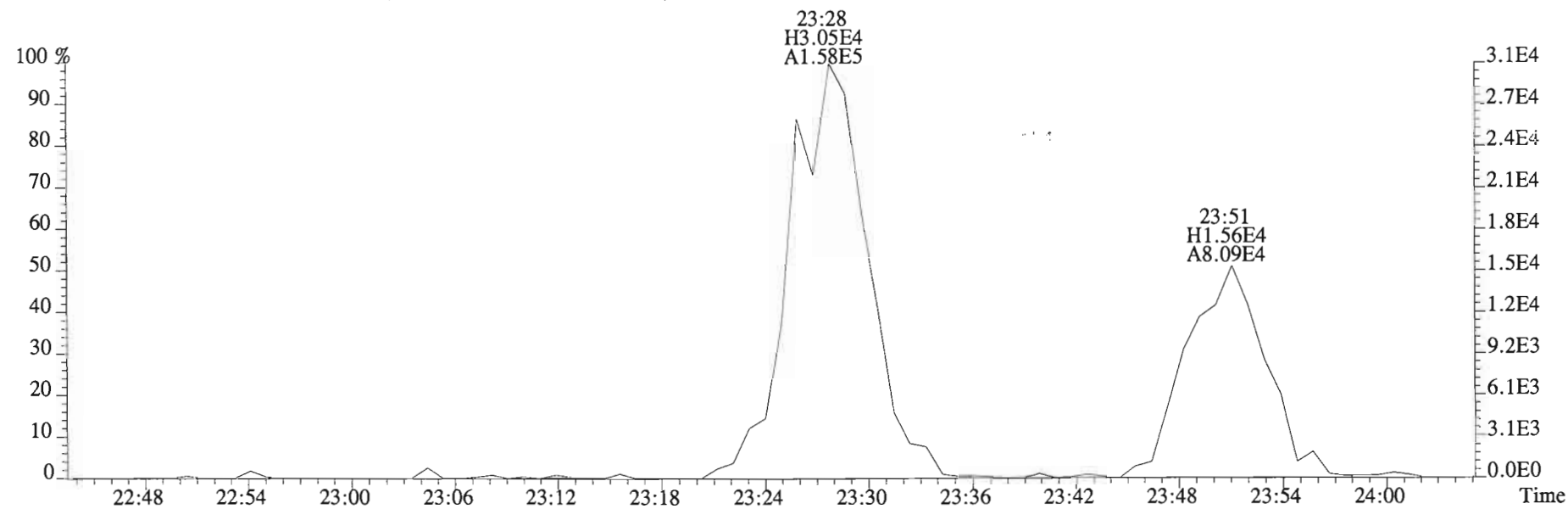
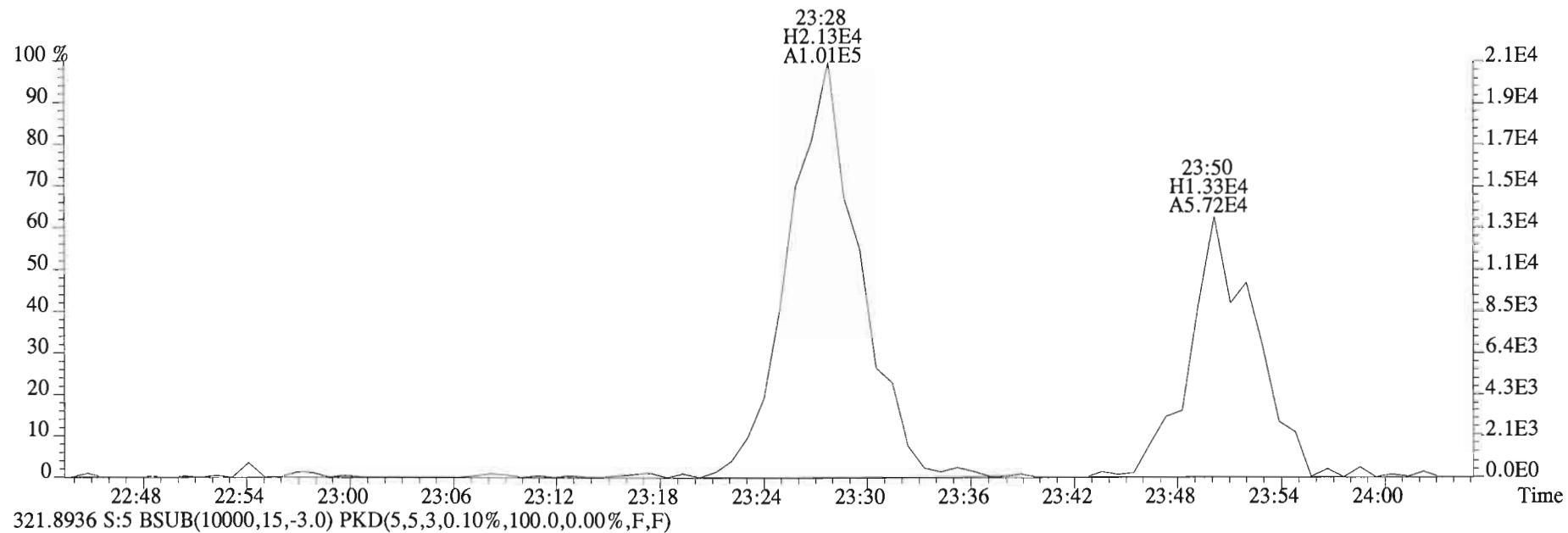
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



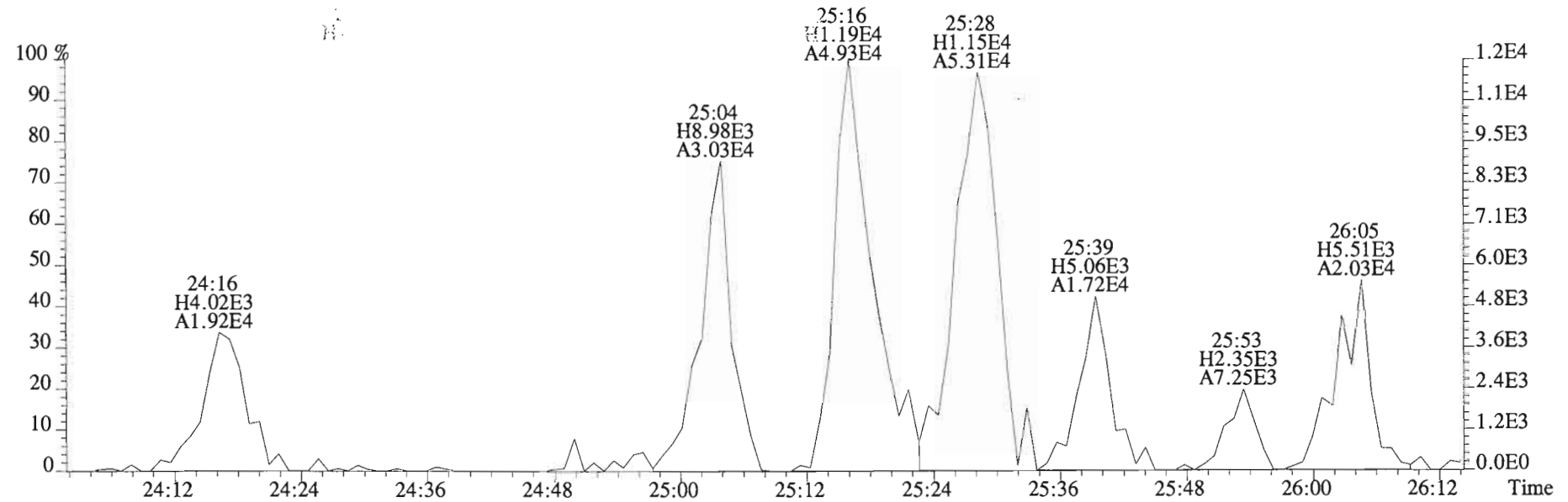
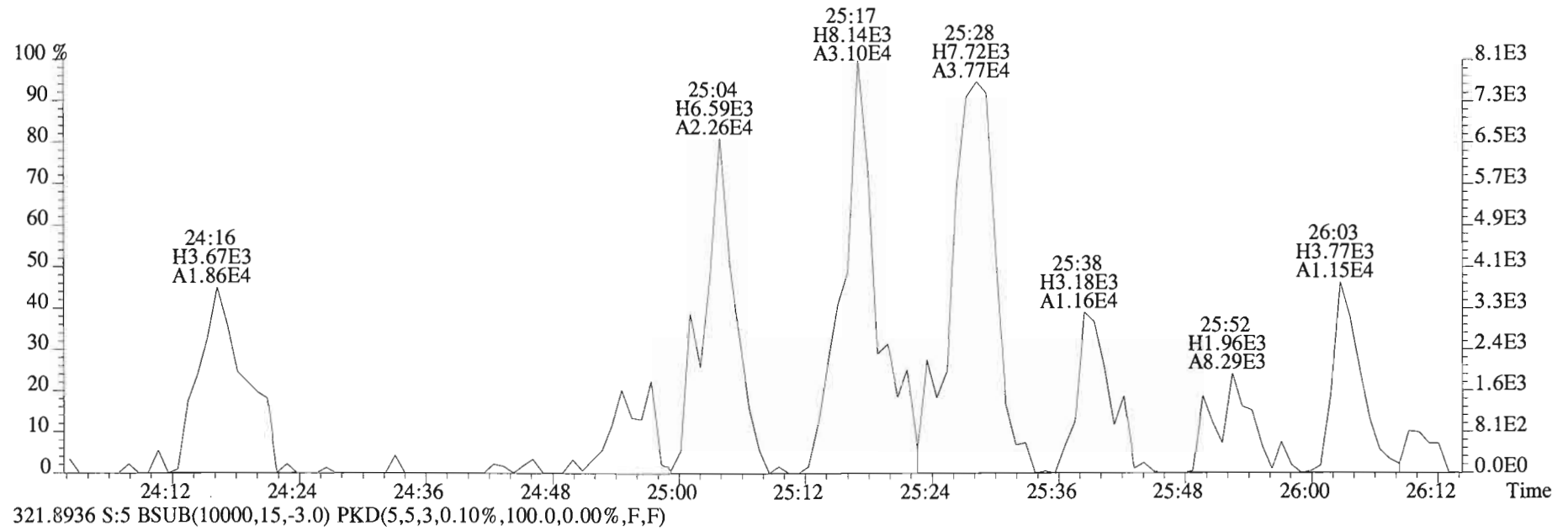
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



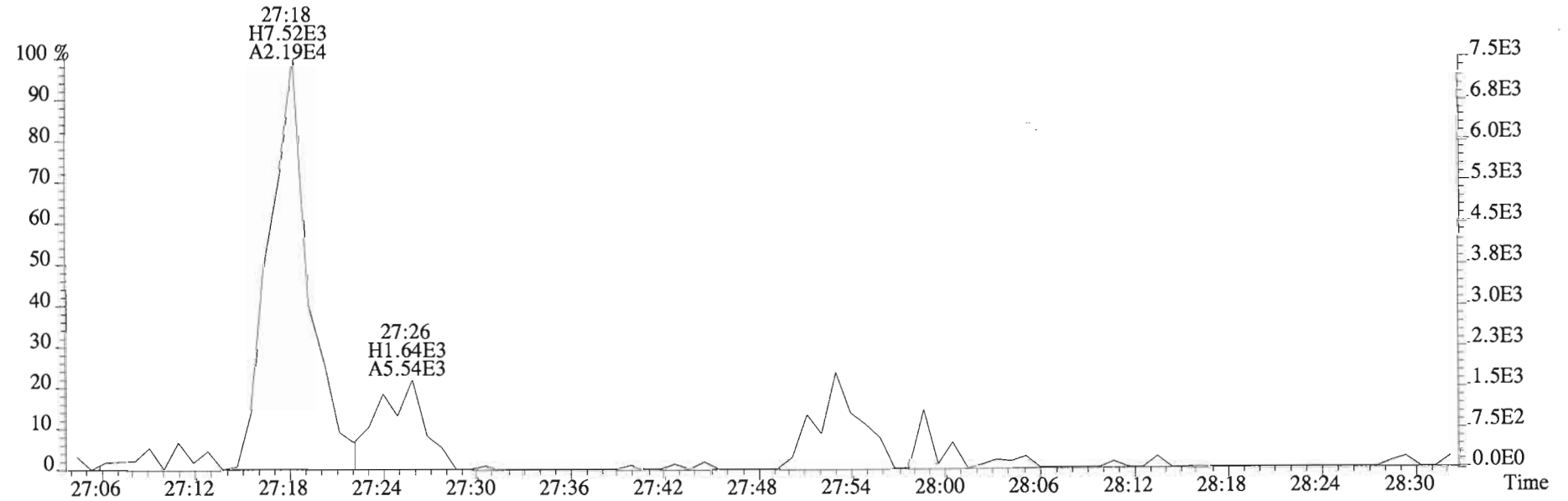
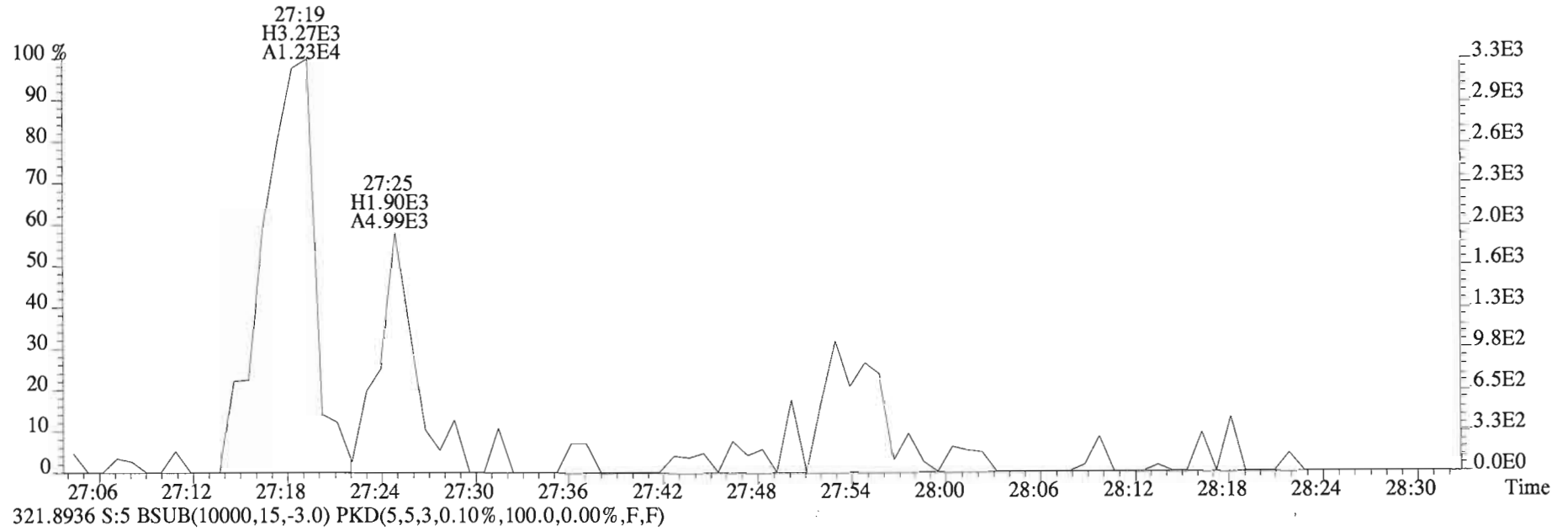
File:150220D2 #1-552 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



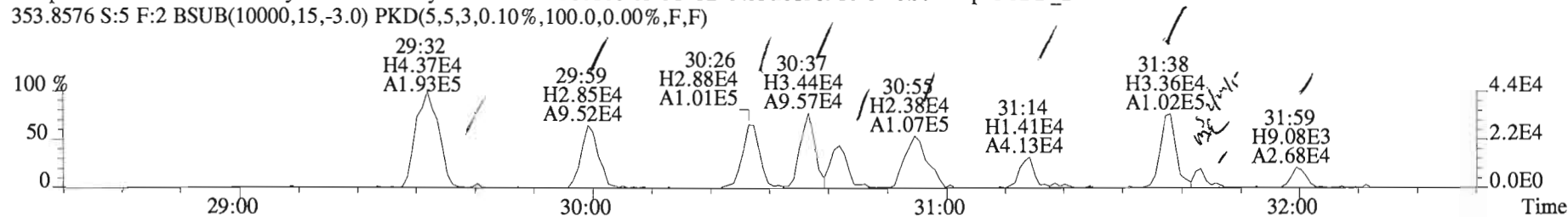
File:150220D2 #1-552 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
 319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



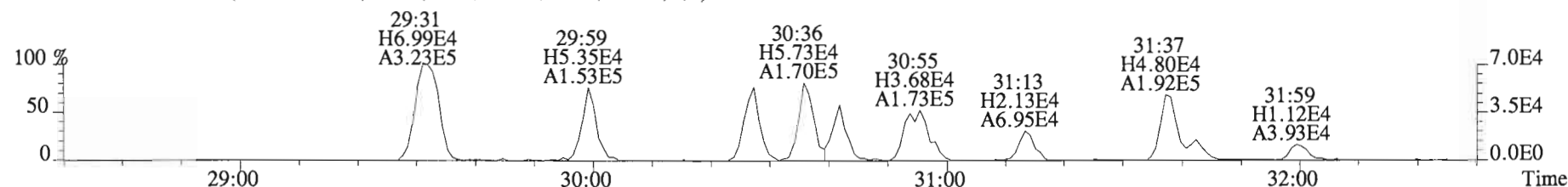
File:150220D2 #1-552 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



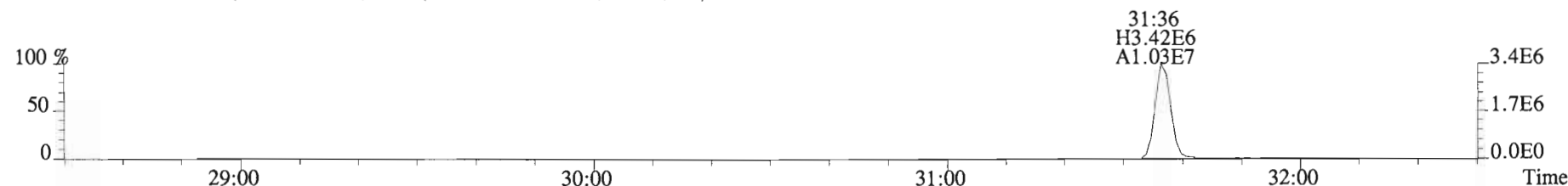
File:150220D2 #1-251 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
 353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



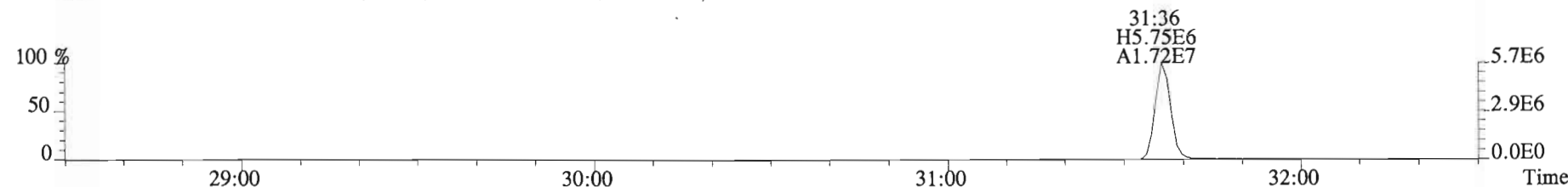
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



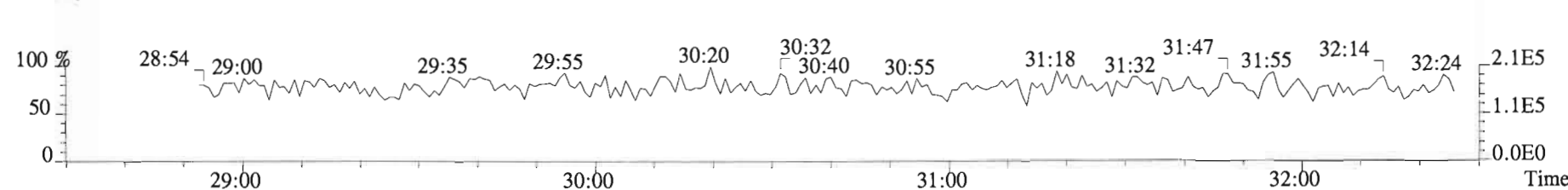
365.8978 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



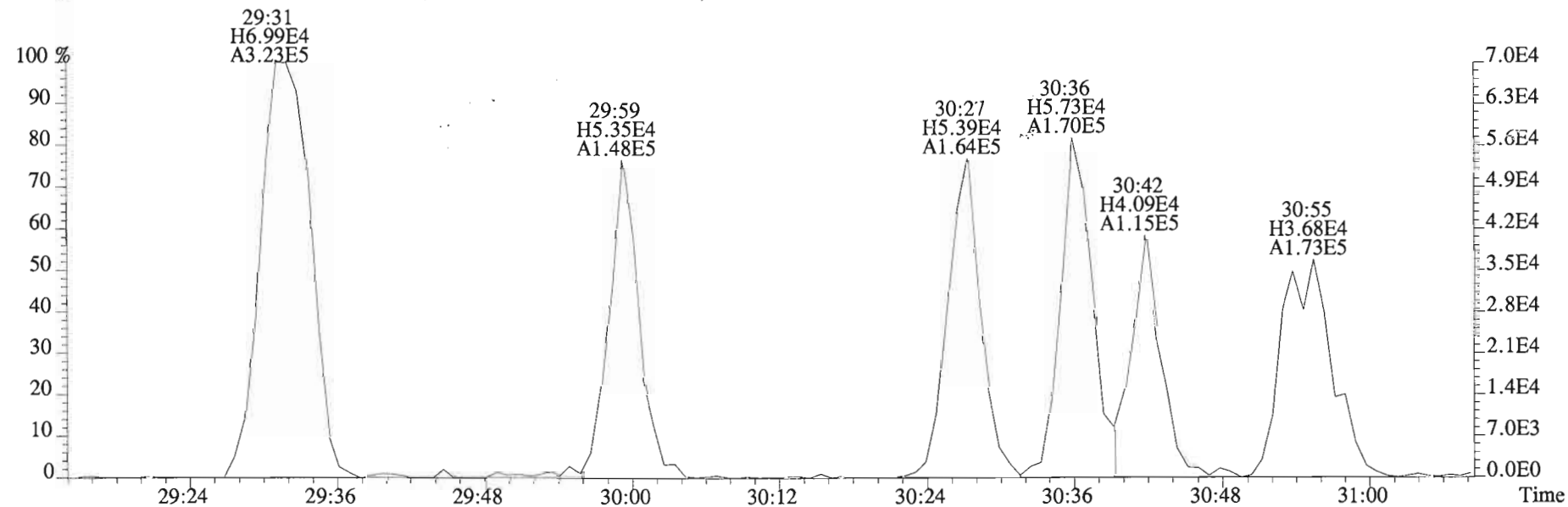
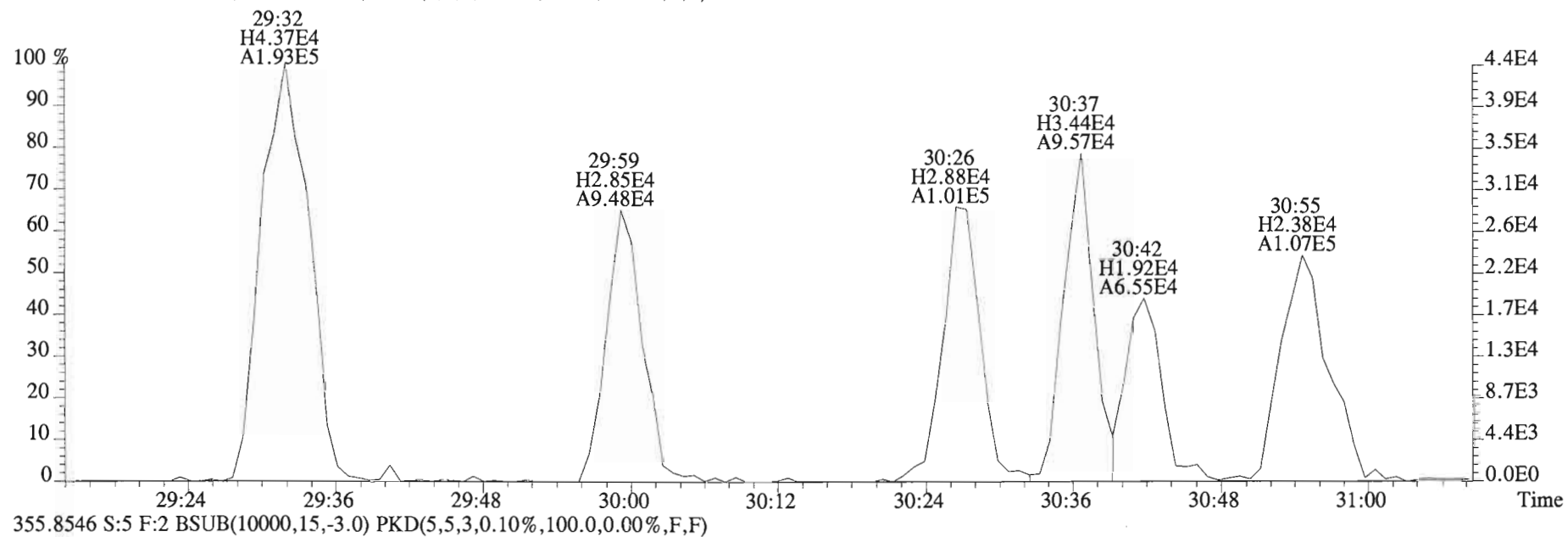
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



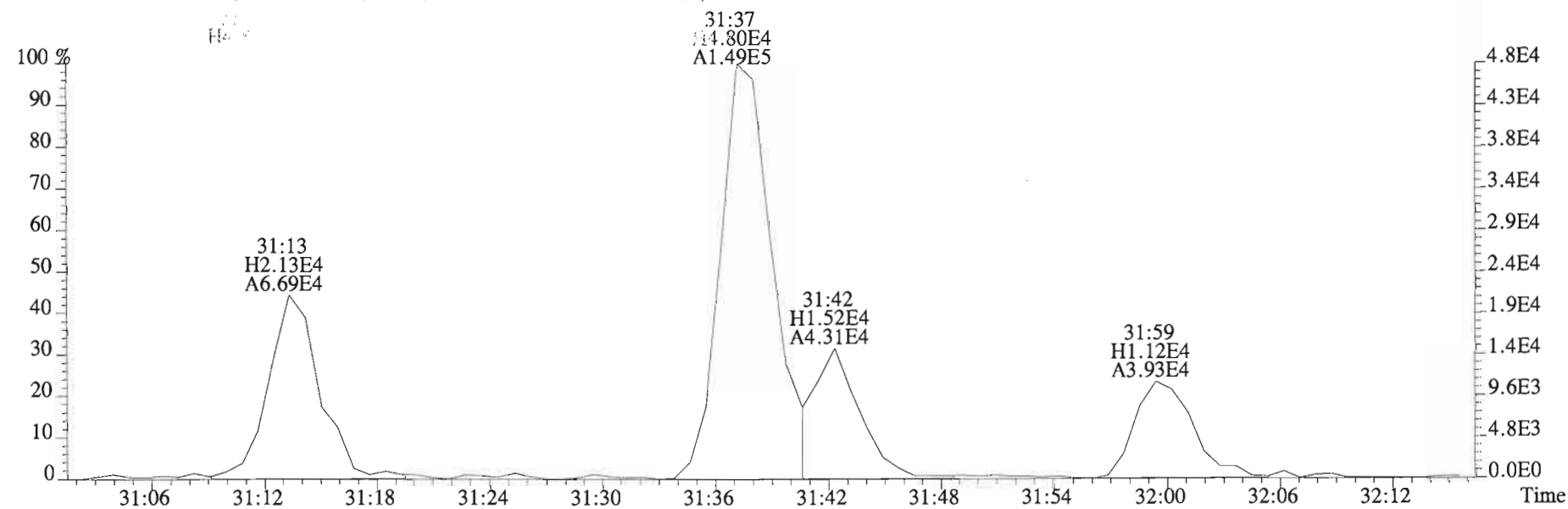
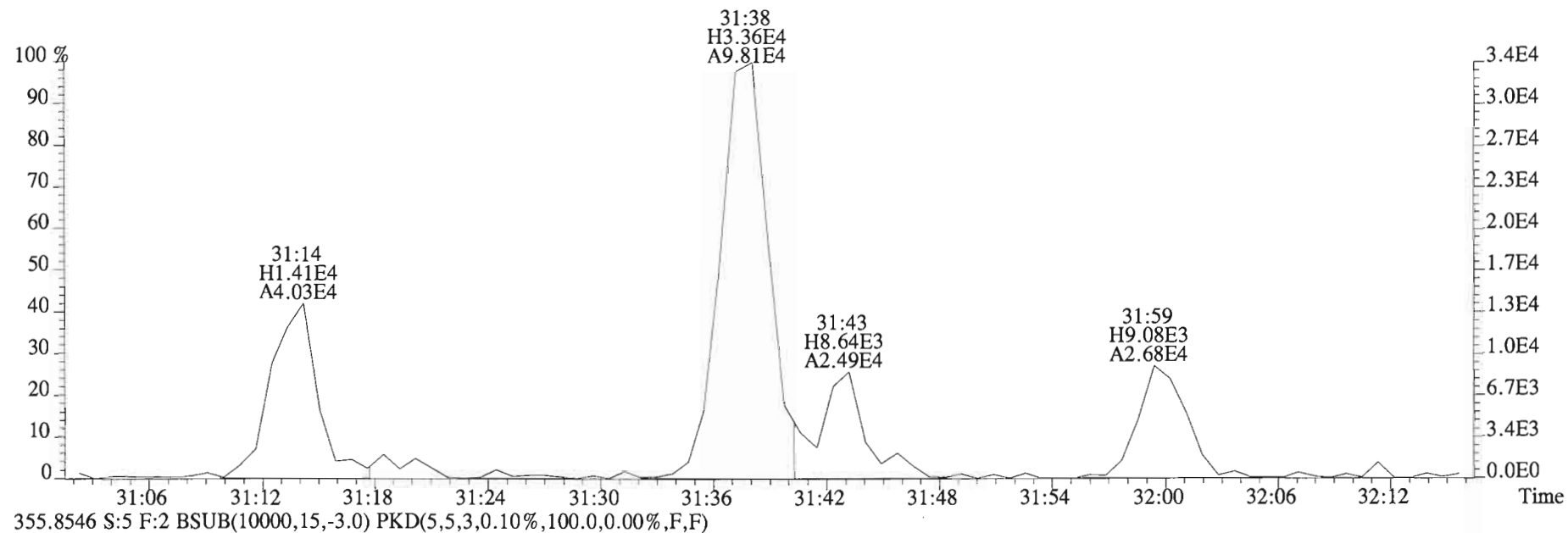
366.9792 S:5 F:2



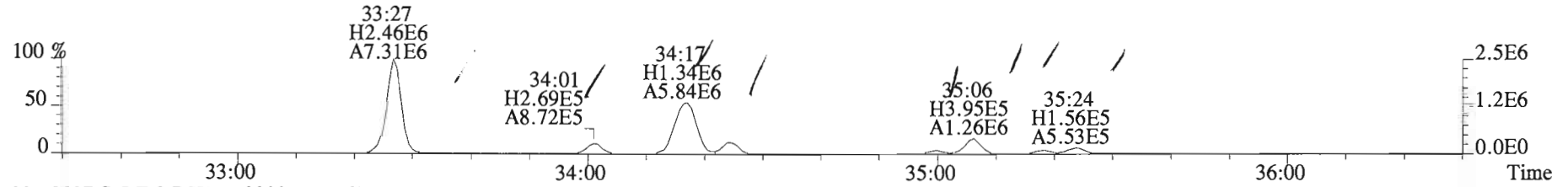
File:150220D2 #1-251 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
 353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



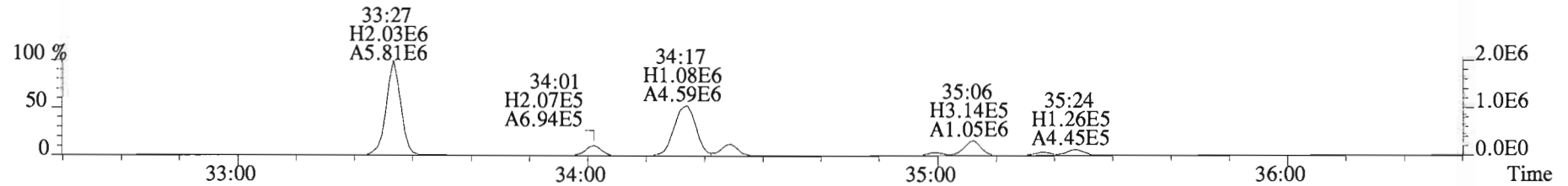
File:150220D2 #1-251 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



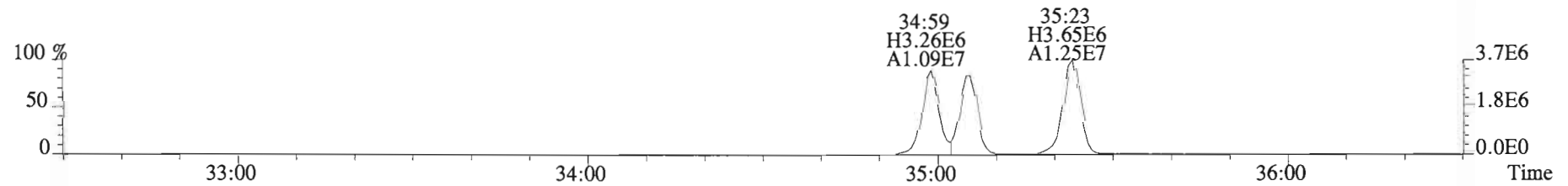
File:150220D2 #1-392 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
 389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



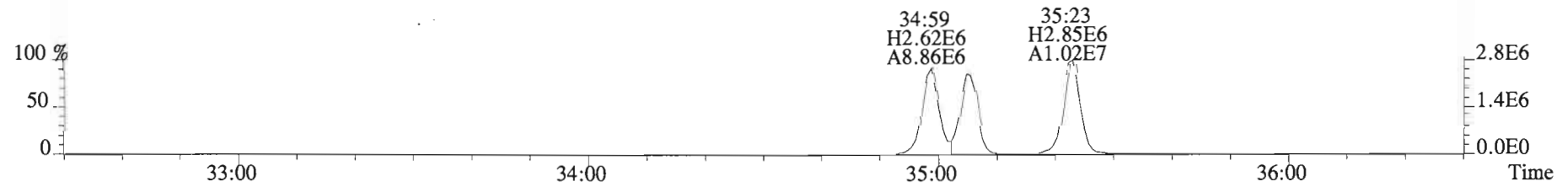
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



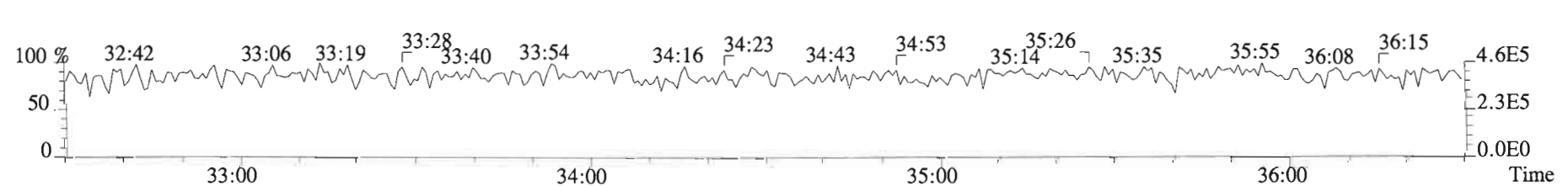
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



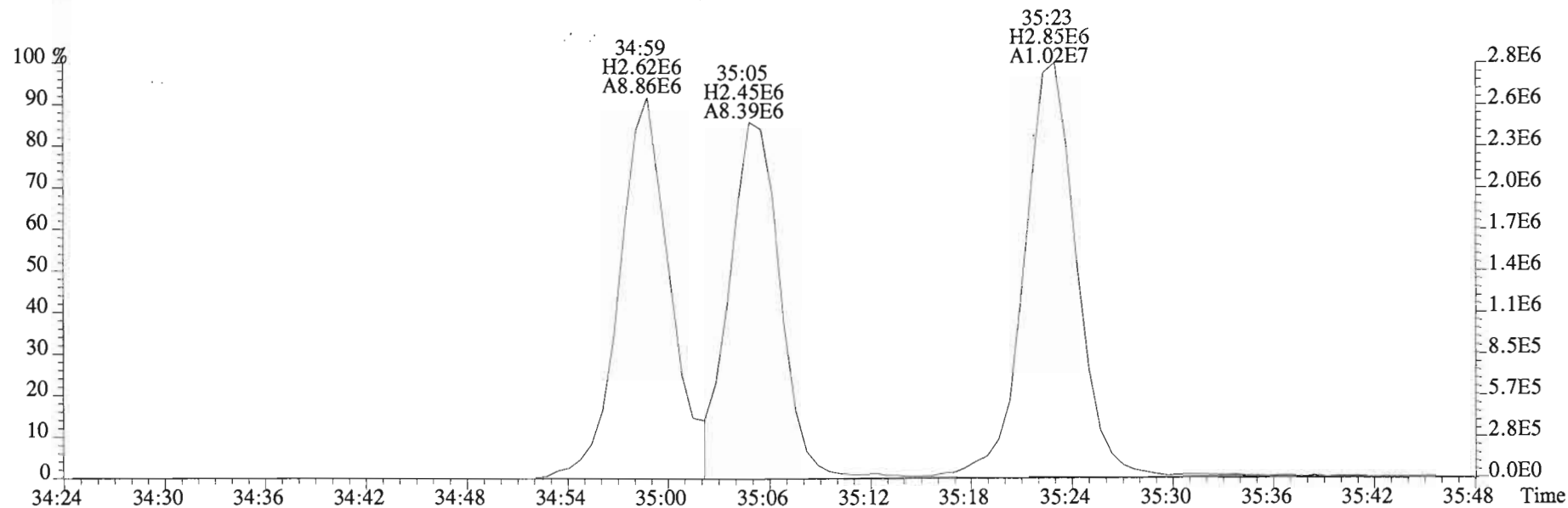
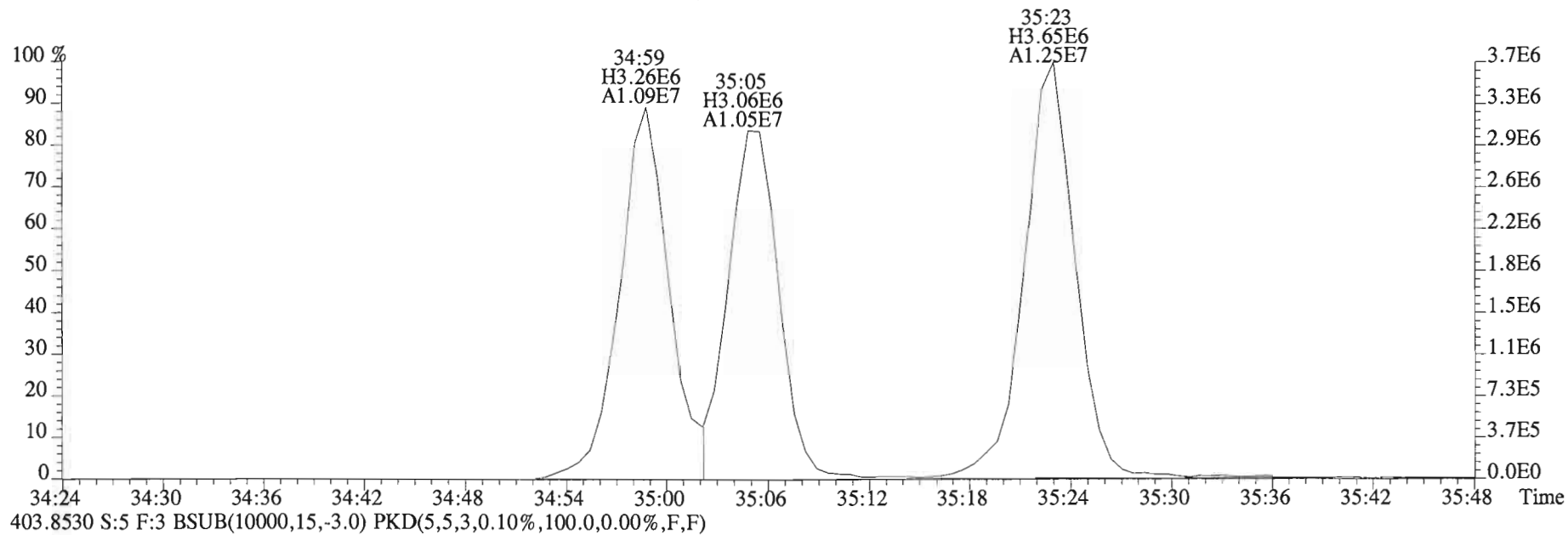
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



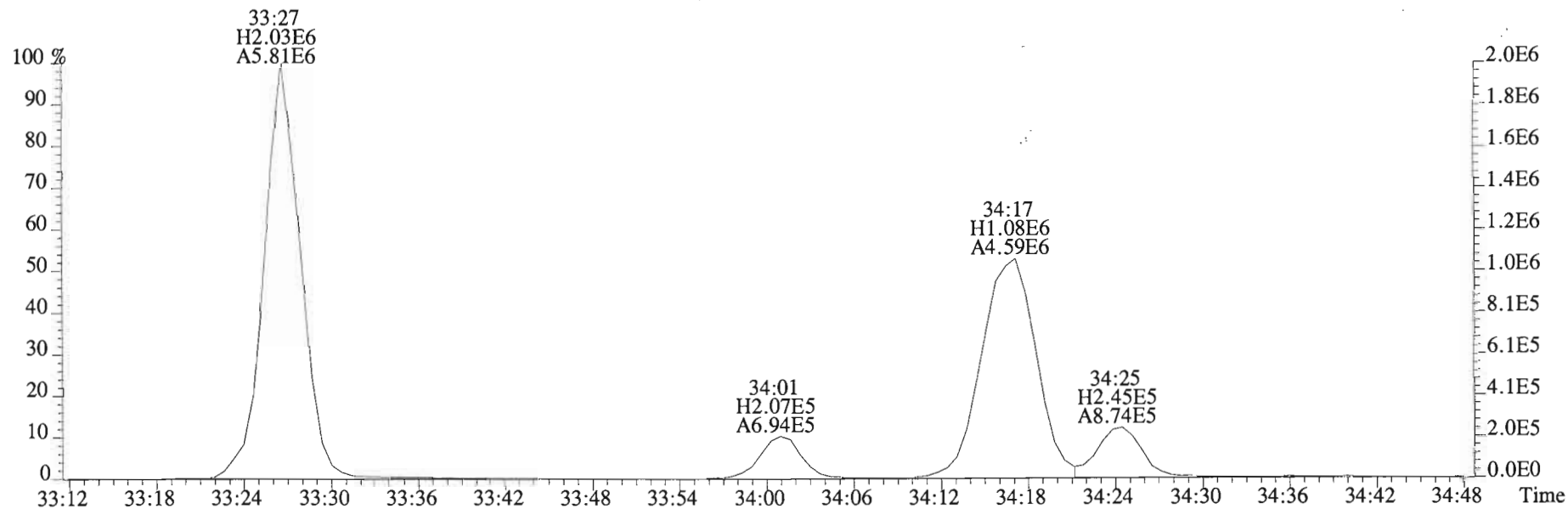
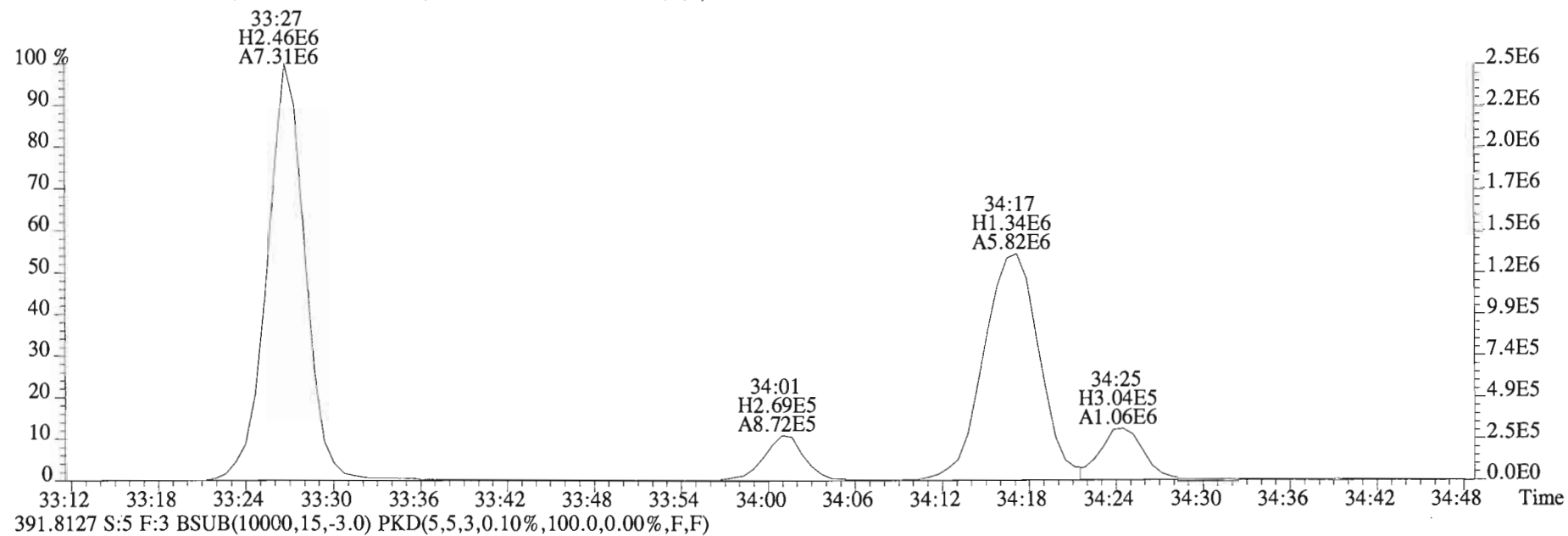
380.9760 S:5 F:3



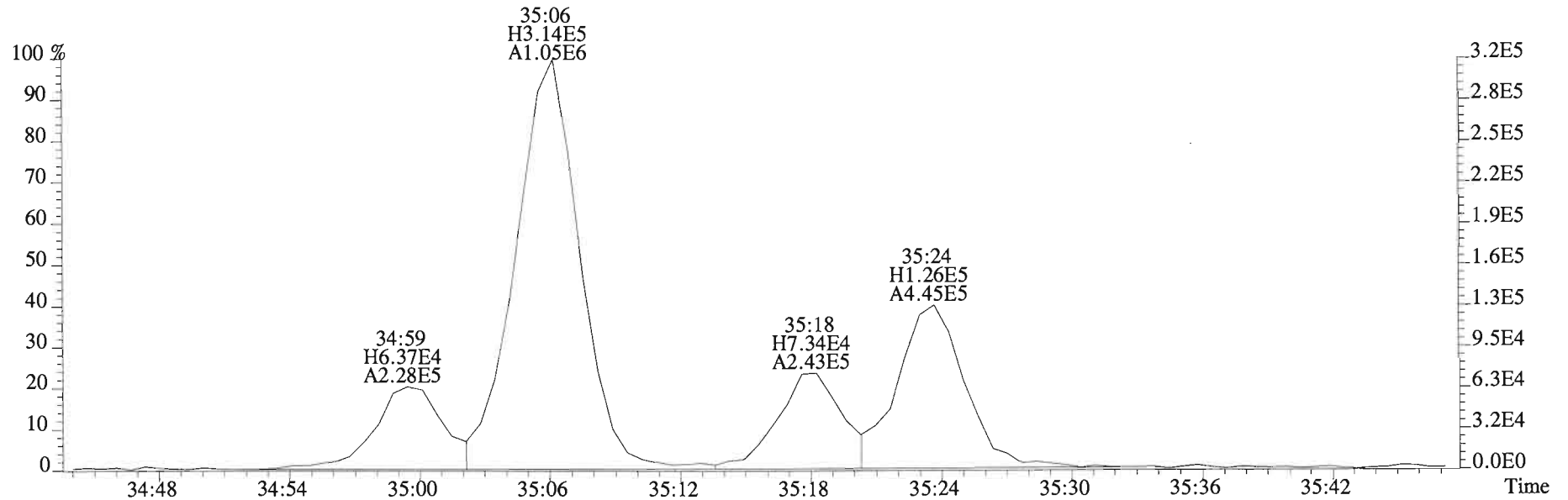
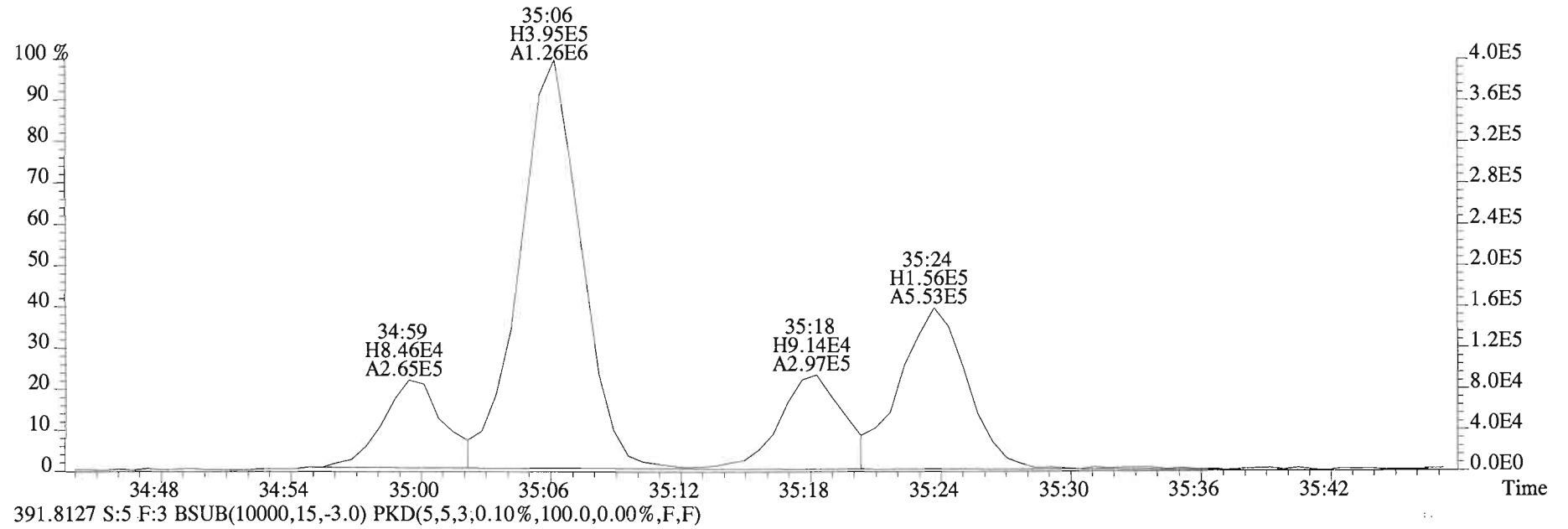
File:150220D2 #1-392 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



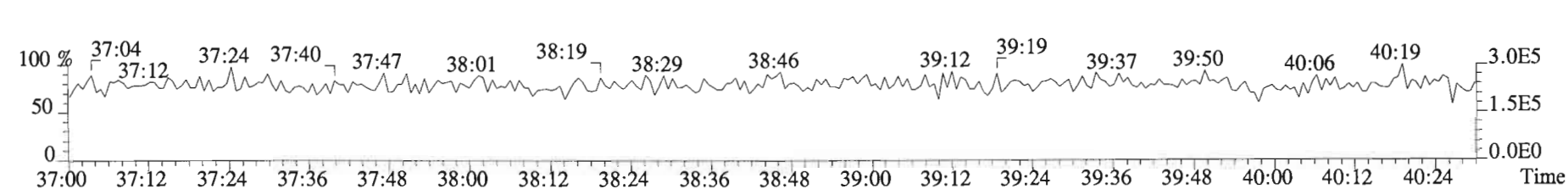
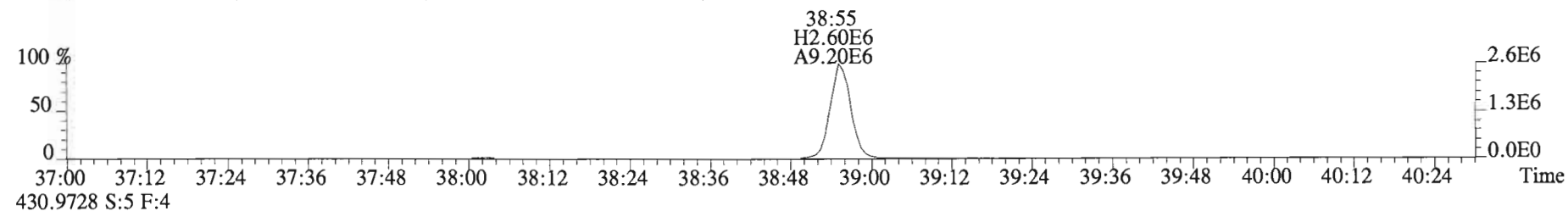
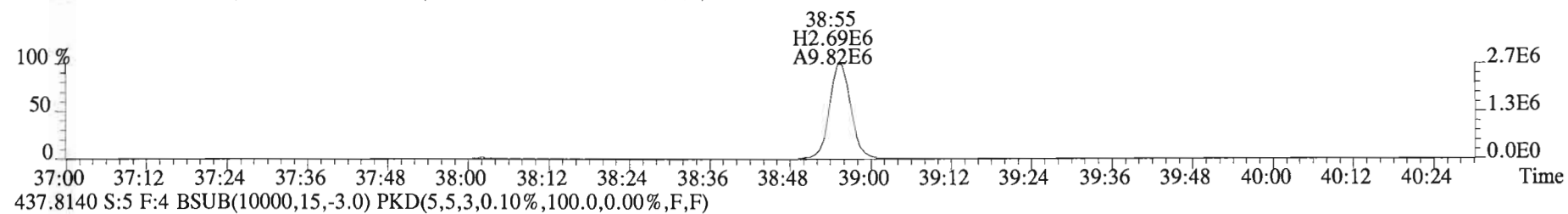
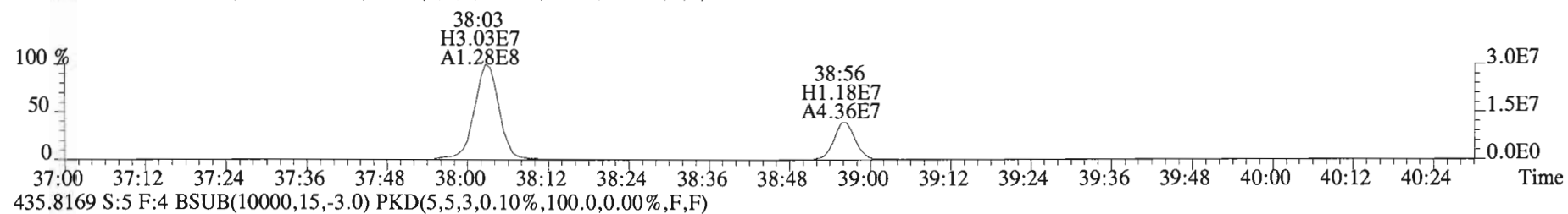
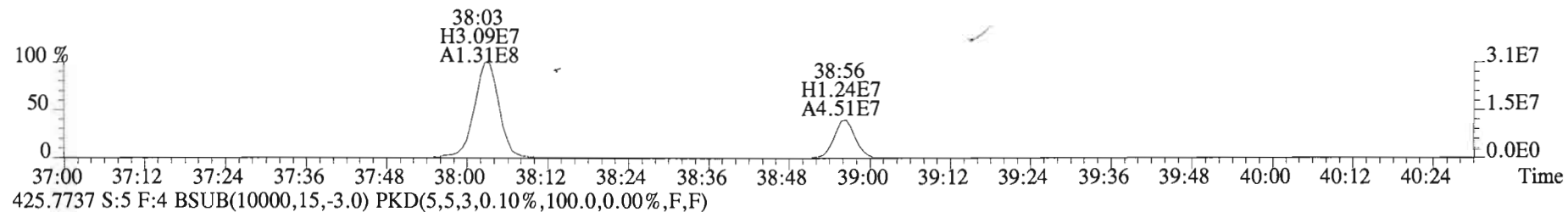
File:150220D2 #1-392 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



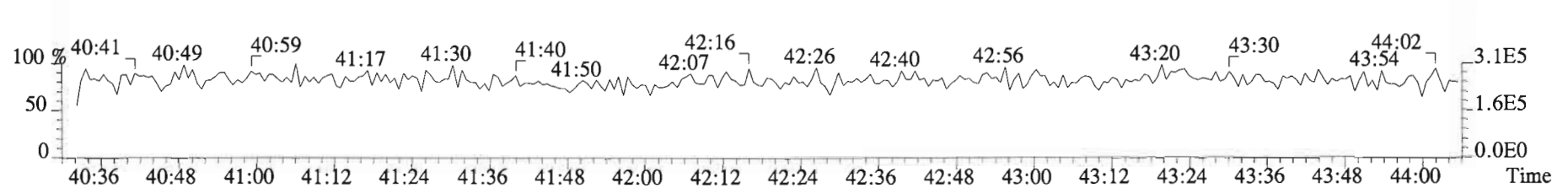
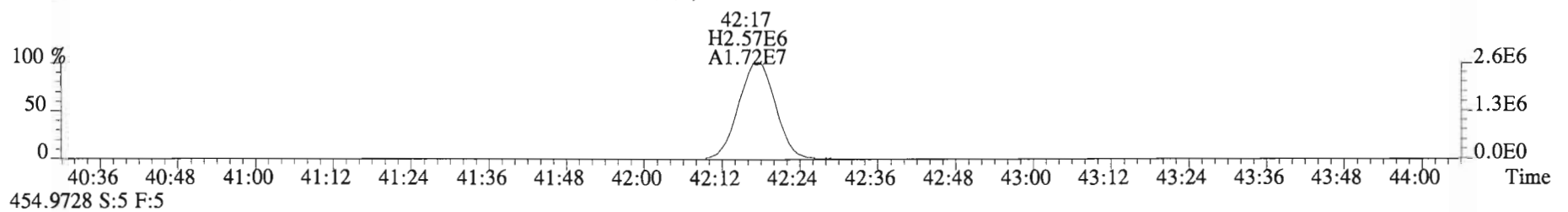
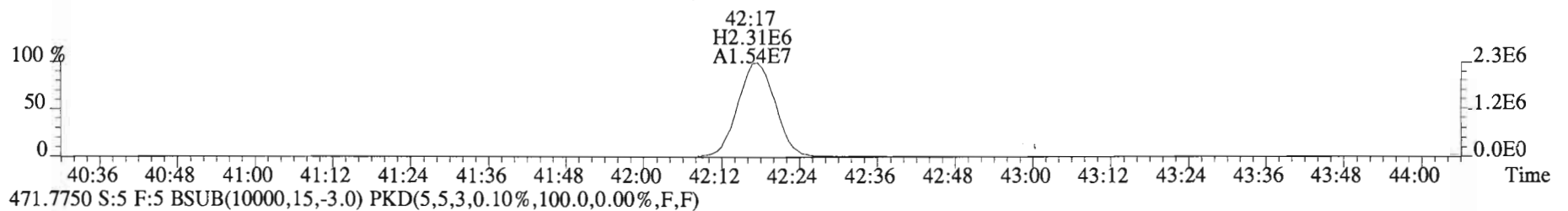
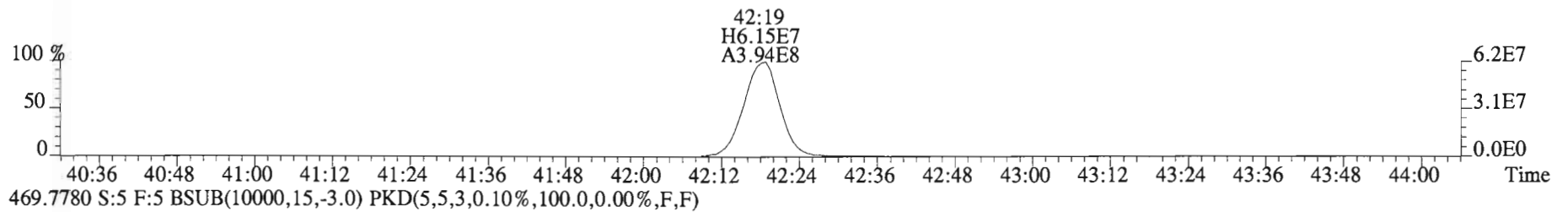
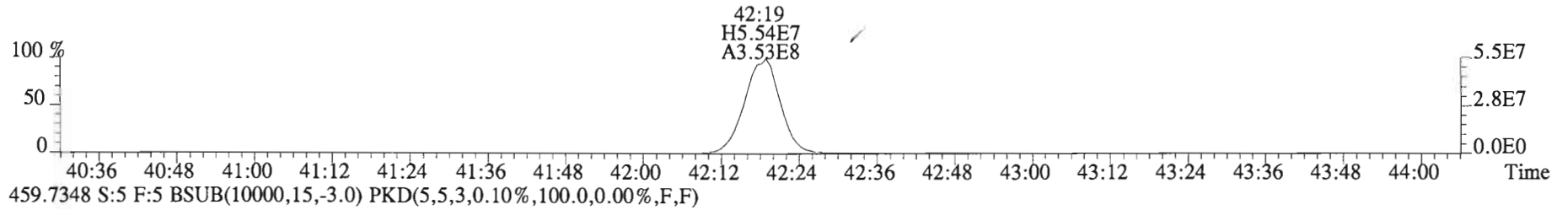
File:150220D2 #1-392 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



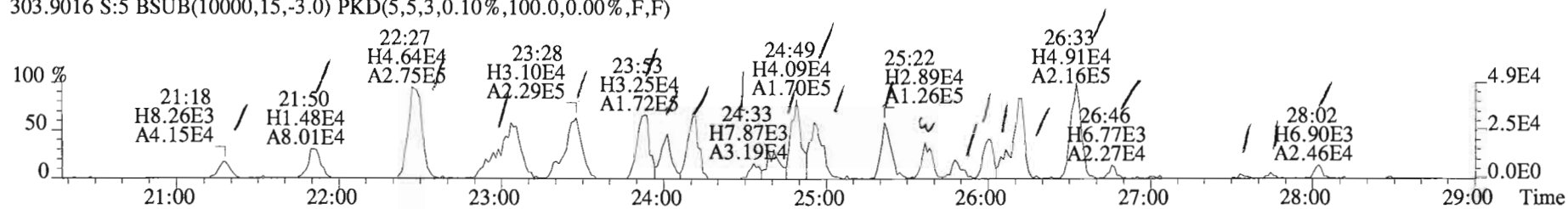
File:150220D2 #1-326 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



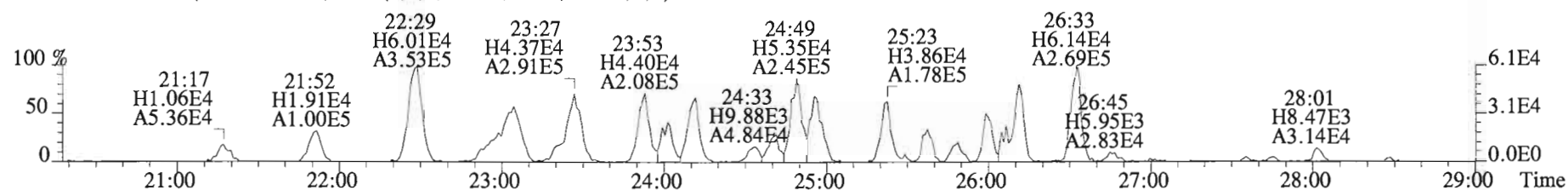
File:150220D2 #1-388 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



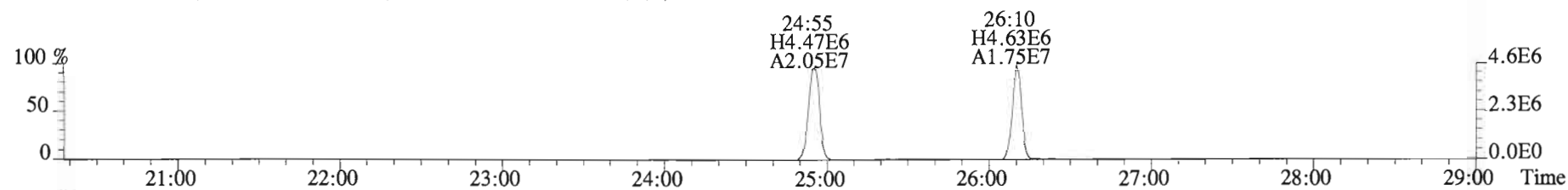
File:150220D2 #1-552 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
 303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



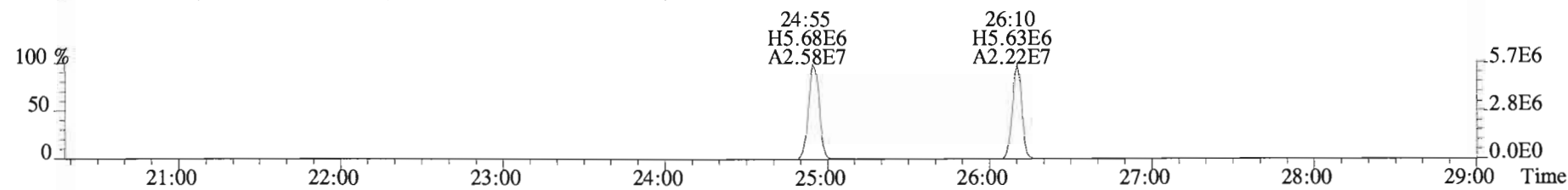
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



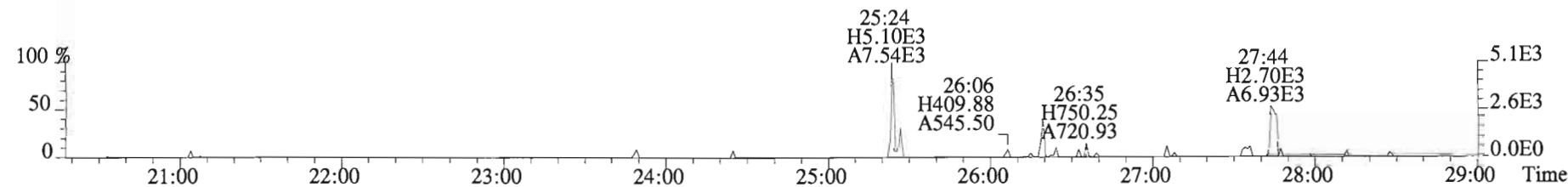
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



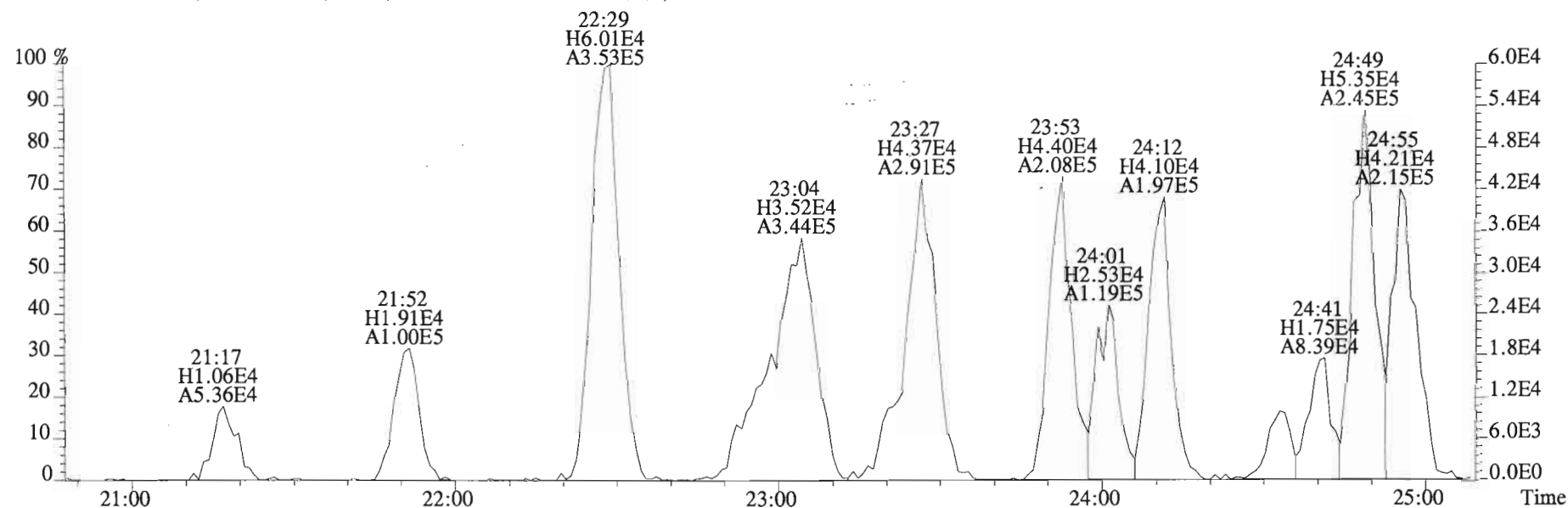
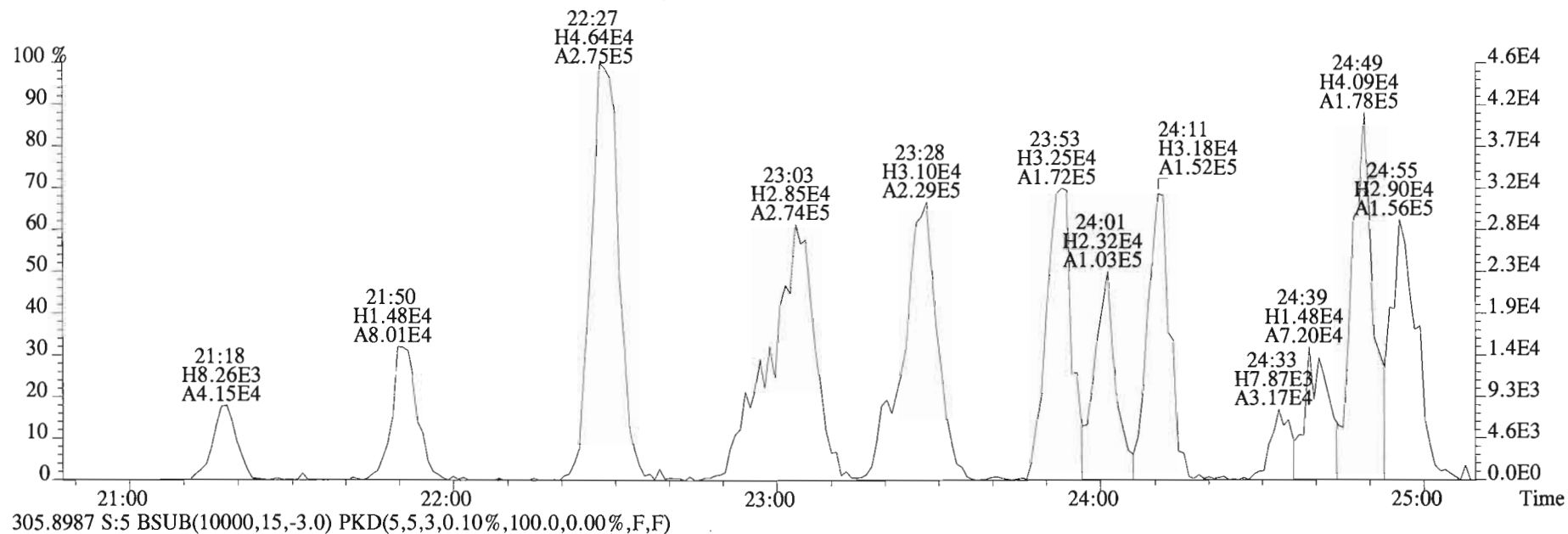
317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



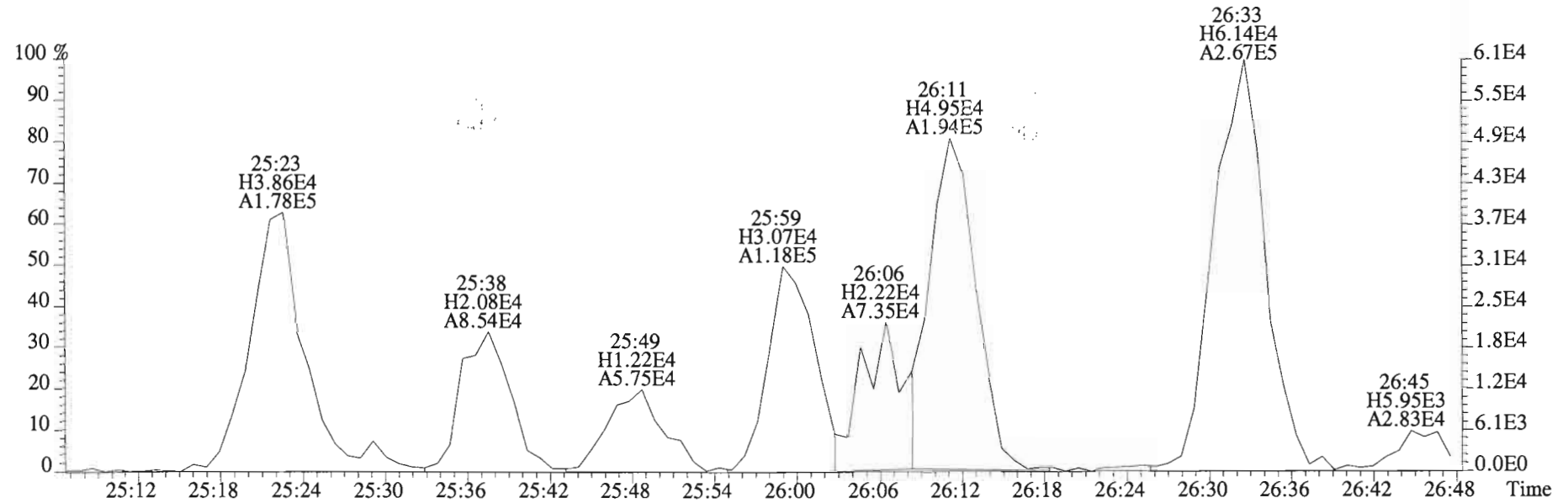
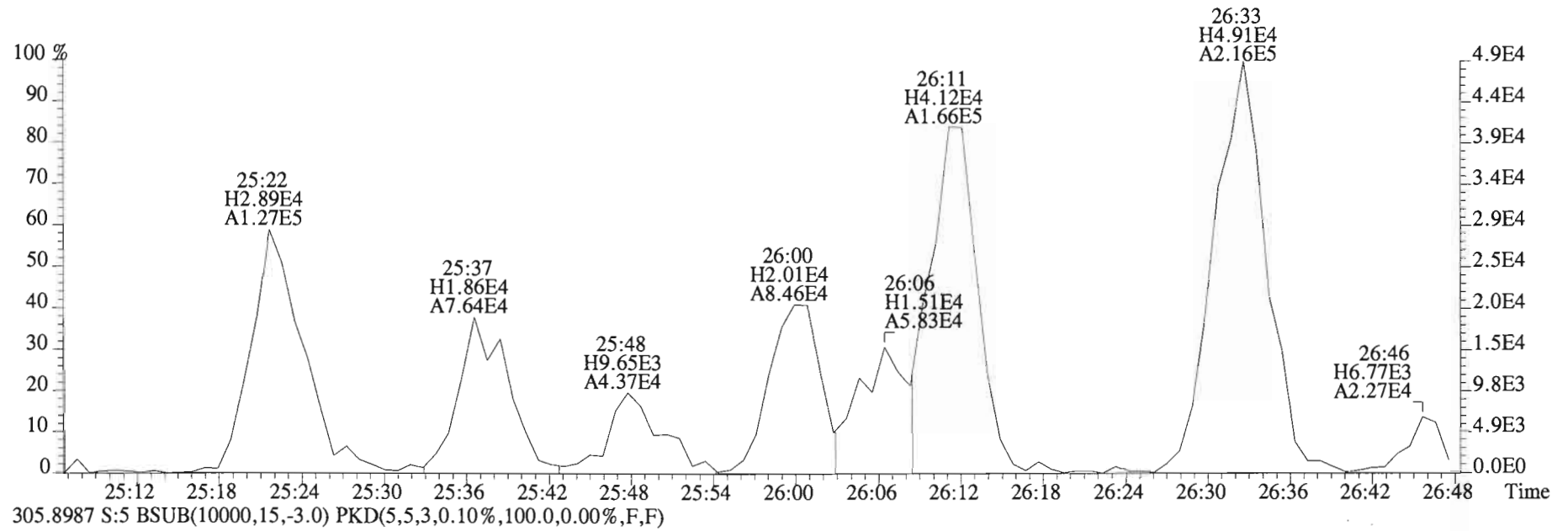
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



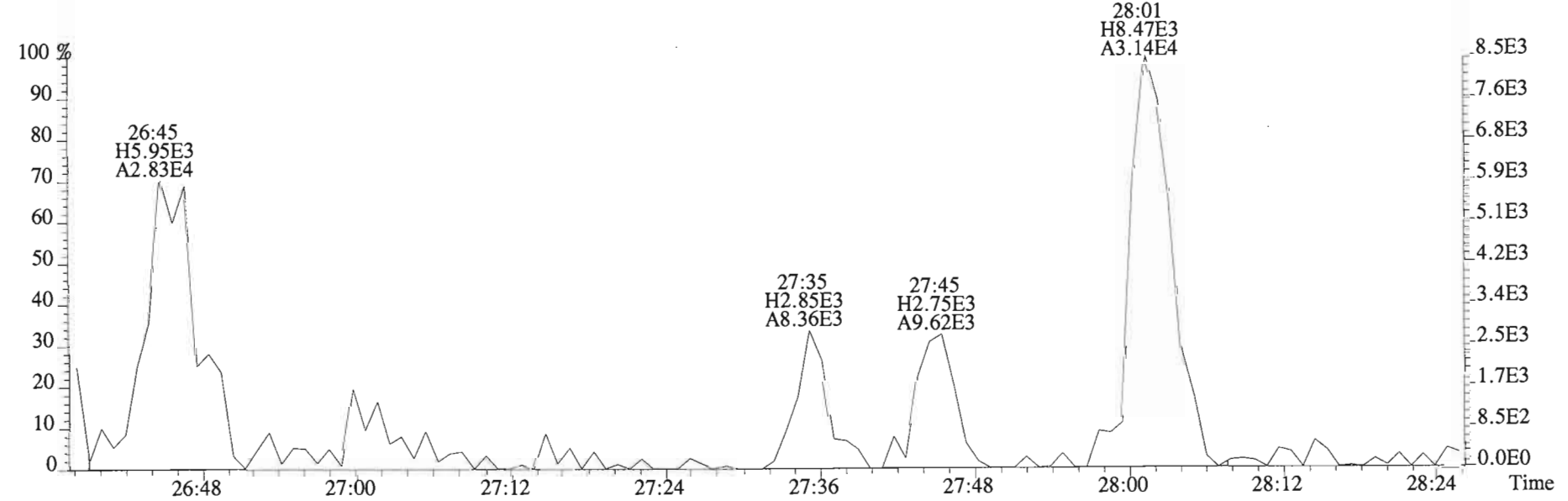
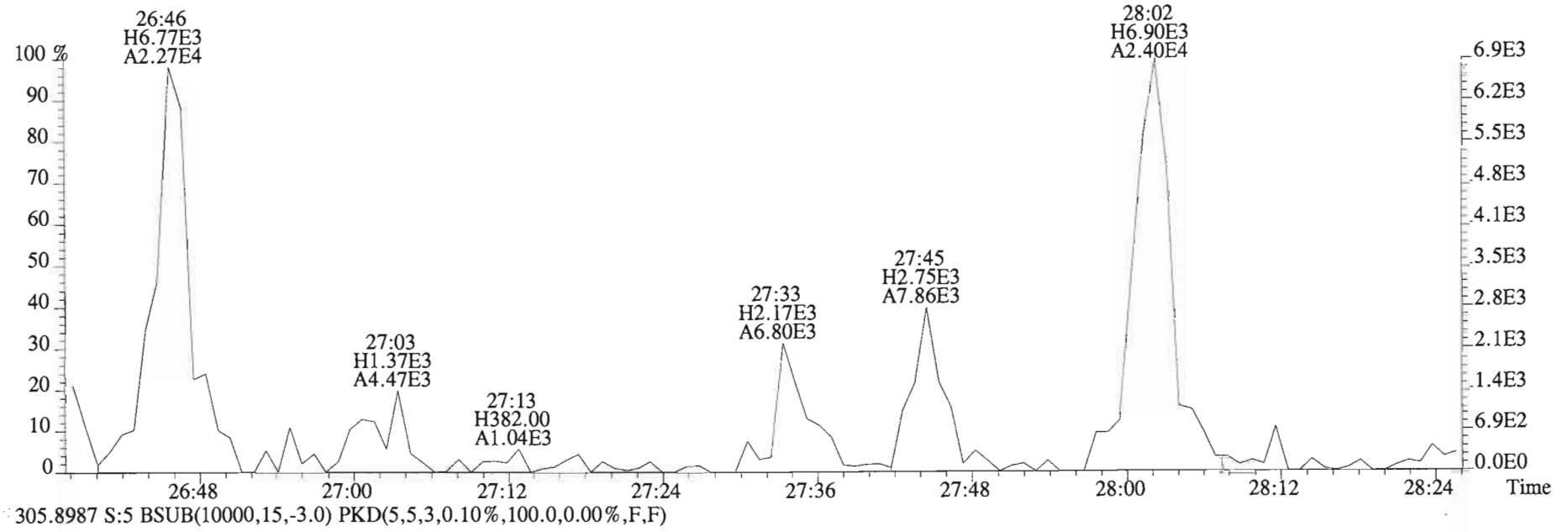
File:150220D2 #1-552 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
 303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



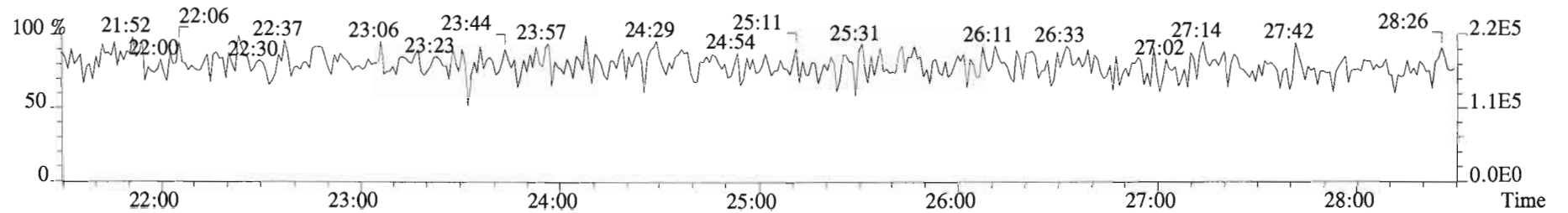
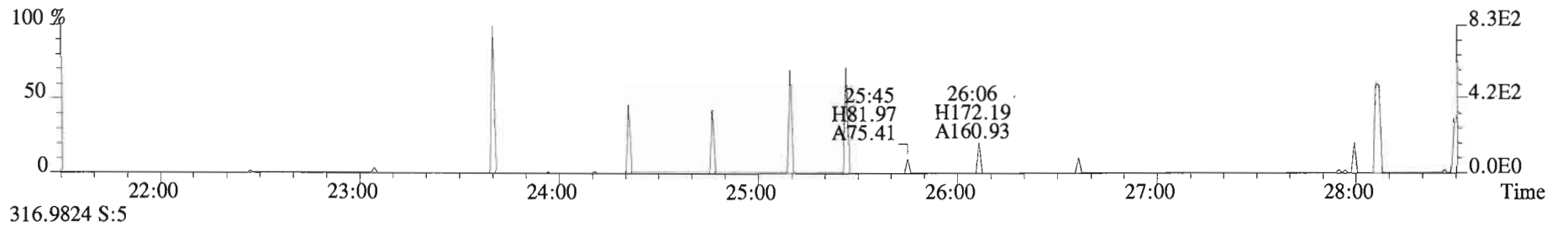
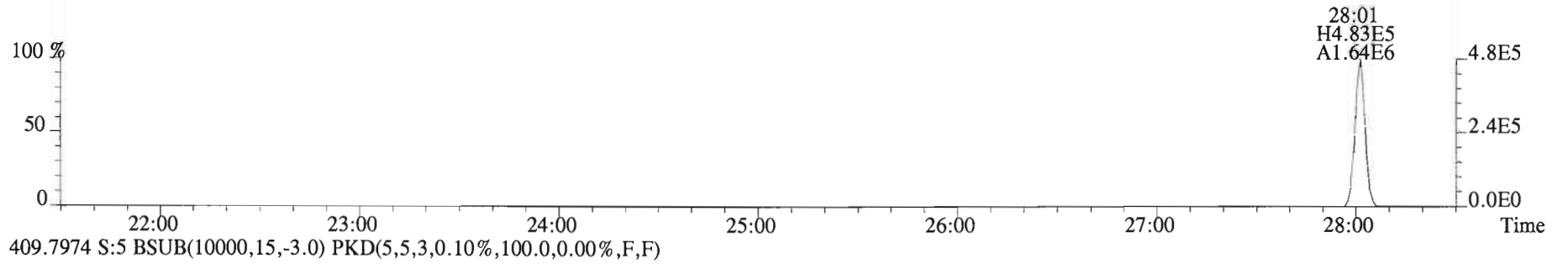
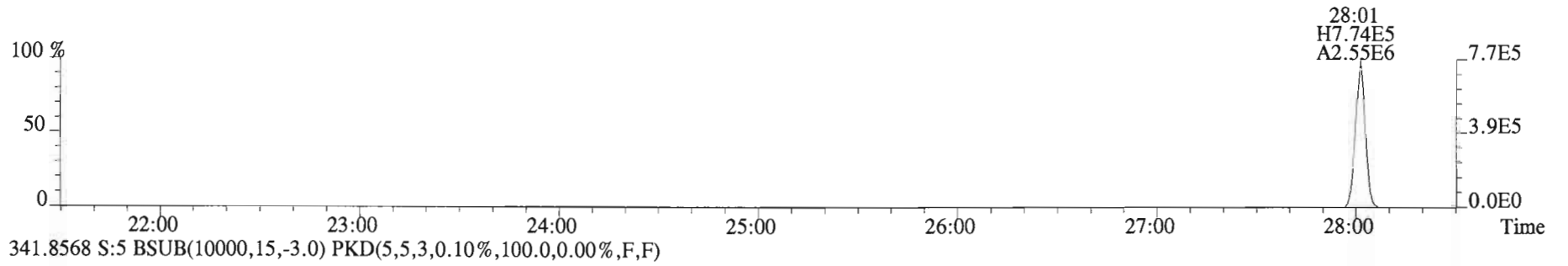
File:150220D2 #1-552 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
 303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



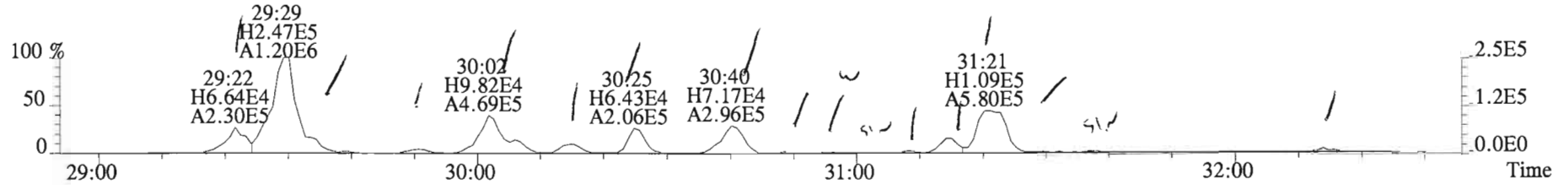
File:150220D2 #1-552 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



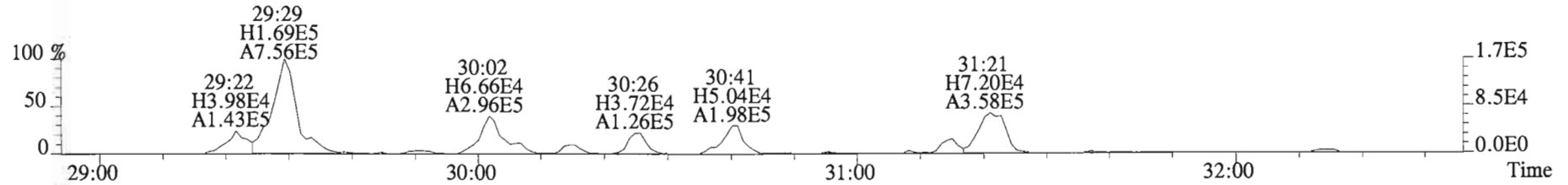
File:150220D2 #1-552 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



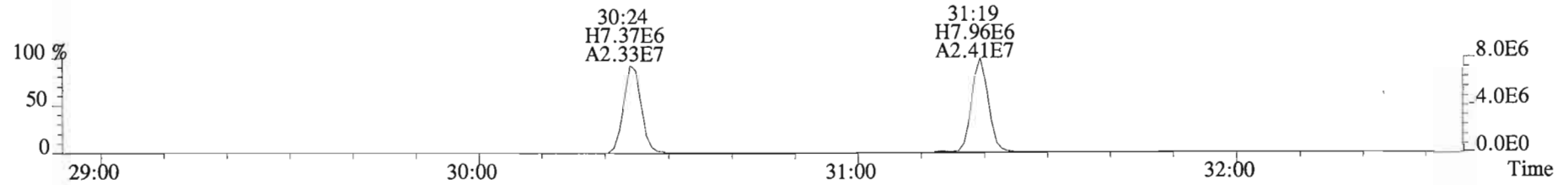
File:150220D2 #1-251 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



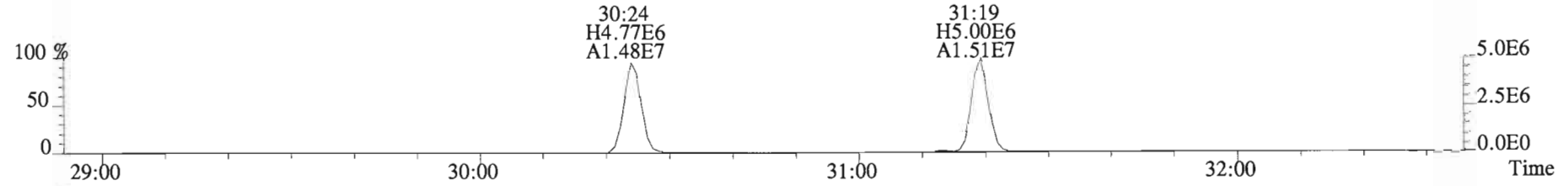
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



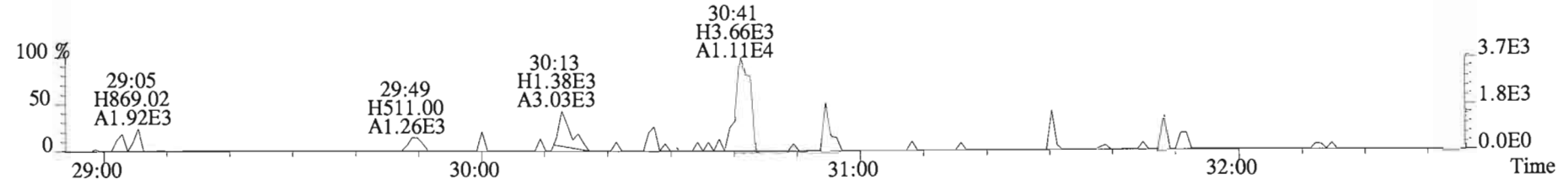
351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



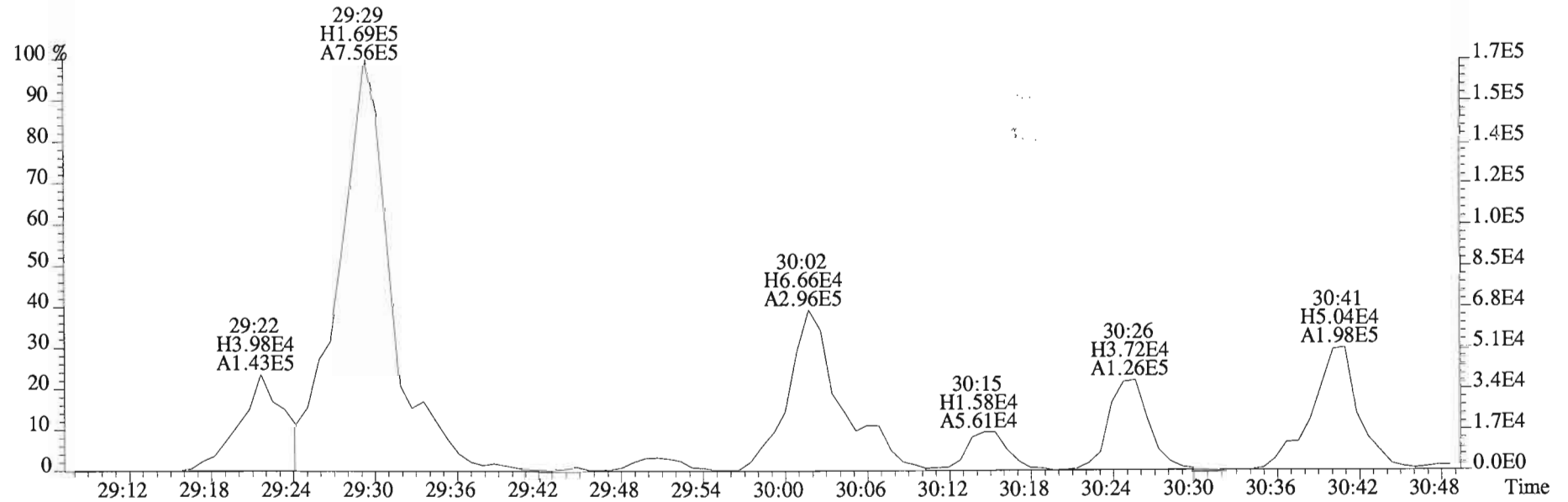
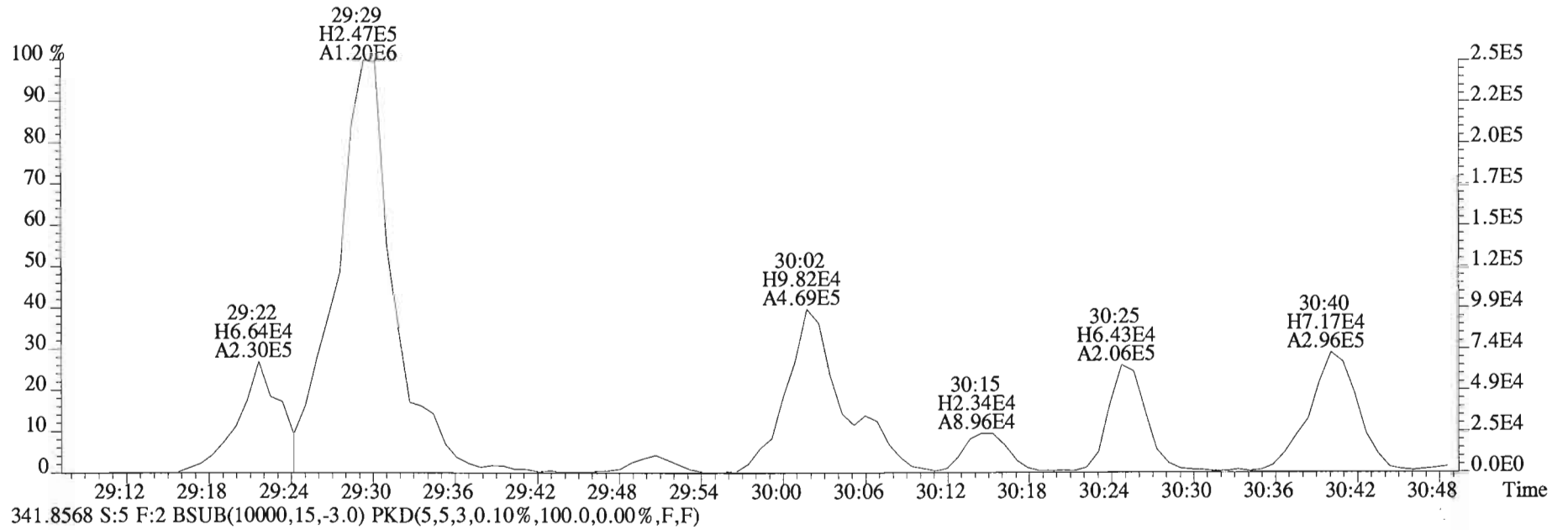
353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



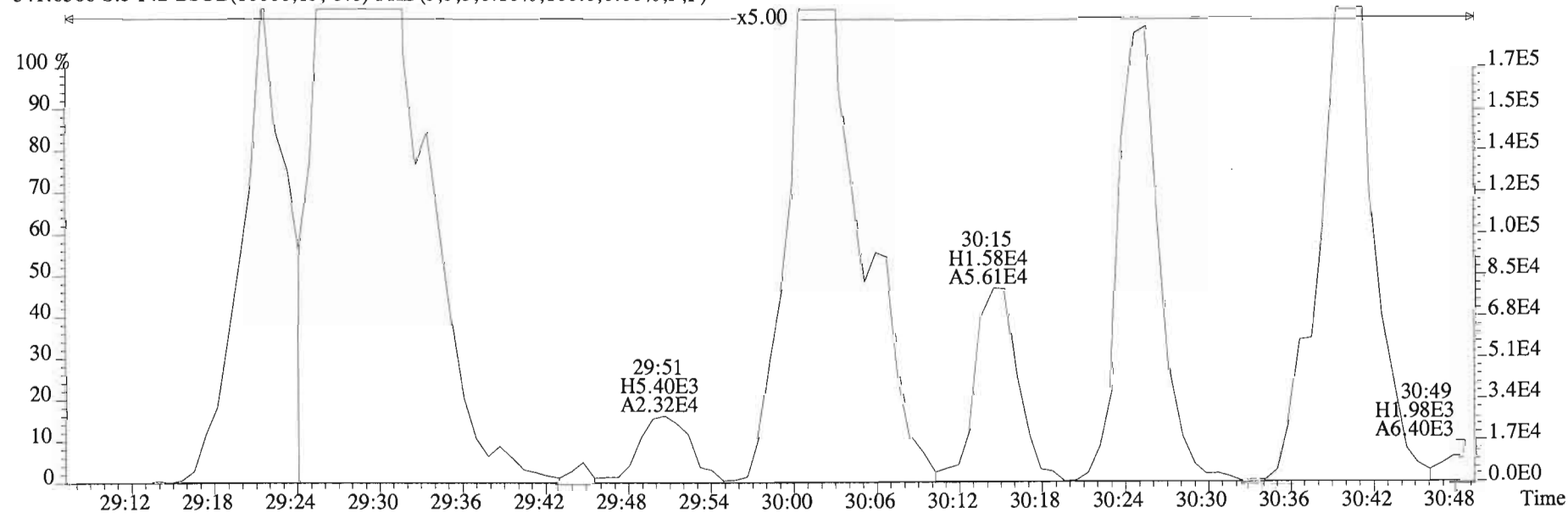
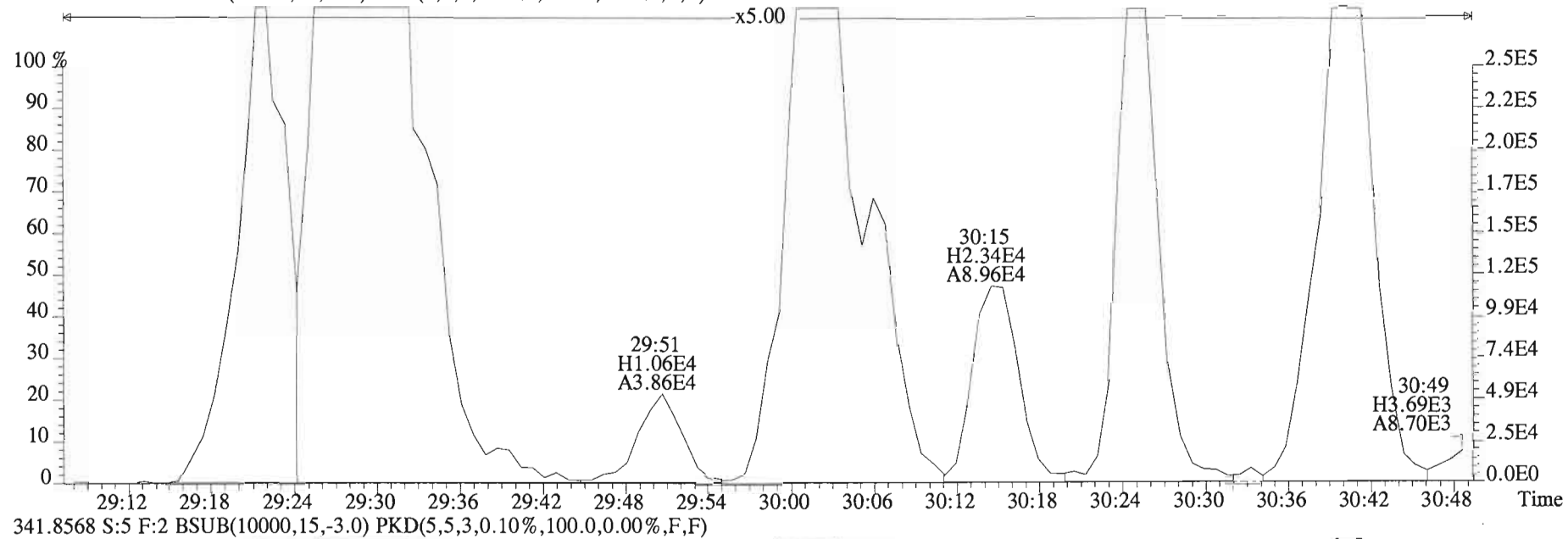
409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



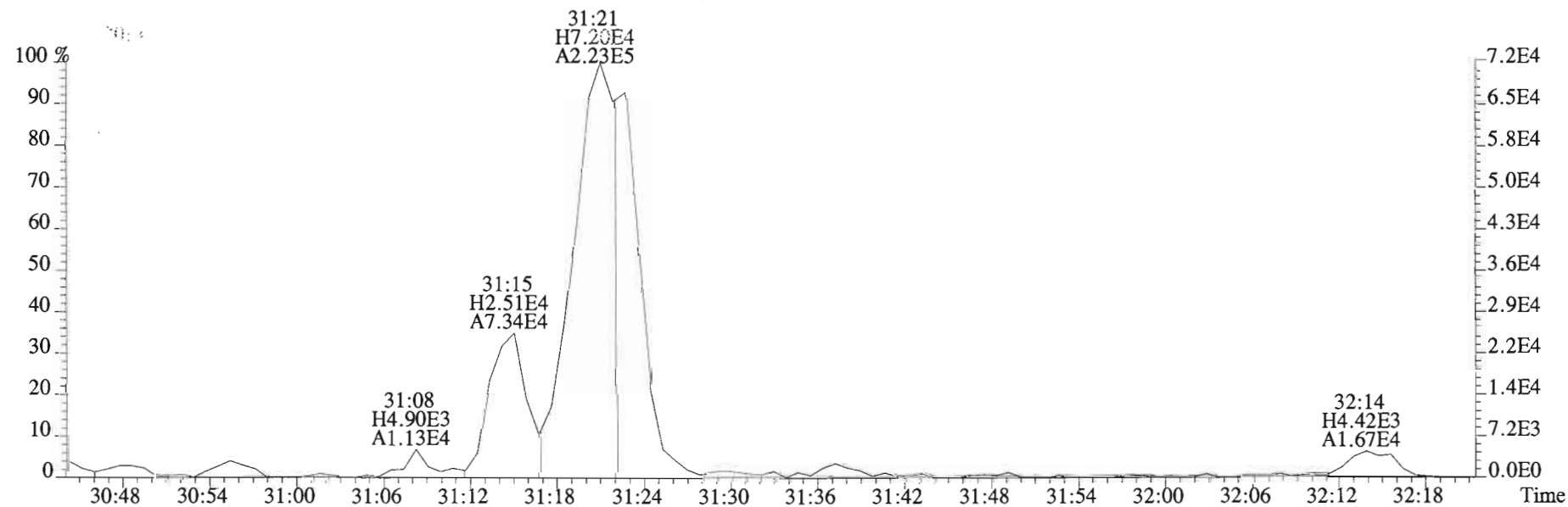
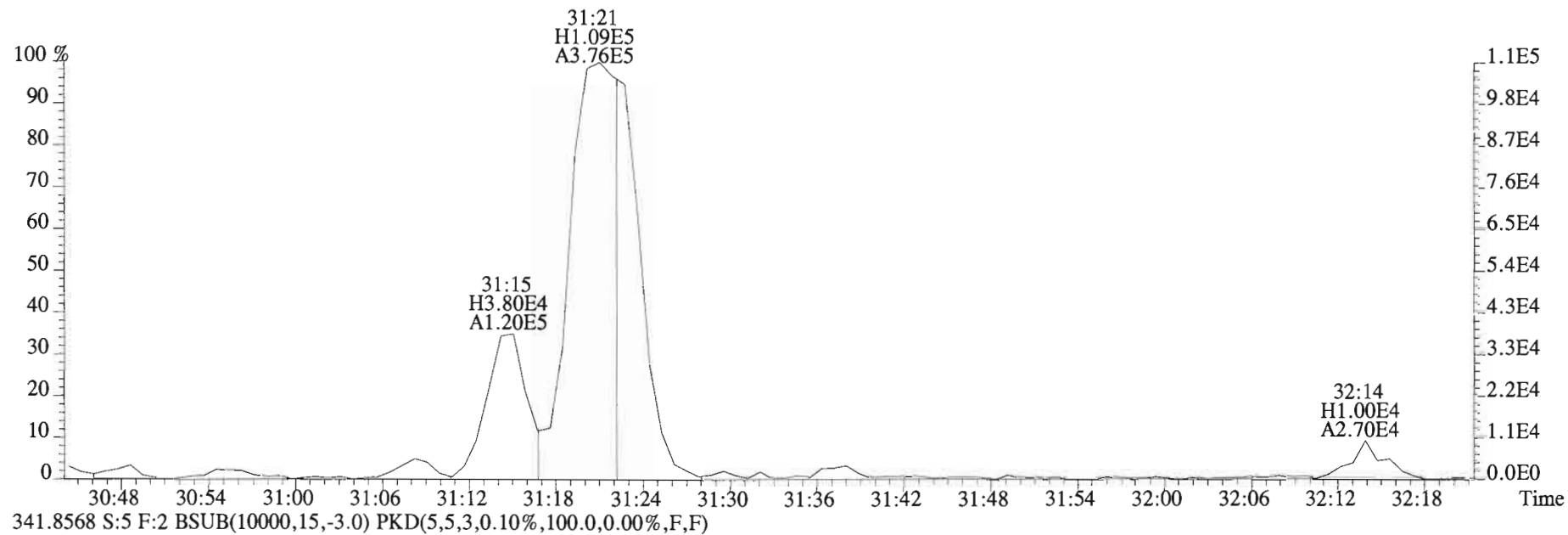
File:150220D2 #1-251 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



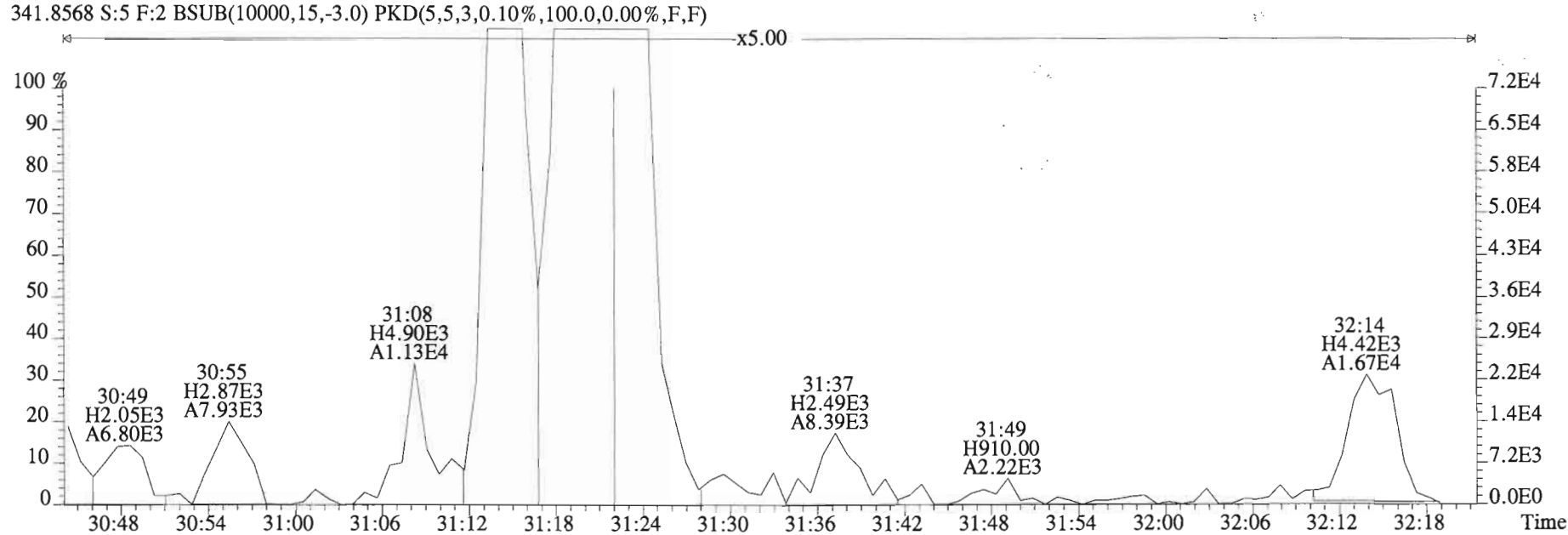
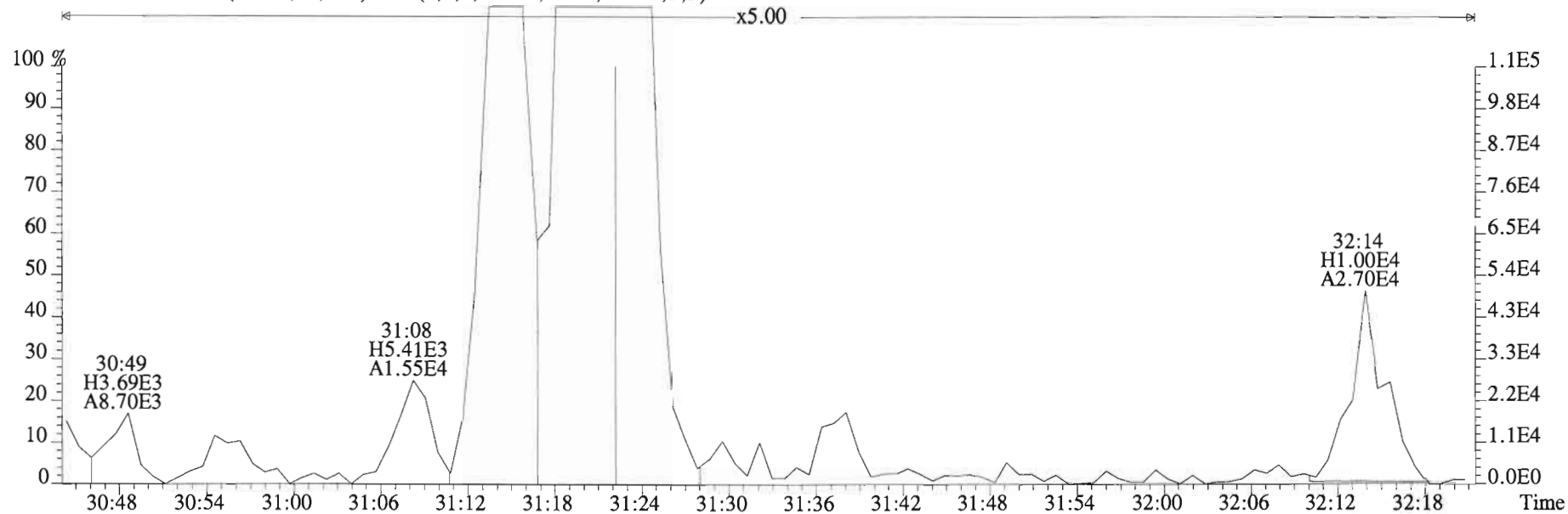
File:150220D2 #1-251 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



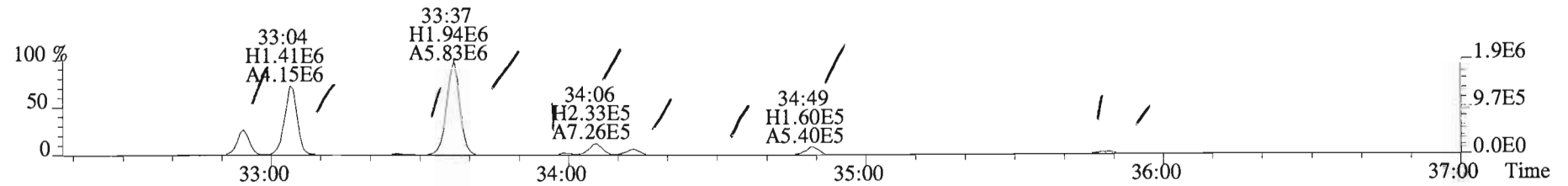
File:150220D2 #1-251 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



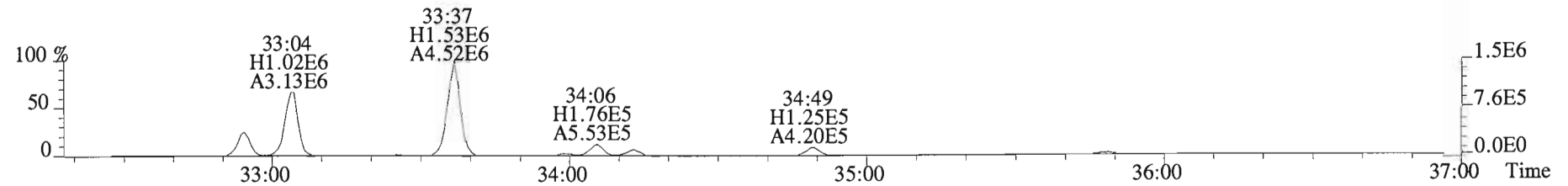
File:150220D2 #1-251 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
 339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



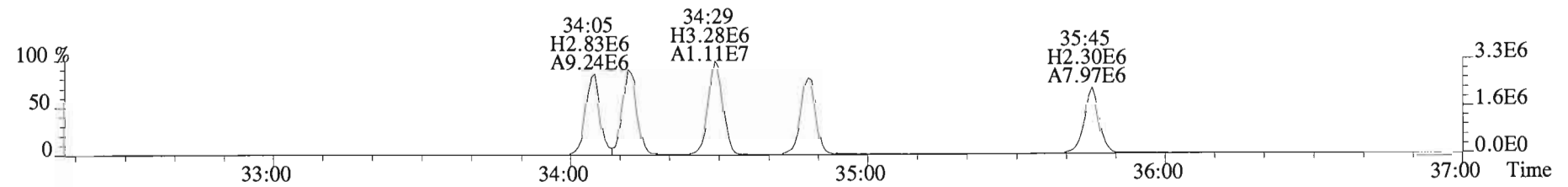
File:150220D2 #1-392 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



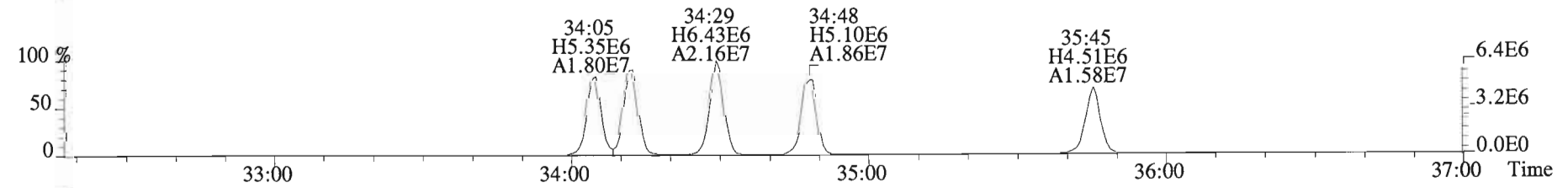
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



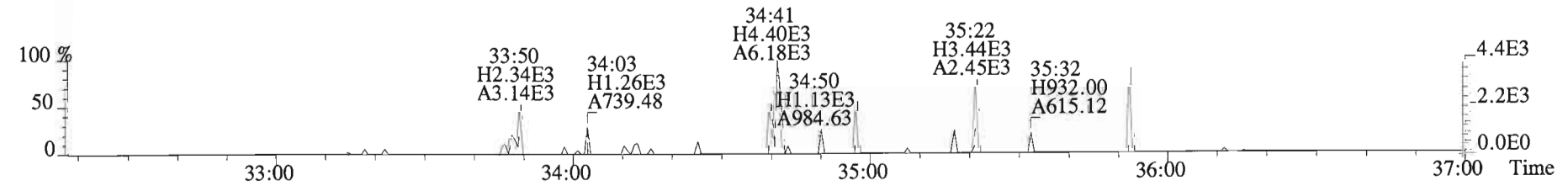
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



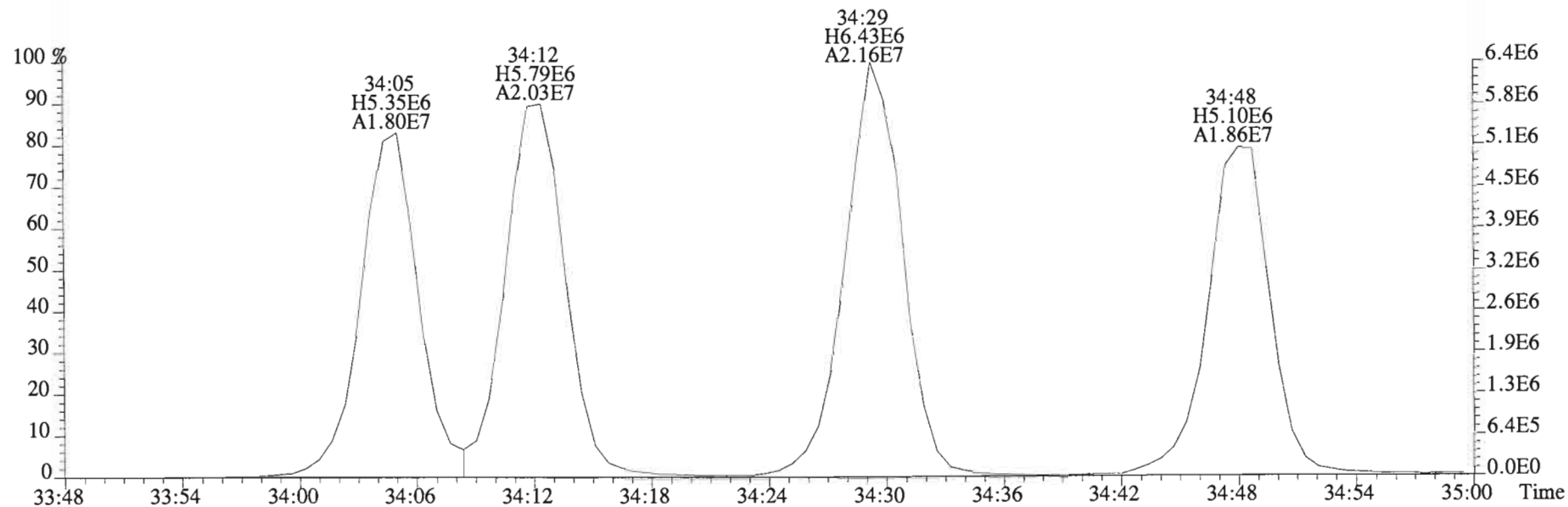
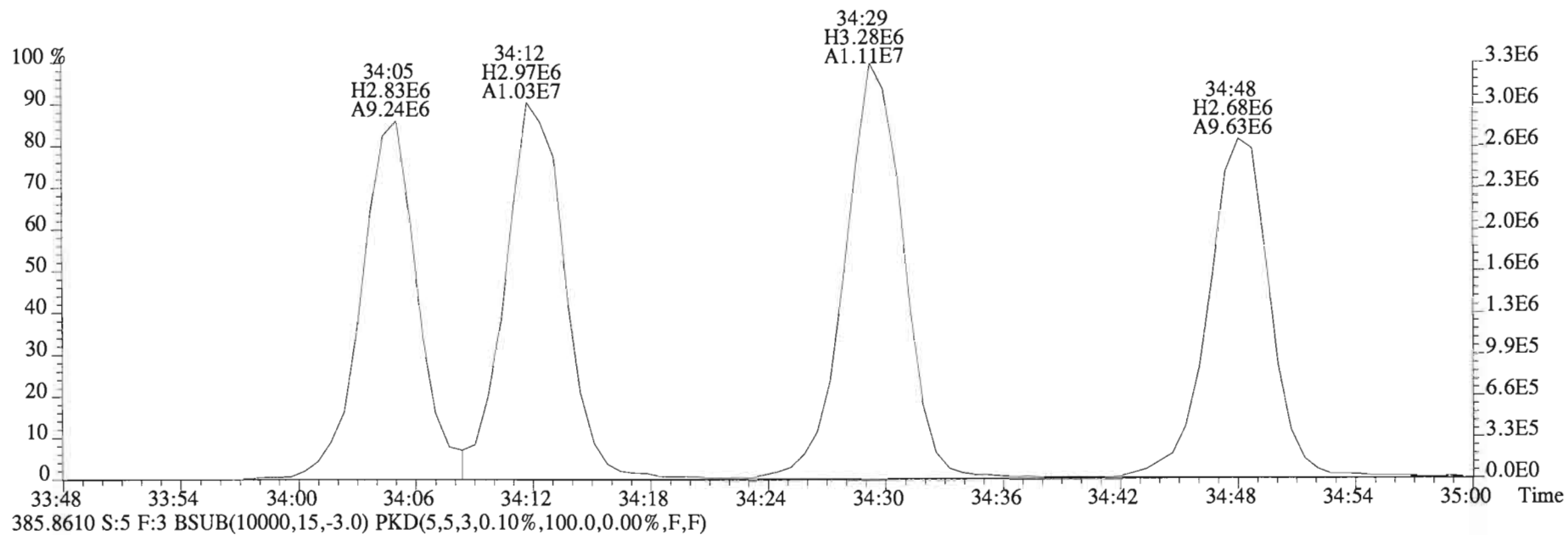
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



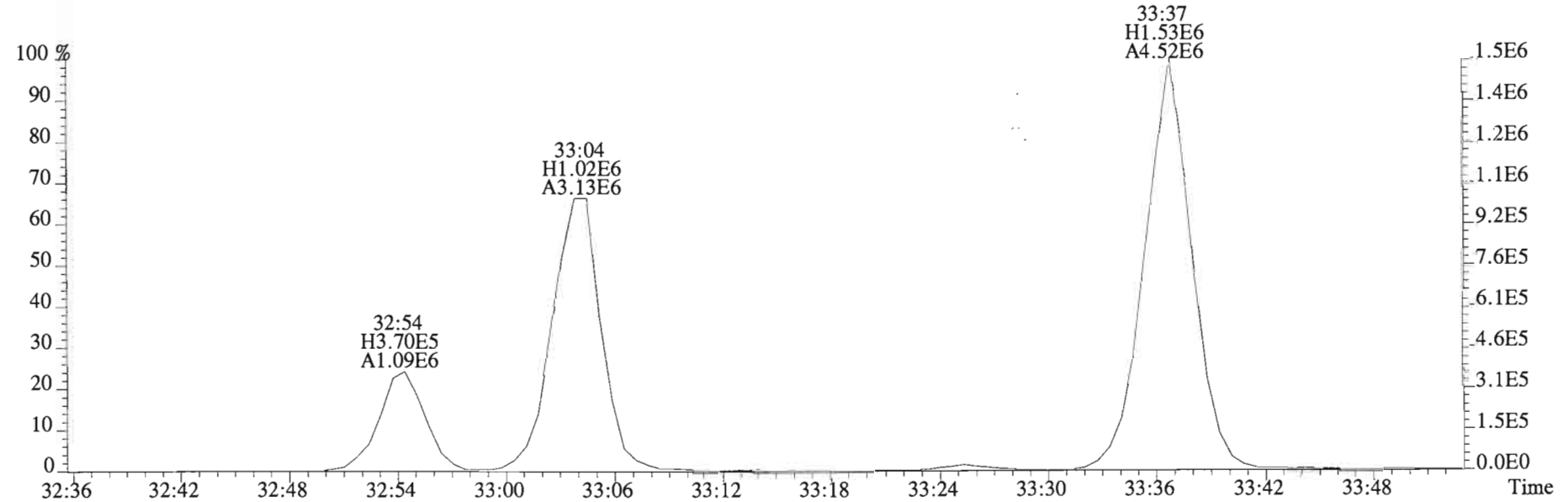
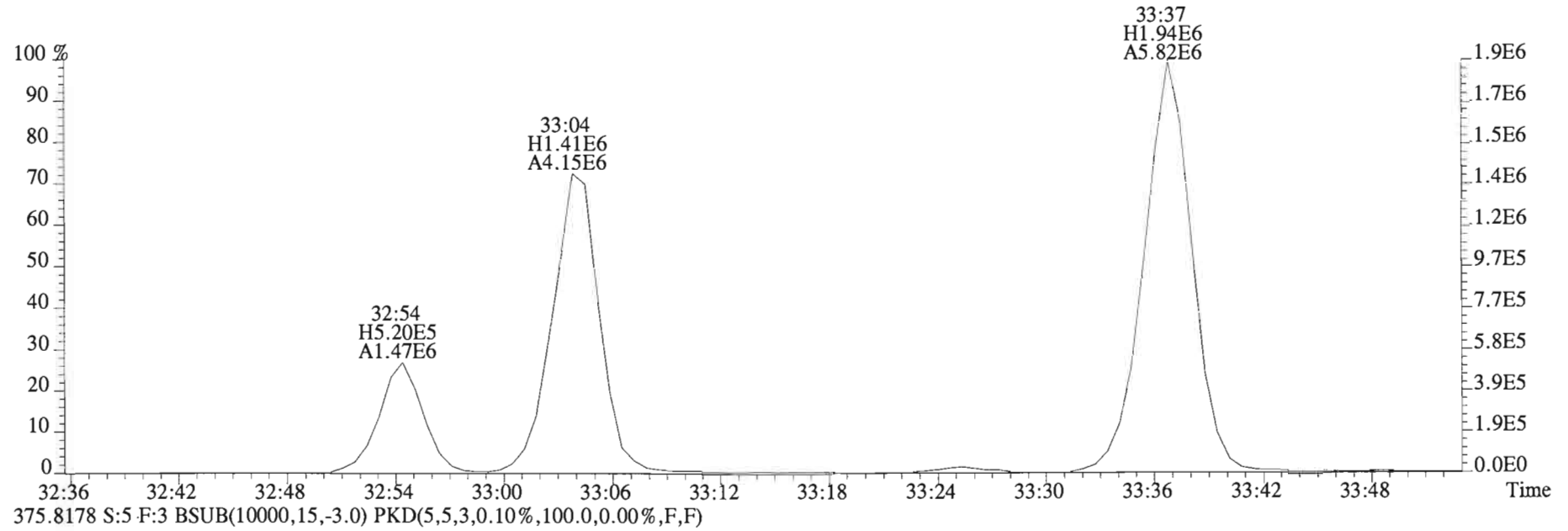
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



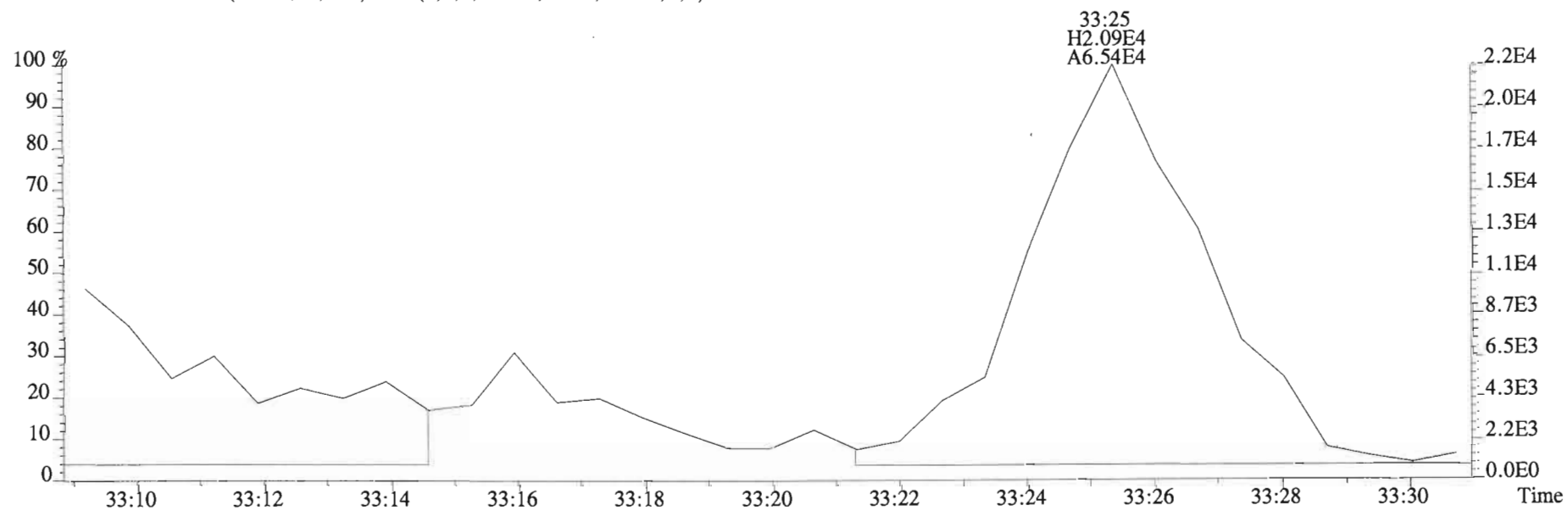
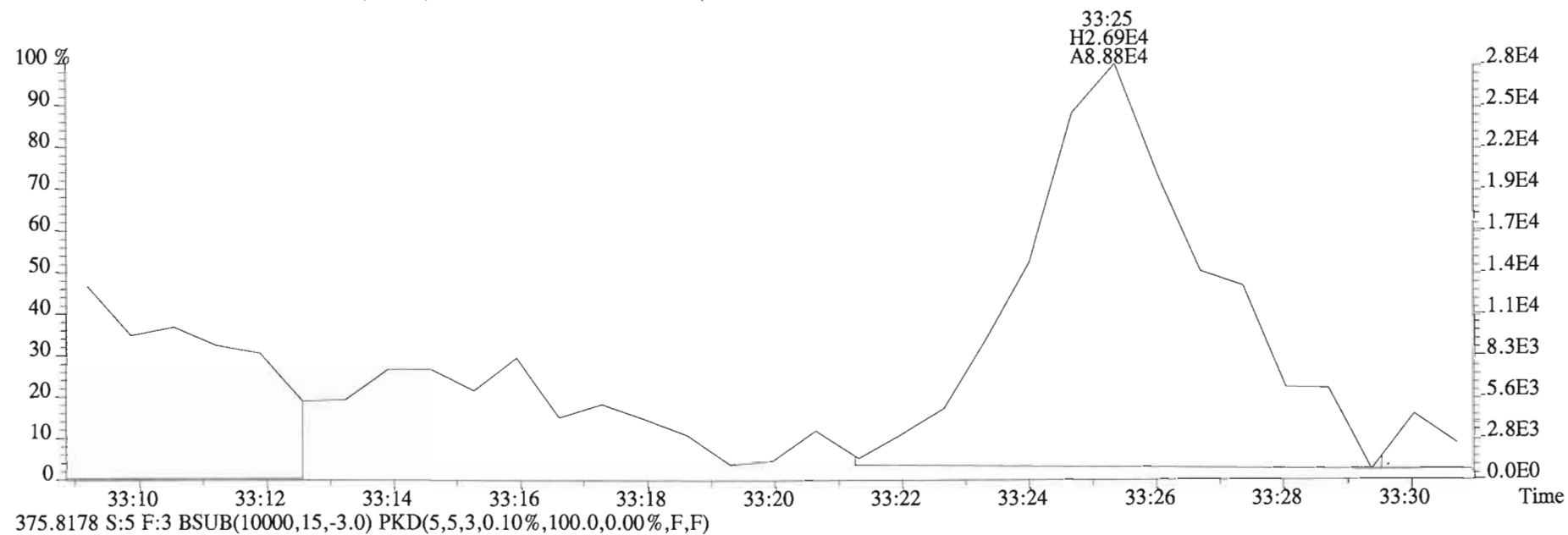
File:150220D2 #1-392 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



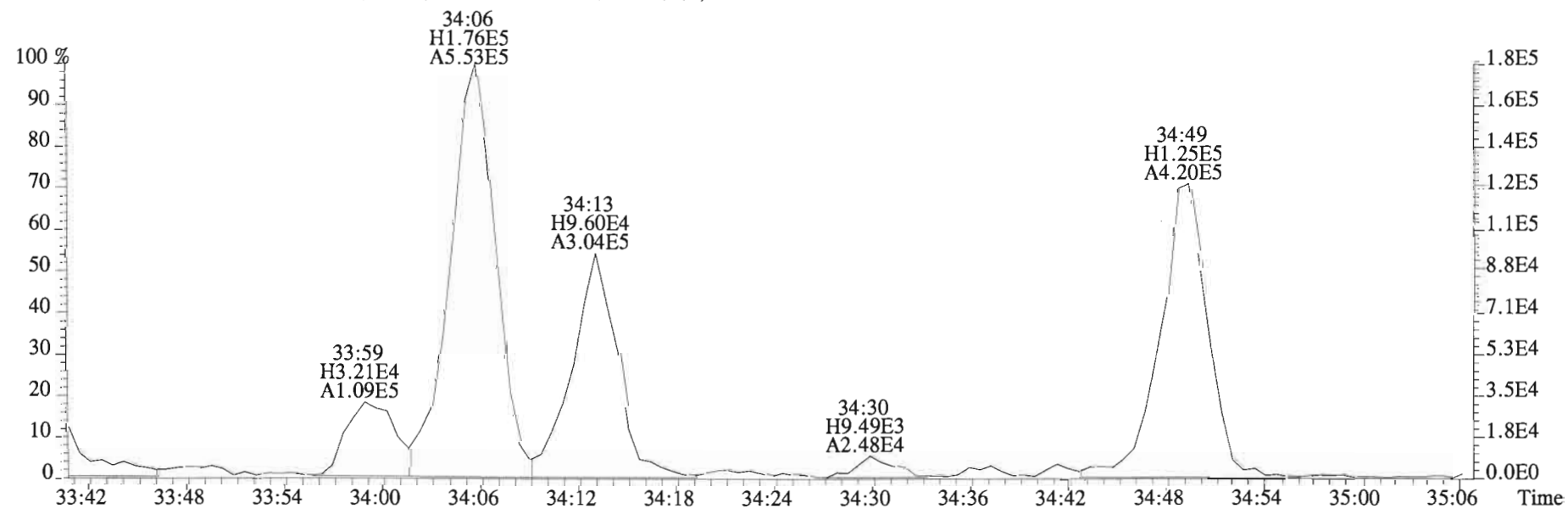
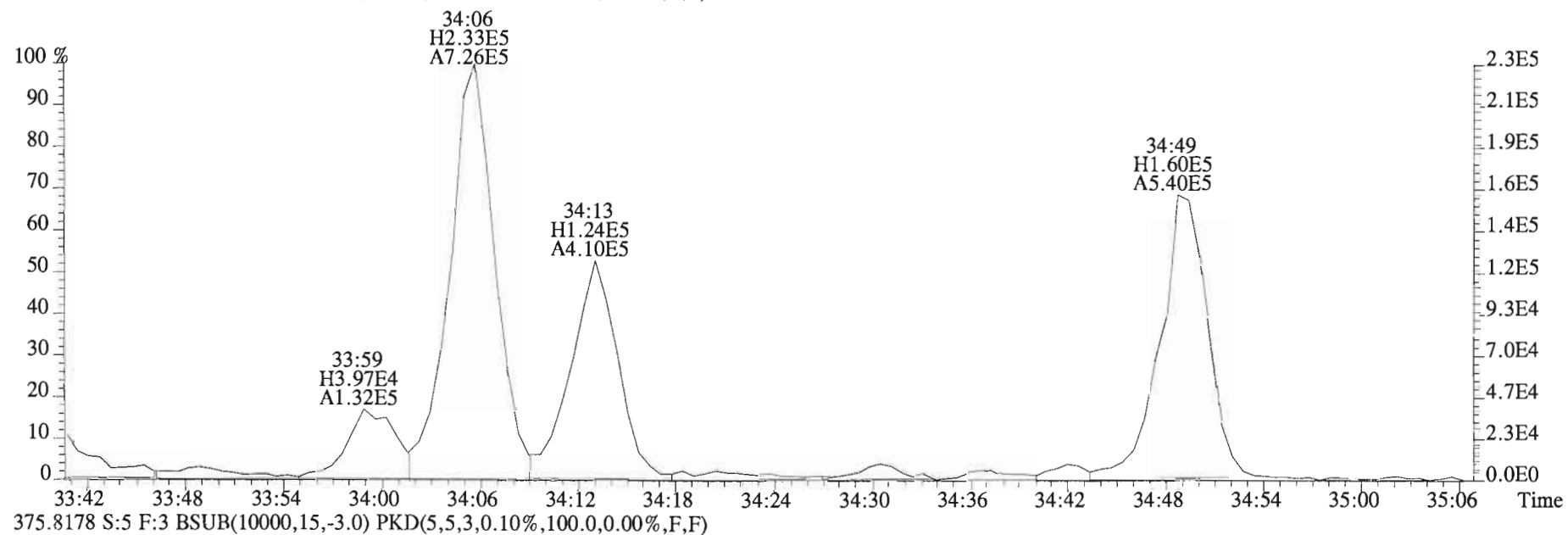
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Sample#5 File Text: Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



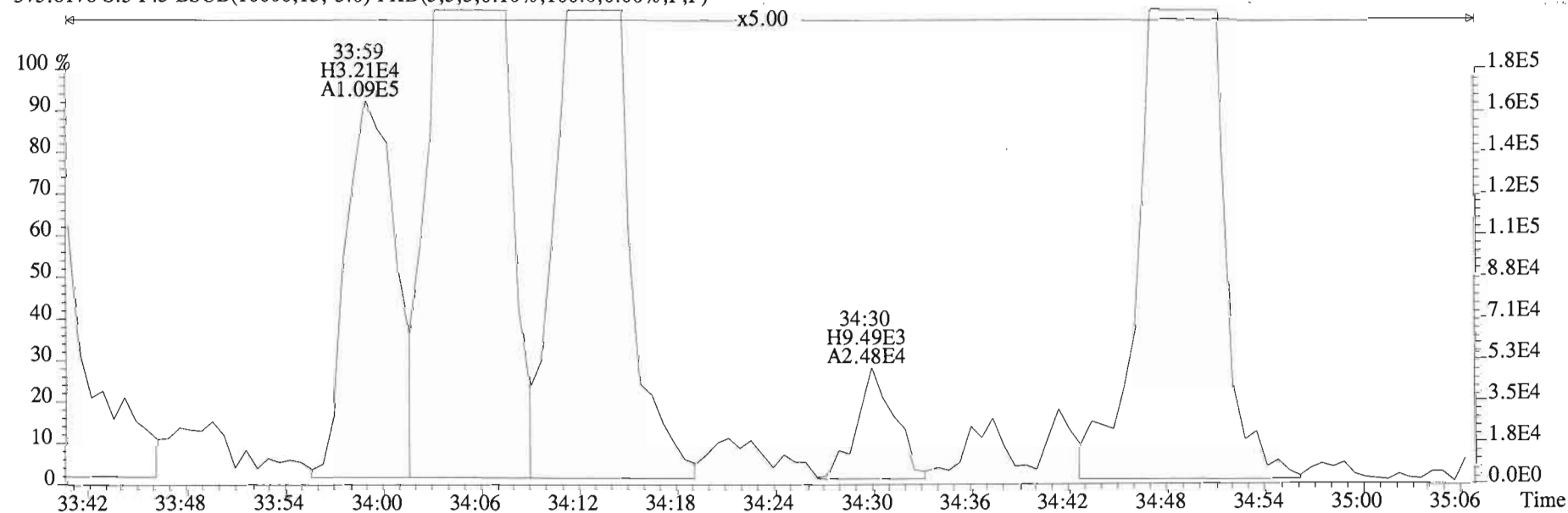
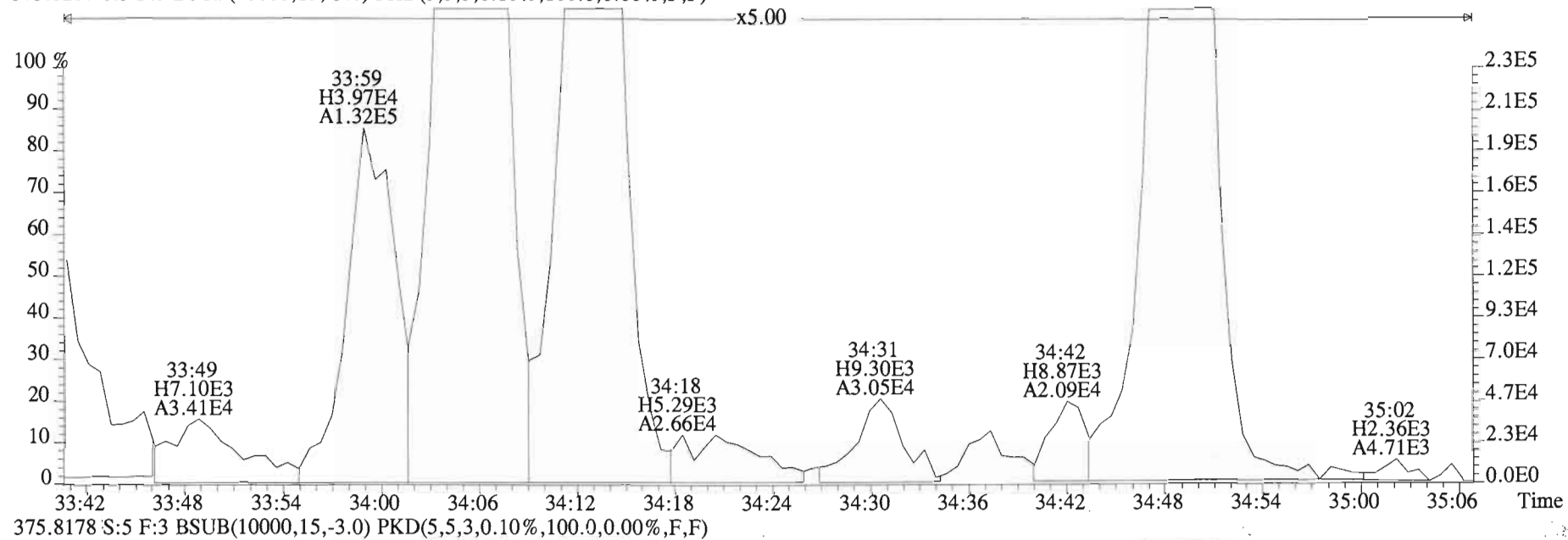
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Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



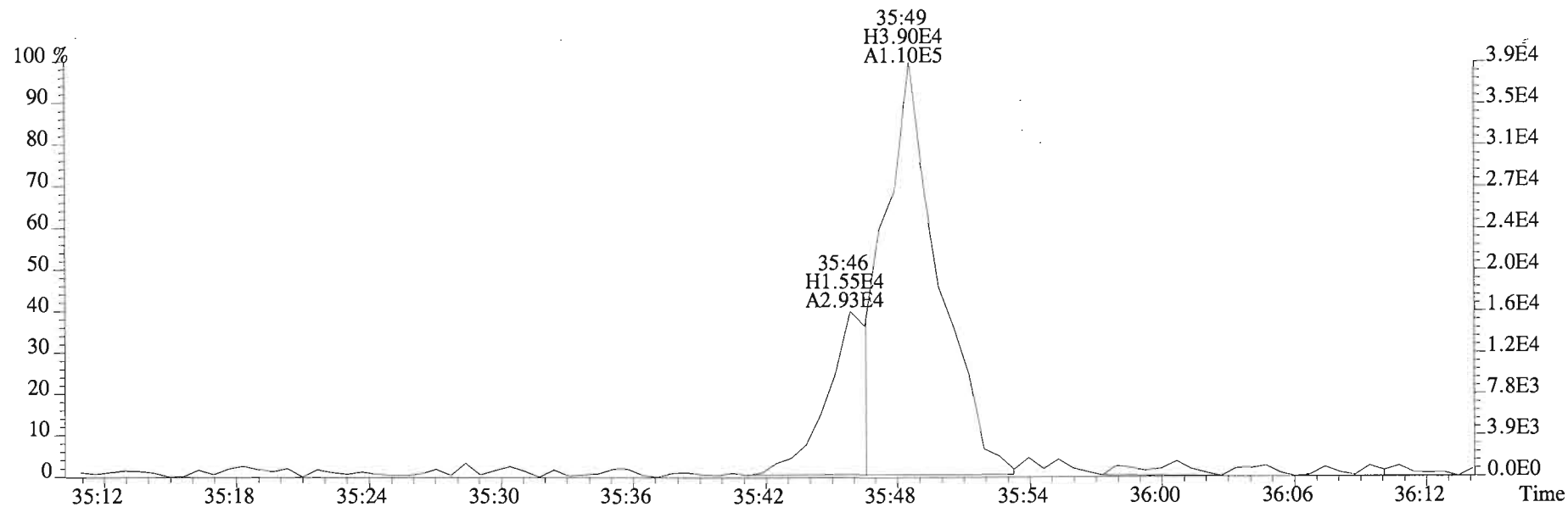
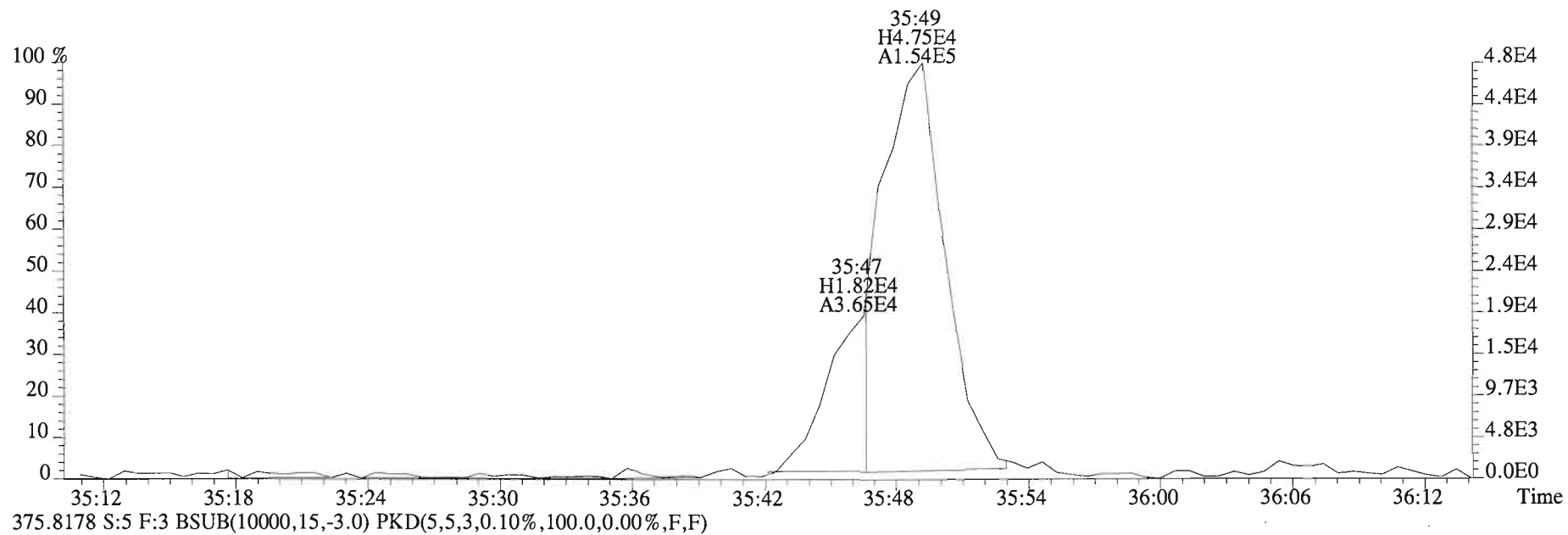
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Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



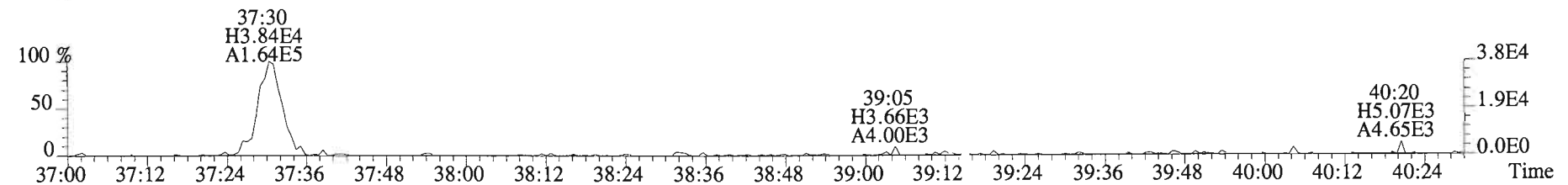
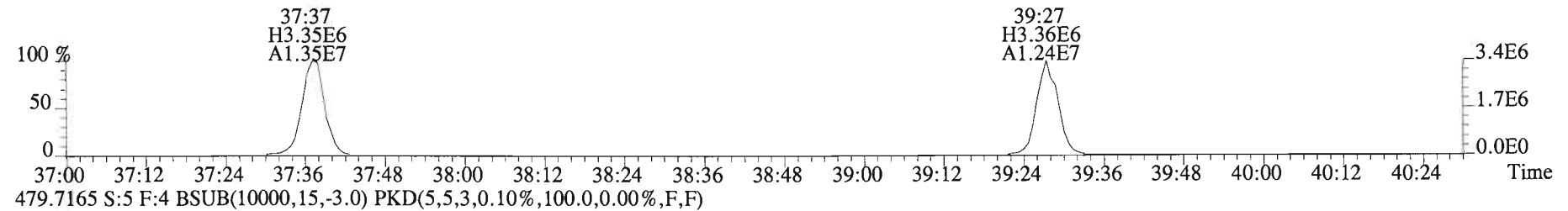
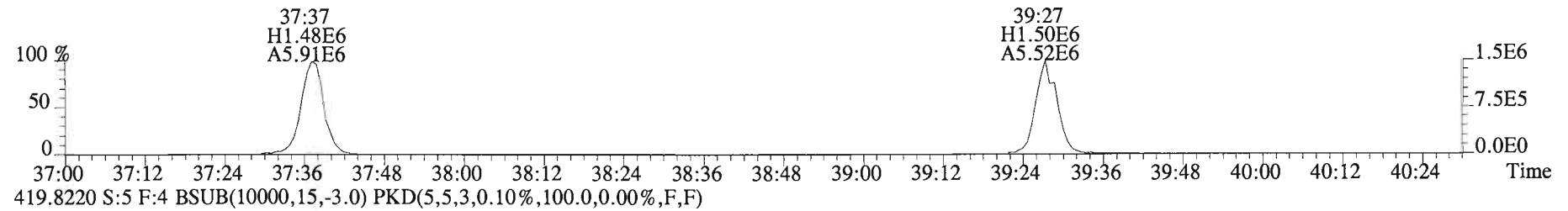
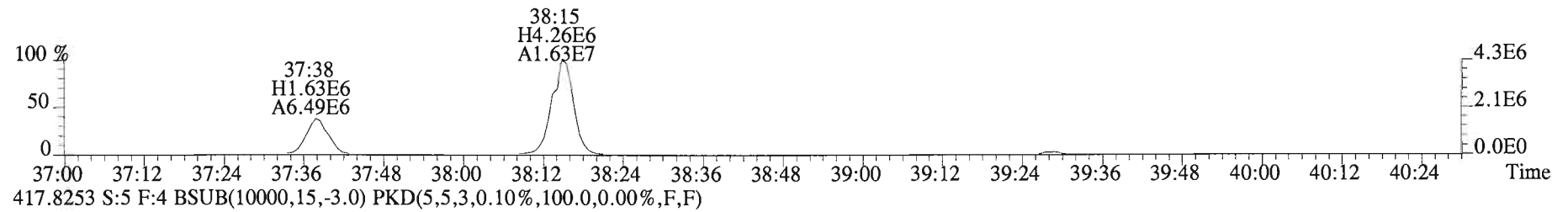
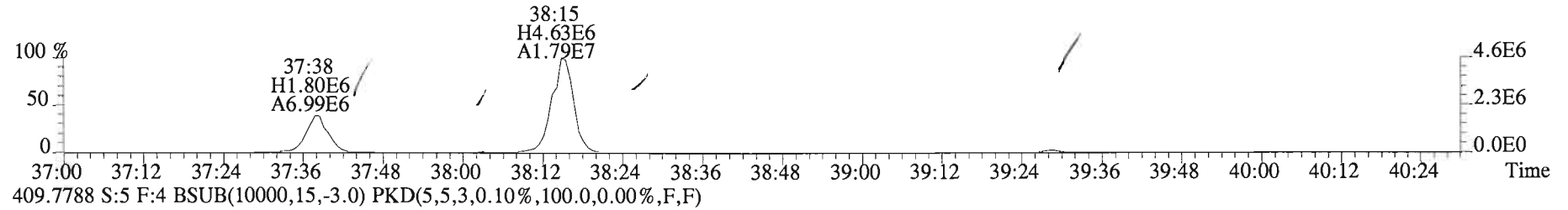
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Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



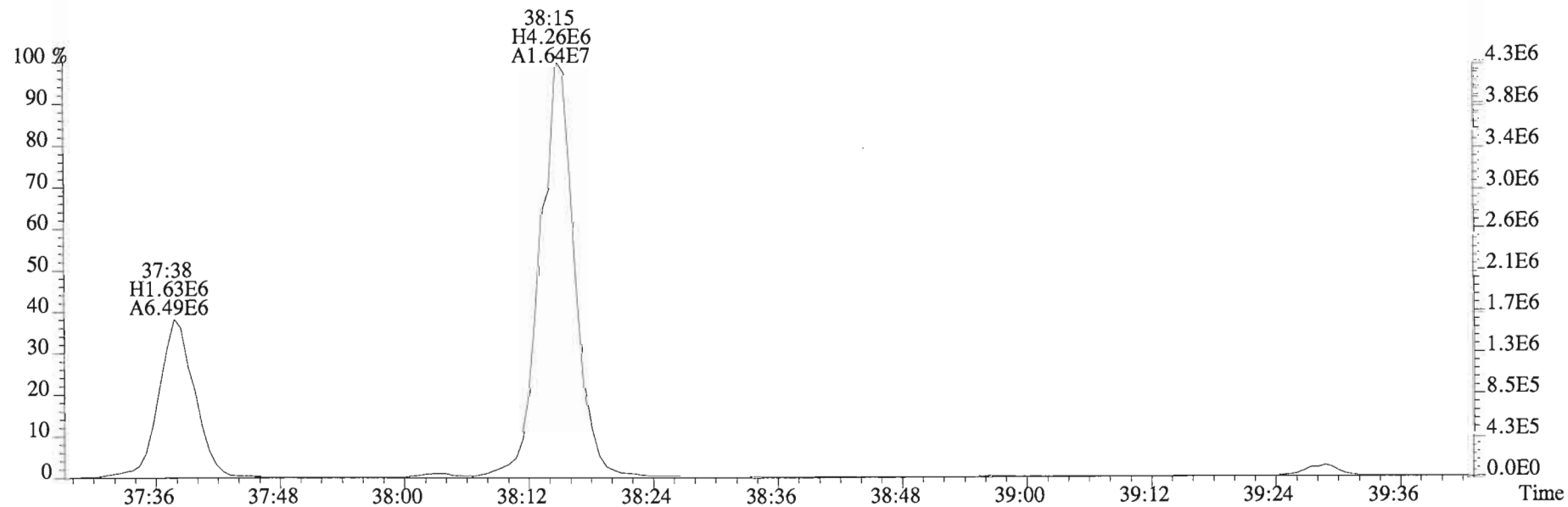
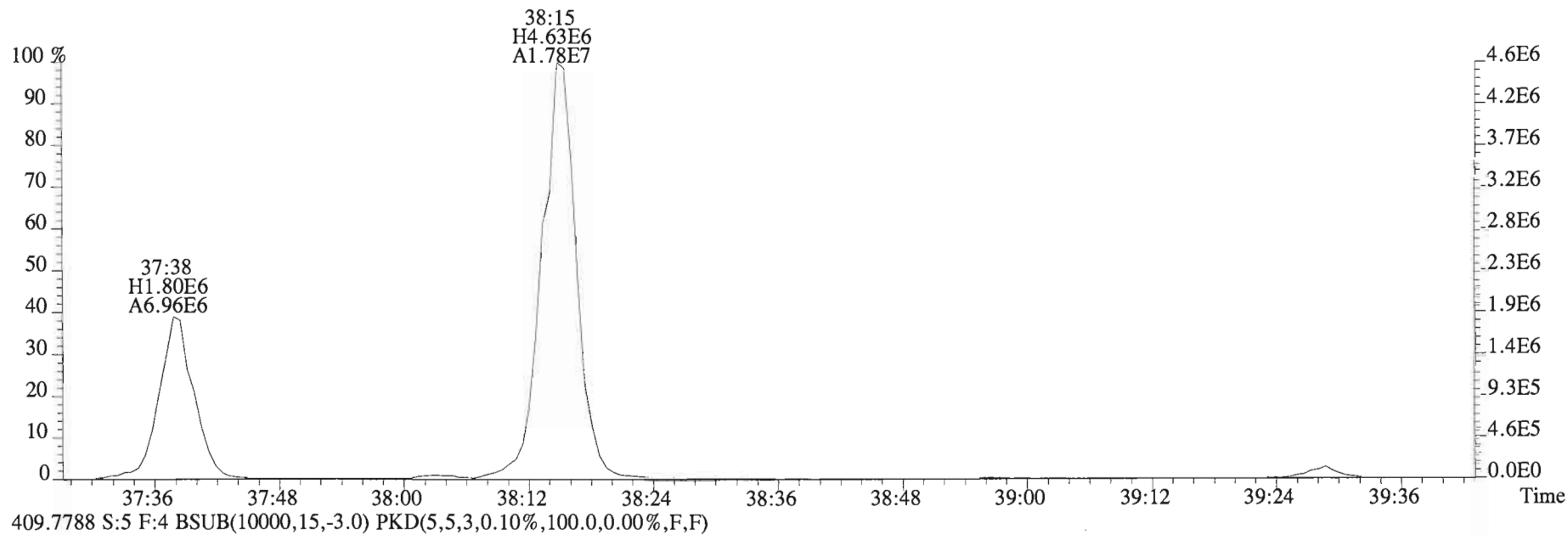
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Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



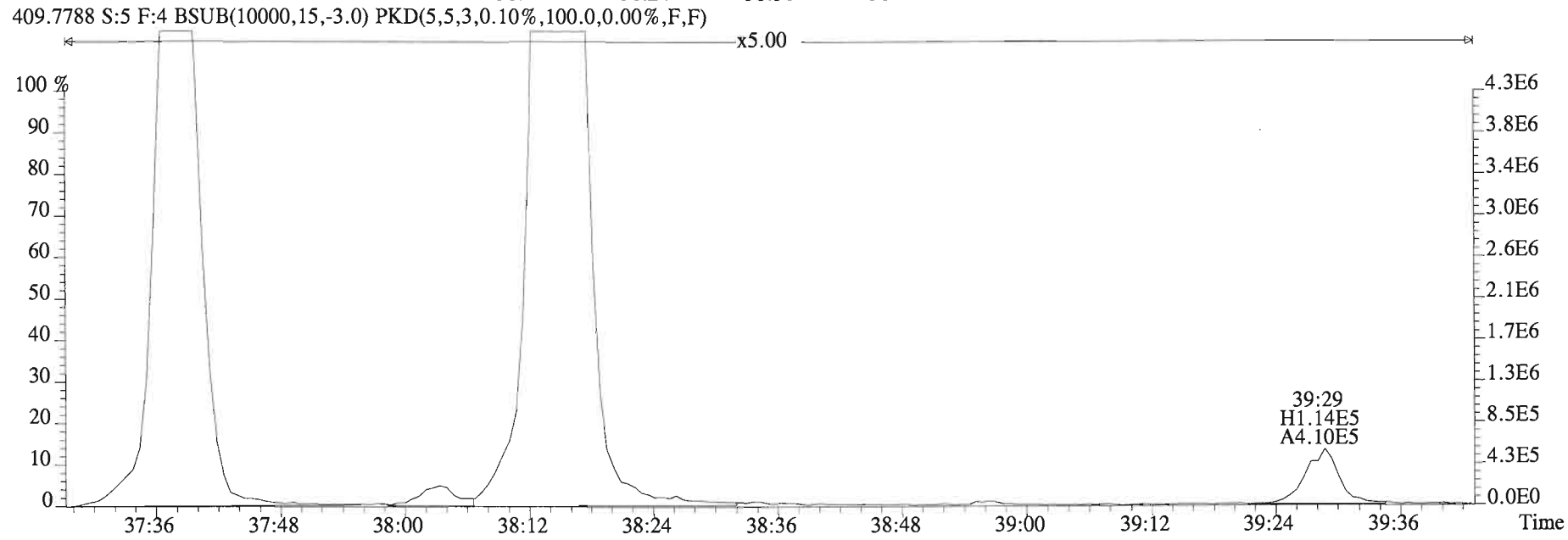
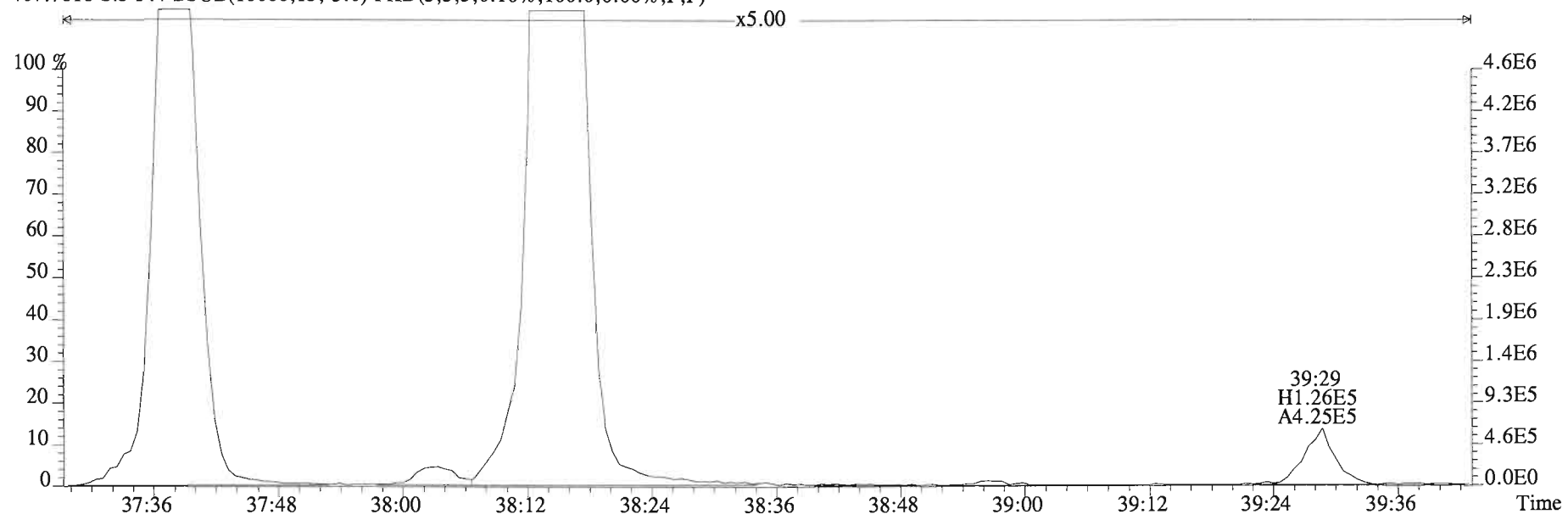
File:150220D2 #1-326 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



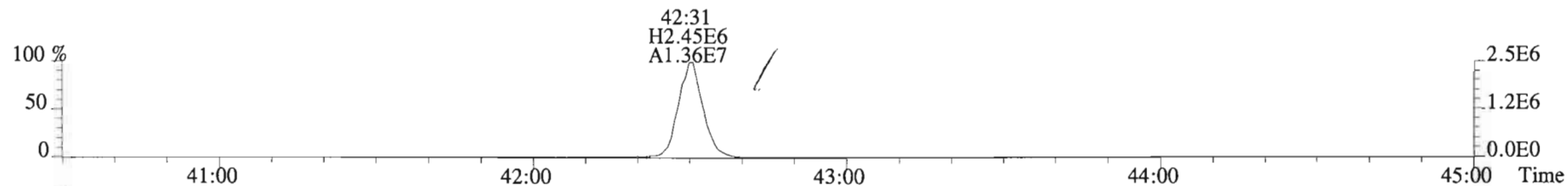
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Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



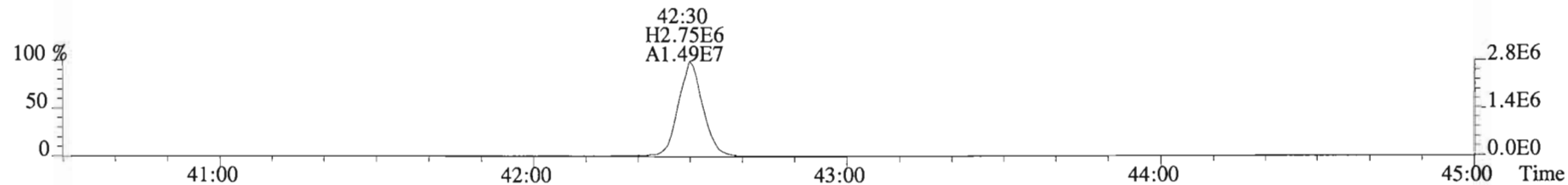
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Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
407.7818 S:5 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



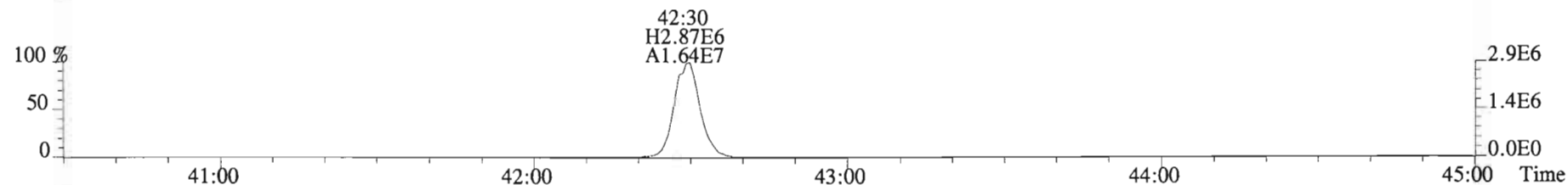
File:150220D2 #1-388 Acq:21-FEB-2015 04:20:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG-7 Text:1500166-05 ST-CB-04A-20150210-S 16.29 Exp:OCDD_DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



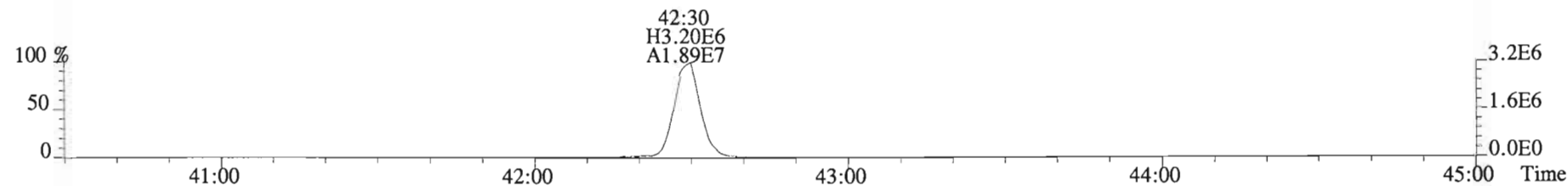
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



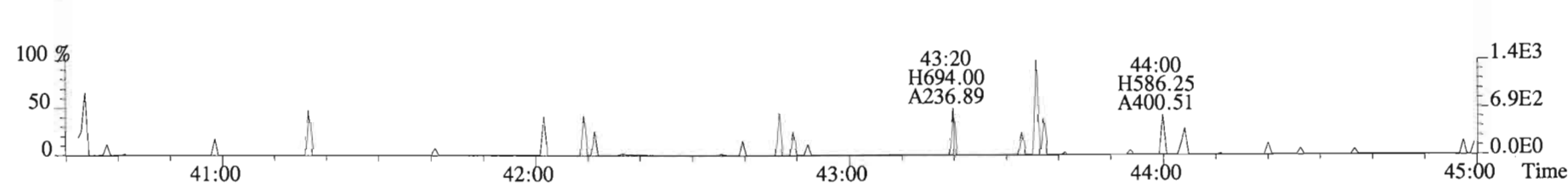
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



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)



SAMPLE DATA
EPA Method 1668C

Client ID: Method Blank
Lab ID: B5B0085-BLK1

Filename: 150226E1 S:4 Acq:26-FEB-15 14:58:15
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.000

ConCal: ST150226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	*	*	n	NotF η	1.33	*	1740	2.5	1.37	*	0.997-1.007	
Mono	PCB-2	*	*	n	NotF η	1.30	*	1740	2.5	1.21	*	0.983-0.993	
Mono	PCB-3	*	*	n	NotF η	1.30	*	1740	2.5	1.21	*	0.996-1.006	
Di	PCB-4/10	*	*	n	NotF η	1.67	*	8600	2.5	6.44	*	0.997-1.007	
Di	PCB-7/9	*	*	n	NotF η	1.25	*	8600	2.5	5.24	*	0.864-0.872	
Di	PCB-6	*	*	n	NotF η	1.24	*	8600	2.5	5.30	*	0.888-0.897	
Di	PCB-5/8	*	*	n	NotF η	1.27	*	8600	2.5	5.17	*	0.905-0.915	
Di	PCB-14	*	*	n	NotF η	1.47	*	8600	2.5	4.38	*	0.948-0.958	
Di	PCB-11	5.94e+05	1.50	y	25:15	1.28	13.7	*	2.5	*	1.000	0.995-1.005	
Di	PCB-12/13	*	*	n	NotF η	1.27	*	8600	2.5	5.09	*	1.011-1.021	
Di	PCB-15	*	*	n	NotF η	1.44	*	8600	2.5	4.47	*	1.023-1.031	
Tri	PCB-19	*	*	n	NotF η	1.18	*	1990	2.5	1.57	*	0.996-1.006	
Tri	PCB-30	*	*	n	NotF η	1.87	*	1990	2.5	0.991	*	1.033-1.043	
Tri	PCB-18	7.29e+04	0.98	y	25:53	0.89	2.51	*	2.5	*	0.954	0.949-0.959	
Tri	PCB-17	*	*	n	NotF η	0.96	*	1990	2.5	1.31	*	0.956-0.966	
Tri	PCB-24/27	*	*	n	NotF η	1.30	*	1990	2.5	0.965	*	0.977-0.987	
Tri	PCB-16/32	7.67e+04	1.11	y	27:08	1.05	2.23	*	2.5	*	1.000	0.996-1.006	
Tri	PCB-34	*	*	n	NotF η	1.30	*	2120	2.5	1.27	*	0.955-0.965	
Tri	PCB-23	*	*	n	NotF η	1.21	*	2120	2.5	1.37	*	0.958-0.968	
Tri	PCB-29	*	*	n	NotF η	1.21	*	2120	2.5	1.37	*	0.967-0.977	
Tri	PCB-26	*	*	n	NotF η	1.24	*	2120	2.5	1.34	*	0.974-0.984	
Tri	PCB-25	*	*	n	NotF η	1.10	*	2120	2.5	1.51	*	0.980-0.990	
Tri	PCB-31	9.20e+04	0.92	y	28:59	1.25	2.53	*	2.5	*	0.996	0.992-1.002	
Tri	PCB-28	9.68e+04	1.02	y	29:06	1.24	2.69	*	2.5	*	1.000	0.996-1.006	
Tri	PCB-20/21/33	8.35e+04	1.15	y	29:43	1.16	2.48	*	2.5	*	1.022	1.016-1.026	
Tri	PCB-22	*	*	n	NotF η	1.16	*	2120	2.5	1.42	*	1.032-1.042	
Tri	PCB-36	*	*	n	NotF η	1.30	*	2120	2.5	1.29	*	0.929-0.939	
Tri	PCB-39	*	*	n	NotF η	1.26	*	2120	2.5	1.33	*	0.943-0.953	
Tri	PCB-38	*	*	n	NotF η	1.24	*	2120	2.5	1.35	*	0.967-0.977	
Tri	PCB-35	*	*	n	NotF η	1.26	*	2120	2.5	1.34	*	0.982-0.992	
Tri	PCB-37	*	*	n	NotF η	1.35	*	2120	2.5	1.25	*	0.996-1.006	
Tetra	PCB-54	*	*	n	NotF η	1.02	*	2120	2.5	1.47	*	0.996-1.006	
Tetra	PCB-50	*	*	n	NotF η	0.78	*	2120	2.5	1.93	*	1.037-1.047	
Tetra	PCB-53	*	*	n	NotF η	1.14	*	2120	2.5	1.86	*	0.941-0.951	
Tetra	PCB-51	*	*	n	NotF η	1.16	*	2120	2.5	1.82	*	0.952-0.962	
Tetra	PCB-45	*	*	n	NotF η	1.04	*	2120	2.5	2.04	*	0.965-0.975	
Tetra	PCB-46	*	*	n	NotF η	0.95	*	2120	2.5	2.23	*	0.981-0.991	

Integrations by:

Analyst: DMS

Date: 2/27/15

Reviewed by: CT

Date: 3/2/15

Client ID: Method Blank
Lab ID: B5B0085-BLK1

Filename: 150226E1 S:4 Acq:26-FEB-15 14:58:15
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.000

ConCal: ST150226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	*	* n	NotF η	1.29	*		2120	2.5	1.64	*	0.996-1.006	
Tetra	PCB-73	*	* n	NotF η	1.41	*		2120	2.5	1.50	*	0.999-1.009	
Tetra	PCB-43/49	*	* n	NotF η	1.14	*		2120	2.5	1.86	*	1.005-1.015	
Tetra	PCB-47	*	* n	NotF η	1.20	*		2120	2.5	1.59	*	0.996-1.006	
Tetra	PCB-48/75	*	* n	NotF η	1.33	*		2120	2.5	1.44	*	0.999-1.009	
Tetra	PCB-65	*	* n	NotF η	1.32	*		2120	2.5	1.45	*	1.007-1.017	
Tetra	PCB-62	*	* n	NotF η	1.36	*		2120	2.5	1.41	*	1.011-1.021	
Tetra	PCB-44	*	* n	NotF η	0.87	*		2120	2.5	2.19	*	1.020-1.030	
Tetra	PCB-42/59	*	* n	NotF η	1.24	*		2120	2.5	1.54	*	1.027-1.037	
Tetra	PCB-41/64/71/72	*	* n	NotF η	1.34	*		2120	2.5	1.43	*	1.045-1.055	
Tetra	PCB-68	*	* n	NotF η	1.61	*		2120	2.5	1.19	*	1.053-1.063	
Tetra	PCB-40	*	* n	NotF η	0.86	*		2120	2.5	2.23	*	1.061-1.071	
Tetra	PCB-57	*	* n	NotF η	1.12	*		2120	2.5	1.58	*	0.965-0.975	
Tetra	PCB-67	*	* n	NotF η	1.09	*		2120	2.5	1.62	*	0.974-0.984	
Tetra	PCB-58	*	* n	NotF η	1.14	*		2120	2.5	1.56	*	0.977-0.987	
Tetra	PCB-63	*	* n	NotF η	1.16	*		2120	2.5	1.52	*	0.981-0.991	
Tetra	PCB-74	*	* n	NotF η	1.21	*		2120	2.5	1.46	*	0.989-0.999	
Tetra	PCB-61/70	*	* n	NotF η	1.13	*		2120	2.5	1.57	*	0.995-1.005	
Tetra	PCB-76/66	*	* n	NotF η	1.18	*		2120	2.5	1.50	*	1.000-1.010	
Tetra	PCB-80	*	* n	NotF η	1.32	*		2120	2.5	1.56	*	0.995-1.005	
Tetra	PCB-55	*	* n	NotF η	1.23	*		2120	2.5	1.68	*	1.004-1.014	
Tetra	PCB-56/60	*	* n	NotF η	1.11	*		2120	2.5	1.87	*	1.018-1.028	
Tetra	PCB-79	*	* n	NotF η	1.16	*		2120	2.5	1.78	*	1.048-1.058	
Tetra	PCB-78	*	* n	NotF η	1.18	*		2120	2.5	2.39	*	0.982-0.992	
Tetra	PCB-81	*	* n	NotF η	1.29	*		2120	2.5	2.18	*	0.995-1.005	
Tetra	PCB-77	*	* n	NotF η	1.29	*		2120	2.5	2.32	*	0.995-1.005	
Penta	PCB-104	*	* n	NotF η	1.26	*		1870	2.5	2.33	*	0.996-1.006	
Penta	PCB-96	*	* n	NotF η	1.09	*		1870	2.5	2.69	*	1.034-1.044	
Penta	PCB-103	*	* n	NotF η	0.97	*		1870	2.5	3.04	*	1.051-1.061	
Penta	PCB-100	*	* n	NotF η	0.96	*		1870	2.5	3.05	*	1.061-1.071	
Penta	PCB-94	*	* n	NotF η	1.13	*		1870	2.5	3.72	*	0.980-0.990	
Penta	PCB-95/98/102	7.06e+04	1.87	n	35:52	1.29	3.66	*	2.5	*	1.001	0.994-1.004	
Penta	PCB-93	*	* n	NotF η	1.06	*		1870	2.5	3.96	*	0.998-1.008	
Penta	PCB-88/91	*	* n	NotF η	1.12	*		1870	2.5	3.74	*	1.006-1.016	
Penta	PCB-121	*	* n	NotF η	1.76	*		1870	2.5	2.39	*	1.009-1.019	
Penta	PCB-84/92	*	* n	NotF η	1.07	*		1450	2.5	3.51	*	0.985-0.995	
Penta	PCB-89	*	* n	NotF η	1.00	*		1450	2.5	3.78	*	0.990-1.000	

Analyst: Dms

Date: 2/27/15

Client ID: Method Blank
Lab ID: B5B0085-BLK1

Filename: 150226E1 S:4 Acq:26-FEB-15 14:58:15
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.000

ConCal: ST150226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	*	* n	NotF η	1.21	*		1450	2.5	3.12	*	0.995-1.005	
Penta	PCB-113	*	* n	NotF η	1.34	*		1450	2.5	2.81	*	1.002-1.012	
Penta	PCB-99	*	* n	NotF η	1.25	*		1450	2.5	3.01	*	1.004-1.014	
Penta	PCB-119	*	* n	NotF η	1.88	*		1450	2.5	2.49	*	0.982-0.992	
Penta	PCB-108/112	*	* n	NotF η	1.41	*		1450	2.5	3.33	*	0.986-0.996	
Penta	PCB-83	*	* n	NotF η	1.66	*		1450	2.5	2.82	*	0.990-1.000	
Penta	PCB-97	*	* n	NotF η	1.30	*		1450	2.5	3.61	*	0.995-1.005	
Penta	PCB-86	*	* n	NotF η	1.03	*		1450	2.5	4.53	*	0.999-1.009	
Penta	PCB-87/117/125	*	* n	NotF η	1.59	*		1450	2.5	2.94	*	1.002-1.012	
Penta	PCB-111/115	*	* n	NotF η	1.86	*		1450	2.5	2.52	*	1.006-1.016	
Penta	PCB-85/116	*	* n	NotF η	1.39	*		1450	2.5	3.36	*	1.010-1.020	
Penta	PCB-120	*	* n	NotF η	1.99	*		1450	2.5	2.36	*	1.016-1.026	
Penta	PCB-110	*	* n	NotF η	1.70	*		1450	2.5	2.75	*	1.019-1.029	
Penta	PCB-82	*	* n	NotF η	0.74	*		1450	2.5	5.26	*	0.971-0.981	
Penta	PCB-124	*	* n	NotF η	1.30	*		1450	2.5	3.00	*	0.988-0.998	
Penta	PCB-107/109	*	* n	NotF η	1.34	*		1450	2.5	2.92	*	0.991-1.001	
Penta	PCB-123	*	* n	NotF η	1.25	*		1450	2.5	3.12	*	0.995-1.005	
Penta	PCB-106/118	*	* n	NotF η	1.29	*		1450	2.5	3.22	*	0.996-1.006	
Penta	PCB-114	*	* n	NotF η	1.45	*		2200	2.5	3.93	*	0.995-1.005	
Penta	PCB-122	*	* n	NotF η	1.22	*		2200	2.5	4.68	*	0.999-1.009	
Penta	PCB-105	*	* n	NotF η	1.56	*		2200	2.5	4.02	*	0.995-1.005	
Penta	PCB-127	*	* n	NotF η	1.31	*		2200	2.5	4.19	*	0.995-1.005	
Penta	PCB-126	*	* n	NotF η	1.41	*		220	2.5	0.415	*	0.995-1.005	
Hexa	PCB-155	*	* n	NotF η	1.20	*		1880	2.5	3.23	*	0.966-1.006	
Hexa	PCB-150	*	* n	NotF η	1.13	*		1880	2.5	3.43	*	1.030-1.040	
Hexa	PCB-152	*	* n	NotF η	1.17	*		1880	2.5	3.31	*	1.043-1.053	
Hexa	PCB-145	*	* n	NotF η	1.09	*		1880	2.5	3.54	*	1.055-1.065	
Hexa	PCB-136	*	* n	NotF η	1.14	*		1880	2.5	3.39	*	1.063-1.073	
Hexa	PCB-148	*	* n	NotF η	0.82	*		1880	2.5	4.73	*	1.066-1.076	
Hexa	PCB-154	*	* n	NotF η	0.89	*		1880	2.5	4.34	*	1.079-1.089	
Hexa	PCB-151	*	* n	NotF η	0.82	*		1880	2.5	4.73	*	1.097-1.107	
Hexa	PCB-135	*	* n	NotF η	0.80	*		1880	2.5	4.85	*	1.101-1.113	
Hexa	PCB-144	*	* n	NotF η	0.86	*		1880	2.5	4.52	*	1.105-1.116	
Hexa	PCB-147	*	* n	NotF η	0.78	*		1880	2.5	4.96	*	1.108-1.120	
Hexa	PCB-139/149	*	* n	NotF η	0.87	*		1880	2.5	4.44	*	1.115-1.127	
Hexa	PCB-140	*	* n	NotF η	0.78	*		1880	2.5	4.97	*	1.120-1.132	
Hexa	PCB-134/143	*	* n	NotF η	0.93	*		2180	2.5	4.82	*	0.970-0.980	

Analyst: DMS

Date: 2/27/15

Client ID: Method Blank
Lab ID: B5B0085-BLK1

Filename: 150226E1 S:4 Acq:26-FEB-15 14:58:15
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.000

ConCal: ST150226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	*	*	n	NotF _η	0.91	*	1210	2.5	2.73	*	0.977-0.987	
Hexa	PCB-131	*	*	n	NotF _η	0.85	*	1210	2.5	2.94	*	0.981-0.991	
Hexa	PCB-146/165	*	*	n	NotF _η	1.08	*	1210	2.5	2.30	*	0.986-0.996	
Hexa	PCB-132/161	*	*	n	NotF _η	1.12	*	1210	2.5	2.22	*	0.992-1.002	
Hexa	PCB-153	*	*	n	NotF _η	1.20	*	1210	2.5	2.08	*	0.996-1.006	
Hexa	PCB-168	*	*	n	NotF _η	1.36	*	1210	2.5	1.83	*	1.000-1.010	
Hexa	PCB-141	*	*	n	NotF _η	1.16	*	1210	2.5	2.50	*	0.995-1.005	
Hexa	PCB-137	*	*	n	NotF _η	1.18	*	1210	2.5	2.45	*	1.004-1.014	
Hexa	PCB-130	*	*	n	NotF _η	0.92	*	1210	2.5	3.14	*	1.006-1.016	
Hexa	PCB-138/163/164	*	*	n	NotF _η	1.38	*	1210	2.5	1.89	*	0.996-1.006	
Hexa	PCB-158/160	*	*	n	NotF _η	1.48	*	1210	2.5	1.77	*	1.001-1.011	
Hexa	PCB-129	*	*	n	NotF _η	0.99	*	1210	2.5	2.64	*	1.007-1.017	
Hexa	PCB-166	*	*	n	NotF _η	1.14	*	1210	2.5	1.78	*	0.988-0.998	
Hexa	PCB-159	*	*	n	NotF _η	1.22	*	1210	2.5	1.67	*	0.995-1.005	
Hexa	PCB-128/162	*	*	n	NotF _η	1.03	*	1210	2.5	1.97	*	1.002-1.012	
Hexa	PCB-167	*	*	n	NotF _η	1.18	*	1210	2.5	1.71	*	0.995-1.005	
Hexa	PCB-156	*	*	n	NotF _η	1.27	*	1210	2.5	1.47	*	0.995-1.005	
Hexa	PCB-157	*	*	n	NotF _η	1.22	*	1210	2.5	1.44	*	0.995-1.005	
Hexa	PCB-169	*	*	n	NotF _η	1.07	*	1210	2.5	1.45	*	0.995-1.005	
Hepta	PCB-188	*	*	n	NotF _η	1.52	*	2130	2.5	2.77	*	0.996-1.006	
Hepta	PCB-184	*	*	n	NotF _η	1.34	*	2130	2.5	3.15	*	1.006-1.016	
Hepta	PCB-179	*	*	n	NotF _η	1.39	*	2130	2.5	3.03	*	1.024-1.034	
Hepta	PCB-176	*	*	n	NotF _η	1.45	*	2130	2.5	2.90	*	1.035-1.045	
Hepta	PCB-186	*	*	n	NotF _η	1.46	*	2130	2.5	2.90	*	1.049-1.059	
Hepta	PCB-178	*	*	n	NotF _η	1.07	*	2130	2.5	3.92	*	1.061-1.071	
Hepta	PCB-175	*	*	n	NotF _η	1.05	*	2130	2.5	4.03	*	1.069-1.079	
Hepta	PCB-182/187	*	*	n	NotF _η	1.14	*	2130	2.5	3.71	*	1.073-1.083	
Hepta	PCB-183	*	*	n	NotF _η	1.22	*	2130	2.5	3.45	*	1.080-1.090	
Hepta	PCB-185	*	*	n	NotF _η	1.40	*	2130	2.5	2.31	*	0.950-0.960	
Hepta	PCB-174	*	*	n	NotF _η	1.29	*	2130	2.5	2.52	*	0.958-0.968	
Hepta	PCB-181	*	*	n	NotF _η	1.35	*	2130	2.5	2.40	*	0.960-0.970	
Hepta	PCB-177	*	*	n	NotF _η	1.27	*	2130	2.5	2.56	*	0.963-0.973	
Hepta	PCB-171	*	*	n	NotF _η	1.46	*	2130	2.5	2.23	*	0.969-0.979	
Hepta	PCB-173	*	*	n	NotF _η	1.10	*	2130	2.5	2.93	*	0.978-0.988	
Hepta	PCB-172	*	*	n	NotF _η	1.35	*	2130	2.5	2.39	*	0.987-0.997	
Hepta	PCB-192	*	*	n	NotF _η	1.74	*	2130	2.5	1.86	*	0.991-1.001	
Hepta	PCB-180	*	*	n	NotF _η	1.45	*	2130	2.5	2.24	*	0.995-1.005	

Analyst: DMJ

Date: 2/27/15

Client ID: Method Blank
Lab ID: B5B0085-BLK1

Filename: 150226E1 S:4 Acq:26-FEB-15 14:58:15
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.000

ConCal: ST150226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	*	* n	NotF η	1.85	*		2130	2.5	1.75	*	0.999-1.009	
Hepta	PCB-191	*	* n	NotF η	1.86	*		2130	2.5	1.74	*	1.005-1.015	
Hepta	PCB-170	*	* n	NotF η	1.67	*		2130	2.5	2.05	*	0.995-1.005	
Hepta	PCB-190	*	* n	NotF η	2.25	*		2130	2.5	1.53	*	0.999-1.009	
Hepta	PCB-189	*	* n	NotF η	1.67	*		2130	2.5	1.56	*	0.995-1.005	
Octa	PCB-202	*	* n	NotF η	1.02	*		2040	2.5	2.96	*	0.995-1.005	
Octa	PCB-201	*	* n	NotF η	1.10	*		2040	2.5	2.76	*	1.005-1.015	
Octa	PCB-204	*	* n	NotF η	1.07	*		2040	2.5	2.81	*	1.009-1.019	
Octa	PCB-197	*	* n	NotF η	1.17	*		2040	2.5	2.59	*	1.015-1.025	
Octa	PCB-200	*	* n	NotF η	1.03	*		2040	2.5	2.92	*	1.034-1.044	
Octa	PCB-198	*	* n	NotF η	0.75	*		2040	2.5	4.01	*	1.062-1.072	
Octa	PCB-199	*	* n	NotF η	0.74	*		2040	2.5	4.07	*	1.064-1.074	
Octa	PCB-196/203	*	* n	NotF η	0.83	*		2040	2.5	3.64	*	1.070-1.080	
Octa	PCB-195	*	* n	NotF η	1.14	*		1780	2.5	2.60	*	0.979-0.989	
Octa	PCB-194	*	* n	NotF η	1.29	*		1780	2.5	2.30	*	0.995-1.005	
Octa	PCB-205	*	* n	NotF η	1.61	*		1780	2.5	1.84	*	1.001-1.010	
Nona	PCB-208	*	* n	NotF η	1.01	*		1560	2.5	1.53	*	0.995-1.005	
Nona	PCB-207	*	* n	NotF η	1.03	*		1560	2.5	1.50	*	1.001-1.011	
Nona	PCB-206	*	* n	NotF η	0.88	*		1560	2.5	2.81	*	0.995-1.005	
Deca	PCB-209	3.91e+04	1.19	y	56:44	1.35	2.82	*	2.5	*	1.000	0.995-1.005	

Analyst: DMS

Date: 2/27/15

Client ID: Method Blank
Lab ID: B5B0085-BLK1

Filename: 150226E1 S:4 Acq:26-FEB-15 14:58:15
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.0000 EndCAL: NA

ConCal: ST150226E1-1

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	*	* n	NotFnd	1.31	*	
Total Di-PCB	5.94e+05	1.50 y	25:15	1.32	13.7204	
Total Tri-PCB	1.50e+05	0.98 y	25:53	1.20	4.73984	
Total Tri-PCB	2.72e+05	0.92 y	28:59	1.23	7.70303	Sum:12.4429
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	3.91e+04	1.19 y	56:44	1.35	2.81659	

Total PCB Conc: ~~22.6353240000~~

29.0

CT
3/2/15

Integrations

by
Analyst: DMS

Date: 2/27/15

Client ID: Method Blank
Lab ID: B5B0085-BLK1

Filename: 150226E1 S:4 Acq:26-FEB-15 14:58:15
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol:1.0000

ConCal: ST150226E1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS
13C-PCB-1	6.40e+07	3.24	y	0.91	16:10	0.623	0.619-0.625	1690	84.7	
13C-PCB-3	7.70e+07	3.24	y	0.94	18:46	0.723	0.718-0.726	1970	98.3	
13C-PCB-4	3.72e+07	1.60	y	0.60	20:05	0.774	0.770-0.778	1500	74.9	
13C-PCB-9	6.14e+07	1.56	y	0.96	21:52	0.843	0.839-0.847	1540	76.9	
13C-PCB-11	6.75e+07	1.56	y	0.95	25:14	0.973	0.968-0.978	1700	85.1	
13C-PCB-19	4.34e+07	1.10	y	0.56	24:13	0.934	0.929-0.939	1860	93.0	
13C-PCB-28	5.82e+07	1.06	y	1.07	29:05	1.004	0.999-1.009	1480	74.1	
13C-PCB-32	6.57e+07	1.07	y	0.83	27:08	1.046	1.041-1.051	1910	95.7	
13C-PCB-37	6.83e+07	1.10	y	0.96	32:58	1.137	1.131-1.143	1930	96.7	
13C-PCB-47	5.13e+07	0.82	y	0.77	31:60	0.870	0.867-0.875	2440	122	
13C-PCB-52	4.66e+07	0.81	y	0.71	31:30	0.856	0.853-0.861	2390	120	
13C-PCB-54	5.96e+07	0.83	y	1.06	27:58	0.760	0.757-0.765	2050	103	
13C-PCB-70	5.78e+07	0.81	y	0.99	35:32	0.966	0.961-0.971	2120	106	
13C-PCB-77	3.67e+07	0.84	y	0.96	39:41	1.079	1.073-1.083	1390	69.6	
13C-PCB-80	5.27e+07	0.81	y	1.02	35:58	0.978	0.973-0.983	1880	94.2	
13C-PCB-81	3.97e+07	0.82	y	1.00	39:06	1.063	1.057-1.067	1450	72.7	
13C-PCB-95	3.00e+07	1.60	y	0.70	35:50	0.912	0.908-0.918	2720	136	
13C-PCB-97	2.19e+07	1.62	y	0.66	38:51	0.989	0.984-0.994	2110	106	
13C-PCB-101	2.65e+07	1.60	y	0.77	37:32	0.955	0.951-0.961	2190	110	
13C-PCB-104	4.16e+07	1.66	y	0.97	32:39	0.831	0.828-0.836	2730	137	
13C-PCB-105	2.43e+07	1.60	y	1.20	43:07	0.930	0.924-0.934	1380	69.2	
13C-PCB-114	2.76e+07	1.65	y	1.26	42:16	0.911	0.905-0.915	1500	75.2	
13C-PCB-118	2.51e+07	1.68	y	0.94	41:37	1.059	1.054-1.064	1700	85.0	
13C-PCB-123	2.61e+07	1.60	y	0.88	41:26	1.054	1.049-1.059	1880	93.9	
13C-PCB-126	2.63e+07	1.63	y	1.13	45:22	0.978	0.972-0.982	1600	79.8	
13C-PCB-127	2.76e+07	1.61	y	1.26	43:28	0.937	0.931-0.941	1500	74.9	
13C-PCB-138	2.76e+07	1.37	y	1.12	44:51	0.967	0.961-0.971	1690	84.3	
13C-PCB-141	2.49e+07	1.37	y	1.09	44:01	0.949	0.943-0.953	1560	77.8	
13C-PCB-153	2.88e+07	1.33	y	1.27	43:17	0.933	0.927-0.937	1550	77.3	
13C-PCB-155	2.97e+07	1.26	y	0.87	37:04	0.944	0.939-0.949	2170	108	
13C-PCB-156	3.78e+07	1.33	y	1.35	48:05	1.037	1.032-1.042	1910	95.6	
13C-PCB-157	4.01e+07	1.35	y	1.42	48:21	1.042	1.037-1.047	1940	96.8	
13C-PCB-159	3.34e+07	1.30	y	1.37	46:08	0.995	0.989-0.999	1670	83.4	
13C-PCB-167	3.41e+07	1.33	y	1.38	46:49	1.009	1.004-1.014	1680	84.2	
13C-PCB-169	3.99e+07	1.30	y	1.38	50:27	1.088	1.084-1.094	1970	98.6	
13C-PCB-170	1.94e+07	0.45	y	0.60	50:48	1.095	1.091-1.103	2200	110	
13C-PCB-180	2.28e+07	0.45	y	0.76	49:21	1.064	1.059-1.069	2060	103	
13C-PCB-188	1.97e+07	0.45	y	1.01	42:54	0.925	0.919-0.929	1330	66.5	
13C-PCB-189	2.41e+07	0.47	y	0.80	52:16	1.127	1.124-1.136	2060	103	
13C-PCB-194	2.04e+07	0.93	y	0.75	53:45	0.995	0.990-1.000	1980	98.8	
13C-PCB-202	3.11e+07	0.92	y	0.99	48:17	1.041	1.036-1.046	2150	107	
13C-PCB-206	2.17e+07	0.80	y	0.73	55:24	1.025	1.020-1.301	2140	107	
13C-PCB-208	3.04e+07	0.79	y	1.08	53:02	0.982	0.977-0.987	2030	101	
13C-PCB-209	2.06e+07	1.21	y	0.71	56:44	1.050	1.045-1.055	2100	105	

CRS vs. RS

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	5.04e+07	0.82	y	1.02	37:52	1.029	1.024-1.033	1800	90.0
13C-PCB-178	1.72e+07	0.44	y	0.64	45:41	0.985	0.980-0.989	1840	92.2

PS vs. IS

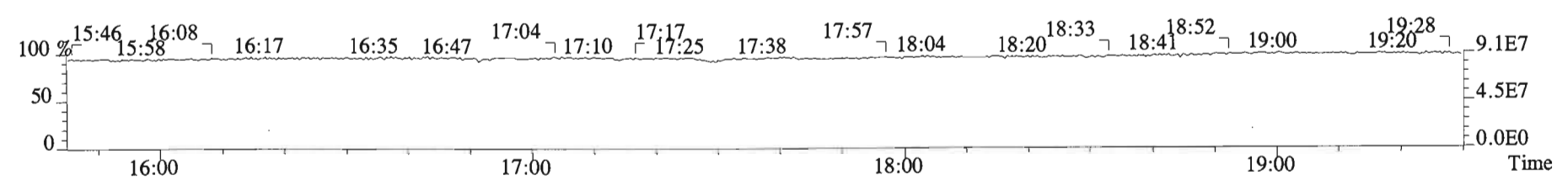
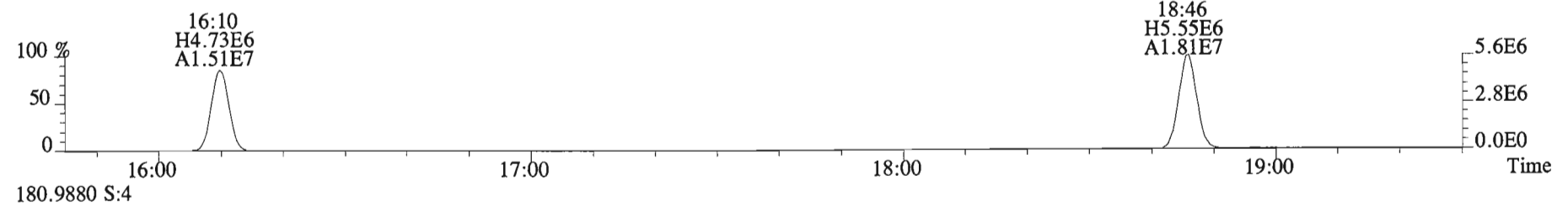
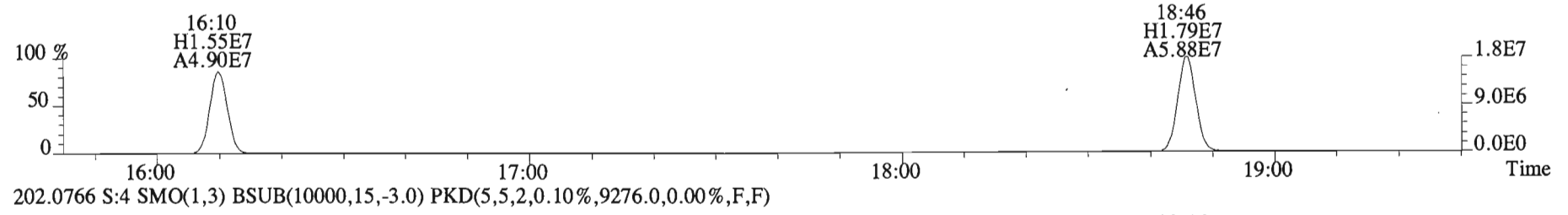
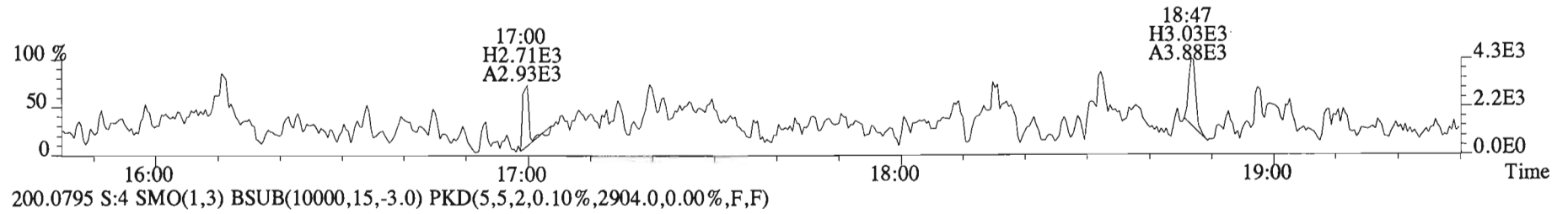
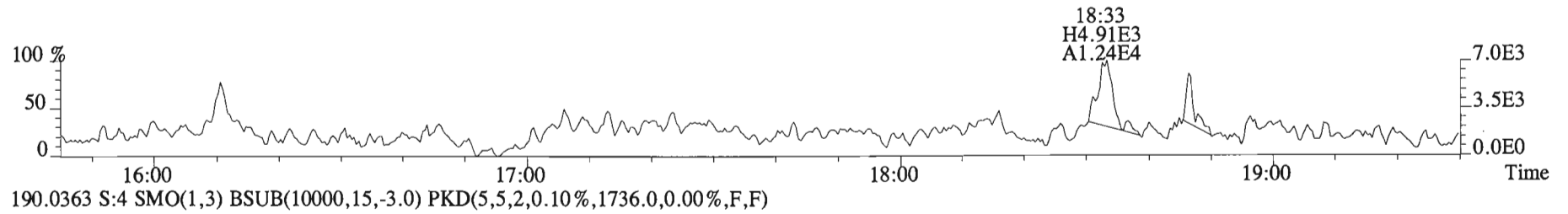
Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	5.04e+07	0.82	y	1.02	37:52	0.969	0.963-0.973	2480	124
13C-PCB-178	1.72e+07	0.44	y	0.84	45:41	0.926	0.920-0.930	1790	89.3

RS

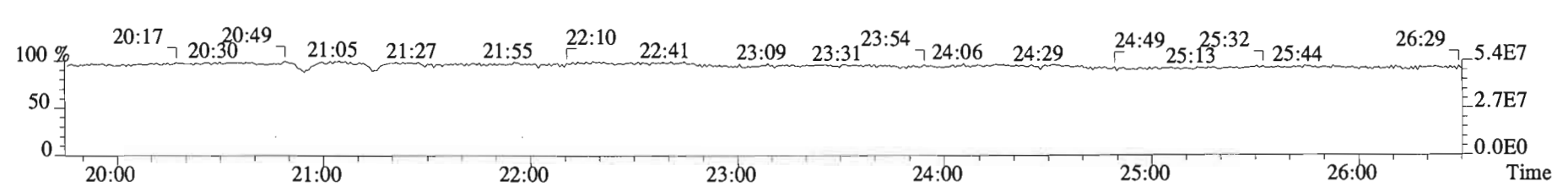
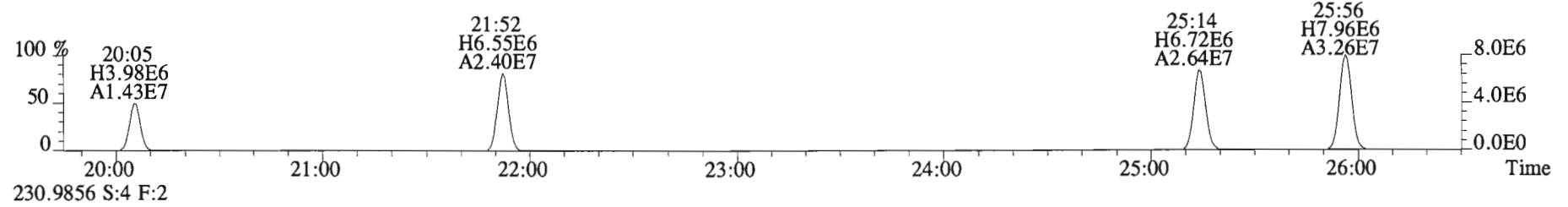
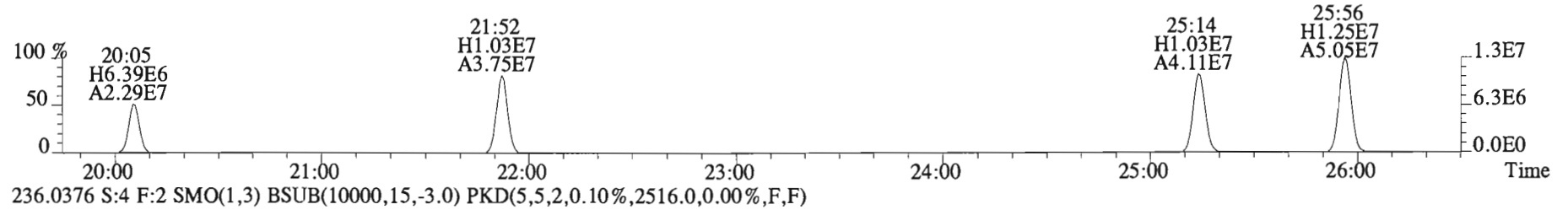
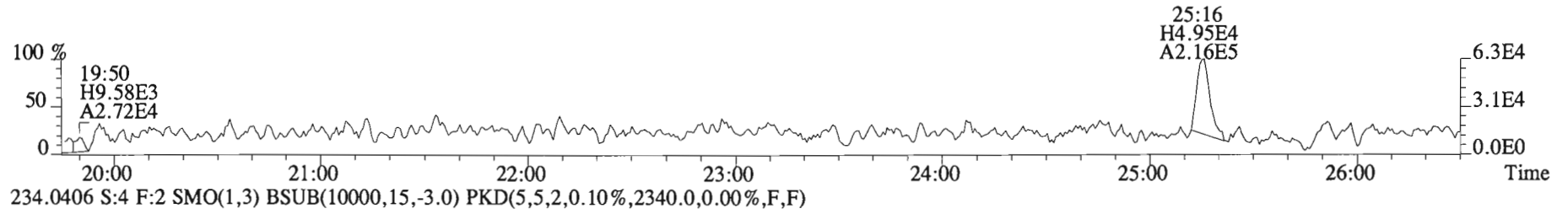
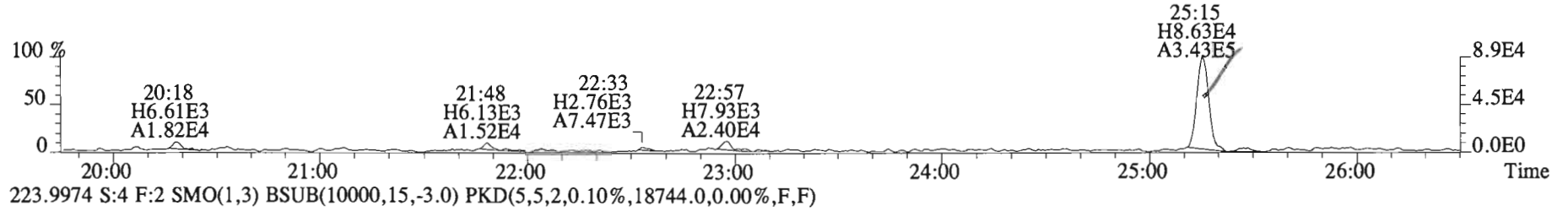
Name	Resp	RA	RRF	RT	Conc	
13C-PCB-15	8.31e+07	1.55	y	1.00	25:56	2000
13C-PCB-31	7.34e+07	1.06	y	1.00	28:59	2000
13C-PCB-60	5.47e+07	0.82	y	1.00	36:47	2000
13C-PCB-111	3.16e+07	1.56	y	1.00	39:17	2000
13C-PCB-128	2.93e+07	1.32	y	1.00	46:23	2000
13C-PCB-205	2.77e+07	0.89	y	1.00	54:02	2000

Analyst: ams
Date: 2/27/15

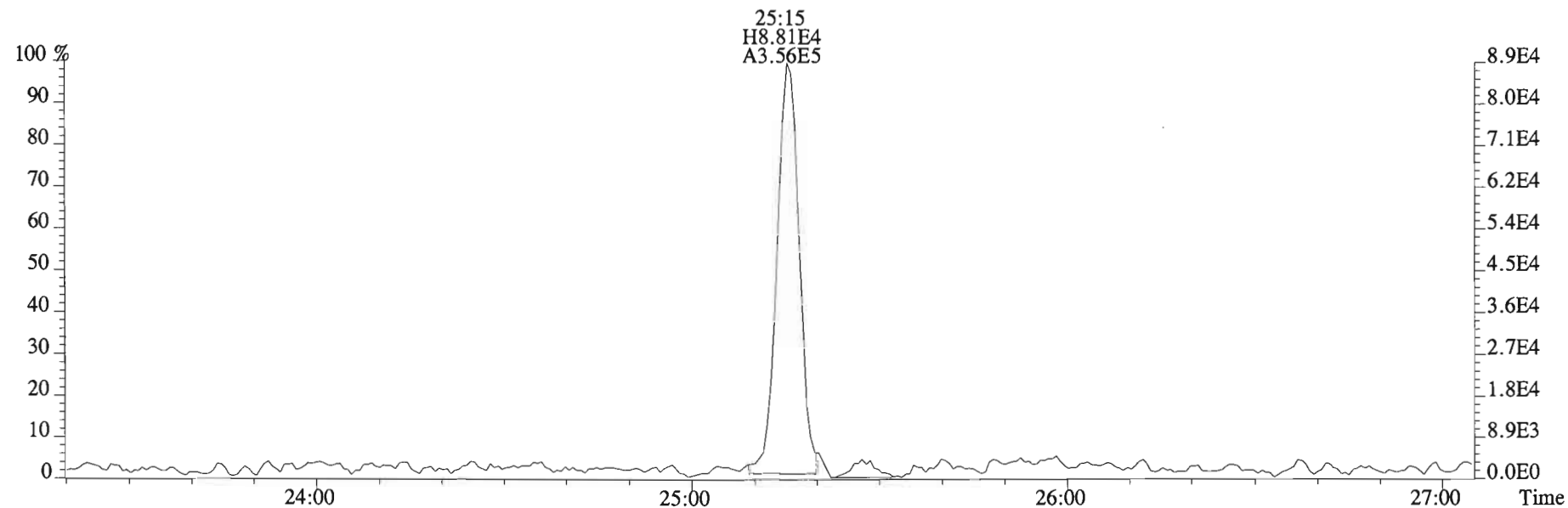
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
188.0393 S:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2180.0,0.00%,F,F)



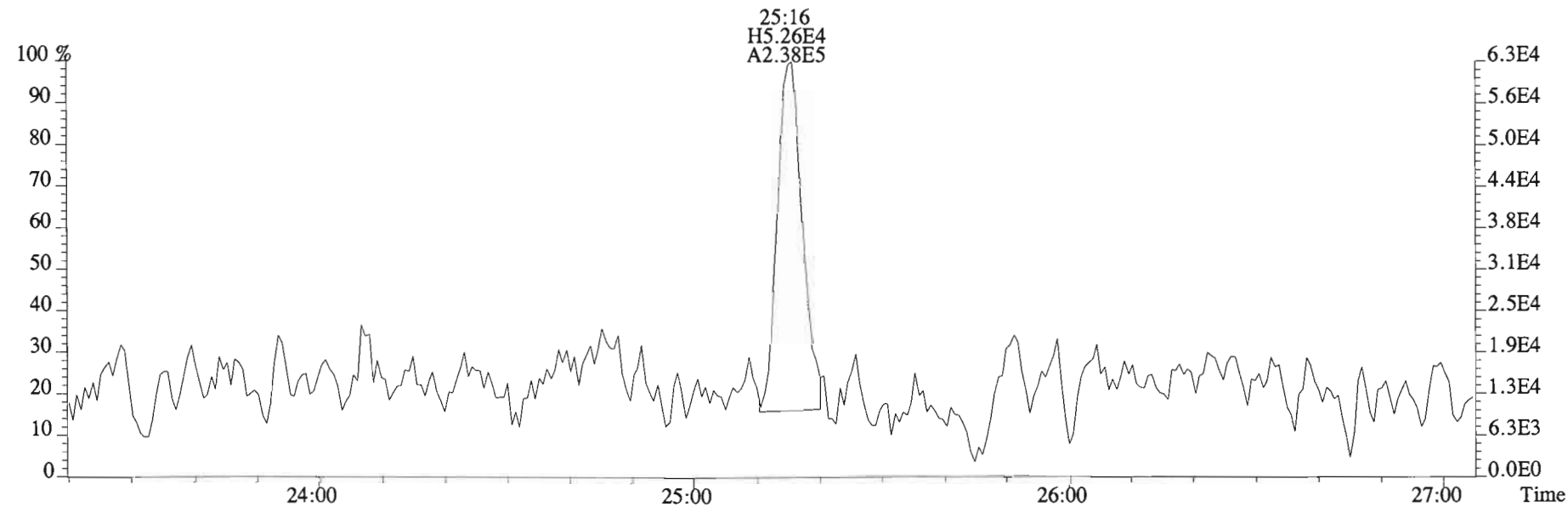
File:150226E1 #1-758 Acq:26-FEB-2015 14:58:15 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
 222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3012.0,0.00%,F,F)



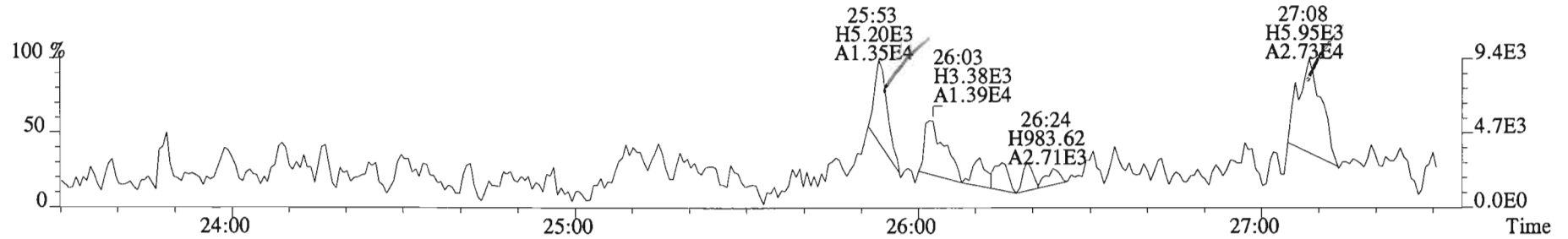
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
222.0003 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3012.0,0.00%,F,F)



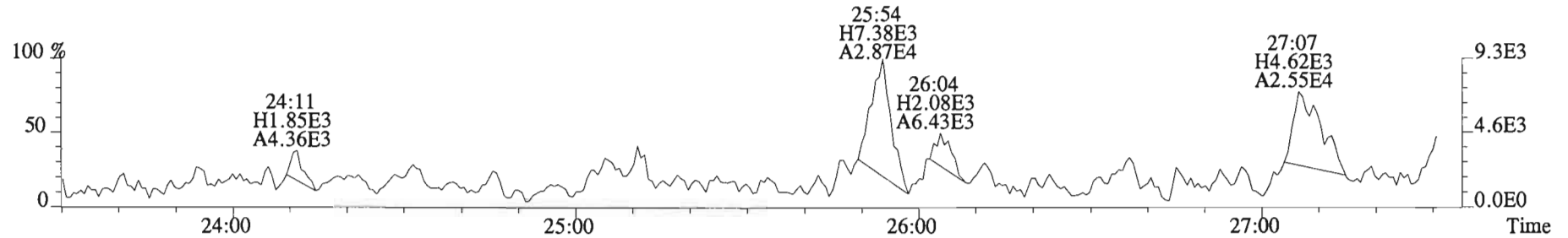
223.9974 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,18744.0,0.00%,F,F)



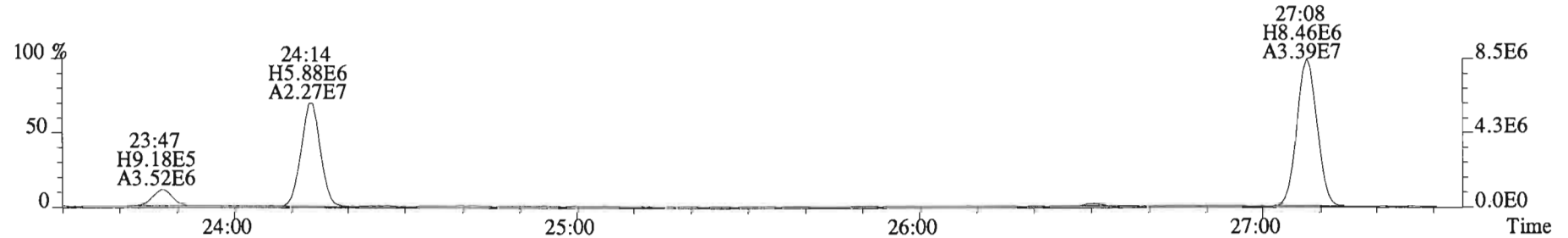
File:150226E1 #1-758 Acq:26-FEB-2015 14:58:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
255.9613 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2936.0,0.00%,F,F)



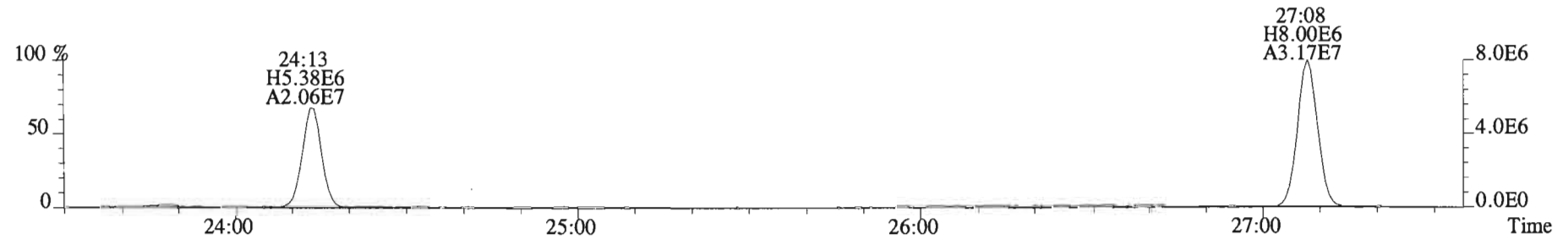
257.9584 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1992.0,0.00%,F,F)



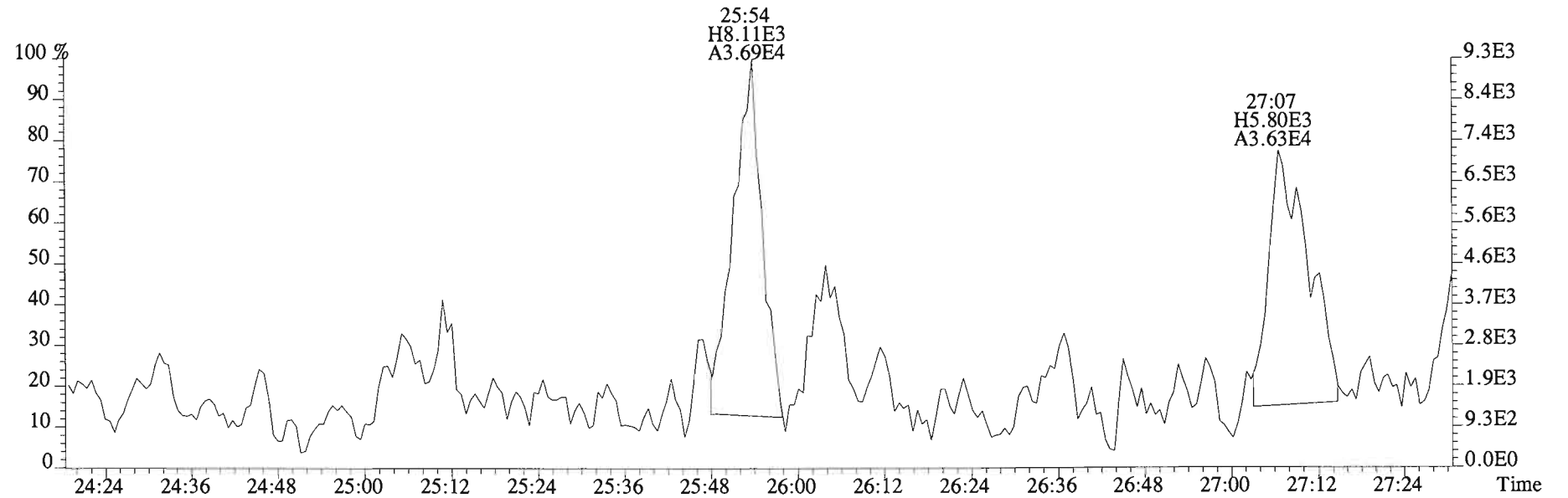
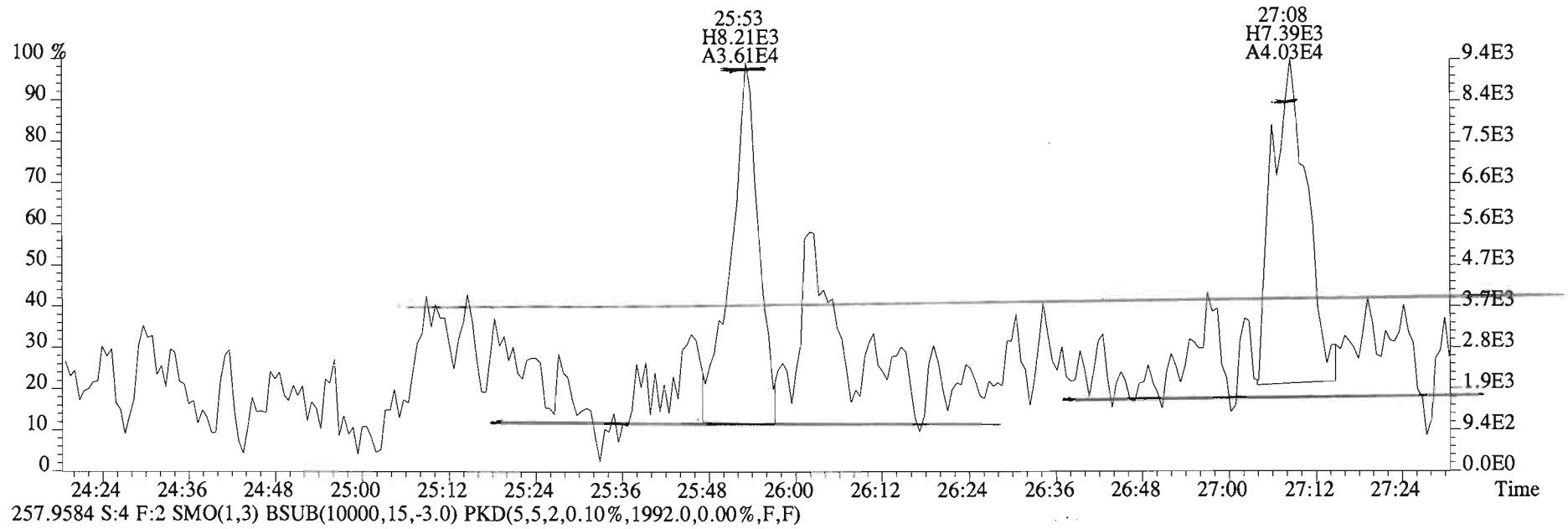
268.0016 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,81700.0,0.00%,F,F)



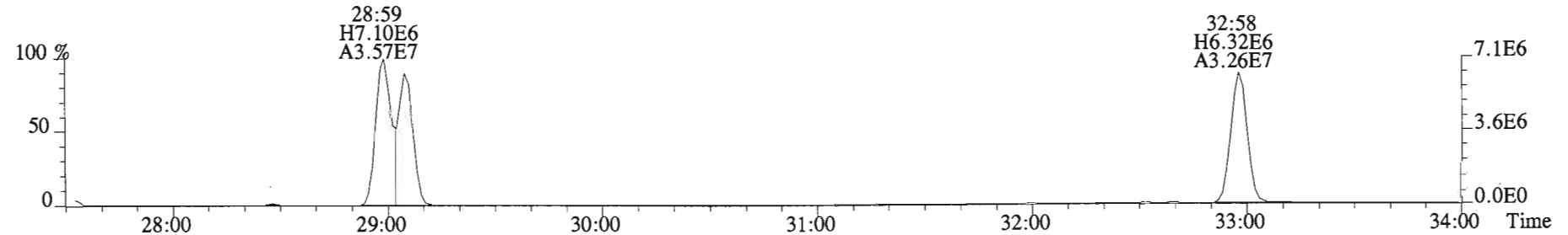
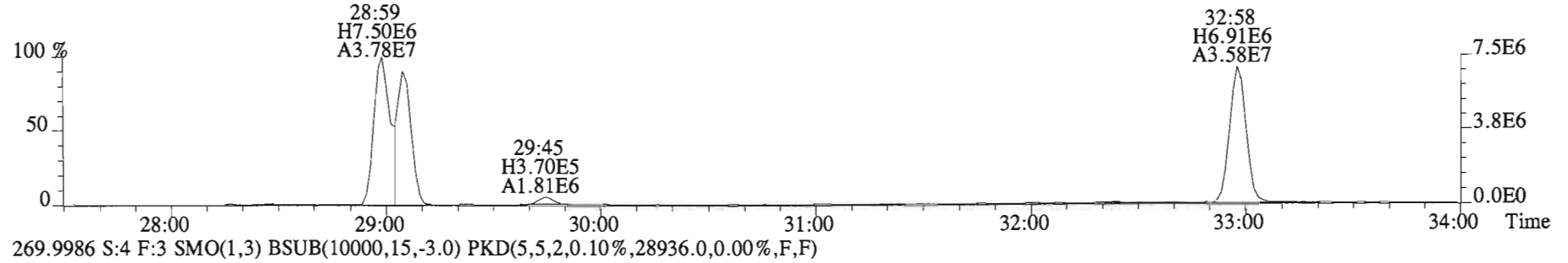
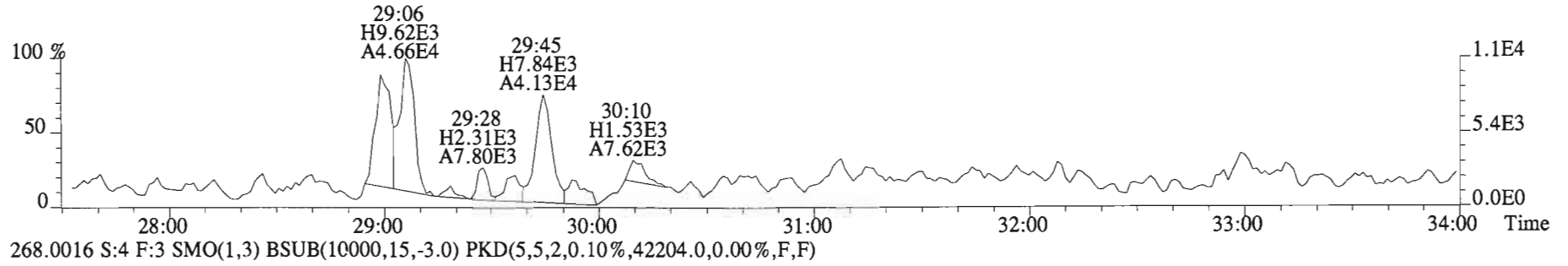
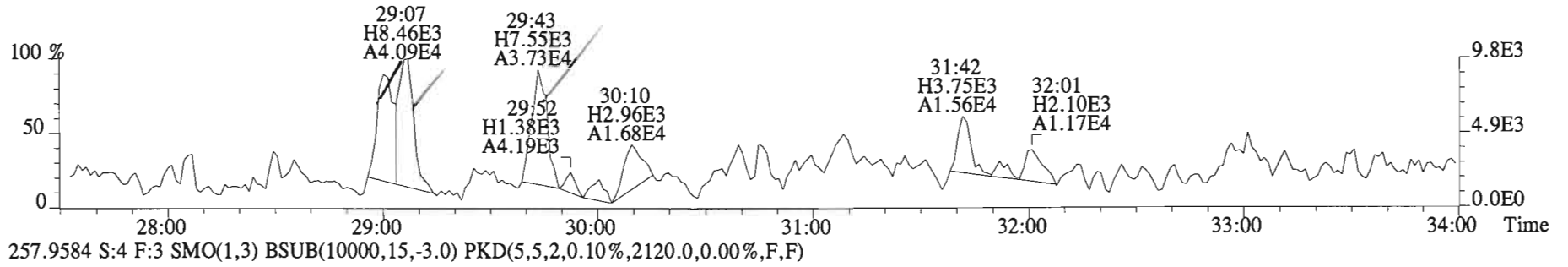
269.9986 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,57472.0,0.00%,F,F)



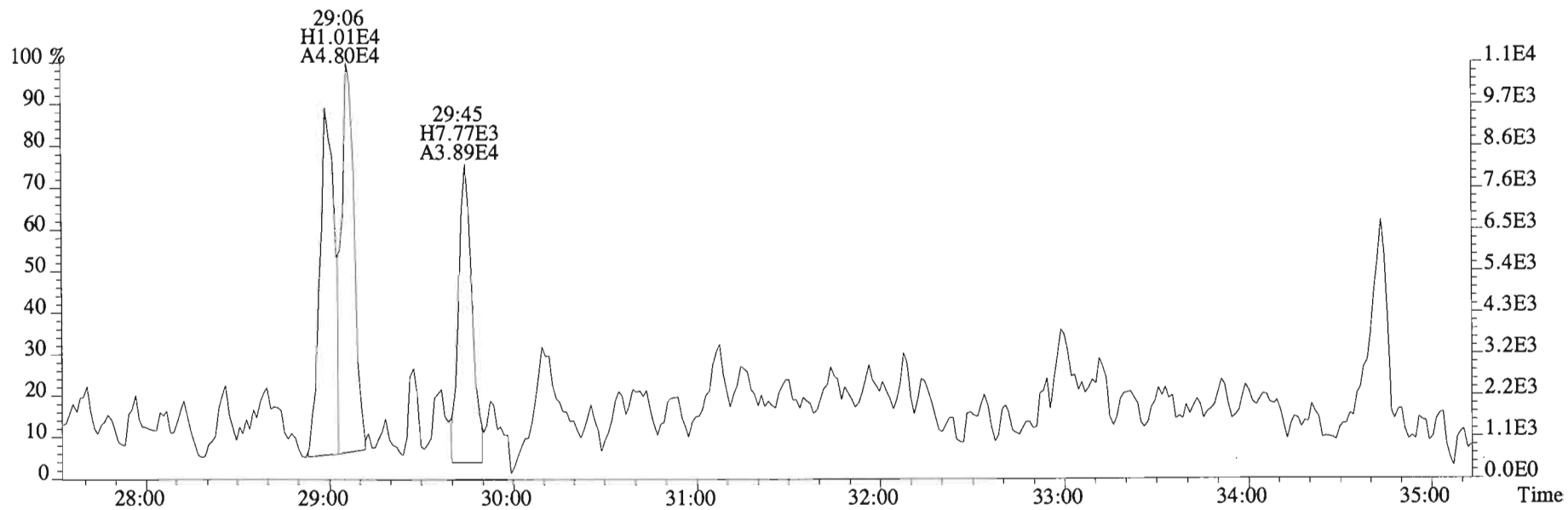
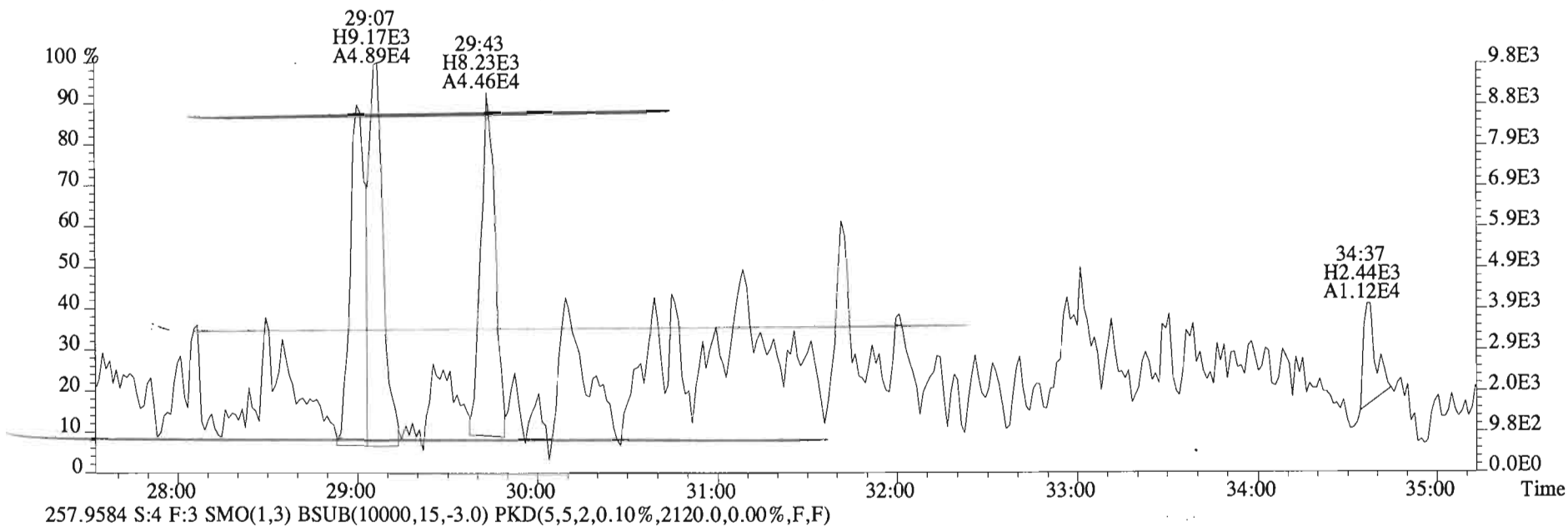
File:150226E1 #1-758 Acq:26-FEB-2015 14:58:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
255.9613 S:4 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2936.0,0.00%,F,F)



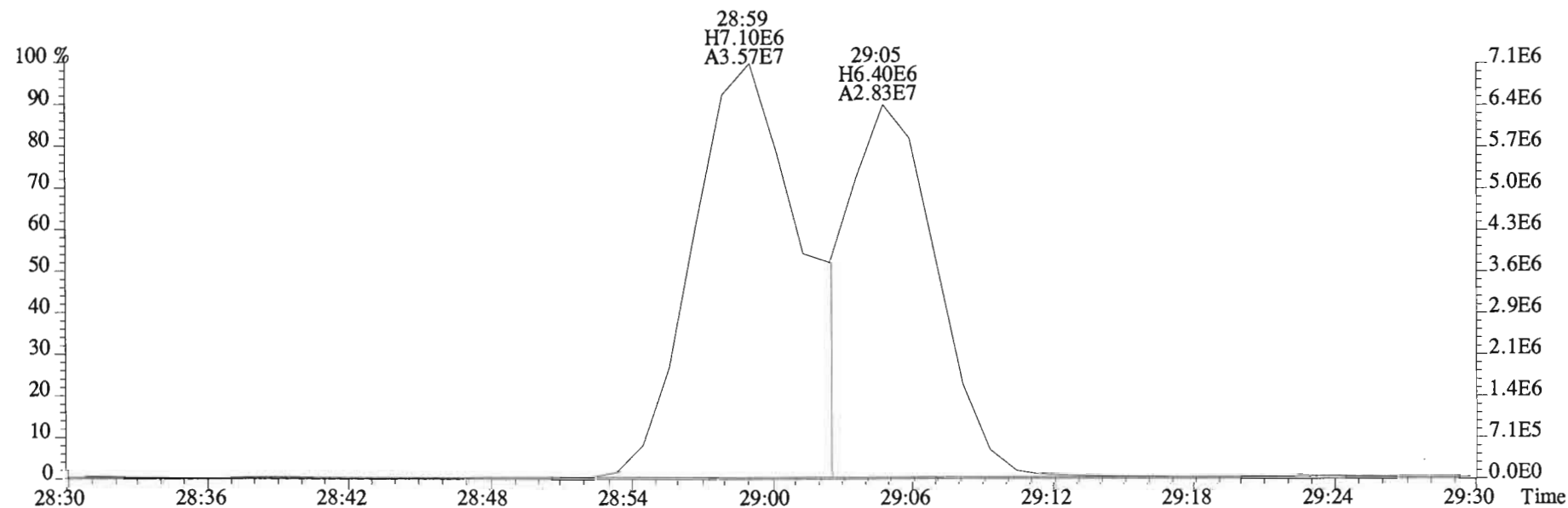
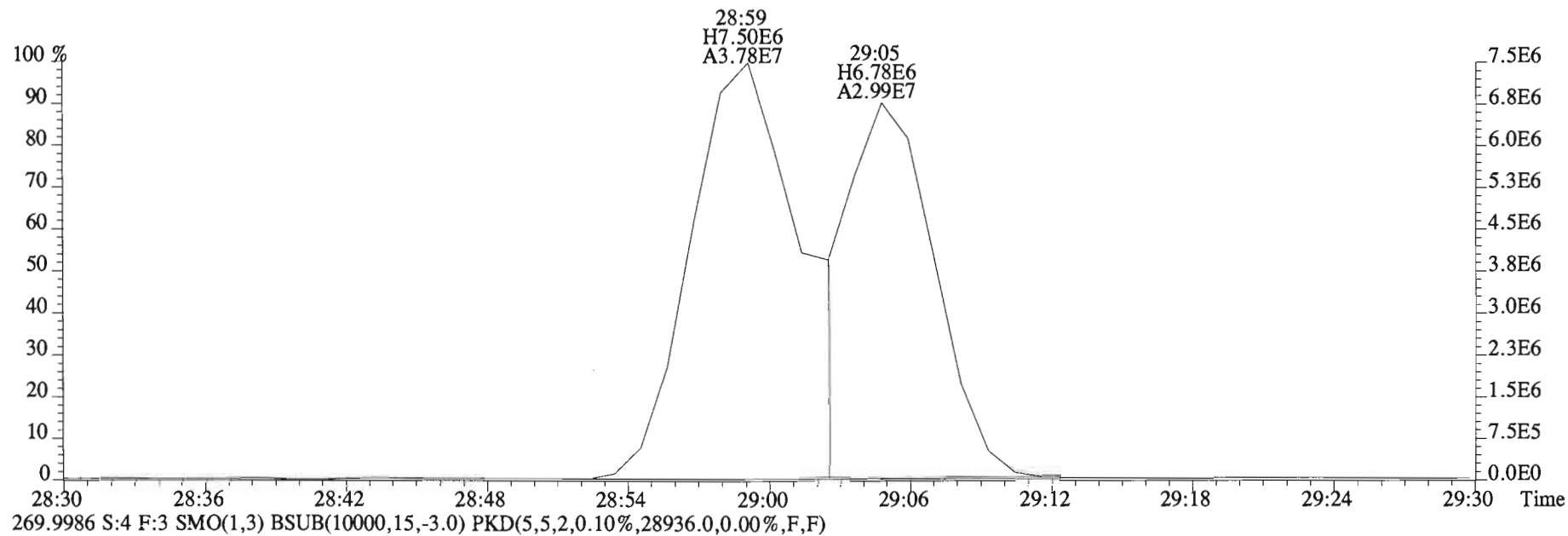
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2564.0,0.00%,F,F)



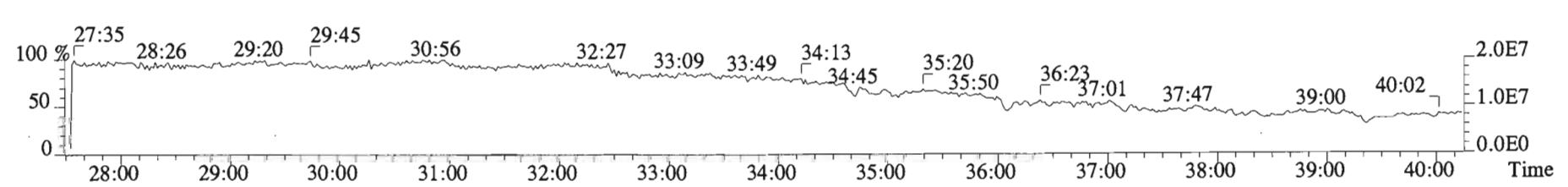
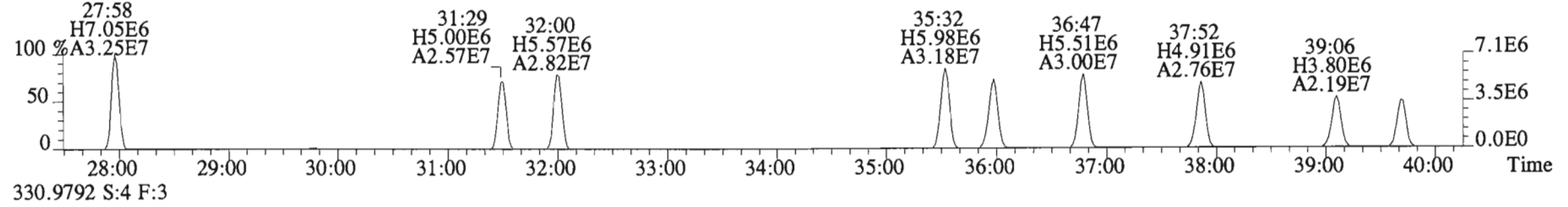
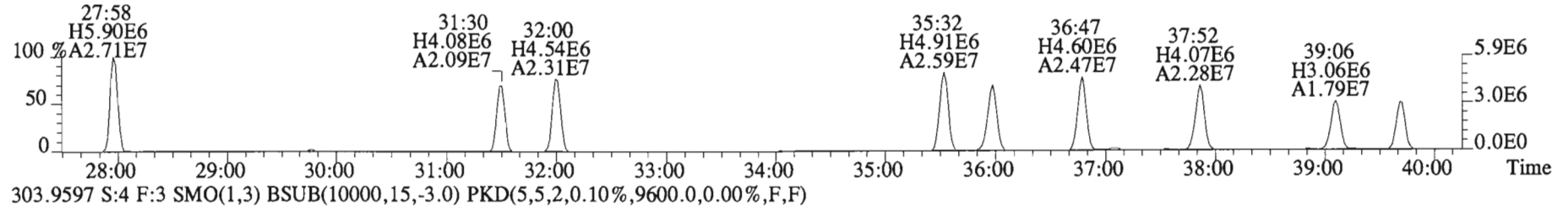
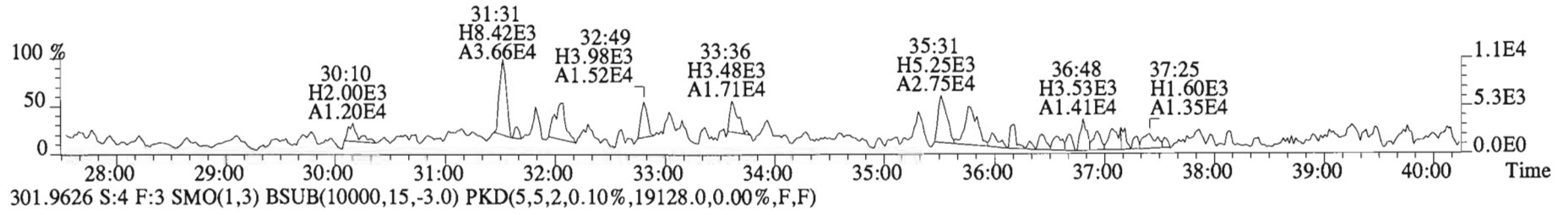
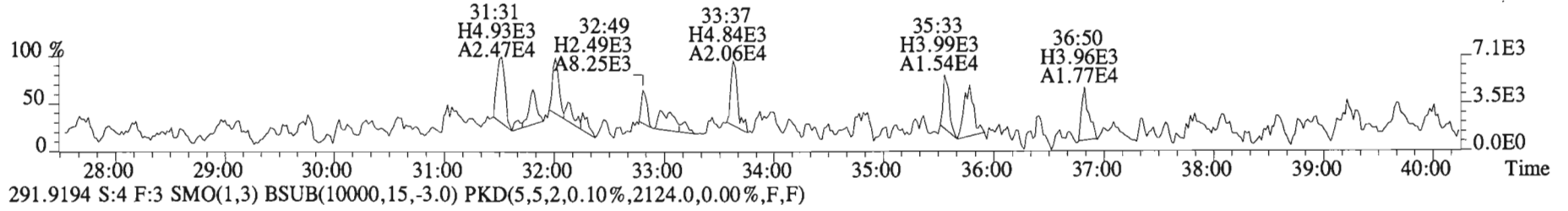
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255.9613 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2564.0,0.00%,F,F)



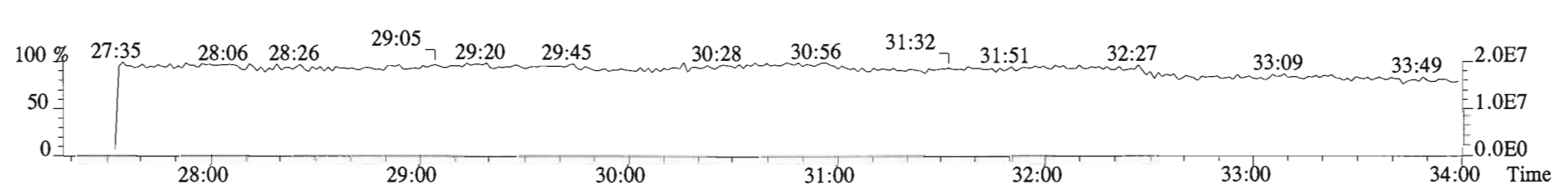
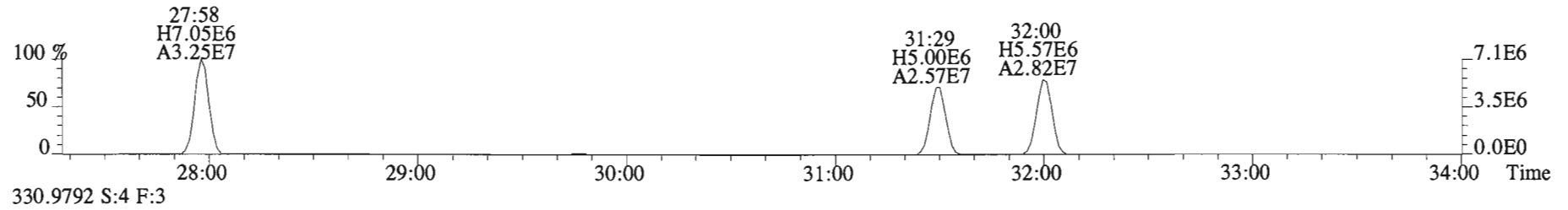
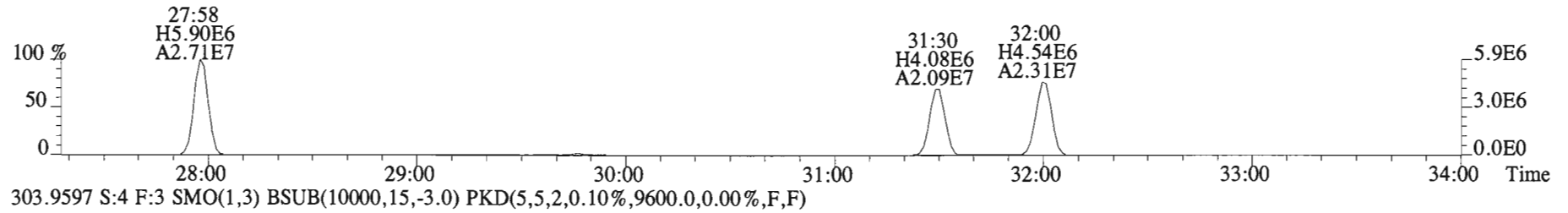
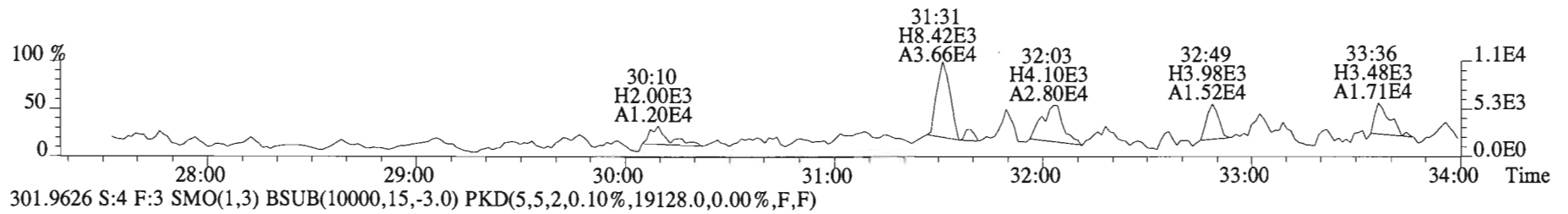
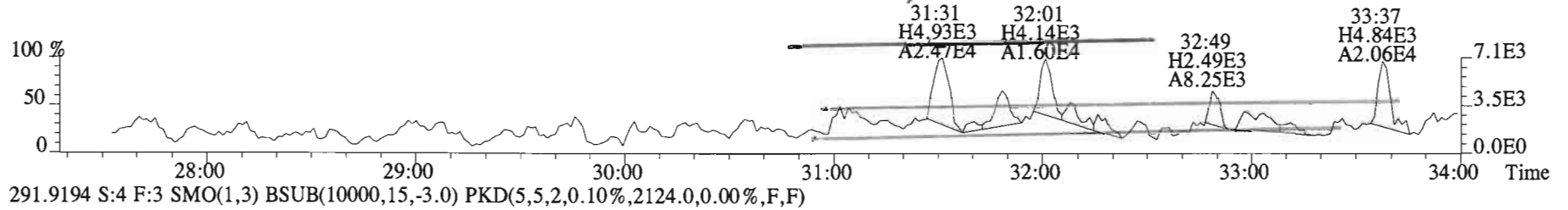
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Sample#4 File Text: Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
268.0016 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,42204.0,0.00%,F,F)



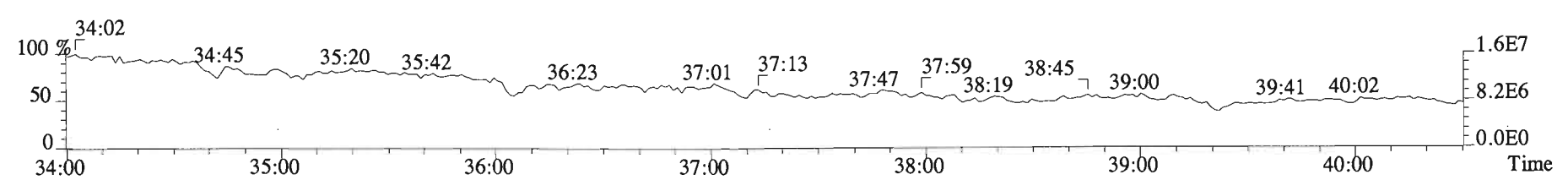
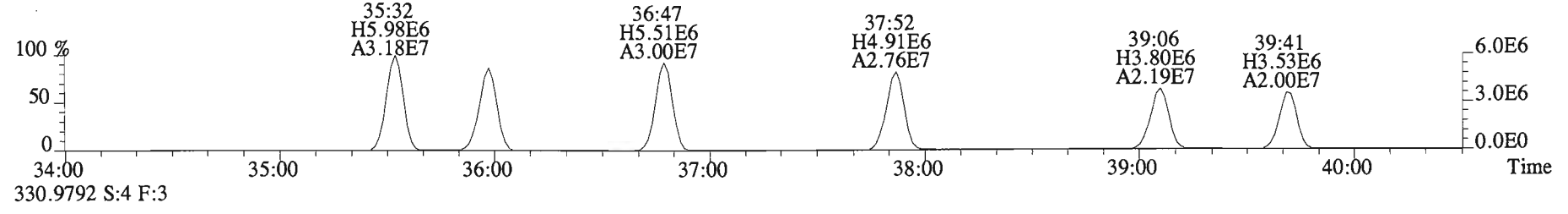
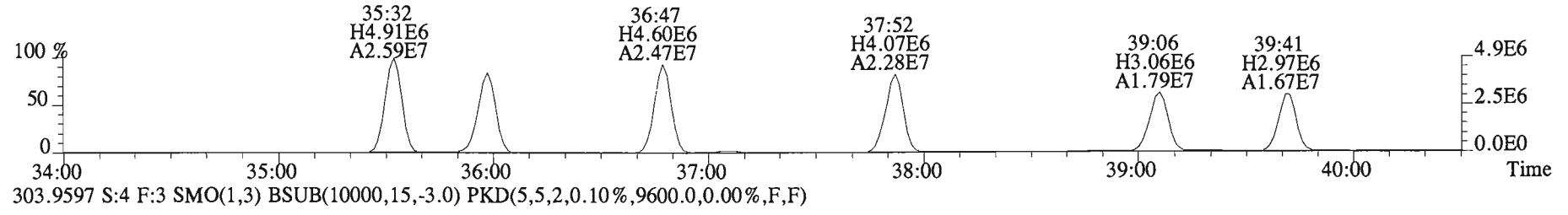
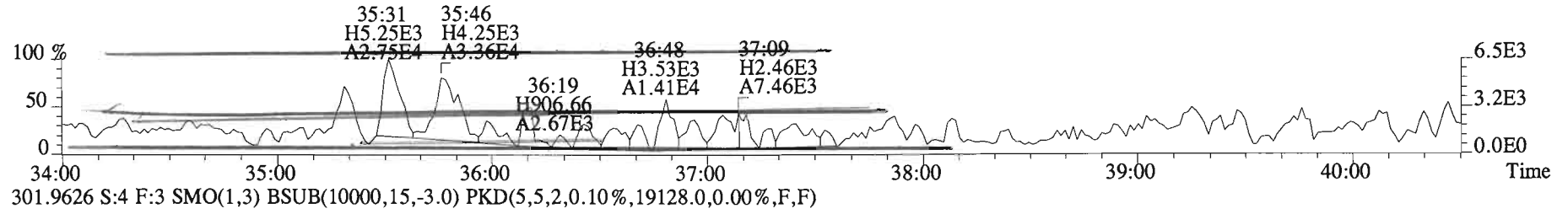
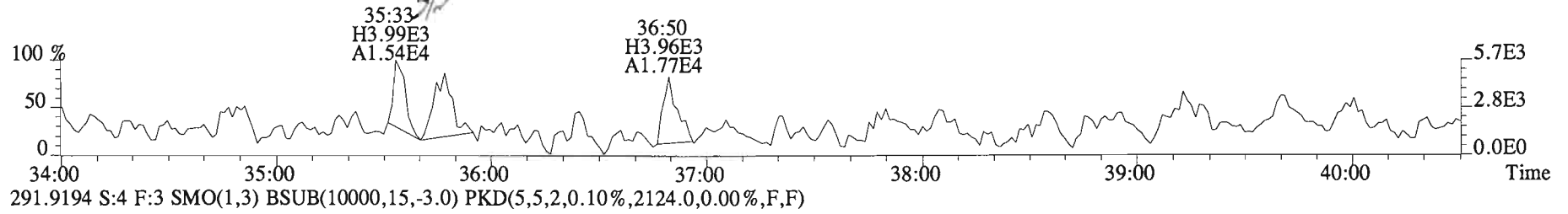
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2204.0,0.00%,F,F)



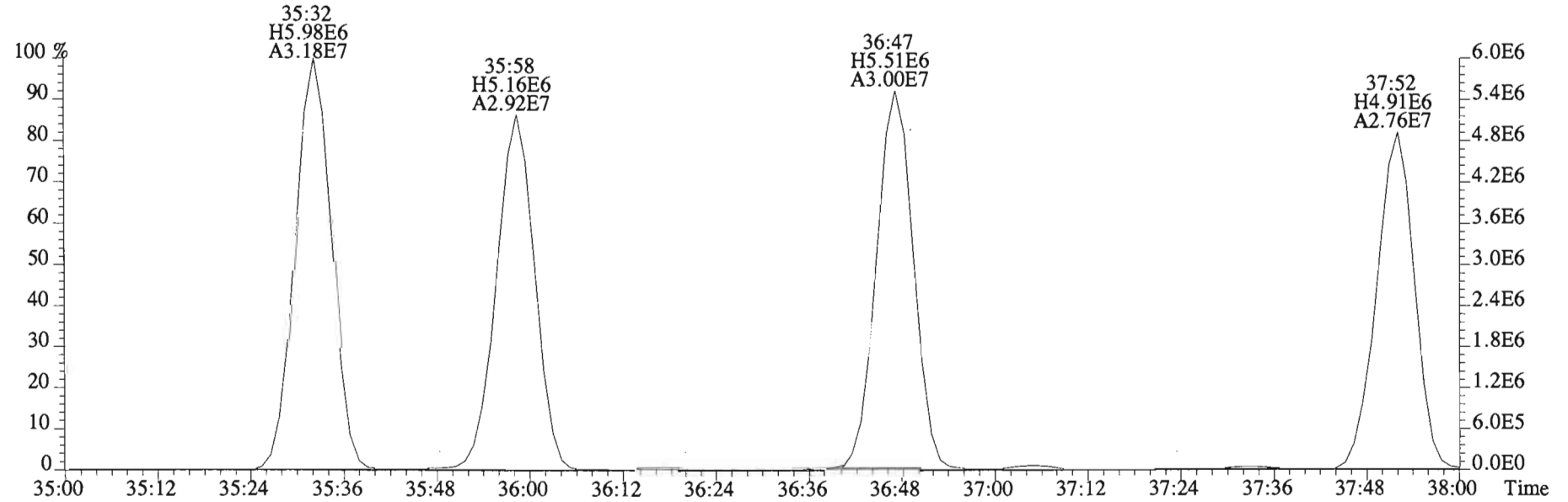
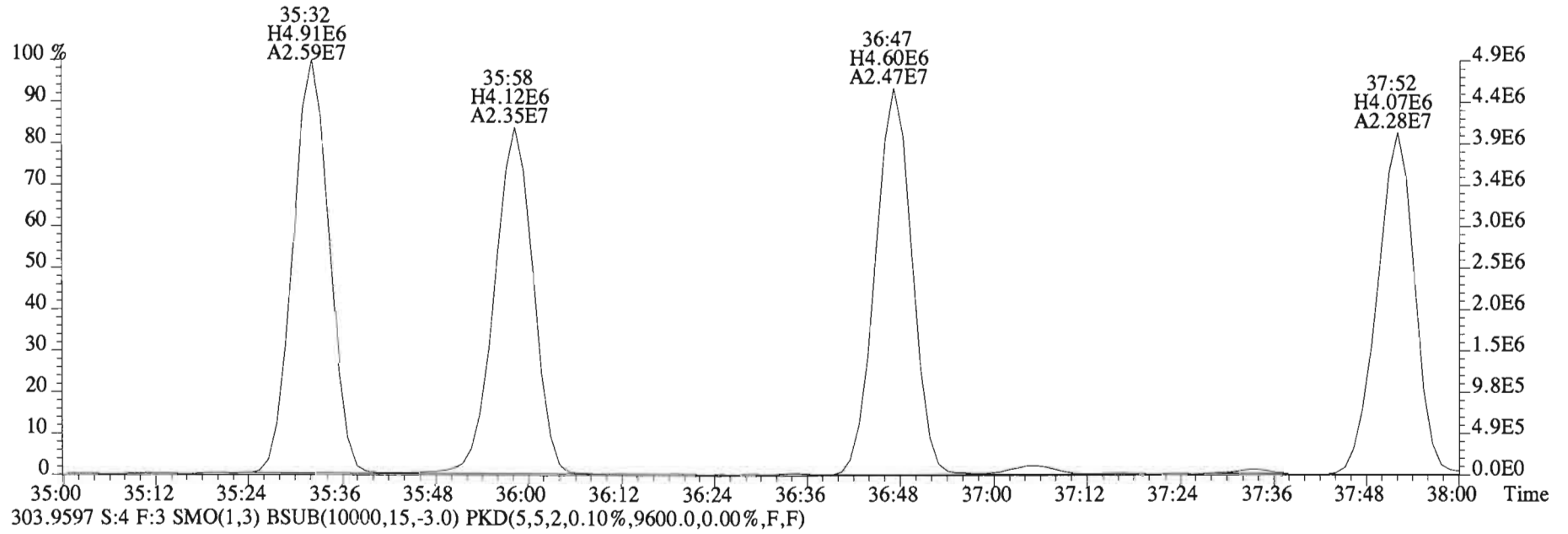
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2204.0,0.00%,F,F)



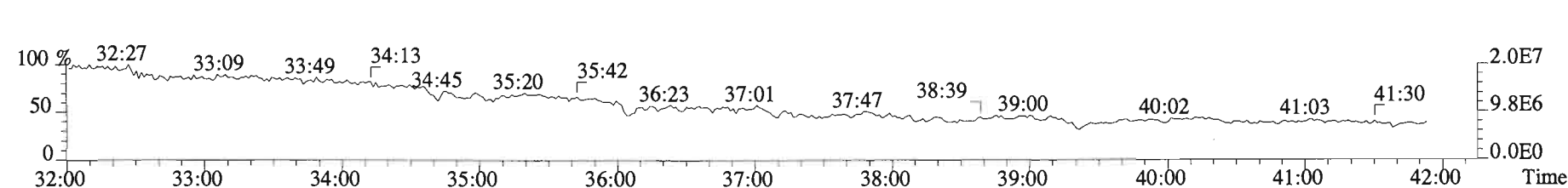
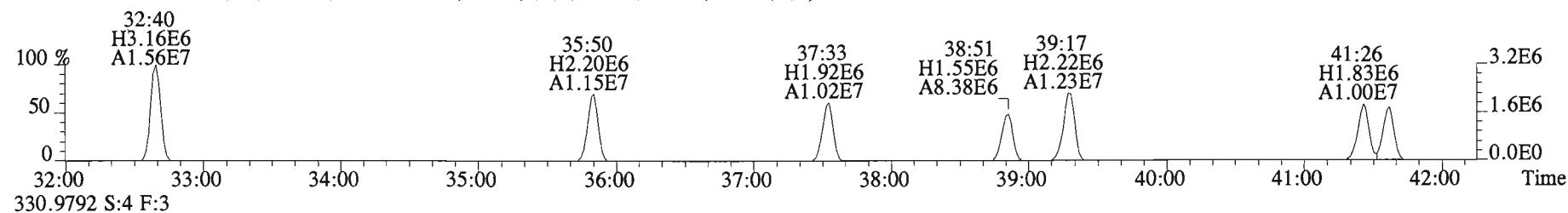
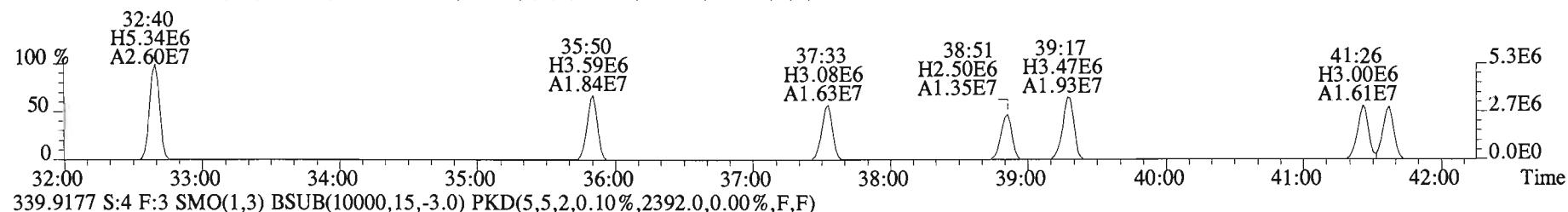
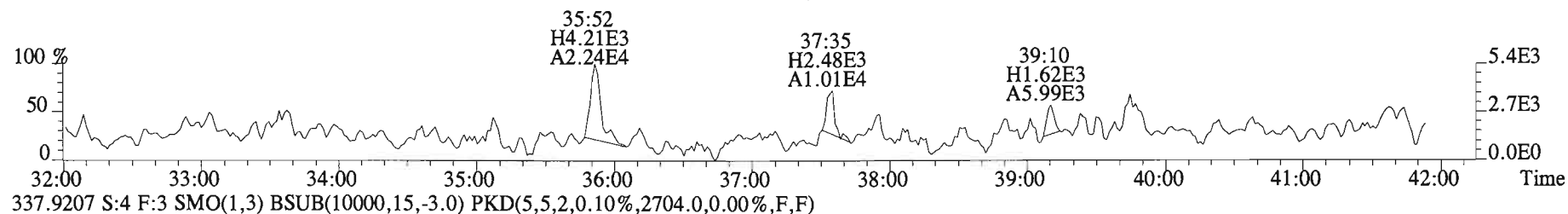
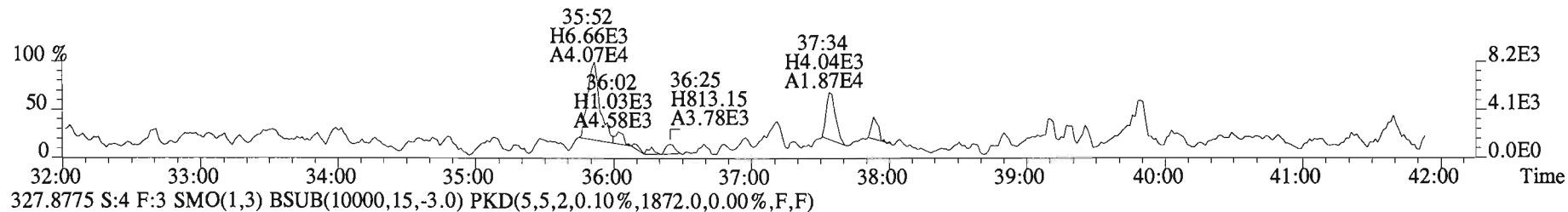
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 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
 289.9224 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2204.0,0.00%,F,F)



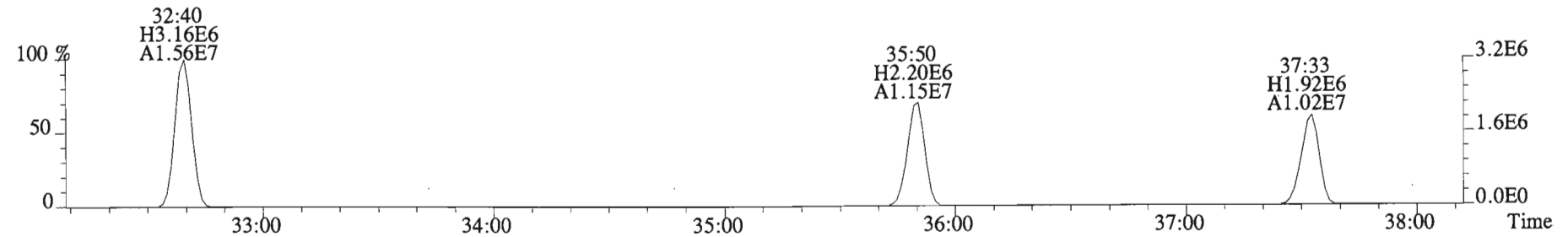
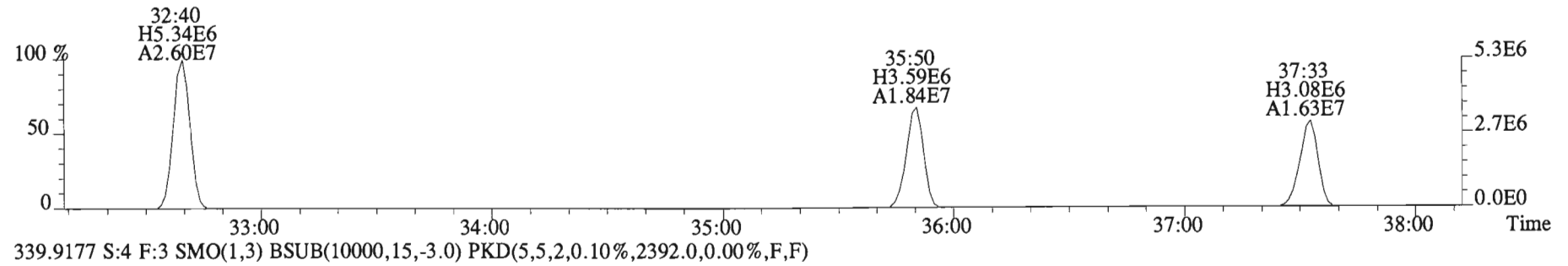
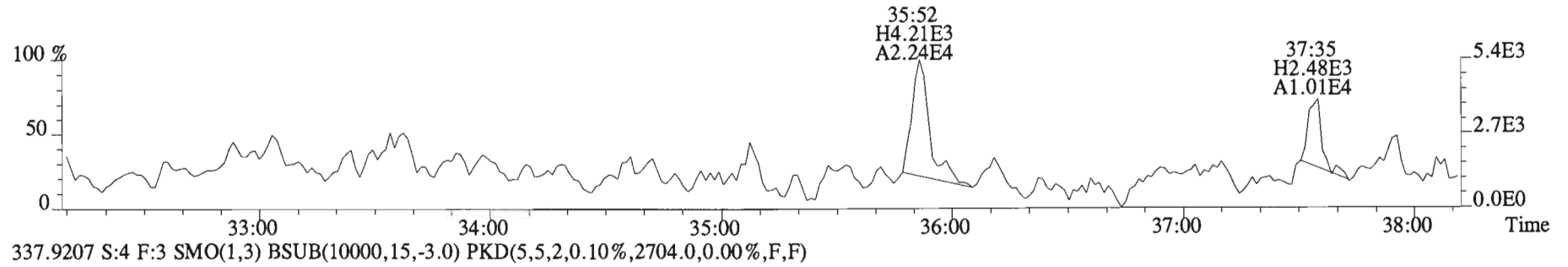
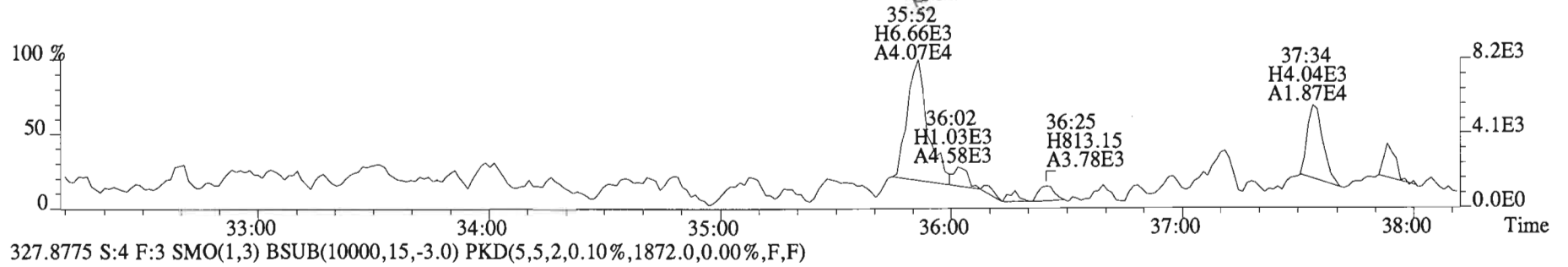
File:150226E1 #1-758 Acq:26-FEB-2015 14:58:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
301.9626 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,19128.0,0.00%,F,F)



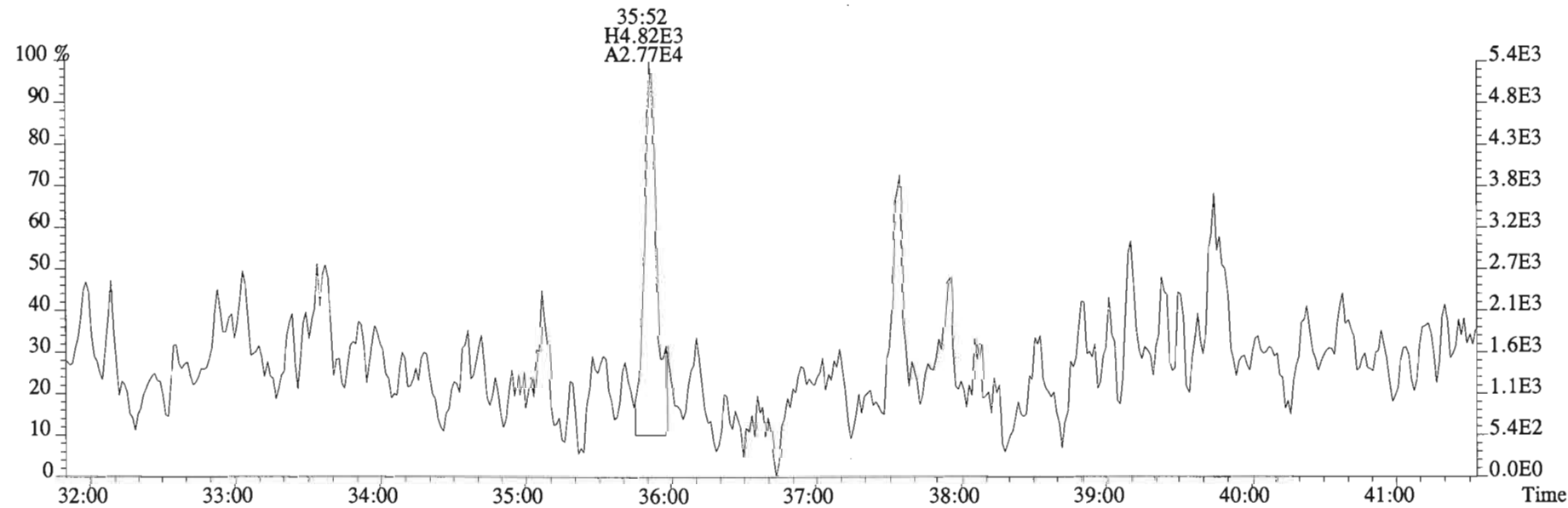
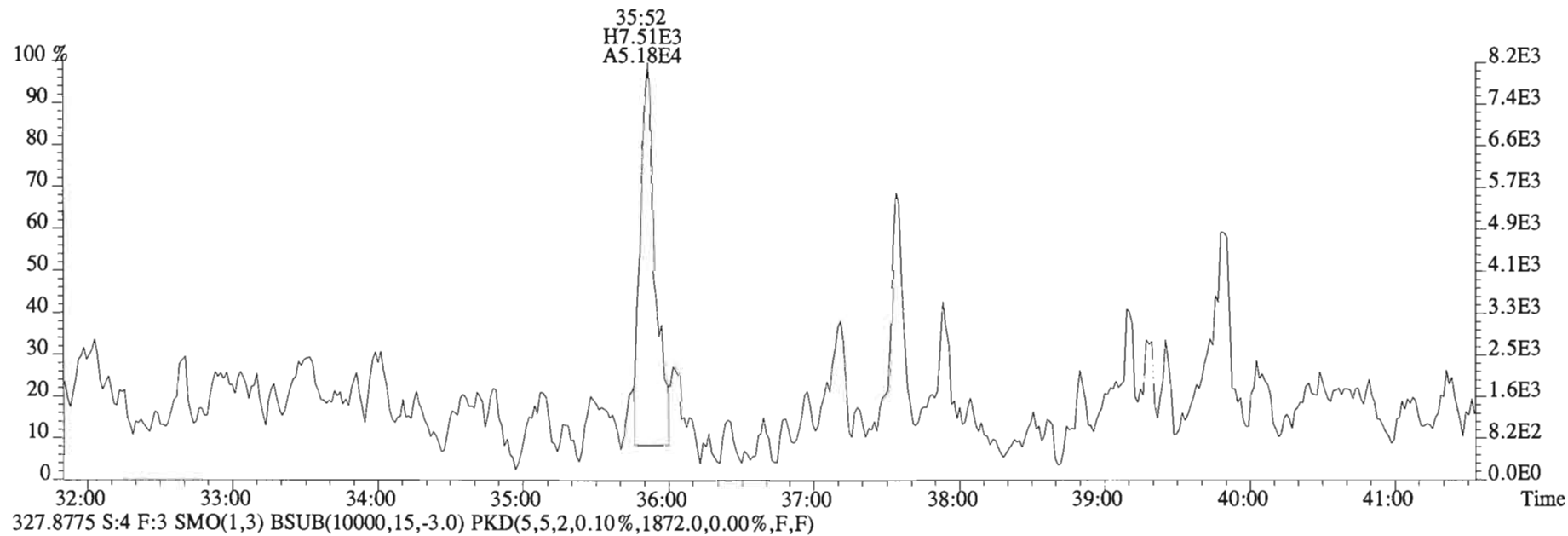
File:150226E1 #1-758 Acq:26-FEB-2015 14:58:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1812.0,0.00%,F,F)



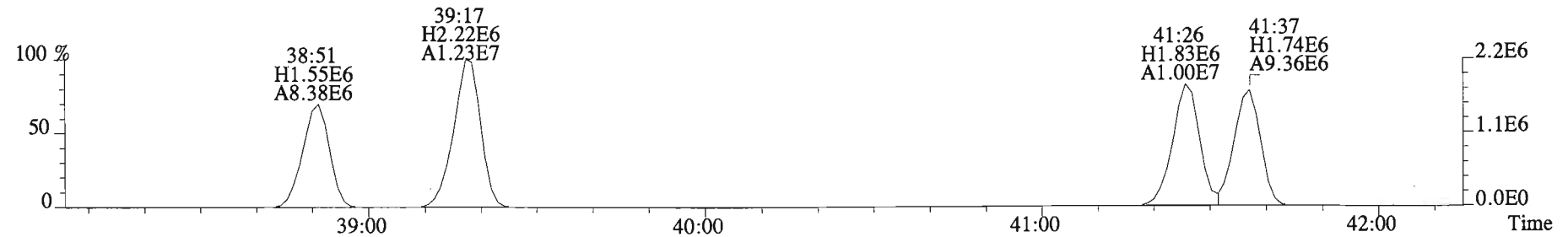
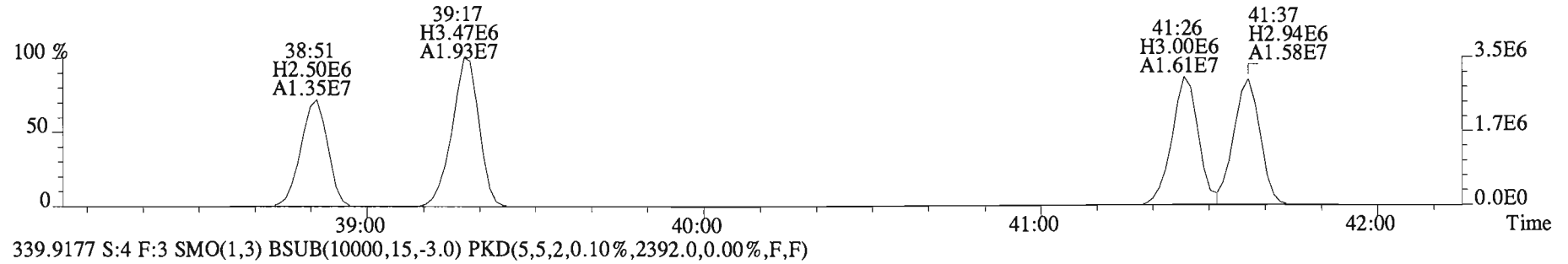
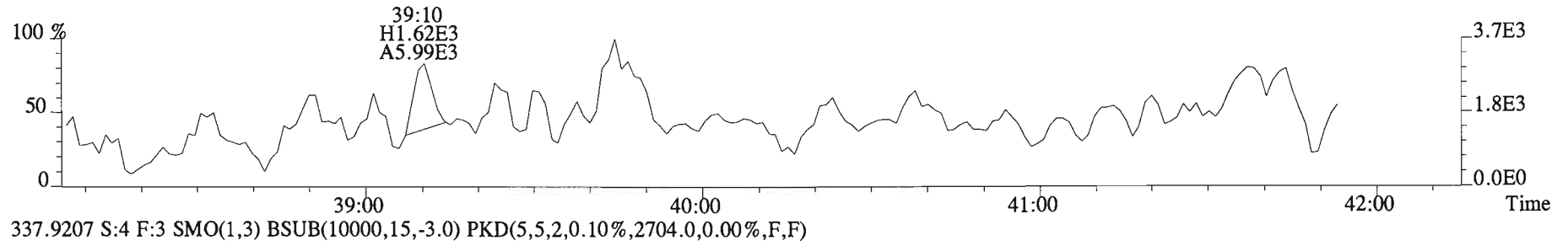
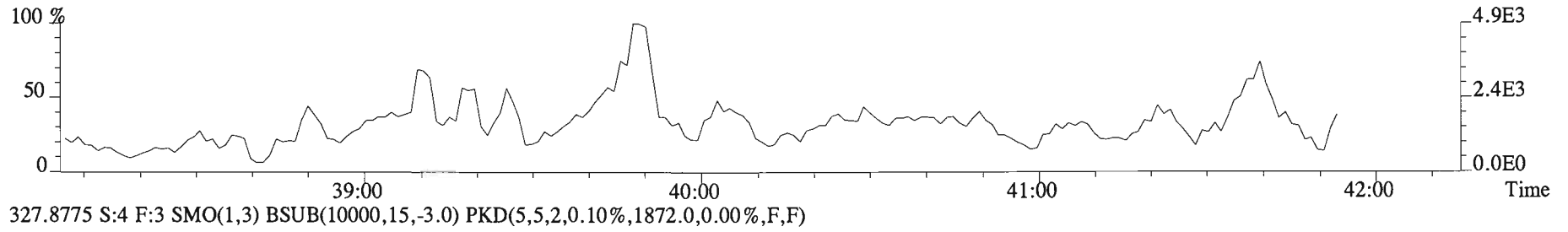
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1812.0,0.00%,F,F)



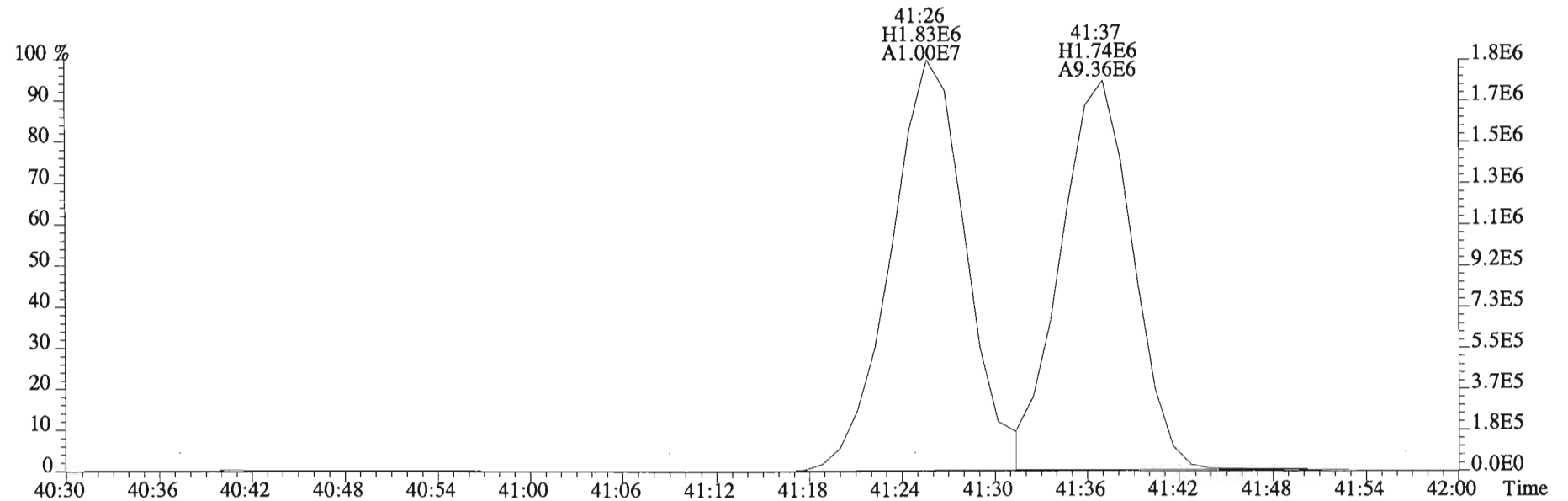
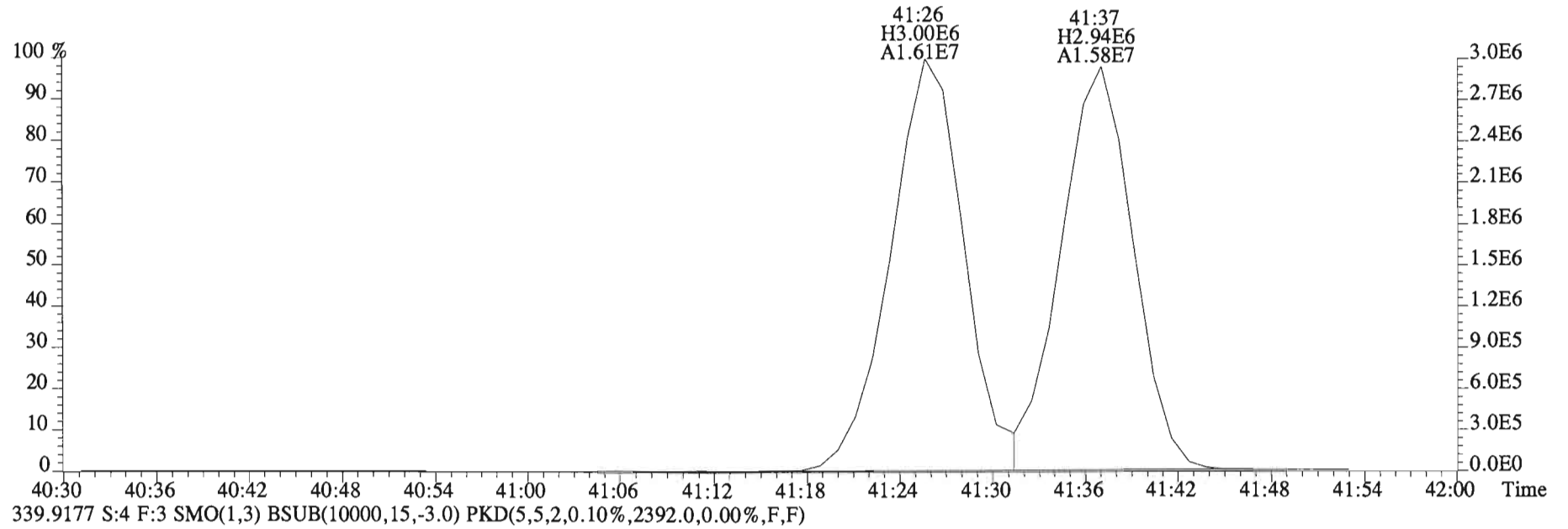
File:150226E1 #1-758 Acq:26-FEB-2015 14:58:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1812.0,0.00%,F,F)



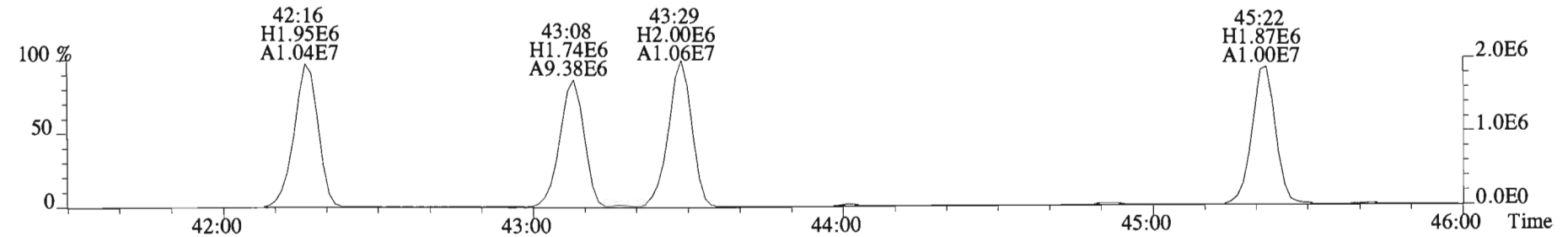
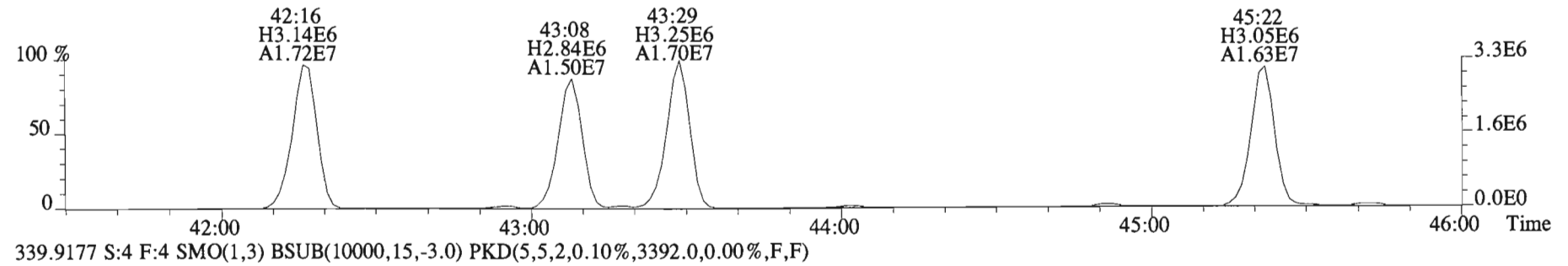
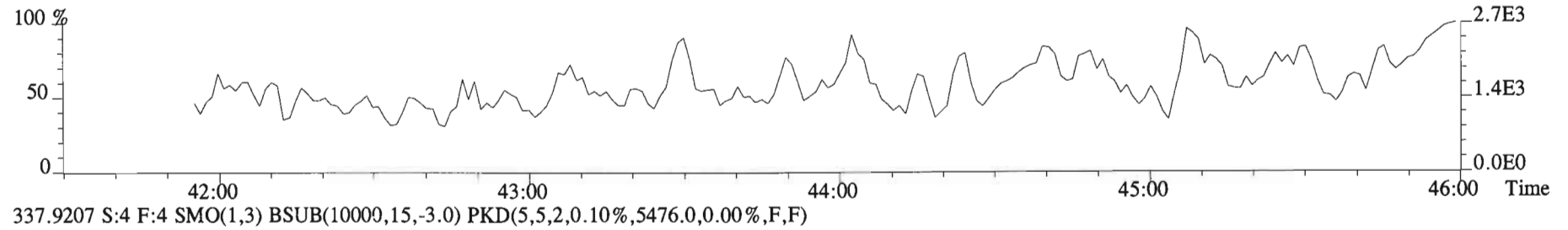
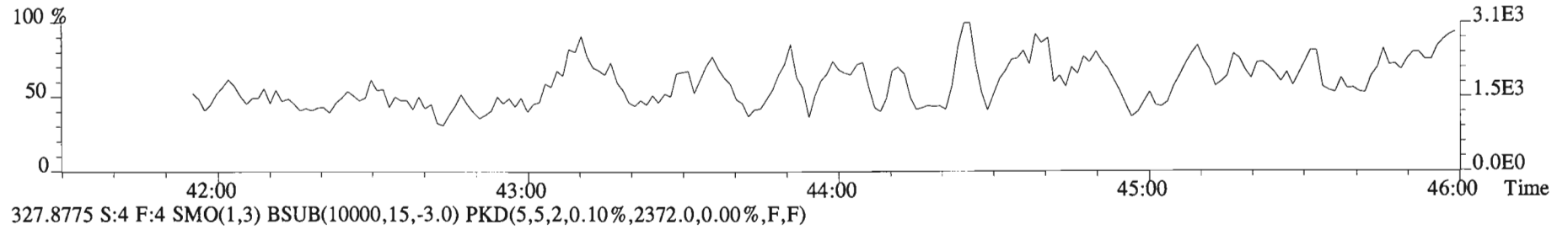
File:150226E1 #1-758 Acq:26-FEB-2015 14:58:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1812.0,0.00%,F,F)



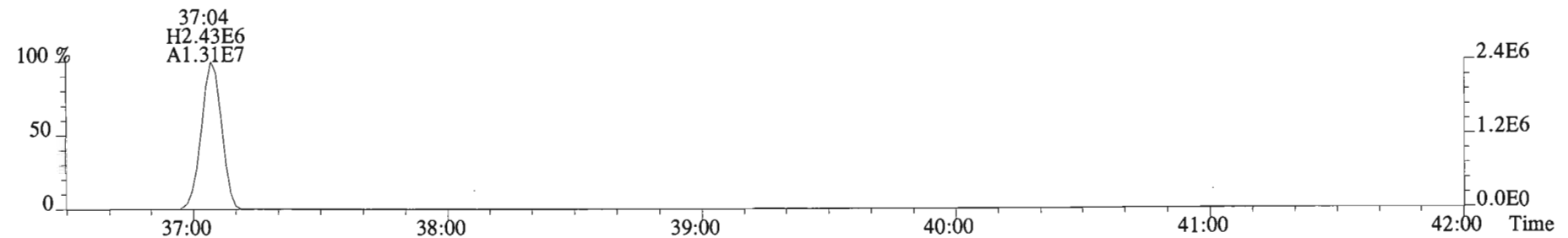
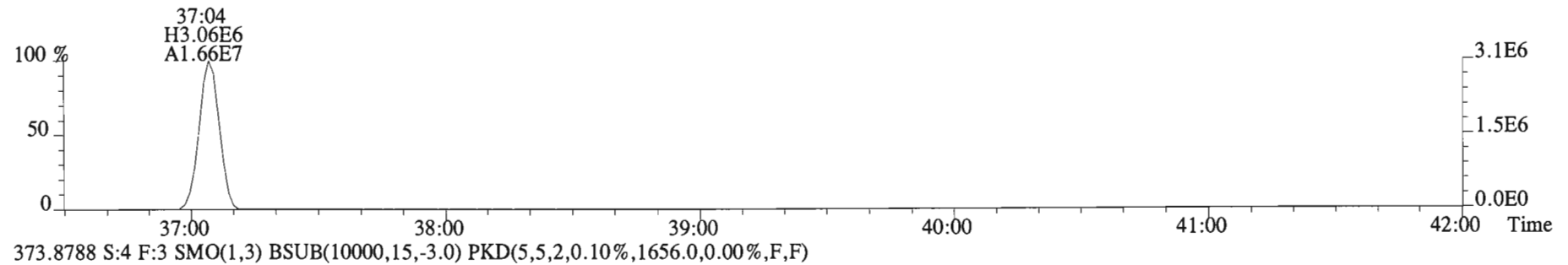
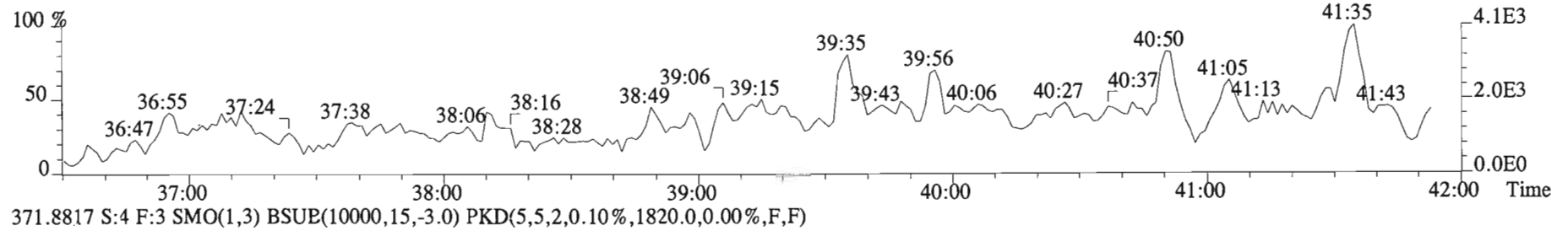
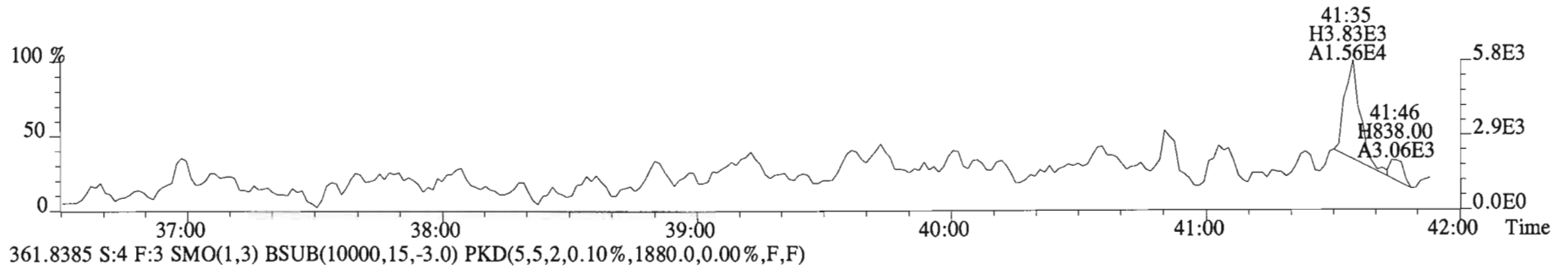
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
337.9207 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2704.0,0.00%,F,F)



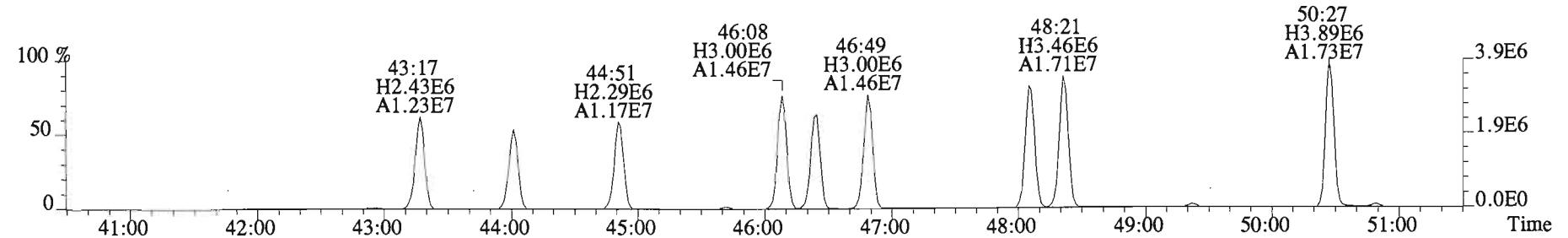
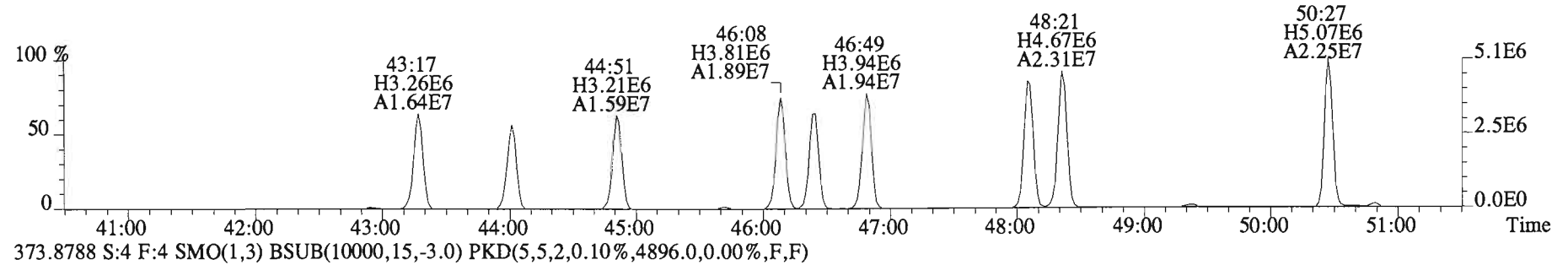
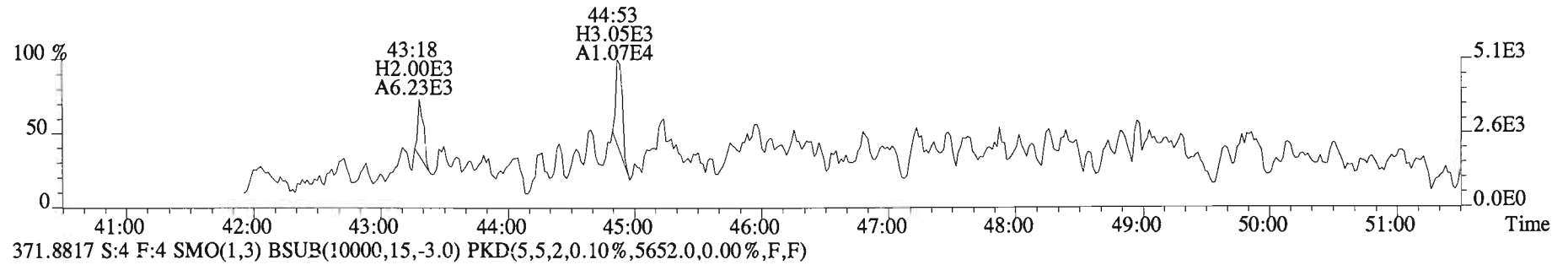
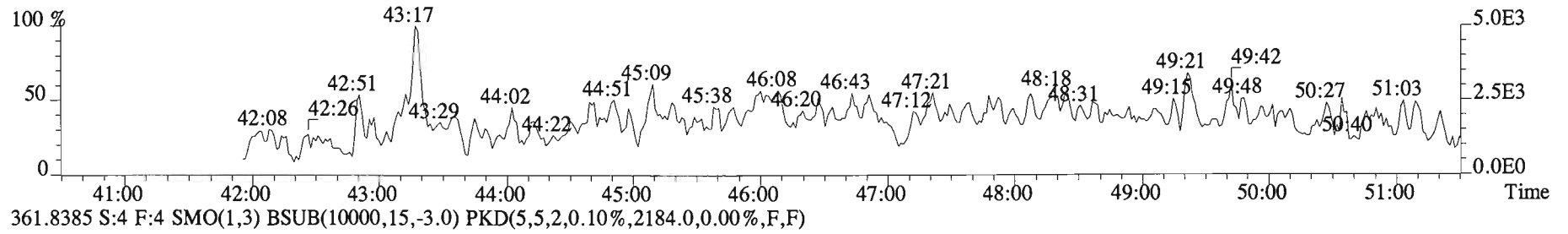
File:150226E1 #1-555 Acq:26-FEB-2015 14:58:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
325.8804 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2652.0,0.00%,F,F)



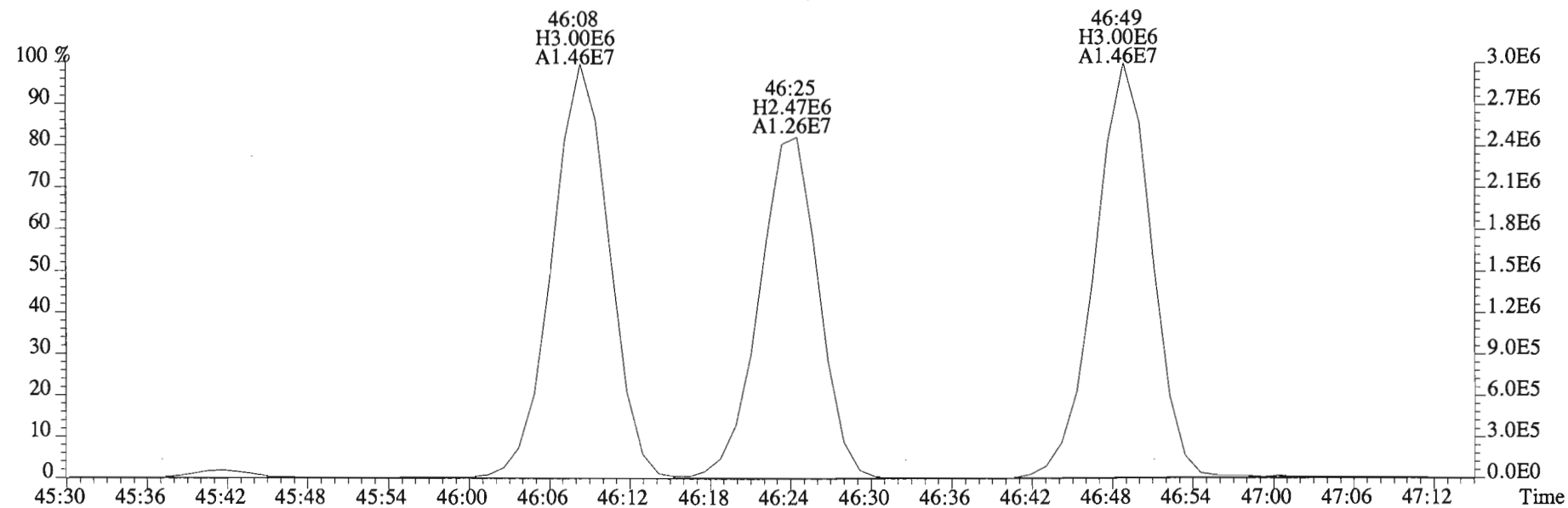
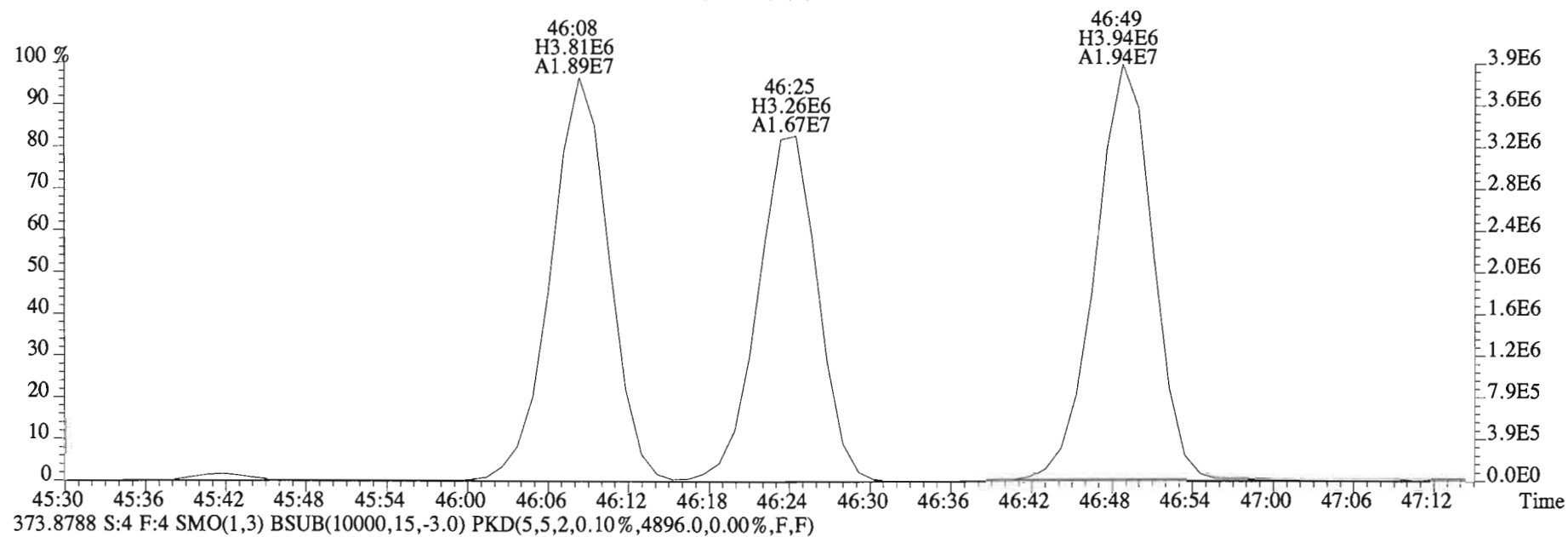
File:150226E1 #1-758 Acq:26-FEB-2015 14:58:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
359.8415 S:4 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1832.0,0.00%,F,F)



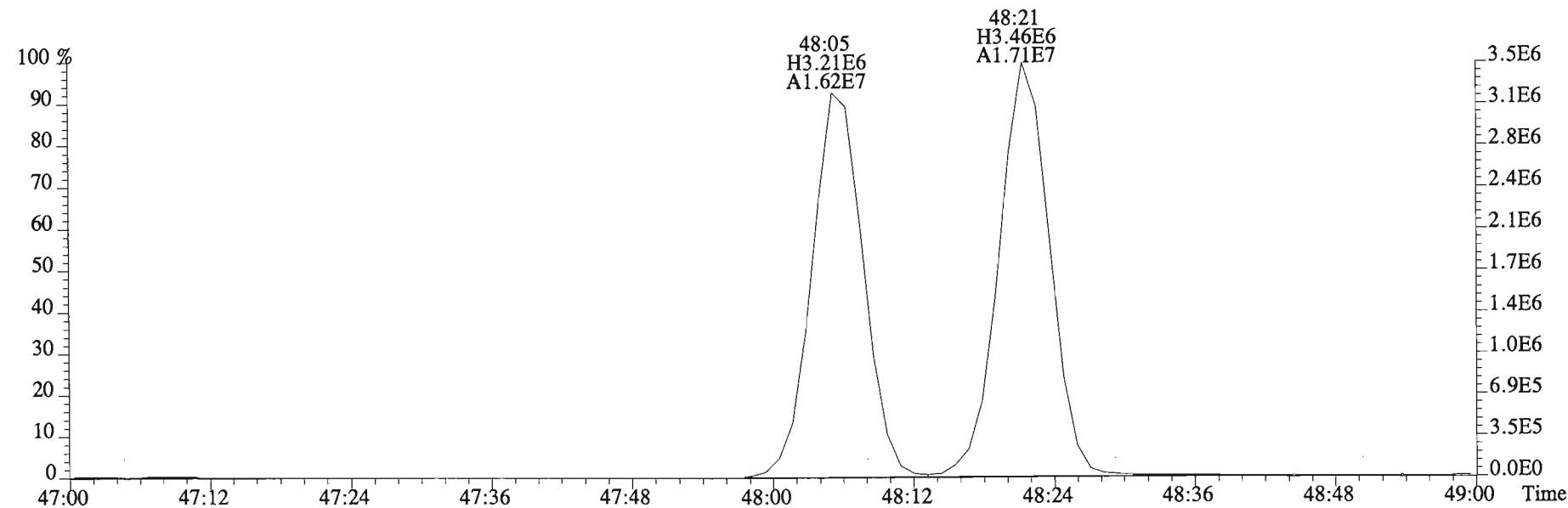
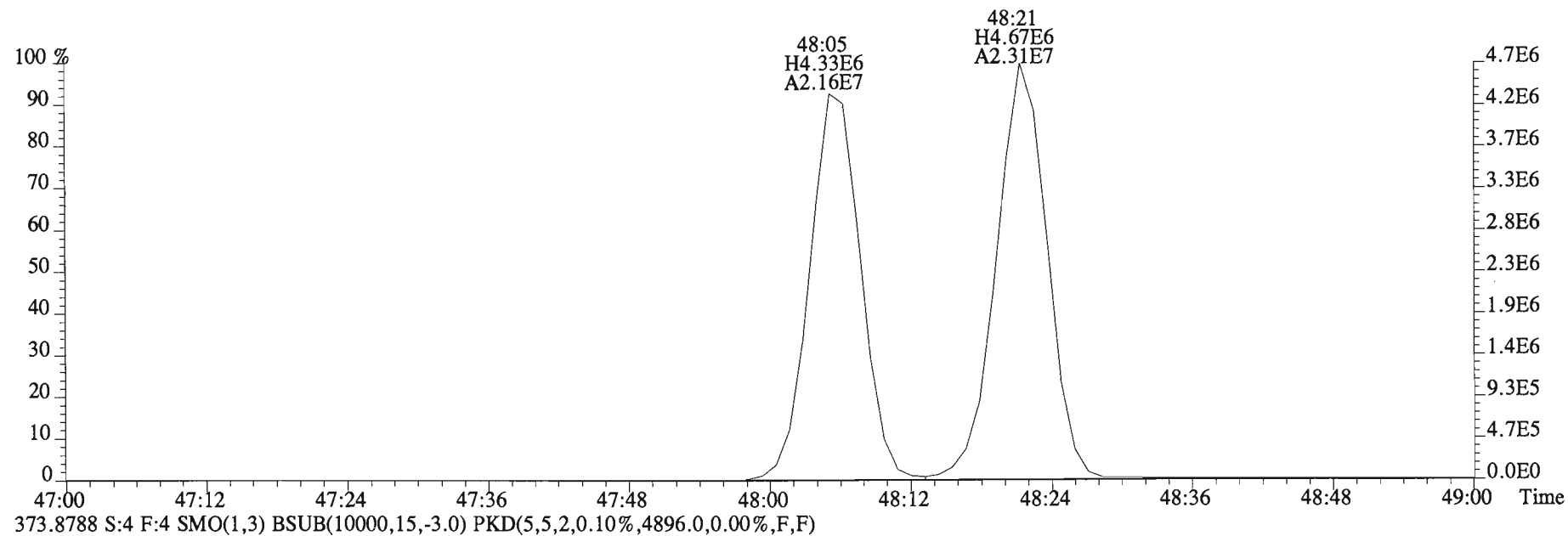
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 Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
 359.8415 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2348.0,0.00%,F,F)



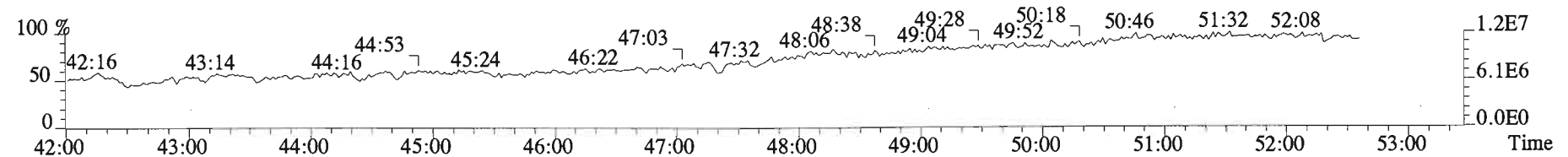
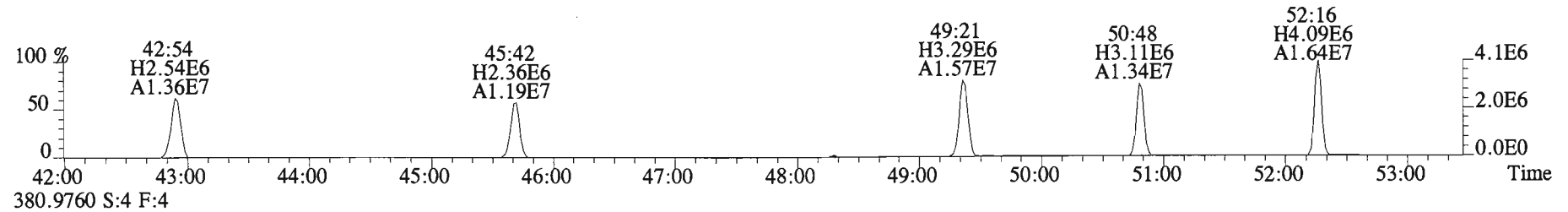
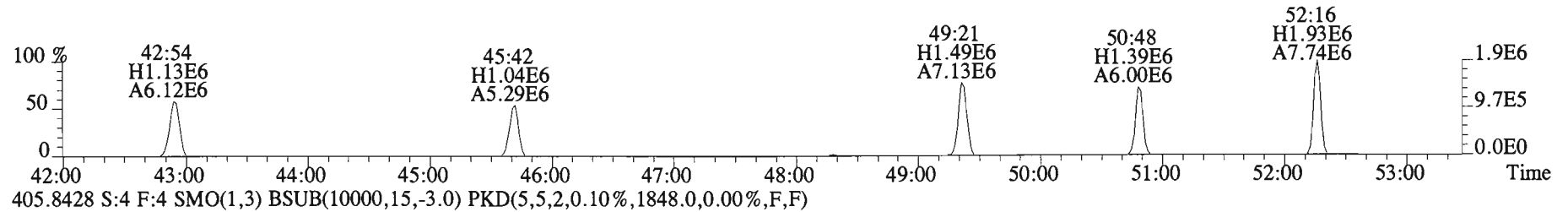
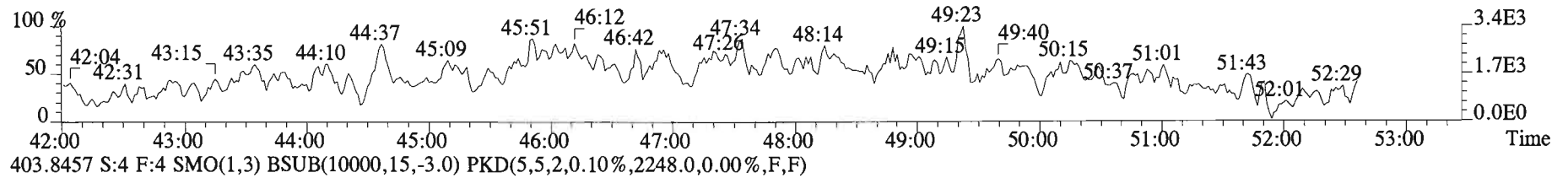
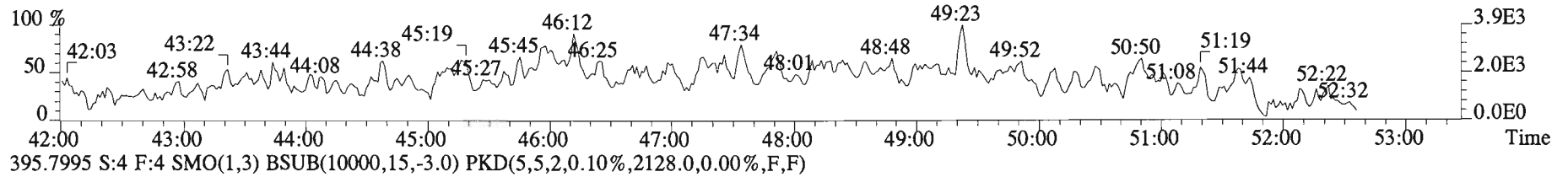
File:150226E1 #1-555 Acq:26-FEB-2015 14:58:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5652.0,0.00%,F,F)



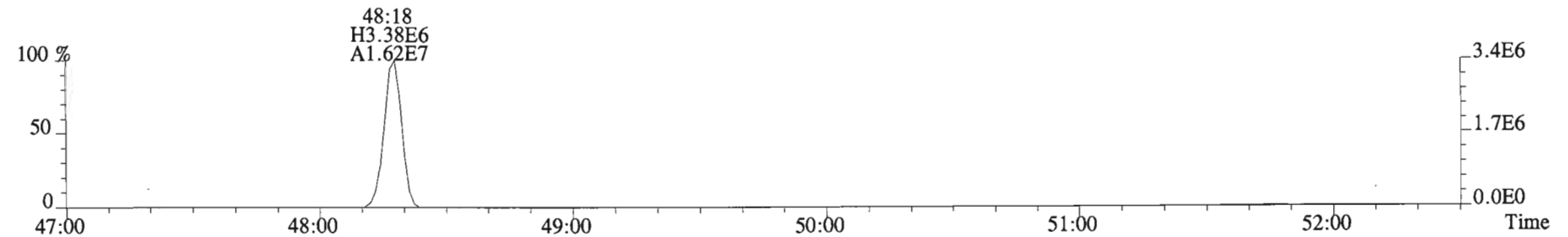
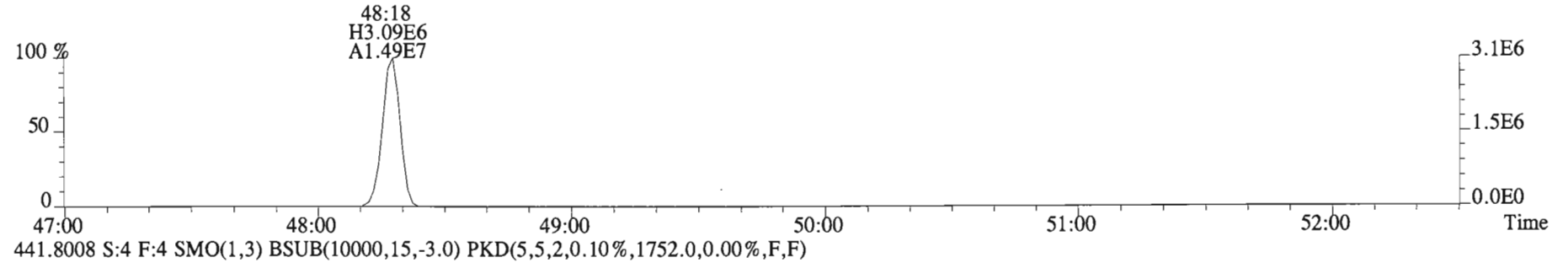
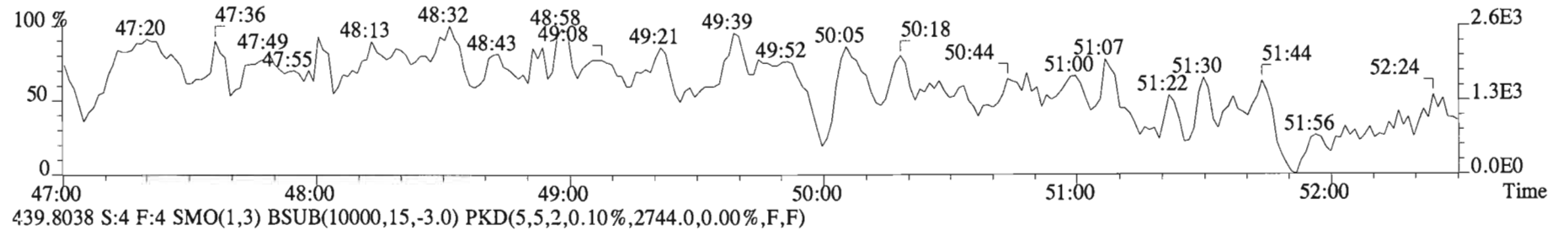
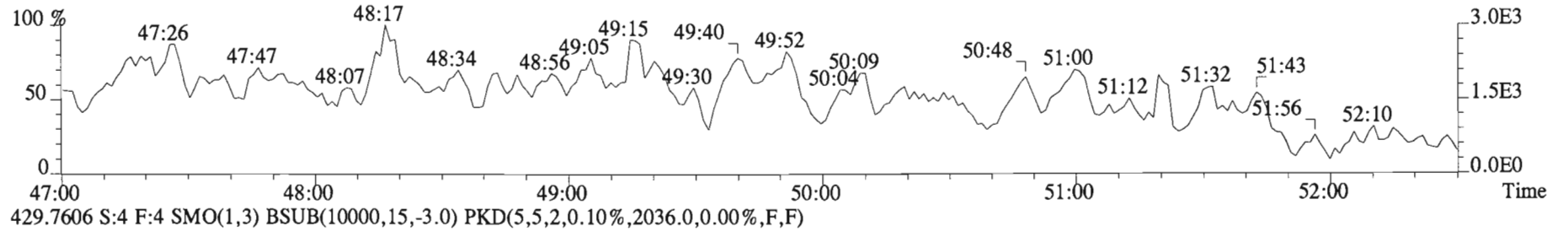
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
371.8817 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,5652.0,0.00%,F,F)



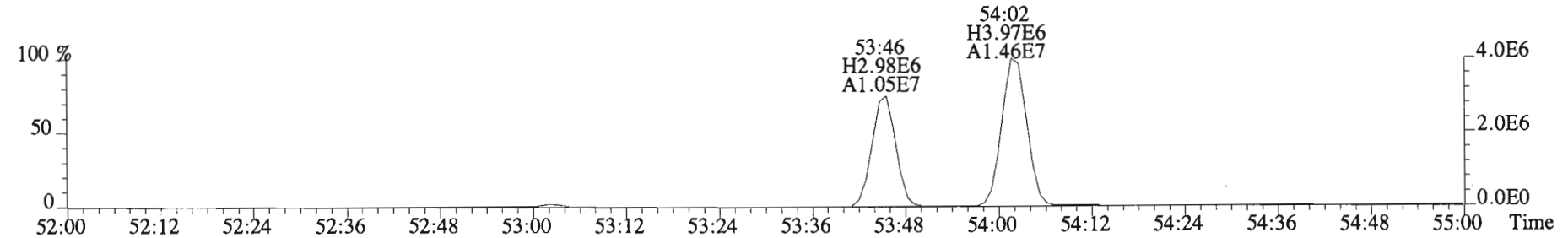
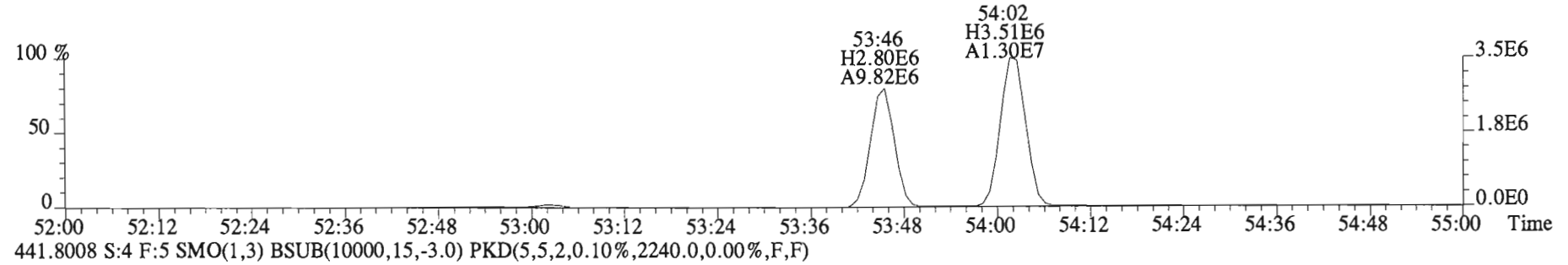
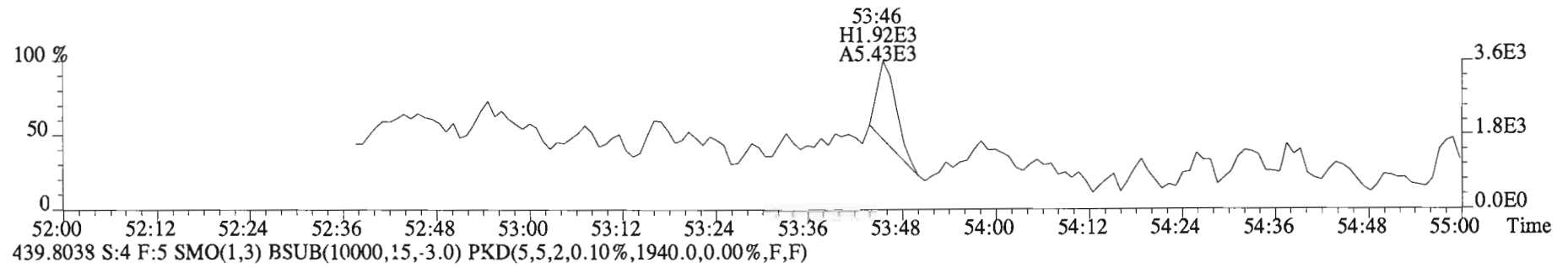
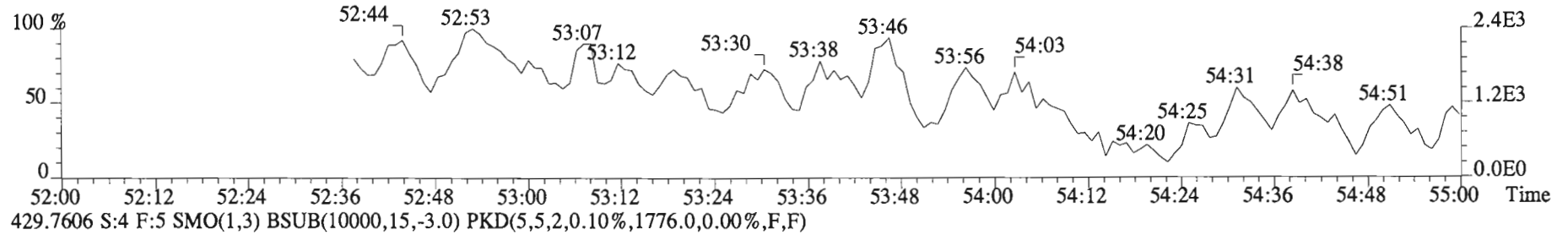
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
393.8025 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2140.0,0.00%,F,F)



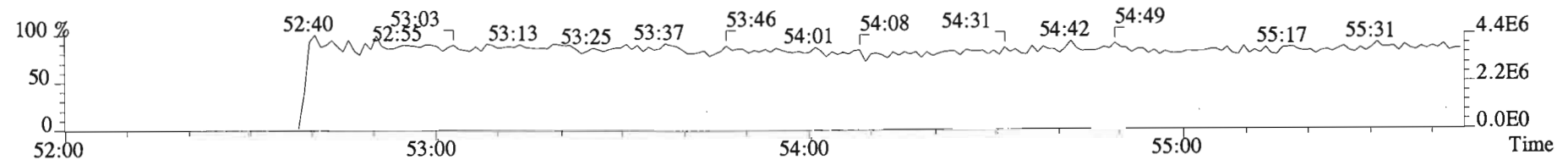
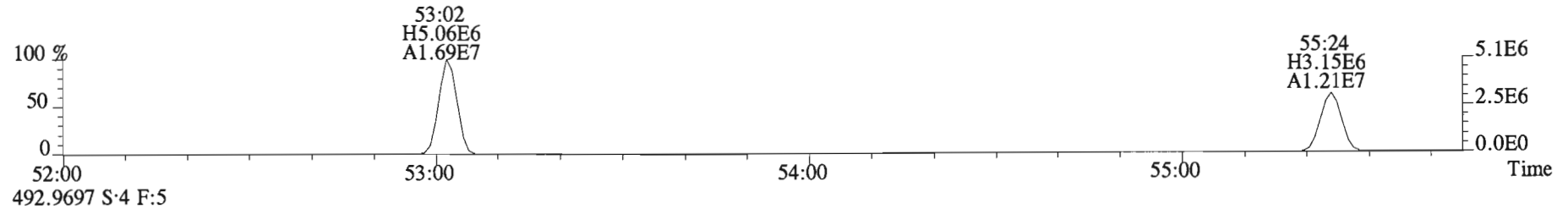
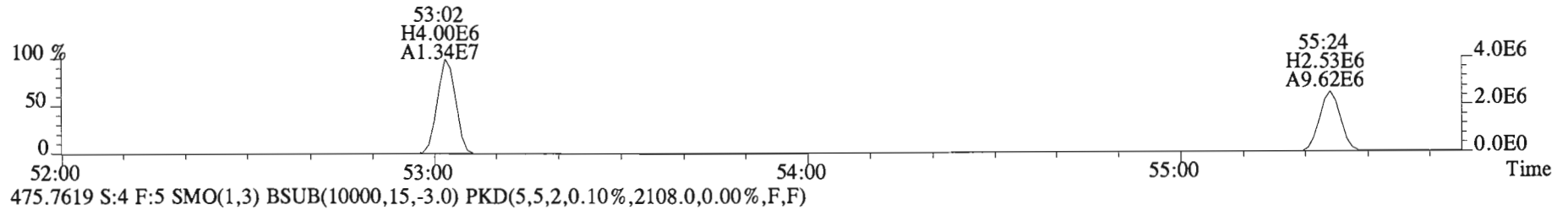
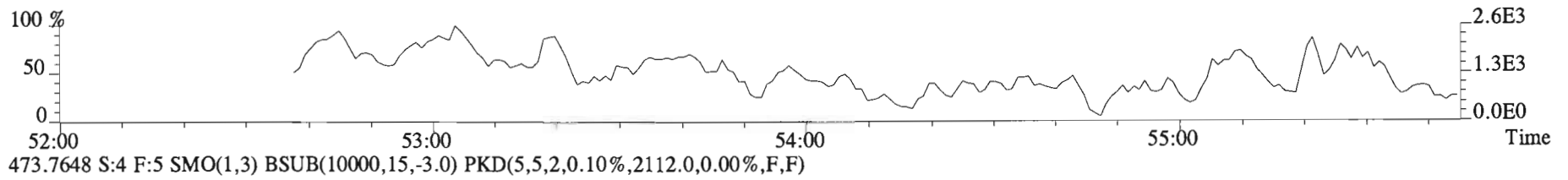
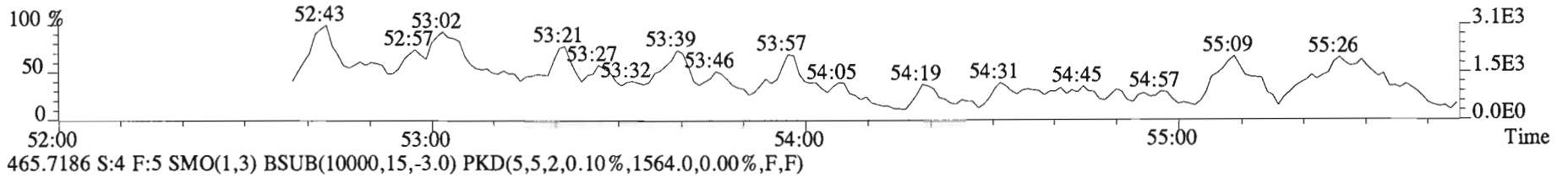
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
427.7635 S:4 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2028.0,0.00%,F,F)



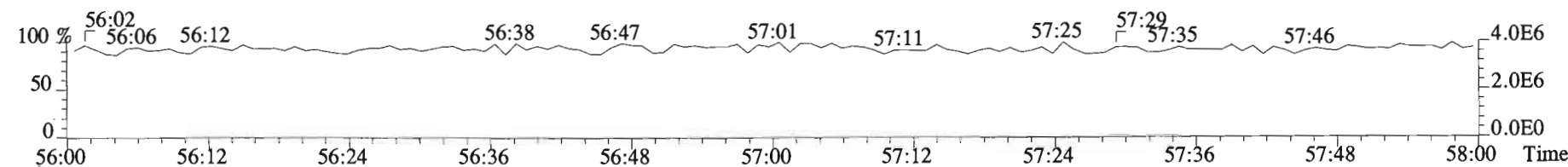
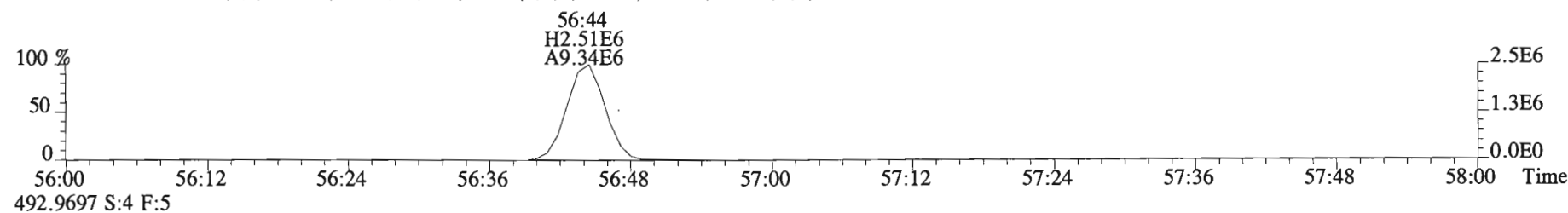
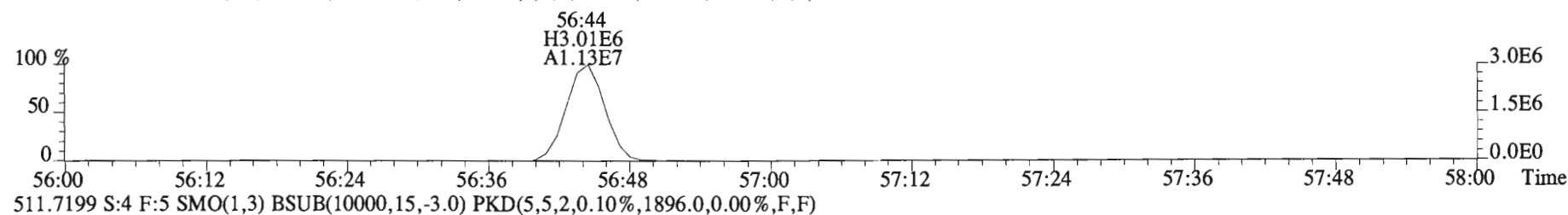
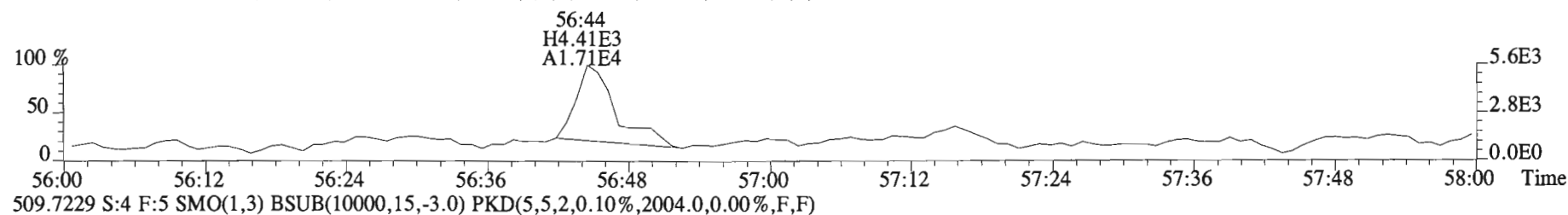
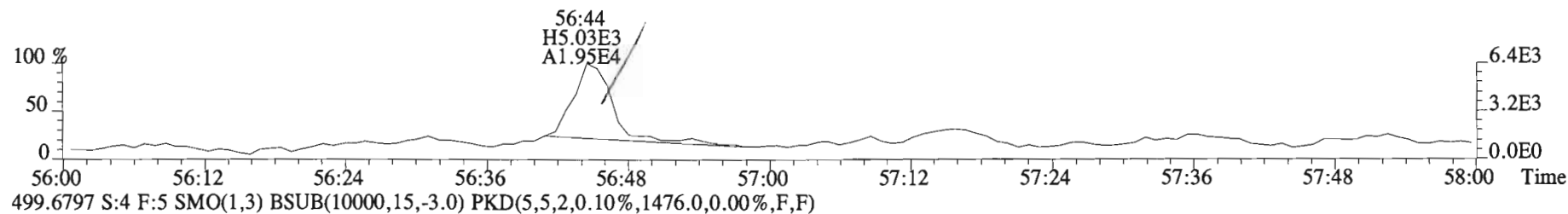
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Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
427.7635 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1712.0,0.00%,F,F)



File:150226E1 #1-429 Acq:26-FEB-2015 14:58:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
463.7216 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1540.0,0.00%,F,F)



File:150226E1 #1-429 Acq:26-FEB-2015 14:58:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BLK1 Method Blank 1 Exp:PCB_ZB1
497.6826 S:4 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1444.0,0.00%,F,F)



Lab Name: Vista Analytical Laboratory OPR Data Filename: B5B0085-BS1

Matrix : AQUEOUS Ext. Date: 2-20-15 Analysis Date: 26-FEB-15 Time: 12:49:54

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

NATIVE ANALYTES	SPIKE	CONC.	OPR CONC.	Labeled Compounds	SPIKE	CONC.	OPR CONC.	Clean Up Standard	SPIKE	CONC.	OPR CONC.
	CONC.	FOUND	LIMITS		CONC.	FOUND	LIMITS		CONC.	FOUND	LIMITS
	(ng/mL)	(ng/mL)	(ng/mL)		(ng/mL)	(ng/mL)	(ng/mL)		(ng/mL)	(ng/mL)	(ng/mL)
PCB-1	50	37.9	30.0-67.5	13C-PCB-1	100	73.5	15-145	13C-PCB-79	100	94.1	40-145
PCB-3	50	38.4	30.0-67.5	13C-PCB-3	100	81.9	15-145	13C-PCB-178	100	89.0	40-145
PCB-4/10	200	82.2	120-270	13C-PCB-4	100	63.4	15-145				
PCB-15	100	45.4	60.0-135	13C-PCB-11	100	66.9	15-145				
PCB-19	50	48.7	30.0-67.5	13C-PCB-19	100	74.0	15-145				
PCB-37	50	46.6	30.0-67.5	13C-PCB-37	100	85.7	15-145				
PCB-54	50	50.7	30.0-67.5	13C-PCB-54	100	60.4	15-145				
PCB-81	50	46.5	30.0-67.5	13C-PCB-81	100	69.0	40-145				
PCB-77	50	47.1	30.0-67.5	13C-PCB-77	100	66.5	40-145				
PCB-104	50	48.4	30.0-67.5	13C-PCB-104	100	74.1	40-145				
PCB-123	50	46.8	30.0-67.5	13C-PCB-123	100	78.6	40-145				
PCB-105/118	100	93.8	60.0-135	13C-PCB-118	100	74.6	40-145				
PCB-114	50	40.5	30.0-67.5	13C-PCB-114	100	65.5	40-145				
PCB-105	50	39.1	30.0-67.5	13C-PCB-105	100	68.5	40-145				
PCB-126	50	41.6	30.0-67.5	13C-PCB-126	100	72.8	40-145				
PCB-155	50	49.1	30.0-67.5	13C-PCB-155	100	70.6	40-145				
PCB-167	50	48.3	30.0-67.5	13C-PCB-167	100	73.0	40-145				
PCB-156	50	48.3	30.0-67.5	13C-PCB-156	100	79.7	40-145				
PCB-157	50	49.0	30.0-67.5	13C-PCB-157	100	78.9	40-145				
PCB-169	50	51.5	30.0-67.5	13C-PCB-169	100	74.5	40-145				
PCB-188	50	49.0	30.0-67.5	13C-PCB-188	100	60.5	40-145				
PCB-189	50	50.4	30.0-67.5	13C-PCB-189	100	66.4	40-145				
PCB-202	50	49.1	30.0-67.5	13C-PCB-202	100	74.4	40-145				
PCB-205	50	43.0	30.0-67.5	13C-PCB-194	100	82.3	40-145				
PCB-208	50	50.2	30.0-67.5	13C-PCB-208	100	81.6	40-145				
PCB-206	50	51.8	30.0-67.5	13C-PCB-206	100	79.5	40-145				
PCB-209	50	44.2	30.0-67.5	13C-PCB-209	100	72.0	40-145				

Analyst: DMS
 Date: 2/27/15

Client ID: OPR
Lab ID: B5B0085-BS1

Filename: 150226E1 S:2 Acq:26-FEB-15 12:49:54
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.0000 EndCAL: NA

ConCal: ST150226E1-1

Page 3 of

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	3.50e+07	2.99 y	1.33	16:10	1.001	0.997-1.007		37.9096	PCB-52/69	6.34e+07	0.79 y	1.29	31:30	1.001	0.996-1.006		99.4600
PCB-2	4.19e+07	3.03 y	1.30	18:32	0.988	0.983-0.993		40.4423	PCB-73	3.52e+07	0.80 y	1.41	31:37	1.004	0.999-1.009		50.5850
PCB-3	3.99e+07	2.99 y	1.30	18:46	1.001	0.996-1.006		38.3858	PCB-43/49	5.54e+07	0.81 y	1.14	31:47	1.010	1.005-1.015		98.5837
PCB-4/10	5.40e+07	1.59 y	1.67	20:08	1.003	0.997-1.007		82.2177	PCB-47	2.96e+07	0.81 y	1.20	32:00	1.001	0.996-1.006		50.0401
PCB-7/9	6.63e+07	1.64 y	1.25	21:54	0.868	0.864-0.872		85.4609	PCB-48/75	6.45e+07	0.80 y	1.33	32:07	1.004	0.999-1.009		98.5954
PCB-6	3.30e+07	1.63 y	1.24	22:33	0.894	0.888-0.897		43.0746	PCB-65	3.23e+07	0.79 y	1.32	32:23	1.013	1.007-1.017		49.6967
PCB-5/8	6.93e+07	1.63 y	1.27	22:57	0.910	0.905-0.915		88.0665	PCB-62	3.60e+07	0.79 y	1.36	32:29	1.016	1.011-1.021		53.7433
PCB-14	4.16e+07	1.61 y	1.47	24:02	0.953	0.948-0.958		42.7679	PCB-44	2.53e+07	0.79 y	0.87	32:48	1.026	1.020-1.030		58.8346
PCB-11	3.80e+07	1.66 y	1.28	25:14	1.000	0.995-1.005		44.7498	PCB-42/59	6.65e+07	0.80 y	1.24	33:01	1.032	1.027-1.037		109.156
PCB-12/13	7.61e+07	1.63 y	1.27	25:38	1.016	1.011-1.021		90.7684	PCB-41/64/71/72	1.45e+08	0.80 y	1.34	33:36	1.051	1.045-1.055		219.105
PCB-15	4.33e+07	1.63 y	1.44	25:56	1.028	1.023-1.031		45.4189	PCB-68	4.11e+07	0.80 y	1.61	33:51	1.059	1.053-1.063		51.8523
PCB-19	2.48e+07	1.09 y	1.18	24:14	1.001	0.996-1.006		48.6590	PCB-40	2.38e+07	0.81 y	0.86	34:05	1.066	1.061-1.071		56.4441
PCB-30	3.79e+07	1.09 y	1.87	25:07	1.038	1.033-1.043		46.9483	PCB-57	3.93e+07	0.81 y	1.12	34:26	0.970	0.965-0.975		48.8697
PCB-18	2.69e+07	1.09 y	0.89	25:52	0.954	0.949-0.959		46.8302	PCB-67	3.65e+07	0.83 y	1.09	34:45	0.979	0.974-0.984		46.6684
PCB-17	2.94e+07	1.09 y	0.96	26:02	0.960	0.956-0.966		47.4864	PCB-58	4.26e+07	0.78 y	1.14	34:51	0.982	0.977-0.987		52.2096
PCB-24/27	8.19e+07	1.08 y	1.30	26:37	0.981	0.977-0.987		97.3247	PCB-63	4.03e+07	0.80 y	1.16	35:00	0.986	0.981-0.991		48.3437
PCB-16/32	6.66e+07	1.08 y	1.05	27:07	1.000	0.996-1.006		98.1331	PCB-74	4.18e+07	0.81 y	1.21	35:19	0.995	0.989-0.999		48.0467
PCB-34	3.50e+07	1.10 y	1.30	27:54	0.960	0.955-0.965		45.9766	PCB-61/70	7.92e+07	0.79 y	1.13	35:29	1.000	0.995-1.005		98.0276
PCB-23	3.75e+07	1.10 y	1.21	28:00	0.963	0.958-0.968		52.9362	PCB-76/66	8.23e+07	0.79 y	1.18	35:41	1.005	1.000-1.010		97.2318
PCB-29	3.78e+07	1.09 y	1.21	28:15	0.972	0.967-0.977		53.4151	PCB-80	4.65e+07	0.80 y	1.32	35:56	1.000	0.995-1.005		48.2210
PCB-26	3.73e+07	1.09 y	1.24	28:27	0.979	0.974-0.984		51.5495	PCB-55	4.20e+07	0.79 y	1.23	36:15	1.009	1.004-1.014		46.8821
PCB-25	3.43e+07	1.11 y	1.10	28:38	0.985	0.980-0.990		53.4208	PCB-56/60	7.52e+07	0.80 y	1.11	36:45	1.023	1.018-1.028		93.3006
PCB-31	4.06e+07	1.10 y	1.25	28:58	0.997	0.992-1.002		55.3930	PCB-79	4.00e+07	0.81 y	1.16	37:50	1.053	1.048-1.058		47.3343
PCB-28	3.42e+07	1.10 y	1.24	29:05	1.001	0.996-1.006		47.1788	PCB-78	3.54e+07	0.80 y	1.18	38:32	0.987	0.982-0.992		45.9368
PCB-20/21/33	1.14e+08	1.08 y	1.16	29:41	1.021	1.016-1.026		167.732	PCB-81	3.93e+07	0.79 y	1.29	39:03	1.000	0.995-1.005		46.5281
PCB-22	3.77e+07	1.09 y	1.16	30:08	1.037	1.032-1.042		55.4507	PCB-77	3.70e+07	0.83 y	1.29	39:39	1.001	0.995-1.005		47.0861
PCB-36	3.95e+07	1.10 y	1.30	30:45	0.933	0.929-0.939		40.4320	PCB-104	2.61e+07	1.59 y	1.26	32:38	1.000	0.996-1.006		48.4264
PCB-39	4.37e+07	1.09 y	1.26	31:13	0.948	0.943-0.953		46.0289	PCB-96	2.36e+07	1.61 y	1.09	33:55	1.039	1.034-1.044		50.5260
PCB-38	4.07e+07	1.09 y	1.24	32:00	0.971	0.967-0.977		43.6194	PCB-103	2.16e+07	1.63 y	0.97	34:26	1.055	1.051-1.061		52.2109
PCB-35	4.24e+07	1.08 y	1.26	32:30	0.987	0.982-0.992		44.9061	PCB-100	2.13e+07	1.60 y	0.96	34:48	1.066	1.061-1.071		51.7357
PCB-37	4.73e+07	1.07 y	1.35	32:58	1.001	0.996-1.006		46.6475	PCB-94	1.90e+07	1.60 y	1.13	35:16	0.985	0.980-0.990		48.1177
PCB-54	3.16e+07	0.80 y	1.02	27:58	1.001	0.996-1.006		50.7491	PCB-95/98/102	6.74e+07	1.63 y	1.29	35:46	0.999	0.994-1.004		149.327
PCB-50	2.54e+07	0.80 y	0.78	29:07	1.042	1.037-1.047		53.5722	PCB-93	1.54e+07	1.42 y	1.06	35:55	1.003	0.998-1.008		41.3633
PCB-53	2.63e+07	0.79 y	1.14	29:46	0.946	0.941-0.951		46.8255	PCB-88/91	3.86e+07	1.60 y	1.12	36:11	1.011	1.006-1.016		98.1493
PCB-51	2.62e+07	0.79 y	1.16	30:06	0.956	0.952-0.962		45.6489	PCB-121	2.82e+07	1.62 y	1.76	36:18	1.014	1.009-1.019		45.6679
PCB-45	2.45e+07	0.81 y	1.04	30:32	0.970	0.965-0.975		47.6290	PCB-84/92	4.00e+07	1.62 y	1.07	37:08	0.991	0.985-0.995		100.425
PCB-46	2.30e+07	0.80 y	0.95	31:02	0.986	0.981-0.991		49.0742	PCB-89	1.85e+07	1.62 y	1.00	37:18	0.995	0.990-1.000		49.9831

Integrations

by

Analyst: DMS

Date: 2/27/15

Reviewed

by

Analyst: CT

Date: 3/5/15

Client ID: OPR
Lab ID: B5B0085-BS1

Filename: 150226E1 S:2 Acq:26-FEB-15 12:49:54 ConCal: ST150226E1-1
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	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	4.30e+07	1.62	y	1.21	37:29	1.000	0.995-1.005	96.0571	PCB-133/142	3.40e+07	1.30	y	0.91	42:26	0.982	0.977-0.987	87.4222
PCB-113	2.49e+07	1.63	y	1.34	37:44	1.007	1.002-1.012	50.0941	PCB-131	1.74e+07	1.26	y	0.85	42:36	0.986	0.981-0.991	48.1305
PCB-99	2.22e+07	1.64	y	1.25	37:50	1.009	1.004-1.014	47.9168	PCB-146/165	4.38e+07	1.30	y	1.08	42:48	0.991	0.986-0.996	94.6264
PCB-119	2.86e+07	1.64	y	1.88	38:17	0.987	0.982-0.992	47.0170	PCB-132/161	4.53e+07	1.28	y	1.12	43:03	0.996	0.992-1.002	94.7083
PCB-108/112	4.14e+07	1.61	y	1.41	38:27	0.991	0.986-0.996	90.9120	PCB-153	2.17e+07	1.27	y	1.20	43:14	1.001	0.996-1.006	42.4275
PCB-83	2.55e+07	1.63	y	1.66	38:36	0.995	0.990-1.000	47.3443	PCB-168	2.70e+07	1.27	y	1.36	43:26	1.005	1.000-1.010	46.6206
PCB-97	1.96e+07	1.62	y	1.30	38:49	1.001	0.995-1.005	46.6531	PCB-141	1.97e+07	1.28	y	1.16	43:58	1.000	0.995-1.005	46.9810
PCB-86	1.61e+07	1.71	y	1.03	38:57	1.004	0.999-1.009	48.1484	PCB-137	2.06e+07	1.28	y	1.18	44:21	1.009	1.004-1.014	48.3043
B-87/117/125	7.04e+07	1.58	y	1.59	39:05	1.007	1.002-1.012	136.517	PCB-130	1.79e+07	1.31	y	0.92	44:27	1.011	1.006-1.016	53.6246
PCB-111/115	4.87e+07	1.55	y	1.86	39:14	1.011	1.006-1.016	80.8798	PCB-138/163/164	7.21e+07	1.29	y	1.38	44:50	1.001	0.996-1.006	139.402
PCB-85/116	3.95e+07	1.69	y	1.39	39:22	1.015	1.010-1.020	87.3834	PCB-158/160	5.43e+07	1.27	y	1.48	45:05	1.007	1.001-1.011	98.1154
PCB-120	2.71e+07	1.60	y	1.99	39:37	1.021	1.016-1.026	42.1613	PCB-129	1.91e+07	1.30	y	0.99	45:19	1.012	1.007-1.017	51.4025
PCB-110	2.49e+07	1.60	y	1.70	39:45	1.025	1.019-1.029	45.0298	PCB-166	2.71e+07	1.27	y	1.14	45:45	0.993	0.988-0.998	49.4329
PCB-82	1.52e+07	1.61	y	0.74	40:22	0.976	0.971-0.981	49.5968	PCB-159	2.89e+07	1.27	y	1.22	46:05	1.000	0.995-1.005	49.3439
PCB-124	2.57e+07	1.62	y	1.30	41:03	0.992	0.988-0.998	47.7768	PCB-128/162	5.05e+07	1.28	y	1.03	46:22	1.006	1.002-1.012	101.678
PCB-107/109	5.06e+07	1.63	y	1.34	41:12	0.996	0.991-1.001	91.8198	PCB-167	2.83e+07	1.30	y	1.18	46:45	1.000	0.995-1.005	48.3005
PCB-123	2.42e+07	1.63	y	1.25	41:22	1.000	0.995-1.005	46.8013	PCB-156	3.24e+07	1.28	y	1.27	48:03	1.000	0.995-1.005	48.3266
- PCB-106/118	5.04e+07	1.61	y	1.29	41:35	1.001	0.996-1.006	93.7907	PCB-157	3.27e+07	1.29	y	1.22	48:19	1.000	0.995-1.005	49.0395
- PCB-114	2.38e+07	1.62	y	1.45	42:12	1.000	0.995-1.005	40.4955	PCB-169	2.79e+07	1.28	y	1.07	50:25	1.000	0.995-1.005	51.4810
PCB-122	2.19e+07	1.63	y	1.22	42:21	1.003	0.999-1.009	44.4835									
PCB-105	2.46e+07	1.57	y	1.56	43:05	1.001	0.995-1.005	39.1451	PCB-188	2.25e+07	1.06	y	1.52	42:52	1.000	0.996-1.006	49.0346
PCB-127	2.20e+07	1.67	y	1.31	43:24	1.000	0.995-1.005	41.1482	PCB-184	2.14e+07	1.11	y	1.34	43:18	1.011	1.006-1.016	53.0975
PCB-126	2.36e+07	1.65	y	1.41	45:19	1.001	0.995-1.005	41.5931	PCB-179	2.28e+07	1.05	y	1.39	44:05	1.029	1.024-1.034	54.3975
									PCB-176	2.43e+07	1.07	y	1.45	44:33	1.040	1.035-1.045	55.4210
PCB-155	2.15e+07	1.27	y	1.20	37:03	1.001	0.966-1.006	49.1080	PCB-166	2.46e+07	1.08	y	1.46	45:09	1.054	1.049-1.059	56.1677
PCB-150	2.09e+07	1.31	y	1.13	38:19	1.035	1.030-1.040	50.5711	PCB-178	1.80e+07	1.07	y	1.07	45:39	1.065	1.061-1.071	55.5708
PCB-152	2.08e+07	1.28	y	1.17	38:47	1.048	1.043-1.053	48.7178	PCB-175	1.87e+07	1.12	y	1.05	45:60	1.074	1.069-1.079	59.4366
PCB-145	1.90e+07	1.26	y	1.09	39:14	1.059	1.055-1.065	47.5086	PCB-182/187	3.97e+07	1.07	y	1.14	46:10	1.078	1.073-1.083	116.120
PCB-136	2.21e+07	1.27	y	1.14	39:33	1.068	1.063-1.073	52.7751	PCB-183	2.11e+07	1.05	y	1.22	46:29	1.085	1.080-1.090	57.3493
PCB-148	1.34e+07	1.31	y	0.82	39:41	1.071	1.066-1.076	44.9222	PCB-185	1.95e+07	1.08	y	1.40	47:08	0.956	0.950-0.960	53.1680
PCB-154	1.70e+07	1.31	y	0.89	40:10	1.084	1.079-1.089	52.2867	PCB-174	1.76e+07	1.06	y	1.29	47:29	0.963	0.958-0.968	52.4298
PCB-151	1.61e+07	1.27	y	0.82	40:48	1.102	1.097-1.107	53.7913	PCB-181	1.99e+07	1.06	y	1.35	47:36	0.965	0.960-0.970	56.6293
PCB-135	1.60e+07	1.21	y	0.80	41:01	1.107	1.101-1.113	54.7496	PCB-177	1.81e+07	1.09	y	1.27	47:46	0.969	0.963-0.973	54.7581
PCB-144	1.73e+07	1.31	y	0.86	41:08	1.111	1.105-1.116	55.2070	PCB-171	2.01e+07	1.08	y	1.46	48:04	0.975	0.969-0.979	52.9085
PCB-147	1.40e+07	1.30	y	0.78	41:15	1.114	1.108-1.120	49.2234	PCB-173	1.72e+07	1.06	y	1.10	48:29	0.983	0.978-0.988	59.8085
PCB-139/149	3.25e+07	1.30	y	0.87	41:31	1.121	1.115-1.127	102.058	PCB-172	1.91e+07	1.08	y	1.35	48:56	0.992	0.987-0.997	54.0509
- PCB-140	1.51e+07	1.29	y	0.78	41:42	1.126	1.120-1.132	53.0250	PCB-192	2.38e+07	1.07	y	1.74	49:08	0.996	0.991-1.001	52.4725
- PCB-134/143	3.82e+07	1.29	y	0.93	42:08	0.975	0.970-0.980	95.8195	PCB-180	1.82e+07	1.04	y	1.45	49:20	1.000	0.995-1.005	48.1047

Integrations

by

Analyst: DMS

Date: 2/27/15

Client ID: OPR
Lab ID: B5B0085-BS1

Filename: 150226E1 S:2 Acq:26-FEB-15 12:49:54
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.0000 EndCAL: NA

ConCal: ST150226E1-1

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	2.46e+07	1.07 y	1.85	49:32	1.004	0.999-1.009		50.9442
PCB-191	2.51e+07	1.06 y	1.86	49:47	1.009	1.005-1.015		51.5862
PCB-170	1.71e+07	1.06 y	1.67	50:47	1.000	0.995-1.005		47.4493
PCB-190	2.43e+07	1.05 y	2.25	50:57	1.004	0.999-1.009		50.0298
PCB-189	2.20e+07	1.07 y	1.67	52:15	1.000	0.995-1.005		50.3660
PCB-202	1.80e+07	0.91 y	1.02	48:16	1.000	0.995-1.005		49.1103
PCB-201	1.99e+07	0.92 y	1.10	48:44	1.010	1.005-1.015		50.3583
PCB-204	1.89e+07	0.93 y	1.07	48:54	1.014	1.009-1.019		48.6739
PCB-197	2.03e+07	0.94 y	1.17	49:12	1.020	1.015-1.025		48.2770
PCB-200	1.92e+07	0.90 y	1.03	50:04	1.038	1.034-1.044		51.4349
PCB-198	1.39e+07	0.92 y	0.75	51:22	1.065	1.062-1.072		51.1712
PCB-199	1.29e+07	0.92 y	0.74	51:28	1.067	1.064-1.074		48.1676
- PCB-196/203	2.82e+07	0.91 y	0.83	51:44	1.072	1.070-1.080		94.3710
- PCB-195	1.34e+07	0.92 y	1.14	52:53	0.984	0.979-0.989		48.6842
PCB-194	1.30e+07	0.92 y	1.29	53:44	1.000	0.995-1.005		41.7696
PCB-205	1.67e+07	0.91 y	1.61	54:02	1.006	1.001-1.010		43.0435
PCB-208	1.77e+07	1.34 y	1.01	53:01	1.000	0.995-1.005		50.1563
PCB-207	1.78e+07	1.35 y	1.03	53:20	1.006	1.001-1.011		49.9730
PCB-206	1.05e+07	1.33 y	0.88	55:23	1.000	0.995-1.005		51.8243
PCB-209	1.19e+07	1.20 y	1.35	56:42	1.000	0.995-1.005		44.1685

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	1.17e+08	2.99 y	16:10	1.31	116.738
Total Di-PCB	4.23e+08	1.59 y	20:08	1.32	523.727
Total Tri-PCB	2.67e+08	1.09 y	24:14	1.20	385.382
Total Tri-PCB	6.29e+08	1.10 y	27:54	1.23	813.544
Total Tetra-PCB	1.46e+09	0.80 y	27:58	1.17	2117.46
Total Penta-PCB	9.19e+08	1.59 y	32:38	1.24	1933.52
Total Penta-PCB	1.26e+08	1.62 y	42:12	1.39	225.426
Total Hexa-PCB	2.46e+08	1.27 y	37:03	0.94	713.944
Total Hexa-PCB	6.66e+08	1.29 y	42:08	1.13	1360.12
Total Hepta-PCB	5.05e+08	1.06 y	42:52	1.37	1304.92
Total Octa-PCB	1.51e+08	0.91 y	48:16	0.95	441.564
Total Octa-PCB	4.46e+07	0.92 y	52:53	1.35	138.203
Total Nona-PCB	4.62e+07	1.34 y	53:01	0.99	152.904
Total Deca-PCB	1.19e+07	1.20 y	56:42	1.35	44.1685

Total PCB Conc:10193.9259140

Integrations

by

Analyst: *DMS*

Date: *2/27/15*

Client ID: OPR
Lab ID: B5B0085-BS1

Filename: 150226E1 S:2 Acq:26-FEB-15 12:49:54
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol:1.0000

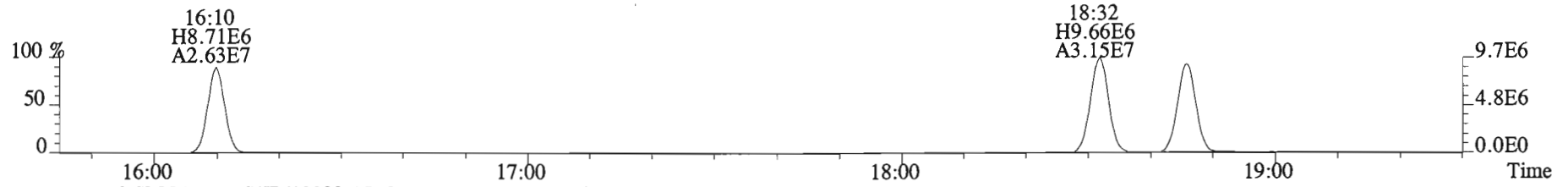
ConCal: ST150226E1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	6.94e+07	3.19 y	0.91	16:09	0.623	0.619-0.625		73.5	73.5											
13C-PCB-3	8.00e+07	3.17 y	0.94	18:45	0.723	0.718-0.726		81.9	81.9		13C-PCB-79	9.13e+07	0.83 y	1.02	37:49	1.029	1.024-1.033		94.1	94.1
13C-PCB-4	3.93e+07	1.58 y	0.60	20:04	0.774	0.770-0.778		63.4	63.4		13C-PCB-178	2.78e+07	0.47 y	0.64	45:37	0.984	0.980-0.989		89.0	89.0
13C-PCB-9	6.20e+07	1.52 y	0.96	21:51	0.843	0.839-0.847		62.2	62.2											
13C-PCB-11	6.62e+07	1.55 y	0.95	25:13	0.973	0.968-0.978		66.9	66.9											
13C-PCB-19	4.31e+07	1.07 y	0.56	24:13	0.934	0.929-0.939		74.0	74.0											
13C-PCB-28	5.86e+07	1.06 y	1.07	29:04	1.003	0.999-1.009		60.1	60.1		13C-PCB-79	9.13e+07	0.83 y	1.02	37:49	0.969	0.963-0.973		136	136
13C-PCB-32	6.48e+07	1.09 y	0.83	27:07	1.046	1.041-1.051		75.7	75.7		13C-PCB-178	2.78e+07	0.47 y	0.84	45:37	0.925	0.920-0.930		126	126
13C-PCB-37	7.51e+07	1.08 y	0.96	32:56	1.137	1.131-1.143		85.7	85.7											
13C-PCB-47	4.93e+07	0.81 y	0.77	31:59	0.870	0.867-0.875		67.6	67.6											
13C-PCB-52	4.93e+07	0.80 y	0.71	31:29	0.857	0.853-0.861		72.9	72.9											
13C-PCB-54	6.08e+07	0.81 y	1.06	27:57	0.760	0.757-0.765		60.4	60.4											
13C-PCB-70	7.18e+07	0.80 y	0.99	35:30	0.966	0.961-0.971		76.0	76.0											
13C-PCB-77	6.10e+07	0.84 y	0.96	39:38	1.078	1.073-1.083		66.5	66.5											
13C-PCB-80	7.29e+07	0.81 y	1.02	35:56	0.978	0.973-0.983		75.0	75.0											
13C-PCB-81	6.55e+07	0.81 y	1.00	39:02	1.062	1.057-1.067		69.0	69.0											
13C-PCB-95	3.50e+07	1.65 y	0.70	35:48	0.913	0.908-0.918		84.1	84.1											
13C-PCB-97	3.24e+07	1.61 y	0.66	38:48	0.989	0.984-0.994		82.7	82.7											
13C-PCB-101	3.71e+07	1.66 y	0.77	37:29	0.956	0.951-0.961		81.3	81.3											
13C-PCB-104	4.27e+07	1.61 y	0.97	32:38	0.832	0.828-0.836		74.1	74.1											
13C-PCB-105	4.04e+07	1.65 y	1.20	43:03	0.929	0.924-0.934		68.5	68.5											
13C-PCB-114	4.03e+07	1.65 y	1.26	42:12	0.911	0.905-0.915		65.5	65.5											
13C-PCB-118	4.16e+07	1.66 y	0.94	41:33	1.059	1.054-1.064		74.6	74.6											
13C-PCB-123	4.13e+07	1.63 y	0.88	41:22	1.054	1.049-1.059		78.6	78.6											
13C-PCB-126	4.02e+07	1.64 y	1.13	45:17	0.977	0.972-0.982		72.8	72.8											
13C-PCB-127	4.10e+07	1.64 y	1.26	43:24	0.937	0.931-0.941		66.5	66.5											
13C-PCB-138	3.75e+07	1.31 y	1.12	44:47	0.967	0.961-0.971		68.3	68.3											
13C-PCB-141	3.62e+07	1.34 y	1.09	43:57	0.948	0.943-0.953		67.6	67.6											
13C-PCB-153	4.28e+07	1.32 y	1.27	43:13	0.932	0.927-0.937		68.5	68.5											
13C-PCB-155	3.66e+07	1.22 y	0.87	37:02	0.944	0.939-0.949		70.6	70.6											
13C-PCB-156	5.28e+07	1.30 y	1.35	48:02	1.037	1.032-1.042		79.7	79.7											
13C-PCB-157	5.48e+07	1.35 y	1.42	48:18	1.042	1.037-1.047		78.9	78.9											
13C-PCB-159	4.80e+07	1.29 y	1.37	46:05	0.994	0.989-0.999		71.5	71.5											
13C-PCB-167	4.95e+07	1.32 y	1.38	46:45	1.009	1.004-1.014		73.0	73.0											
13C-PCB-169	5.05e+07	1.33 y	1.38	50:25	1.088	1.084-1.094		74.5	74.5											
13C-PCB-170	2.16e+07	0.46 y	0.60	50:46	1.095	1.091-1.103		73.1	73.1											
13C-PCB-180	2.61e+07	0.45 y	0.76	49:19	1.064	1.059-1.069		70.4	70.4											
13C-PCB-188	3.01e+07	0.47 y	1.01	42:51	0.924	0.919-0.929		60.5	60.5											
13C-PCB-189	2.61e+07	0.47 y	0.80	52:14	1.127	1.124-1.136		66.4	66.4											
13C-PCB-194	2.41e+07	0.93 y	0.75	53:44	0.995	0.990-1.000		82.3	82.3											
13C-PCB-202	3.61e+07	0.93 y	0.99	48:14	1.041	1.036-1.046		74.4	74.4											
13C-PCB-206	2.29e+07	0.79 y	0.73	55:22	1.025	1.020-1.301		79.5	79.5											
13C-PCB-208	3.47e+07	0.80 y	1.08	52:60	0.981	0.977-0.987		81.6	81.6											
13C-PCB-209	2.01e+07	1.20 y	0.71	56:42	1.050	1.045-1.055		72.0	72.0											

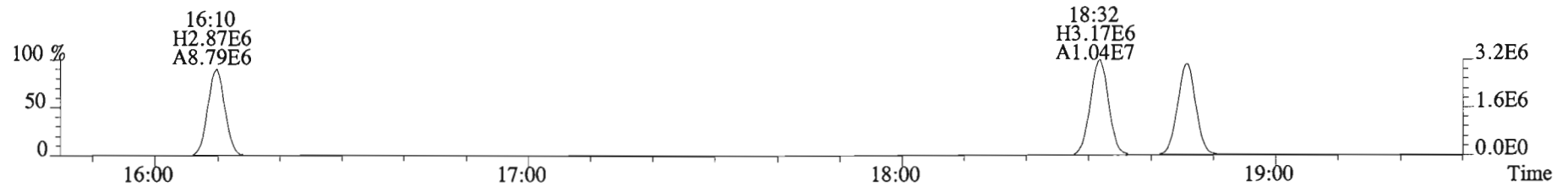
Analyst: DMS

Date: 2/27/15

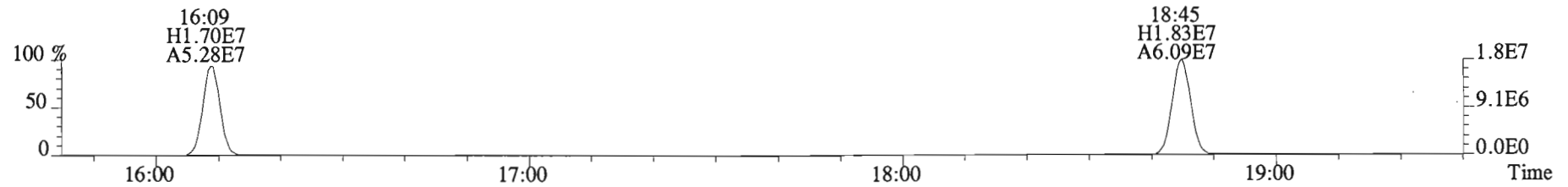
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Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
188.0393 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2592.0,0.00%,F,F)



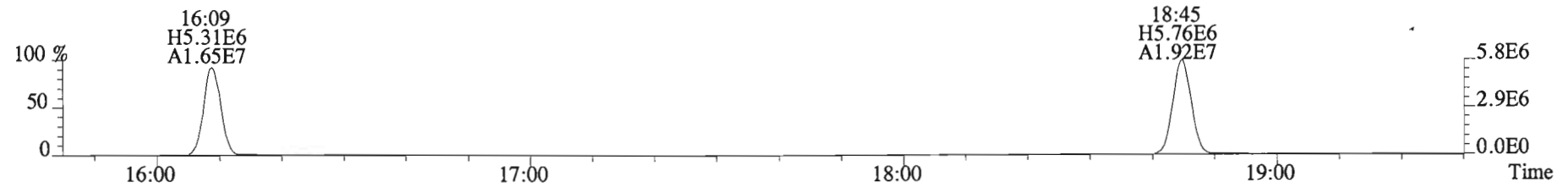
190.0363 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2344.0,0.00%,F,F)



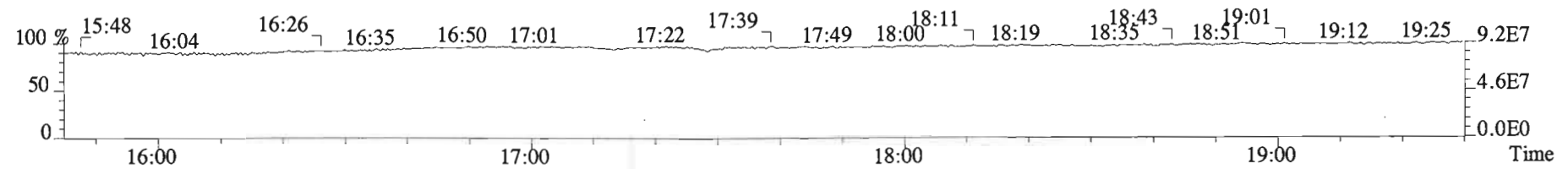
200.0795 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2760.0,0.00%,F,F)



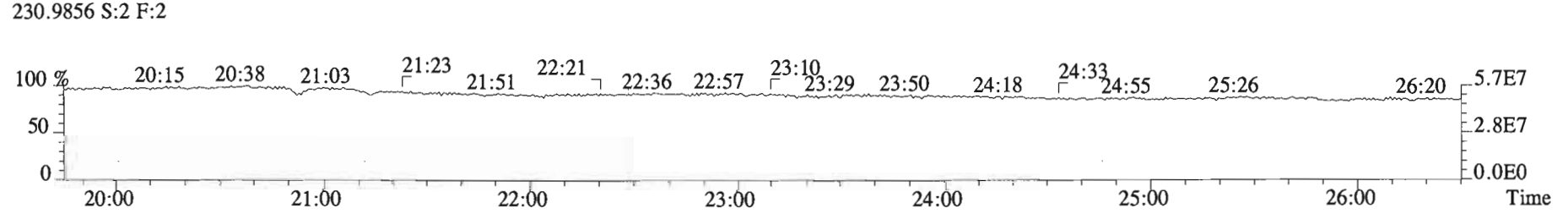
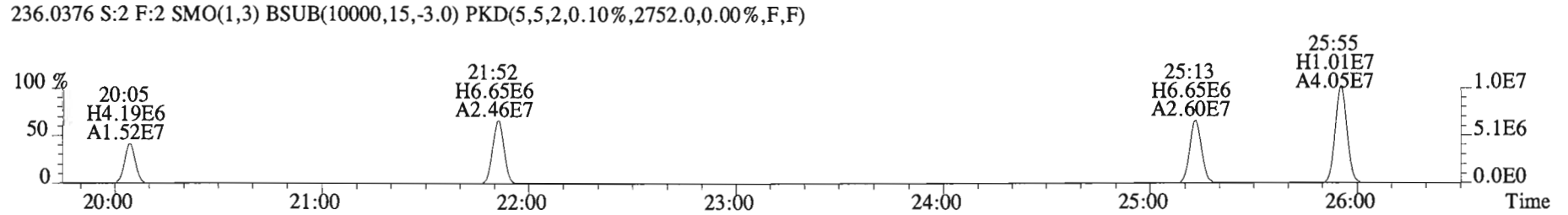
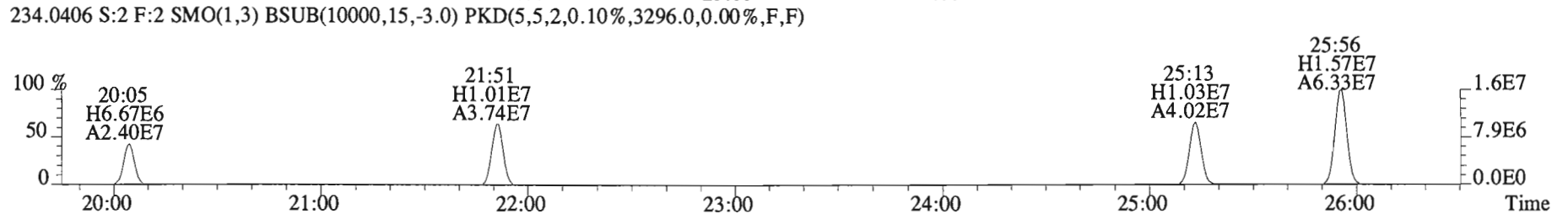
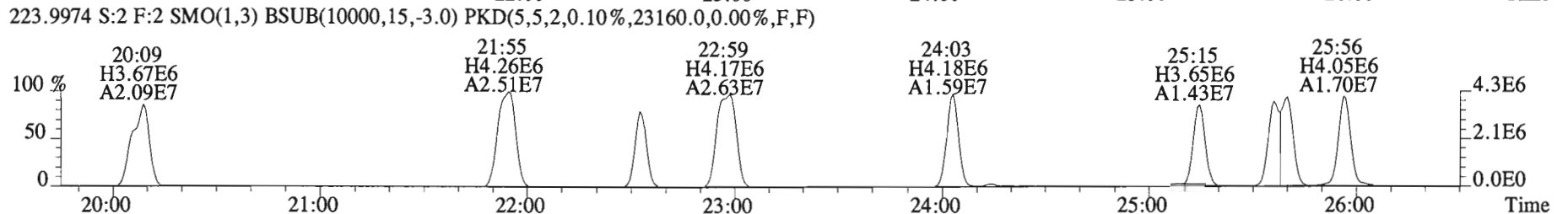
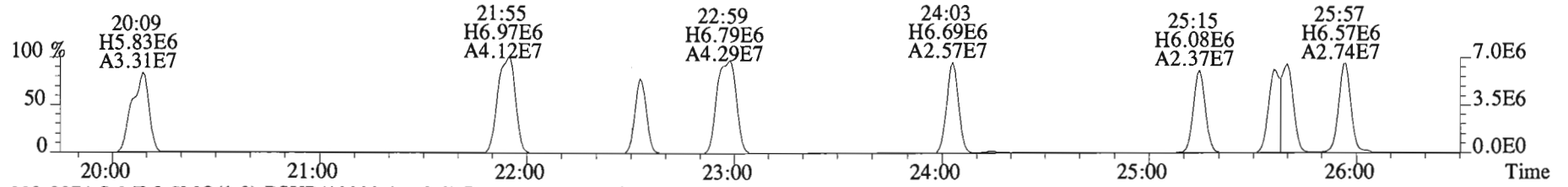
202.0766 S:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,10516.0,0.00%,F,F)



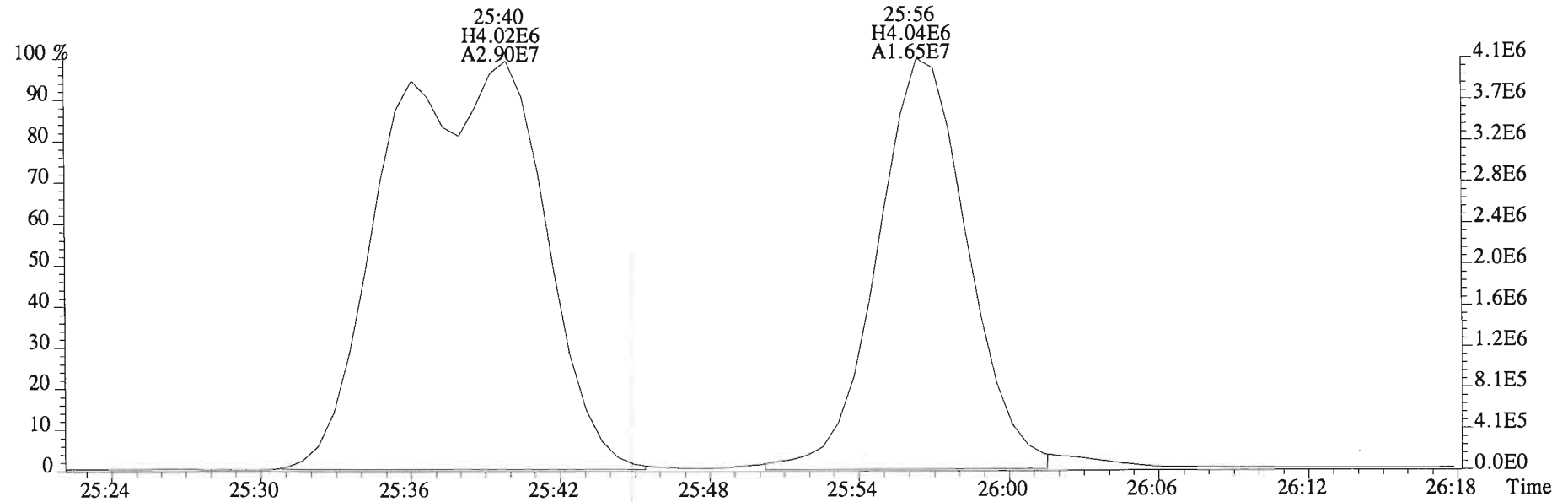
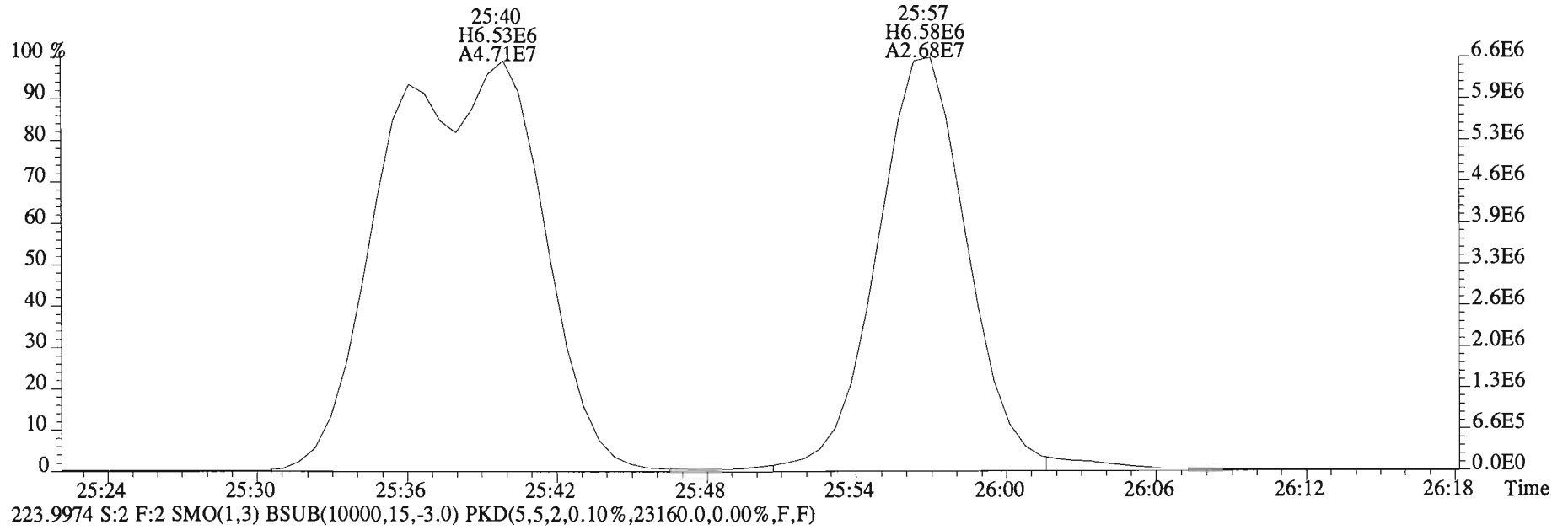
180.9880 S:2



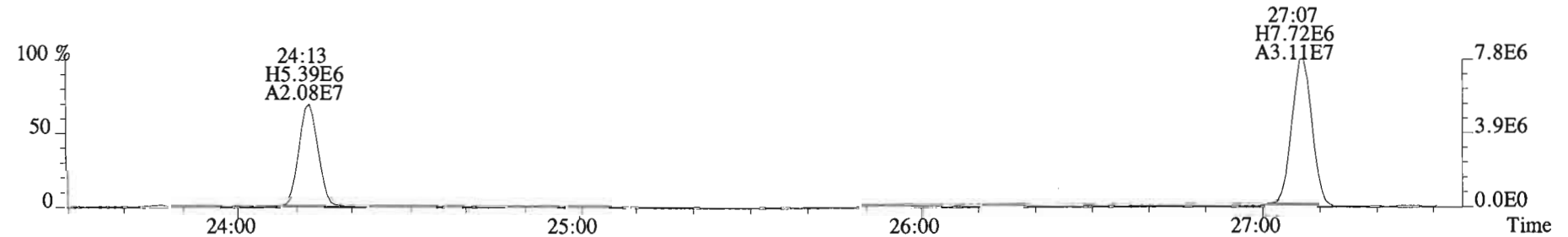
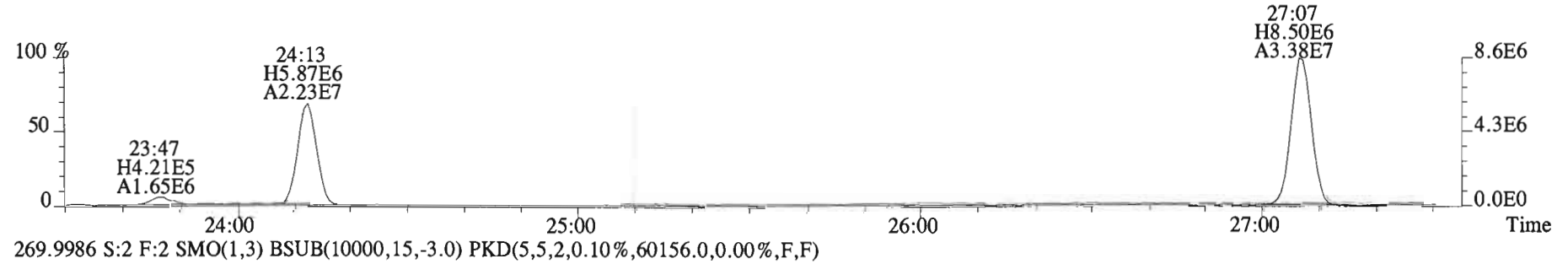
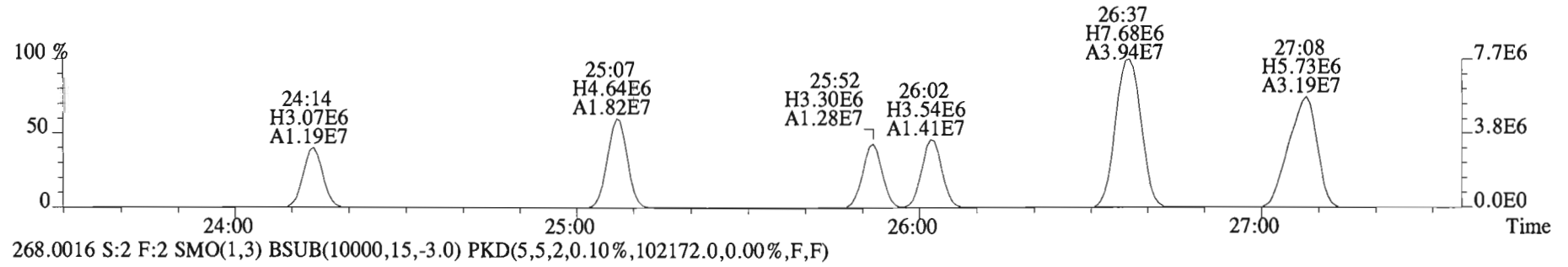
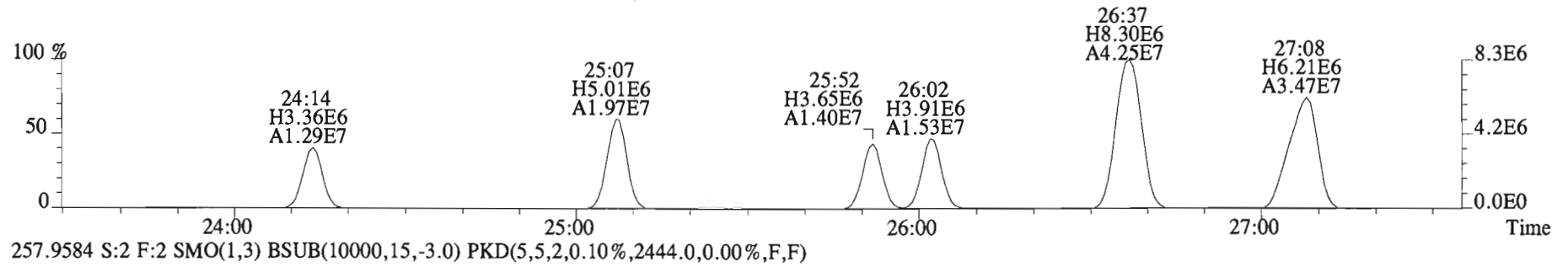
File:150226E1 #1-758 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
 222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4840.0,0.00%,F,F)



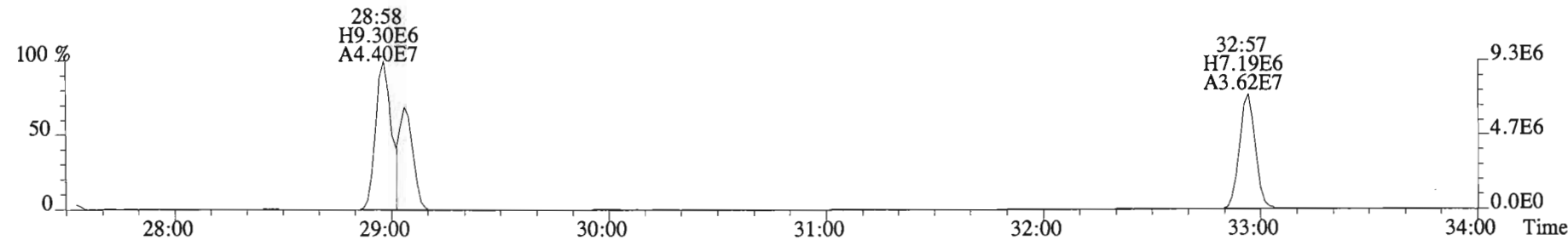
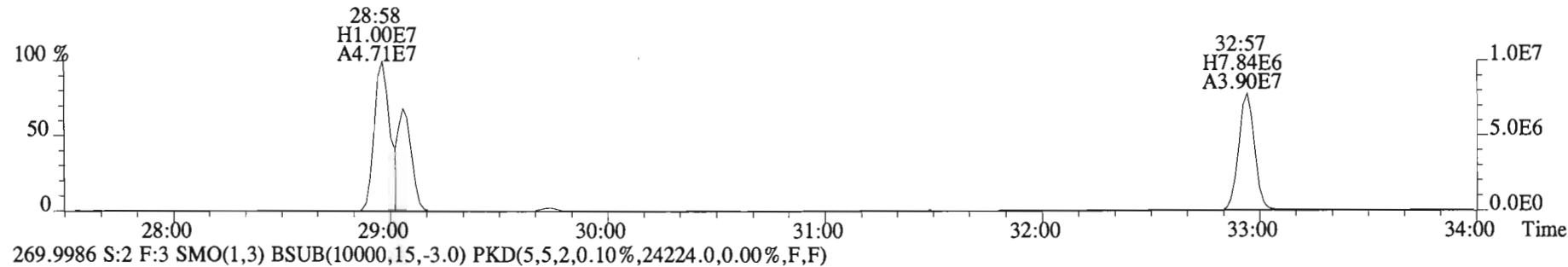
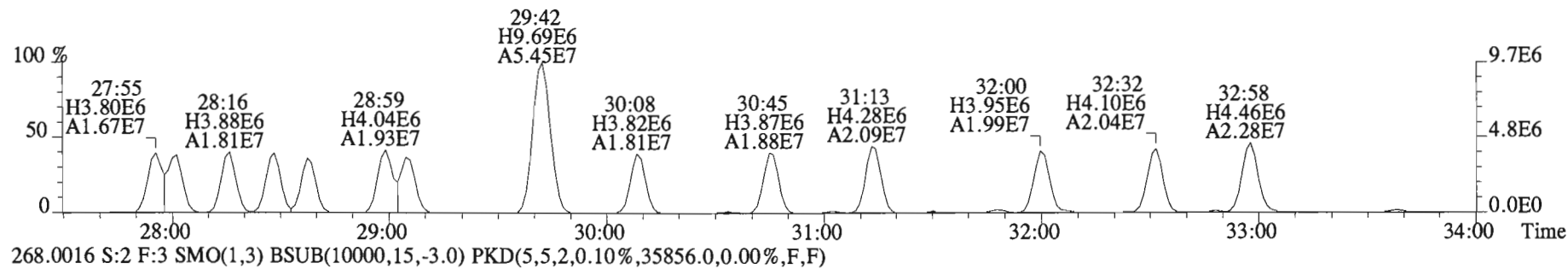
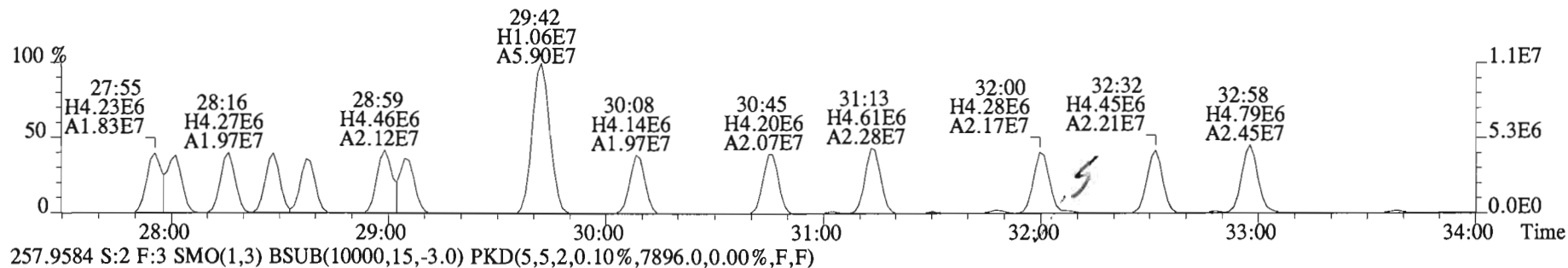
File:150226E1 #1-758 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
222.0003 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4840.0,0.00%,F,F)



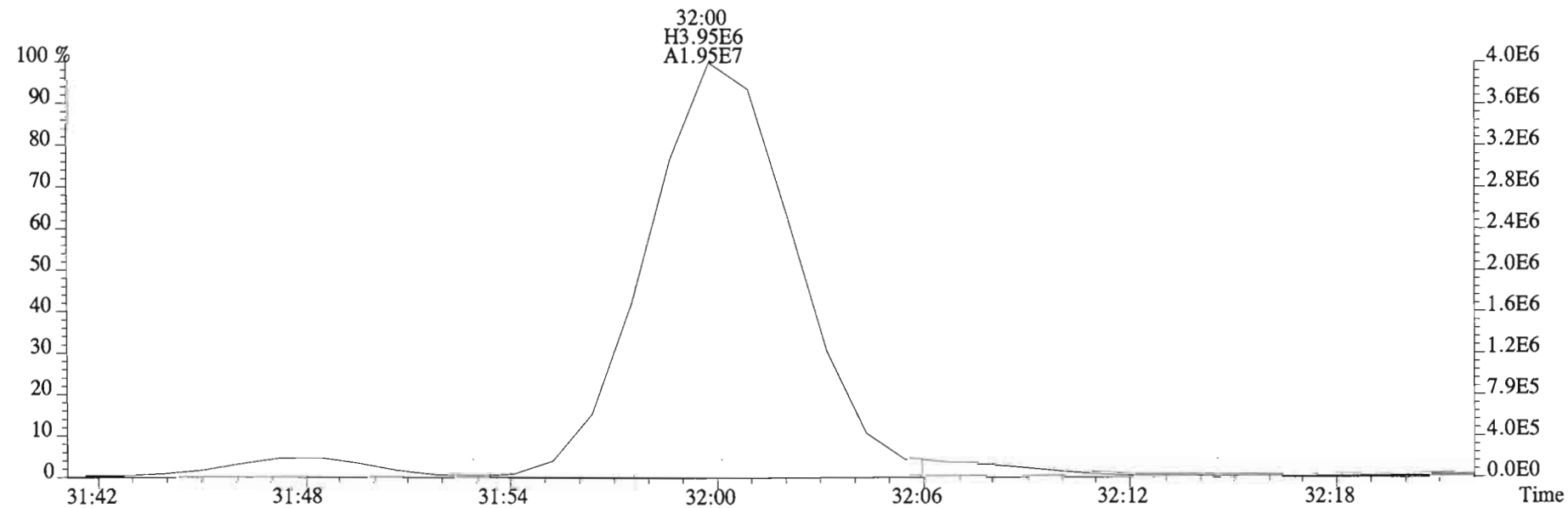
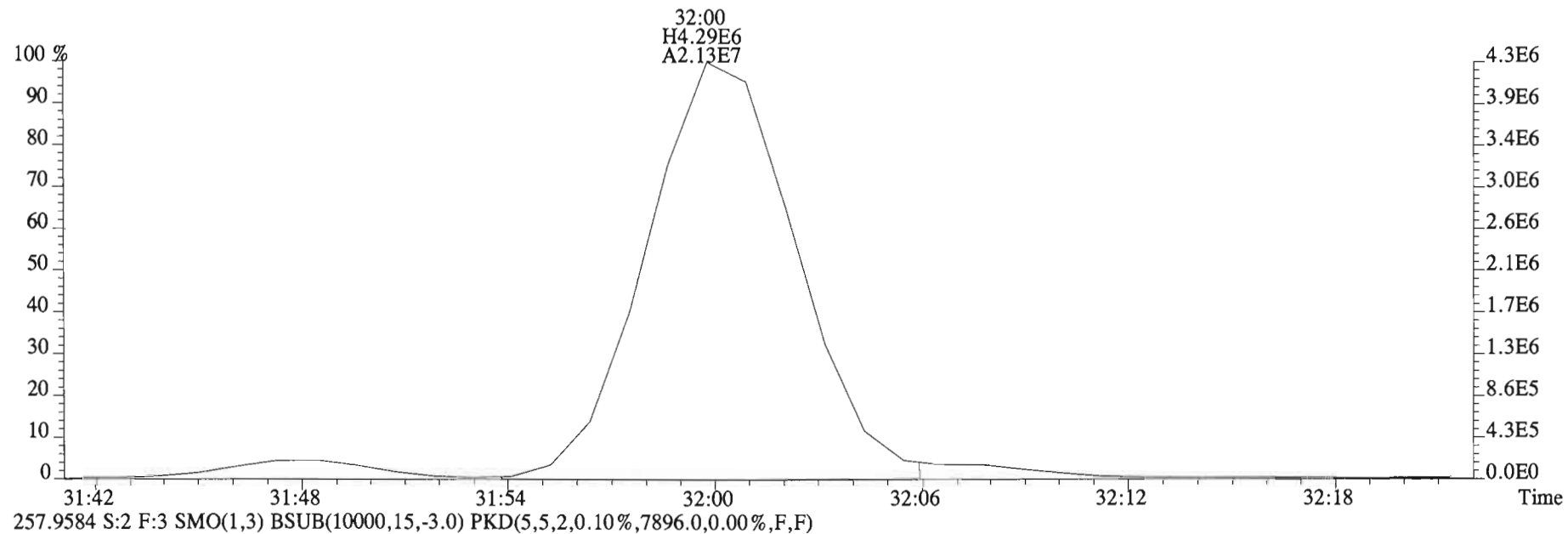
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Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
255.9613 S:2 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3412.0,0.00%,F,F)



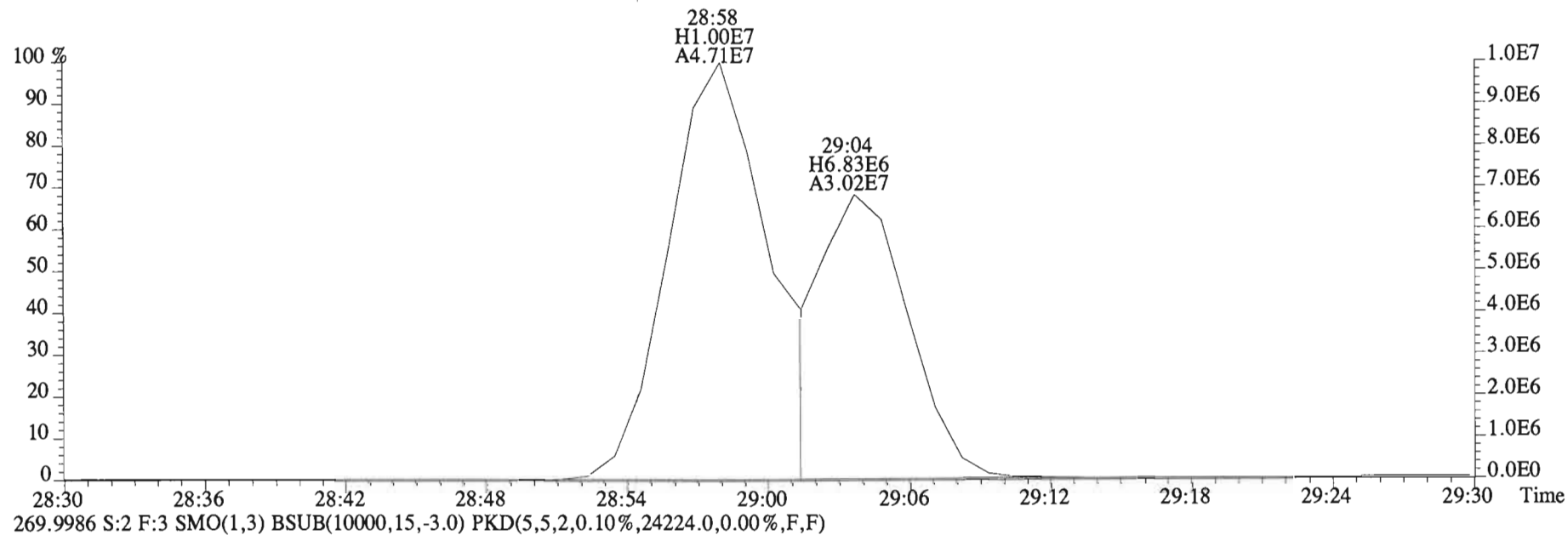
File:150226E1 #1-758 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
 255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,8520.0,0.00%,F,F)



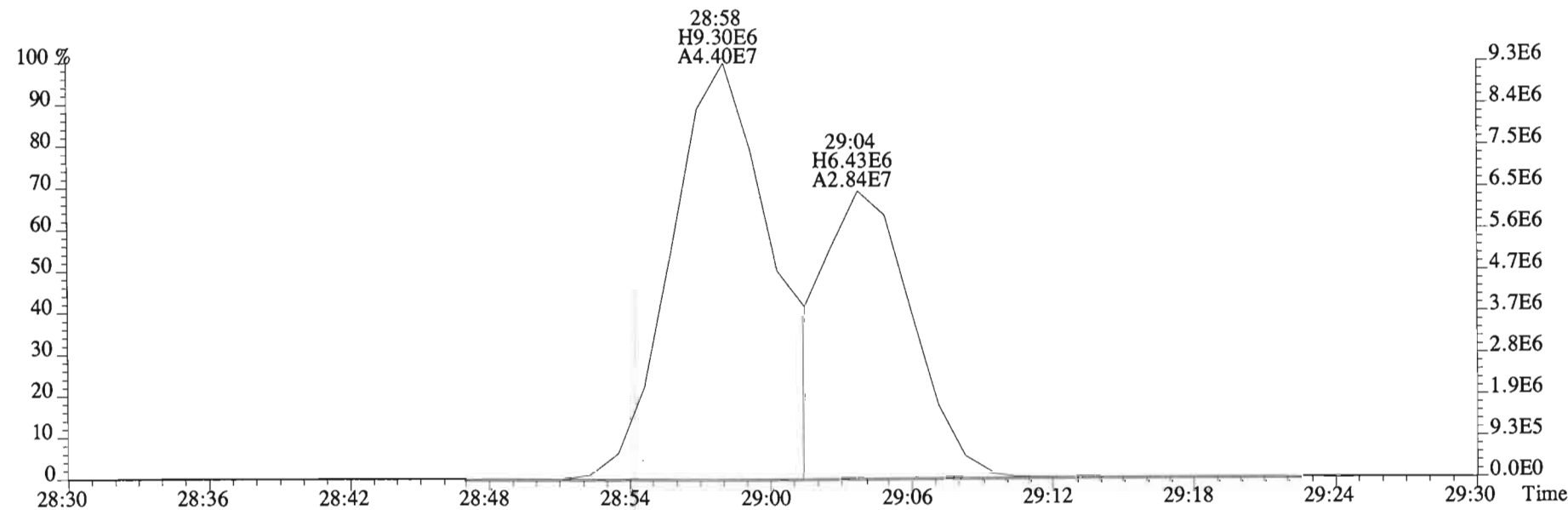
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Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
255.9613 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,8520.0,0.00%,F,F)



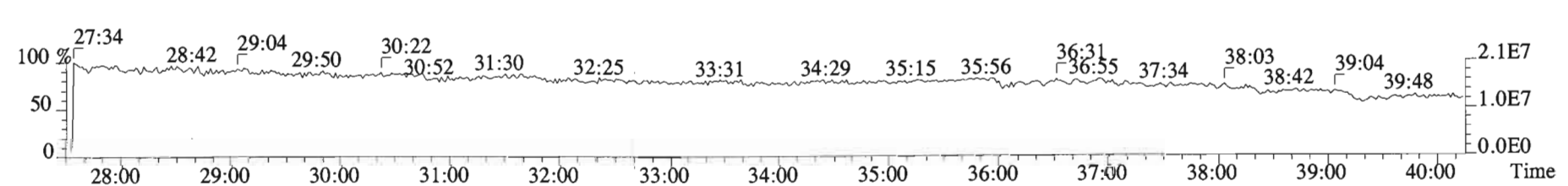
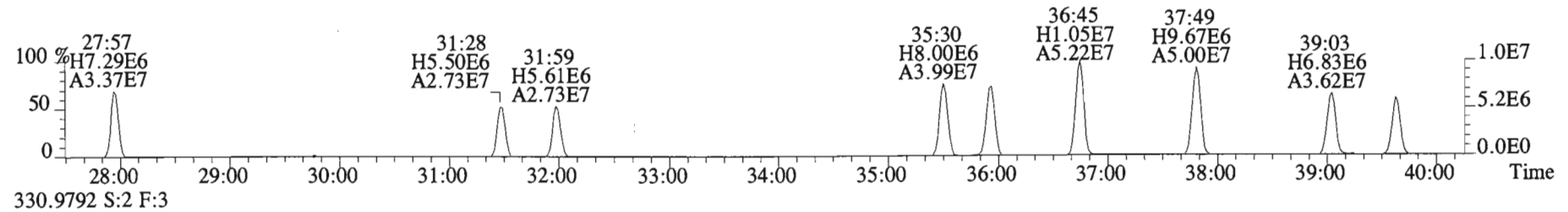
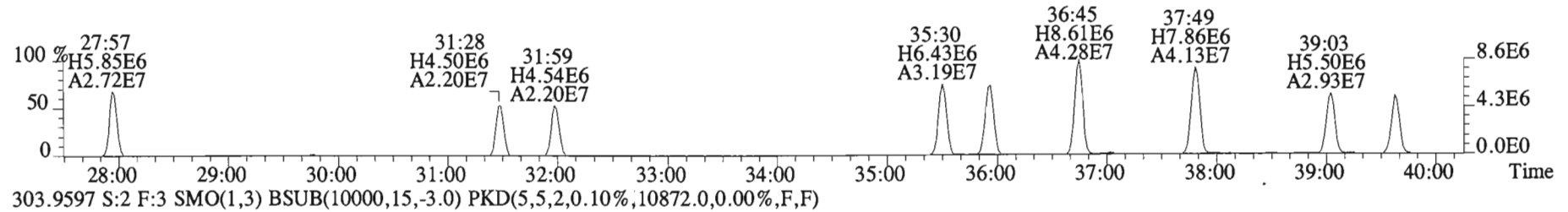
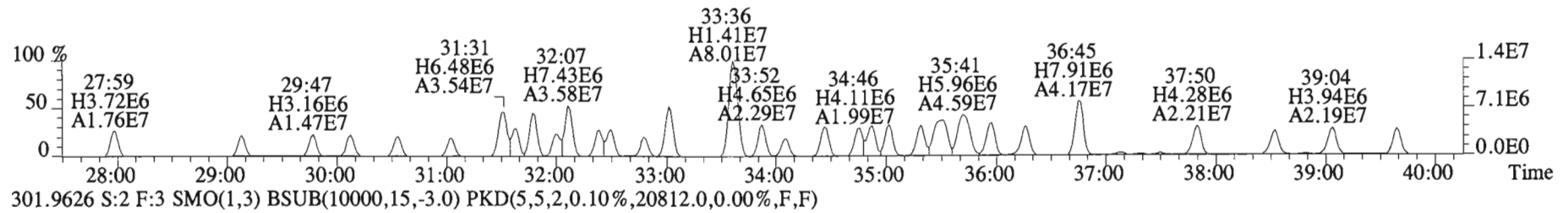
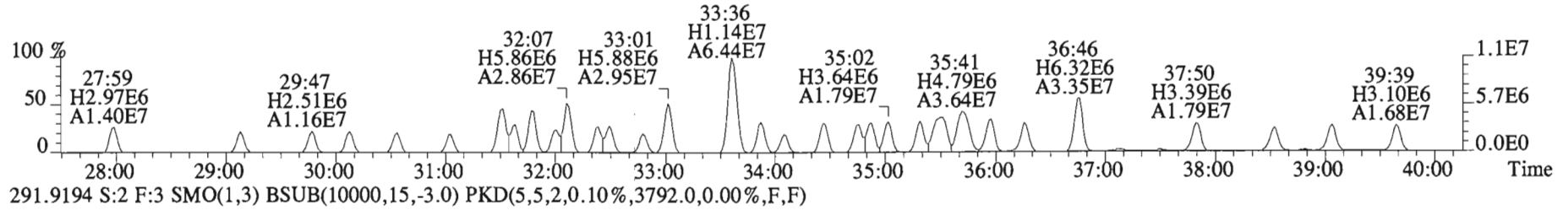
File:150226E1 #1-758 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
268.0016 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,35856.0,0.00%,F,F)



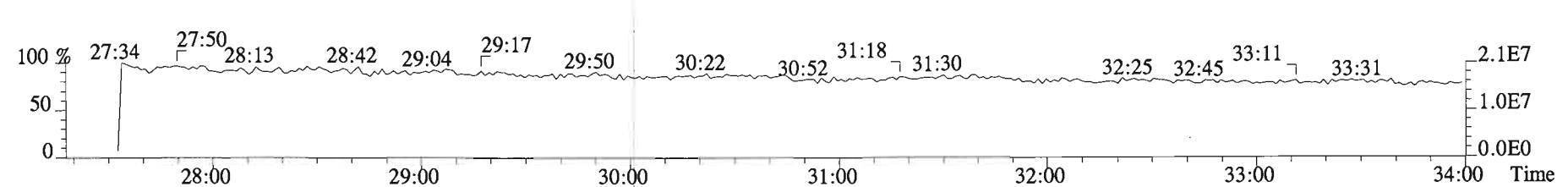
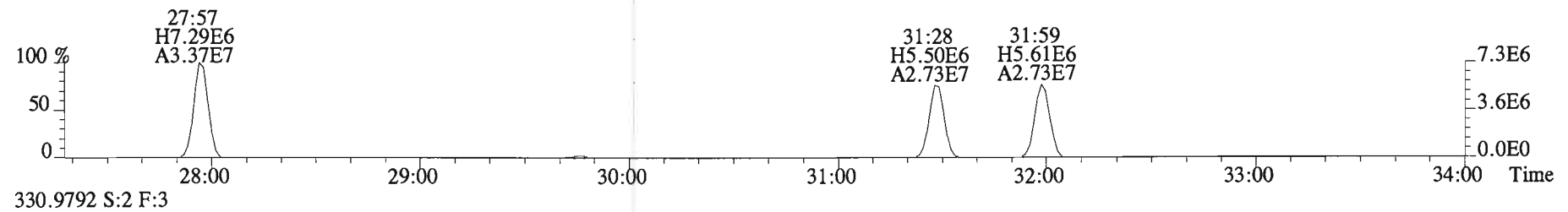
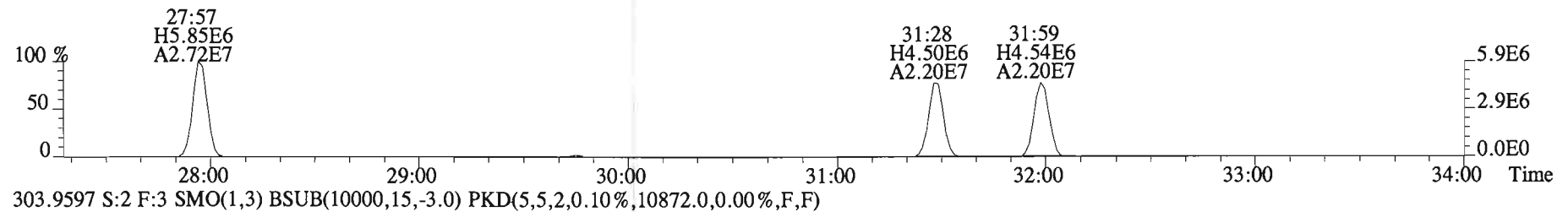
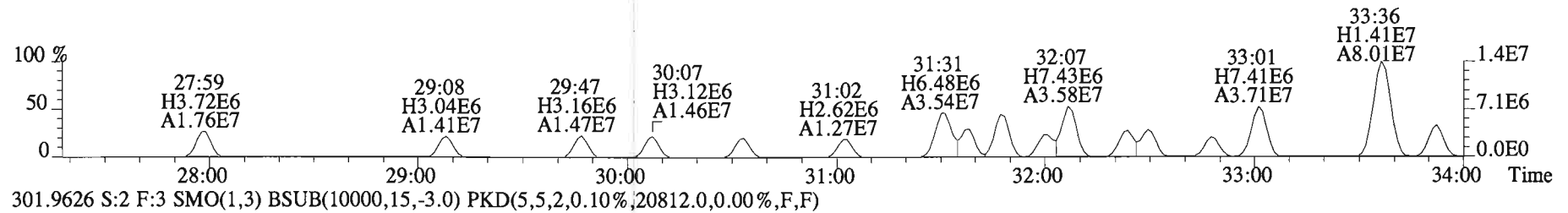
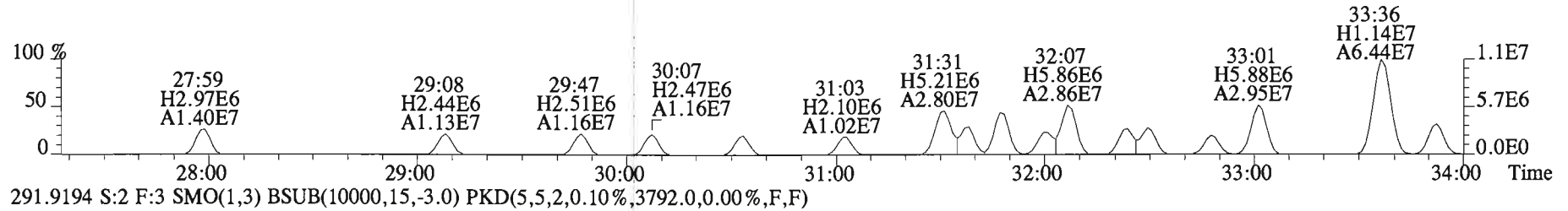
269.9986 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,24224.0,0.00%,F,F)



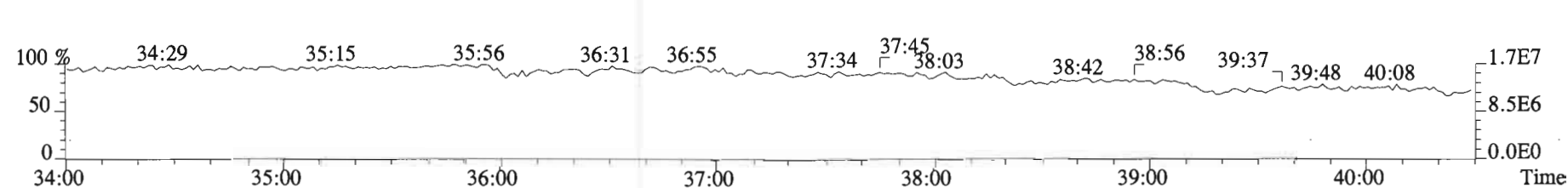
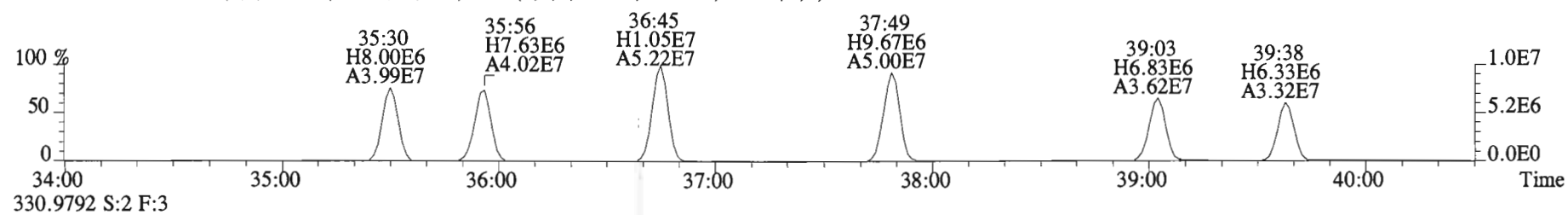
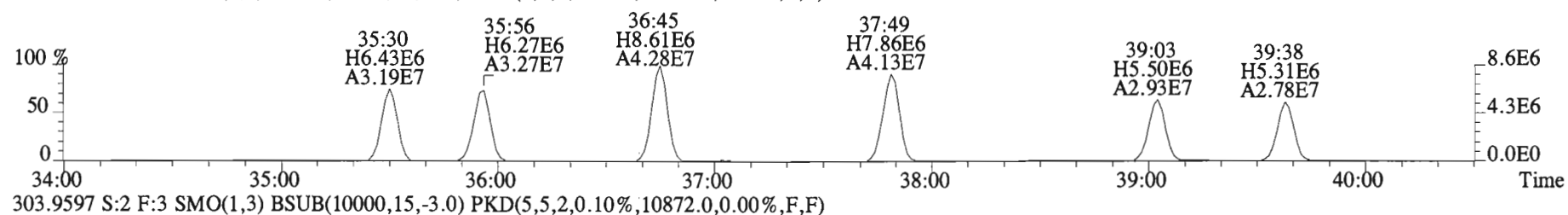
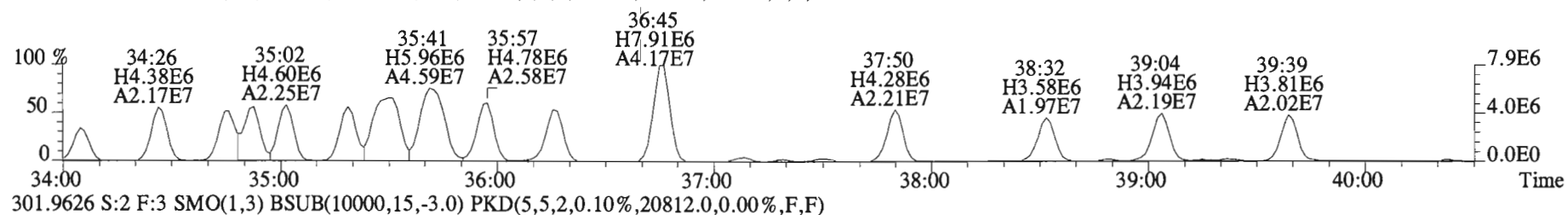
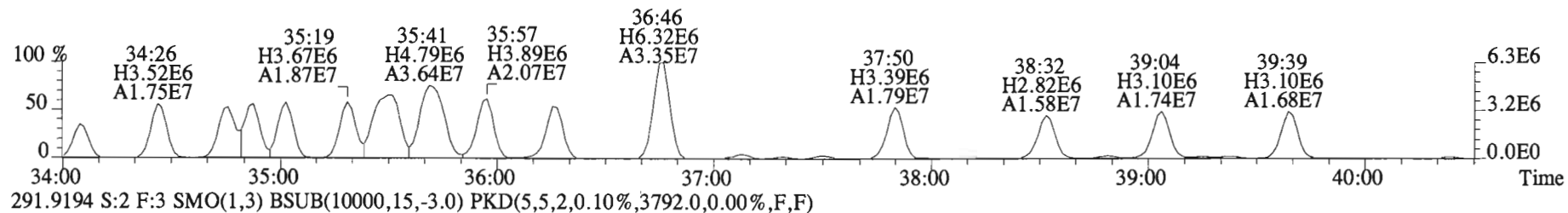
File:150226E1 #1-758 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,11968.0,0.00%,F,F)



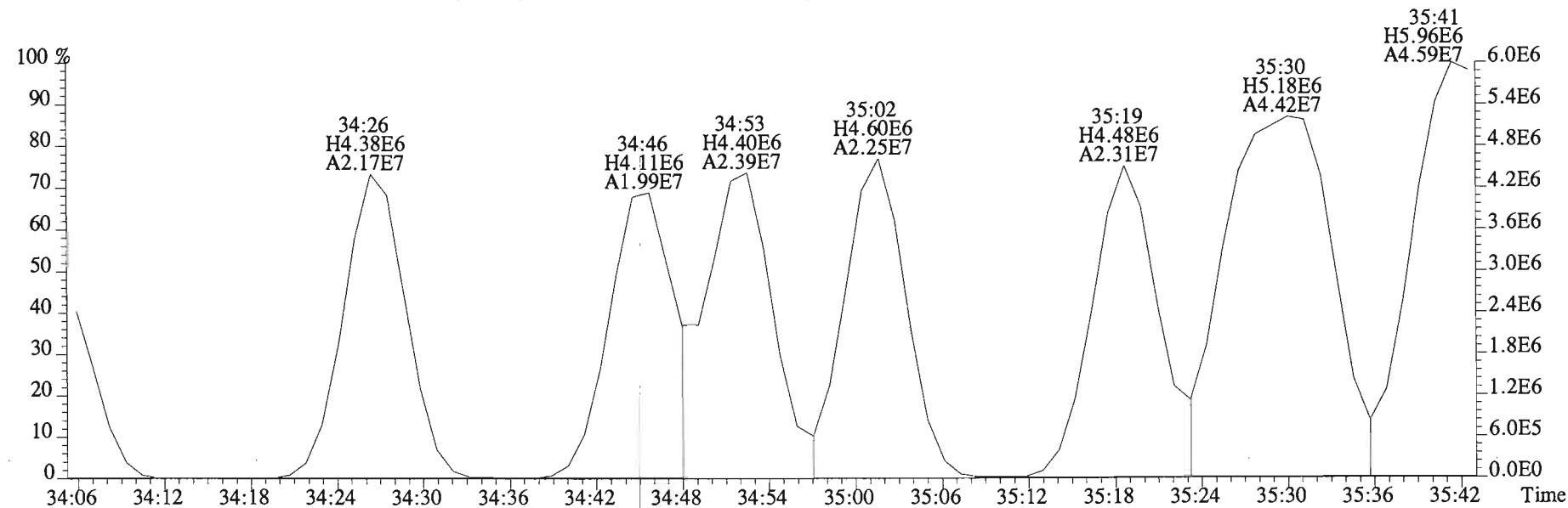
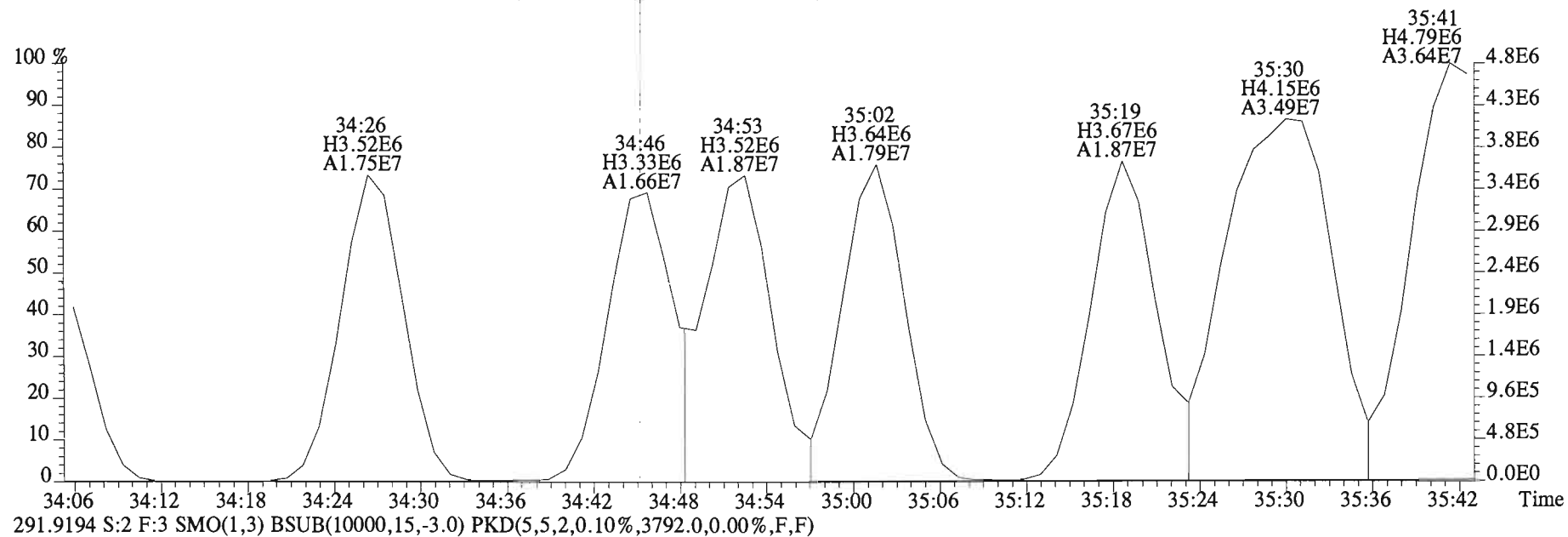
File:150226E1 #1-758 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,11968.0,0.00%,F,F)



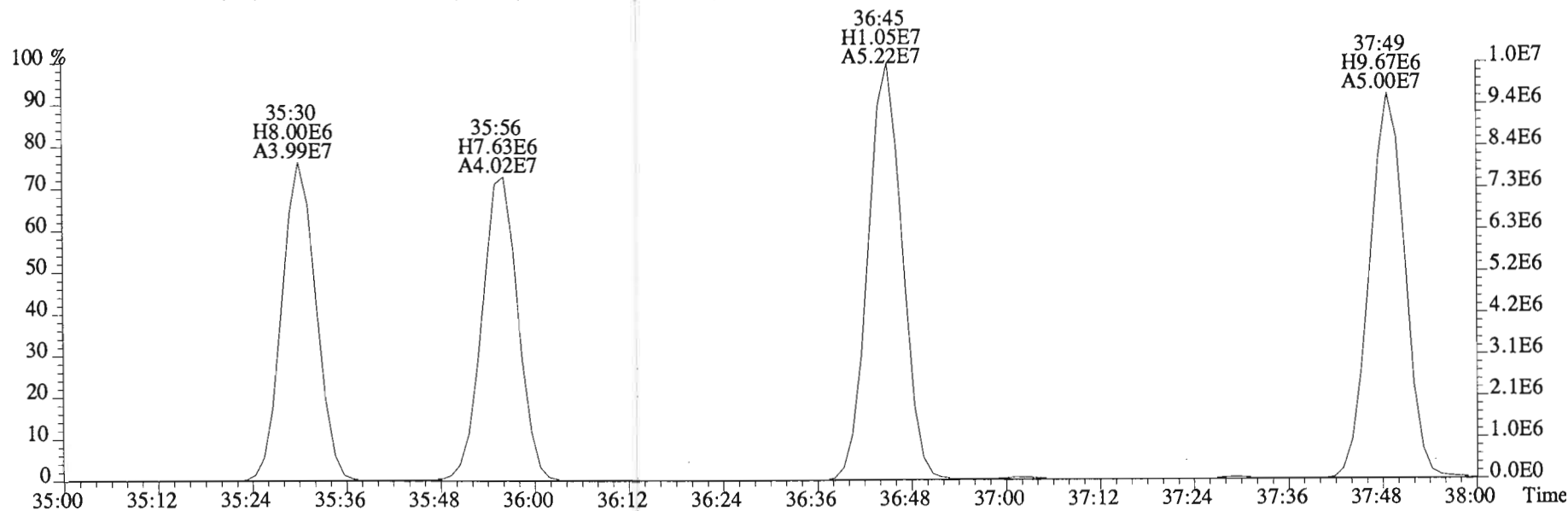
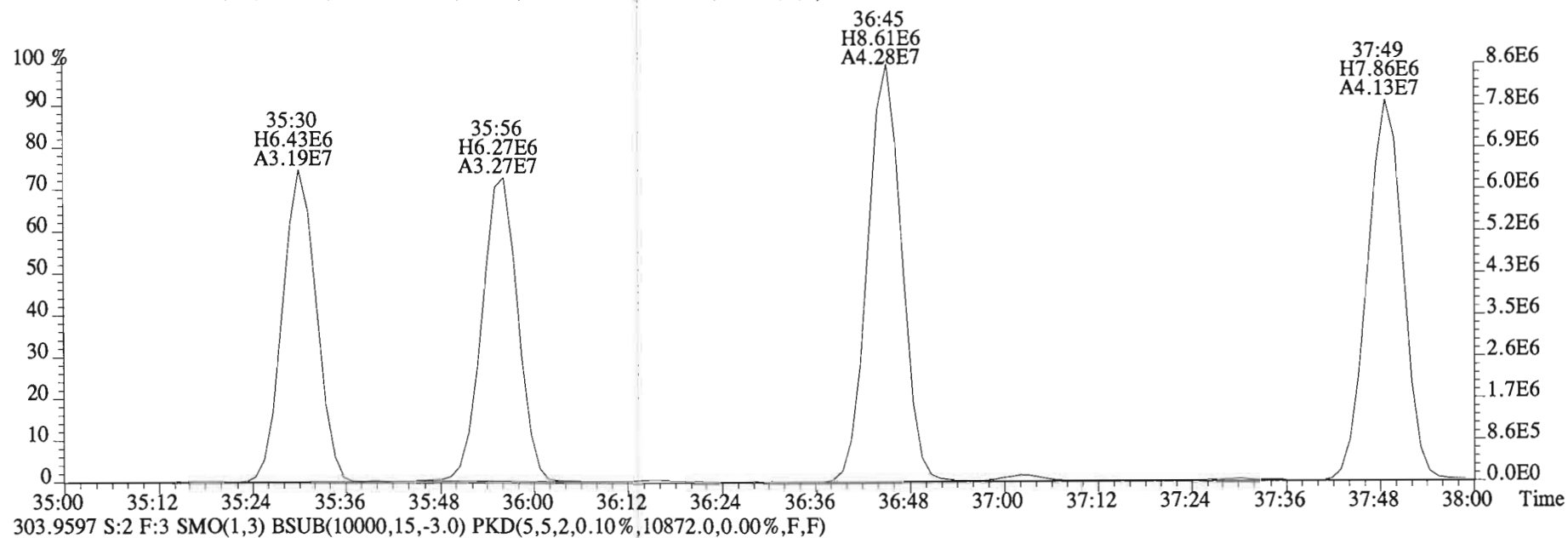
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Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
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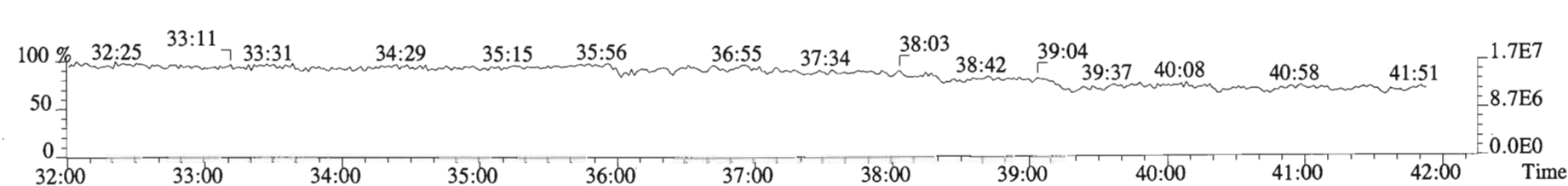
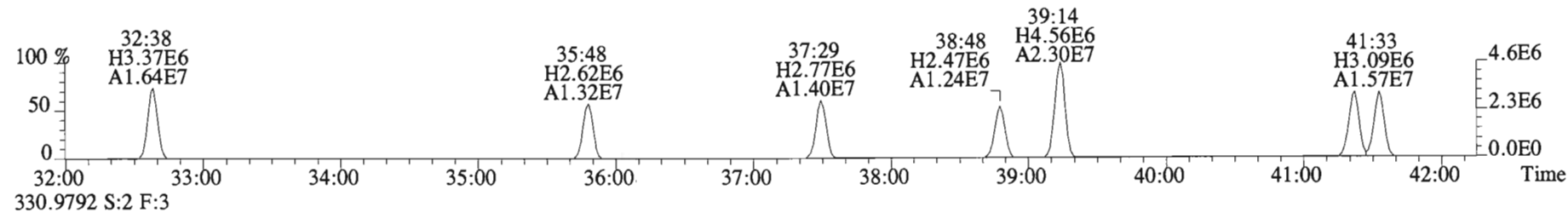
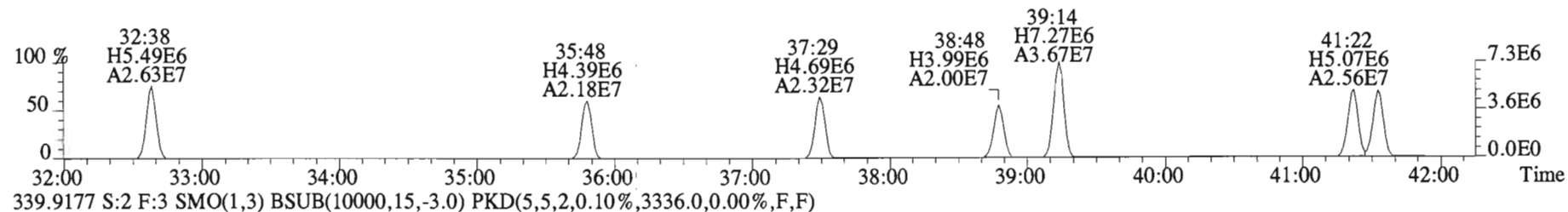
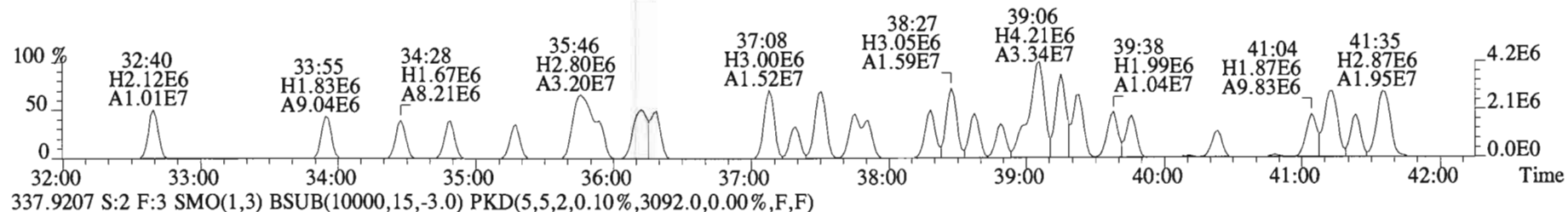
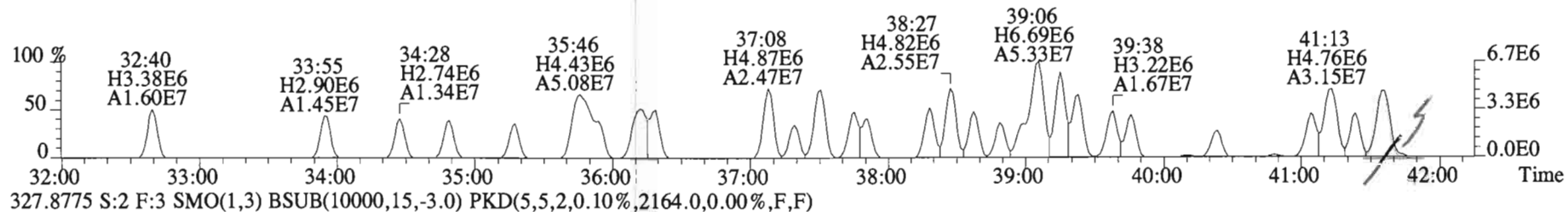
File:150226E1 #1-758 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
 289.9224 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,11968.0,0.00%,F,F)



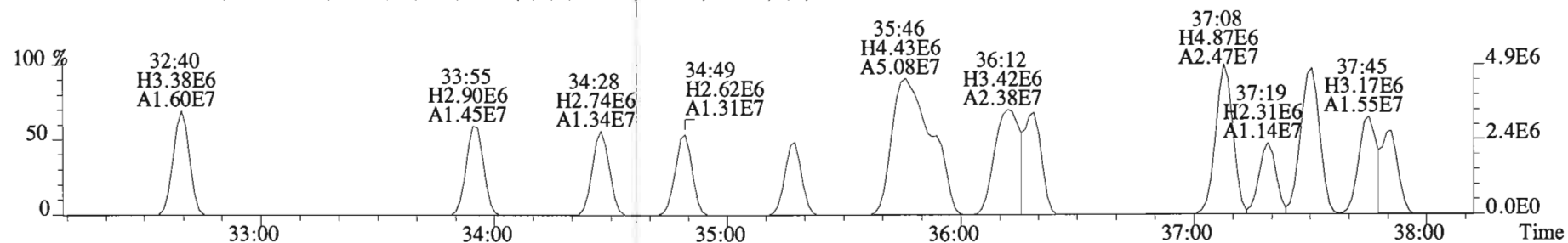
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Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
301.9626 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,20812.0,0.00%,F,F)



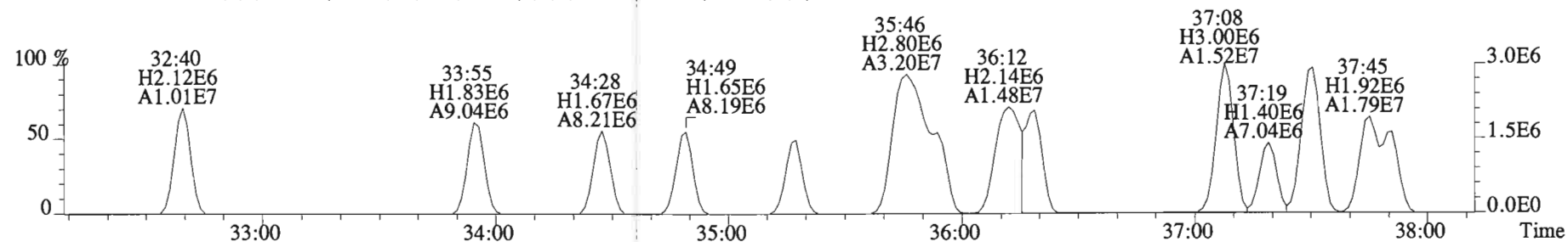
File:150226E1 #1-758 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2356.0,0.00%,F,F)



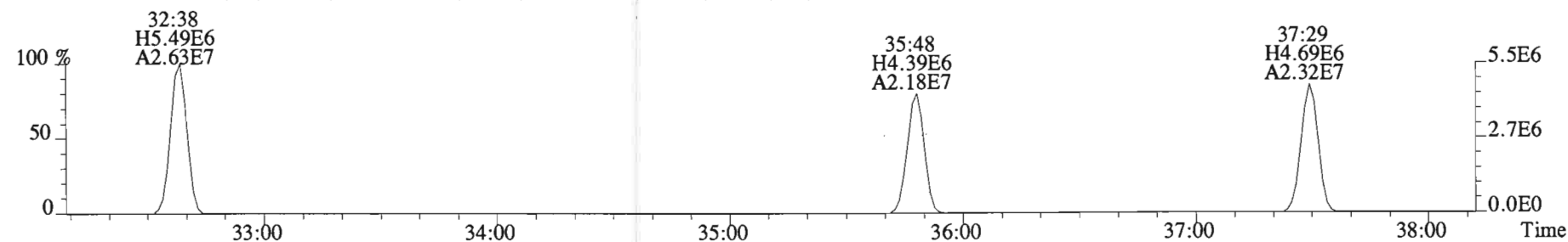
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Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2356.0,0.00%,F,F)



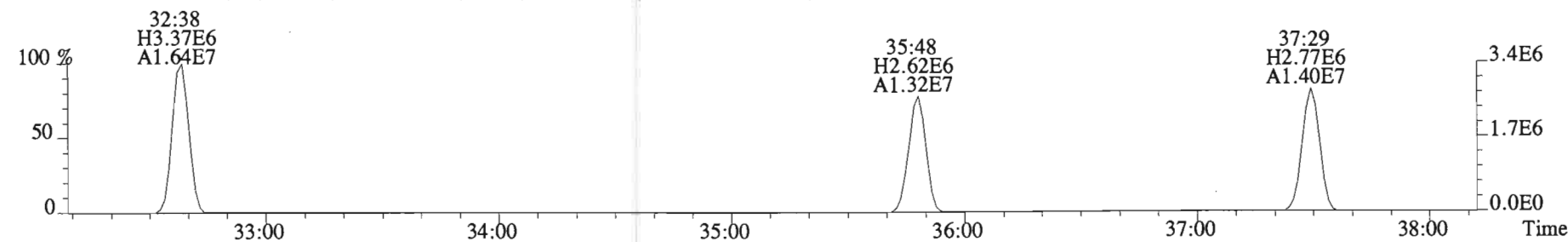
327.8775 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2164.0,0.00%,F,F)



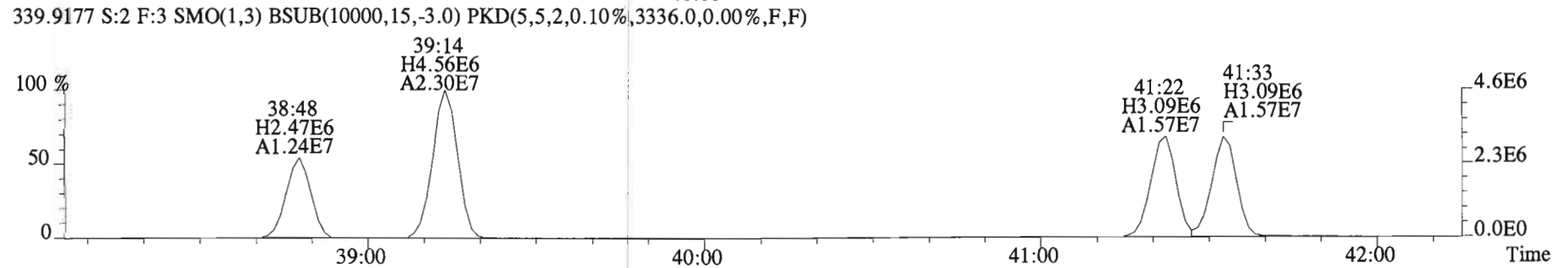
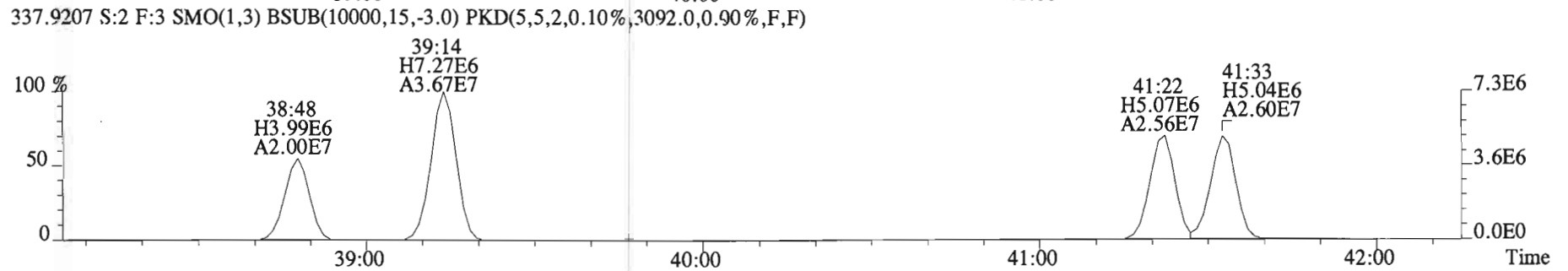
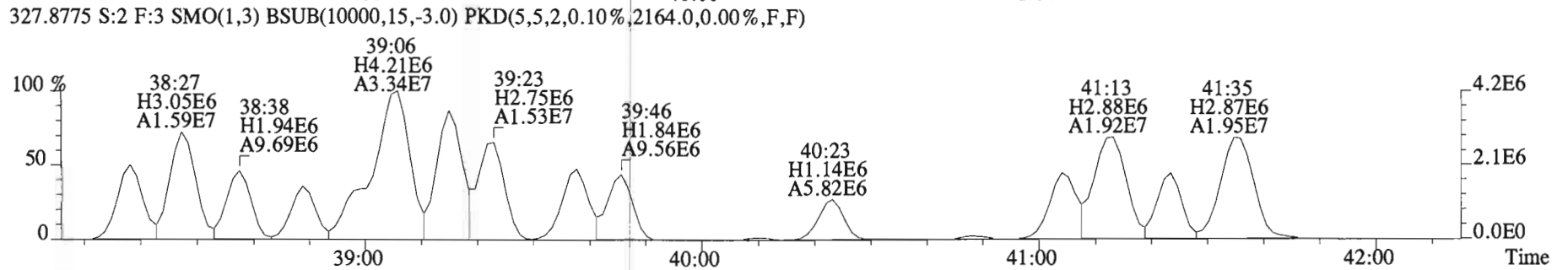
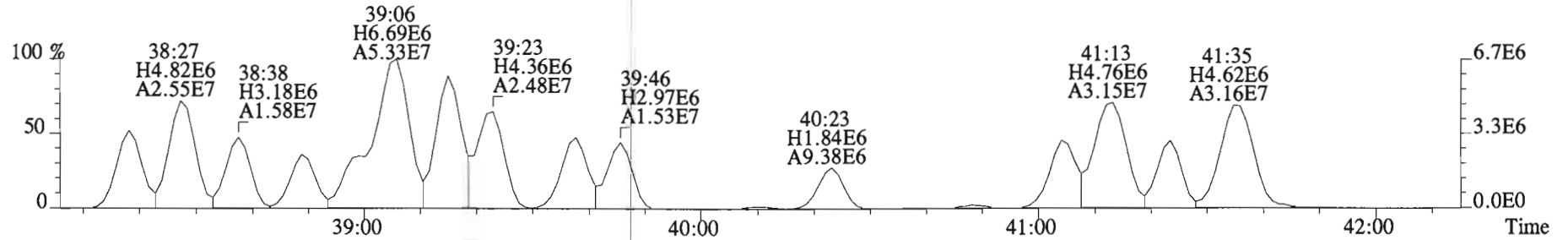
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3092.0,0.00%,F,F)



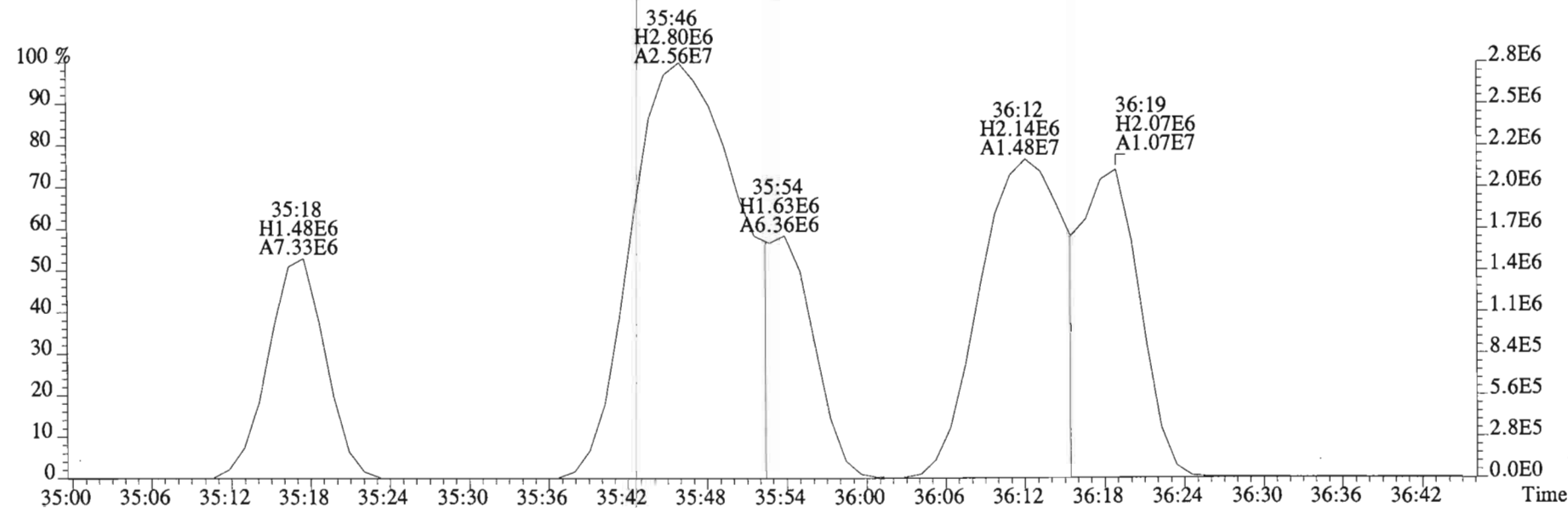
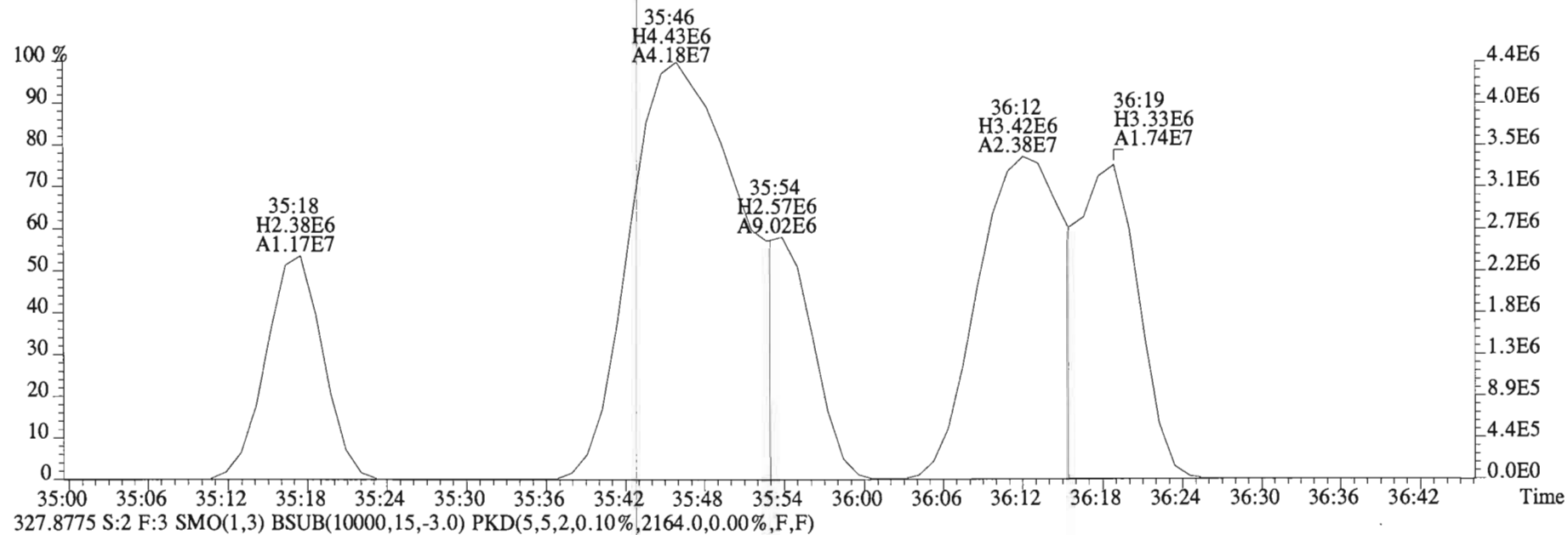
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3336.0,0.00%,F,F)



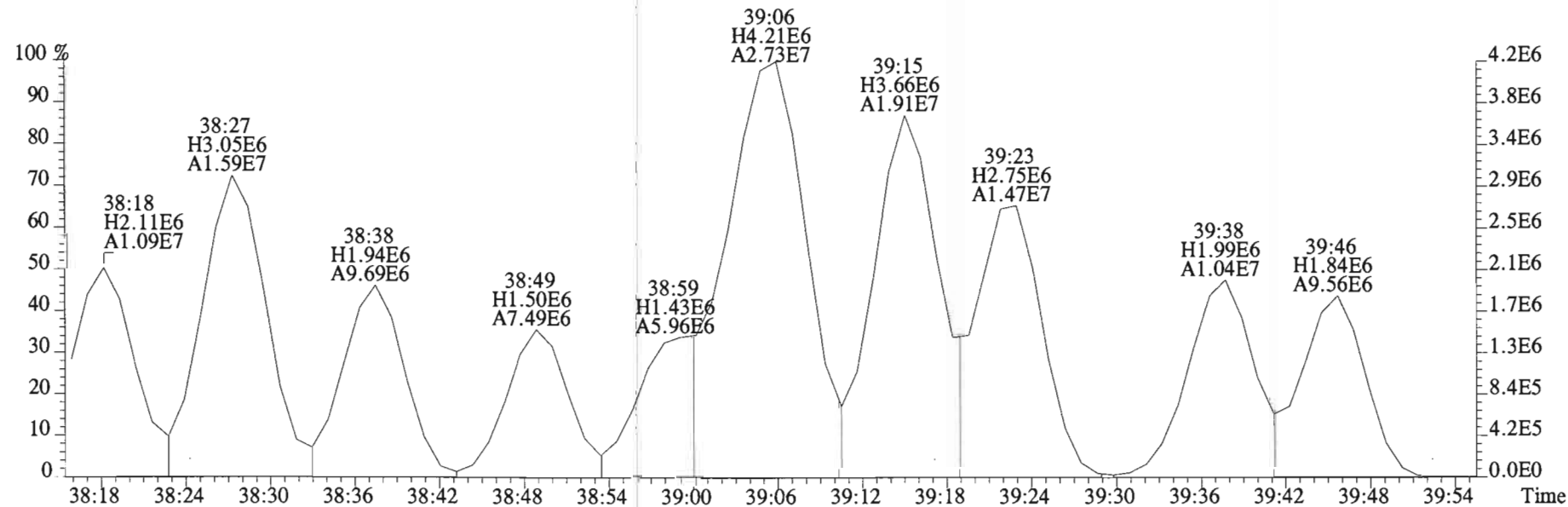
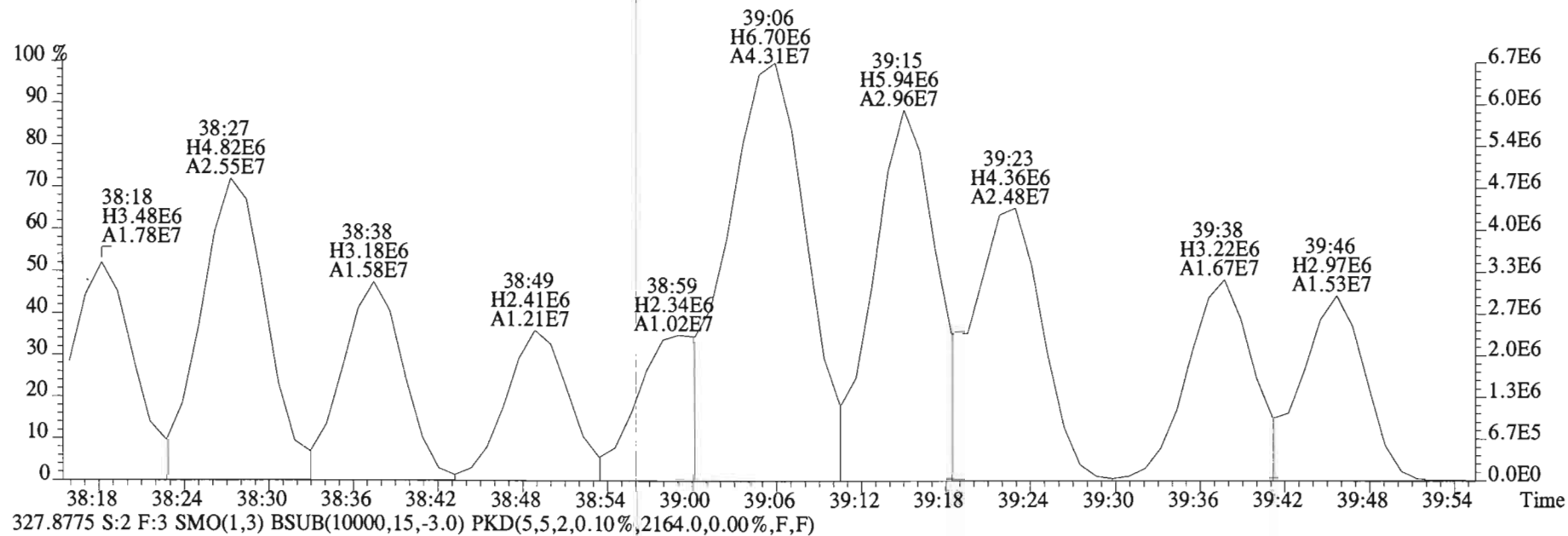
File:150226E1 #1-758 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2356.0,0.00%,F,F)



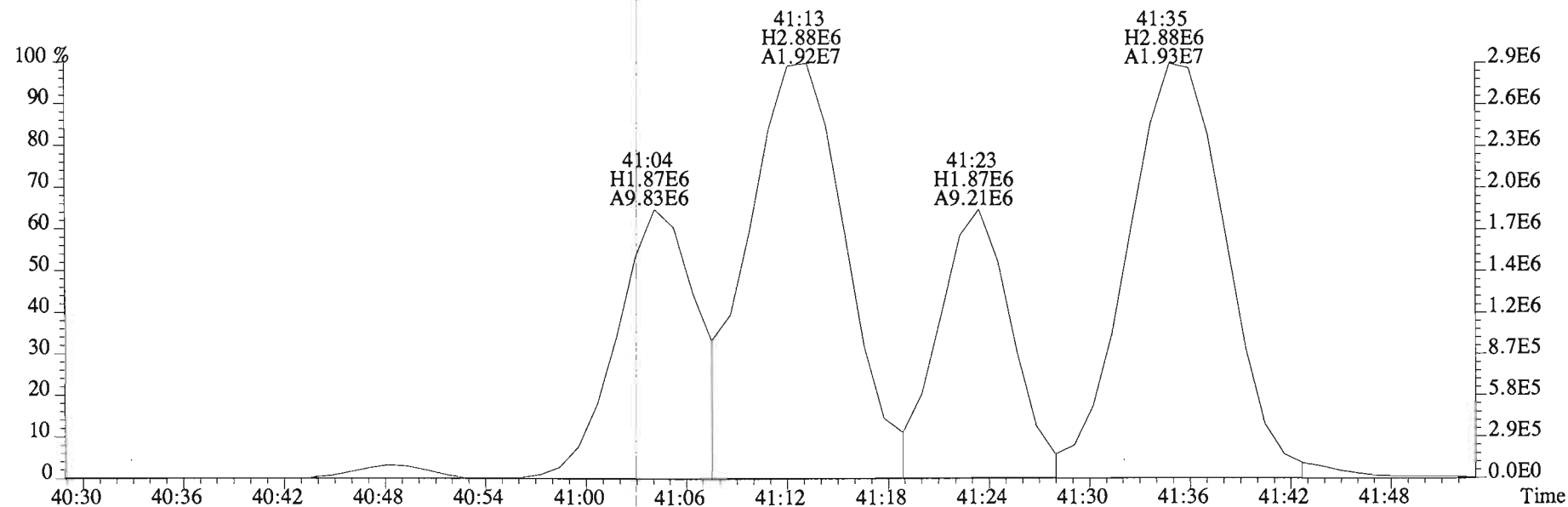
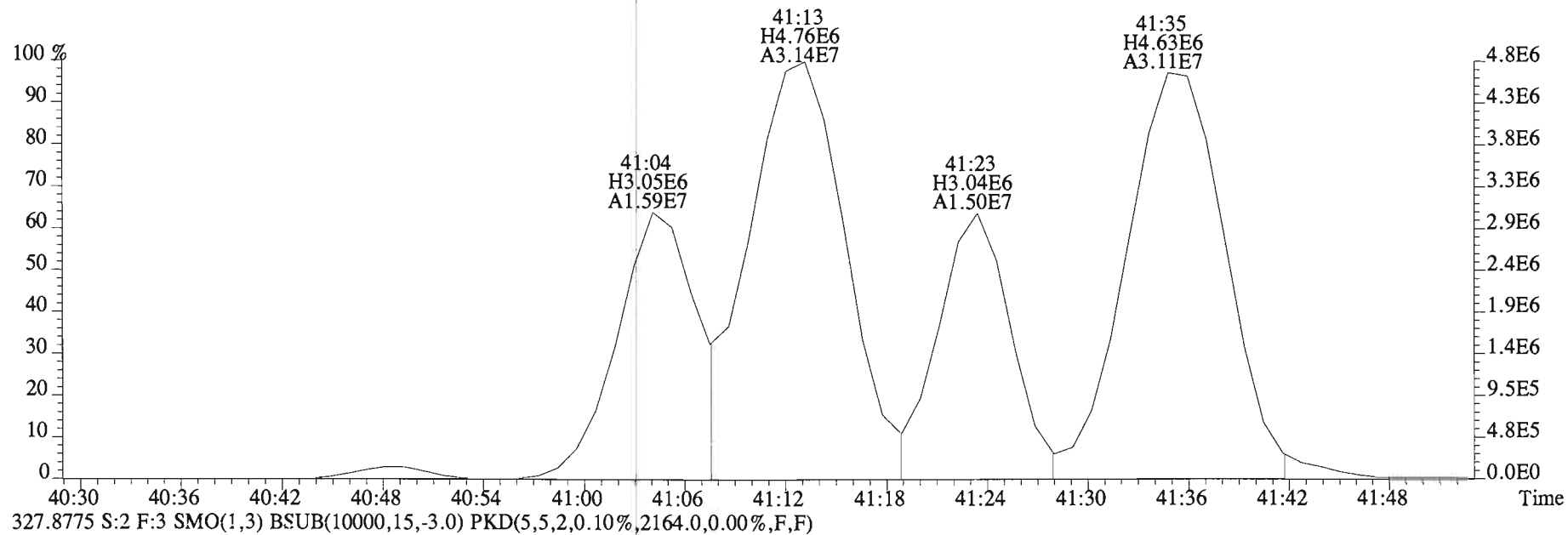
File:150226E1 #1-758 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2356.0,0.00%,F,F)



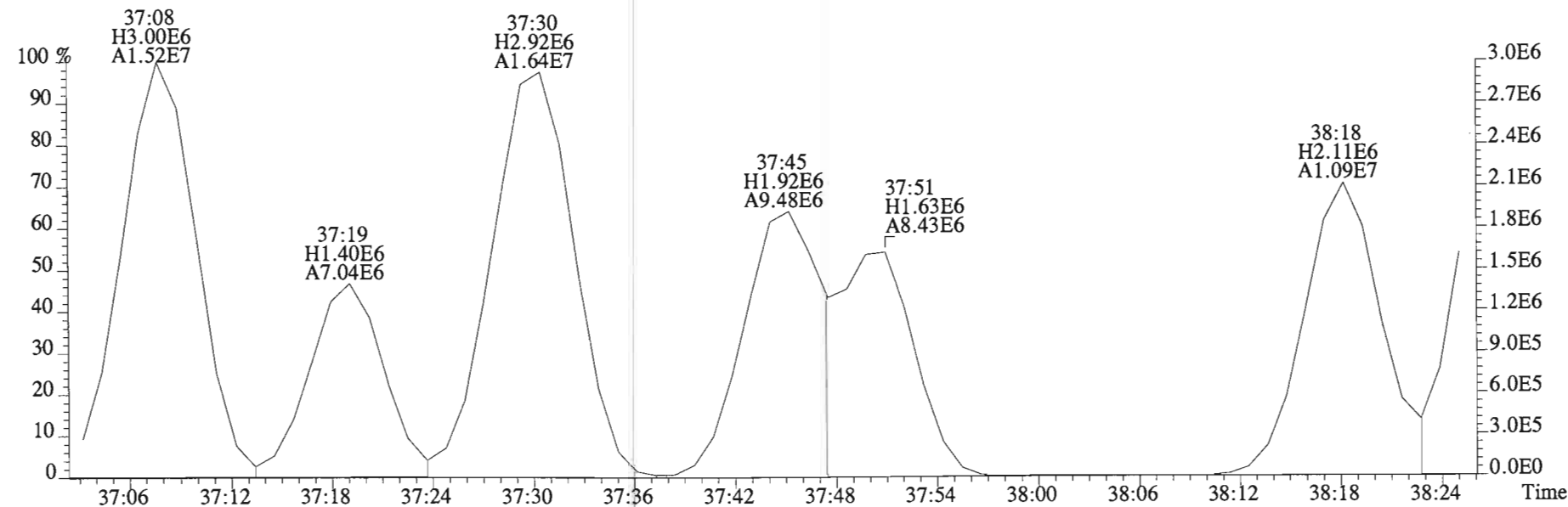
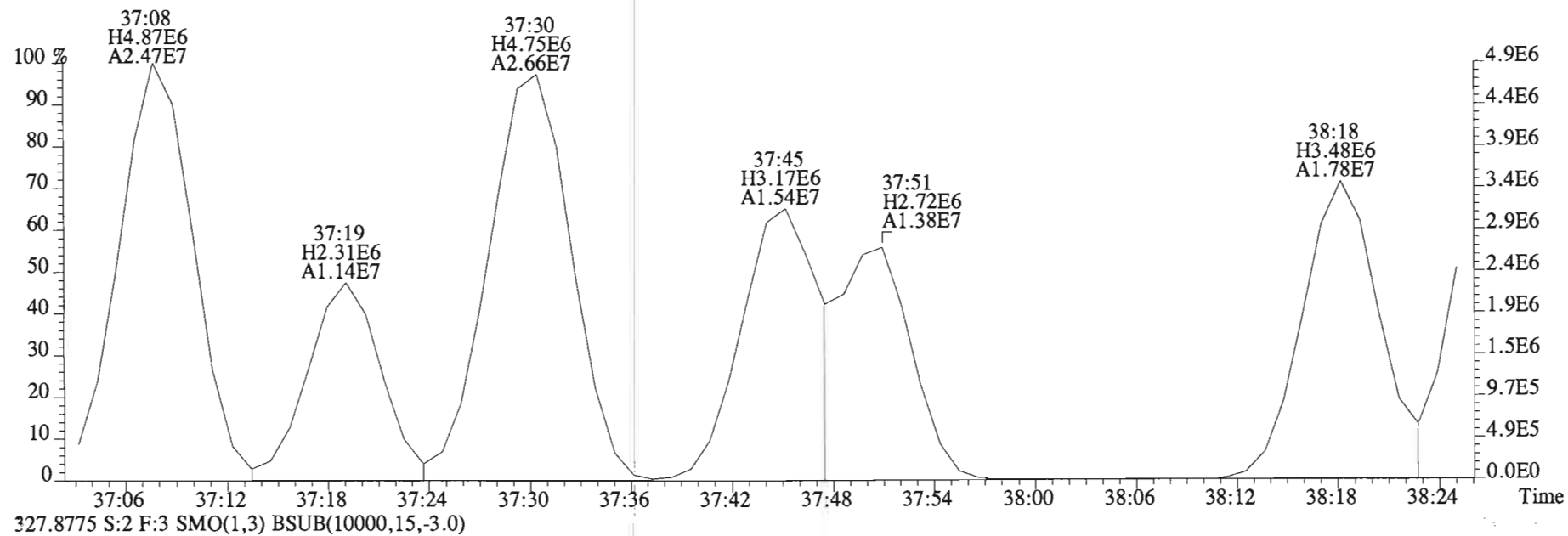
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 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:BSB0085-BS1 OPR 1 Exp:PCB_ZB1
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2356.0,0.00%,F,F)



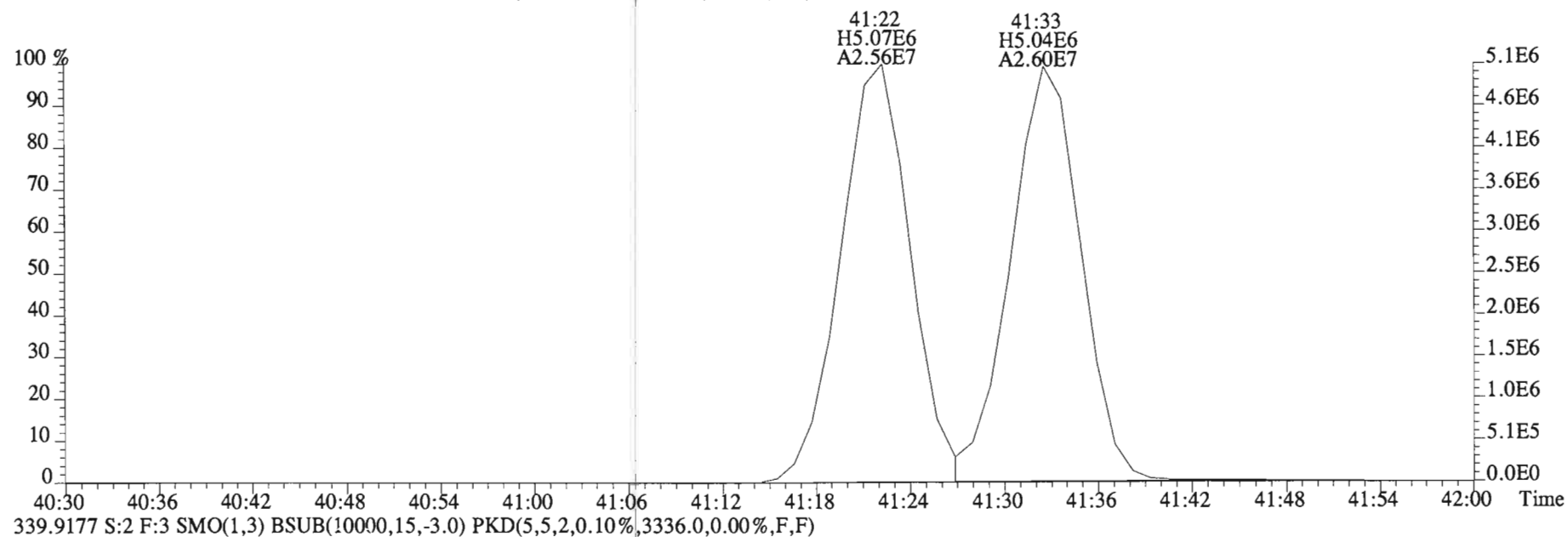
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Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2356.0,0.00%,F,F)



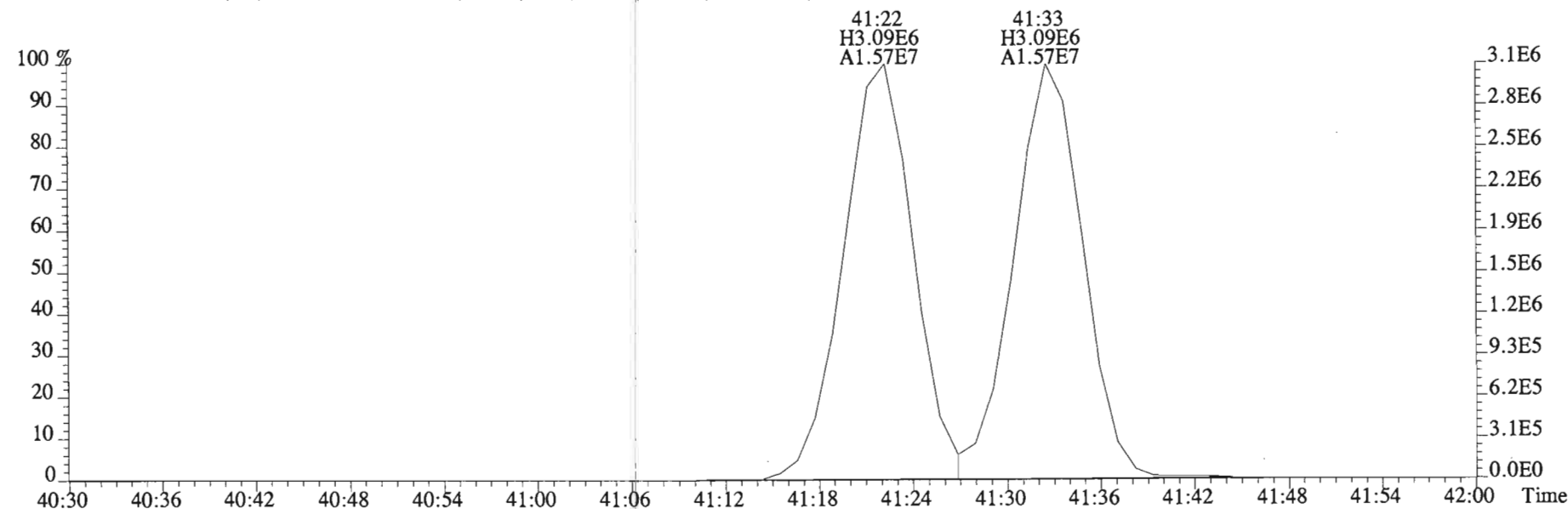
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 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
 325.8804 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0)



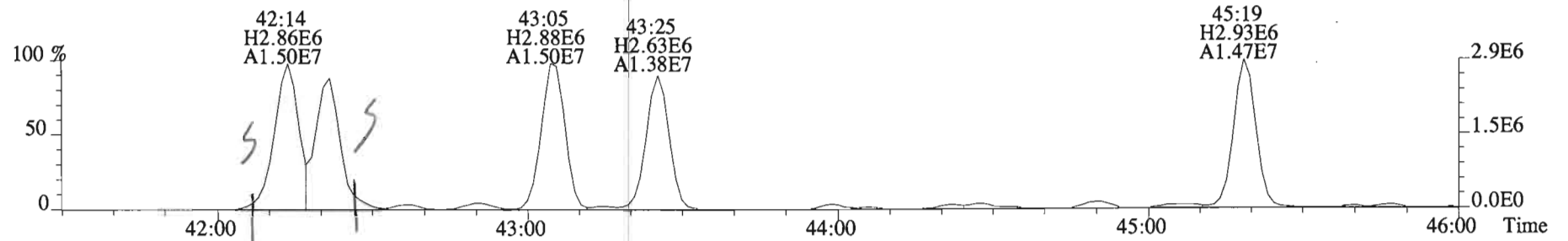
File:150226E1 #1-758 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
337.9207 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3092.0,0.00%,F,F)



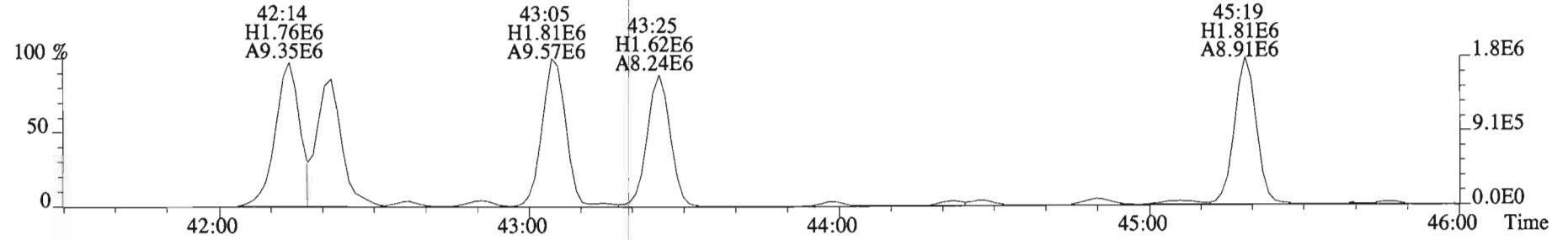
339.9177 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3336.0,0.00%,F,F)



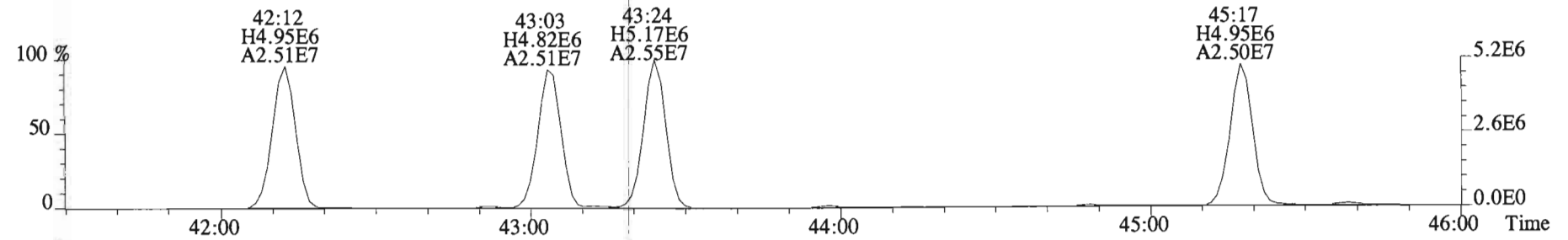
File:150226E1 #1-555 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory VG-8 Text:BSB0085-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4428.0,0.00%,F,F)



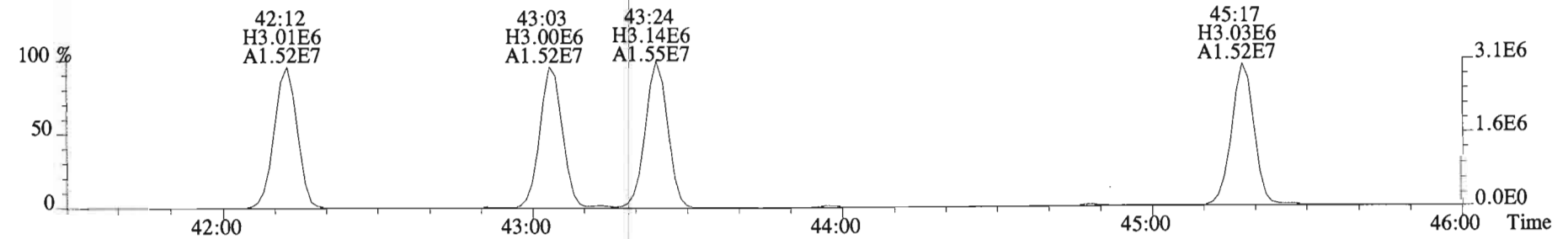
327.8775 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2848.0,0.00%,F,F)



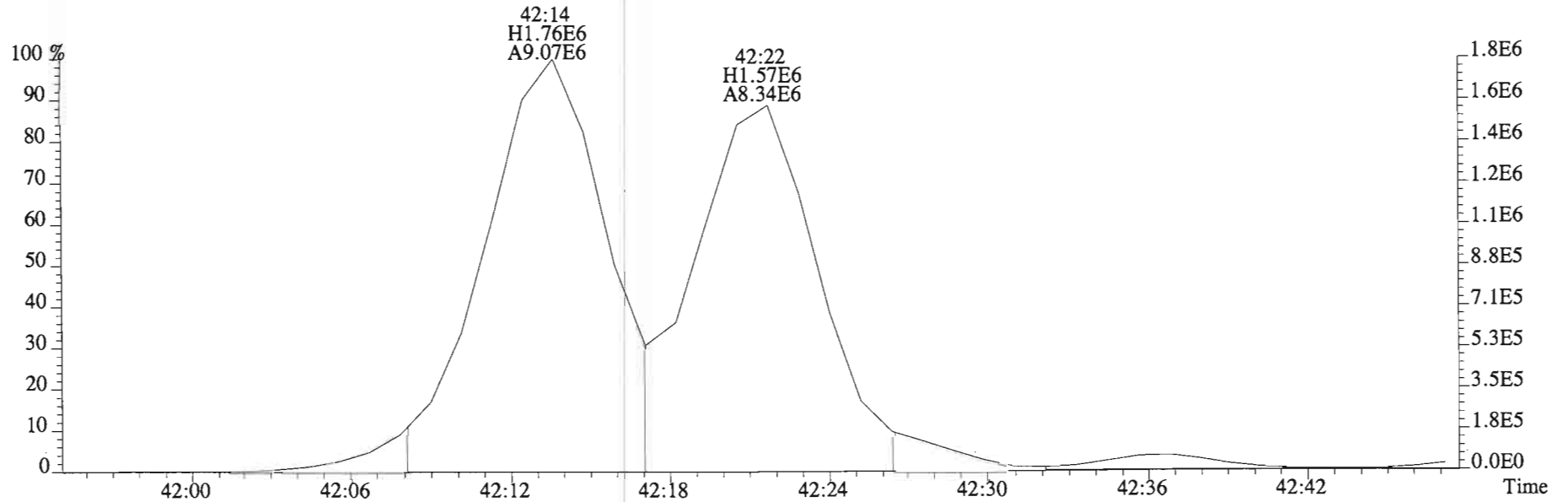
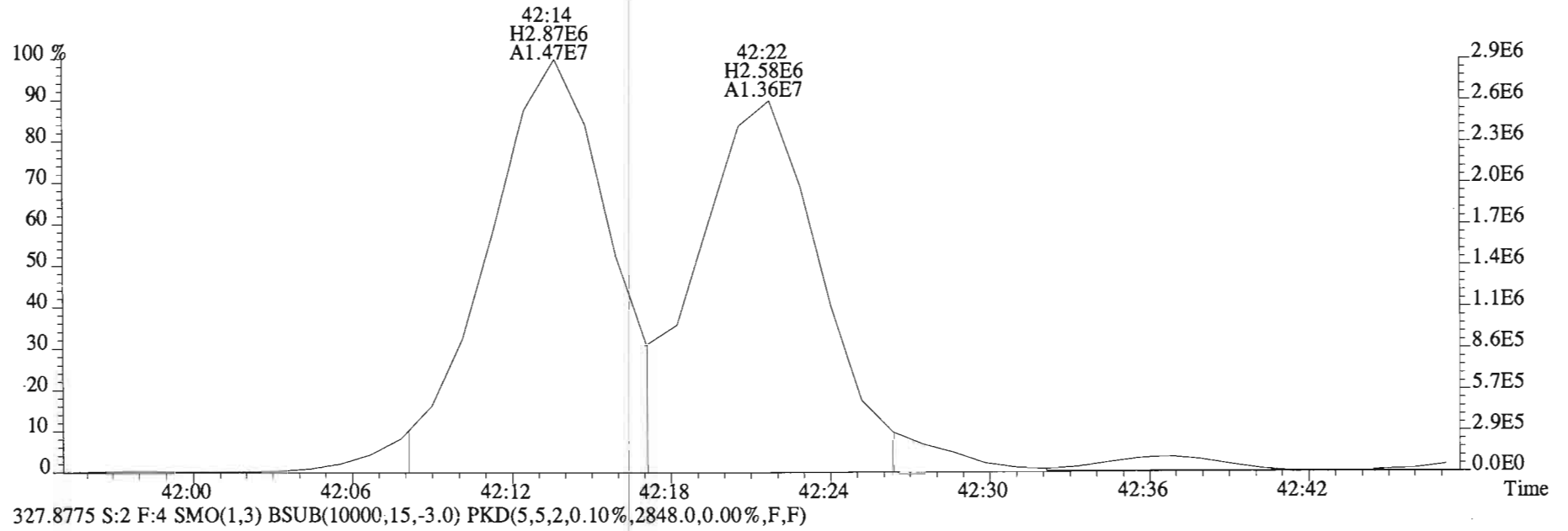
337.9207 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4704.0,0.00%,F,F)



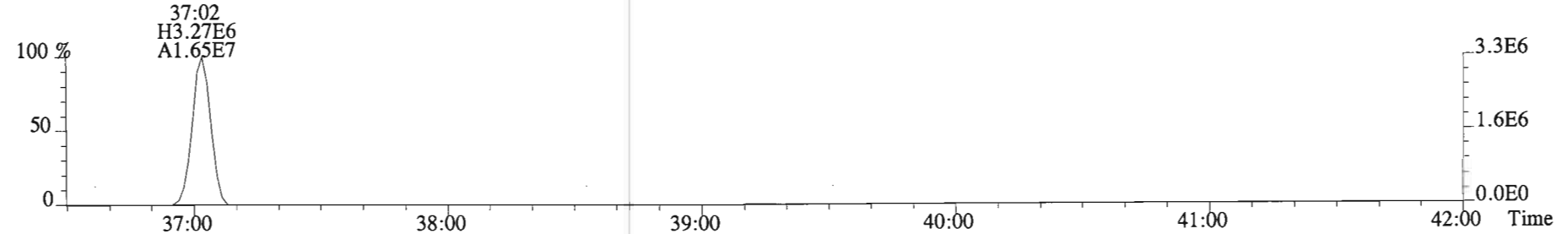
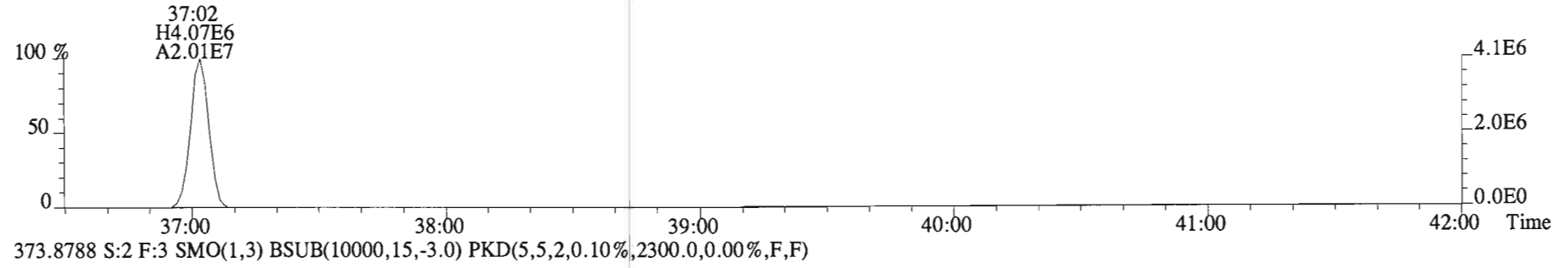
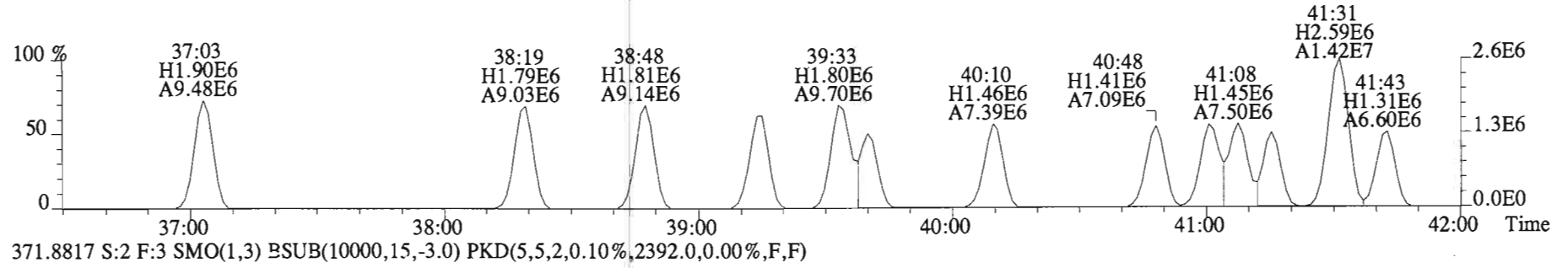
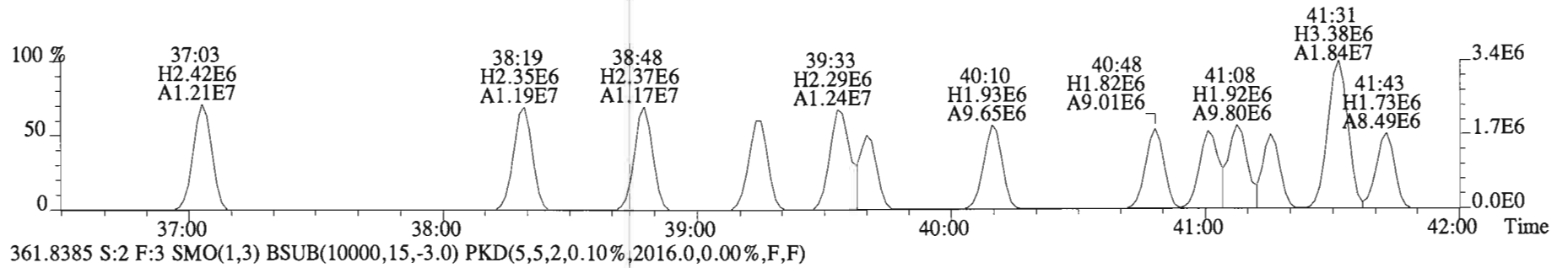
339.9177 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4068.0,0.00%,F,F)



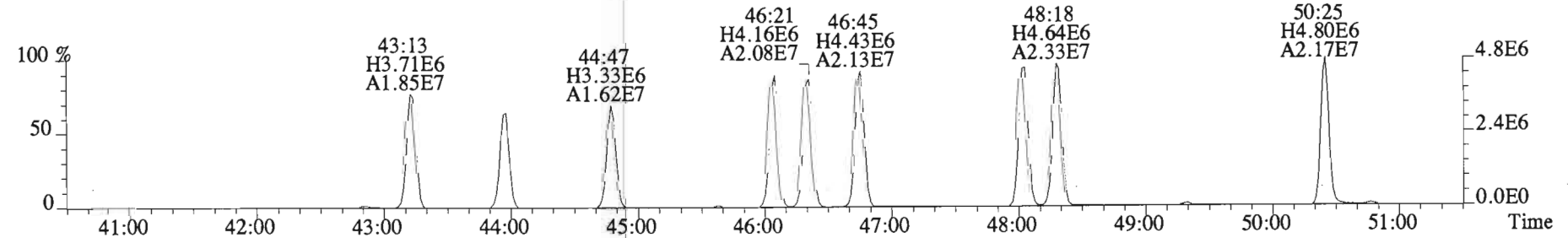
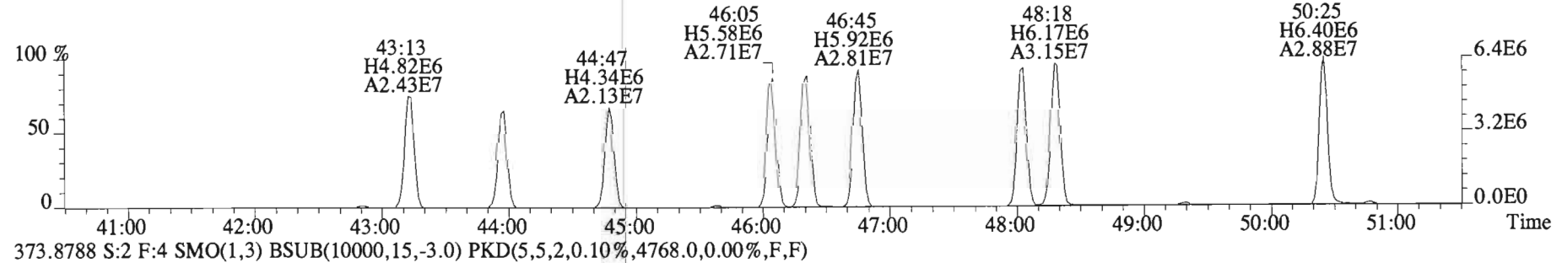
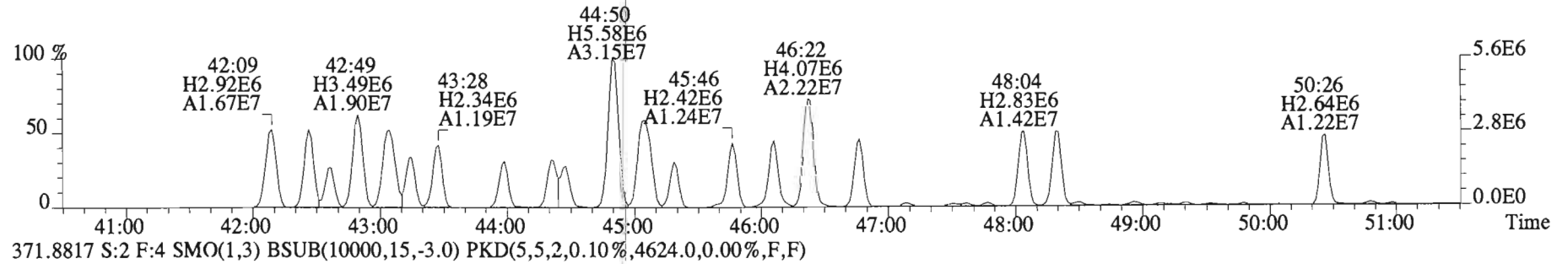
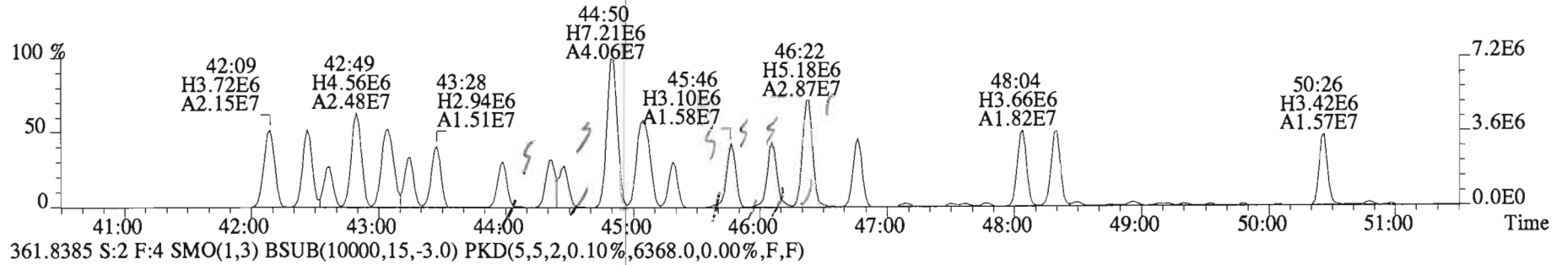
File:150226E1 #1-555 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
325.8804 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4428.0,0.00%,F,F)



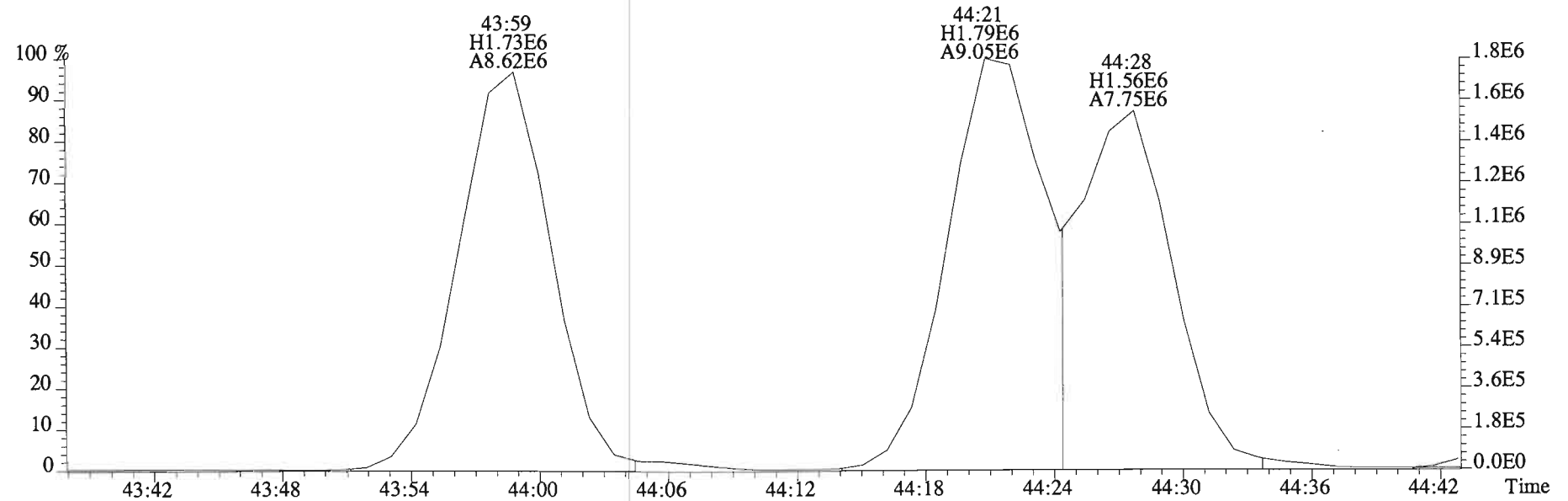
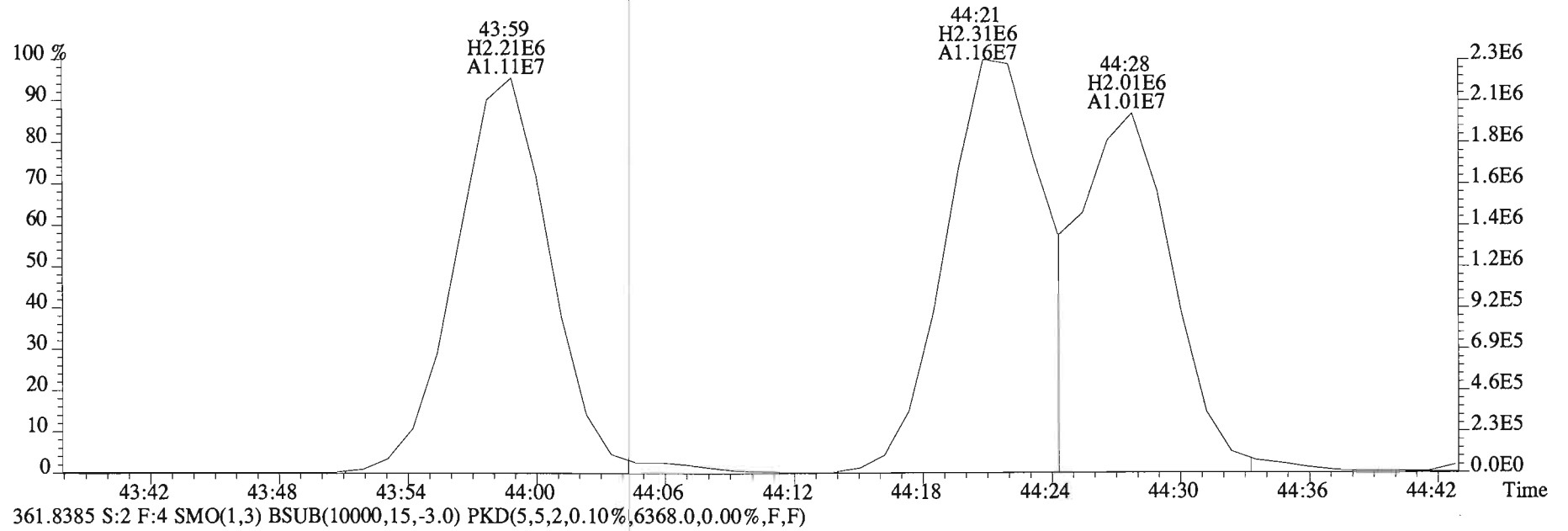
File:150226E1 #1-758 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:2 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1892.0,0.00%,F,F)



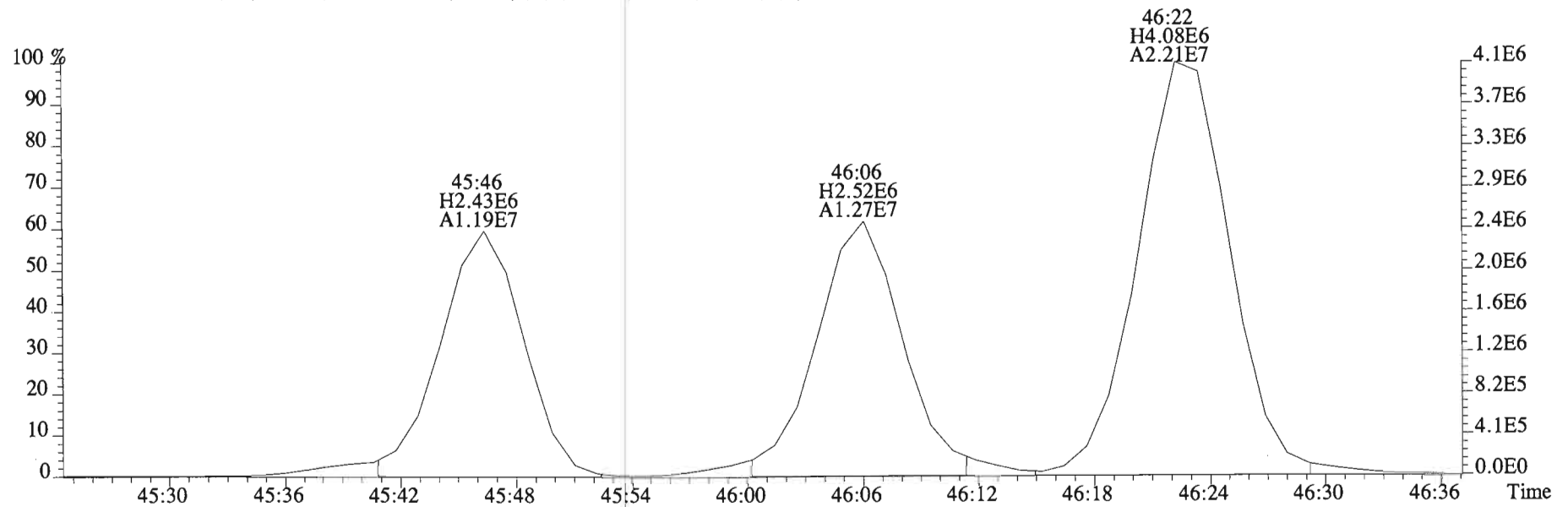
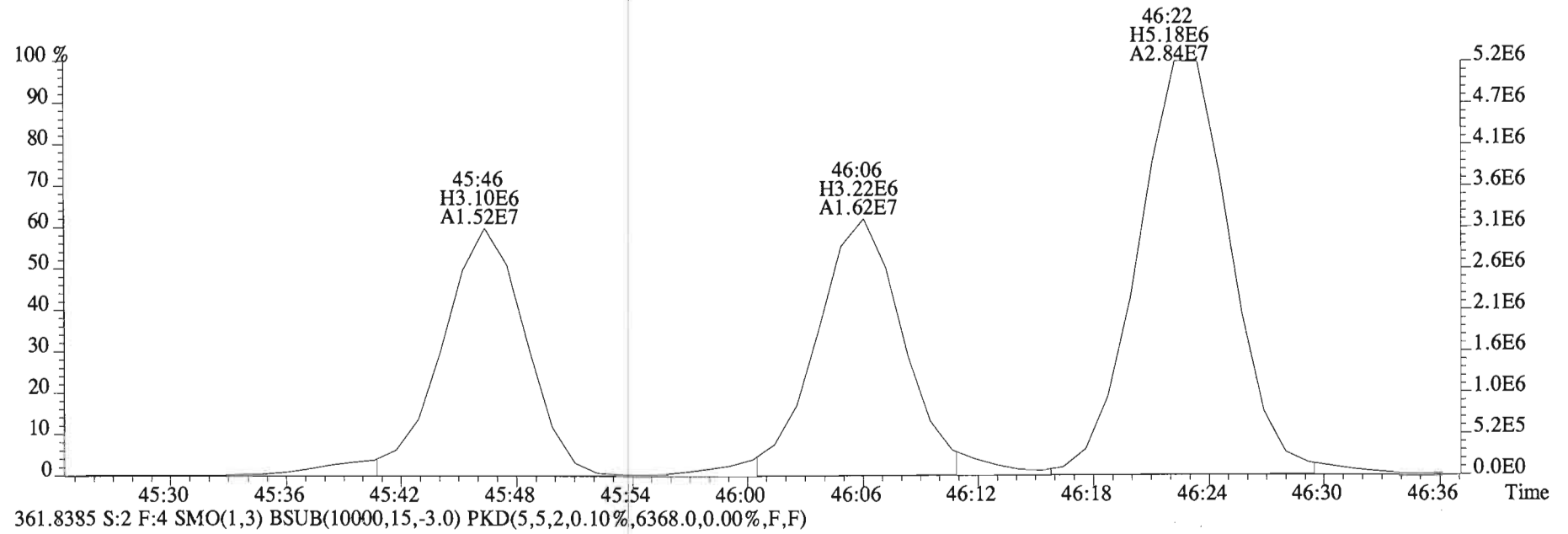
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Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,7488.0,0.00%,F,F)



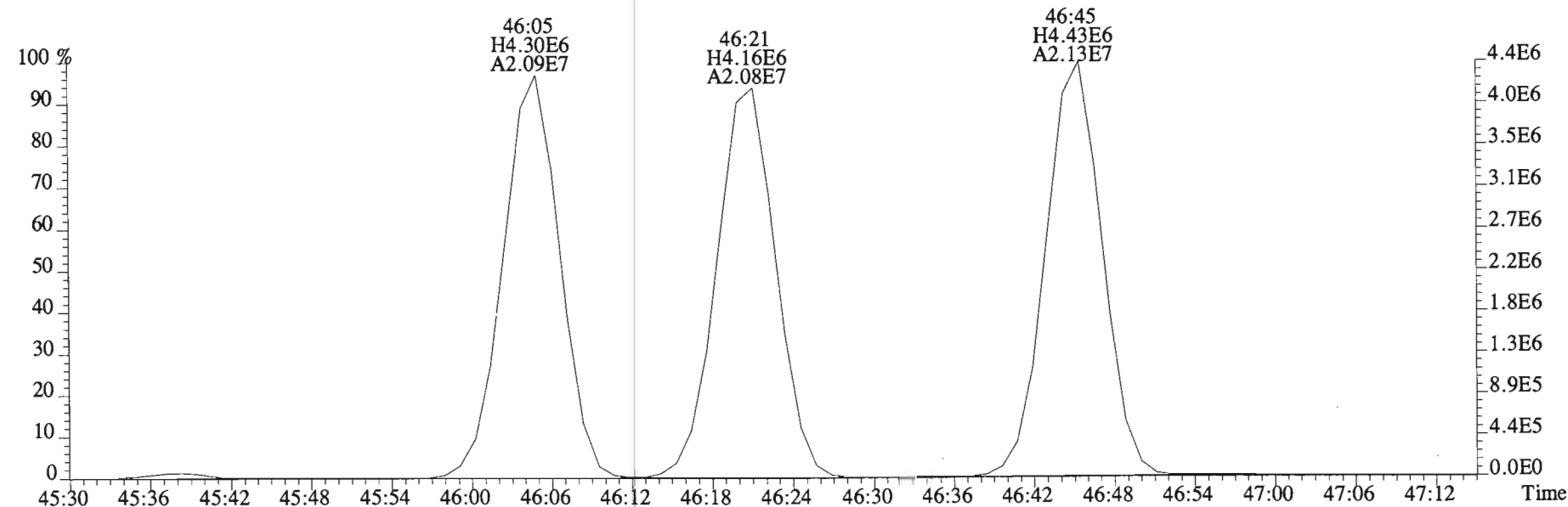
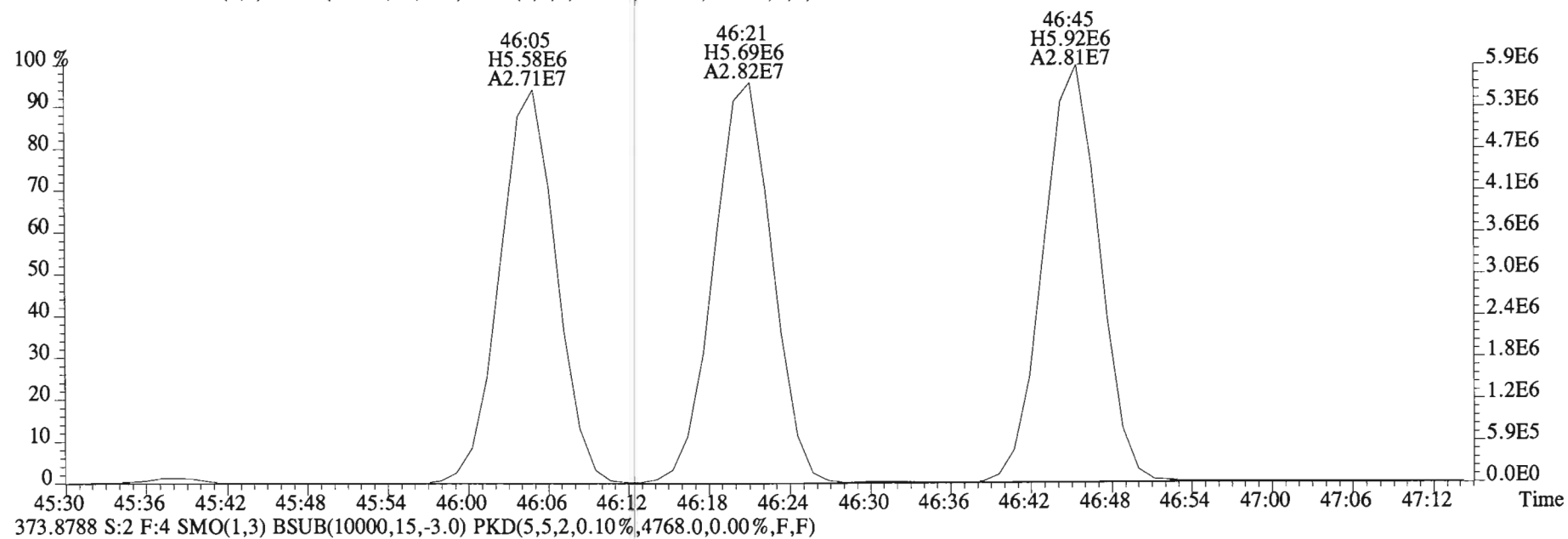
File:150226E1 #1-555 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSM(10000,15,-3.0) PKD(5,5,2,0.10%,7488.0,0.00%,F,F)



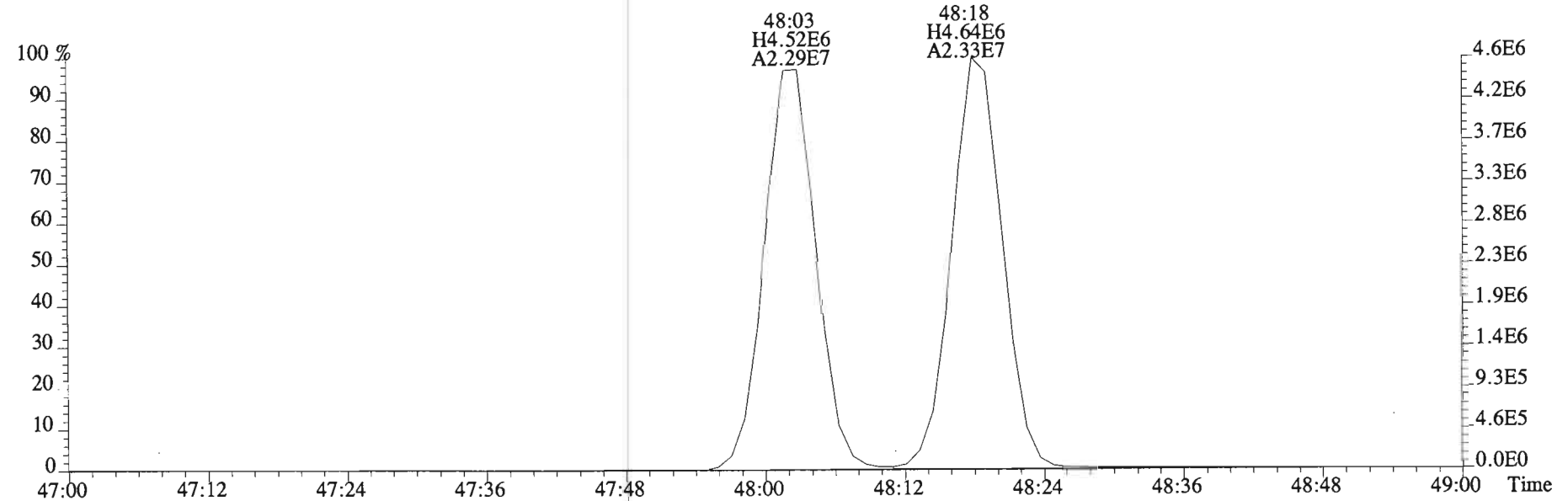
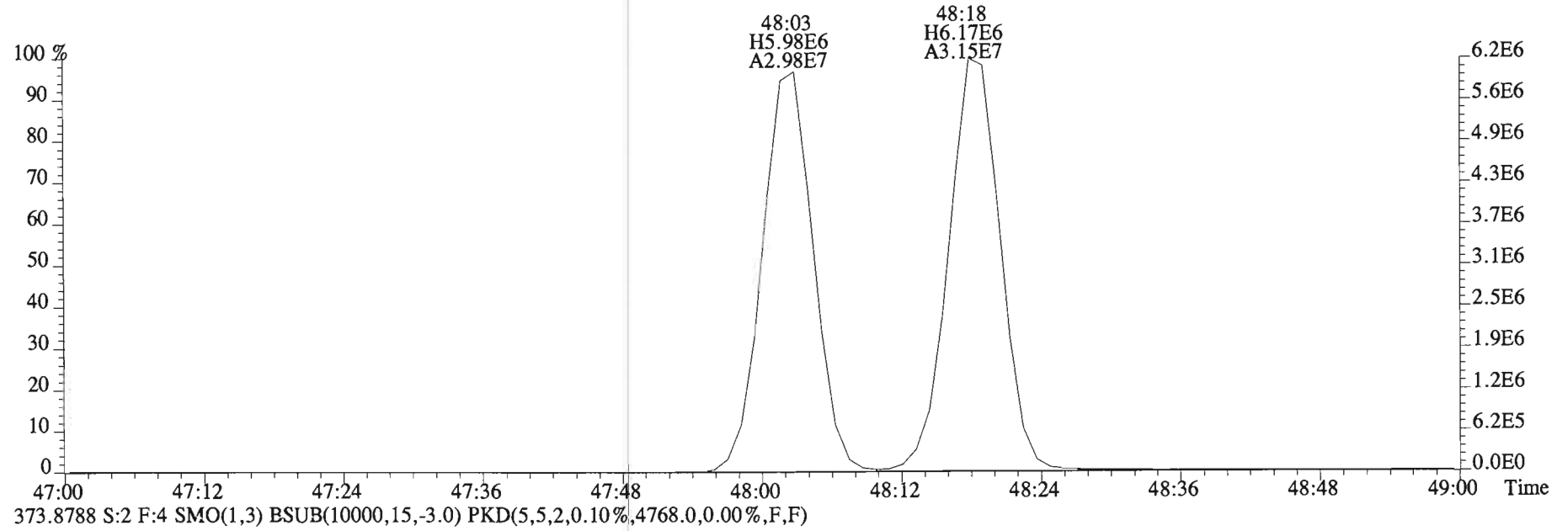
File:150226E1 #1-555 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
359.8415 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,7488.0,0.00%,F,F)



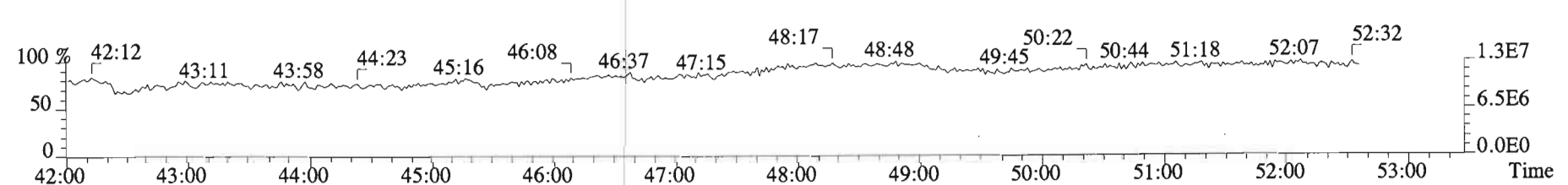
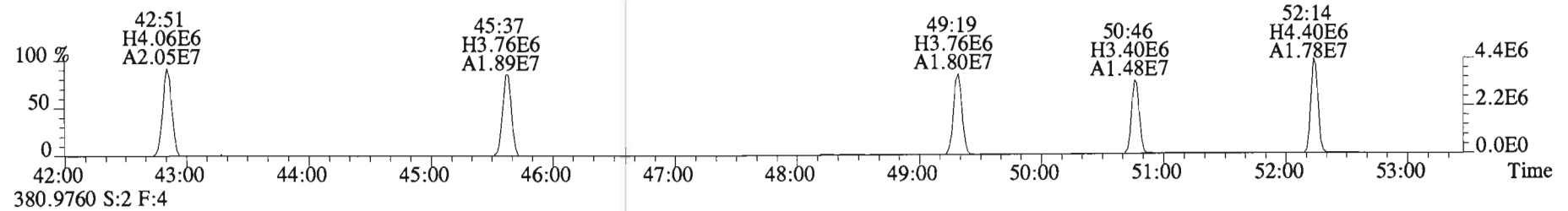
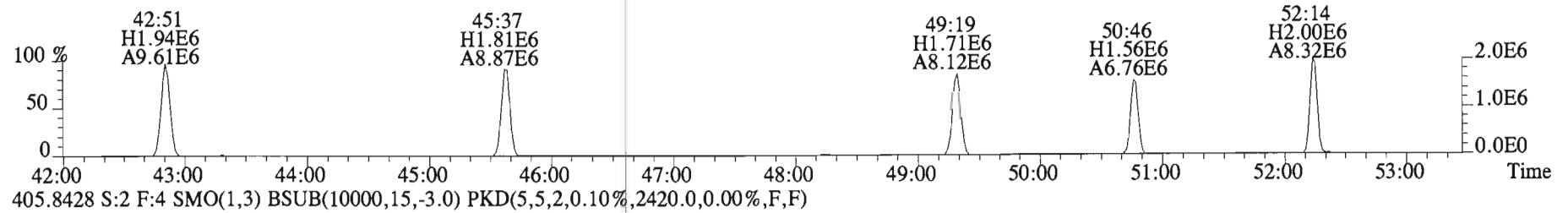
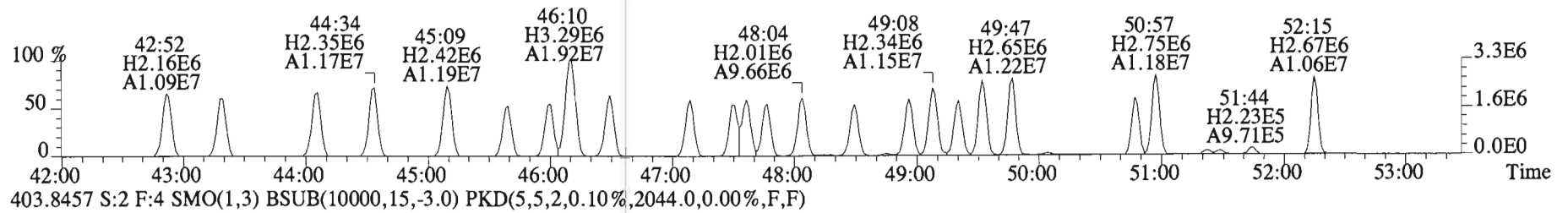
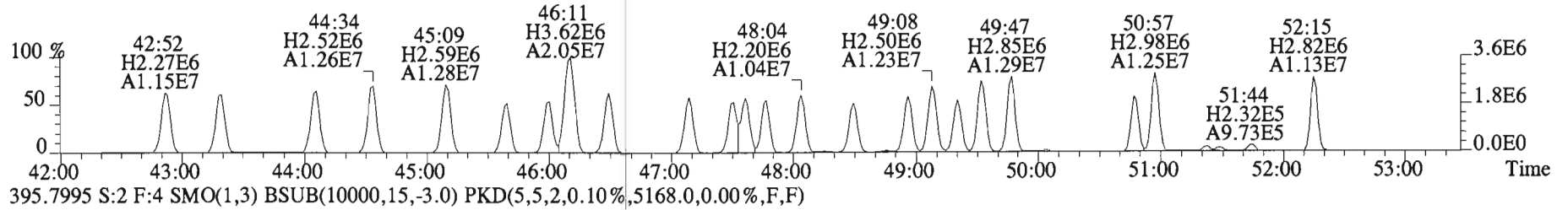
File:150226E1 #1-555 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4624.0,0.00%,F,F)



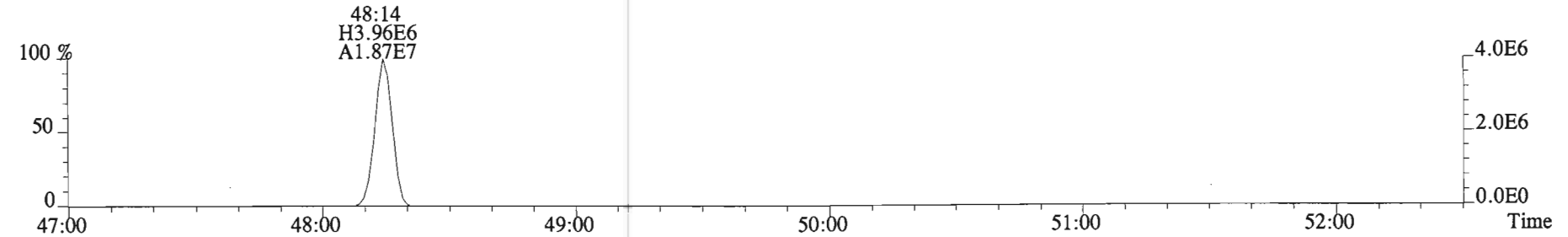
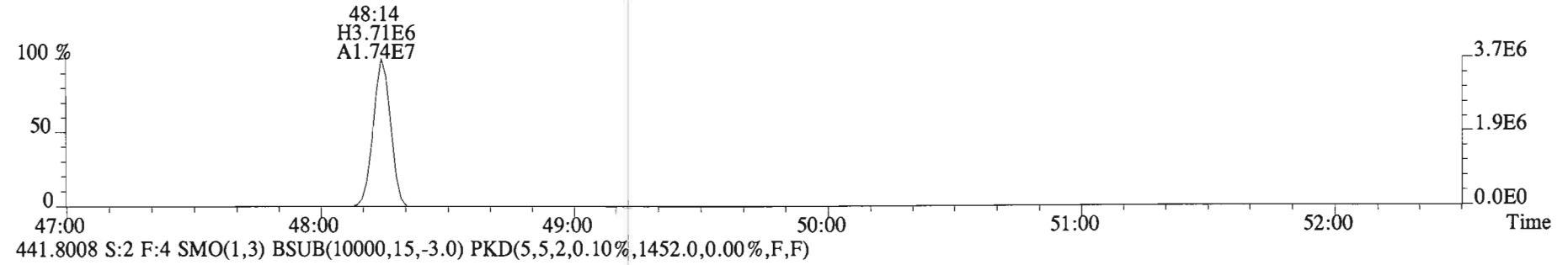
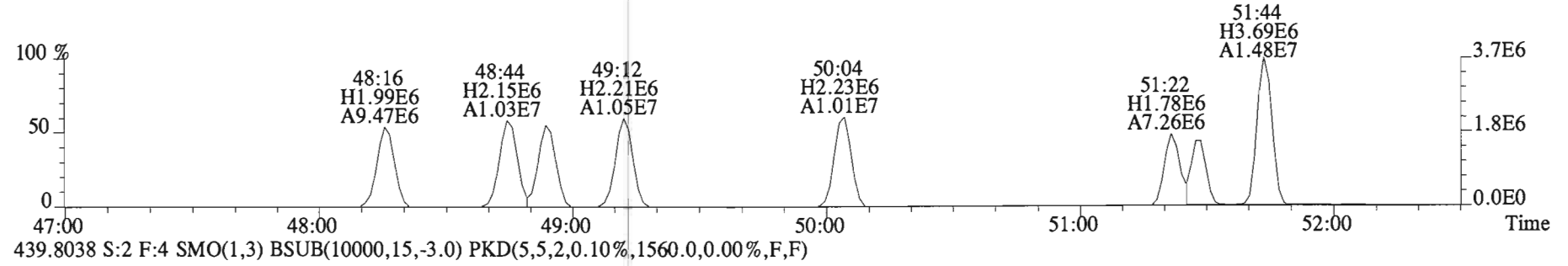
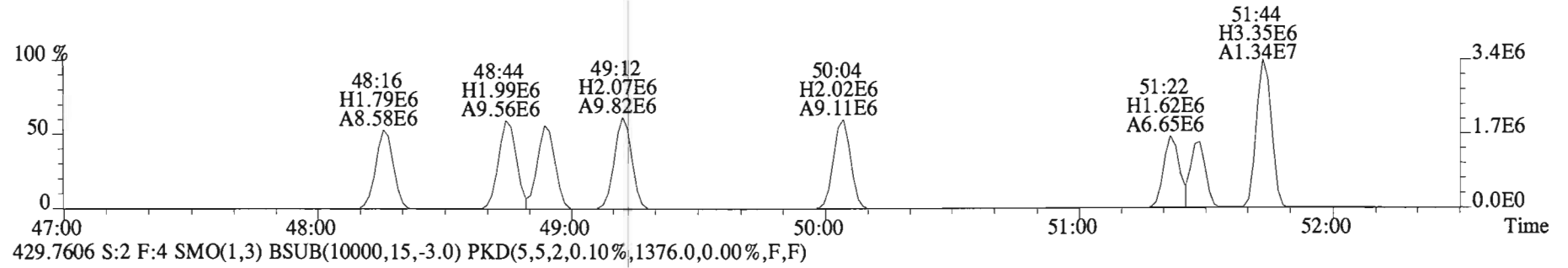
File:150226E1 #1-555 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
371.8817 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,4624.0,0.00%,F,F)



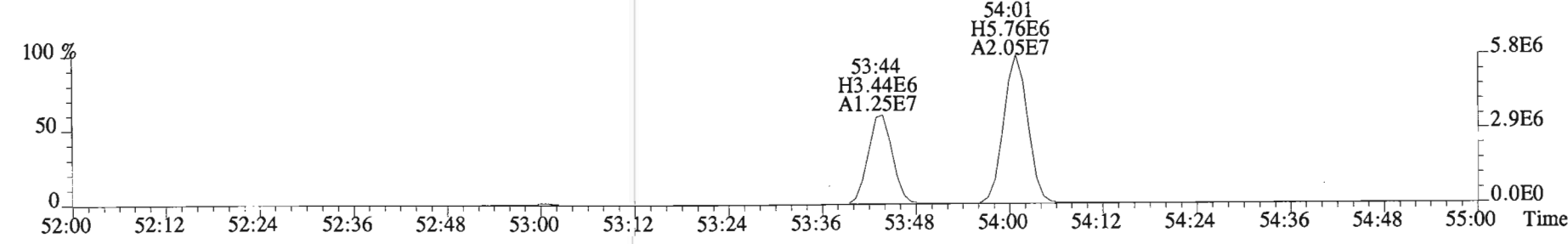
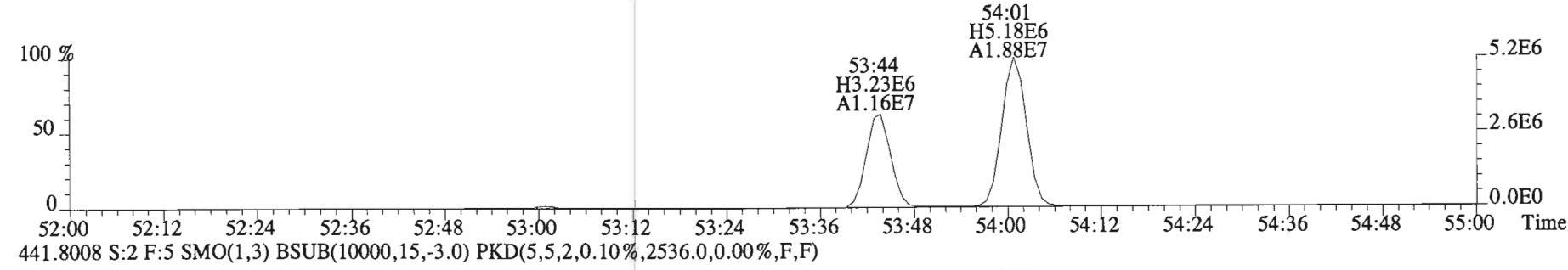
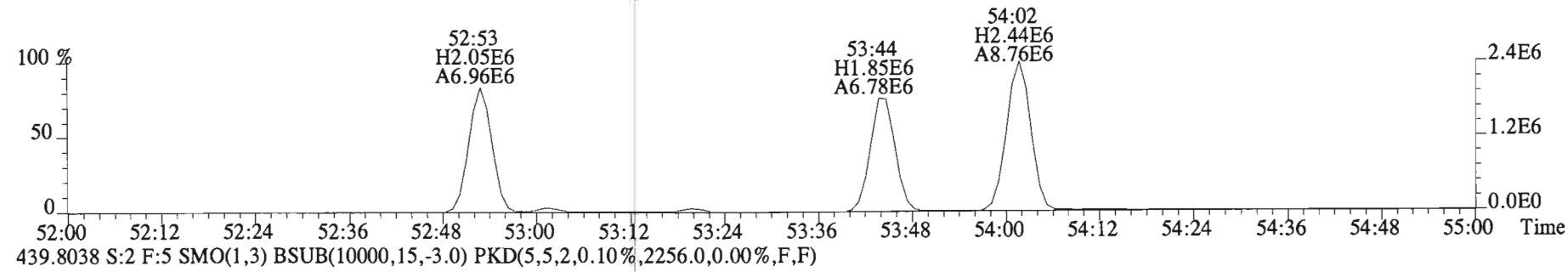
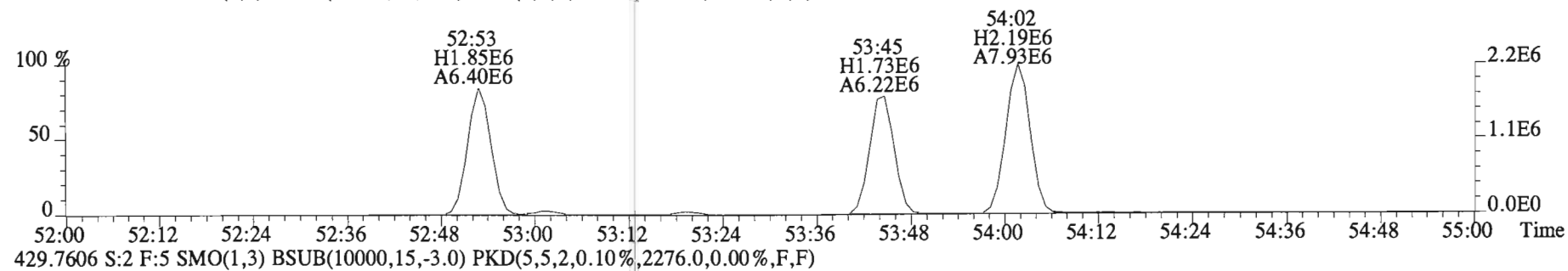
File:150226E1 #1-555 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
 393.8025 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,6976.0,0.00%,F,F)



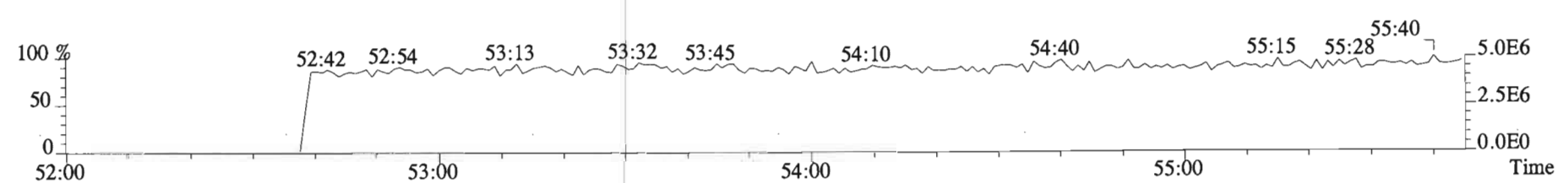
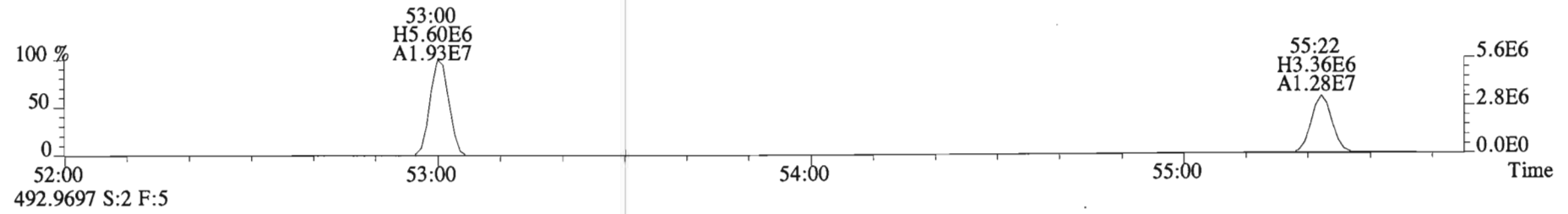
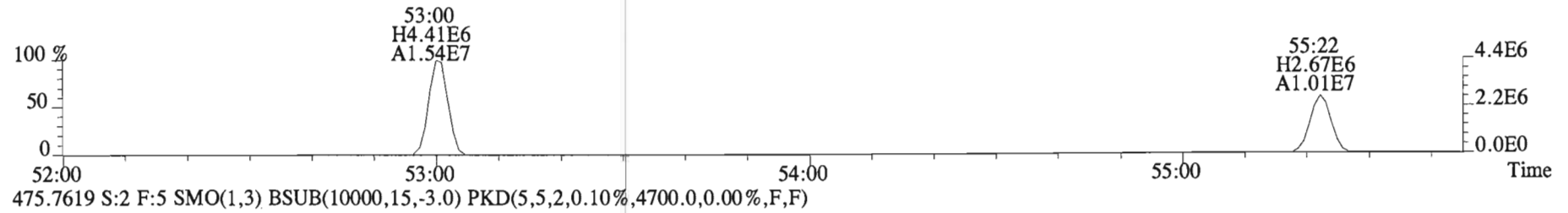
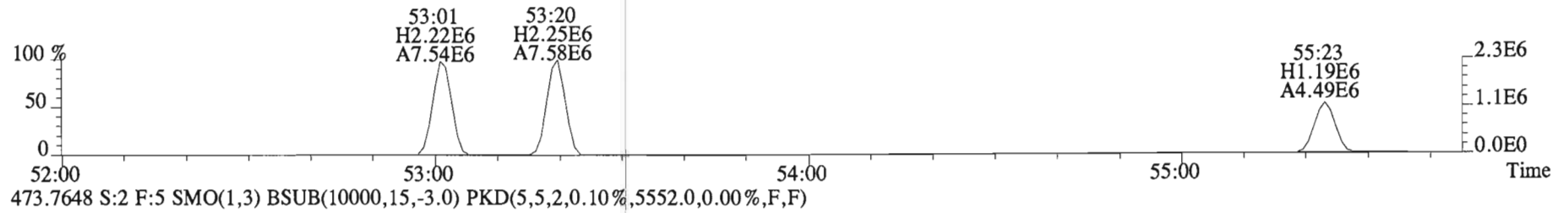
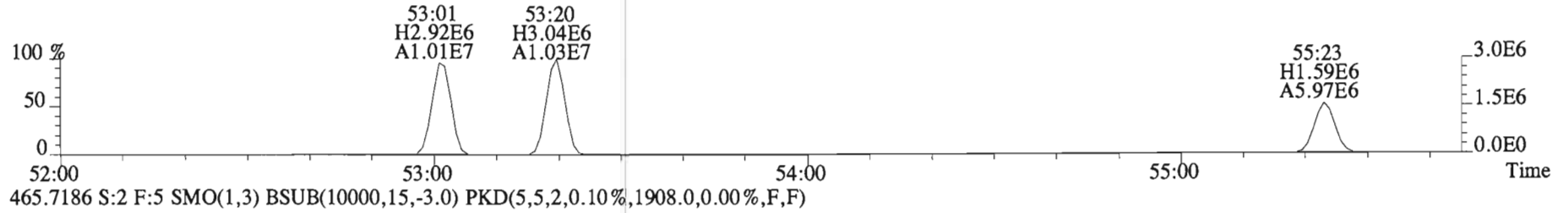
File:150226E1 #1-555 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
427.7635 S:2 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1288.0,0.00%,F,F)



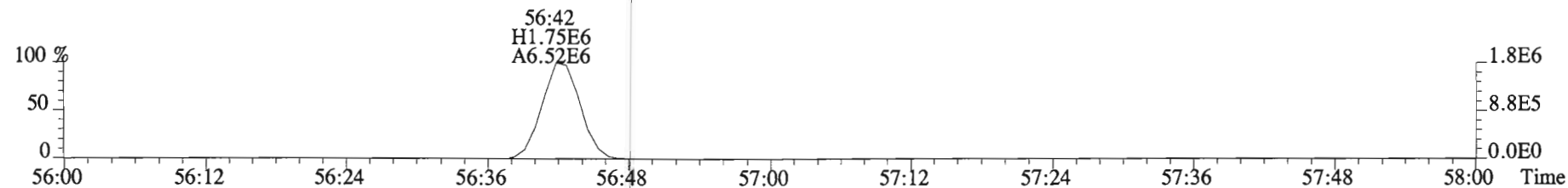
File:150226E1 #1-429 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
427.7635 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1904.0,0.00%,F,F)



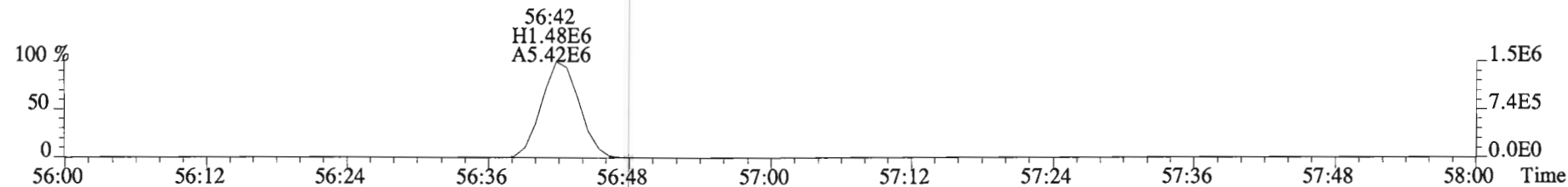
File:150226E1 #1-429 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
463.7216 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3380.0,0.00%,F,F)



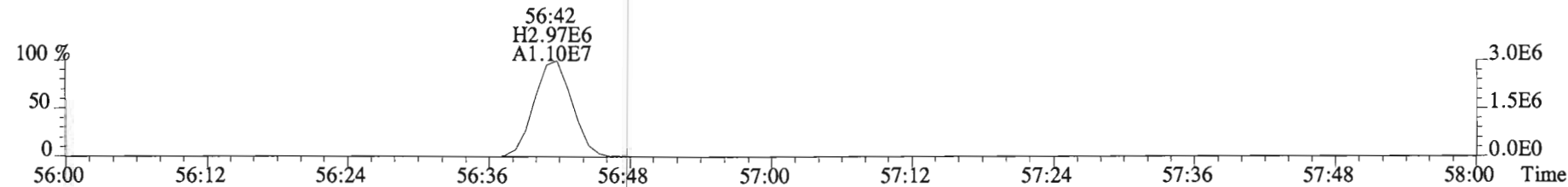
File:150226E1 #1-429 Acq:26-FEB-2015 12:49:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG-8 Text:B5B0085-BS1 OPR 1 Exp:PCB_ZB1
497.6826 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1320.0,0.00%,F,F)



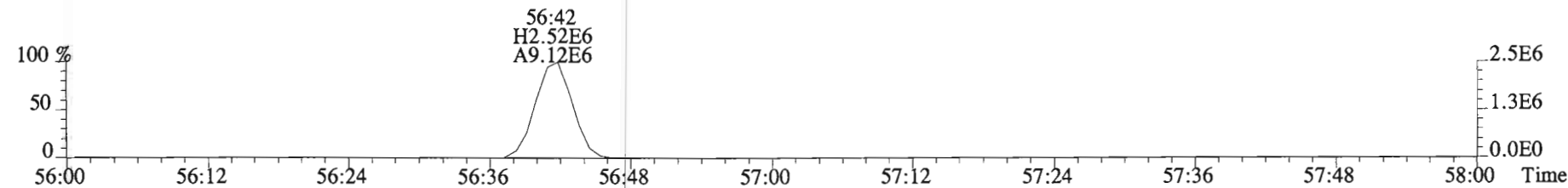
499.6797 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1456.0,0.00%,F,F)



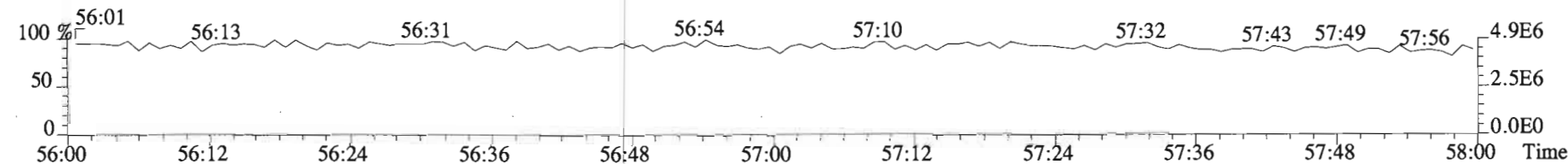
509.7229 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1424.0,0.00%,F,F)



511.7199 S:2 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1388.0,0.00%,F,F)



492.9697 S:2 F:5



Client ID: ST-TS-01-20150210-W
 Lab ID: 1500166-01@10X

Filename: 150226E1 S:6 Acq:26-FEB-15 17:06:33
 GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 0.992

ConCal: ST150226E1-1
 EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	4.06e+05	3.16	y 16:10	1.33	96.6	*	2.5	*	*	1.001	0.997-1.007	
Mono	PCB-2	1.08e+05	2.66	y 18:33	1.30	25.2	*	2.5	*	*	0.989	0.983-0.993	
Mono	PCB-3	3.94e+05	2.89	y 18:46	1.30	91.6	*	2.5	*	*	1.000	0.996-1.006	
Di	PCB-4/10	3.54e+05	1.76	y 20:07	1.67	128	*	2.5	*	*	1.001	0.997-1.007	
Di	PCB-7/9	*	*	n NotF η	1.25	*	8240	2.5	54.3	*	*	0.864-0.872	
Di	PCB-6	3.58e+05	1.43	y 22:34	1.24	105	*	2.5	*	*	0.894	0.888-0.897	
Di	PCB-5/8	1.43e+06	1.68	y 22:57	1.27	408	*	2.5	*	*	0.909	0.905-0.915	
Di	PCB-14	*	*	n NotF η	1.47	*	8240	2.5	47.2	*	*	0.948-0.958	
Di	PCB-11	4.26e+05	1.41	y 25:15	1.28	115	*	2.5	*	*	1.000	0.995-1.005	
Di	PCB-12/13	*	*	n NotF η	1.27	*	8240	2.5	54.8	*	*	1.011-1.021	
Di	PCB-15	2.28e+06	1.51	y 25:58	1.44	548	*	2.5	*	*	1.029	1.023-1.031	
Tri	PCB-19	1.69e+05	0.96	y 24:14	1.18	77.3	*	2.5	*	*	1.000	0.996-1.006	
Tri	PCB-30	*	*	n NotF η	1.87	*	1790	2.5	10.2	*	*	1.033-1.043	
Tri	PCB-18	1.16e+06	1.14	y 25:53	0.89	483	*	2.5	*	*	0.954	0.949-0.959	
Tri	PCB-17	4.61e+05	1.09	y 26:03	0.96	178	*	2.5	*	*	0.960	0.956-0.966	
Tri	PCB-24/27	2.25e+05	1.07	y 26:37	1.30	63.8	*	2.5	*	*	0.981	0.977-0.987	
Tri	PCB-16/32	1.13e+06	1.10	y 27:08	1.05	400	*	2.5	*	*	1.000	0.996-1.006	
Tri	PCB-34	*	*	n NotF η	1.30	*	1890	2.5	13.9	*	*	0.955-0.965	
Tri	PCB-23	*	*	n NotF η	1.21	*	1890	2.5	14.9	*	*	0.958-0.968	
Tri	PCB-29	*	*	n NotF η	1.21	*	1890	2.5	14.9	*	*	0.967-0.977	
Tri	PCB-26	4.57e+05	1.16	y 28:28	1.24	144	*	2.5	*	*	0.979	0.974-0.984	
Tri	PCB-25	2.31e+05	0.98	y 28:39	1.10	82.0	*	2.5	*	*	0.985	0.980-0.990	
Tri	PCB-31	2.37e+06	1.10	y 28:59	1.25	738	*	2.5	*	*	0.997	0.992-1.002	
Tri	PCB-28	3.26e+06	1.07	y 29:06	1.24	1020	*	2.5	*	*	1.001	0.996-1.006	
Tri	PCB-20/21/33	1.37e+06	1.02	y 29:43	1.16	462	*	2.5	*	*	1.022	1.016-1.026	
Tri	PCB-22	8.49e+05	1.01	y 30:10	1.16	284	*	2.5	*	*	1.037	1.032-1.042	
Tri	PCB-36	*	*	n NotF η	1.30	*	1890	2.5	14.6	*	*	0.929-0.939	
Tri	PCB-39	*	*	n NotF η	1.26	*	1890	2.5	15.1	*	*	0.943-0.953	
Tri	PCB-38	*	*	n NotF η	1.24	*	1890	2.5	15.3	*	*	0.967-0.977	
Tri	PCB-35	9.17e+04	0.90	y 32:32	1.26	29.0	*	2.5	*	*	0.987	0.982-0.992	
Tri	PCB-37	1.69e+06	1.11	y 32:58	1.35	499	*	2.5	*	*	1.001	0.996-1.006	
Tetra	PCB-54	*	*	n NotF η	1.02	*	1920	2.5	16.9	*	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotF η	0.78	*	1920	2.5	22.3	*	*	1.037-1.047	
Tetra	PCB-53	5.59e+05	0.85	y 29:47	1.14	307	*	2.5	*	*	0.946	0.941-0.951	
Tetra	PCB-51	1.53e+05	0.86	y 30:07	1.16	82.5	*	2.5	*	*	0.957	0.952-0.962	
Tetra	PCB-45	3.57e+05	0.86	y 30:33	1.04	214	*	2.5	*	*	0.970	0.965-0.975	
Tetra	PCB-46	1.98e+05	0.80	y 31:02	0.95	131	*	2.5	*	*	0.986	0.981-0.991	

Integrations by:

Analyst DMS

Date: 2/27/15

Reviewed by: CT

Date: 3/2/15

Client ID: ST-TS-01-20150210-W
Lab ID: 1500166-01@10X

Filename: 150226E1 S:6 Acq:26-FEB-15 17:06:33
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 0.992

ConCal: ST150226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	5.64e+06	0.79	y 31:30	1.29	2730		*	2.5	*	1.000	0.996-1.006	
Tetra	PCB-73	*	*	n NotF η	1.41	*		1920	2.5	17.0	*	0.999-1.009	
Tetra	PCB-43/49	1.85e+06	0.81	y 31:48	1.14	1010		*	2.5	*	1.010	1.005-1.015	
Tetra	PCB-47	5.65e+05	0.86	y 32:00	1.20	288		*	2.5	*	1.000	0.996-1.006	
Tetra	PCB-48/75	3.54e+05	0.67	y 32:08	1.33	163		*	2.5	*	1.004	0.999-1.009	
Tetra	PCB-65	*	*	n NotF η	1.32	*		1920	2.5	19.6	*	1.007-1.017	
Tetra	PCB-62	*	*	n NotF η	1.36	*		1920	2.5	19.0	*	1.011-1.021	
Tetra	PCB-44	2.42e+06	0.82	y 32:47	0.87	1700		*	2.5	*	1.025	1.020-1.030	
Tetra	PCB-42/59	7.84e+05	0.84	y 33:01	1.24	387		*	2.5	*	1.032	1.027-1.037	
Tetra	PCB-41/64/71/72	2.56e+06	0.83	y 33:36	1.34	1170		*	2.5	*	1.050	1.045-1.055	
Tetra	PCB-68	*	*	n NotF η	1.61	*		1920	2.5	16.0	*	1.053-1.063	
Tetra	PCB-40	3.34e+05	0.70	y 34:05	0.86	238		*	2.5	*	1.065	1.061-1.071	
Tetra	PCB-57	*	*	n NotF η	1.12	*		1920	2.5	16.4	*	0.965-0.975	
Tetra	PCB-67	9.64e+04	0.71	y 34:45	1.09	40.1		*	2.5	*	0.979	0.974-0.984	
Tetra	PCB-58	*	*	n NotF η	1.14	*		1920	2.5	16.2	*	0.977-0.987	
Tetra	PCB-63	1.18e+05	0.76	y 35:02	1.16	46.0		*	2.5	*	0.987	0.981-0.991	
Tetra	PCB-74	1.76e+06	0.78	y 35:19	1.21	660		*	2.5	*	0.995	0.989-0.999	
Tetra	PCB-61/70	5.99e+06	0.77	y 35:31	1.13	2420		*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-76/66	3.78e+06	0.83	y 35:44	1.18	1450		*	2.5	*	1.007	1.000-1.010	
Tetra	PCB-80	*	*	n NotF η	1.32	*		1920	2.5	14.0	*	0.995-1.005	
Tetra	PCB-55	1.70e+05	0.77	y 36:14	1.23	61.1		*	2.5	*	1.009	1.004-1.014	
Tetra	PCB-56/60	2.24e+06	0.78	y 36:45	1.11	897		*	2.5	*	1.023	1.018-1.028	
Tetra	PCB-79	2.27e+05	0.71	y 37:50	1.16	86.6		*	2.5	*	1.053	1.048-1.058	
Tetra	PCB-78	*	*	n NotF η	1.18	*		1920	2.5	15.7	*	0.982-0.992	
Tetra	PCB-81	4.99e+04	0.85	y 39:01	1.29	16.8		*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-77	6.67e+05	0.78	y 39:38	1.29	231		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-104	*	*	n NotF η	1.26	*		1590	2.5	25.6	*	0.996-1.006	
Penta	PCB-96	7.16e+04	1.70	y 33:55	1.09	43.6		*	2.5	*	1.039	1.034-1.044	
Penta	PCB-103	6.24e+04	1.49	y 34:27	0.97	42.8		*	2.5	*	1.055	1.051-1.061	
Penta	PCB-100	3.39e+04	1.59	y 34:49	0.96	23.4		*	2.5	*	1.067	1.061-1.071	
Penta	PCB-94	5.26e+04	1.37	y 35:16	1.13	41.4		*	2.5	*	0.985	0.980-0.990	
Penta	PCB-95/98/102	9.66e+06	1.60	y 35:49	1.29	6670		*	2.5	*	1.000	0.994-1.004	
Penta	PCB-93	*	*	n NotF η	1.06	*		1590	2.5	41.8	*	0.998-1.008	
Penta	PCB-88/91	1.57e+06	1.71	y 36:13	1.12	1240		*	2.5	*	1.012	1.006-1.016	
Penta	PCB-121	*	*	n NotF η	1.76	*		1590	2.5	25.2	*	1.009-1.019	
Penta	PCB-84/92	4.62e+06	1.57	y 37:08	1.07	3390		*	2.5	*	0.991	0.985-0.995	
Penta	PCB-89	8.89e+04	1.90	n 37:18	1.00	70.3	R	*	2.5	*	0.995	0.990-1.000	

Analyst: Dms

Date: 2/27/15

Client ID: ST-TS-01-20150210-W
Lab ID: 1500166-01@10X

Filename: 150226E1 S:6 Acq:26-FEB-15 17:06:33
GC Column ID: ZB-1 ICAL: PCBVG8-1-14-15 wt/vol: 0.992

ConCal: ST150226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	9.70e+06	1.61	y 37:29	1.21	6330		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-113	2.10e+04	0.71	n 37:42	1.34	12.3	R	*	2.5	*	1.006	1.002-1.012	
Penta	PCB-99	3.77e+06	1.58	y 37:50	1.25	2370		*	2.5	*	1.009	1.004-1.014	
Penta	PCB-119	2.48e+05	1.66	y 38:17	1.88	115		*	2.5	*	0.987	0.982-0.992	
Penta	PCB-108/112	5.89e+05	1.64	y 38:27	1.41	364		*	2.5	*	0.992	0.986-0.996	
Penta	PCB-83	*	*	n NotF η	1.66	*		1590	2.5	25.0	*	0.990-1.000	
Penta	PCB-97	3.02e+06	1.69	y 38:48	1.30	2020		*	2.5	*	1.001	0.995-1.005	
Penta	PCB-86	*	*	n NotF η	1.03	*		1590	2.5	40.2	*	0.999-1.009	
Penta	PCB-87/117/125	4.30e+06	1.56	y 39:05	1.59	2350		*	2.5	*	1.008	1.002-1.012	
Penta	PCB-111/115	1.85e+05	1.51	y 39:14	1.86	86.6		*	2.5	*	1.012	1.006-1.016	
Penta	PCB-85/116	1.60e+06	1.61	y 39:21	1.39	999		*	2.5	*	1.015	1.010-1.020	
Penta	PCB-120	7.21e+04	1.38	y 39:33	1.99	31.5		*	2.5	*	1.020	1.016-1.026	
Penta	PCB-110	2.00e+07	1.58	y 39:45	1.70	10200		*	2.5	*	1.025	1.019-1.029	
Penta	PCB-82	1.05e+06	1.67	y 40:22	0.74	989		*	2.5	*	0.976	0.971-0.981	
Penta	PCB-124	6.74e+05	1.41	y 41:02	1.30	361		*	2.5	*	0.992	0.988-0.998	
Penta	PCB-107/109	7.32e+05	1.52	y 41:12	1.34	383		*	2.5	*	0.996	0.991-1.001	
Penta	PCB-123	2.33e+05	1.76	y 41:21	1.25	130		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-106/118	1.05e+07	1.56	y 41:32	1.29	5780		*	2.5	*	1.000	0.996-1.006	
Penta	PCB-114	2.06e+05	1.70	y 42:11	1.45	85.3		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-122	1.54e+05	1.57	y 42:19	1.22	75.9		*	2.5	*	1.003	0.999-1.009	
Penta	PCB-105	4.66e+06	1.64	y 43:03	1.56	1910		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n NotF η	1.31	*		1850	2.5	29.7	*	0.995-1.005	
Penta	PCB-126	1.00e+05	1.47	y 45:16	1.41	49.5		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-155	*	*	n NotF η	1.20	*		1260	2.5	21.2	*	0.966-1.006	
Hexa	PCB-150	*	*	n NotF η	1.13	*		1260	2.5	22.5	*	1.030-1.040	
Hexa	PCB-152	*	*	n NotF η	1.17	*		1260	2.5	21.8	*	1.043-1.053	
Hexa	PCB-145	*	*	n NotF η	1.09	*		1260	2.5	23.3	*	1.055-1.065	
Hexa	PCB-136	1.92e+06	1.42	y 39:32	1.14	1290		*	2.5	*	1.068	1.063-1.073	
Hexa	PCB-148	*	*	n NotF η	0.82	*		1260	2.5	31.1	*	1.066-1.076	
Hexa	PCB-154	1.17e+05	1.07	y 40:08	0.89	101		*	2.5	*	1.084	1.079-1.089	
Hexa	PCB-151	2.14e+06	1.28	y 40:47	0.82	2010		*	2.5	*	1.101	1.097-1.107	
Hexa	PCB-135	1.40e+06	1.22	y 41:00	0.80	1350		*	2.5	*	1.107	1.101-1.113	
Hexa	PCB-144	5.27e+05	1.41	y 41:06	0.86	473		*	2.5	*	1.110	1.105-1.116	
Hexa	PCB-147	1.90e+05	1.64	n 41:14	0.78	187	R	*	2.5	*	1.114	1.108-1.120	
Hexa	PCB-139/149	8.82e+06	1.29	y 41:29	0.87	7780		*	2.5	*	1.120	1.115-1.127	
Hexa	PCB-140	3.91e+04	1.91	n 41:42	0.78	38.6	R	*	2.5	*	1.126	1.120-1.132	
Hexa	PCB-134/143	9.13e+05	1.42	y 42:08	0.93	644		*	2.5	*	0.976	0.970-0.980	

Analyst: Dms

Date: 2/27/15

Client ID: ST-TS-01-20150210-W
Lab ID: 1500166-01@10X

Filename: 150226E1 S:6 Acq:26-FEB-15 17:06:33
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 0.992

ConCal: ST150226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	4.65e+05	1.36	y 42:25	0.91	336	*	2.5	*	*	0.982	0.977-0.987	
Hexa	PCB-131	*	*	n NotF η	0.85	*	*	1850 2.5	39.9	*	*	0.981-0.991	
Hexa	PCB-146/165	2.33e+06	1.30	y 42:48	1.08	1410	*	2.5	*	*	0.991	0.986-0.996	
Hexa	PCB-132/161	6.03e+06	1.28	y 43:04	1.12	3540	*	2.5	*	*	0.997	0.992-1.002	
Hexa	PCB-153	1.36e+07	1.27	y 43:13	1.20	7440	*	2.5	*	*	1.001	0.996-1.006	
Hexa	PCB-168	*	*	n NotF η	1.36	*	*	1850 2.5	24.8	*	*	1.000-1.010	
Hexa	PCB-141	2.89e+06	1.26	y 43:57	1.16	1940	*	2.5	*	*	1.001	0.995-1.005	
Hexa	PCB-137	8.39e+05	1.21	y 44:20	1.18	553	*	2.5	*	*	1.009	1.004-1.014	
Hexa	PCB-130	1.04e+06	1.35	y 44:25	0.92	877	*	2.5	*	*	1.011	1.006-1.016	
Hexa	PCB-138/163/164	1.89e+07	1.26	y 44:47	1.38	10500	*	2.5	*	*	1.000	0.996-1.006	
Hexa	PCB-158/160	2.35e+06	1.37	y 45:01	1.48	1220	*	2.5	*	*	1.006	1.001-1.011	
Hexa	PCB-129	7.71e+05	1.25	y 45:17	0.99	600	*	2.5	*	*	1.012	1.007-1.017	
Hexa	PCB-166	7.30e+04	1.60	n 45:45	1.14	40.1	R	*	2.5	*	0.993	0.988-0.998	
Hexa	PCB-159	*	*	n NotF η	1.22	*	*	1850 2.5	25.7	*	*	0.995-1.005	
Hexa	PCB-128/162	3.15e+06	1.30	y 46:21	1.03	1910	*	2.5	*	*	1.006	1.002-1.012	
Hexa	PCB-167	8.86e+05	1.40	y 46:45	1.18	451	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-156	1.70e+06	1.29	y 48:03	1.27	929	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-157	4.59e+05	1.21	y 48:19	1.22	256	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-169	*	*	n NotF η	1.07	*	*	1850 2.5	34.5	*	*	0.995-1.005	
Hepta	PCB-188	*	*	n NotF η	1.52	*	*	1620 2.5	16.0	*	*	0.996-1.006	
Hepta	PCB-184	*	*	n NotF η	1.34	*	*	1620 2.5	18.2	*	*	1.006-1.016	
Hepta	PCB-179	1.56e+06	1.04	y 44:03	1.39	1010	*	2.5	*	*	1.029	1.024-1.034	
Hepta	PCB-176	4.61e+05	1.14	y 44:31	1.45	285	*	2.5	*	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotF η	1.46	*	*	1620 2.5	16.7	*	*	1.049-1.059	
Hepta	PCB-178	5.09e+05	1.12	y 45:37	1.07	426	*	2.5	*	*	1.065	1.061-1.071	
Hepta	PCB-175	1.27e+05	1.15	y 45:58	1.05	109	*	2.5	*	*	1.073	1.069-1.079	
Hepta	PCB-182/187	3.43e+06	1.08	y 46:07	1.14	2710	*	2.5	*	*	1.077	1.073-1.083	
Hepta	PCB-183	1.67e+06	1.04	y 46:28	1.22	1230	*	2.5	*	*	1.085	1.080-1.090	
Hepta	PCB-185	3.19e+05	1.05	y 47:07	1.40	326	*	2.5	*	*	0.955	0.950-0.960	
Hepta	PCB-174	2.81e+06	1.13	y 47:29	1.29	3130	*	2.5	*	*	0.963	0.958-0.968	
Hepta	PCB-181	*	*	n NotF η	1.35	*	*	1620 2.5	29.8	*	*	0.960-0.970	
Hepta	PCB-177	1.50e+06	1.06	y 47:45	1.27	1700	*	2.5	*	*	0.968	0.963-0.973	
Hepta	PCB-171	7.92e+05	1.17	y 48:03	1.46	780	*	2.5	*	*	0.974	0.969-0.979	
Hepta	PCB-173	7.60e+04	0.95	y 48:29	1.10	98.7	*	2.5	*	*	0.983	0.978-0.988	
Hepta	PCB-172	4.39e+05	1.00	y 48:55	1.35	466	*	2.5	*	*	0.992	0.987-0.997	
Hepta	PCB-192	*	*	n NotF η	1.74	*	*	1620 2.5	23.1	*	*	0.991-1.001	
Hepta	PCB-180	5.89e+06	1.11	y 49:19	1.45	5830	*	2.5	*	*	1.000	0.995-1.005	

Analyst: Dms

Date: 2/27/15

Client ID: ST-TS-01-20150210-W
Lab ID: 1500166-01@10X

Filename: 150226E1 S:6 Acq:26-FEB-15 17:06:33
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 0.992

ConCal: ST150226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	3.60e+05	1.09	y 49:32	1.85	279		*	2.5	*	1.004	0.999-1.009	
Hepta	PCB-191	1.75e+05	0.95	y 49:47	1.86	135		*	2.5	*	1.009	1.005-1.015	
Hepta	PCB-170	2.34e+06	1.00	y 50:47	1.67	2370		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-190	5.81e+05	0.98	y 50:57	2.25	439		*	2.5	*	1.003	0.999-1.009	
Hepta	PCB-189	1.11e+05	1.13	y 52:15	1.67	100		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-202	2.83e+05	1.03	n 48:16	1.02	285	R	*	2.5	*	1.001	0.995-1.005	
Octa	PCB-201	1.92e+05	0.87	y 48:44	1.10	180		*	2.5	*	1.010	1.005-1.015	
Octa	PCB-204	*	*	n NotF η	1.07	*		733	2.5	15.5	*	1.009-1.019	
Octa	PCB-197	6.27e+04	0.85	y 49:11	1.17	55.0		*	2.5	*	1.020	1.015-1.025	
Octa	PCB-200	1.92e+05	0.90	y 50:03	1.03	190		*	2.5	*	1.038	1.034-1.044	
Octa	PCB-198	4.46e+04	0.75	n 51:22	0.75	60.6	R	*	2.5	*	1.065	1.062-1.072	
Octa	PCB-199	1.01e+06	0.92	y 51:29	0.74	1390		*	2.5	*	1.067	1.064-1.074	
Octa	PCB-196/203	1.16e+06	0.90	y 51:44	0.83	1430		*	2.5	*	1.072	1.070-1.080	
Octa	PCB-195	3.33e+05	0.96	y 52:53	1.14	485		*	2.5	*	0.984	0.979-0.989	
Octa	PCB-194	7.86e+05	0.81	y 53:45	1.29	1010		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	5.68e+04	0.79	y 54:02	1.61	58.6		*	2.5	*	1.006	1.001-1.010	
Nona	PCB-208	2.24e+05	1.43	y 53:02	1.01	232		*	2.5	*	1.000	0.995-1.005	
Nona	PCB-207	8.44e+04	1.64	n 53:21	1.03	86.1	R	*	2.5	*	1.006	1.001-1.011	
Nona	PCB-206	4.75e+05	1.30	y 55:23	0.88	831		*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	2.43e+05	1.02	y 56:43	1.35	337		*	2.5	*	1.000	0.995-1.005	

Analyst: DMS

Date: 2/27/15

Client ID: ST-TS-01-20150210-W
Lab ID: 1500166-01@10X

Filename: 150226E1 S:6 Acq:26-FEB-15 17:06:33
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 0.9916 EndCAL: NA

ConCal: ST150226E1-1

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	9.08e+05	3.16 y	16:10	1.31	213.423	
Total Di-PCB	4.85e+06	1.76 y	20:07	1.32	1303.49	
Total Tri-PCB	3.15e+06	0.96 y	24:14	1.20	1201.95	
Total Tri-PCB	1.03e+07	1.16 y	28:28	1.23	3261.47	Sum:4463.42
Total Tetra-PCB	3.09e+07	0.85 y	29:47	1.17	14331.2	
Total Penta-PCB	7.28e+07	1.70 y	33:55	1.24	43981.3	
Total Penta-PCB	5.12e+06	1.70 y	42:11	1.39	2117.37	Sum:46098.7
Total Hexa-PCB	1.49e+07	1.42 y	39:32	0.94	12996.4	
Total Hexa-PCB	5.63e+07	1.42 y	42:08	1.13	32660.3	Sum:45656.7
Total Hepta-PCB	2.31e+07	1.04 y	44:03	1.37	21426.6	
Total Octa-PCB	2.61e+06	0.87 y	48:44	0.95	3246.58	
Total Octa-PCB	1.17e+06	0.96 y	52:53	1.35	1552.85	Sum:4799.43
Total Nona-PCB	6.99e+05	1.43 y	53:02	0.99	1062.93	
Total Deca-PCB	2.43e+05	1.02 y	56:43	1.35	337.119	

Total PCB Conc: ~~140473.189253~~ ^{2/27/15}
139690.

Integrations
by

Analyst: DMJ

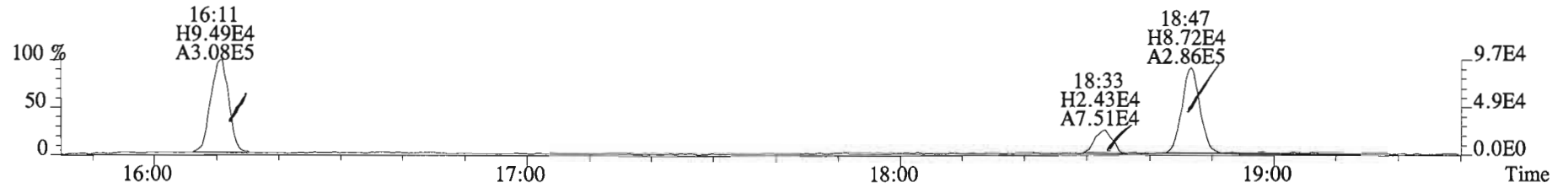
Date: 2/27/15

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS									
13C-PCB-1	6.36e+06	3.19	y	0.91	16:10	0.623	0.619-0.625	1950	96.9										
13C-PCB-3	6.68e+06	3.41	y	0.94	18:46	0.723	0.718-0.726	1980	98.2										
13C-PCB-4	3.35e+06	1.56	y	0.60	20:05	0.774	0.770-0.778	1570	77.7	13C-PCB-79	5.66e+06	0.80	y	1.02	37:48	1.029	1.024-1.033	1990	98.7
13C-PCB-9	5.56e+06	1.53	y	0.96	21:52	0.843	0.839-0.847	1620	80.2	13C-PCB-178	1.78e+06	0.41	y	0.64	45:37	0.985	0.980-0.989	1720	85.2
13C-PCB-11	5.84e+06	1.48	y	0.95	25:14	0.973	0.968-0.978	1710	84.7	PS vs. IS									
13C-PCB-19	3.71e+06	1.10	y	0.56	24:14	0.934	0.929-0.939	1850	91.7										
13C-PCB-28	5.19e+06	1.05	y	1.07	29:05	1.004	0.999-1.009	1720	85.3	13C-PCB-79	5.66e+06	0.80	y	1.02	37:48	0.969	0.963-0.973	2400	119
13C-PCB-32	5.47e+06	1.07	y	0.83	27:08	1.046	1.041-1.051	1850	91.7	13C-PCB-178	1.78e+06	0.41	y	0.84	45:37	0.925	0.920-0.930	3030	150
13C-PCB-37	5.07e+06	1.04	y	0.96	32:57	1.138	1.131-1.143	1870	92.7										
13C-PCB-47	3.31e+06	0.87	y	0.77	31:60	0.871	0.867-0.875	1550	76.7										
13C-PCB-52	3.22e+06	0.80	y	0.71	31:29	0.857	0.853-0.861	1630	80.6										
13C-PCB-54	4.61e+06	0.83	y	1.06	27:58	0.761	0.757-0.765	1560	77.5										
13C-PCB-70	4.45e+06	0.81	y	0.99	35:30	0.966	0.961-0.971	1610	79.7										
13C-PCB-77	4.51e+06	0.86	y	0.96	39:37	1.078	1.073-1.083	1680	83.4										
13C-PCB-80	4.57e+06	0.81	y	1.02	35:56	0.978	0.973-0.983	1600	79.6										
13C-PCB-81	4.64e+06	0.78	y	1.00	39:01	1.062	1.057-1.067	1670	82.8										
13C-PCB-95	2.26e+06	1.71	y	0.70	35:48	0.913	0.908-0.918	1580	78.2	RS									
13C-PCB-97	2.32e+06	1.57	y	0.66	38:47	0.989	0.984-0.994	1720	85.1										
13C-PCB-101	2.56e+06	1.69	y	0.77	37:29	0.956	0.951-0.961	1630	80.7	13C-PCB-15	7.22e+06	1.60	y	1.00	25:56	2020			
13C-PCB-104	3.03e+06	1.67	y	0.97	32:38	0.832	0.828-0.836	1530	75.8	13C-PCB-31	5.69e+06	1.04	y	1.00	28:58	2020			
13C-PCB-105	3.17e+06	1.62	y	1.20	43:02	0.929	0.924-0.934	1620	80.3	13C-PCB-60	5.61e+06	0.84	y	1.00	36:45	2020			
13C-PCB-114	3.35e+06	1.73	y	1.26	42:11	0.910	0.905-0.915	1640	81.2	13C-PCB-111	4.15e+06	1.58	y	1.00	39:13	2020			
13C-PCB-118	2.84e+06	1.61	y	0.94	41:31	1.059	1.054-1.064	1480	73.3	13C-PCB-128	3.28e+06	1.22	y	1.00	46:20	2020			
13C-PCB-123	2.89e+06	1.57	y	0.88	41:21	1.054	1.049-1.059	1600	79.1	13C-PCB-205	2.11e+06	0.95	y	1.00	54:01	2020			
13C-PCB-126	2.89e+06	1.39	y	1.13	45:16	0.977	0.972-0.982	1580	78.1										
13C-PCB-127	3.13e+06	1.65	y	1.26	43:23	0.936	0.931-0.941	1530	75.8										
13C-PCB-138	2.62e+06	1.28	y	1.12	44:46	0.966	0.961-0.971	1440	71.4										
13C-PCB-141	2.60e+06	1.19	y	1.09	43:55	0.948	0.943-0.953	1460	72.4										
13C-PCB-153	3.07e+06	1.24	y	1.27	43:11	0.932	0.927-0.937	1480	73.5										
13C-PCB-155	2.63e+06	1.20	y	0.87	37:02	0.944	0.939-0.949	1470	72.9										
13C-PCB-156	2.91e+06	1.29	y	1.35	48:02	1.037	1.032-1.042	1320	65.6										
13C-PCB-157	2.97e+06	1.30	y	1.42	48:18	1.042	1.037-1.047	1290	63.9										
13C-PCB-159	3.22e+06	1.26	y	1.37	46:04	0.994	0.989-0.999	1440	71.6										
13C-PCB-167	3.35e+06	1.42	y	1.38	46:44	1.009	1.004-1.014	1490	73.8										
13C-PCB-169	2.67e+06	1.34	y	1.38	50:25	1.088	1.084-1.094	1190	58.8										
13C-PCB-170	1.19e+06	0.46	y	0.60	50:47	1.096	1.091-1.103	1210	60.0										
13C-PCB-180	1.41e+06	0.51	y	0.76	49:19	1.064	1.059-1.069	1140	56.6										
13C-PCB-188	2.24e+06	0.43	y	1.01	42:49	0.924	0.919-0.929	1360	67.4										
13C-PCB-189	1.34e+06	0.48	y	0.80	52:15	1.128	1.124-1.136	1030	50.9										
13C-PCB-194	1.21e+06	1.01	y	0.75	53:44	0.995	0.990-1.000	1560	77.3	Analyst: <i>Dms</i>									
13C-PCB-202	1.97e+06	0.92	y	0.99	48:14	1.041	1.036-1.046	1220	60.7										
13C-PCB-206	1.31e+06	0.71	y	0.73	55:23	1.025	1.020-1.301	1710	84.6										
13C-PCB-208	1.92e+06	0.80	y	1.08	53:01	0.981	0.977-0.987	1700	84.2	Date: <i>2/27/15</i>									
13C-PCB-209	1.08e+06	1.01	y	0.71	56:42	1.050	1.045-1.055	1450	72.1										

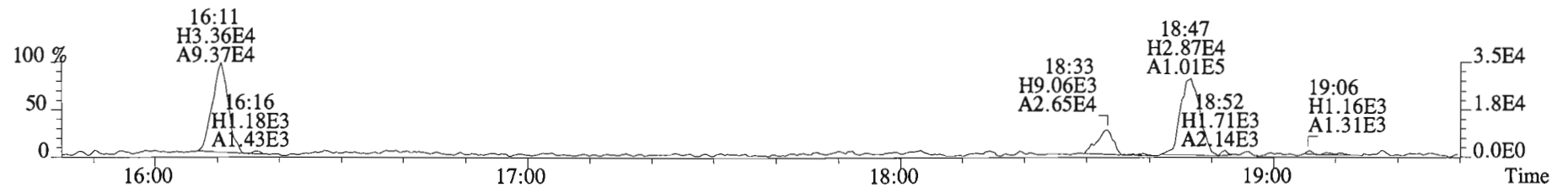
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Date: *2/27/15*

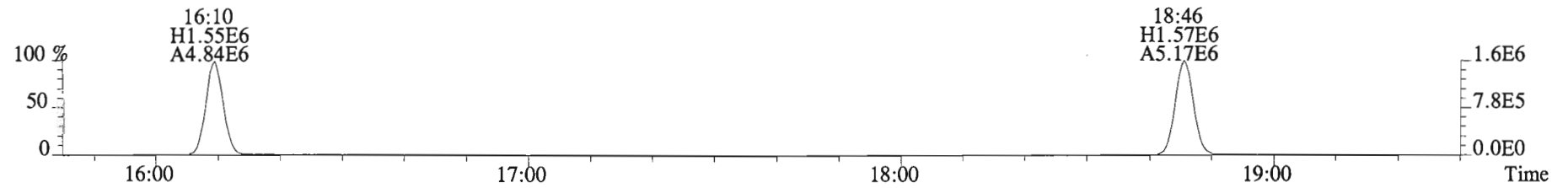
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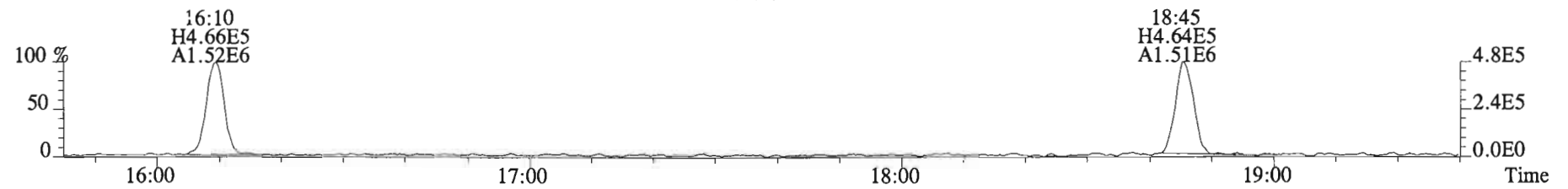
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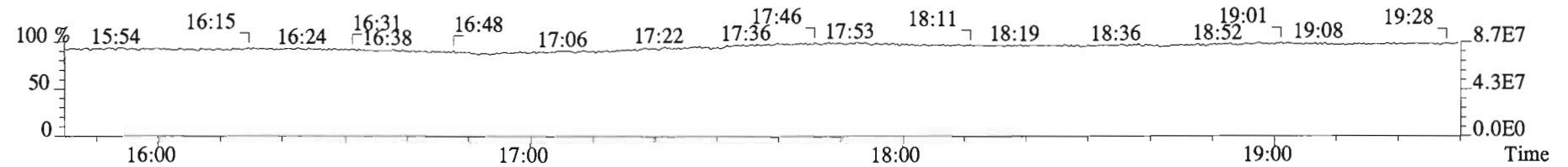
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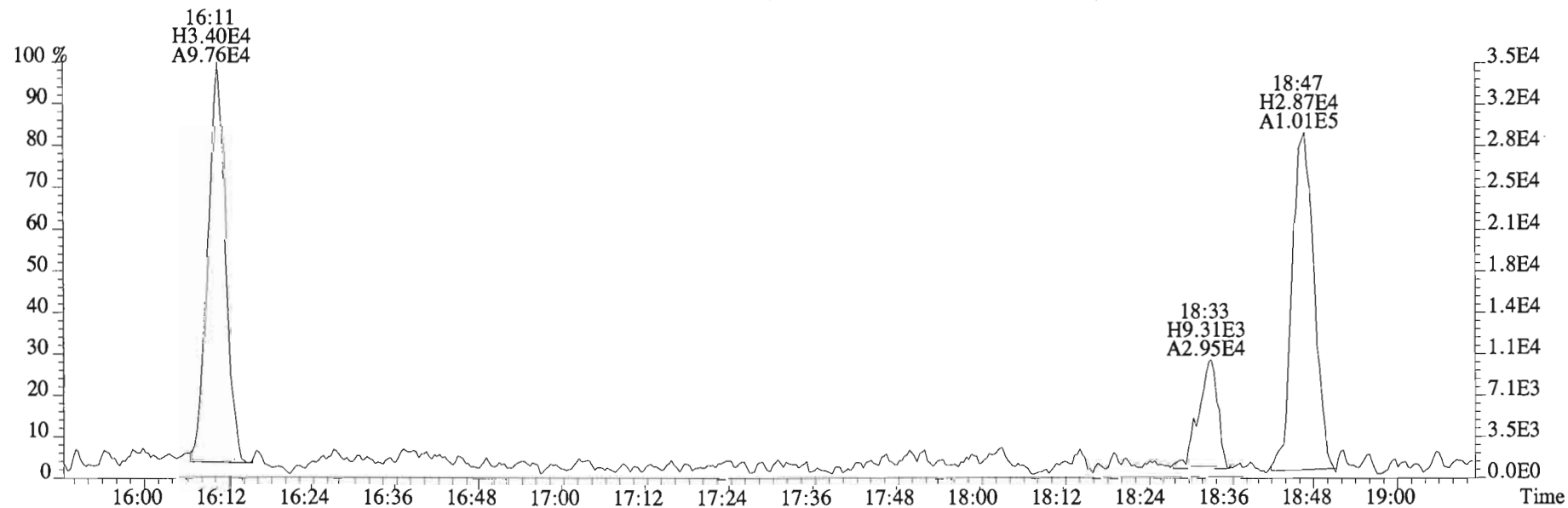
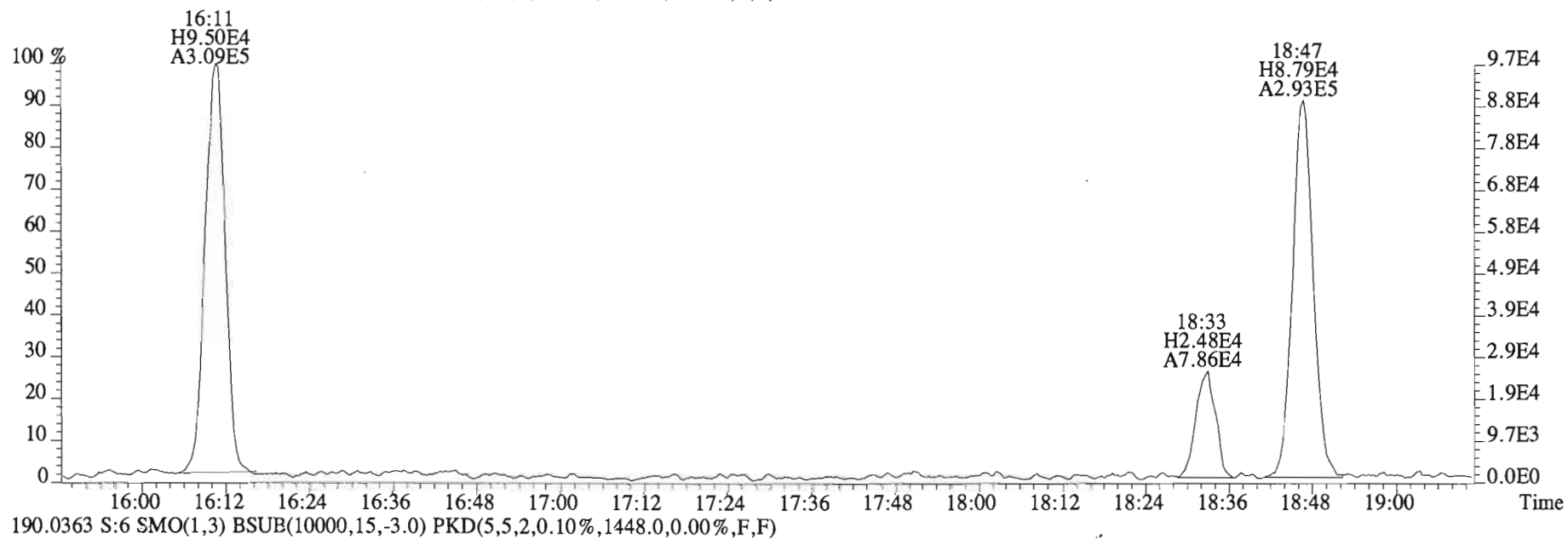
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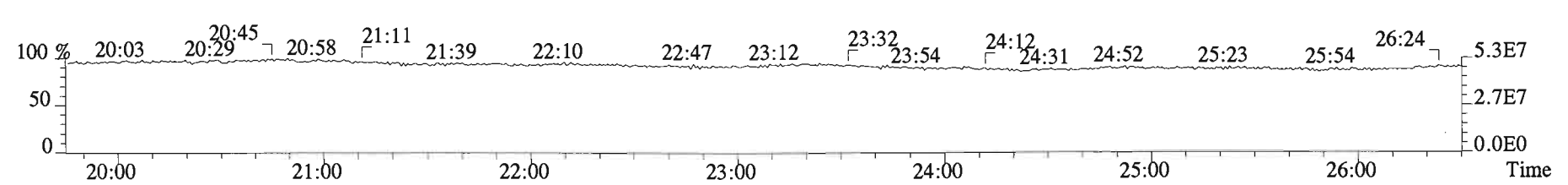
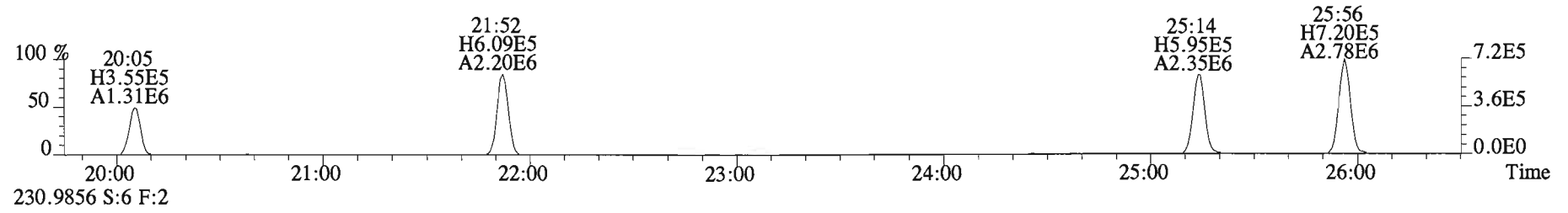
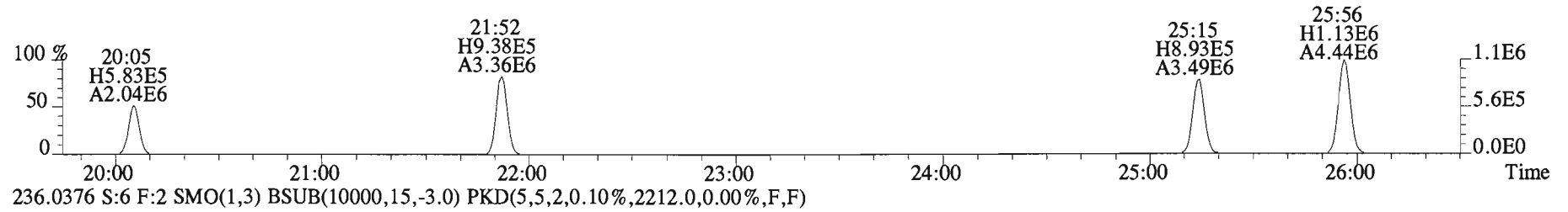
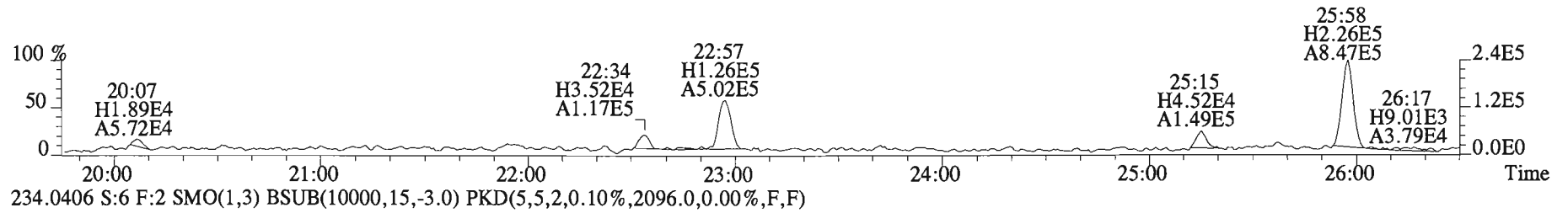
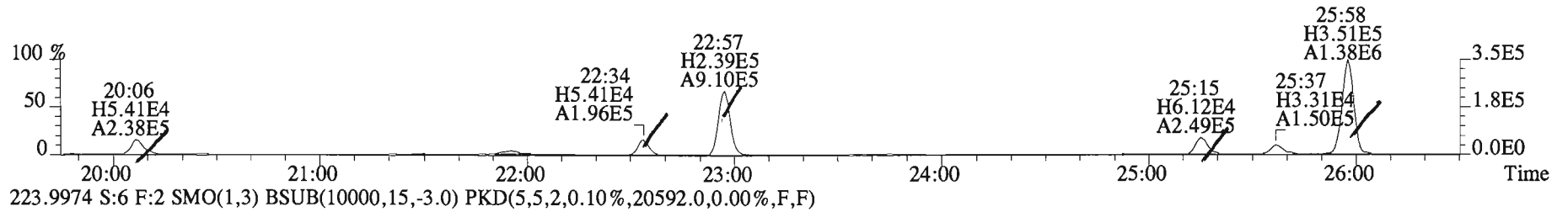
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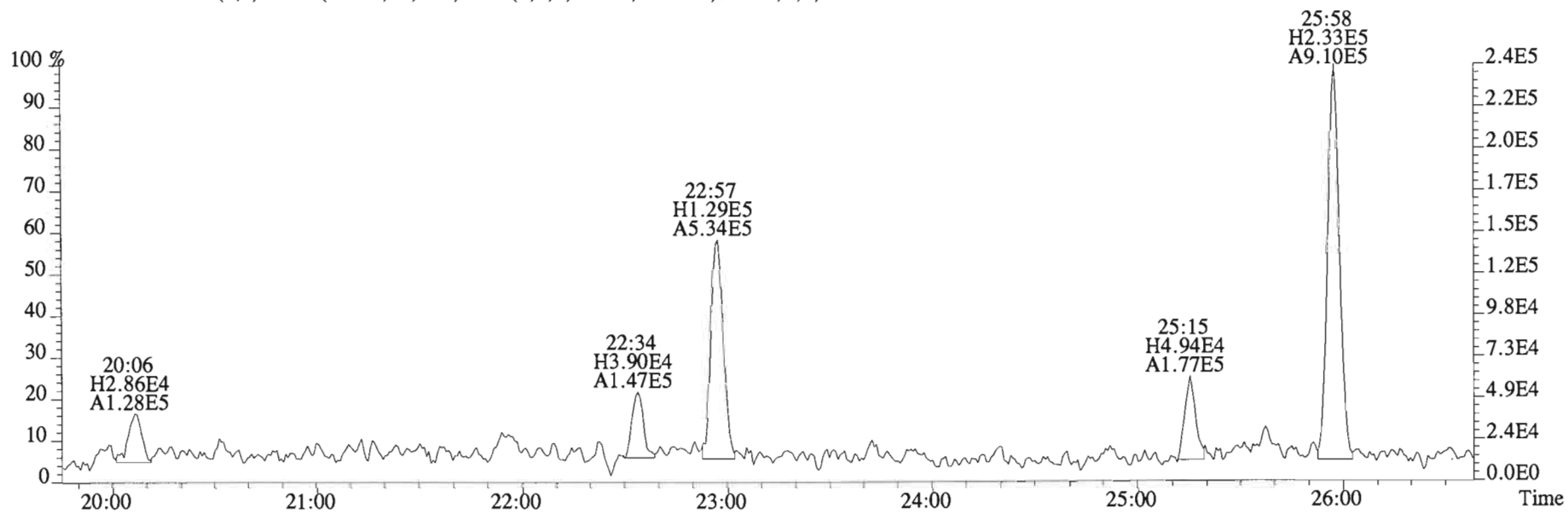
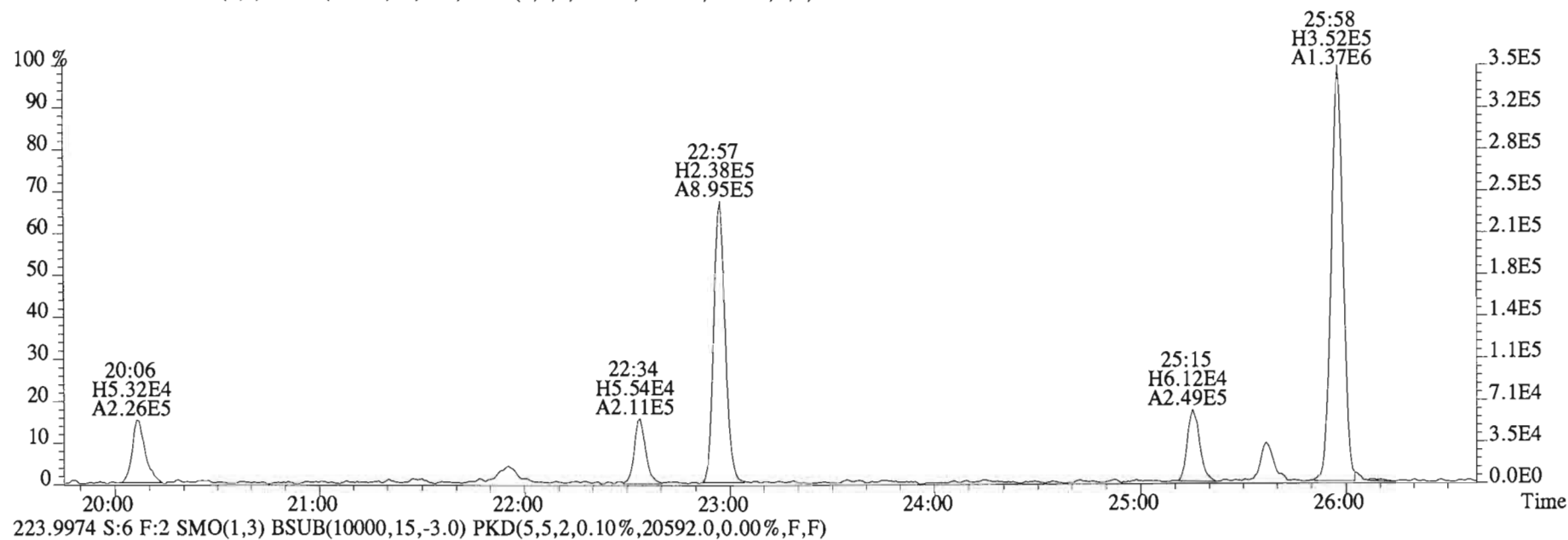
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Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
188.0393 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2092.0,0.00%,F,F)



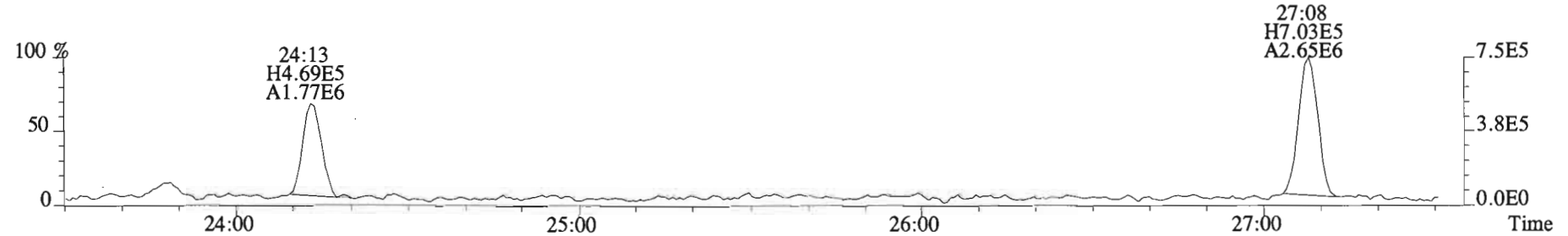
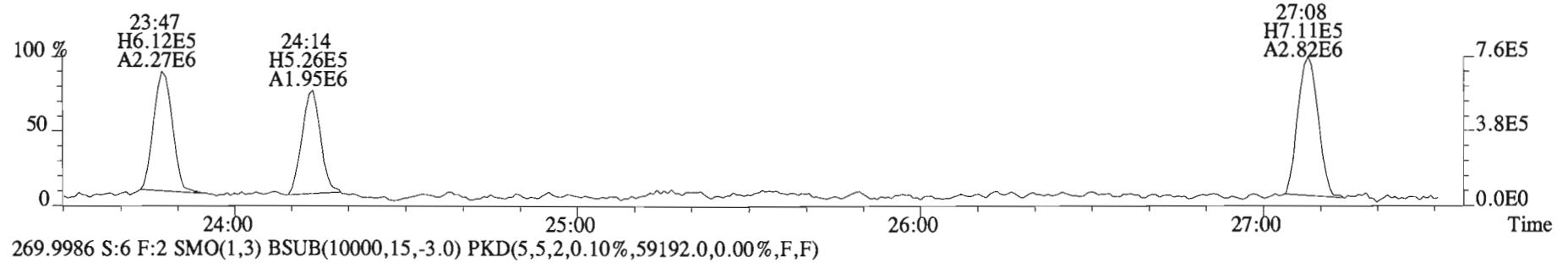
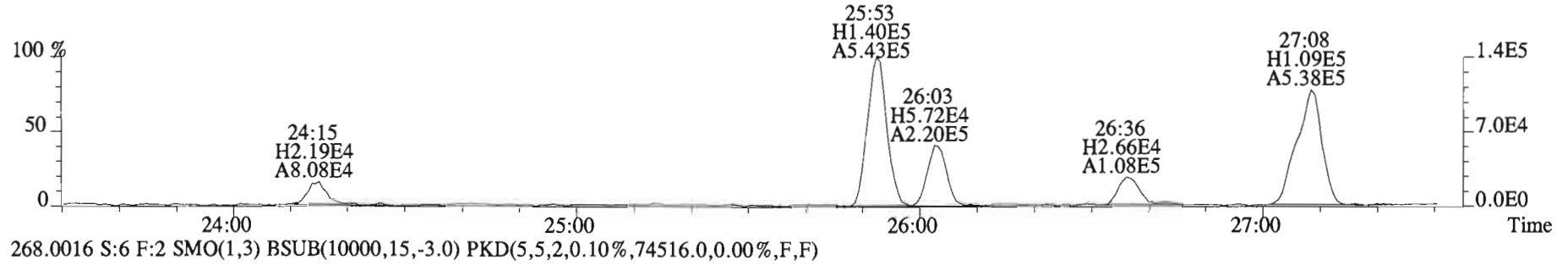
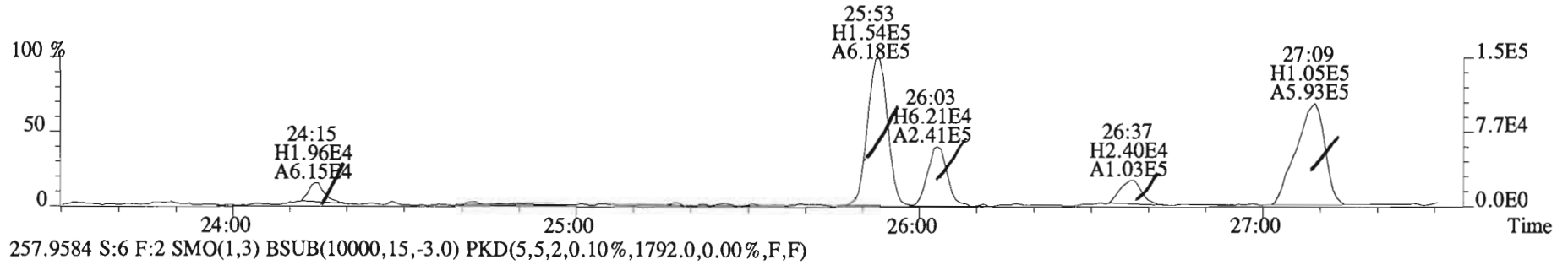
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
 222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2736.0,0.00%,F,F)



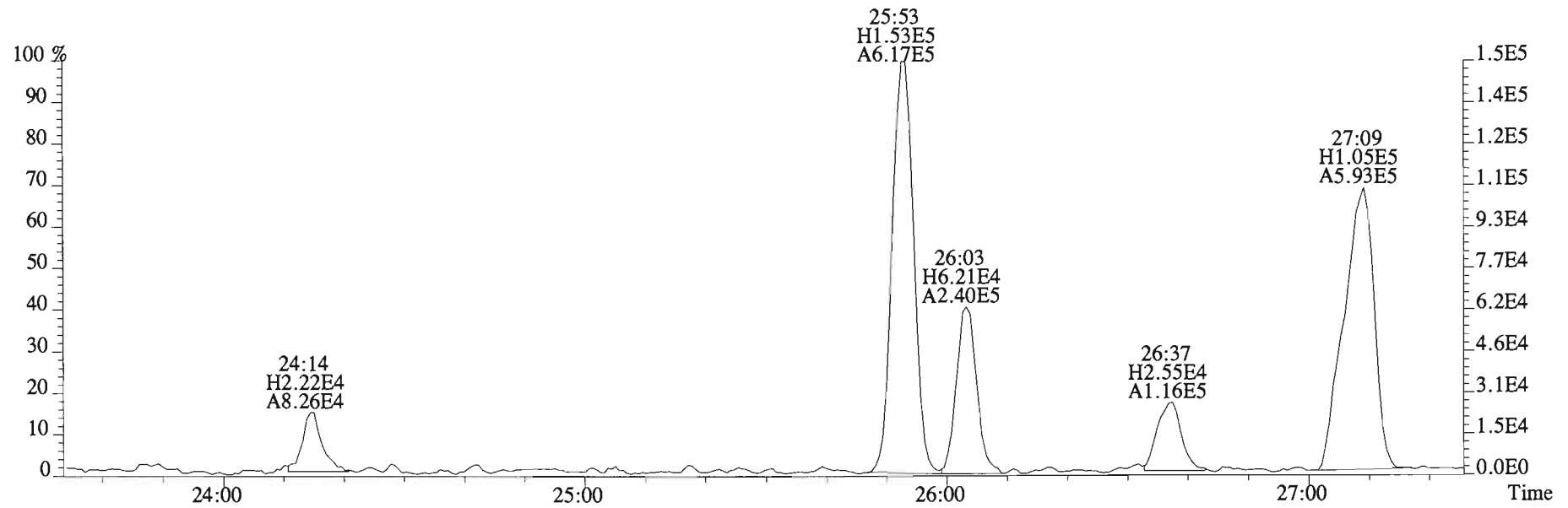
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2736.0,0.00%,F,F)



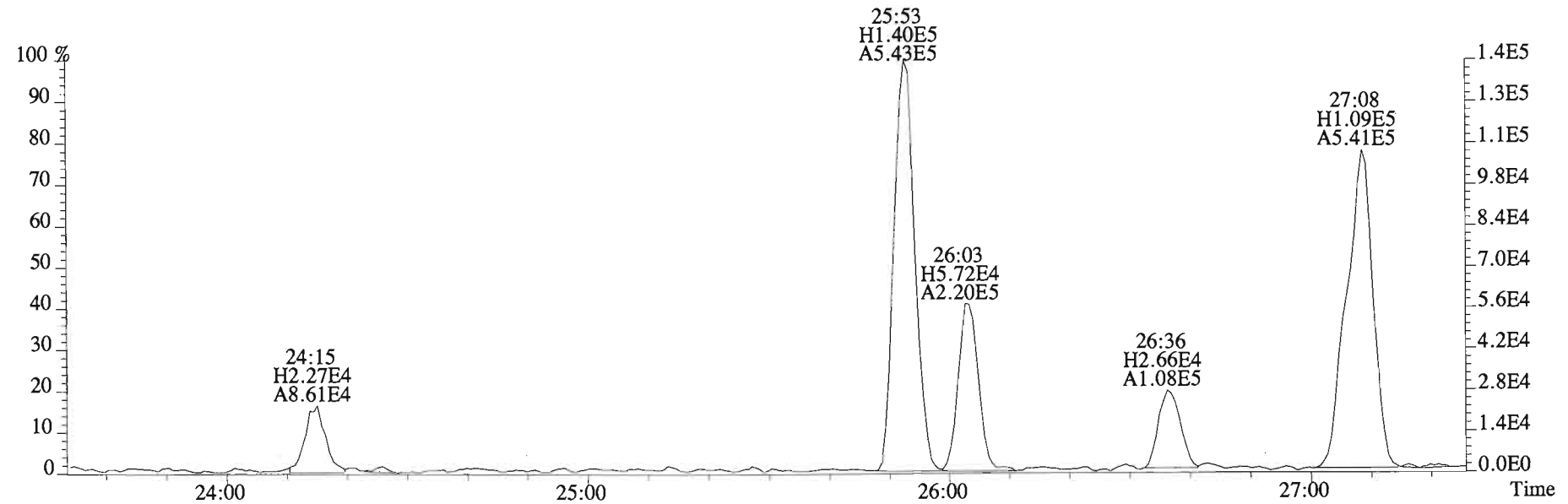
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2680.0,0.00%,F,F)



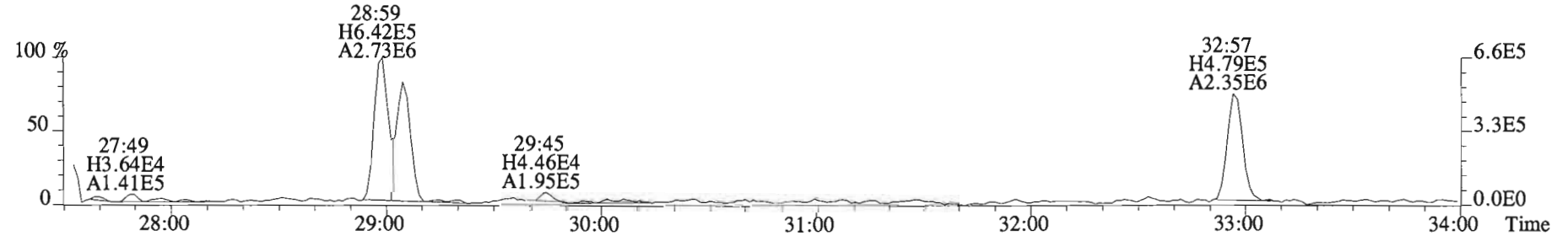
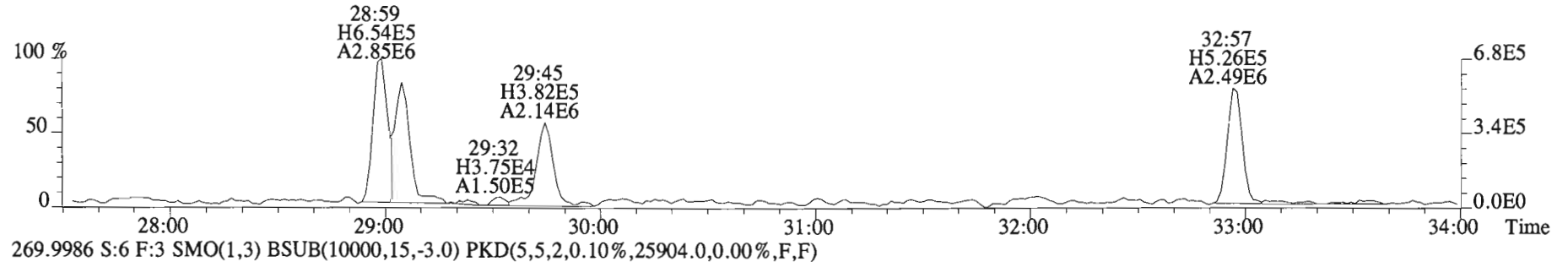
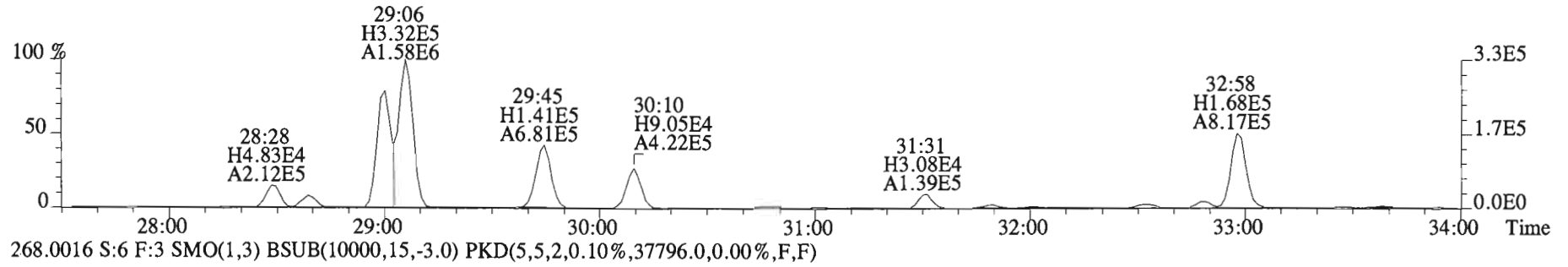
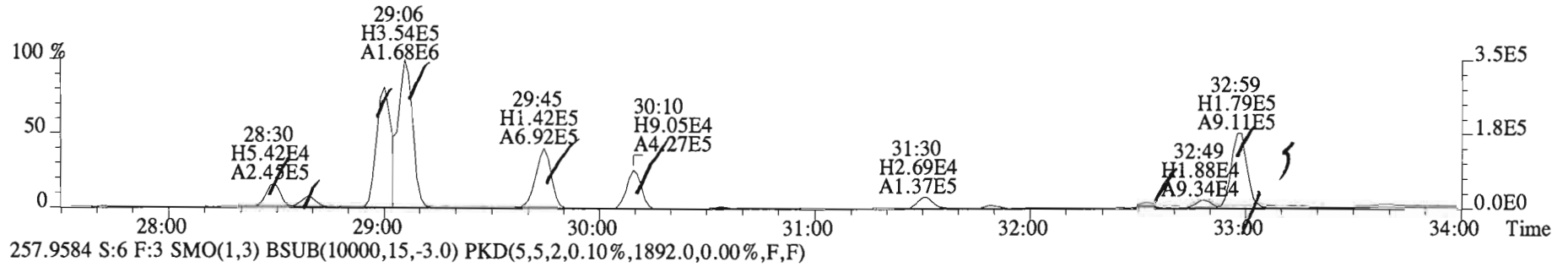
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2680.0,0.00%,F,F)



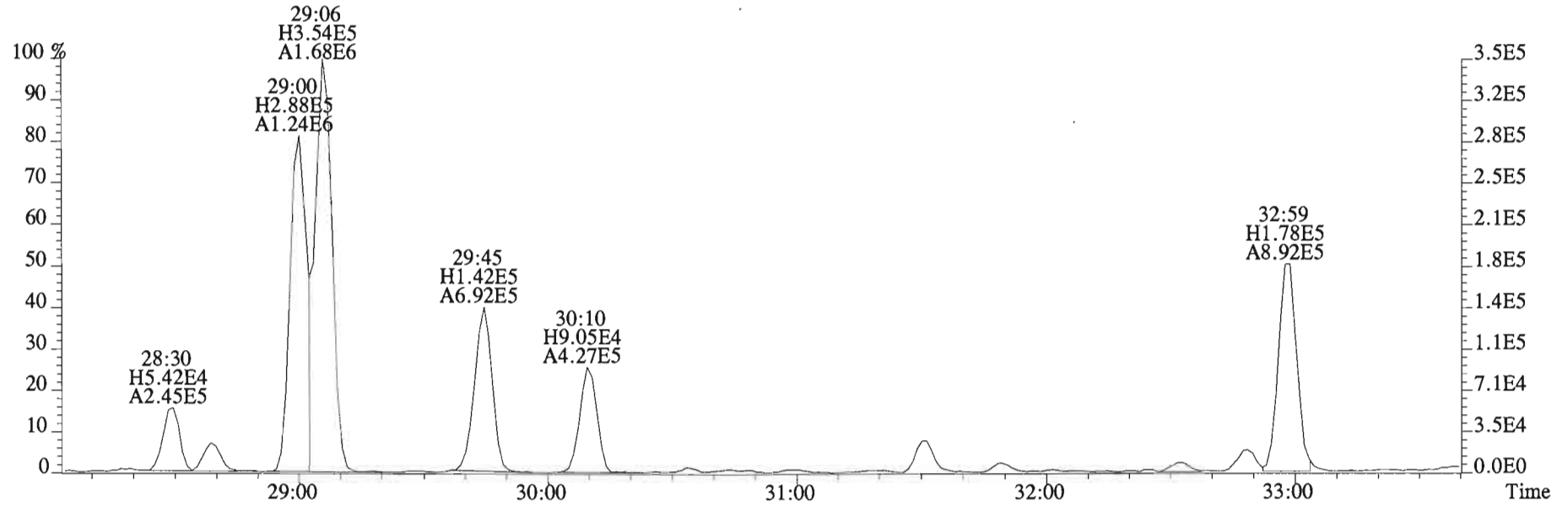
257.9584 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1792.0,0.00%,F,F)



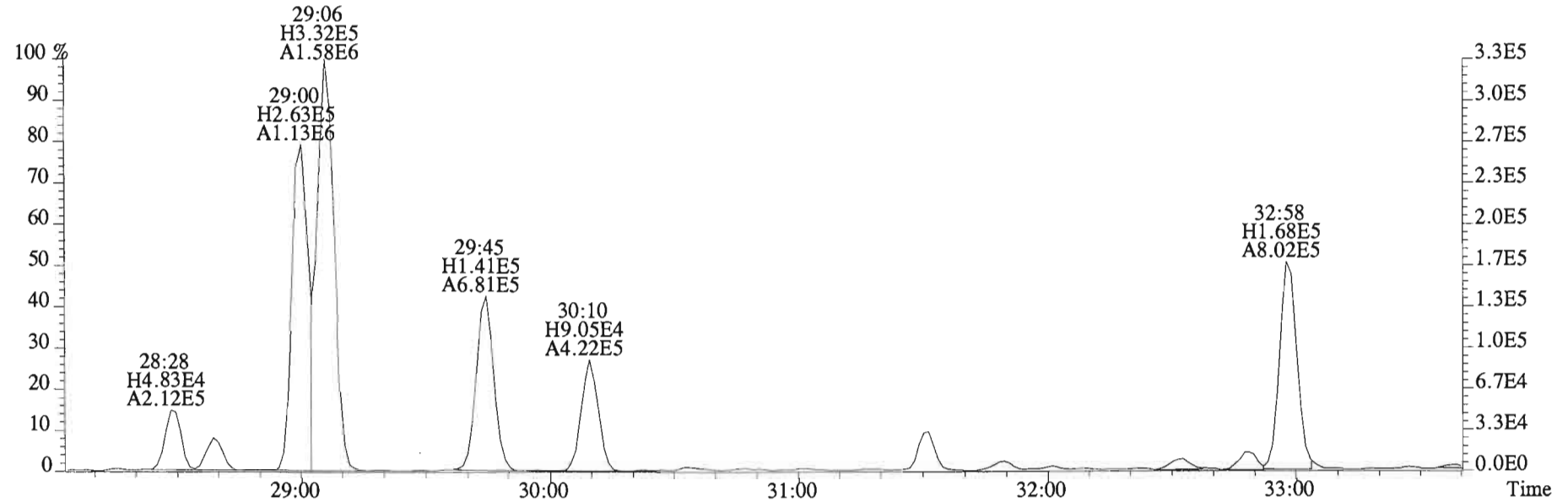
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2496.0,0.00%,F,F)



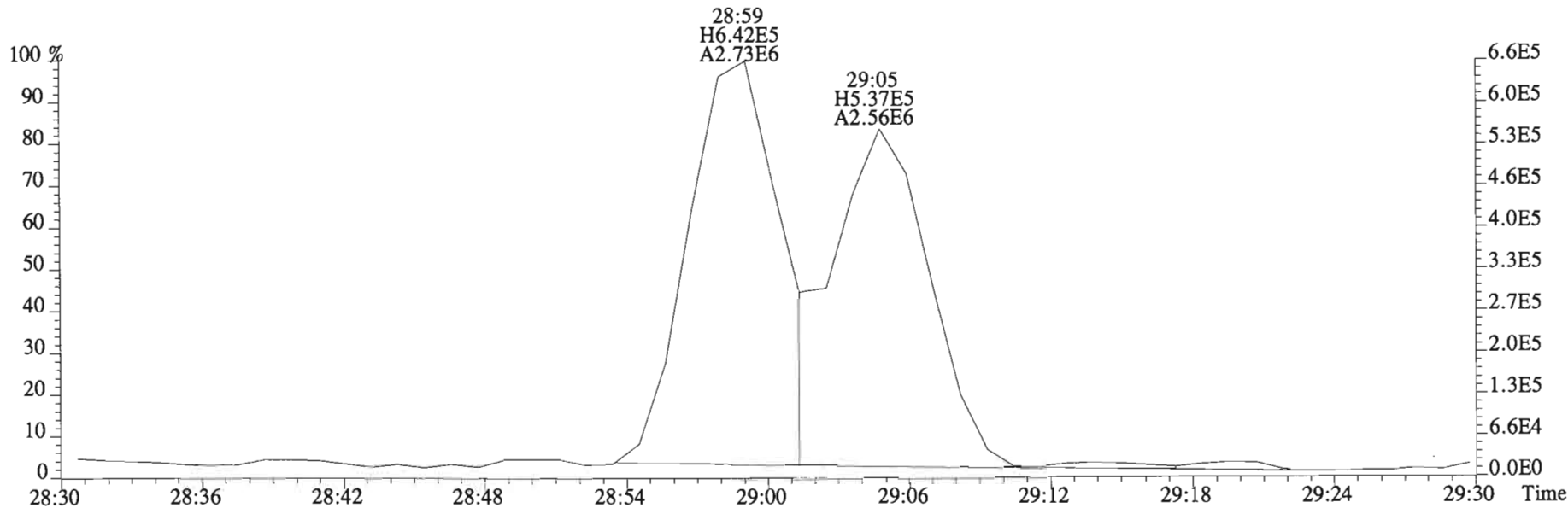
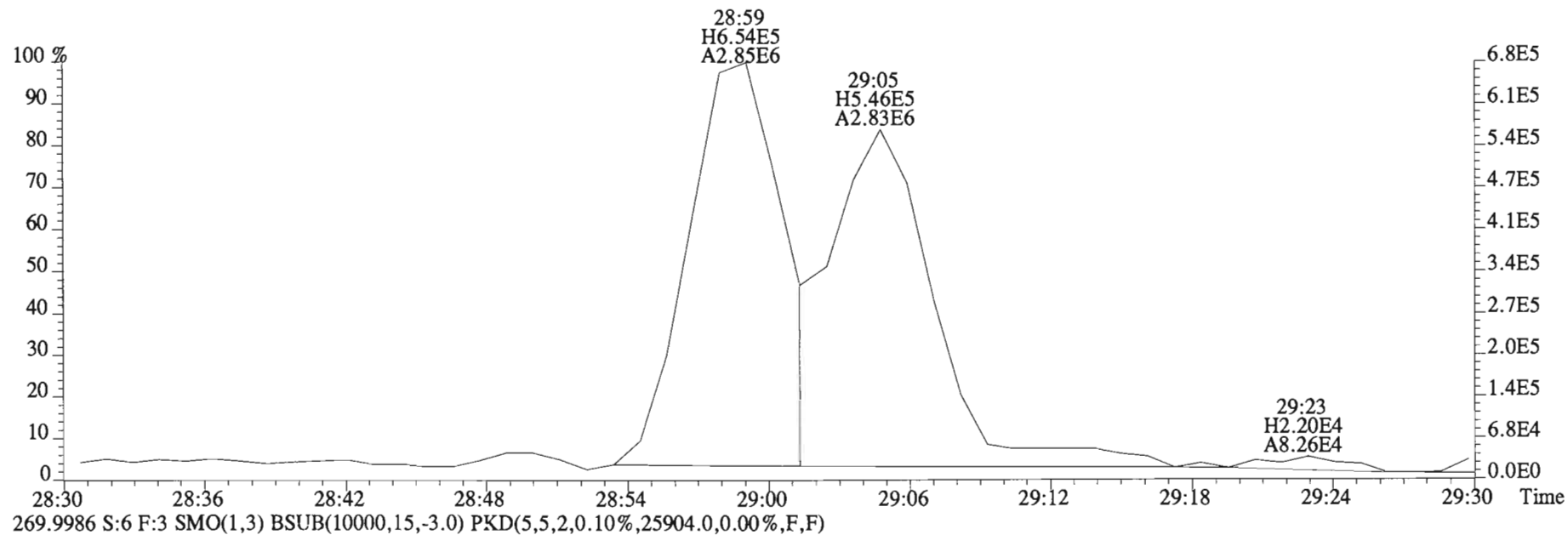
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2496.0,0.00%,F,F)



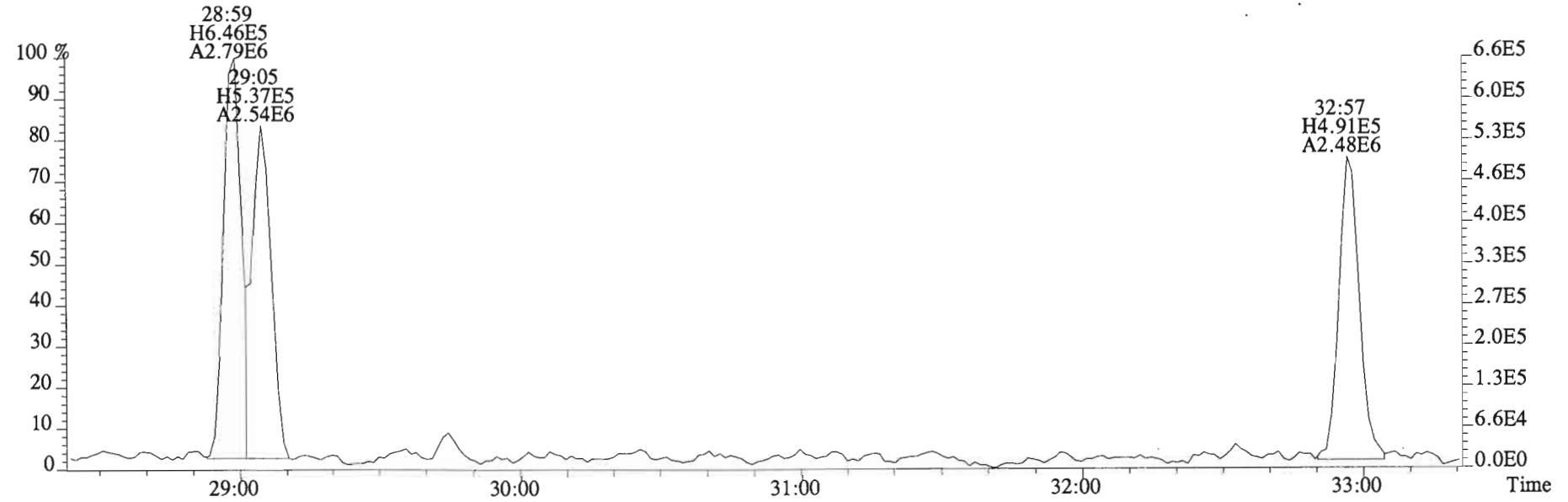
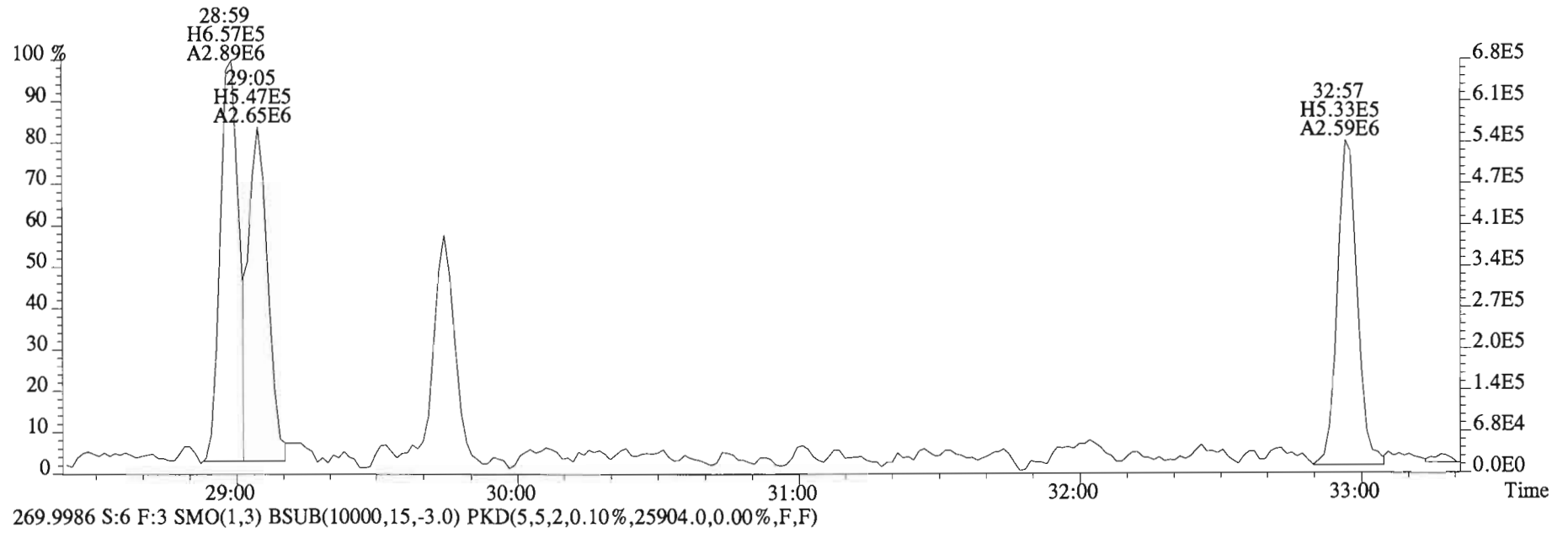
257.9584 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1892.0,0.00%,F,F)



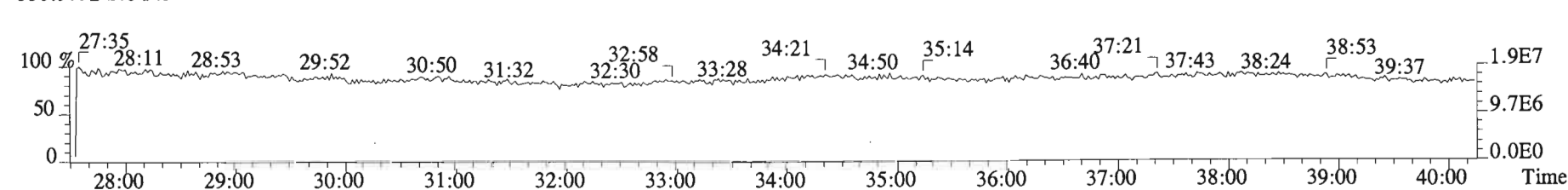
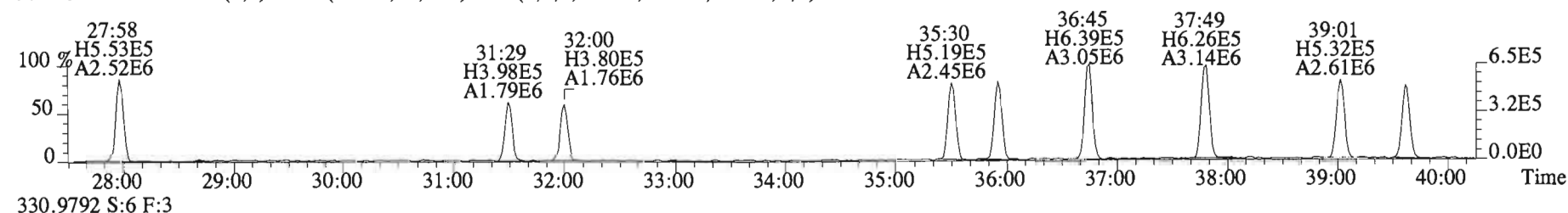
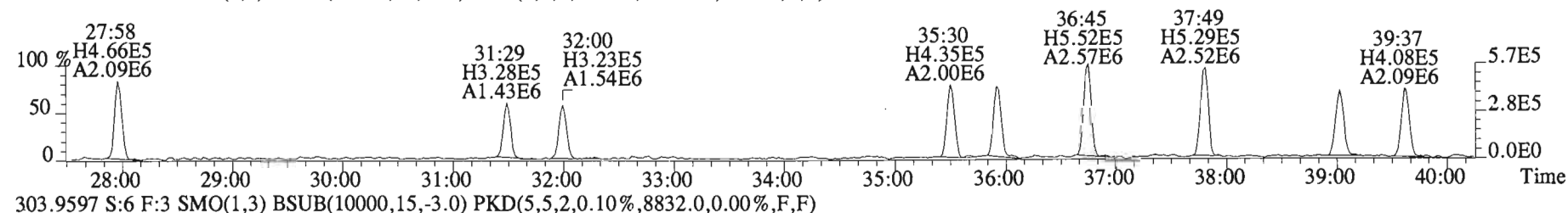
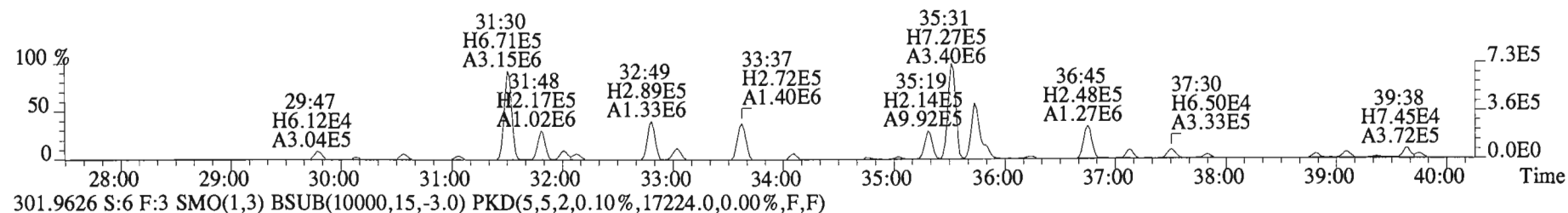
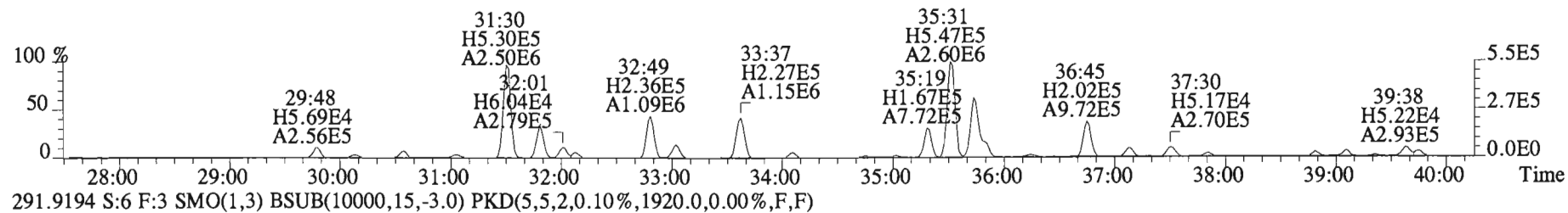
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,37796.0,0.00%,F,F)



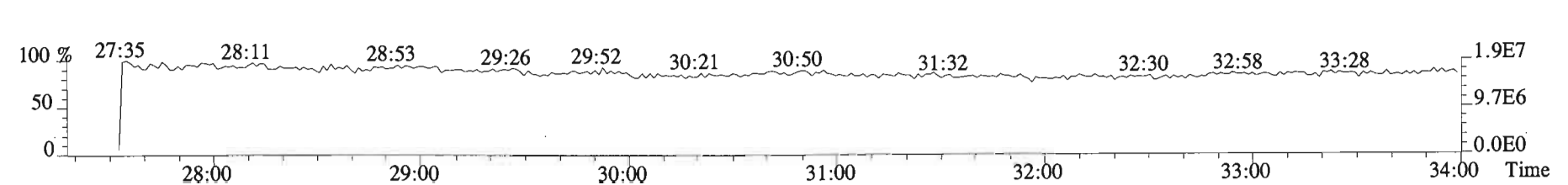
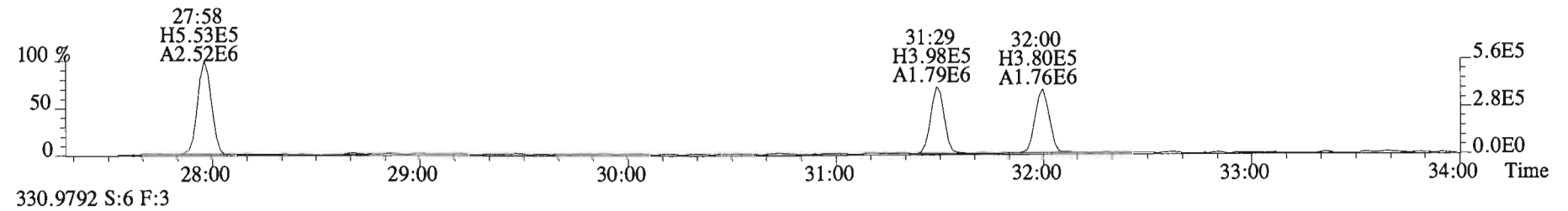
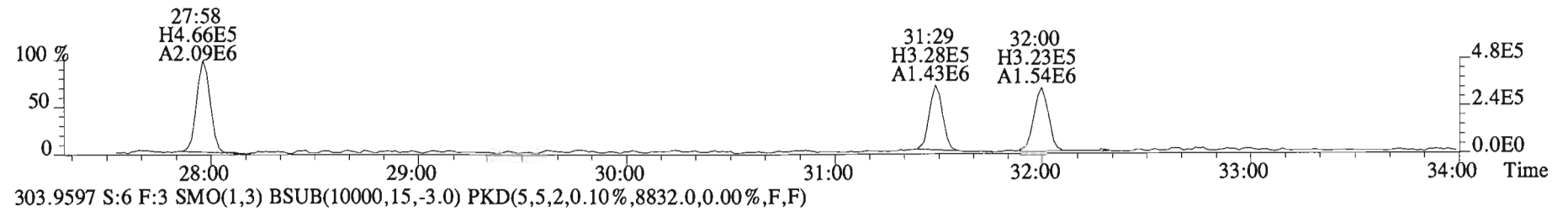
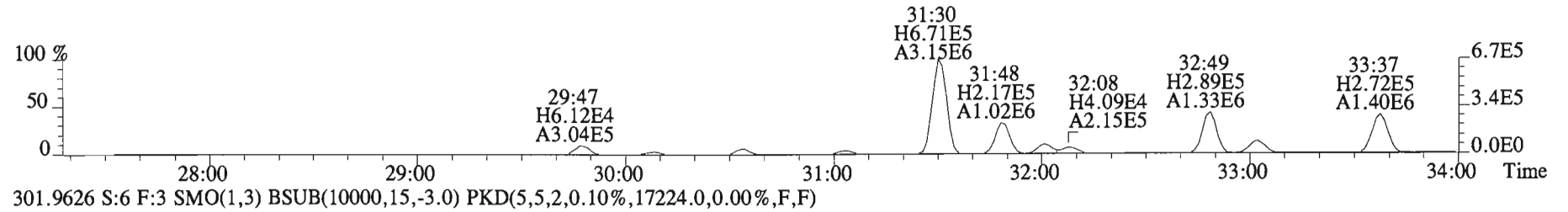
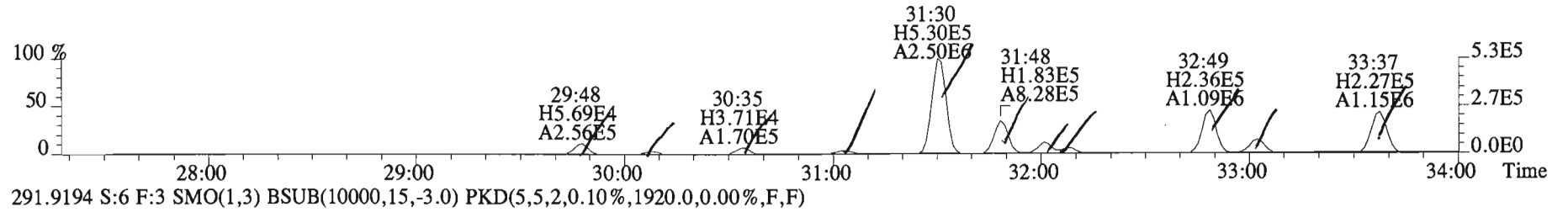
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,37796.0,0.00%,F,F)



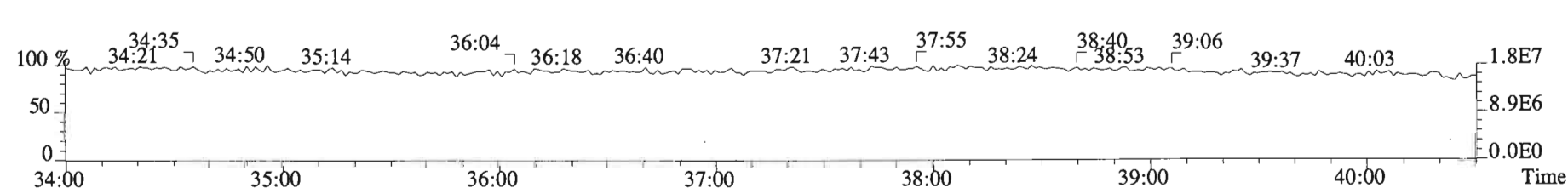
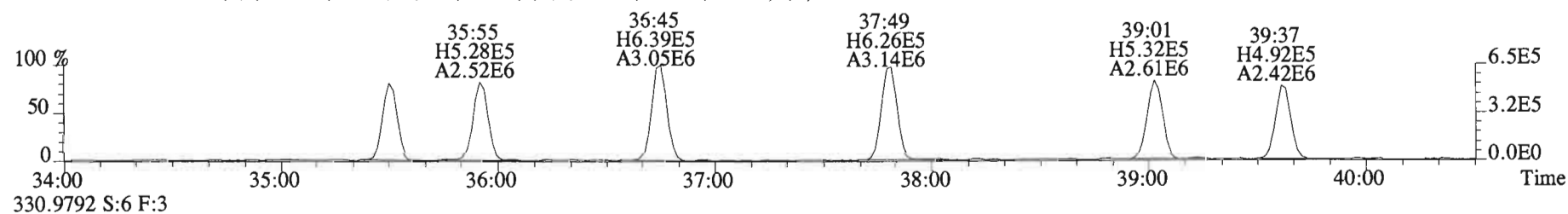
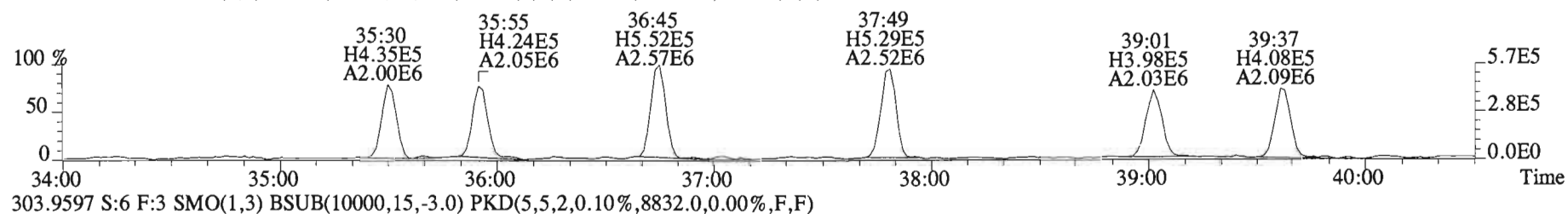
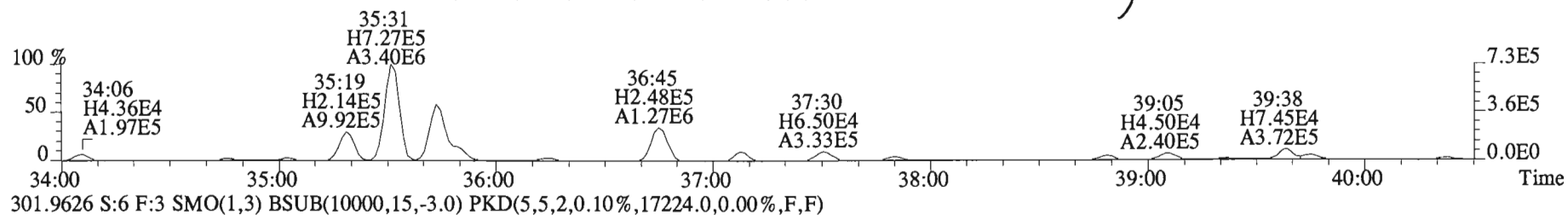
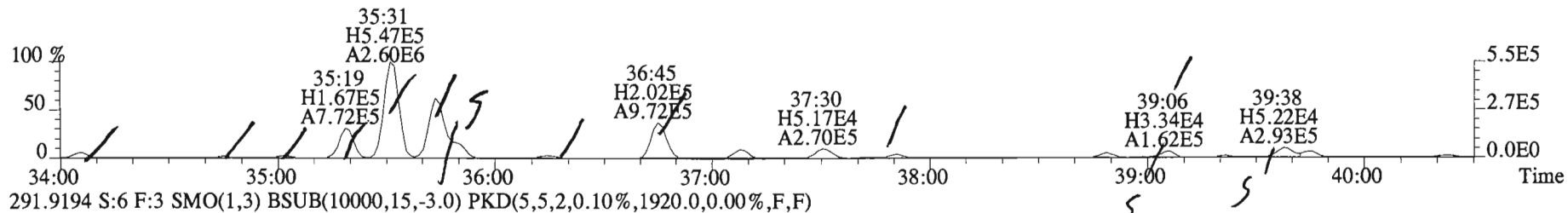
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
 289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2192.0,0.00%,F,F)



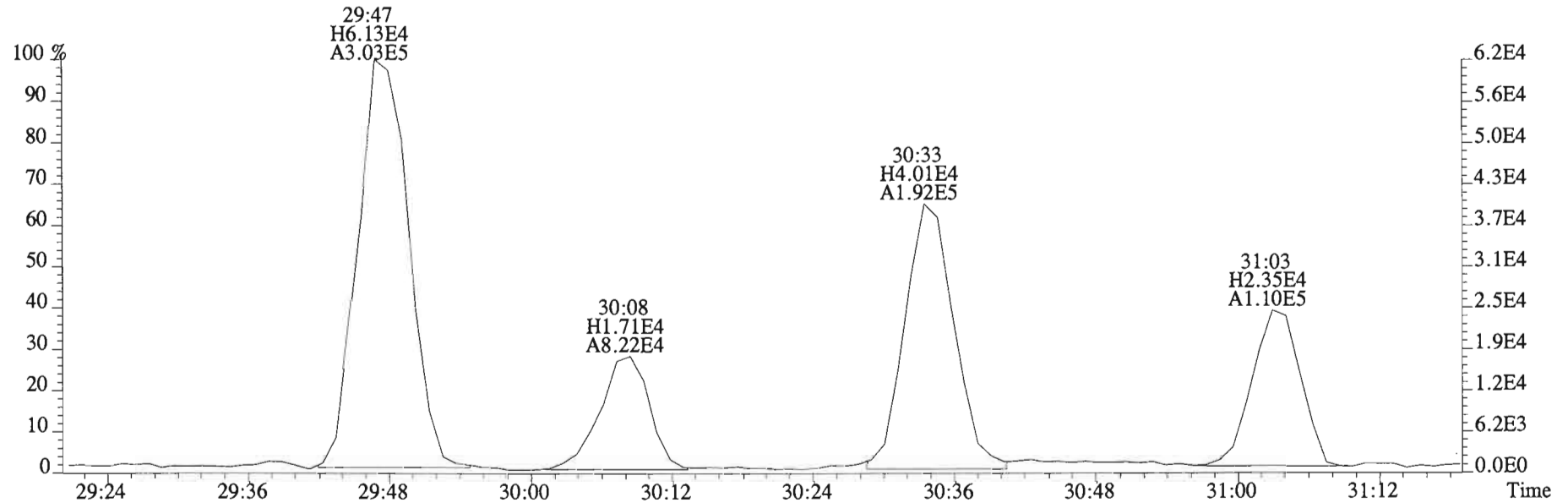
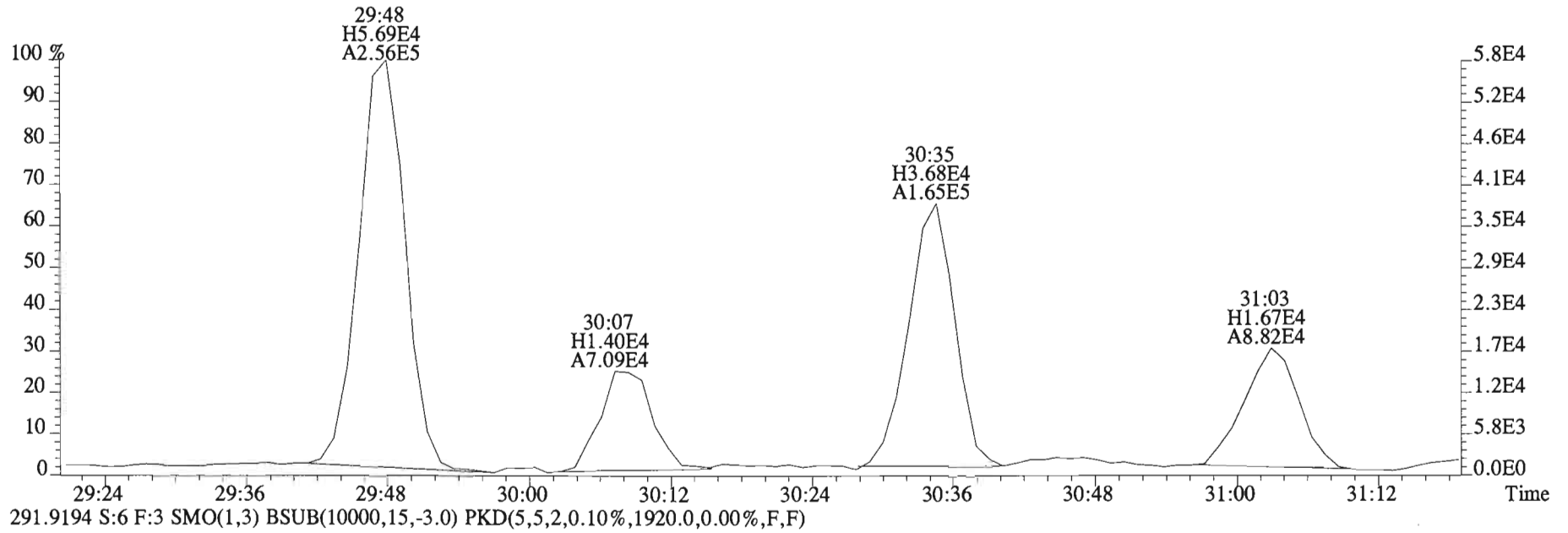
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2192.0,0.00%,F,F)



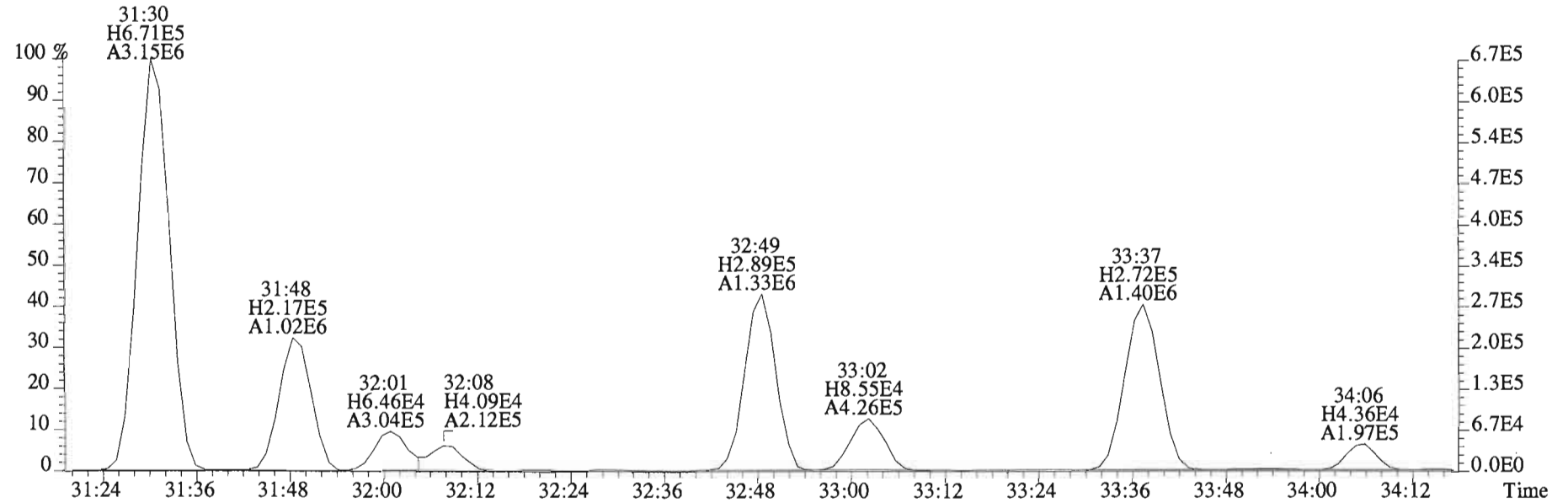
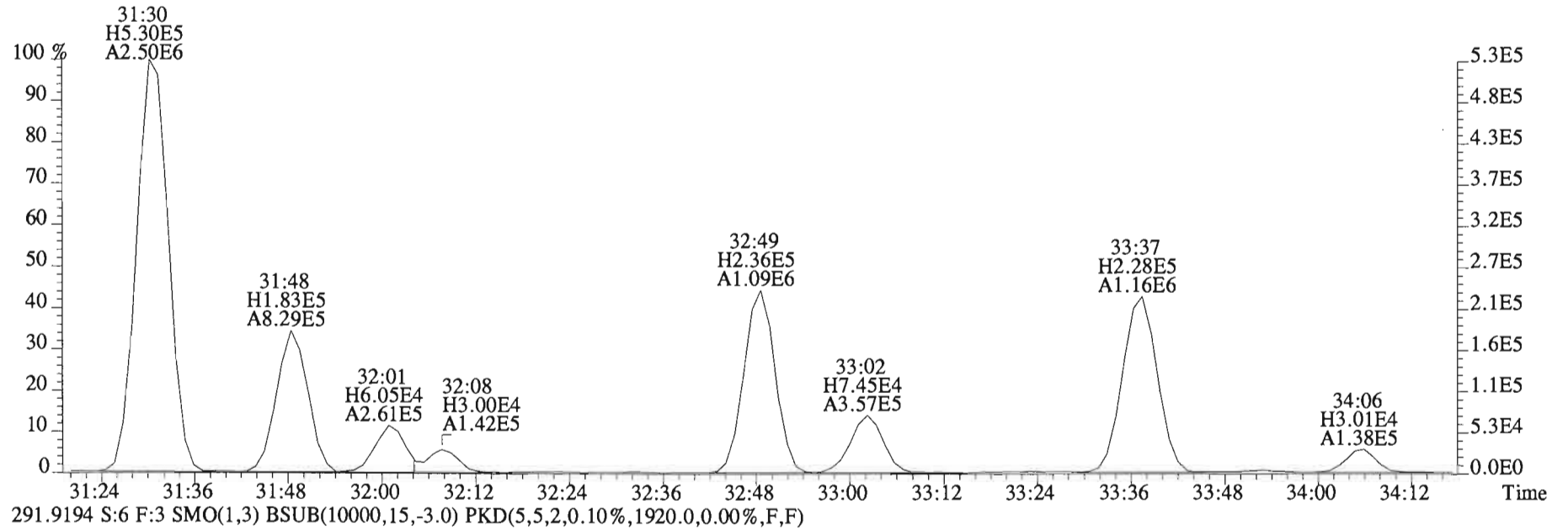
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 Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
 289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2192.0,0.00%,F,F)



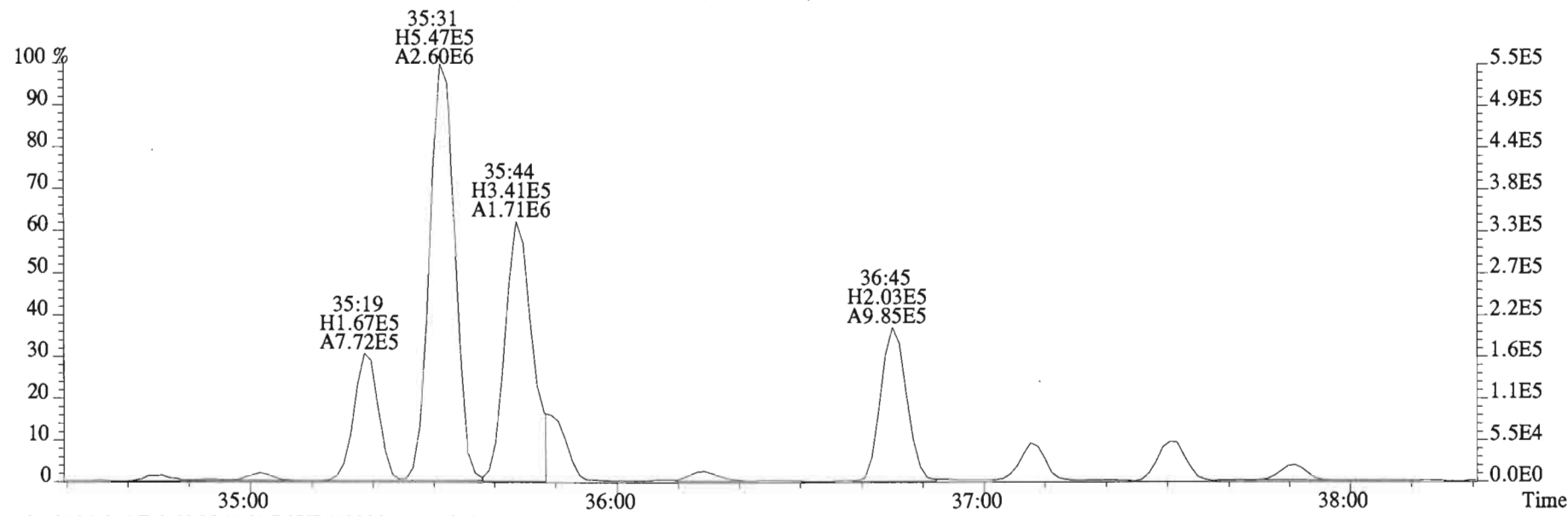
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2192.0,0.00%,F,F)



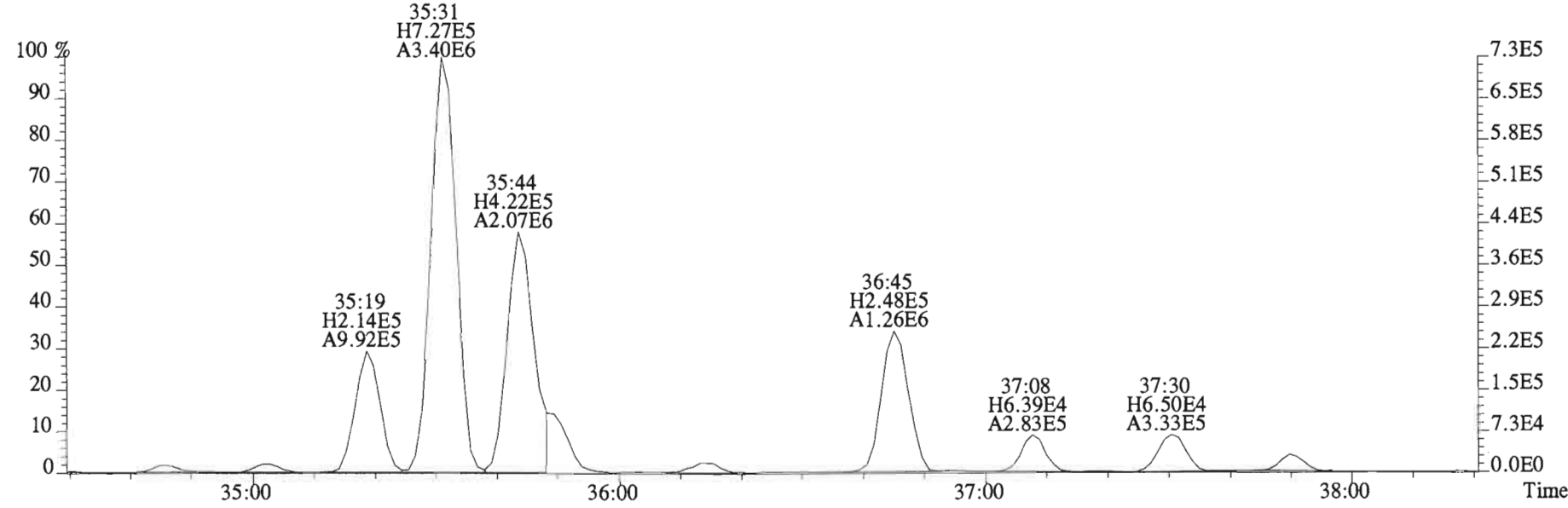
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 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
 289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2192.0,0.00%,F,F)



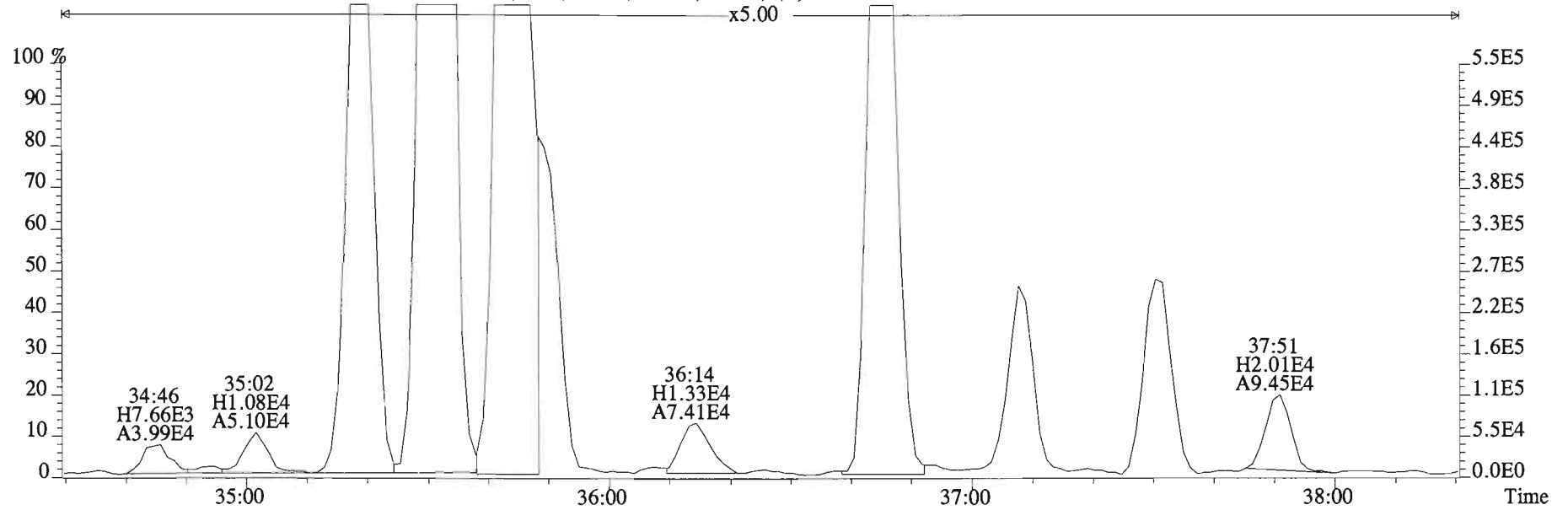
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 289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2192.0,0.00%,F,F)



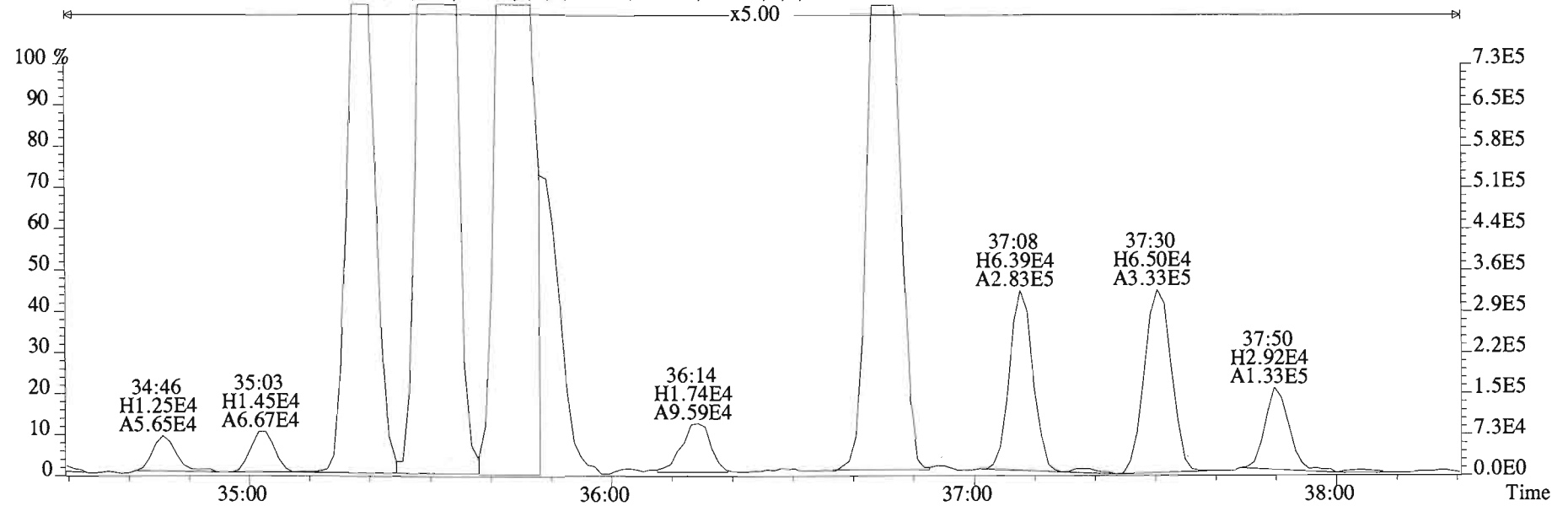
291.9194 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1920.0,0.00%,F,F)



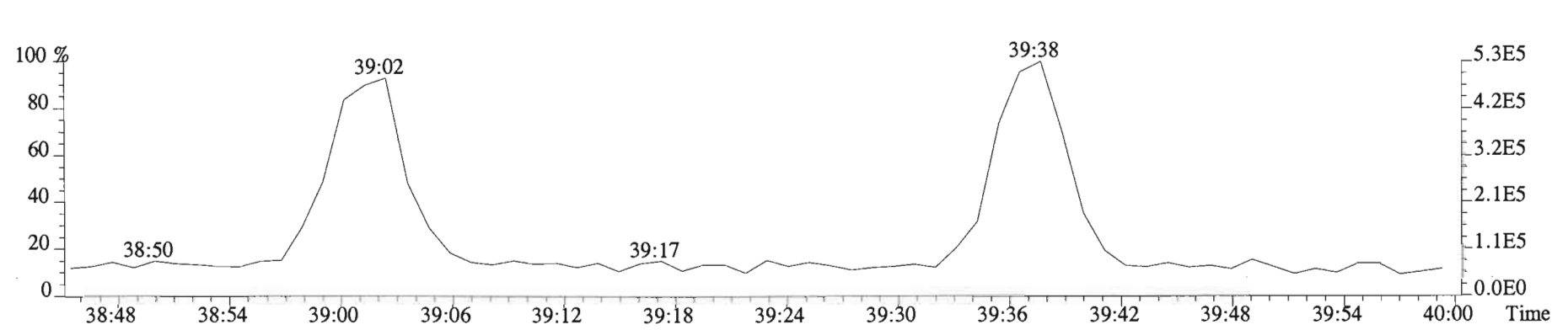
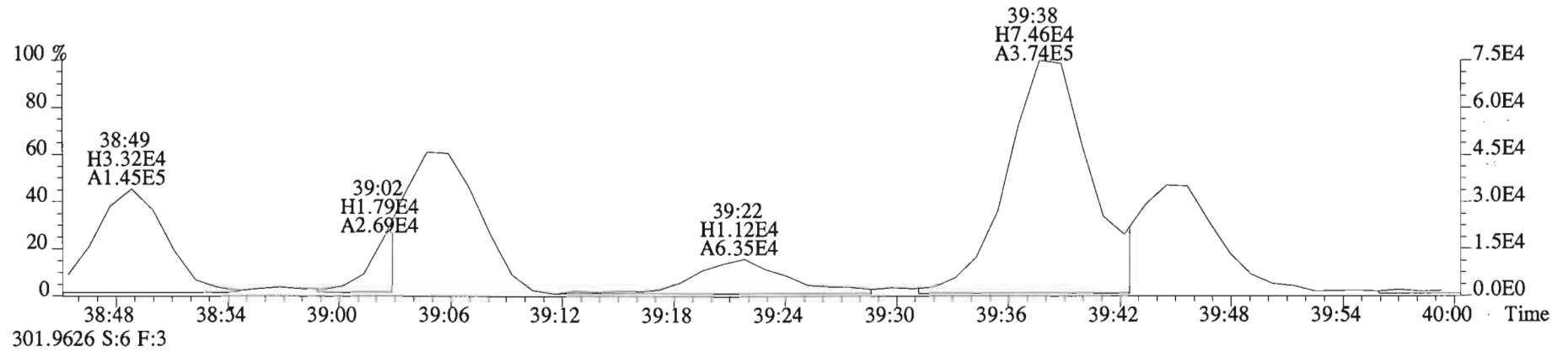
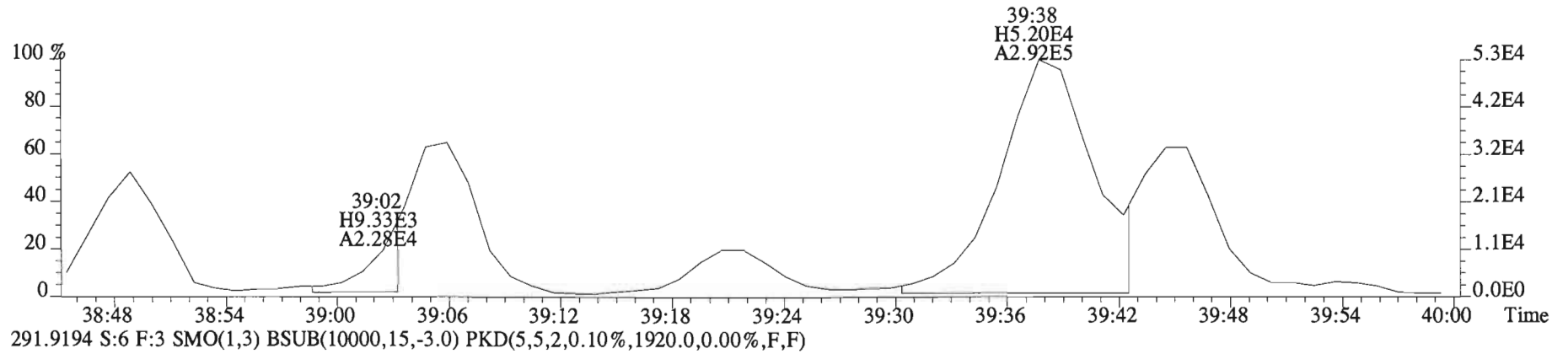
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2192.0,0.00%,F,F)



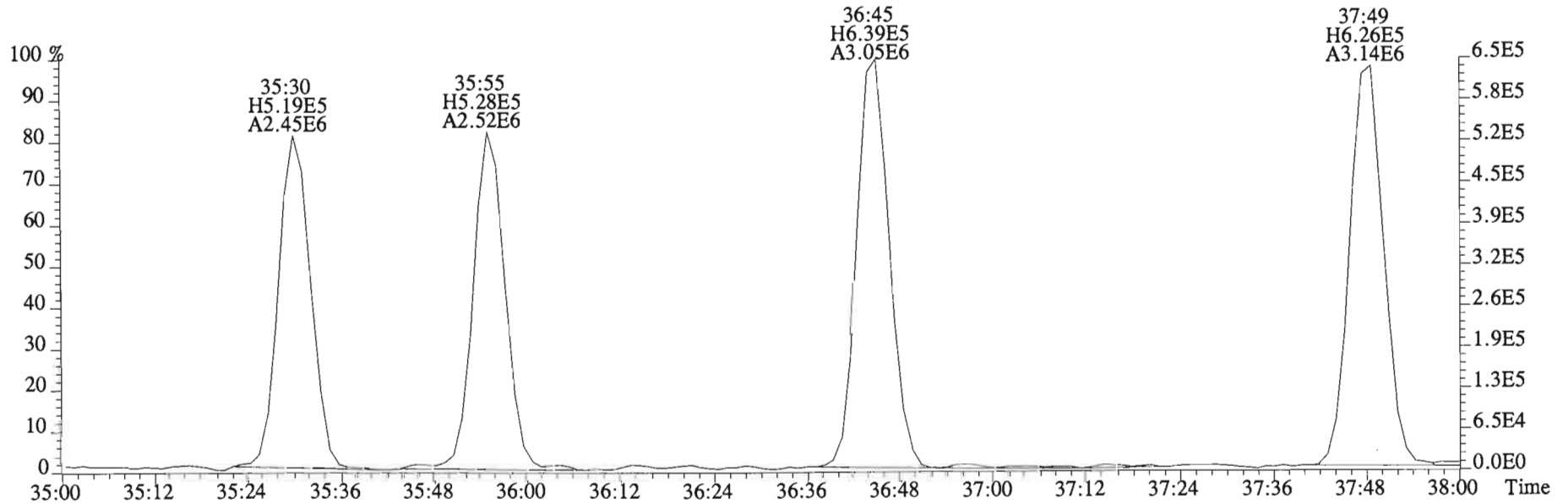
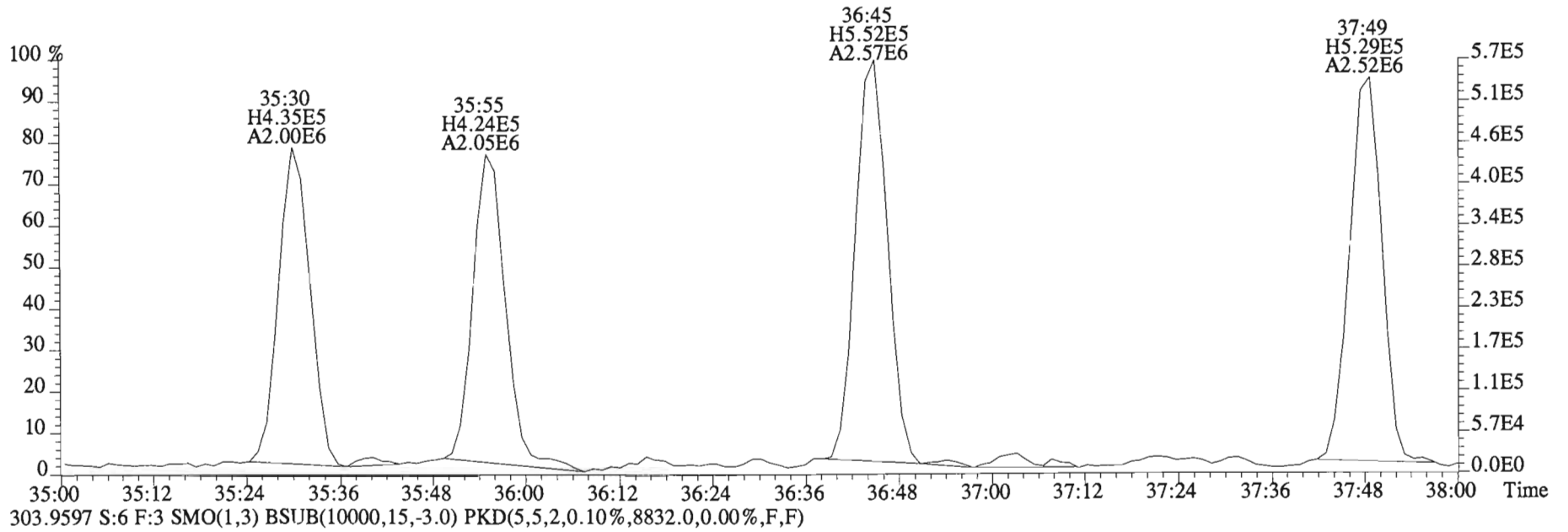
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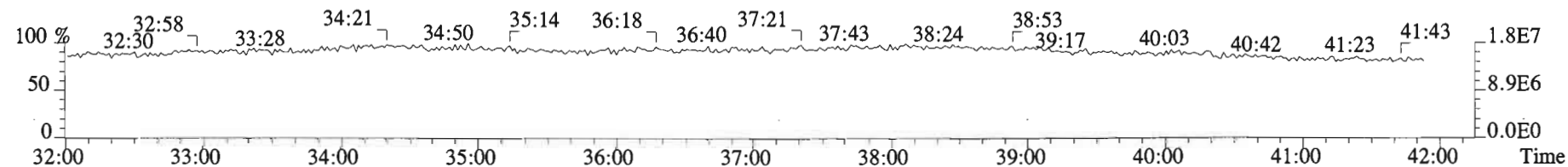
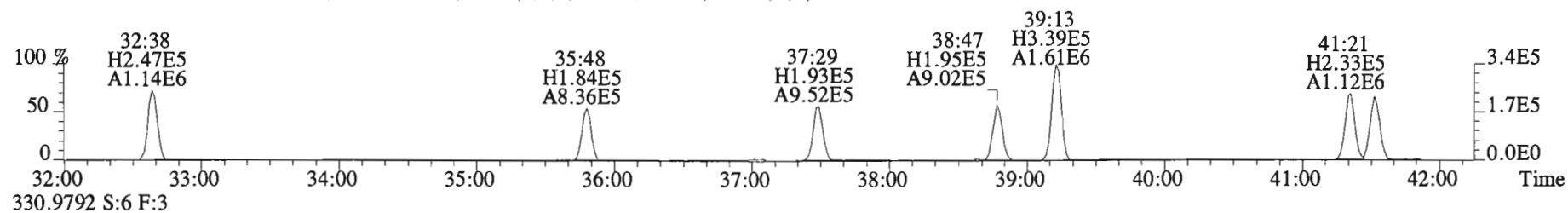
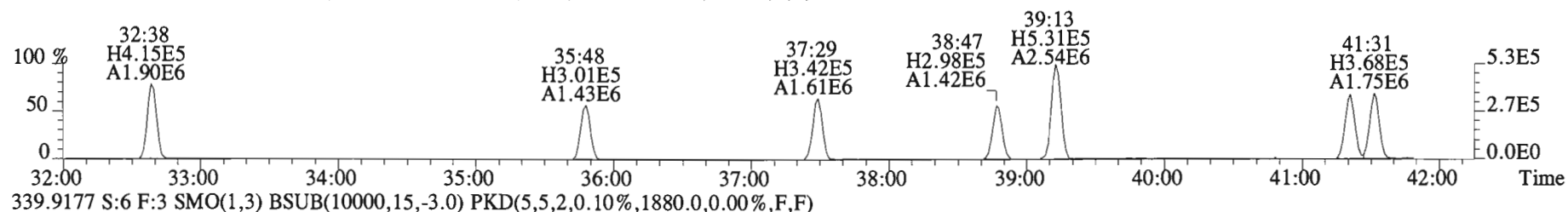
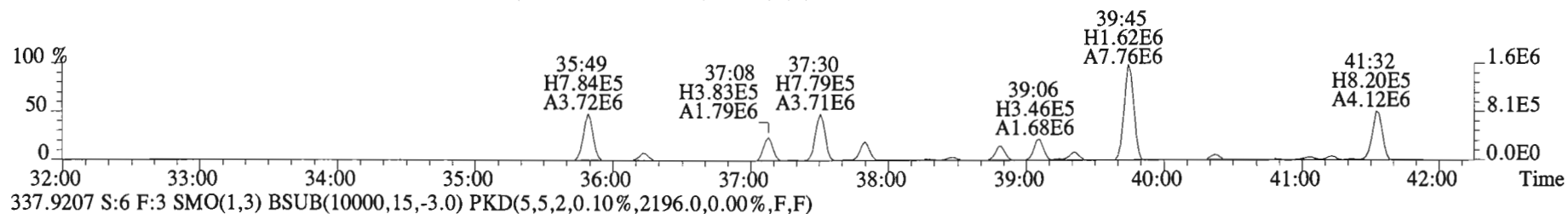
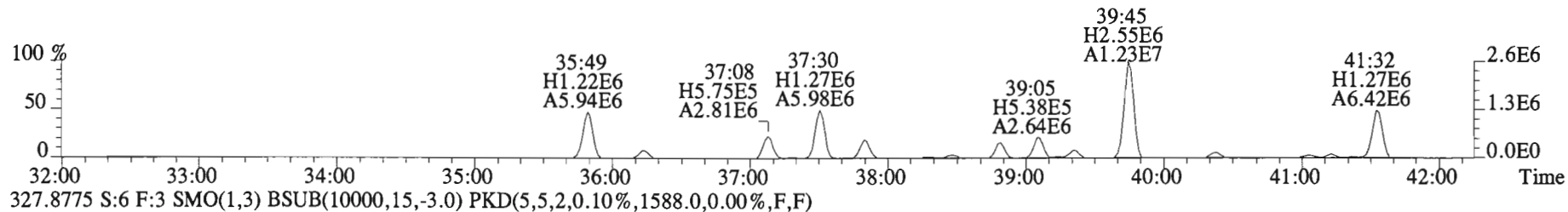
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2192.0,0.00%,F,F)



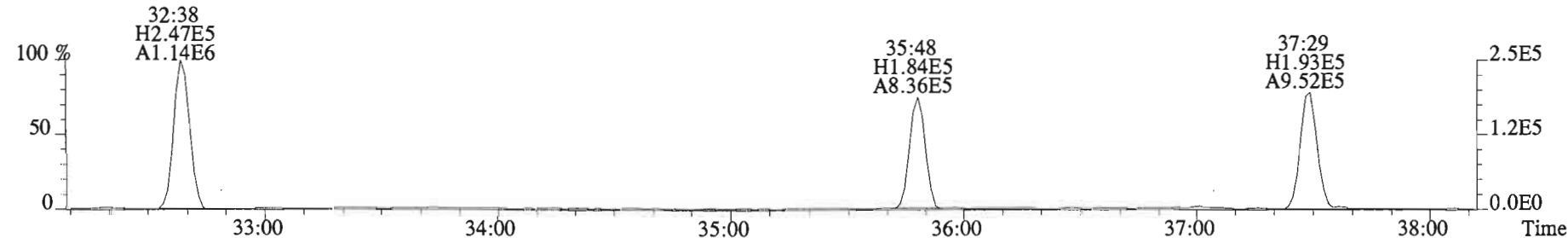
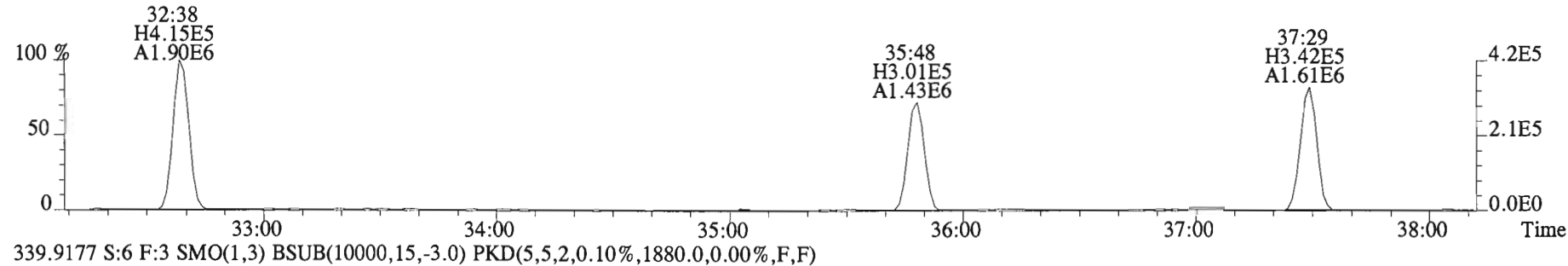
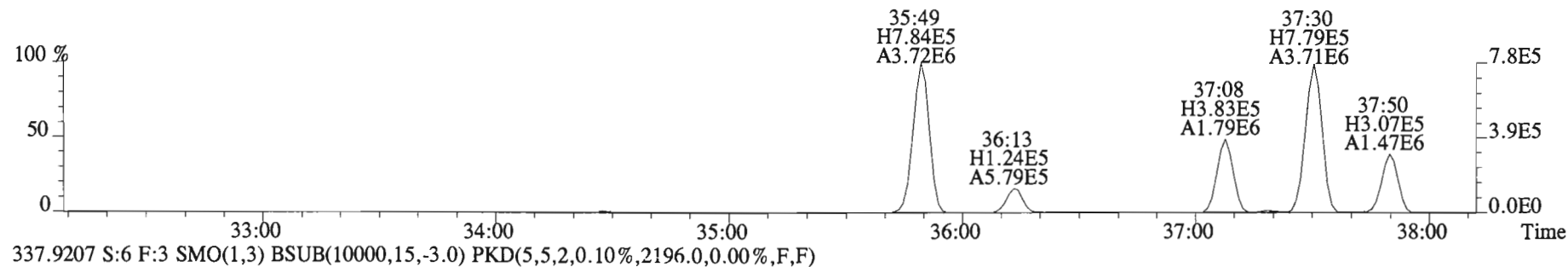
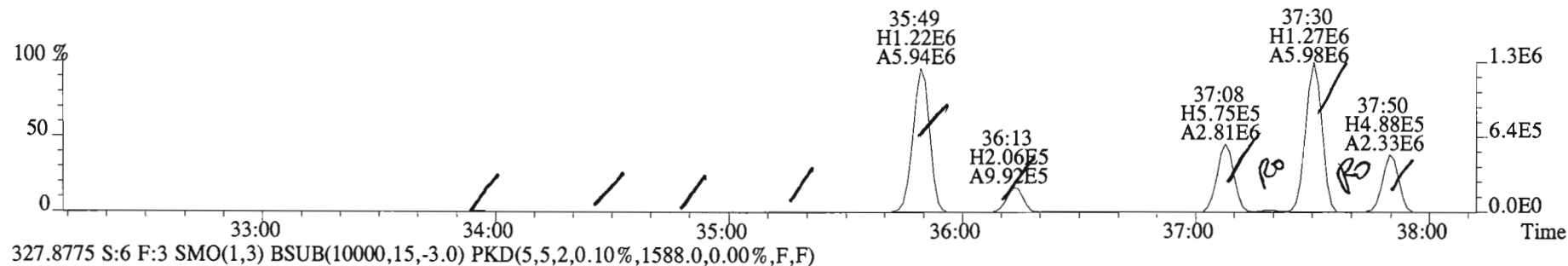
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,17224.0,0.00%,F,F)



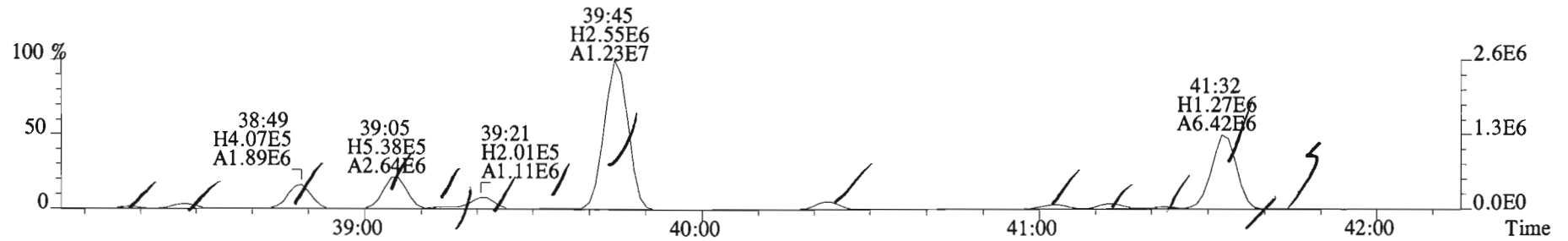
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1352.0,0.00%,F,F)



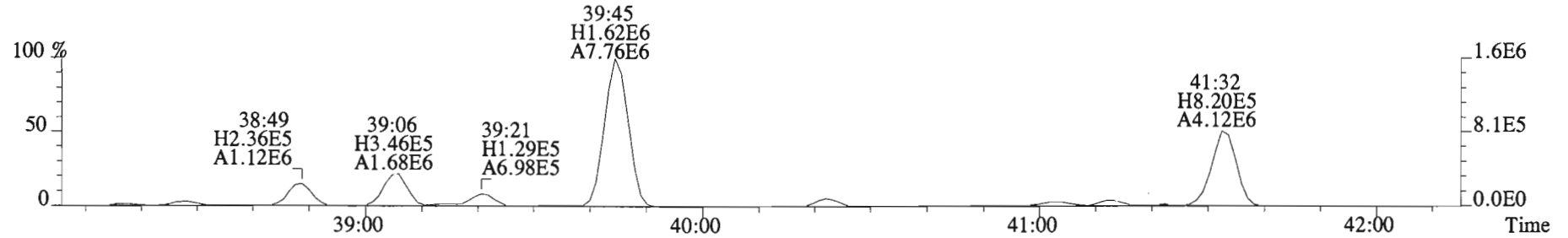
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
 325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1352.0,0.00%,F,F)



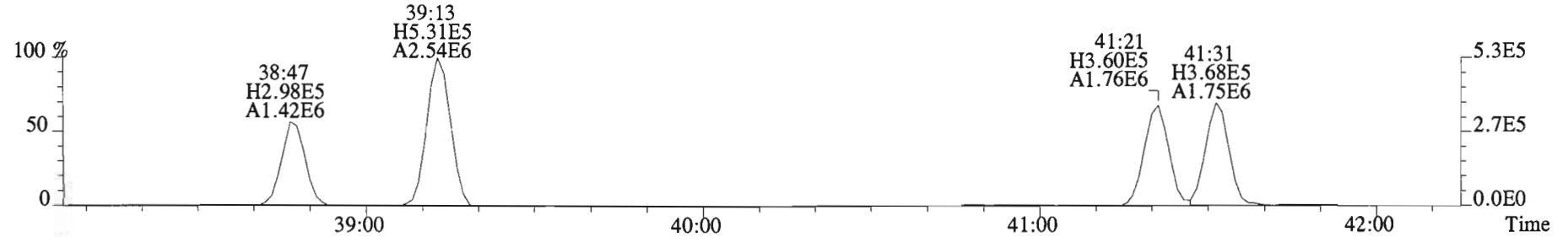
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1352.0,0.00%,F,F)



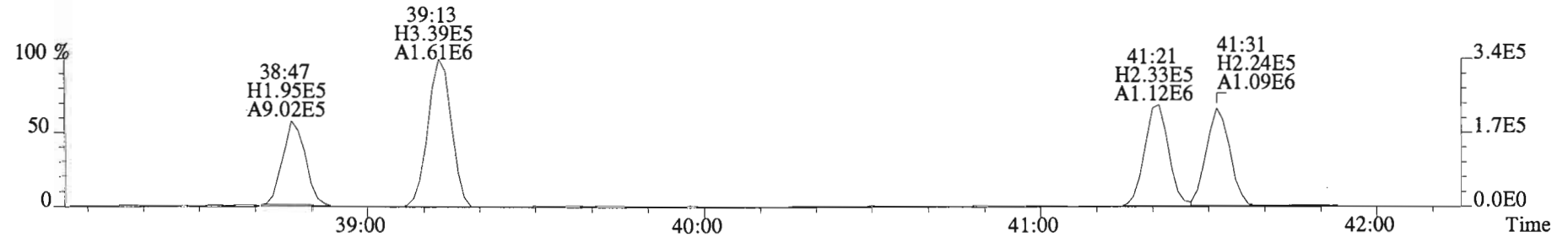
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1588.0,0.00%,F,F)



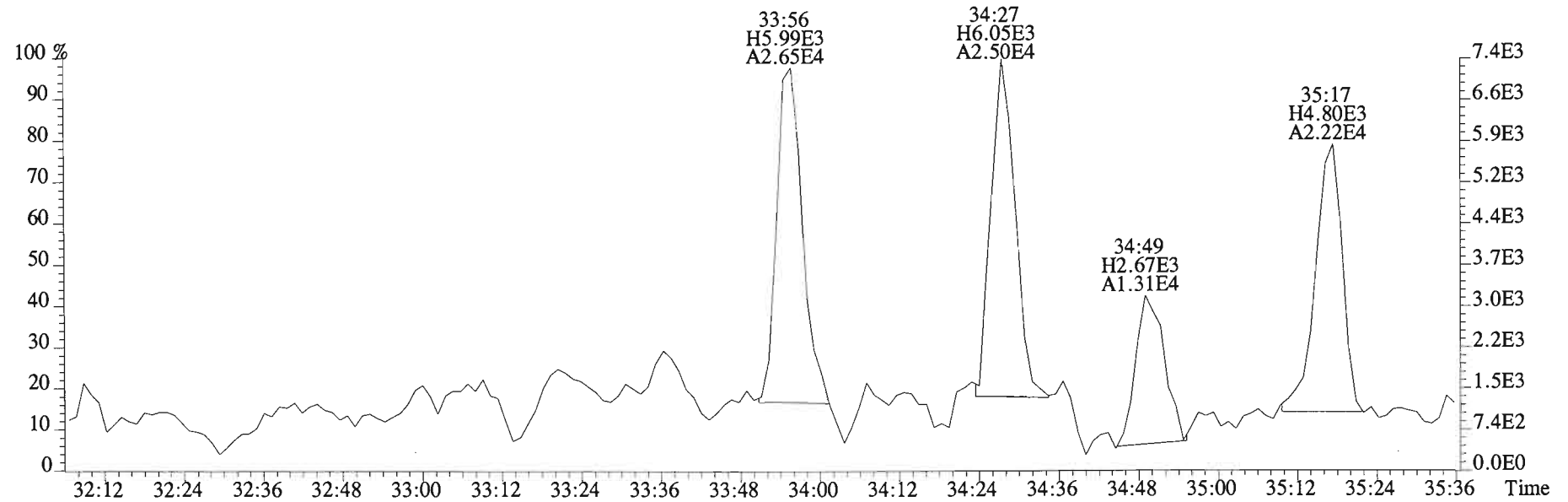
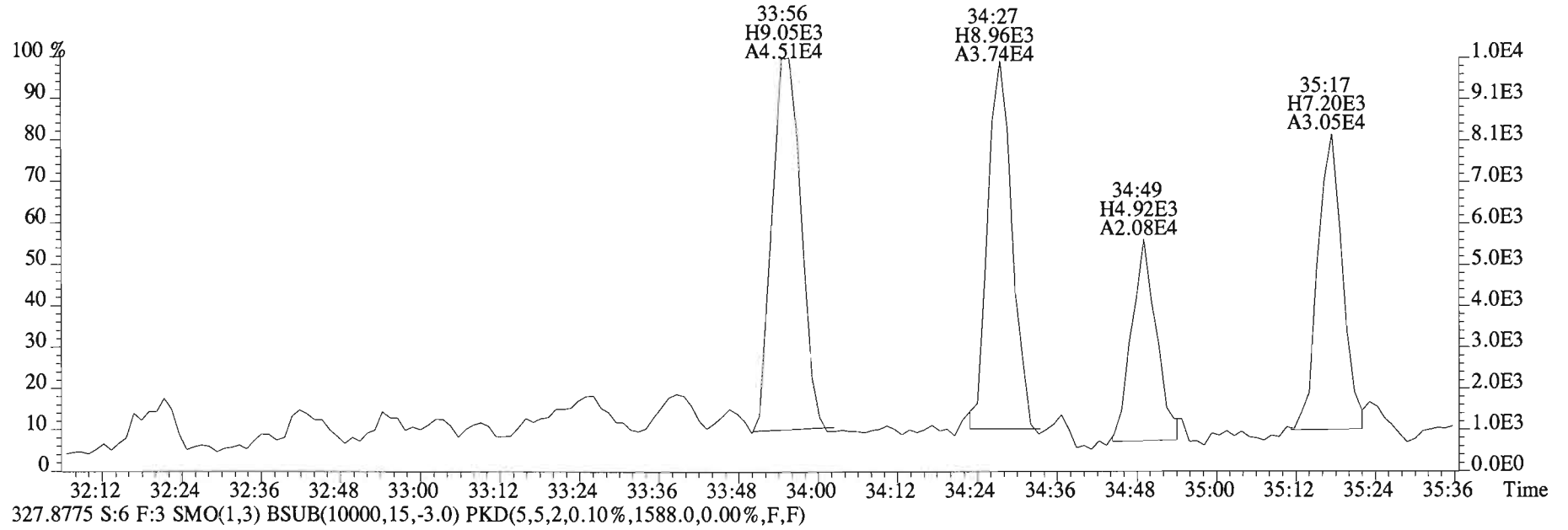
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2196.0,0.00%,F,F)



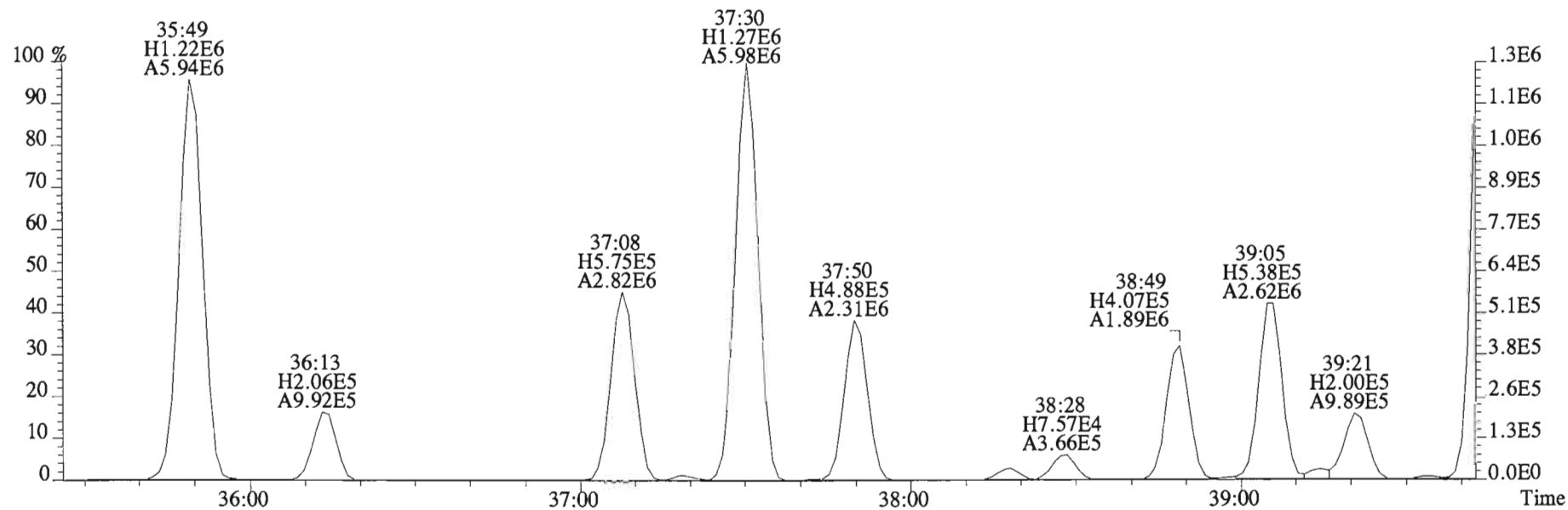
339.9177 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1880.0,0.00%,F,F)



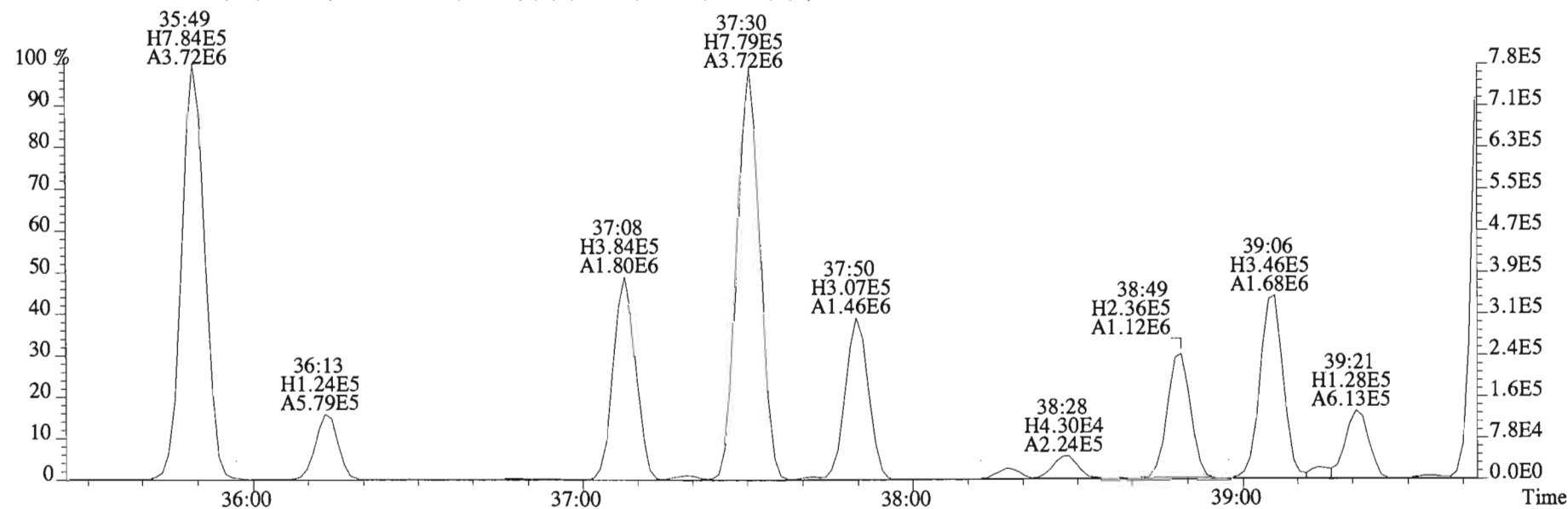
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1352.0,0.00%,F,F)



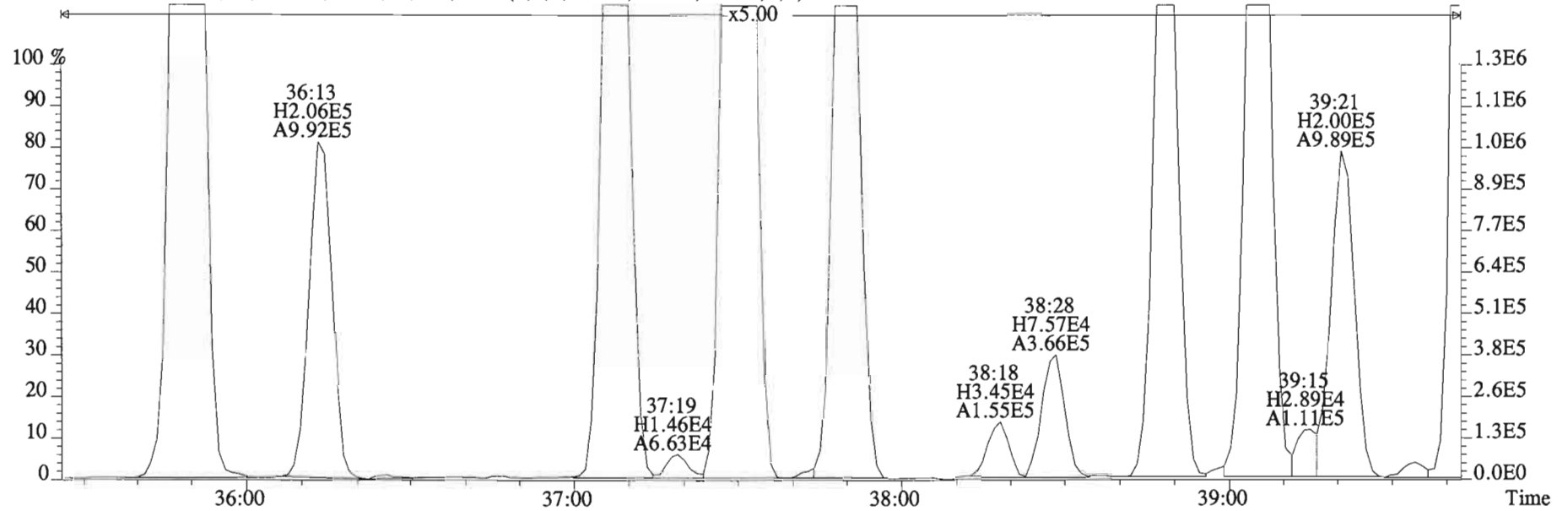
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 Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
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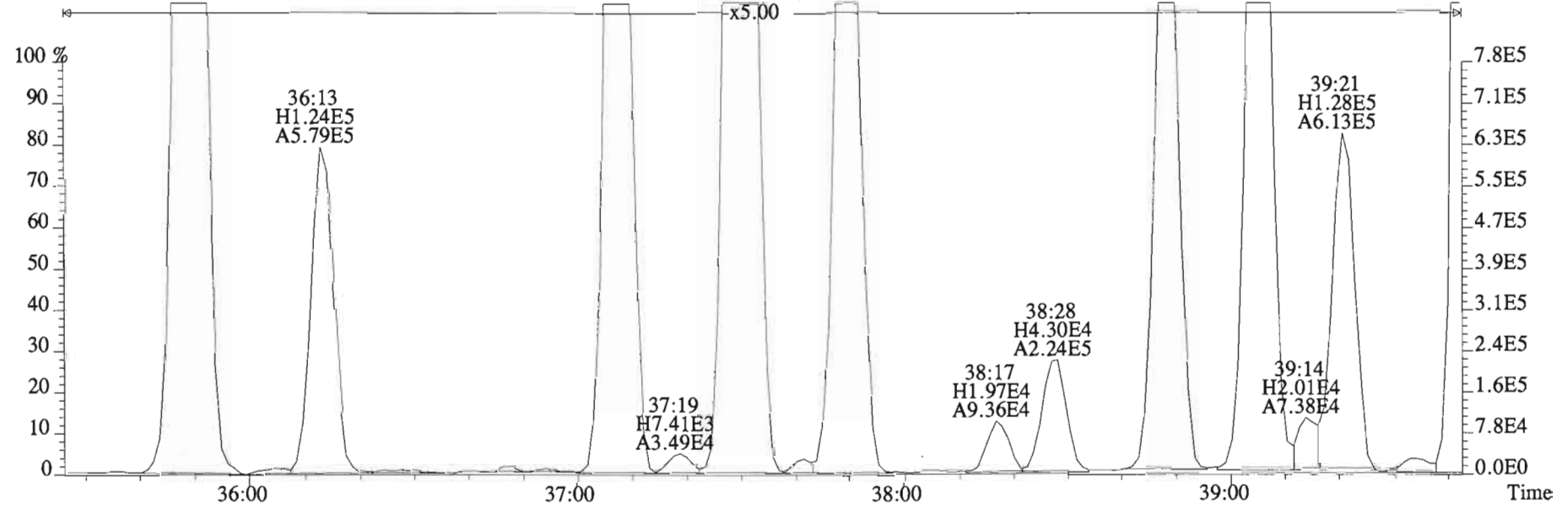
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1588.0,0.00%,F,F)



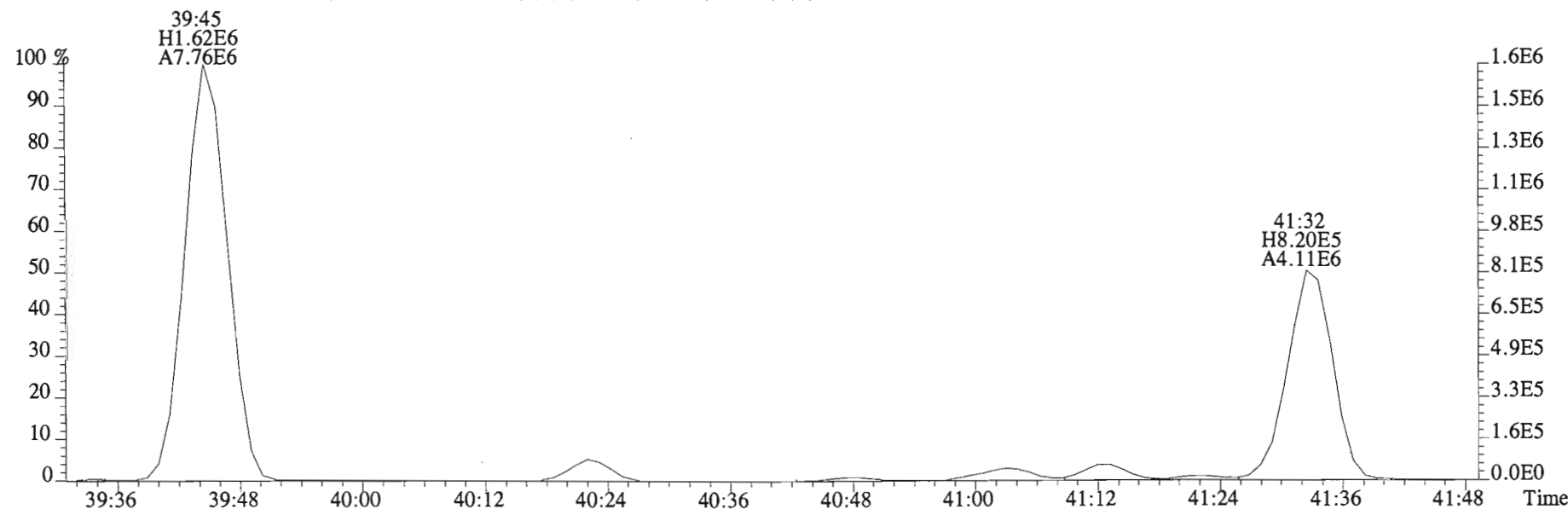
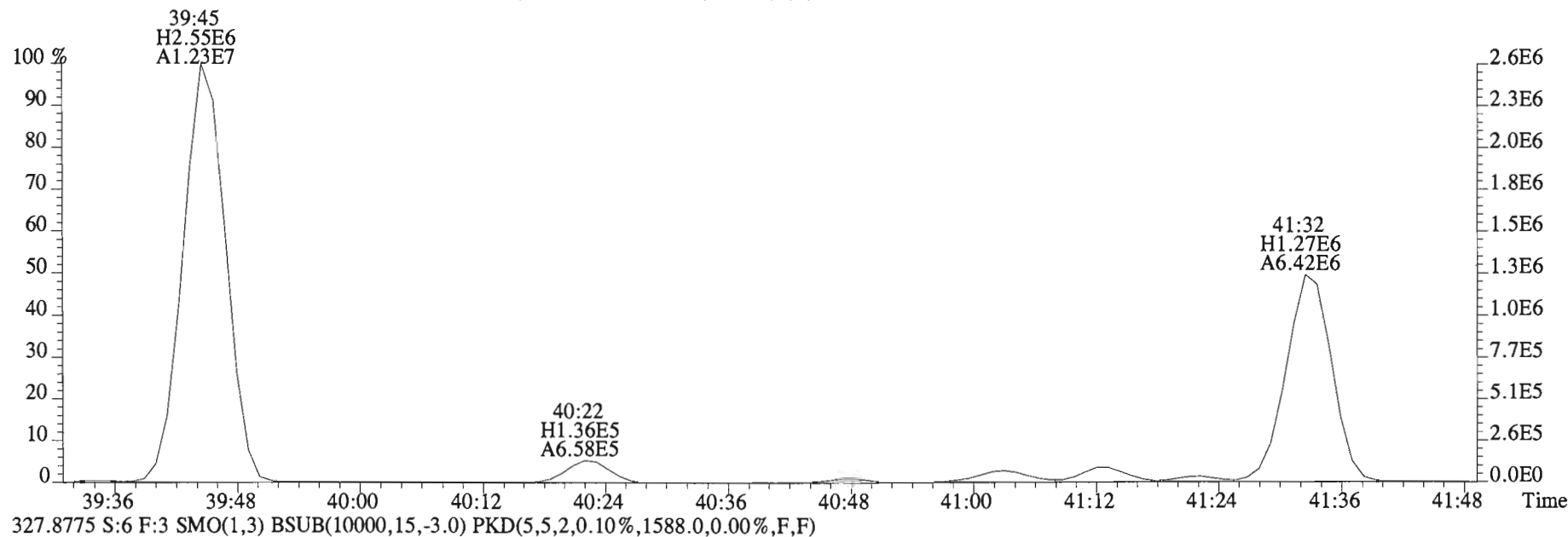
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
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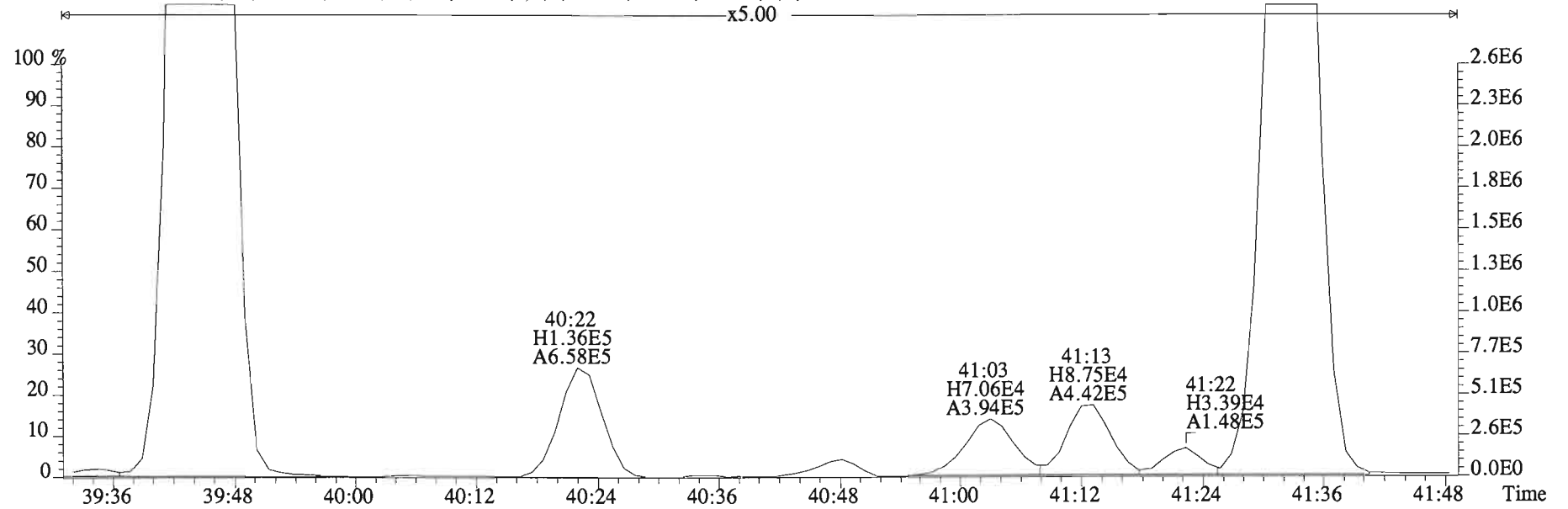
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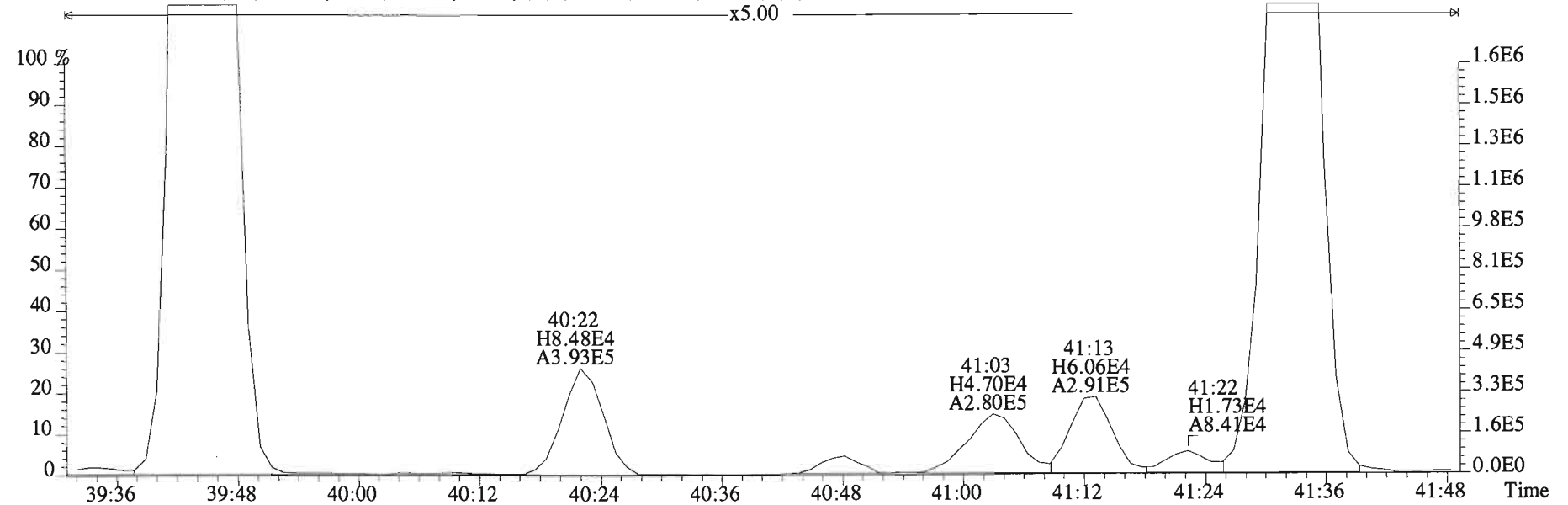
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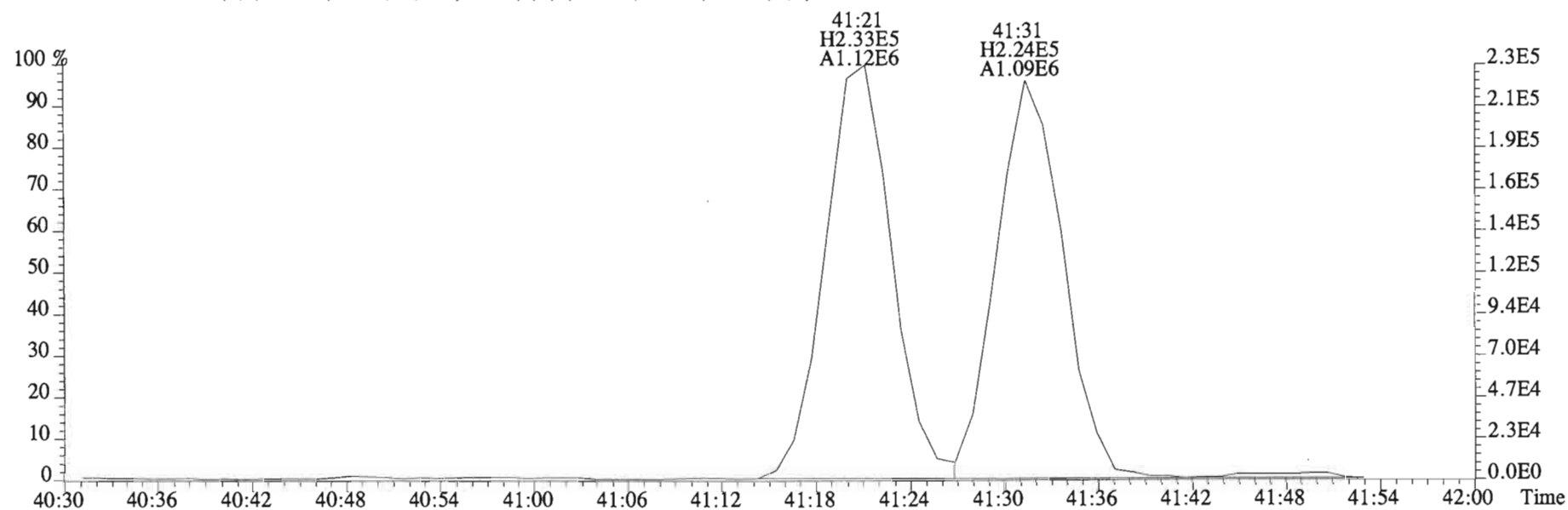
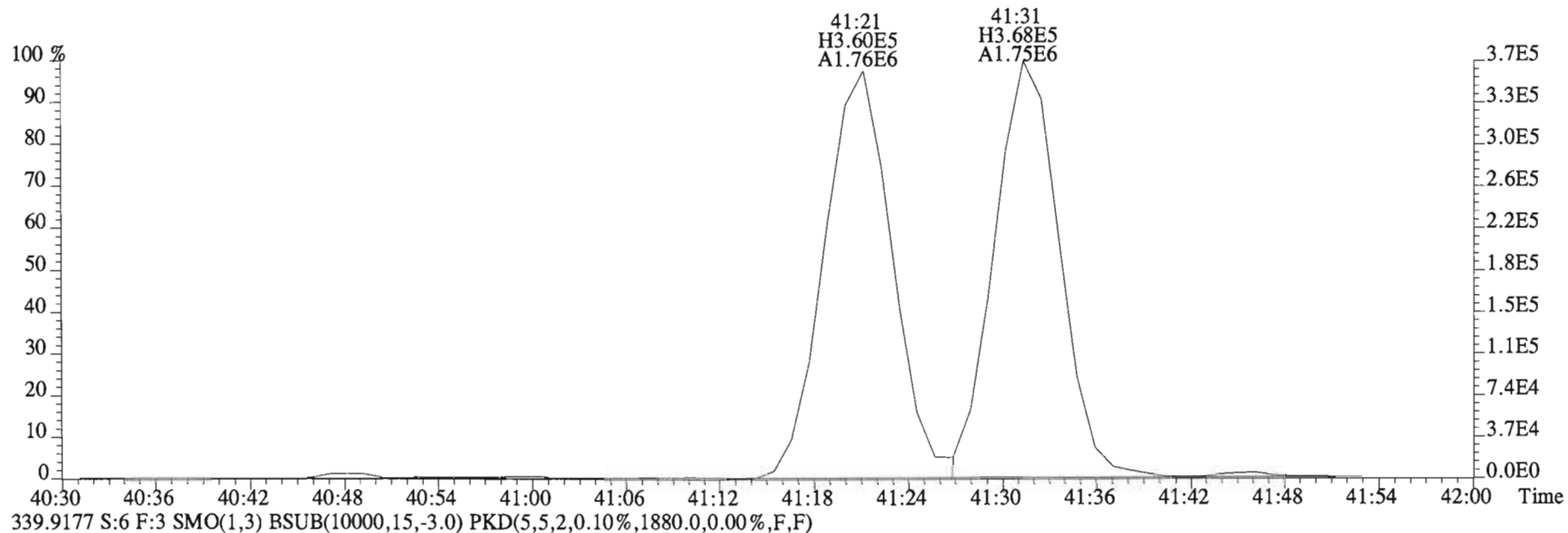
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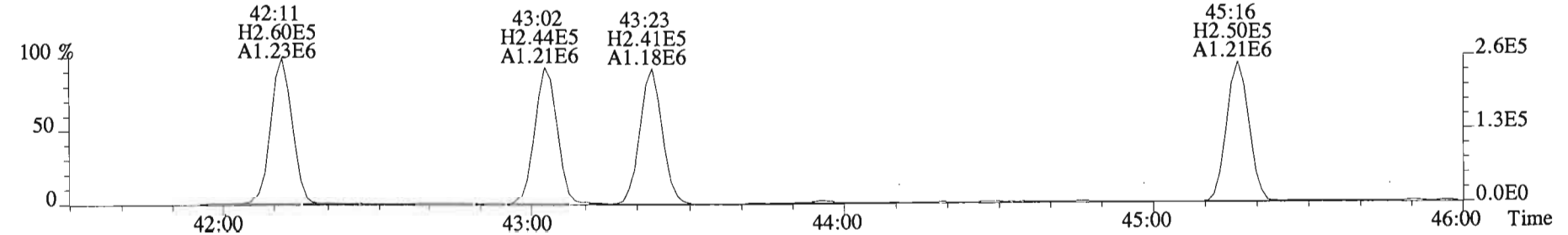
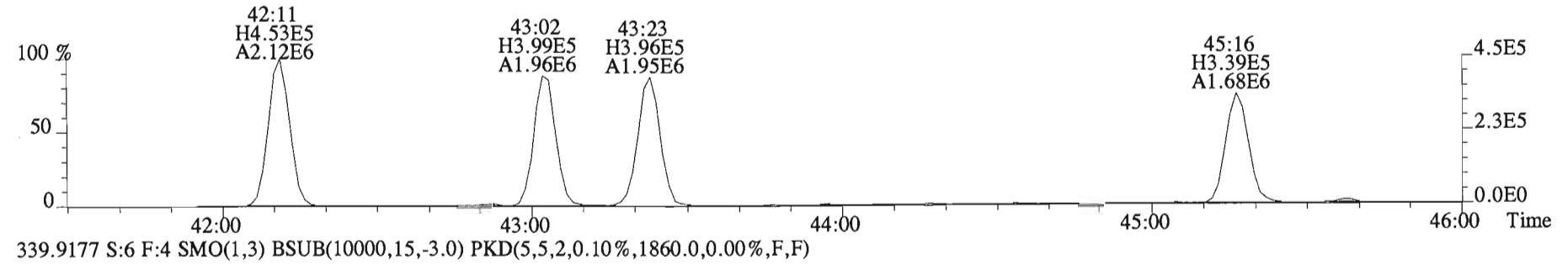
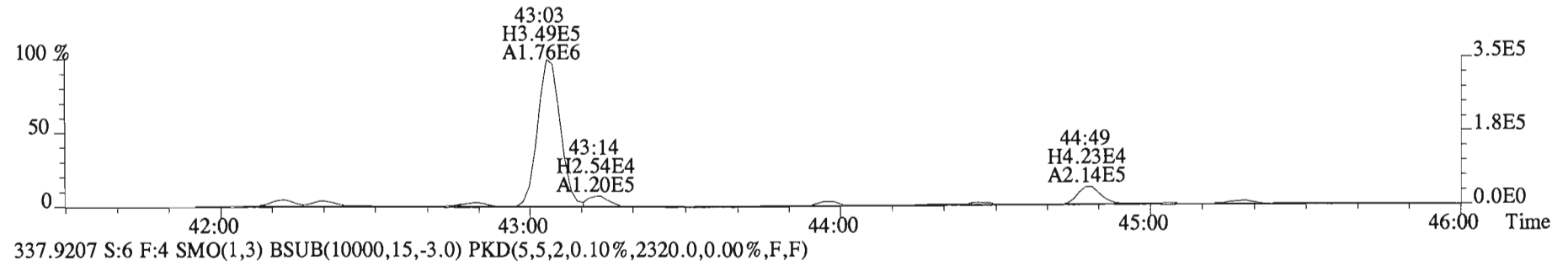
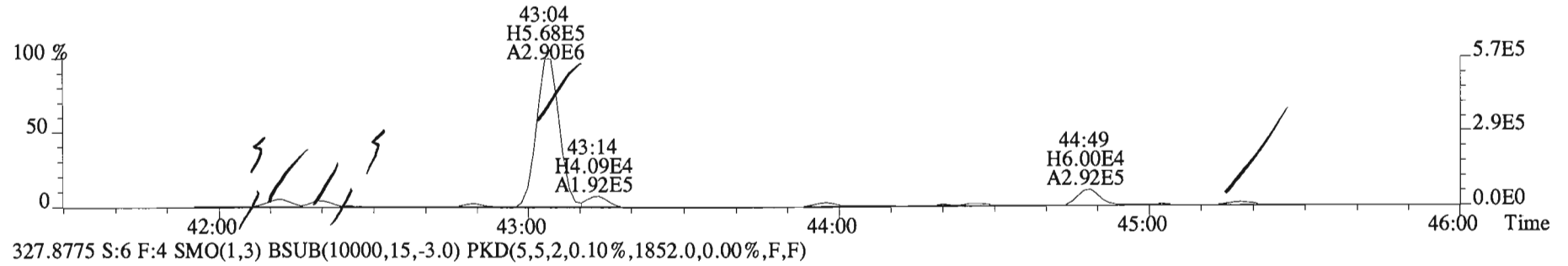
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1588.0,0.00%,F,F)



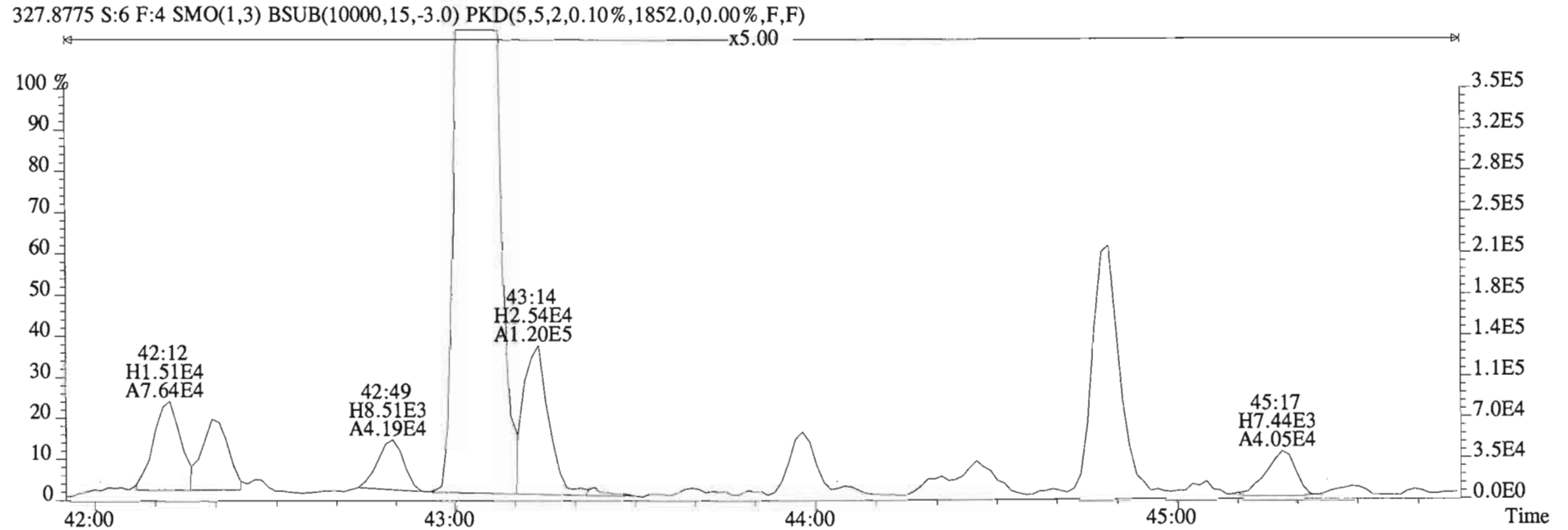
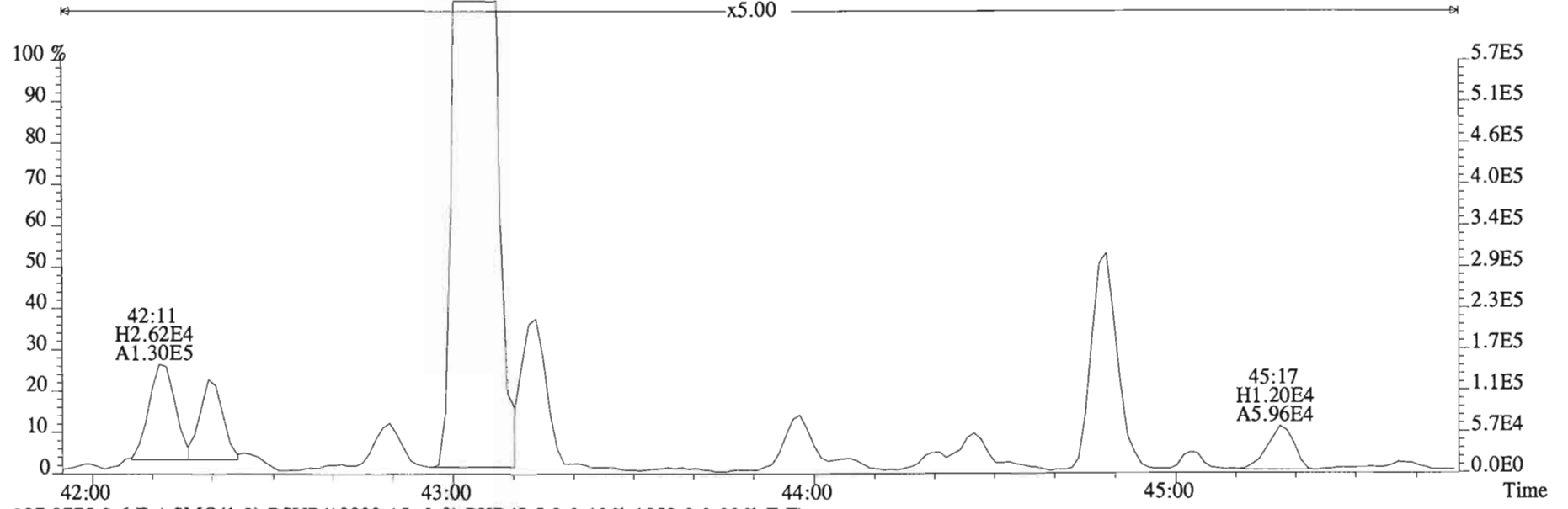
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2196.0,0.00%,F,F)



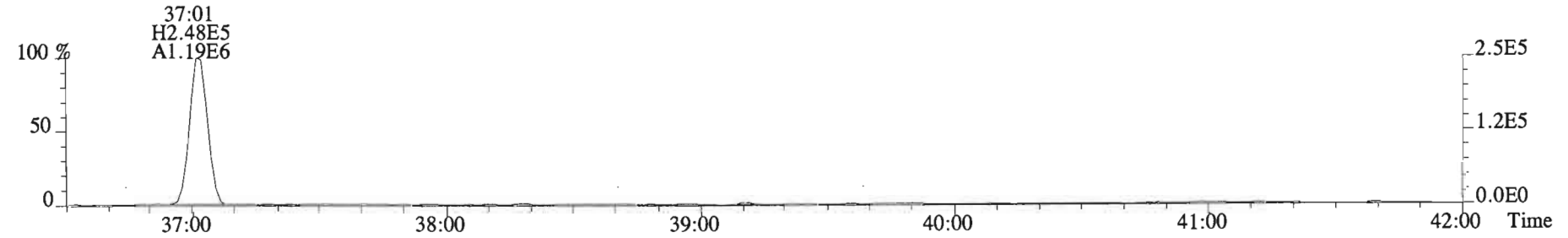
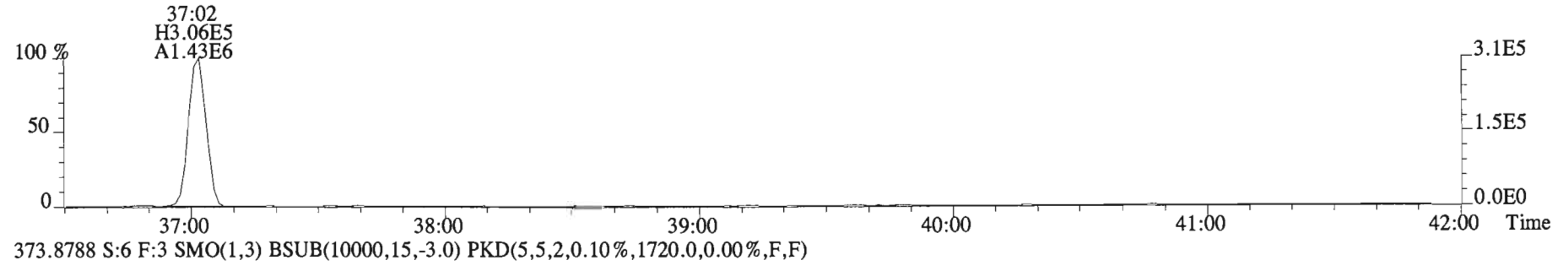
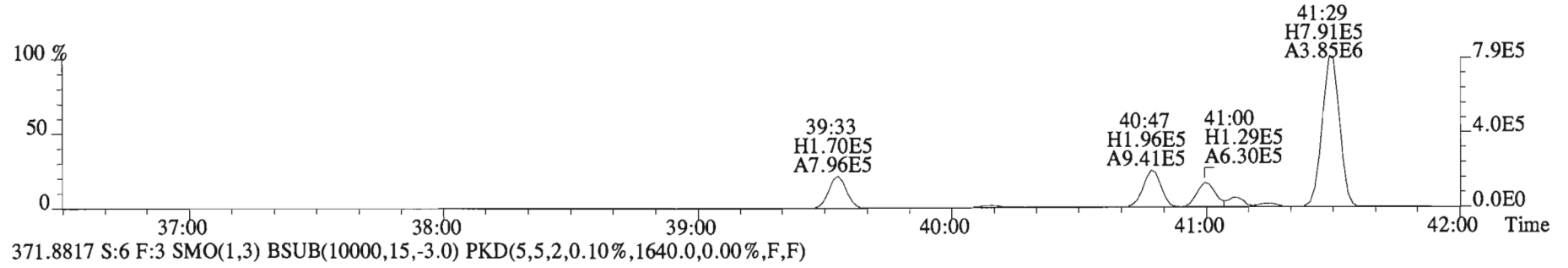
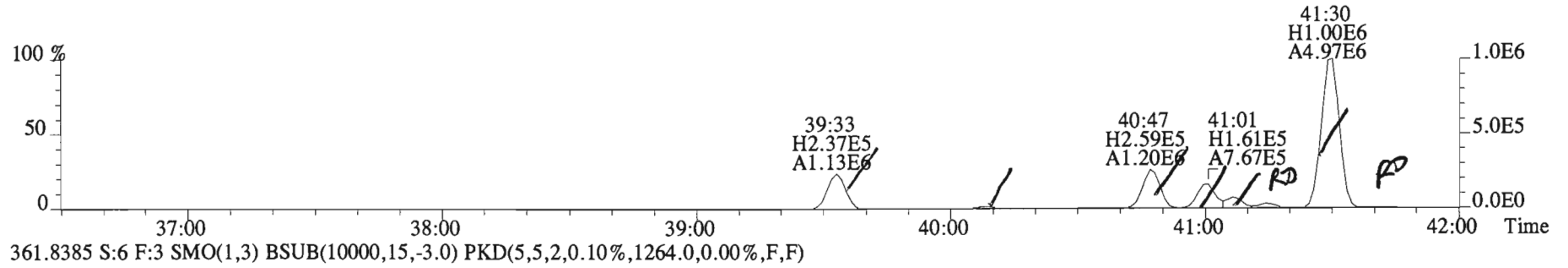
File:150226E1 #1-555 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
325.8804 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1772.0,0.00%,F,F)



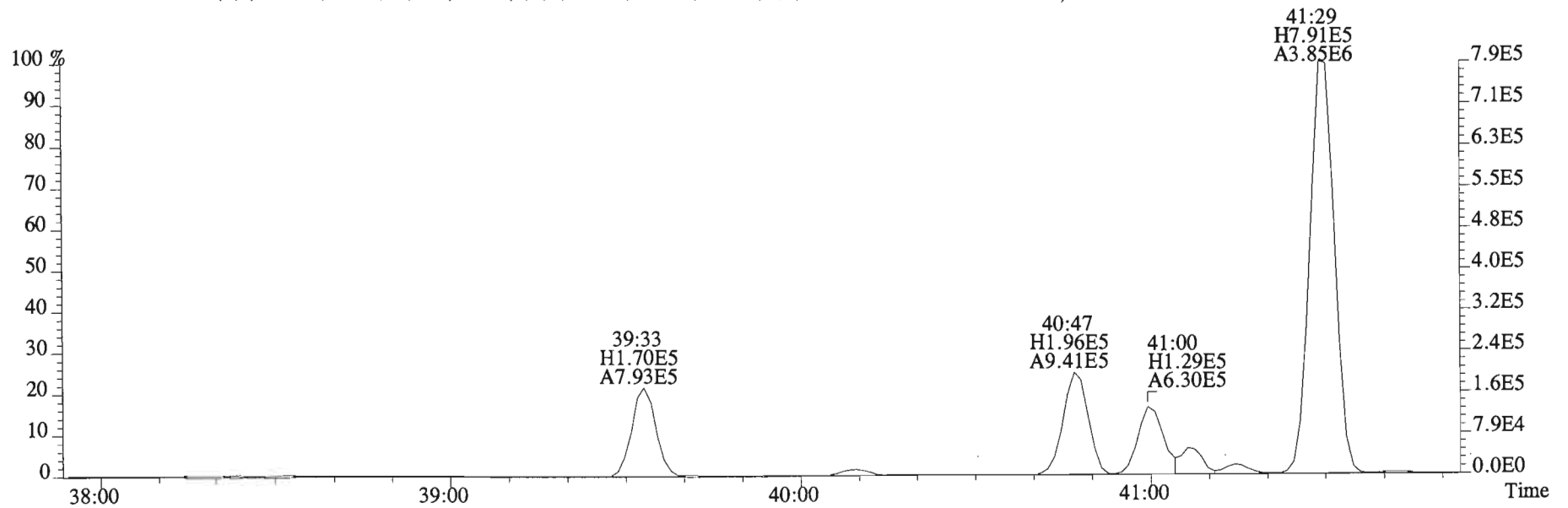
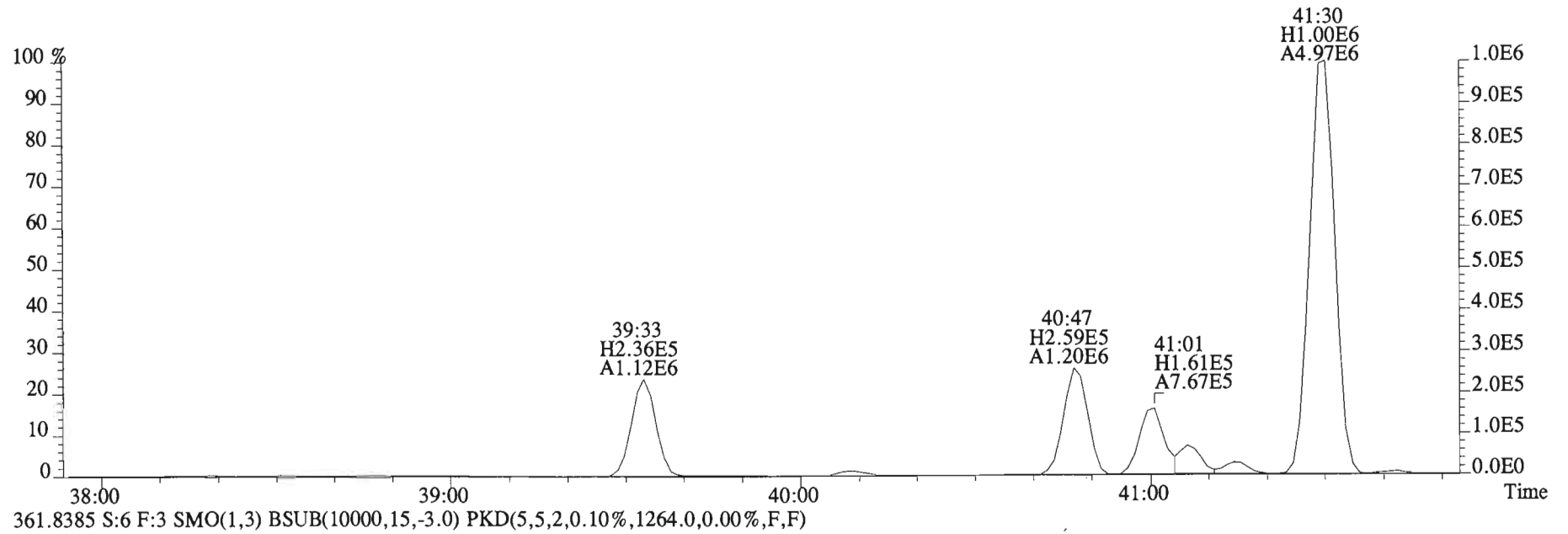
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Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
325.8804 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1772.0,0.00%,F,F)



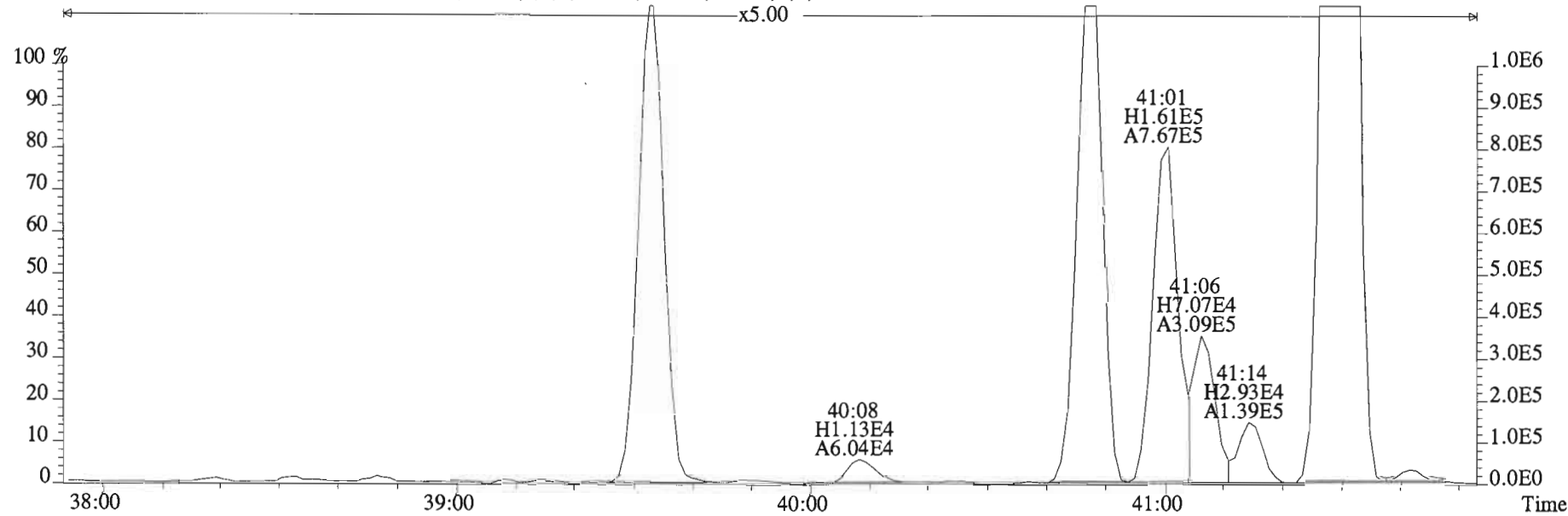
File:150226E1 #1-758 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1380.0,0.00%,F,F)



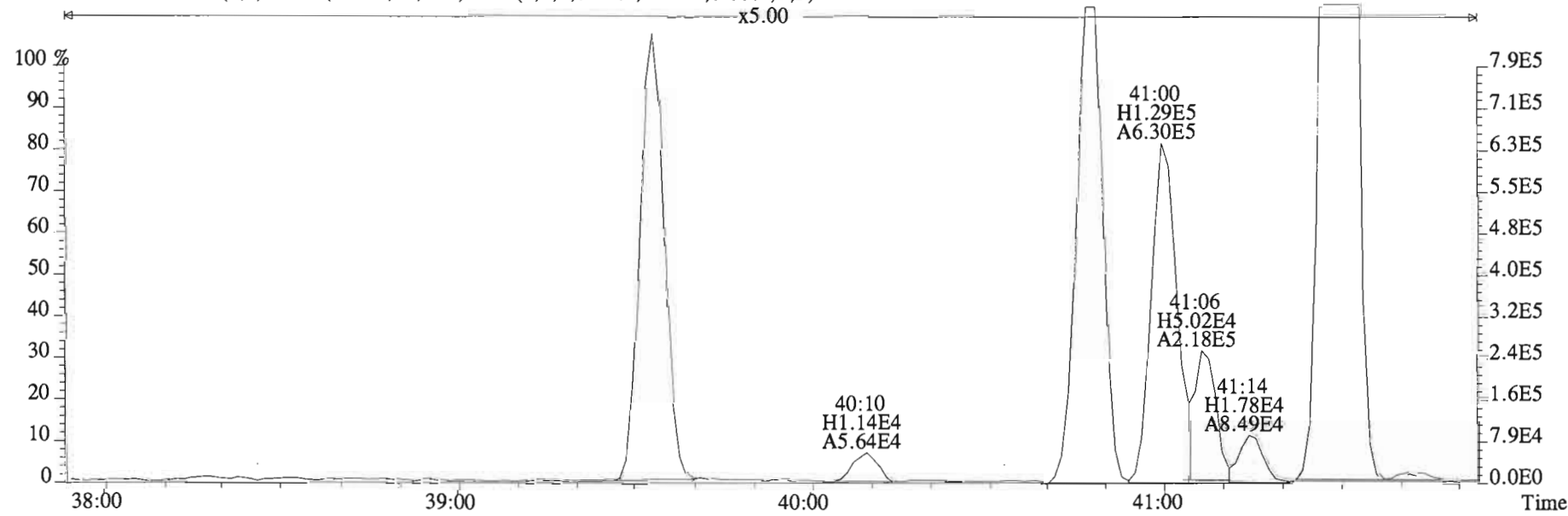
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Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1380.0,0.00%,F,F)



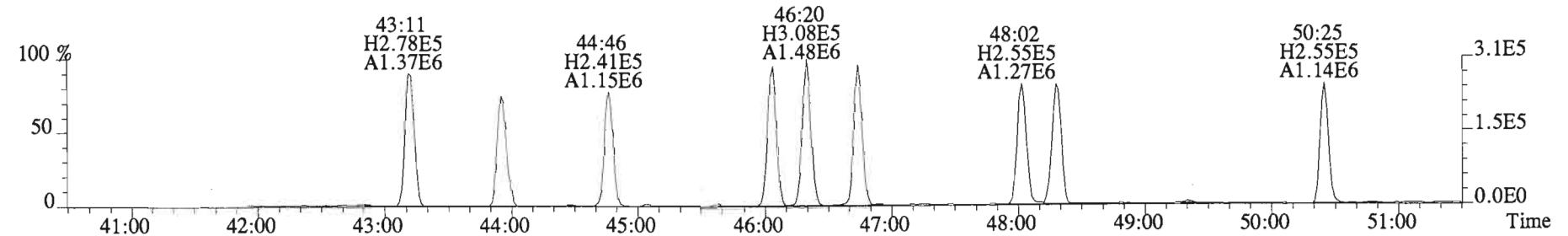
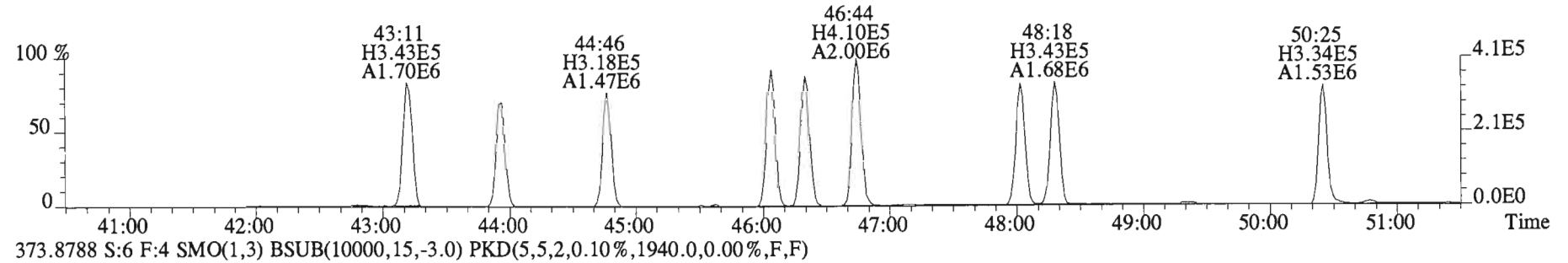
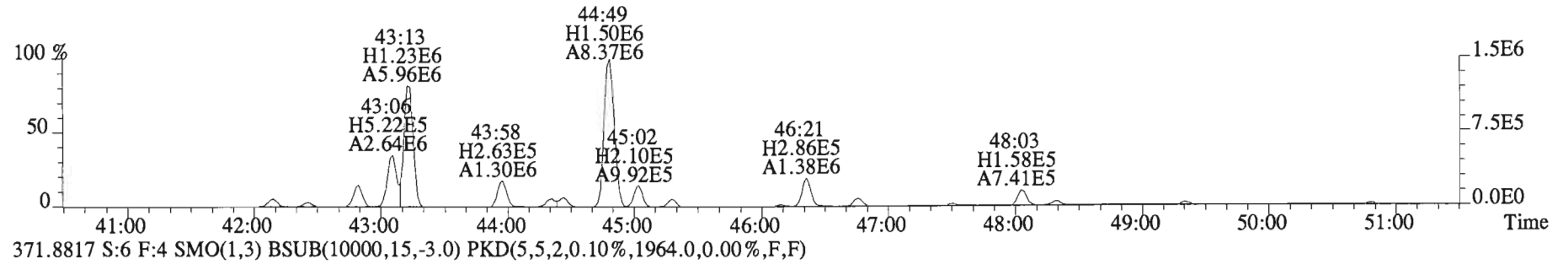
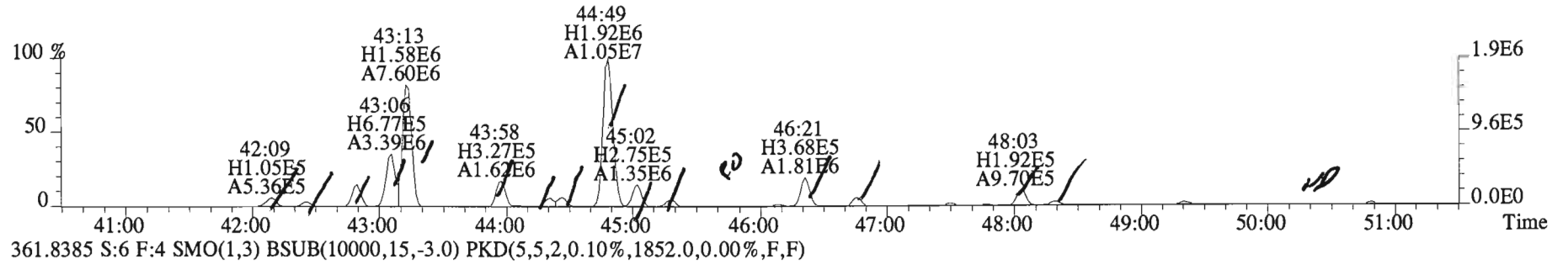
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 359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1380.0,0.00%,F,F)



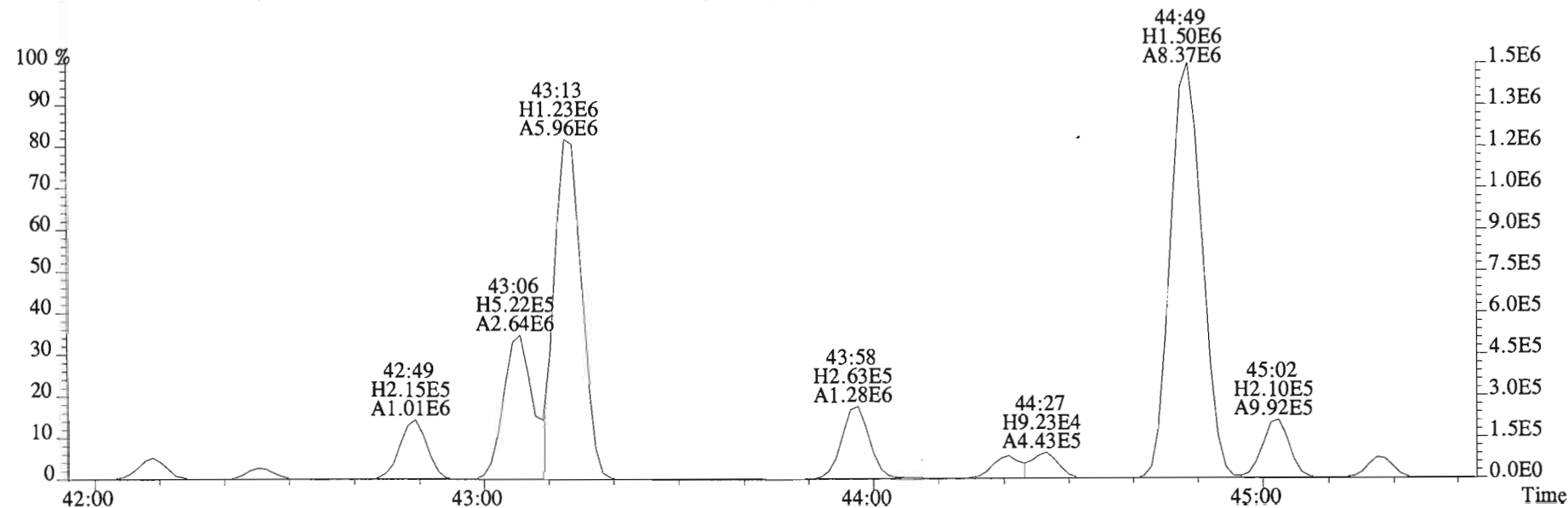
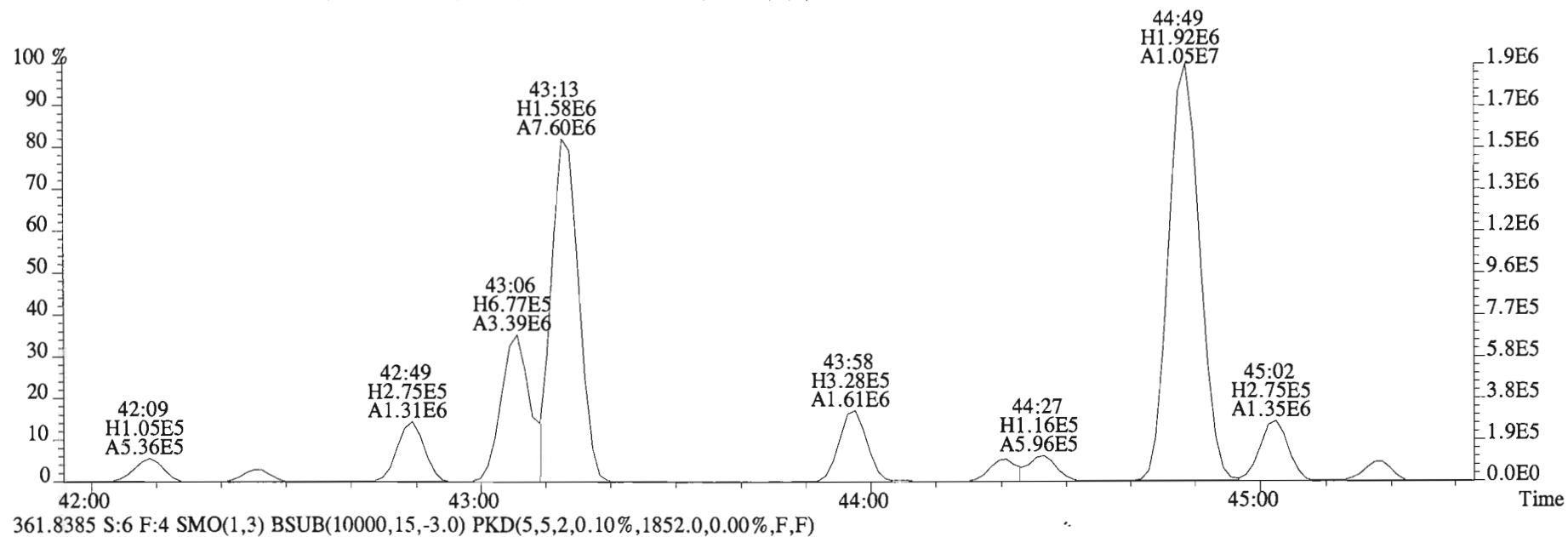
361.8385 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1264.0,0.00%,F,F)



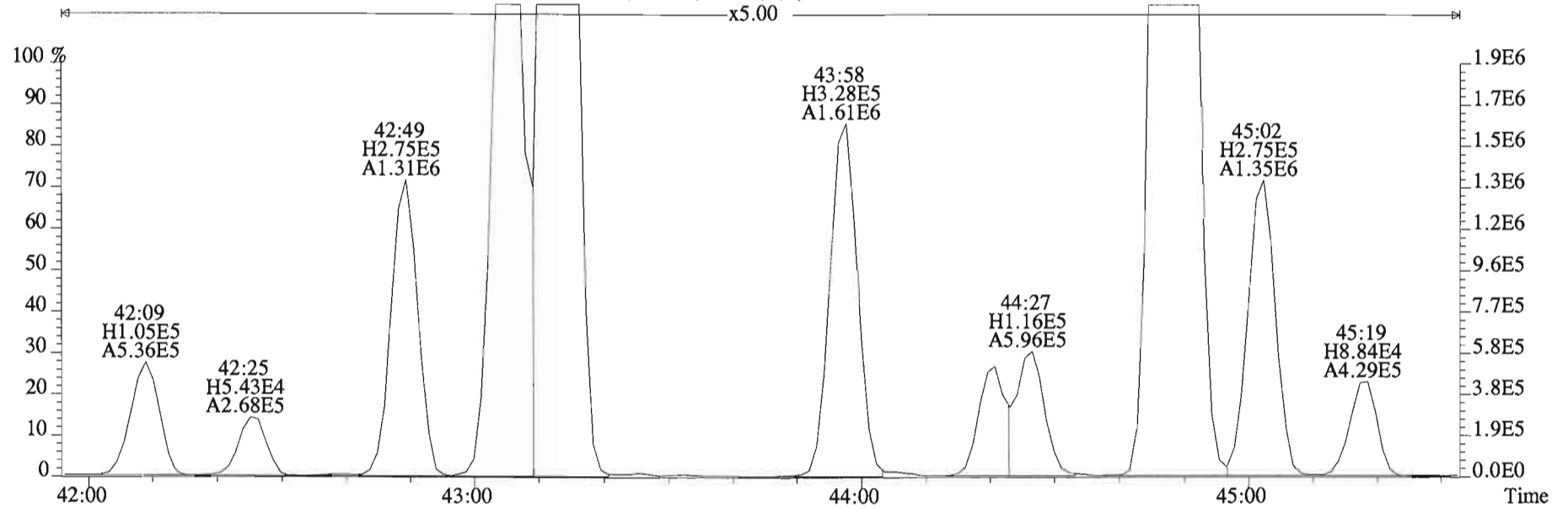
File:150226E1 #1-555 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2056.0,0.00%,F,F)



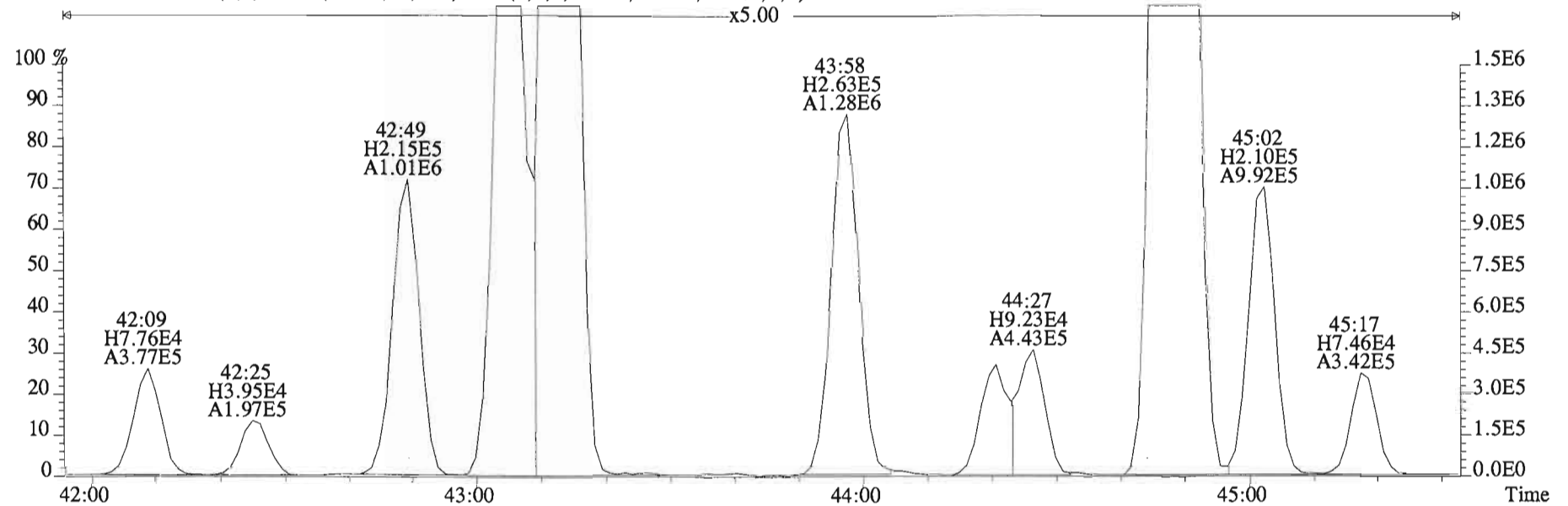
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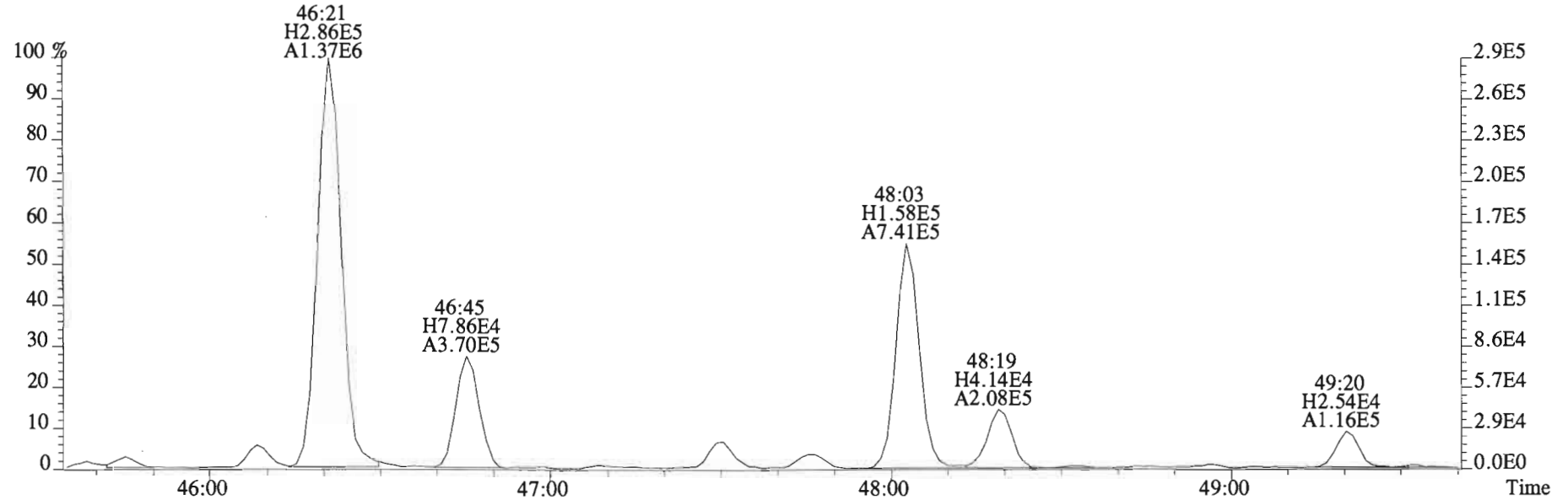
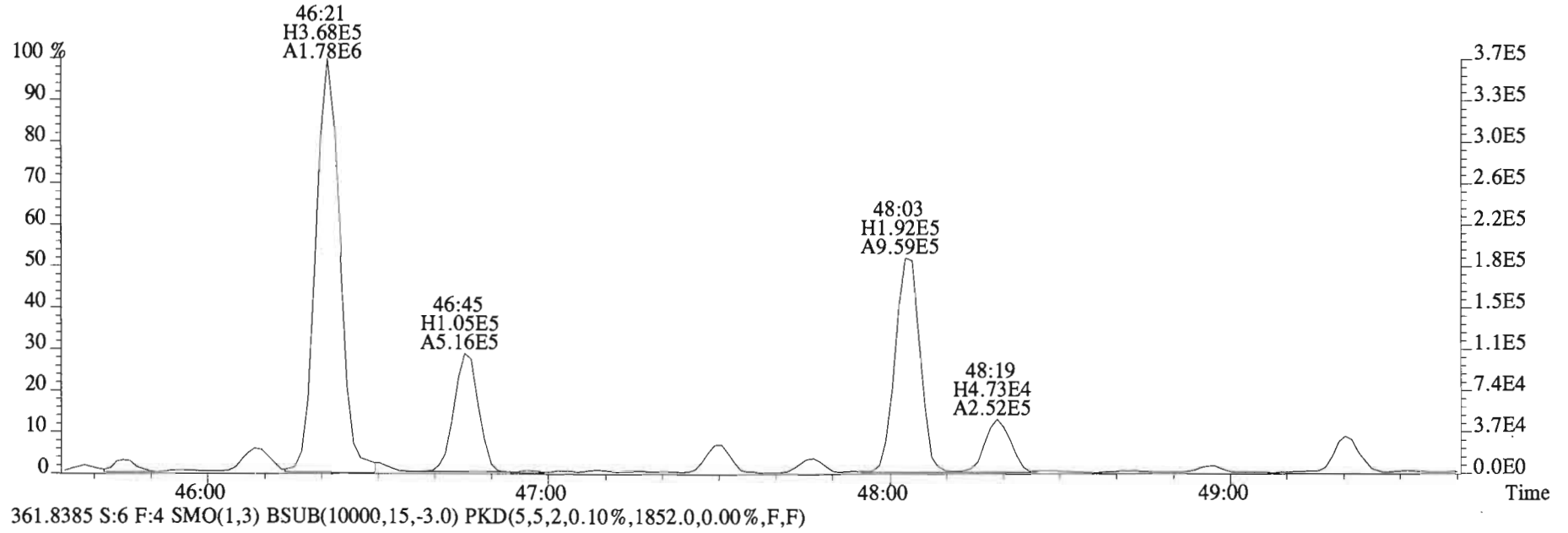
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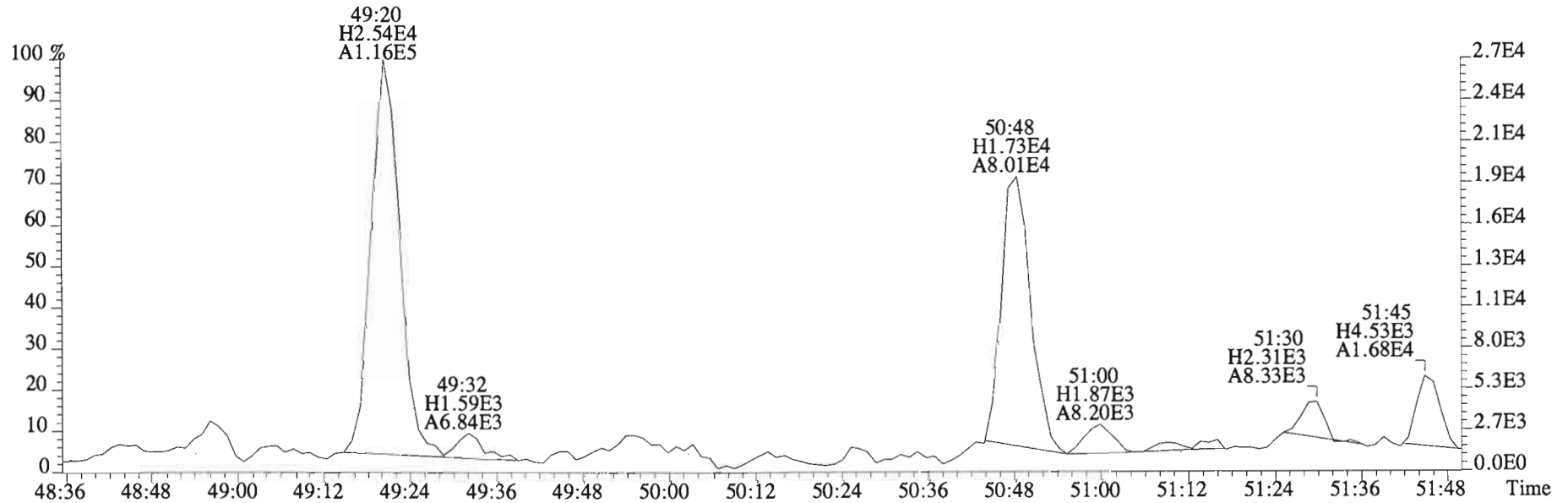
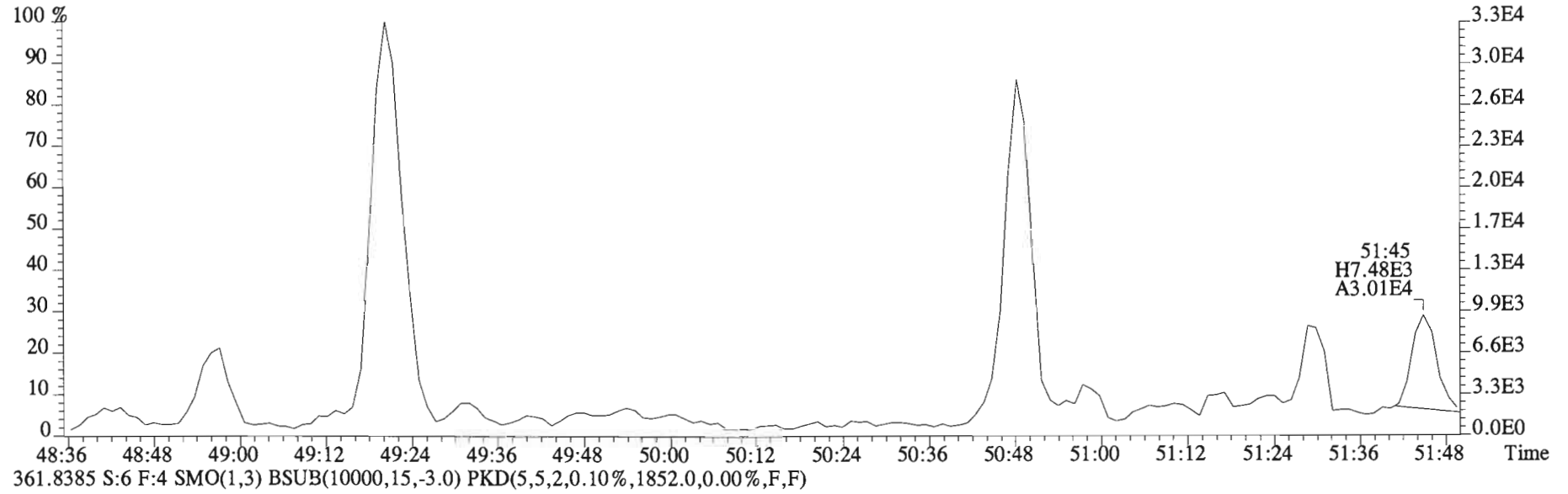
361.8385 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1852.0,0.00%,F,F)



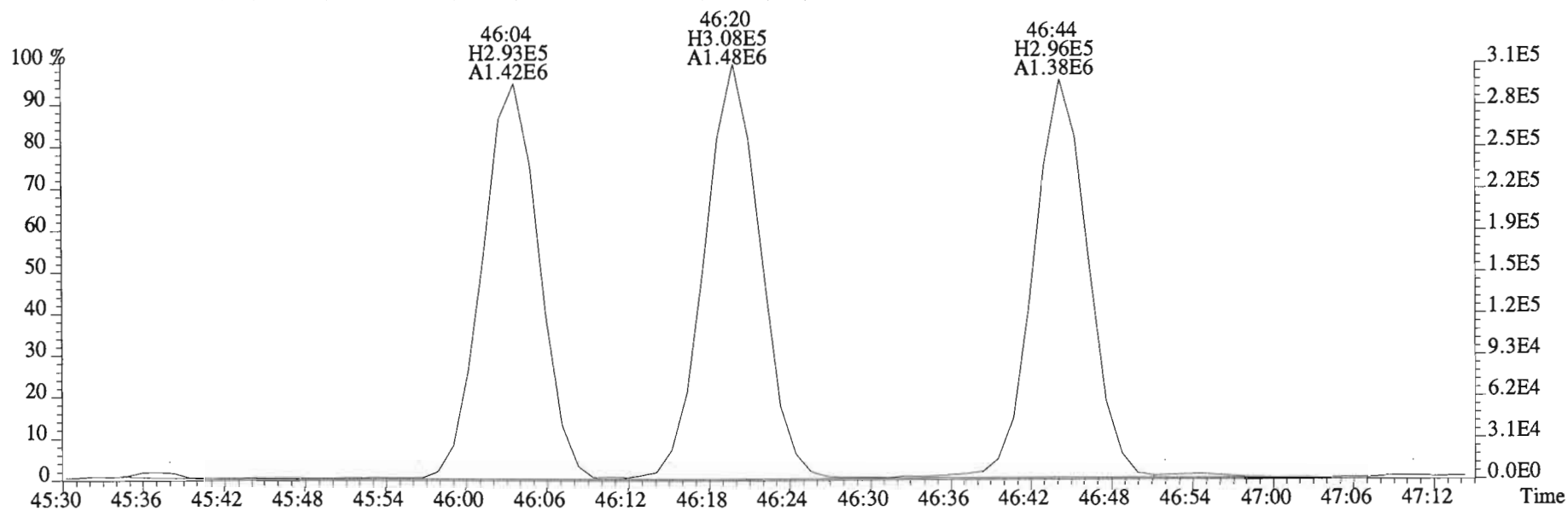
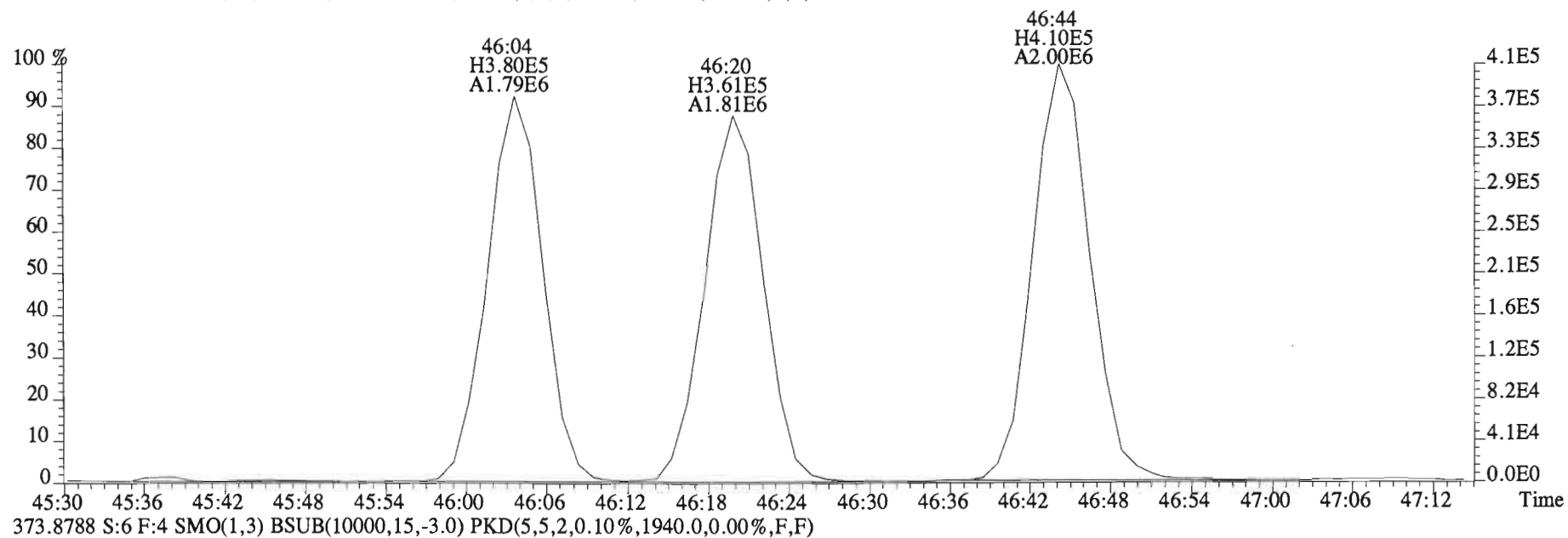
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2056.0,0.00%,F,F)



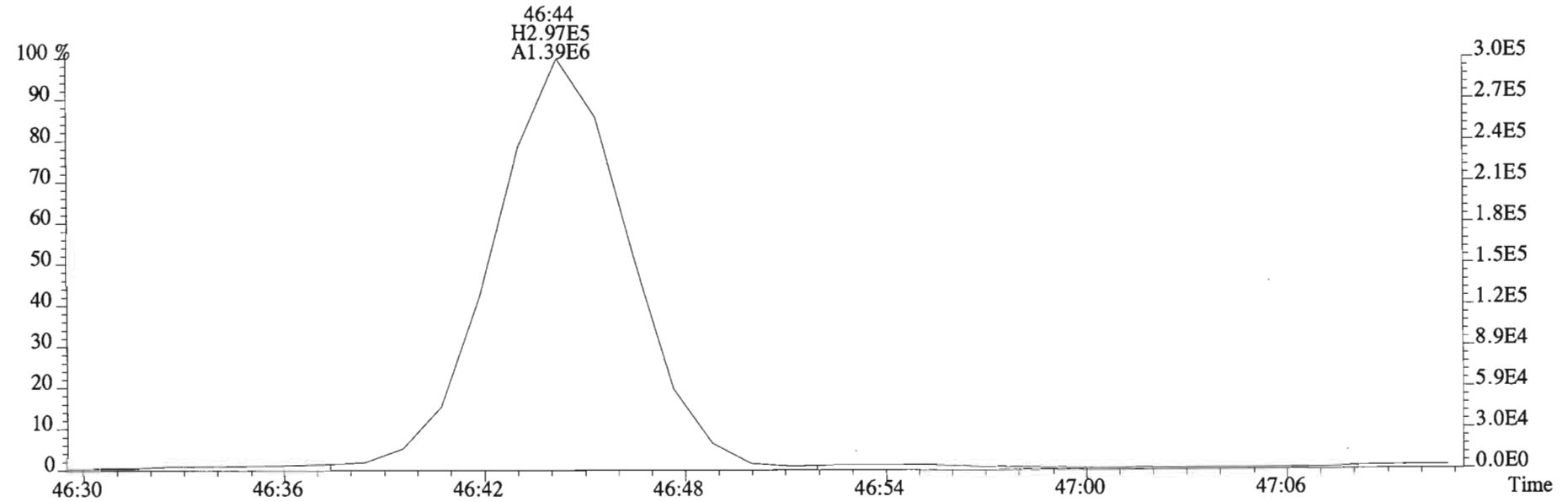
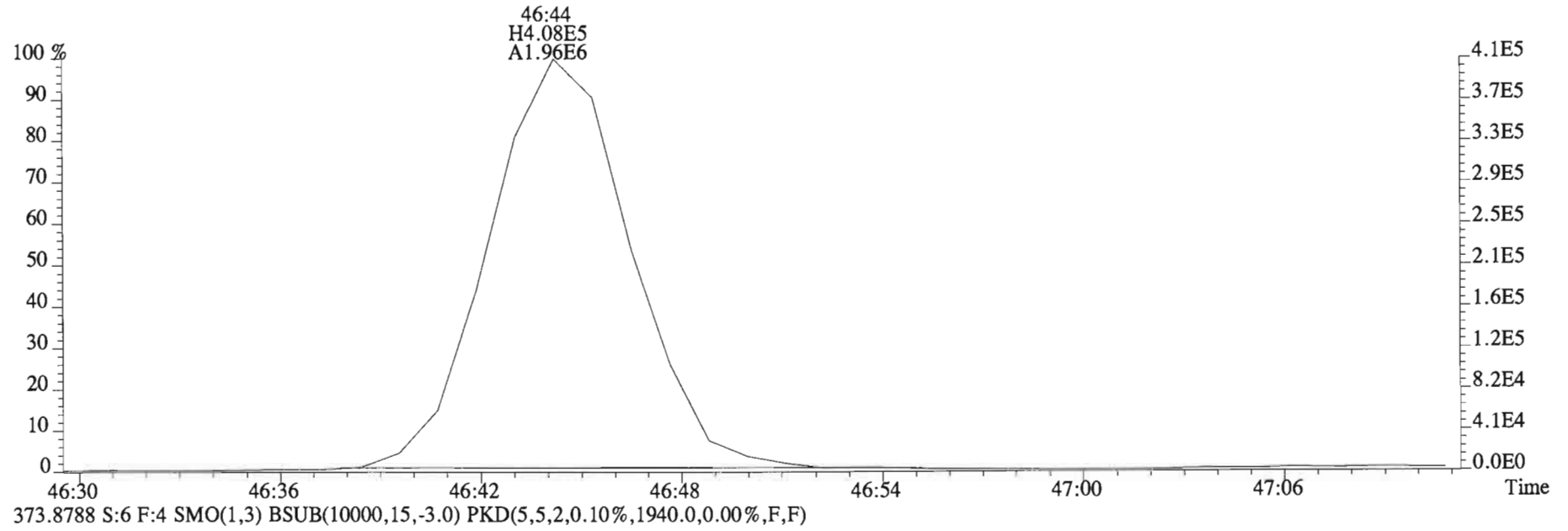
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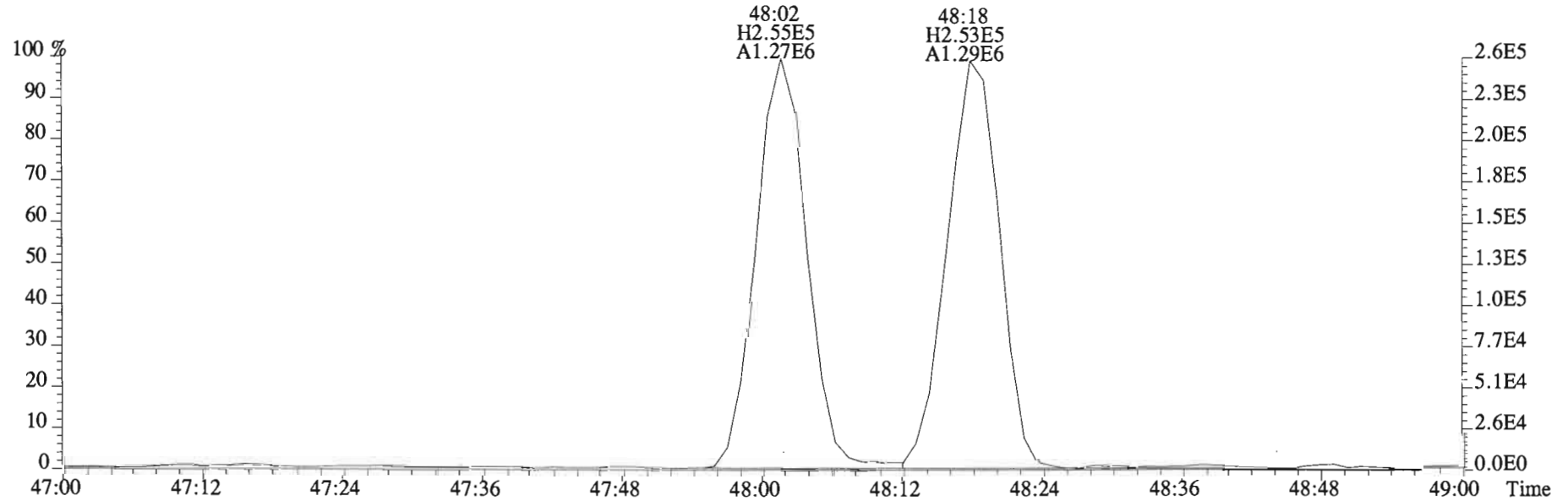
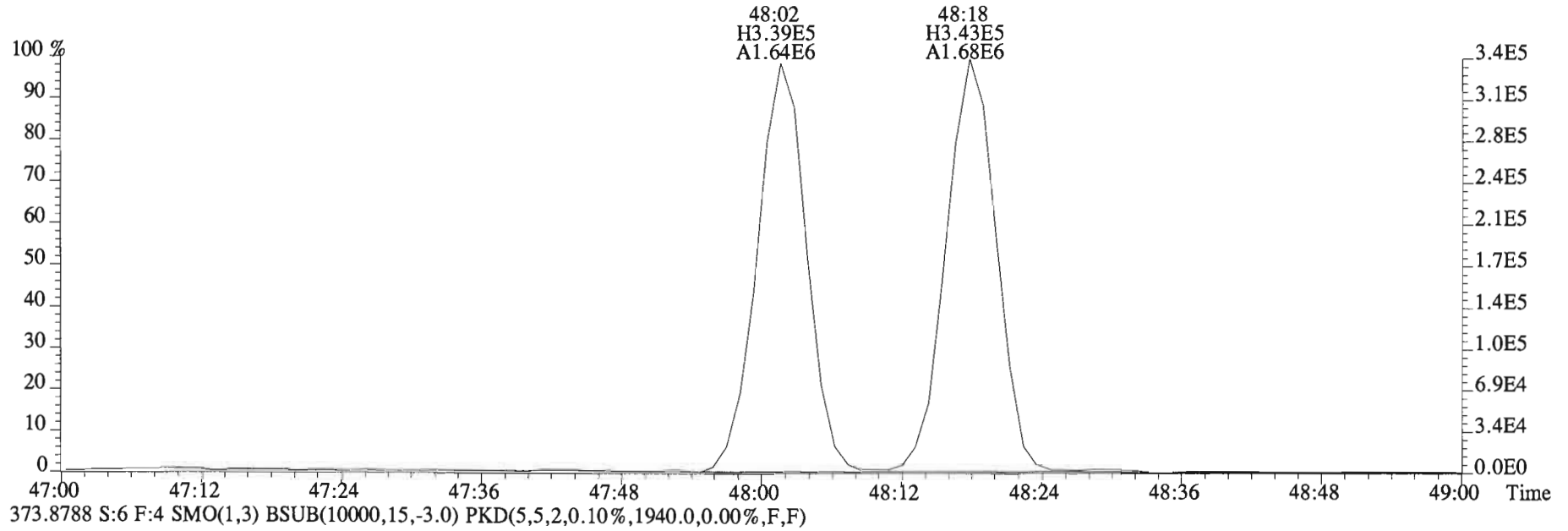
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1964.0,0.00%,F,F)



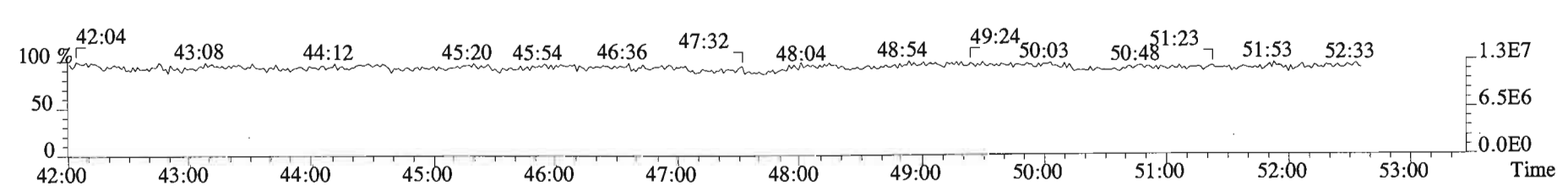
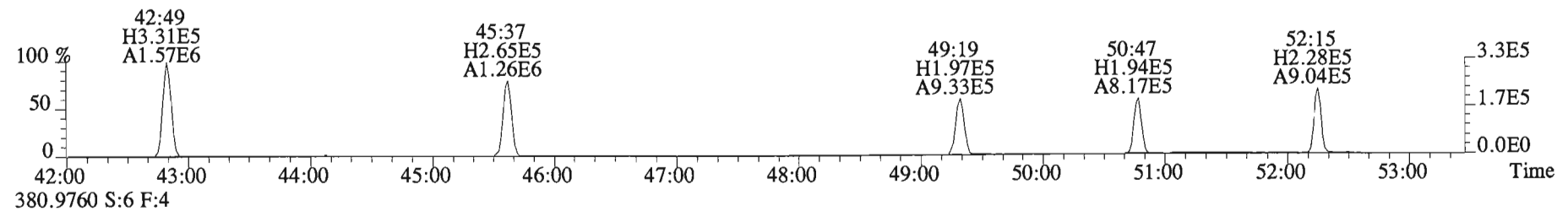
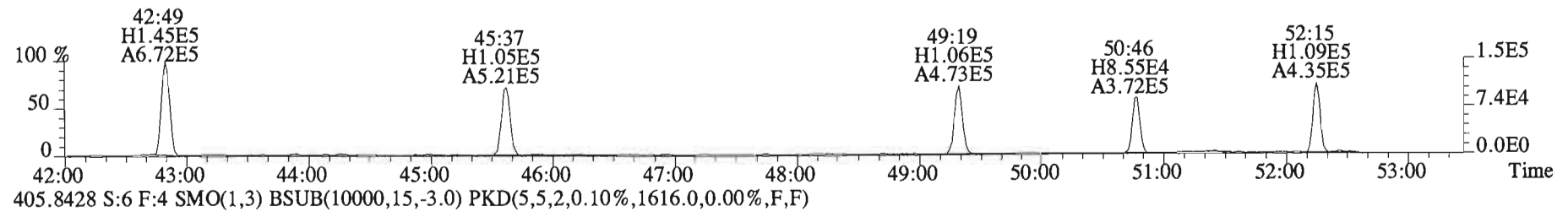
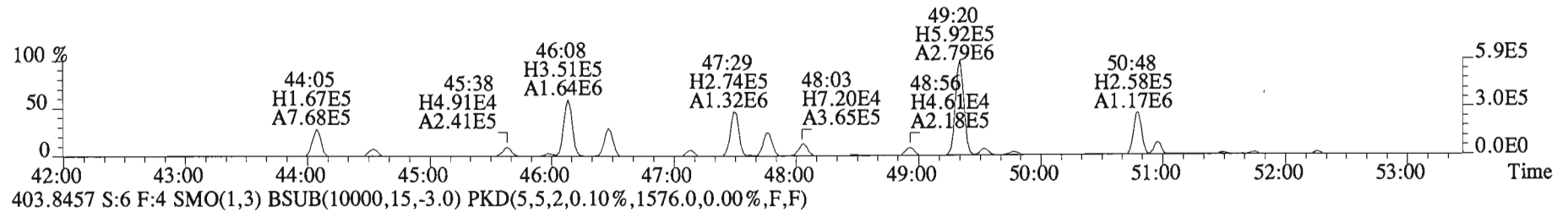
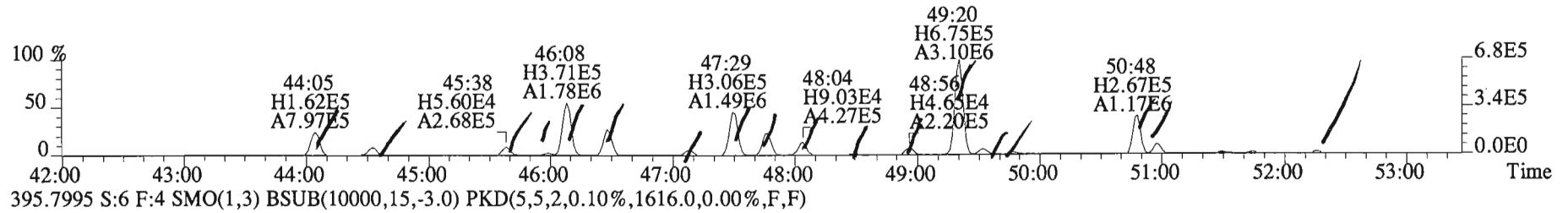
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1964.0,0.00%,F,F)



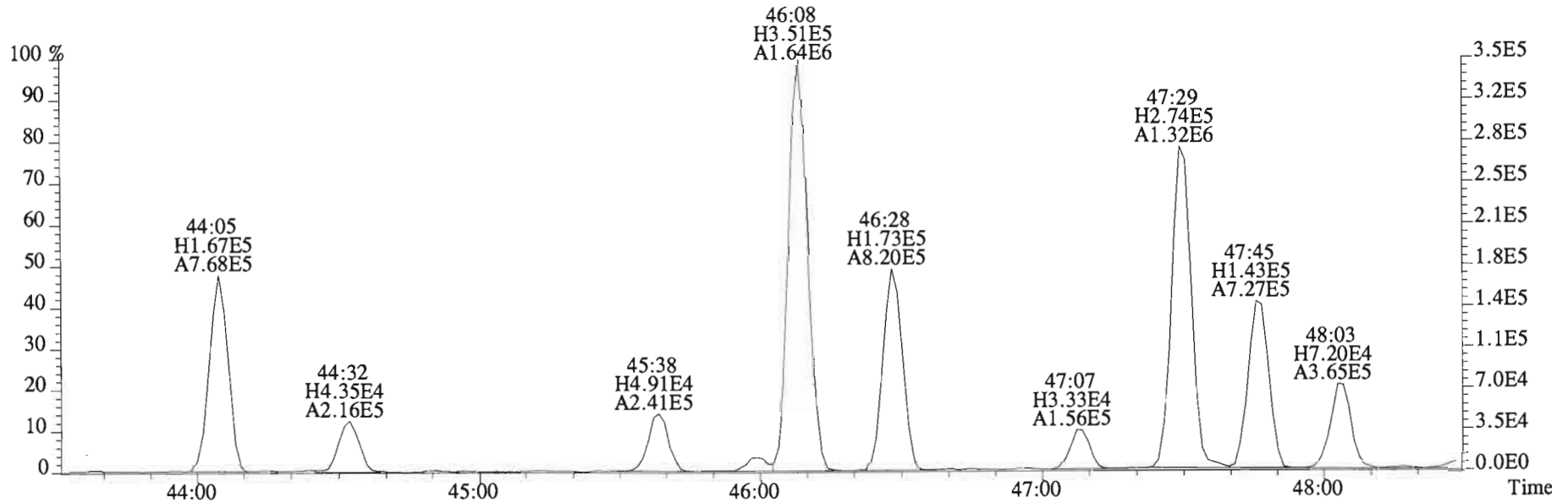
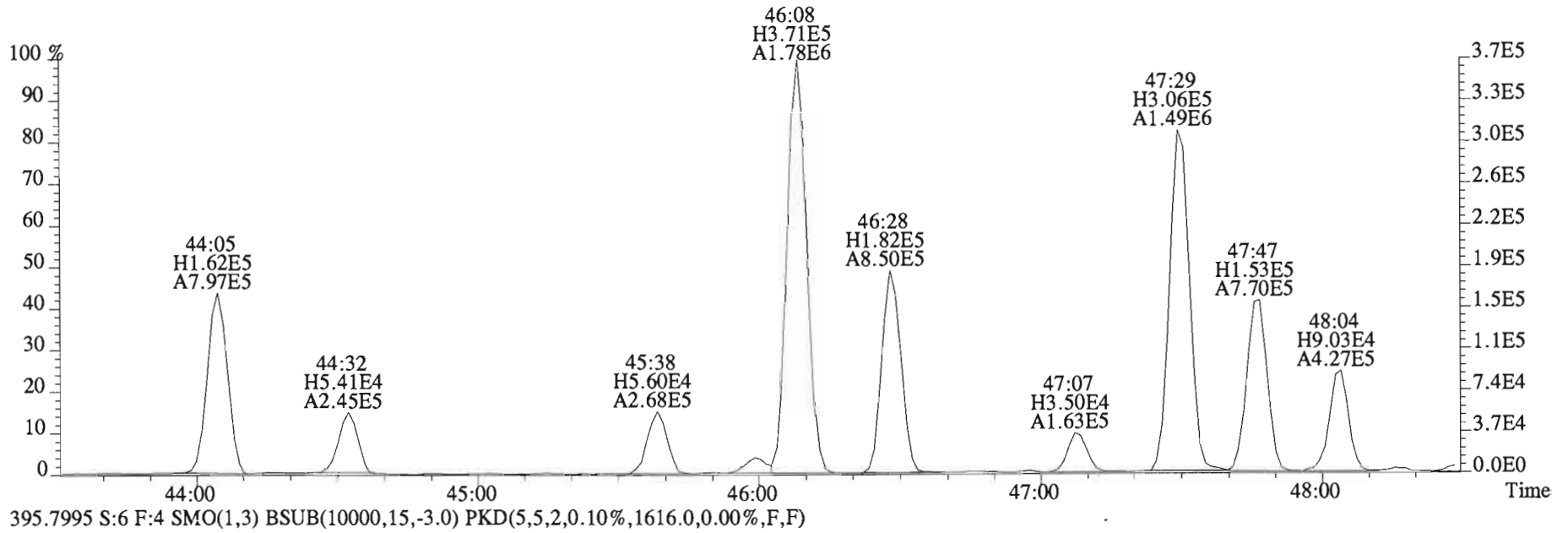
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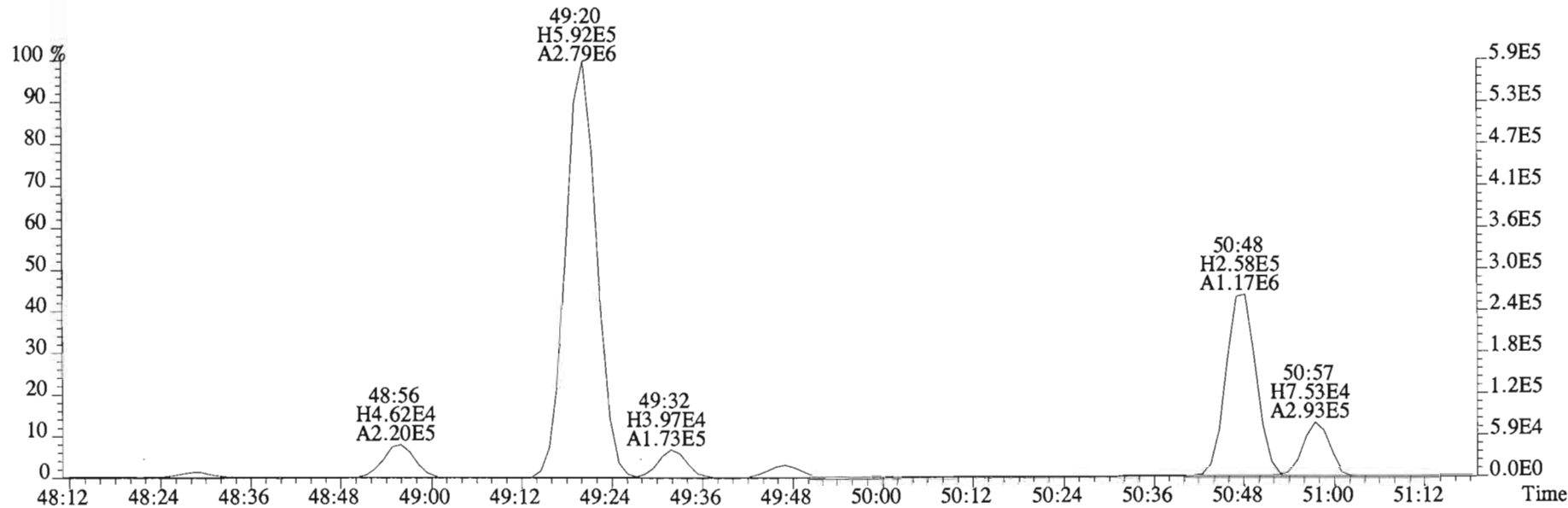
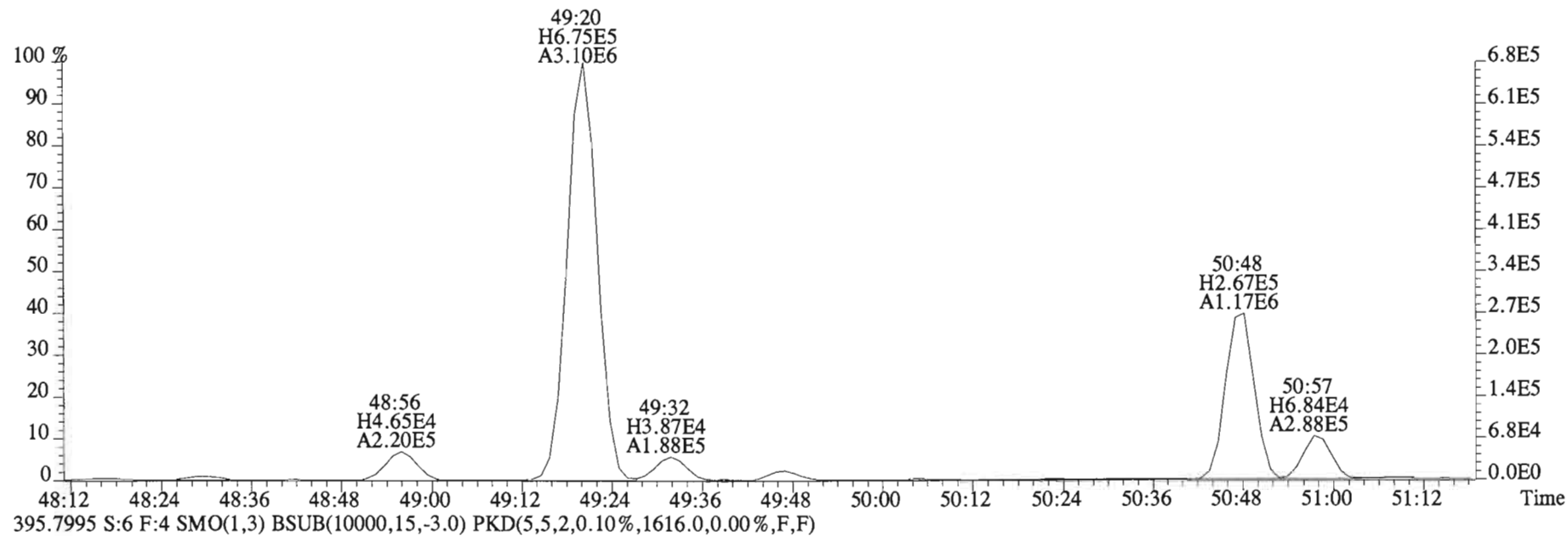
File:150226E1 #1-555 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1684.0,0.00%,F,F)



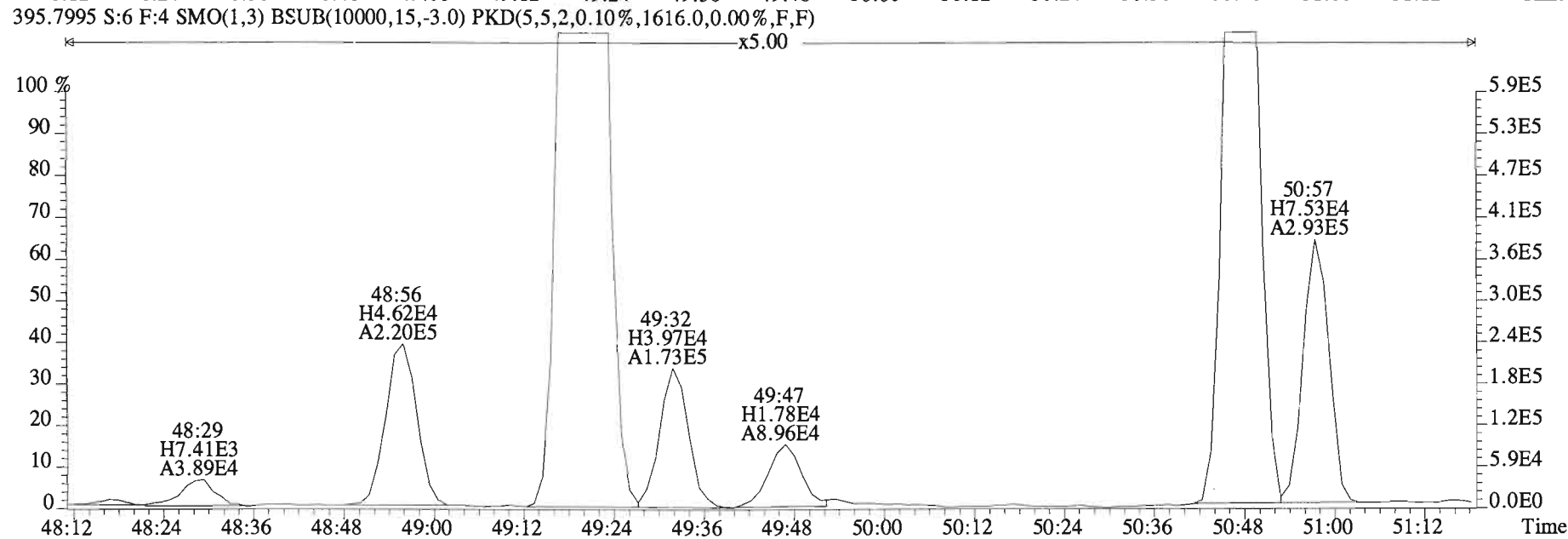
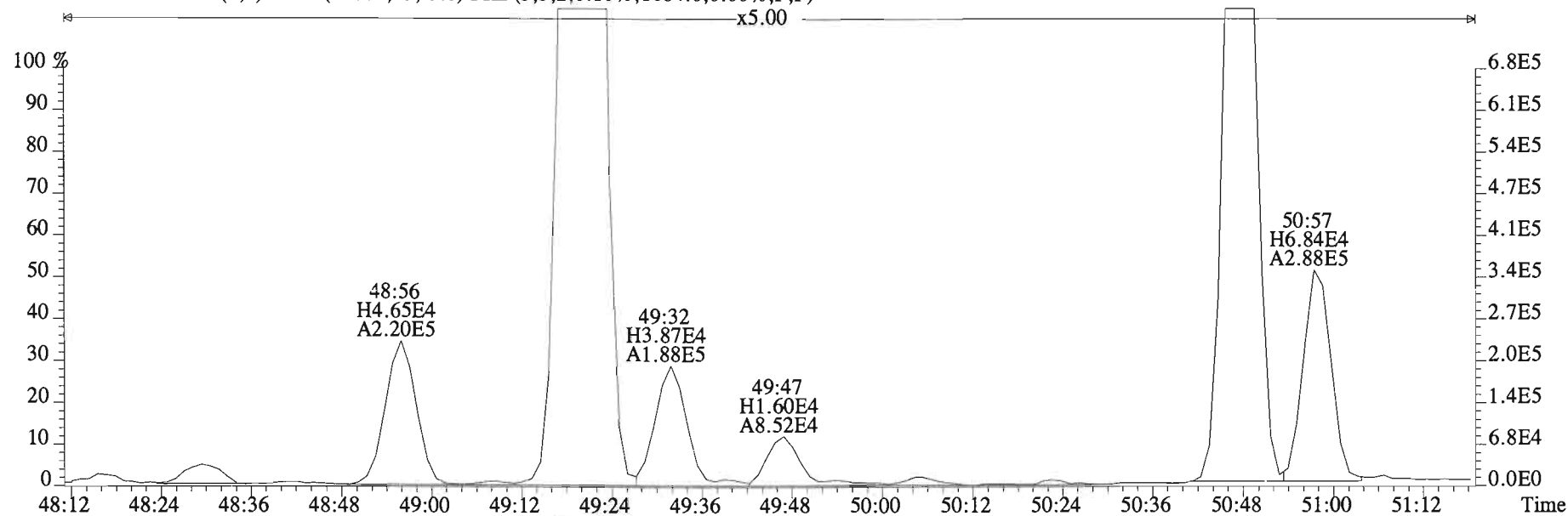
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 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
 393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1684.0,0.00%,F,F)



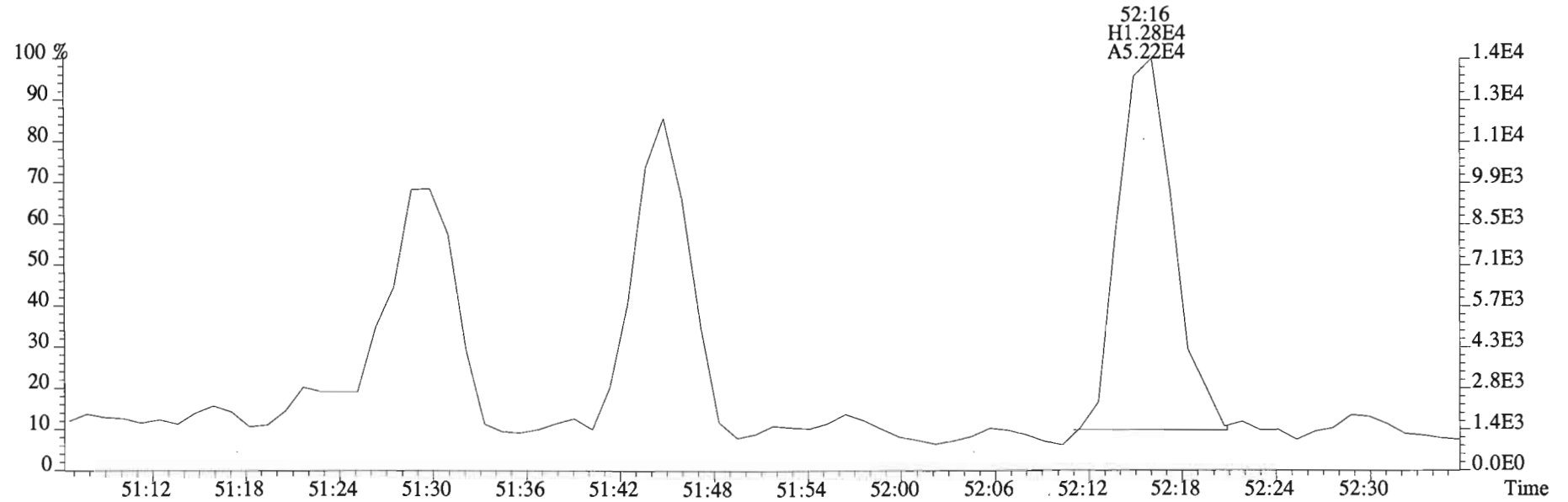
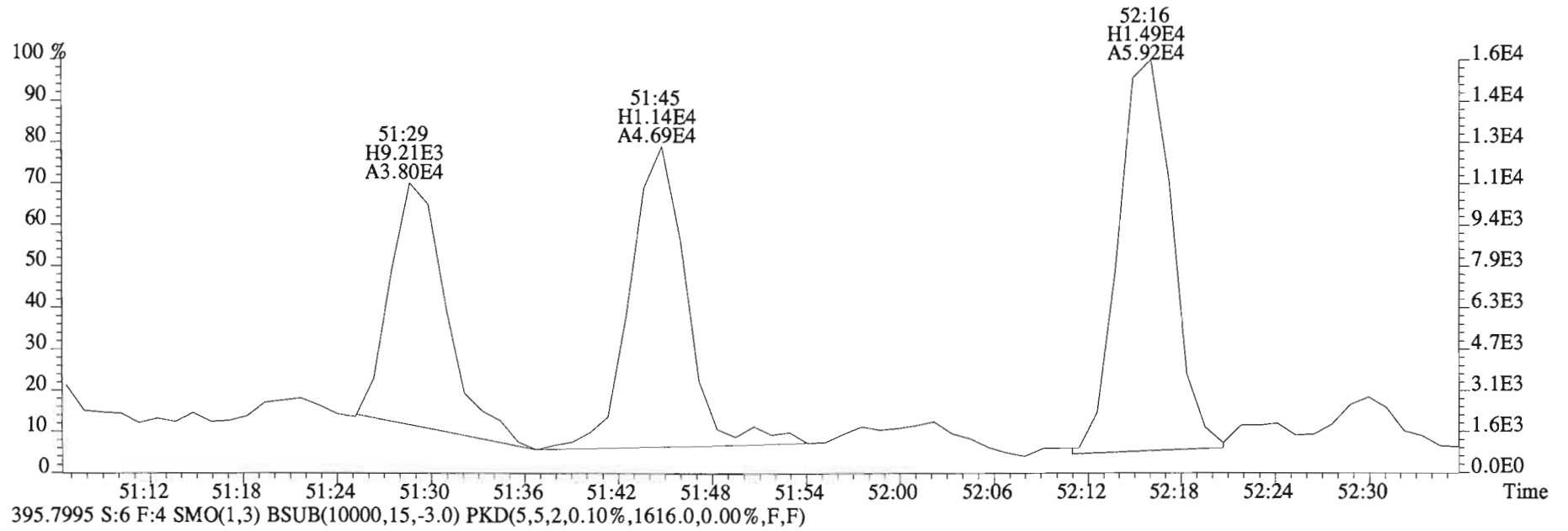
File:150226E1 #1-555 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1684.0,0.00%,F,F)



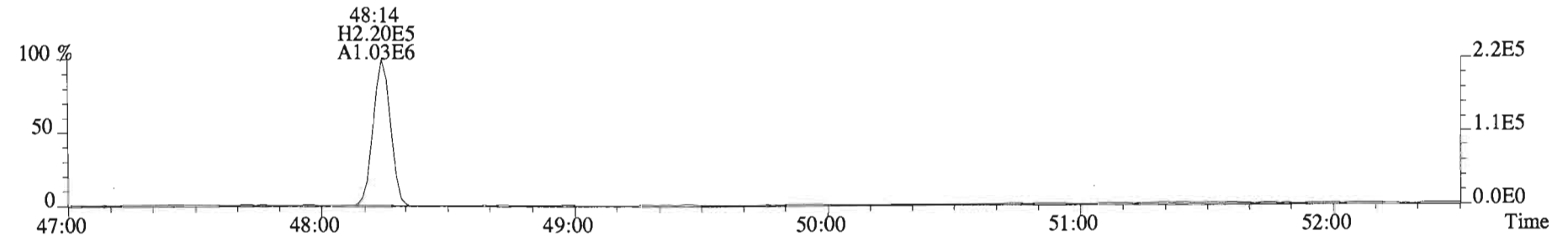
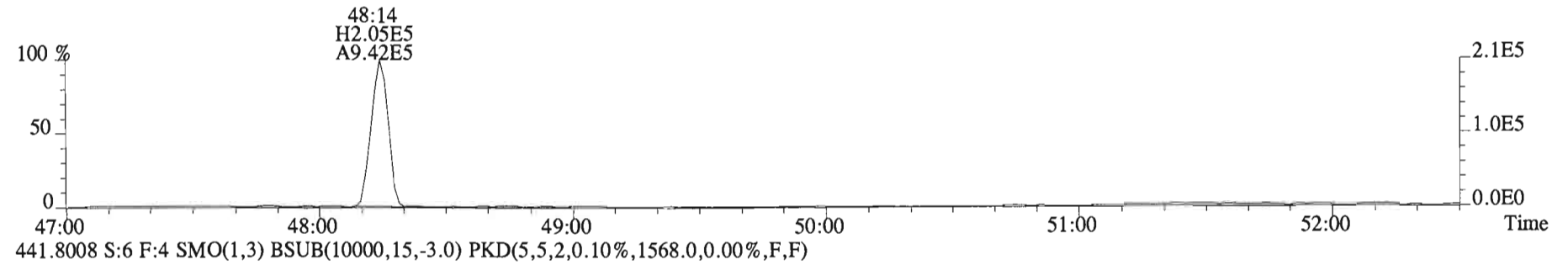
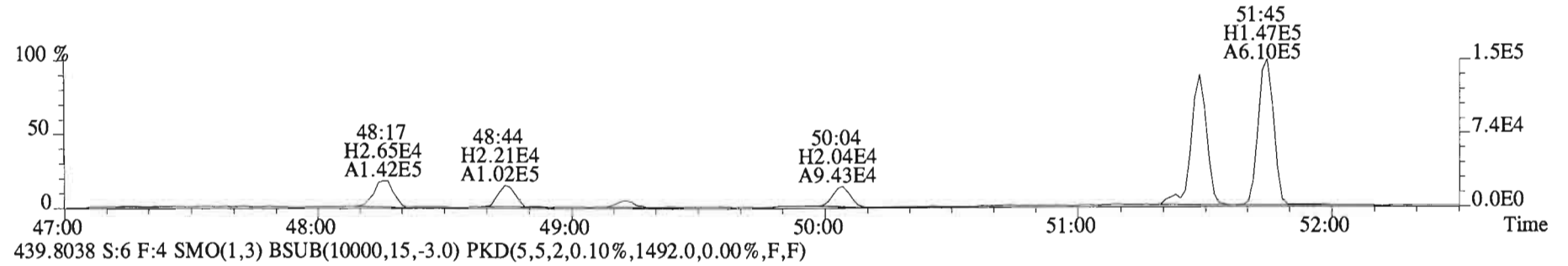
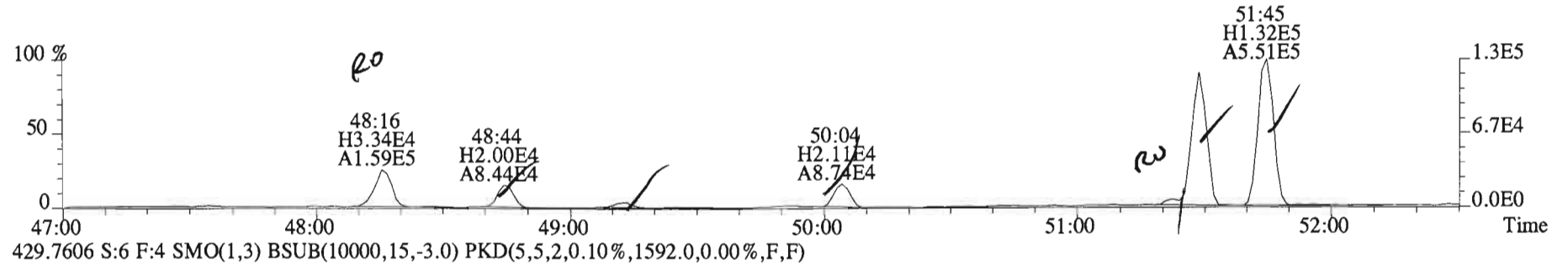
File:150226E1 #1-555 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1684.0,0.00%,F,F)



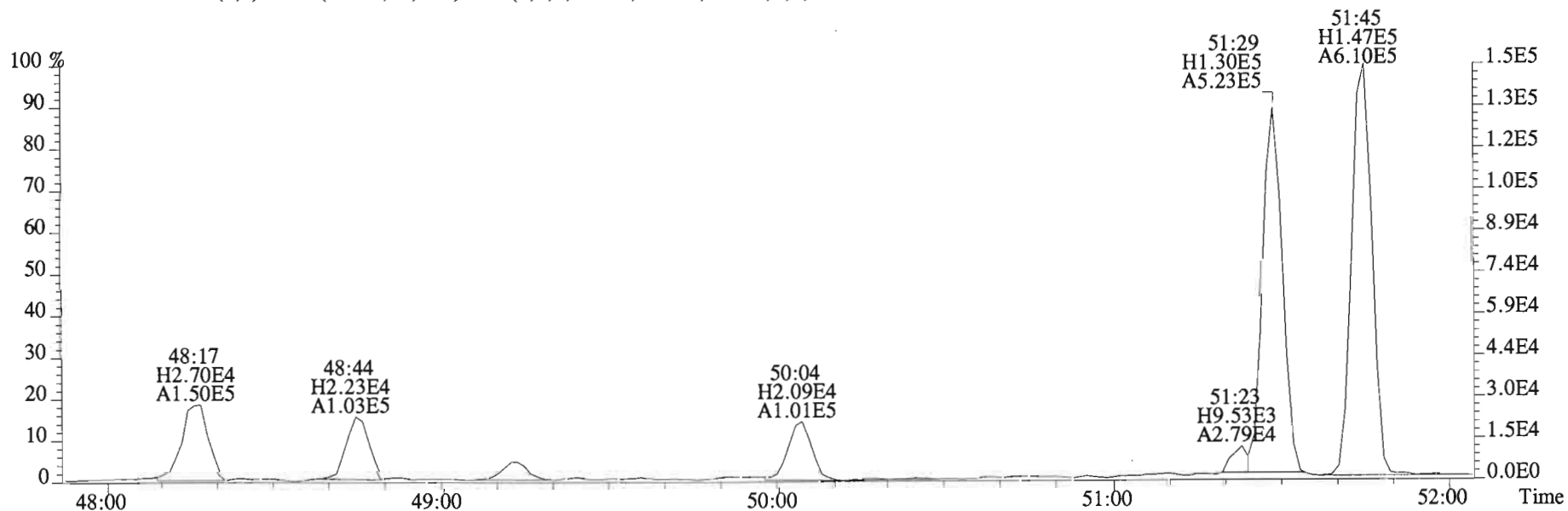
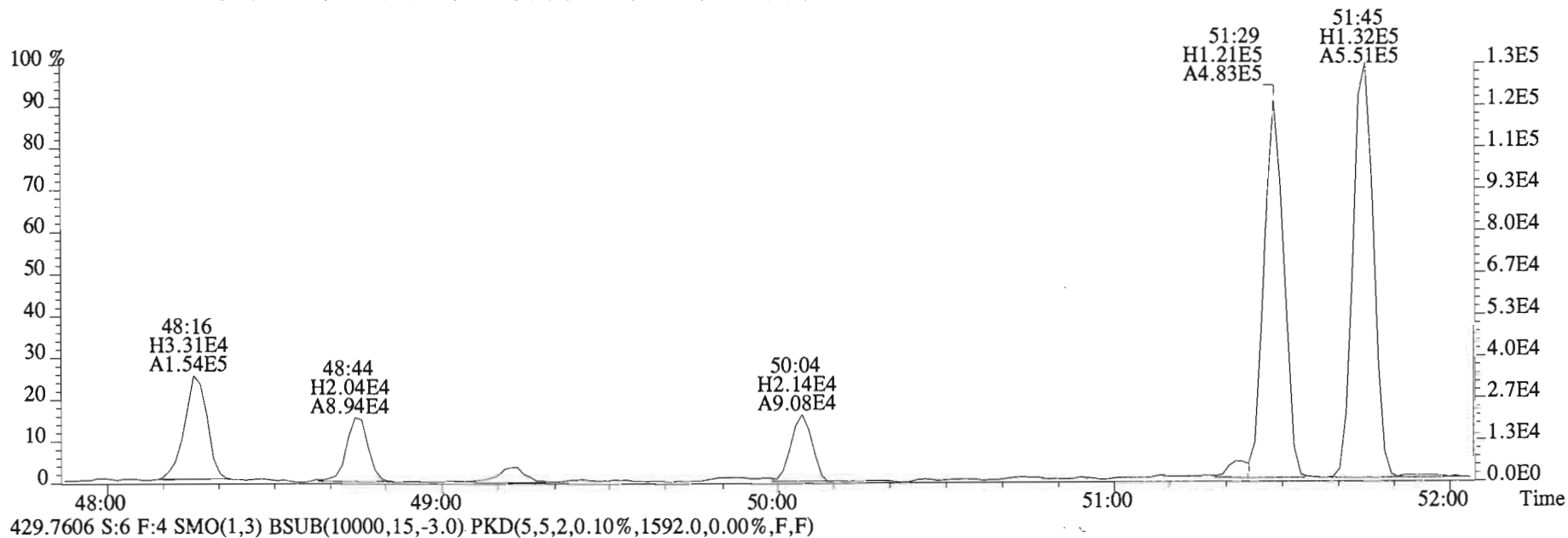
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1684.0,0.00%,F,F)



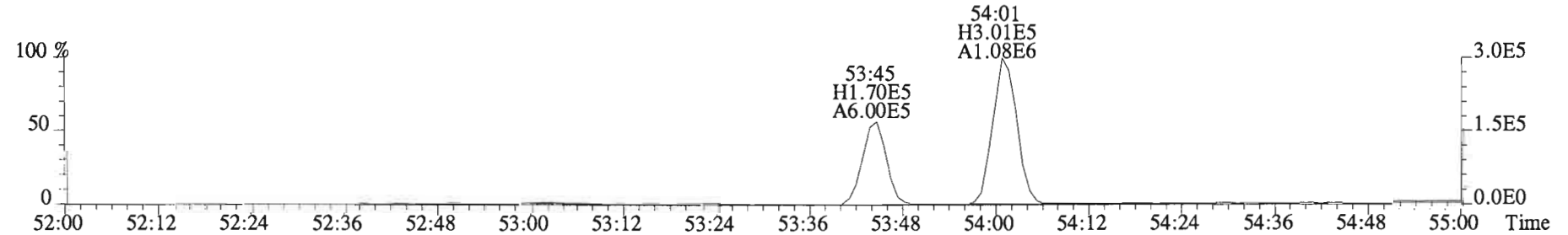
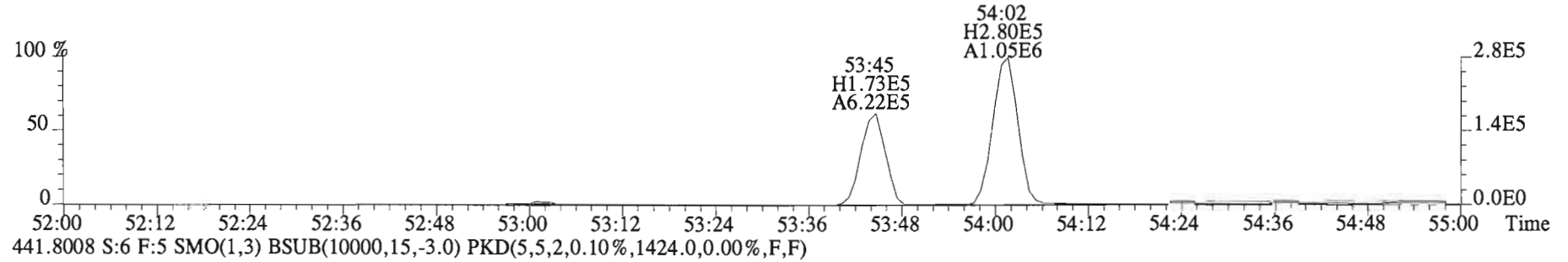
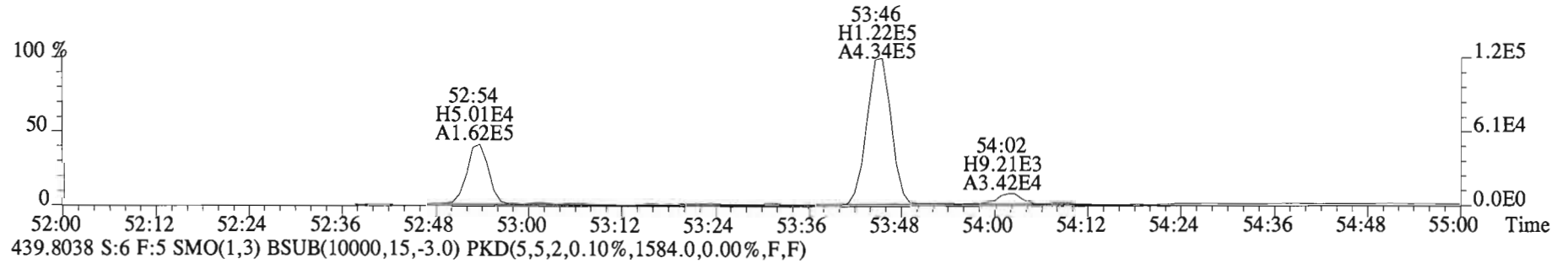
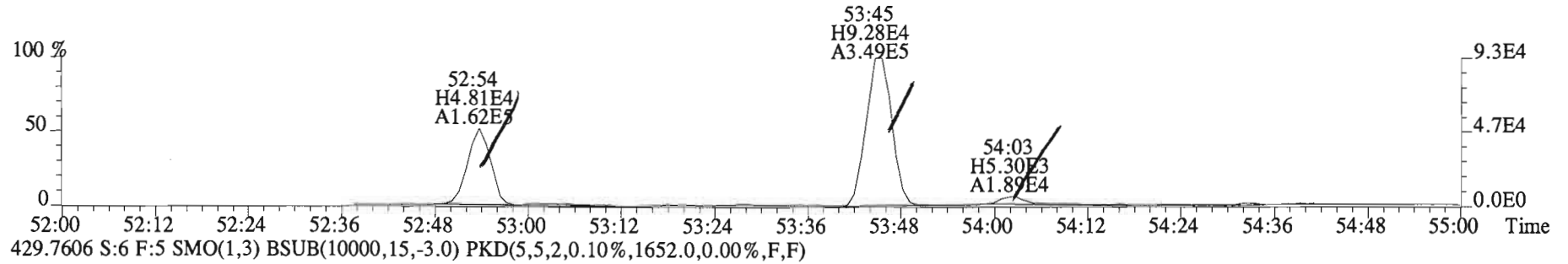
File:150226E1 #1-555 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1488.0,0.00%,F,F)



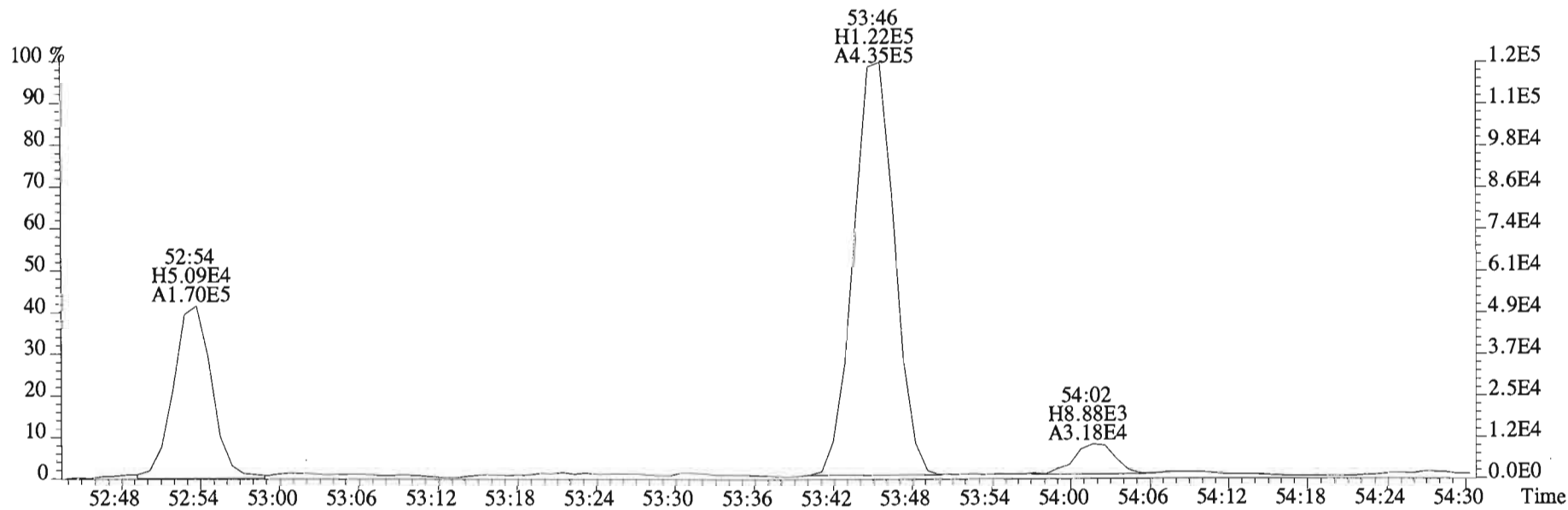
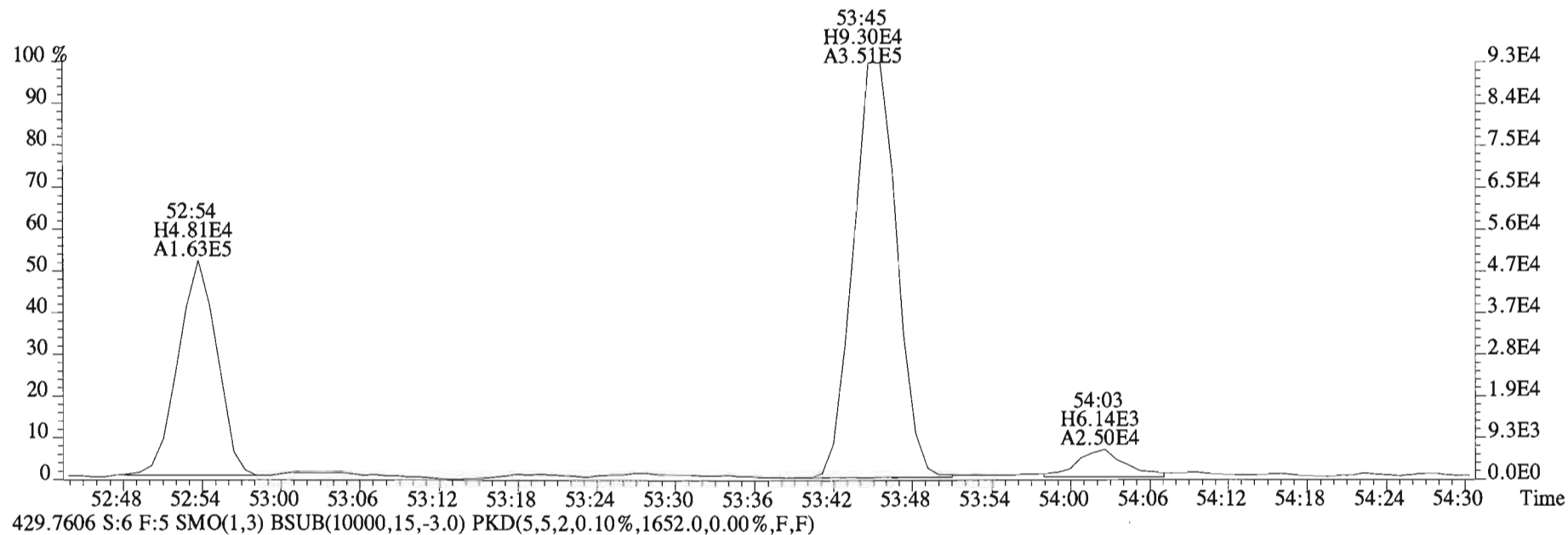
File:150226E1 #1-555 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
 427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1488.0,0.00%,F,F)



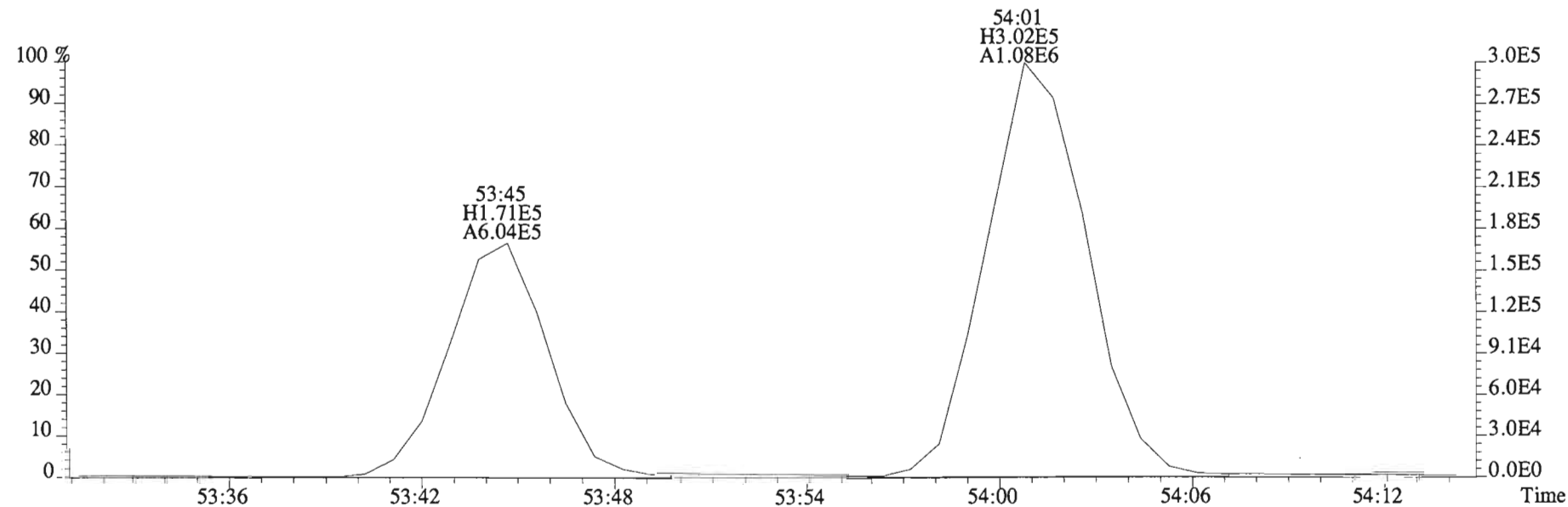
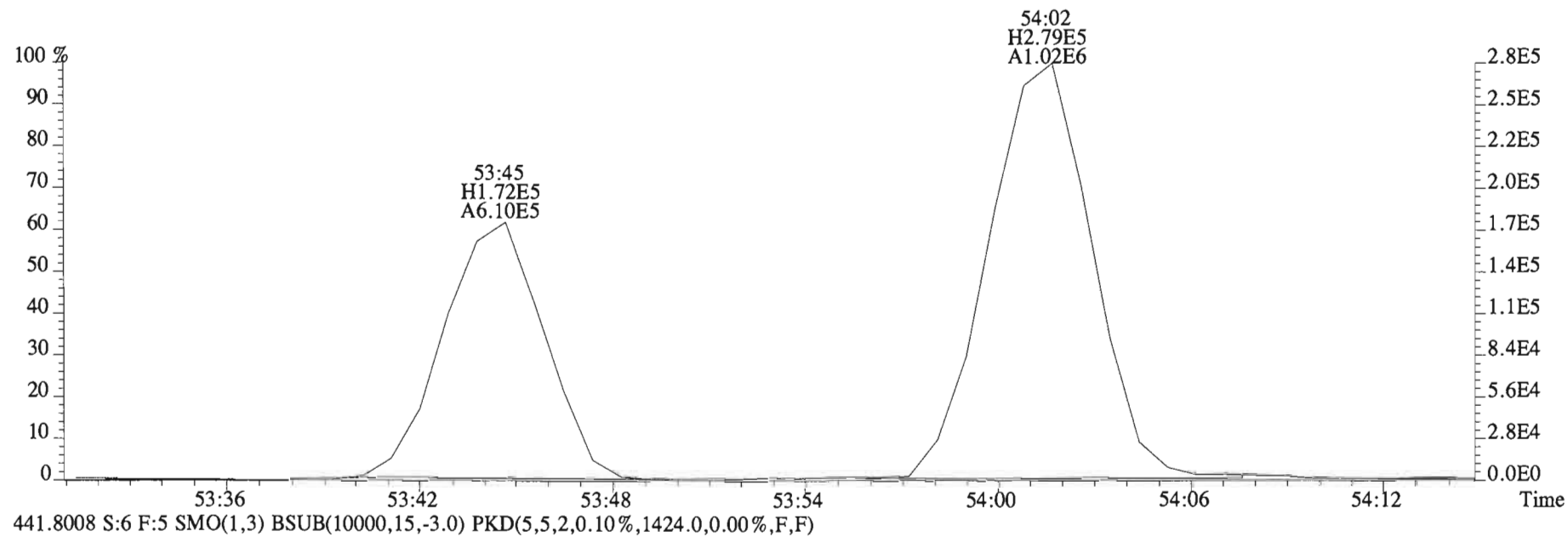
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
427.7635 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1448.0,0.00%,F,F)



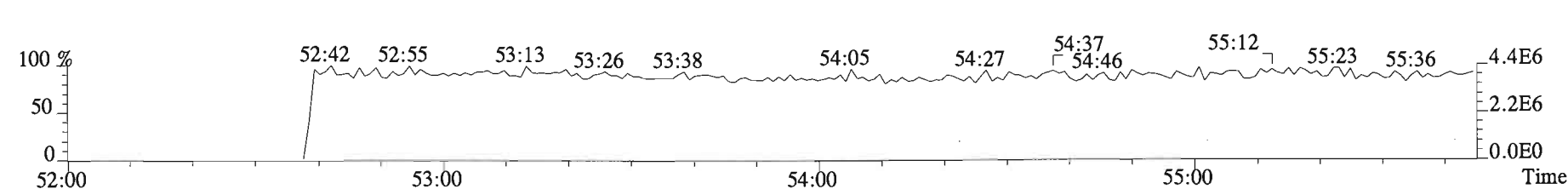
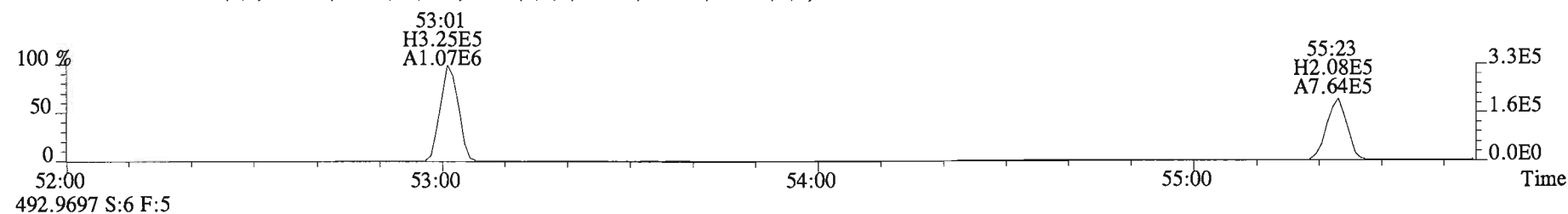
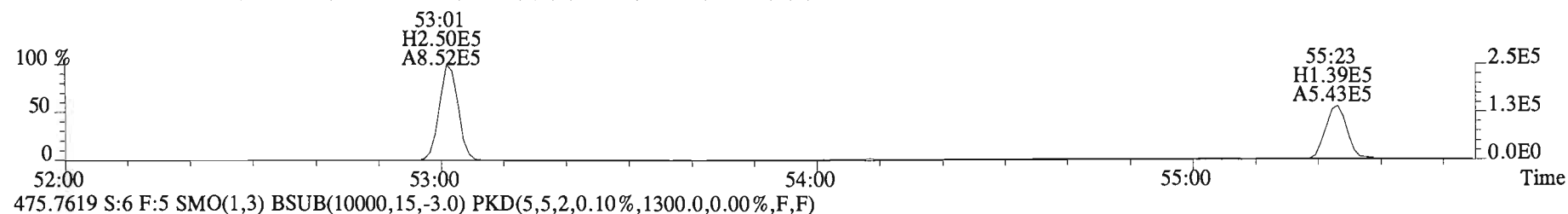
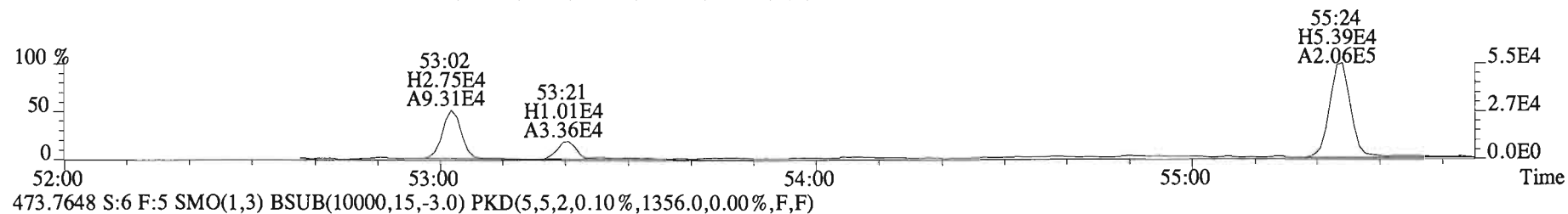
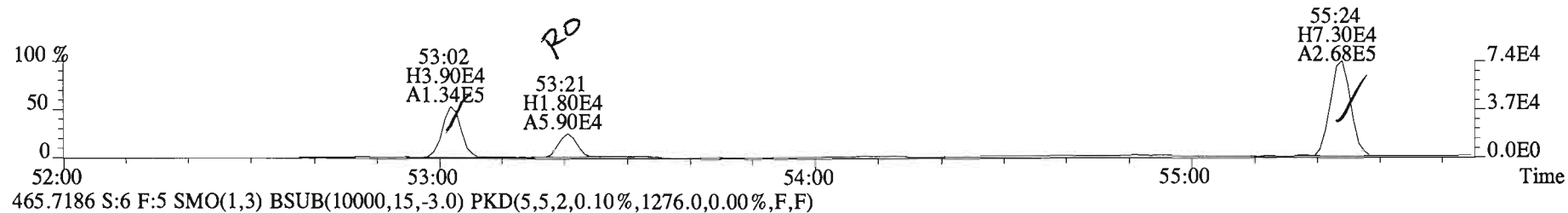
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1-
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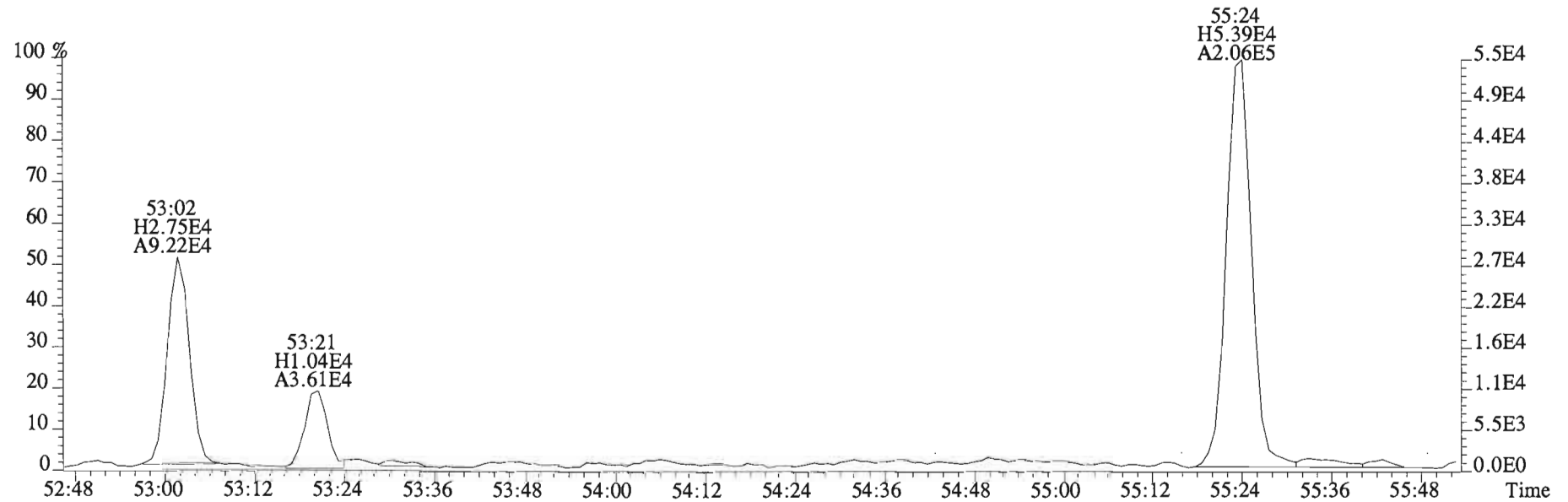
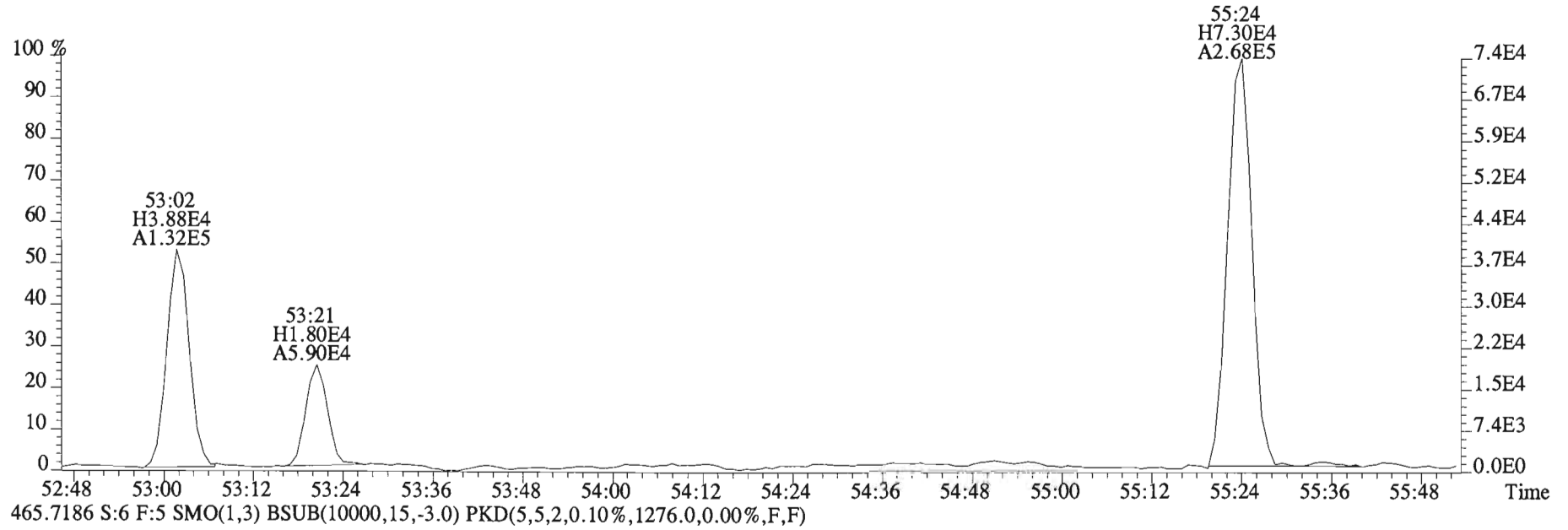
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
439.8038 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1584.0,0.00%,F,F)



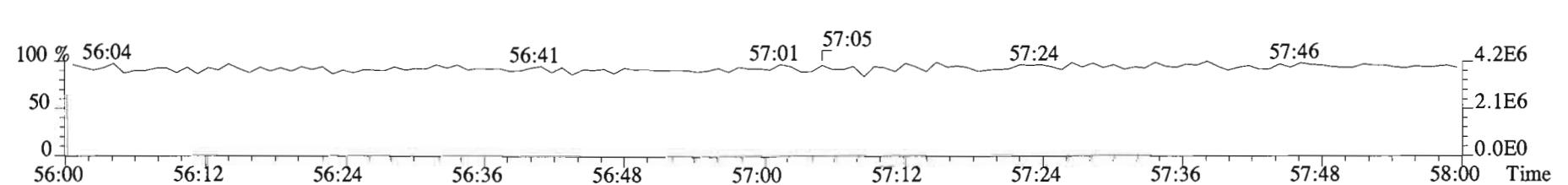
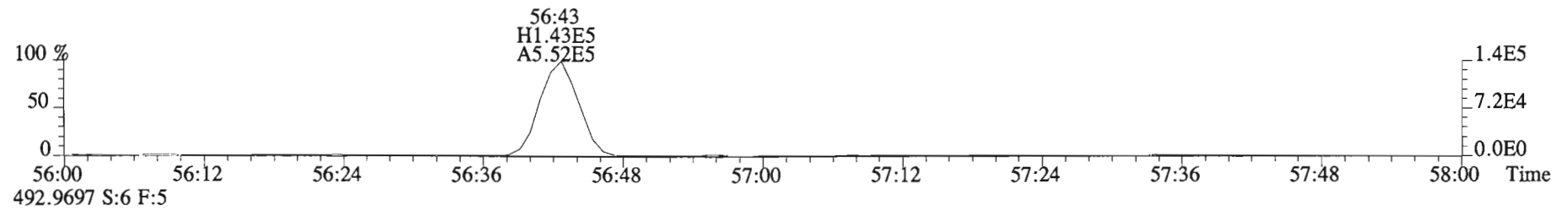
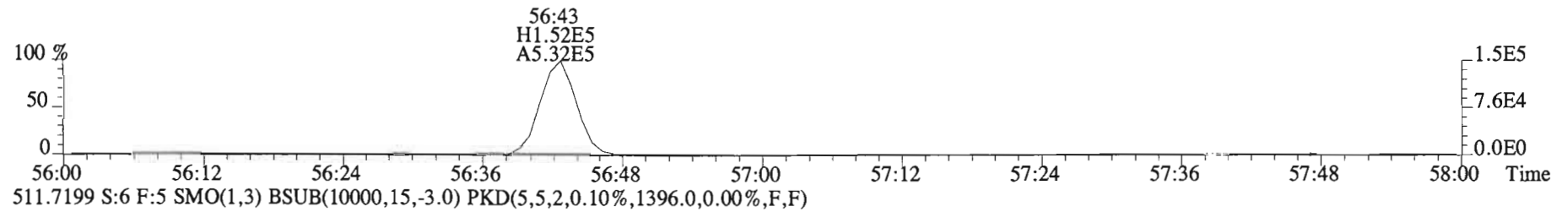
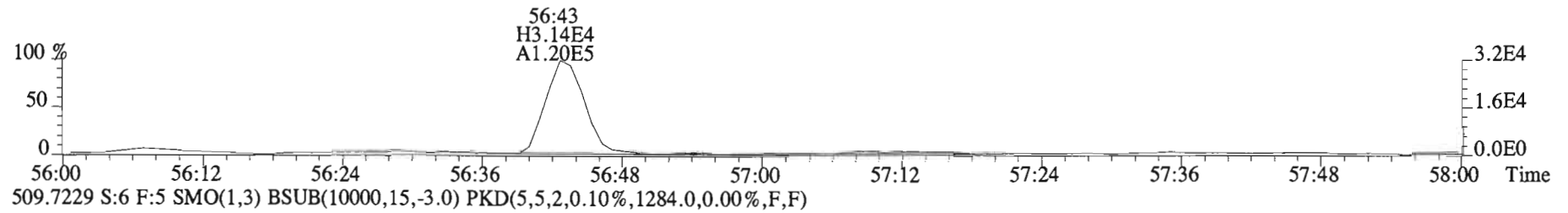
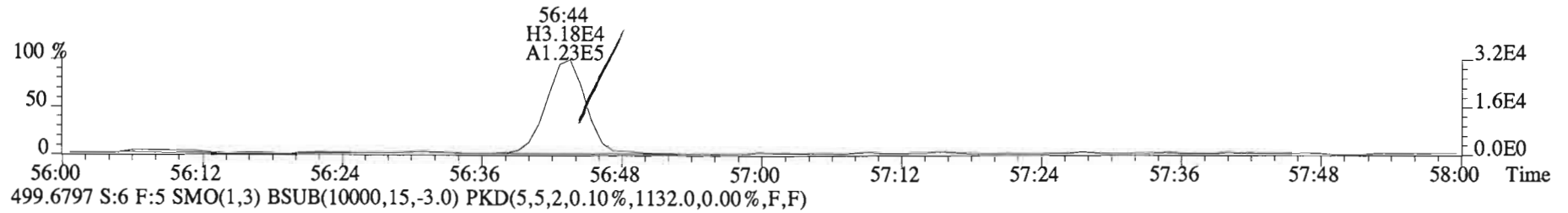
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Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
463.7216 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1220.0,0.00%,F,F)



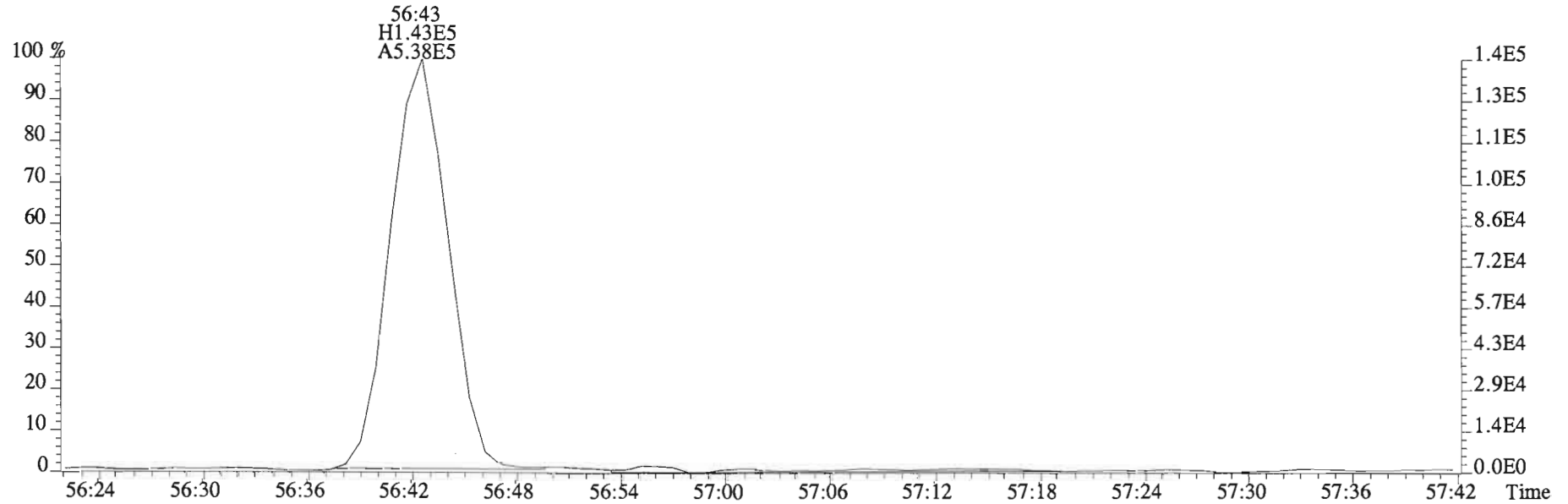
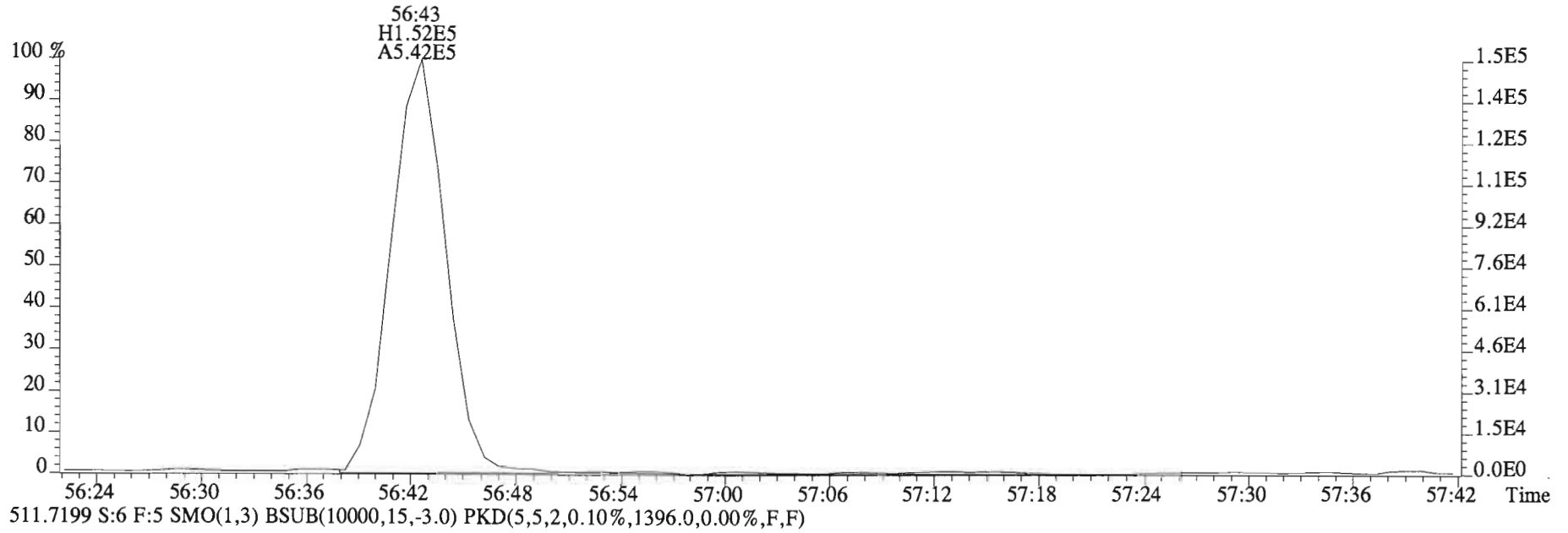
File:150226E1 #1-429 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
463.7216 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1220.0,0.00%,F,F)



File:150226E1 #1-429 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
497.6826 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,864.0,0.00%,F,F)



File:150226E1 #1-429 Acq:26-FEB-2015 17:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:1500166-01@10X ST-TS-01-20150210-W Exp:PCB_ZB1
509.7229 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1284.0,0.00%,F,F)



Client ID: ST-FD-02-20150210-W
Lab ID: 1500166-02@10X

Filename: 150226E1 S:7 Acq:26-FEB-15 18:10:48
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.000

ConCal: ST150226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	2.66e+05	2.87	y 16:10	1.33	72.5		*	2.5	*	1.001	0.997-1.007	
Mono	PCB-2	9.50e+04	3.06	y 18:33	1.30	23.3		*	2.5	*	0.989	0.983-0.993	
Mono	PCB-3	2.99e+05	2.99	y 18:47	1.30	73.2		*	2.5	*	1.001	0.996-1.006	
Di	PCB-4/10	2.80e+05	1.64	y 20:06	1.67	99.6		*	2.5	*	1.001	0.997-1.007	
Di	PCB-7/9	*	*	n NotF _η	1.25	*		8350	2.5	56.0	*	0.864-0.872	
Di	PCB-6	2.89e+05	1.34	y 22:34	1.24	83.4		*	2.5	*	0.894	0.888-0.897	
Di	PCB-5/8	1.12e+06	1.59	y 22:57	1.27	316		*	2.5	*	0.909	0.905-0.915	
Di	PCB-14	*	*	n NotF _η	1.47	*		8350	2.5	48.3	*	0.948-0.958	
Di	PCB-11	3.42e+05	1.69	y 25:15	1.28	90.7		*	2.5	*	1.000	0.995-1.005	
Di	PCB-12/13	*	*	n NotF _η	1.27	*		8350	2.5	56.1	*	1.011-1.021	
Di	PCB-15	1.87e+06	1.51	y 25:58	1.44	442		*	2.5	*	1.029	1.023-1.031	
Tri	PCB-19	1.46e+05	0.93	y 24:14	1.18	69.8		*	2.5	*	1.000	0.996-1.006	
Tri	PCB-30	*	*	n NotF _η	1.87	*		2020	2.5	12.4	*	1.033-1.043	
Tri	PCB-18	9.79e+05	1.12	y 25:53	0.89	430		*	2.5	*	0.954	0.949-0.959	
Tri	PCB-17	3.77e+05	1.12	y 26:03	0.96	154		*	2.5	*	0.960	0.956-0.966	
Tri	PCB-24/27	1.93e+05	0.99	y 26:37	1.30	57.8		*	2.5	*	0.981	0.977-0.987	
Tri	PCB-16/32	9.78e+05	1.04	y 27:08	1.05	363		*	2.5	*	1.000	0.996-1.006	
Tri	PCB-34	*	*	n NotF _η	1.30	*		1760	2.5	12.8	*	0.955-0.965	
Tri	PCB-23	*	*	n NotF _η	1.21	*		1760	2.5	13.7	*	0.958-0.968	
Tri	PCB-29	*	*	n NotF _η	1.21	*		1760	2.5	13.7	*	0.967-0.977	
Tri	PCB-26	4.06e+05	1.10	y 28:28	1.24	137		*	2.5	*	0.979	0.974-0.984	
Tri	PCB-25	2.11e+05	1.18	y 28:39	1.10	80.2		*	2.5	*	0.985	0.980-0.990	
Tri	PCB-31	1.96e+06	1.06	y 28:59	1.25	653		*	2.5	*	0.996	0.992-1.002	
Tri	PCB-28	2.94e+06	1.07	y 29:06	1.24	990		*	2.5	*	1.000	0.996-1.006	
Tri	PCB-20/21/33	1.23e+06	1.11	y 29:43	1.16	442		*	2.5	*	1.022	1.016-1.026	
Tri	PCB-22	7.92e+05	1.01	y 30:10	1.16	284		*	2.5	*	1.037	1.032-1.042	
Tri	PCB-36	*	*	n NotF _η	1.30	*		1760	2.5	14.0	*	0.929-0.939	
Tri	PCB-39	*	*	n NotF _η	1.26	*		1760	2.5	14.4	*	0.943-0.953	
Tri	PCB-38	*	*	n NotF _η	1.24	*		1760	2.5	14.6	*	0.967-0.977	
Tri	PCB-35	7.80e+04	1.25	n 32:32	1.26	25.8	R	*	2.5	*	0.987	0.982-0.992	
Tri	PCB-37	1.45e+06	1.09	y 32:58	1.35	445		*	2.5	*	1.000	0.996-1.006	
Tetra	PCB-54	*	*	n NotF _η	1.02	*		2230	2.5	18.4	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotF _η	0.78	*		2230	2.5	24.3	*	1.037-1.047	
Tetra	PCB-53	5.34e+05	0.77	y 29:47	1.14	279		*	2.5	*	0.946	0.941-0.951	
Tetra	PCB-51	1.29e+05	0.88	y 30:08	1.16	65.8		*	2.5	*	0.957	0.952-0.962	
Tetra	PCB-45	3.10e+05	0.84	y 30:33	1.04	177		*	2.5	*	0.970	0.965-0.975	
Tetra	PCB-46	1.62e+05	0.81	y 31:03	0.95	101		*	2.5	*	0.986	0.981-0.991	

Integrations by:

Analyst: DMS

Date: 3/2/15

Reviewed by: CT

Date: 3/2/15

Client ID: ST-FD-02-20150210-W
Lab ID: 1500166-02@10X

Filename: 150226E1 S:7 Acq:26-FEB-15 18:10:48
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.000

ConCal: ST150226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	5.31e+06	0.80	y 31:30	1.29	2440		*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-73	*	*	n NotF η	1.41	*		2230	2.5	19.9	*	0.999-1.009	
Tetra	PCB-43/49	1.58e+06	0.74	y 31:48	1.14	826		*	2.5	*	1.010	1.005-1.015	
Tetra	PCB-47	5.59e+05	0.84	y 32:01	1.20	278		*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-48/75	2.85e+05	0.78	y 32:08	1.33	128		*	2.5	*	1.005	0.999-1.009	
Tetra	PCB-65	*	*	n NotF η	1.32	*		2230	2.5	20.4	*	1.007-1.017	
Tetra	PCB-62	*	*	n NotF η	1.36	*		2230	2.5	19.8	*	1.011-1.021	
Tetra	PCB-44	2.25e+06	0.76	y 32:47	0.87	1540		*	2.5	*	1.025	1.020-1.030	
Tetra	PCB-42/59	7.29e+05	0.79	y 33:02	1.24	352		*	2.5	*	1.033	1.027-1.037	
Tetra	PCB-41/64/71/72	2.18e+06	0.78	y 33:36	1.34	971		*	2.5	*	1.051	1.045-1.055	
Tetra	PCB-68	3.02e+04	0.94	n 33:51	1.61	11.2	R	*	2.5	*	1.058	1.053-1.063	
Tetra	PCB-40	2.96e+05	0.68	y 34:05	0.86	206		*	2.5	*	1.066	1.061-1.071	
Tetra	PCB-57	*	*	n NotF η	1.12	*		2230	2.5	20.8	*	0.965-0.975	
Tetra	PCB-67	7.51e+04	0.71	y 34:45	1.09	31.8		*	2.5	*	0.979	0.974-0.984	
Tetra	PCB-58	*	*	n NotF η	1.14	*		2230	2.5	20.4	*	0.977-0.987	
Tetra	PCB-63	1.10e+05	0.83	y 35:00	1.16	43.8		*	2.5	*	0.986	0.981-0.991	
Tetra	PCB-74	1.55e+06	0.75	y 35:19	1.21	592		*	2.5	*	0.995	0.989-0.999	
Tetra	PCB-61/70	5.31e+06	0.78	y 35:31	1.13	2180		*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-76/66	3.35e+06	0.76	y 35:44	1.18	1310		*	2.5	*	1.007	1.000-1.010	
Tetra	PCB-80	*	*	n NotF η	1.32	*		2230	2.5	16.1	*	0.995-1.005	
Tetra	PCB-55	1.50e+05	0.84	y 36:13	1.23	50.7		*	2.5	*	1.008	1.004-1.014	
Tetra	PCB-56/60	1.91e+06	0.79	y 36:45	1.11	719		*	2.5	*	1.023	1.018-1.028	
Tetra	PCB-79	1.83e+05	0.88	y 37:50	1.16	65.8		*	2.5	*	1.053	1.048-1.058	
Tetra	PCB-78	*	*	n NotF η	1.18	*		2230	2.5	19.9	*	0.982-0.992	
Tetra	PCB-81	4.51e+04	0.95	n 39:01	1.29	16.8	R	*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-77	5.51e+05	0.85	y 39:38	1.29	205		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-104	*	*	n NotF η	1.26	*		1190	2.5	18.7	*	0.996-1.006	
Penta	PCB-96	6.02e+04	1.75	y 33:55	1.09	37.7		*	2.5	*	1.039	1.034-1.044	
Penta	PCB-103	6.07e+04	1.73	y 34:27	0.97	42.9		*	2.5	*	1.055	1.051-1.061	
Penta	PCB-100	*	*	n NotF η	0.96	*		1190	2.5	24.5	*	1.061-1.071	
Penta	PCB-94	*	*	n NotF η	1.13	*		1190	2.5	28.1	*	0.980-0.990	
Penta	PCB-95/98/102	8.35e+06	1.56	y 35:49	1.29	5510		*	2.5	*	1.000	0.994-1.004	
Penta	PCB-93	*	*	n NotF η	1.06	*		1190	2.5	29.9	*	0.998-1.008	
Penta	PCB-88/91	1.26e+06	1.66	y 36:13	1.12	950		*	2.5	*	1.012	1.006-1.016	
Penta	PCB-121	*	*	n NotF η	1.76	*		1190	2.5	18.0	*	1.009-1.019	
Penta	PCB-84/92	3.92e+06	1.58	y 37:08	1.07	3040		*	2.5	*	0.991	0.985-0.995	
Penta	PCB-89	6.47e+04	2.02	n 37:19	1.00	53.9	R	*	2.5	*	0.996	0.990-1.000	

Analyst: DMS

Date: 3/2/15

Client ID: ST-FD-02-20150210-W
Lab ID: 1500166-02@10X

Filename: 150226E1 S:7 Acq:26-FEB-15 18:10:48
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.000

ConCal: ST150226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	8.26e+06	1.56	y 37:29	1.21	5680	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-113	2.13e+04	1.59	y 37:42	1.34	13.2	*	2.5	*	*	1.006	1.002-1.012	
Penta	PCB-99	3.17e+06	1.58	y 37:50	1.25	2100	*	2.5	*	*	1.009	1.004-1.014	
Penta	PCB-119	1.99e+05	1.47	y 38:17	1.88	101	*	2.5	*	*	0.987	0.982-0.992	
Penta	PCB-108/112	4.61e+05	1.46	y 38:27	1.41	313	*	2.5	*	*	0.992	0.986-0.996	
Penta	PCB-83	*	*	n NotF η	1.66	*		1190	2.5	21.5	*	0.990-1.000	
Penta	PCB-97	2.42e+06	1.56	y 38:48	1.30	1780	*	2.5	*	*	1.001	0.995-1.005	
Penta	PCB-86	*	*	n NotF η	1.03	*		1190	2.5	34.5	*	0.999-1.009	
Penta	PCB-87/117/125	3.40e+06	1.54	y 39:05	1.59	2040	*	2.5	*	*	1.008	1.002-1.012	
Penta	PCB-111/115	1.81e+05	1.69	y 39:13	1.86	93.2	*	2.5	*	*	1.011	1.006-1.016	
Penta	PCB-85/116	1.31e+06	1.49	y 39:21	1.39	899	*	2.5	*	*	1.015	1.010-1.020	
Penta	PCB-120	*	*	n NotF η	1.99	*		1190	2.5	17.9	*	1.016-1.026	
Penta	PCB-110	1.58e+07	1.59	y 39:45	1.70	8860	*	2.5	*	*	1.025	1.019-1.029	
Penta	PCB-82	9.07e+05	1.61	y 40:22	0.74	846	*	2.5	*	*	0.976	0.971-0.981	
Penta	PCB-124	5.02e+05	1.58	y 41:02	1.30	267	*	2.5	*	*	0.993	0.988-0.998	
Penta	PCB-107/109	5.68e+05	1.80	n 41:12	1.34	295	R	*	2.5	*	0.997	0.991-1.001	
Penta	PCB-123	1.77e+05	1.36	y 41:21	1.25	98.1	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-106/118	8.79e+06	1.60	y 41:32	1.29	4690	*	2.5	*	*	1.000	0.996-1.006	
Penta	PCB-114	1.87e+05	1.34	y 42:11	1.45	80.6	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-122	1.16e+05	1.97	n 42:19	1.22	59.6	R	*	2.5	*	1.003	0.999-1.009	
Penta	PCB-105	3.90e+06	1.64	y 43:03	1.56	1600	*	2.5	*	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n NotF η	1.31	*		2070	2.5	32.0	*	0.995-1.005	
Penta	PCB-126	8.51e+04	1.70	y 45:17	1.41	43.3	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-155	*	*	n NotF η	1.20	*		1050	2.5	19.1	*	0.966-1.006	
Hexa	PCB-150	*	*	n NotF η	1.13	*		1050	2.5	20.3	*	1.030-1.040	
Hexa	PCB-152	*	*	n NotF η	1.17	*		1050	2.5	19.6	*	1.043-1.053	
Hexa	PCB-145	*	*	n NotF η	1.09	*		1050	2.5	20.9	*	1.055-1.065	
Hexa	PCB-136	1.49e+06	1.23	y 39:33	1.14	1040	*	2.5	*	*	1.068	1.063-1.073	
Hexa	PCB-148	*	*	n NotF η	0.82	*		1050	2.5	28.0	*	1.066-1.076	
Hexa	PCB-154	9.22e+04	1.29	y 40:08	0.89	82.0	*	2.5	*	*	1.084	1.079-1.089	
Hexa	PCB-151	1.80e+06	1.33	y 40:47	0.82	1740	*	2.5	*	*	1.101	1.097-1.107	
Hexa	PCB-135	1.18e+06	1.24	y 41:00	0.80	1170	*	2.5	*	*	1.107	1.101-1.113	
Hexa	PCB-144	4.37e+05	1.24	y 41:06	0.86	404	*	2.5	*	*	1.110	1.105-1.116	
Hexa	PCB-147	1.90e+05	1.18	y 41:14	0.78	193	*	2.5	*	*	1.114	1.108-1.120	
Hexa	PCB-139/149	7.61e+06	1.30	y 41:29	0.87	6910	*	2.5	*	*	1.120	1.115-1.127	
Hexa	PCB-140	6.17e+04	1.25	y 41:40	0.78	62.8	*	2.5	*	*	1.125	1.120-1.132	
Hexa	PCB-134/143	7.40e+05	1.22	y 42:08	0.93	556	*	2.5	*	*	0.976	0.970-0.980	

Analyst: Dms

Date: 3/2/15

Client ID: ST-FD-02-20150210-W
Lab ID: 1500166-02@10X

Filename: 150226E1 S:7 Acq:26-FEB-15 18:10:48
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.000

ConCal: ST150226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	3.96e+05	1.11	y 42:25	0.91	304	*	*	2.5	*	0.982	0.977-0.987	
Hexa	PCB-131	*	*	n NotF η	0.85	*	*	1140	2.5	25.5	*	0.981-0.991	
Hexa	PCB-146/165	1.98e+06	1.24	y 42:48	1.08	1280	*	*	2.5	*	0.991	0.986-0.996	
Hexa	PCB-132/161	5.15e+06	1.24	y 43:04	1.12	3220	*	*	2.5	*	0.997	0.992-1.002	
Hexa	PCB-153	1.13e+07	1.33	y 43:13	1.20	6620	*	*	2.5	*	1.001	0.996-1.006	
Hexa	PCB-168	*	*	n NotF η	1.36	*	*	1140	2.5	15.9	*	1.000-1.010	
Hexa	PCB-141	2.57e+06	1.25	y 43:57	1.16	1650	*	*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-137	7.61e+05	1.28	y 44:20	1.18	480	*	*	2.5	*	1.009	1.004-1.014	
Hexa	PCB-130	8.37e+05	1.31	y 44:25	0.92	675	*	*	2.5	*	1.011	1.006-1.016	
Hexa	PCB-138/163/164	1.64e+07	1.31	y 44:47	1.38	9350	*	*	2.5	*	1.000	0.996-1.006	
Hexa	PCB-158/160	2.01e+06	1.25	y 45:01	1.48	1070	*	*	2.5	*	1.005	1.001-1.011	
Hexa	PCB-129	6.72e+05	1.31	y 45:17	0.99	533	*	*	2.5	*	1.011	1.007-1.017	
Hexa	PCB-166	4.55e+04	2.24	n 45:45	1.14	26.2	R	*	2.5	*	0.993	0.988-0.998	
Hexa	PCB-159	*	*	n NotF η	1.22	*	*	1140	2.5	17.4	*	0.995-1.005	
Hexa	PCB-128/162	2.72e+06	1.42	y 46:21	1.03	1730	*	*	2.5	*	1.006	1.002-1.012	
Hexa	PCB-167	7.27e+05	1.31	y 46:45	1.18	411	*	*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-156	1.45e+06	1.26	y 48:03	1.27	789	*	*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-157	4.28e+05	1.22	y 48:18	1.22	232	*	*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-169	*	*	n NotF η	1.07	*	*	1140	2.5	21.8	*	0.995-1.005	
Hepta	PCB-188	*	*	n NotF η	1.52	*	*	1000	2.5	9.82	*	0.996-1.006	
Hepta	PCB-184	*	*	n NotF η	1.34	*	*	1000	2.5	11.1	*	1.006-1.016	
Hepta	PCB-179	1.36e+06	1.01	y 44:03	1.39	865	*	*	2.5	*	1.029	1.024-1.034	
Hepta	PCB-176	4.43e+05	1.03	y 44:31	1.45	270	*	*	2.5	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotF η	1.46	*	*	1000	2.5	10.2	*	1.049-1.059	
Hepta	PCB-178	4.75e+05	1.03	y 45:38	1.07	392	*	*	2.5	*	1.066	1.061-1.071	
Hepta	PCB-175	1.16e+05	1.16	y 45:58	1.05	98.2	*	*	2.5	*	1.074	1.069-1.079	
Hepta	PCB-182/187	2.95e+06	1.08	y 46:07	1.14	2300	*	*	2.5	*	1.077	1.073-1.083	
Hepta	PCB-183	1.52e+06	1.02	y 46:28	1.22	1100	*	*	2.5	*	1.085	1.080-1.090	
Hepta	PCB-185	2.94e+05	1.01	y 47:07	1.40	279	*	*	2.5	*	0.956	0.950-0.960	
Hepta	PCB-174	2.47e+06	1.01	y 47:29	1.29	2560	*	*	2.5	*	0.963	0.958-0.968	
Hepta	PCB-181	*	*	n NotF η	1.35	*	*	1000	2.5	19.0	*	0.960-0.970	
Hepta	PCB-177	1.32e+06	1.01	y 47:45	1.27	1390	*	*	2.5	*	0.969	0.963-0.973	
Hepta	PCB-171	7.04e+05	1.15	y 48:03	1.46	644	*	*	2.5	*	0.975	0.969-0.979	
Hepta	PCB-173	5.08e+04	1.25	n 48:28	1.10	61.3	R	*	2.5	*	0.983	0.978-0.988	
Hepta	PCB-172	3.72e+05	1.36	n 48:55	1.35	367	R	*	2.5	*	0.992	0.987-0.997	
Hepta	PCB-192	*	*	n NotF η	1.74	*	*	1000	2.5	14.7	*	0.991-1.001	
Hepta	PCB-180	5.25e+06	1.08	y 49:19	1.45	4830	*	*	2.5	*	1.000	0.995-1.005	

Analyst: Dms

Date: 3/2/15

Client ID: ST-FD-02-20150210-W
Lab ID: 1500166-02@10X

Filename: 150226E1 S:7 Acq:26-FEB-15 18:10:48
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.000

ConCal: ST150226E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	3.27e+05	0.90	y 49:32	1.85	236		*	2.5	*	1.005	0.999-1.009	
Hepta	PCB-191	1.50e+05	1.18	y 49:46	1.86	107		*	2.5	*	1.009	1.005-1.015	
Hepta	PCB-170	2.02e+06	1.12	y 50:47	1.67	2100		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-190	5.55e+05	1.13	y 50:57	2.25	428		*	2.5	*	1.004	0.999-1.009	
Hepta	PCB-189	1.13e+05	1.26	n 52:15	1.67	95.1	R	*	2.5	*	1.000	0.995-1.005	
Octa	PCB-202	2.73e+05	1.02	y 48:16	1.02	275		*	2.5	*	1.001	0.995-1.005	
Octa	PCB-201	1.80e+05	0.77	y 48:44	1.10	168		*	2.5	*	1.010	1.005-1.015	
Octa	PCB-204	*	*	n NotF η	1.07	*		1000	2.5	20.5	*	1.009-1.019	
Octa	PCB-197	5.05e+04	0.80	y 49:12	1.17	44.4		*	2.5	*	1.020	1.015-1.025	
Octa	PCB-200	1.79e+05	0.97	y 50:03	1.03	177		*	2.5	*	1.038	1.034-1.044	
Octa	PCB-198	2.44e+04	1.32	n 51:22	0.75	33.2	R	*	2.5	*	1.065	1.062-1.072	
Octa	PCB-199	9.57e+05	0.89	y 51:27	0.74	1320		*	2.5	*	1.067	1.064-1.074	
Octa	PCB-196/203	1.06e+06	0.90	y 51:44	0.83	1310		*	2.5	*	1.072	1.070-1.080	
Octa	PCB-195	3.04e+05	0.84	y 52:53	1.14	439		*	2.5	*	0.984	0.979-0.989	
Octa	PCB-194	7.45e+05	0.93	y 53:45	1.29	947		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	4.63e+04	0.91	y 54:02	1.61	47.2		*	2.5	*	1.005	1.001-1.010	
Nona	PCB-208	2.04e+05	1.22	y 53:02	1.01	209		*	2.5	*	1.000	0.995-1.005	
Nona	PCB-207	7.42e+04	1.22	y 53:20	1.03	74.8		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-206	3.87e+05	1.30	y 55:24	0.88	763		*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	2.13e+05	1.10	y 56:44	1.35	292		*	2.5	*	1.000	0.995-1.005	

Analyst: DMZ

Date: 3/2/15

Client ID: ST-FD-02-20150210-W
Lab ID: 1500166-02@10X

Filename: 150226E1 S:7 Acq:26-FEB-15 18:10:48
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.0000 EndCAL: NA

ConCal: ST150226E1-1

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Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	6.60e+05	2.87 y	16:10	1.31	168.974	
Total Di-PCB	3.90e+06	1.64 y	20:06	1.32	1031.26	
Total Tri-PCB	2.67e+06	0.93 y	24:14	1.20	1074.08	
Total Tri-PCB	8.98e+06	1.10 y	28:28	1.23	3030.89	Sum:4104.97
Total Tetra-PCB	2.75e+07	0.77 y	29:47	1.17	12569.7	
Total Penta-PCB	5.92e+07	1.75 y	33:55	1.24	37356.7	
Total Penta-PCB	4.17e+06	1.34 y	42:11	1.39	1725.15	Sum:39081.9
Total Hexa-PCB	1.29e+07	1.23 y	39:33	0.94	11600.8	
Total Hexa-PCB	4.82e+07	1.22 y	42:08	1.13	28891.9	Sum:40492.7
Total Hepta-PCB	2.00e+07	1.01 y	44:03	1.37	17604.1	
Total Octa-PCB	2.70e+06	1.02 y	48:16	0.95	3301.65	
Total Octa-PCB	1.10e+06	0.84 y	52:53	1.35	1433.29	Sum:4734.94
Total Nona-PCB	6.66e+05	1.22 y	53:02	0.99	1047.22	
Total Deca-PCB	2.13e+05	1.10 y	56:44	1.35	291.782	

Total PCB Conc:122171.794538

Integrations

by
Analyst: DMJ

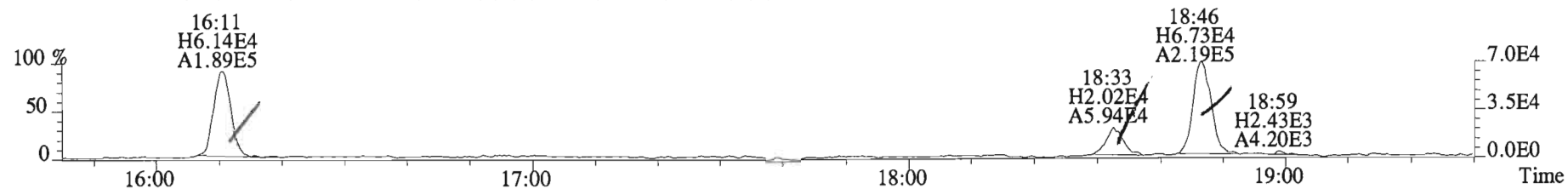
Date: 3/2/15

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	5.51e+06	3.40	y	0.91	16:09	0.623	0.619-0.625	1580	79.1											
13C-PCB-3	6.29e+06	3.36	y	0.94	18:46	0.723	0.718-0.726	1750	87.3		13C-PCB-79	5.34e+06	0.78	y	1.02	37:47	1.029	1.024-1.033	1800	90.0
13C-PCB-4	3.37e+06	1.55	y	0.60	20:05	0.774	0.770-0.778	1470	73.6		13C-PCB-178	1.80e+06	0.44	y	0.64	45:36	0.984	0.980-0.989	2030	102
13C-PCB-9	5.60e+06	1.55	y	0.96	21:52	0.843	0.839-0.847	1520	76.1											
13C-PCB-11	5.89e+06	1.54	y	0.95	25:14	0.973	0.968-0.978	1610	80.6											
13C-PCB-19	3.54e+06	1.10	y	0.56	24:14	0.934	0.929-0.939	1650	82.4	PS vs. IS										
13C-PCB-28	4.80e+06	1.11	y	1.07	29:05	1.004	0.999-1.009	1390	69.7		13C-PCB-79	5.34e+06	0.78	y	1.02	37:47	0.968	0.963-0.973	2500	125
13C-PCB-32	5.15e+06	1.11	y	0.83	27:08	1.046	1.041-1.051	1630	81.4		13C-PCB-178	1.80e+06	0.44	y	0.84	45:36	0.925	0.920-0.930	2850	143
13C-PCB-37	4.81e+06	1.04	y	0.96	32:57	1.137	1.131-1.143	1550	77.7											
13C-PCB-47	3.36e+06	0.76	y	0.77	31:59	0.871	0.867-0.875	1500	75.2											
13C-PCB-52	3.37e+06	0.79	y	0.71	31:29	0.857	0.853-0.861	1630	81.4											
13C-PCB-54	4.62e+06	0.75	y	1.06	27:58	0.761	0.757-0.765	1500	75.0											
13C-PCB-70	4.33e+06	0.88	y	0.99	35:30	0.966	0.961-0.971	1500	75.0											
13C-PCB-77	4.16e+06	0.72	y	0.96	39:37	1.078	1.073-1.083	1490	74.3											
13C-PCB-80	4.81e+06	0.86	y	1.02	35:55	0.978	0.973-0.983	1620	81.0											
13C-PCB-81	4.17e+06	0.81	y	1.00	39:01	1.062	1.057-1.067	1440	71.9											
13C-PCB-95	2.35e+06	1.62	y	0.70	35:48	0.913	0.908-0.918	1660	82.8	RS										
13C-PCB-97	2.09e+06	1.50	y	0.66	38:47	0.989	0.984-0.994	1570	78.3		Name	Resp	RA	RRF	RT	Conc				
13C-PCB-101	2.41e+06	1.39	y	0.77	37:29	0.956	0.951-0.961	1550	77.3		13C-PCB-15	7.66e+06	1.54	y	1.00	25:56	2000			
13C-PCB-104	2.92e+06	1.47	y	0.97	32:38	0.832	0.828-0.836	1490	74.3		13C-PCB-31	6.44e+06	0.99	y	1.00	28:59	2000			
13C-PCB-105	3.13e+06	1.52	y	1.20	43:02	0.929	0.924-0.934	1870	93.3		13C-PCB-60	5.81e+06	0.83	y	1.00	36:44	2000			
13C-PCB-114	3.20e+06	1.64	y	1.26	42:11	0.910	0.905-0.915	1820	91.2		13C-PCB-111	4.07e+06	1.57	y	1.00	39:13	2000			
13C-PCB-118	2.91e+06	1.68	y	0.94	41:31	1.059	1.054-1.064	1530	76.3		13C-PCB-128	2.79e+06	1.44	n	1.00	46:20	2000			
13C-PCB-123	2.89e+06	1.59	y	0.88	41:21	1.054	1.049-1.059	1610	80.6		13C-PCB-205	2.23e+06	0.85	y	1.00	54:01	2000			
13C-PCB-126	2.78e+06	1.50	y	1.13	45:16	0.977	0.972-0.982	1770	88.5											
13C-PCB-127	3.11e+06	1.57	y	1.26	43:23	0.936	0.931-0.941	1770	88.6											
13C-PCB-138	2.55e+06	1.22	y	1.12	44:46	0.966	0.961-0.971	1630	81.6											
13C-PCB-141	2.69e+06	1.37	y	1.09	43:56	0.948	0.943-0.953	1770	88.3											
13C-PCB-153	2.86e+06	1.20	y	1.27	43:11	0.932	0.927-0.937	1610	80.6											
13C-PCB-155	2.53e+06	1.24	y	0.87	37:02	0.944	0.939-0.949	1430	71.5											
13C-PCB-156	2.89e+06	1.36	y	1.35	48:02	1.037	1.032-1.042	1540	76.8											
13C-PCB-157	3.02e+06	1.35	y	1.42	48:18	1.042	1.037-1.047	1530	76.5											
13C-PCB-159	3.04e+06	1.29	y	1.37	46:03	0.994	0.989-0.999	1590	79.7											
13C-PCB-167	2.99e+06	1.31	y	1.38	46:44	1.009	1.004-1.014	1550	77.5											
13C-PCB-169	2.69e+06	1.36	y	1.38	50:25	1.088	1.084-1.094	1400	69.9											
13C-PCB-170	1.15e+06	0.38	y	0.60	50:46	1.096	1.091-1.103	1370	68.5											
13C-PCB-180	1.50e+06	0.47	y	0.76	49:18	1.064	1.059-1.069	1420	71.1											
13C-PCB-188	2.26e+06	0.45	y	1.01	42:49	0.924	0.919-0.929	1590	79.7											
13C-PCB-189	1.42e+06	0.48	y	0.80	52:14	1.127	1.124-1.136	1270	63.6											
13C-PCB-194	1.22e+06	0.92	y	0.75	53:44	0.995	0.990-1.000	1470	73.4											
13C-PCB-202	1.95e+06	0.88	y	0.99	48:14	1.041	1.036-1.046	1420	70.8											
13C-PCB-206	1.15e+06	0.87	y	0.73	55:23	1.025	1.020-1.301	1410	70.5											
13C-PCB-208	1.93e+06	0.81	y	1.08	53:01	0.982	0.977-0.987	1600	80.0											
13C-PCB-209	1.09e+06	1.22	y	0.71	56:44	1.050	1.045-1.055	1370	68.6											

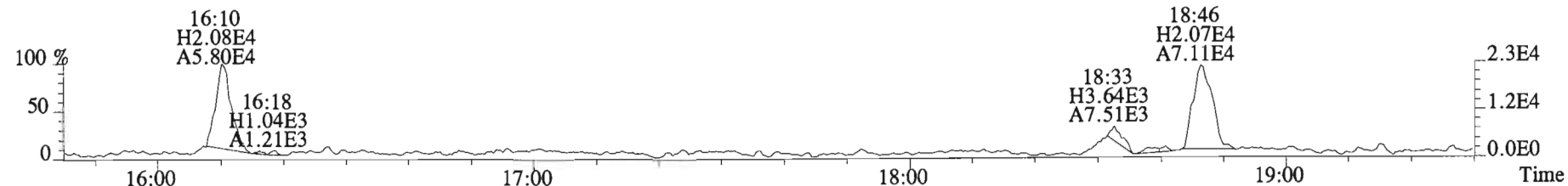
Analyst: DMS

Date: 2/27/15

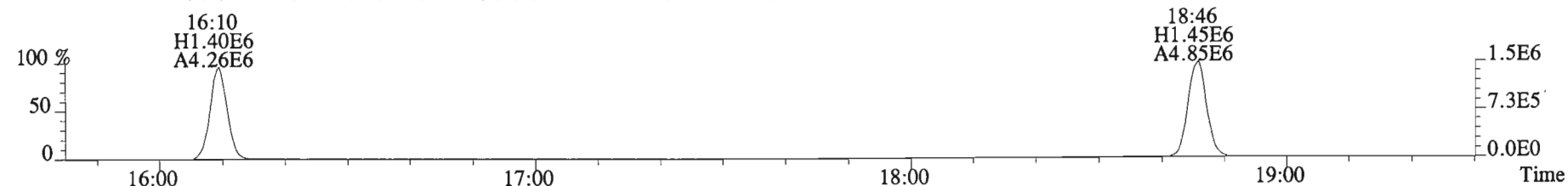
File:150226E1 #1-728 Acq:26-FEB-2015 18:10:48 GC EI+ Voltage SIR Autospec-UltimaE
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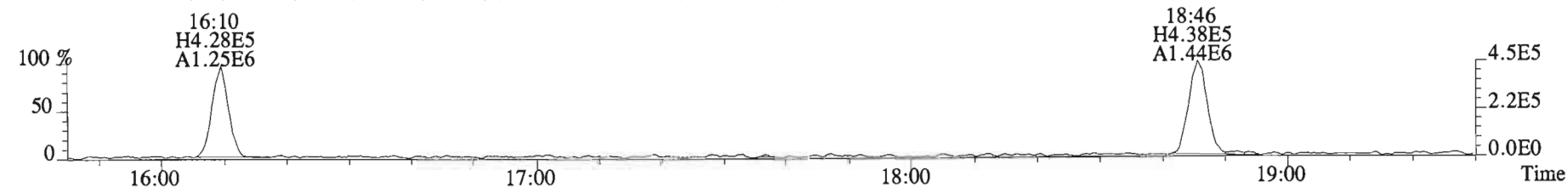
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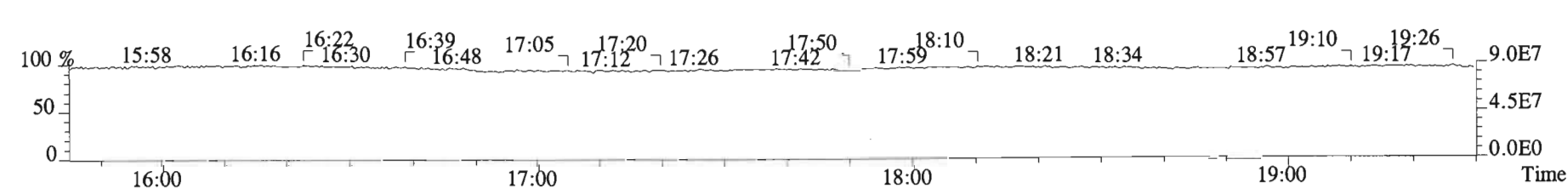
200.0795 S:7 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2516.0,0.00%,F,F)



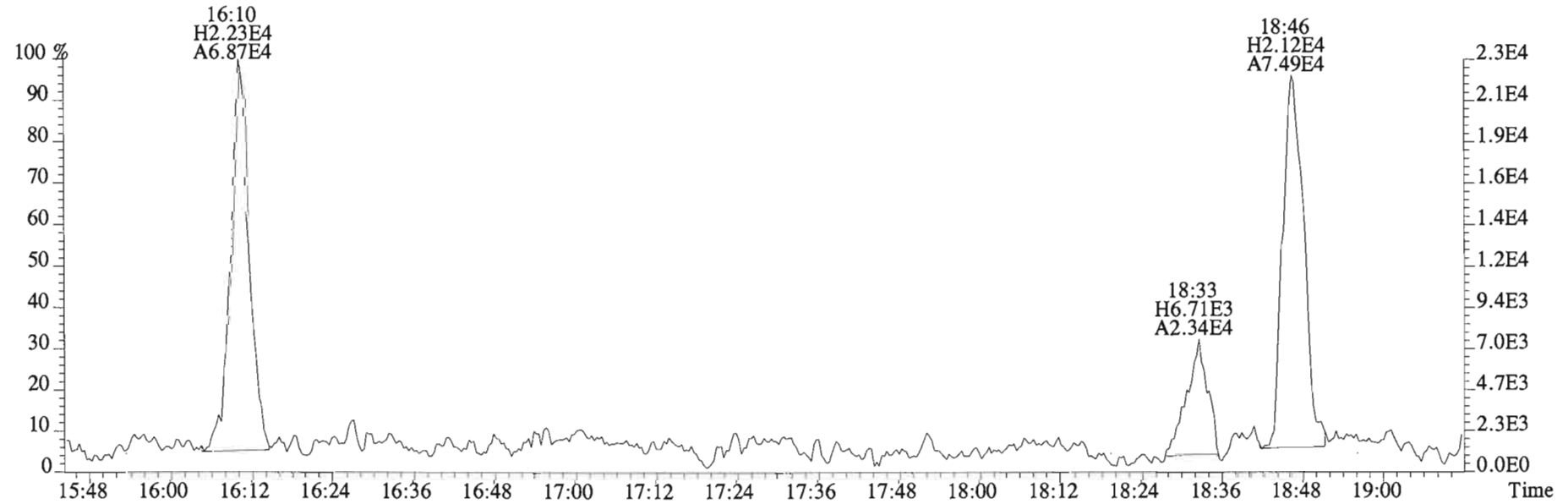
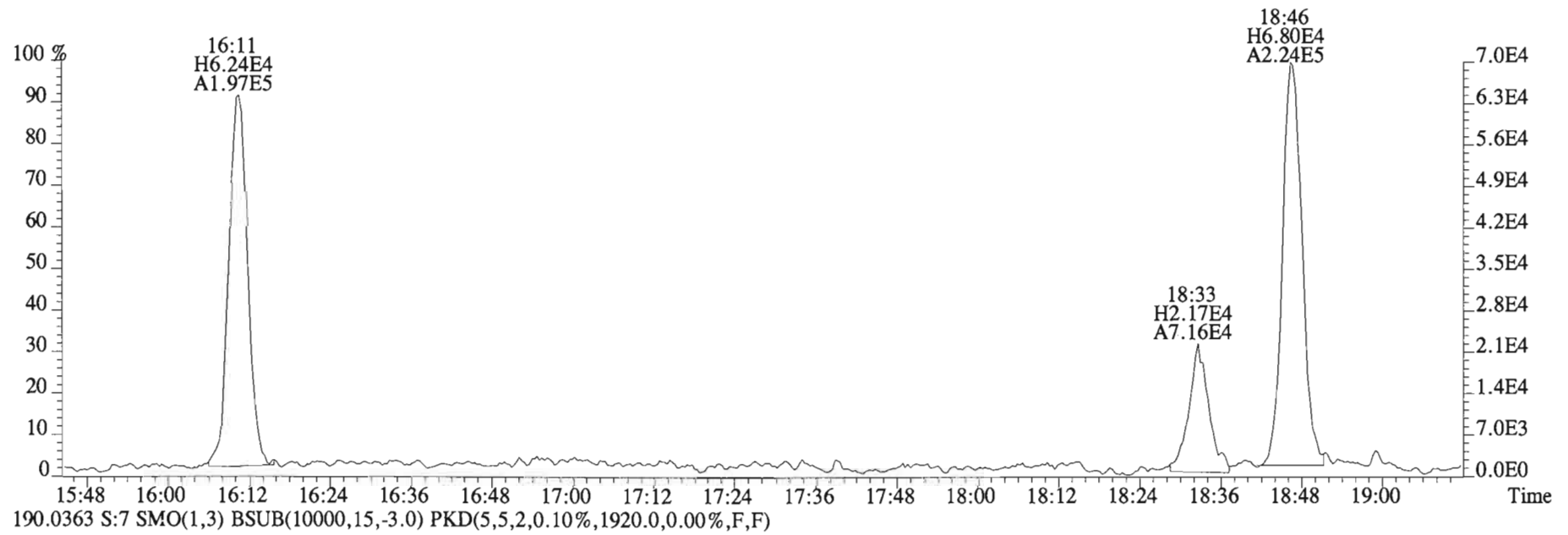
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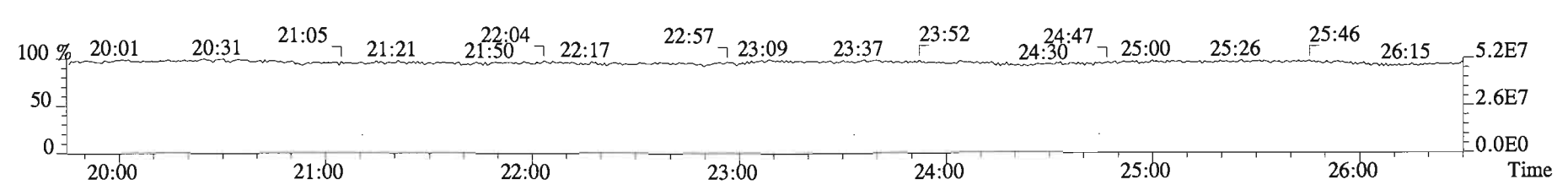
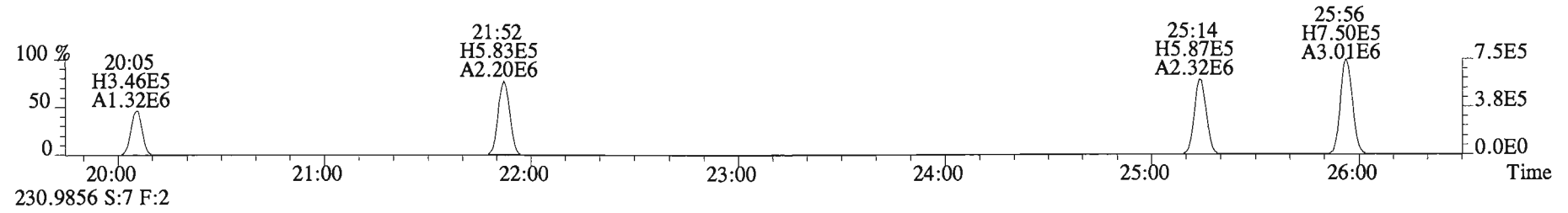
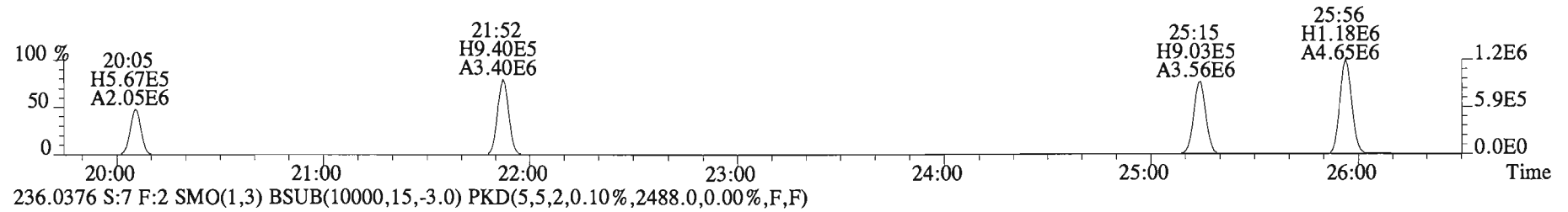
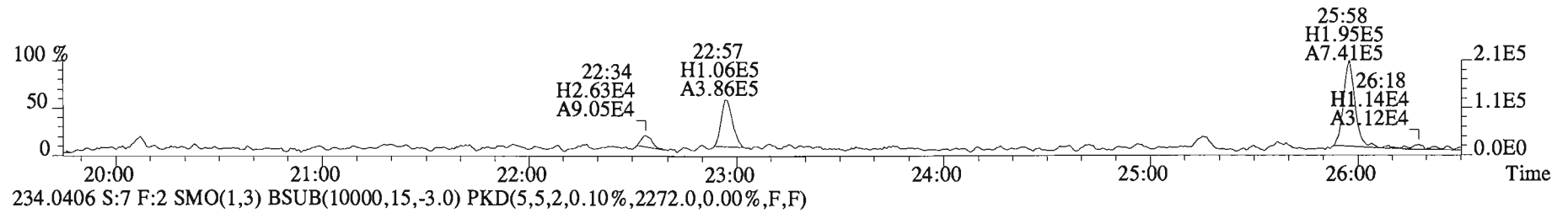
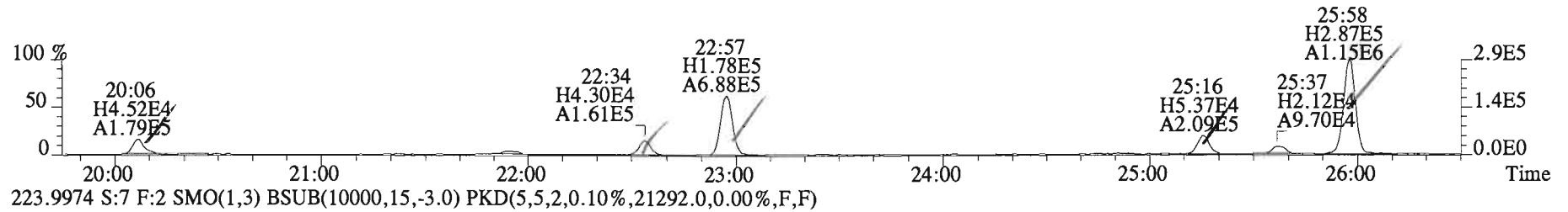
180.9880 S:7



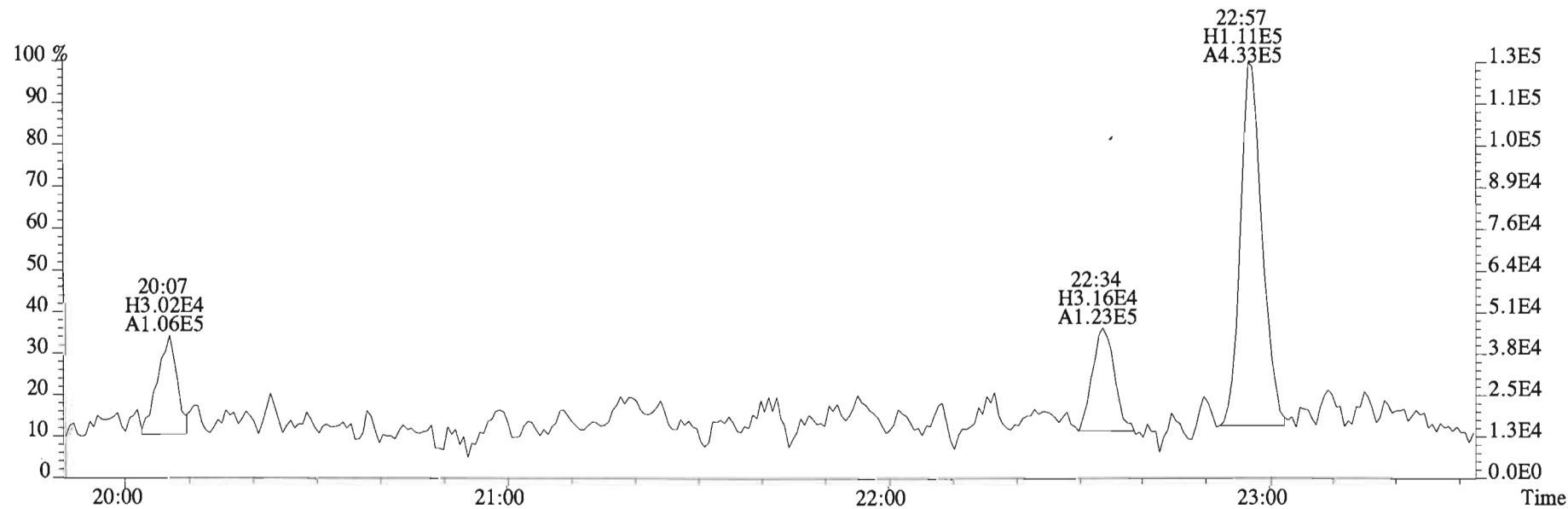
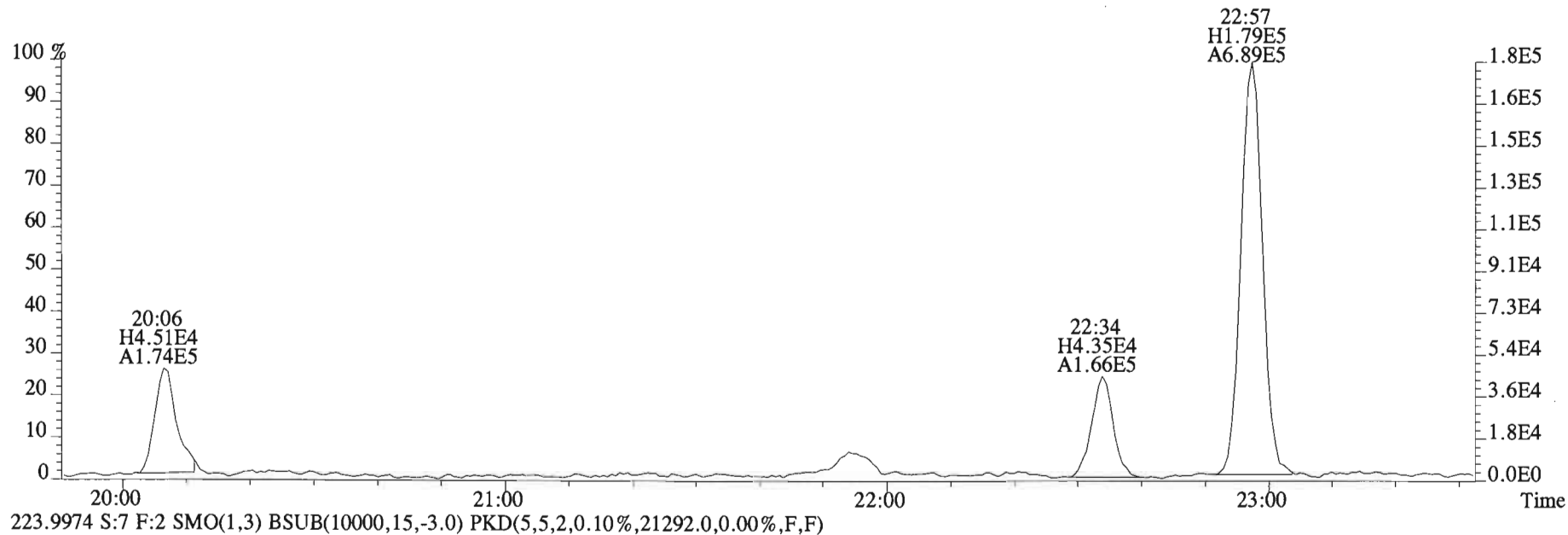
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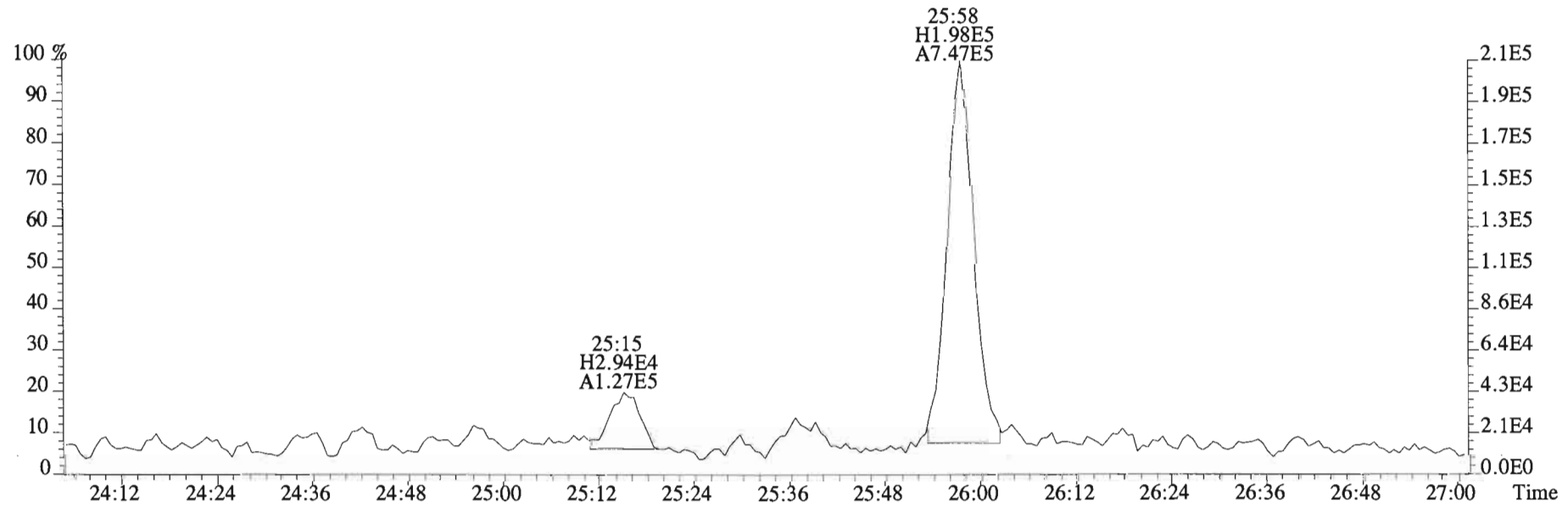
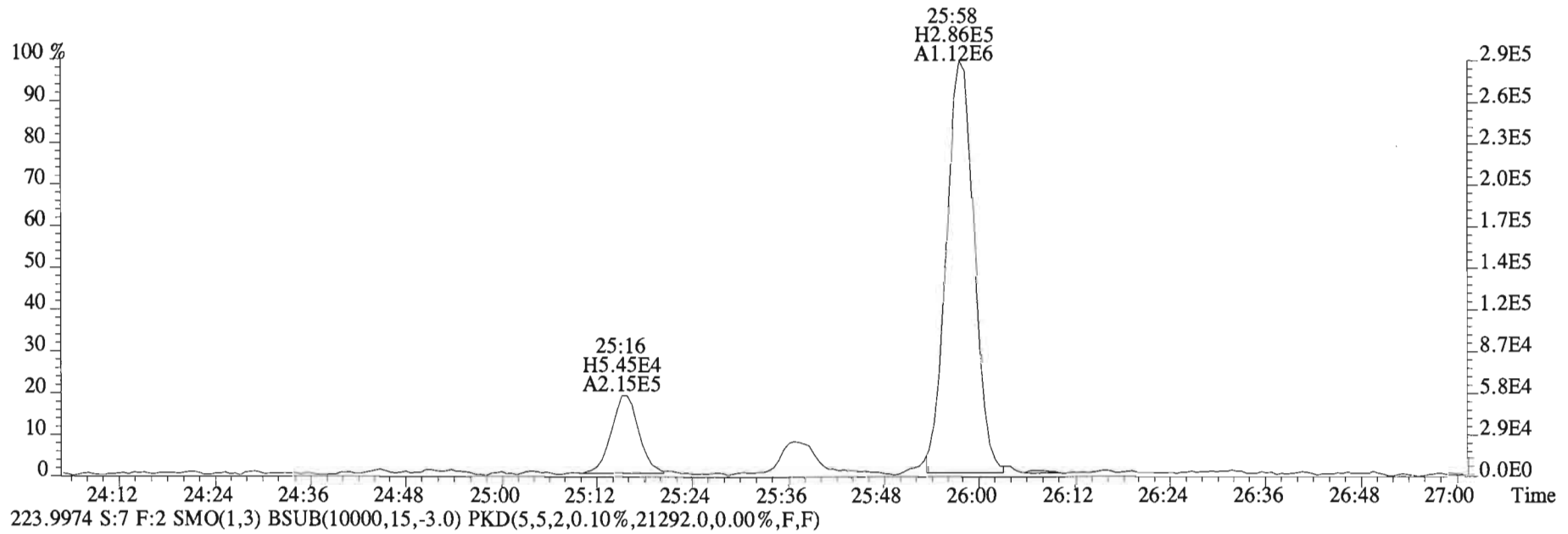
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 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
 222.0003 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3208.0,0.00%,F,F)



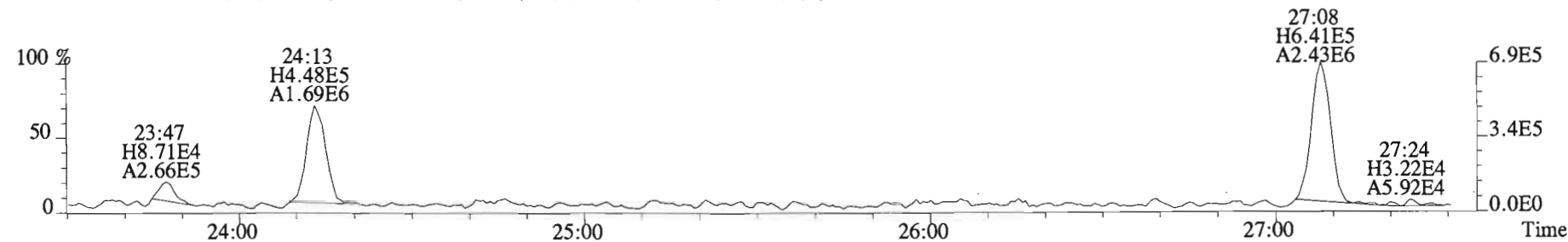
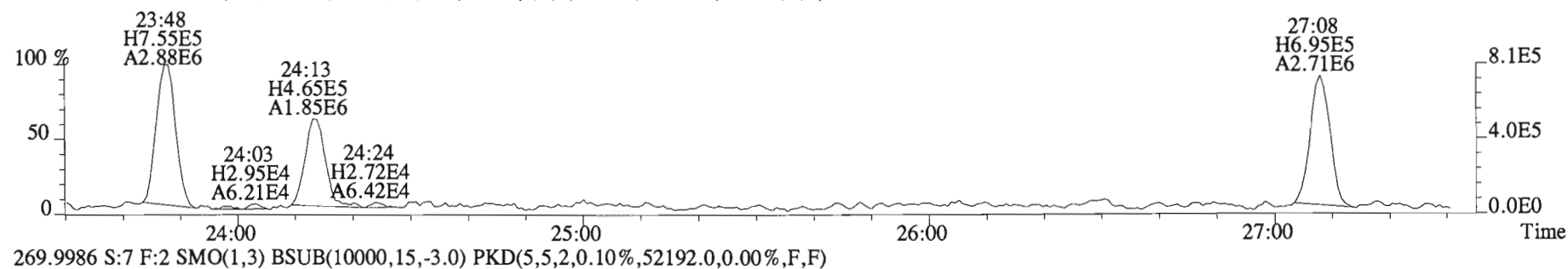
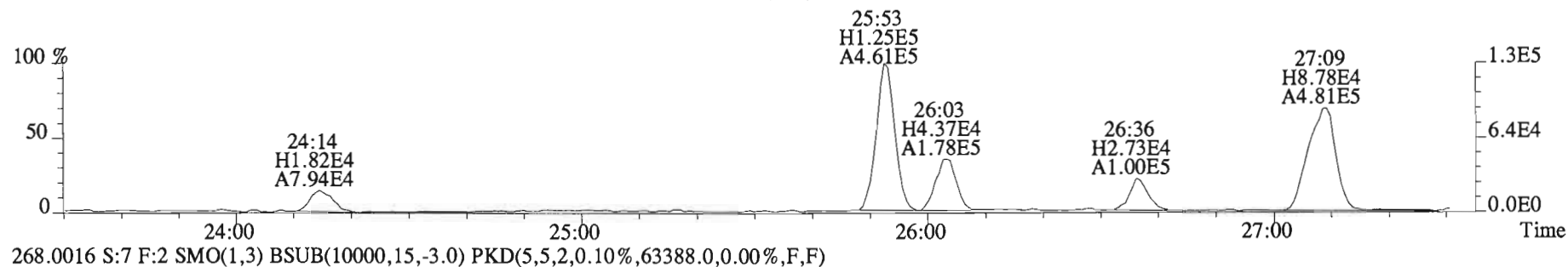
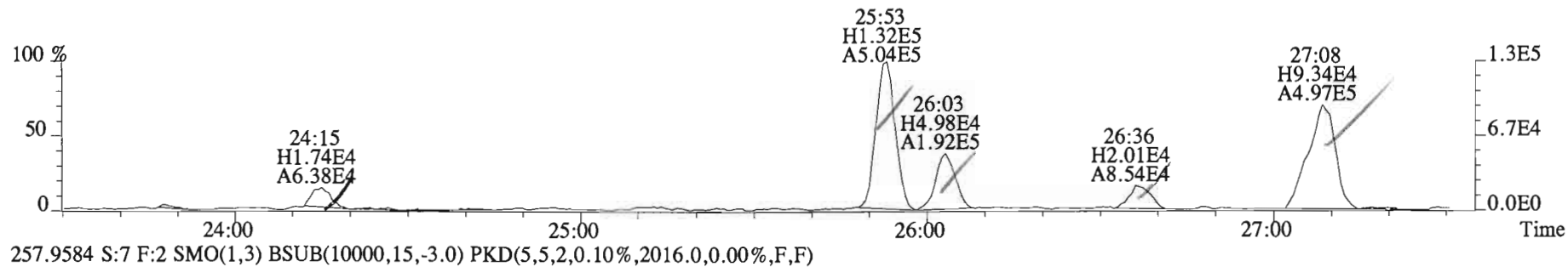
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222.0003 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3208.0,0.00%,F,F)



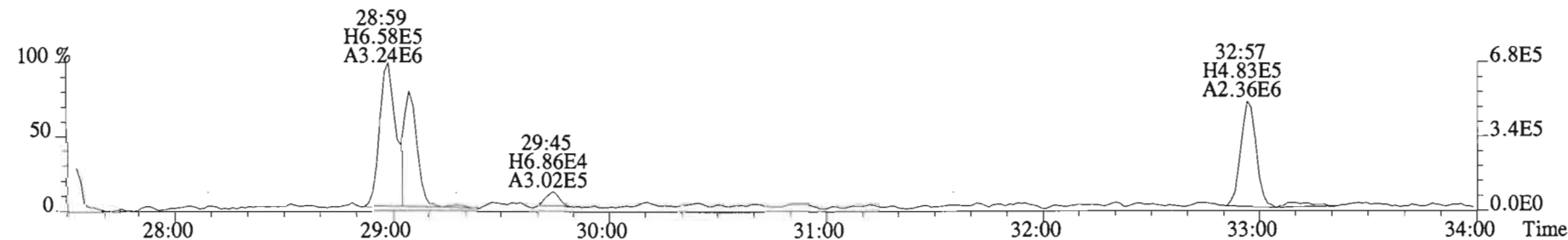
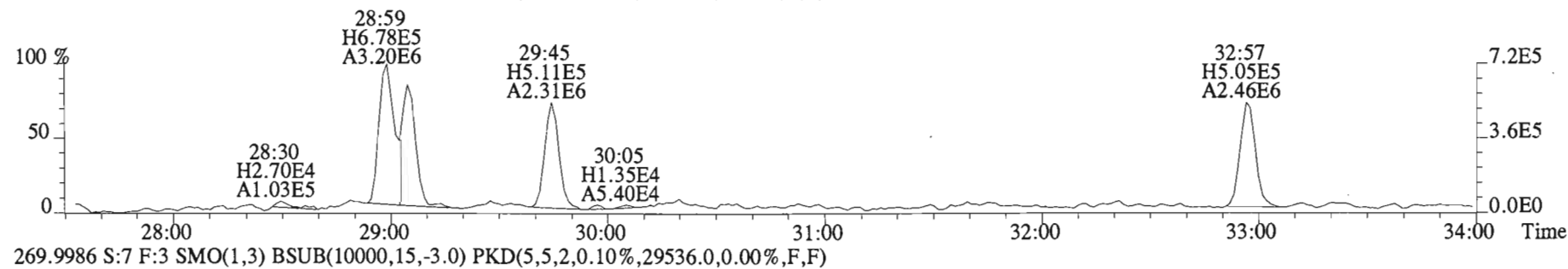
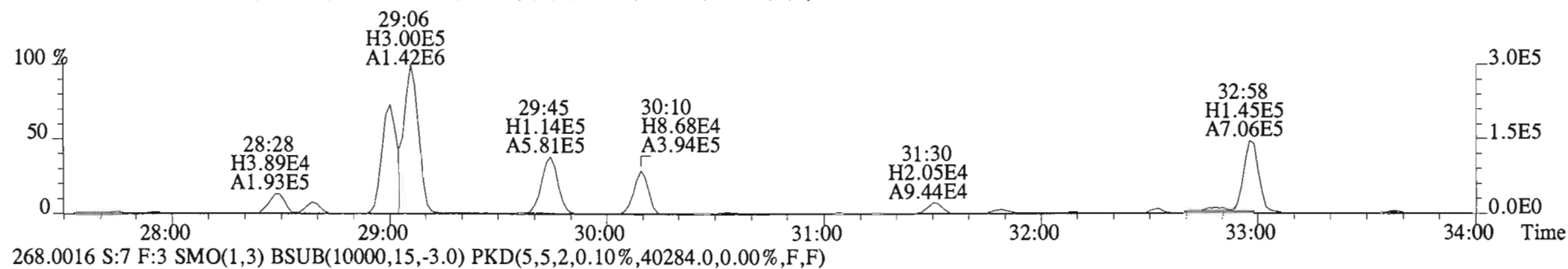
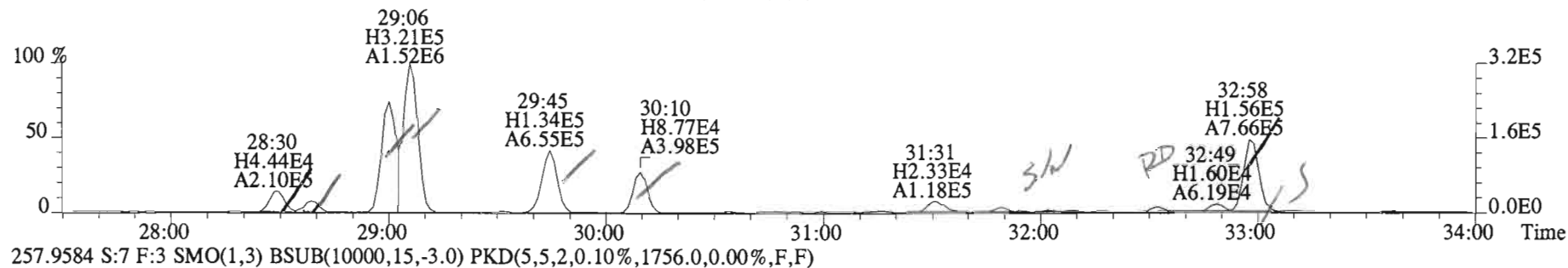
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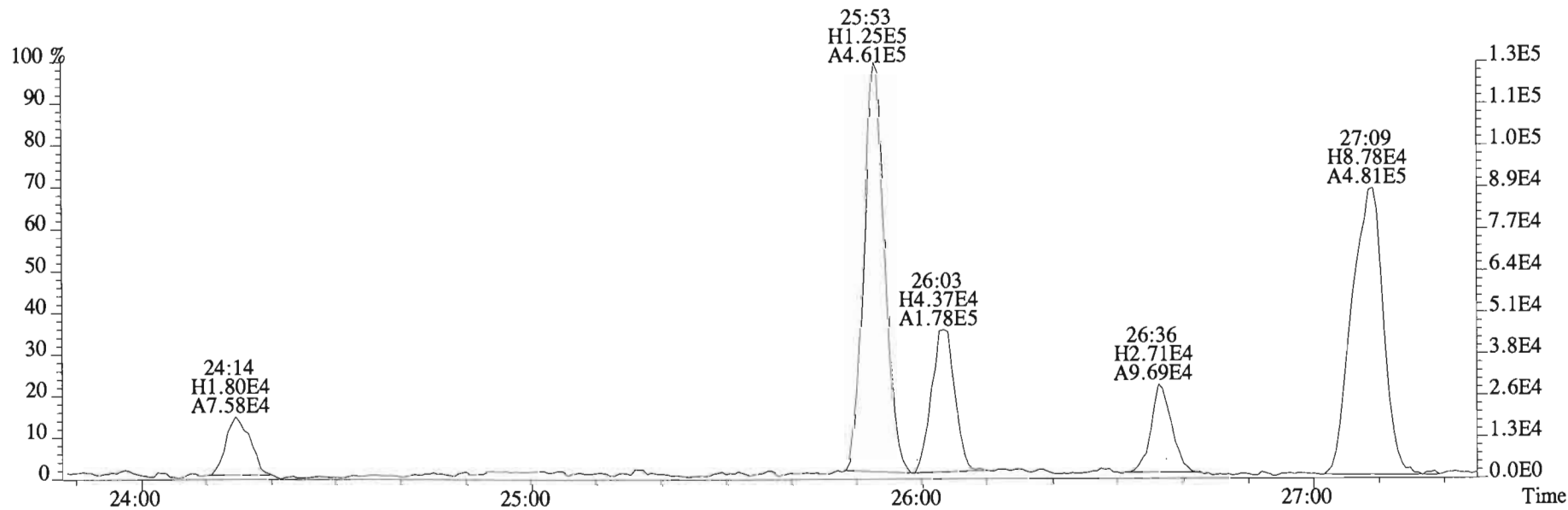
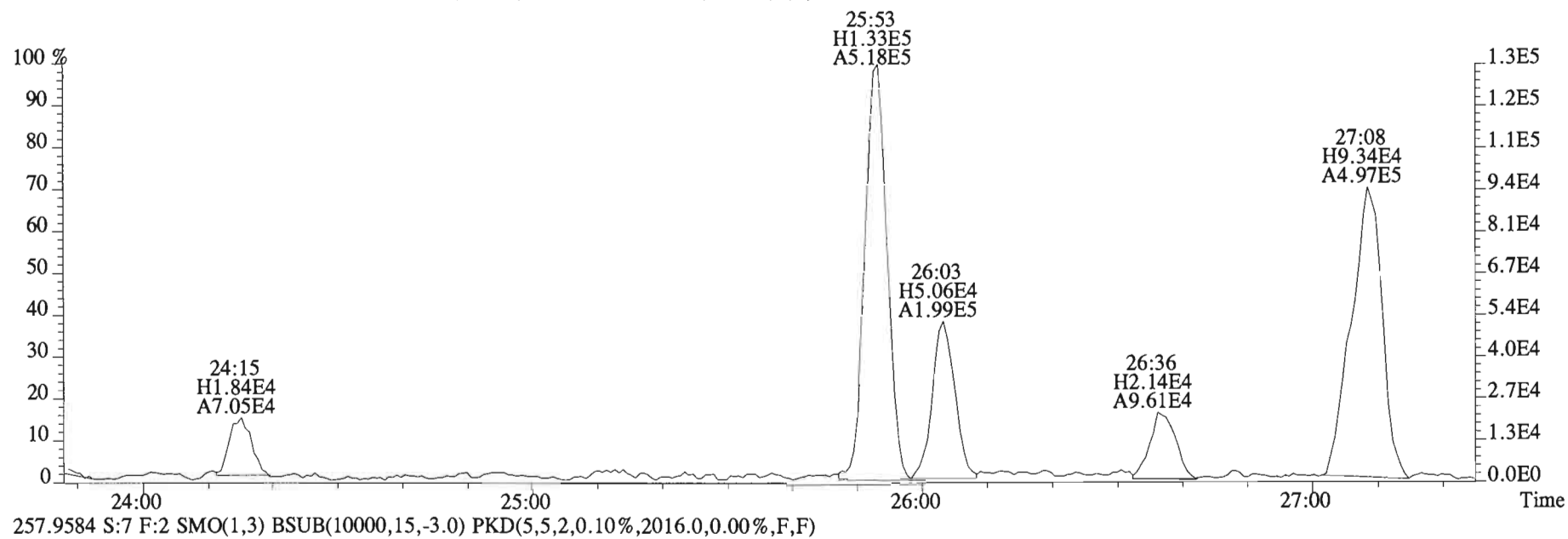
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 255.9613 S:7 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2820.0,0.00%,F,F)



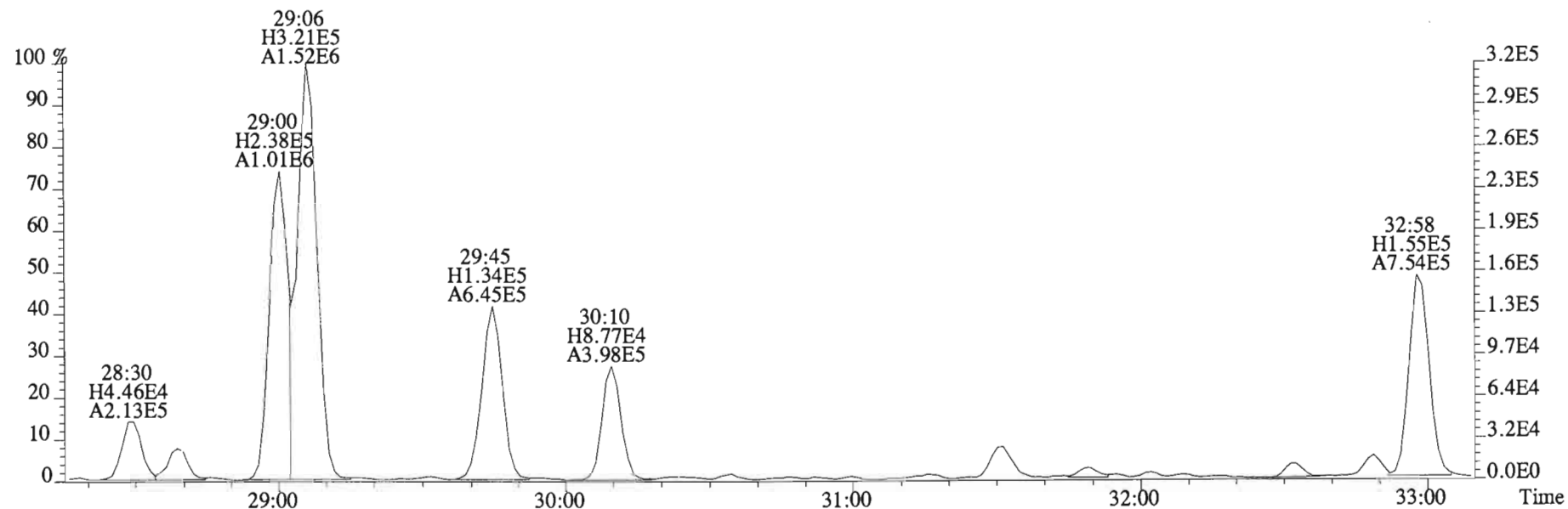
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 255.9613 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2516.0,0.00%,F,F)



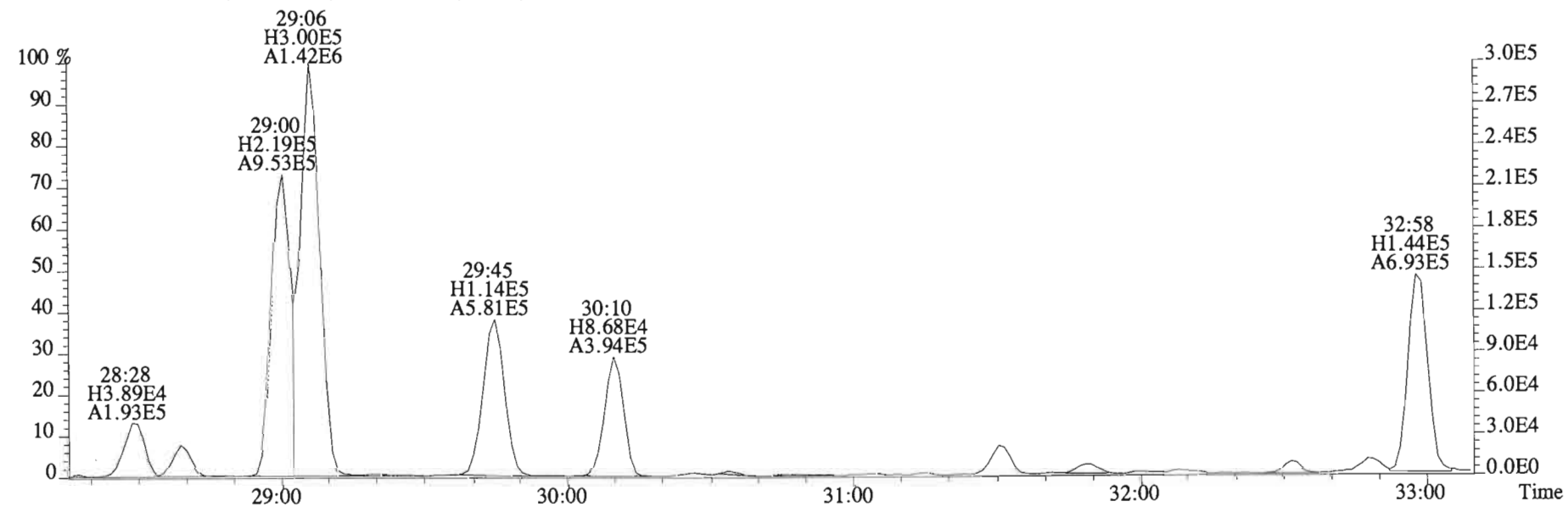
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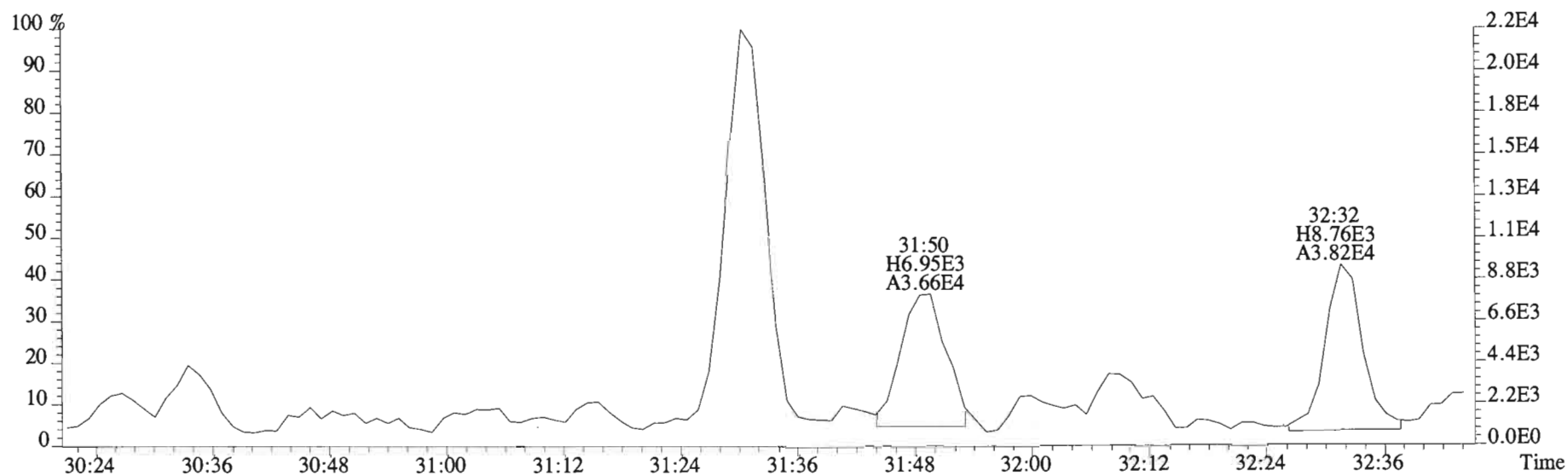
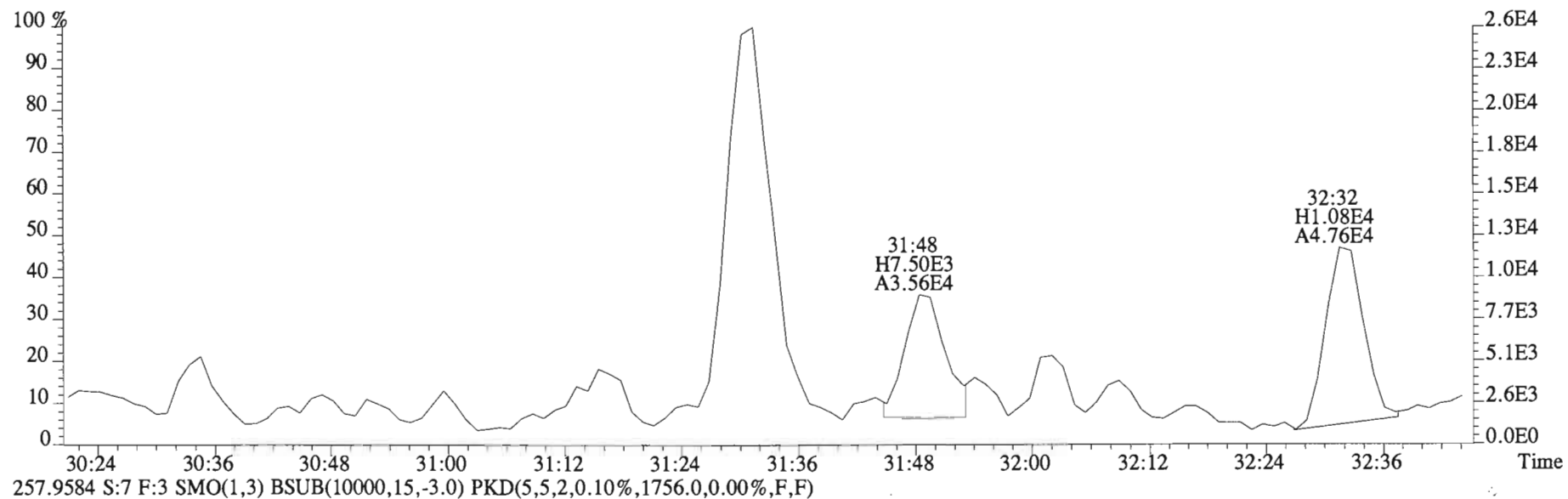
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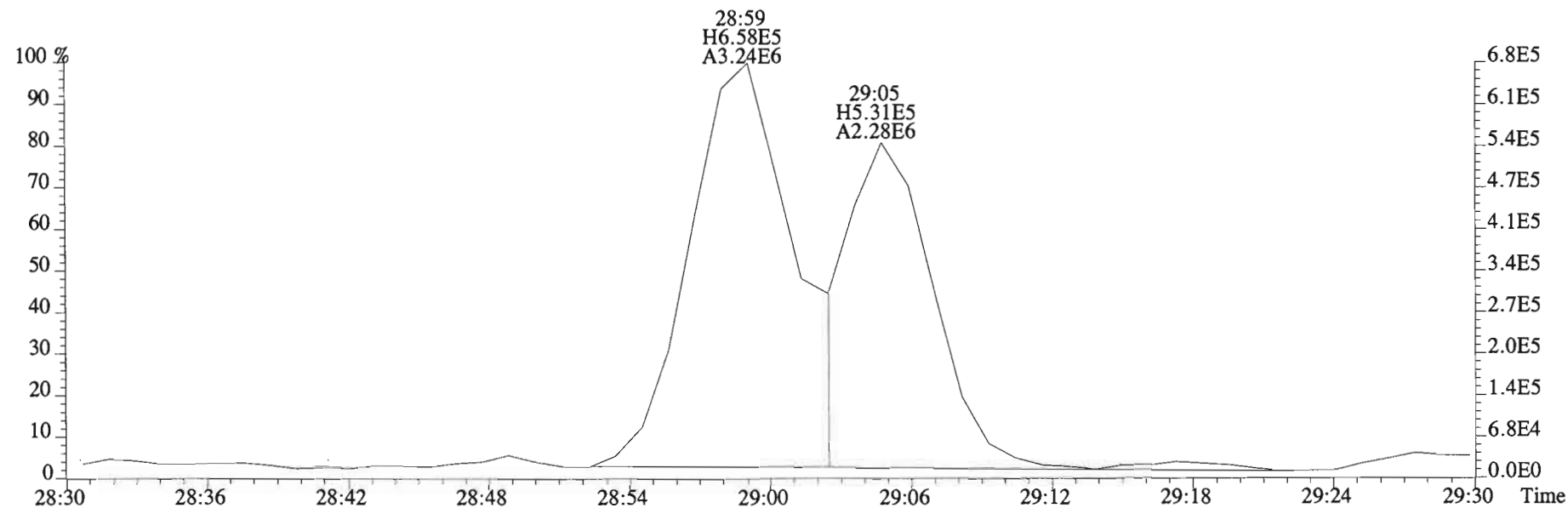
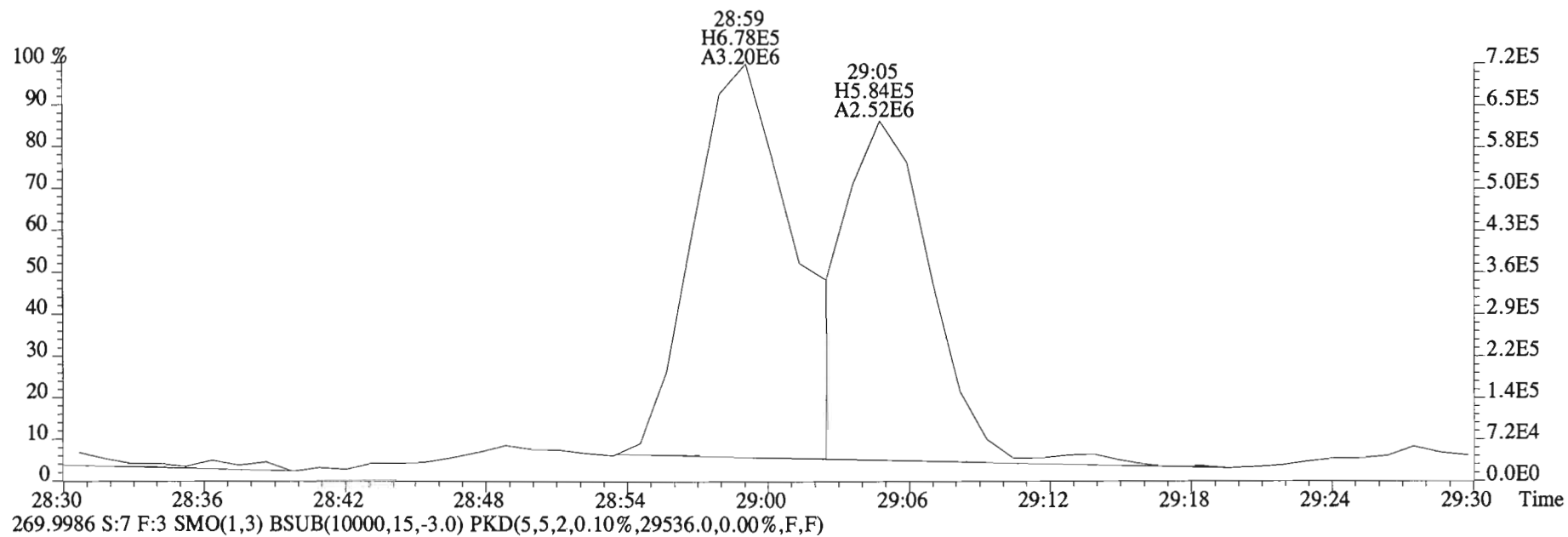
257.9584 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1756.0,0.00%,F,F)



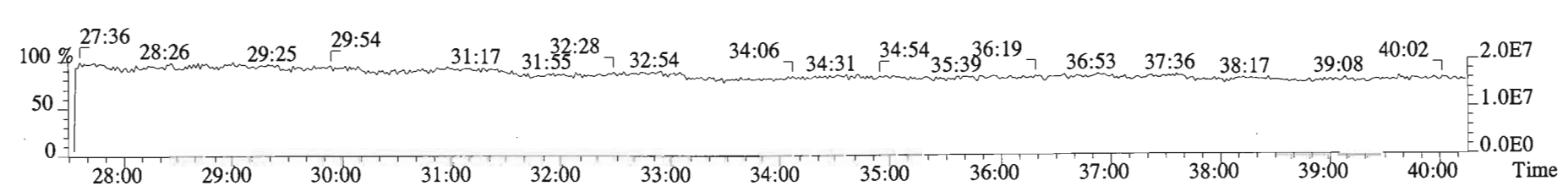
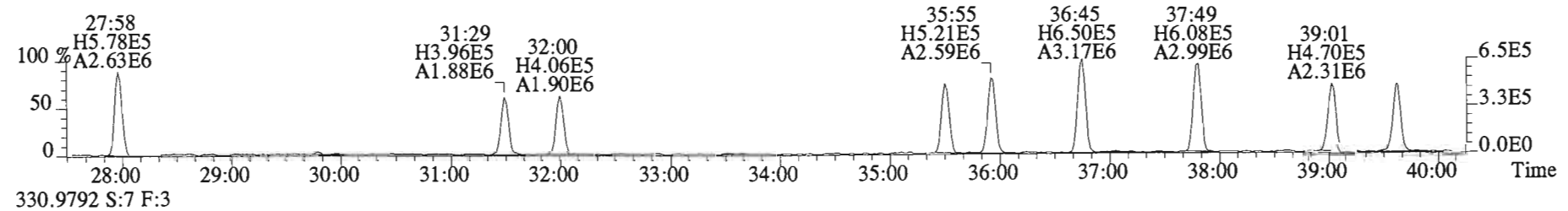
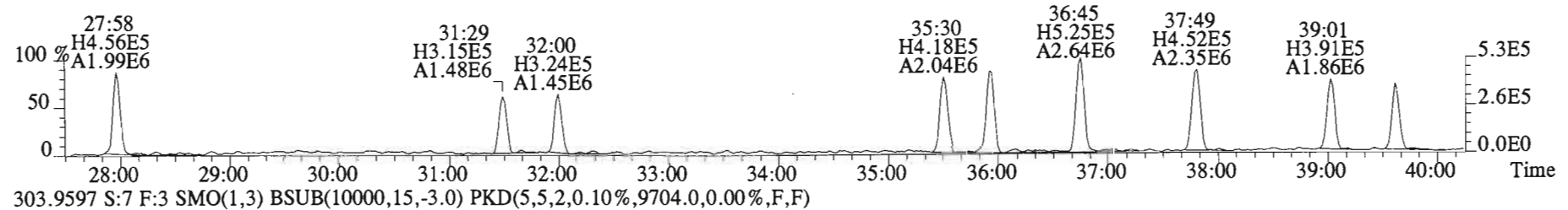
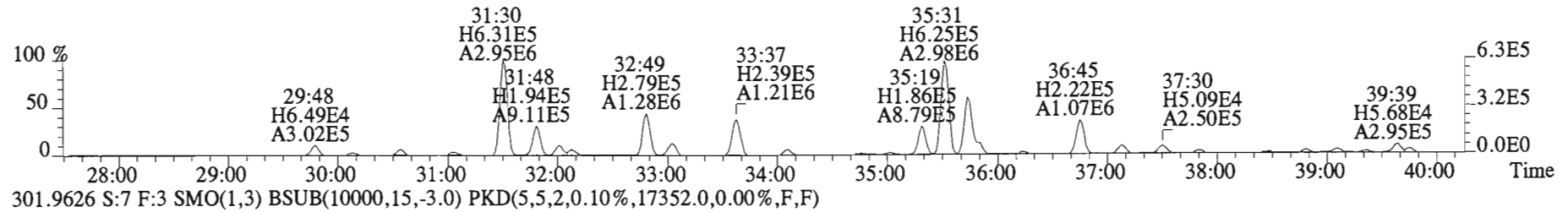
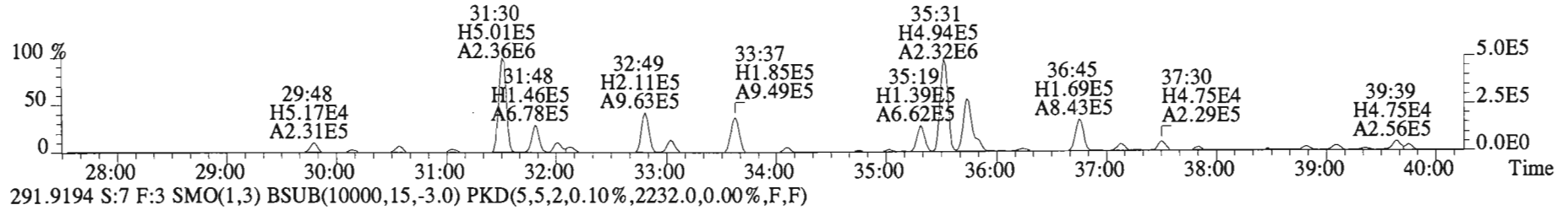
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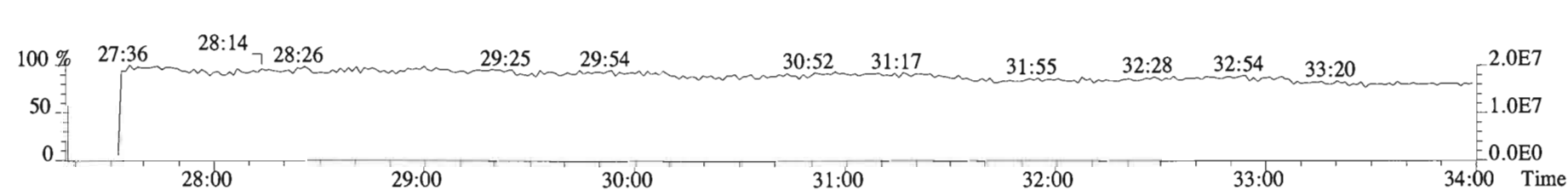
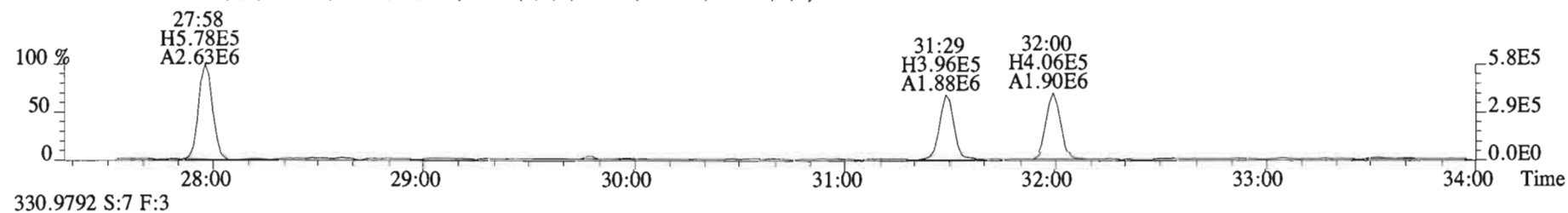
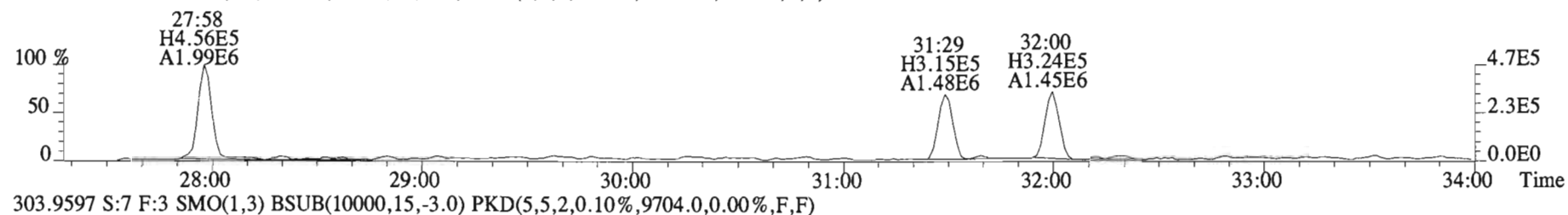
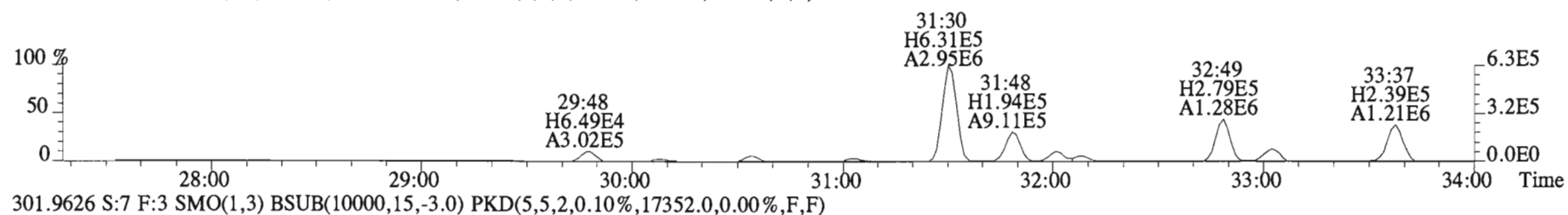
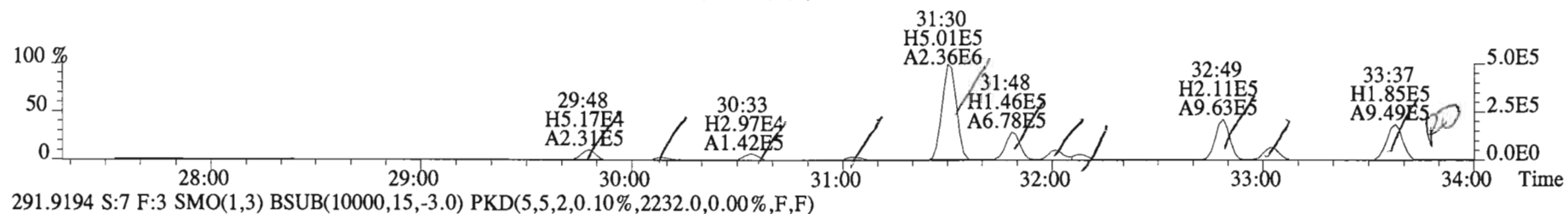
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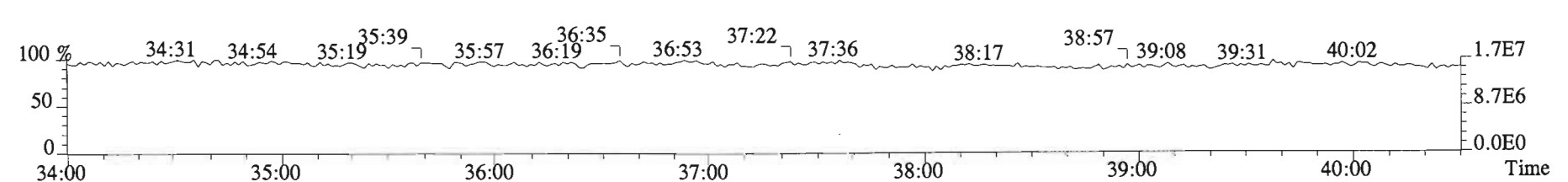
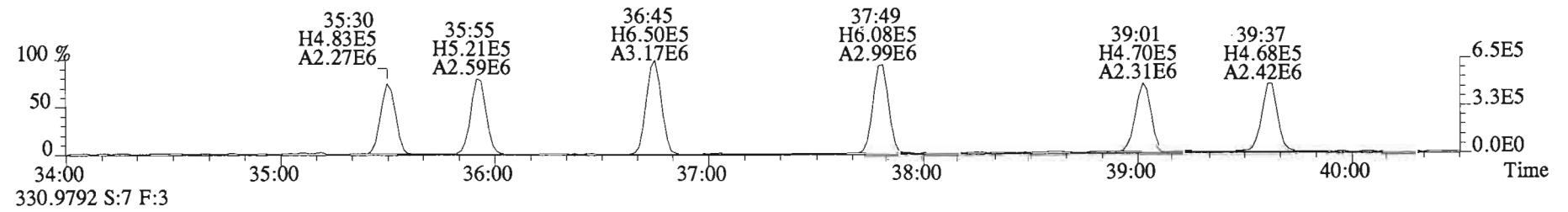
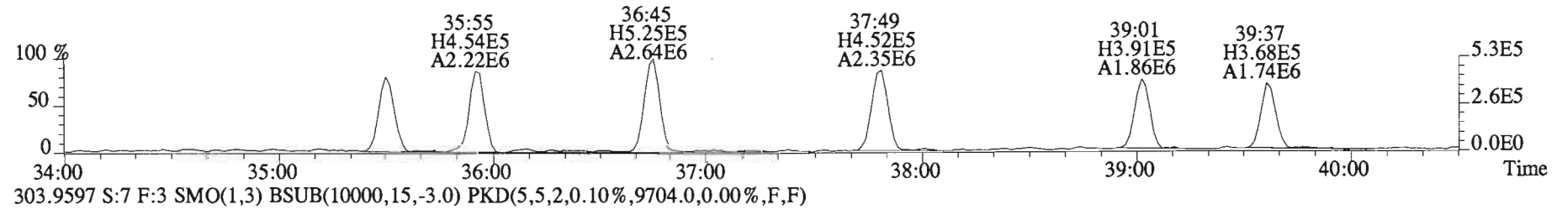
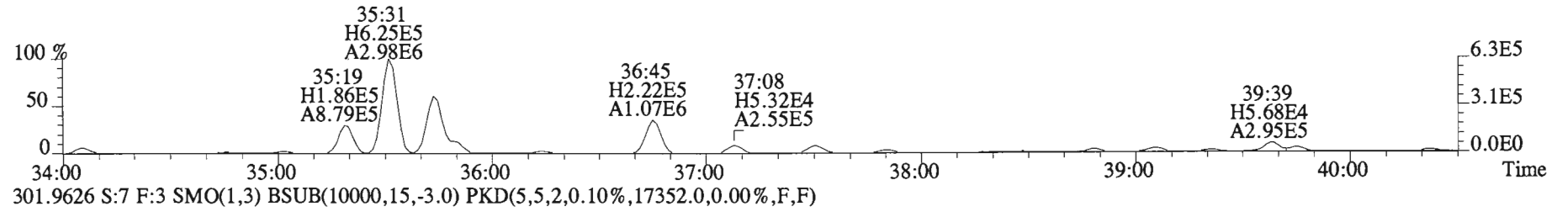
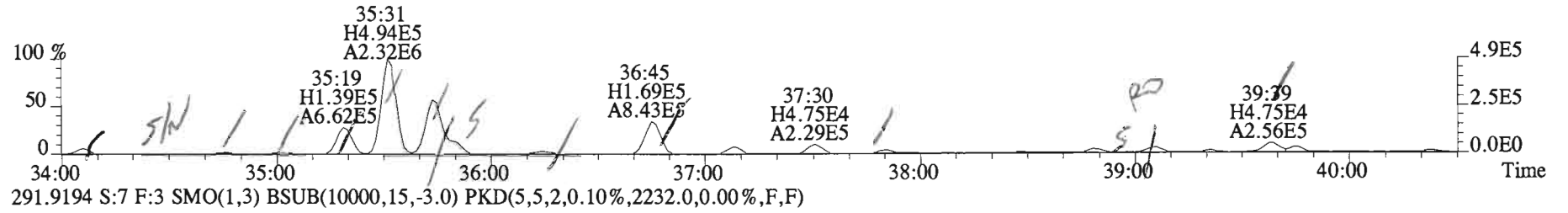
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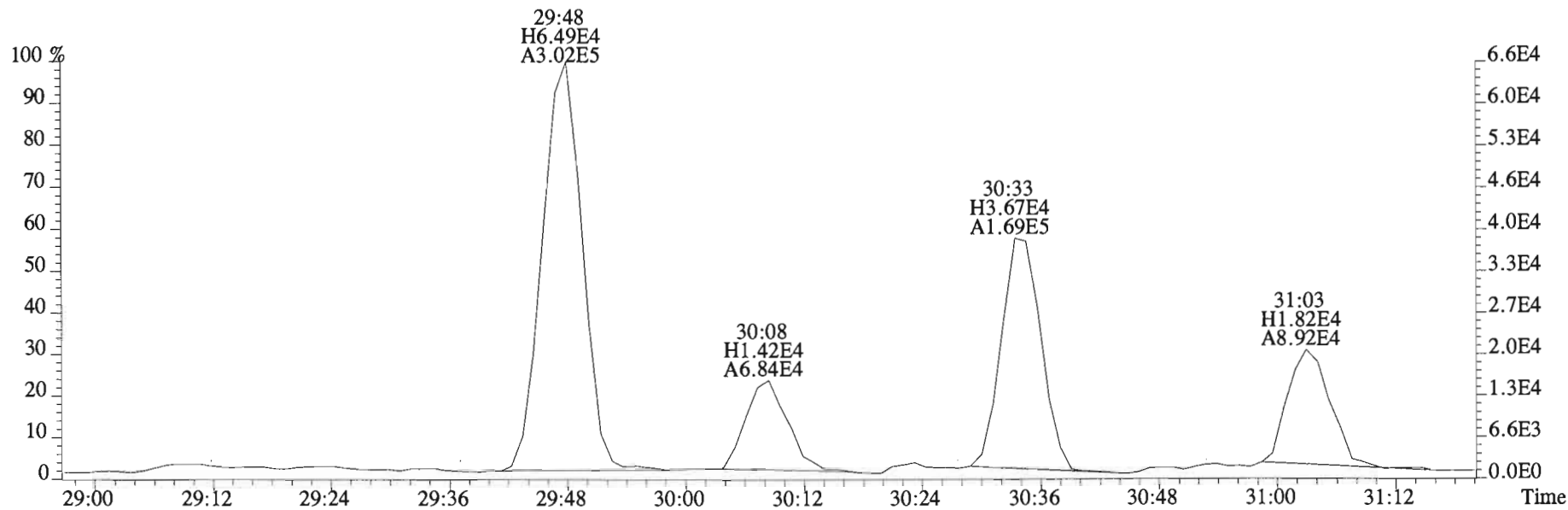
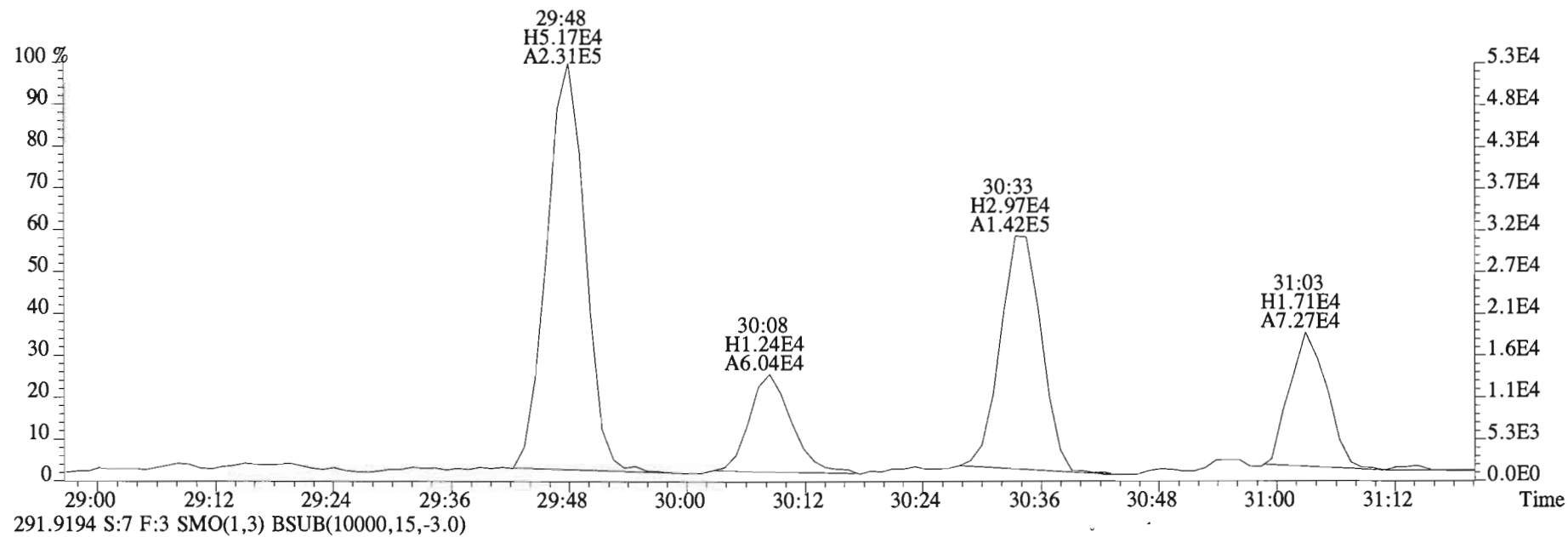
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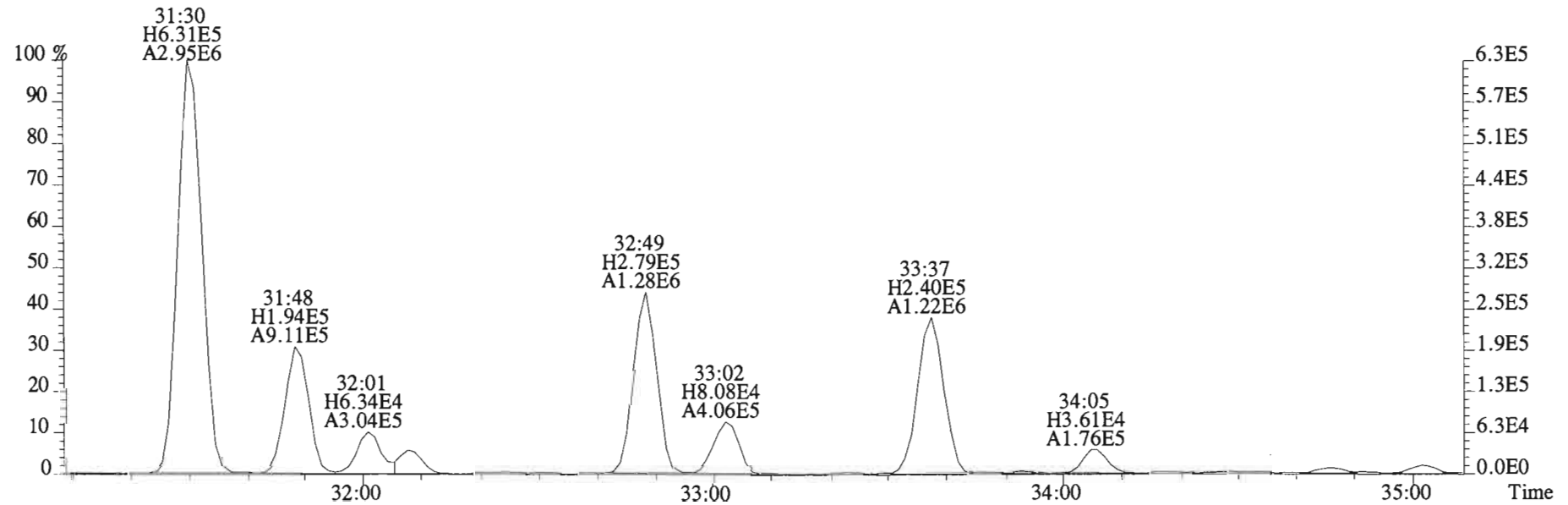
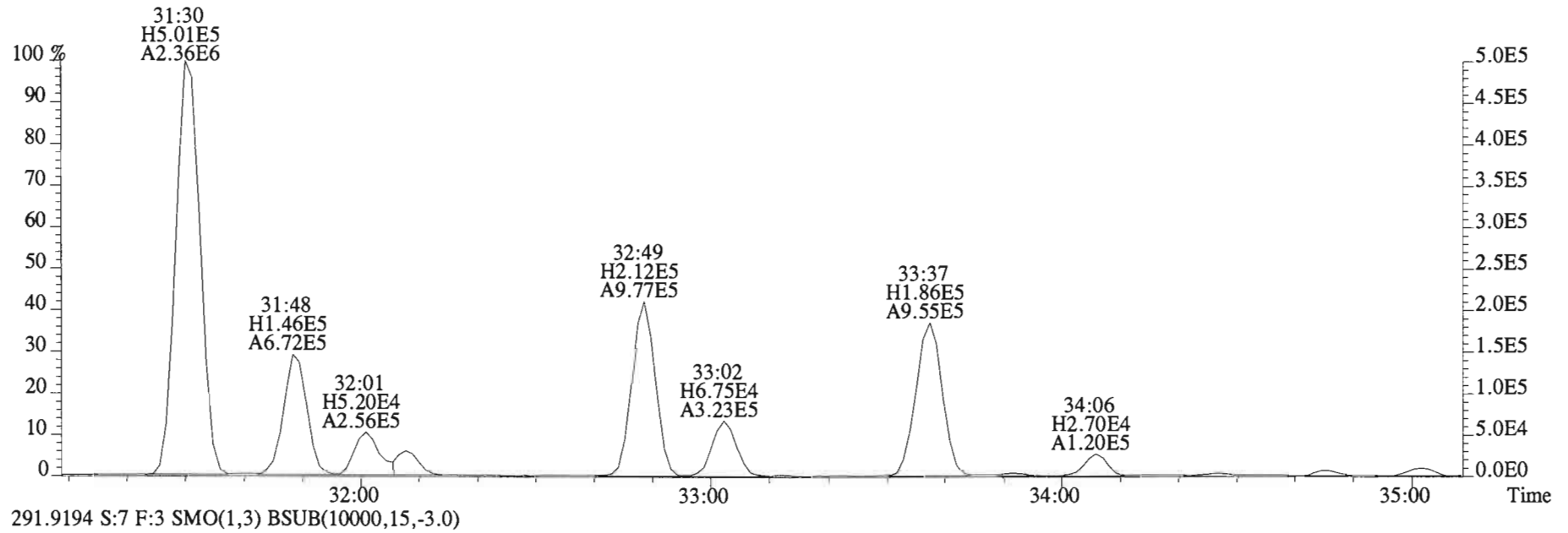
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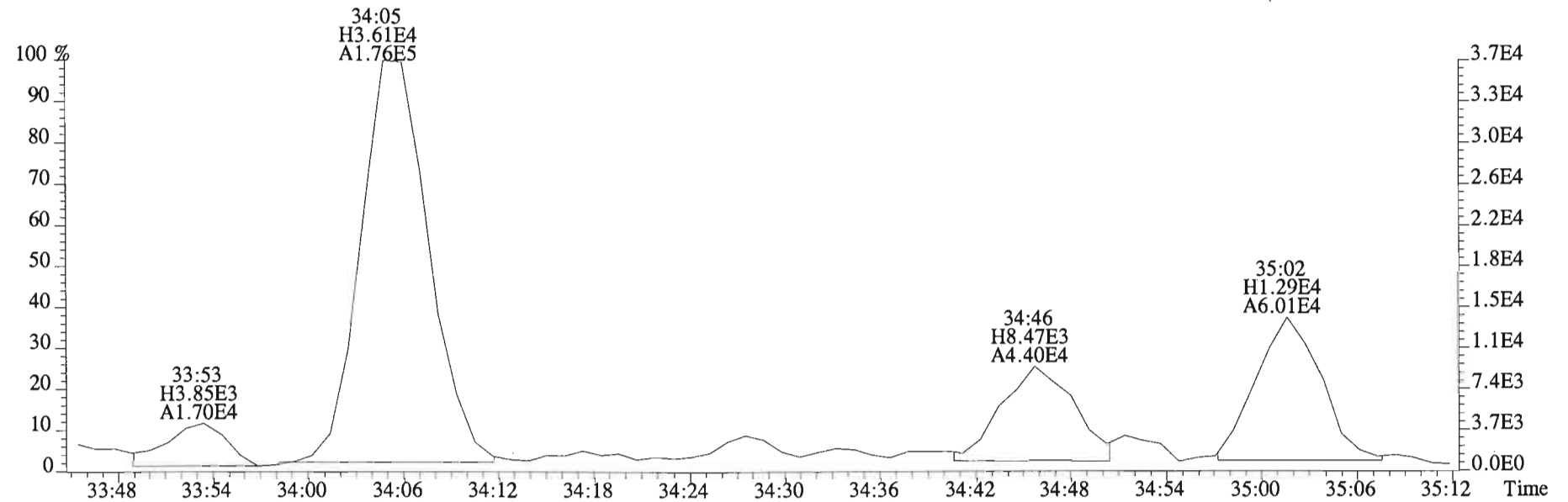
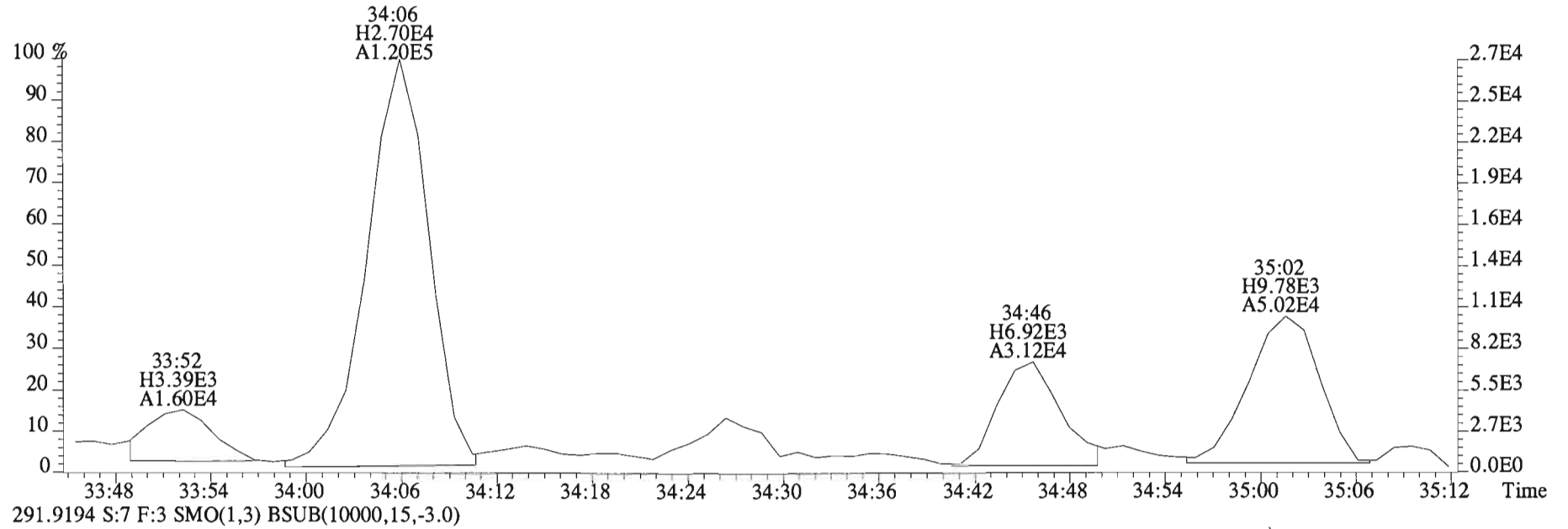
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289.9224 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



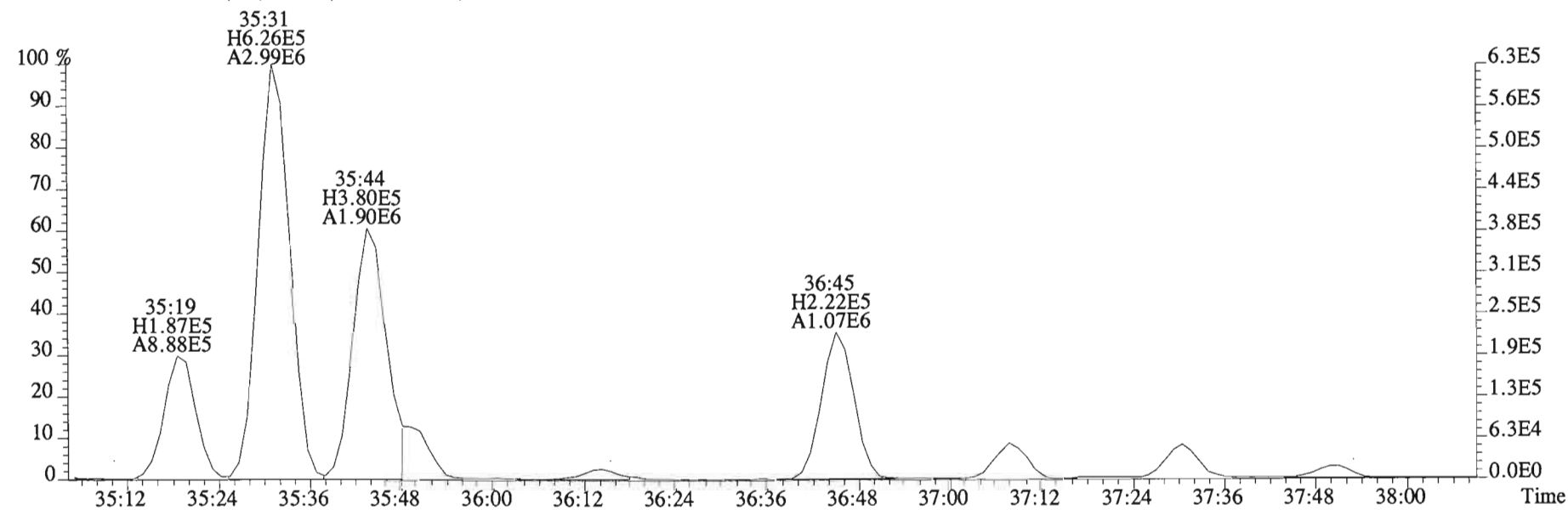
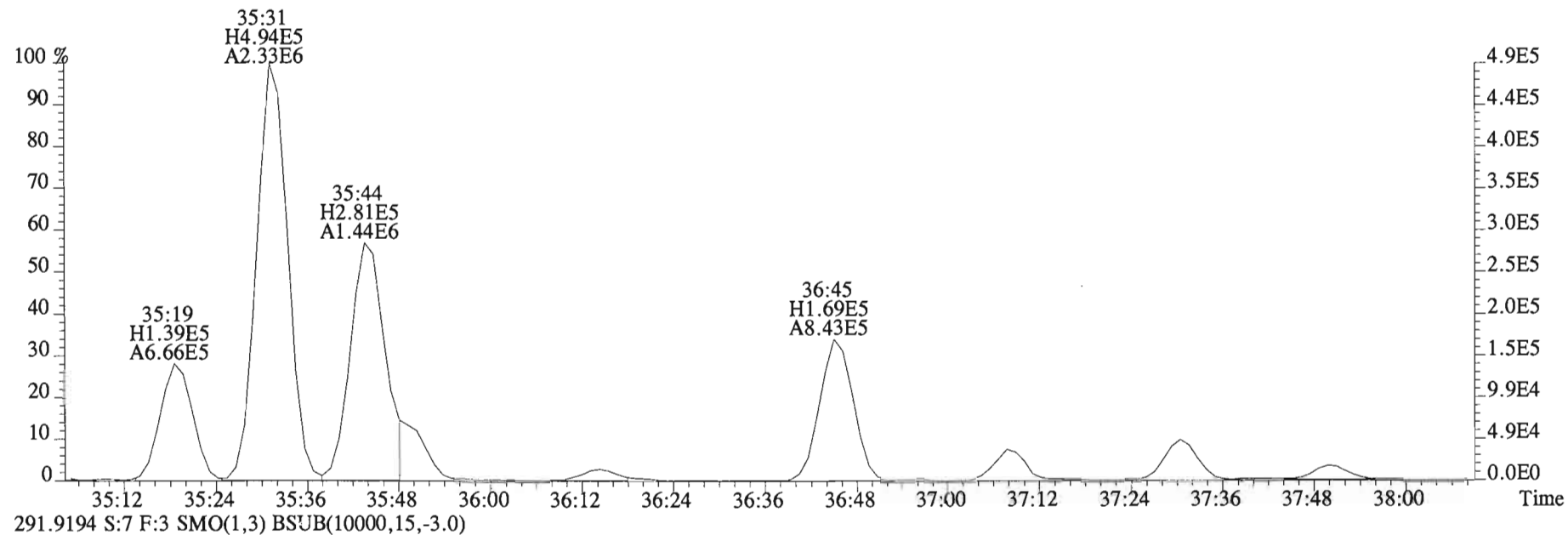
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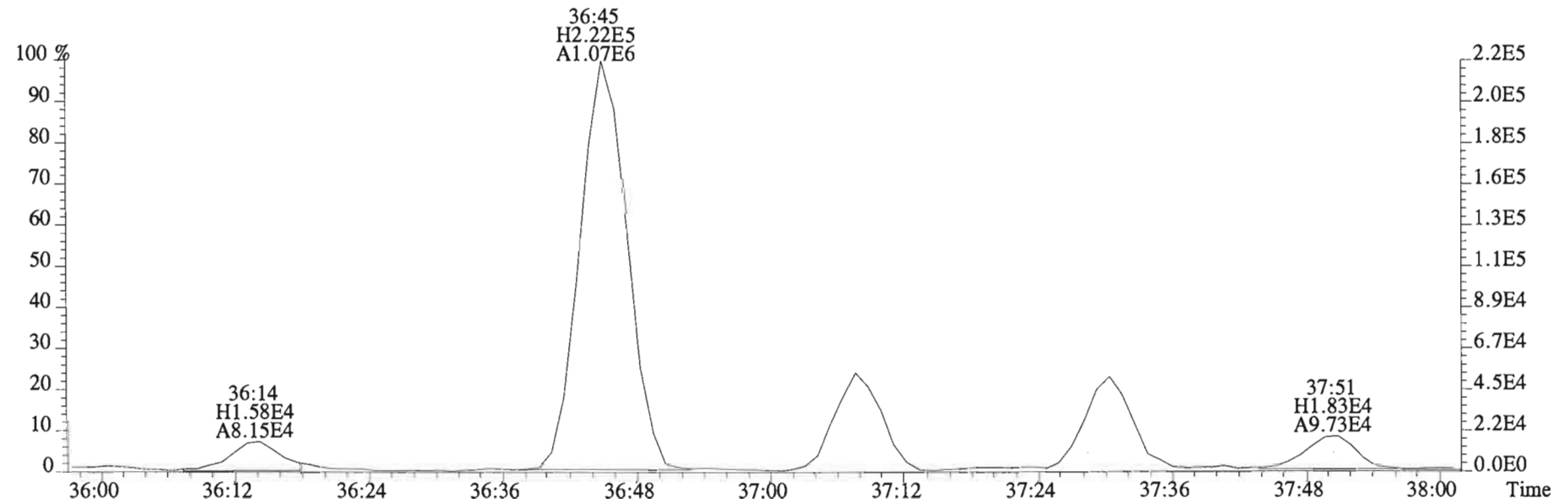
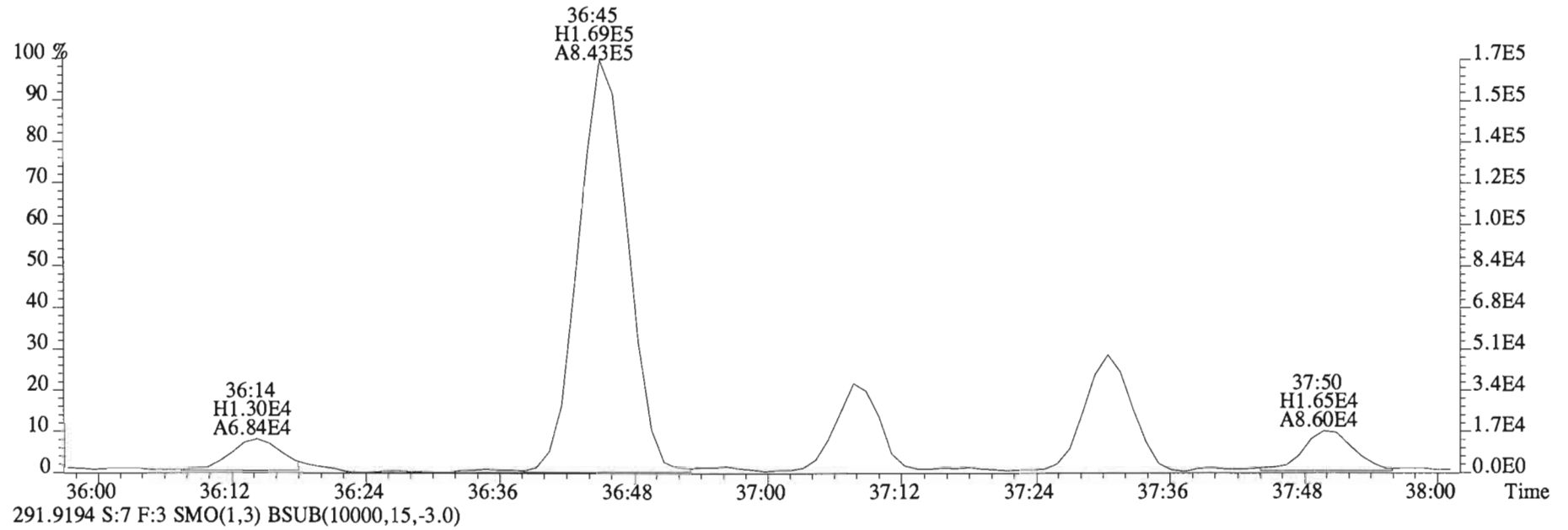
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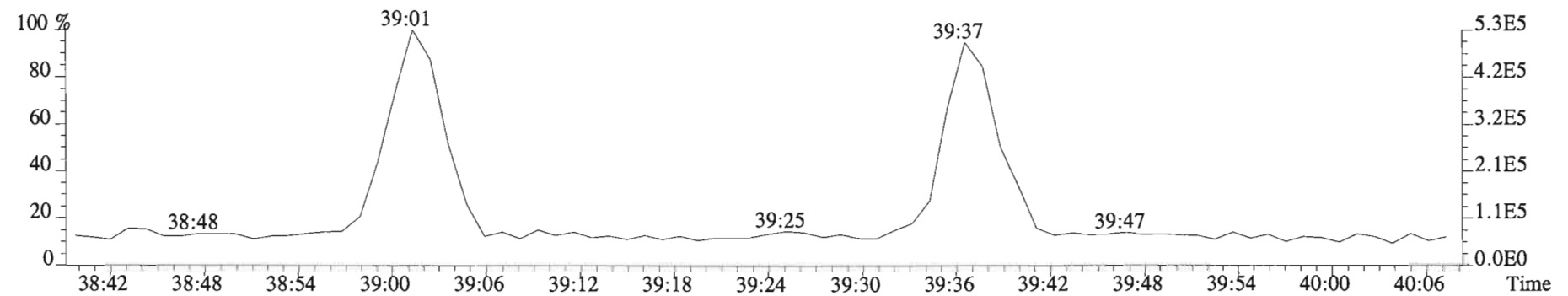
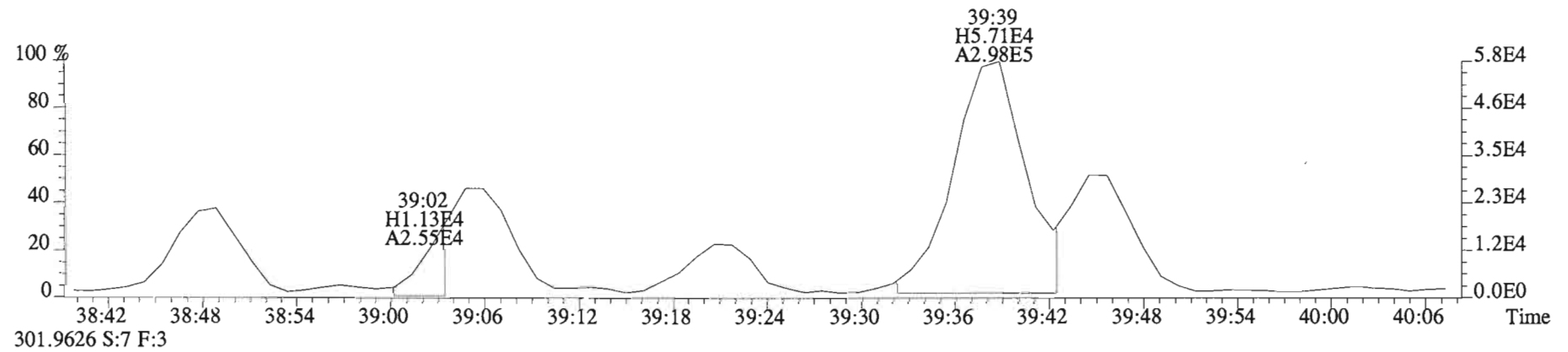
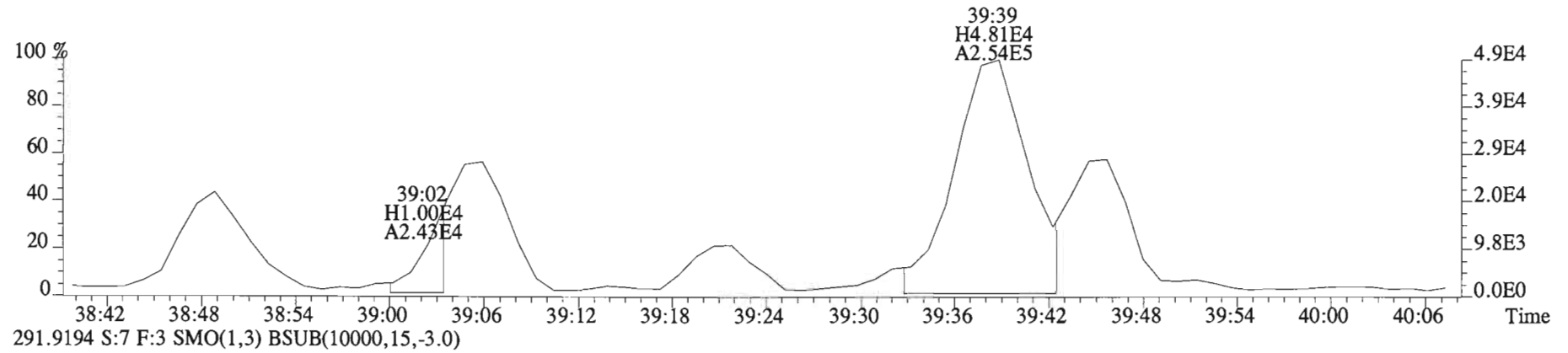
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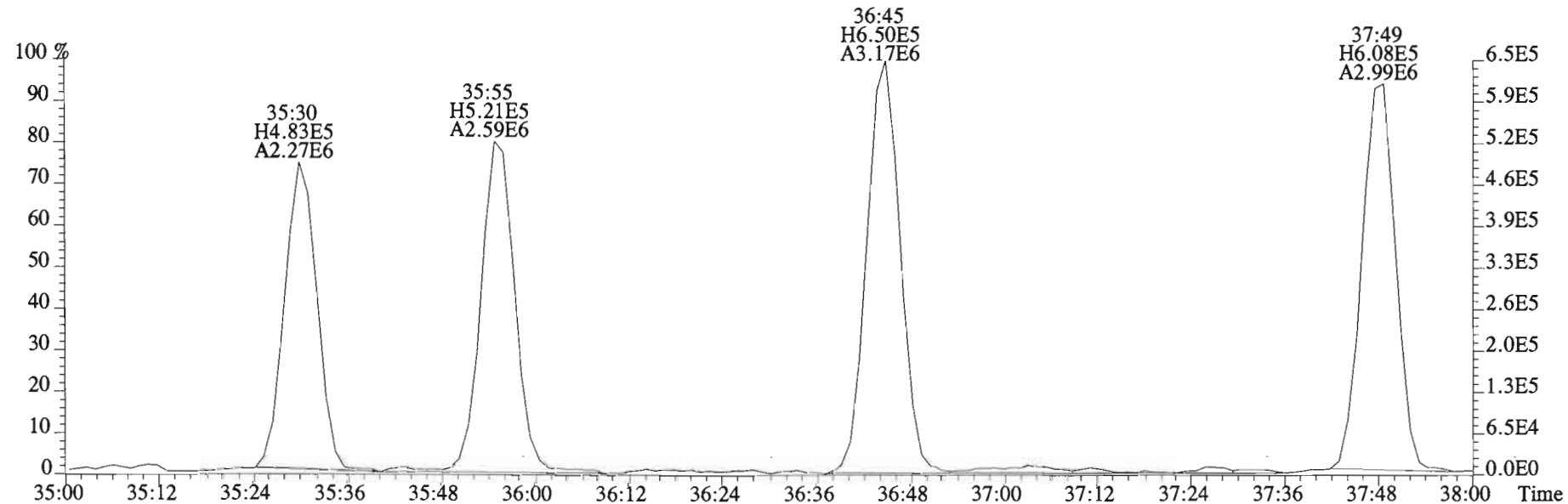
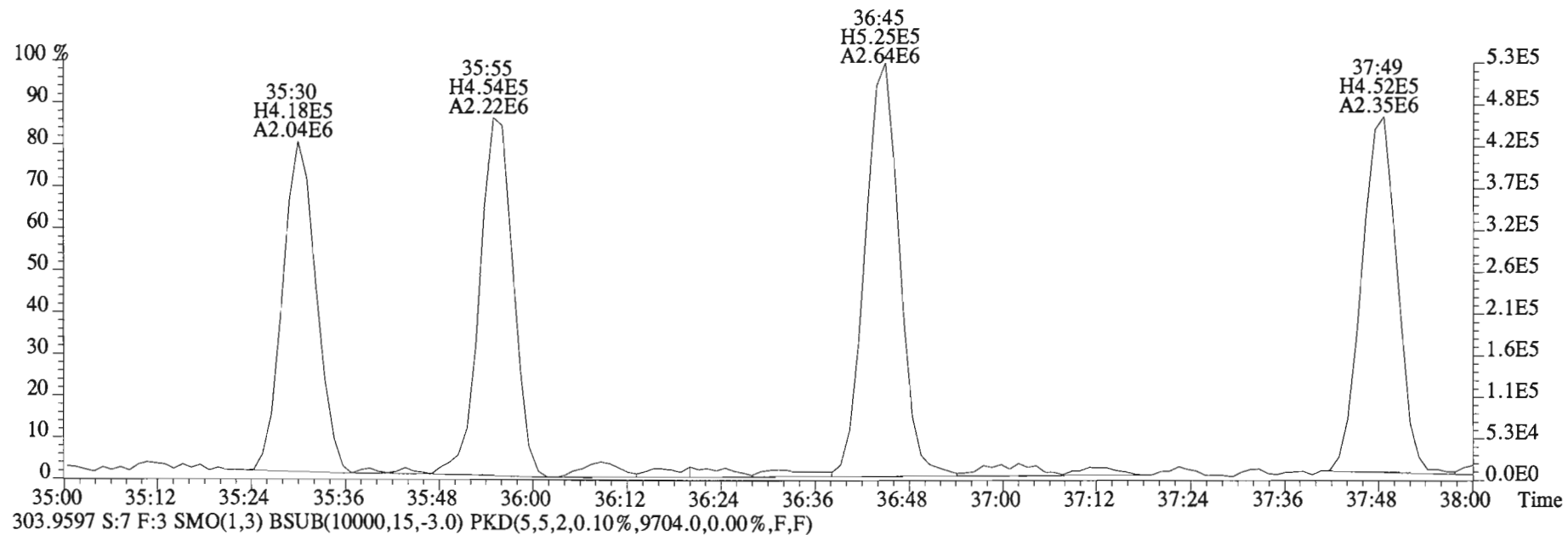
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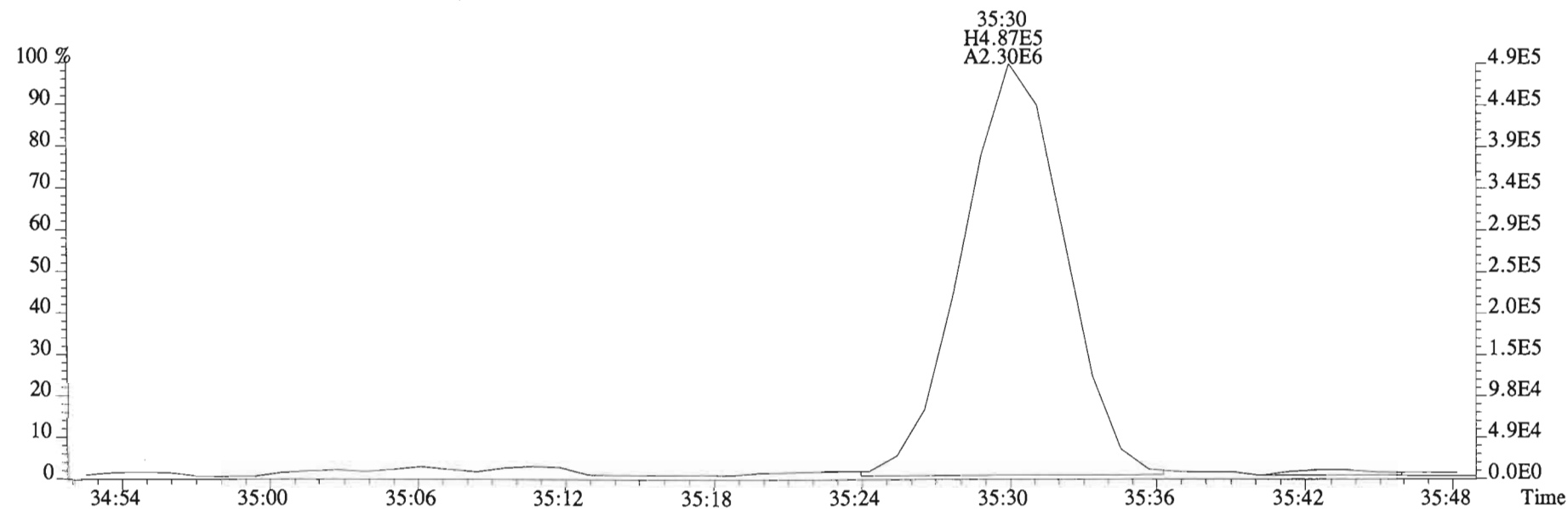
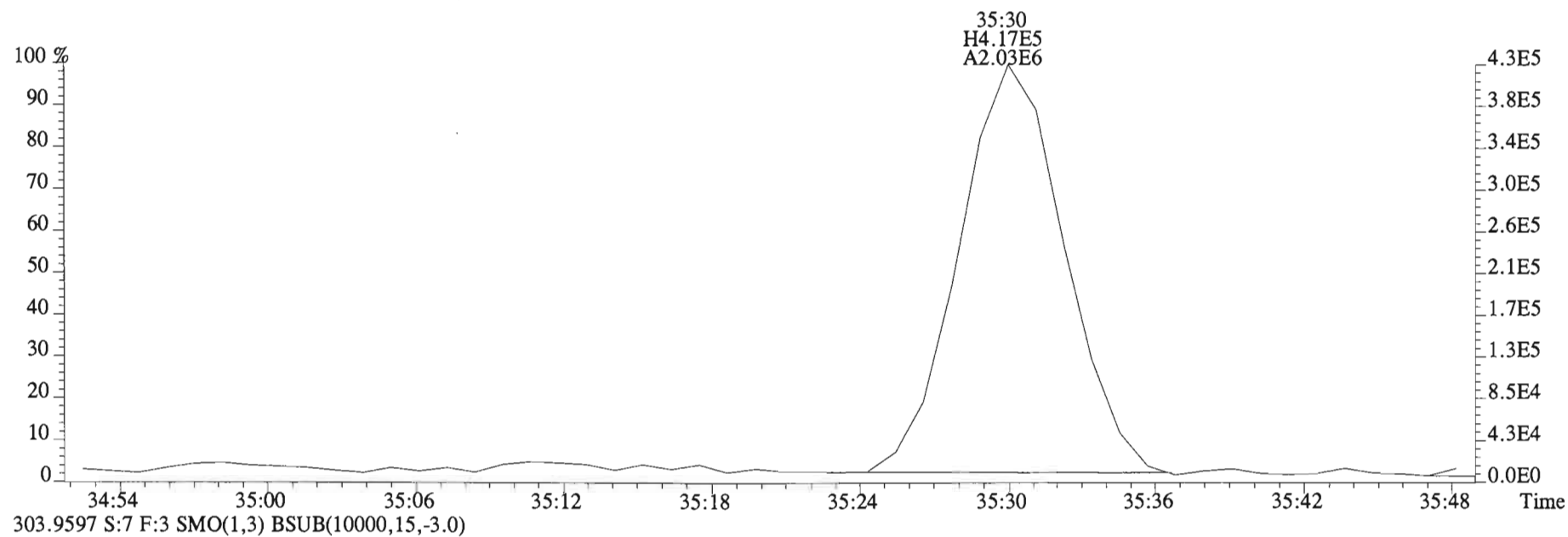
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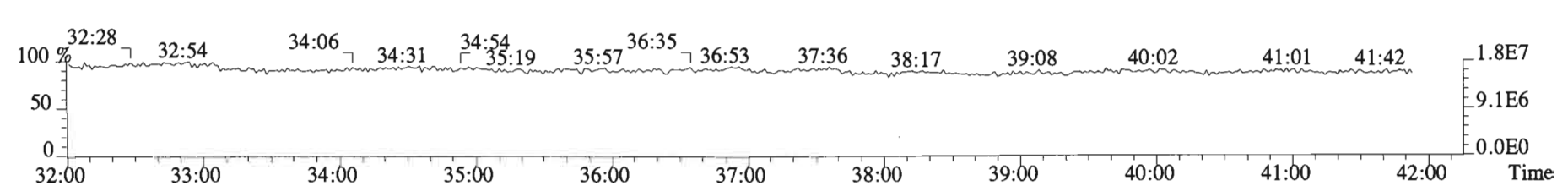
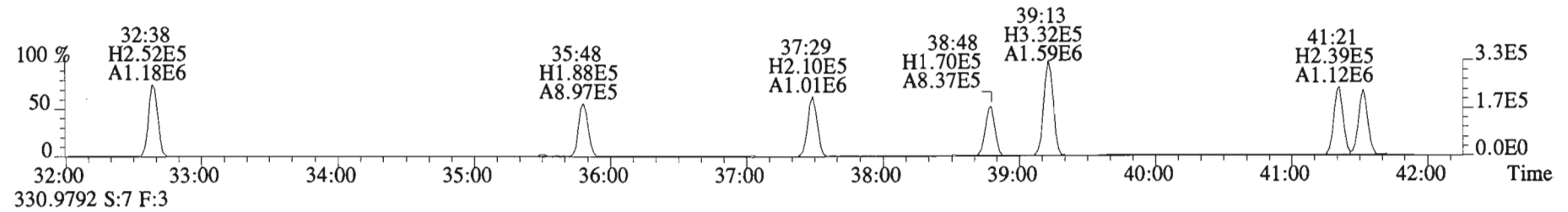
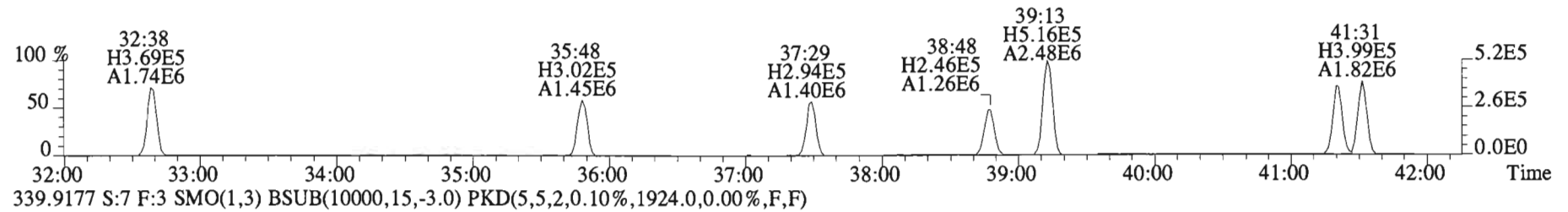
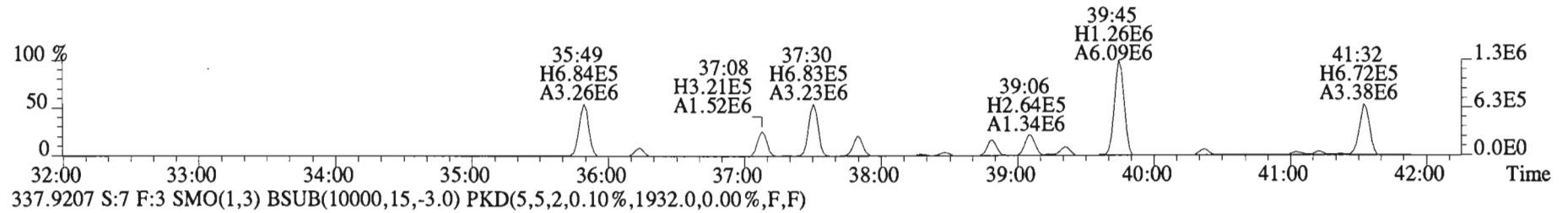
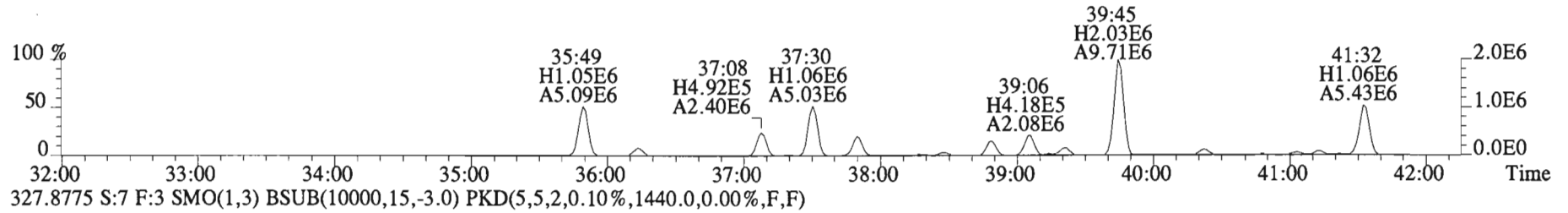
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301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,17352.0,0.00%,F,F)



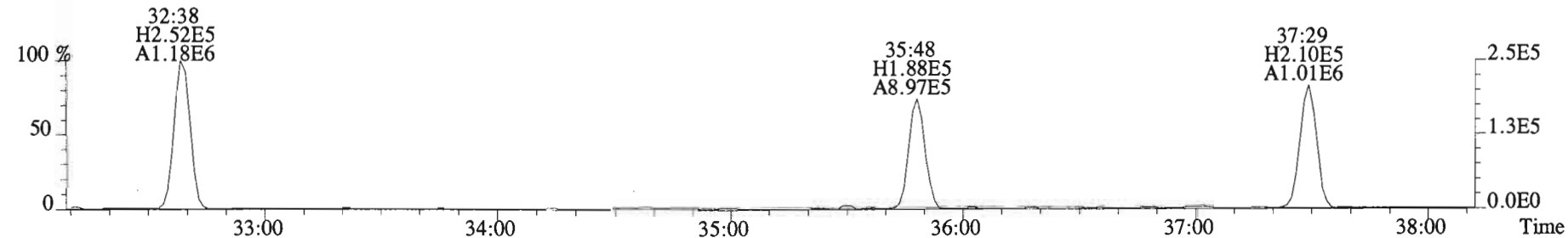
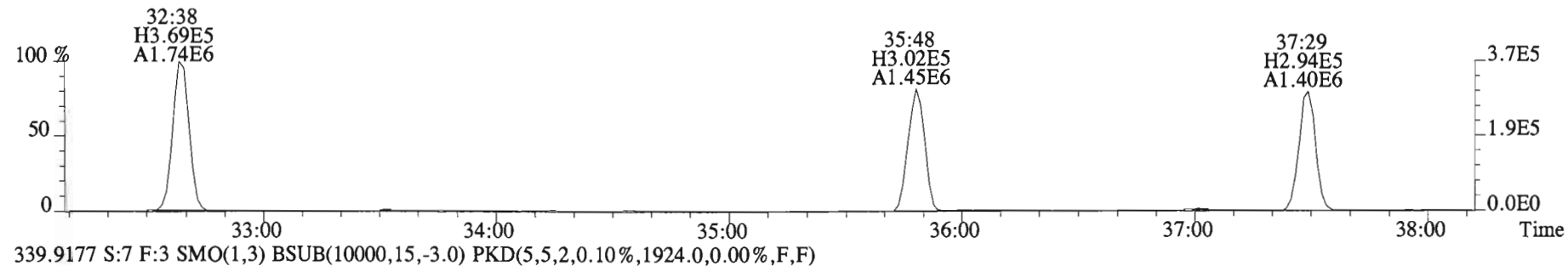
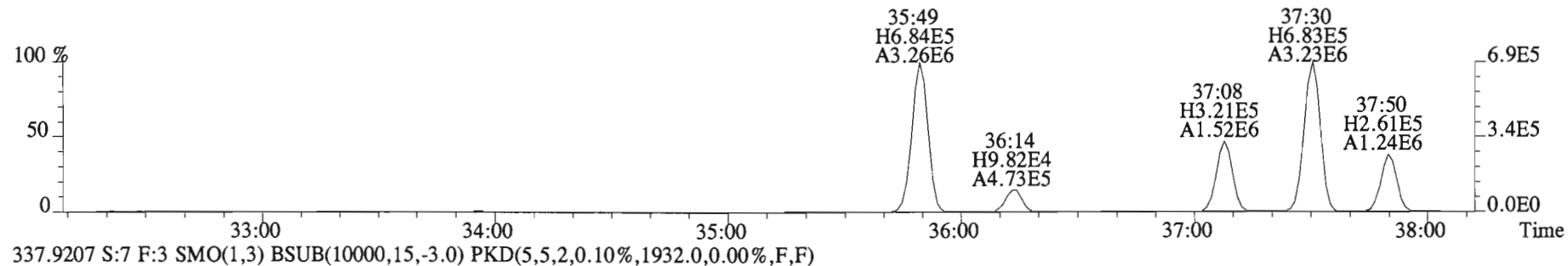
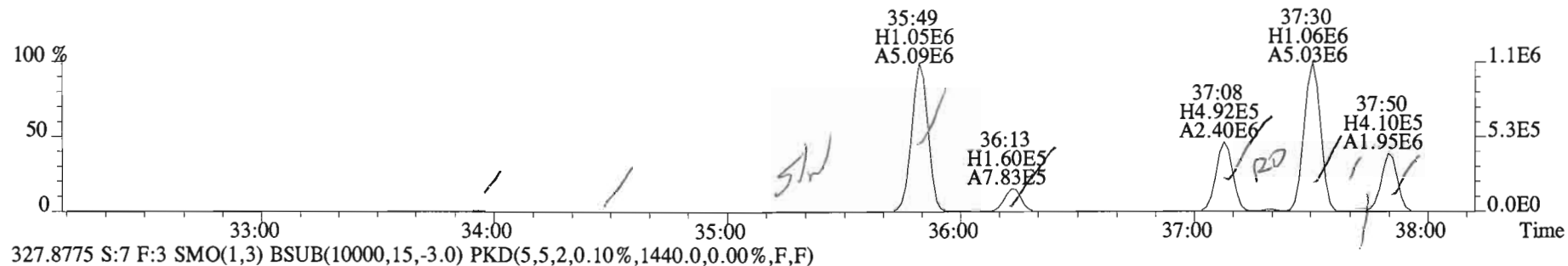
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
301.9626 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0)



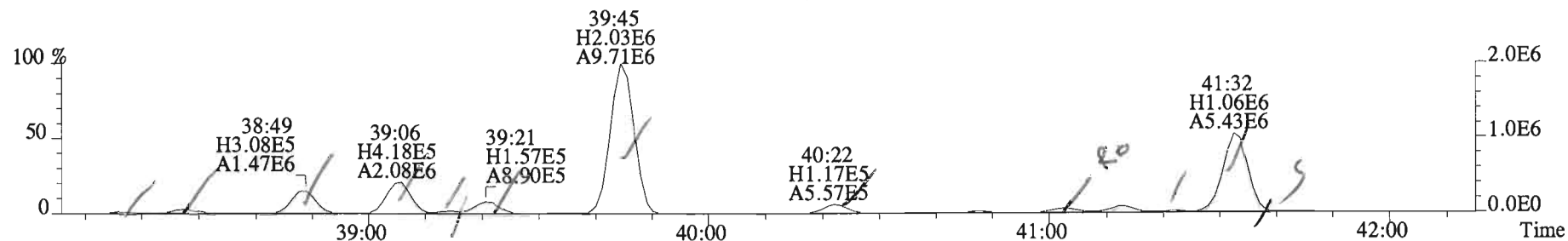
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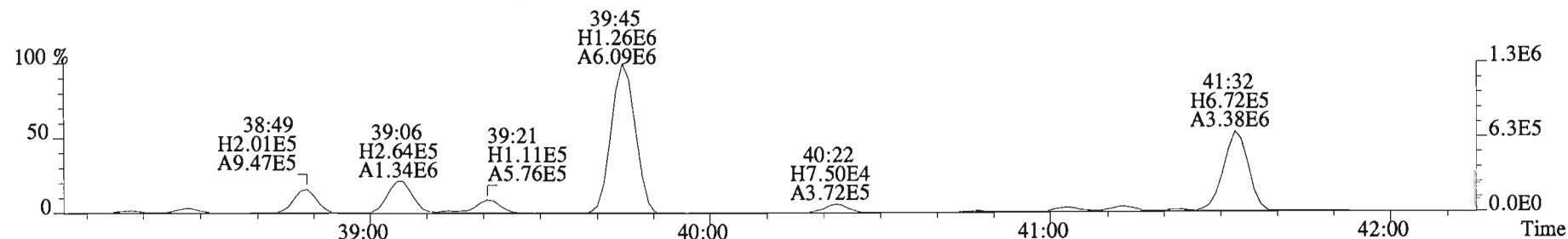
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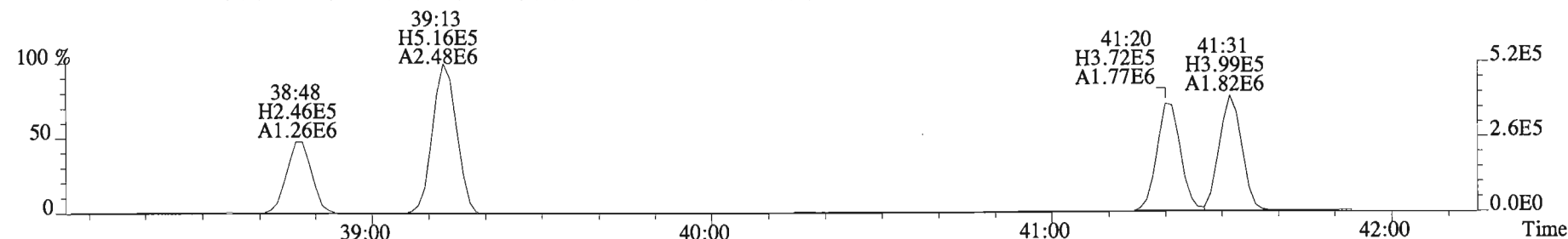
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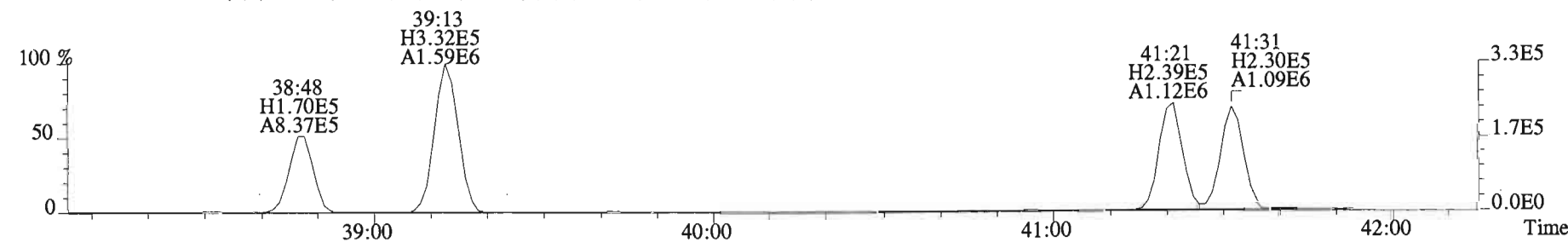
327.8775 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1440.0,0.00%,F,F)



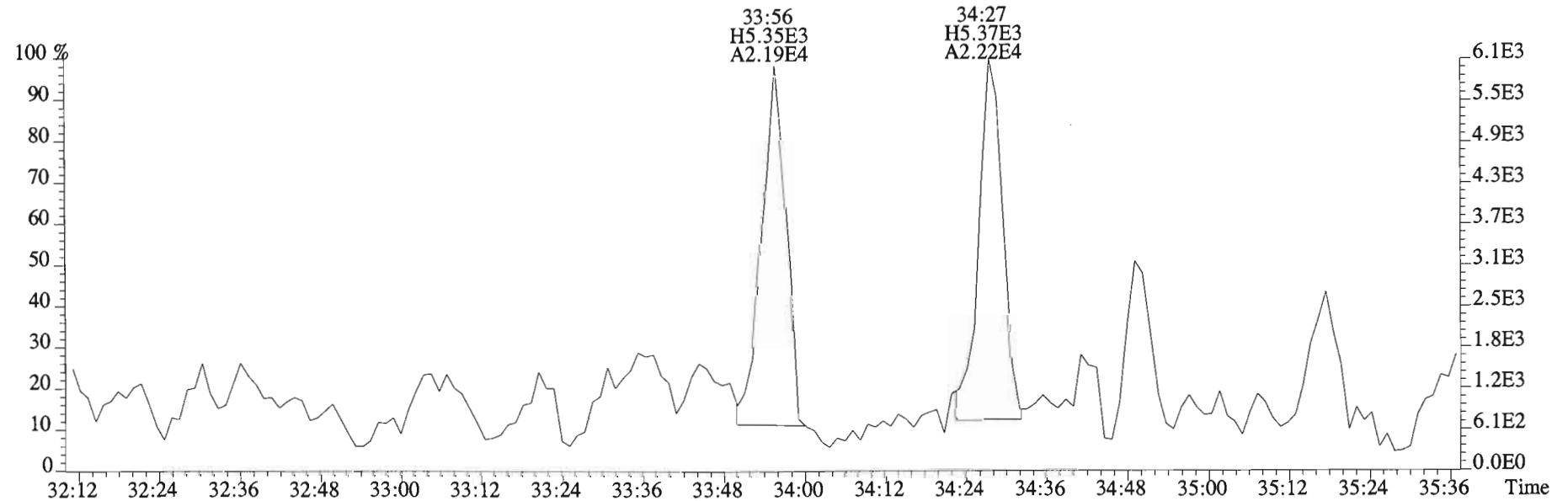
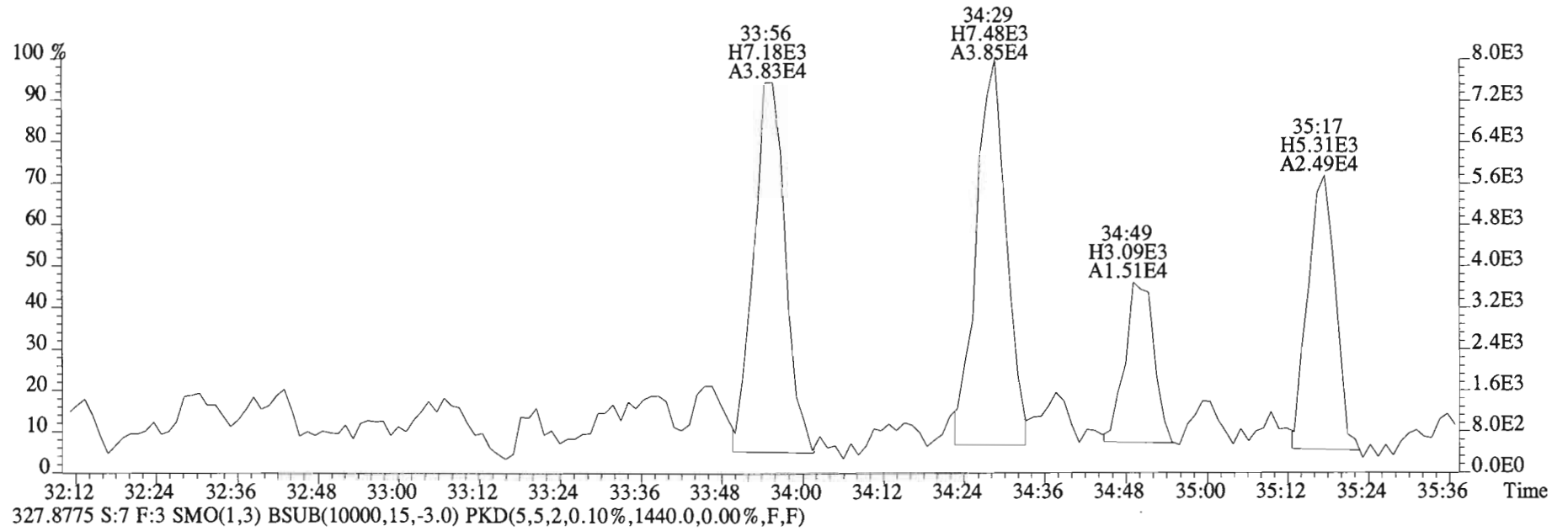
337.9207 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1932.0,0.00%,F,F)



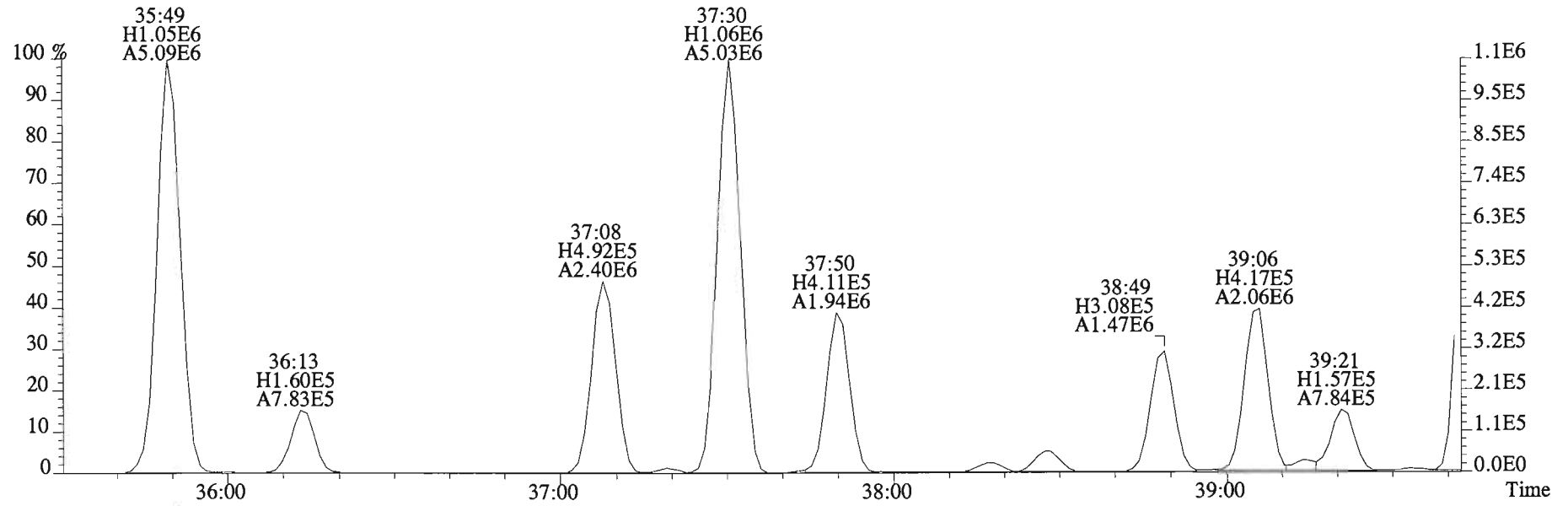
339.9177 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1924.0,0.00%,F,F)



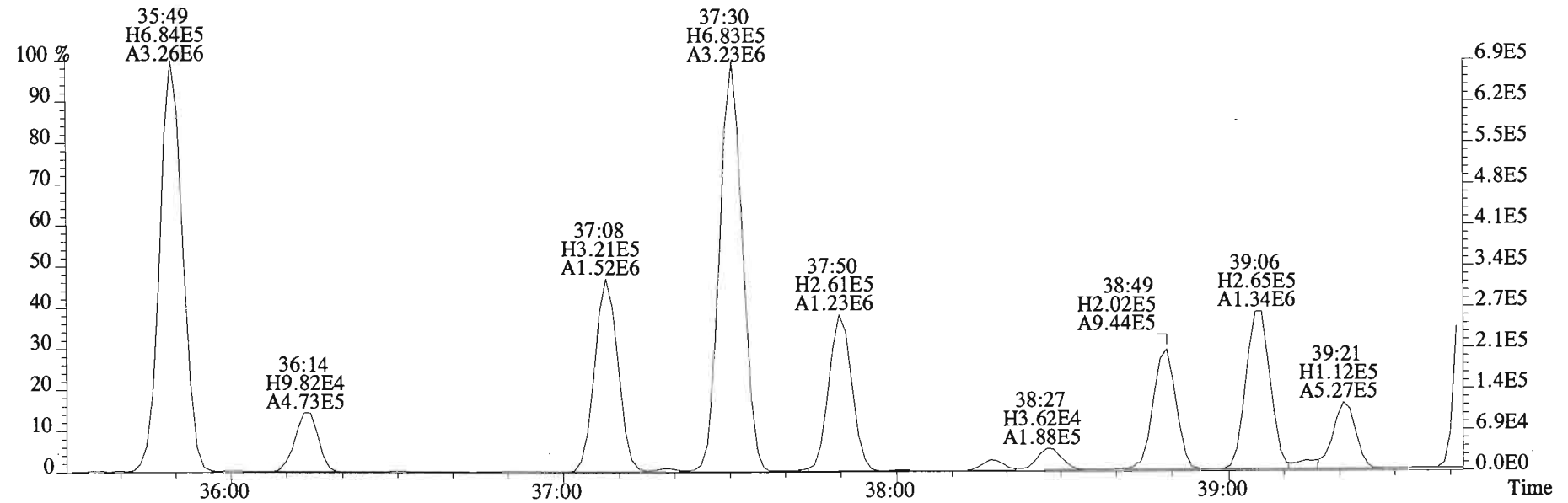
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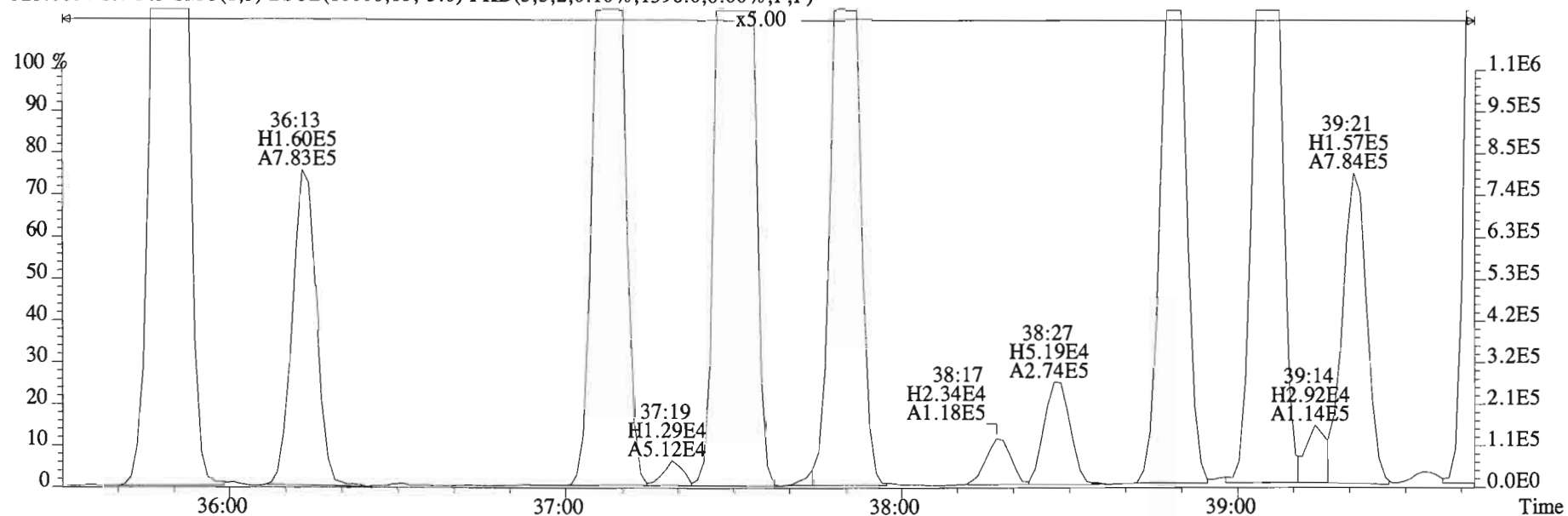
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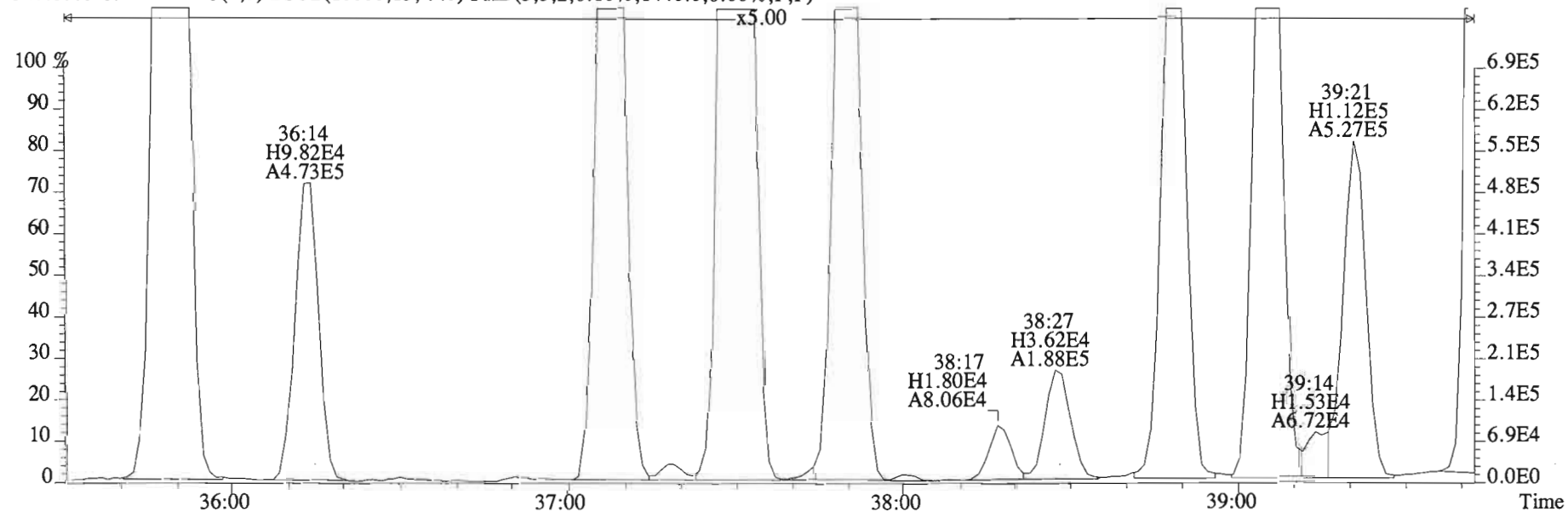
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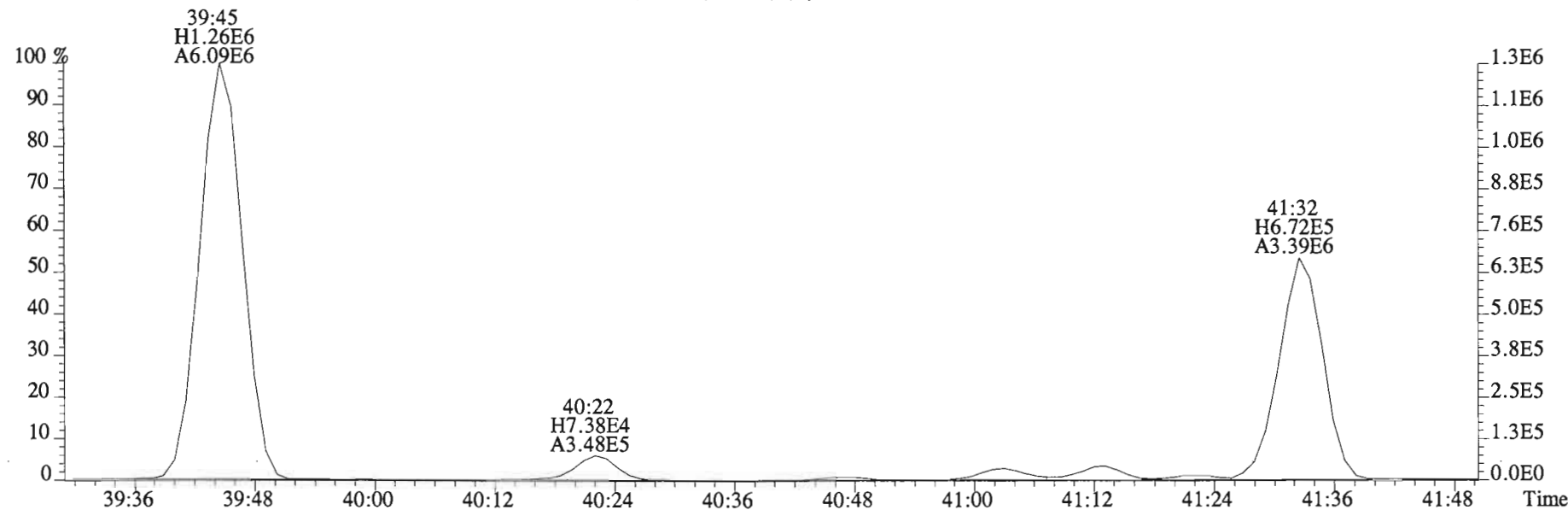
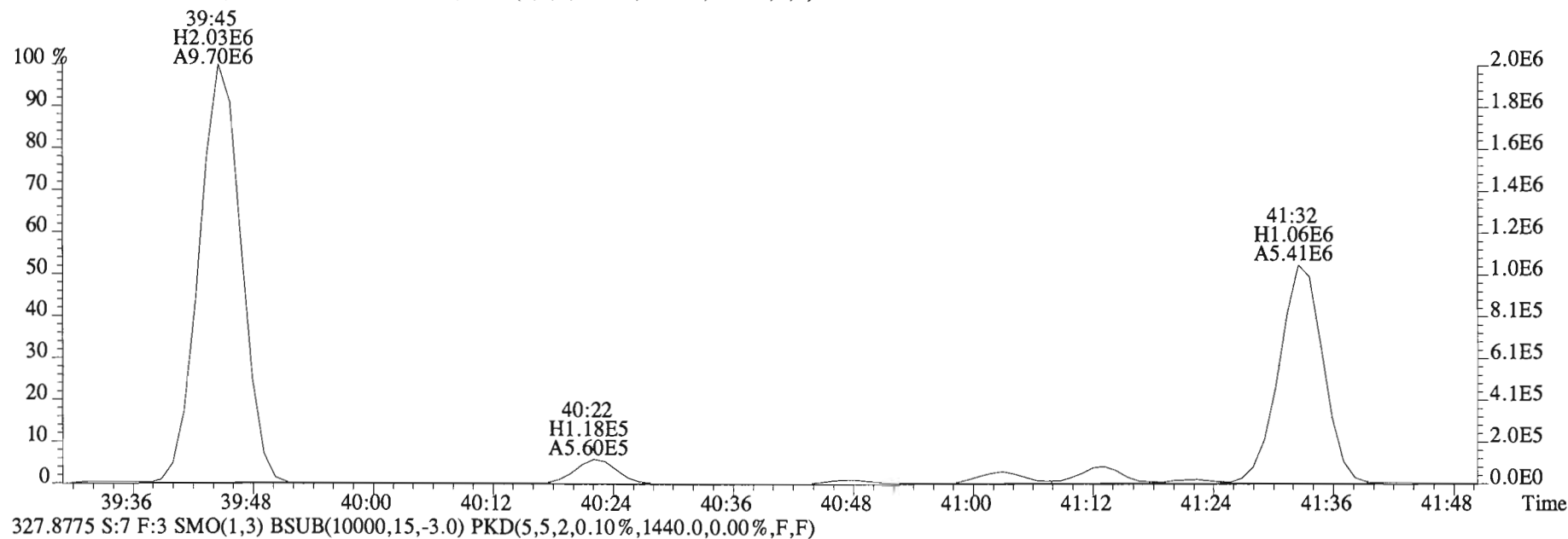
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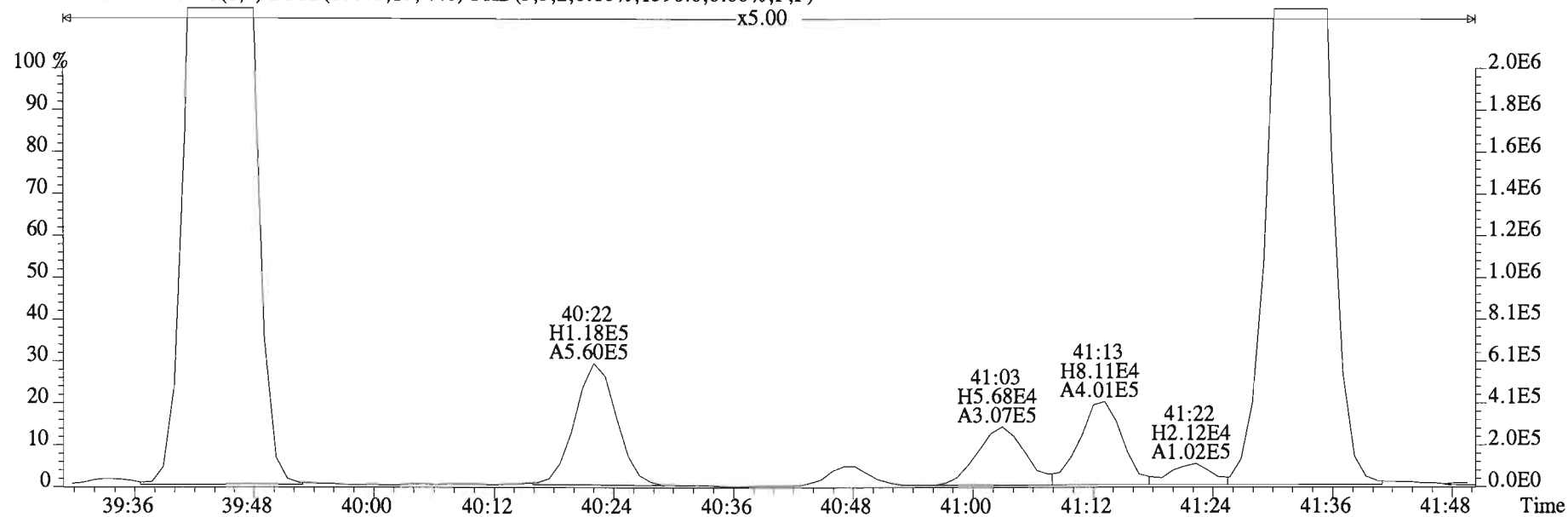
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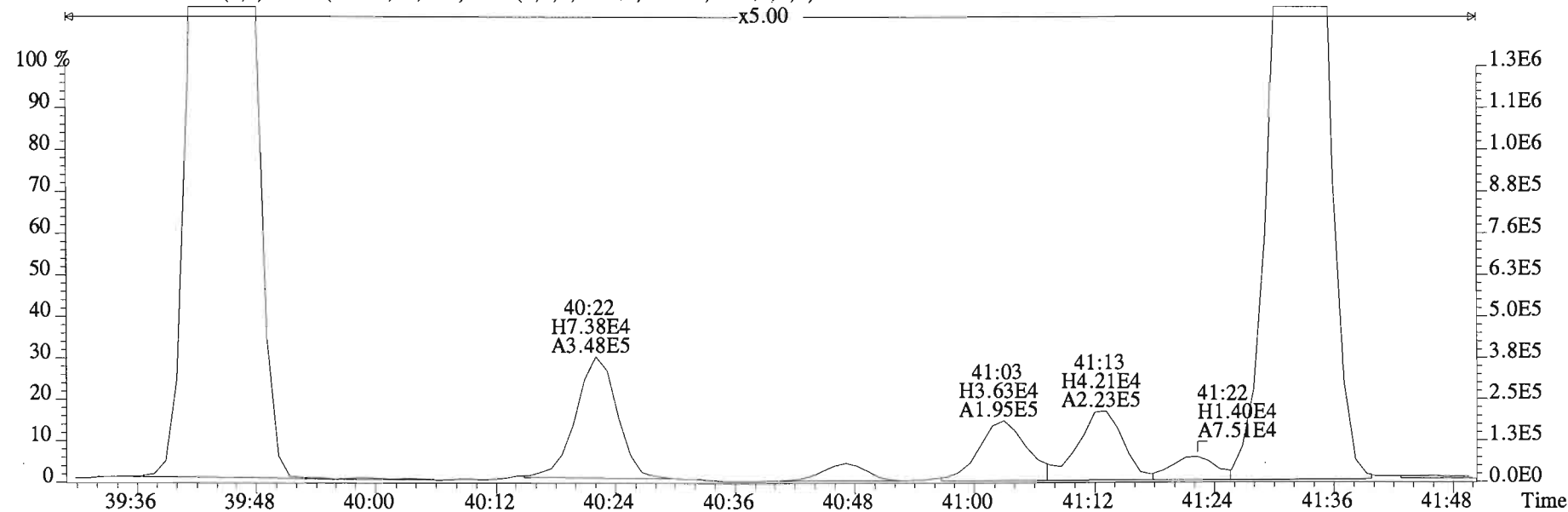
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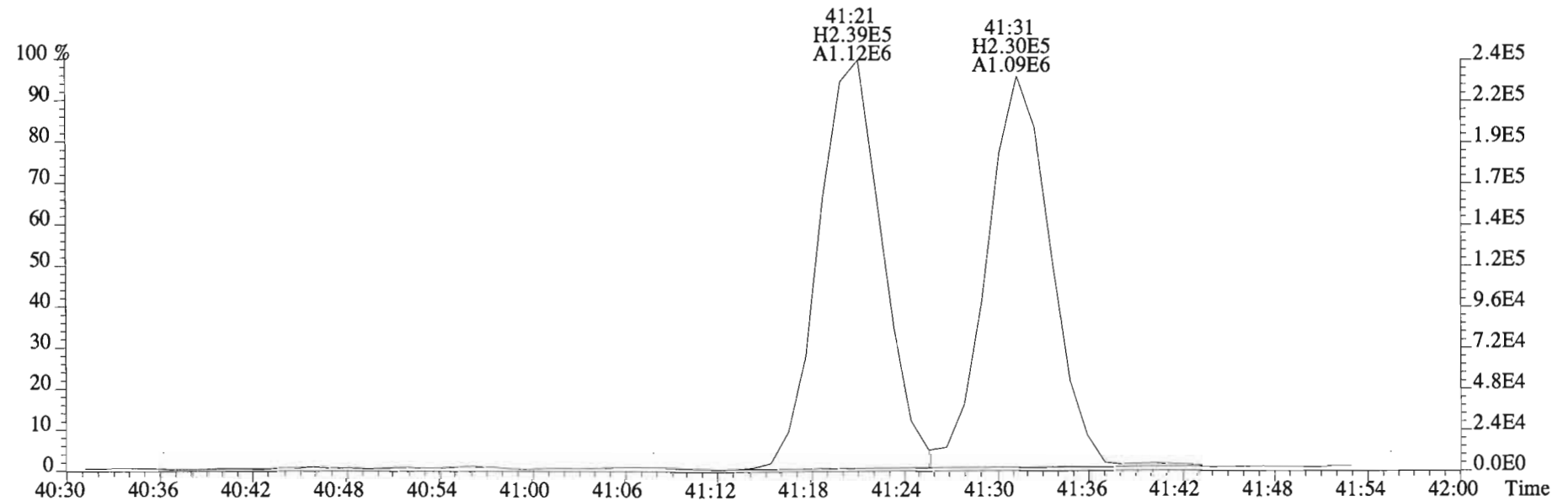
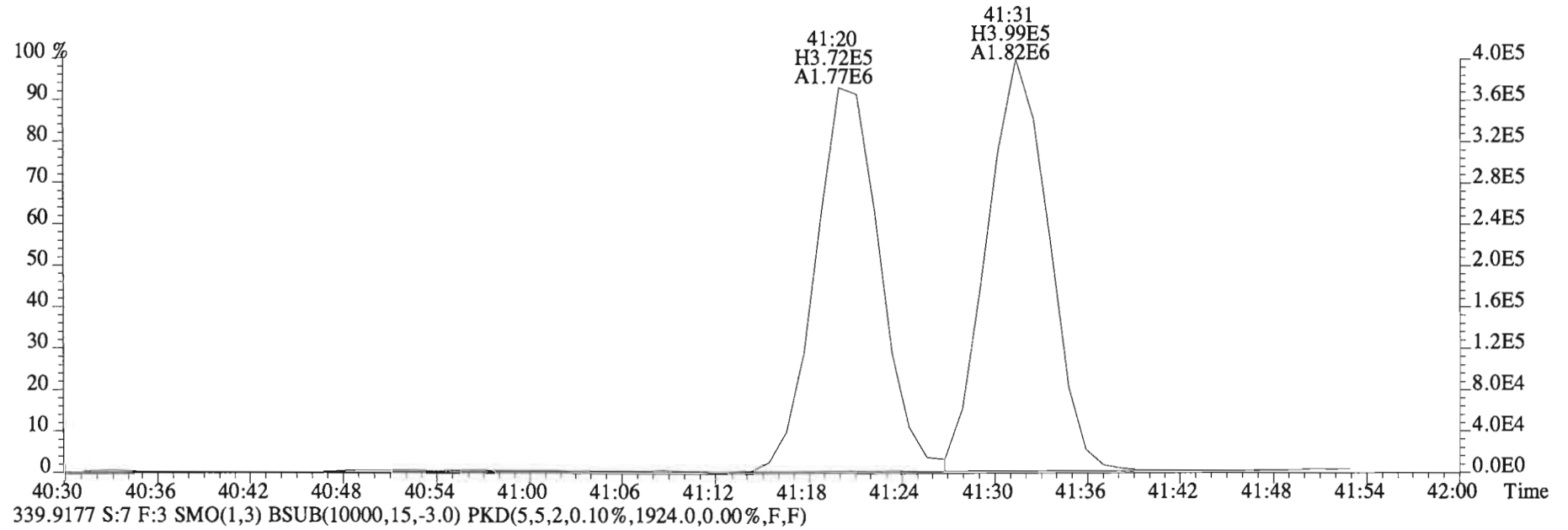
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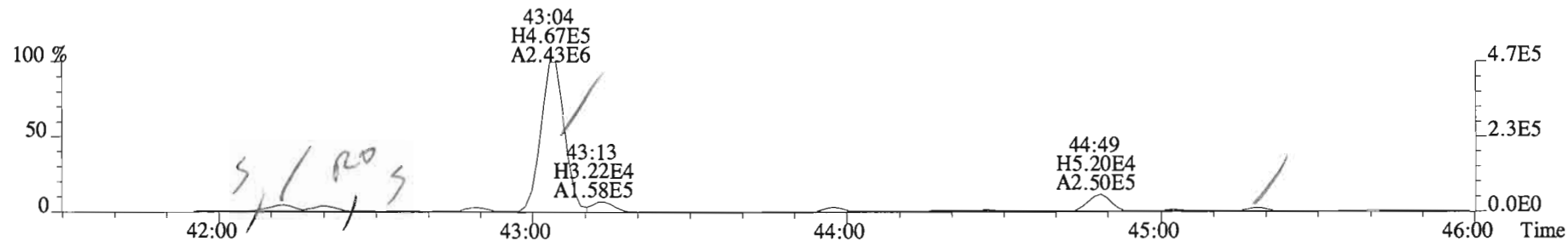
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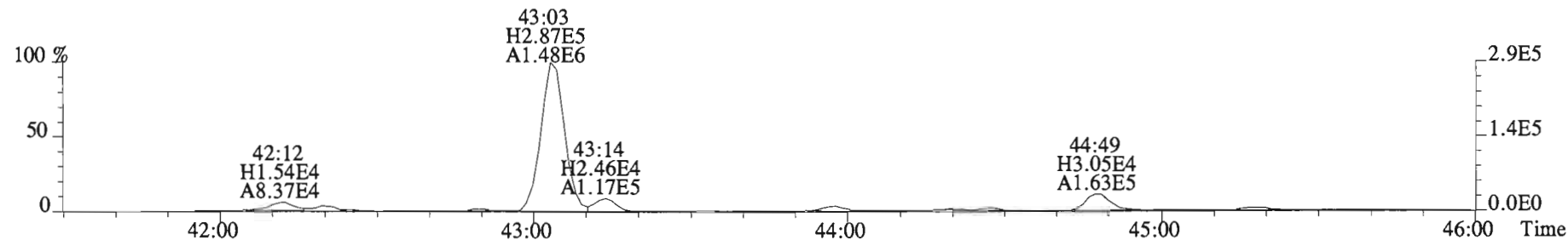
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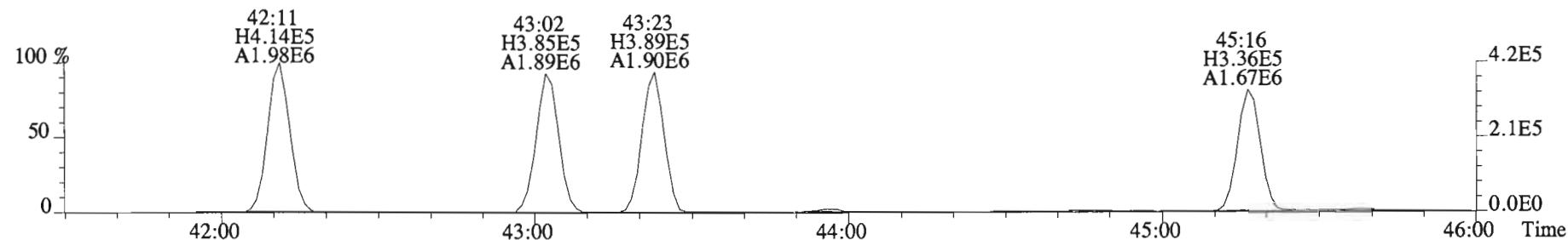
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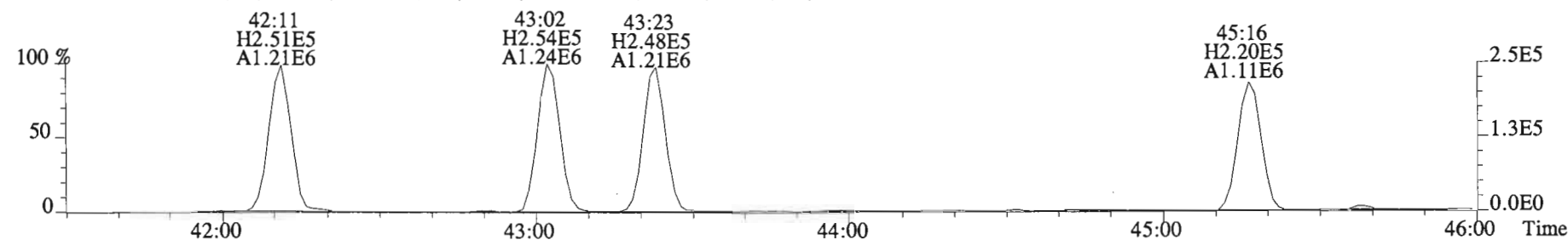
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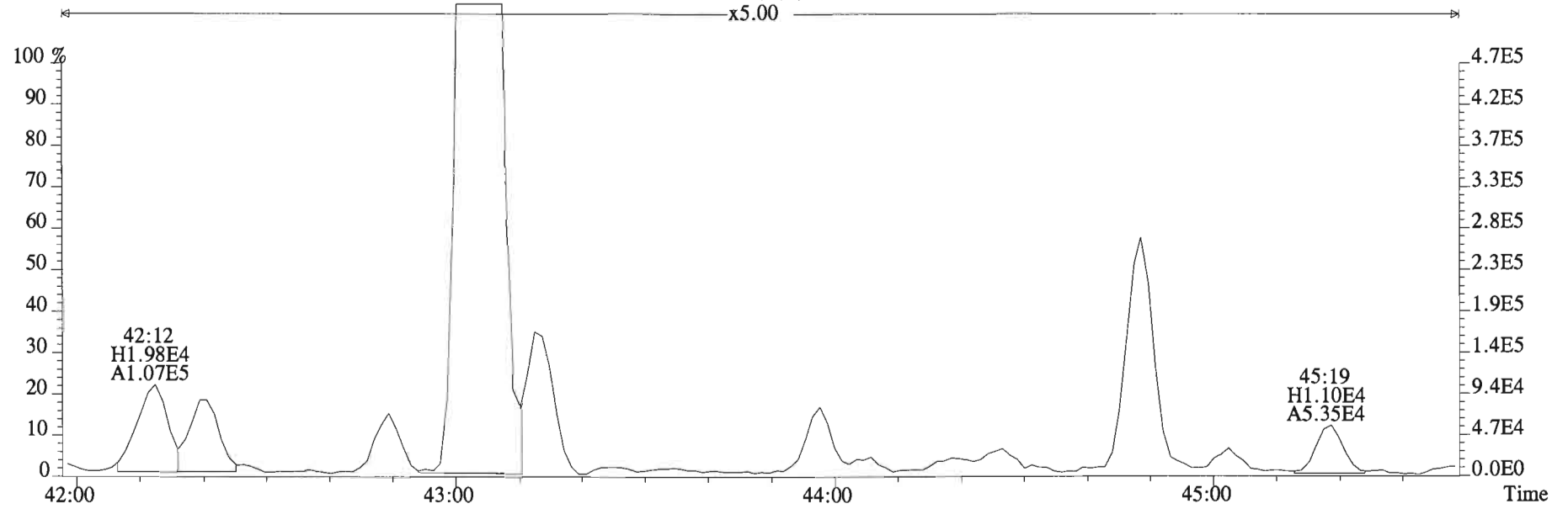
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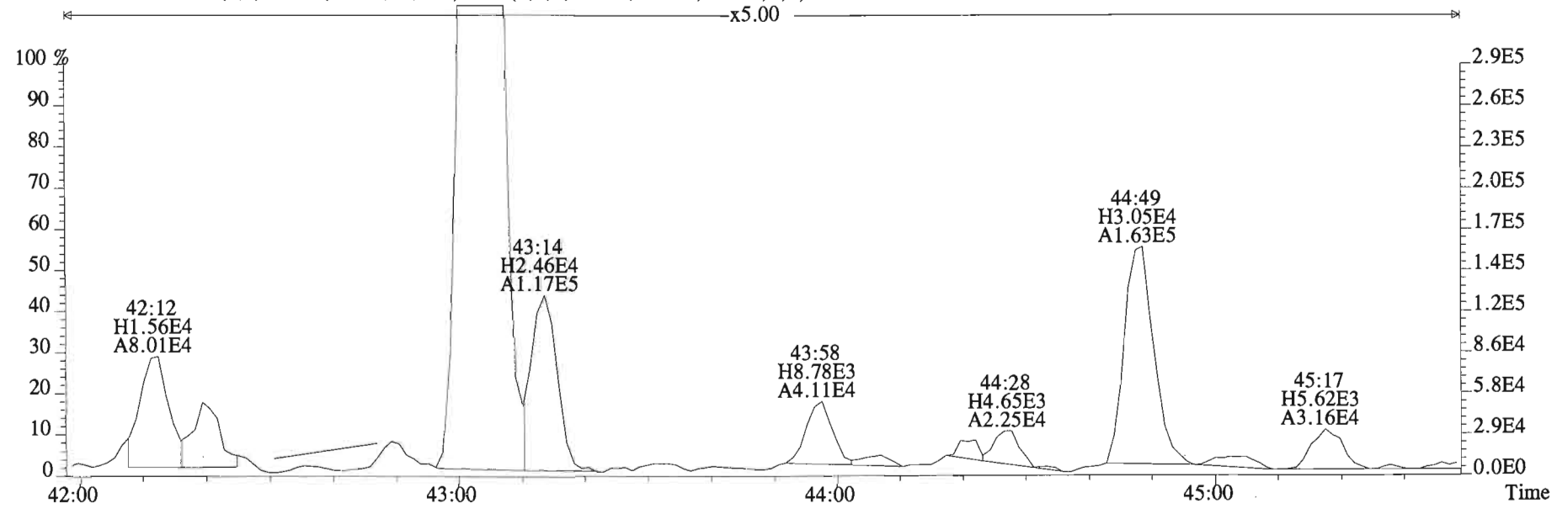
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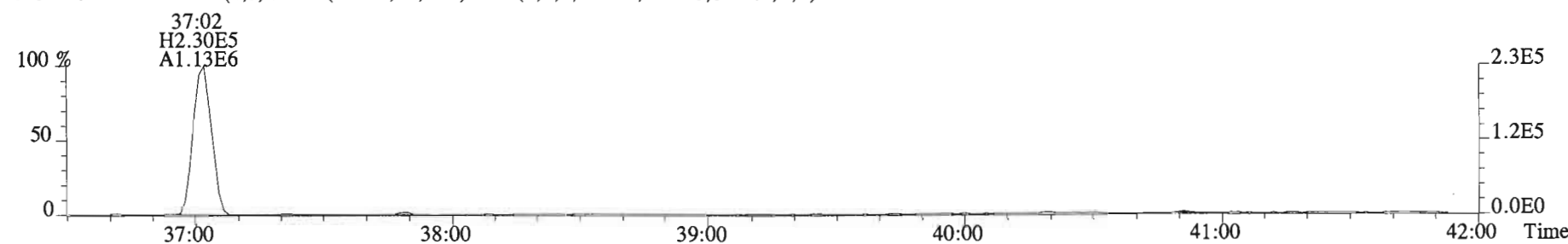
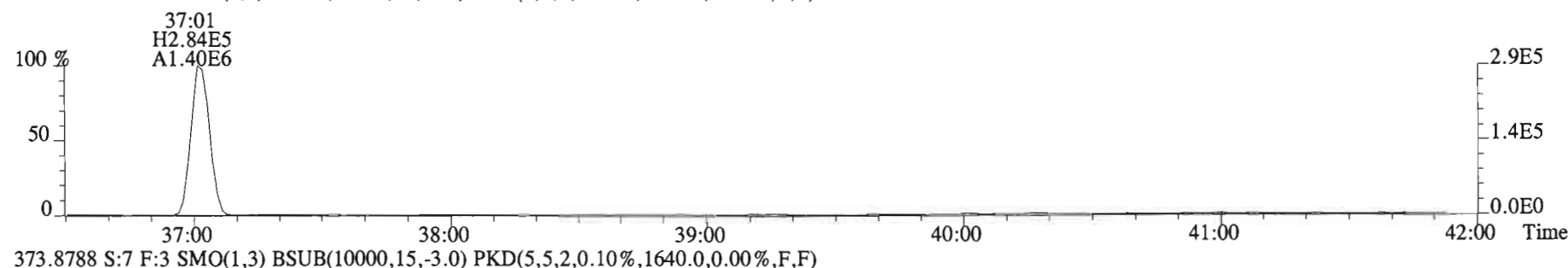
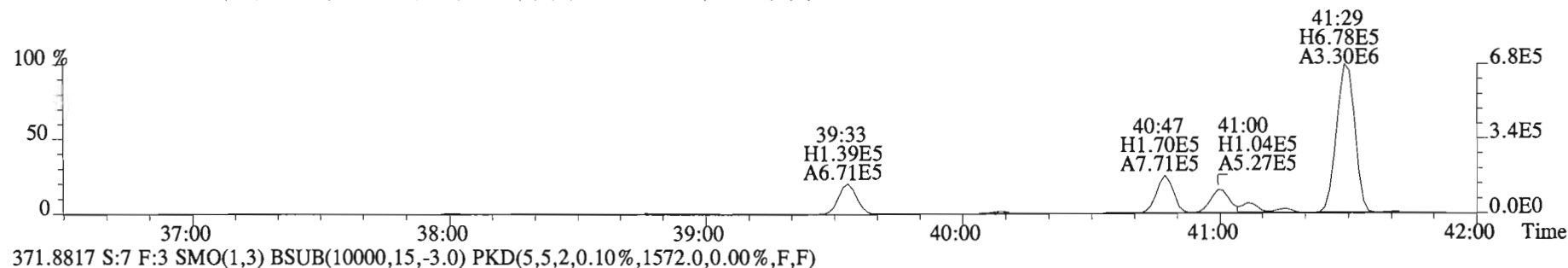
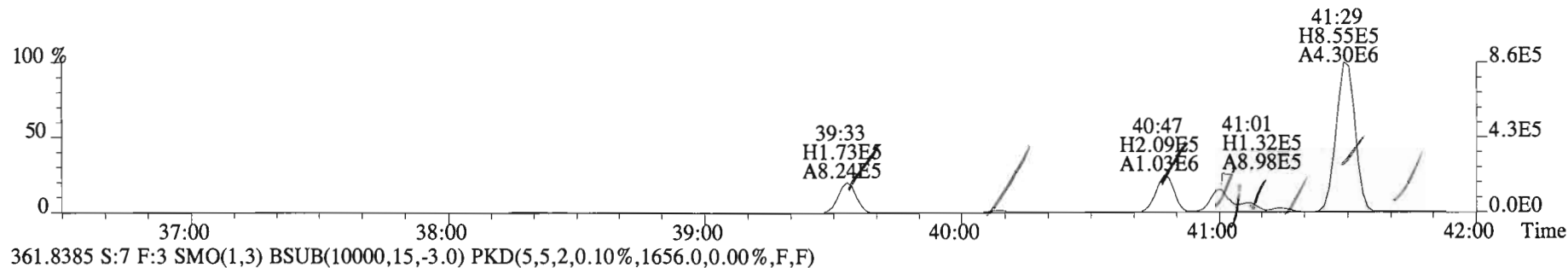
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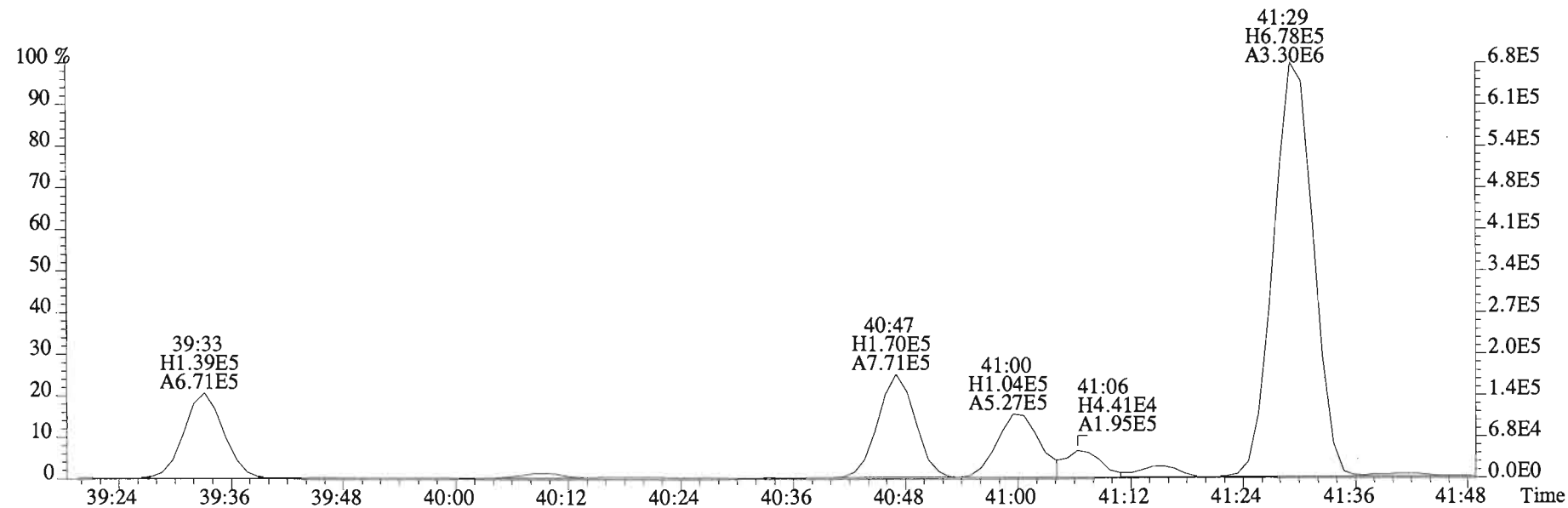
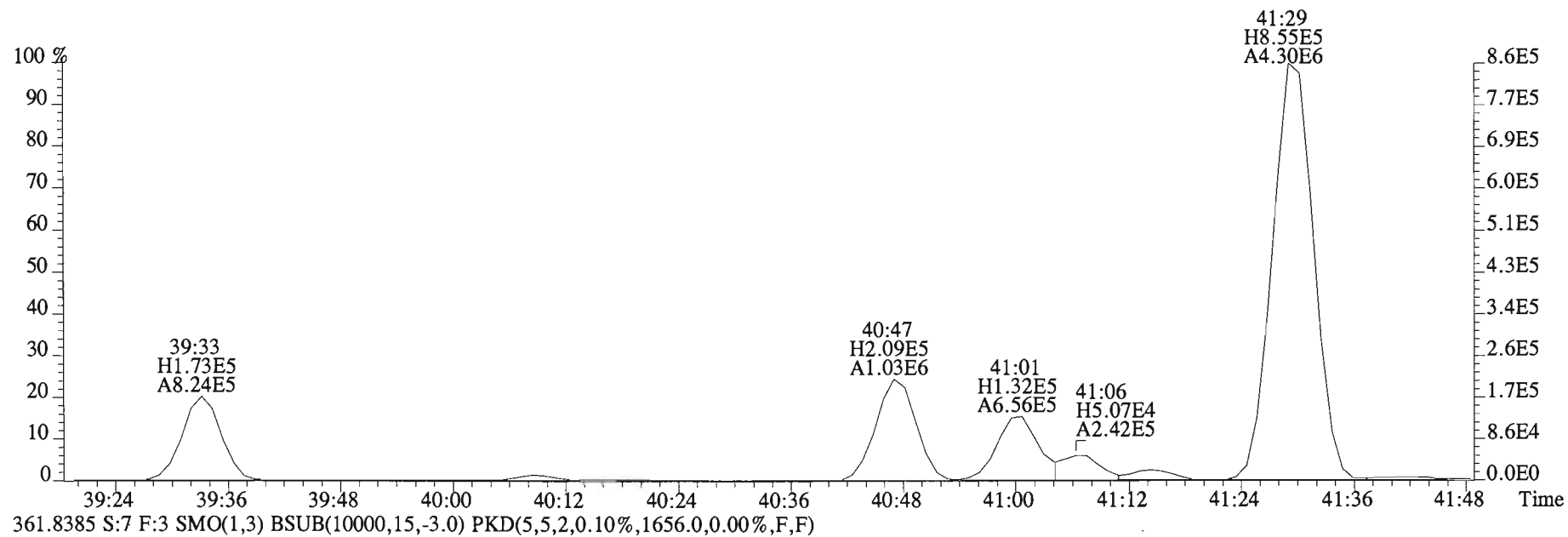
327.8775 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1796.0,0.00%,F,F)



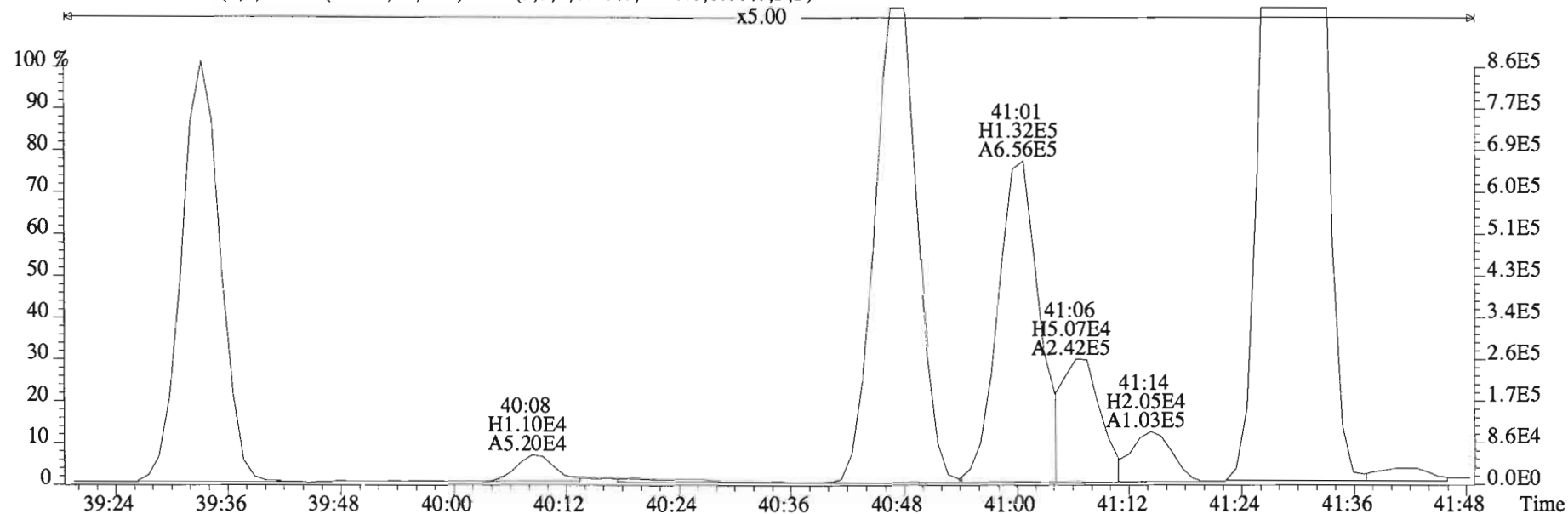
File:150226E1 #1-758 Acq:26-FEB-2015 18:10:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
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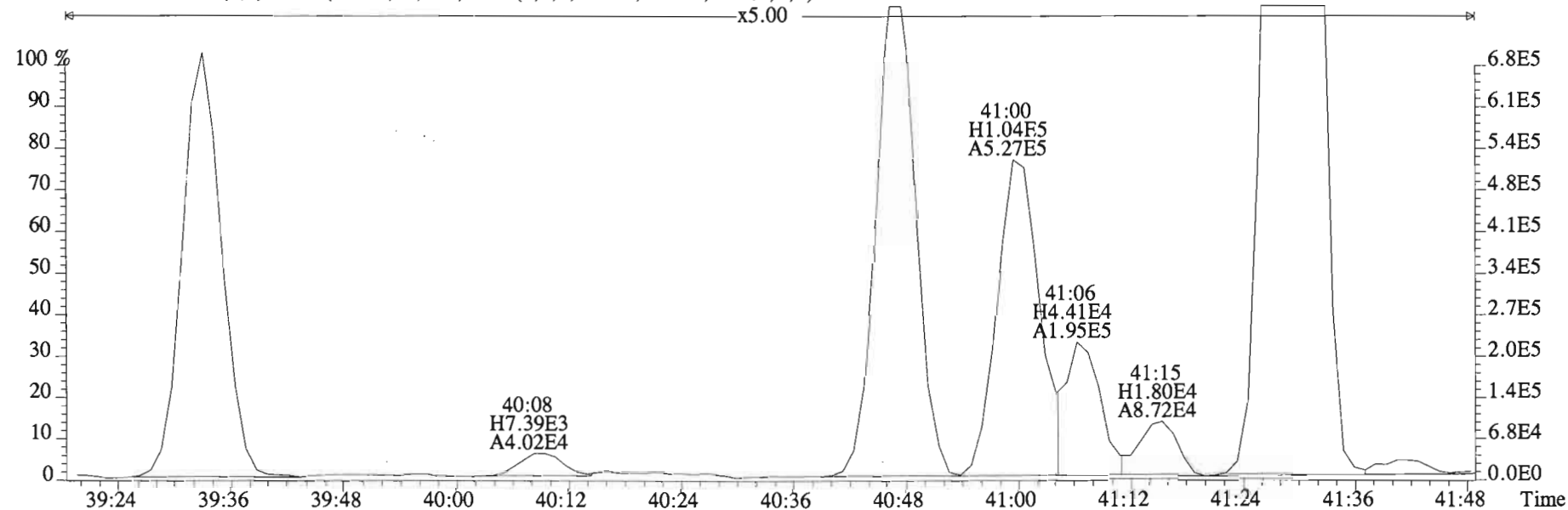
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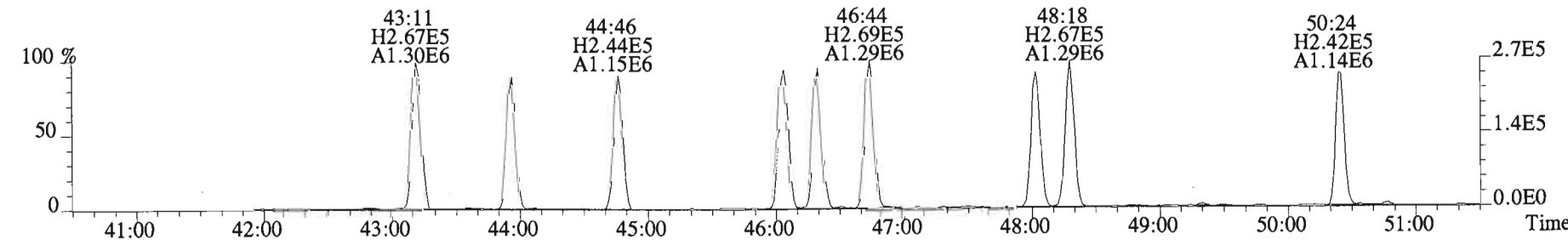
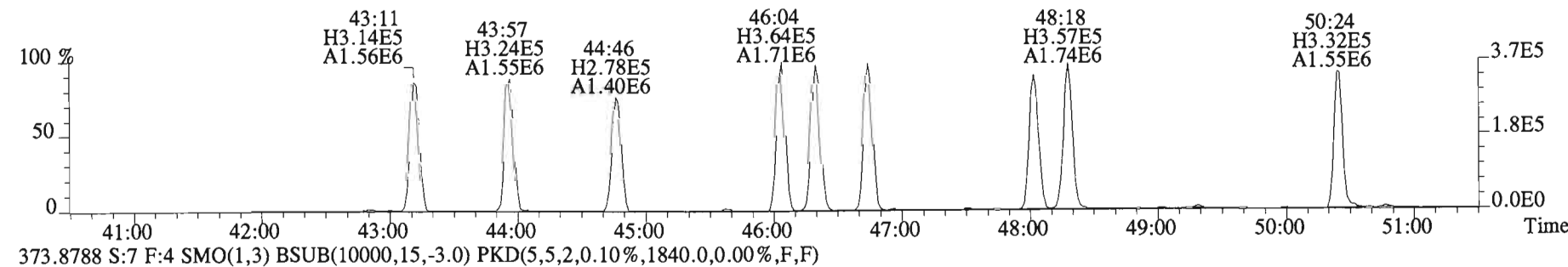
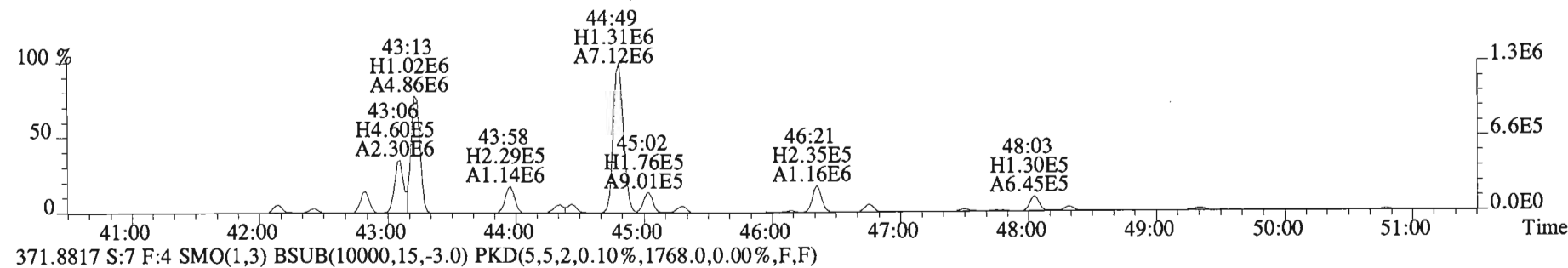
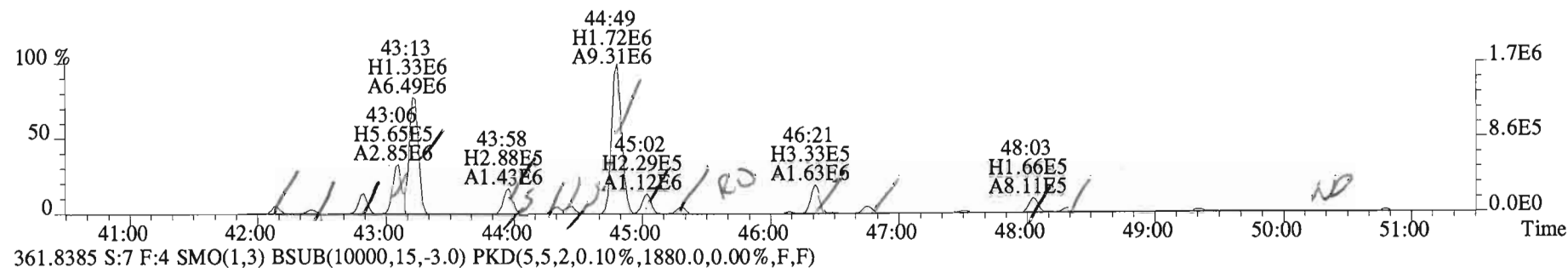
File:150226E1 #1-758 Acq:26-FEB-2015 18:10:48 GC EI+ Voltage SIR Autospec-UltimaE
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 359.8415 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1476.0,0.00%,F,F)



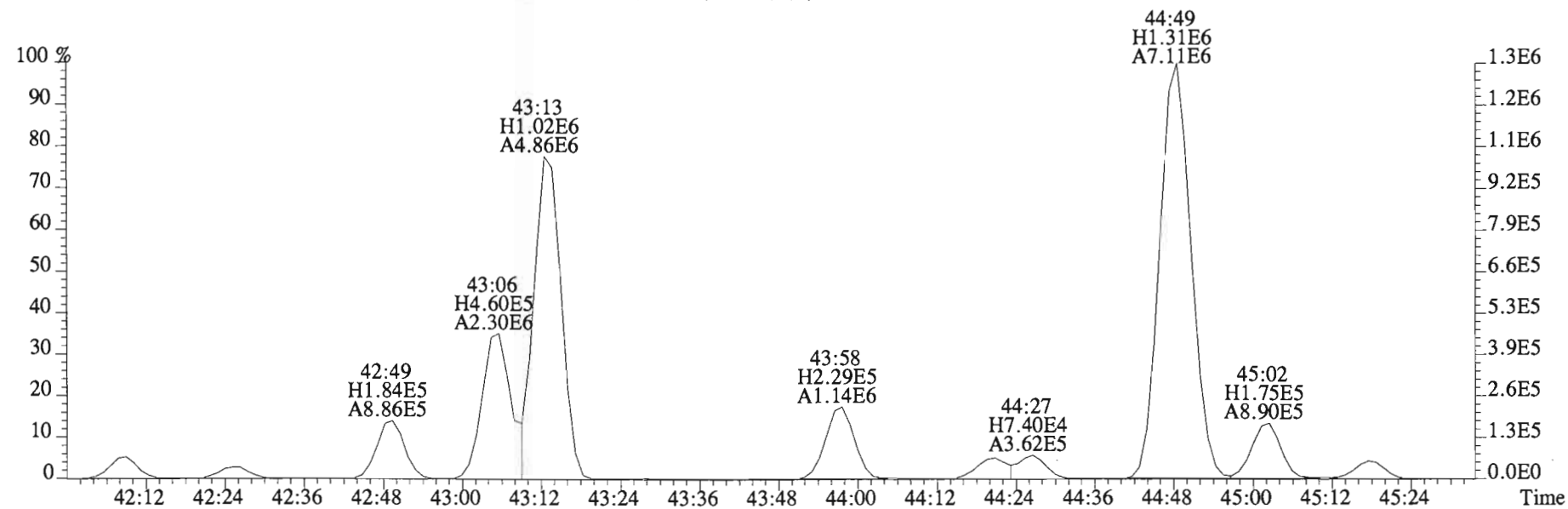
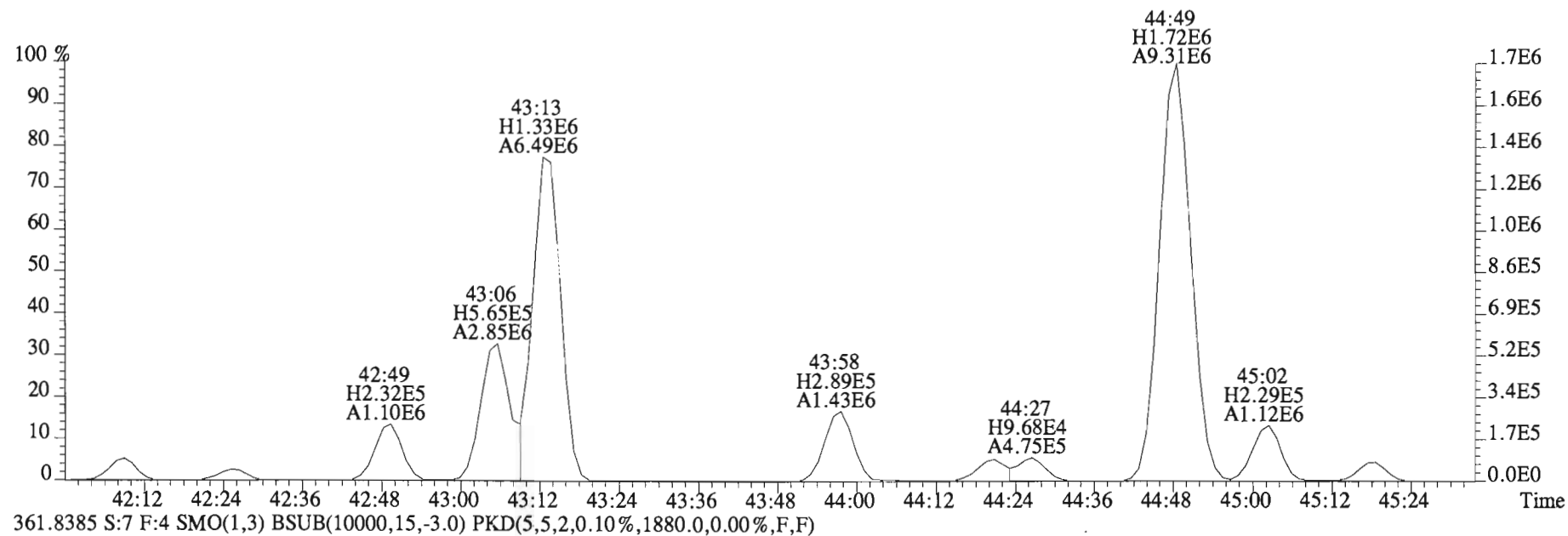
361.8385 S:7 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1656.0,0.00%,F,F)



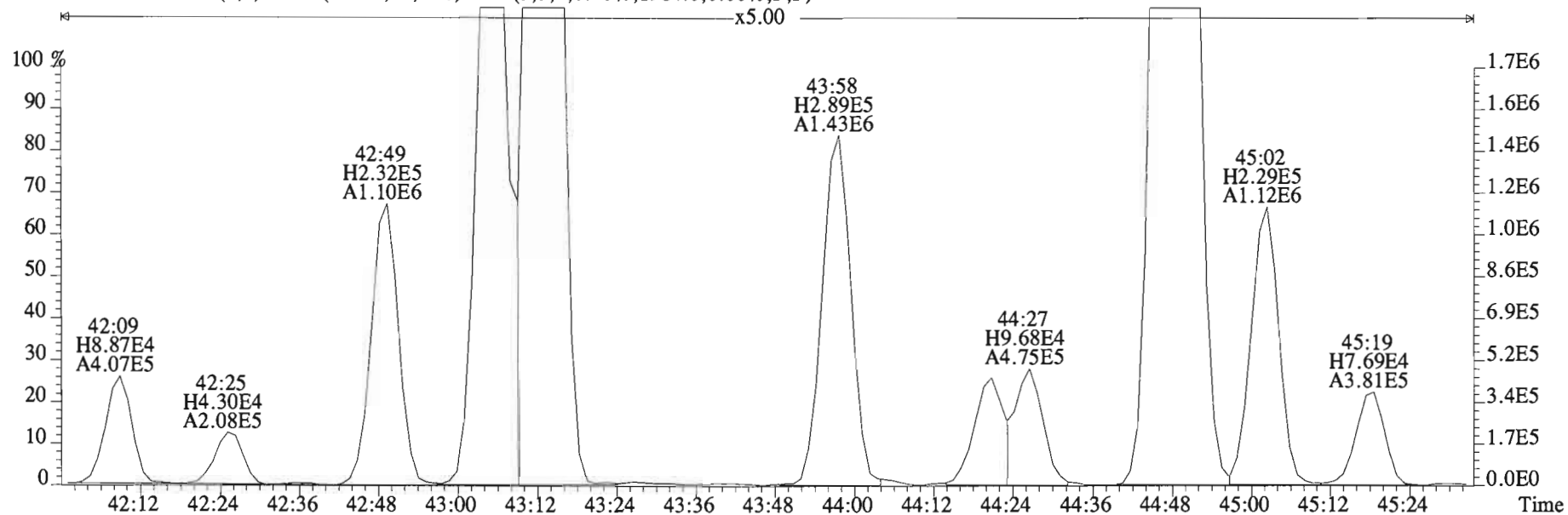
File:150226E1 #1-555 Acq:26-FEB-2015 18:10:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1984.0,0.00%,F,F)



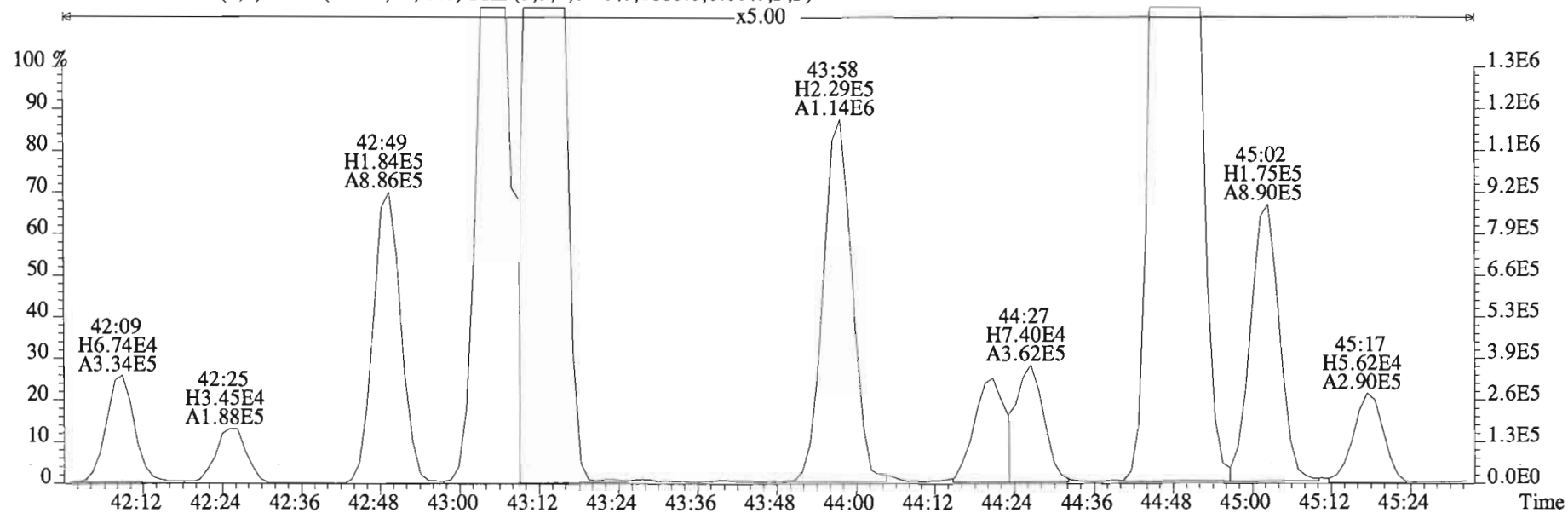
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 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
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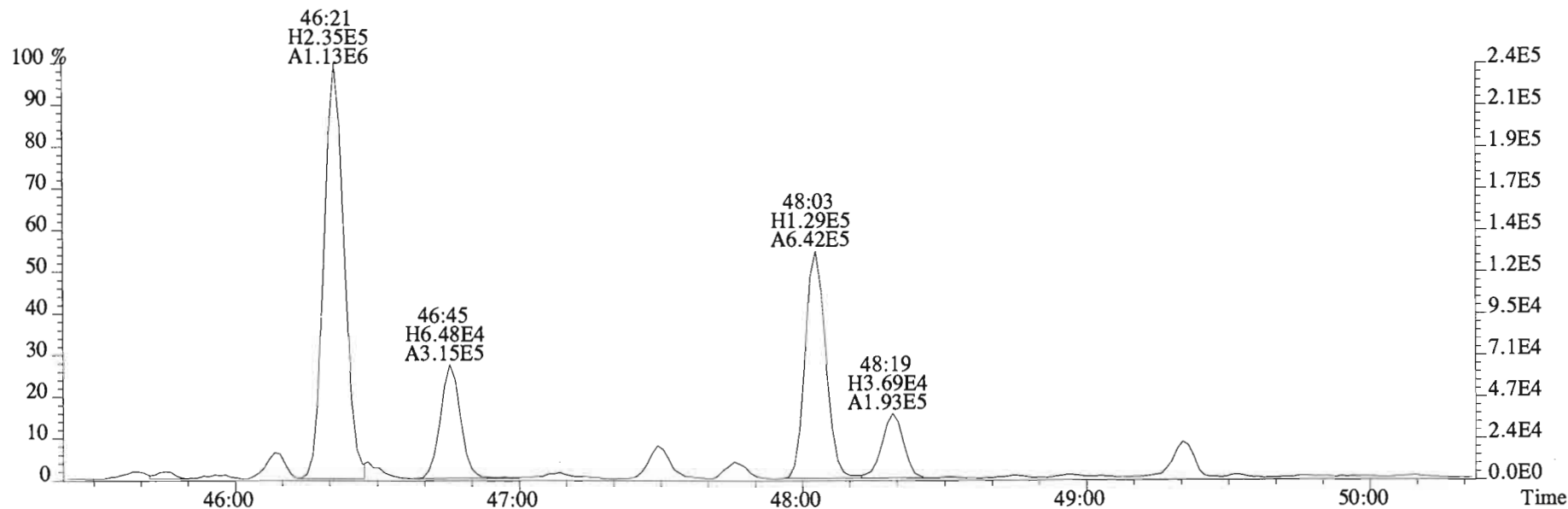
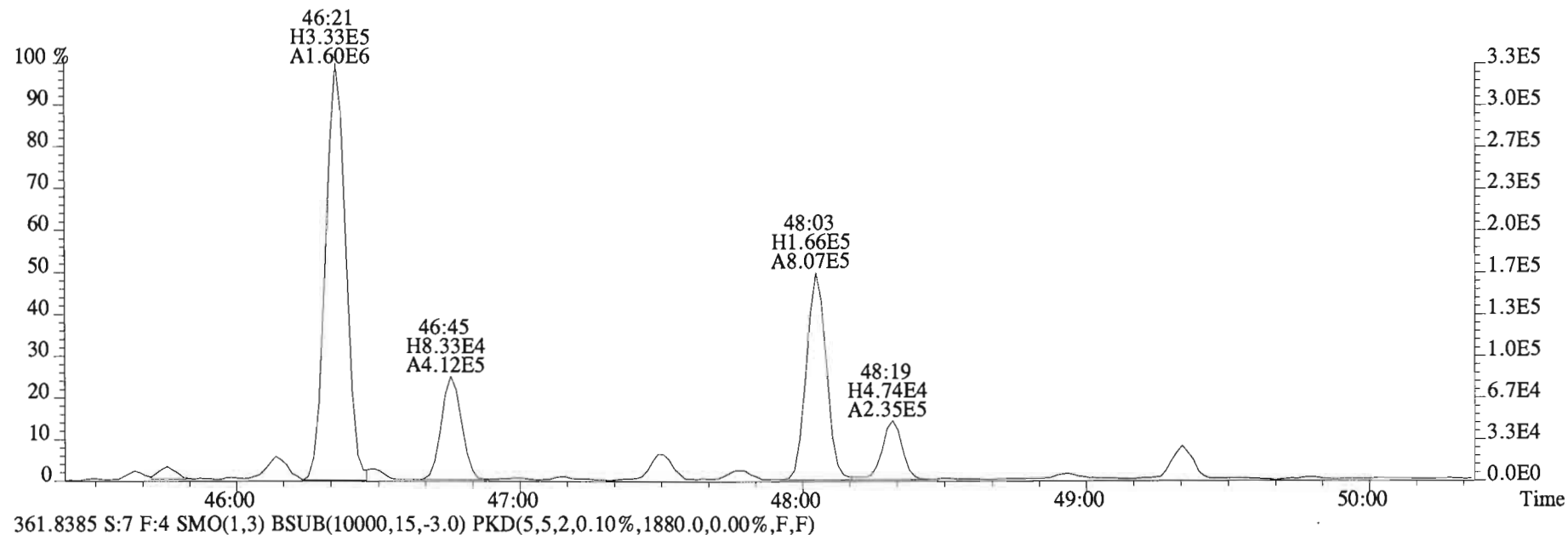
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 Sample#7 File Text: Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
 359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1984.0,0.00%,F,F)



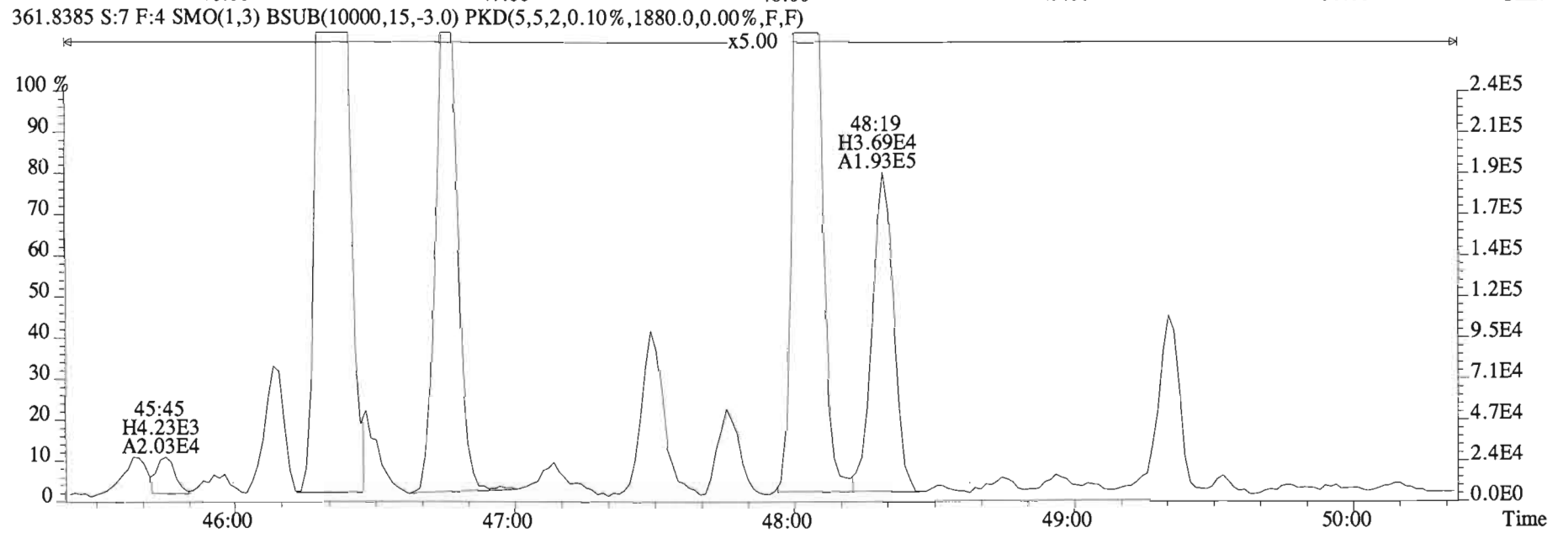
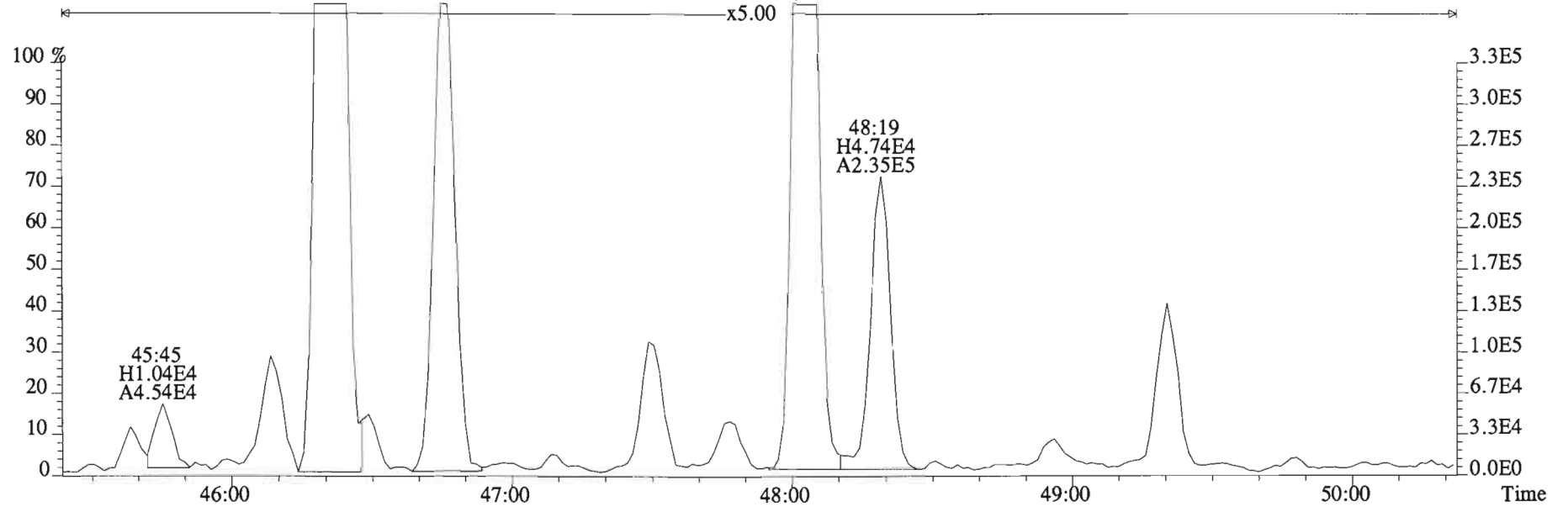
361.8385 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1880.0,0.00%,F,F)



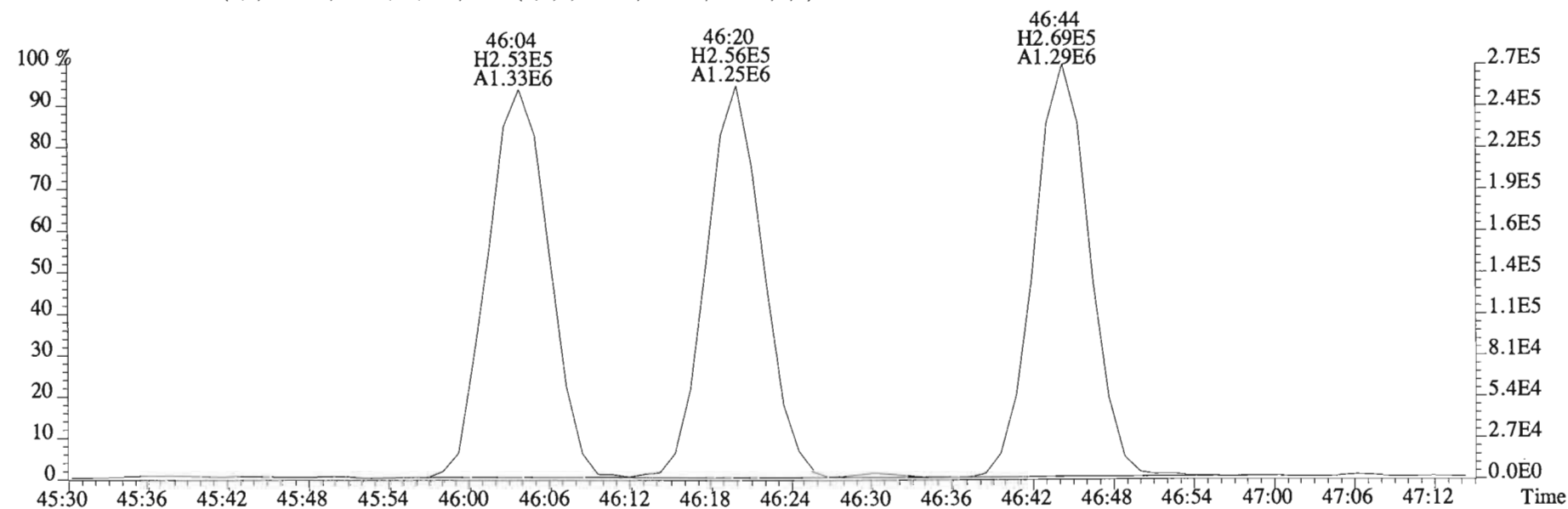
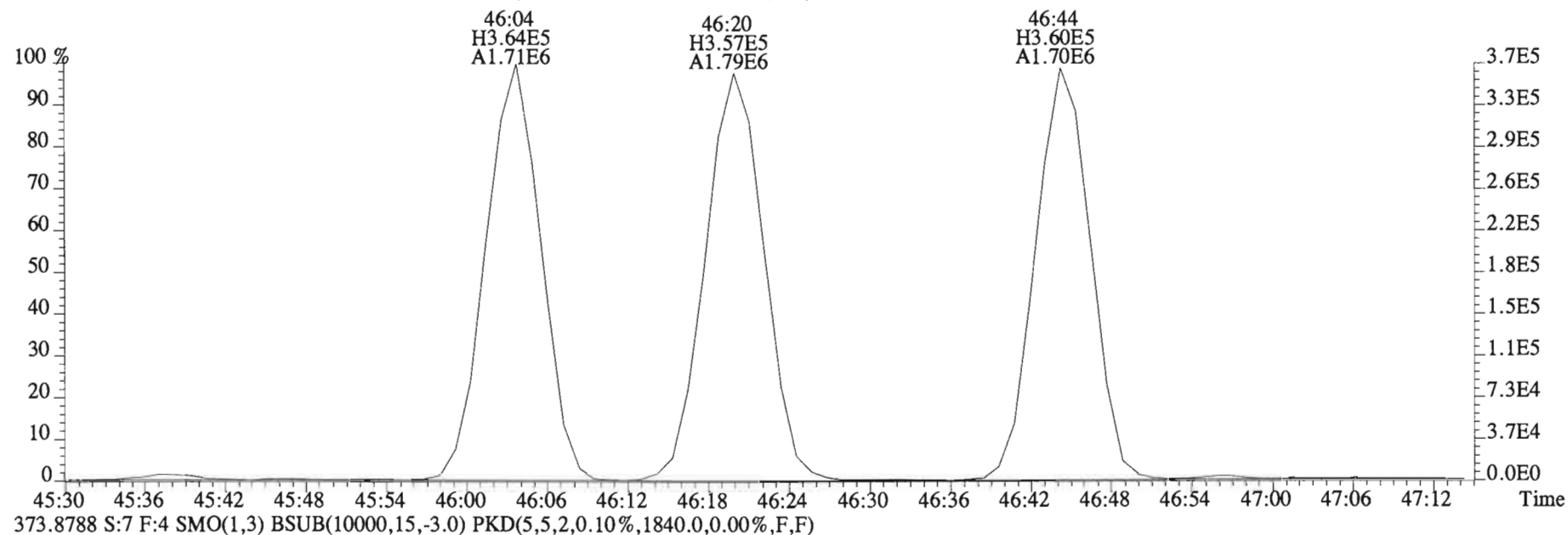
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 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
 359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1984.0,0.00%,F,F)



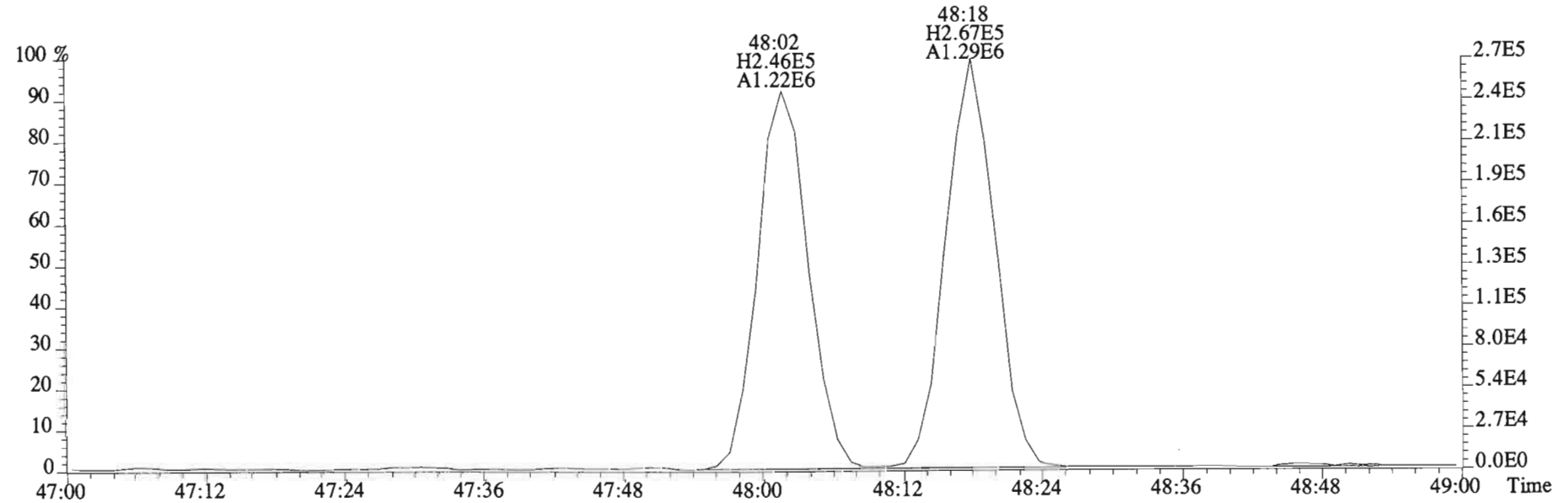
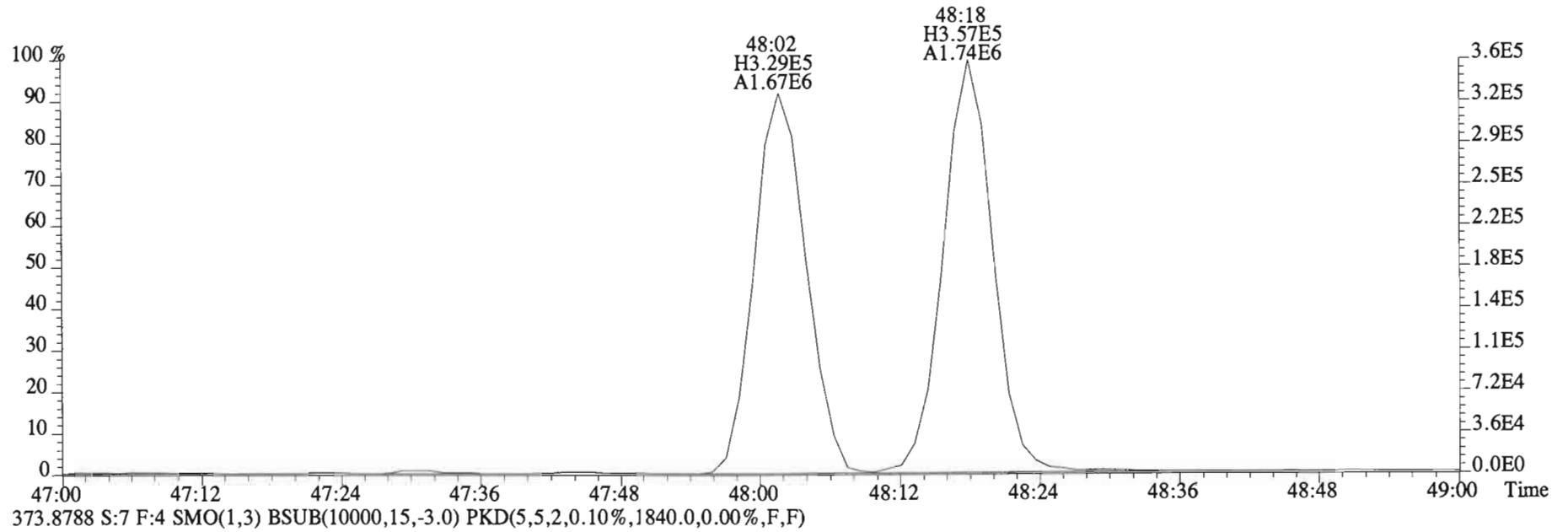
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
359.8415 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1984.0,0.00%,F,F)



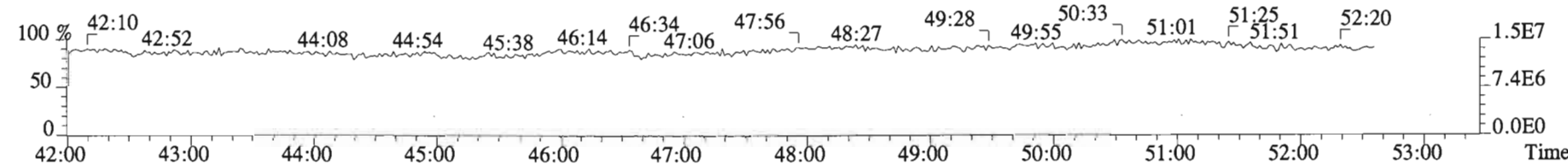
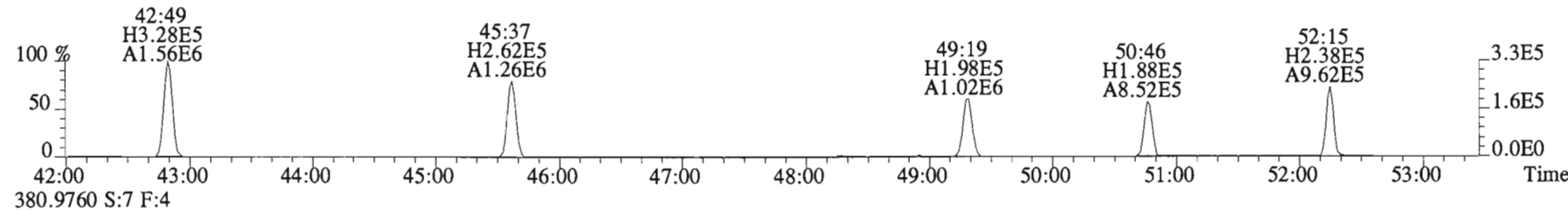
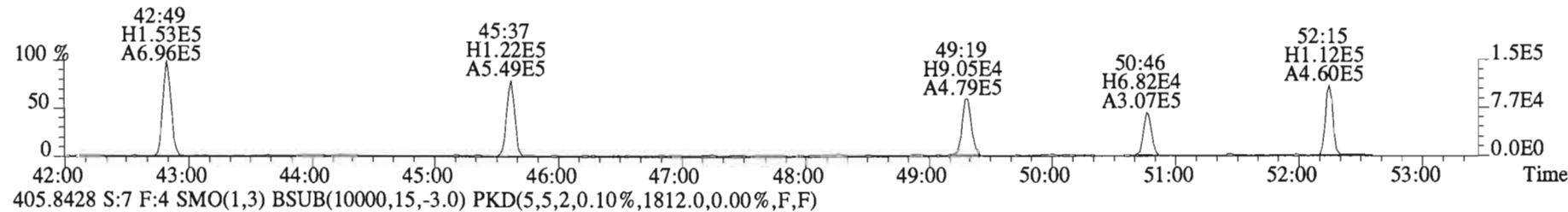
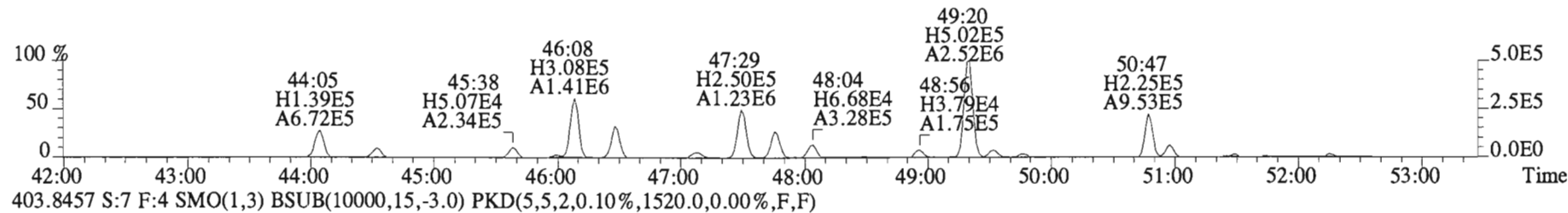
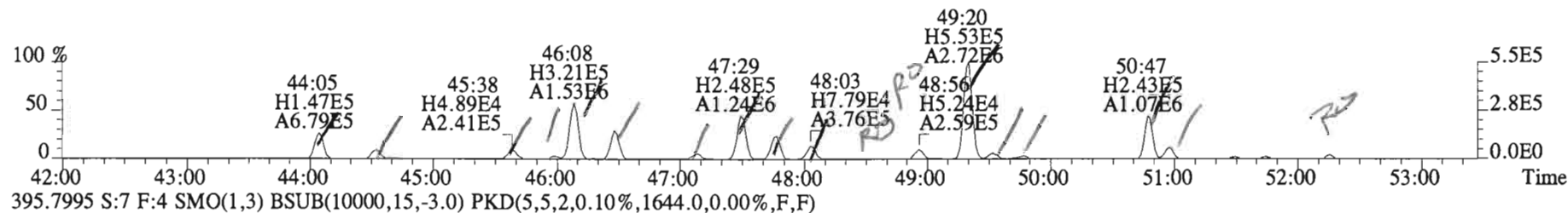
File:150226E1 #1-555 Acq:26-FEB-2015 18:10:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1768.0,0.00%,F,F)



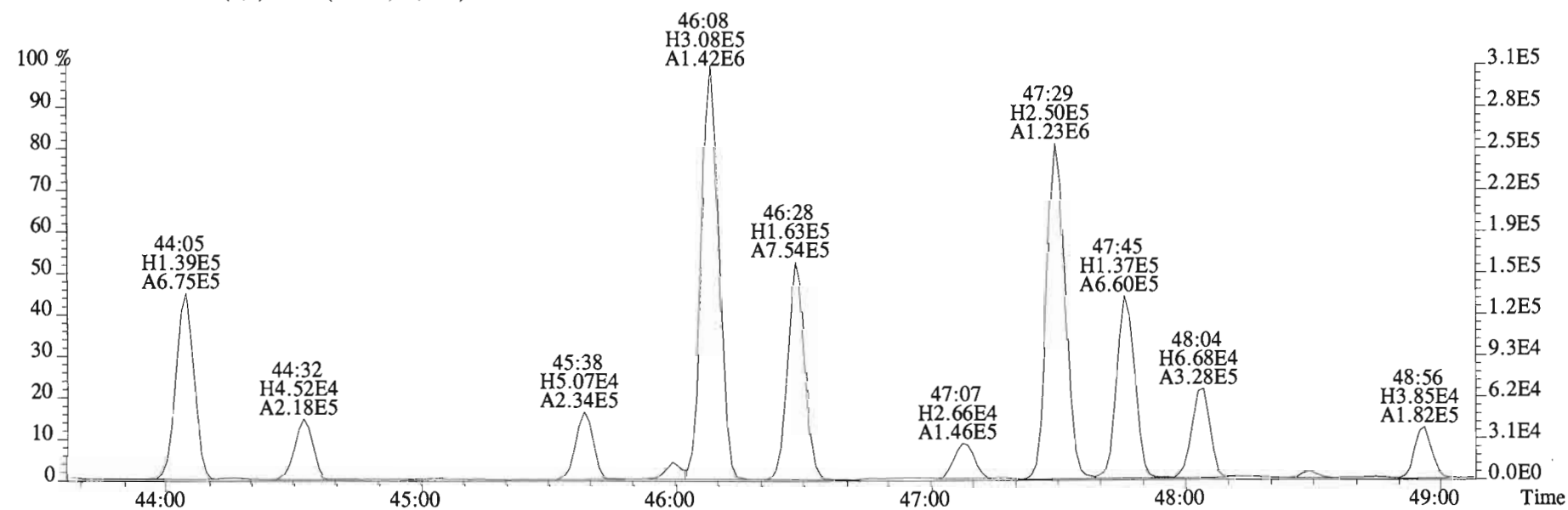
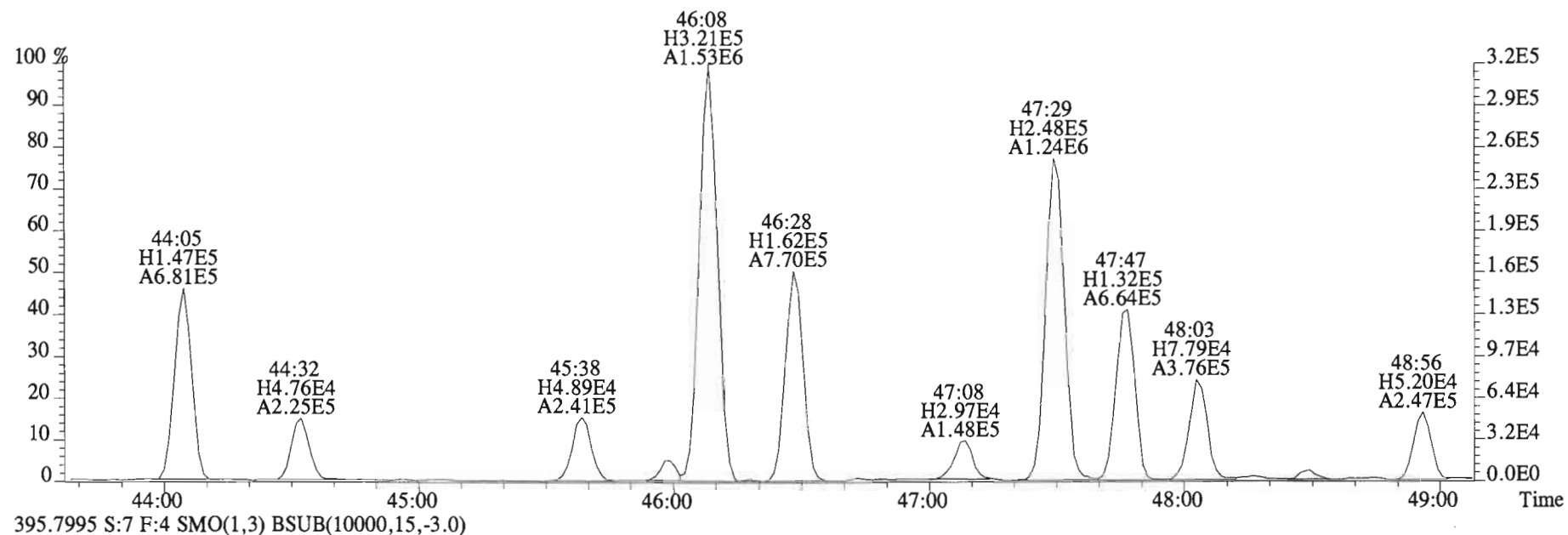
File:150226E1 #1-555 Acq:26-FEB-2015 18:10:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
371.8817 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1768.0,0.00%,F,F)



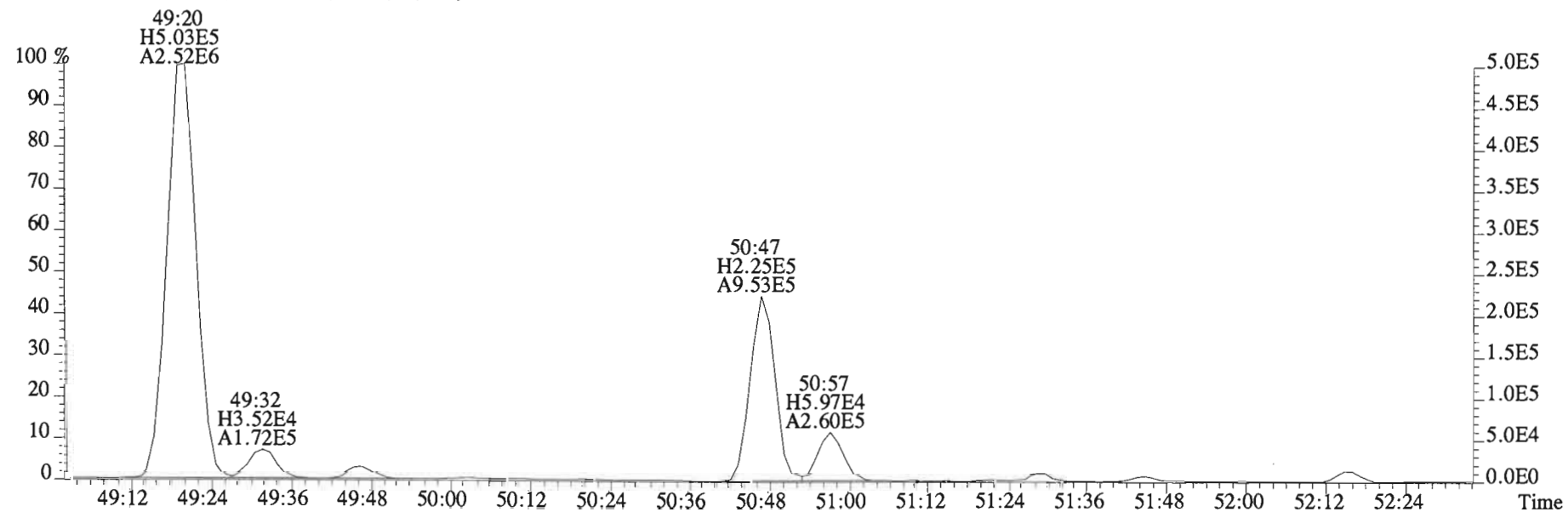
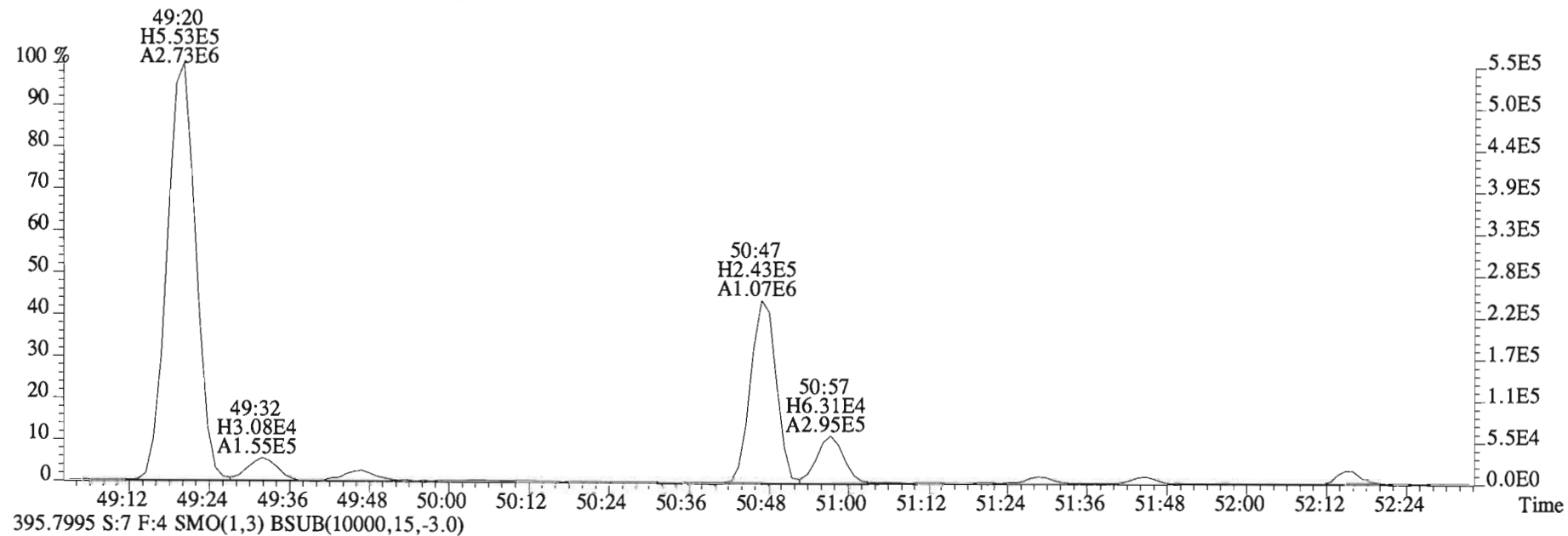
File:150226E1 #1-555 Acq:26-FEB-2015 18:10:48 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
 393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1756.0,0.00%,F,F)



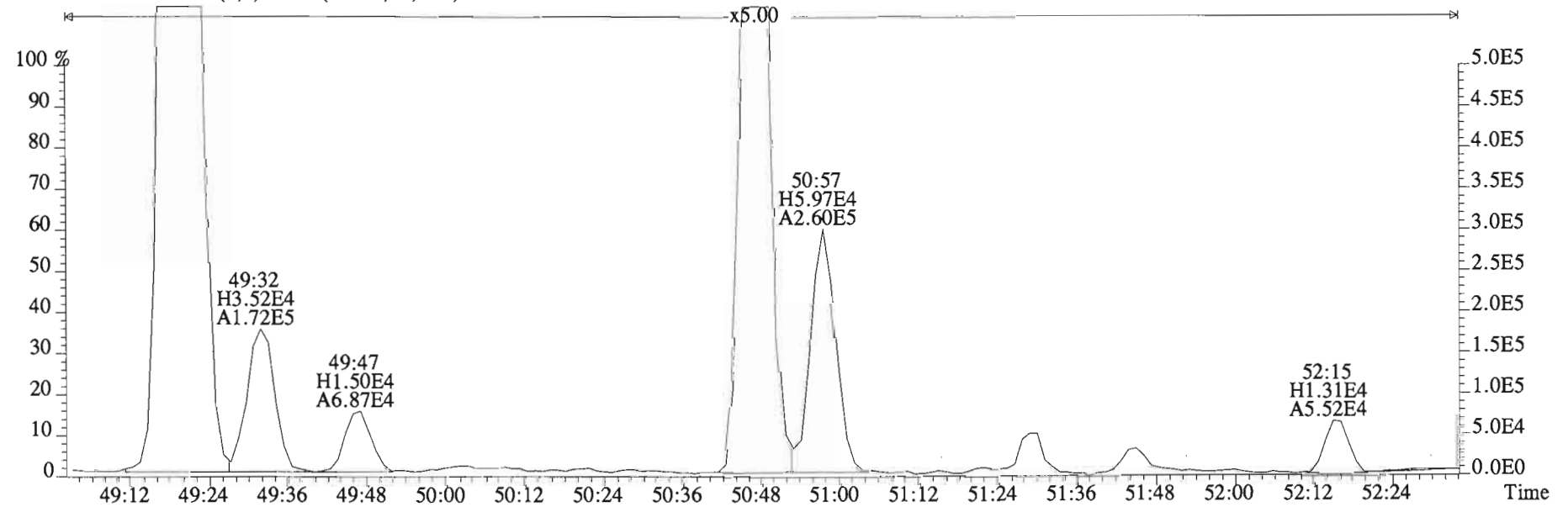
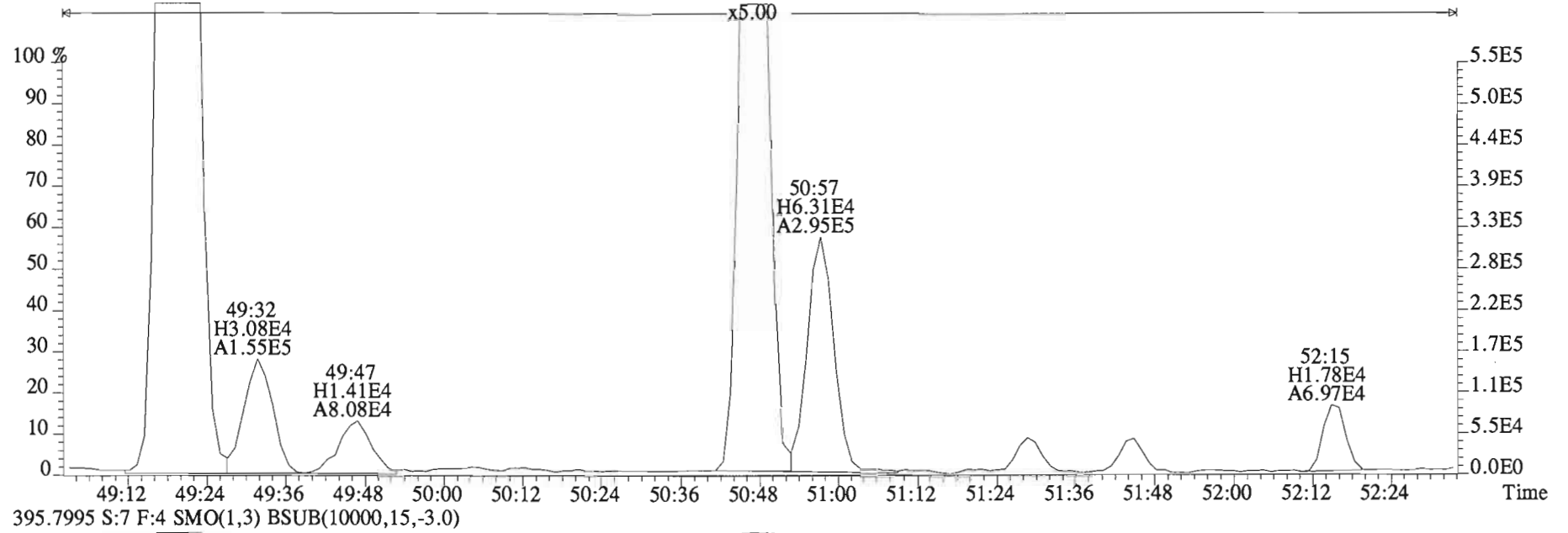
File:150226E1 #1-555 Acq:26-FEB-2015 18:10:48 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
 393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



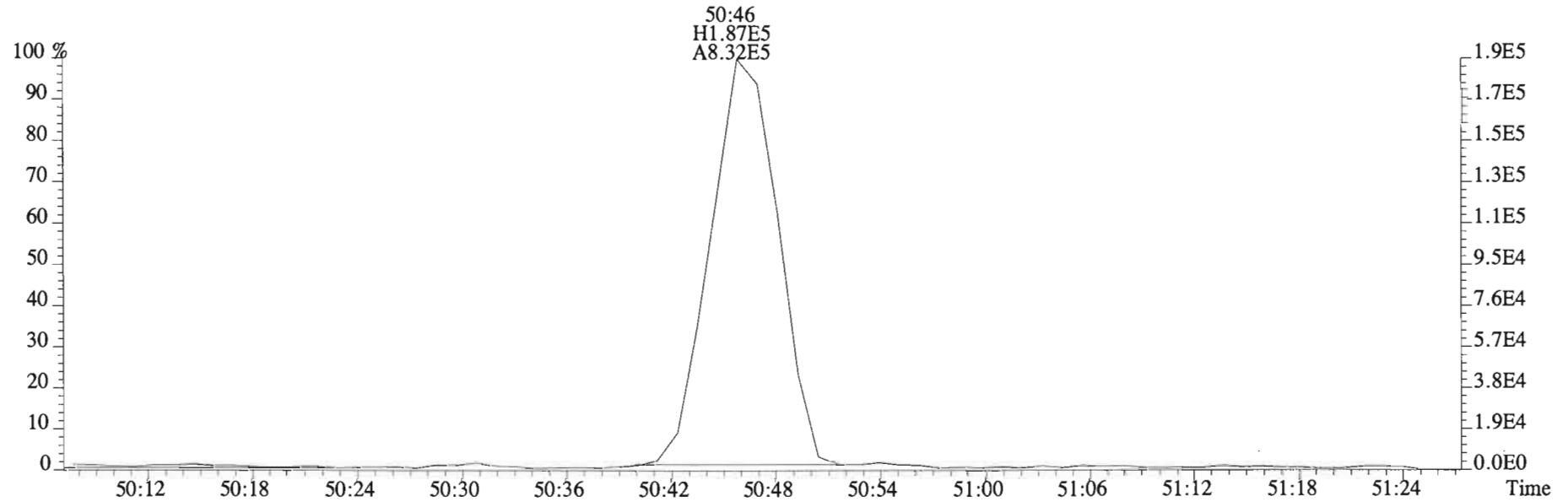
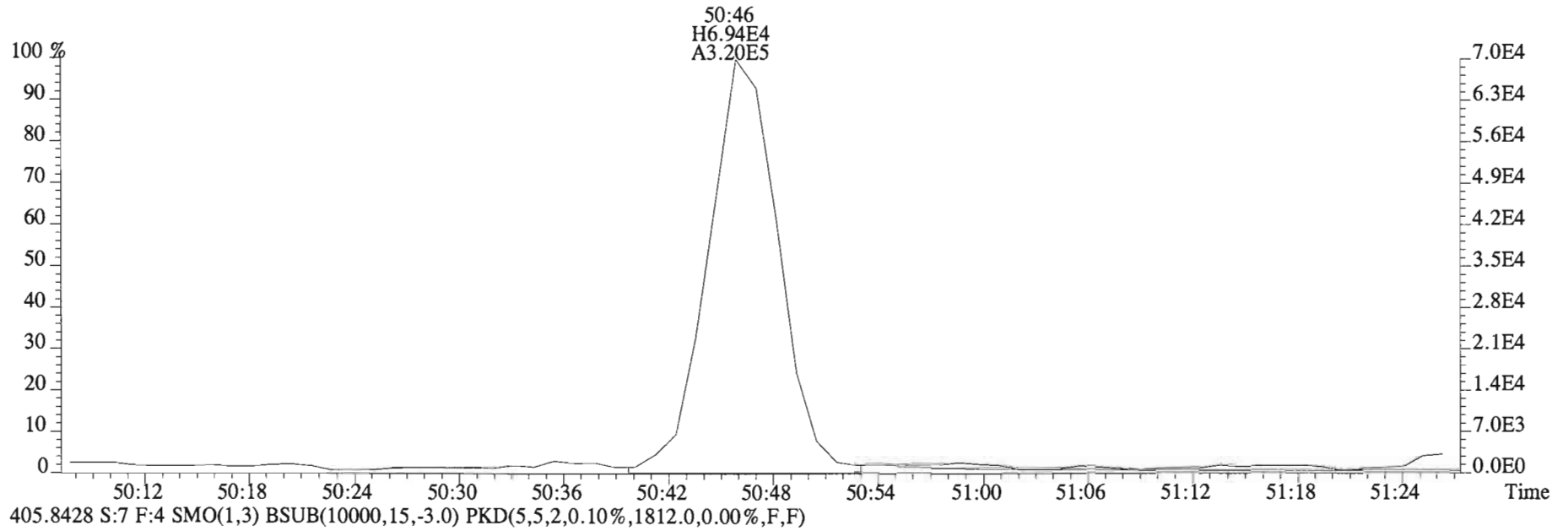
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



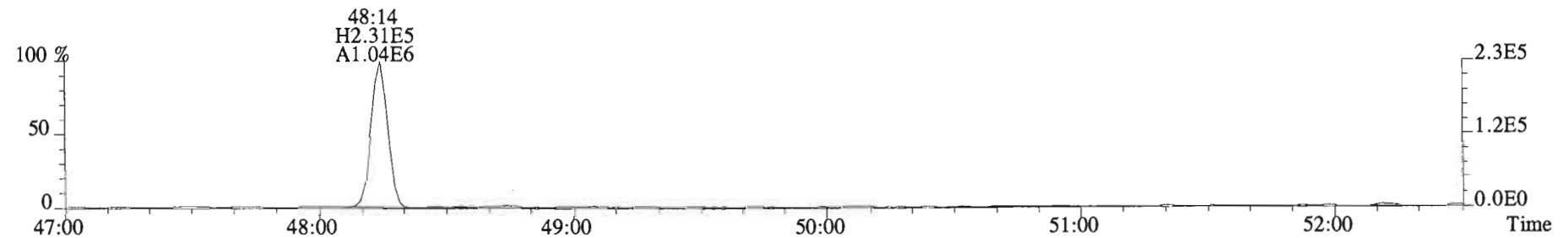
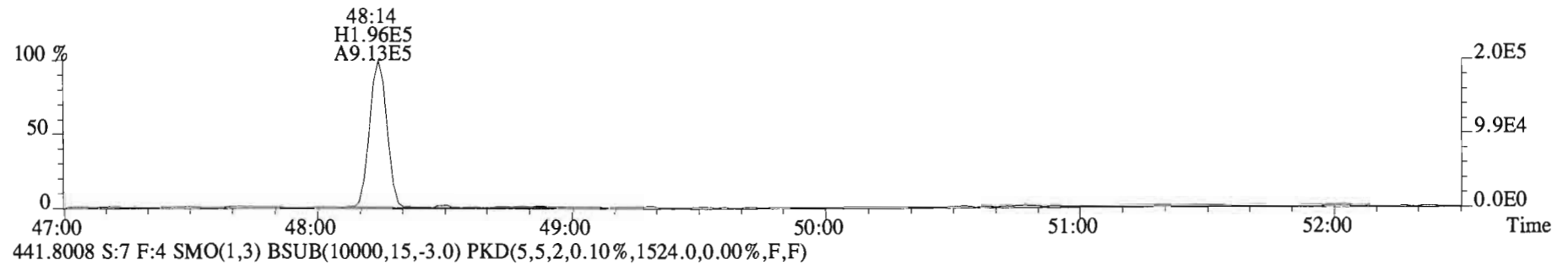
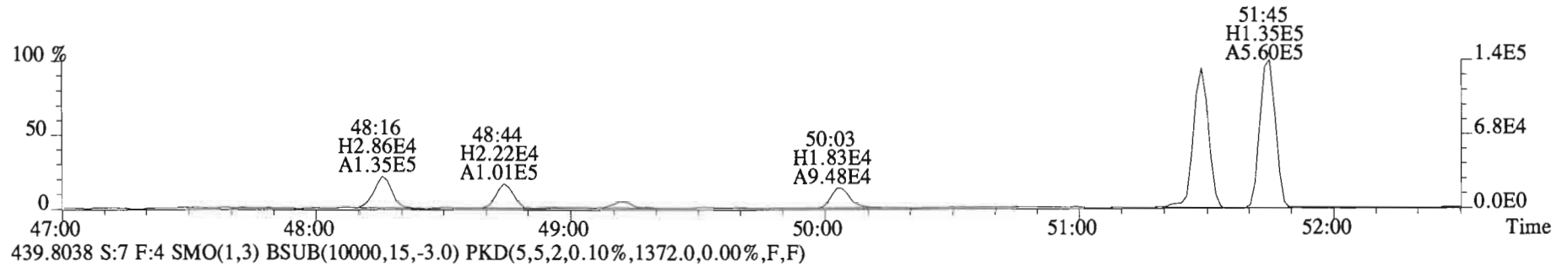
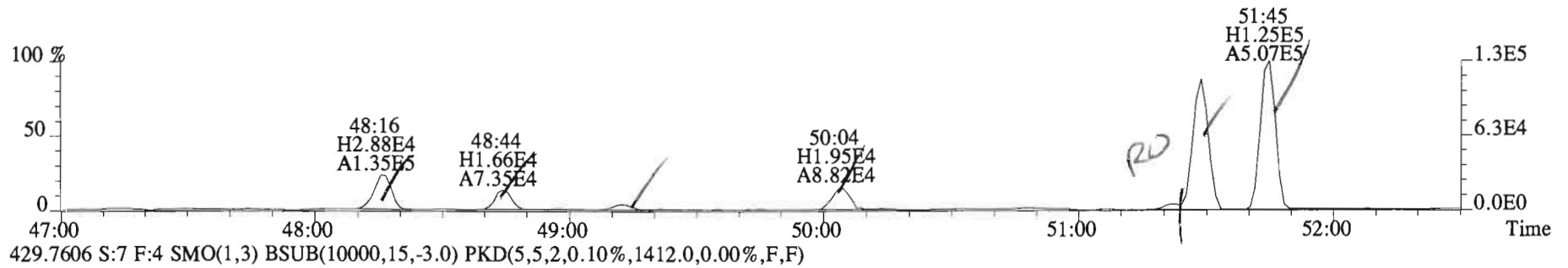
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393.8025 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0)



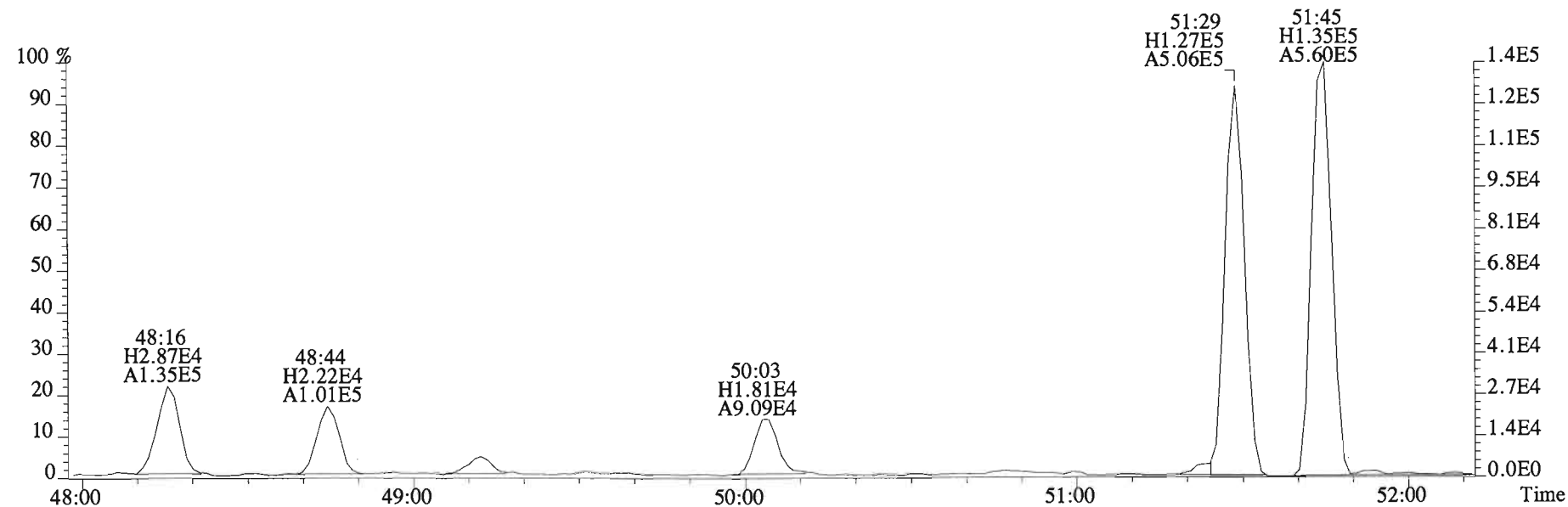
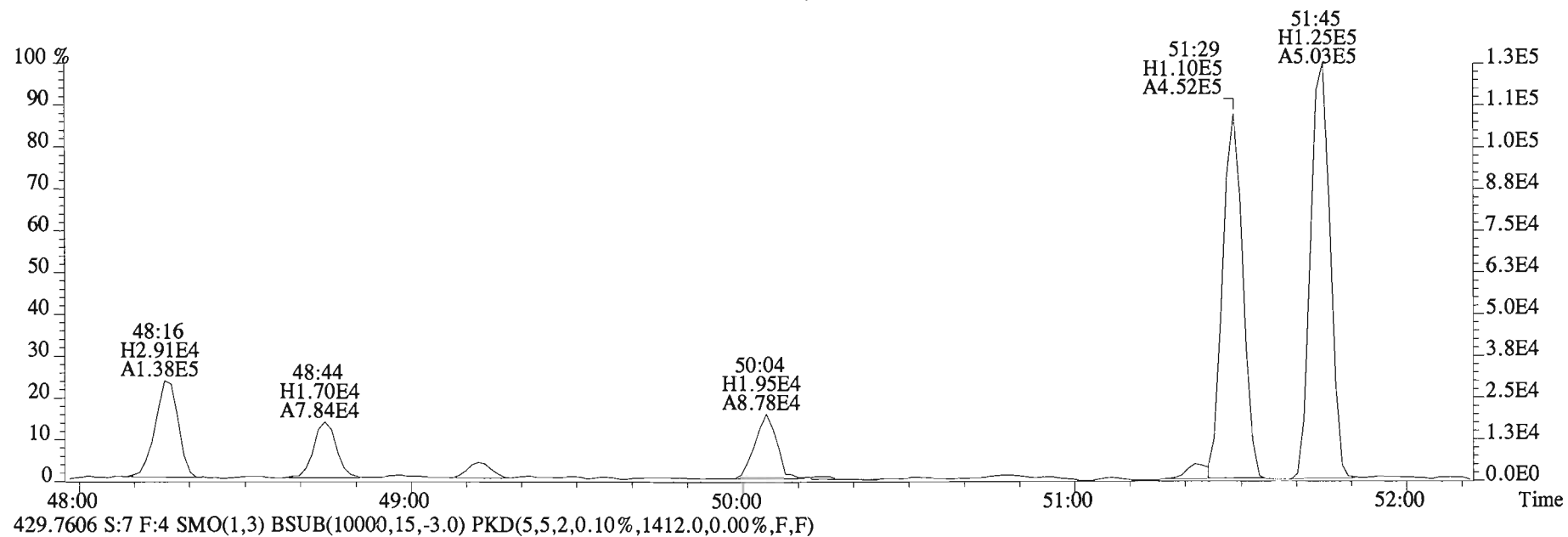
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
403.8457 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1520.0,0.00%,F,F)



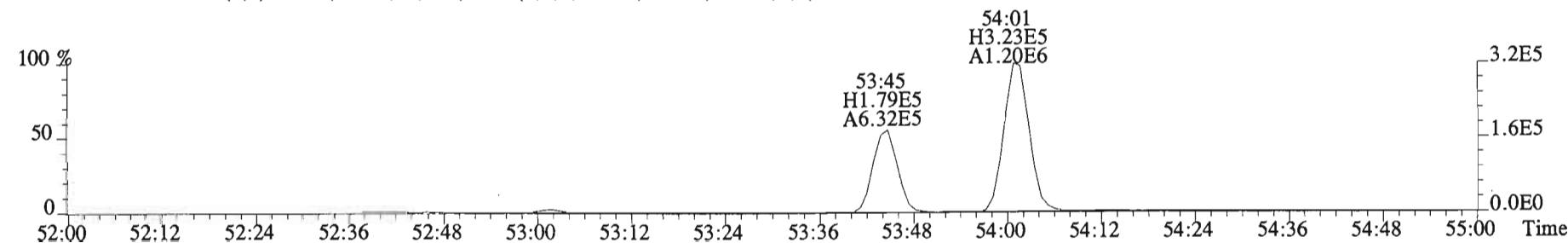
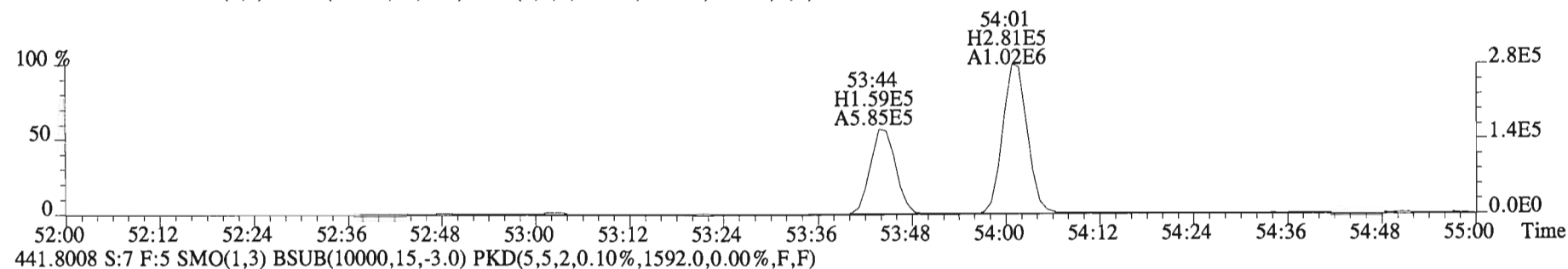
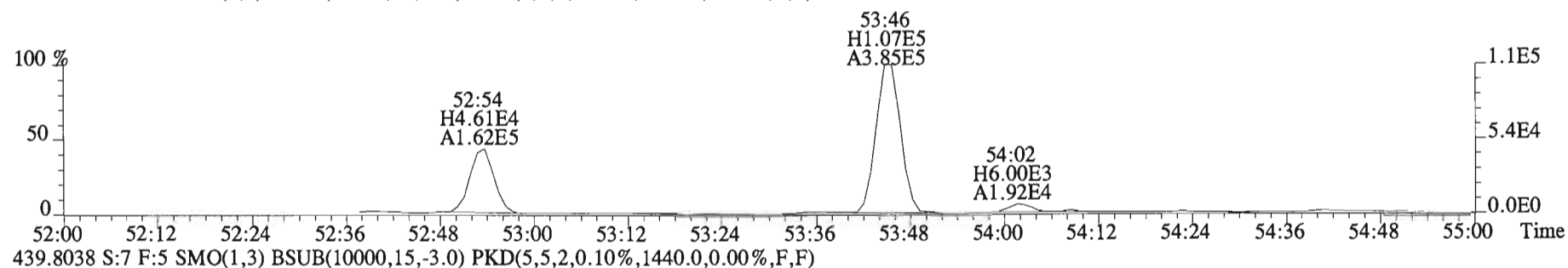
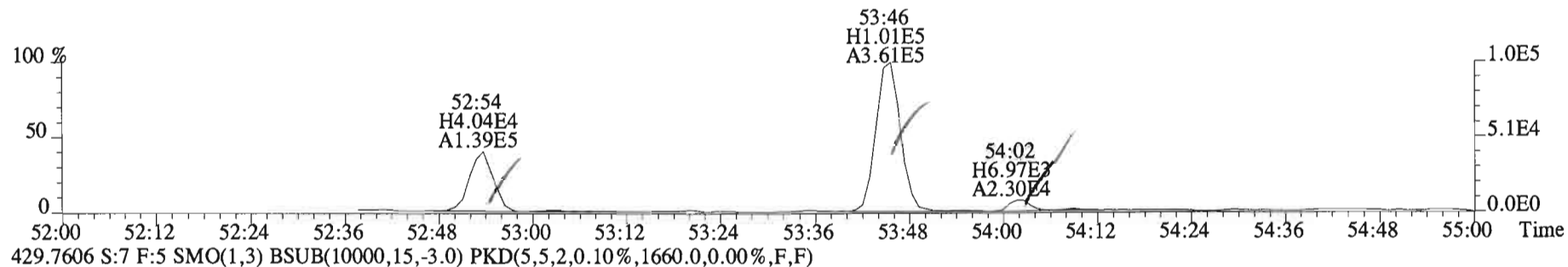
File:150226E1 #1-555 Acq:26-FEB-2015 18:10:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
427.7635 S:7 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1420.0,0.00%,F,F)



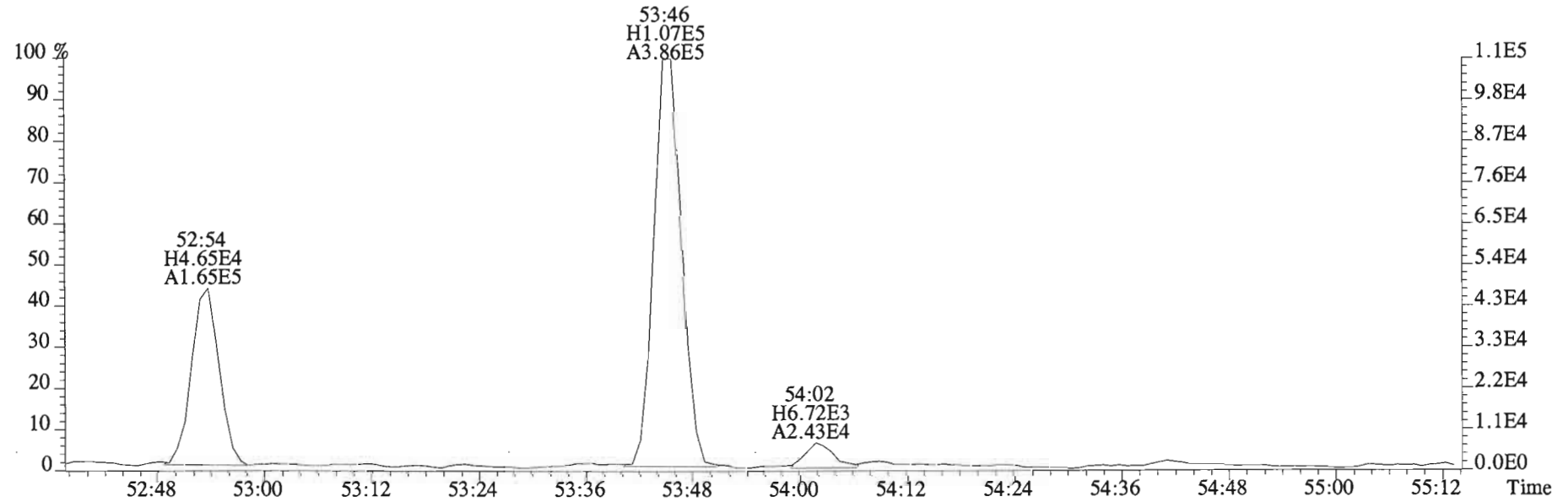
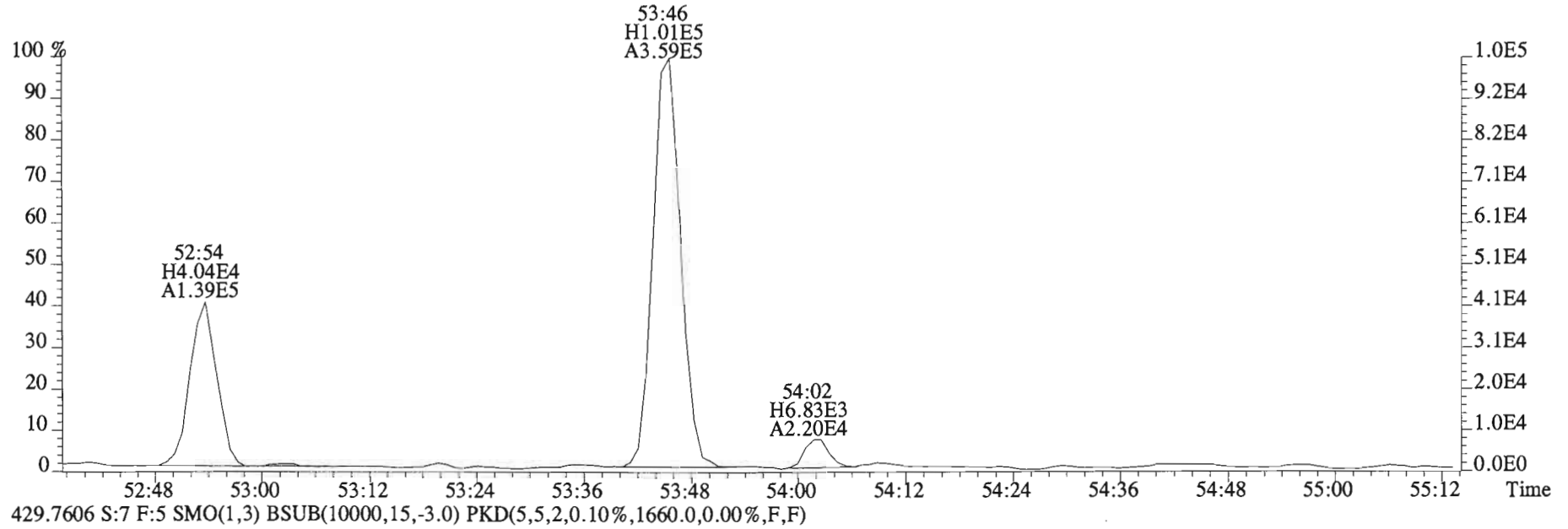
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
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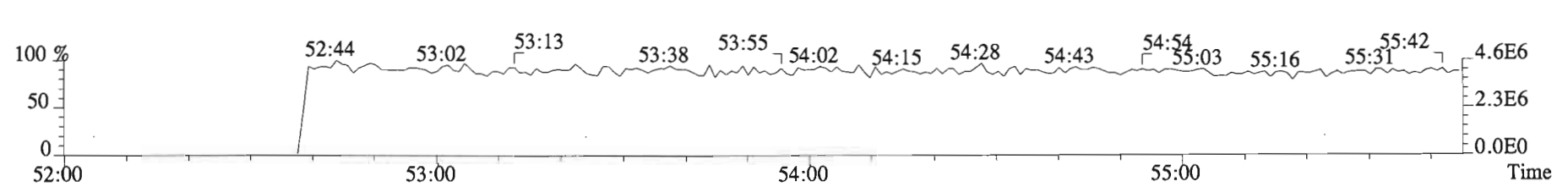
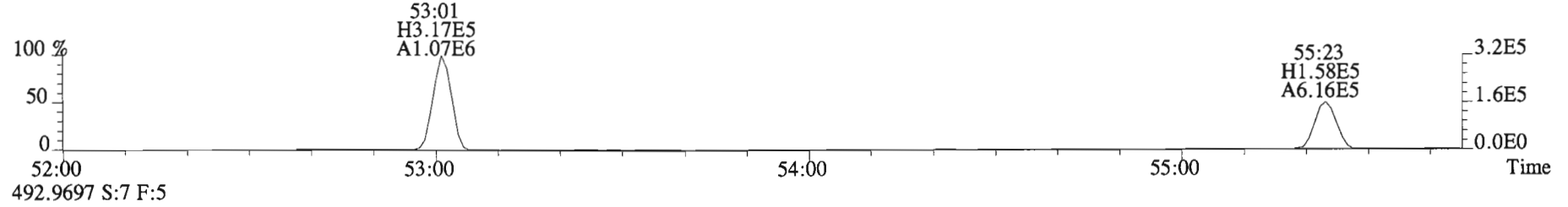
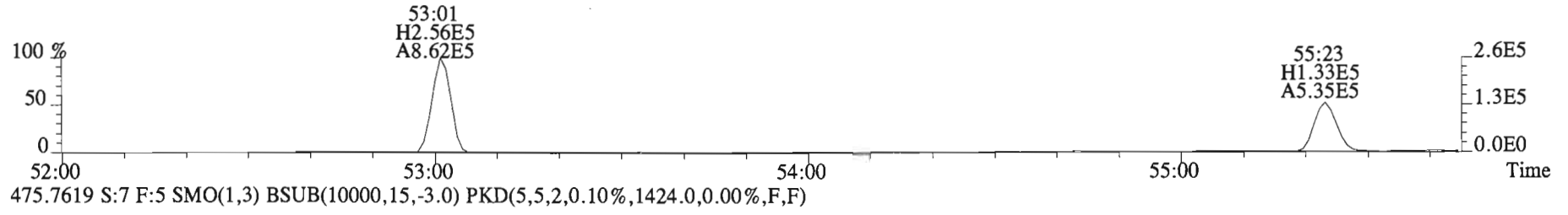
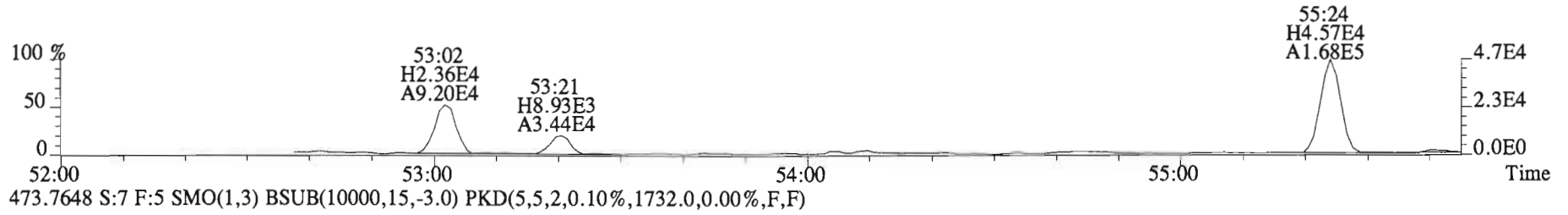
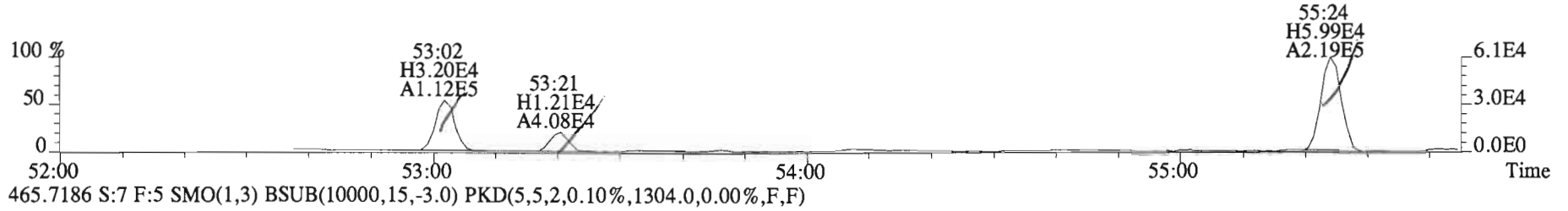
File:150226E1 #1-429 Acq:26-FEB-2015 18:10:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
427.7635 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1496.0,0.00%,F,F)



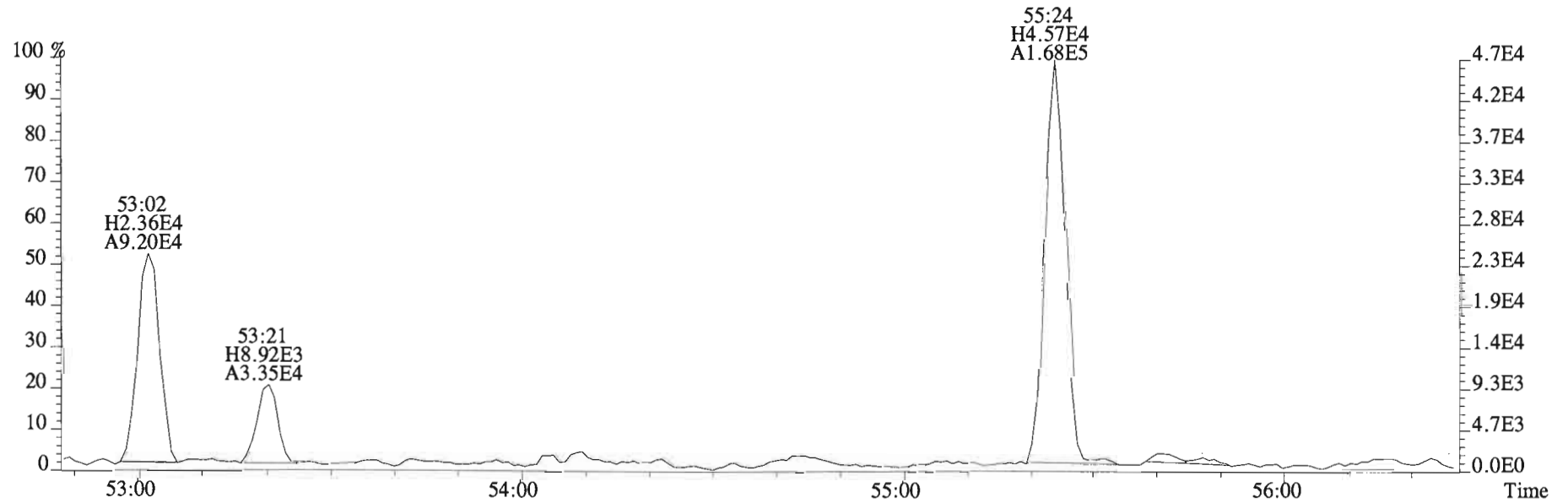
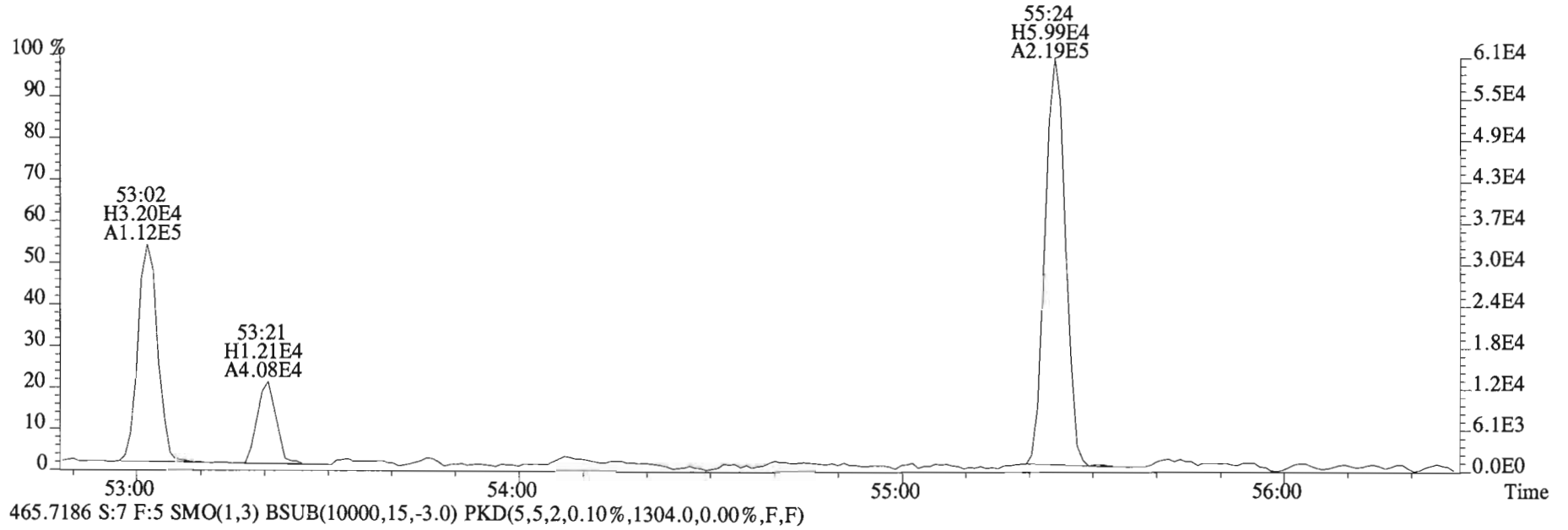
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Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
427.7635 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1496.0,0.00%,F,F)



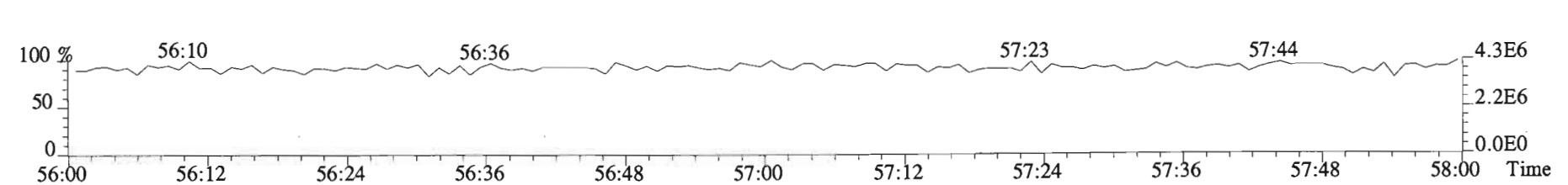
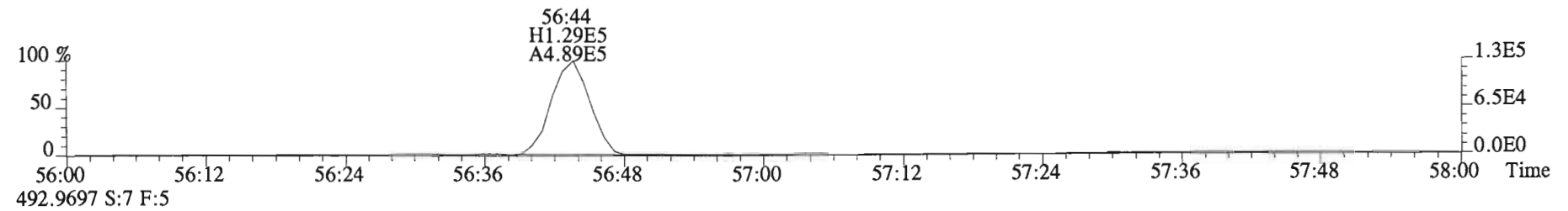
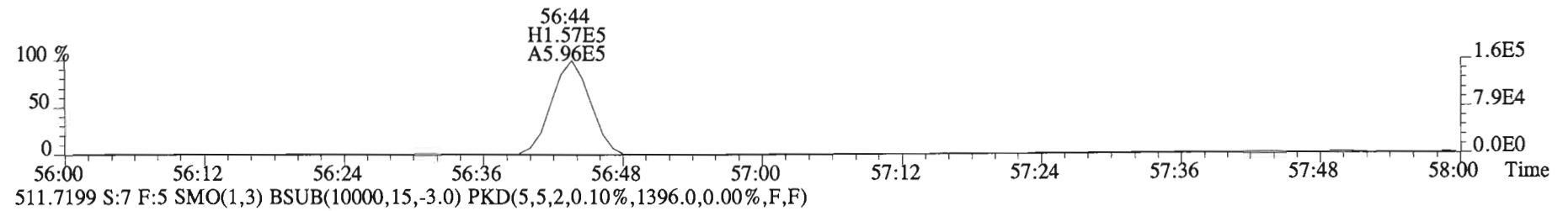
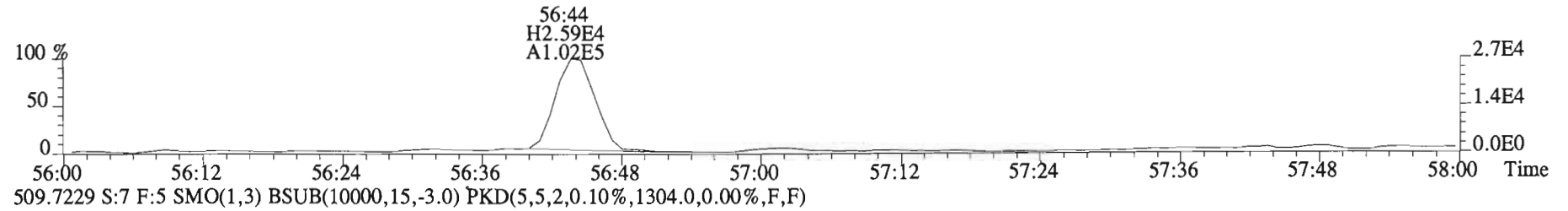
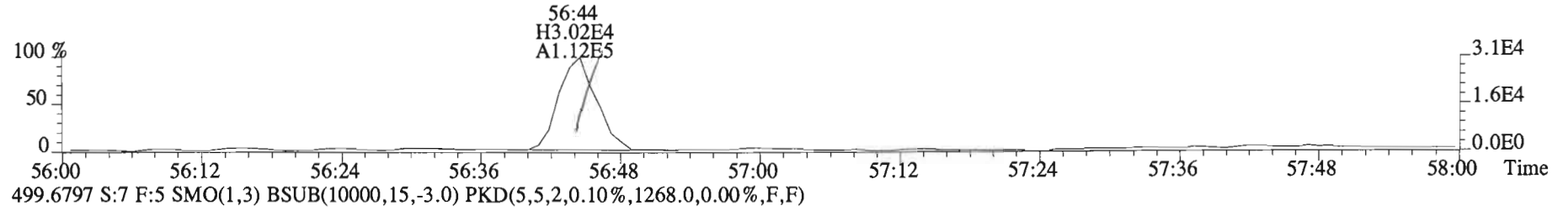
File:150226E1 #1-429 Acq:26-FEB-2015 18:10:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
463.7216 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1440.0,0.00%,F,F)



File:150226E1 #1-429 Acq:26-FEB-2015 18:10:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
463.7216 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1440.0,0.00%,F,F)



File:150226E1 #1-429 Acq:26-FEB-2015 18:10:48 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG-8 Text:1500166-02@10X ST-FD-02-20150210-W Exp:PCB_ZB1
497.6826 S:7 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1272.0,0.00%,F,F)



Client ID: ST-OF-01-20150210-W
Lab ID: 1500166-03@20X

Filename: 150227E1 S:3 Acq:27-FEB-15 14:44:54
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.011

ConCal: ST150227E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	8.84e+04	3.34	y 16:11	1.33	35.2	*	*	2.5	*	1.000	0.997-1.007	
Mono	PCB-2	*	*	n NotF η	1.30	*	*	1530	2.5	21.3	*	0.983-0.993	
Mono	PCB-3	1.03e+05	3.54	y 18:48	1.30	42.0	*	*	2.5	*	1.000	0.996-1.006	
Di	PCB-4/10	*	*	n NotF η	1.67	*	*	8630	2.5	134	*	0.997-1.007	
Di	PCB-7/9	*	*	n NotF η	1.25	*	*	8630	2.5	106	*	0.864-0.872	
Di	PCB-6	*	*	n NotF η	1.24	*	*	8630	2.5	108	*	0.888-0.897	
Di	PCB-5/8	3.77e+05	1.55	y 23:00	1.27	187	*	*	2.5	*	0.909	0.905-0.915	
Di	PCB-14	*	*	n NotF η	1.47	*	*	8630	2.5	97.0	*	0.948-0.958	
Di	PCB-11	3.02e+05	1.50	y 25:19	1.28	140	*	*	2.5	*	1.000	0.995-1.005	
Di	PCB-12/13	*	*	n NotF η	1.27	*	*	8630	2.5	113	*	1.011-1.021	
Di	PCB-15	6.25e+05	1.46	y 26:01	1.44	257	*	*	2.5	*	1.028	1.023-1.031	
Tri	PCB-19	*	*	n NotF η	1.18	*	*	1730	2.5	29.6	*	0.996-1.006	
Tri	PCB-30	*	*	n NotF η	1.87	*	*	1730	2.5	18.7	*	1.033-1.043	
Tri	PCB-18	3.65e+05	1.21	n 25:56	0.89	268	R	*	2.5	*	0.955	0.949-0.959	
Tri	PCB-17	1.27e+05	1.23	n 26:06	0.96	86.4	R	*	2.5	*	0.961	0.956-0.966	
Tri	PCB-24/27	7.97e+04	1.12	y 26:39	1.30	40.0	*	*	2.5	*	0.981	0.977-0.987	
Tri	PCB-16/32	3.86e+05	1.18	y 27:11	1.05	240	*	*	2.5	*	1.001	0.996-1.006	
Tri	PCB-34	*	*	n NotF η	1.30	*	*	2290	2.5	31.1	*	0.955-0.965	
Tri	PCB-23	*	*	n NotF η	1.21	*	*	2290	2.5	33.4	*	0.958-0.968	
Tri	PCB-29	*	*	n NotF η	1.21	*	*	2290	2.5	33.4	*	0.967-0.977	
Tri	PCB-26	1.52e+05	1.13	y 28:32	1.24	89.3	*	*	2.5	*	0.979	0.974-0.984	
Tri	PCB-25	6.86e+04	0.93	y 28:43	1.10	45.6	*	*	2.5	*	0.985	0.980-0.990	
Tri	PCB-31	8.41e+05	1.14	y 29:03	1.25	490	*	*	2.5	*	0.996	0.992-1.002	
Tri	PCB-28	1.06e+06	1.10	y 29:10	1.24	625	*	*	2.5	*	1.000	0.996-1.006	
Tri	PCB-20/21/33	5.00e+05	1.00	y 29:47	1.16	315	*	*	2.5	*	1.021	1.016-1.026	
Tri	PCB-22	3.70e+05	1.05	y 30:12	1.16	232	*	*	2.5	*	1.036	1.032-1.042	
Tri	PCB-36	*	*	n NotF η	1.30	*	*	2290	2.5	32.1	*	0.929-0.939	
Tri	PCB-39	*	*	n NotF η	1.26	*	*	2290	2.5	33.1	*	0.943-0.953	
Tri	PCB-38	*	*	n NotF η	1.24	*	*	2290	2.5	33.6	*	0.967-0.977	
Tri	PCB-35	*	*	n NotF η	1.26	*	*	2290	2.5	33.2	*	0.982-0.992	
Tri	PCB-37	5.16e+05	1.12	y 33:02	1.35	258	*	*	2.5	*	1.000	0.996-1.006	
Tetra	PCB-54	*	*	n NotF η	1.02	*	*	2380	2.5	36.3	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotF η	0.78	*	*	2380	2.5	47.8	*	1.037-1.047	
Tetra	PCB-53	1.68e+05	0.92	n 29:51	1.14	135	R	*	2.5	*	0.947	0.941-0.951	
Tetra	PCB-51	4.70e+04	0.67	y 30:10	1.16	37.0	*	*	2.5	*	0.957	0.952-0.962	
Tetra	PCB-45	1.18e+05	0.86	y 30:36	1.04	104	*	*	2.5	*	0.970	0.965-0.975	
Tetra	PCB-46	6.26e+04	0.78	y 31:06	0.95	60.3	*	*	2.5	*	0.986	0.981-0.991	

Integrations by:

Analyst: Dms

Date: 3/2/15

Reviewed by: CI

Date: 3/2/15

Client ID: ST-OF-01-20150210-W
Lab ID: 1500166-03@20X

Filename: 150227E1 S:3 Acq:27-FEB-15 14:44:54
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.011

ConCal: ST150227E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	2.10e+06	0.76	y 31:33	1.29	1490		*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-73	*	*	n NotF η	1.41	*		2380	2.5	35.3	*	0.999-1.009	
Tetra	PCB-43/49	7.20e+05	0.80	y 31:51	1.14	578		*	2.5	*	1.010	1.005-1.015	
Tetra	PCB-47	2.69e+05	0.82	y 32:04	1.20	188		*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-48/75	1.28e+05	1.05	n 32:11	1.33	80.9	R	*	2.5	*	1.004	0.999-1.009	
Tetra	PCB-65	*	*	n NotF η	1.32	*		2380	2.5	41.0	*	1.007-1.017	
Tetra	PCB-62	*	*	n NotF η	1.36	*		2380	2.5	39.8	*	1.011-1.021	
Tetra	PCB-44	9.41e+05	0.72	y 32:50	0.87	904		*	2.5	*	1.024	1.020-1.030	
Tetra	PCB-42/59	3.29e+05	0.87	y 33:05	1.24	223		*	2.5	*	1.032	1.027-1.037	
Tetra	PCB-41/64/71/72	1.08e+06	0.71	y 33:40	1.34	676		*	2.5	*	1.050	1.045-1.055	
Tetra	PCB-68	*	*	n NotF η	1.61	*		2380	2.5	33.5	*	1.053-1.063	
Tetra	PCB-40	1.38e+05	0.61	n 34:08	0.86	135	R	*	2.5	*	1.065	1.061-1.071	
Tetra	PCB-57	*	*	n NotF η	1.12	*		2380	2.5	33.5	*	0.965-0.975	
Tetra	PCB-67	*	*	n NotF η	1.09	*		2380	2.5	34.3	*	0.974-0.984	
Tetra	PCB-58	*	*	n NotF η	1.14	*		2380	2.5	33.0	*	0.977-0.987	
Tetra	PCB-63	*	*	n NotF η	1.16	*		2380	2.5	32.2	*	0.981-0.991	
Tetra	PCB-74	8.12e+05	0.80	y 35:22	1.21	439		*	2.5	*	0.995	0.989-0.999	
Tetra	PCB-61/70	2.51e+06	0.78	y 35:34	1.13	1460		*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-76/66	1.49e+06	0.86	y 35:47	1.18	829		*	2.5	*	1.007	1.000-1.010	
Tetra	PCB-80	*	*	n NotF η	1.32	*		2380	2.5	23.9	*	0.995-1.005	
Tetra	PCB-55	6.18e+04	0.83	y 36:16	1.23	30.2		*	2.5	*	1.008	1.004-1.014	
Tetra	PCB-56/60	8.92e+05	0.73	y 36:48	1.11	485		*	2.5	*	1.023	1.018-1.028	
Tetra	PCB-79	7.70e+04	0.66	y 37:53	1.16	39.9		*	2.5	*	1.053	1.048-1.058	
Tetra	PCB-78	*	*	n NotF η	1.18	*		2380	2.5	29.6	*	0.982-0.992	
Tetra	PCB-81	1.60e+04	1.23	n 39:03	1.29	7.80	R	*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-77	2.05e+05	0.86	y 39:41	1.29	105		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-104	*	*	n NotF η	1.26	*		1770	2.5	48.1	*	0.996-1.006	
Penta	PCB-96	3.87e+04	1.05	n 33:59	1.09	34.2	R	*	2.5	*	1.040	1.034-1.044	
Penta	PCB-103	*	*	n NotF η	0.97	*		1770	2.5	62.7	*	1.051-1.061	
Penta	PCB-100	*	*	n NotF η	0.96	*		1770	2.5	63.0	*	1.061-1.071	
Penta	PCB-94	*	*	n NotF η	1.13	*		1770	2.5	59.9	*	0.980-0.990	
Penta	PCB-95/98/102	3.94e+06	1.64	y 35:51	1.29	3430		*	2.5	*	1.000	0.994-1.004	
Penta	PCB-93	*	*	n NotF η	1.06	*		1770	2.5	63.8	*	0.998-1.008	
Penta	PCB-88/91	5.61e+05	1.45	y 36:16	1.12	559		*	2.5	*	1.012	1.006-1.016	
Penta	PCB-121	*	*	n NotF η	1.76	*		1770	2.5	38.5	*	1.009-1.019	
Penta	PCB-84/92	1.88e+06	1.51	y 37:10	1.07	1850		*	2.5	*	0.990	0.985-0.995	
Penta	PCB-89	*	*	n NotF η	1.00	*		1770	2.5	55.5	*	0.990-1.000	

Analyst: DMS

Date: 3/2/15

Client ID: ST-OF-01-20150210-W
Lab ID: 1500166-03@20X

Filename: 150227E1 S:3 Acq:27-FEB-15 14:44:54
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.011

ConCal: ST150227E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	4.52e+06	1.66	y 37:32	1.21	3950		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-113	*	*	n NotF η	1.34	*		1770	2.5	41.3	*	1.002-1.012	
Penta	PCB-99	1.74e+06	1.60	y 37:53	1.25	1470		*	2.5	*	1.009	1.004-1.014	
Penta	PCB-119	1.05e+05	1.67	y 38:19	1.88	65.0		*	2.5	*	0.987	0.982-0.992	
Penta	PCB-108/112	2.49e+05	1.61	y 38:30	1.41	206		*	2.5	*	0.992	0.986-0.996	
Penta	PCB-83	*	*	n NotF η	1.66	*		1770	2.5	40.9	*	0.990-1.000	
Penta	PCB-97	1.33e+06	1.50	y 38:51	1.30	1190		*	2.5	*	1.001	0.995-1.005	
Penta	PCB-86	*	*	n NotF η	1.03	*		1770	2.5	65.8	*	0.999-1.009	
Penta	PCB-87/117/125	1.98e+06	1.56	y 39:08	1.59	1450		*	2.5	*	1.008	1.002-1.012	
Penta	PCB-111/115	9.33e+04	1.61	y 39:17	1.86	58.4		*	2.5	*	1.012	1.006-1.016	
Penta	PCB-85/116	6.93e+05	1.45	y 39:22	1.39	579		*	2.5	*	1.014	1.010-1.020	
Penta	PCB-120	1.87e+04	0.95	n 39:35	1.99	11.0	R	*	2.5	*	1.020	1.016-1.026	
Penta	PCB-110	8.41e+06	1.60	y 39:46	1.70	5750		*	2.5	*	1.024	1.019-1.029	
Penta	PCB-82	4.69e+05	1.71	y 40:24	0.74	494		*	2.5	*	0.976	0.971-0.981	
Penta	PCB-124	3.02e+05	1.77	y 41:05	1.30	181		*	2.5	*	0.993	0.988-0.998	
Penta	PCB-107/109	3.20e+05	1.68	y 41:15	1.34	187		*	2.5	*	0.997	0.991-1.001	
Penta	PCB-123	7.64e+04	1.53	y 41:24	1.25	47.7		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-106/118	5.26e+06	1.58	y 41:34	1.29	3380		*	2.5	*	1.000	0.996-1.006	
Penta	PCB-114	8.57e+04	1.83	n 42:13	1.45	47.0	R	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-122	5.82e+04	1.20	n 42:21	1.22	38.0	R	*	2.5	*	1.003	0.999-1.009	
Penta	PCB-105	2.28e+06	1.70	y 43:05	1.56	1250		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n NotF η	1.31	*		2420	2.5	55.0	*	0.995-1.005	
Penta	PCB-126	5.10e+04	1.87	n 45:19	1.41	30.7	R	*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-155	*	*	n NotF η	1.20	*		1700	2.5	35.7	*	0.966-1.006	
Hexa	PCB-150	*	*	n NotF η	1.13	*		1700	2.5	38.0	*	1.030-1.040	
Hexa	PCB-152	*	*	n NotF η	1.17	*		1700	2.5	36.7	*	1.043-1.053	
Hexa	PCB-145	*	*	n NotF η	1.09	*		1700	2.5	39.2	*	1.055-1.065	
Hexa	PCB-136	9.94e+05	1.27	y 39:35	1.14	771		*	2.5	*	1.068	1.063-1.073	
Hexa	PCB-148	*	*	n NotF η	0.82	*		1700	2.5	52.4	*	1.066-1.076	
Hexa	PCB-154	4.21e+04	0.87	n 40:11	0.89	41.8	R	*	2.5	*	1.084	1.079-1.089	
Hexa	PCB-151	1.27e+06	1.25	y 40:49	0.82	1370		*	2.5	*	1.101	1.097-1.107	
Hexa	PCB-135	7.48e+05	1.26	y 41:01	0.80	831		*	2.5	*	1.106	1.101-1.113	
Hexa	PCB-144	3.38e+05	1.24	y 41:08	0.86	349		*	2.5	*	1.109	1.105-1.116	
Hexa	PCB-147	9.76e+04	1.39	y 41:17	0.78	111		*	2.5	*	1.114	1.108-1.120	
Hexa	PCB-139/149	4.91e+06	1.22	y 41:31	0.87	4990		*	2.5	*	1.120	1.115-1.127	
Hexa	PCB-140	*	*	n NotF η	0.78	*		1700	2.5	55.1	*	1.120-1.132	
Hexa	PCB-134/143	3.83e+05	1.33	y 42:10	0.93	318		*	2.5	*	0.975	0.970-0.980	

Analyst: DMS

Date: 3/2/15

Client ID: ST-OF-01-20150210-W
Lab ID: 1500166-03@20X

Filename: 150227E1 S:3 Acq:27-FEB-15 14:44:54
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.011

ConCal: ST150227E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	1.78e+05	1.38	y 42:27	0.91	151	*	2.5	*	*	0.982	0.977-0.987	
Hexa	PCB-131	3.95e+03	1.22	y 42:39	0.85	3.60	*	2.5	*	*	0.986	0.981-0.991	
Hexa	PCB-146/165	1.13e+06	1.26	y 42:51	1.08	805	*	2.5	*	*	0.991	0.986-0.996	
Hexa	PCB-132/161	2.84e+06	1.19	y 43:06	1.12	1960	*	2.5	*	*	0.997	0.992-1.002	
Hexa	PCB-153	6.18e+06	1.30	y 43:14	1.20	3980	*	2.5	*	*	1.000	0.996-1.006	
Hexa	PCB-168	*	*	n NotF η	1.36	*		2140	2.5	34.5	*	1.000-1.010	
Hexa	PCB-141	1.44e+06	1.25	y 43:59	1.16	1090	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-137	2.95e+05	1.23	y 44:21	1.18	220	*	2.5	*	*	1.009	1.004-1.014	
Hexa	PCB-130	4.44e+05	1.10	y 44:27	0.92	423	*	2.5	*	*	1.011	1.006-1.016	
Hexa	PCB-138/163/164	9.21e+06	1.24	y 44:50	1.38	5960	*	2.5	*	*	1.001	0.996-1.006	
Hexa	PCB-158/160	1.18e+06	1.17	y 45:03	1.48	717	*	2.5	*	*	1.006	1.001-1.011	
Hexa	PCB-129	3.58e+05	1.12	y 45:19	0.99	324	*	2.5	*	*	1.012	1.007-1.017	
Hexa	PCB-166	*	*	n NotF η	1.14	*		2140	2.5	40.0	*	0.988-0.998	
Hexa	PCB-159	*	*	n NotF η	1.22	*		2140	2.5	37.4	*	0.995-1.005	
Hexa	PCB-128/162	1.53e+06	1.37	y 46:22	1.03	1050	*	2.5	*	*	1.006	1.002-1.012	
Hexa	PCB-167	3.78e+05	1.32	y 46:47	1.18	229	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-156	8.81e+05	1.22	y 48:05	1.27	484	*	2.5	*	*	1.001	0.995-1.005	
Hexa	PCB-157	2.39e+05	1.23	y 48:20	1.22	133	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-169	*	*	n NotF η	1.07	*		2140	2.5	38.0	*	0.995-1.005	
Hepta	PCB-188	*	*	n NotF η	1.52	*		1840	2.5	26.0	*	0.996-1.006	
Hepta	PCB-184	*	*	n NotF η	1.34	*		1840	2.5	29.6	*	1.006-1.016	
Hepta	PCB-179	1.01e+06	1.07	y 44:05	1.39	814	*	2.5	*	*	1.029	1.024-1.034	
Hepta	PCB-176	3.43e+05	1.19	y 44:33	1.45	263	*	2.5	*	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotF η	1.46	*		1840	2.5	27.2	*	1.049-1.059	
Hepta	PCB-178	3.80e+05	1.00	y 45:39	1.07	396	*	2.5	*	*	1.065	1.061-1.071	
Hepta	PCB-175	7.85e+04	1.13	y 46:00	1.05	83.9	*	2.5	*	*	1.073	1.069-1.079	
Hepta	PCB-182/187	2.42e+06	1.11	y 46:09	1.14	2380	*	2.5	*	*	1.077	1.073-1.083	
Hepta	PCB-183	1.14e+06	1.07	y 46:30	1.22	1040	*	2.5	*	*	1.085	1.080-1.090	
Hepta	PCB-185	2.29e+05	0.93	y 47:09	1.40	194	*	2.5	*	*	0.956	0.950-0.960	
Hepta	PCB-174	1.96e+06	1.10	y 47:30	1.29	1810	*	2.5	*	*	0.963	0.958-0.968	
Hepta	PCB-181	*	*	n NotF η	1.35	*		1840	2.5	27.4	*	0.960-0.970	
Hepta	PCB-177	1.07e+06	1.00	y 47:47	1.27	1010	*	2.5	*	*	0.968	0.963-0.973	
Hepta	PCB-171	5.57e+05	0.99	y 48:05	1.46	455	*	2.5	*	*	0.975	0.969-0.979	
Hepta	PCB-173	4.52e+04	1.49	n 48:30	1.10	48.8	R	*	2.5	*	0.983	0.978-0.988	
Hepta	PCB-172	3.53e+05	1.09	y 48:57	1.35	311	*	2.5	*	*	0.992	0.987-0.997	
Hepta	PCB-192	*	*	n NotF η	1.74	*		1840	2.5	21.3	*	0.991-1.001	
Hepta	PCB-180	4.48e+06	1.07	y 49:21	1.45	3680	*	2.5	*	*	1.000	0.995-1.005	

Analyst: DMS

Date: 3/2/15

Client ID: ST-OF-01-20150210-W
Lab ID: 1500166-03@20X

Filename: 150227E1 S:3 Acq:27-FEB-15 14:44:54
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.011

ConCal: ST150227E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	2.89e+05	1.07	y 49:33	1.85	186		*	2.5	*	1.004	0.999-1.009	
Hepta	PCB-191	1.29e+05	1.07	y 49:48	1.86	82.3		*	2.5	*	1.009	1.005-1.015	
Hepta	PCB-170	1.80e+06	1.15	y 50:48	1.67	1600		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-190	4.72e+05	1.18	y 50:58	2.25	313		*	2.5	*	1.003	0.999-1.009	
Hepta	PCB-189	1.11e+05	1.04	y 52:16	1.67	75.6		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-202	2.17e+05	0.76	y 48:16	1.02	211		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-201	1.46e+05	1.13	n 48:46	1.10	132	R	*	2.5	*	1.011	1.005-1.015	
Octa	PCB-204	*	*	n NotF η	1.07	*		1680	2.5	37.0	*	1.009-1.019	
Octa	PCB-197	2.93e+04	0.64	n 49:13	1.17	24.9	R	*	2.5	*	1.020	1.015-1.025	
Octa	PCB-200	1.46e+05	0.92	y 50:05	1.03	140		*	2.5	*	1.038	1.034-1.044	
Octa	PCB-198	4.41e+04	0.83	y 51:22	0.75	58.0		*	2.5	*	1.065	1.062-1.072	
Octa	PCB-199	7.27e+05	1.04	n 51:28	0.74	971	R	*	2.5	*	1.067	1.064-1.074	
Octa	PCB-196/203	9.57e+05	0.92	y 51:44	0.83	1140		*	2.5	*	1.072	1.070-1.080	
Octa	PCB-195	2.55e+05	0.98	y 52:53	1.14	311		*	2.5	*	0.984	0.979-0.989	
Octa	PCB-194	5.69e+05	0.91	y 53:45	1.29	613		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	4.62e+04	0.87	y 54:01	1.61	39.9		*	2.5	*	1.005	1.001-1.010	
Nona	PCB-208	1.63e+05	1.27	y 53:01	1.01	151		*	2.5	*	1.000	0.995-1.005	
Nona	PCB-207	6.21e+04	1.43	y 53:20	1.03	56.7		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-206	3.78e+05	1.44	y 55:24	0.88	546		*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	2.59e+05	1.24	y 56:45	1.35	228		*	2.5	*	1.000	0.995-1.005	

Analyst: DMJ

Date: 3/2/15

Client ID: ST-OF-01-20150210-W
Lab ID: 1500166-03@20X

Filename: 150227E1 S:3 Acq:27-FEB-15 14:44:54
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.0106 EndCAL: NA

ConCal: ST150227E1-1

Page 2 of

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	1.92e+05	3.34 y	16:11	1.31	77.1750	
Total Di-PCB	1.30e+06	1.55 y	23:00	1.32	583.959	
Total Tri-PCB	4.66e+05	1.12 y	26:39	1.20	279.708	
Total Tri-PCB	3.51e+06	1.13 y	28:32	1.23	2055.17	Sum:2334.88
Total Tetra-PCB	1.17e+07	0.67 y	30:10	1.17	7650.21	
Total Penta-PCB	3.19e+07	1.64 y	35:51	1.24	24841.7	
Total Penta-PCB	2.28e+06	1.70 y	43:05	1.39	1250.85	Sum:26092.6
Total Hexa-PCB	8.35e+06	1.27 y	39:35	0.94	8419.33	
Total Hexa-PCB	2.67e+07	1.33 y	42:10	1.13	17848.1	Sum:26267.4
Total Hepta-PCB	1.68e+07	1.07 y	44:05	1.37	14698.4	
Total Octa-PCB	1.36e+06	0.76 y	48:16	0.95	1552.95	
Total Octa-PCB	8.70e+05	0.98 y	52:53	1.35	963.633	Sum:2516.59
Total Nona-PCB	6.03e+05	1.27 y	53:01	0.99	754.034	
Total Deca-PCB	2.59e+05	1.24 y	56:45	1.35	228.135	

Total PCB Conc:83296.1423420

Integrations

by

Analyst: *DMS*

Date: *3/2/15*

Client ID: ST-OF-01-20150210-W
 Lab ID: 1500166-03@20X

Filename: 150227E1 S:3 Acq:27-FEB-15 14:44:54
 GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol:1.0106

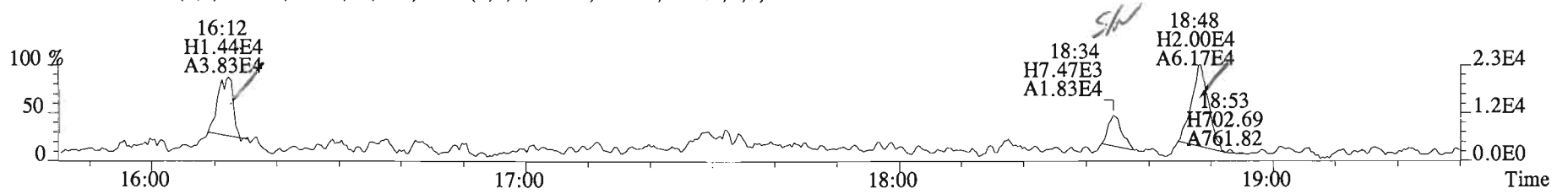
ConCal: ST150227E1-1
 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	
13C-PCB-1	3.73e+06	3.39 y	0.91	16:11	0.622	0.619-0.625		2070	105												
13C-PCB-3	3.75e+06	2.93 y	0.94	18:48	0.723	0.718-0.726		2020	102		13C-PCB-79	3.92e+06	0.79 y	1.02	37:50	1.029	1.024-1.033		2000	101	
13C-PCB-4	1.80e+06	1.63 y	0.60	20:07	0.774	0.770-0.778		1520	76.9		13C-PCB-178	1.65e+06	0.46 y	0.64	45:39	0.985	0.980-0.989		1990	100	
13C-PCB-9	3.15e+06	1.58 y	0.96	21:55	0.843	0.839-0.847		1660	83.8												
13C-PCB-11	3.34e+06	1.51 y	0.95	25:18	0.973	0.968-0.978		1770	89.4	PS vs. IS											
13C-PCB-19	2.19e+06	1.14 y	0.56	24:16	0.933	0.929-0.939		1970	99.7		Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	
13C-PCB-28	2.72e+06	1.10 y	1.07	29:10	1.004	0.999-1.009		1290	65.3		13C-PCB-79	3.92e+06	0.79 y	1.02	37:50	0.968	0.963-0.973		2400	121	
13C-PCB-32	3.04e+06	1.18 y	0.83	27:10	1.045	1.041-1.051		1870	94.3		13C-PCB-178	1.65e+06	0.46 y	0.84	45:39	0.925	0.920-0.930		2330	118	
13C-PCB-37	2.94e+06	1.07 y	0.96	33:01	1.137	1.131-1.143		1550	78.5												
13C-PCB-47	2.37e+06	0.87 y	0.77	32:03	0.871	0.867-0.875		1610	81.2												
13C-PCB-52	2.16e+06	0.77 y	0.71	31:32	0.857	0.853-0.861		1580	80.1												
13C-PCB-54	2.86e+06	0.86 y	1.06	28:00	0.761	0.757-0.765		1410	71.2												
13C-PCB-70	3.02e+06	0.82 y	0.99	35:33	0.966	0.961-0.971		1580	80.0												
13C-PCB-77	2.99e+06	0.85 y	0.96	39:40	1.078	1.073-1.083		1620	81.8												
13C-PCB-80	3.29e+06	0.81 y	1.02	35:59	0.978	0.973-0.983		1680	84.9												
13C-PCB-81	3.15e+06	0.82 y	1.00	39:04	1.062	1.057-1.067		1650	83.2												
13C-PCB-95	1.77e+06	1.64 y	0.70	35:51	0.913	0.908-0.918		1730	87.3	RS											
13C-PCB-97	1.70e+06	1.53 y	0.66	38:50	0.989	0.984-0.994		1770	89.4		Name	Resp	RA	RRF	RT	Conc					
13C-PCB-101	1.87e+06	1.53 y	0.77	37:32	0.956	0.951-0.961		1670	84.5		13C-PCB-15	3.91e+06	1.64 y	1.00	26:00	1980					
13C-PCB-104	2.05e+06	1.64 y	0.97	32:41	0.833	0.828-0.836		1450	73.3		13C-PCB-31	3.89e+06	0.99 y	1.00	29:03	1980					
13C-PCB-105	2.32e+06	1.53 y	1.20	43:05	0.929	0.924-0.934		1480	74.9		13C-PCB-60	3.79e+06	0.80 y	1.00	36:47	1980					
13C-PCB-114	2.48e+06	1.61 y	1.26	42:13	0.911	0.905-0.915		1520	76.6		13C-PCB-111	2.89e+06	1.48 y	1.00	39:16	1980					
13C-PCB-118	2.39e+06	1.63 y	0.94	41:34	1.059	1.054-1.064		1740	88.1		13C-PCB-128	2.58e+06	1.37 y	1.00	46:21	1980					
13C-PCB-123	2.53e+06	1.60 y	0.88	41:23	1.054	1.049-1.059		1960	99.3		13C-PCB-205	2.48e+06	0.89 y	1.00	54:02	1980					
13C-PCB-126	2.32e+06	1.68 y	1.13	45:18	0.977	0.972-0.982		1580	80.0												
13C-PCB-127	2.35e+06	1.74 y	1.26	43:25	0.936	0.931-0.941		1440	72.6												
13C-PCB-138	2.22e+06	1.31 y	1.12	44:48	0.966	0.961-0.971		1520	76.9												
13C-PCB-141	2.25e+06	1.37 y	1.09	43:58	0.948	0.943-0.953		1590	80.1												
13C-PCB-153	2.57e+06	1.34 y	1.27	43:14	0.933	0.927-0.937		1550	78.2												
13C-PCB-155	2.24e+06	1.23 y	0.87	37:04	0.944	0.939-0.949		1760	88.8												
13C-PCB-156	2.84e+06	1.23 y	1.35	48:03	1.037	1.032-1.042		1610	81.6												
13C-PCB-157	2.92e+06	1.31 y	1.42	48:20	1.042	1.037-1.047		1580	79.9												
13C-PCB-159	2.79e+06	1.42 y	1.37	46:06	0.994	0.989-0.999		1570	79.1												
13C-PCB-167	2.77e+06	1.35 y	1.38	46:46	1.009	1.004-1.014		1540	77.7												
13C-PCB-169	2.82e+06	1.32 y	1.38	50:26	1.088	1.084-1.094		1570	79.2												
13C-PCB-170	1.33e+06	0.45 y	0.60	50:47	1.096	1.091-1.103		1690	85.5												
13C-PCB-180	1.66e+06	0.44 y	0.76	49:20	1.064	1.059-1.069		1690	85.3												
13C-PCB-188	1.77e+06	0.47 y	1.01	42:51	0.924	0.919-0.929		1340	67.7												
13C-PCB-189	1.73e+06	0.46 y	0.80	52:16	1.127	1.124-1.136		1660	83.9												
13C-PCB-194	1.42e+06	0.91 y	0.75	53:45	0.995	0.990-1.000		1520	77.1												
13C-PCB-202	2.00e+06	0.99 y	0.99	48:15	1.041	1.036-1.046		1550	78.4												
13C-PCB-206	1.55e+06	0.88 y	0.73	55:23	1.025	1.020-1.301		1690	85.5												
13C-PCB-208	2.11e+06	0.77 y	1.08	53:01	0.981	0.977-0.987		1550	78.5												
13C-PCB-209	1.67e+06	1.25 y	0.71	56:44	1.050	1.045-1.055		1870	94.7												

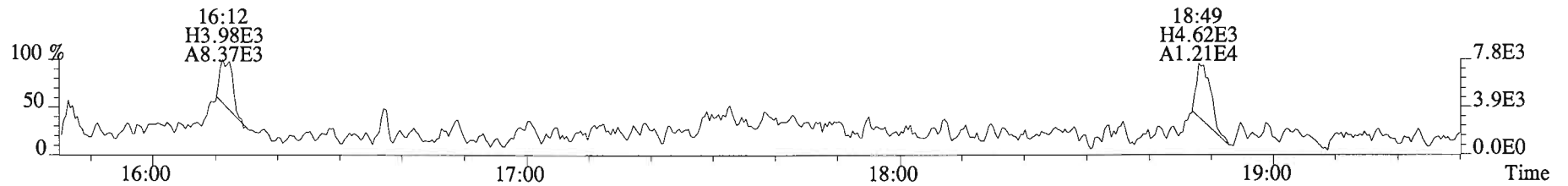
Analyst: DMS

Date: 3/2/15

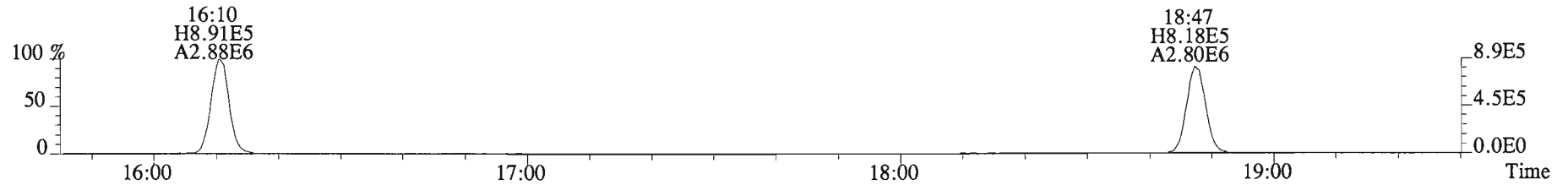
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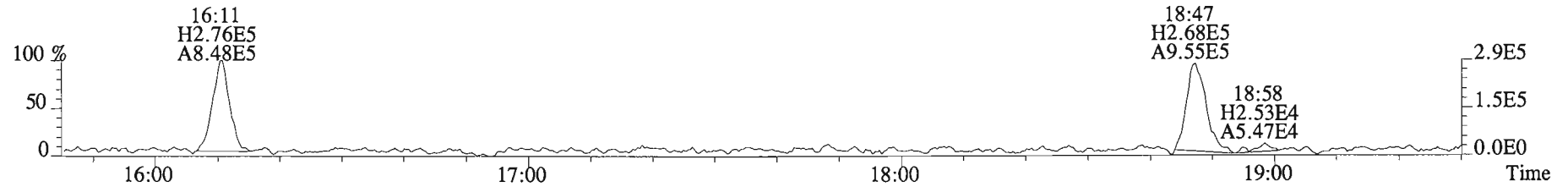
190.0363 S:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2284.0,0.00%,F,F)



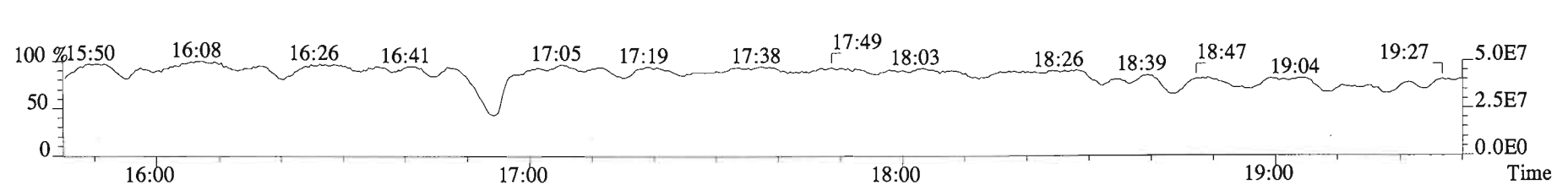
200.0795 S:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3252.0,0.00%,F,F)



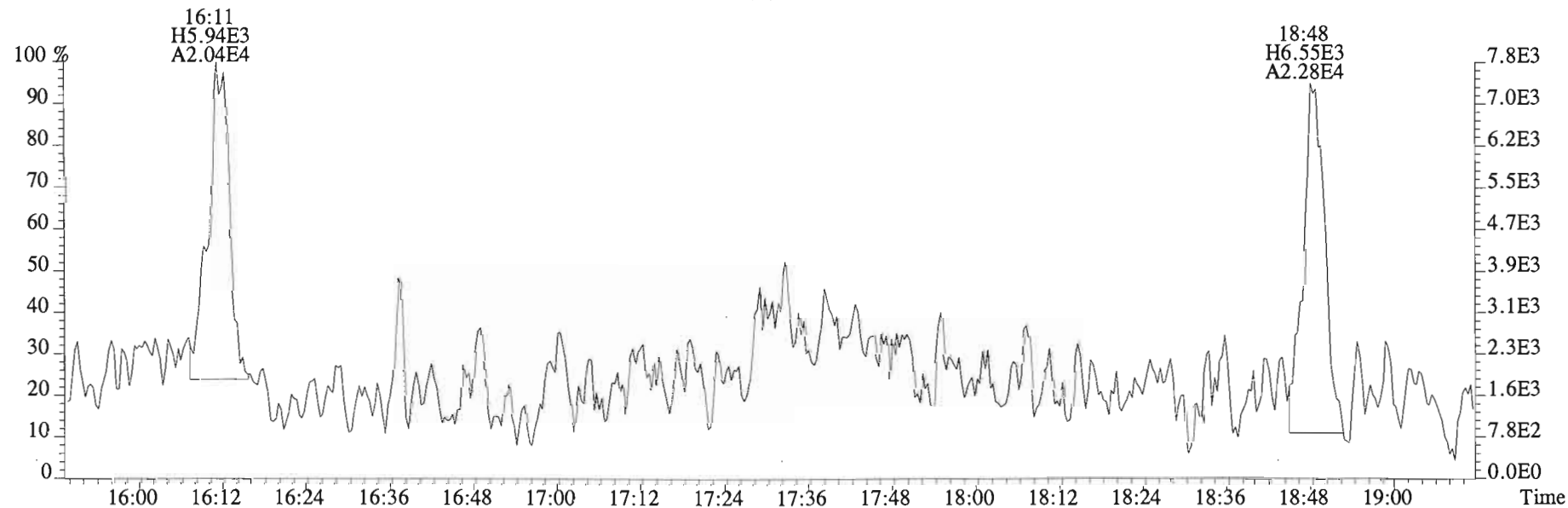
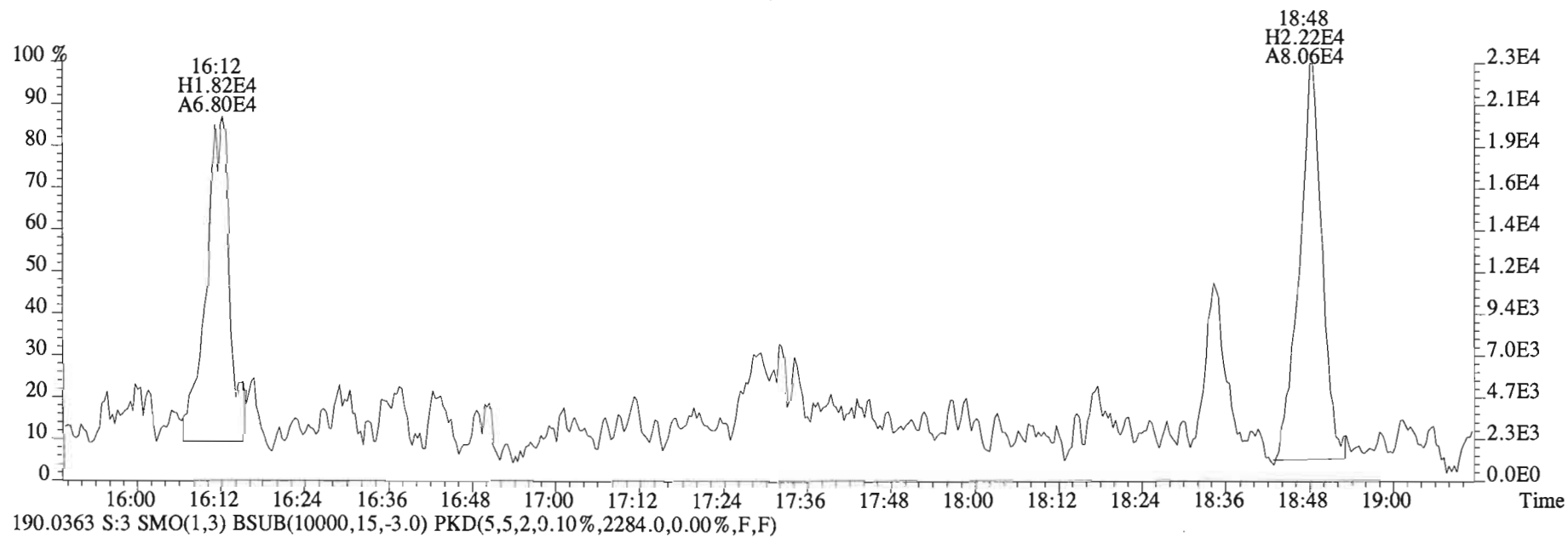
202.0766 S:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,22696.0,0.00%,F,F)



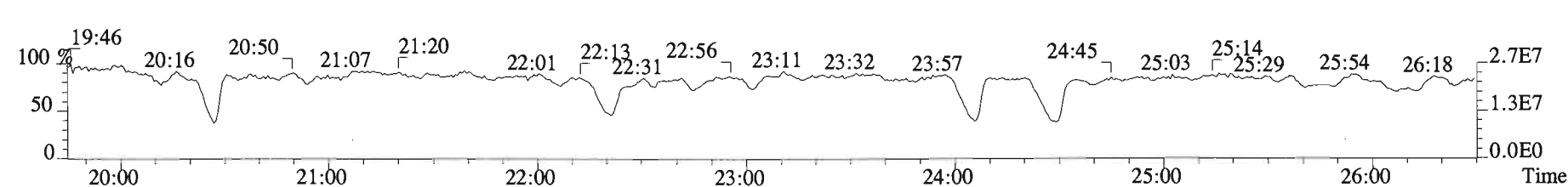
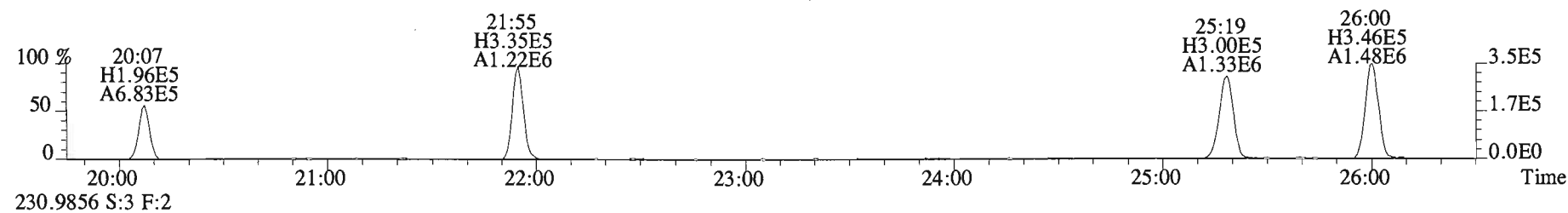
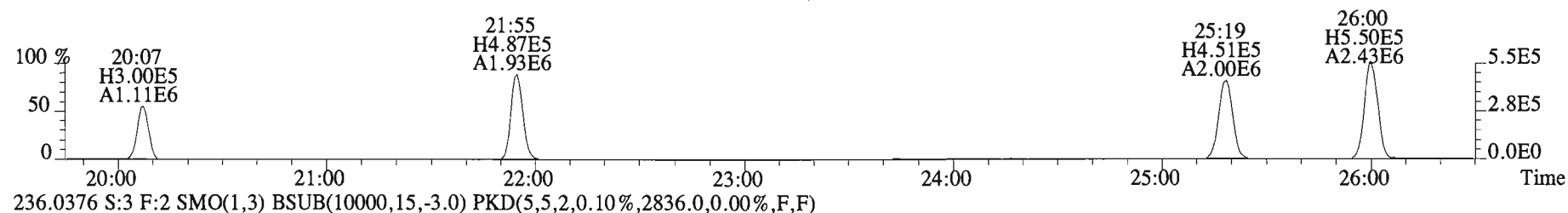
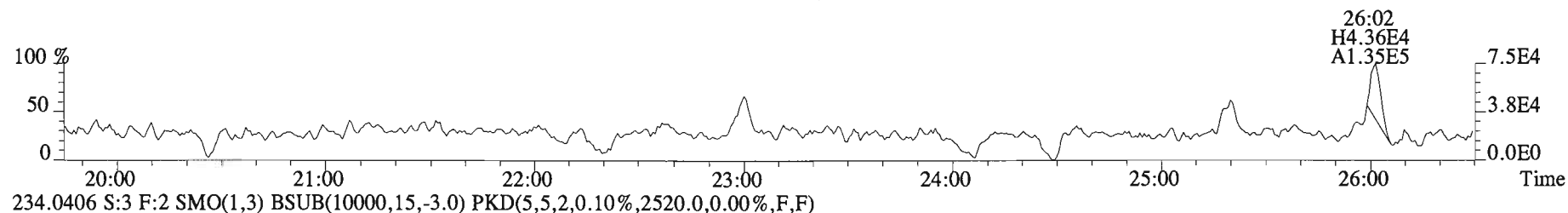
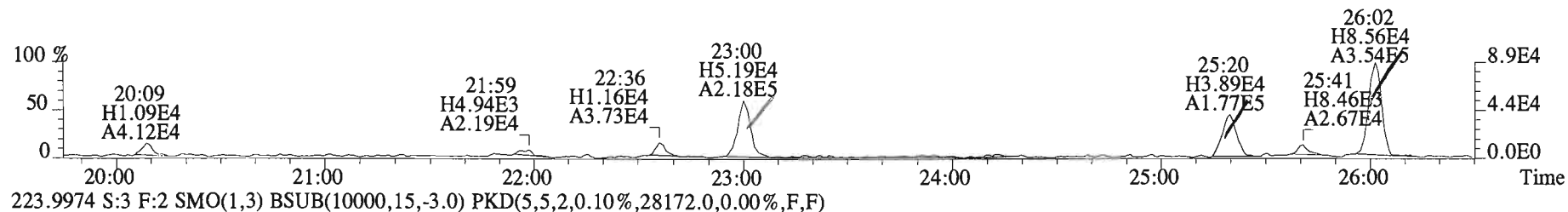
180.9880 S:3



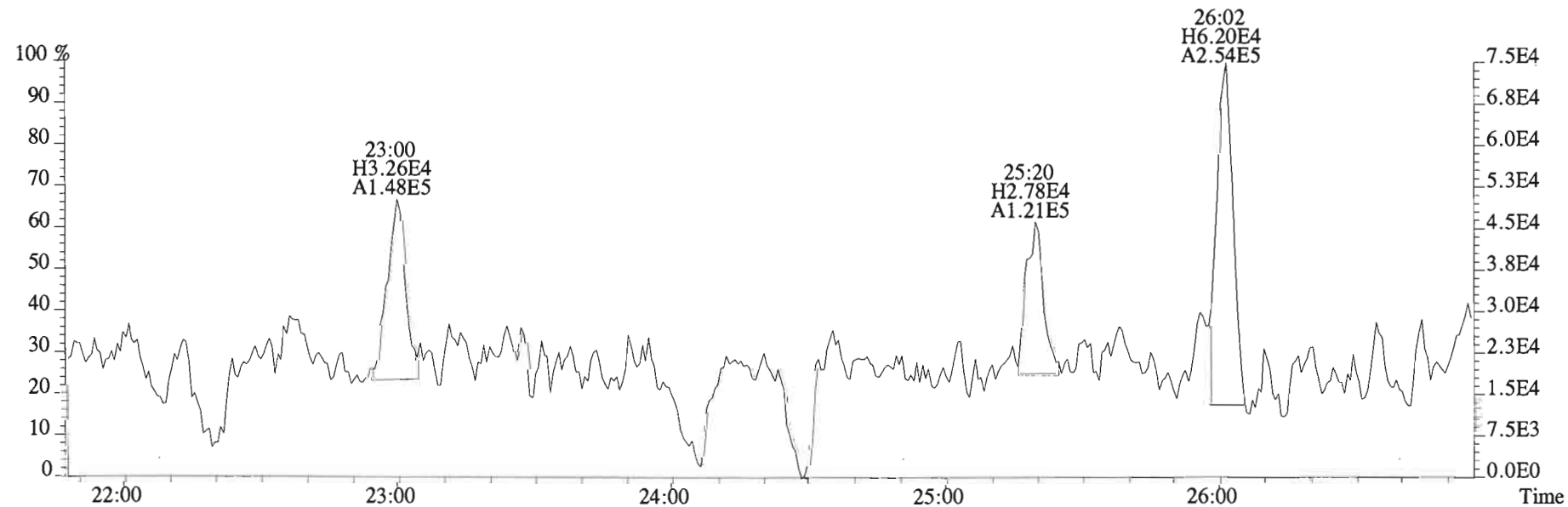
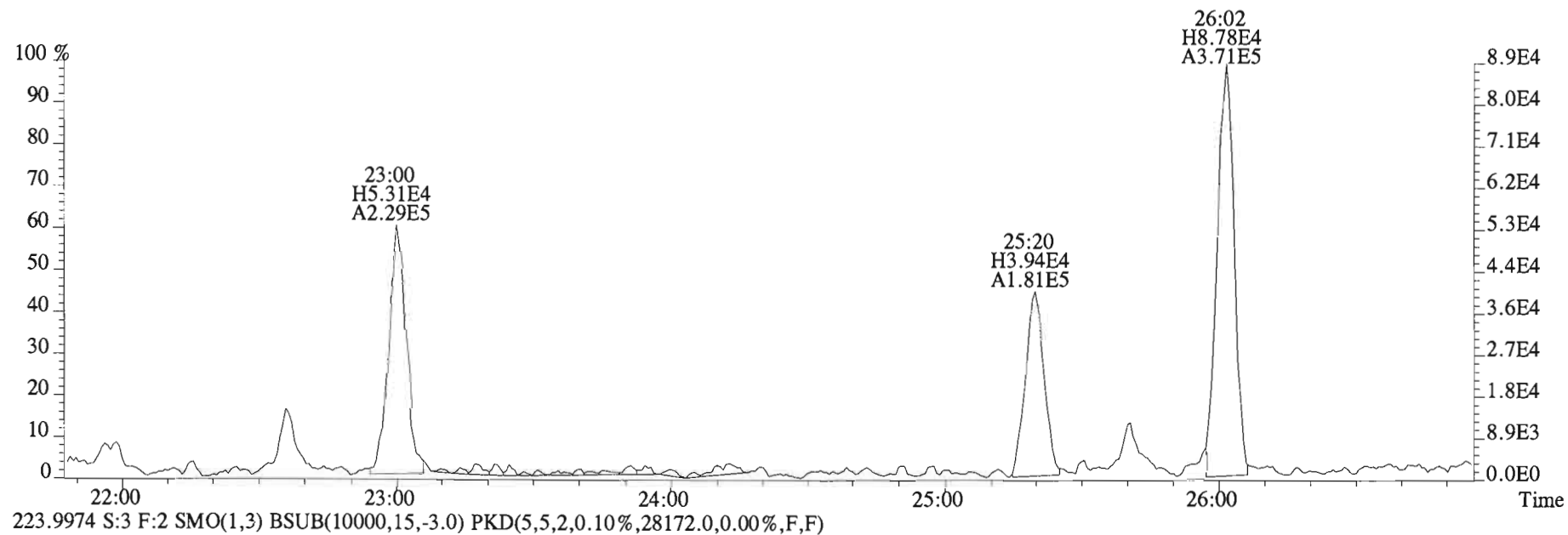
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
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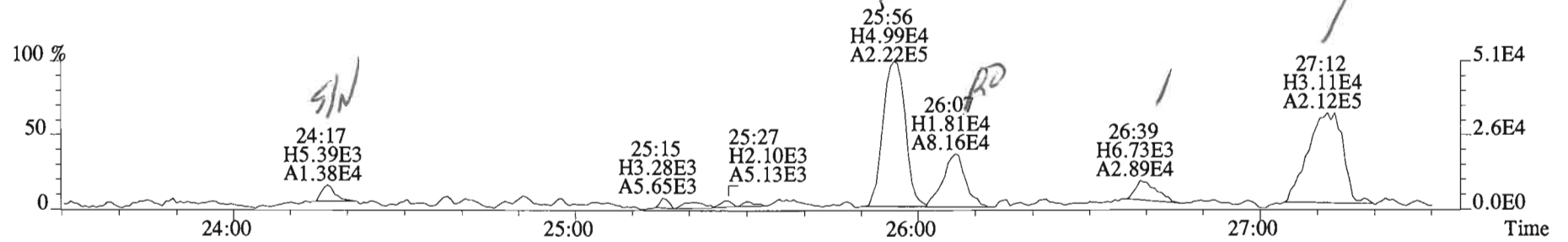
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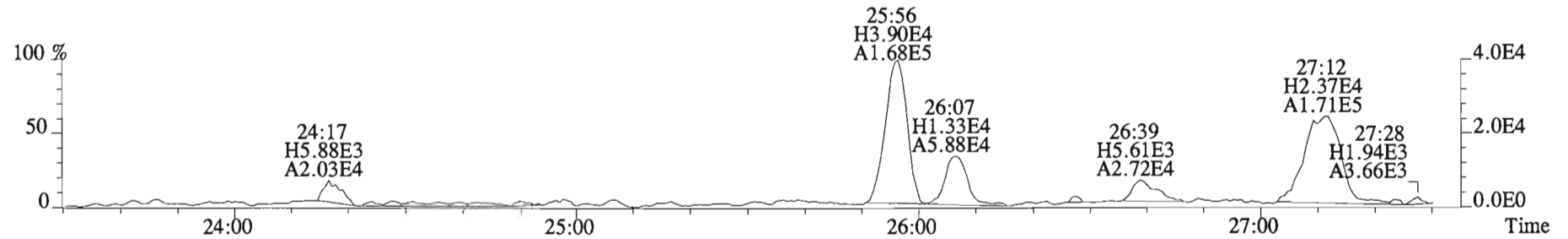
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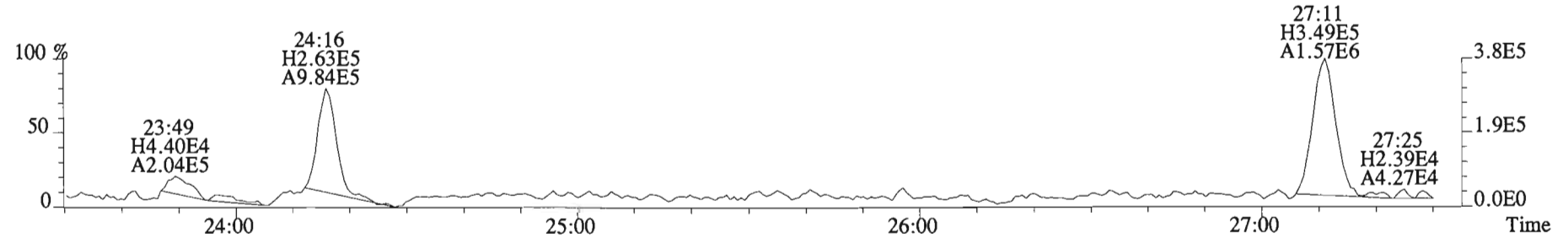
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255.9613 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2916.0,0.00%,F,F)



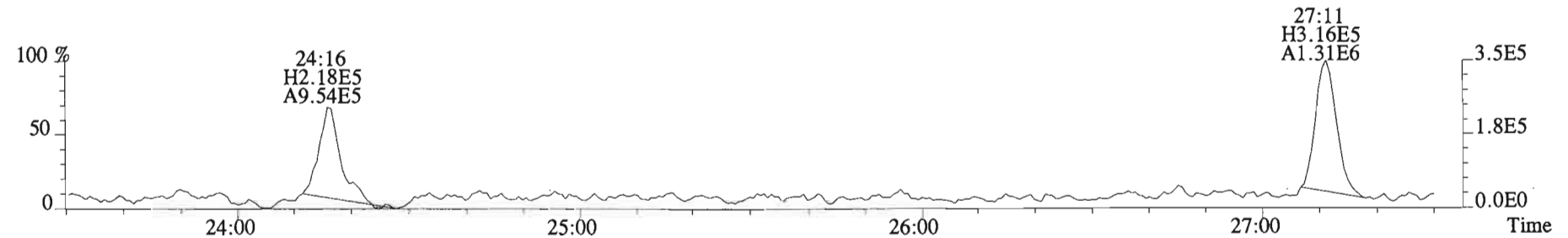
257.9584 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1728.0,0.00%,F,F)



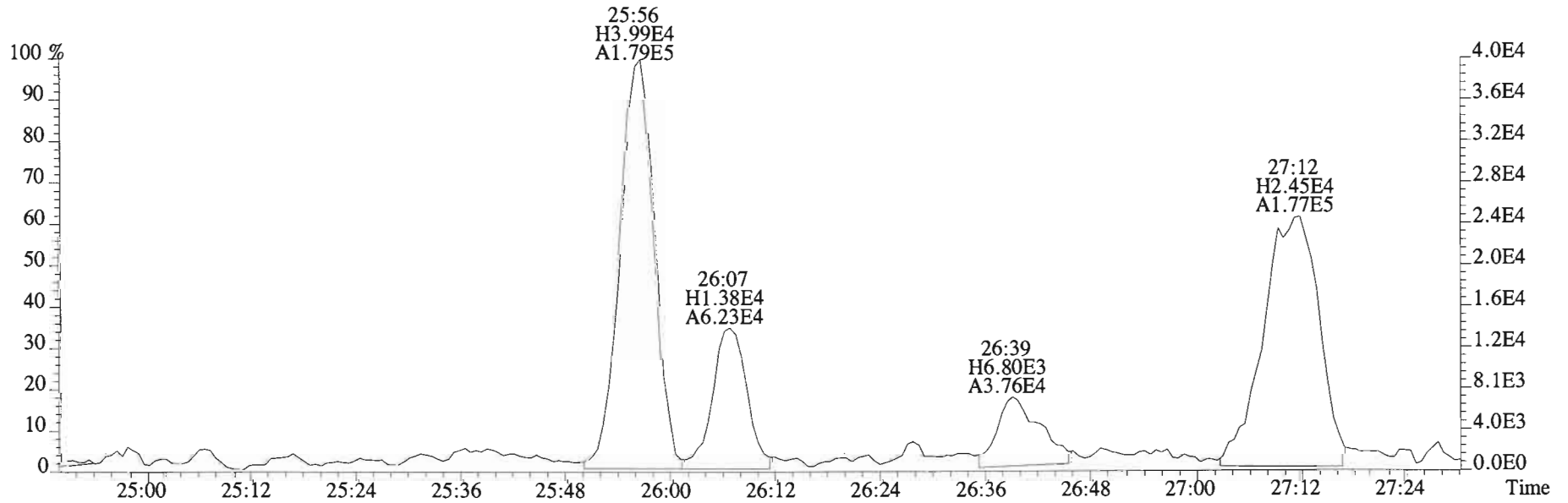
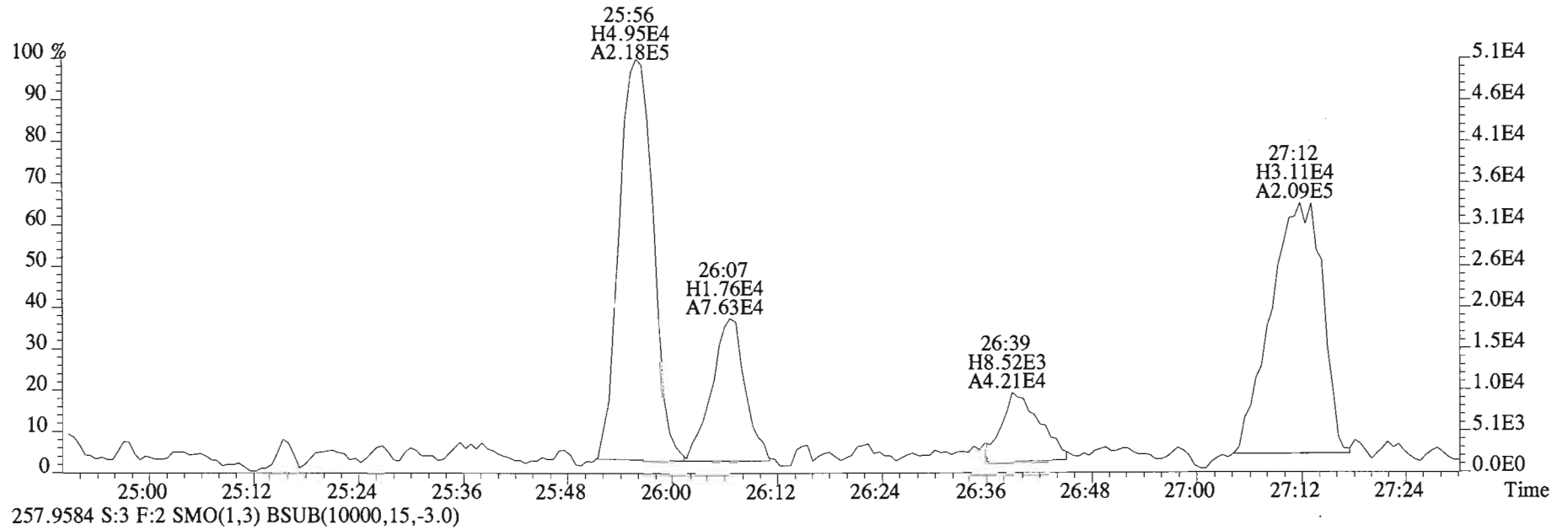
268.0016 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,38604.0,0.00%,F,F)



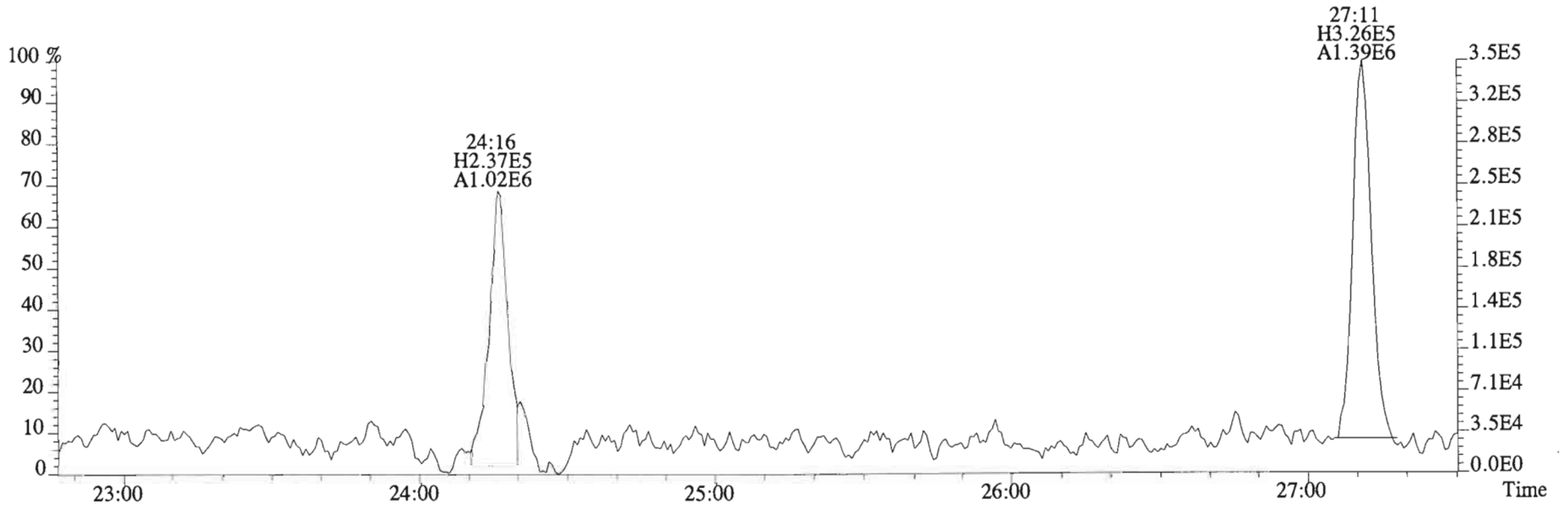
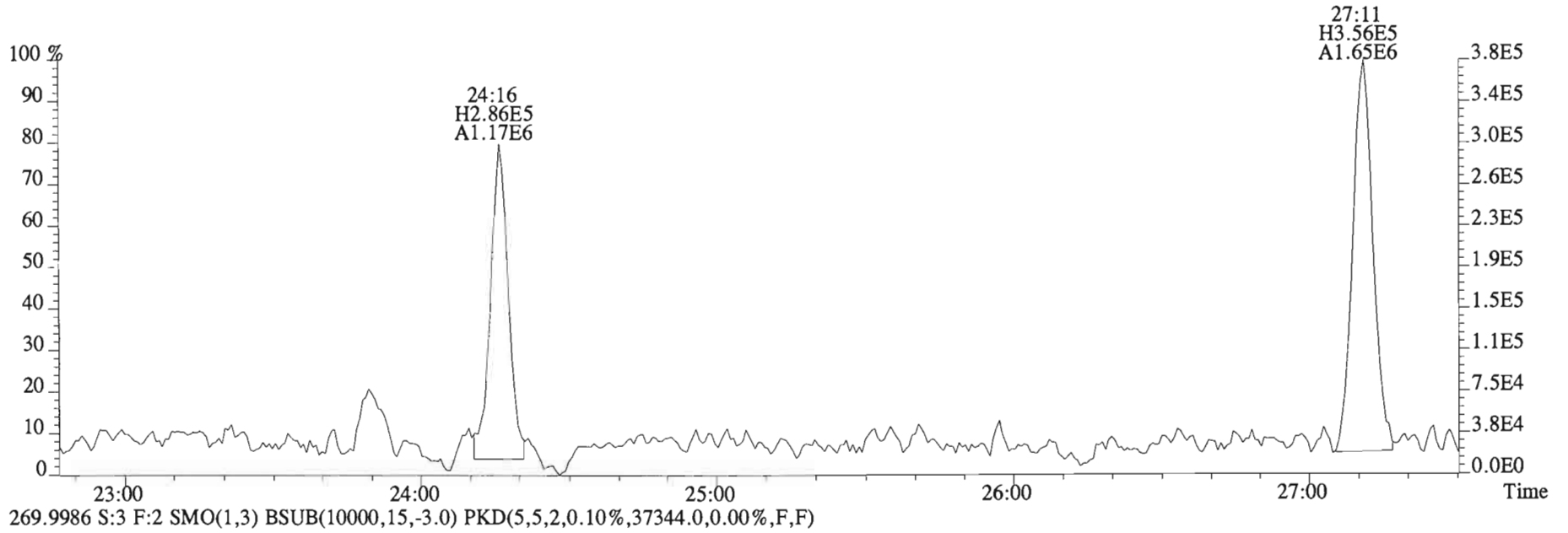
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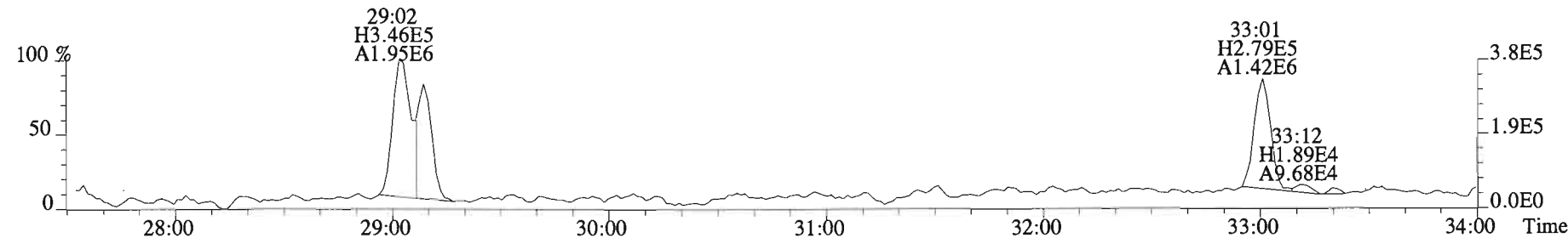
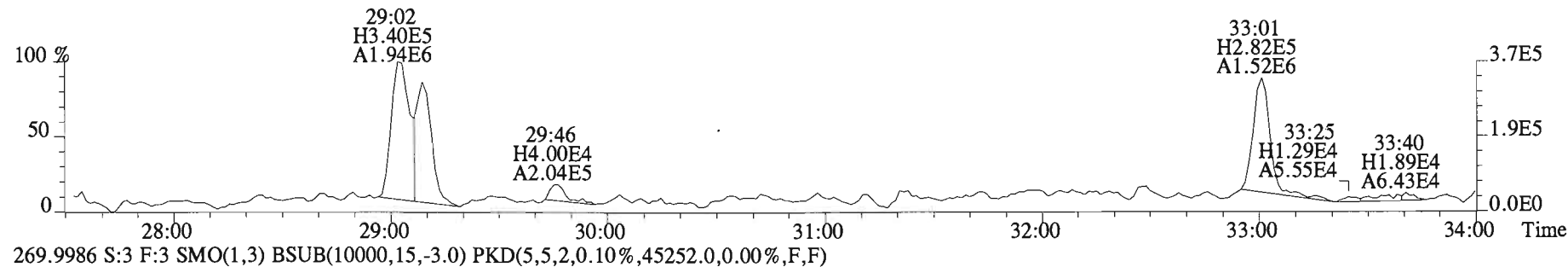
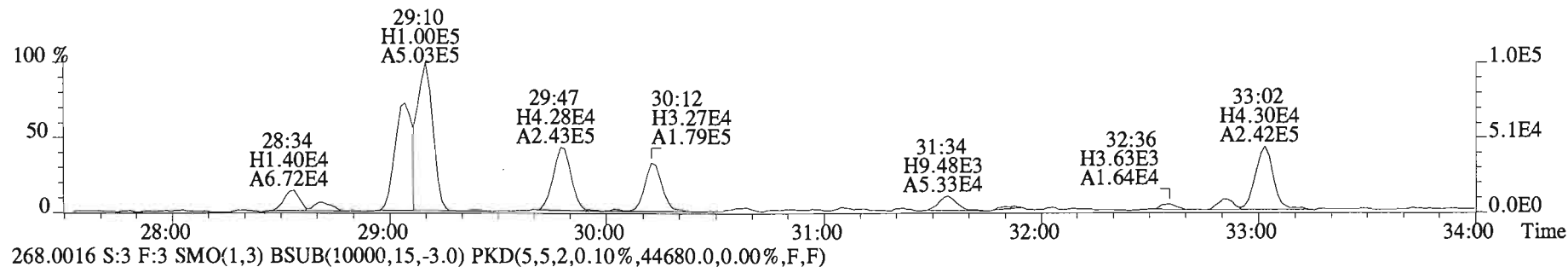
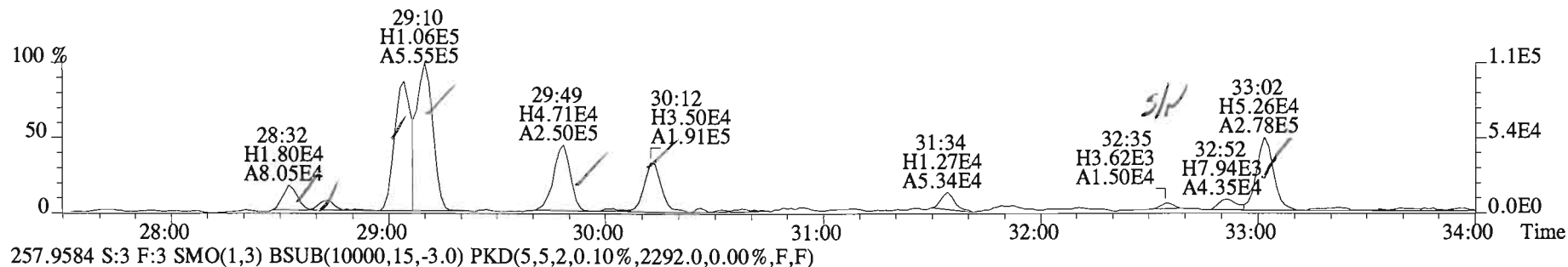
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255.9613 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0)



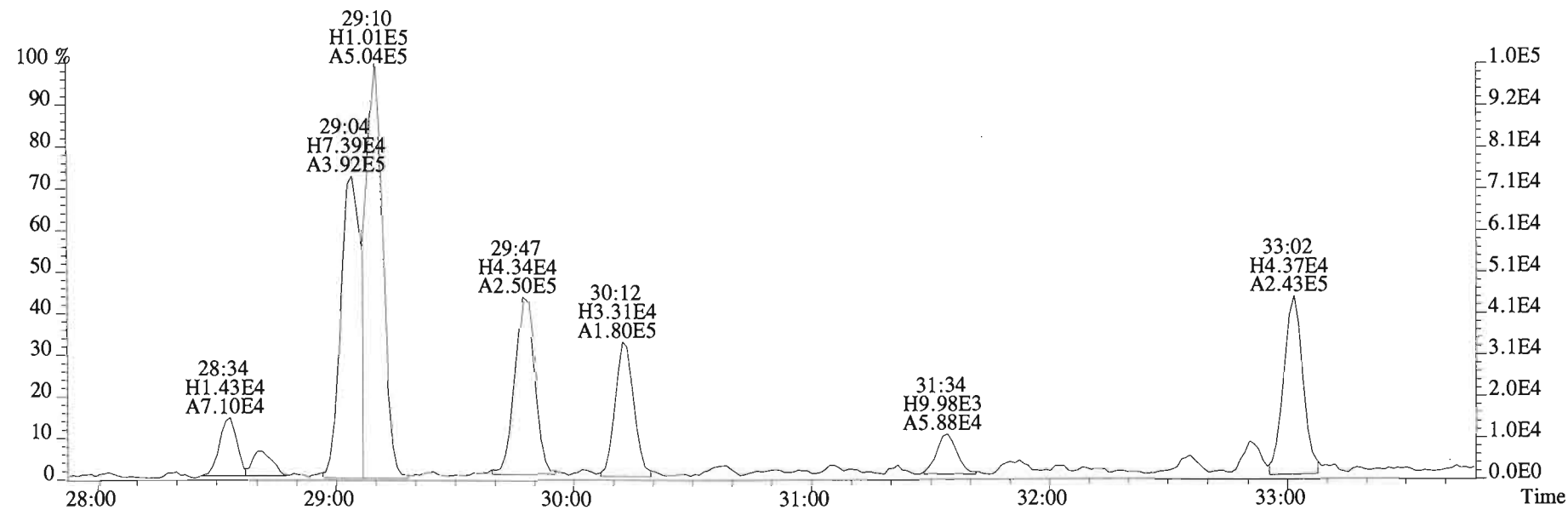
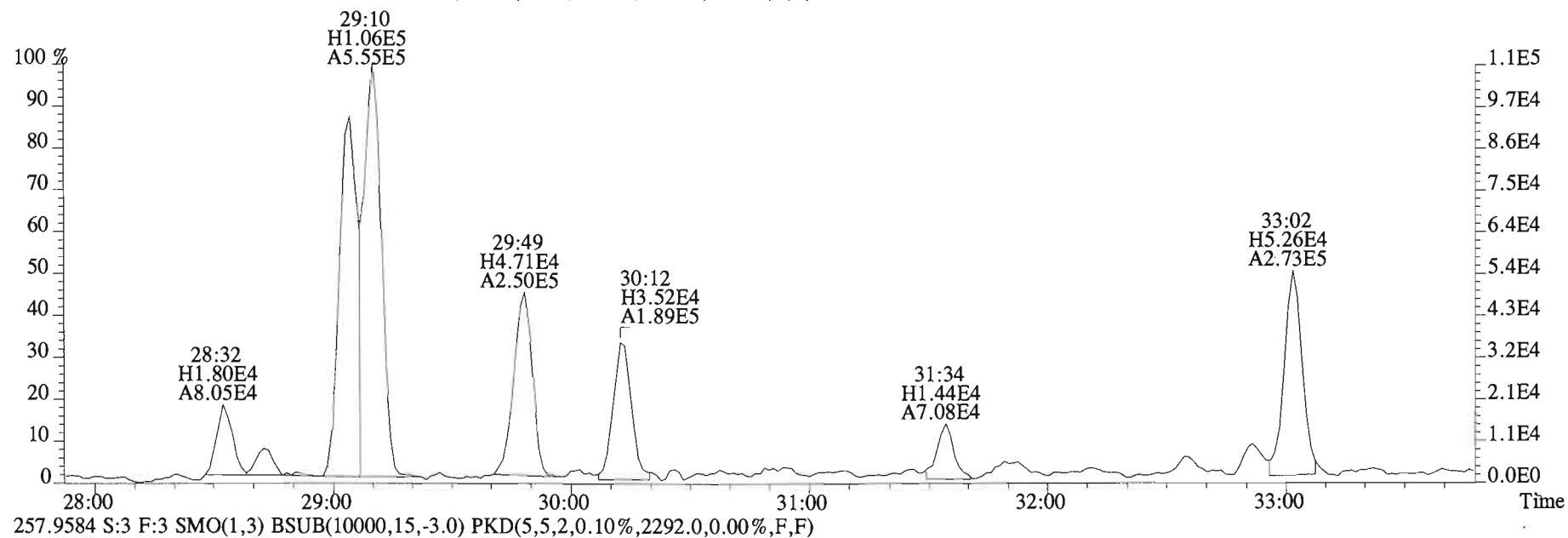
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
268.0016 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,38604.0,0.00%,F,F)



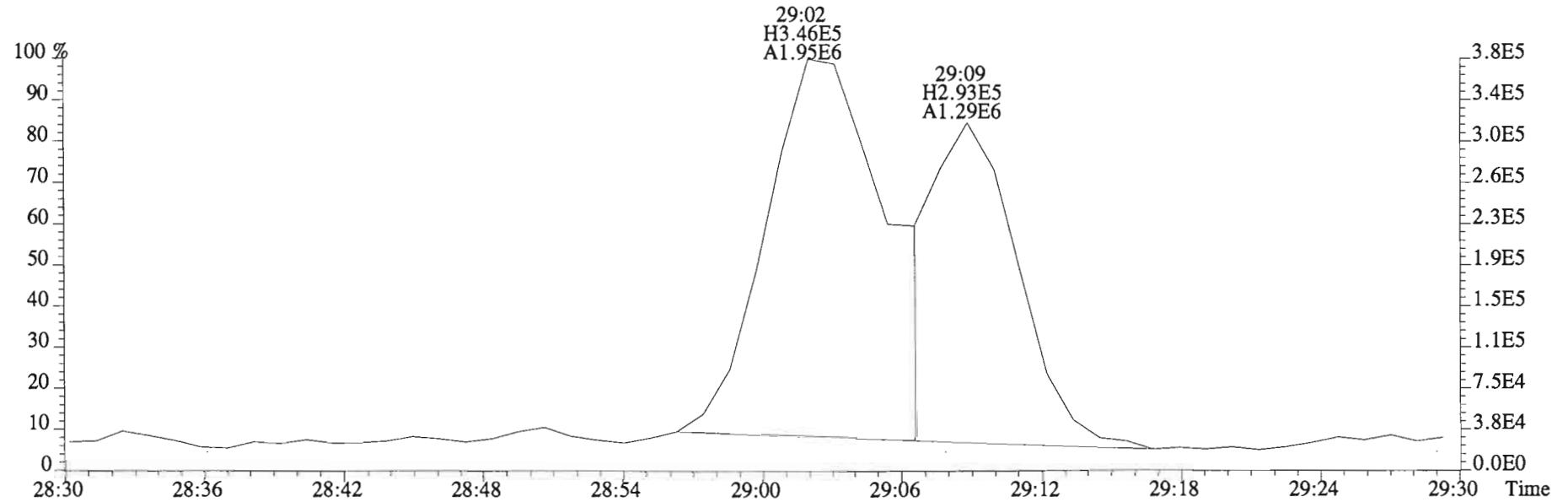
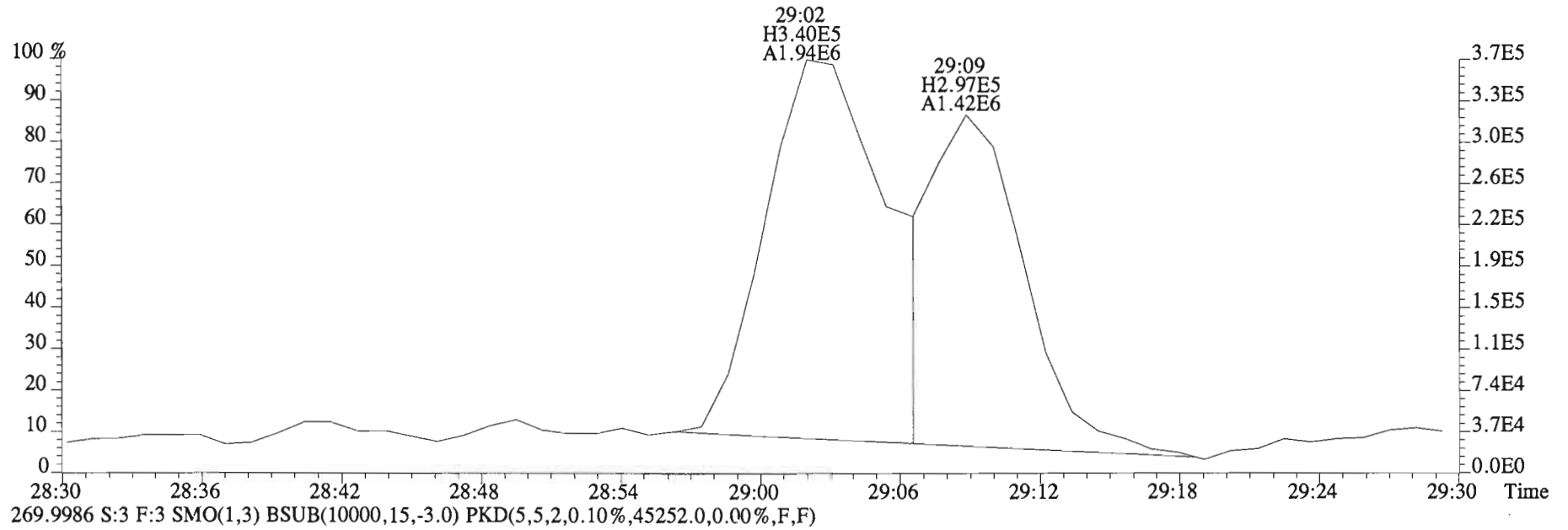
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 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
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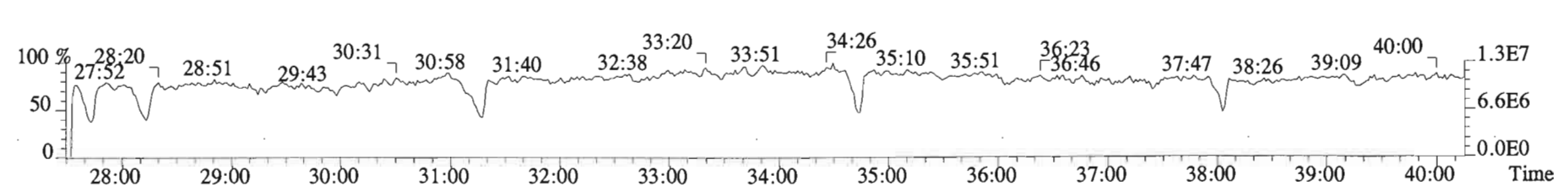
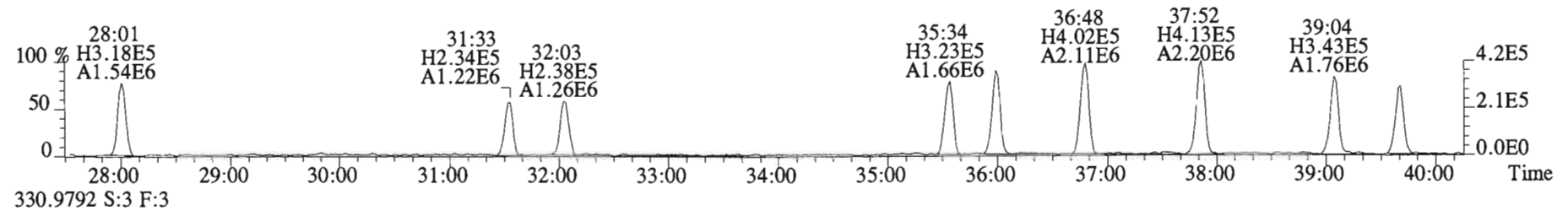
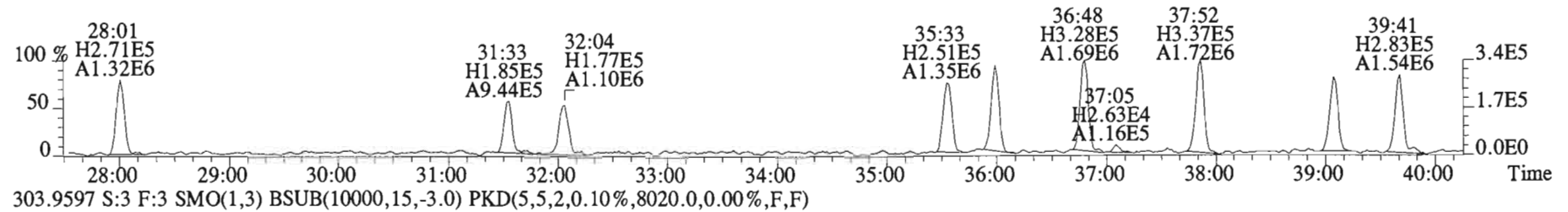
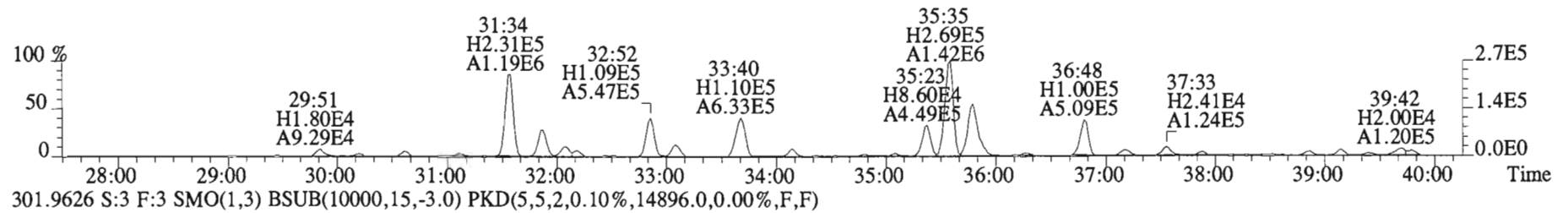
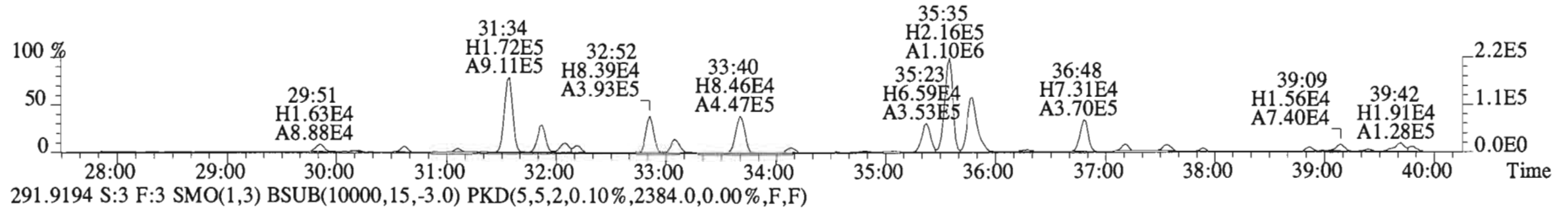
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
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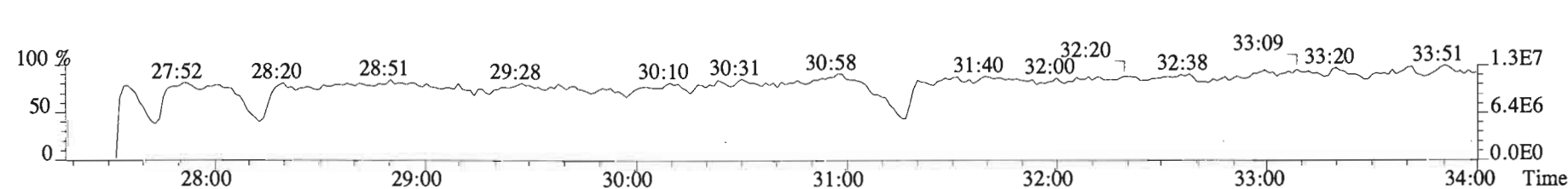
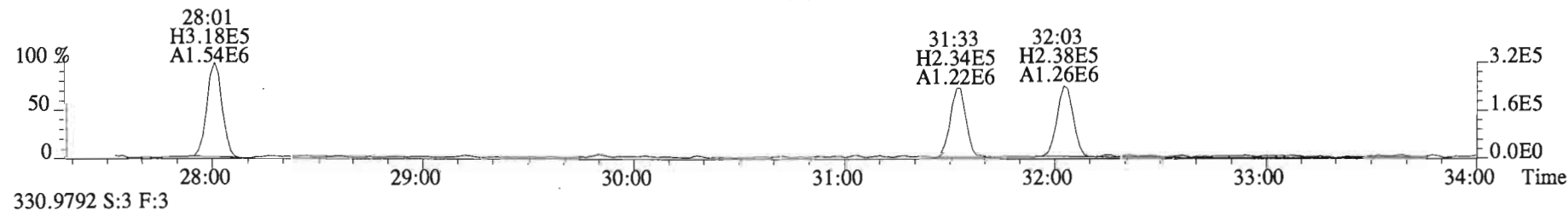
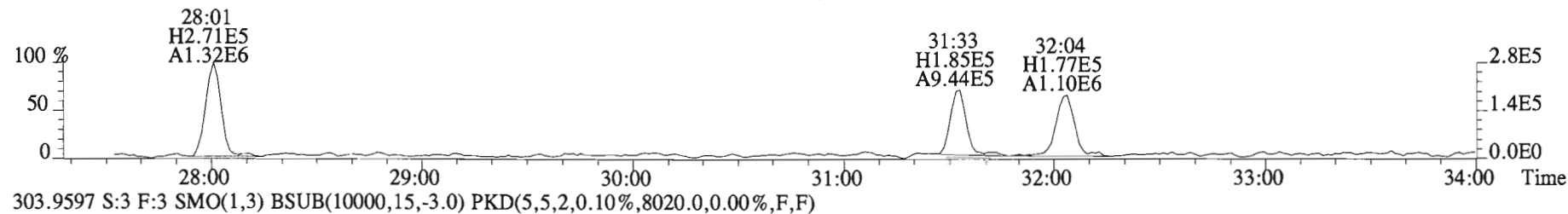
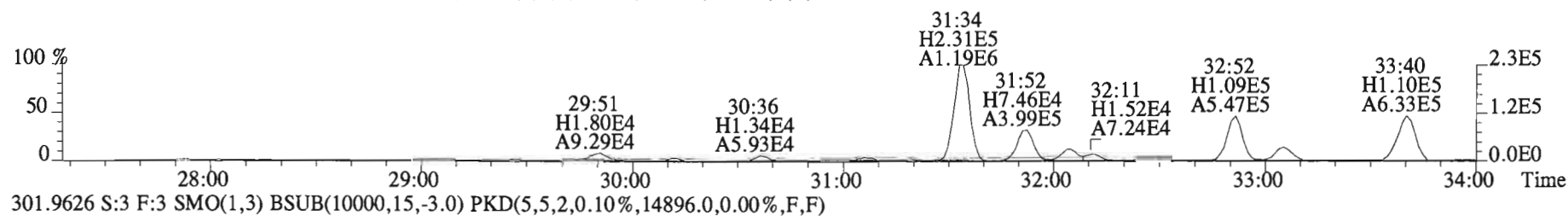
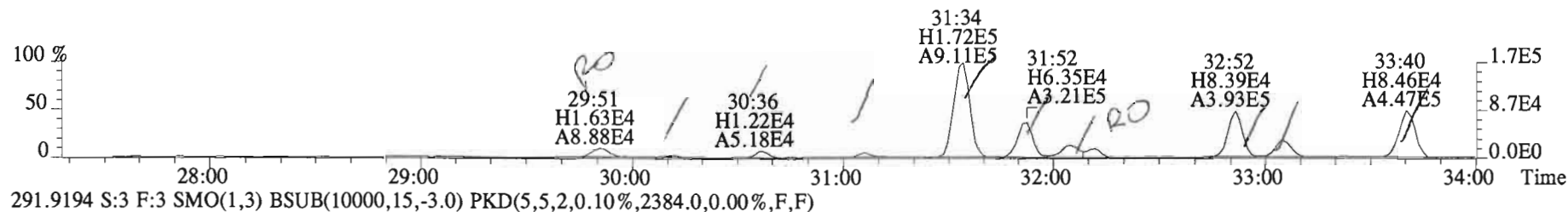
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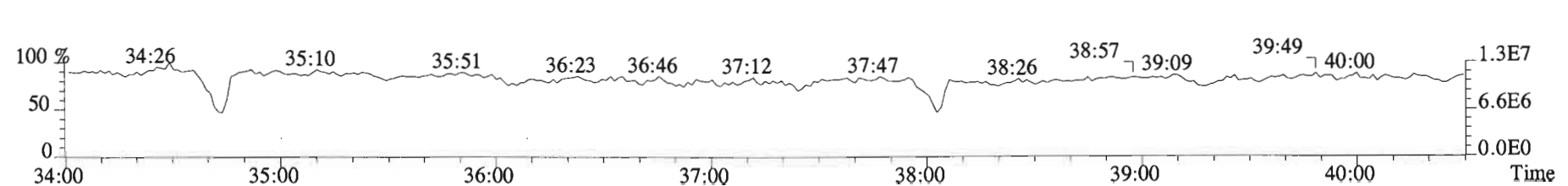
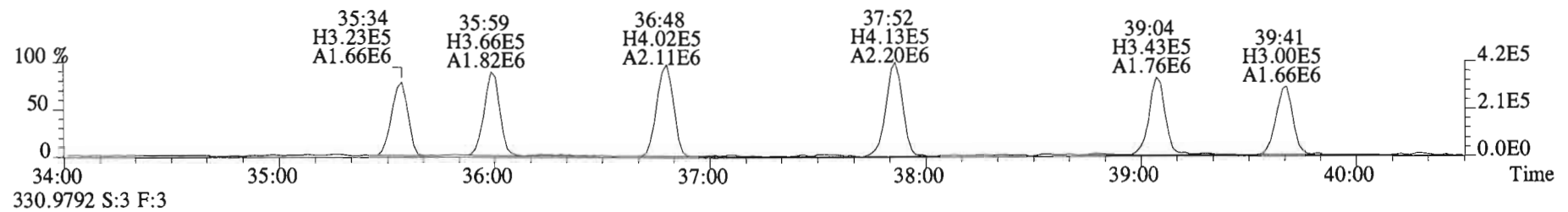
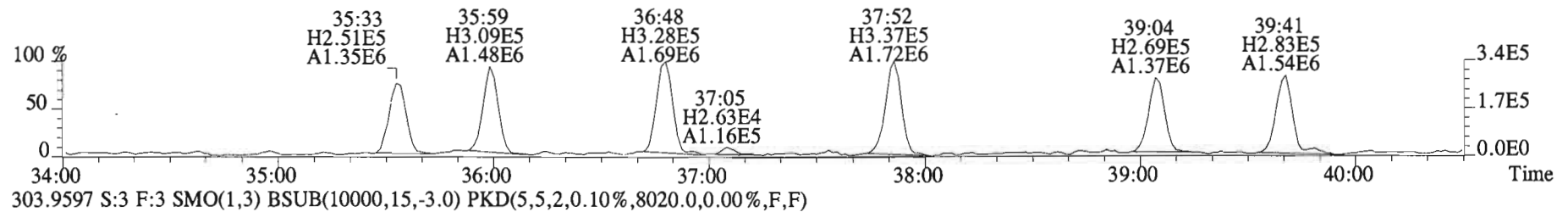
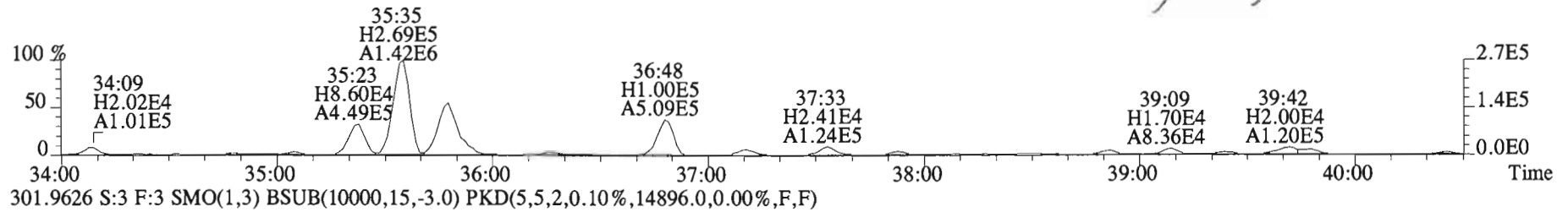
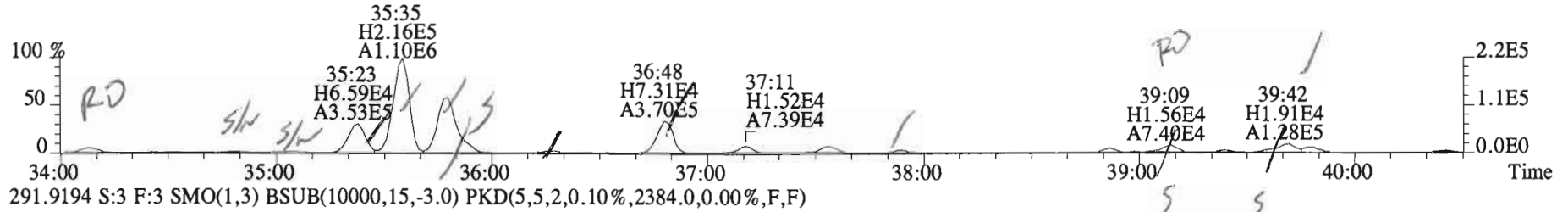
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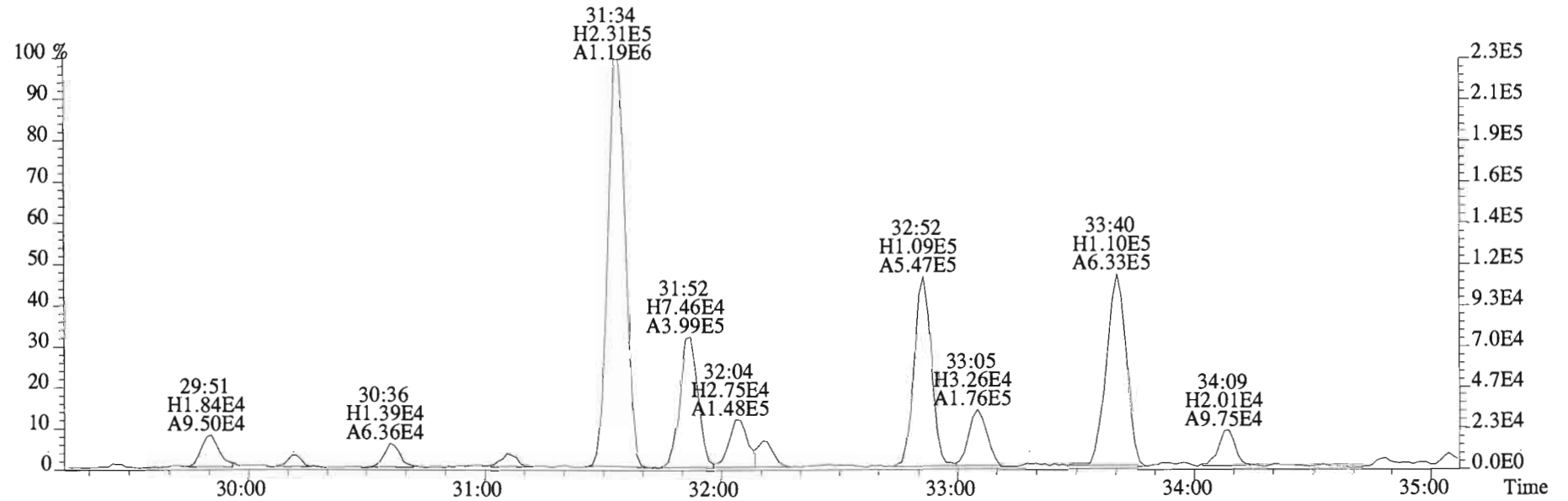
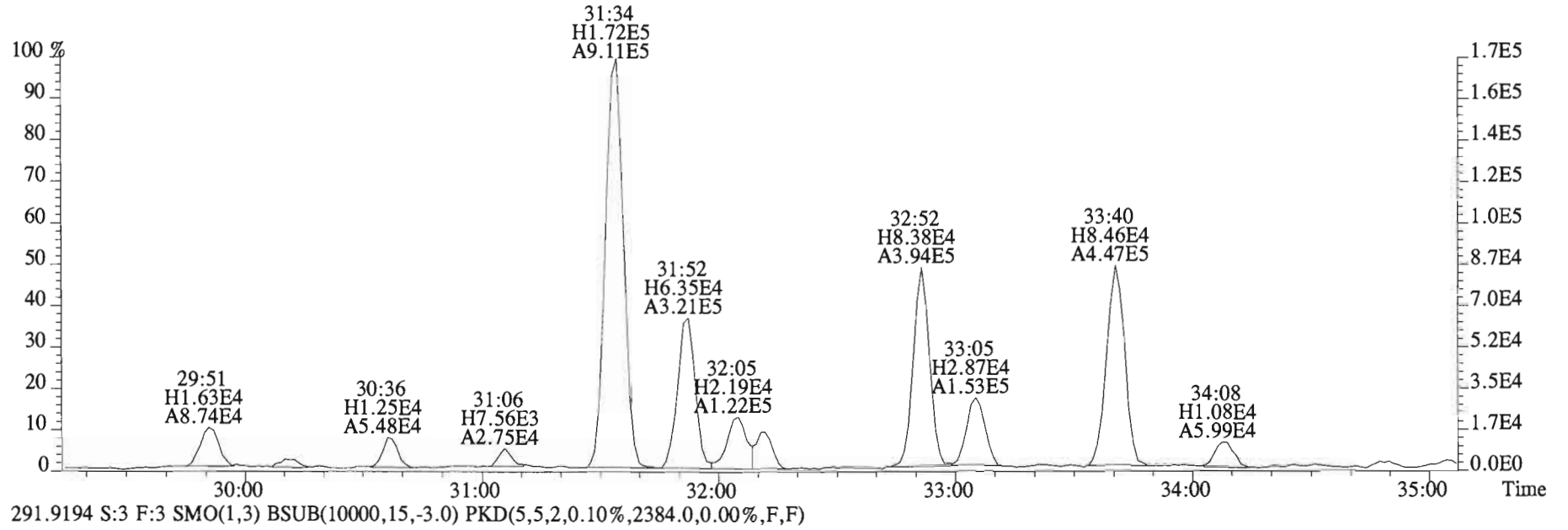
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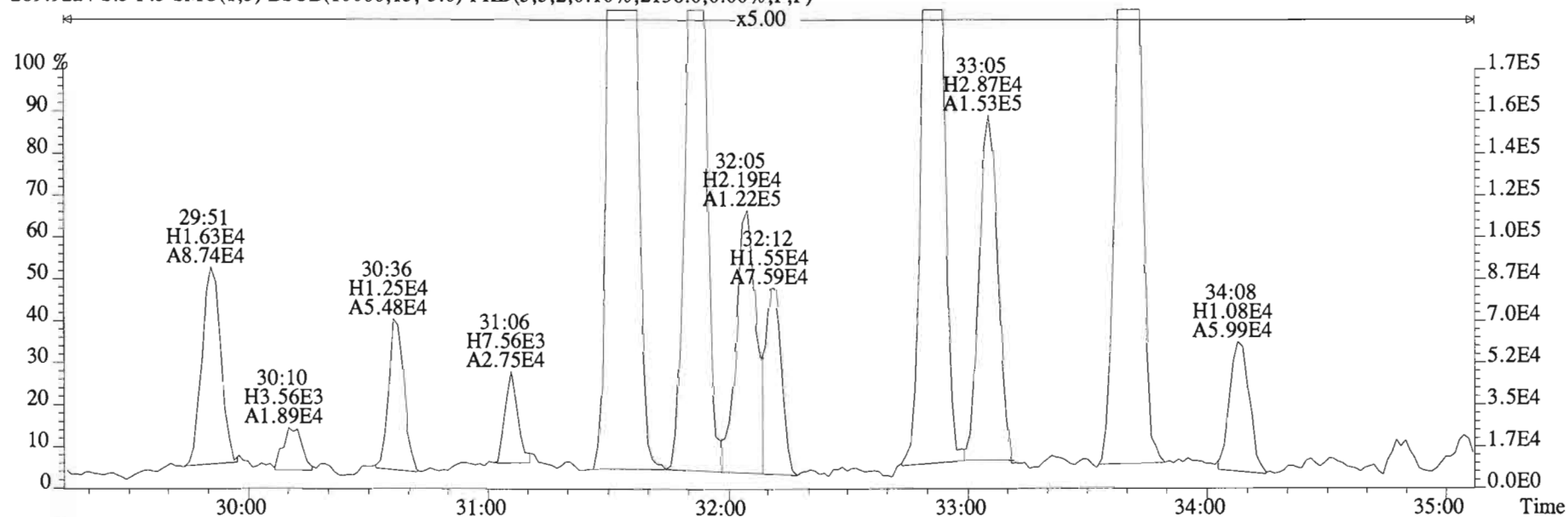
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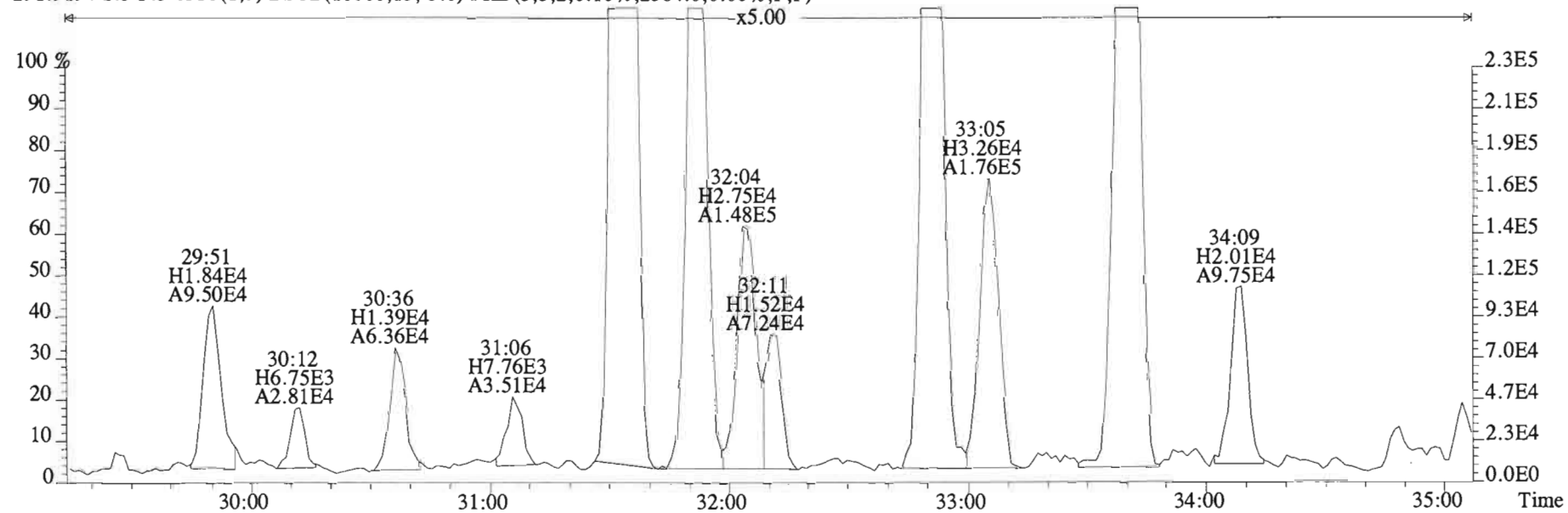
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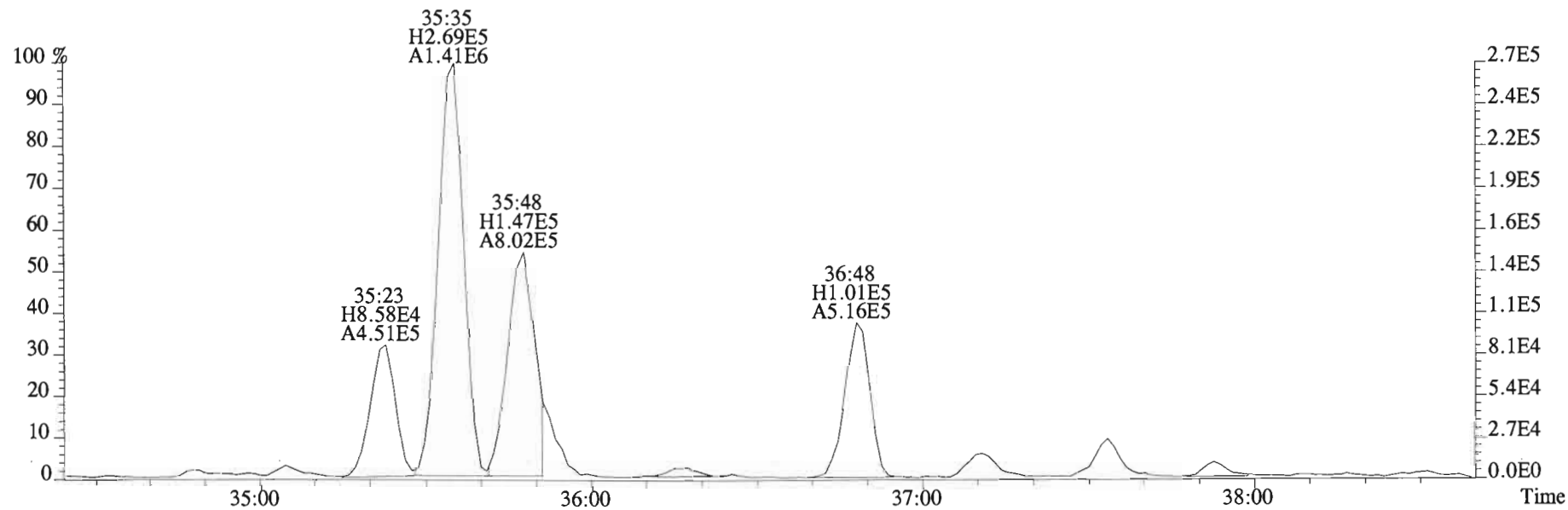
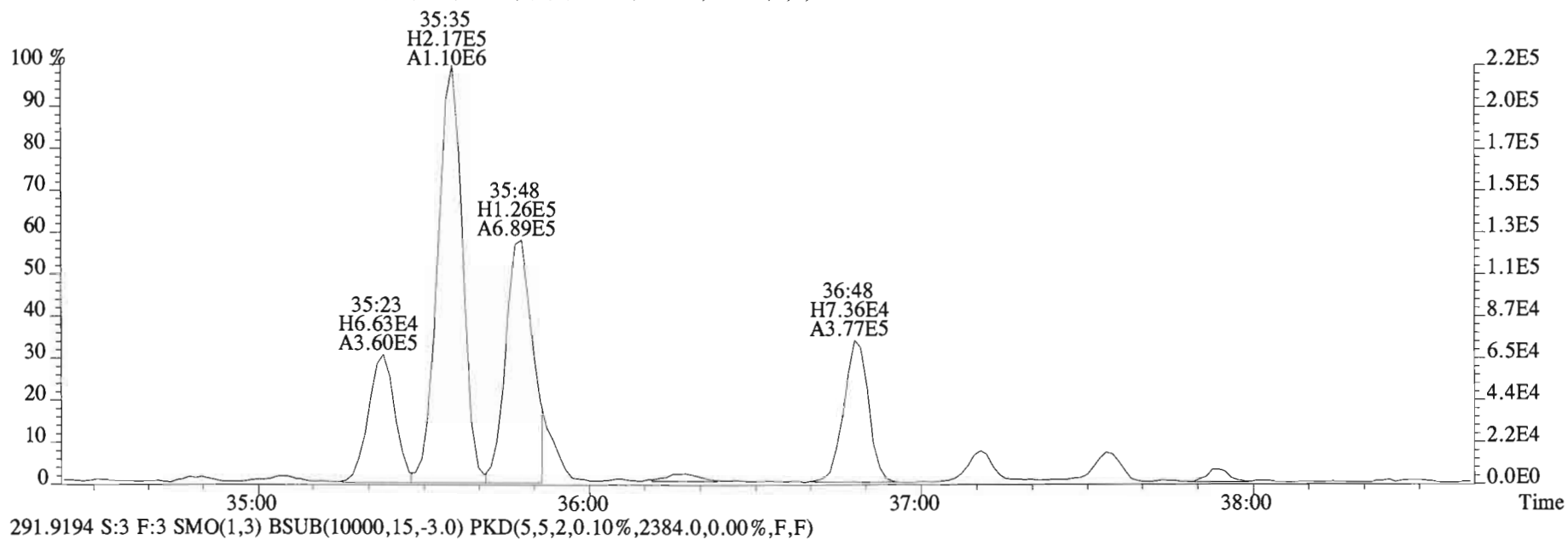
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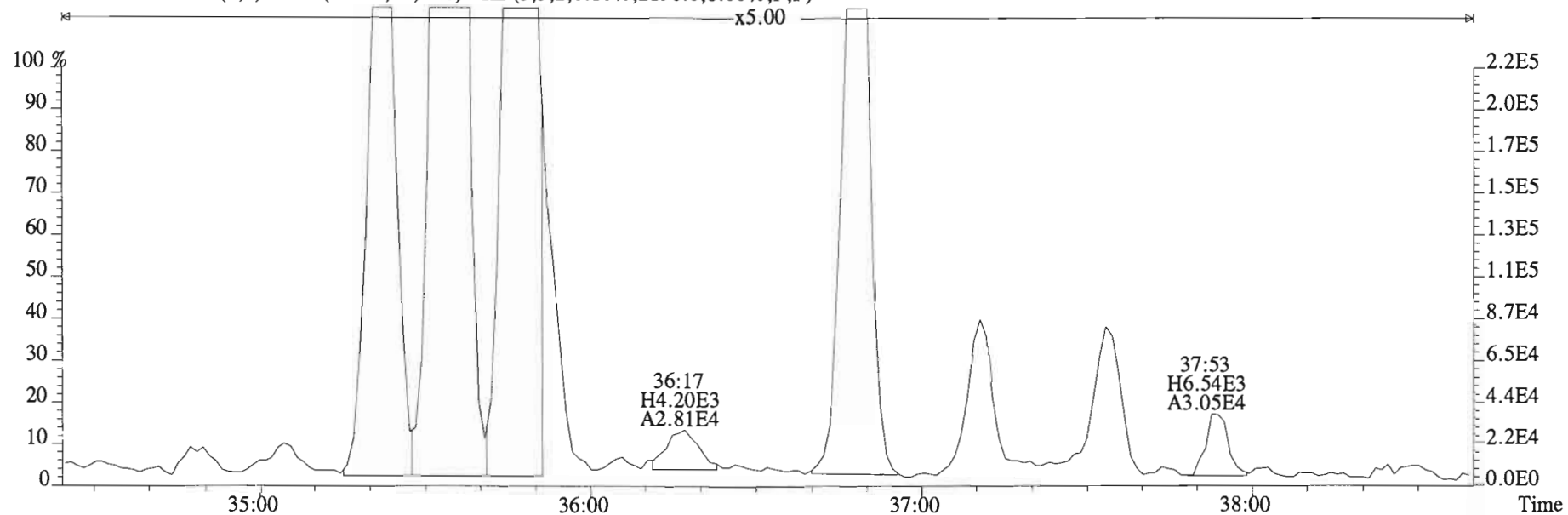
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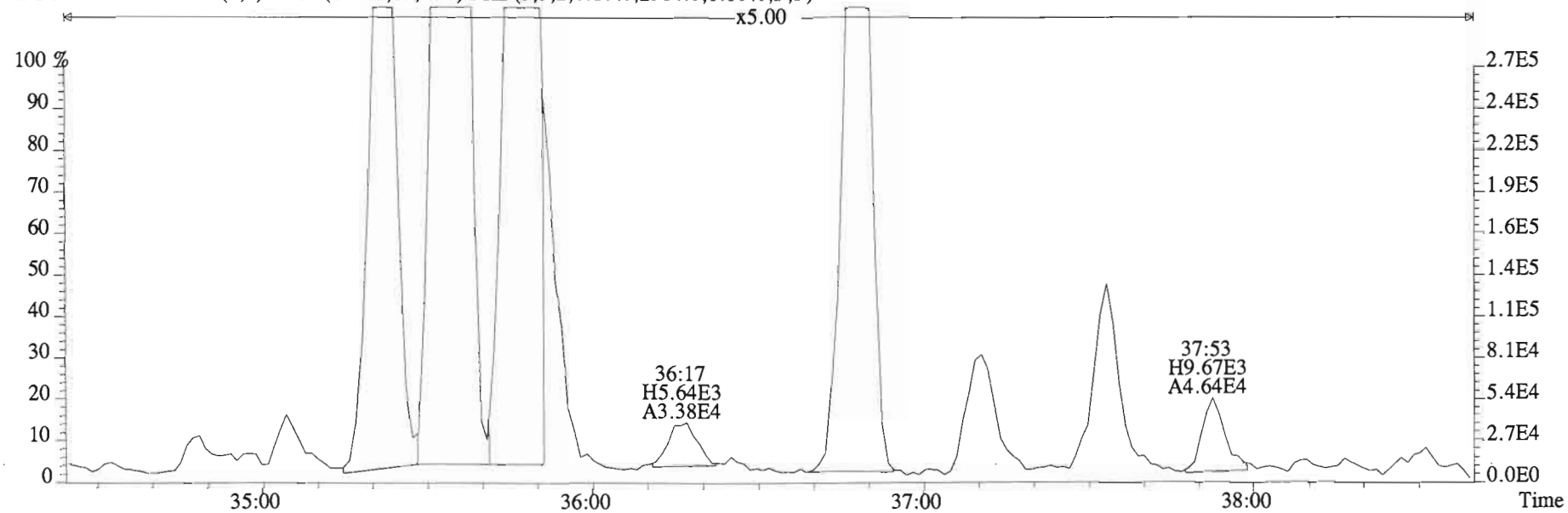
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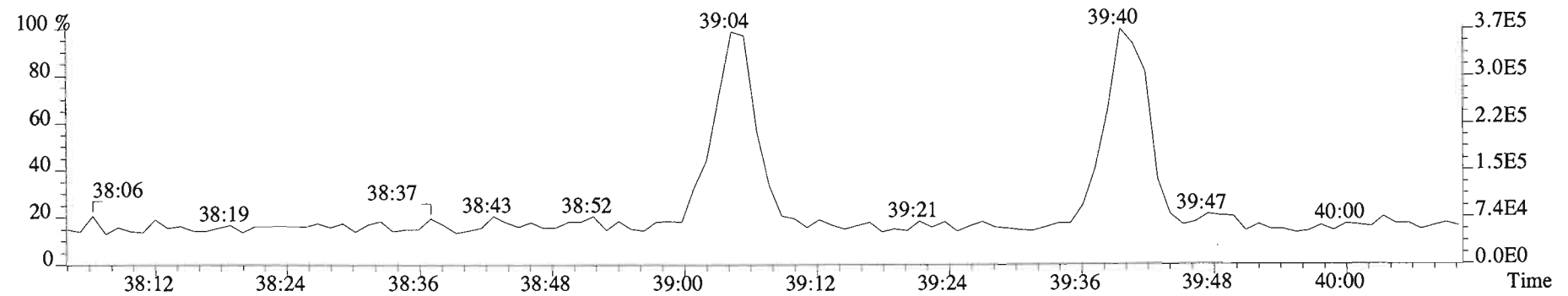
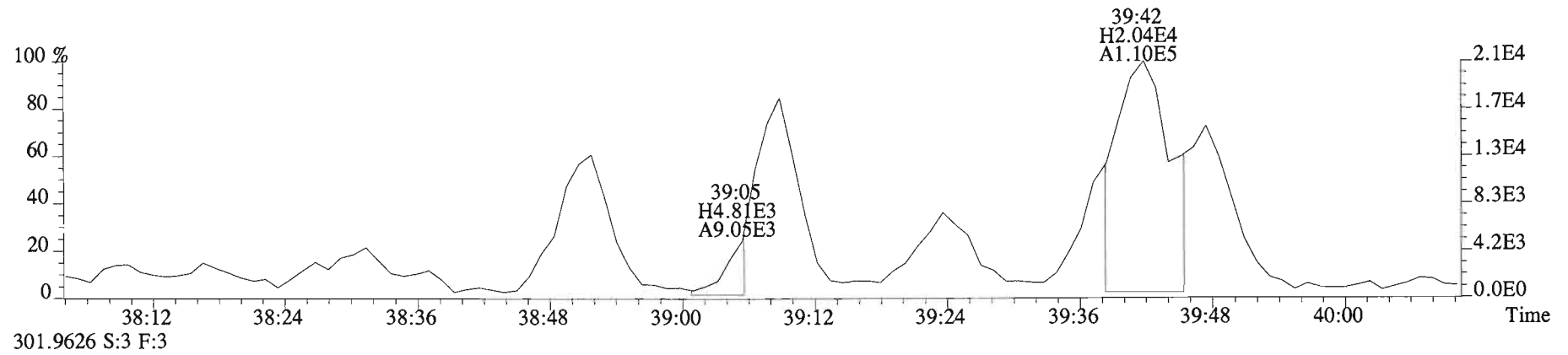
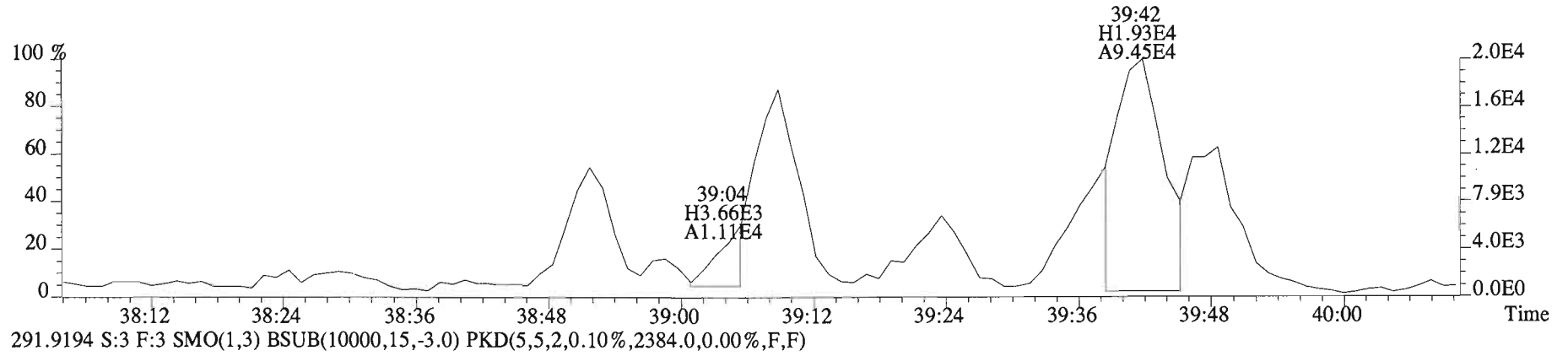
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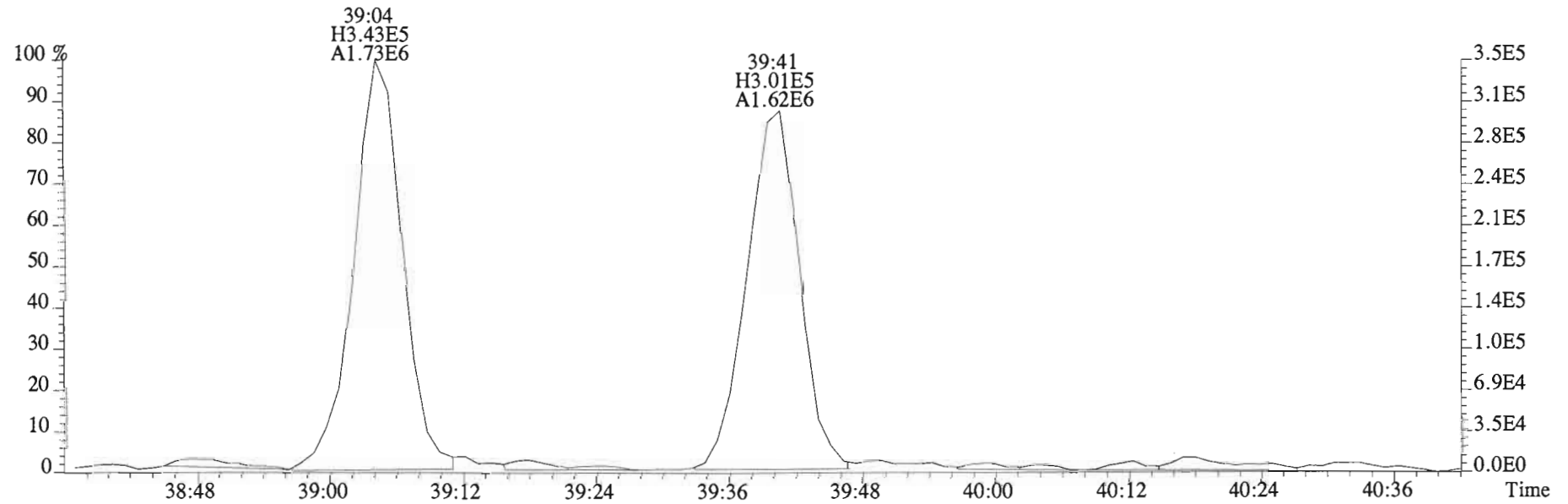
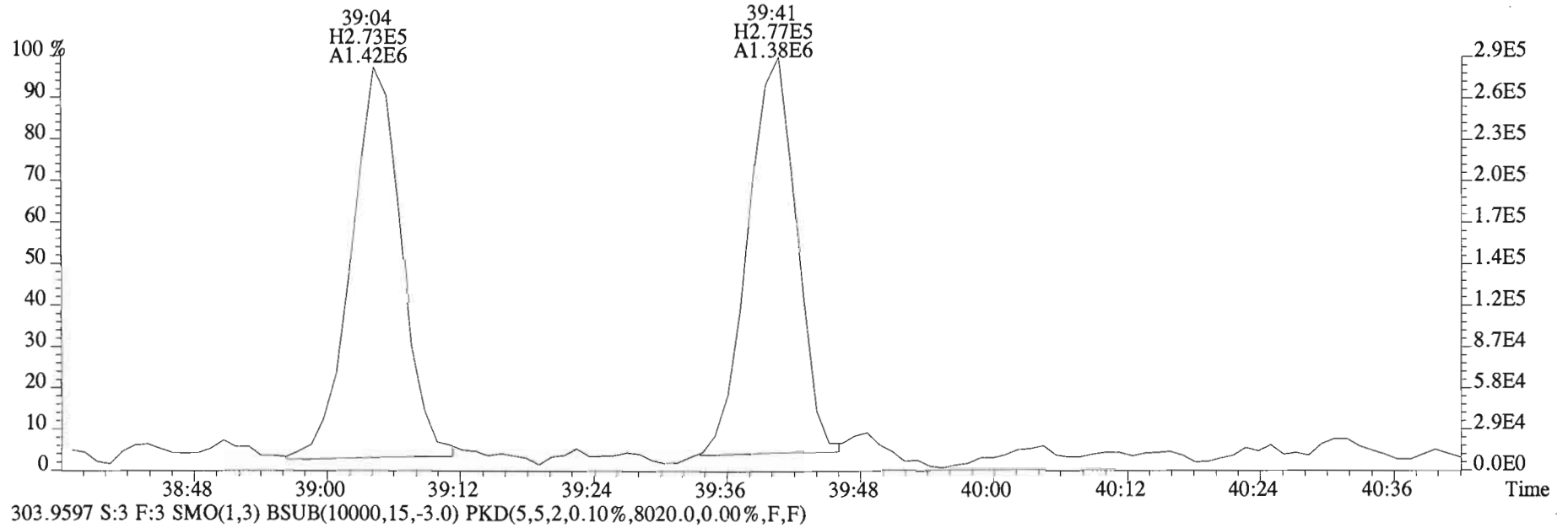
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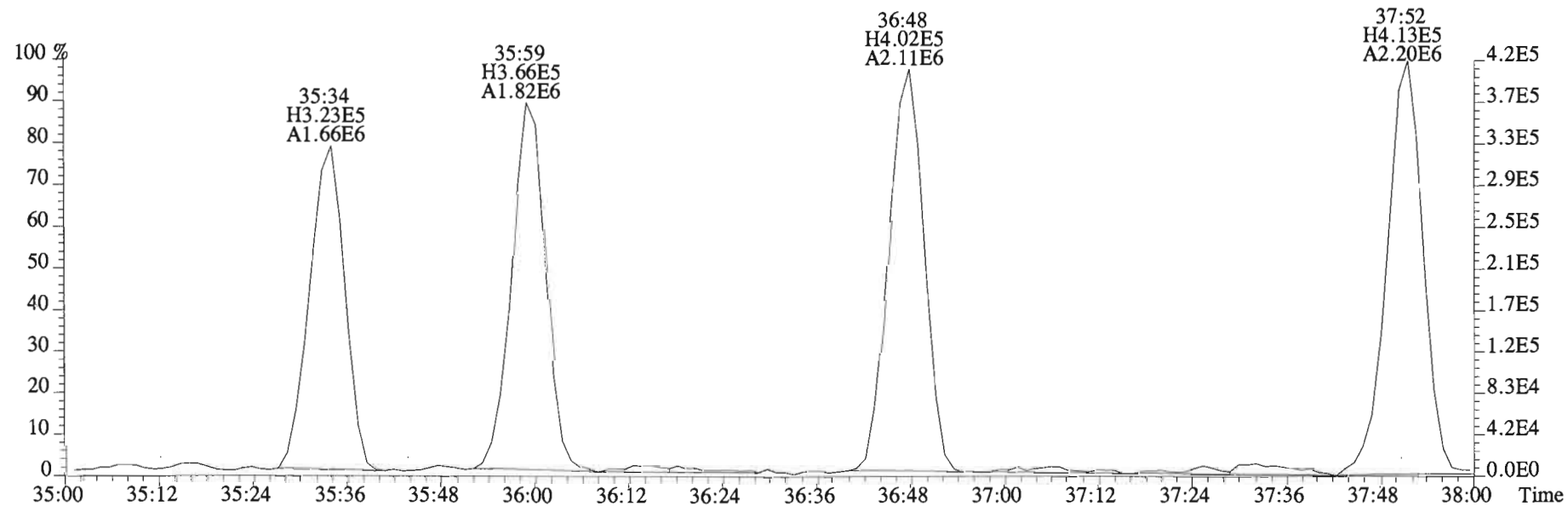
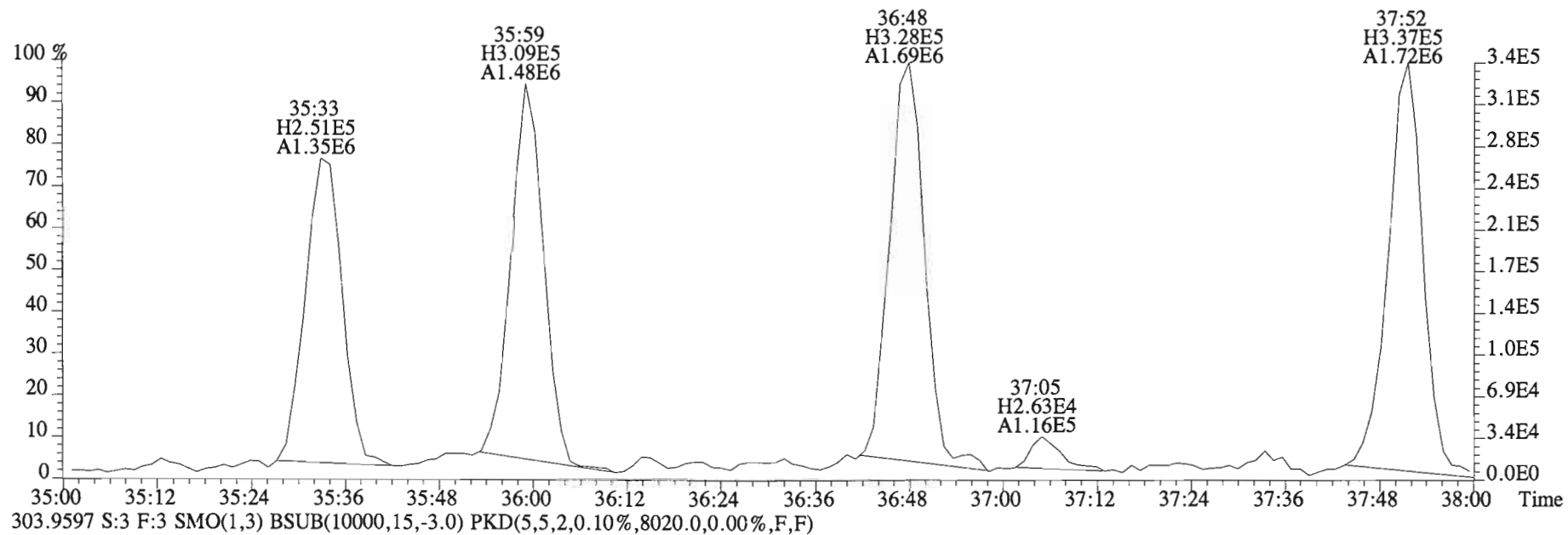
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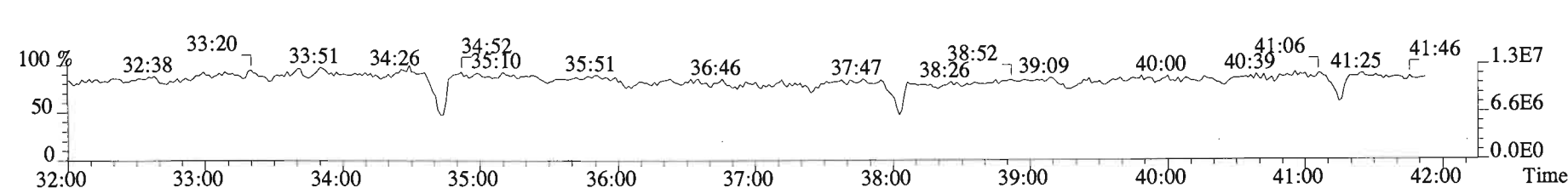
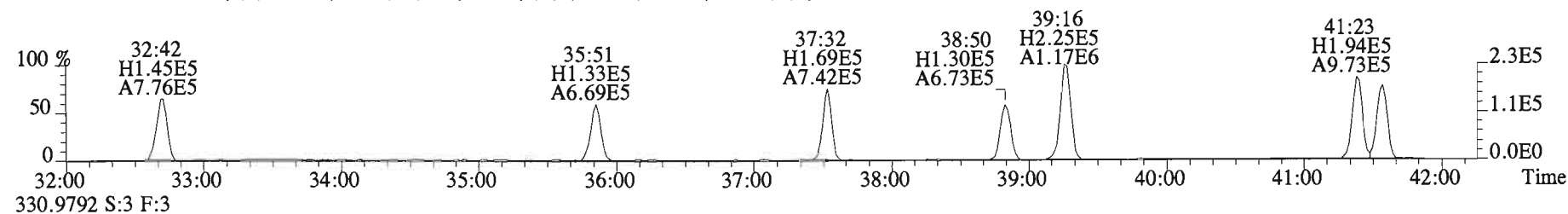
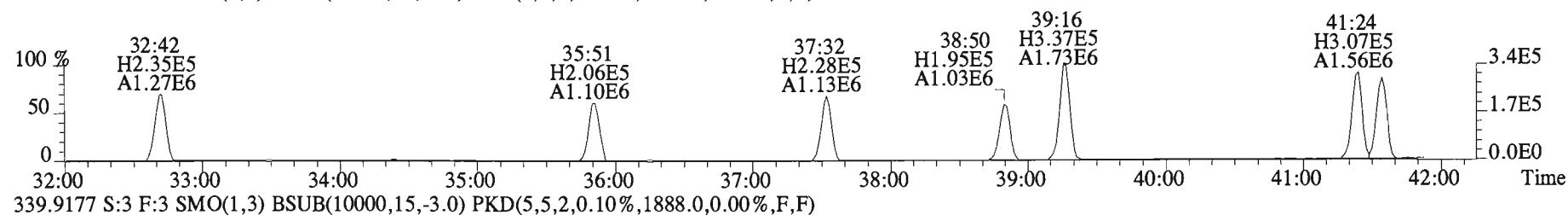
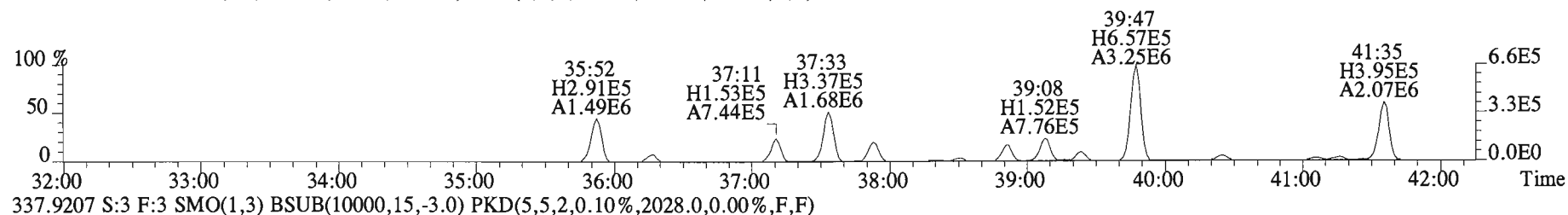
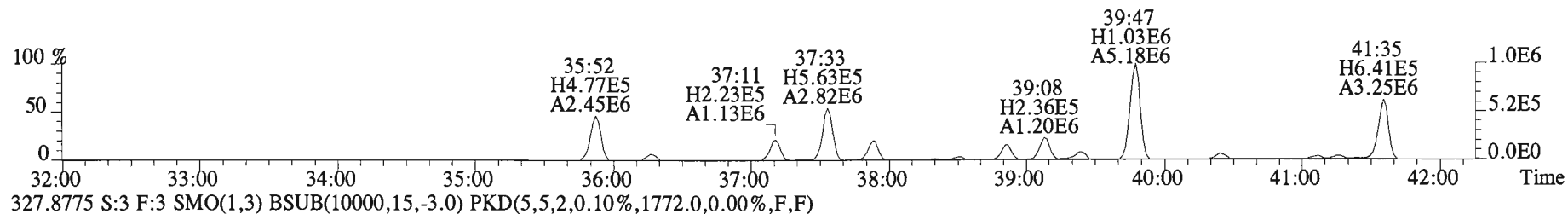
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301.9626 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,14896.0,0.00%,F,F)



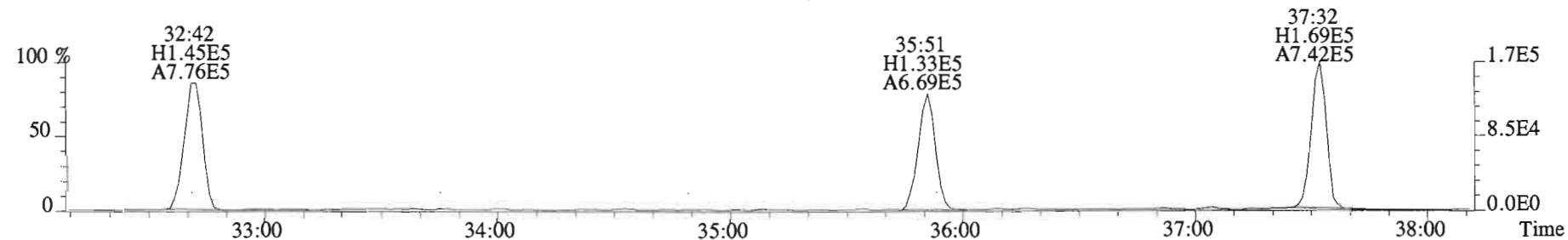
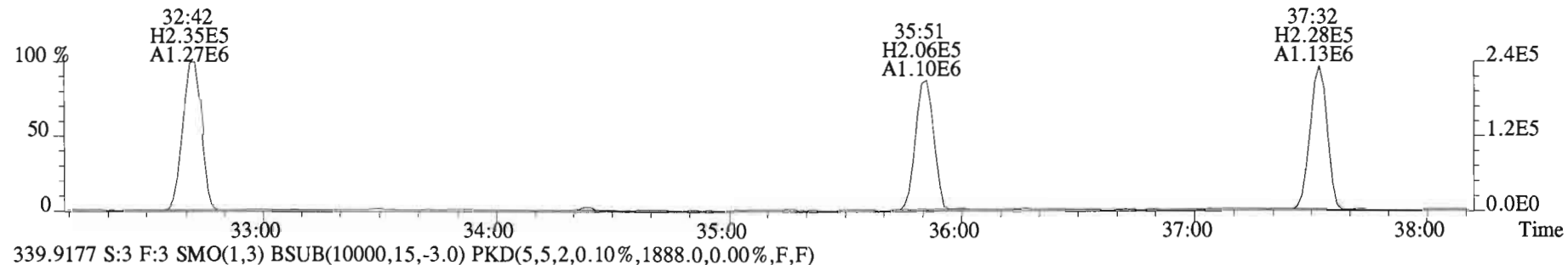
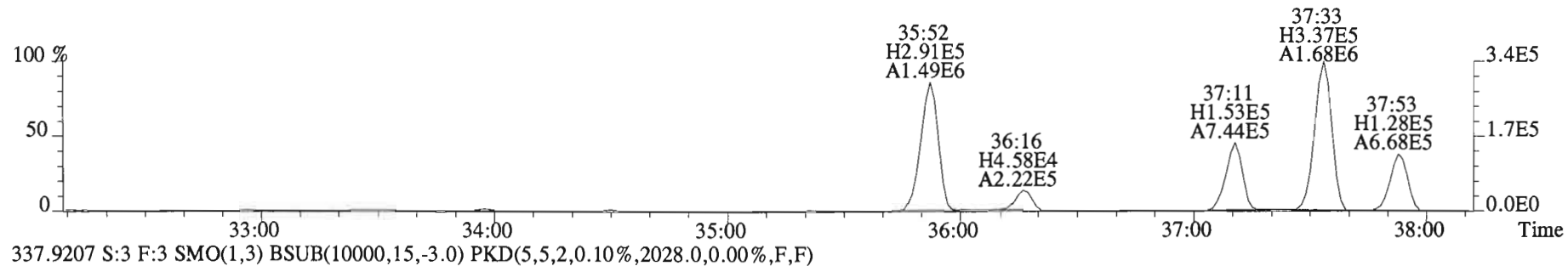
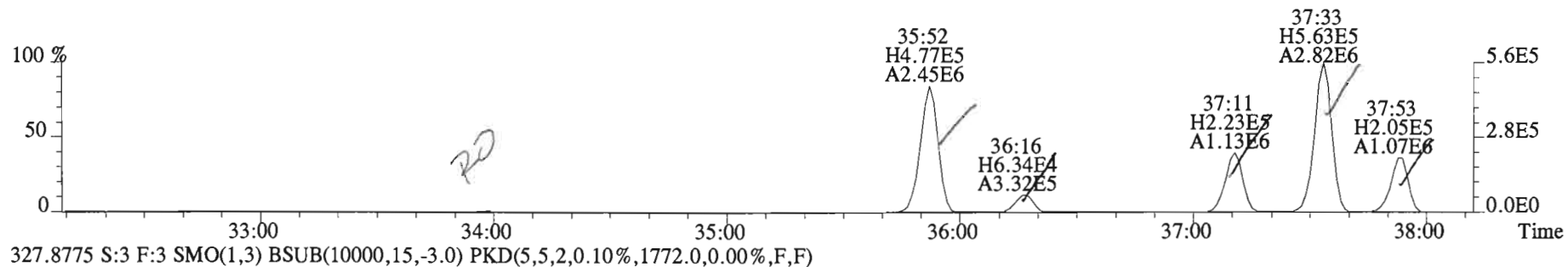
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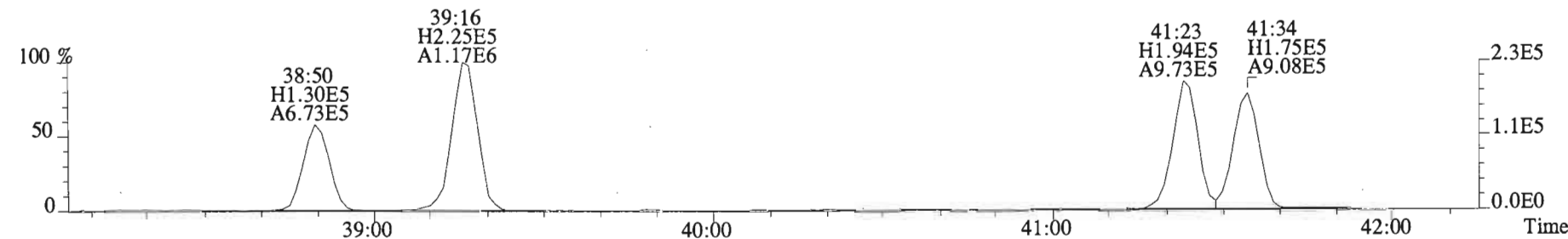
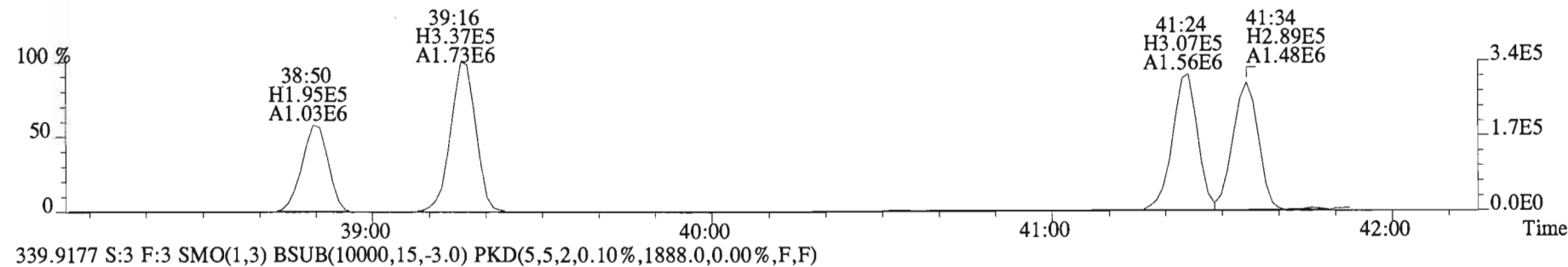
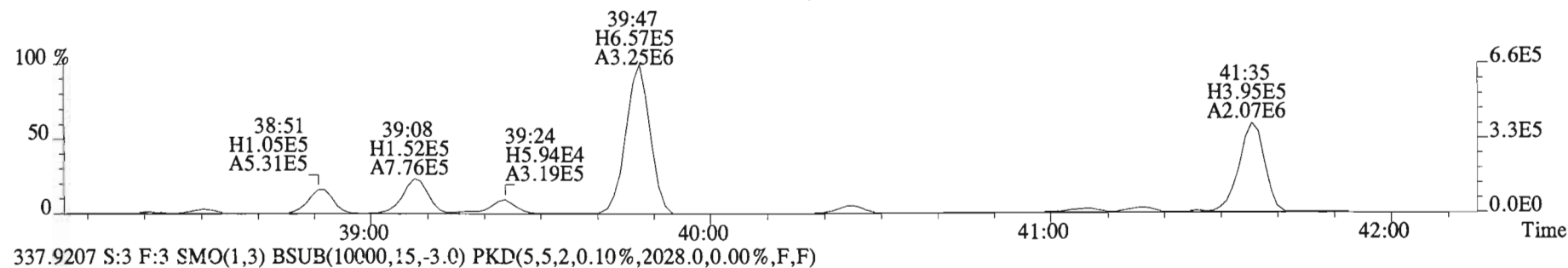
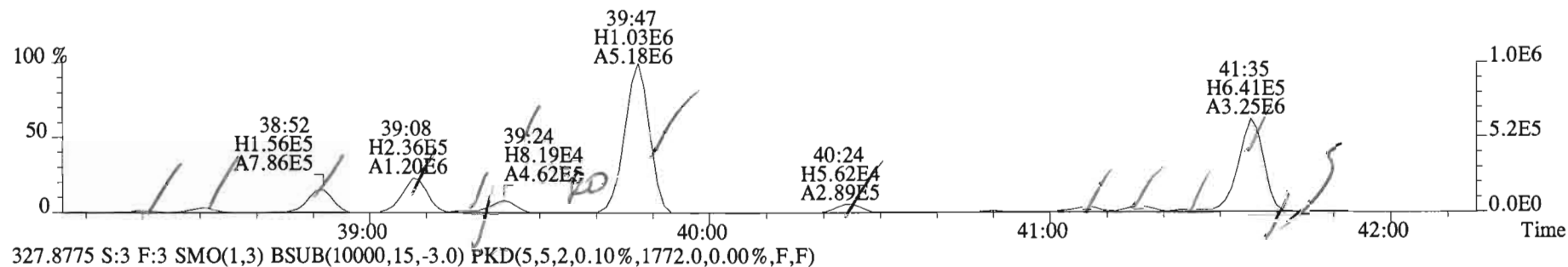
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
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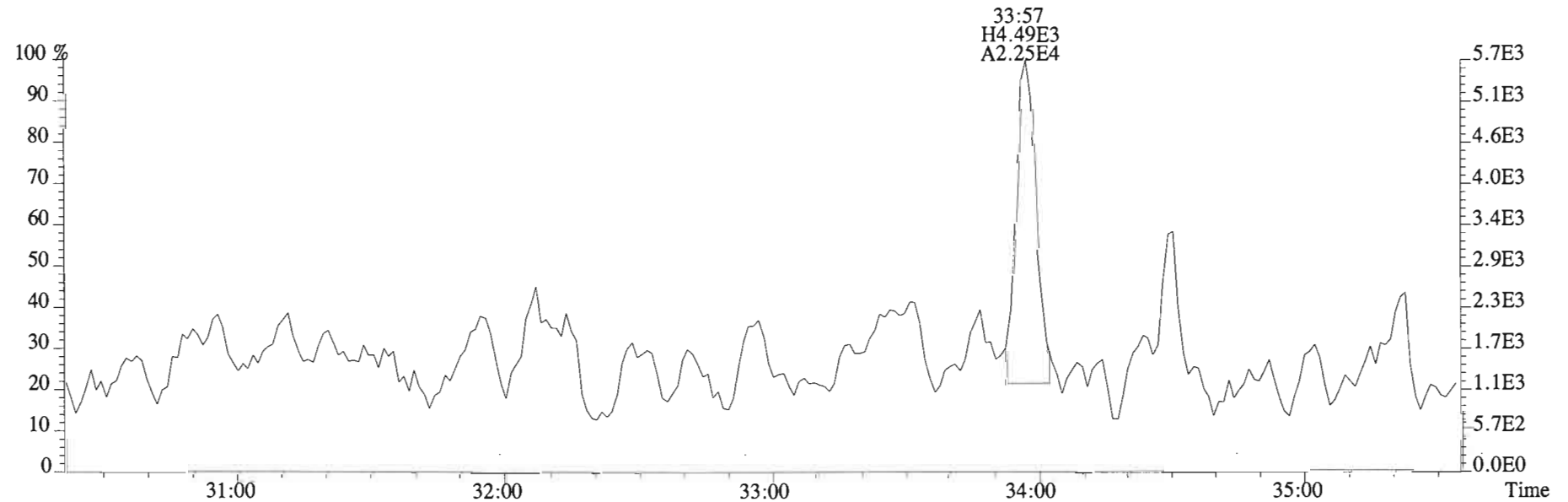
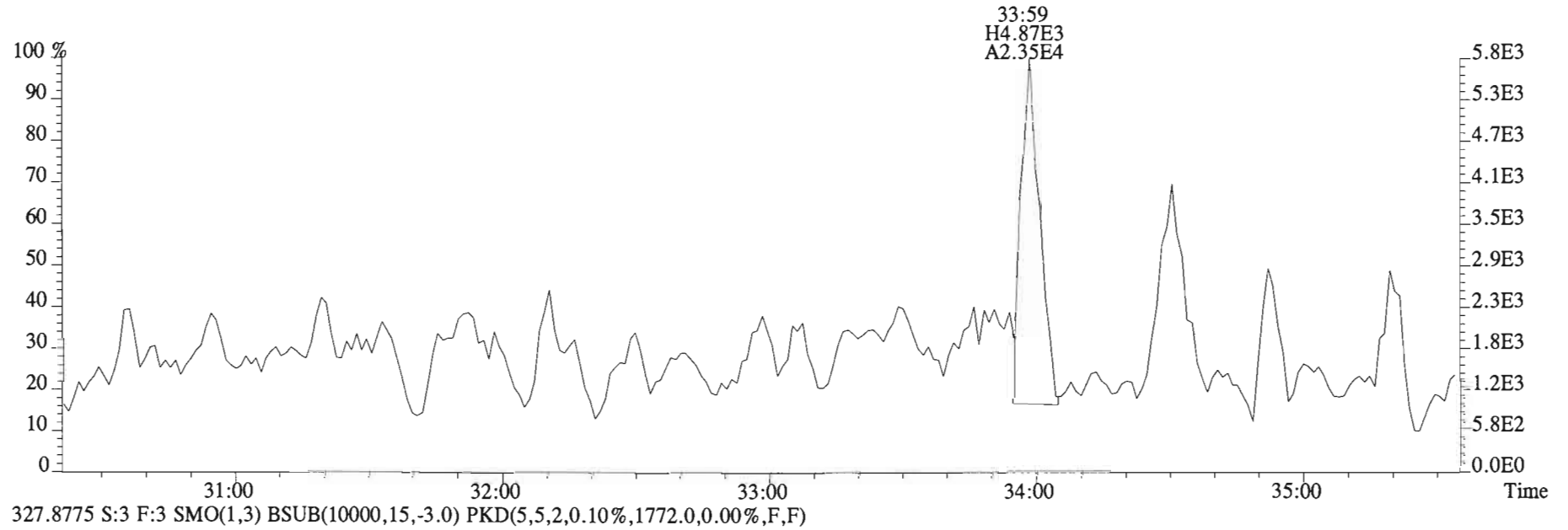
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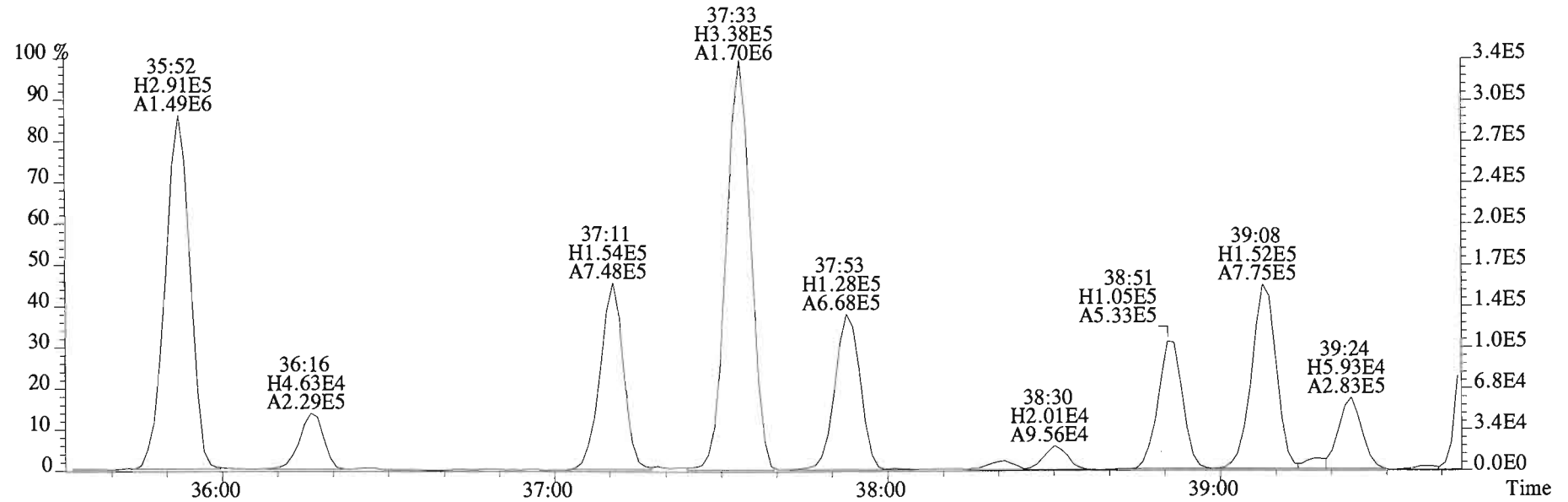
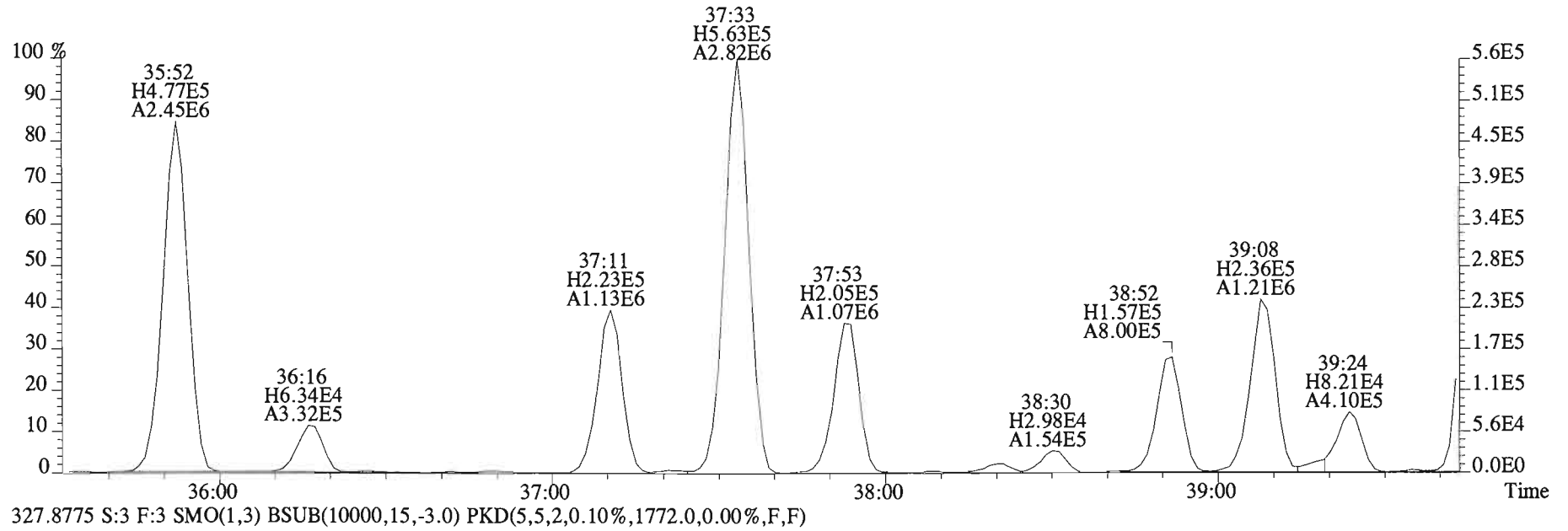
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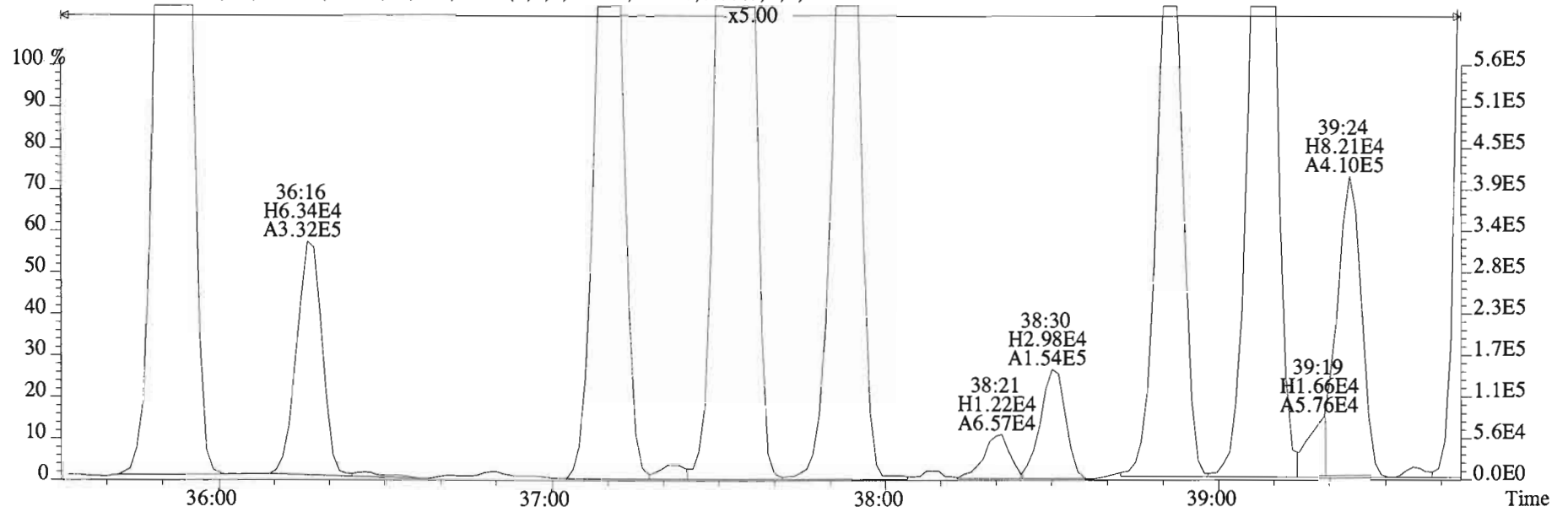
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
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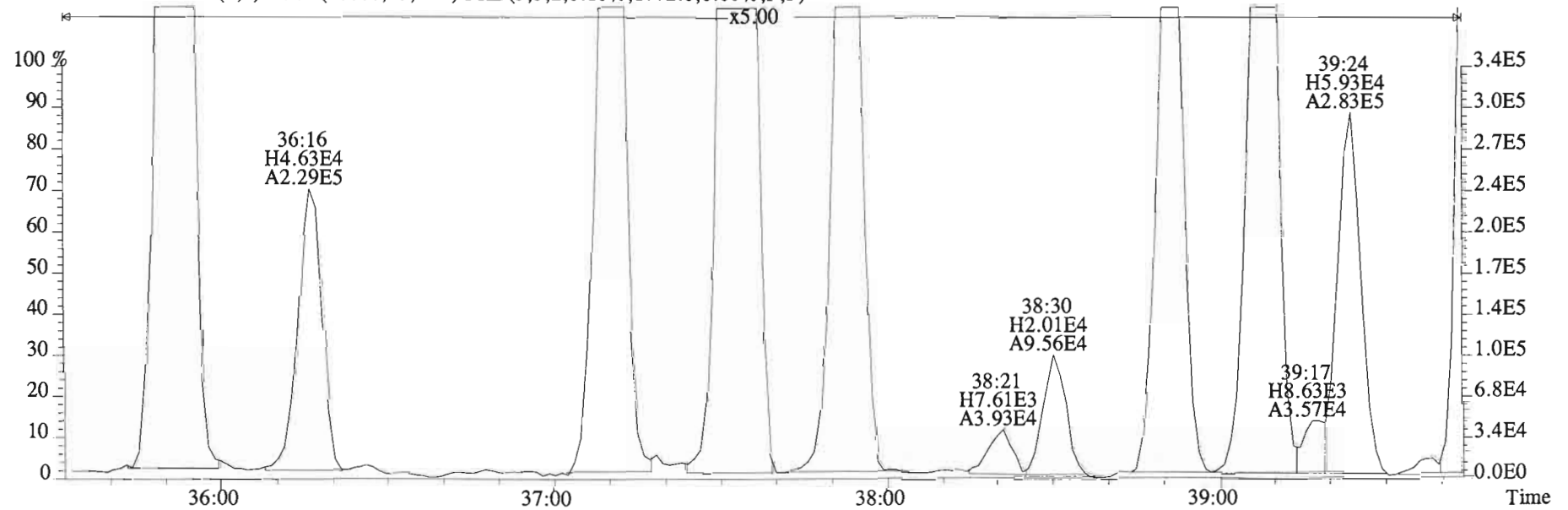
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
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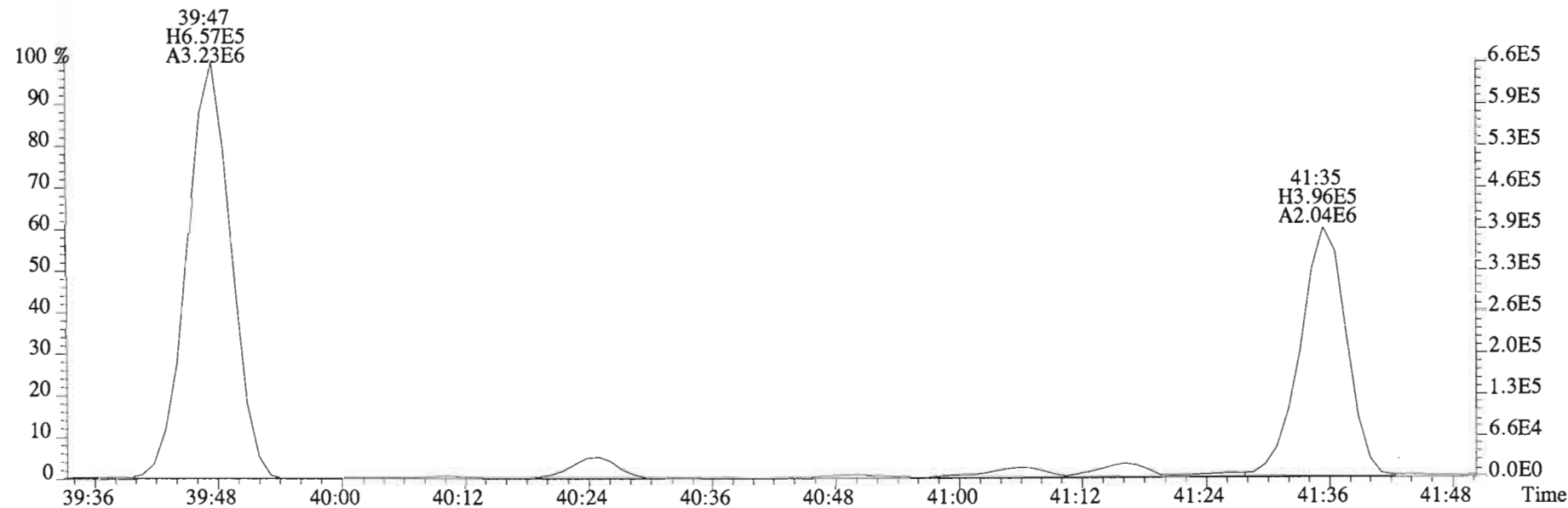
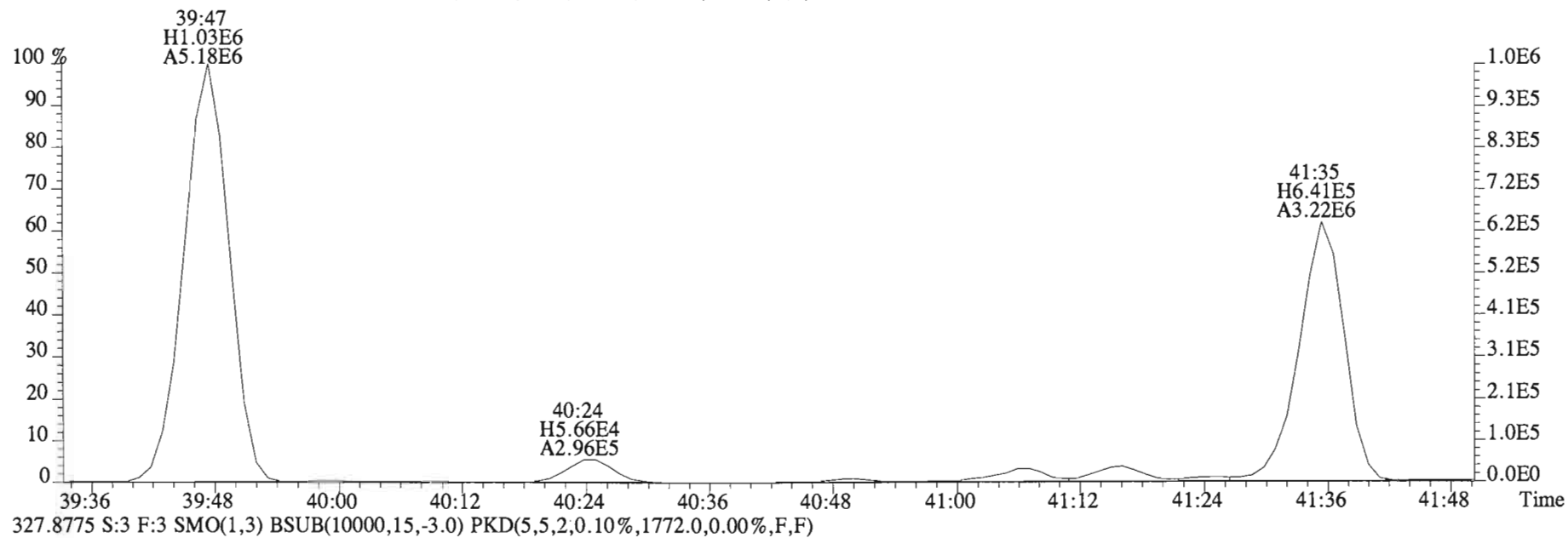
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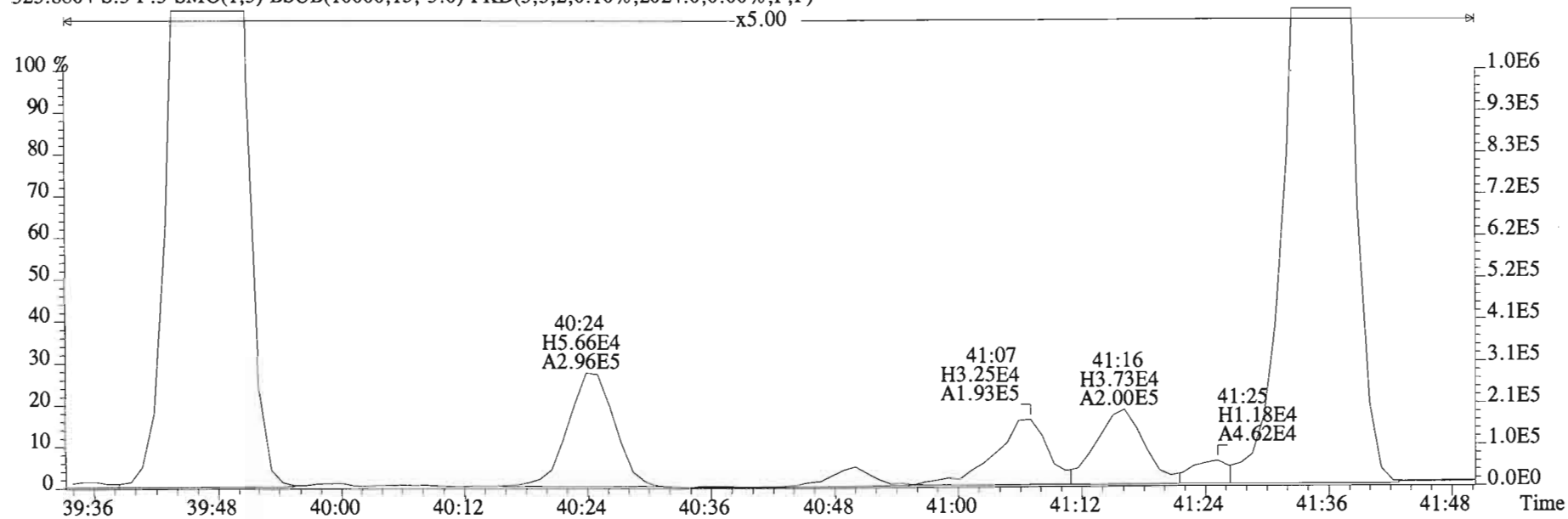
327.8775 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1772.0,0.00%,F,F)



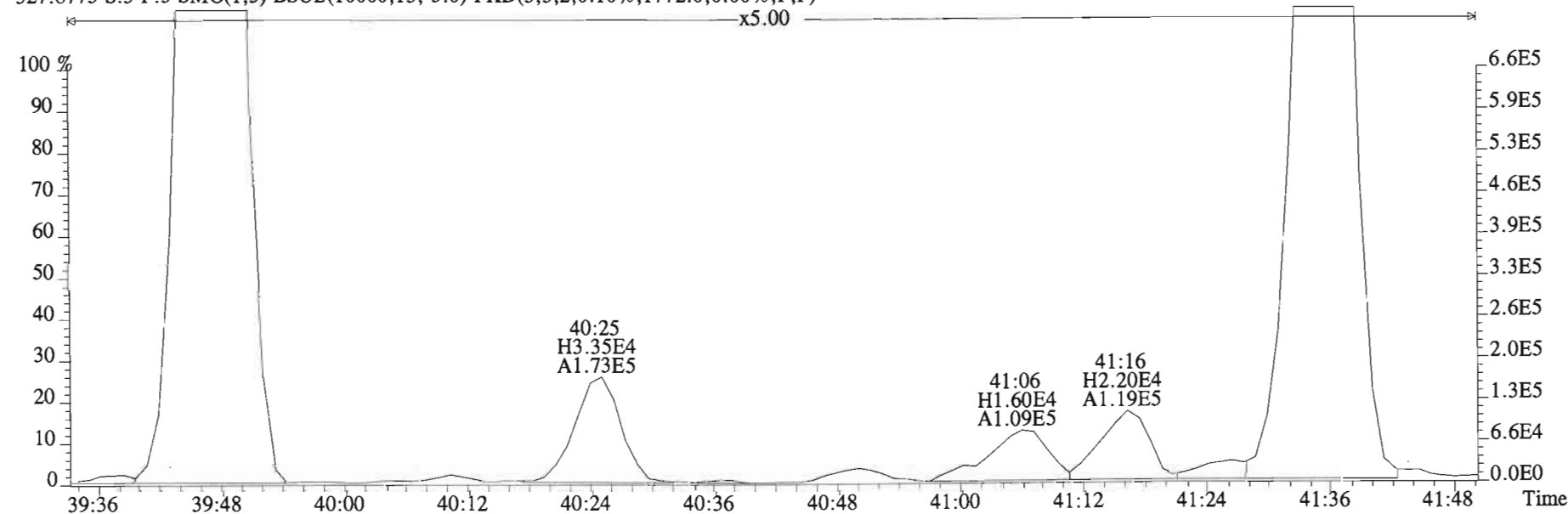
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
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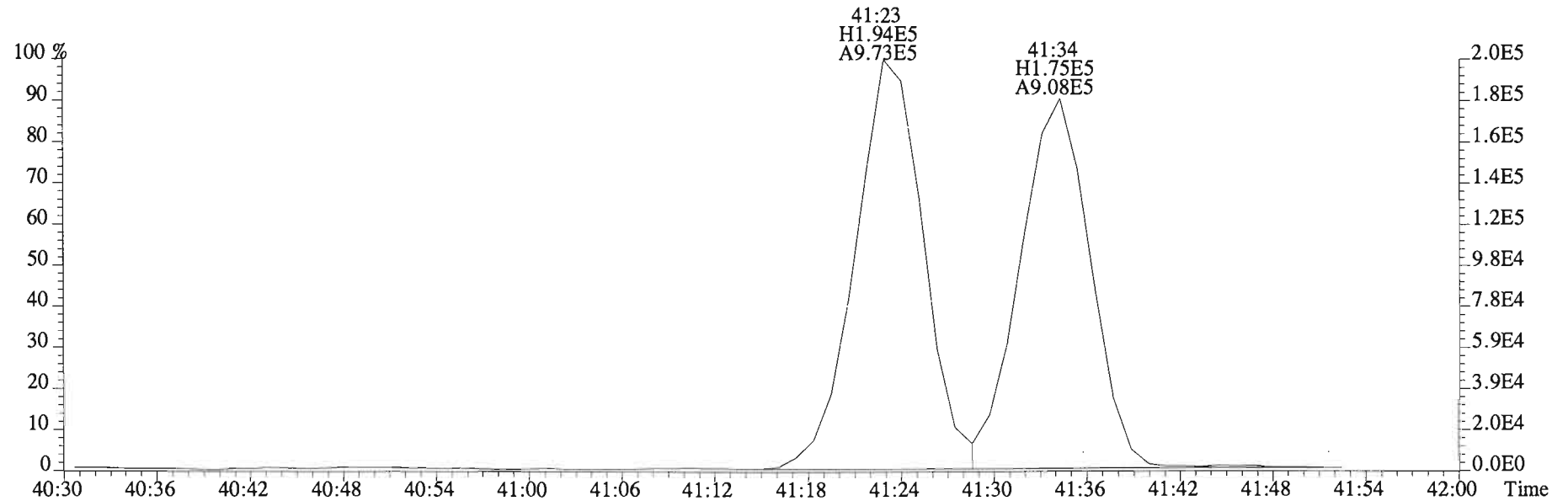
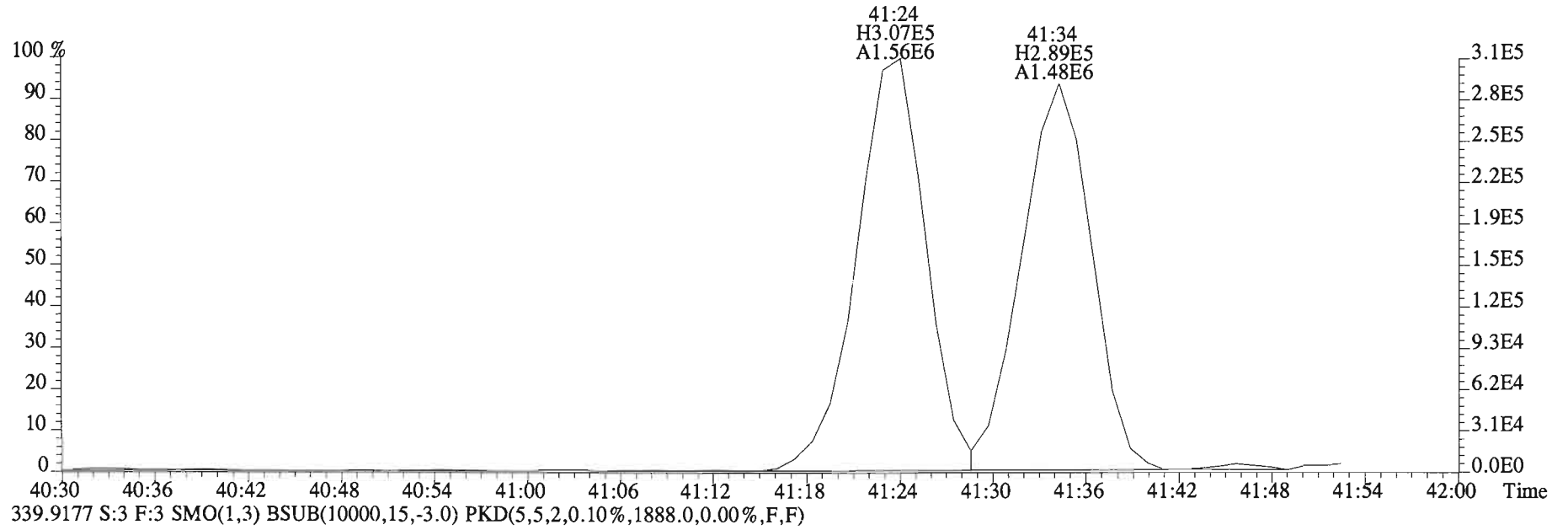
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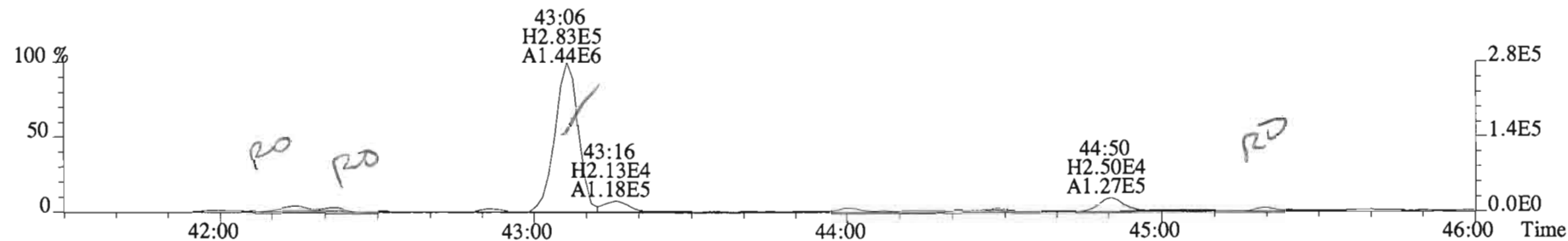
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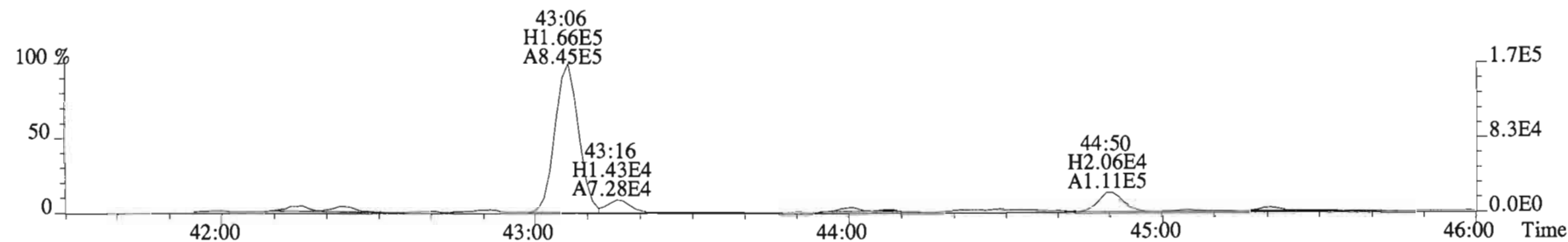
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
337.9207 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2028.0,0.00%,F,F)



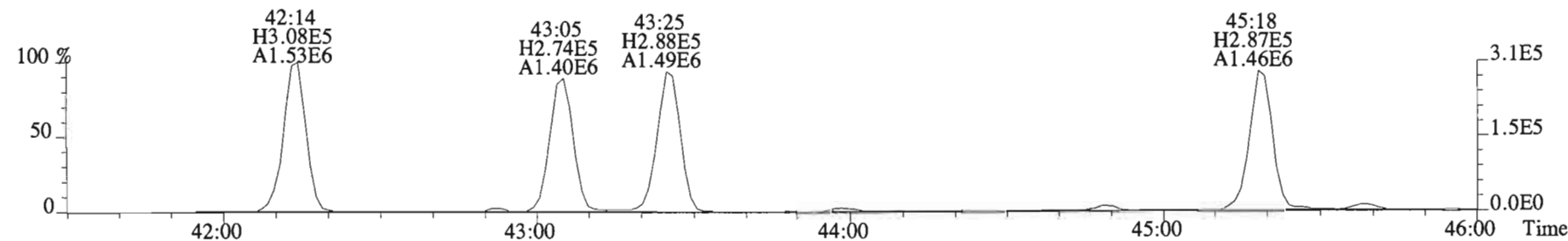
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
325.8804 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2960.0,0.00%,F,F)



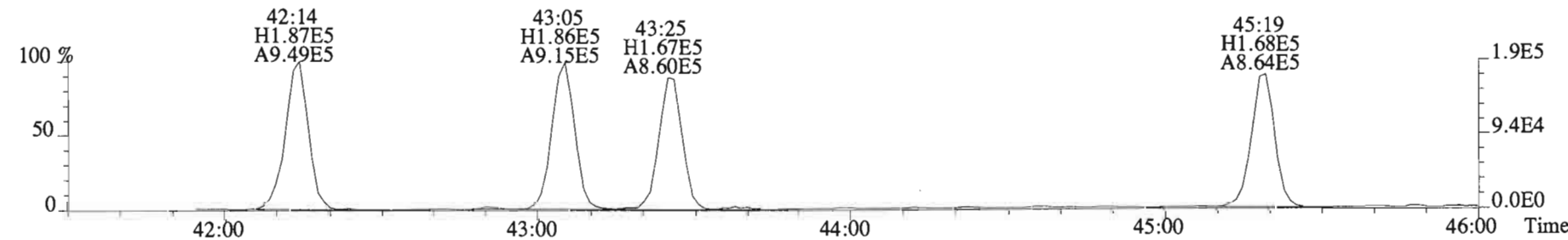
327.8775 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2416.0,0.00%,F,F)



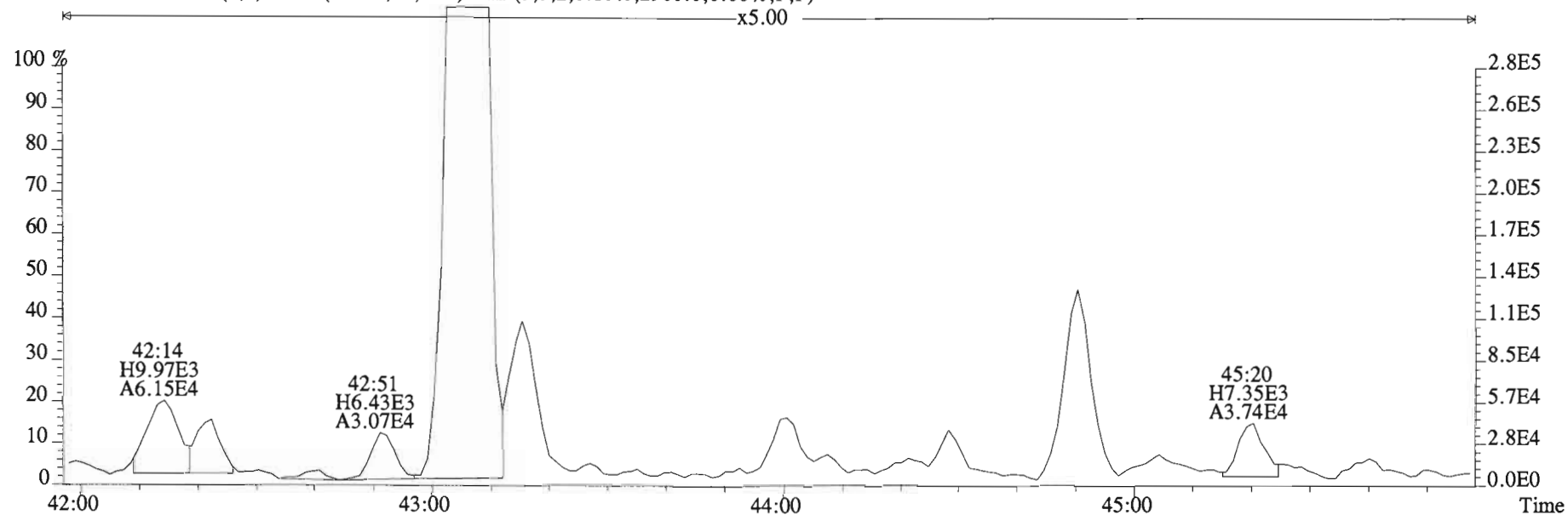
337.9207 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2224.0,0.00%,F,F)



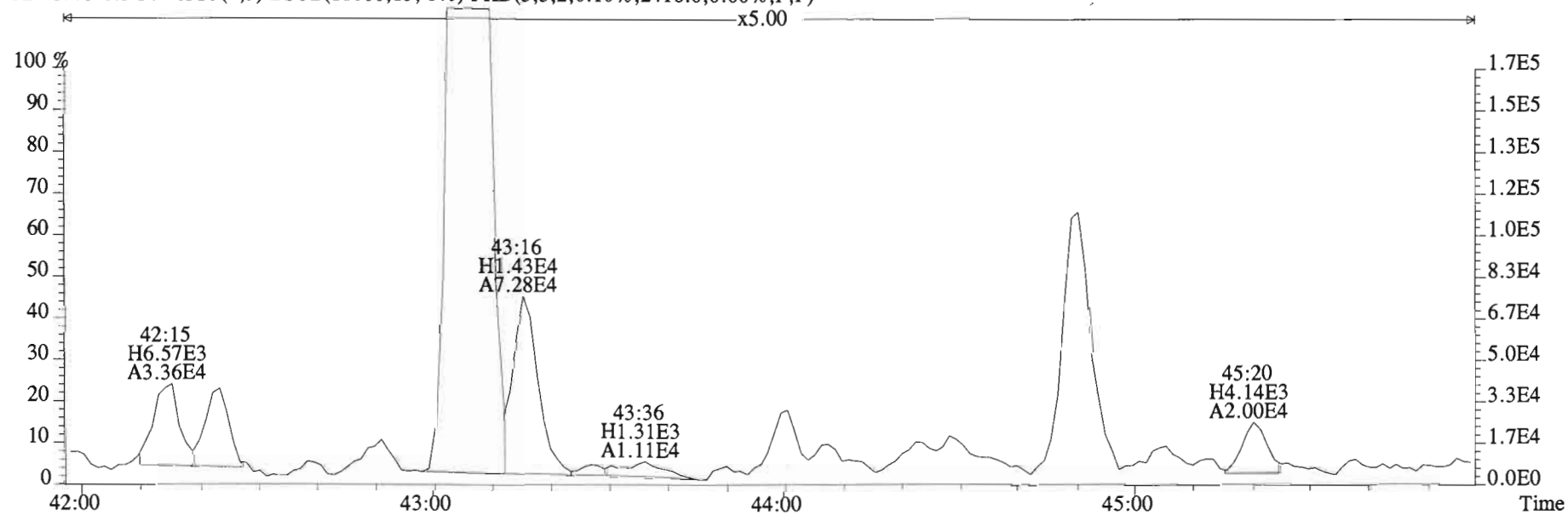
339.9177 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2224.0,0.00%,F,F)



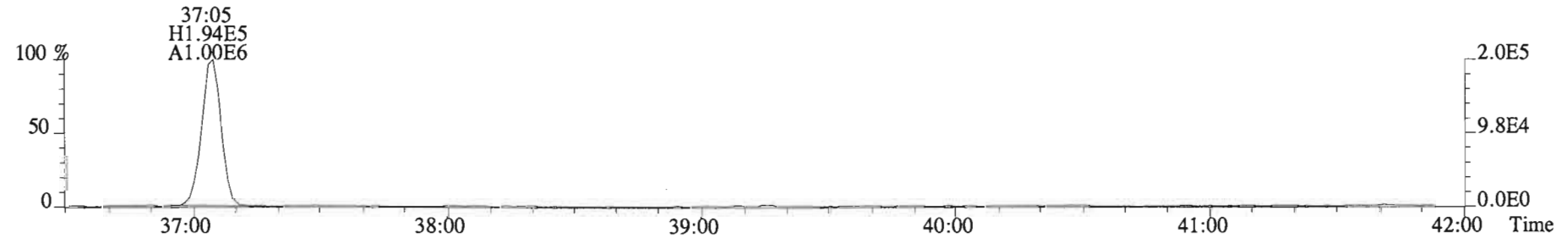
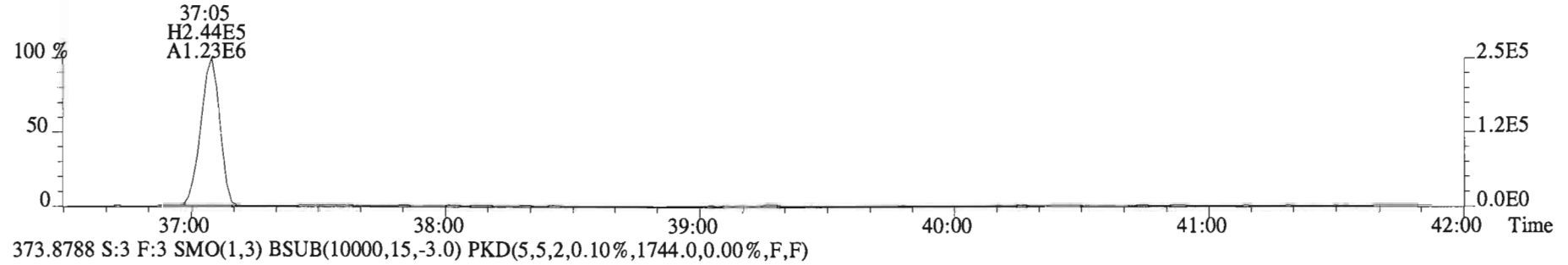
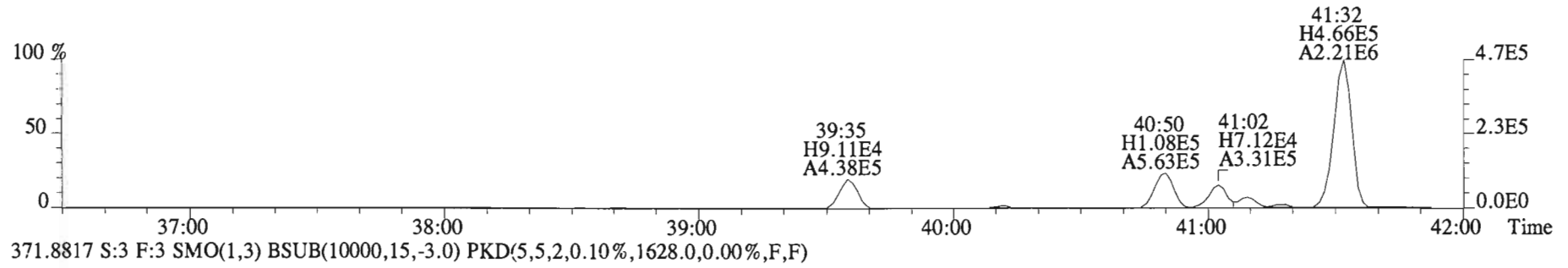
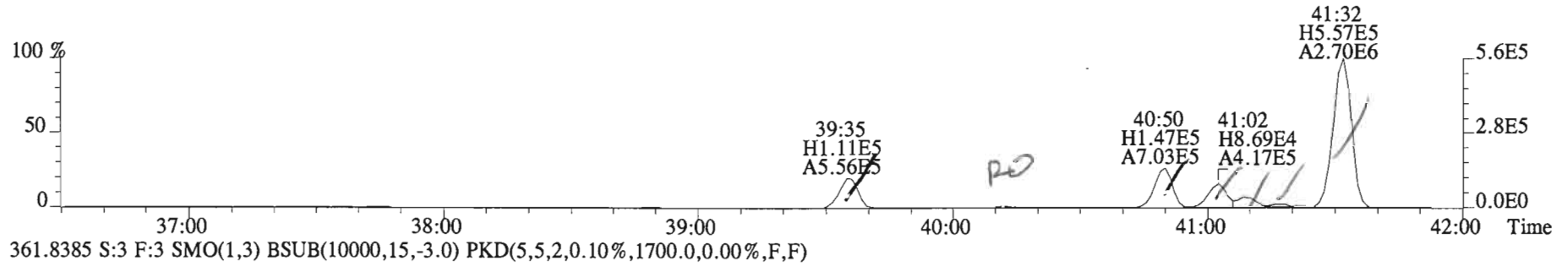
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
325.8804 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2960.0,0.00%,F,F)



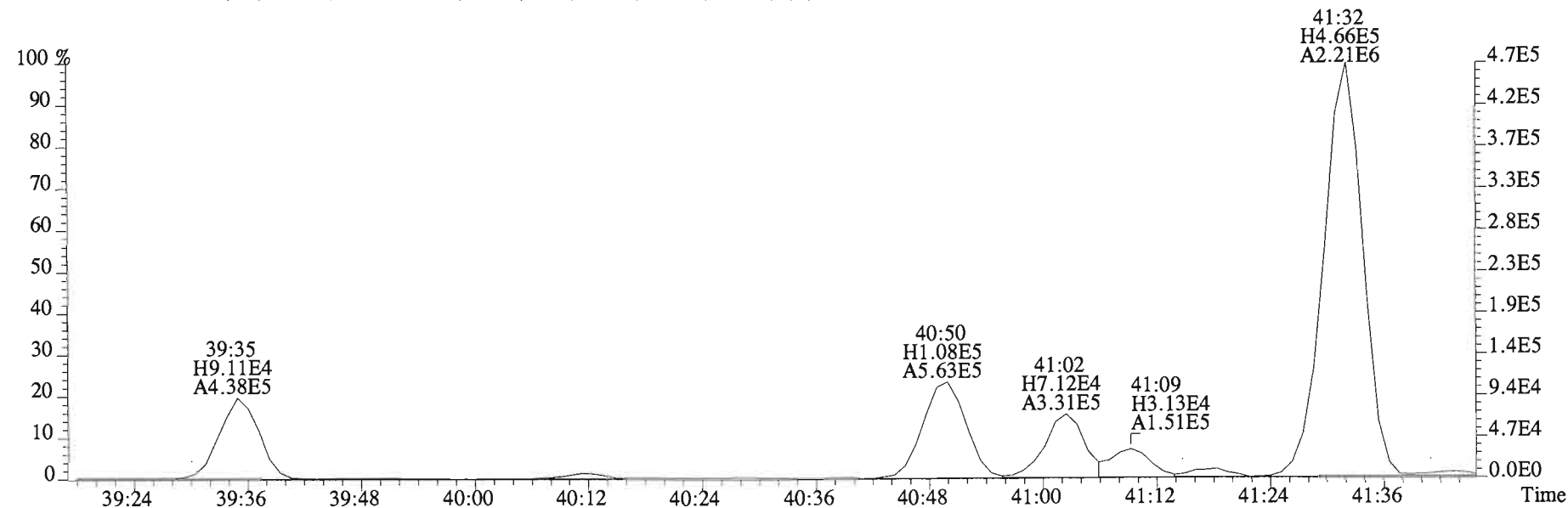
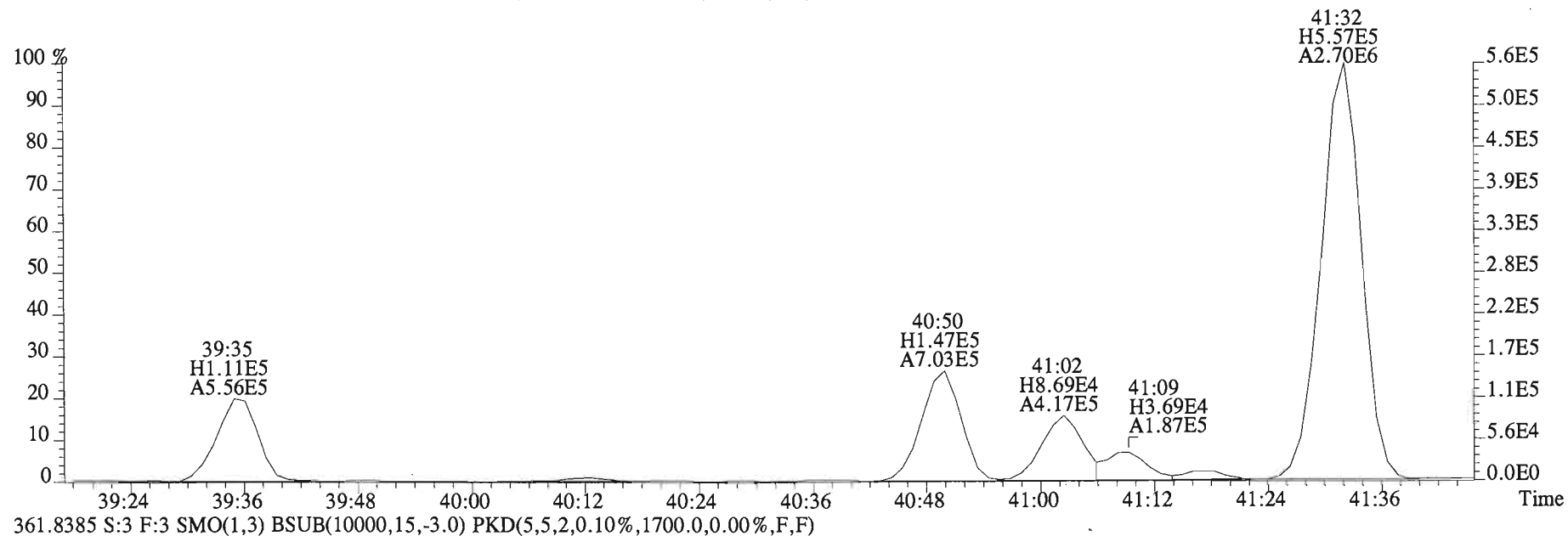
327.8775 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2416.0,0.00%,F,F)



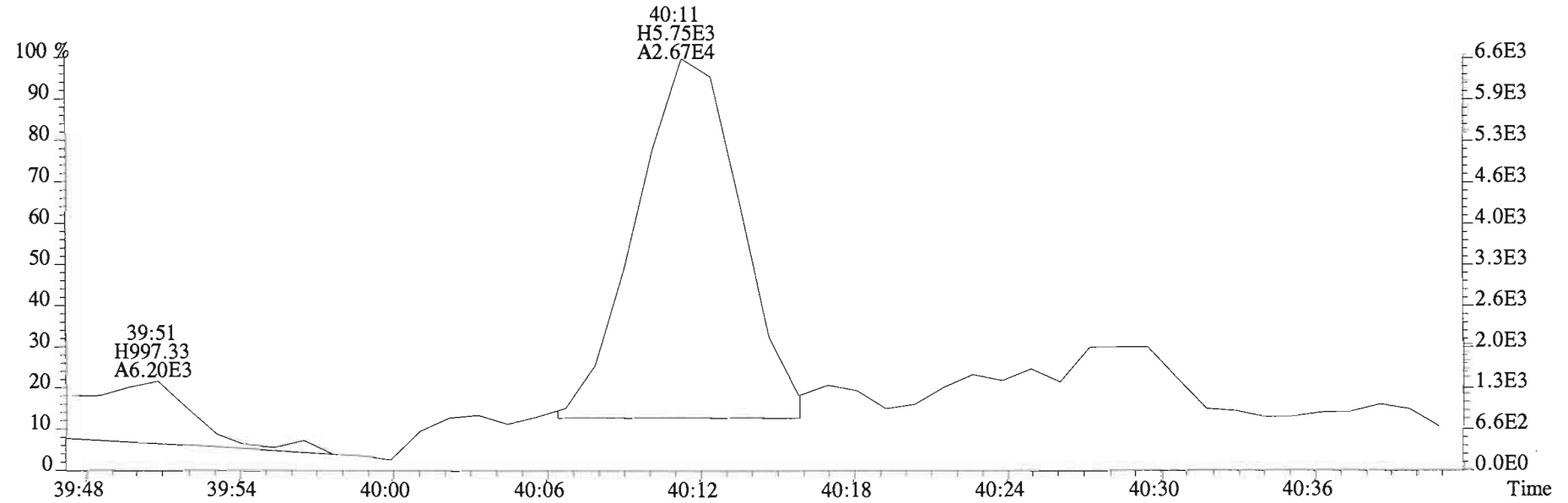
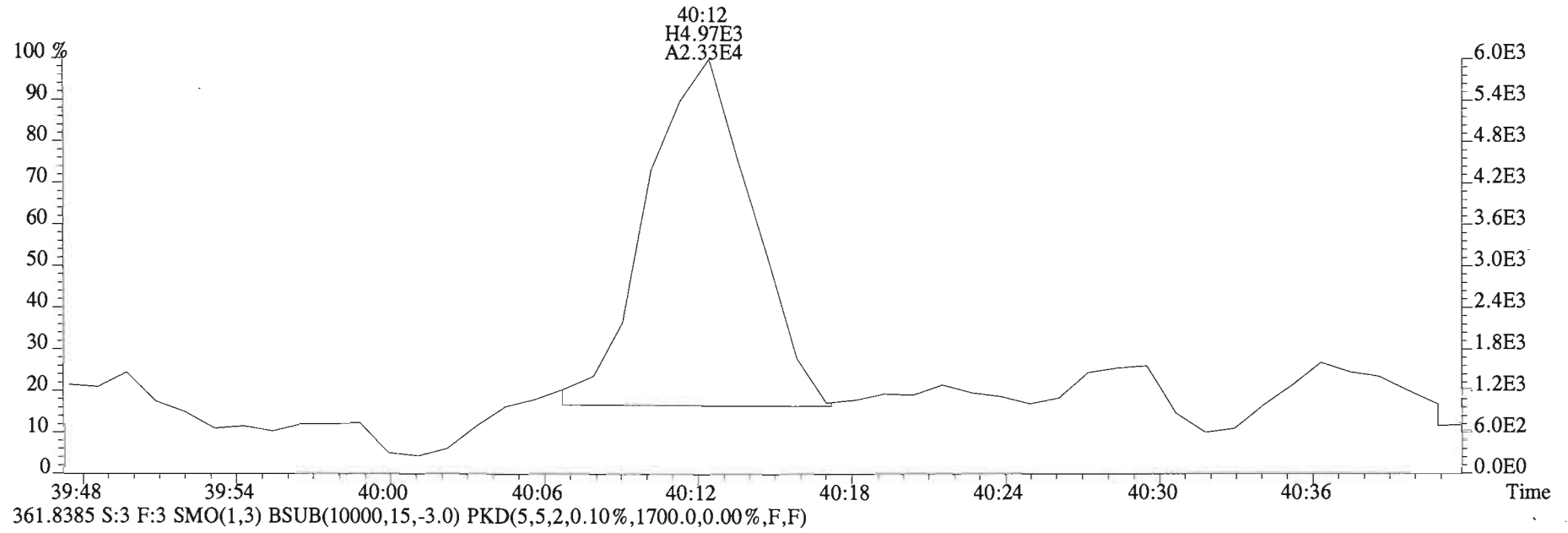
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
359.8415 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1724.0,0.00%,F,F)



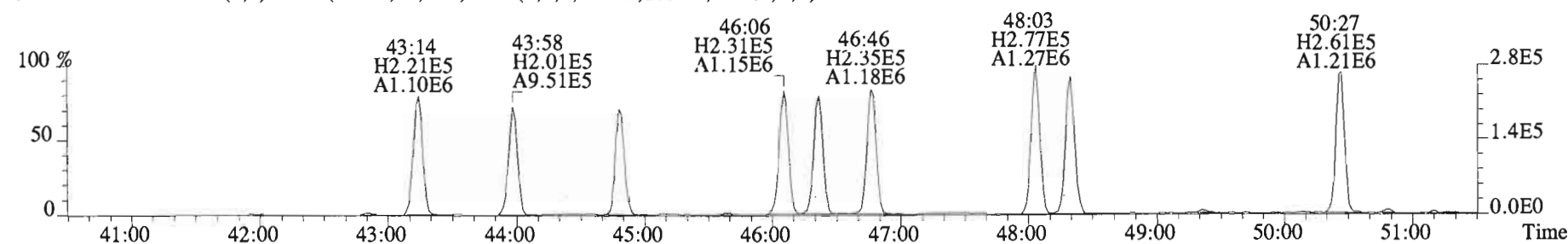
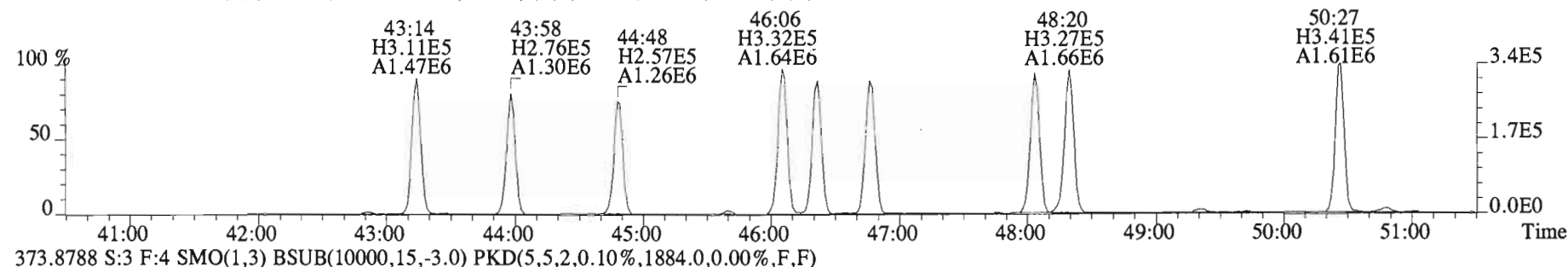
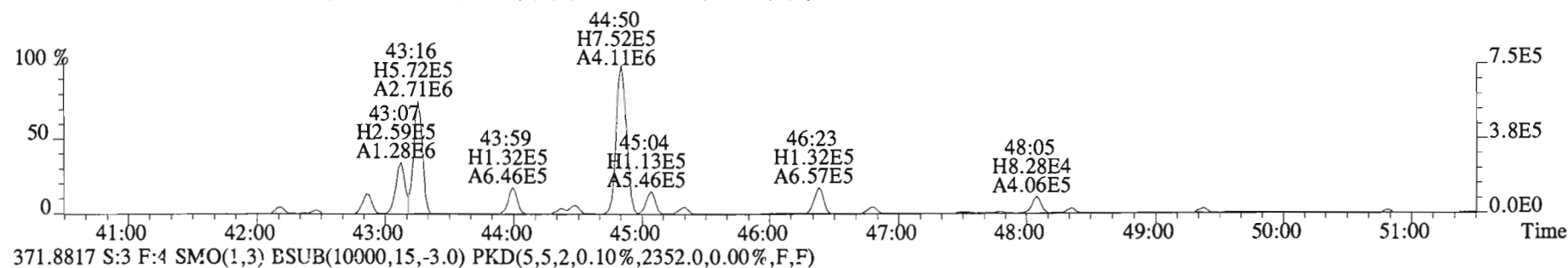
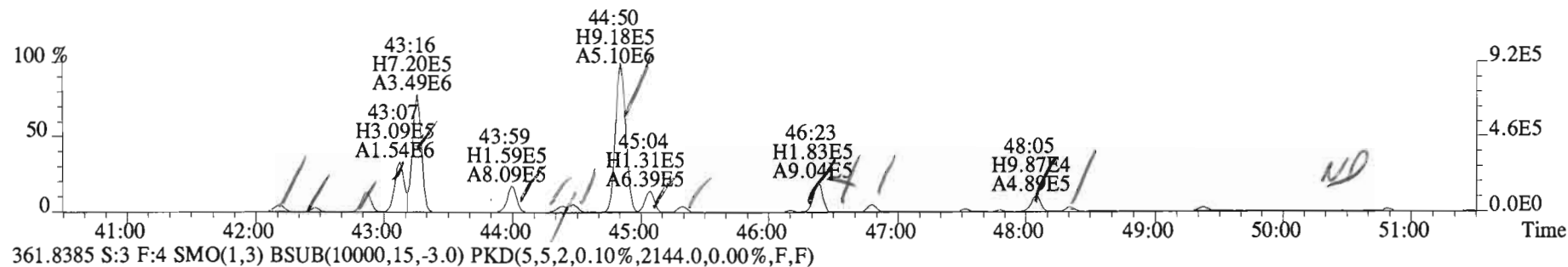
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
 359.8415 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1724.0,0.00%,F,F)



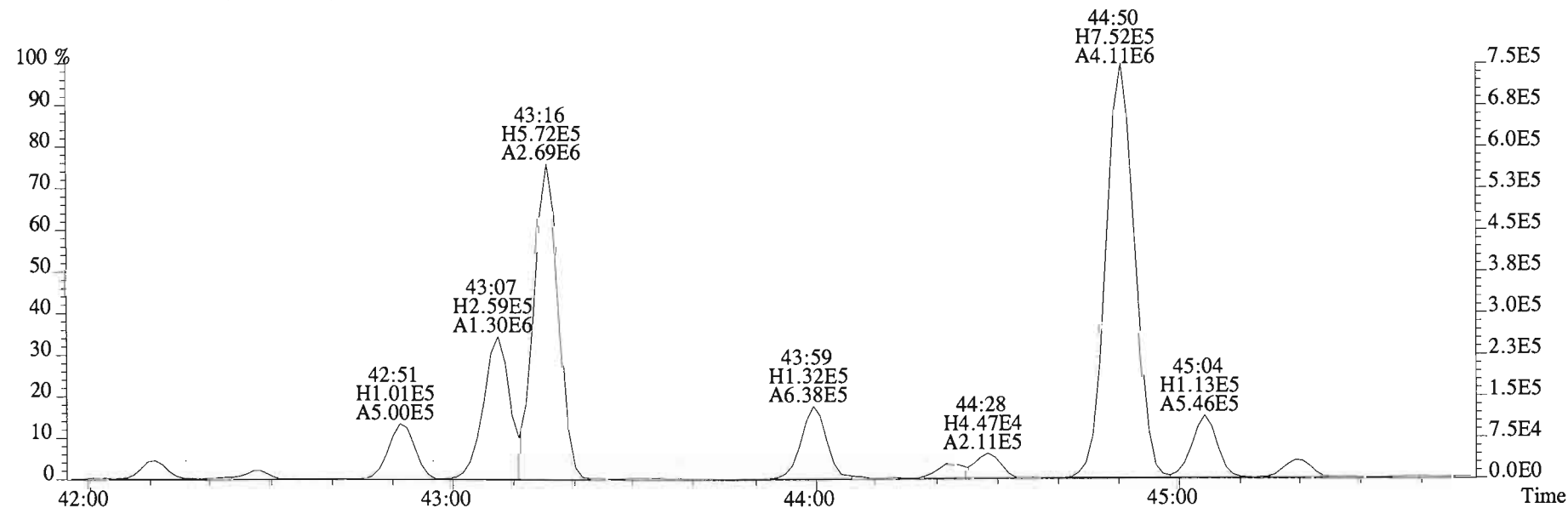
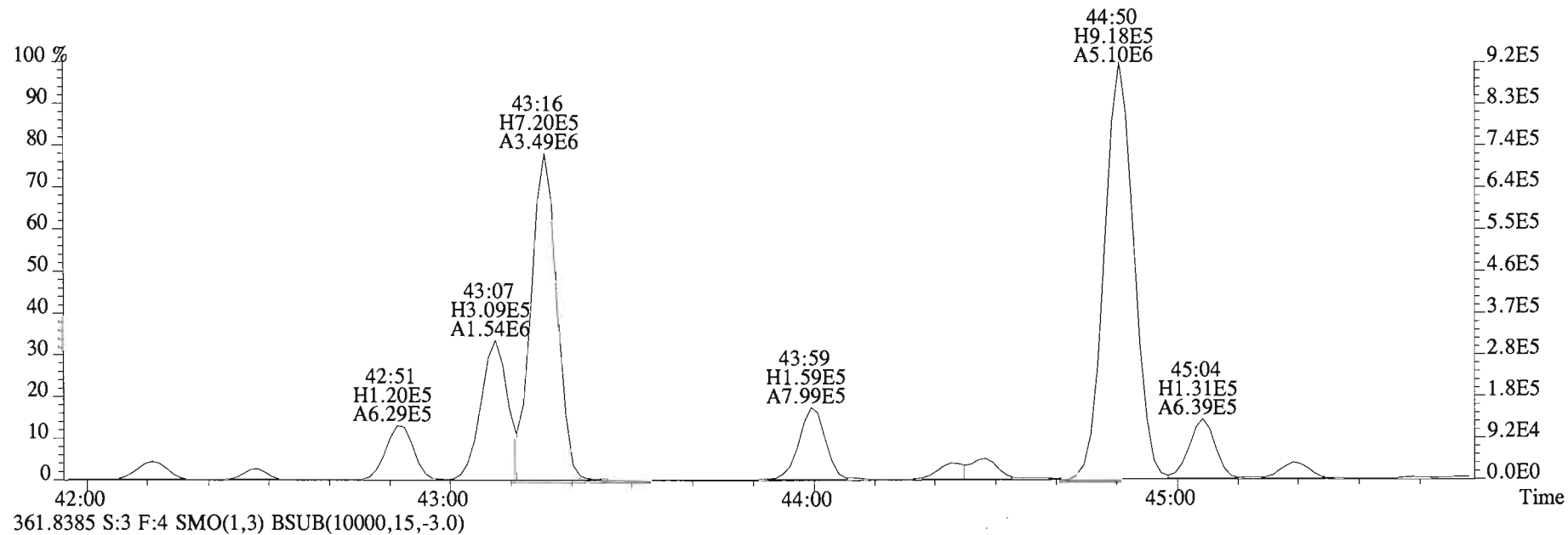
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
359.8415 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1724.0,0.00%,F,F)



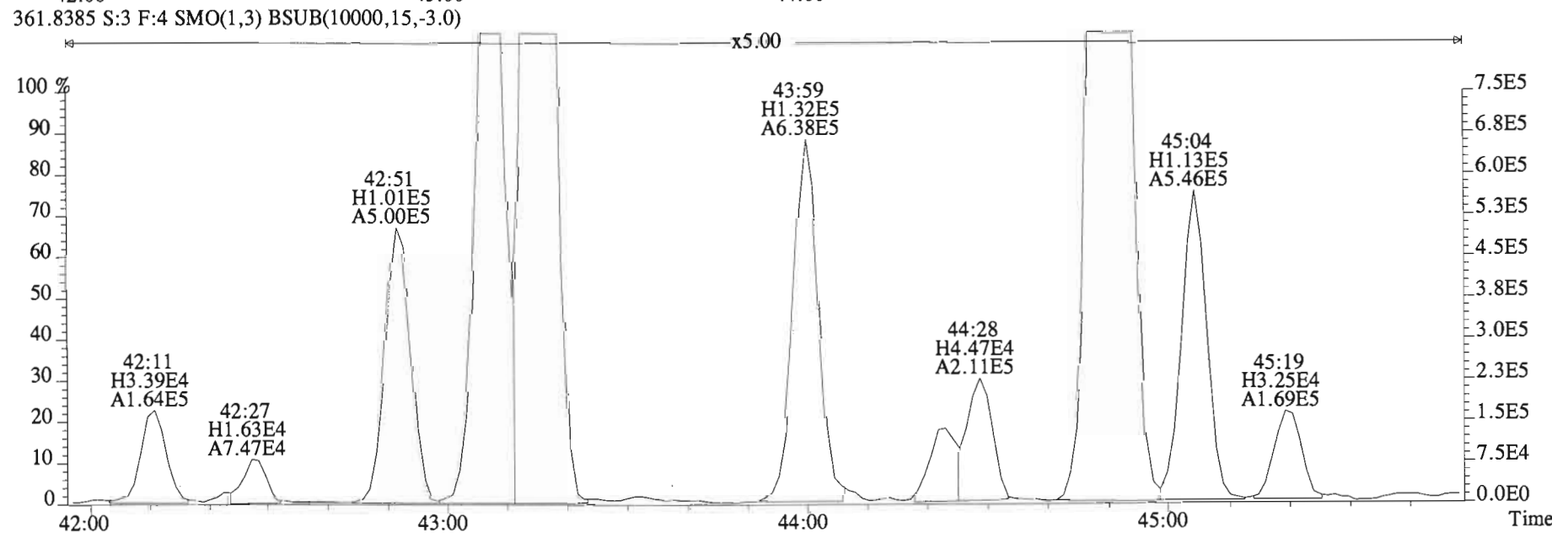
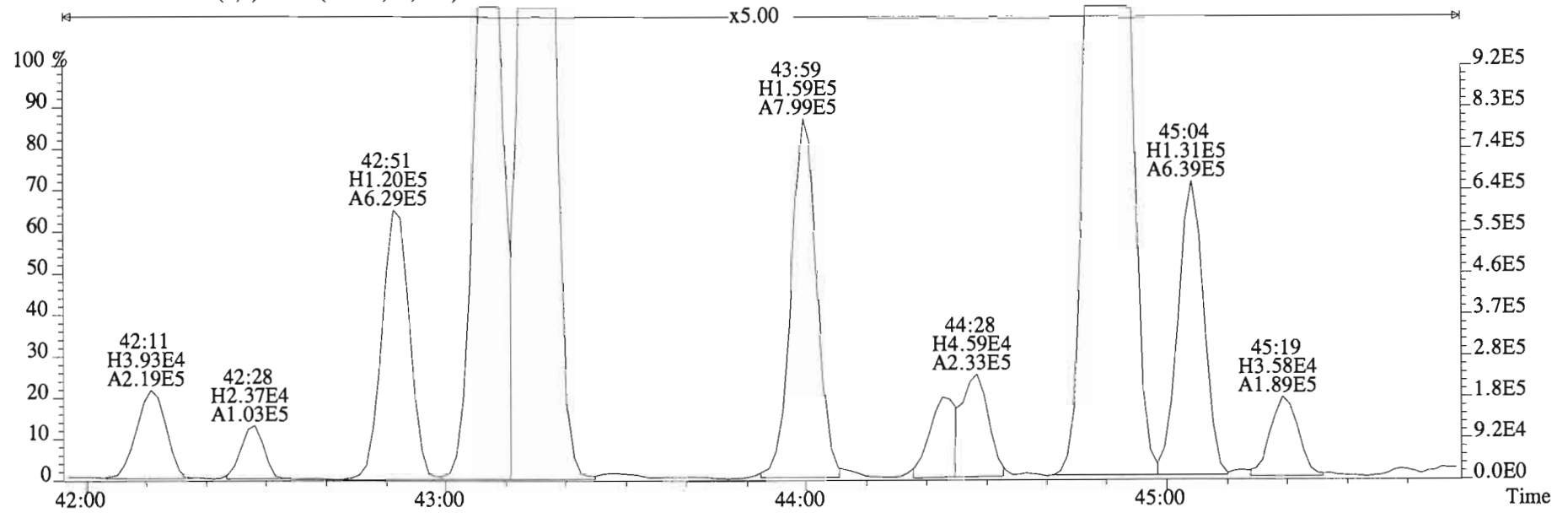
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2540.0,0.00%,F,F)



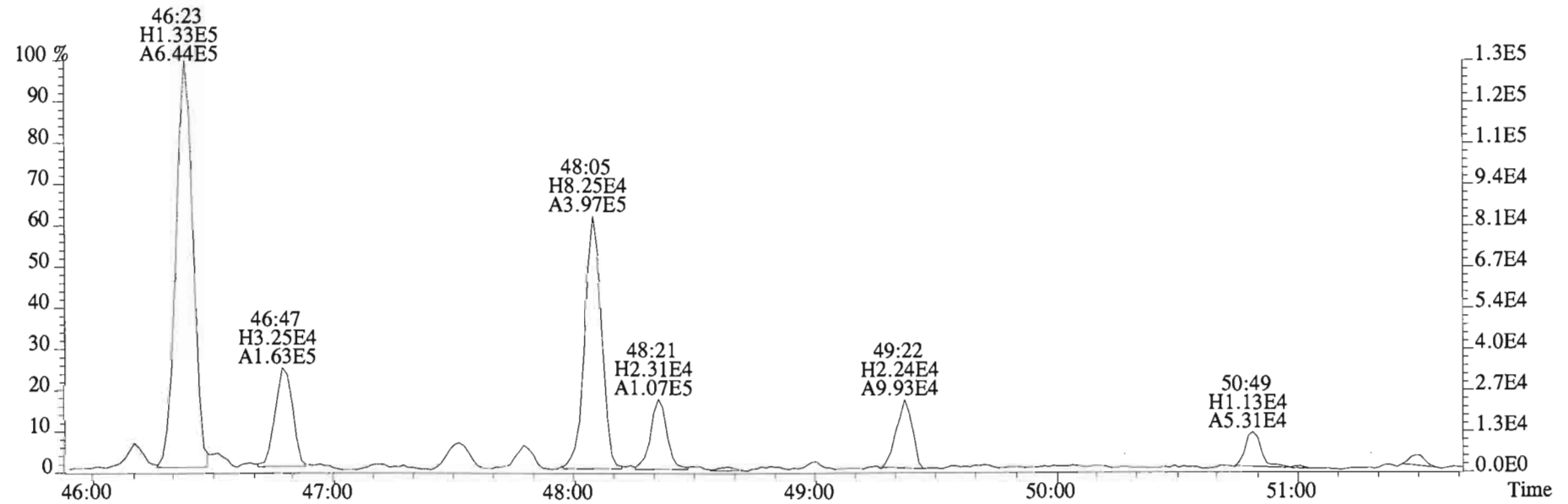
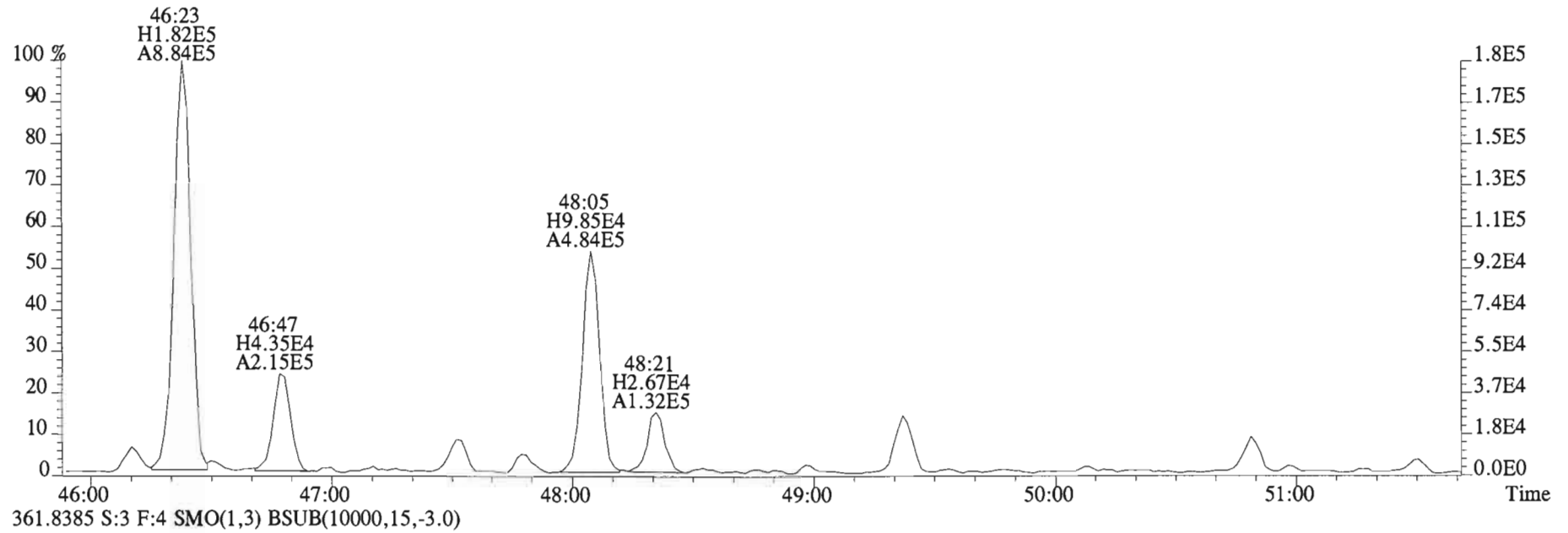
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0)



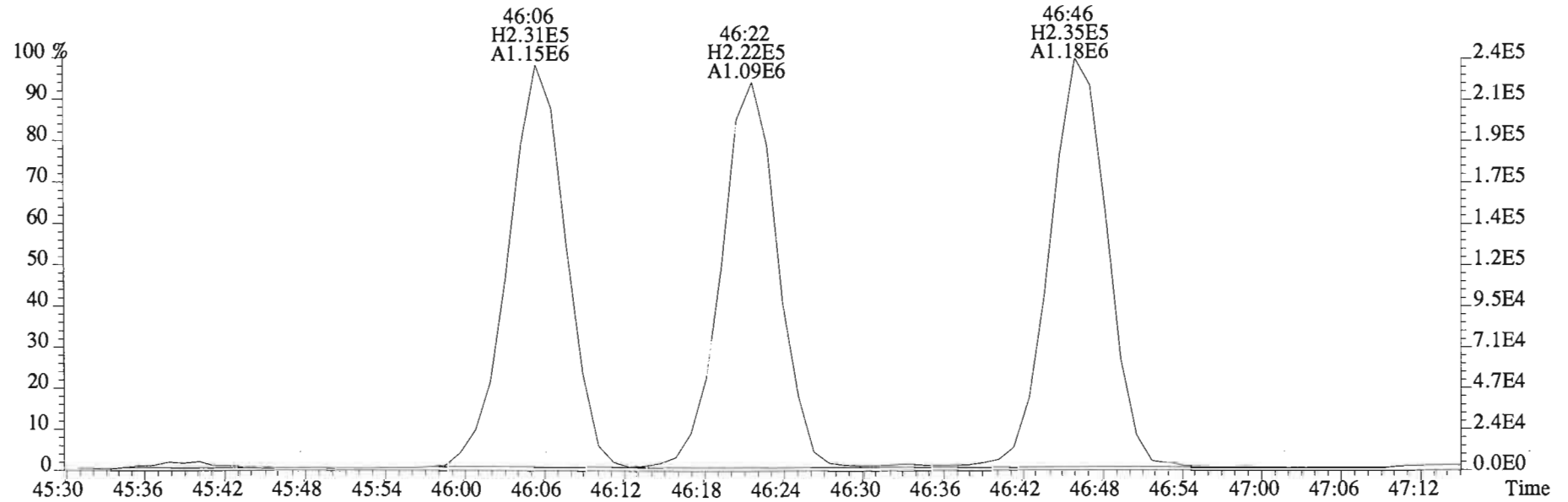
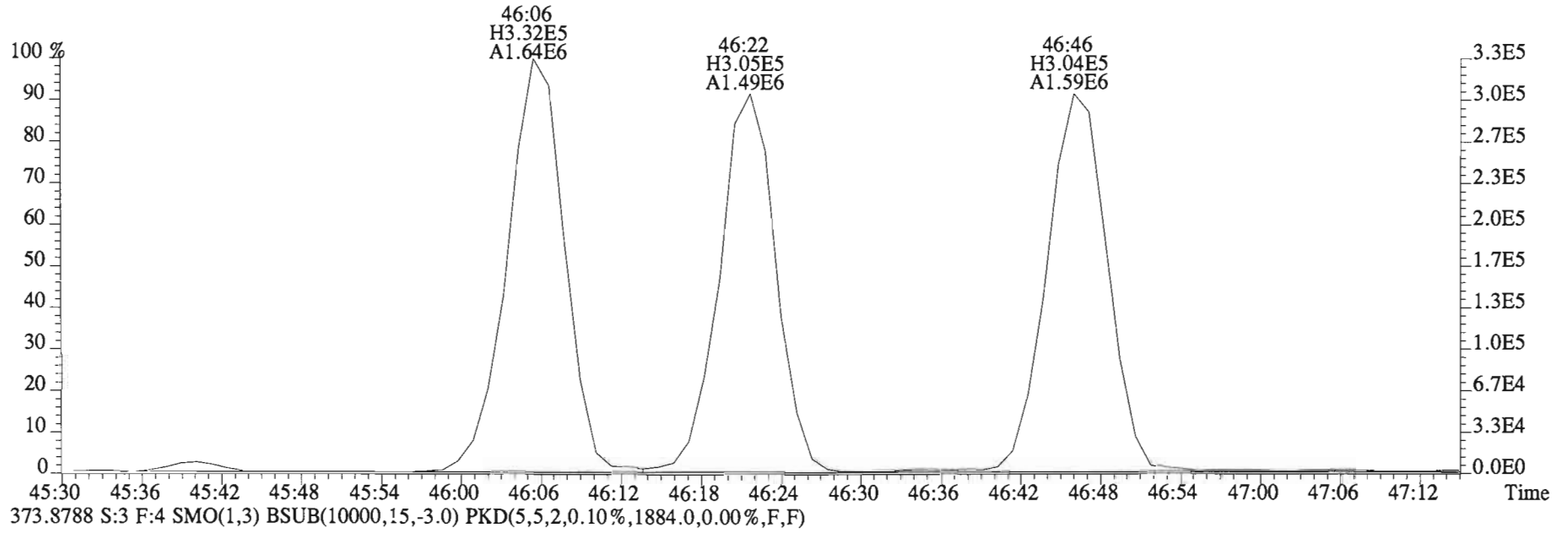
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
 359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0)



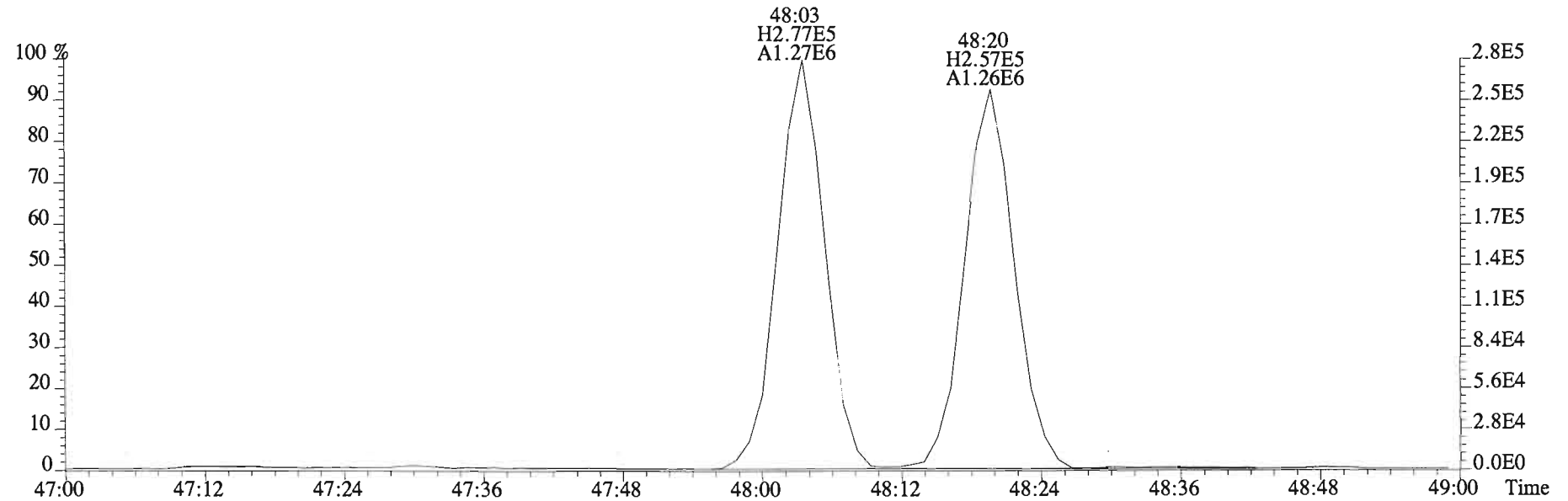
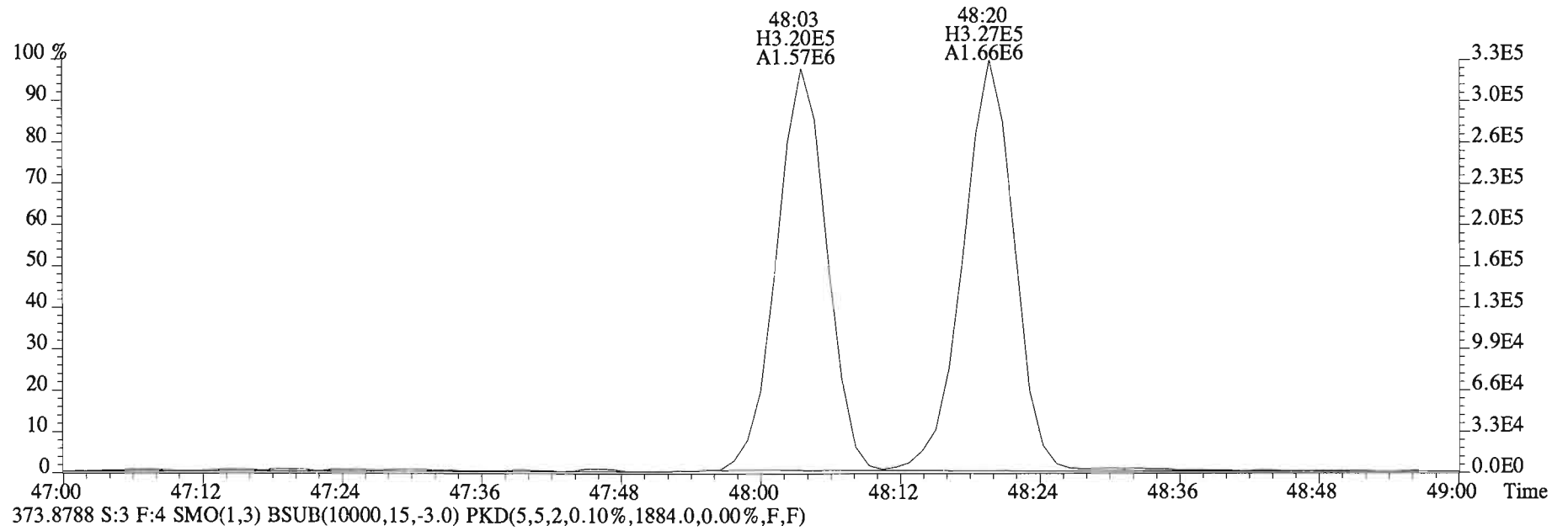
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0)



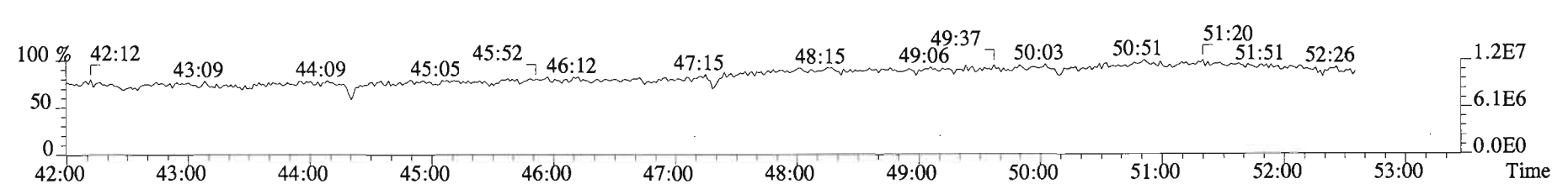
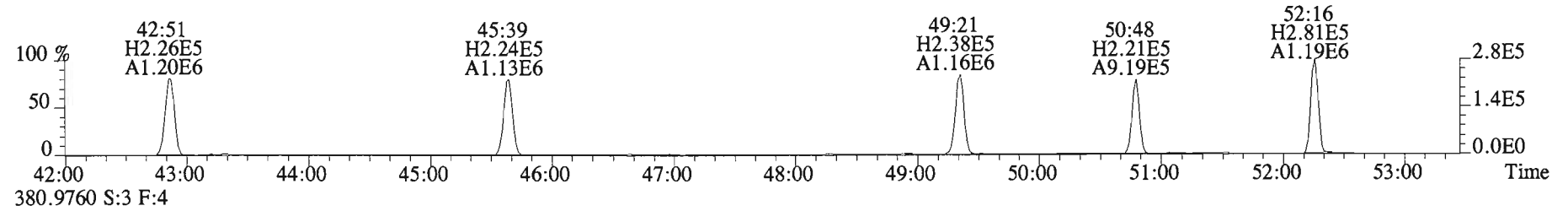
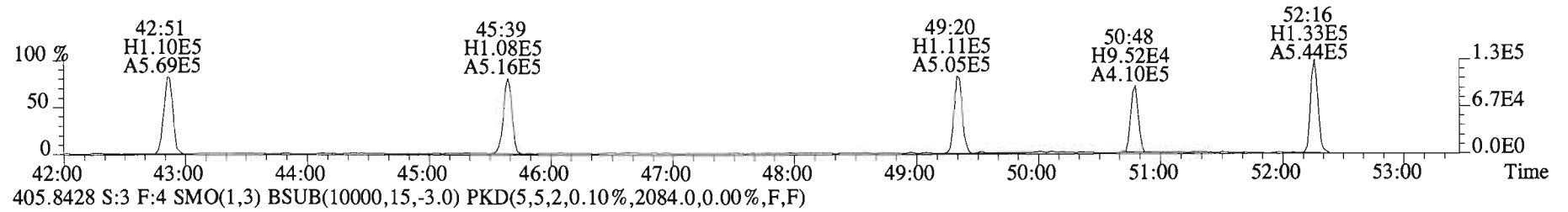
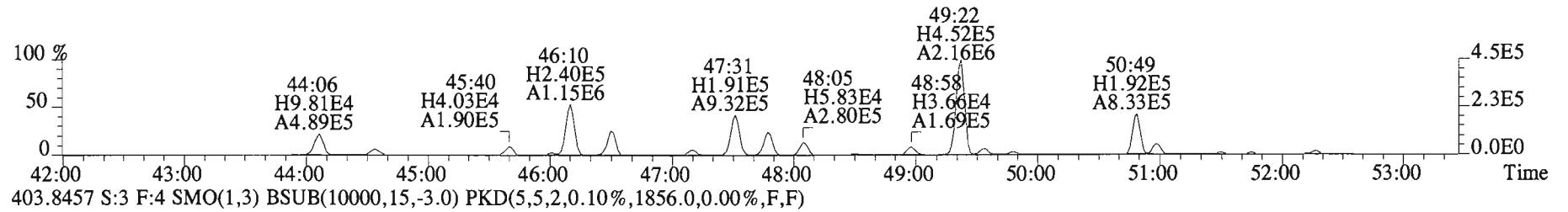
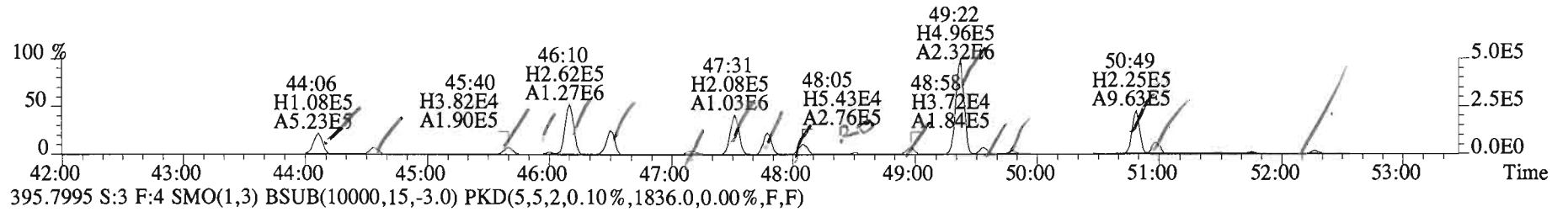
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
371.8817 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2352.0,0.00%,F,F)



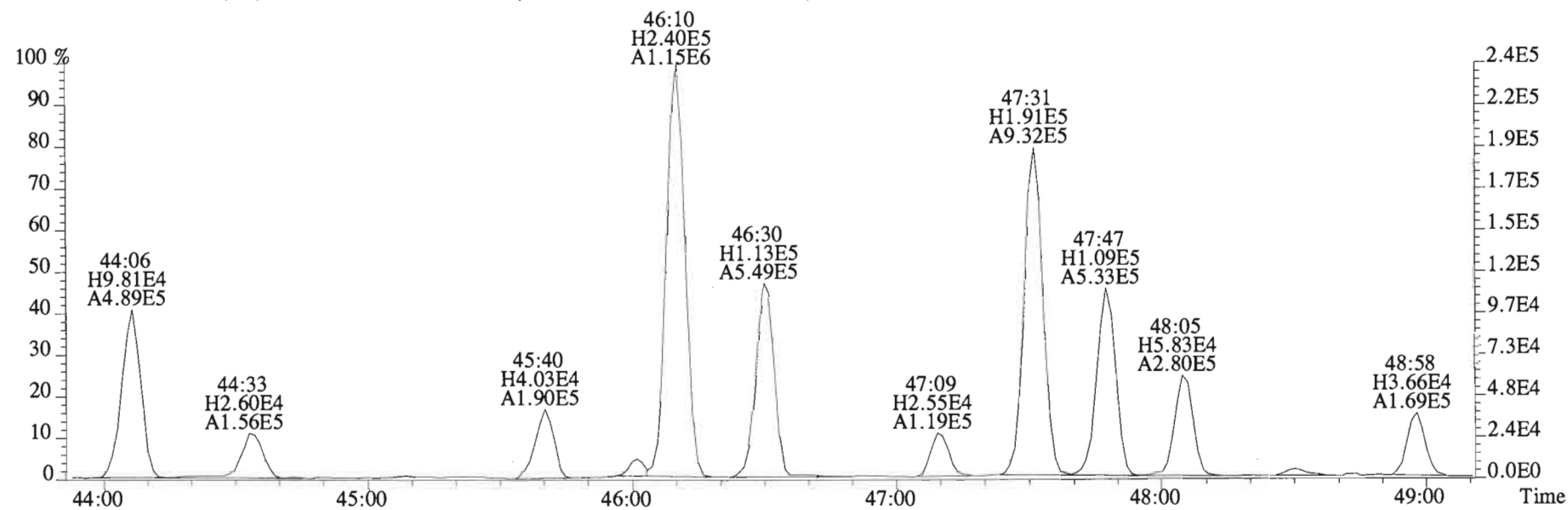
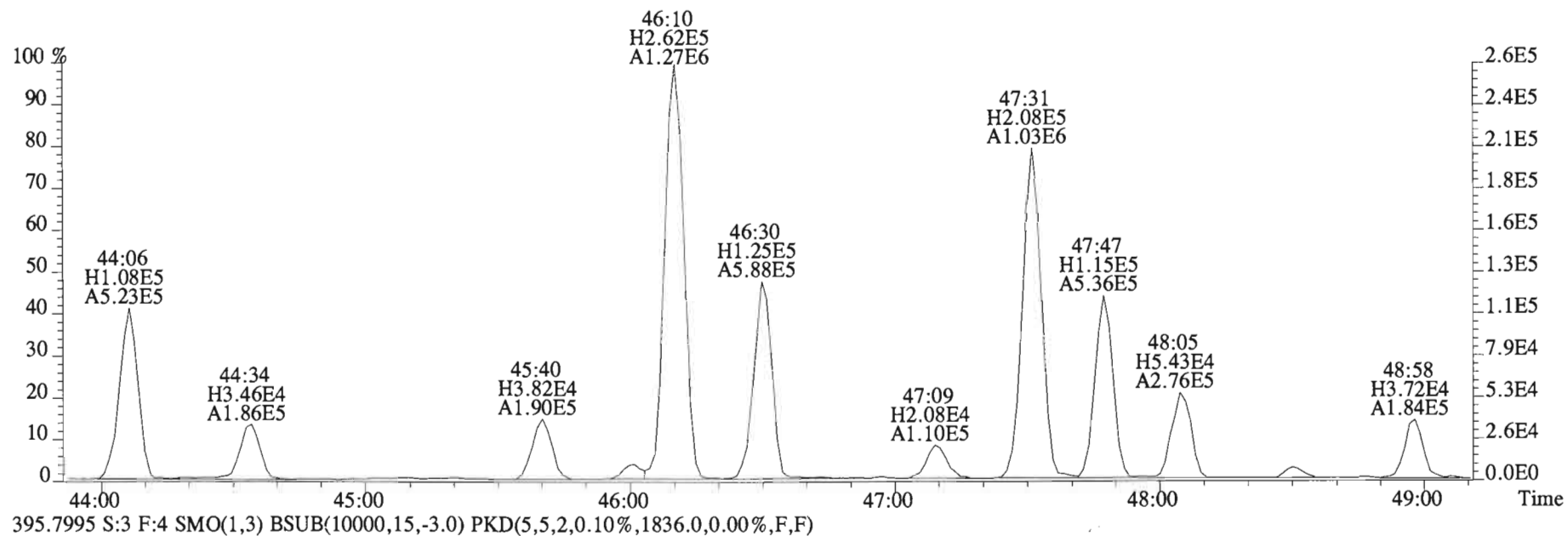
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
371.8817 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2352.0,0.00%,F,F)



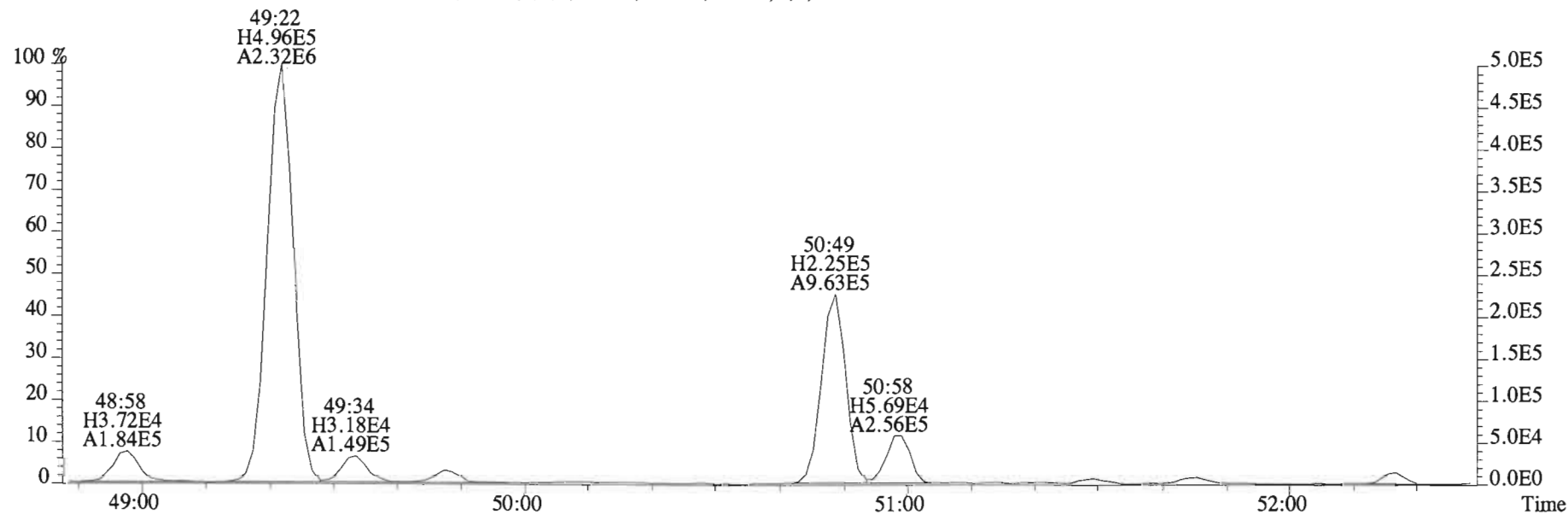
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2284.0,0.00%,F,F)



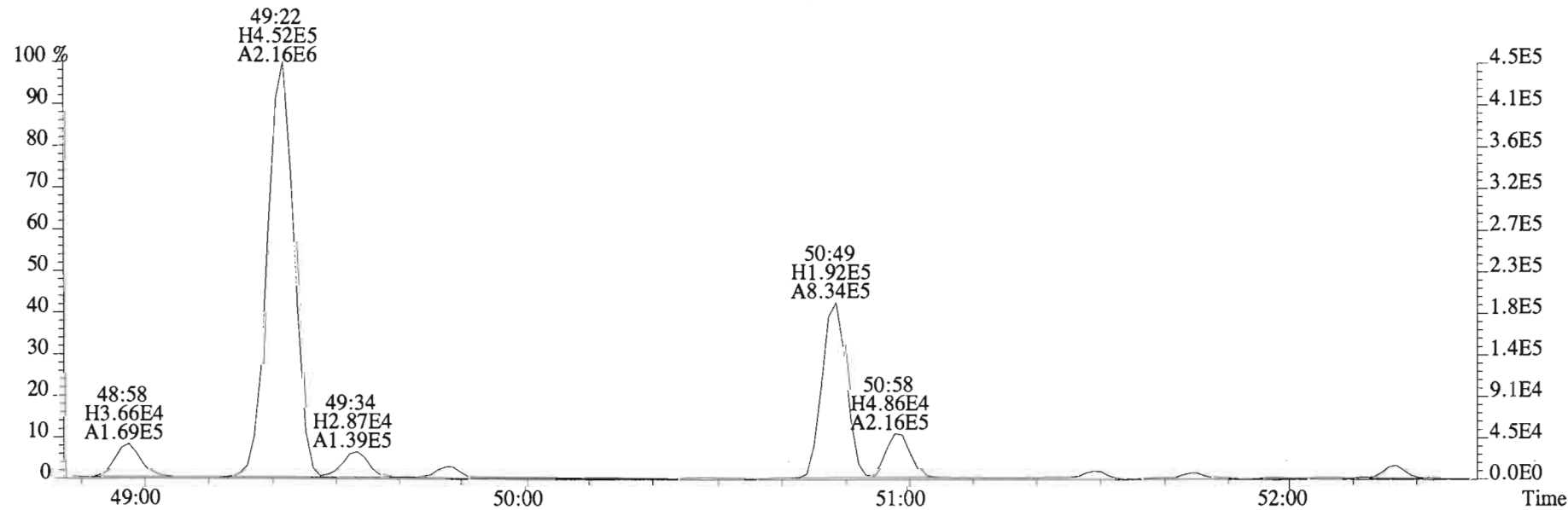
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
 393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2284.0,0.00%,F,F)



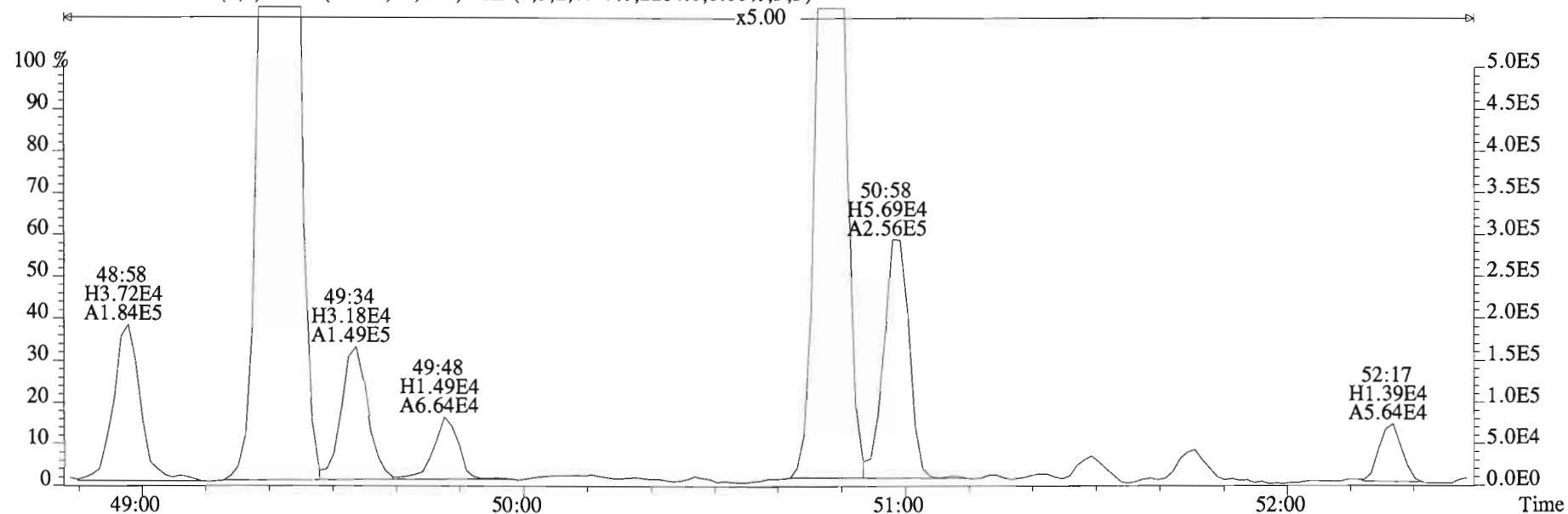
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2284.0,0.00%,F,F)



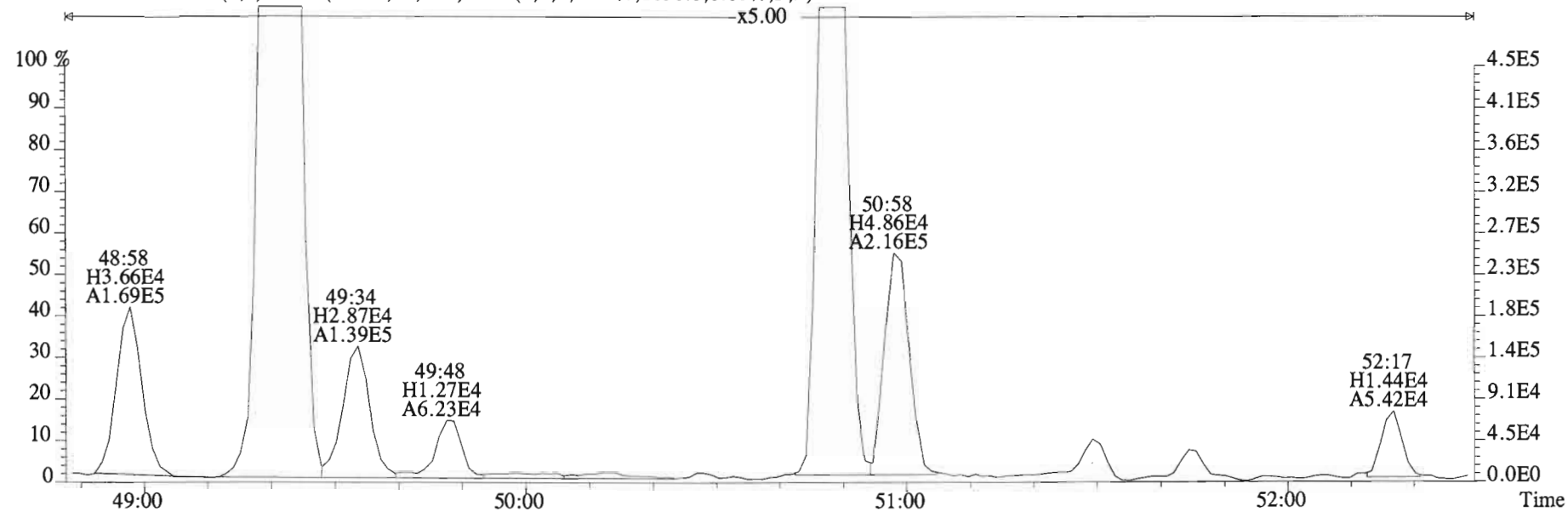
395.7995 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1836.0,0.00%,F,F)



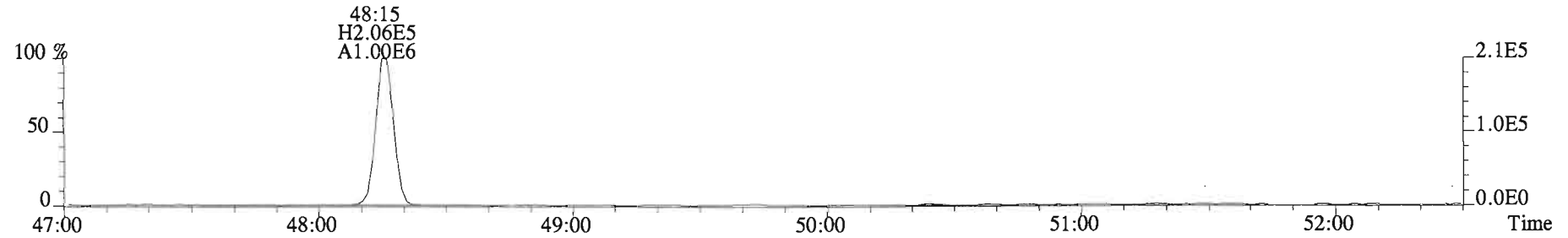
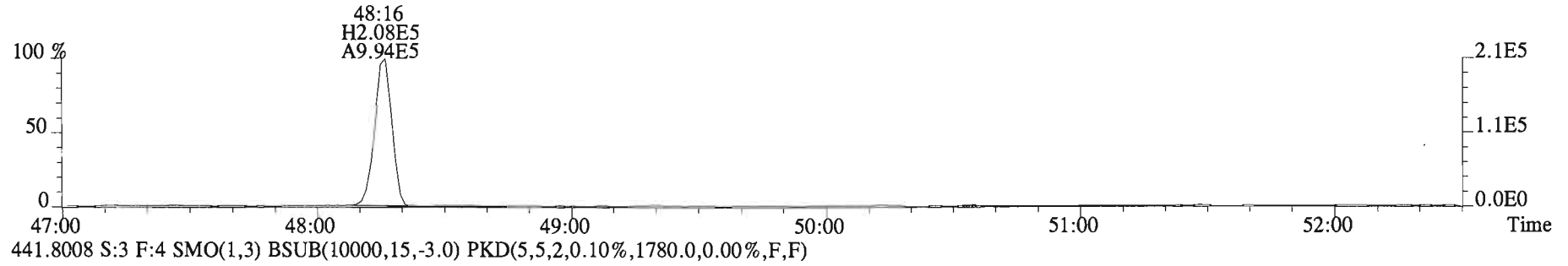
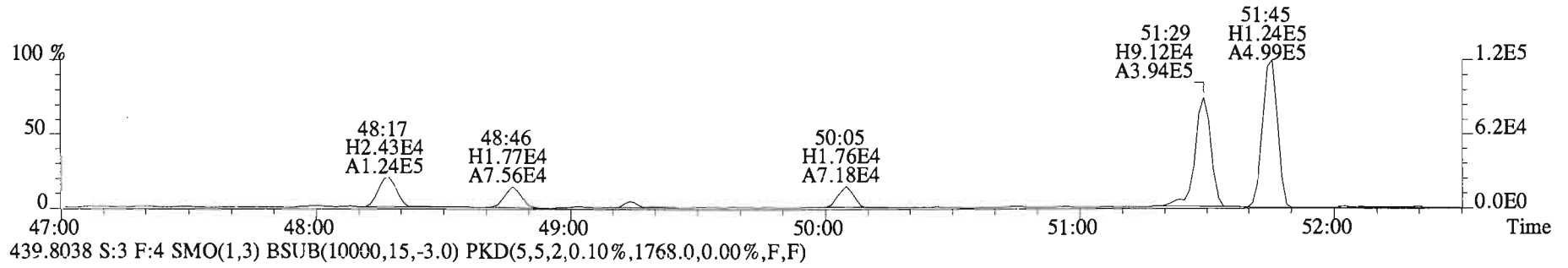
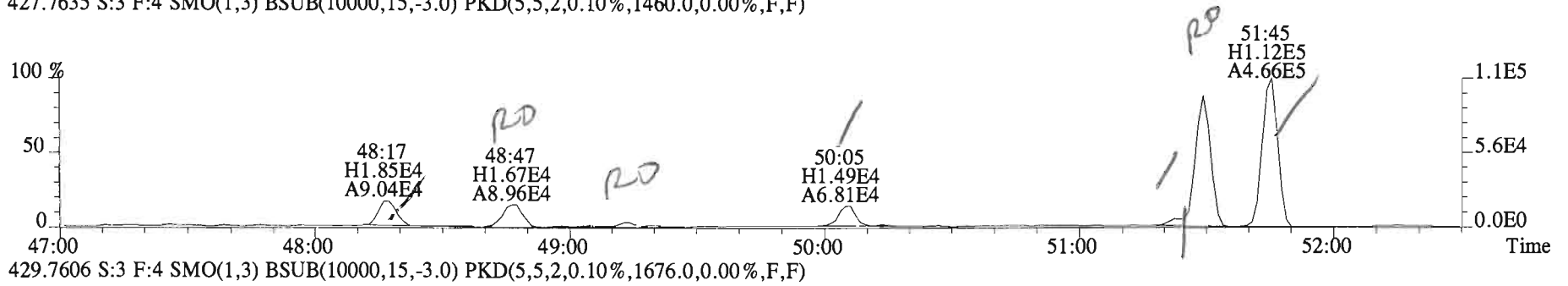
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
 393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2284.0,0.00%,F,F)



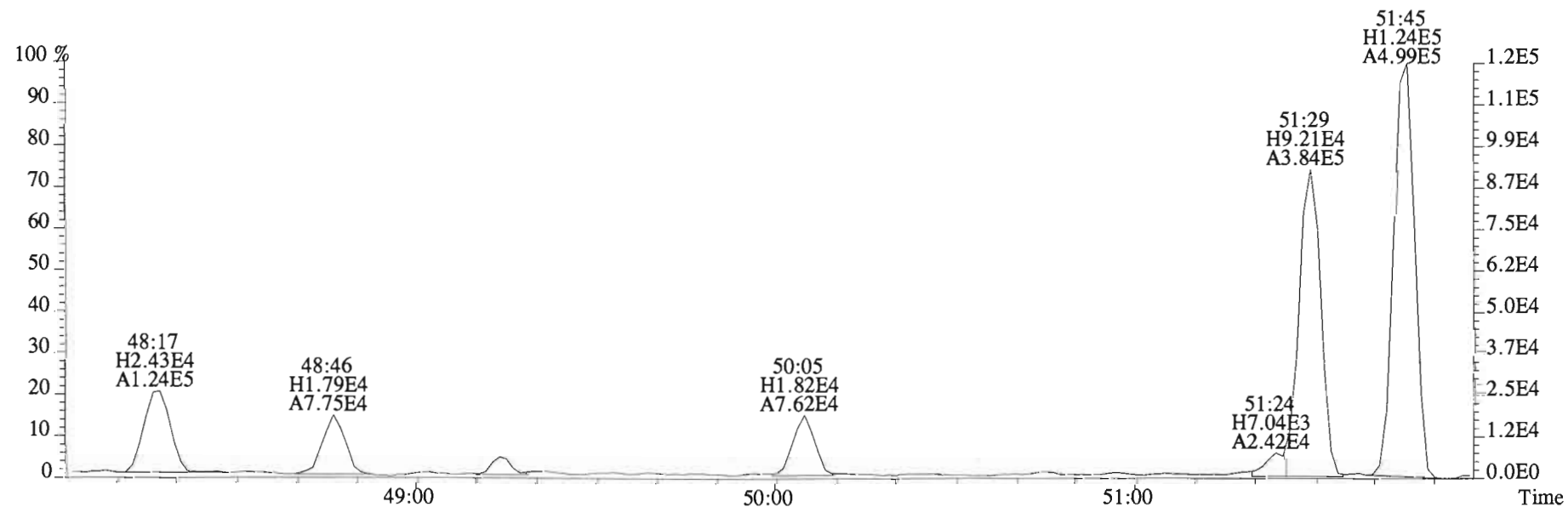
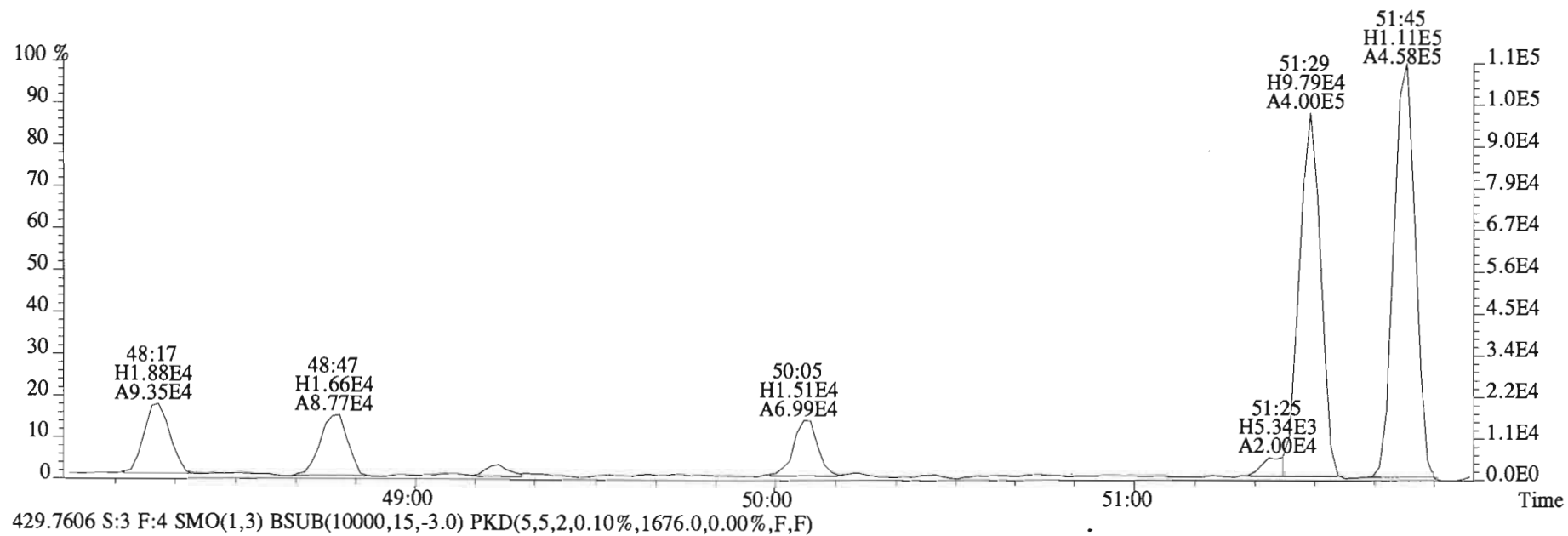
395.7995 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1836.0,0.00%,F,F)



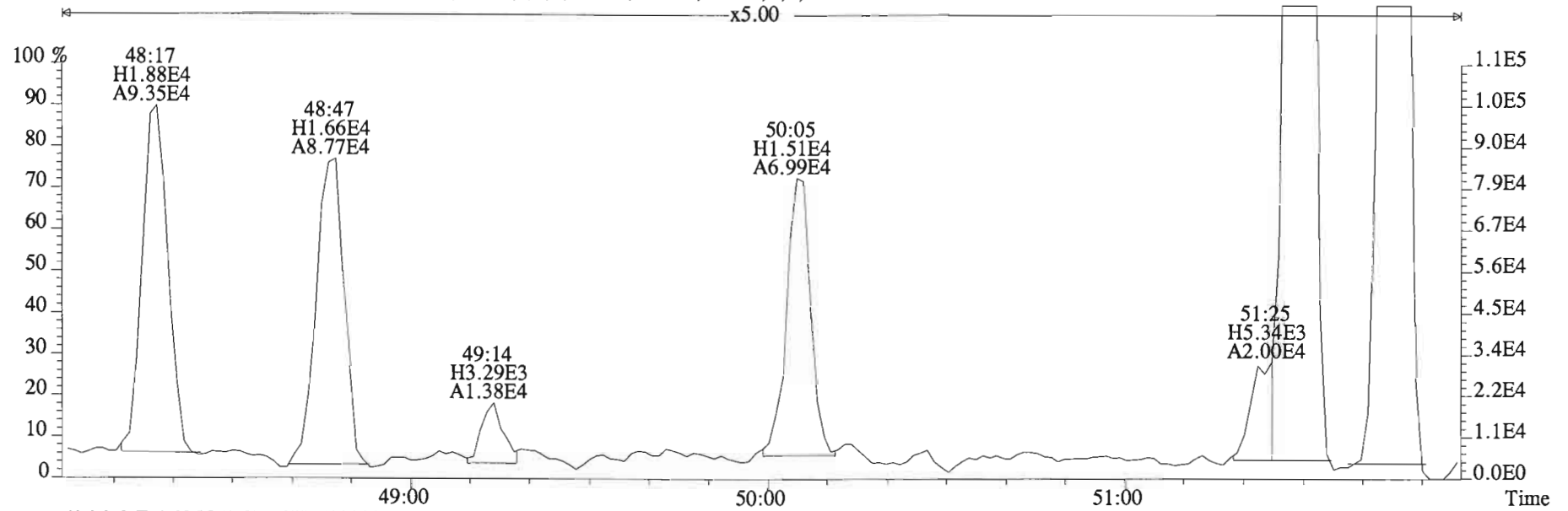
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
429.7635 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1460.0,0.00%,F,F)



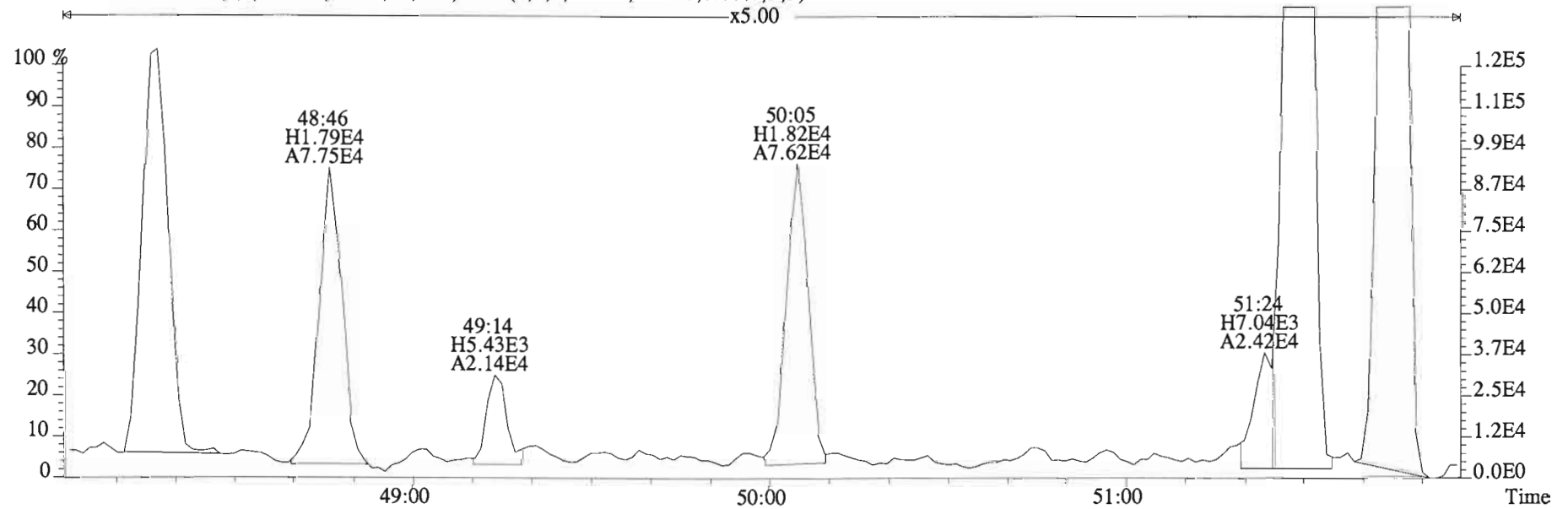
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
427.7635 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1460.0,0.00%,F,F)



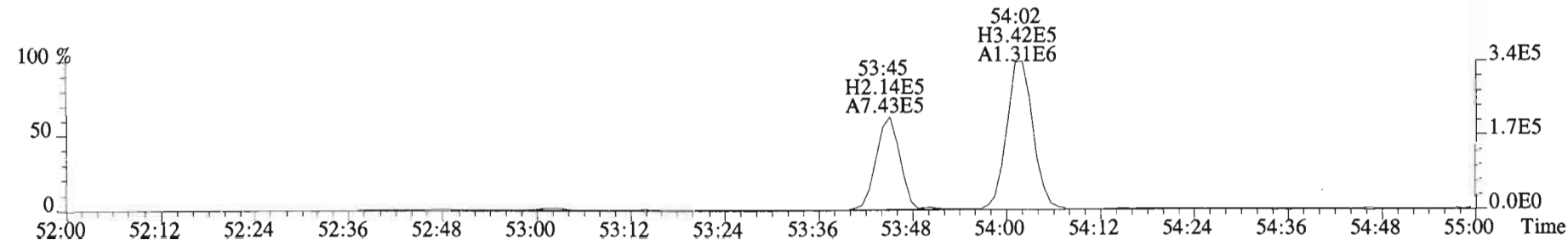
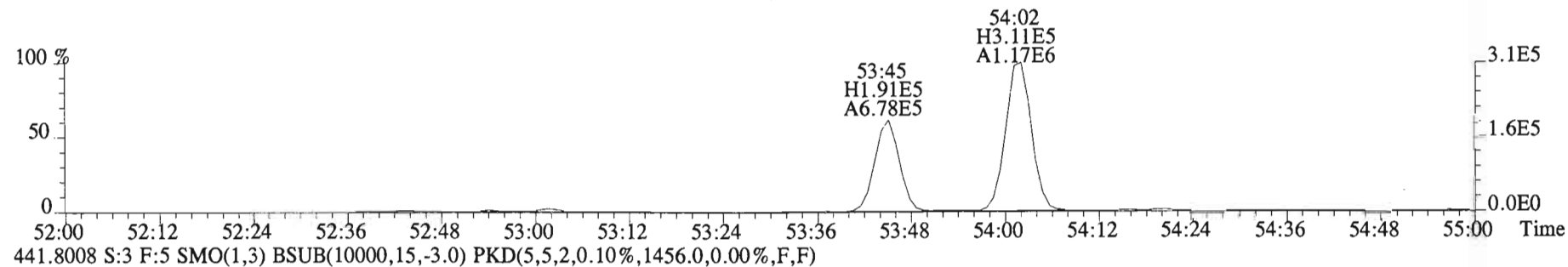
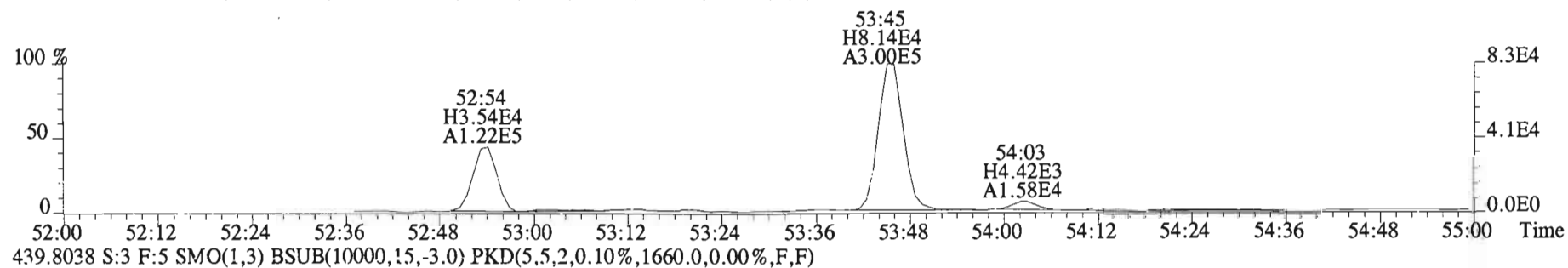
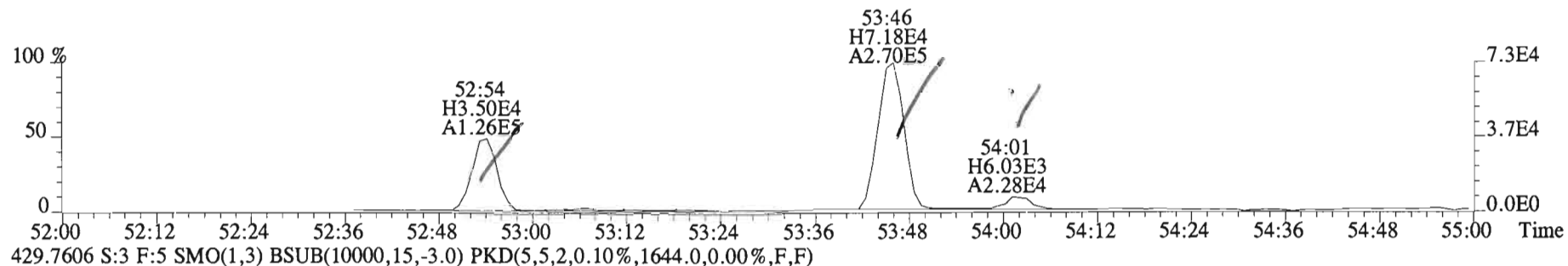
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
427.7635 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1460.0,0.00%,F,F)



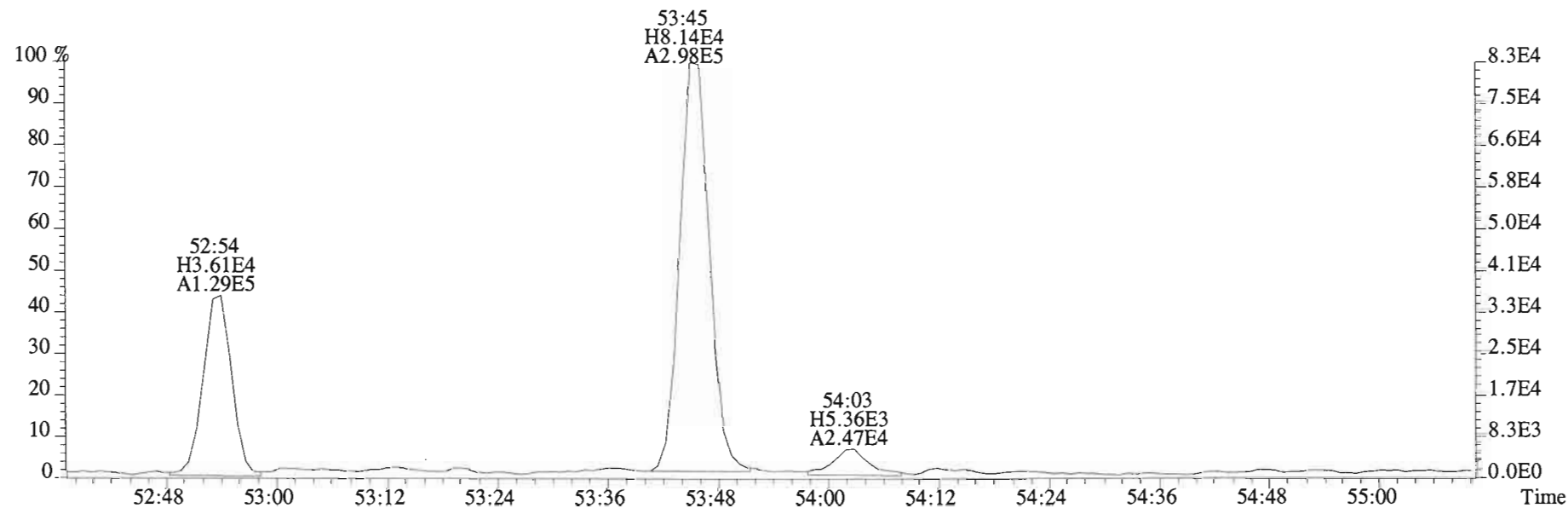
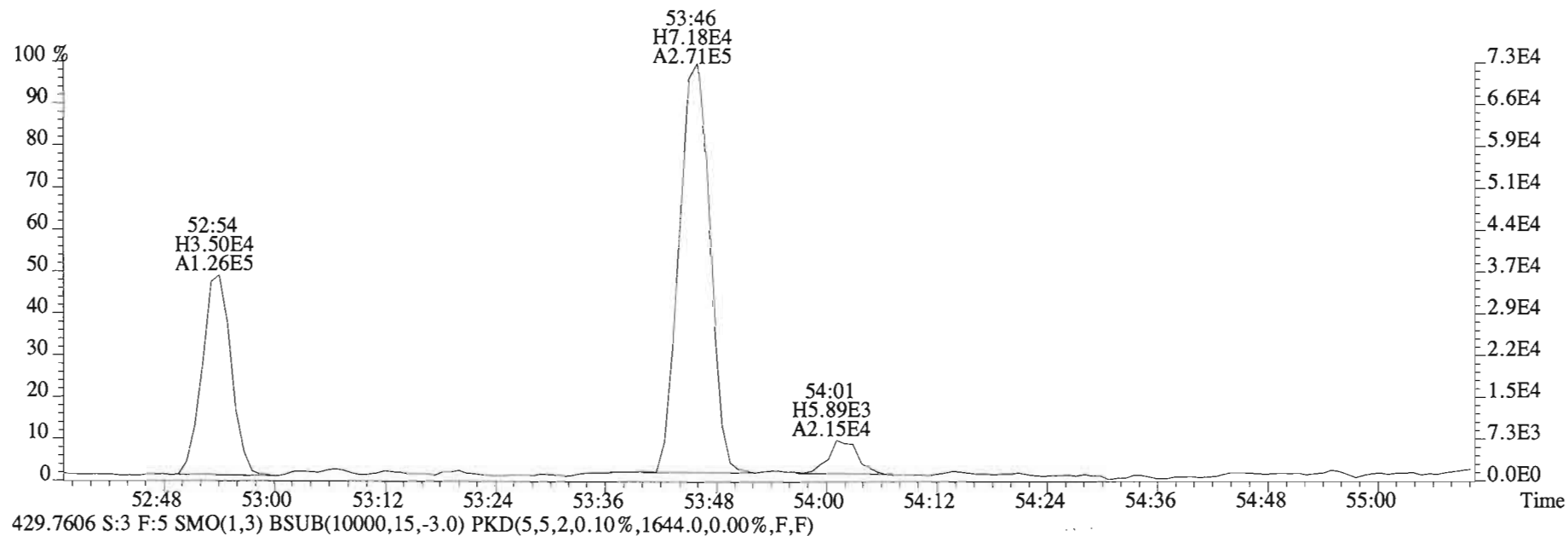
429.7606 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1676.0,0.00%,F,F)



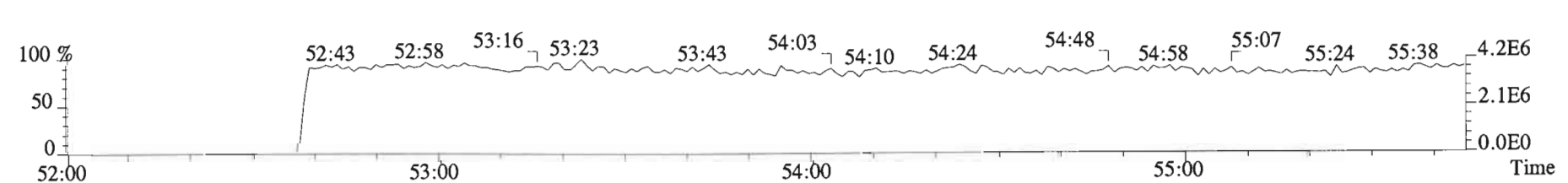
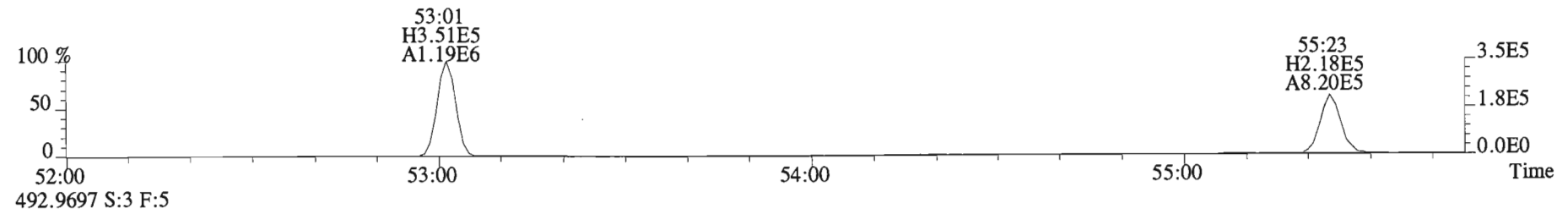
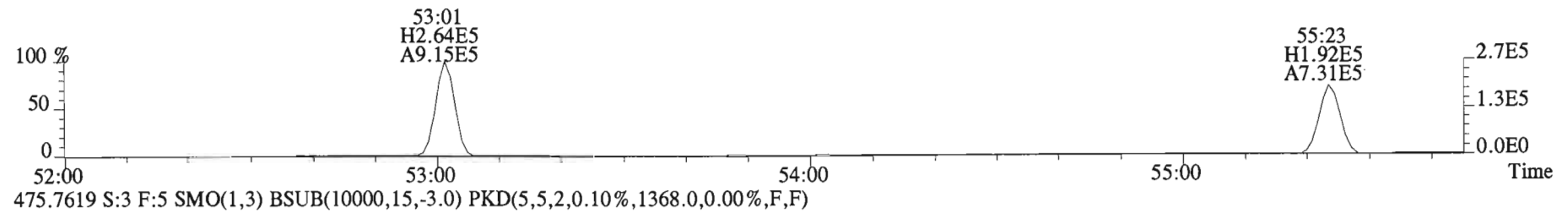
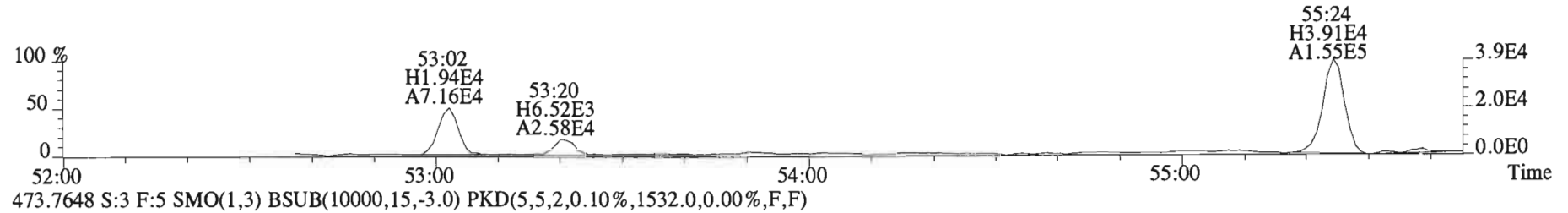
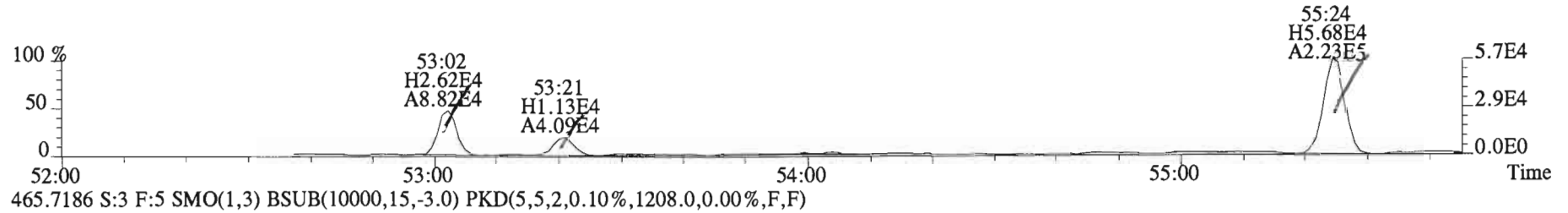
File:150227E1 #1-430 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
429.7635 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1592.0,0.00%,F,F)



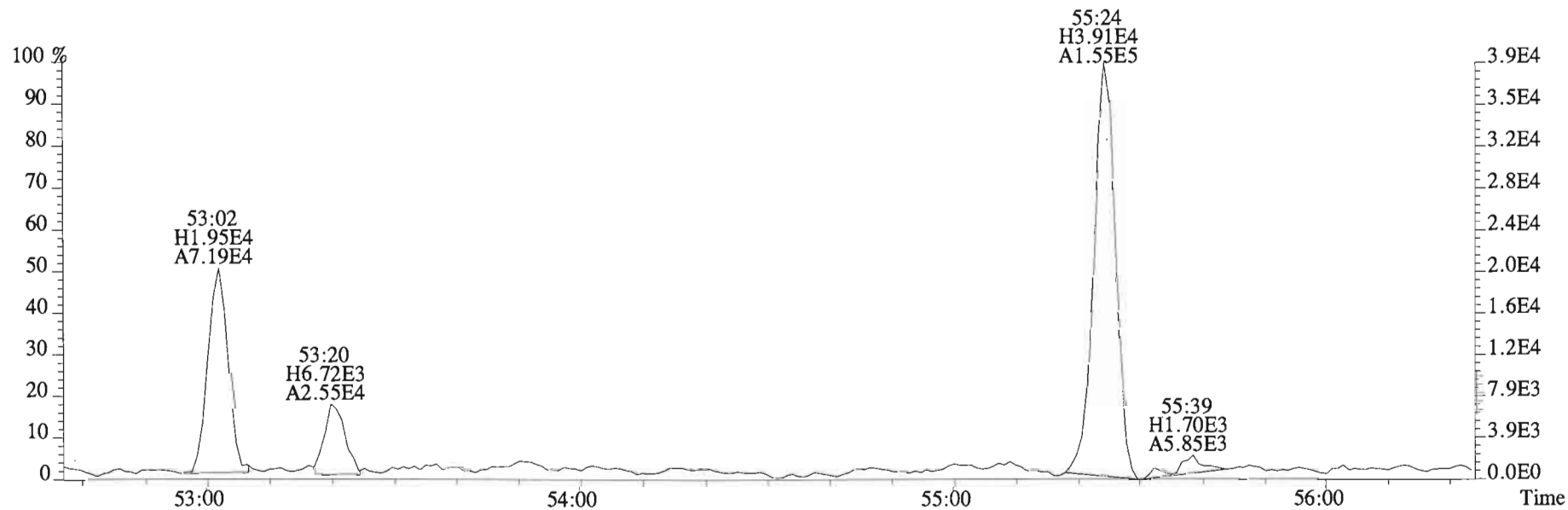
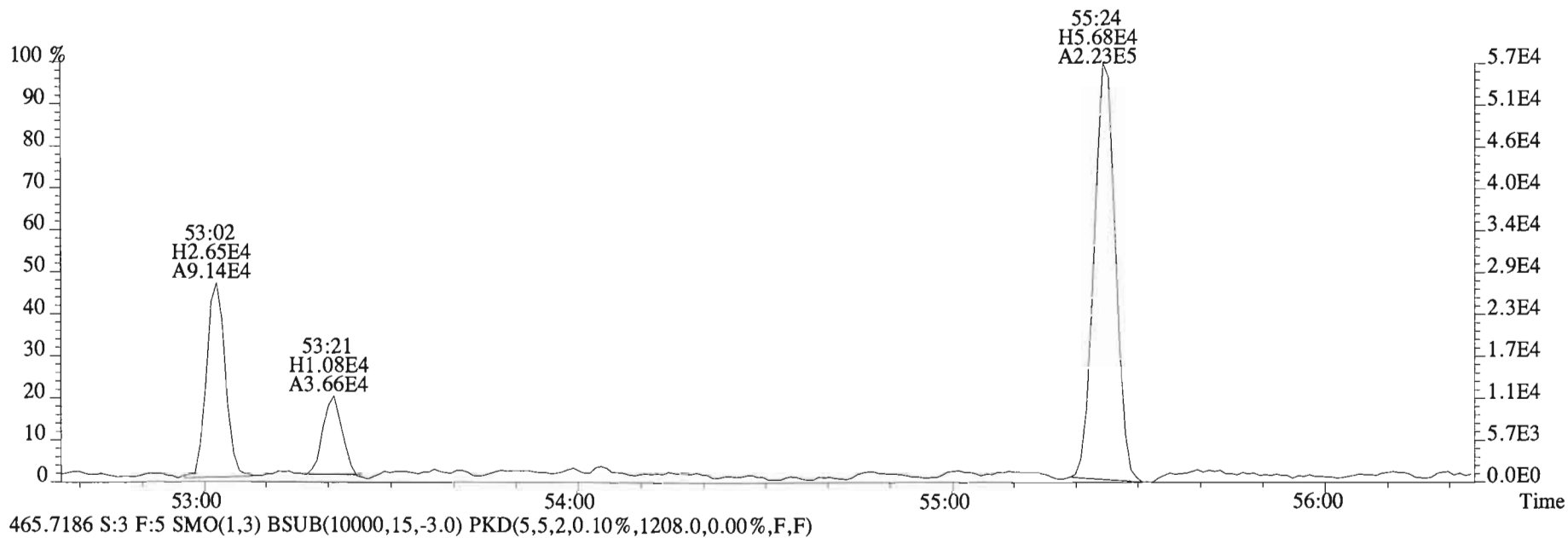
File:150227E1 #1-430 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
427.7635 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1592.0,0.00%,F,F)



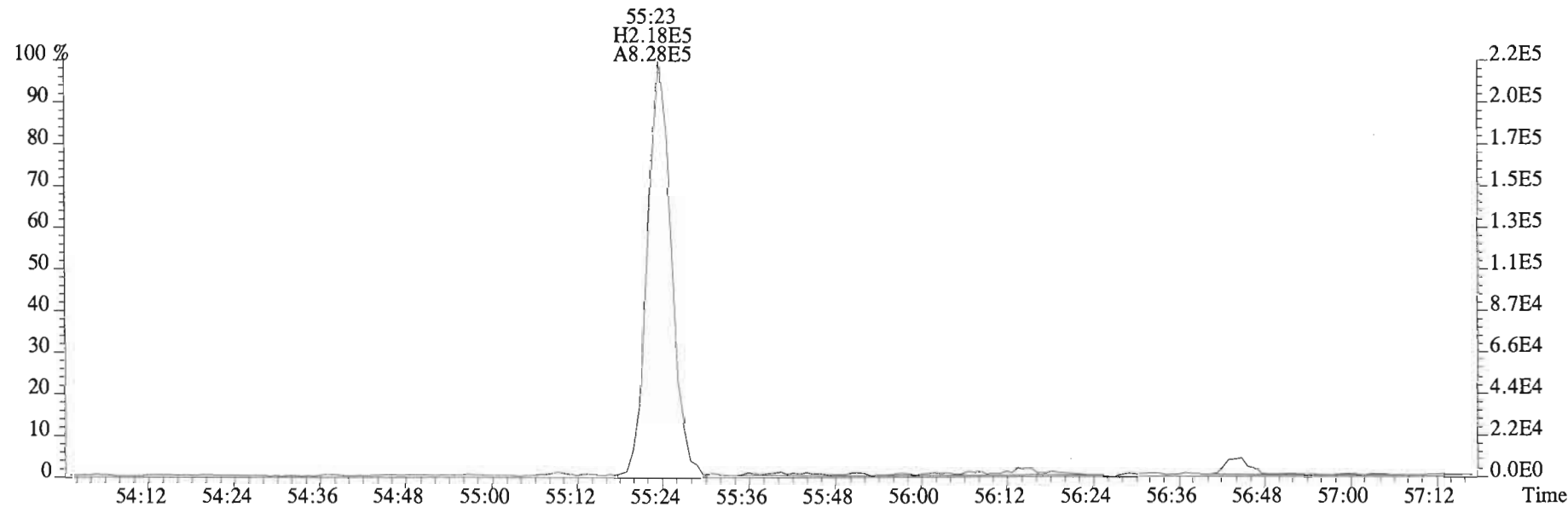
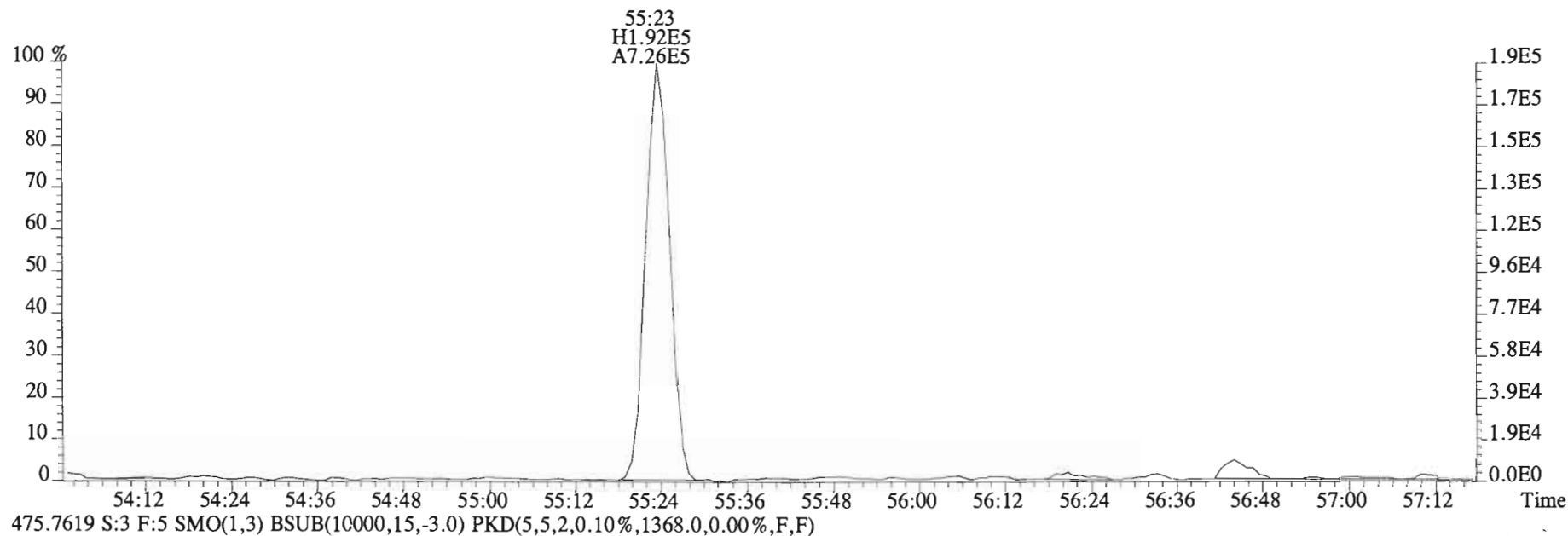
File:150227E1 #1-430 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
463.7216 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1420.0,0.00%,F,F)



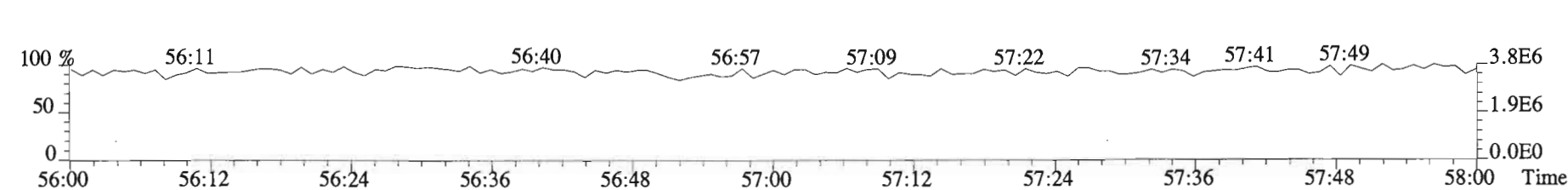
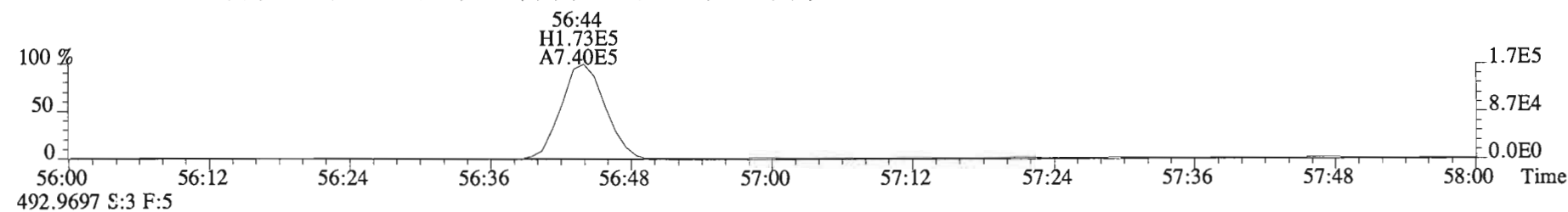
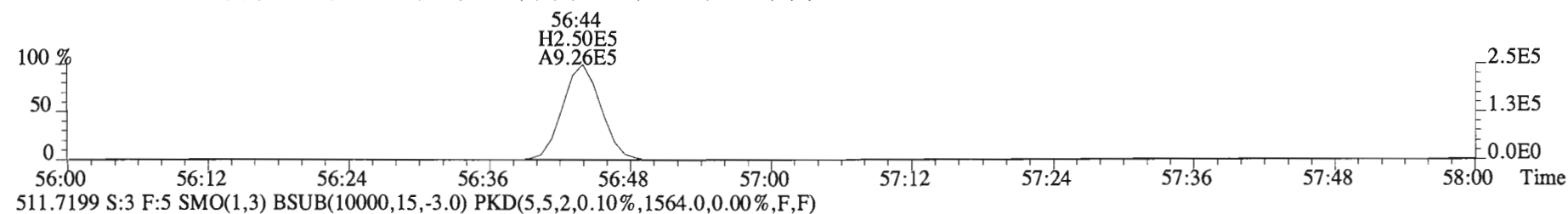
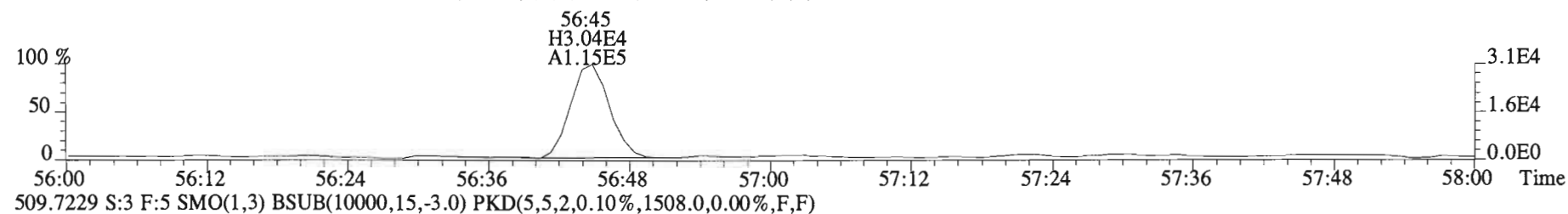
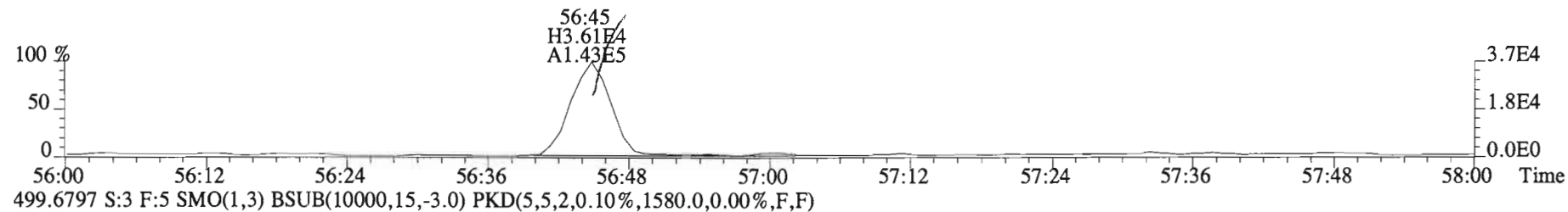
File:150227E1 #1-430 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
463.7216 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1420.0,0.00%,F,F)



File:150227E1 #1-430 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
473.7648 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1532.0,0.00%,F,F)



File:150227E1 #1-430 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
497.6826 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1440.0,0.00%,F,F)



Client ID: ST-OF-01-20150210-W
Lab ID: 1500166-03@20X

Filename: 150227E1 S:3 Acq:27-FEB-15 14:44:54
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.011

ConCal: ST150227E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	8.84e+04	3.34	y 16:11	1.33	35.2		*	2.5	*	1.000	0.997-1.007	
Mono	PCB-2	*	n	NotF η	1.30	*		1530	2.5	21.3	*	0.983-0.993	
Mono	PCB-3	1.03e+05	3.54	y 18:48	1.30	42.0		*	2.5	*	1.000	0.996-1.006	
Di	PCB-4/10	*	n	NotF η	1.67	*		8630	2.5	134	*	0.997-1.007	
Di	PCB-7/9	*	n	NotF η	1.25	*		8630	2.5	106	*	0.864-0.872	
Di	PCB-6	*	n	NotF η	1.24	*		8630	2.5	108	*	0.888-0.897	
Di	PCB-5/8	3.77e+05	1.55	y 23:00	1.27	187		*	2.5	*	0.909	0.905-0.915	
Di	PCB-14	*	n	NotF η	1.47	*		8630	2.5	97.0	*	0.948-0.958	
Di	PCB-11	3.02e+05	1.50	y 25:19	1.28	140		*	2.5	*	1.000	0.995-1.005	
Di	PCB-12/13	*	n	NotF η	1.27	*		8630	2.5	113	*	1.011-1.021	
Di	PCB-15	6.25e+05	1.46	y 26:01	1.44	257		*	2.5	*	1.028	1.023-1.031	
Tri	PCB-19	*	n	NotF η	1.18	*		1730	2.5	29.6	*	0.996-1.006	
Tri	PCB-30	*	n	NotF η	1.87	*		1730	2.5	18.7	*	1.033-1.043	
Tri	PCB-18	3.65e+05	1.21	n 25:56	0.89	268	R	*	2.5	*	0.955	0.949-0.959	
Tri	PCB-17	1.27e+05	1.23	n 26:06	0.96	86.4	R	*	2.5	*	0.961	0.956-0.966	
Tri	PCB-24/27	7.97e+04	1.12	y 26:39	1.30	40.0		*	2.5	*	0.981	0.977-0.987	
Tri	PCB-16/32	3.86e+05	1.18	y 27:11	1.05	240		*	2.5	*	1.001	0.996-1.006	
Tri	PCB-34	*	n	NotF η	1.30	*		2290	2.5	31.1	*	0.955-0.965	
Tri	PCB-23	*	n	NotF η	1.21	*		2290	2.5	33.4	*	0.958-0.968	
Tri	PCB-29	*	n	NotF η	1.21	*		2290	2.5	33.4	*	0.967-0.977	
Tri	PCB-26	1.52e+05	1.13	y 28:32	1.24	89.3		*	2.5	*	0.979	0.974-0.984	
Tri	PCB-25	6.86e+04	0.93	y 28:43	1.10	45.6		*	2.5	*	0.985	0.980-0.990	
Tri	PCB-31	8.41e+05	1.14	y 29:03	1.25	490		*	2.5	*	0.996	0.992-1.002	
Tri	PCB-28	1.06e+06	1.10	y 29:10	1.24	625		*	2.5	*	1.000	0.996-1.006	
Tri	PCB-20/21/33	5.00e+05	1.00	y 29:47	1.16	315		*	2.5	*	1.021	1.016-1.026	
Tri	PCB-22	3.70e+05	1.05	y 30:12	1.16	232		*	2.5	*	1.036	1.032-1.042	
Tri	PCB-36	*	n	NotF η	1.30	*		2290	2.5	32.1	*	0.929-0.939	
Tri	PCB-39	*	n	NotF η	1.26	*		2290	2.5	33.1	*	0.943-0.953	
Tri	PCB-38	*	n	NotF η	1.24	*		2290	2.5	33.6	*	0.967-0.977	
Tri	PCB-35	*	n	NotF η	1.26	*		2290	2.5	33.2	*	0.982-0.992	
Tri	PCB-37	5.16e+05	1.12	y 33:02	1.35	258		*	2.5	*	1.000	0.996-1.006	
Tetra	PCB-54	*	n	NotF η	1.02	*		2380	2.5	36.3	*	0.996-1.006	
Tetra	PCB-50	*	n	NotF η	0.78	*		2380	2.5	47.8	*	1.037-1.047	
Tetra	PCB-53	1.68e+05	0.92	n 29:51	1.14	135	R	*	2.5	*	0.947	0.941-0.951	
Tetra	PCB-51	4.70e+04	0.67	y 30:10	1.16	37.0		*	2.5	*	0.957	0.952-0.962	
Tetra	PCB-45	1.18e+05	0.86	y 30:36	1.04	104		*	2.5	*	0.970	0.965-0.975	
Tetra	PCB-46	6.26e+04	0.78	y 31:06	0.95	60.3		*	2.5	*	0.986	0.981-0.991	

Integrations by:

Analyst: Dms

Date: 3/2/15

Reviewed by: CA

Date: 3/2/15

Client ID: ST-OF-01-20150210-W
Lab ID: 1500166-03@20X

Filename: 150227E1 S:3 Acq:27-FEB-15 14:44:54
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.011

ConCal: ST150227E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	2.10e+06	0.76	y 31:33	1.29	1490		*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-73	*	*	n NotF η	1.41	*		2380	2.5	35.3	*	0.999-1.009	
Tetra	PCB-43/49	7.20e+05	0.80	y 31:51	1.14	578		*	2.5	*	1.010	1.005-1.015	
Tetra	PCB-47	2.69e+05	0.82	y 32:04	1.20	188		*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-48/75	1.28e+05	1.05	n 32:11	1.33	80.9	R	*	2.5	*	1.004	0.999-1.009	
Tetra	PCB-65	*	*	n NotF η	1.32	*		2380	2.5	41.0	*	1.007-1.017	
Tetra	PCB-62	*	*	n NotF η	1.36	*		2380	2.5	39.8	*	1.011-1.021	
Tetra	PCB-44	9.41e+05	0.72	y 32:50	0.87	904		*	2.5	*	1.024	1.020-1.030	
Tetra	PCB-42/59	3.29e+05	0.87	y 33:05	1.24	223		*	2.5	*	1.032	1.027-1.037	
Tetra	PCB-41/64/71/72	1.08e+06	0.71	y 33:40	1.34	676		*	2.5	*	1.050	1.045-1.055	
Tetra	PCB-68	*	*	n NotF η	1.61	*		2380	2.5	33.5	*	1.053-1.063	
Tetra	PCB-40	1.38e+05	0.61	n 34:08	0.86	135	R	*	2.5	*	1.065	1.061-1.071	
Tetra	PCB-57	*	*	n NotF η	1.12	*		2380	2.5	33.5	*	0.965-0.975	
Tetra	PCB-67	*	*	n NotF η	1.09	*		2380	2.5	34.3	*	0.974-0.984	
Tetra	PCB-58	*	*	n NotF η	1.14	*		2380	2.5	33.0	*	0.977-0.987	
Tetra	PCB-63	*	*	n NotF η	1.16	*		2380	2.5	32.2	*	0.981-0.991	
Tetra	PCB-74	8.12e+05	0.80	y 35:22	1.21	439		*	2.5	*	0.995	0.989-0.999	
Tetra	PCB-61/70	2.51e+06	0.78	y 35:34	1.13	1460		*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-76/66	1.49e+06	0.86	y 35:47	1.18	829		*	2.5	*	1.007	1.000-1.010	
Tetra	PCB-80	*	*	n NotF η	1.32	*		2380	2.5	23.9	*	0.995-1.005	
Tetra	PCB-55	6.18e+04	0.83	y 36:16	1.23	30.2		*	2.5	*	1.008	1.004-1.014	
Tetra	PCB-56/60	8.92e+05	0.73	y 36:48	1.11	485		*	2.5	*	1.023	1.018-1.028	
Tetra	PCB-79	7.70e+04	0.66	y 37:53	1.16	39.9		*	2.5	*	1.053	1.048-1.058	
Tetra	PCB-78	*	*	n NotF η	1.18	*		2380	2.5	29.6	*	0.982-0.992	
Tetra	PCB-81	1.60e+04	1.23	n 39:03	1.29	7.80	R	*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-77	2.05e+05	0.86	y 39:41	1.29	105		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-104	*	*	n NotF η	1.26	*		1770	2.5	48.1	*	0.996-1.006	
Penta	PCB-96	3.87e+04	1.05	n 33:59	1.09	34.2	R	*	2.5	*	1.040	1.034-1.044	
Penta	PCB-103	*	*	n NotF η	0.97	*		1770	2.5	62.7	*	1.051-1.061	
Penta	PCB-100	*	*	n NotF η	0.96	*		1770	2.5	63.0	*	1.061-1.071	
Penta	PCB-94	*	*	n NotF η	1.13	*		1770	2.5	59.9	*	0.980-0.990	
Penta	PCB-95/98/102	3.94e+06	1.64	y 35:51	1.29	3430		*	2.5	*	1.000	0.994-1.004	
Penta	PCB-93	*	*	n NotF η	1.06	*		1770	2.5	63.8	*	0.998-1.008	
Penta	PCB-88/91	5.61e+05	1.45	y 36:16	1.12	559		*	2.5	*	1.012	1.006-1.016	
Penta	PCB-121	*	*	n NotF η	1.76	*		1770	2.5	38.5	*	1.009-1.019	
Penta	PCB-84/92	1.88e+06	1.51	y 37:10	1.07	1850		*	2.5	*	0.990	0.985-0.995	
Penta	PCB-89	*	*	n NotF η	1.00	*		1770	2.5	55.5	*	0.990-1.000	

Analyst: DMS
Date: 3/2/15

Client ID: ST-OF-01-20150210-W
Lab ID: 1500166-03@20X

Filename: 150227E1 S:3 Acq:27-FEB-15 14:44:54
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.011

ConCal: ST150227E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	4.52e+06	1.66	y 37:32	1.21	3950		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-113	*	*	n NotF η	1.34	*		1770	2.5	41.3	*	1.002-1.012	
Penta	PCB-99	1.74e+06	1.60	y 37:53	1.25	1470		*	2.5	*	1.009	1.004-1.014	
Penta	PCB-119	1.05e+05	1.67	y 38:19	1.88	65.0		*	2.5	*	0.987	0.982-0.992	
Penta	PCB-108/112	2.49e+05	1.61	y 38:30	1.41	206		*	2.5	*	0.992	0.986-0.996	
Penta	PCB-83	*	*	n NotF η	1.66	*		1770	2.5	40.9	*	0.990-1.000	
Penta	PCB-97	1.33e+06	1.50	y 38:51	1.30	1190		*	2.5	*	1.001	0.995-1.005	
Penta	PCB-86	*	*	n NotF η	1.03	*		1770	2.5	65.8	*	0.999-1.009	
Penta	PCB-87/117/125	1.98e+06	1.56	y 39:08	1.59	1450		*	2.5	*	1.008	1.002-1.012	
Penta	PCB-111/115	9.33e+04	1.61	y 39:17	1.86	58.4		*	2.5	*	1.012	1.006-1.016	
Penta	PCB-85/116	6.93e+05	1.45	y 39:22	1.39	579		*	2.5	*	1.014	1.010-1.020	
Penta	PCB-120	1.87e+04	0.95	n 39:35	1.99	11.0	R	*	2.5	*	1.020	1.016-1.026	
Penta	PCB-110	8.41e+06	1.60	y 39:46	1.70	5750		*	2.5	*	1.024	1.019-1.029	
Penta	PCB-82	4.69e+05	1.71	y 40:24	0.74	494		*	2.5	*	0.976	0.971-0.981	
Penta	PCB-124	3.02e+05	1.77	y 41:05	1.30	181		*	2.5	*	0.993	0.988-0.998	
Penta	PCB-107/109	3.20e+05	1.68	y 41:15	1.34	187		*	2.5	*	0.997	0.991-1.001	
Penta	PCB-123	7.64e+04	1.53	y 41:24	1.25	47.7		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-106/118	5.26e+06	1.58	y 41:34	1.29	3380		*	2.5	*	1.000	0.996-1.006	
Penta	PCB-114	8.57e+04	1.83	n 42:13	1.45	47.0	R	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-122	5.82e+04	1.20	n 42:21	1.22	38.0	R	*	2.5	*	1.003	0.999-1.009	
Penta	PCB-105	2.28e+06	1.70	y 43:05	1.56	1250		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n NotF η	1.31	*		2420	2.5	55.0	*	0.995-1.005	
Penta	PCB-126	5.10e+04	1.87	n 45:19	1.41	30.7	R	*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-155	*	*	n NotF η	1.20	*		1700	2.5	35.7	*	0.966-1.006	
Hexa	PCB-150	*	*	n NotF η	1.13	*		1700	2.5	38.0	*	1.030-1.040	
Hexa	PCB-152	*	*	n NotF η	1.17	*		1700	2.5	36.7	*	1.043-1.053	
Hexa	PCB-145	*	*	n NotF η	1.09	*		1700	2.5	39.2	*	1.055-1.065	
Hexa	PCB-136	9.94e+05	1.27	y 39:35	1.14	771		*	2.5	*	1.068	1.063-1.073	
Hexa	PCB-148	*	*	n NotF η	0.82	*		1700	2.5	52.4	*	1.066-1.076	
Hexa	PCB-154	4.21e+04	0.87	n 40:11	0.89	41.8	R	*	2.5	*	1.084	1.079-1.089	
Hexa	PCB-151	1.27e+06	1.25	y 40:49	0.82	1370		*	2.5	*	1.101	1.097-1.107	
Hexa	PCB-135	7.48e+05	1.26	y 41:01	0.80	831		*	2.5	*	1.106	1.101-1.113	
Hexa	PCB-144	3.38e+05	1.24	y 41:08	0.86	349		*	2.5	*	1.109	1.105-1.116	
Hexa	PCB-147	9.76e+04	1.39	y 41:17	0.78	111		*	2.5	*	1.114	1.108-1.120	
Hexa	PCB-139/149	4.91e+06	1.22	y 41:31	0.87	4990		*	2.5	*	1.120	1.115-1.127	
Hexa	PCB-140	*	*	n NotF η	0.78	*		1700	2.5	55.1	*	1.120-1.132	
Hexa	PCB-134/143	3.83e+05	1.33	y 42:10	0.93	318		*	2.5	*	0.975	0.970-0.980	

Analyst: DMS

Date: 3/2/15

Client ID: ST-OF-01-20150210-W
Lab ID: 1500166-03@20X

Filename: 150227E1 S:3 Acq:27-FEB-15 14:44:54
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.011

ConCal: ST150227E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	1.78e+05	1.38	y 42:27	0.91	151		*	2.5	*	0.982	0.977-0.987	
Hexa	PCB-131	3.95e+03	1.22	y 42:39	0.85	3.60		*	2.5	*	0.986	0.981-0.991	
Hexa	PCB-146/165	1.13e+06	1.26	y 42:51	1.08	805		*	2.5	*	0.991	0.986-0.996	
Hexa	PCB-132/161	2.84e+06	1.19	y 43:06	1.12	1960		*	2.5	*	0.997	0.992-1.002	
Hexa	PCB-153	6.18e+06	1.30	y 43:14	1.20	3980		*	2.5	*	1.000	0.996-1.006	
Hexa	PCB-168	*	*	n NotF η	1.36	*		2140	2.5	34.5	*	1.000-1.010	
Hexa	PCB-141	1.44e+06	1.25	y 43:59	1.16	1090		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-137	2.95e+05	1.23	y 44:21	1.18	220		*	2.5	*	1.009	1.004-1.014	
Hexa	PCB-130	4.44e+05	1.10	y 44:27	0.92	423		*	2.5	*	1.011	1.006-1.016	
Hexa	PCB-138/163/164	9.21e+06	1.24	y 44:50	1.38	5960		*	2.5	*	1.001	0.996-1.006	
Hexa	PCB-158/160	1.18e+06	1.17	y 45:03	1.48	717		*	2.5	*	1.006	1.001-1.011	
Hexa	PCB-129	3.58e+05	1.12	y 45:19	0.99	324		*	2.5	*	1.012	1.007-1.017	
Hexa	PCB-166	*	*	n NotF η	1.14	*		2140	2.5	40.0	*	0.988-0.998	
Hexa	PCB-159	*	*	n NotF η	1.22	*		2140	2.5	37.4	*	0.995-1.005	
Hexa	PCB-128/162	1.53e+06	1.37	y 46:22	1.03	1050		*	2.5	*	1.006	1.002-1.012	
Hexa	PCB-167	3.78e+05	1.32	y 46:47	1.18	229		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-156	8.81e+05	1.22	y 48:05	1.27	484		*	2.5	*	1.001	0.995-1.005	
Hexa	PCB-157	2.39e+05	1.23	y 48:20	1.22	133		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-169	*	*	n NotF η	1.07	*		2140	2.5	38.0	*	0.995-1.005	
Hepta	PCB-188	*	*	n NotF η	1.52	*		1840	2.5	26.0	*	0.996-1.006	
Hepta	PCB-184	*	*	n NotF η	1.34	*		1840	2.5	29.6	*	1.006-1.016	
Hepta	PCB-179	1.01e+06	1.07	y 44:05	1.39	814		*	2.5	*	1.029	1.024-1.034	
Hepta	PCB-176	3.43e+05	1.19	y 44:33	1.45	263		*	2.5	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotF η	1.46	*		1840	2.5	27.2	*	1.049-1.059	
Hepta	PCB-178	3.80e+05	1.00	y 45:39	1.07	396		*	2.5	*	1.065	1.061-1.071	
Hepta	PCB-175	7.85e+04	1.13	y 46:00	1.05	83.9		*	2.5	*	1.073	1.069-1.079	
Hepta	PCB-182/187	2.42e+06	1.11	y 46:09	1.14	2380		*	2.5	*	1.077	1.073-1.083	
Hepta	PCB-183	1.14e+06	1.07	y 46:30	1.22	1040		*	2.5	*	1.085	1.080-1.090	
Hepta	PCB-185	2.29e+05	0.93	y 47:09	1.40	194		*	2.5	*	0.956	0.950-0.960	
Hepta	PCB-174	1.96e+06	1.10	y 47:30	1.29	1810		*	2.5	*	0.963	0.958-0.968	
Hepta	PCB-181	*	*	n NotF η	1.35	*		1840	2.5	27.4	*	0.960-0.970	
Hepta	PCB-177	1.07e+06	1.00	y 47:47	1.27	1010		*	2.5	*	0.968	0.963-0.973	
Hepta	PCB-171	5.57e+05	0.99	y 48:05	1.46	455		*	2.5	*	0.975	0.969-0.979	
Hepta	PCB-173	4.52e+04	1.49	n 48:30	1.10	48.8	R	*	2.5	*	0.983	0.978-0.988	
Hepta	PCB-172	3.53e+05	1.09	y 48:57	1.35	311		*	2.5	*	0.992	0.987-0.997	
Hepta	PCB-192	*	*	n NotF η	1.74	*		1840	2.5	21.3	*	0.991-1.001	
Hepta	PCB-180	4.48e+06	1.07	y 49:21	1.45	3680		*	2.5	*	1.000	0.995-1.005	

Analyst: DMS

Date: 3/2/15

Client ID: ST-OF-01-20150210-W
Lab ID: 1500166-03@20X

Filename: 150227E1 S:3 Acq:27-FEB-15 14:44:54
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.011

ConCal: ST150227E1-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	2.89e+05	1.07	y 49:33	1.85	186		*	2.5	*	1.004	0.999-1.009	
Hepta	PCB-191	1.29e+05	1.07	y 49:48	1.86	82.3		*	2.5	*	1.009	1.005-1.015	
Hepta	PCB-170	1.80e+06	1.15	y 50:48	1.67	1600		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-190	4.72e+05	1.18	y 50:58	2.25	313		*	2.5	*	1.003	0.999-1.009	
Hepta	PCB-189	1.11e+05	1.04	y 52:16	1.67	75.6		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-202	2.17e+05	0.76	y 48:16	1.02	211		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-201	1.46e+05	1.13	n 48:46	1.10	132	R	*	2.5	*	1.011	1.005-1.015	
Octa	PCB-204	*	*	n NotF η	1.07	*		1680	2.5	37.0	*	1.009-1.019	
Octa	PCB-197	2.93e+04	0.64	n 49:13	1.17	24.9	R	*	2.5	*	1.020	1.015-1.025	
Octa	PCB-200	1.46e+05	0.92	y 50:05	1.03	140		*	2.5	*	1.038	1.034-1.044	
Octa	PCB-198	4.41e+04	0.83	y 51:22	0.75	58.0		*	2.5	*	1.065	1.062-1.072	
Octa	PCB-199	7.27e+05	1.04	n 51:28	0.74	971	R	*	2.5	*	1.067	1.064-1.074	
Octa	PCB-196/203	9.57e+05	0.92	y 51:44	0.83	1140		*	2.5	*	1.072	1.070-1.080	
Octa	PCB-195	2.55e+05	0.98	y 52:53	1.14	311		*	2.5	*	0.984	0.979-0.989	
Octa	PCB-194	5.69e+05	0.91	y 53:45	1.29	613		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	4.62e+04	0.87	y 54:01	1.61	39.9		*	2.5	*	1.005	1.001-1.010	
Nona	PCB-208	1.63e+05	1.27	y 53:01	1.01	151		*	2.5	*	1.000	0.995-1.005	
Nona	PCB-207	6.21e+04	1.43	y 53:20	1.03	56.7		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-206	3.78e+05	1.44	y 55:24	0.88	546		*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	2.59e+05	1.24	y 56:45	1.35	228		*	2.5	*	1.000	0.995-1.005	

Analyst: DMJ

Date: 3/2/15

Client ID: ST-OF-01-20150210-W
Lab ID: 1500166-03@20X

Filename: 150227E1 S:3 Acq:27-FEB-15 14:44:54
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.0106 EndCAL: NA

ConCal: ST150227E1-1

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	1.92e+05	3.34 y	16:11	1.31	77.1750	
Total Di-PCB	1.30e+06	1.55 y	23:00	1.32	583.959	
Total Tri-PCB	4.66e+05	1.12 y	26:39	1.20	279.708	
Total Tri-PCB	3.51e+06	1.13 y	28:32	1.23	2055.17	Sum:2334.88
Total Tetra-PCB	1.17e+07	0.67 y	30:10	1.17	7650.21	
Total Penta-PCB	3.19e+07	1.64 y	35:51	1.24	24841.7	
Total Penta-PCB	2.28e+06	1.70 y	43:05	1.39	1250.85	Sum:26092.6
Total Hexa-PCB	8.35e+06	1.27 y	39:35	0.94	8419.33	
Total Hexa-PCB	2.67e+07	1.33 y	42:10	1.13	17848.1	Sum:26267.4
Total Hepta-PCB	1.68e+07	1.07 y	44:05	1.37	14698.4	
Total Octa-PCB	1.36e+06	0.76 y	48:16	0.95	1552.95	
Total Octa-PCB	8.70e+05	0.98 y	52:53	1.35	963.633	Sum:2516.59
Total Nona-PCB	6.03e+05	1.27 y	53:01	0.99	754.034	
Total Deca-PCB	2.59e+05	1.24 y	56:45	1.35	228.135	

Total PCB Conc:83296.1423420

Integrations

by

Analyst: *DMAS*

Date: *3/2/15*

Client ID: ST-OF-01-20150210-W
Lab ID: 1500166-03@20X

Filename: 150227E1 S:3
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15
Acq:27-FEB-15 14:44:54
wt/vol:1.0106

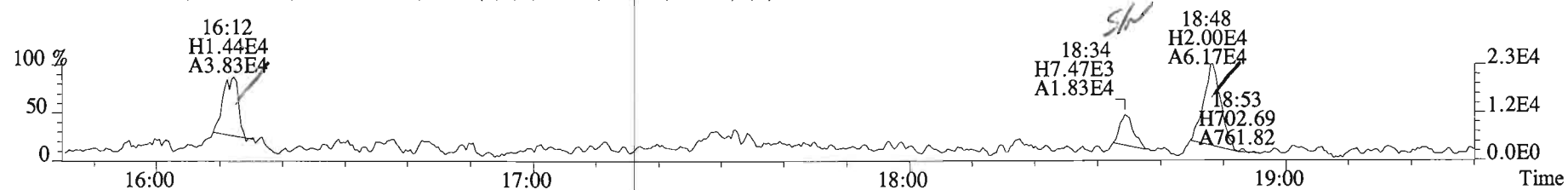
ConCal: ST150227E1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	3.73e+06	3.39 y	0.91	16:11	0.622	0.619-0.625		2070	105											
13C-PCB-3	3.75e+06	2.93 y	0.94	18:48	0.723	0.718-0.726		2020	102		13C-PCB-79	3.92e+06	0.79 y	1.02	37:50	1.029	1.024-1.033		2000	101
13C-PCB-4	1.80e+06	1.63 y	0.60	20:07	0.774	0.770-0.778		1520	76.9		13C-PCB-178	1.65e+06	0.46 y	0.64	45:39	0.985	0.980-0.989		1990	100
13C-PCB-9	3.15e+06	1.58 y	0.96	21:55	0.843	0.839-0.847		1660	83.8											
13C-PCB-11	3.34e+06	1.51 y	0.95	25:18	0.973	0.968-0.978		1770	89.4											
13C-PCB-19	2.19e+06	1.14 y	0.56	24:16	0.933	0.929-0.939		1970	99.7											
13C-PCB-28	2.72e+06	1.10 y	1.07	29:10	1.004	0.999-1.009		1290	65.3		13C-PCB-79	3.92e+06	0.79 y	1.02	37:50	0.968	0.963-0.973		2400	121
13C-PCB-32	3.04e+06	1.18 y	0.83	27:10	1.045	1.041-1.051		1870	94.3		13C-PCB-178	1.65e+06	0.46 y	0.84	45:39	0.925	0.920-0.930		2330	118
13C-PCB-37	2.94e+06	1.07 y	0.96	33:01	1.137	1.131-1.143		1550	78.5											
13C-PCB-47	2.37e+06	0.87 y	0.77	32:03	0.871	0.867-0.875		1610	81.2											
13C-PCB-52	2.16e+06	0.77 y	0.71	31:32	0.857	0.853-0.861		1580	80.1											
13C-PCB-54	2.86e+06	0.86 y	1.06	28:00	0.761	0.757-0.765		1410	71.2											
13C-PCB-70	3.02e+06	0.82 y	0.99	35:33	0.966	0.961-0.971		1580	80.0											
13C-PCB-77	2.99e+06	0.85 y	0.96	39:40	1.078	1.073-1.083		1620	81.8											
13C-PCB-80	3.29e+06	0.81 y	1.02	35:59	0.978	0.973-0.983		1680	84.9											
13C-PCB-81	3.15e+06	0.82 y	1.00	39:04	1.062	1.057-1.067		1650	83.2											
13C-PCB-95	1.77e+06	1.64 y	0.70	35:51	0.913	0.908-0.918		1730	87.3											
13C-PCB-97	1.70e+06	1.53 y	0.66	38:50	0.989	0.984-0.994		1770	89.4											
13C-PCB-101	1.87e+06	1.53 y	0.77	37:32	0.956	0.951-0.961		1670	84.5											
13C-PCB-104	2.05e+06	1.64 y	0.97	32:41	0.833	0.828-0.836		1450	73.3											
13C-PCB-105	2.32e+06	1.53 y	1.20	43:05	0.929	0.924-0.934		1480	74.9											
13C-PCB-114	2.48e+06	1.61 y	1.26	42:13	0.911	0.905-0.915		1520	76.6											
13C-PCB-118	2.39e+06	1.63 y	0.94	41:34	1.059	1.054-1.064		1740	88.1											
13C-PCB-123	2.53e+06	1.60 y	0.88	41:23	1.054	1.049-1.059		1960	99.3											
13C-PCB-126	2.32e+06	1.68 y	1.13	45:18	0.977	0.972-0.982		1580	80.0											
13C-PCB-127	2.35e+06	1.74 y	1.26	43:25	0.936	0.931-0.941		1440	72.6											
13C-PCB-138	2.22e+06	1.31 y	1.12	44:48	0.966	0.961-0.971		1520	76.9											
13C-PCB-141	2.25e+06	1.37 y	1.09	43:58	0.948	0.943-0.953		1590	80.1											
13C-PCB-153	2.57e+06	1.34 y	1.27	43:14	0.933	0.927-0.937		1550	78.2											
13C-PCB-155	2.24e+06	1.23 y	0.87	37:04	0.944	0.939-0.949		1760	88.8											
13C-PCB-156	2.84e+06	1.23 y	1.35	48:03	1.037	1.032-1.042		1610	81.6											
13C-PCB-157	2.92e+06	1.31 y	1.42	48:20	1.042	1.037-1.047		1580	79.9											
13C-PCB-159	2.79e+06	1.42 y	1.37	46:06	0.994	0.989-0.999		1570	79.1											
13C-PCB-167	2.77e+06	1.35 y	1.38	46:46	1.009	1.004-1.014		1540	77.7											
13C-PCB-169	2.82e+06	1.32 y	1.38	50:26	1.088	1.084-1.094		1570	79.2											
13C-PCB-170	1.33e+06	0.45 y	0.60	50:47	1.096	1.091-1.103		1690	85.5											
13C-PCB-180	1.66e+06	0.44 y	0.76	49:20	1.064	1.059-1.069		1690	85.3											
13C-PCB-188	1.77e+06	0.47 y	1.01	42:51	0.924	0.919-0.929		1340	67.7											
13C-PCB-189	1.73e+06	0.46 y	0.80	52:16	1.127	1.124-1.136		1660	83.9											
13C-PCB-194	1.42e+06	0.91 y	0.75	53:45	0.995	0.990-1.000		1520	77.1											
13C-PCB-202	2.00e+06	0.99 y	0.99	48:15	1.041	1.036-1.046		1550	78.4											
13C-PCB-206	1.55e+06	0.88 y	0.73	55:23	1.025	1.020-1.301		1690	85.5											
13C-PCB-208	2.11e+06	0.77 y	1.08	53:01	0.981	0.977-0.987		1550	78.5											
13C-PCB-209	1.67e+06	1.25 y	0.71	56:44	1.050	1.045-1.055		1870	94.7											

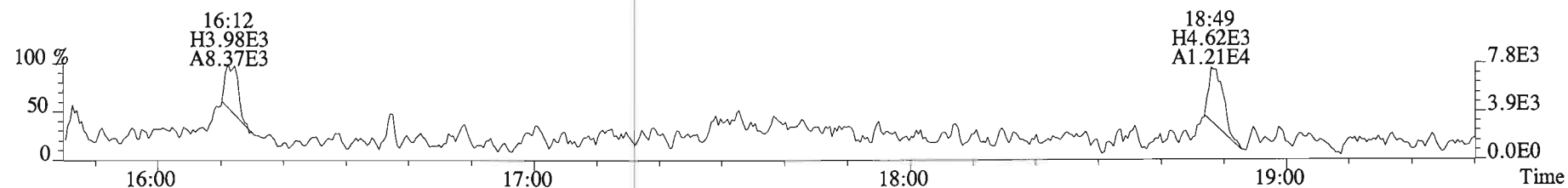
Analyst: *DMS*

Date: *3/2/15*

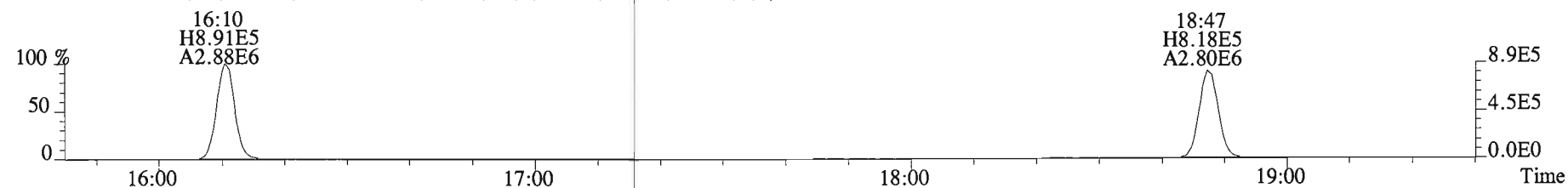
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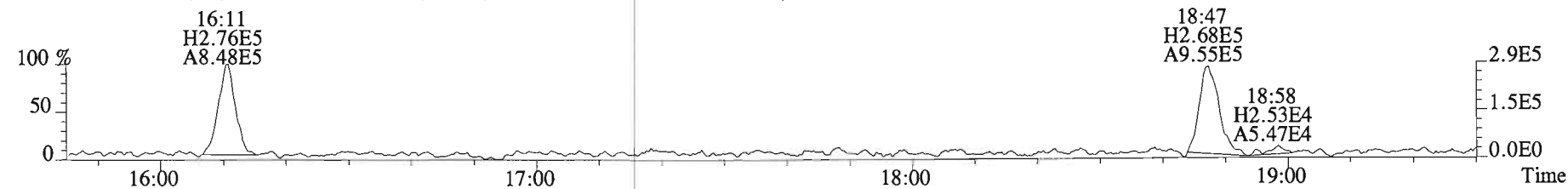
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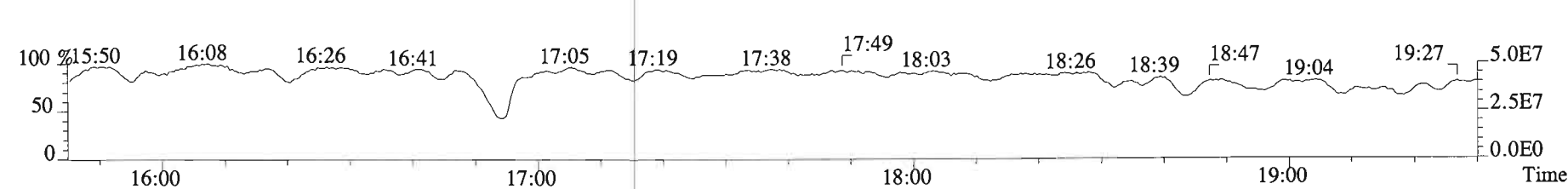
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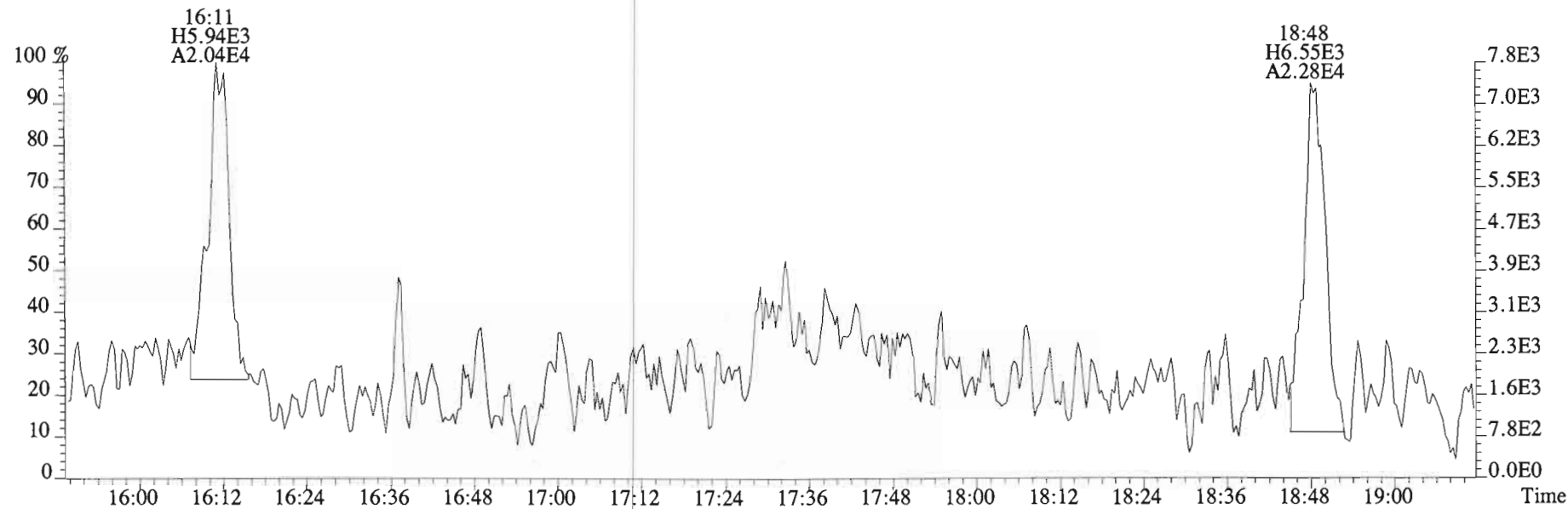
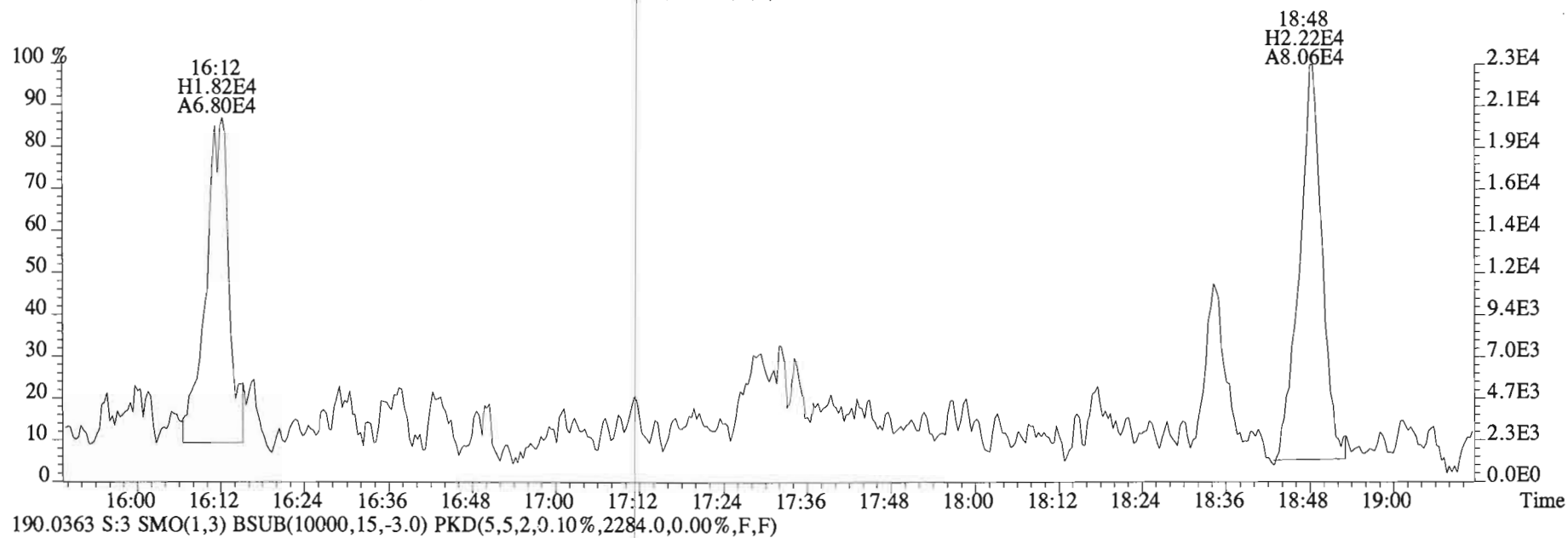
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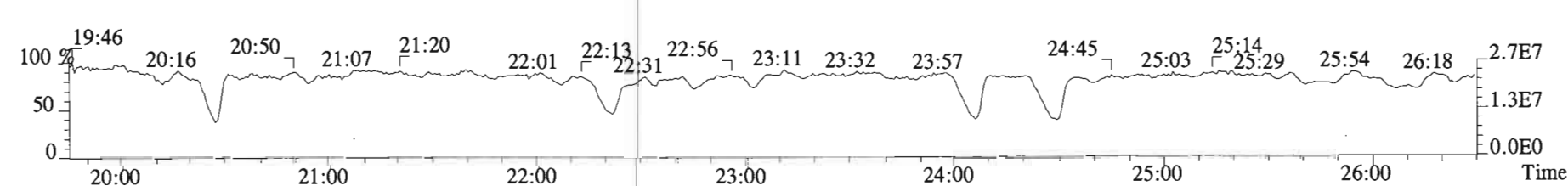
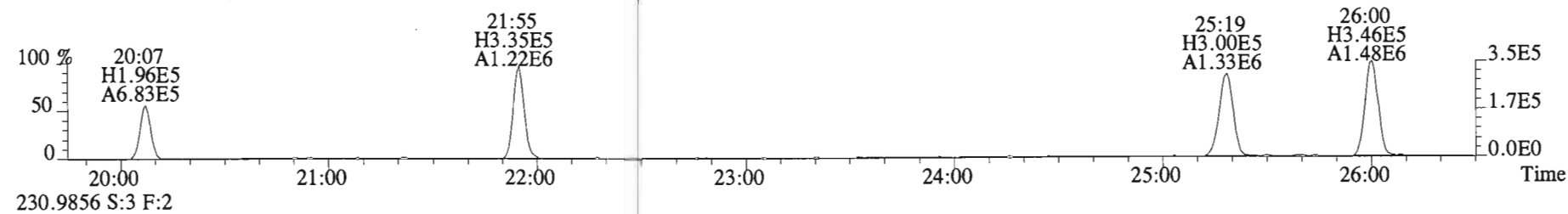
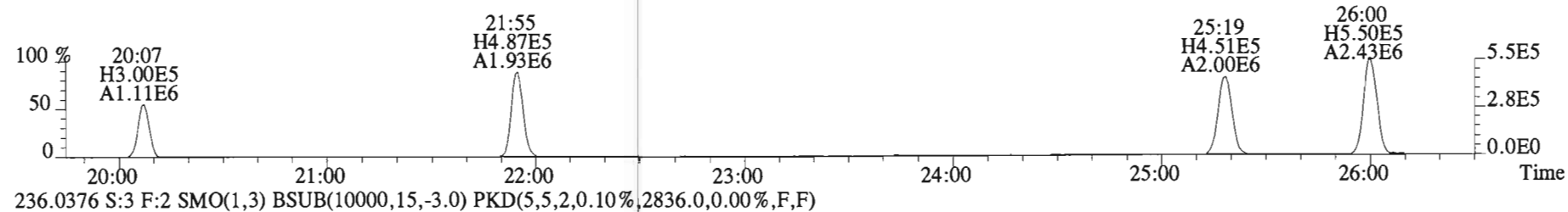
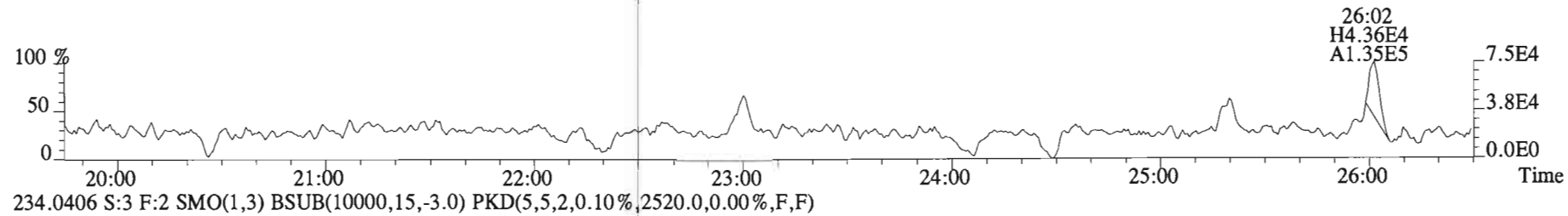
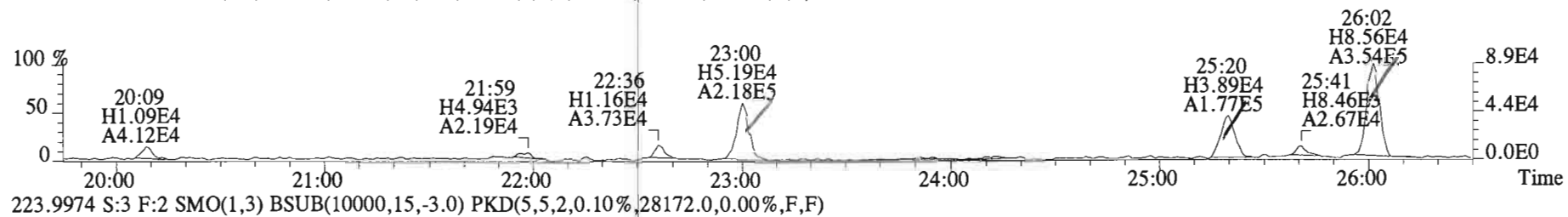
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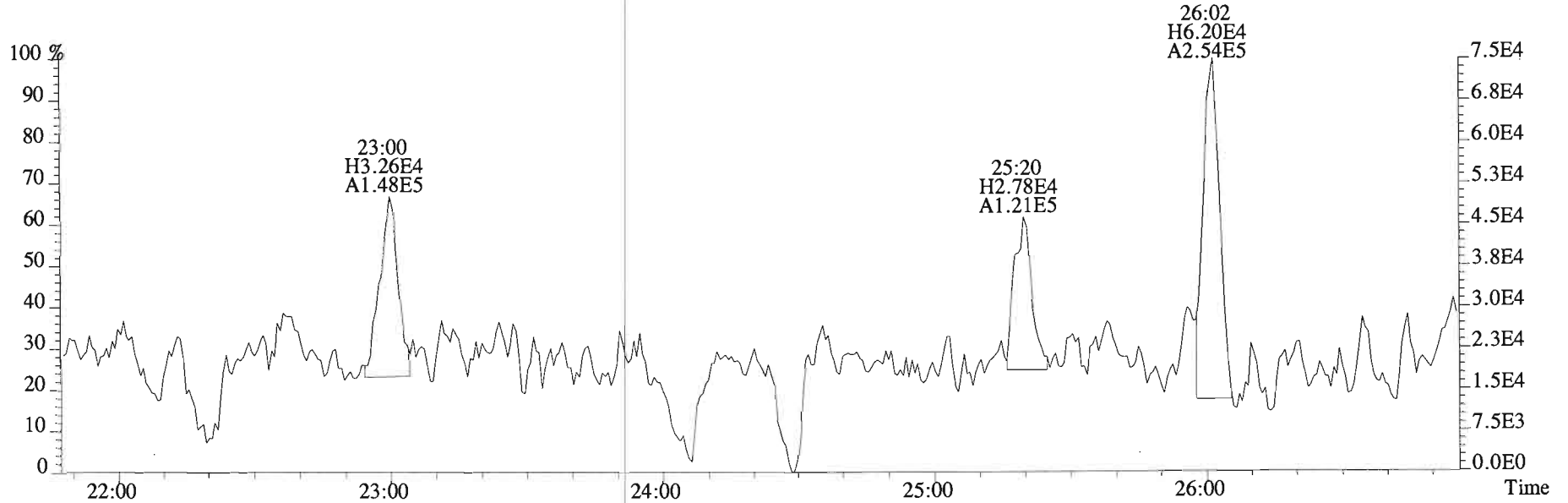
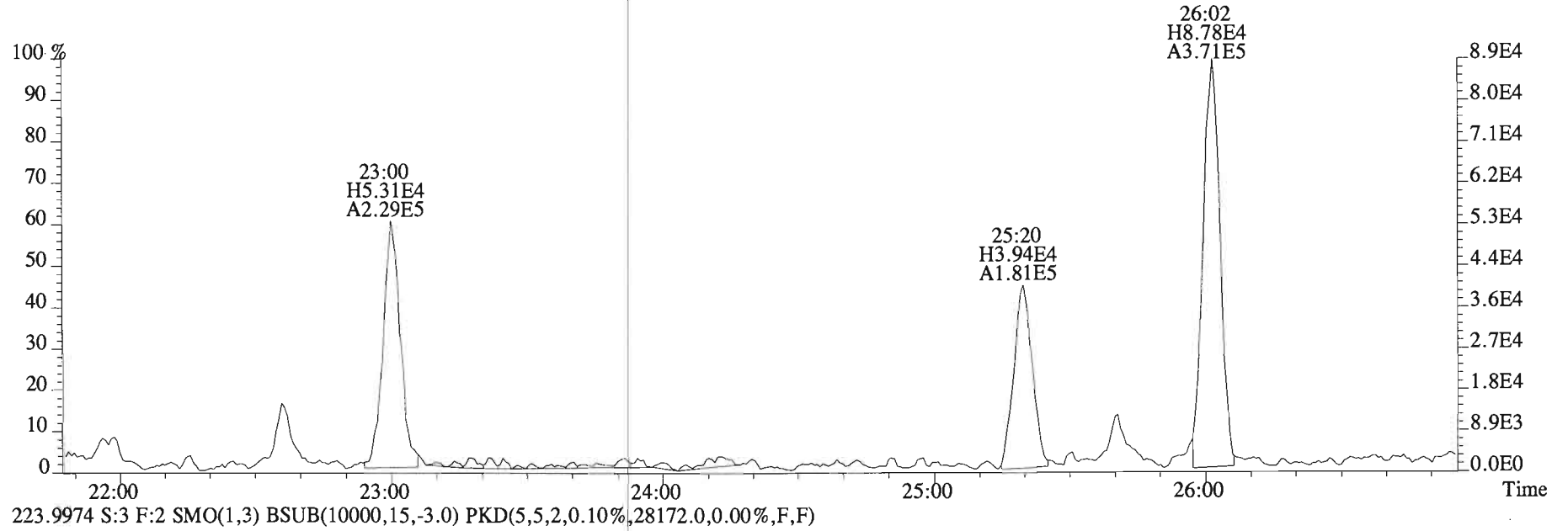
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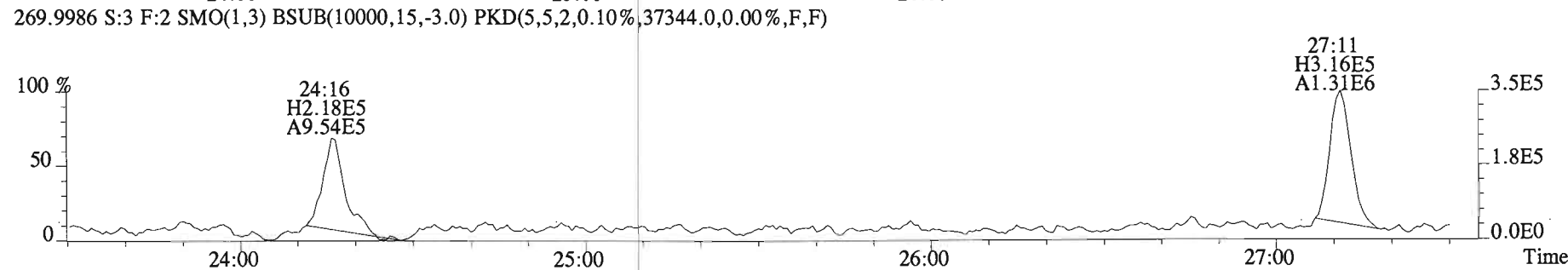
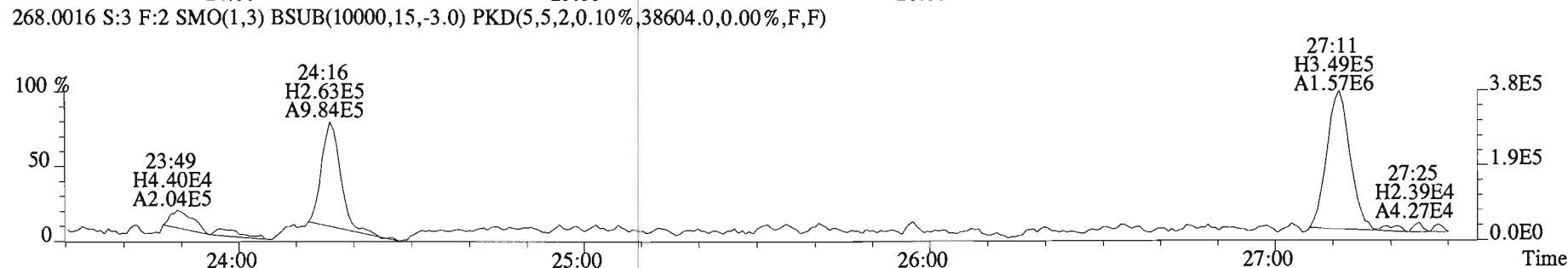
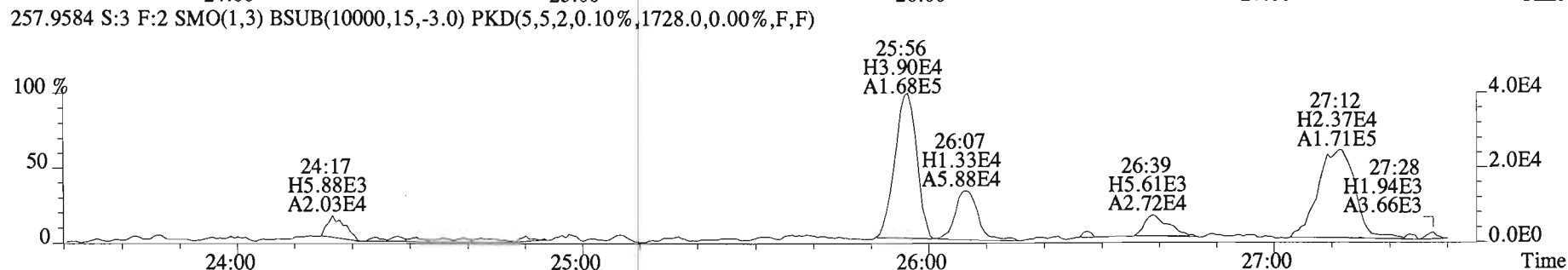
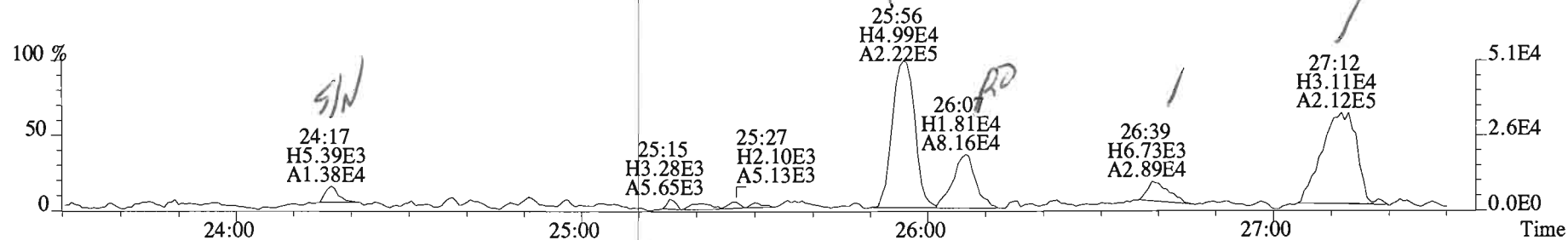
File:150227E1 #1-757 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
 222.0003 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2864.0,0.00%,F,F)



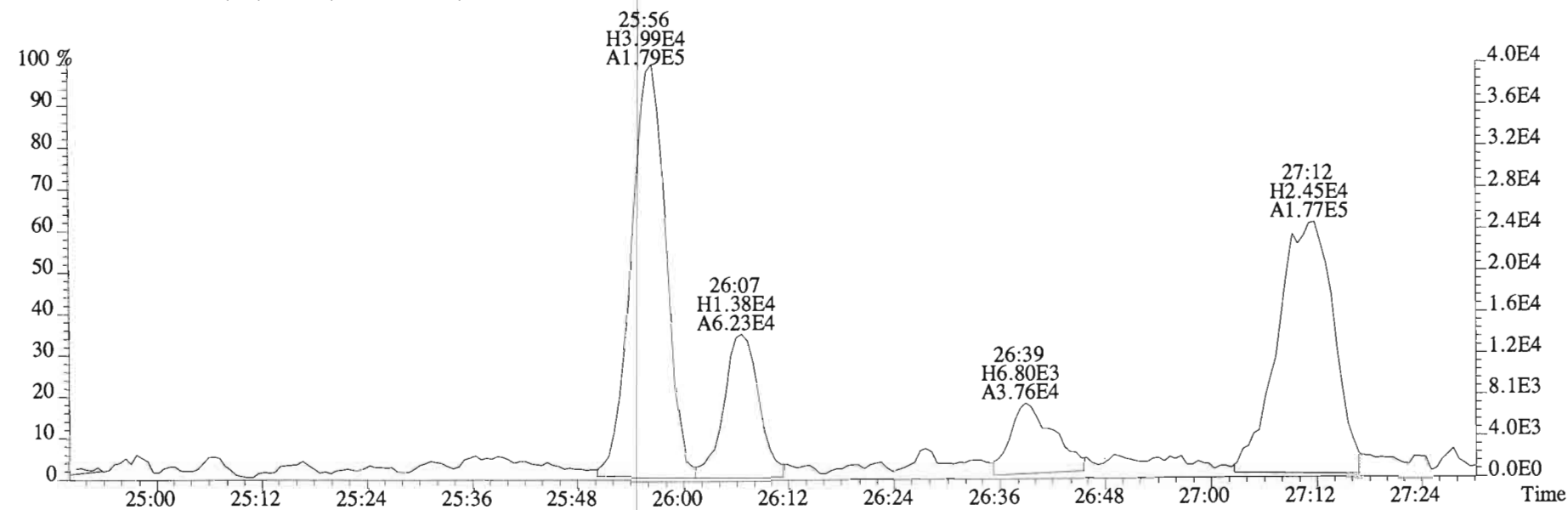
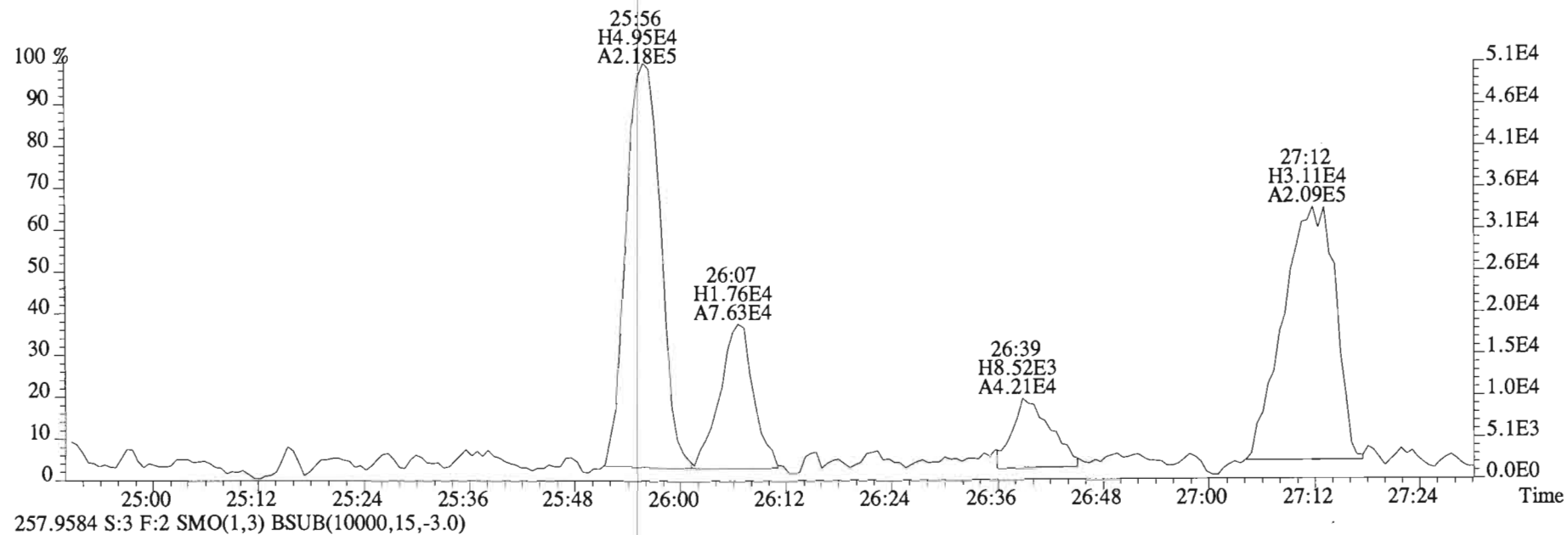
File:150227E1 #1-757 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
222.0003 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2864.0,0.00%,F,F)



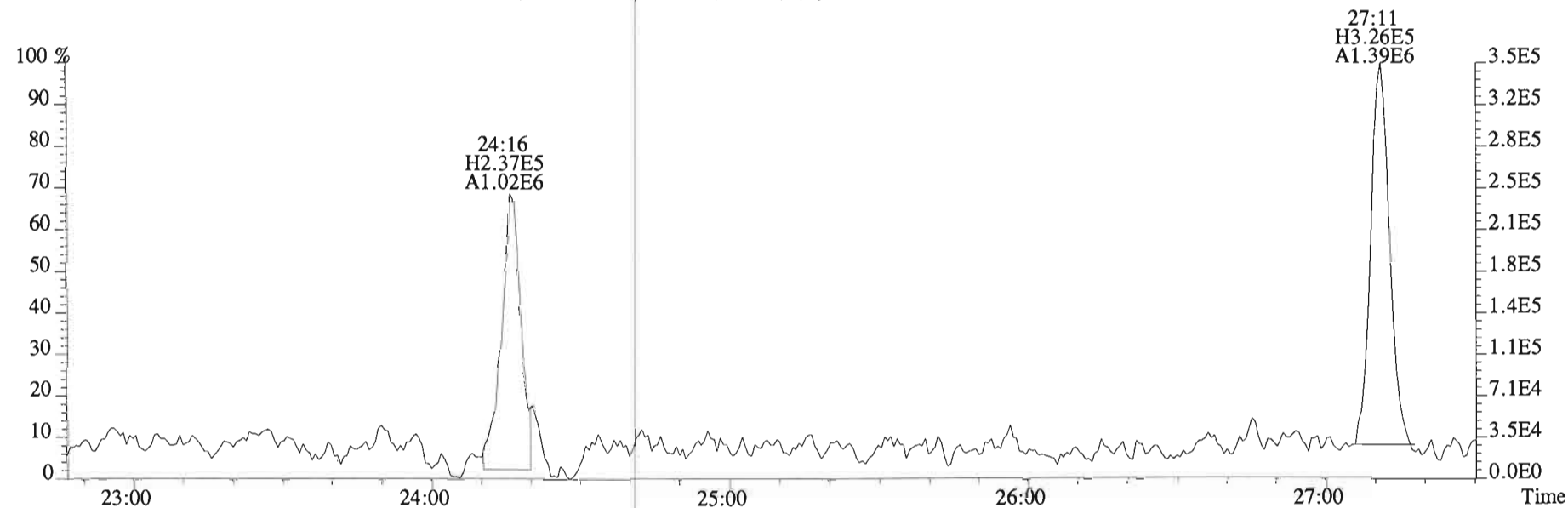
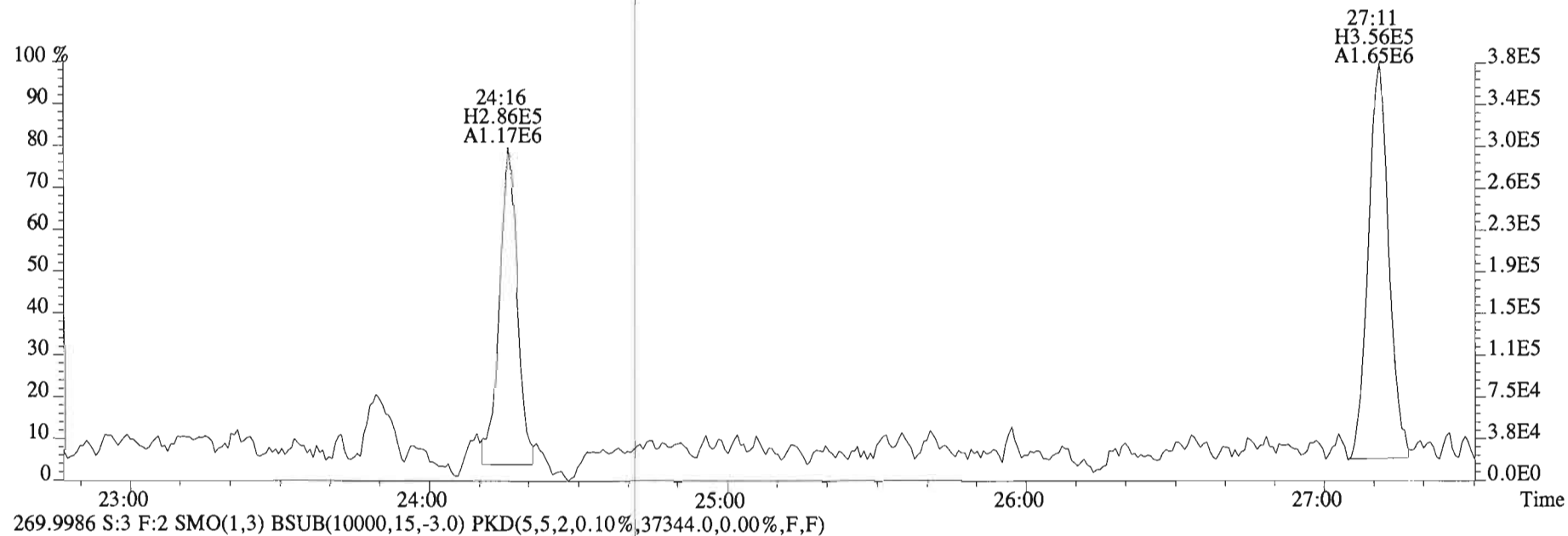
File:150227E1 #1-757 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
255.9613 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2916.0,0.00%,F,F)



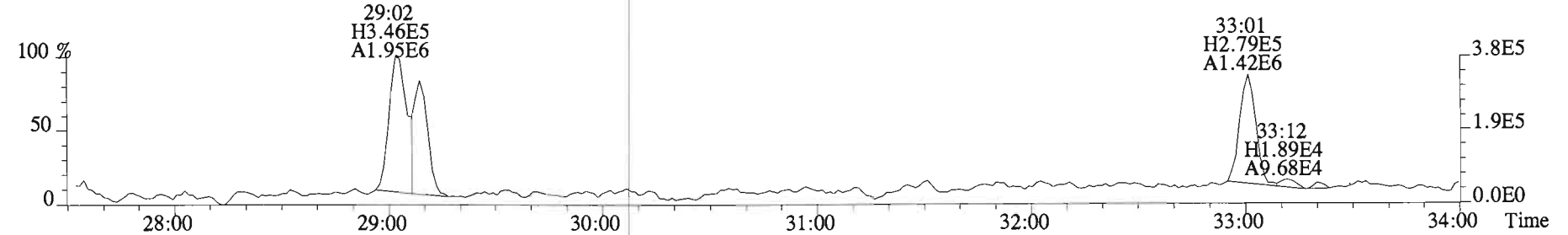
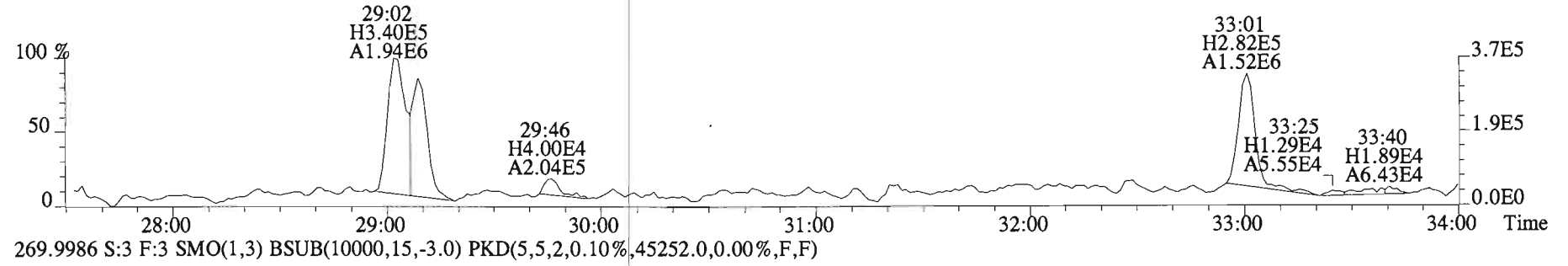
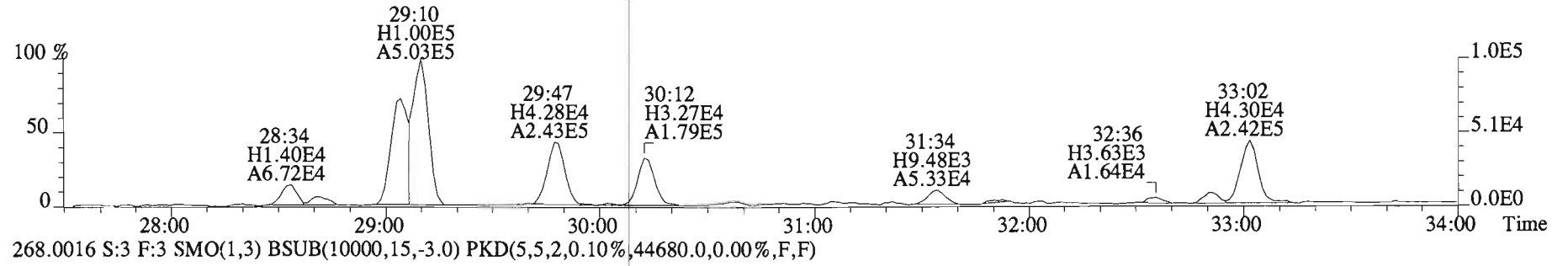
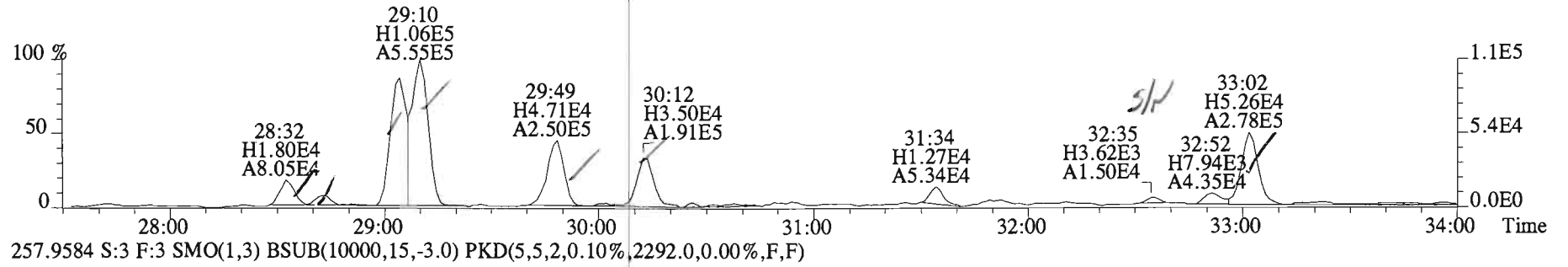
File:150227E1 #1-757 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
255.9613 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0)



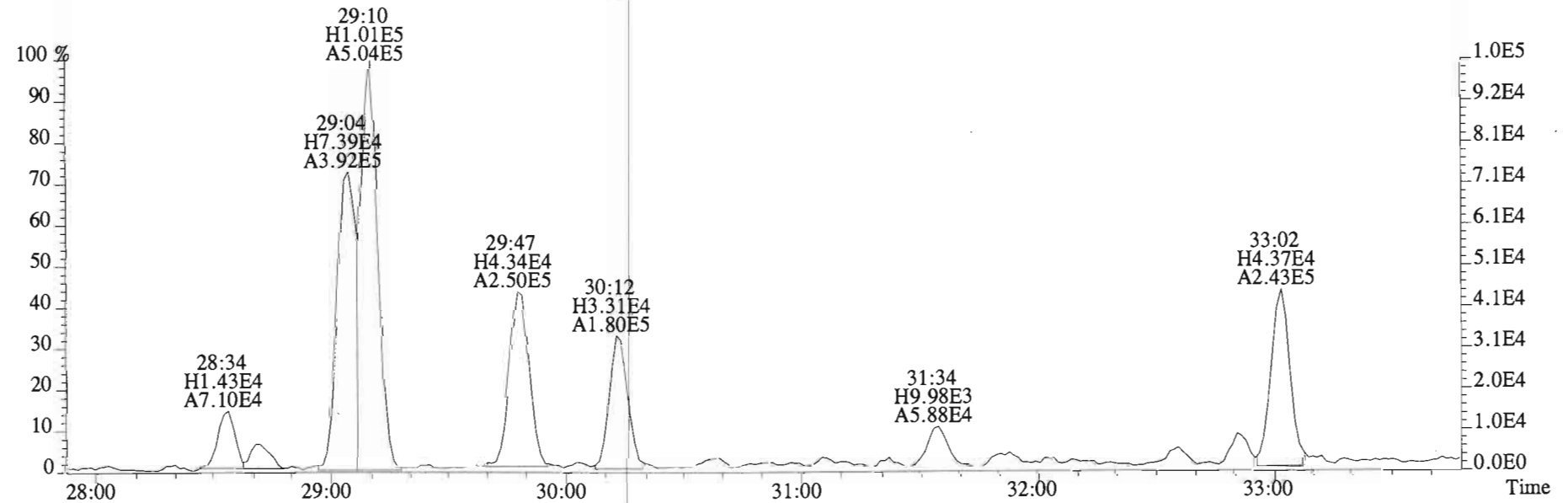
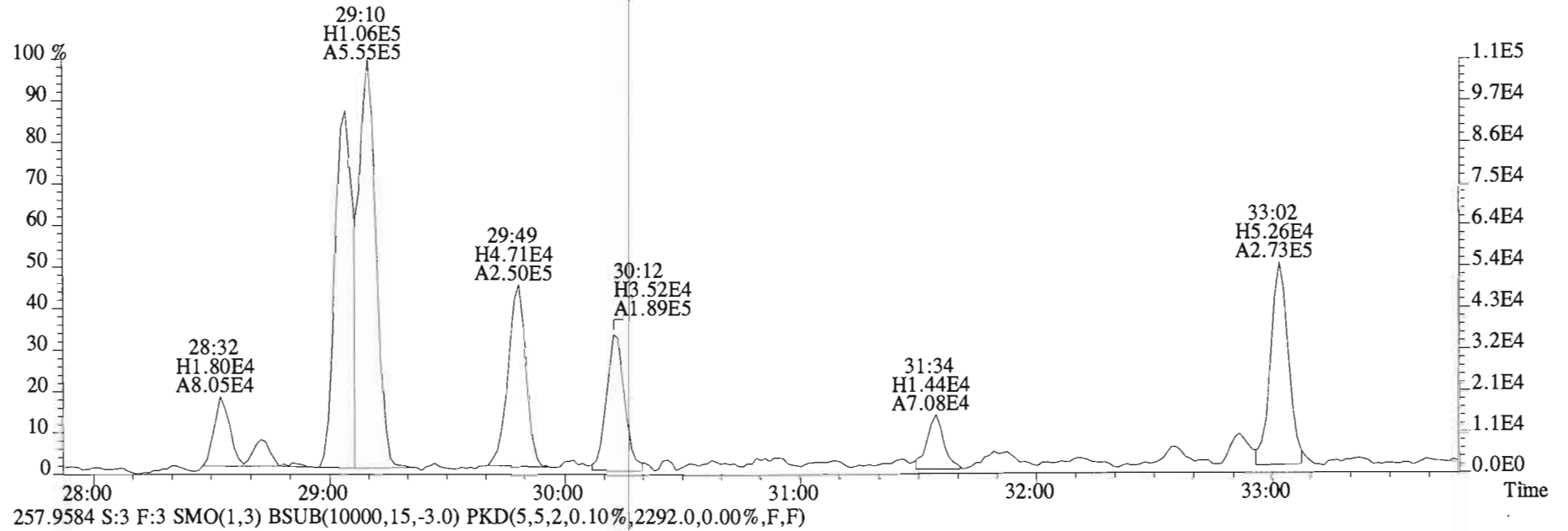
File:150227E1 #1-757 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
268.0016 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,38604.0,0.00%,F,F)



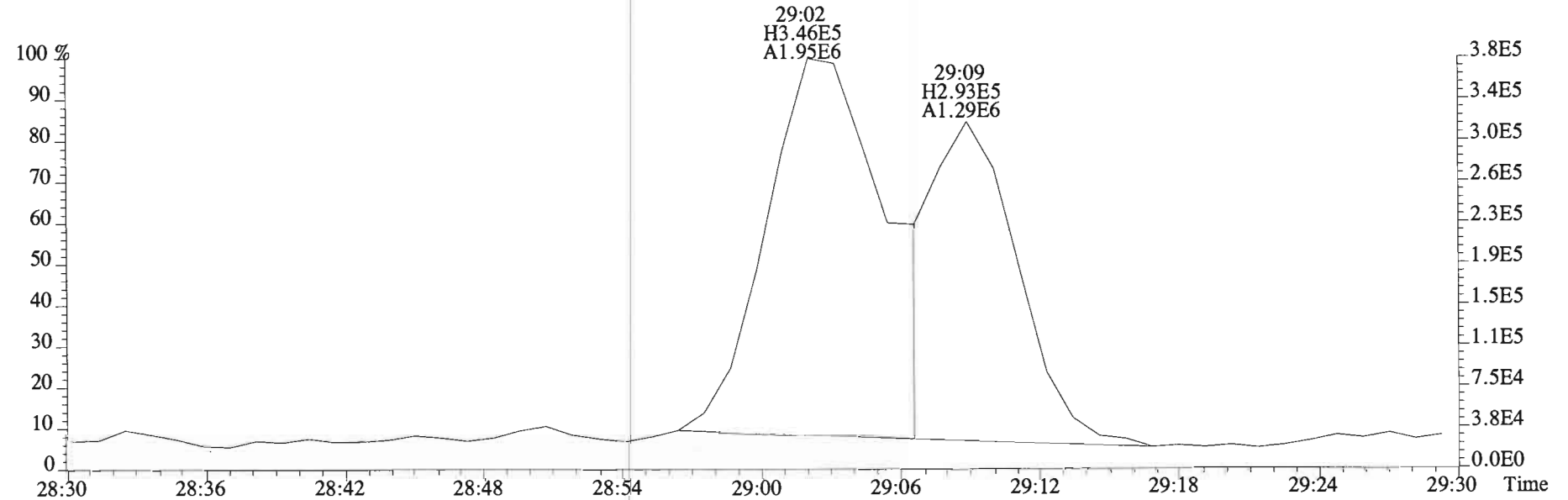
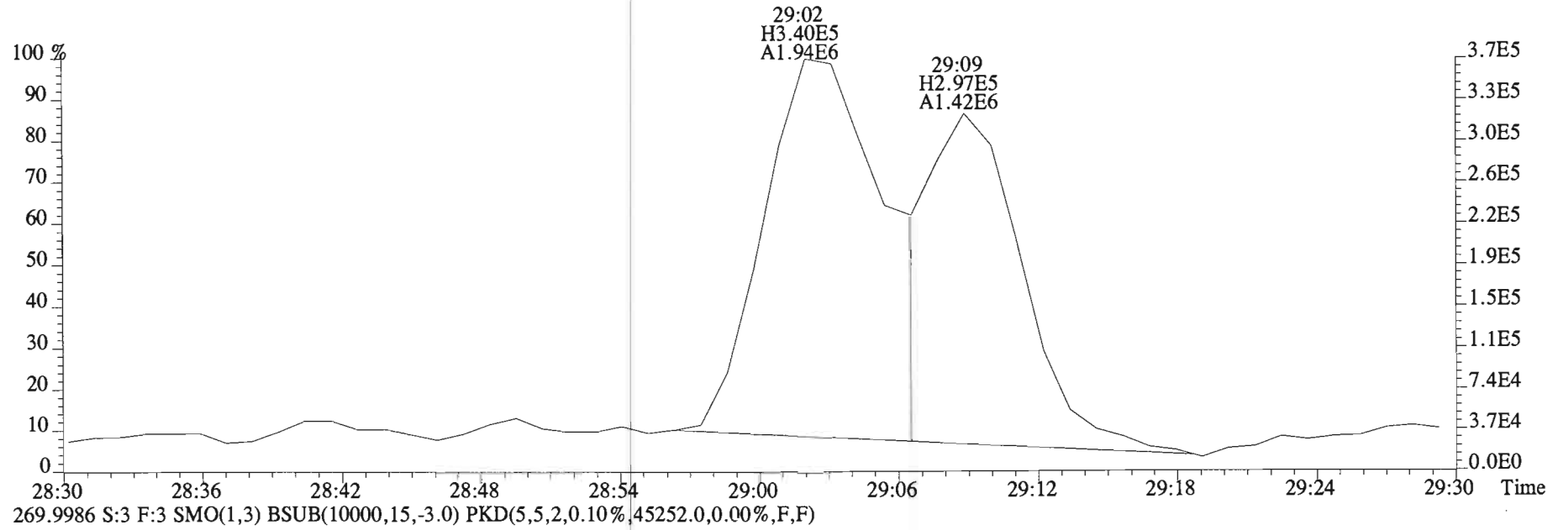
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
 255.9613 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3020.0,0.00%,F,F)



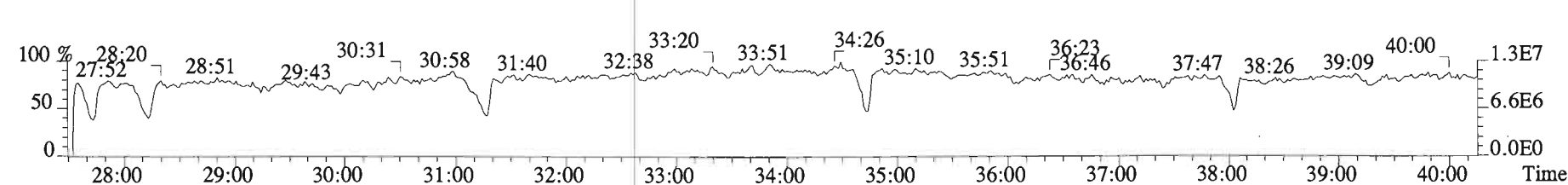
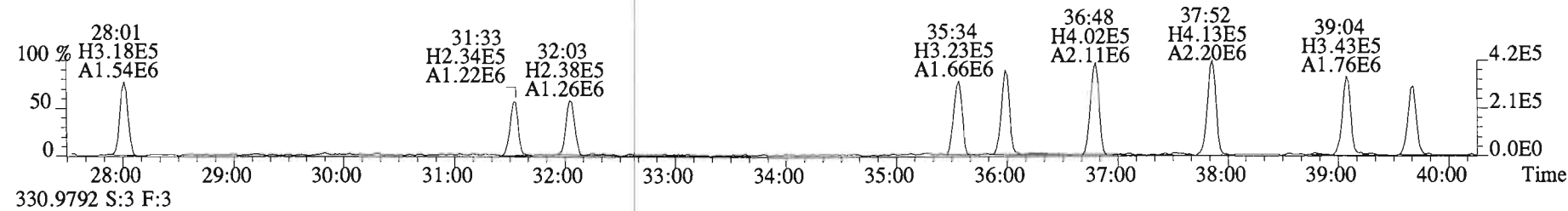
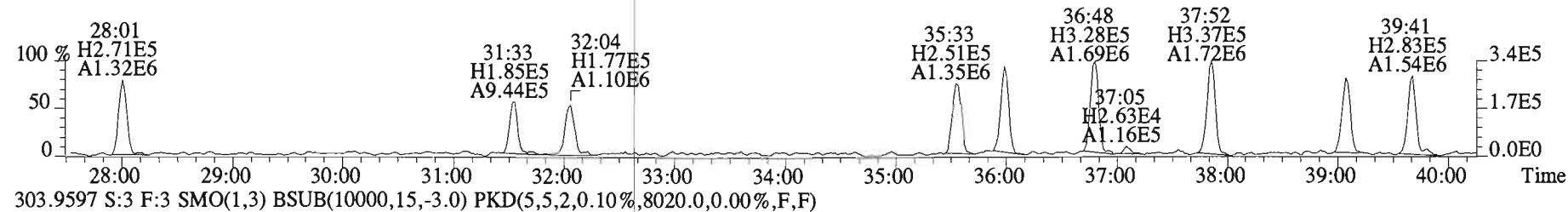
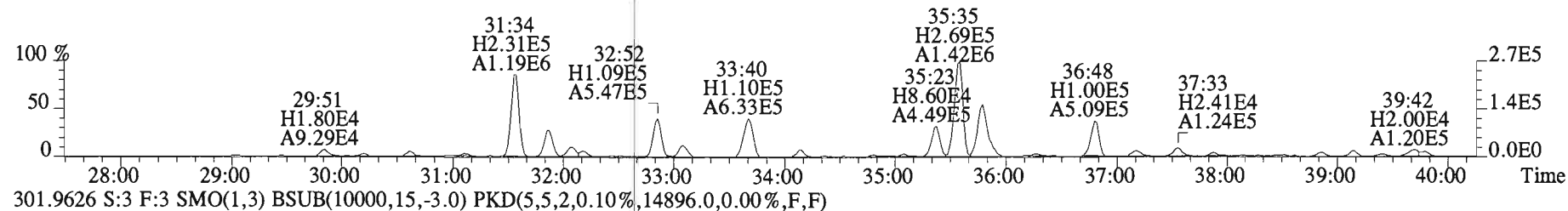
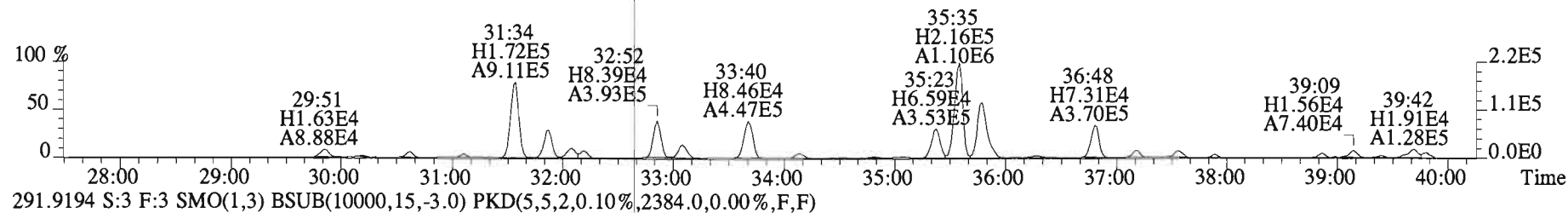
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
255.9613 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,3020.0,0.00%,F,F)



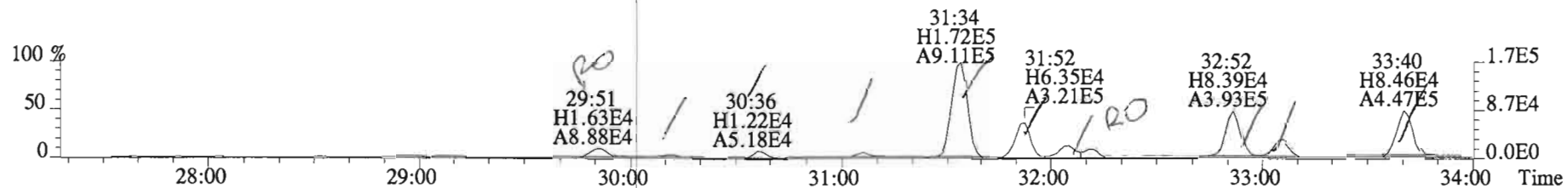
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
268.0016 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,44680.0,0.00%,F,F)



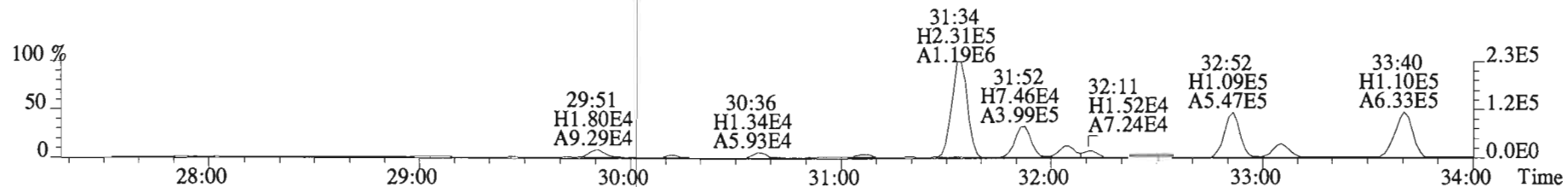
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
 289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2136.0,0.00%,F,F)



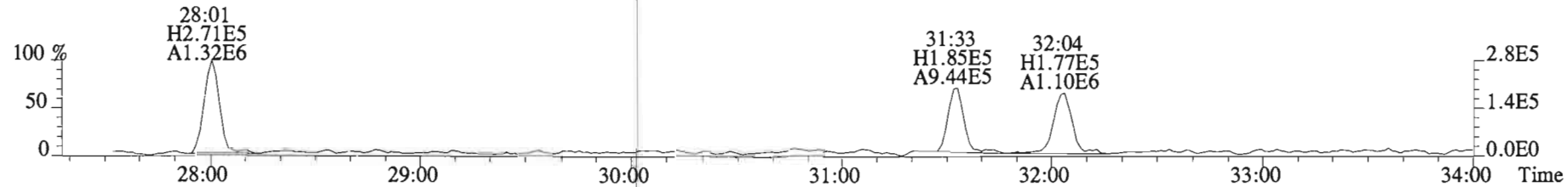
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10% 2136.0,0.00%,F,F)



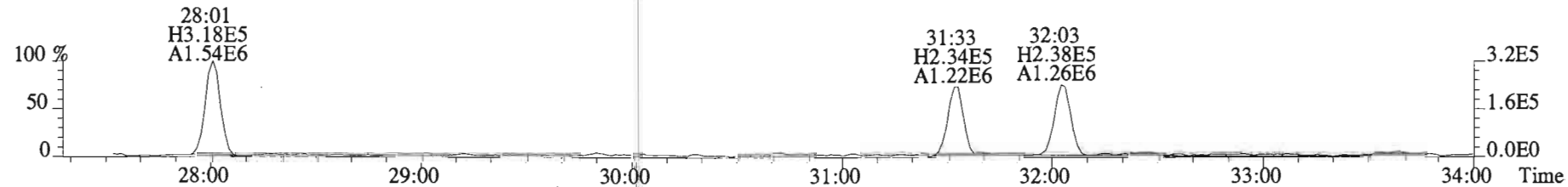
291.9194 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10% 2384.0,0.00%,F,F)



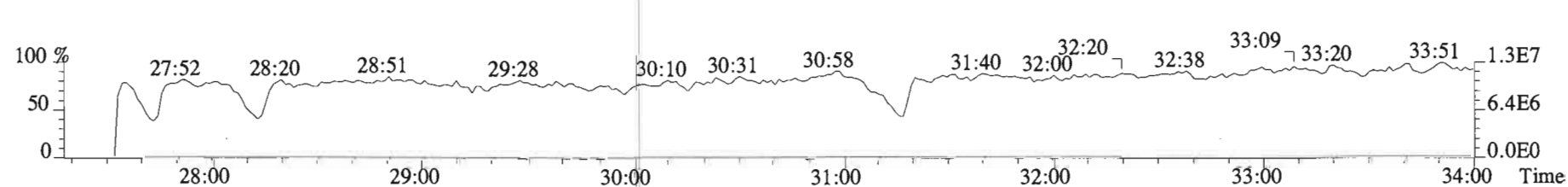
301.9626 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10% 14896.0,0.00%,F,F)



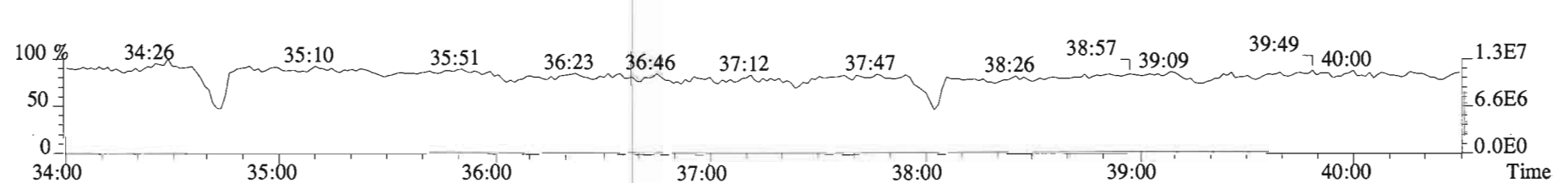
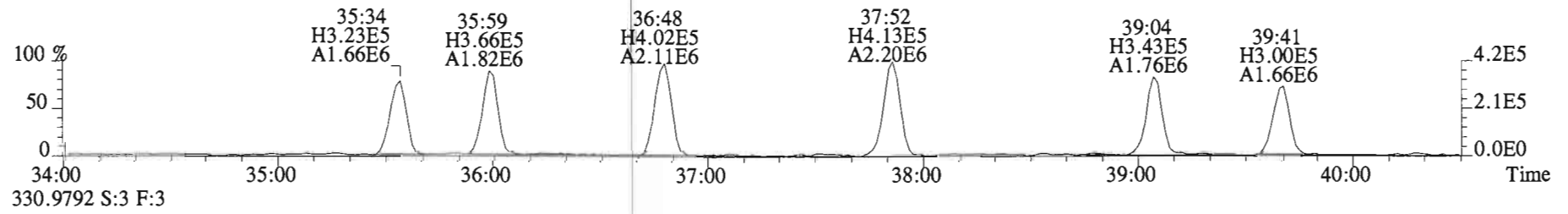
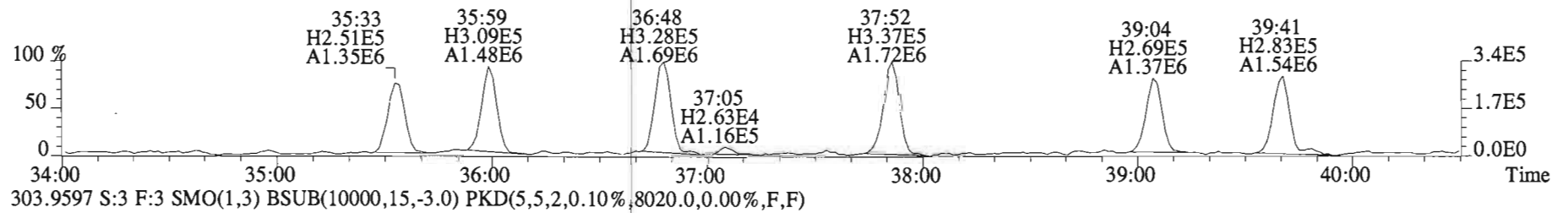
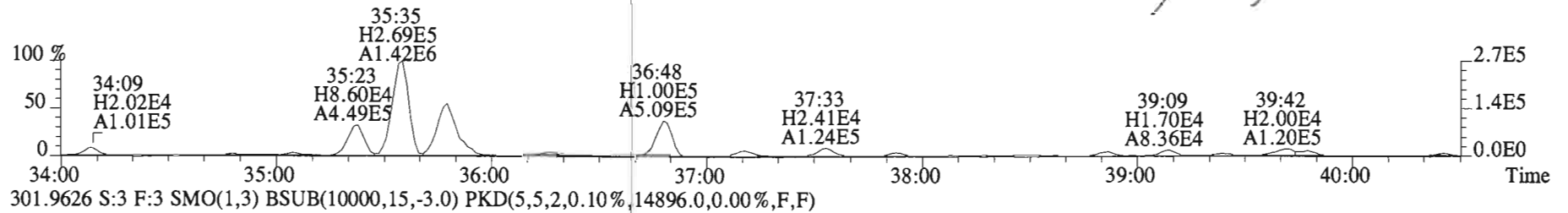
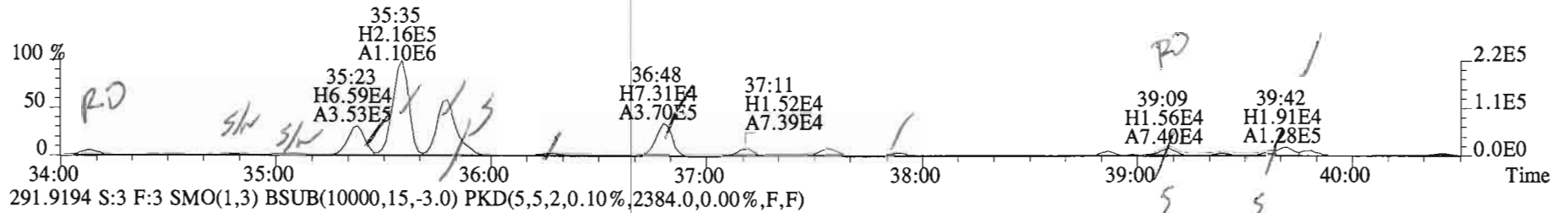
303.9597 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10% 8020.0,0.00%,F,F)



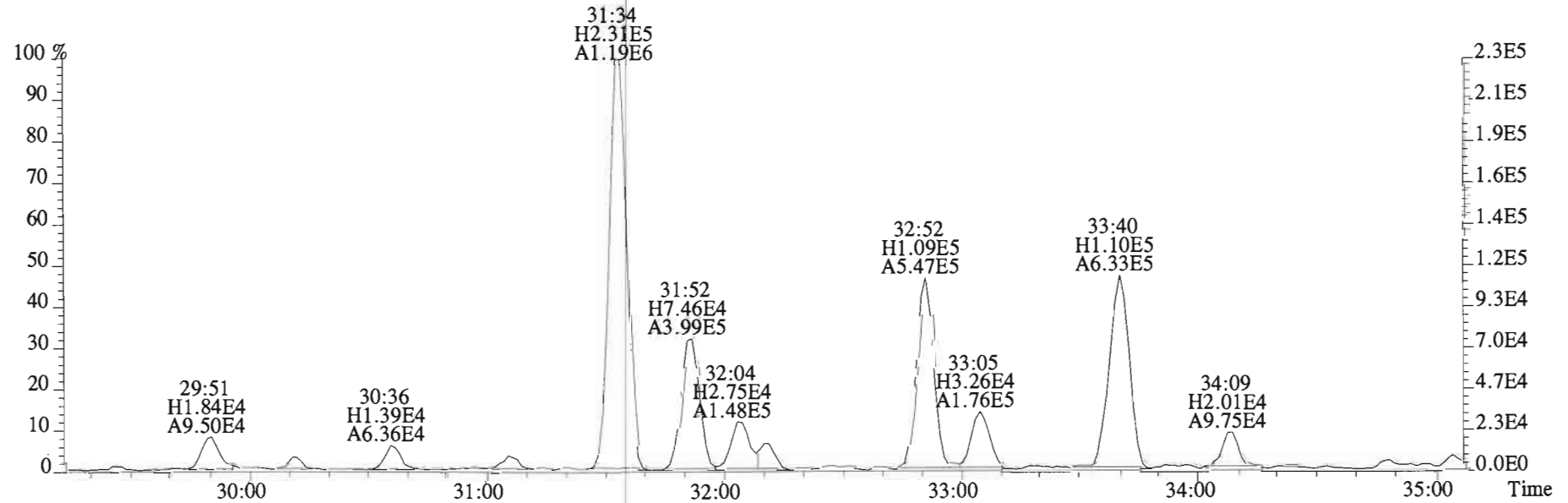
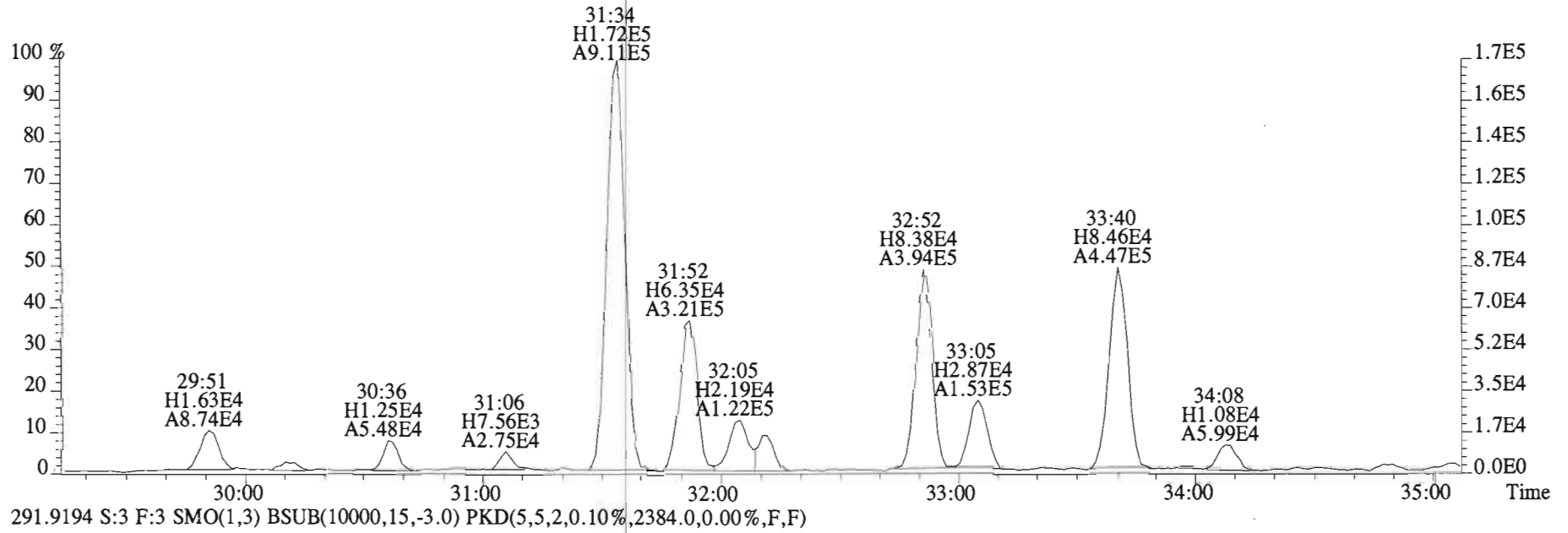
330.9792 S:3 F:3



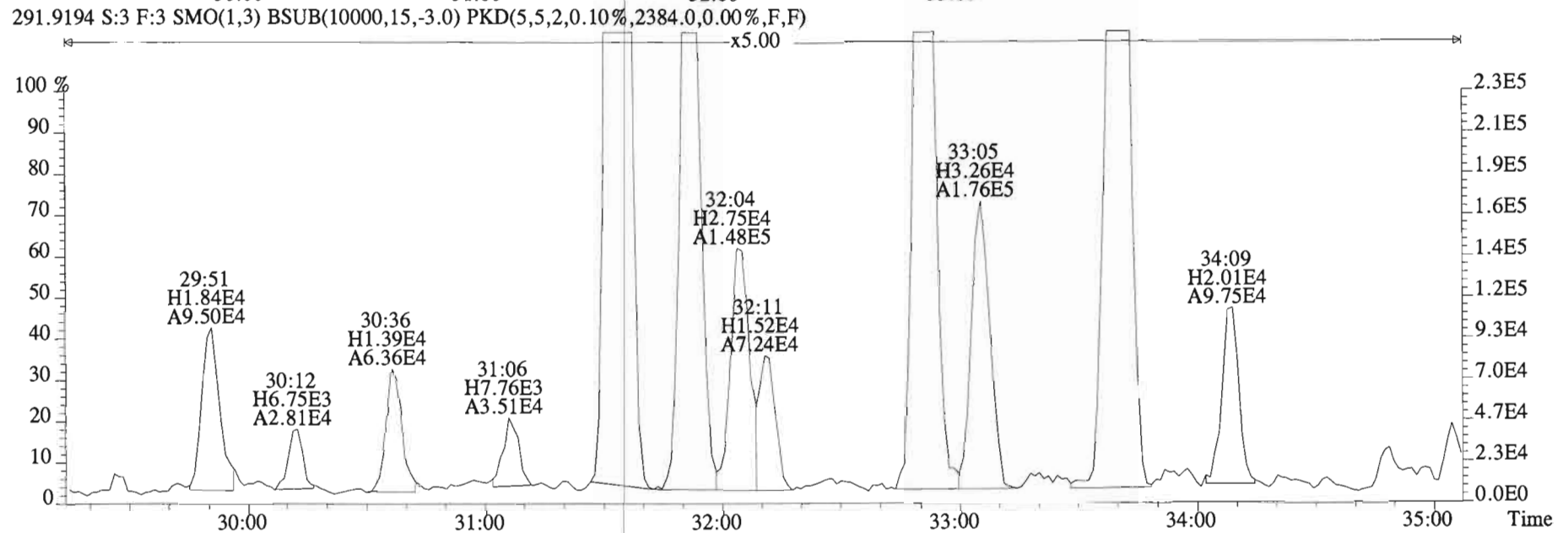
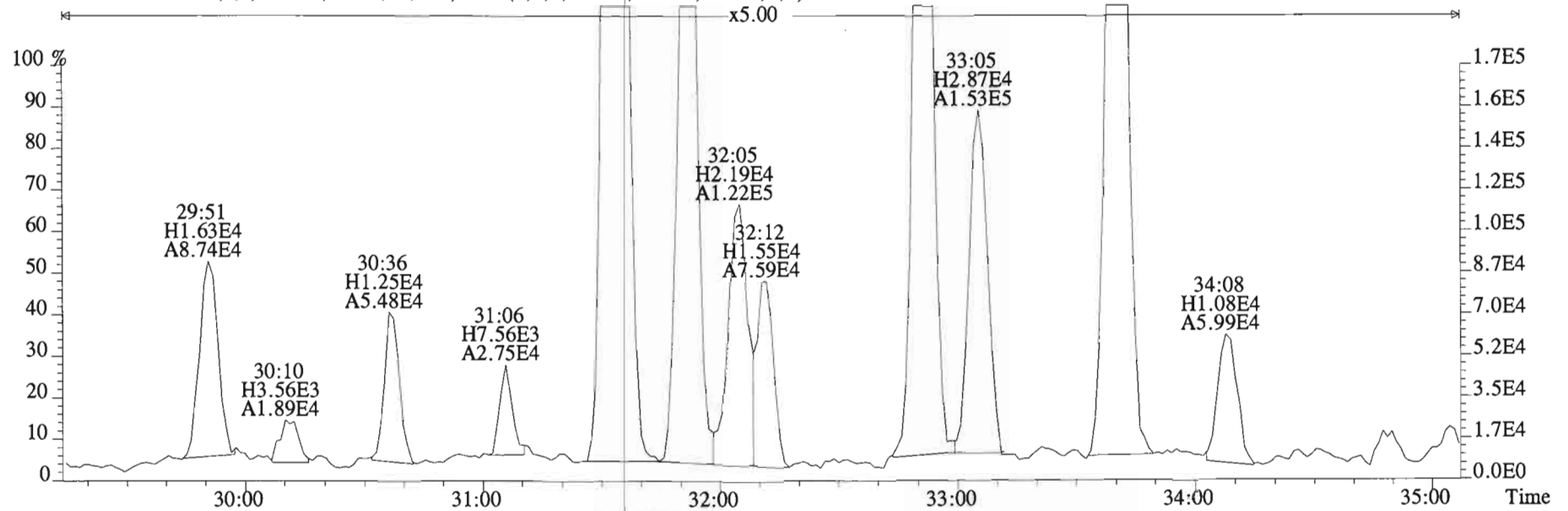
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
 289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2136.0,0.00%,F,F)



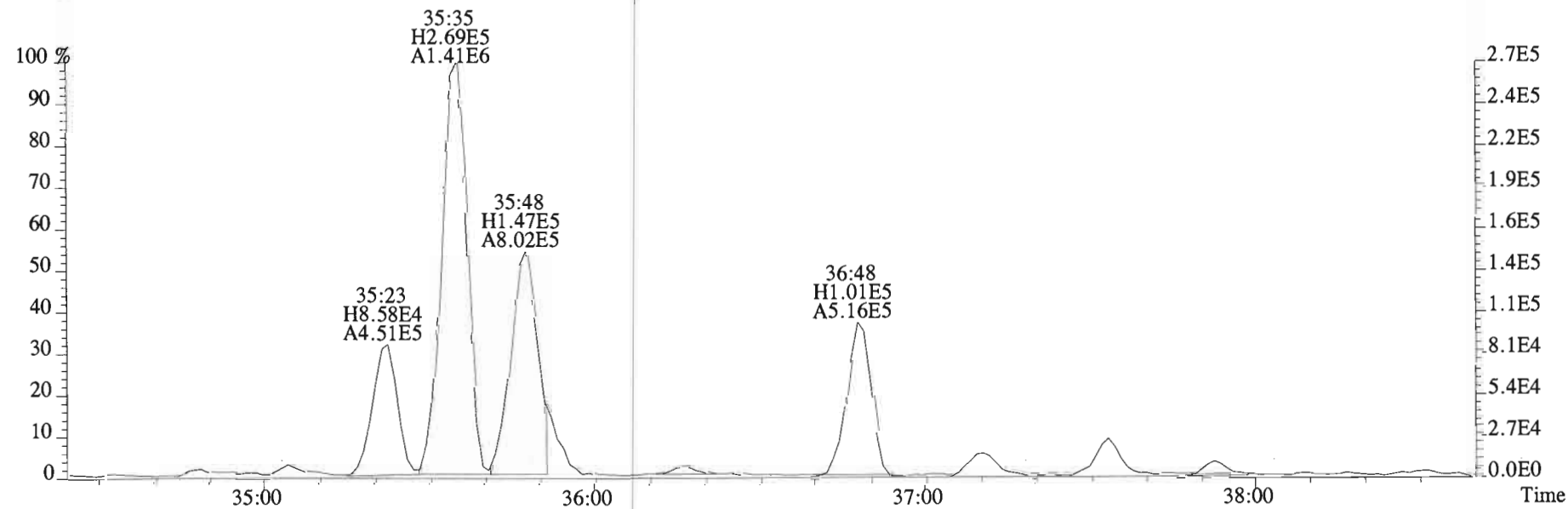
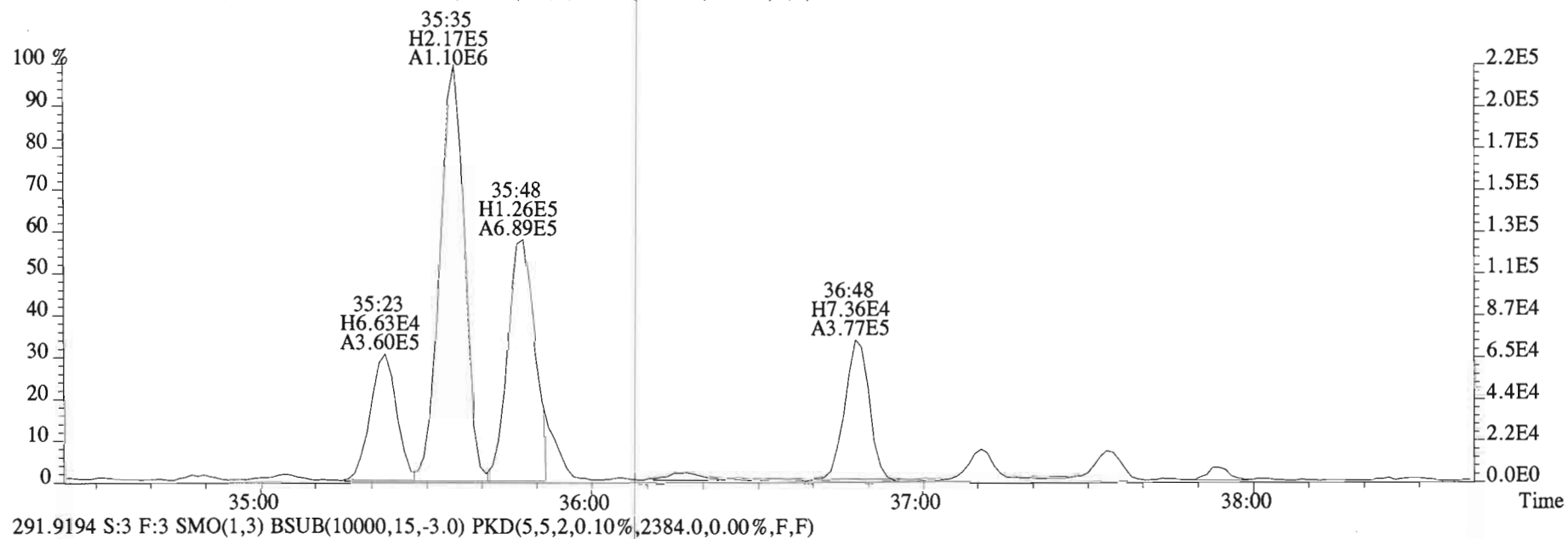
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
 289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2136.0,0.00%,F,F)



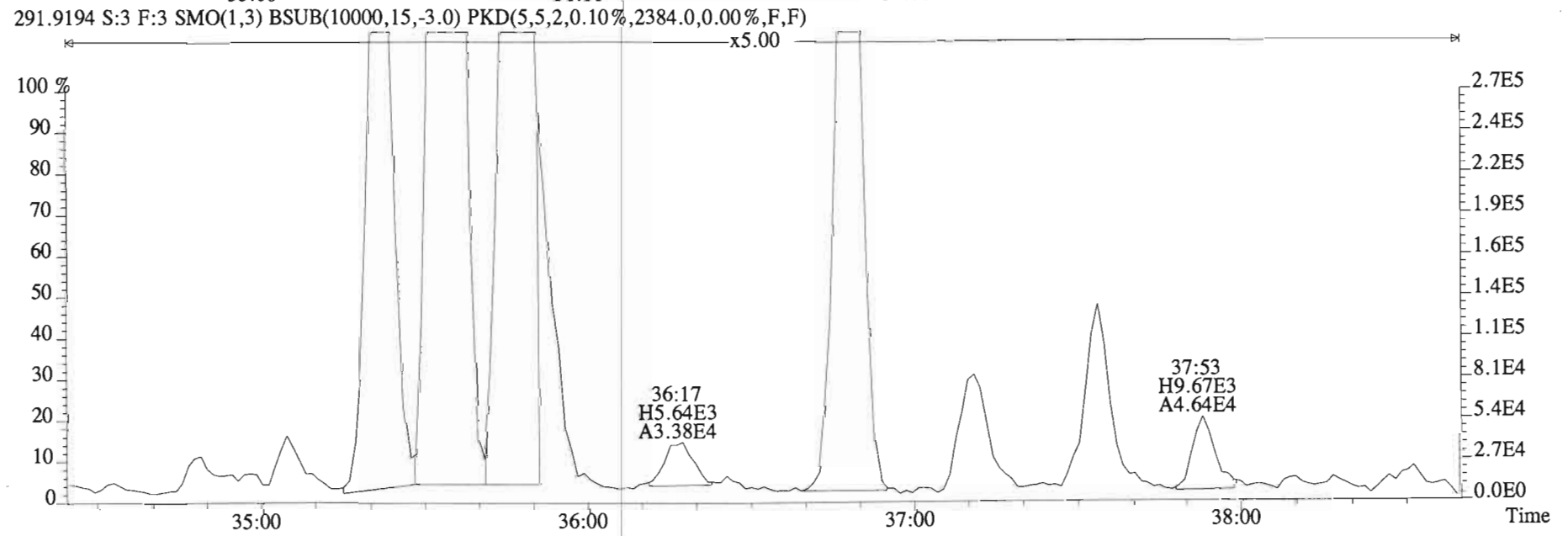
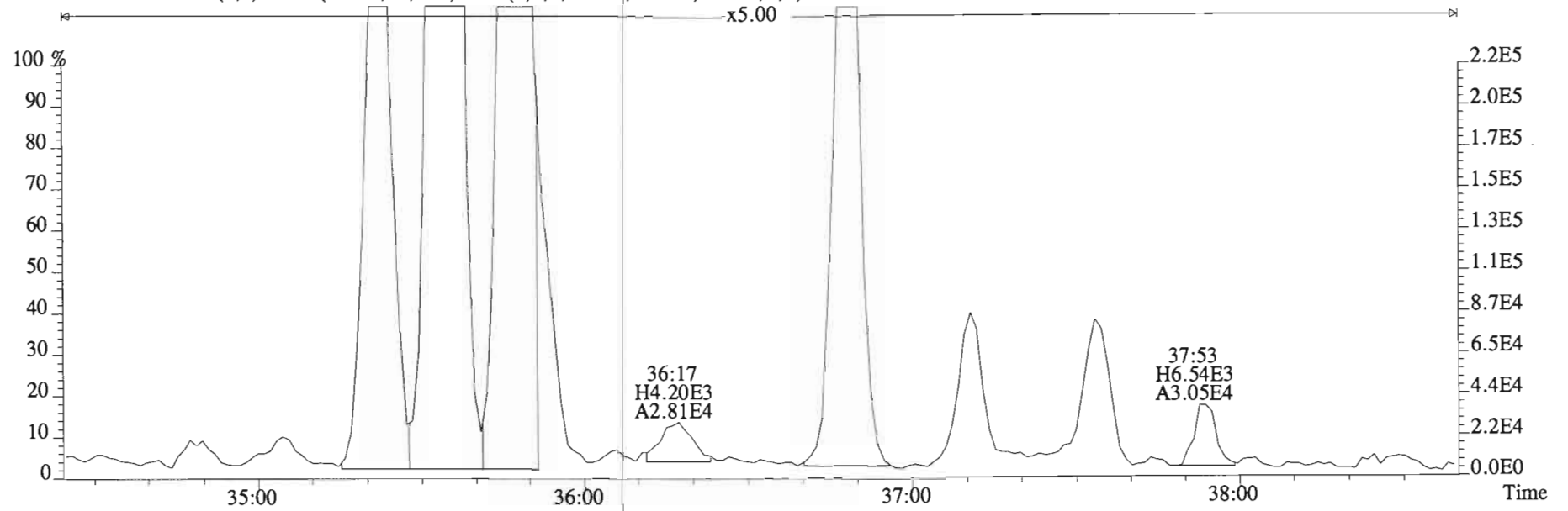
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
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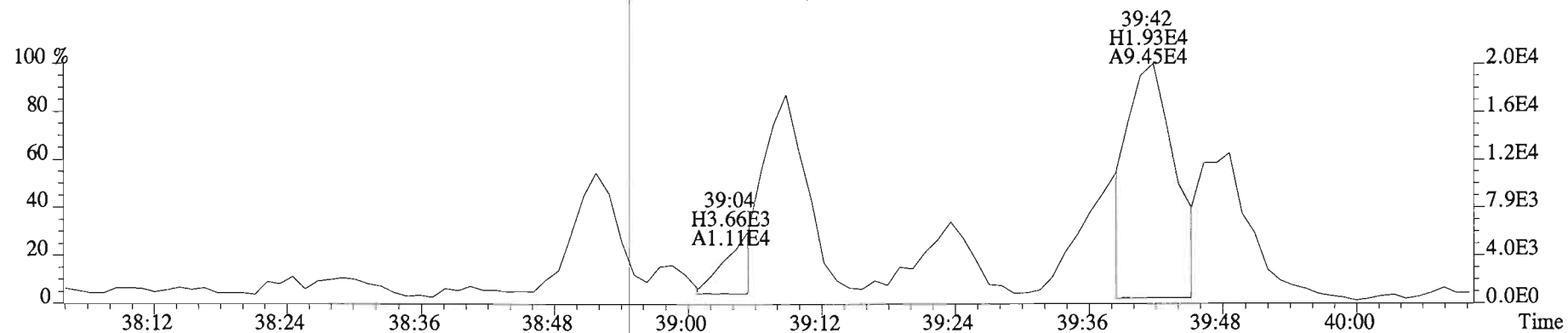
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Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2136.0,0.00%,F,F)



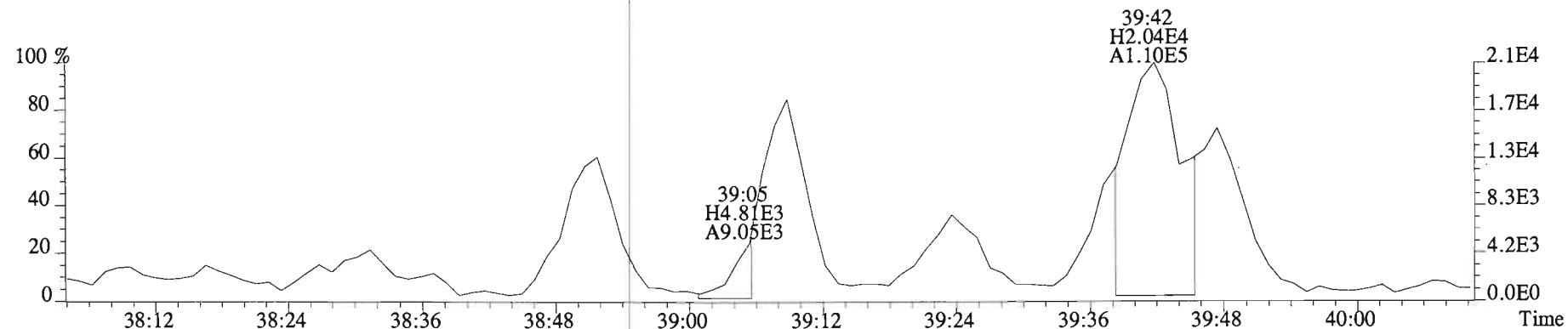
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289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2136.0,0.00%,F,F)



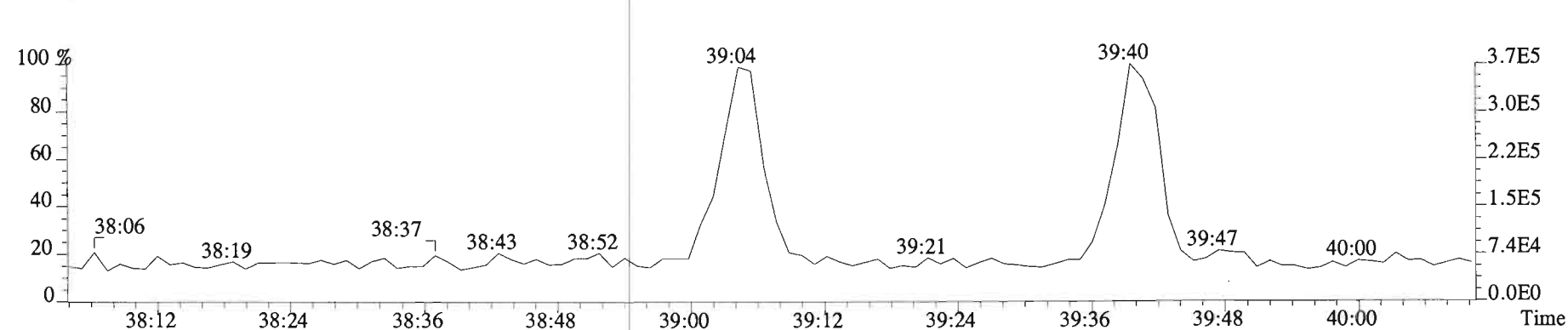
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 289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2136.0,0.00%,F,F)



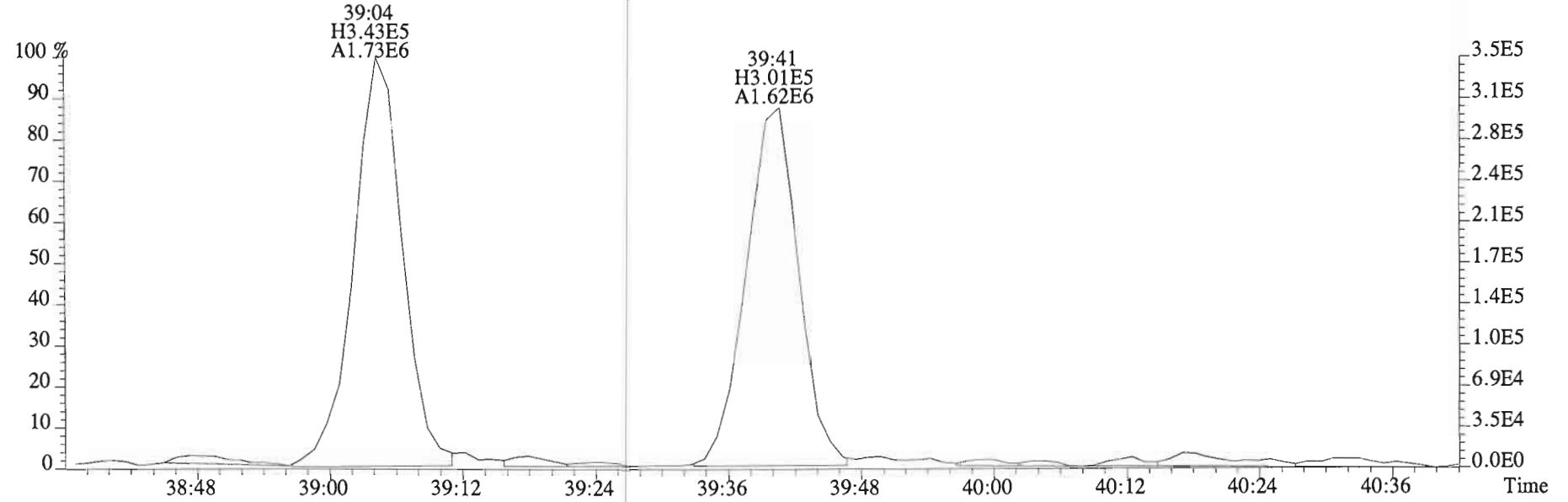
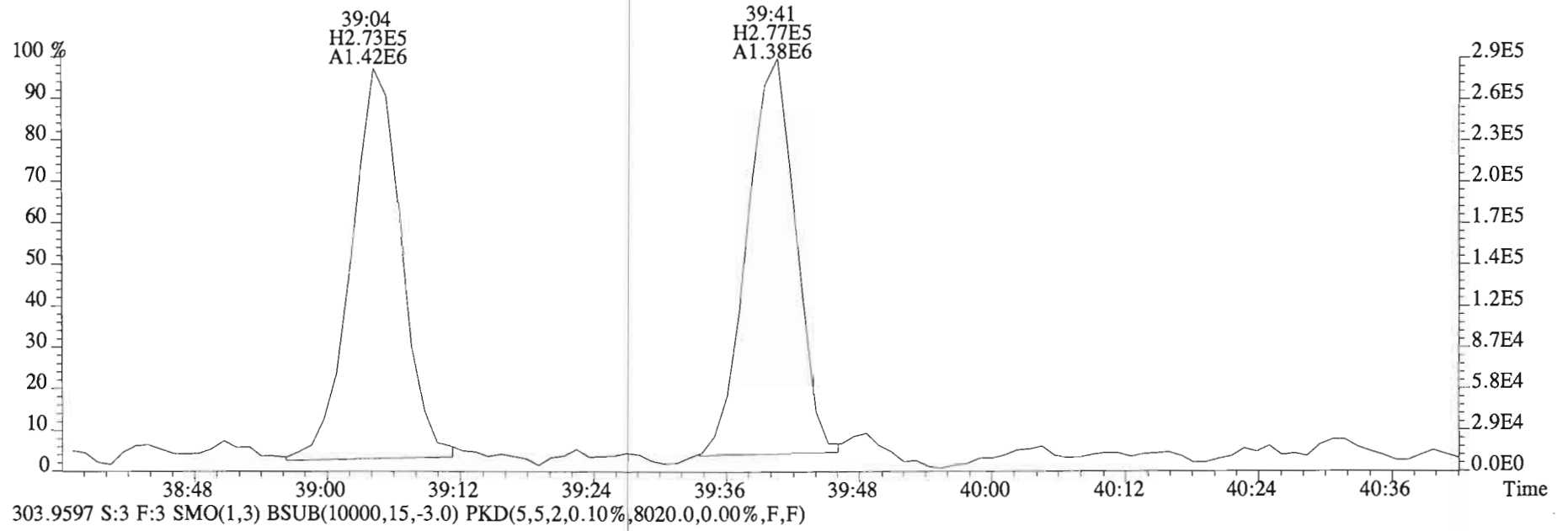
291.9194 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2384.0,0.00%,F,F)



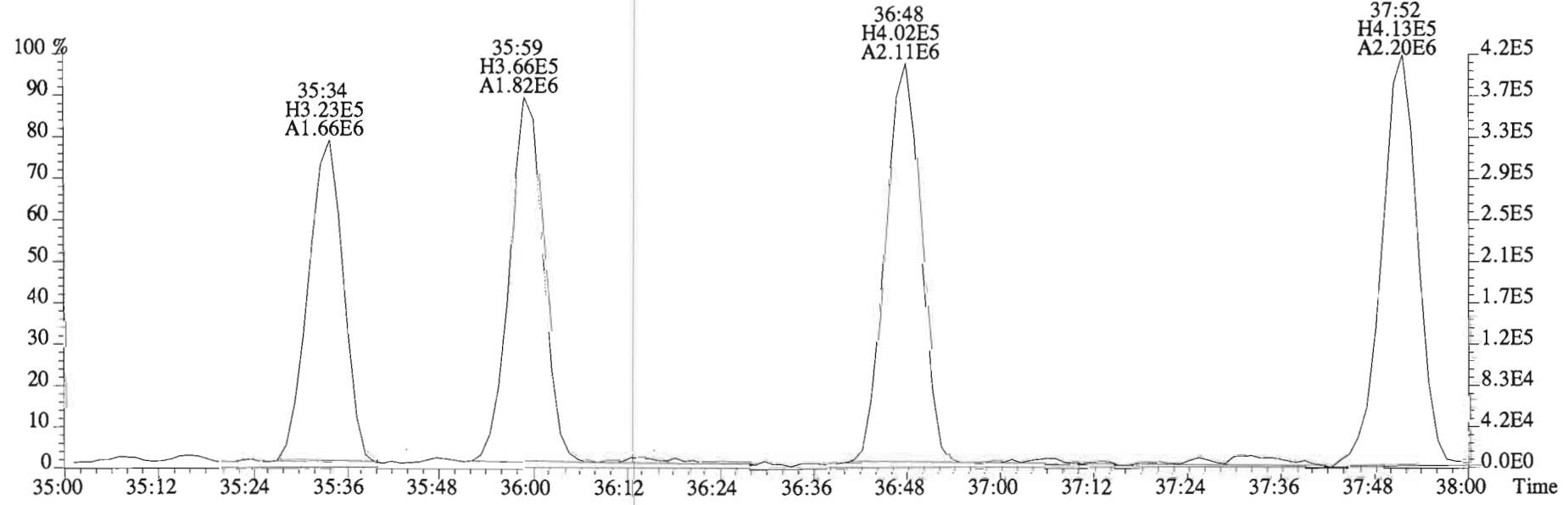
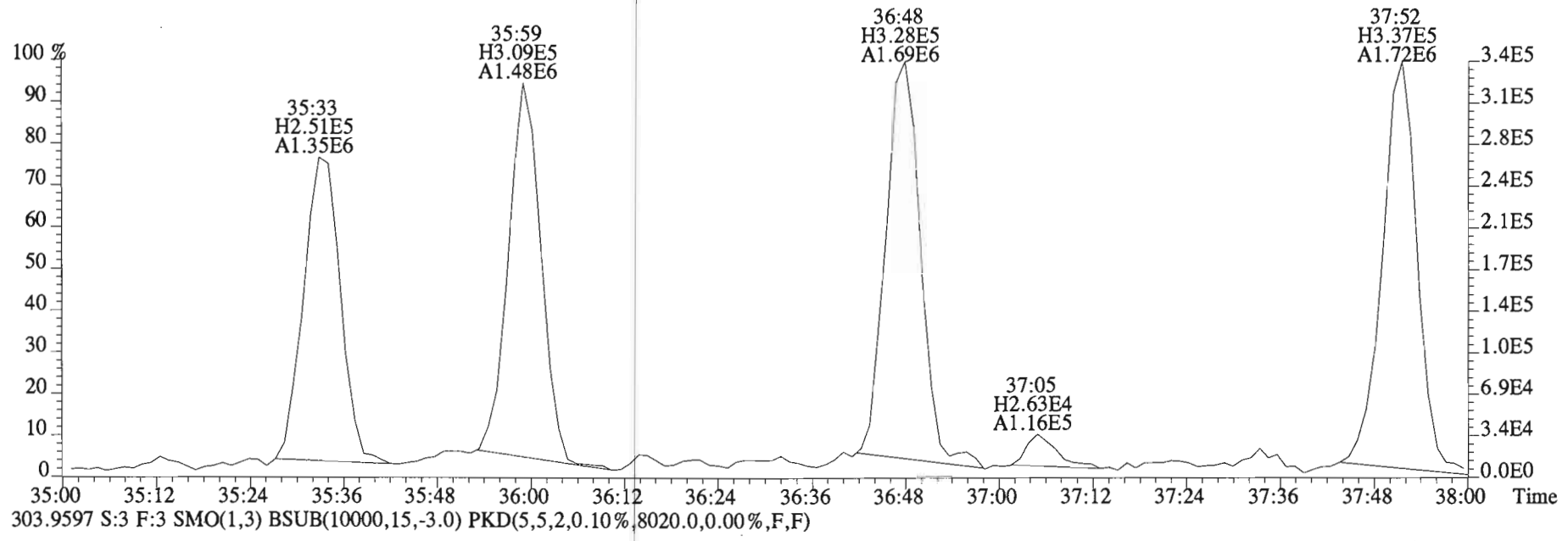
301.9626 S:3 F:3



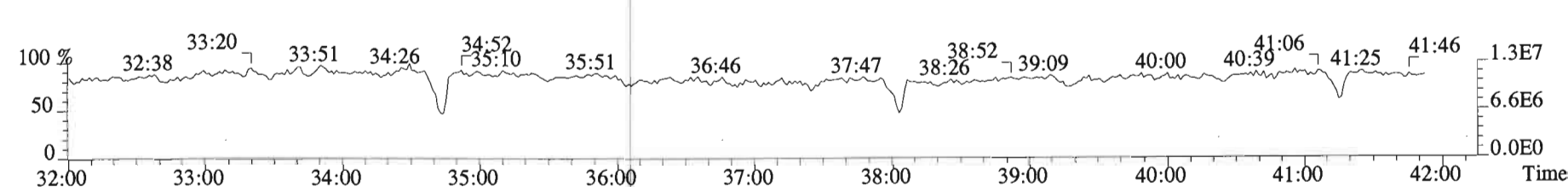
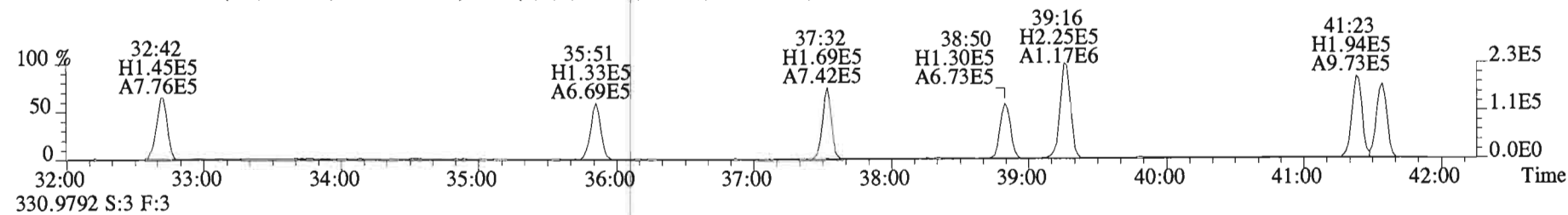
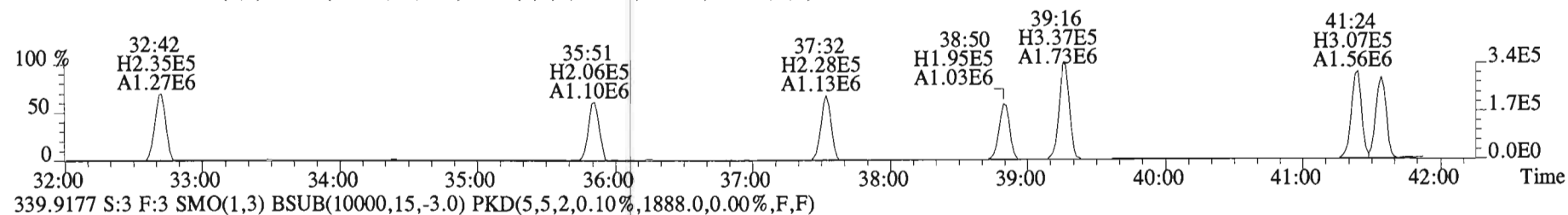
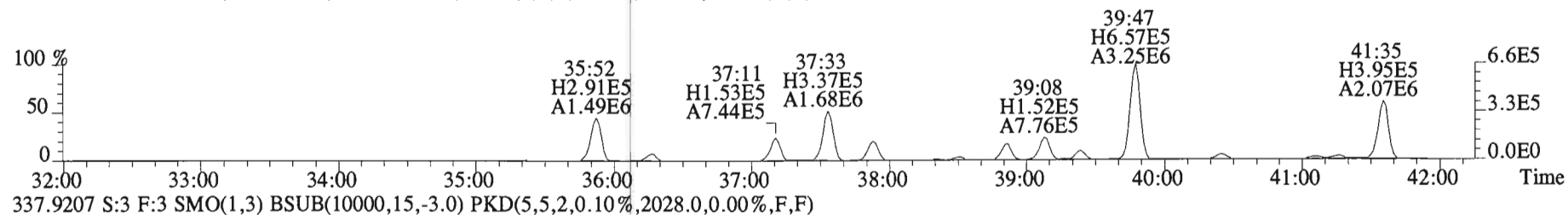
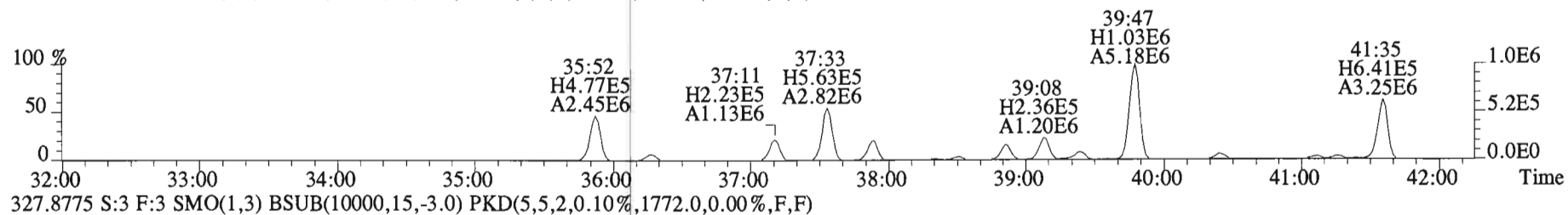
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
301.9626 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,14896.0,0.00%,F,F)



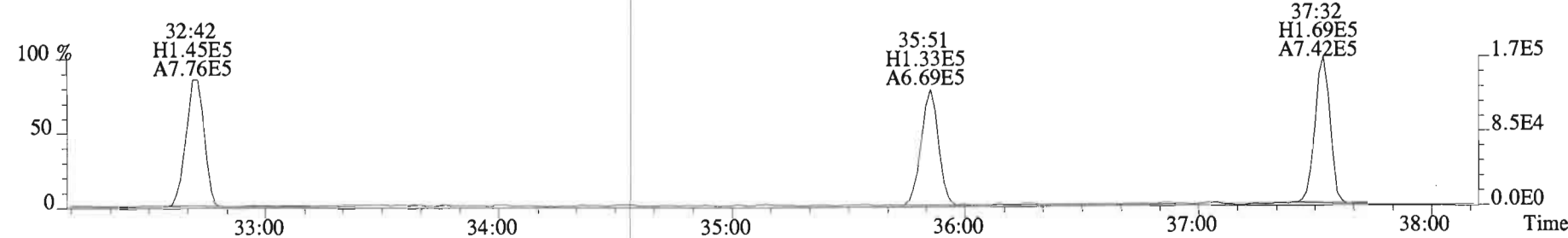
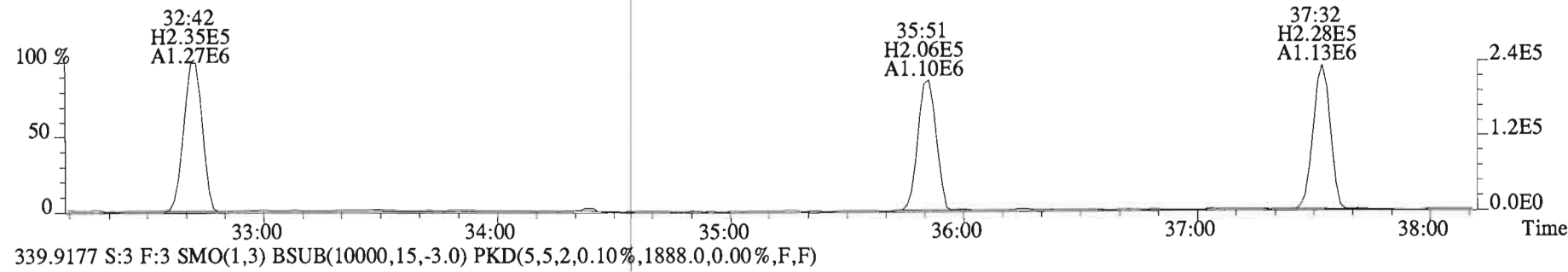
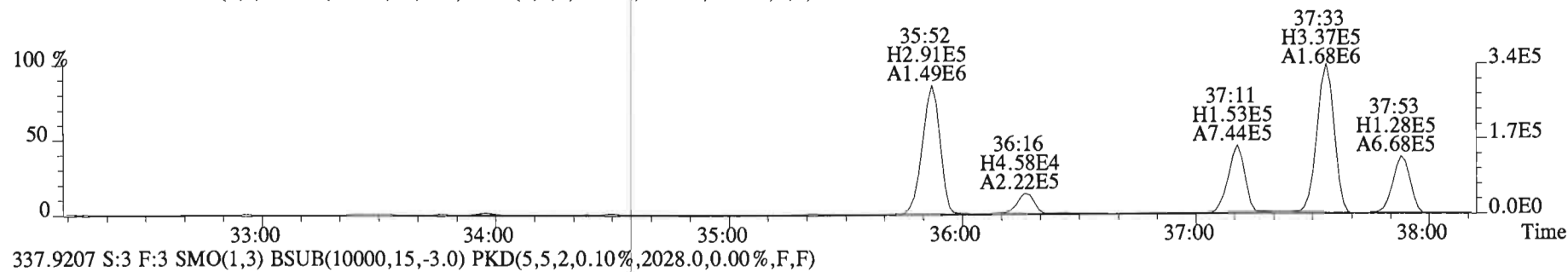
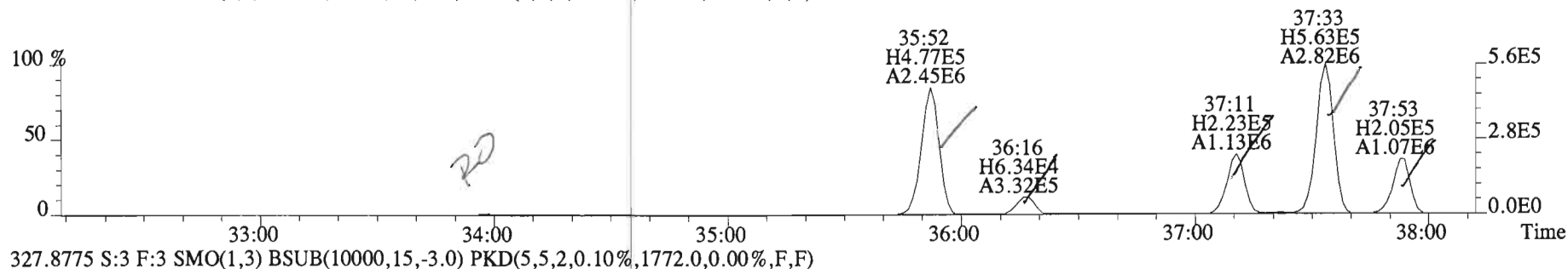
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
301.9626 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,14896.0,0.00%,F,F)



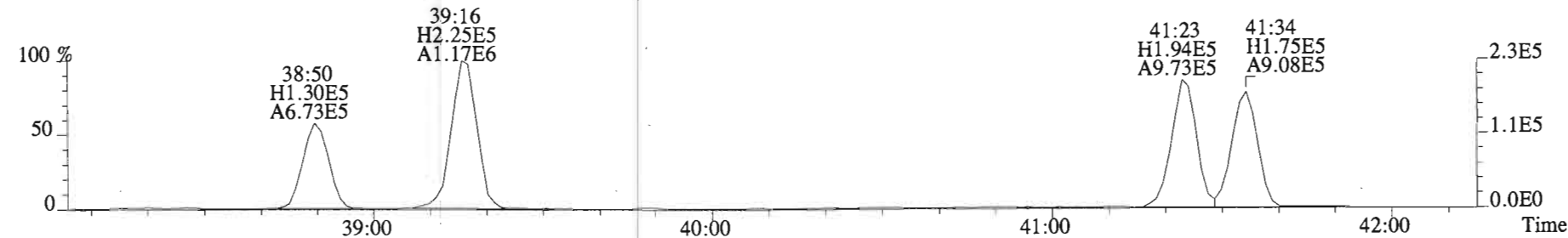
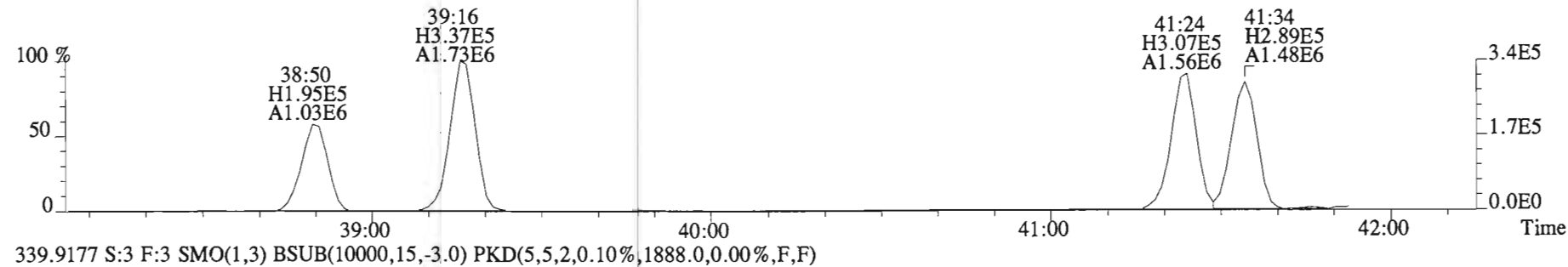
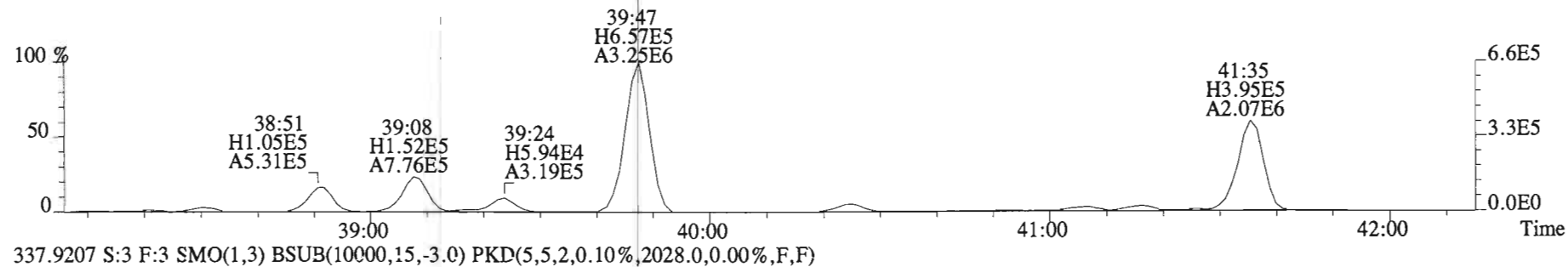
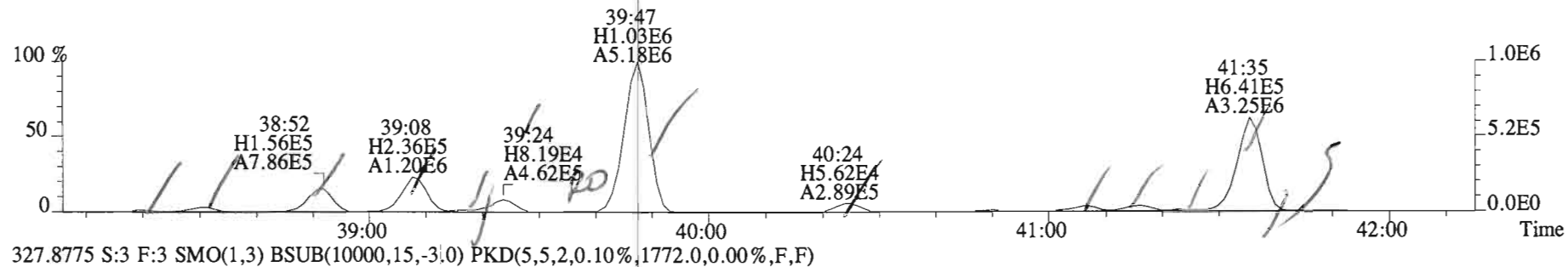
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
 325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2024.0,0.00%,F,F)



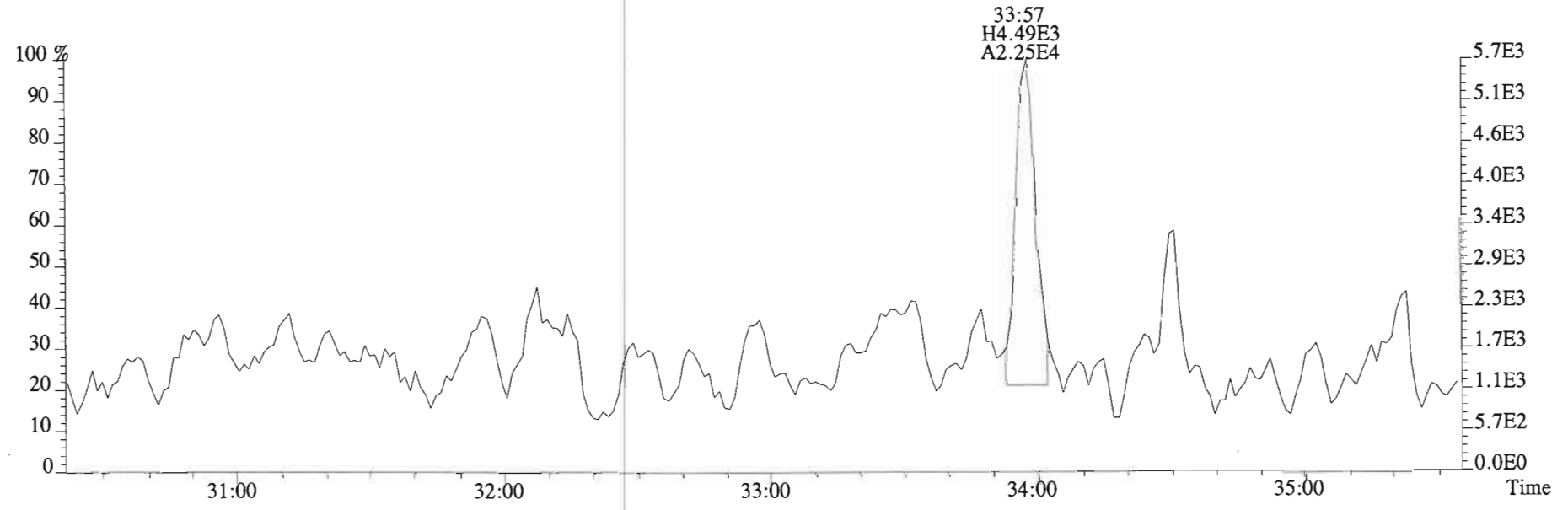
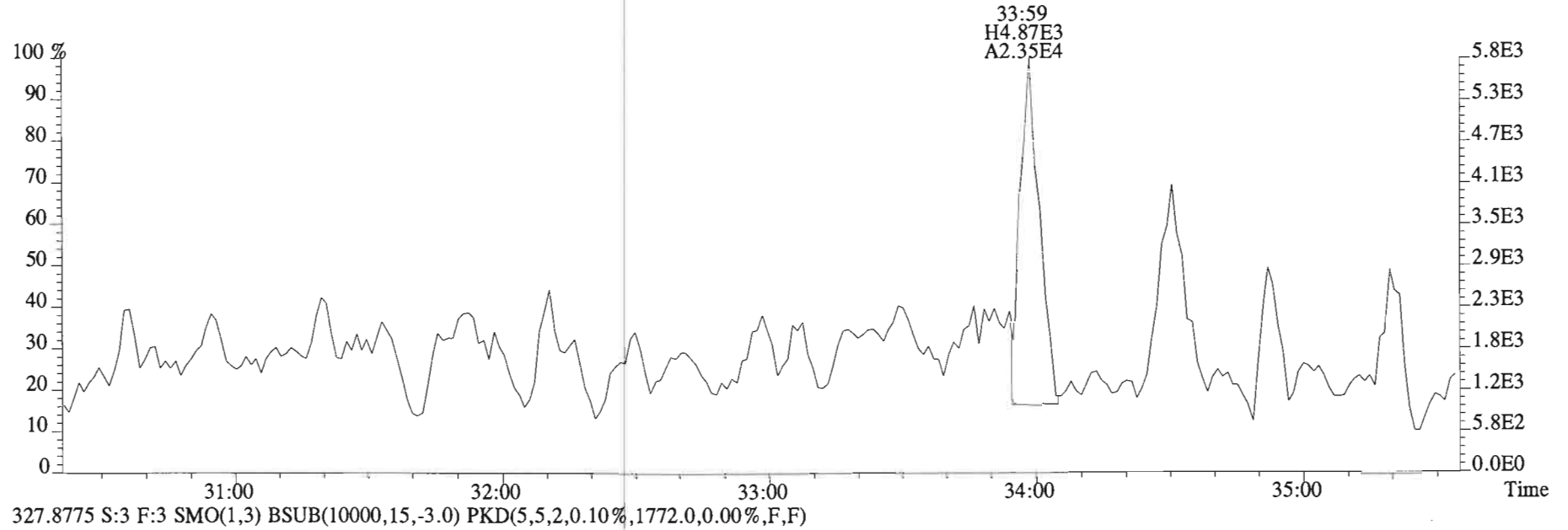
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2024.0,0.00%,F,F)



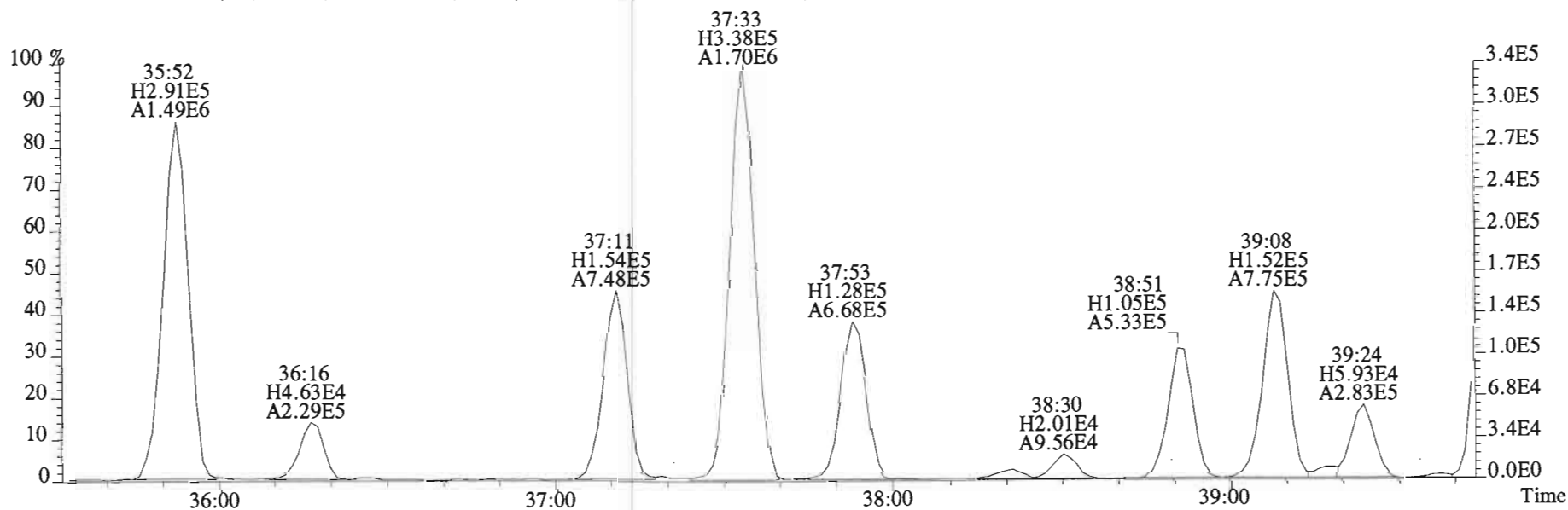
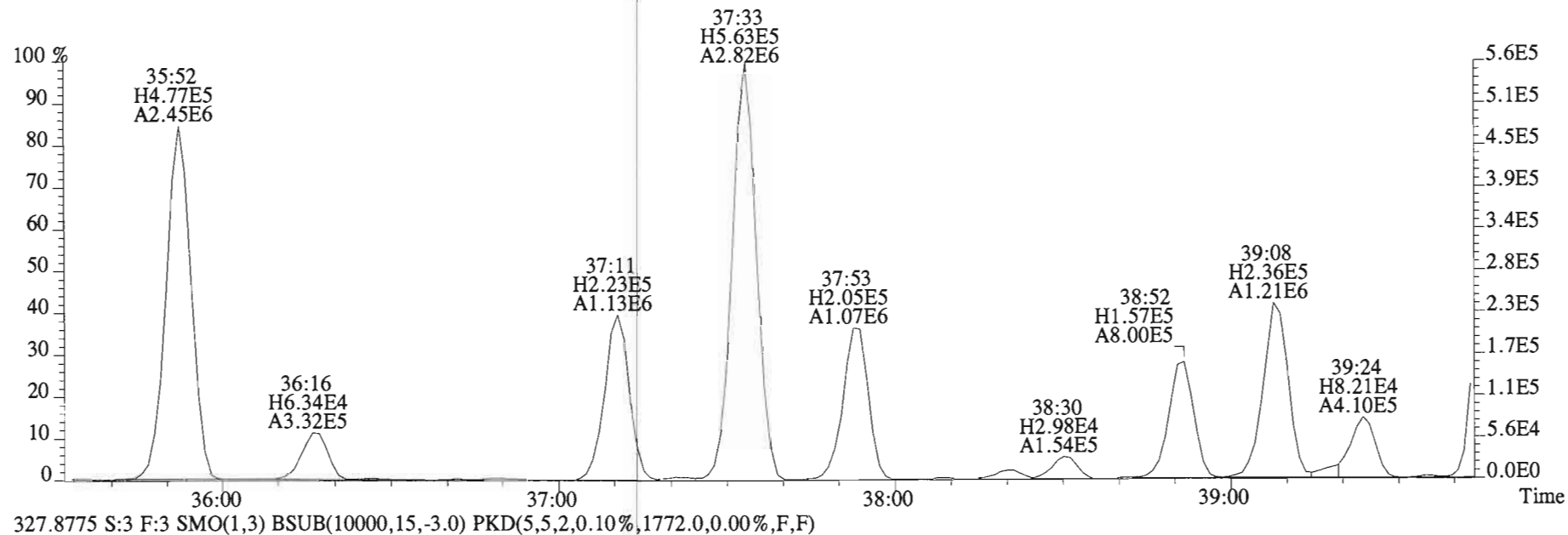
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
 325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2024.0,0.00%,F,F)



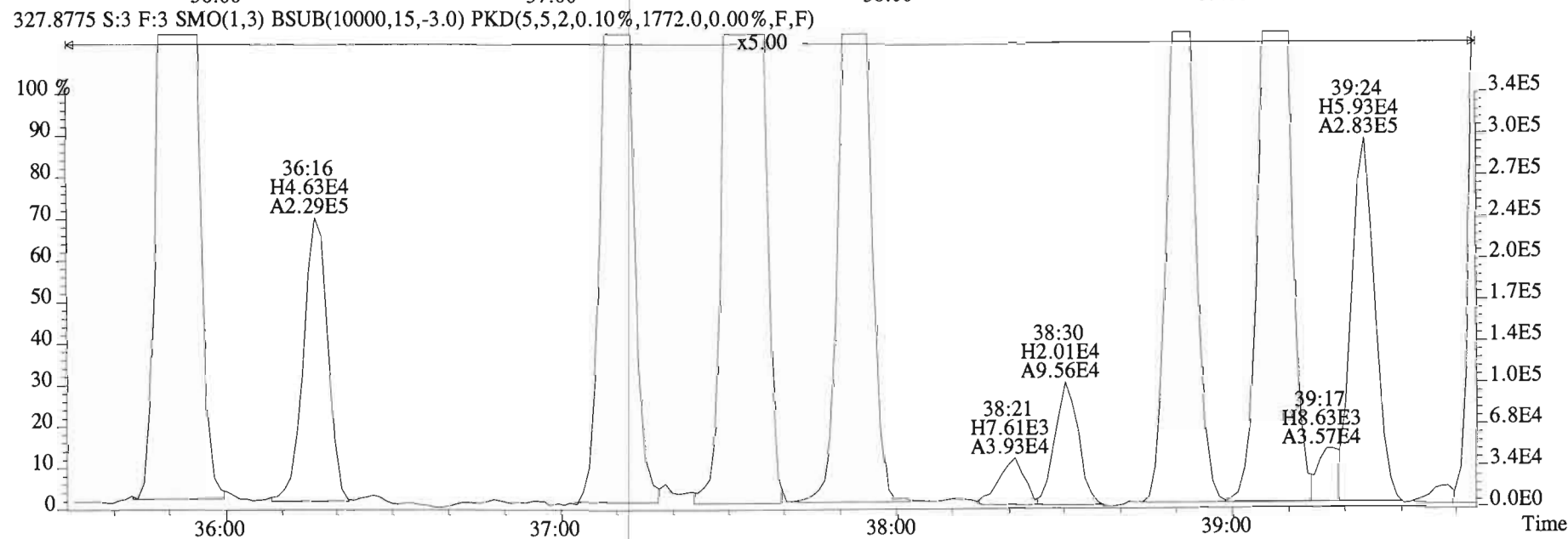
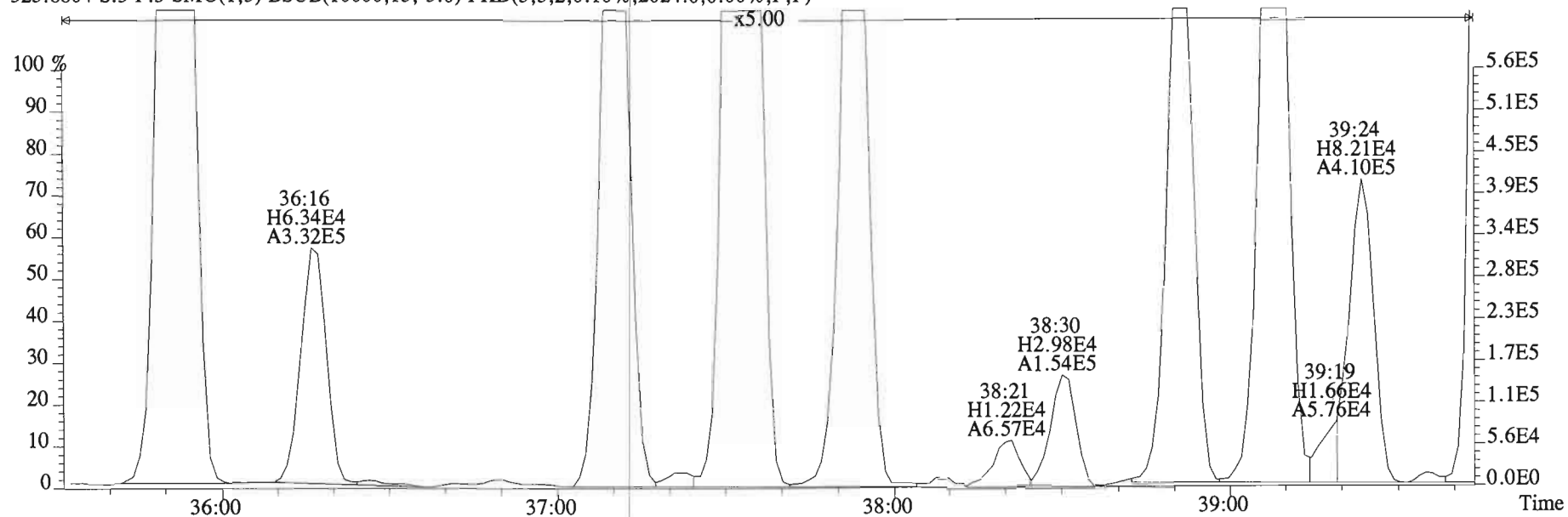
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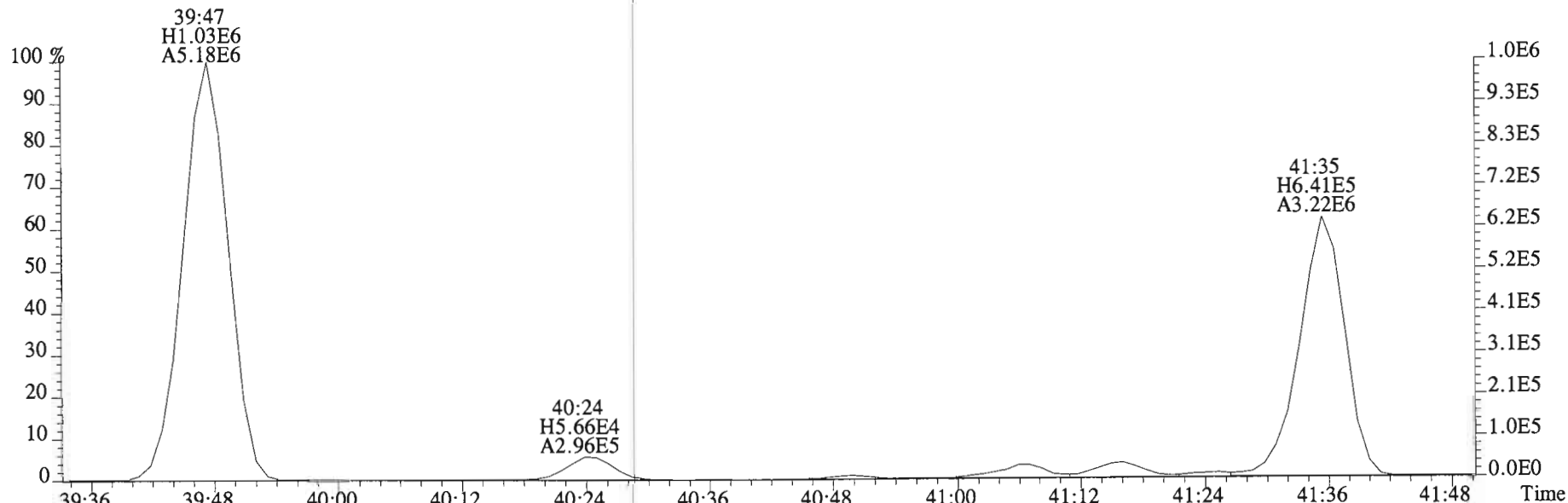
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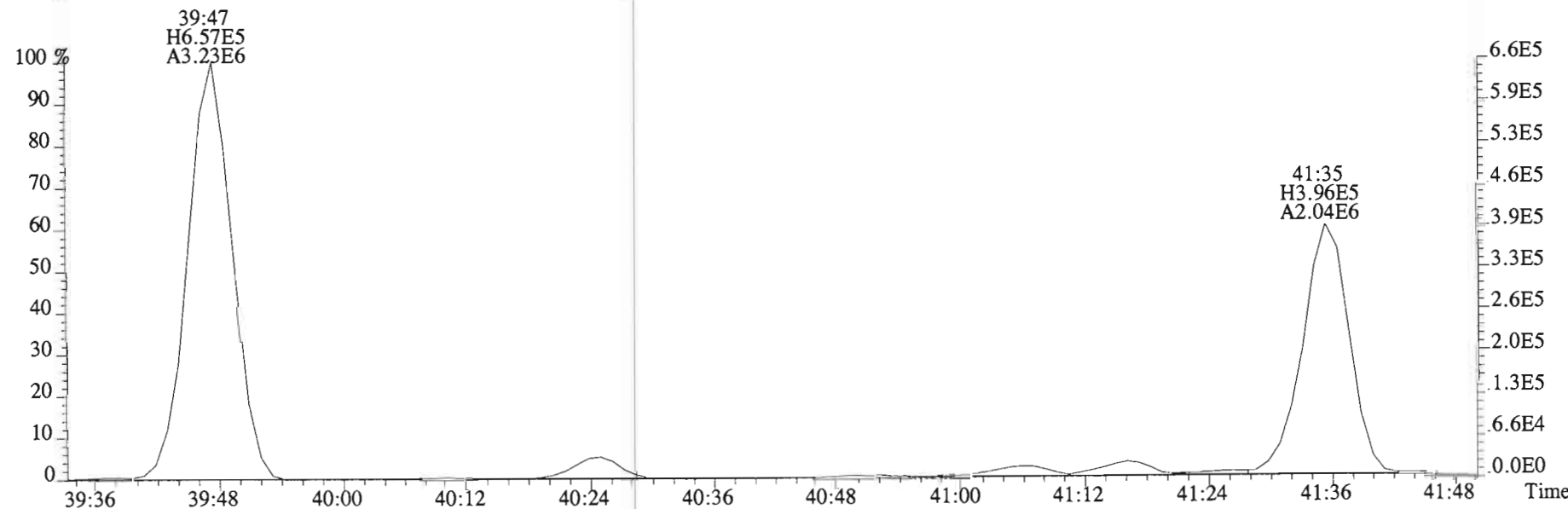
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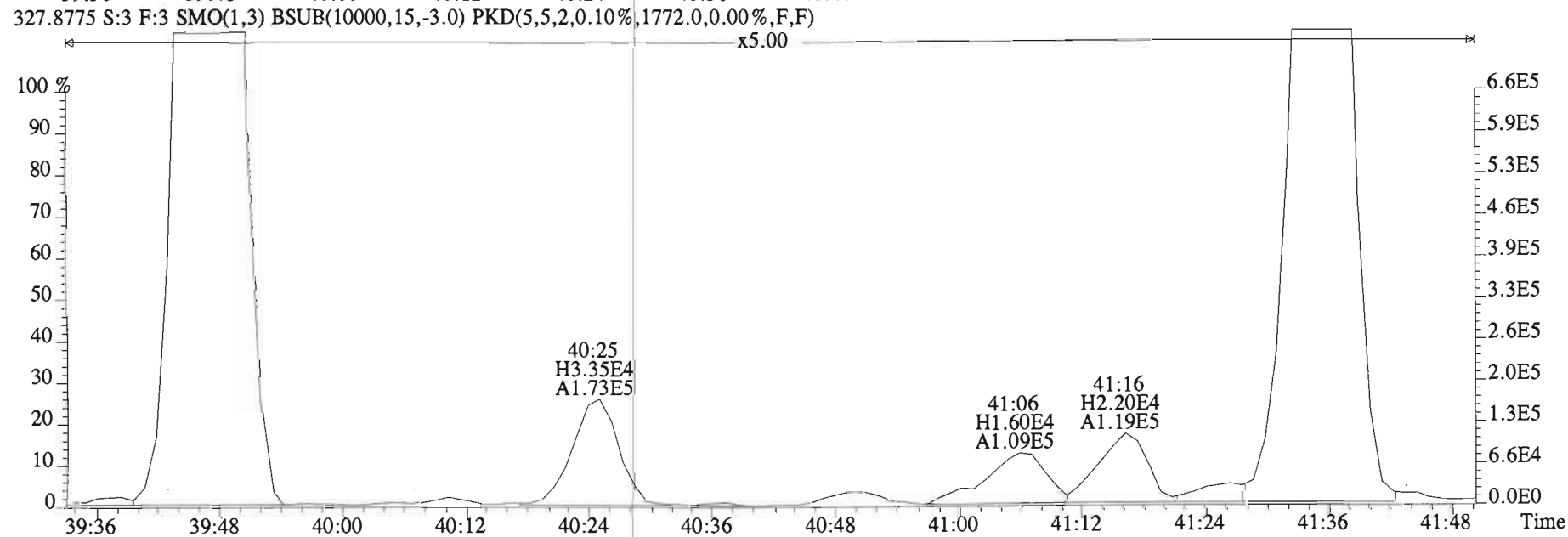
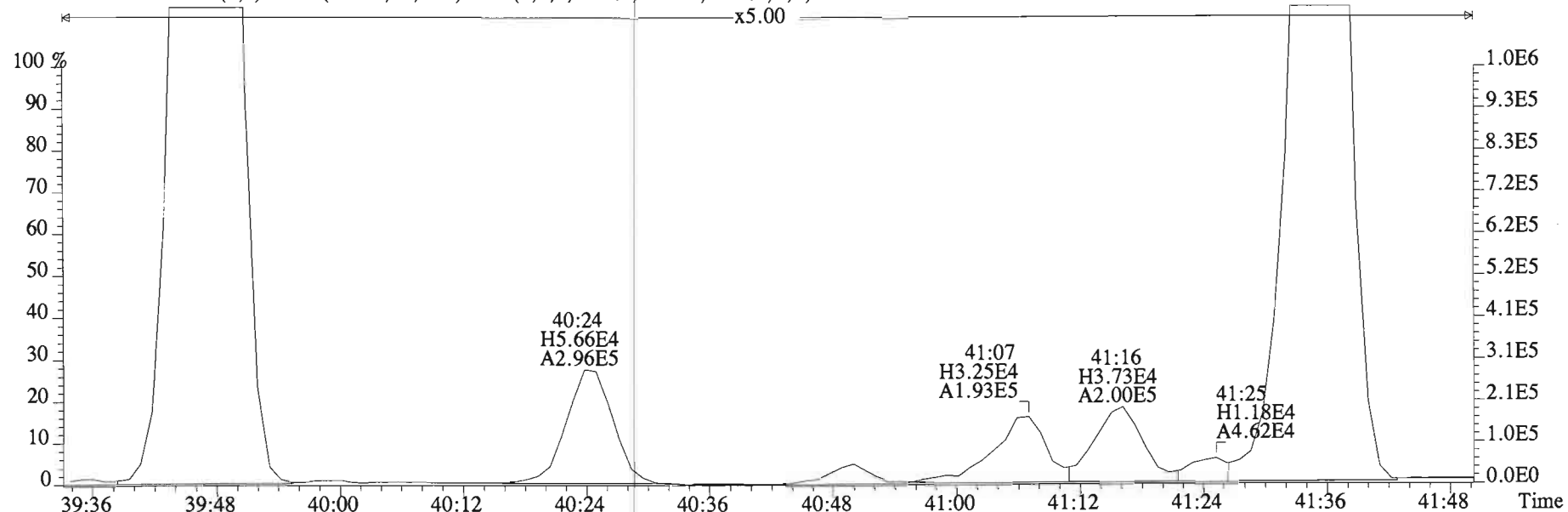
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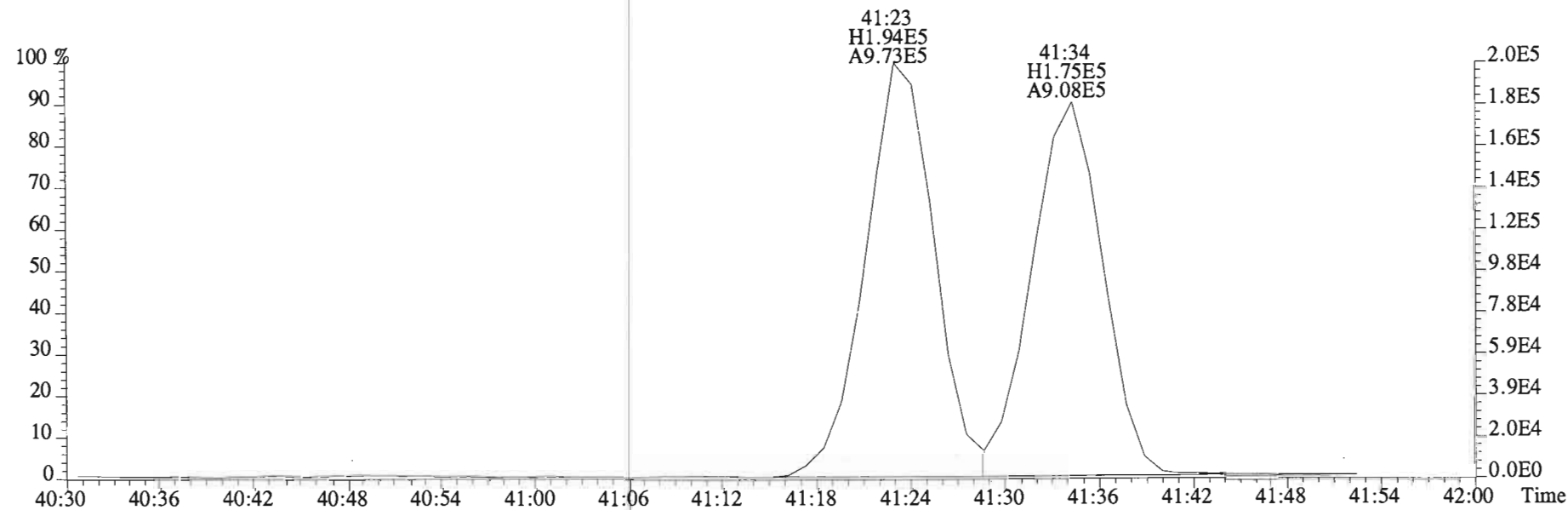
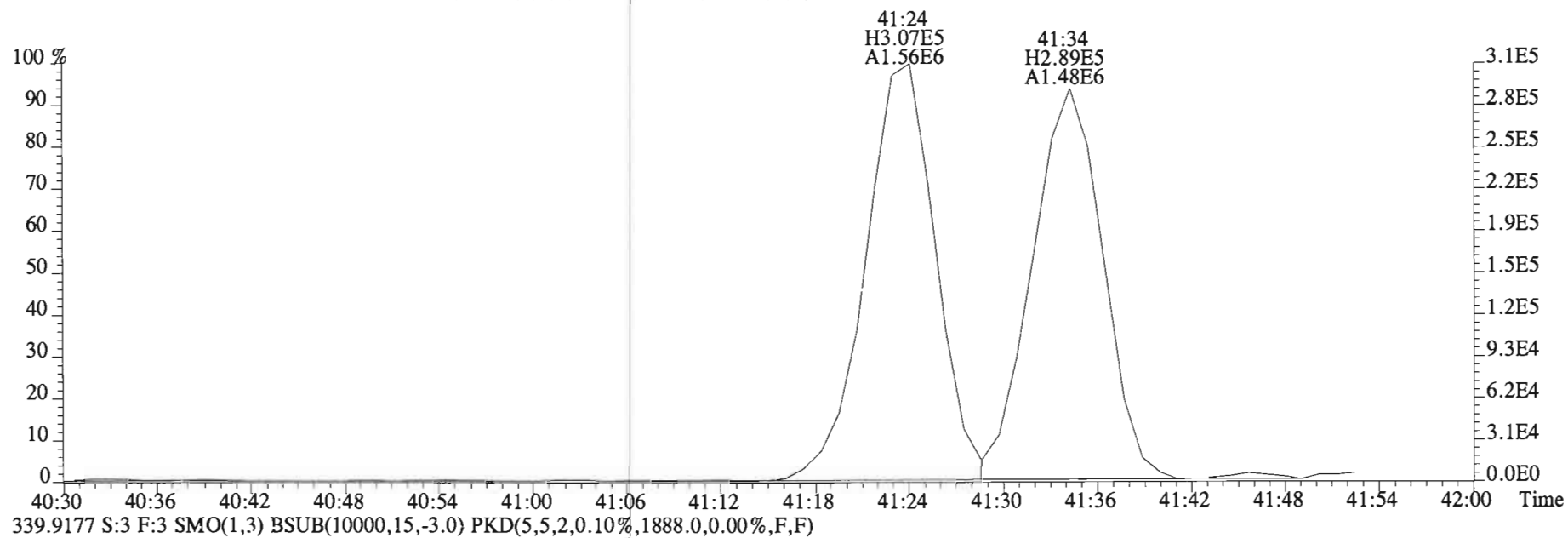
327.8775 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1772.0,0.00%,F,F)



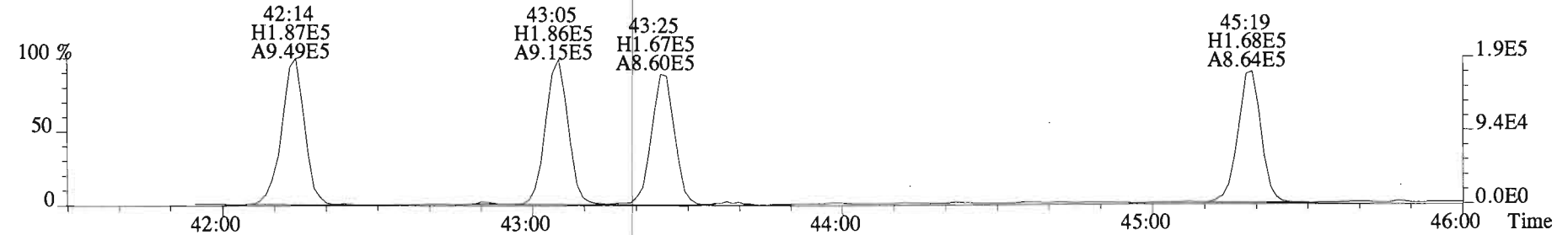
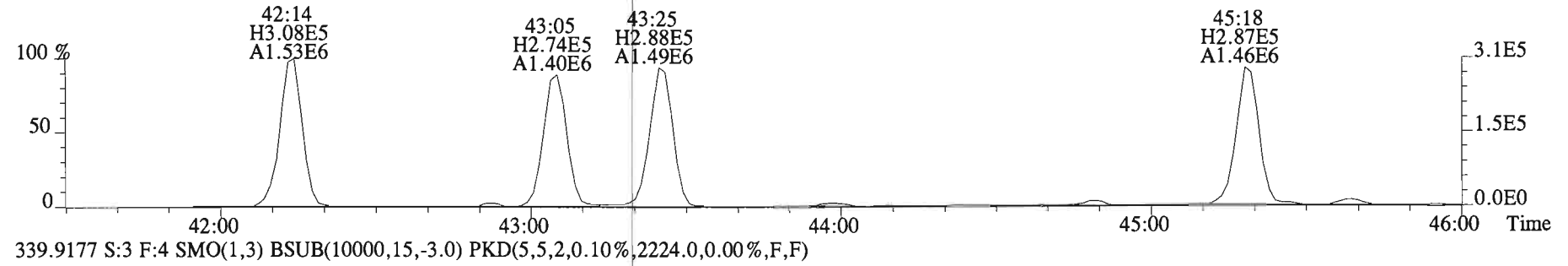
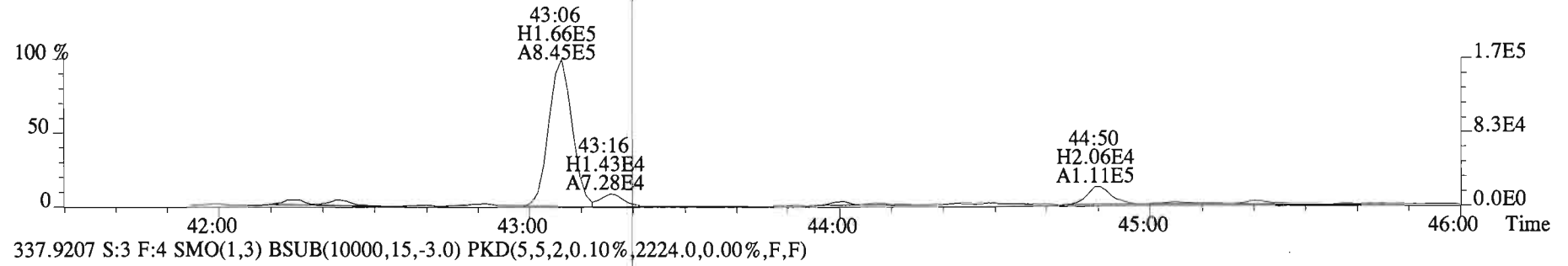
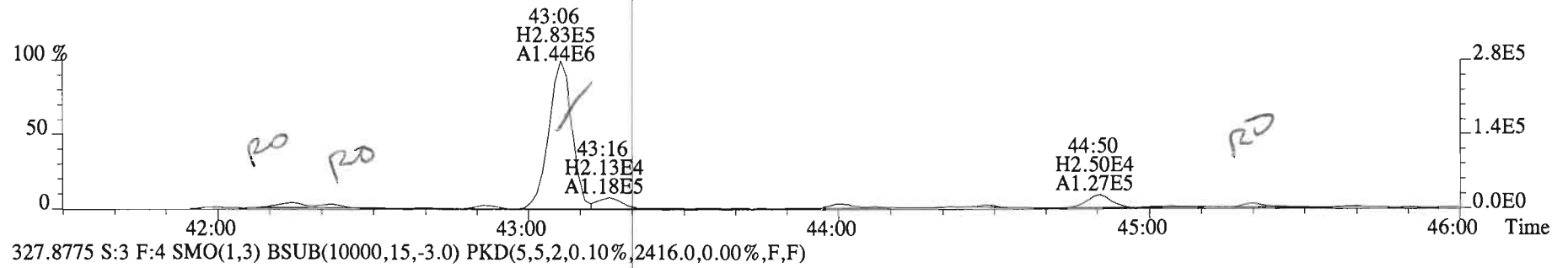
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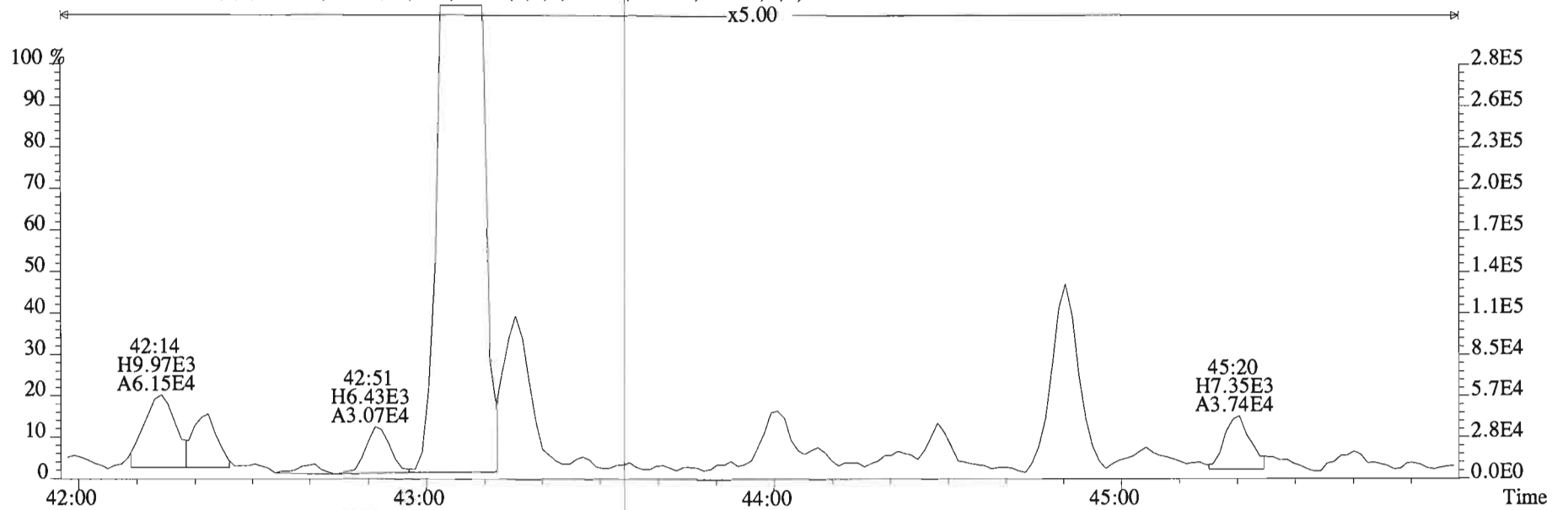
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337.9207 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2028.0,0.00%,F,F)



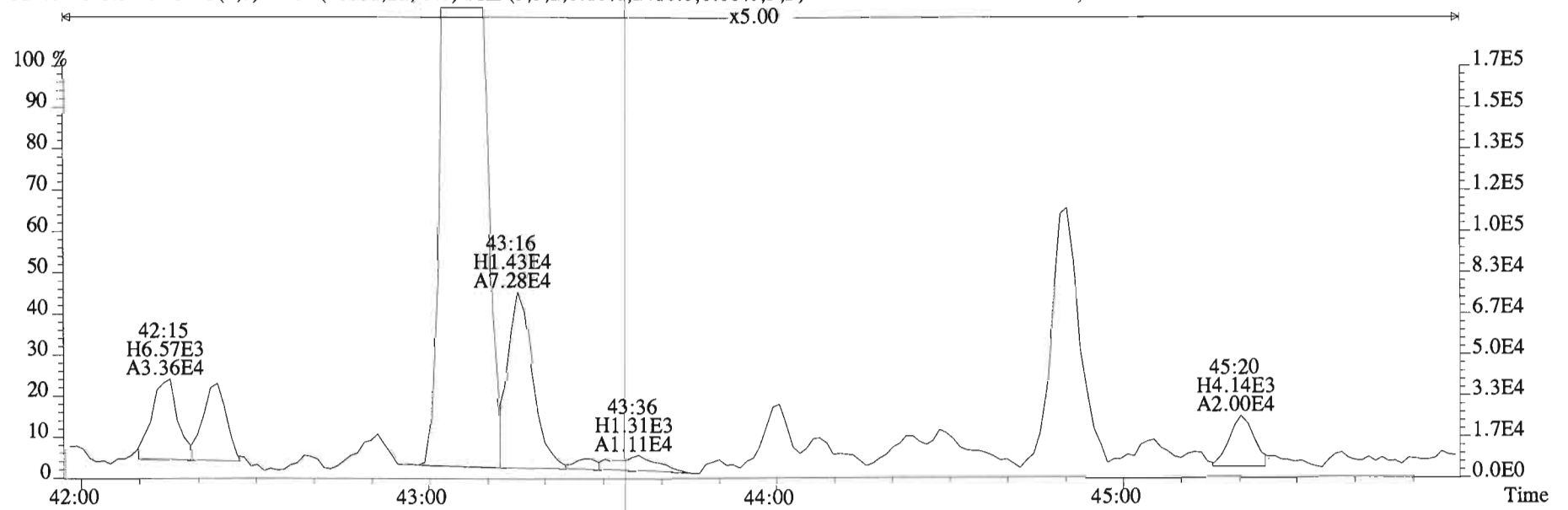
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
325.8804 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2960.0,0.00%,F,F)



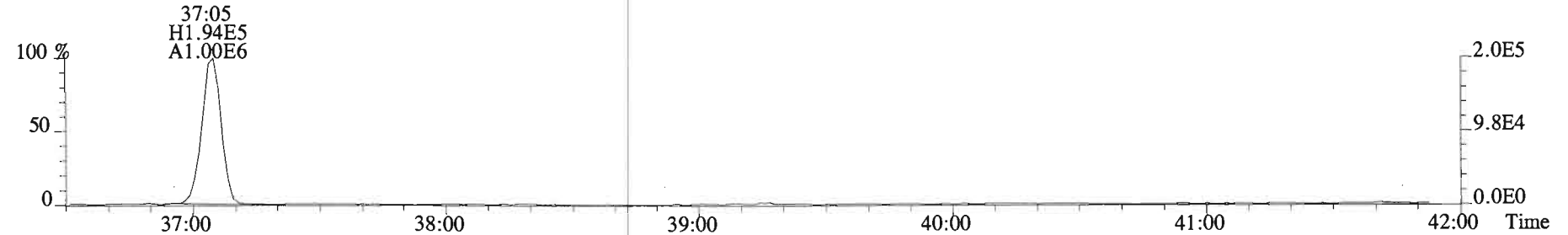
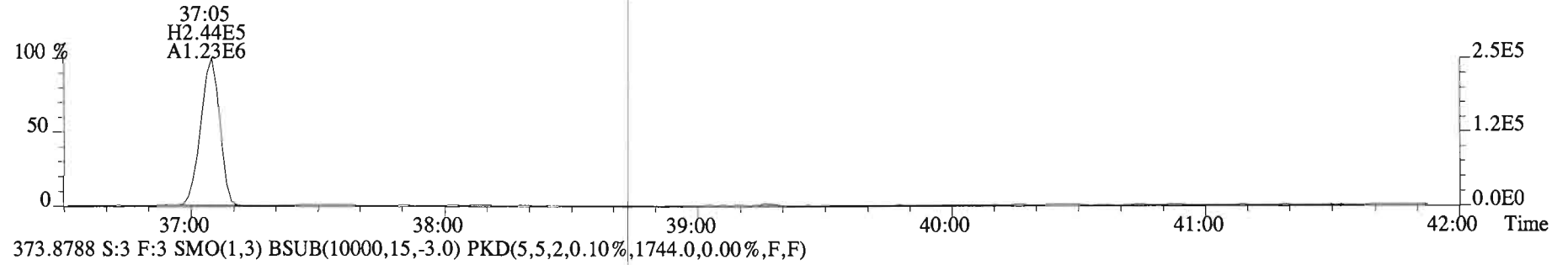
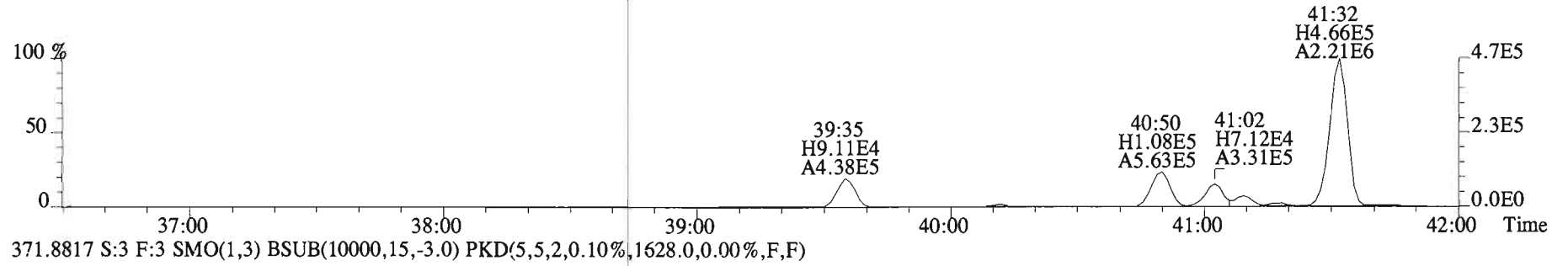
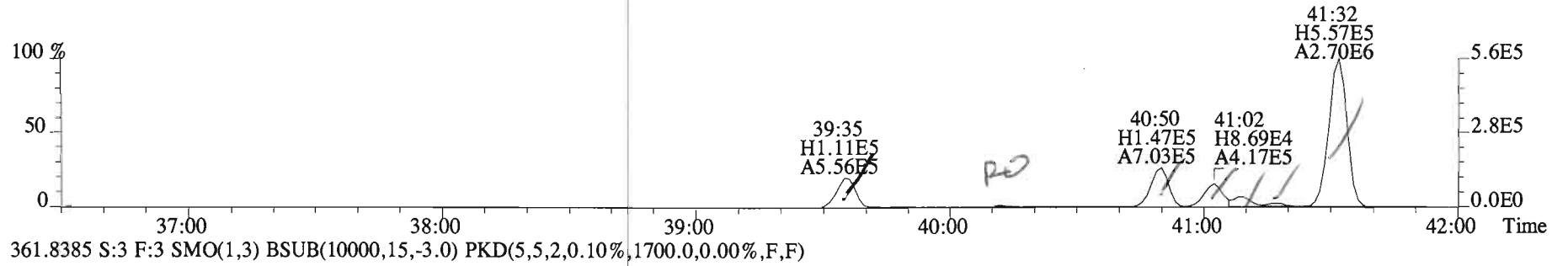
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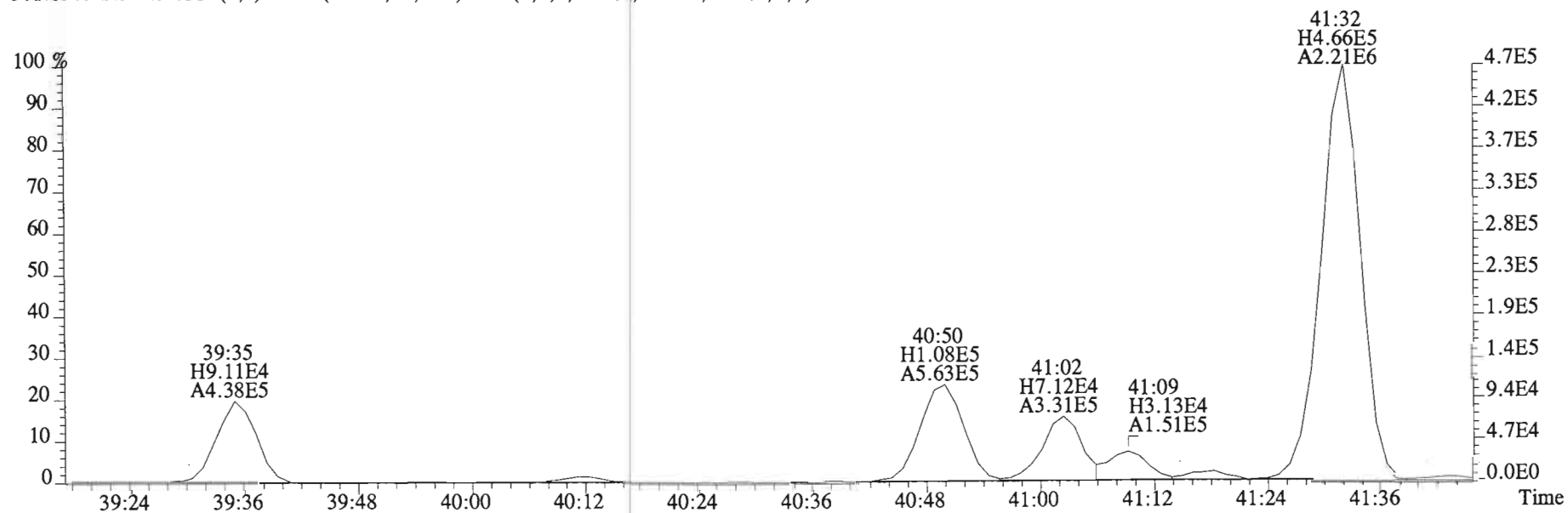
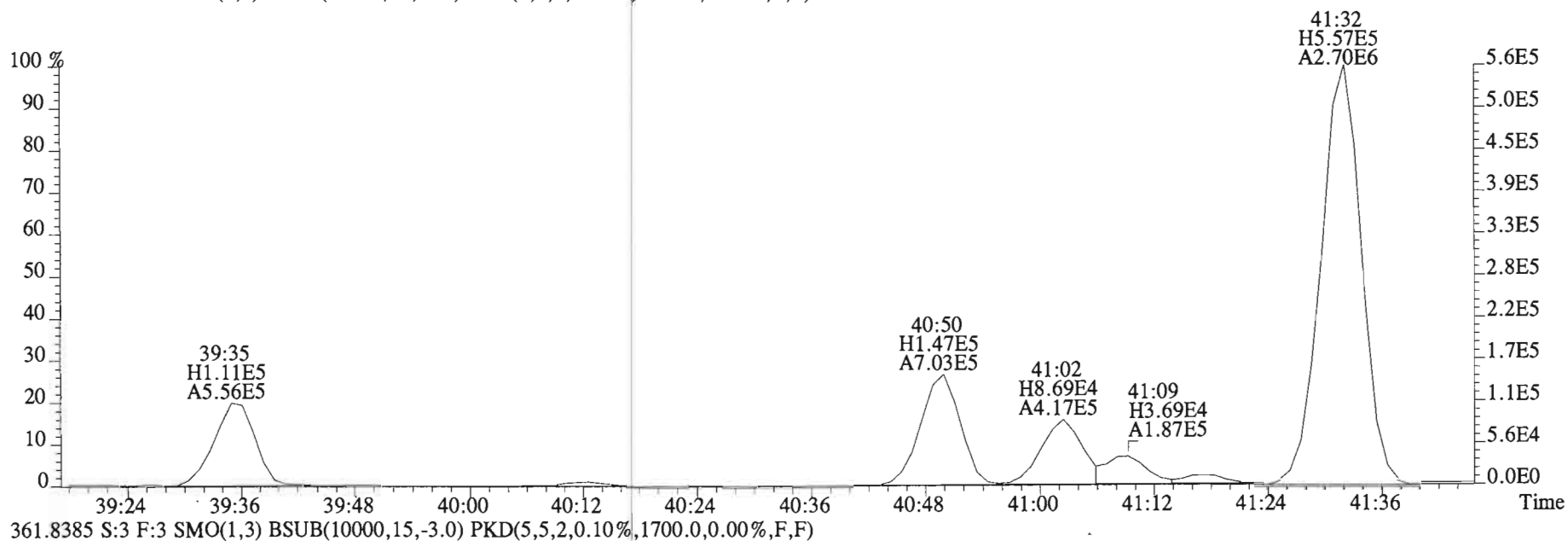
327.8775 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2416.0,0.00%,F,F)



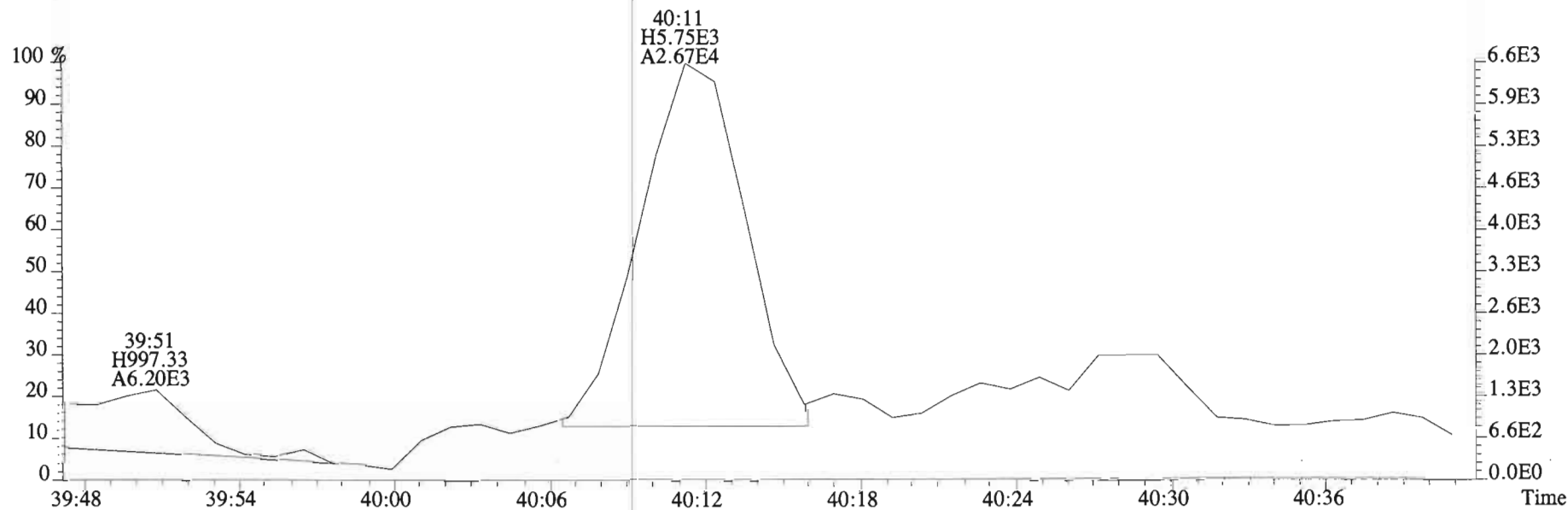
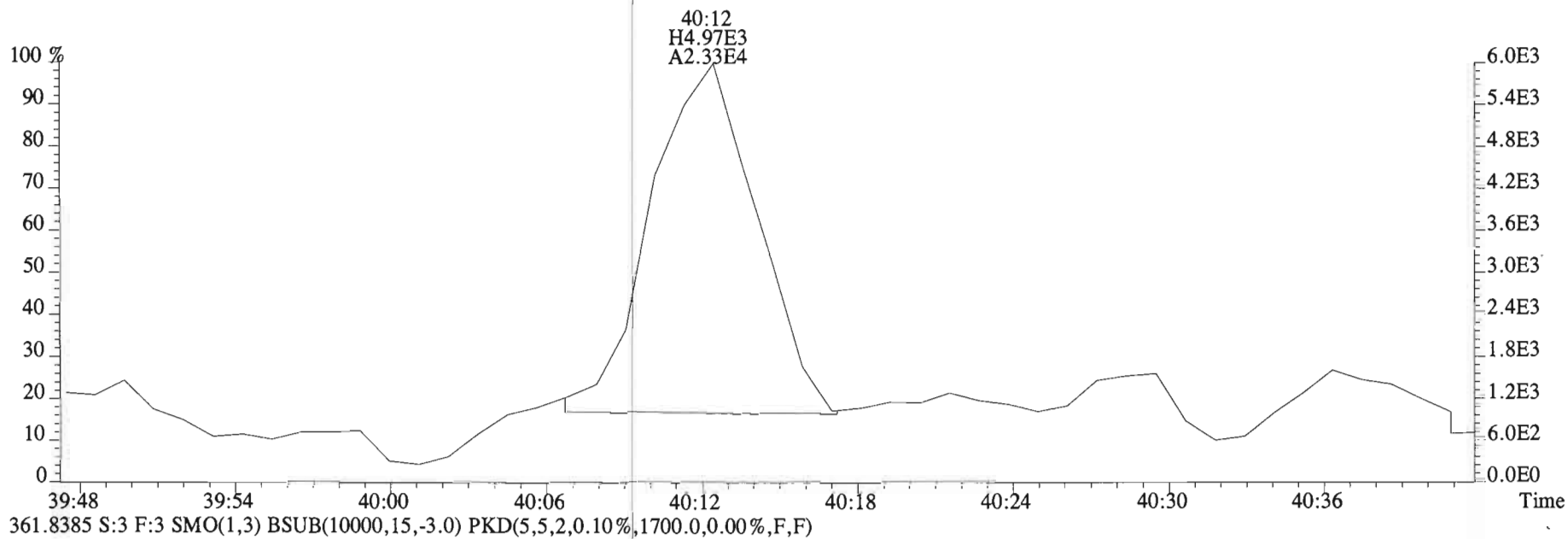
File:150227E1 #1-758 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
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359.8415 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1724.0,0.00%,F,F)



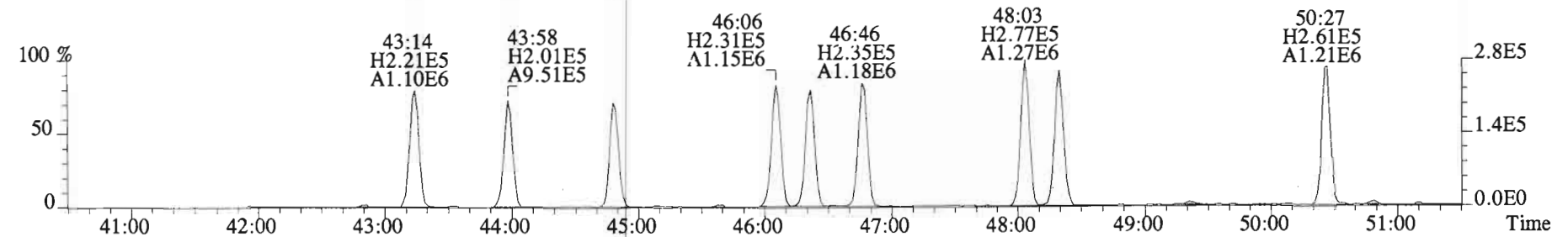
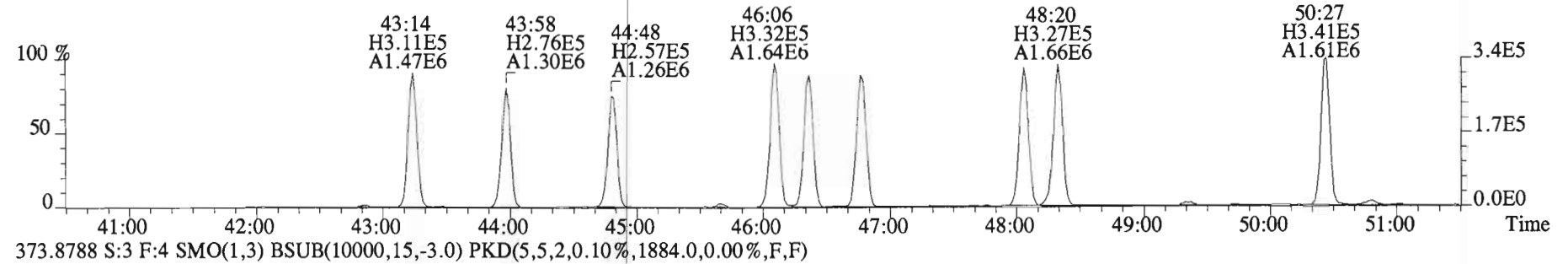
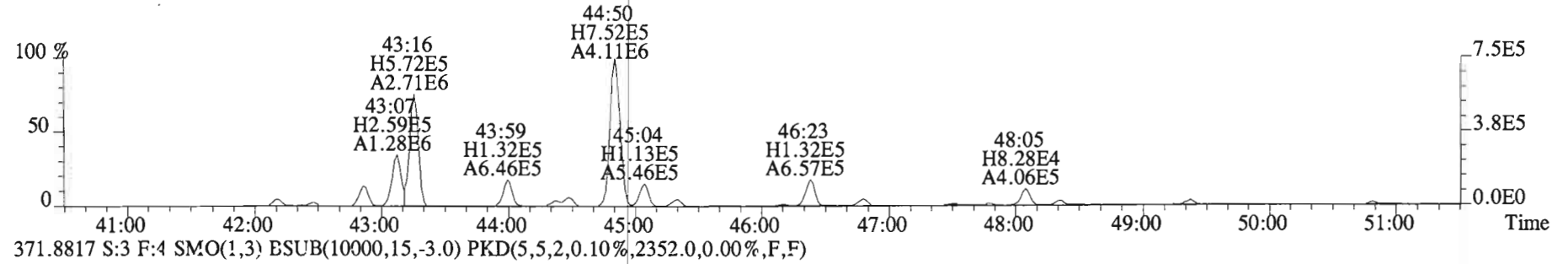
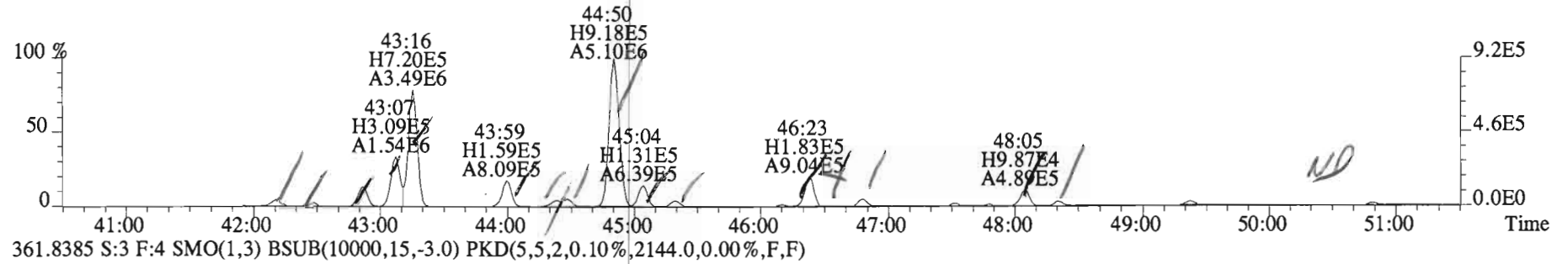
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
359.8415 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1724.0,0.00%,F,F)



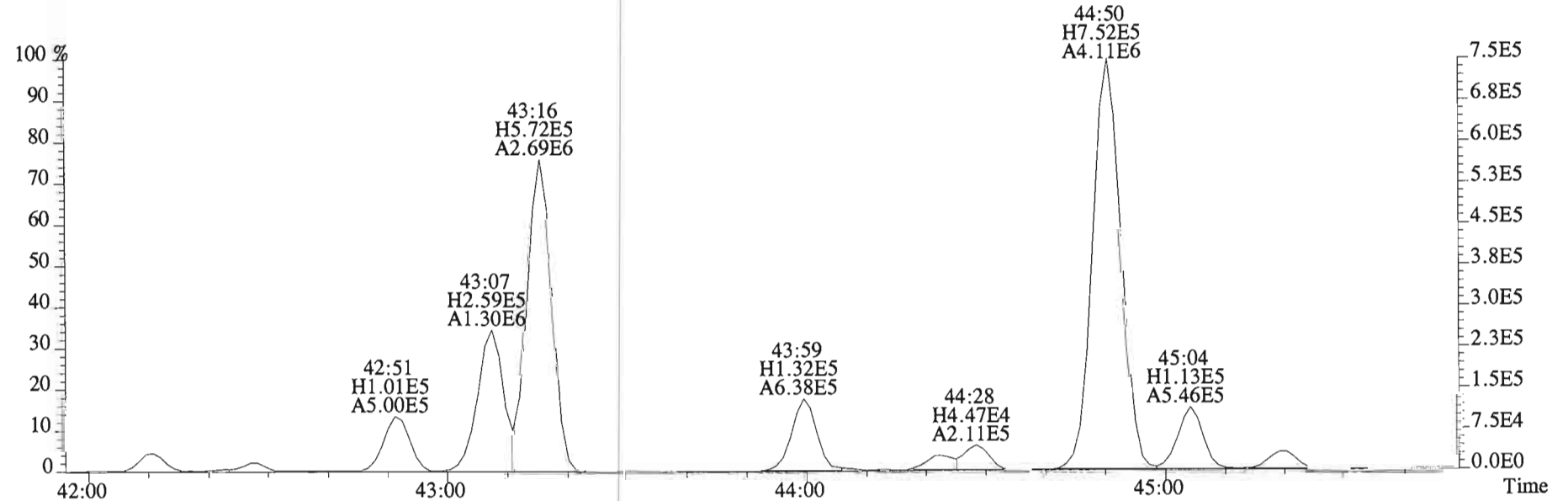
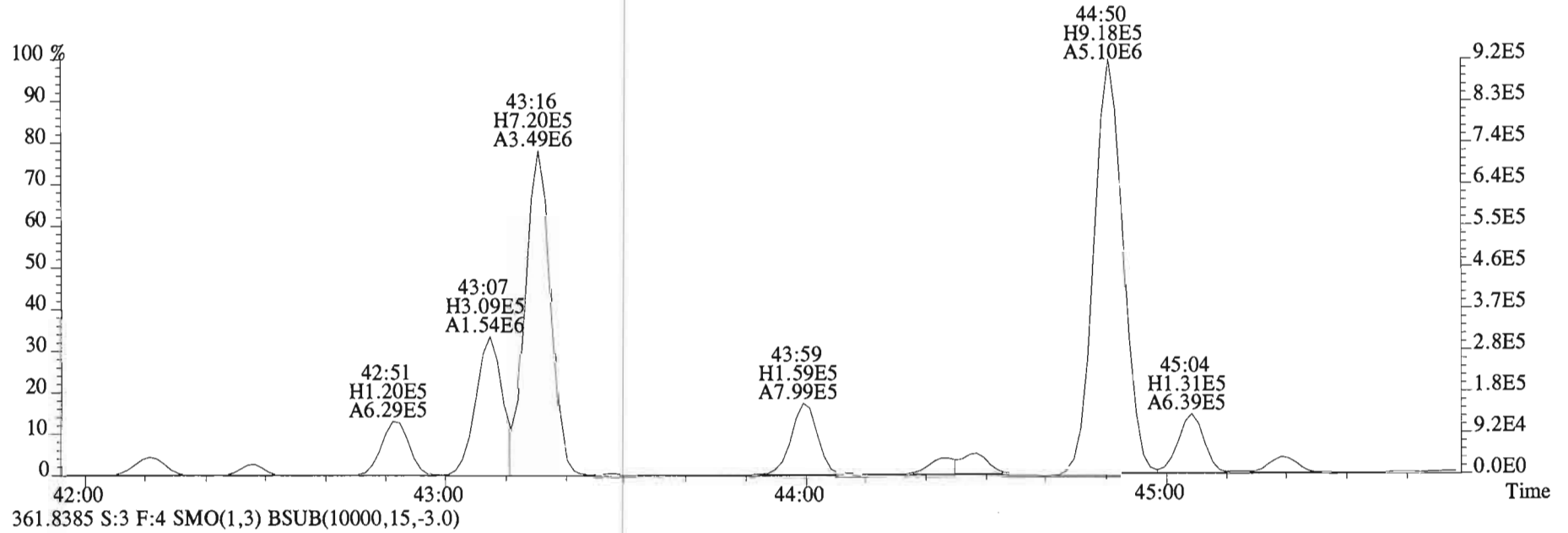
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Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
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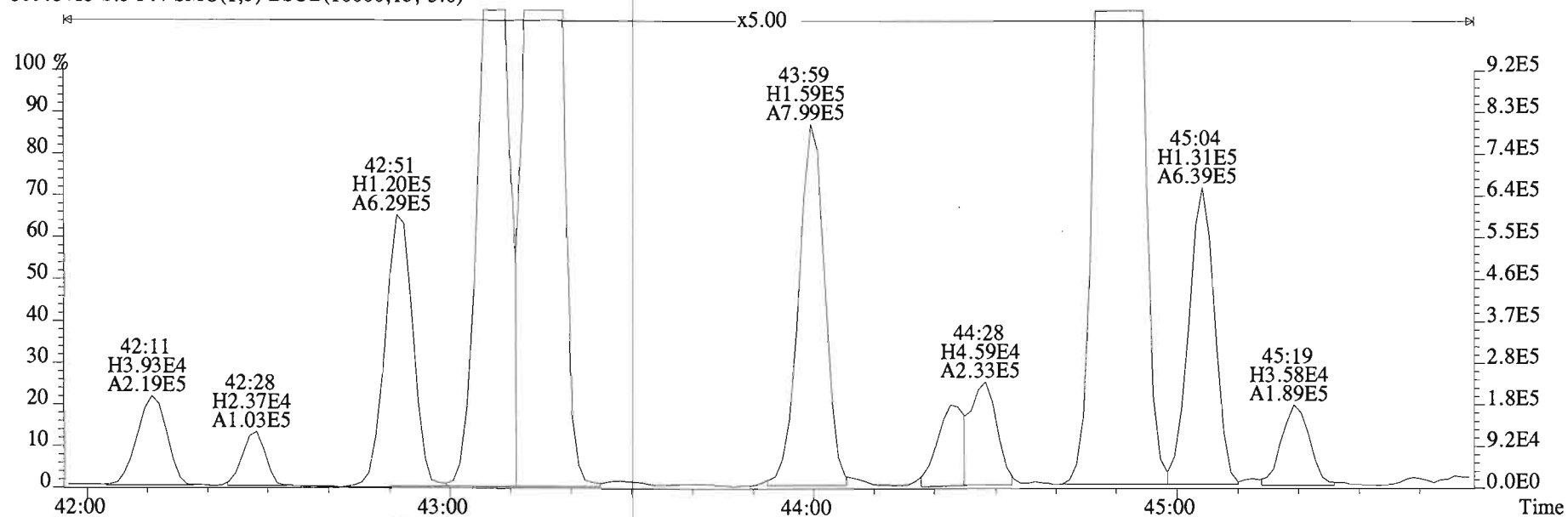
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
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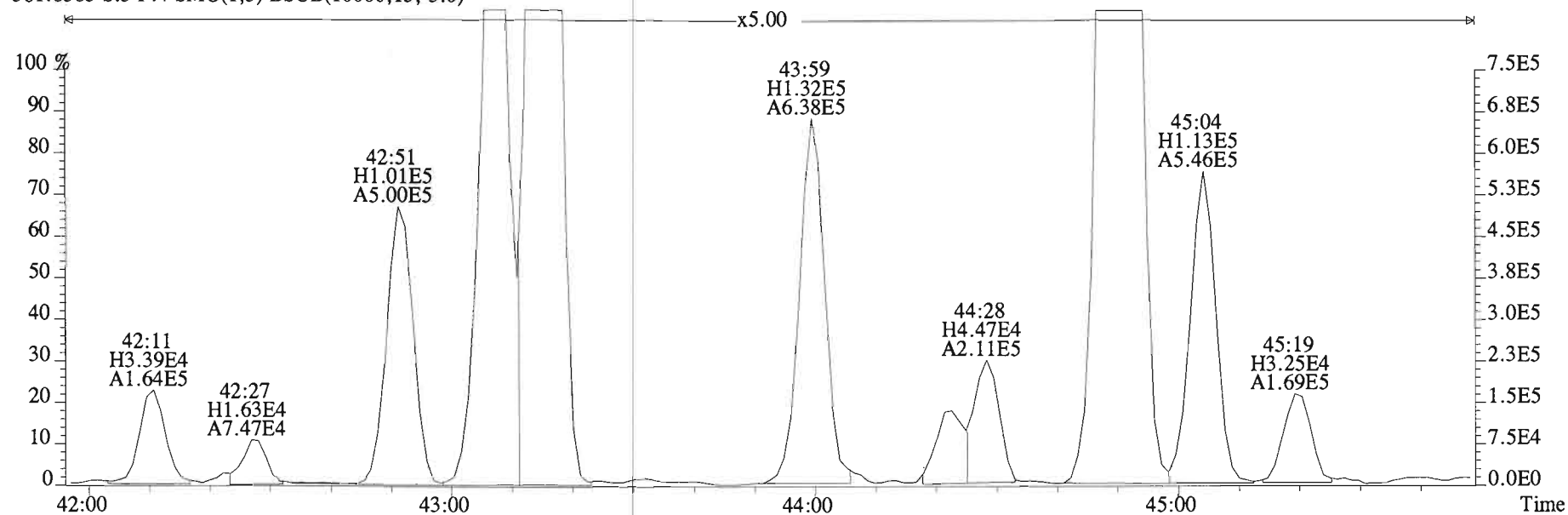
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 359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0)



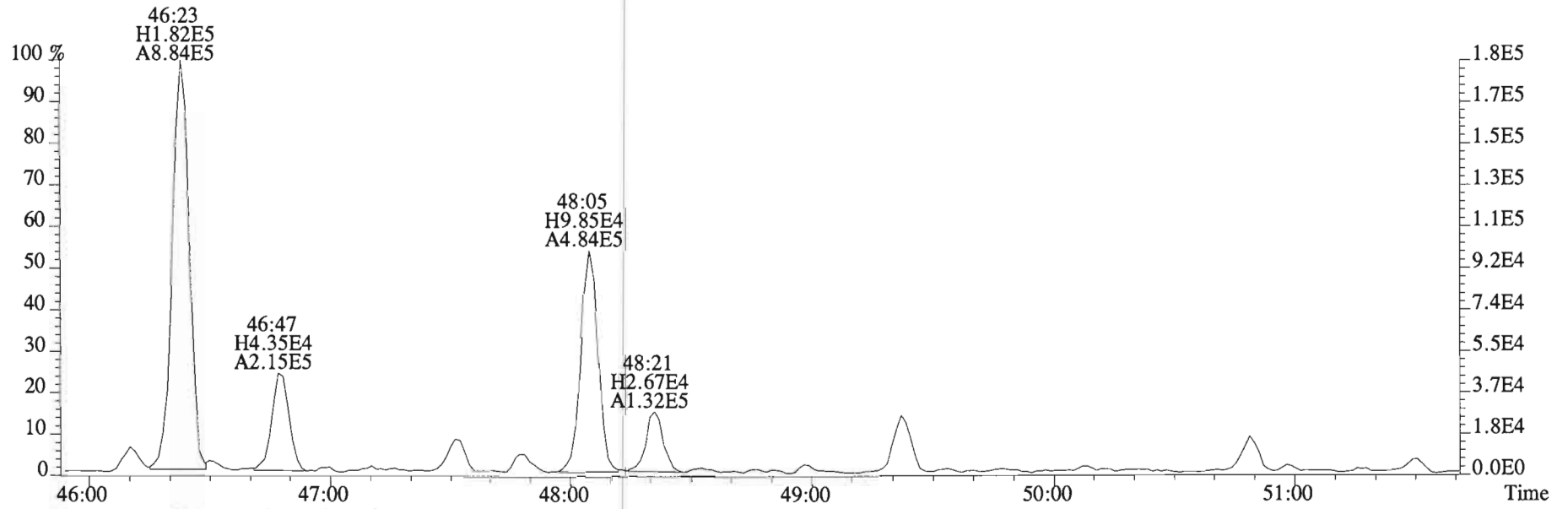
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
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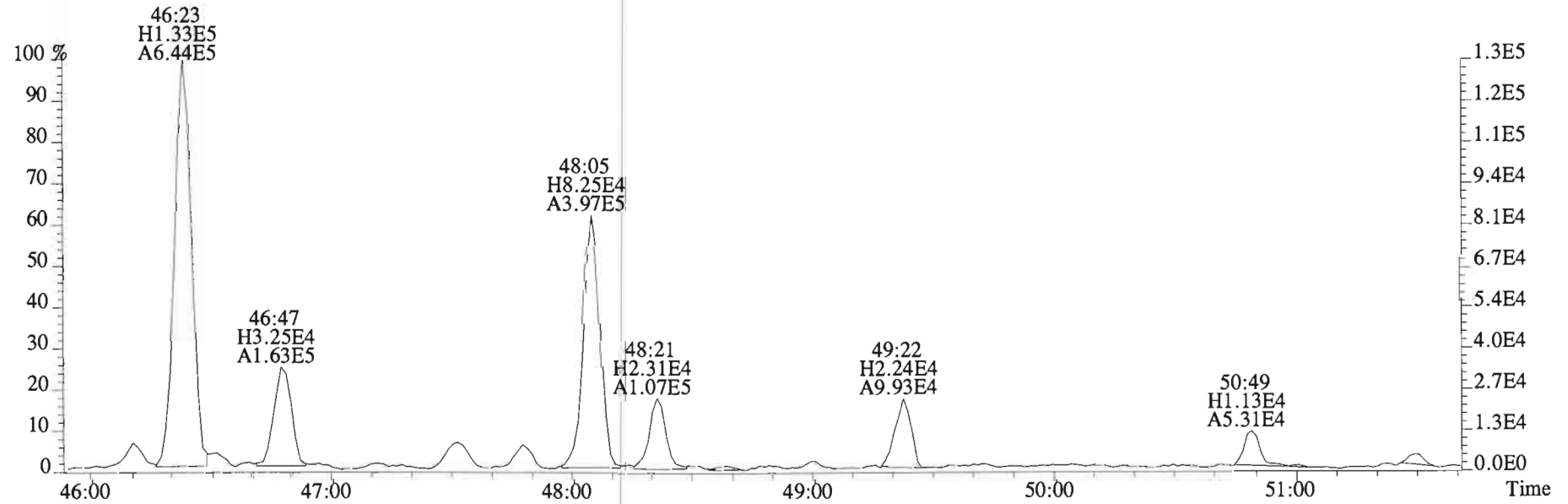
361.8385 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0)



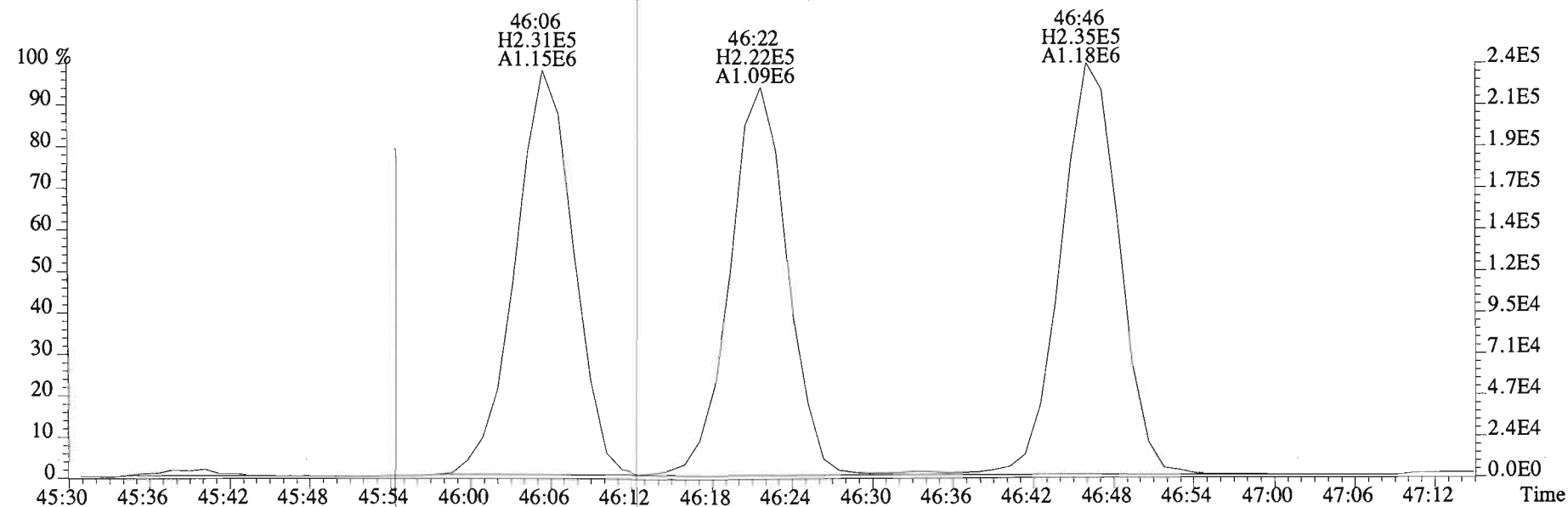
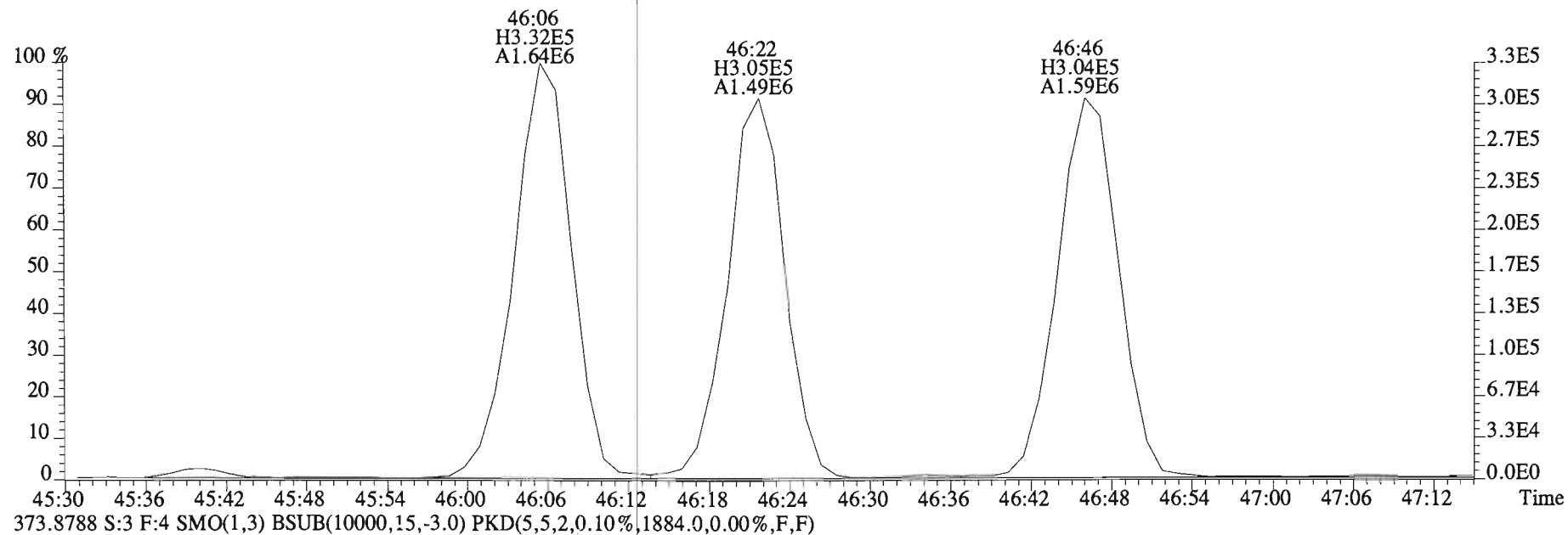
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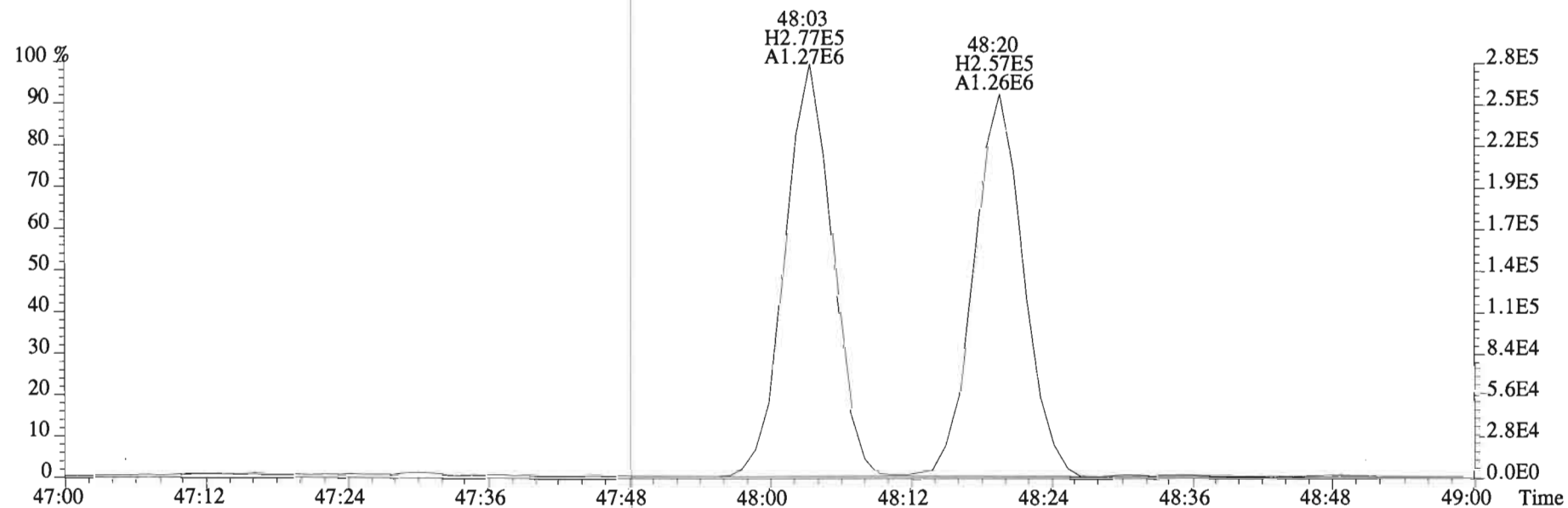
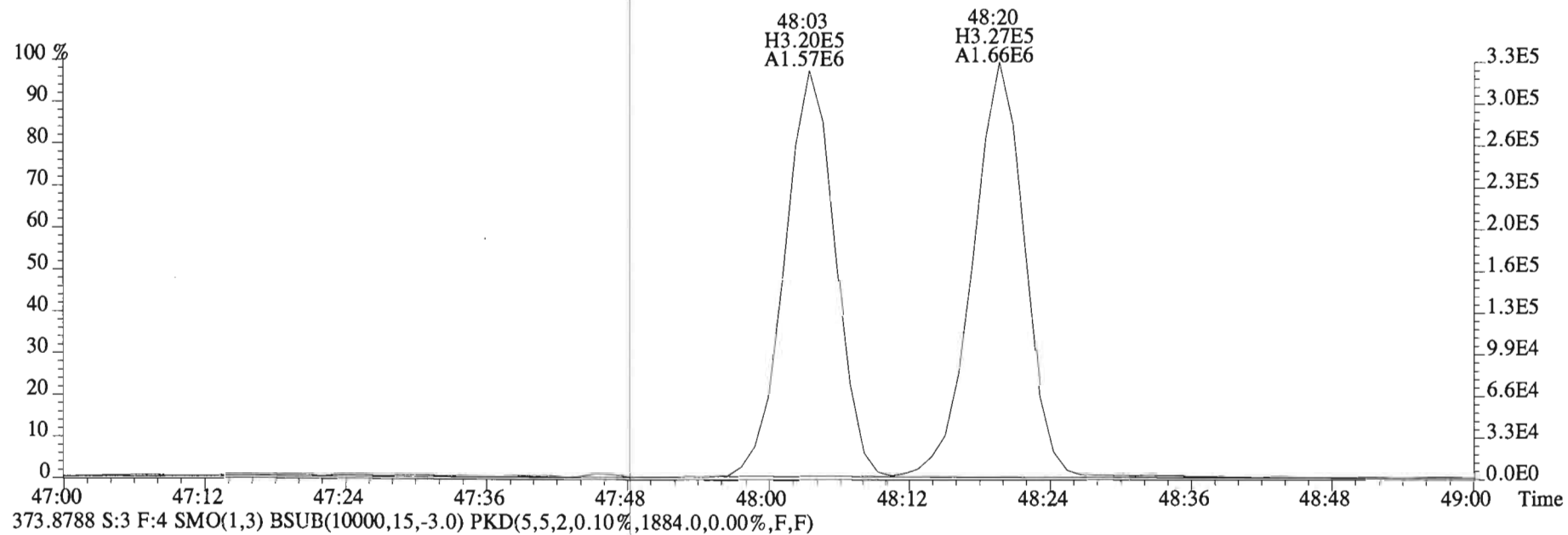
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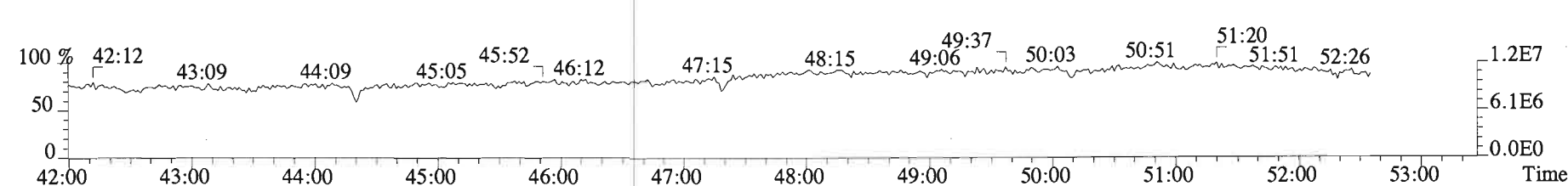
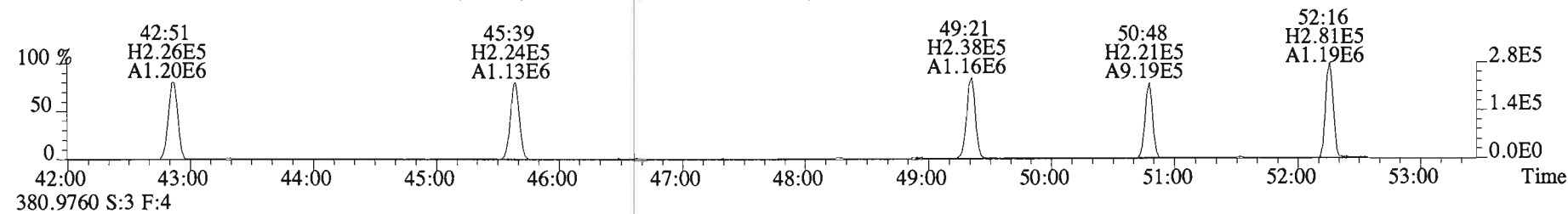
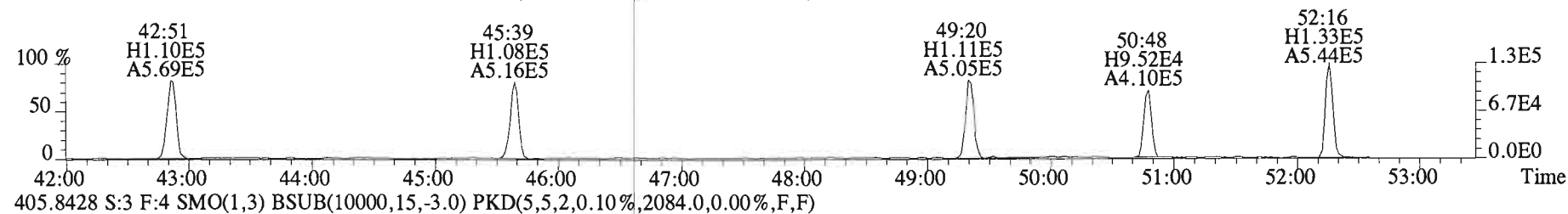
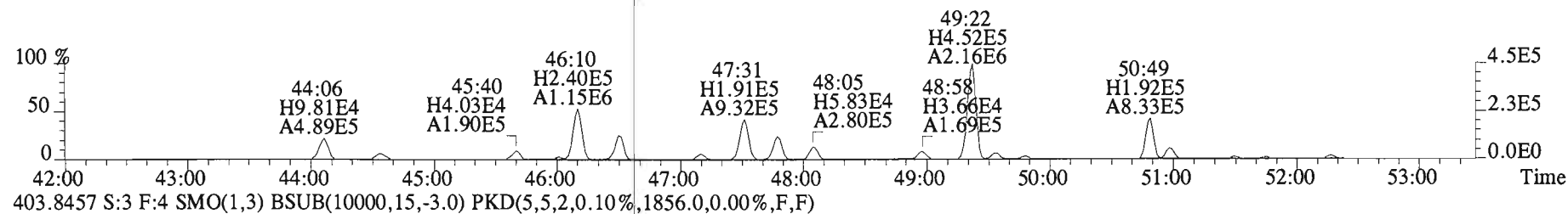
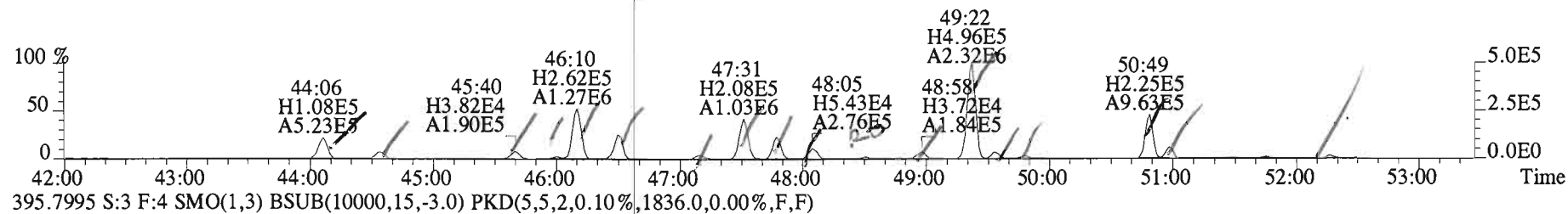
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371.8817 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2352.0,0.00%,F,F)



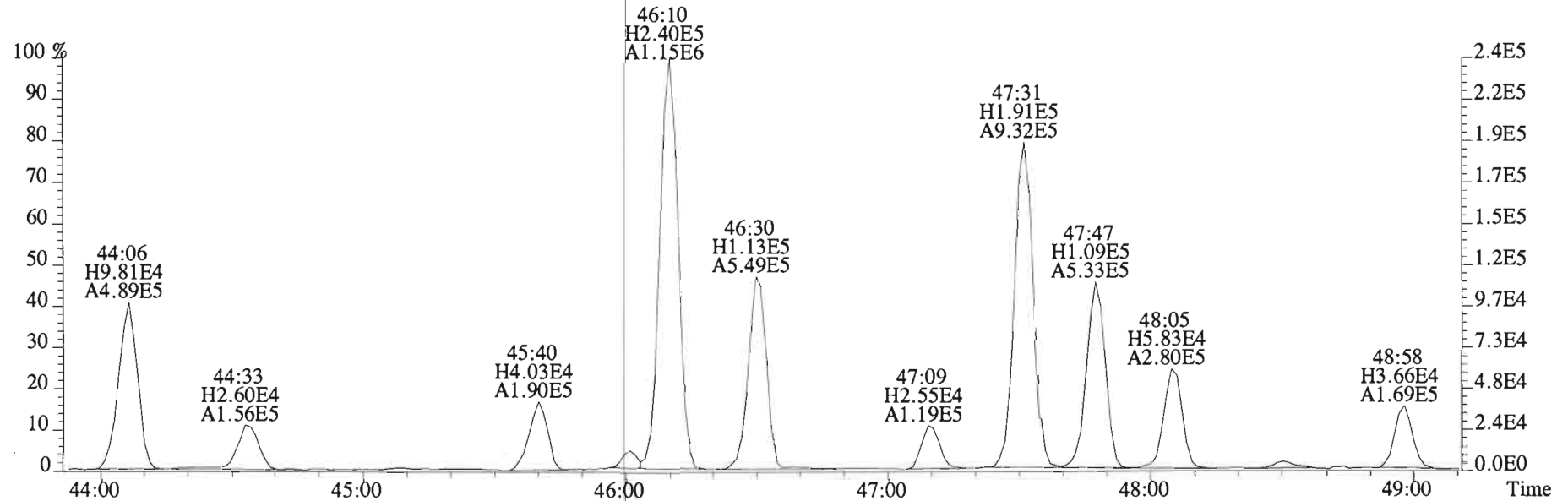
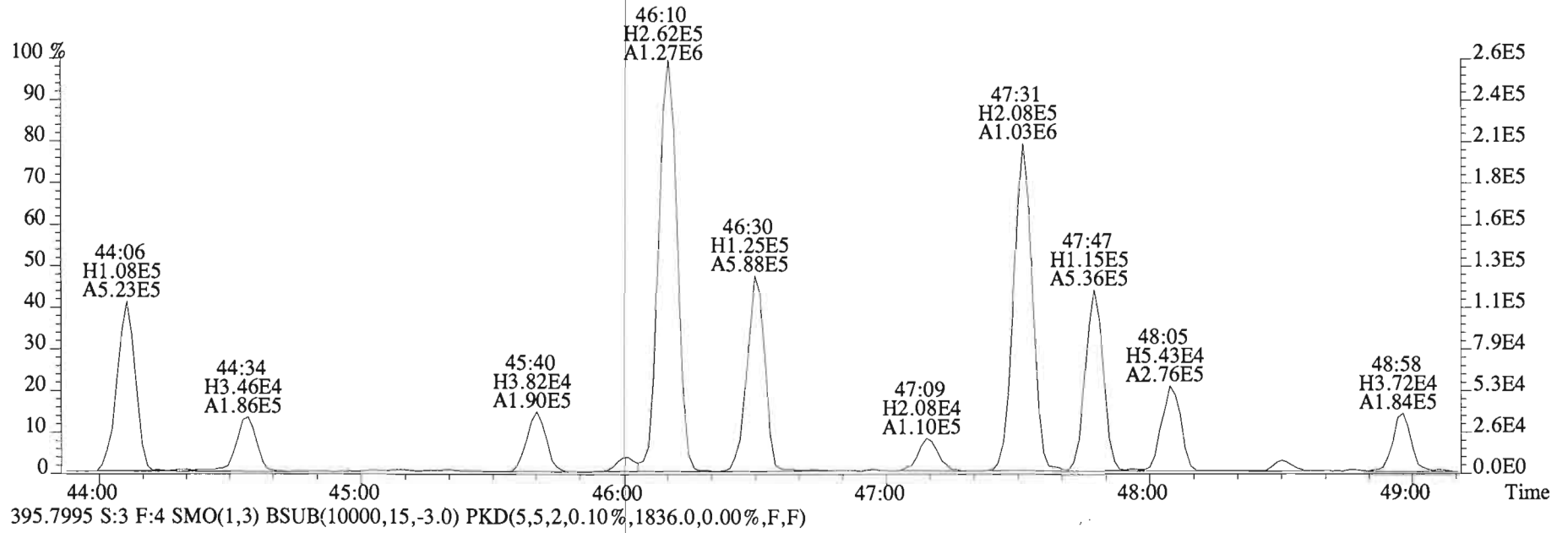
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371.8817 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2352.0,0.00%,F,F)



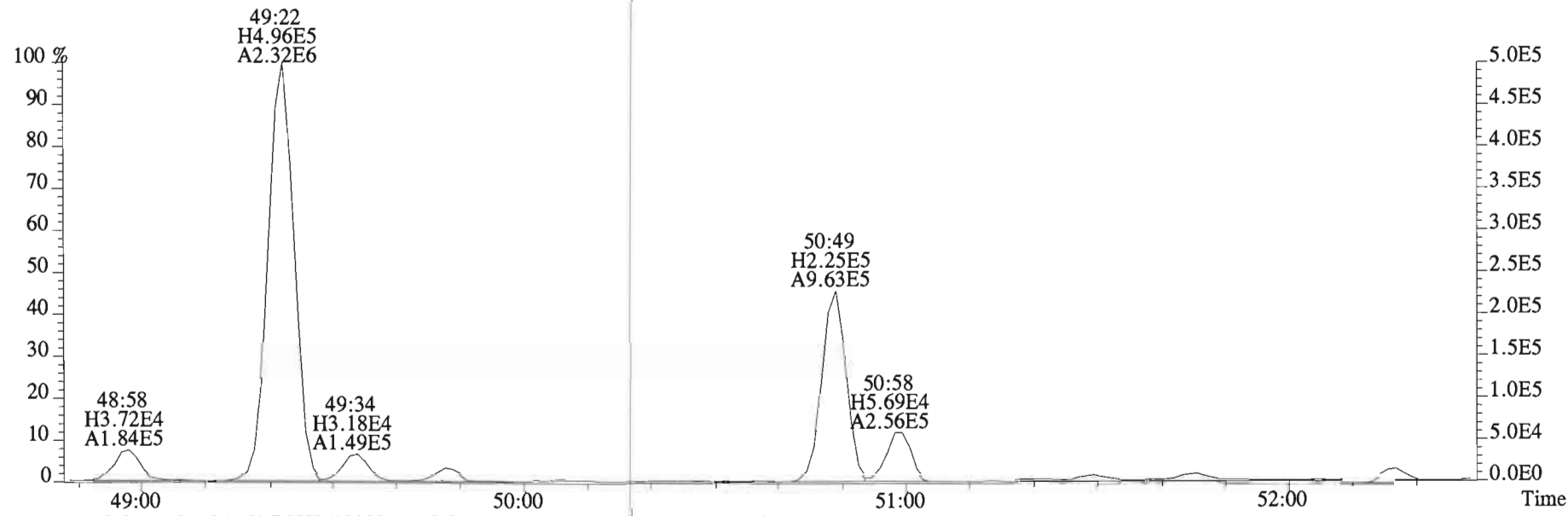
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2284.0,0.00%,F,F)



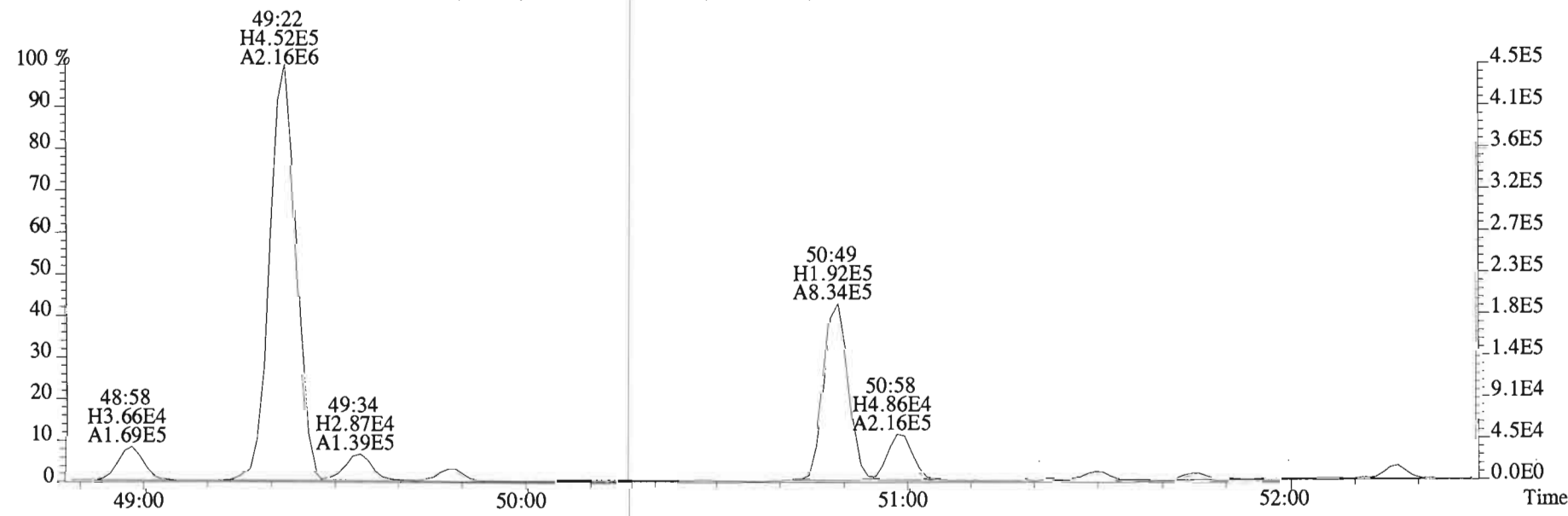
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 393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2284.0,0.00%,F,F)



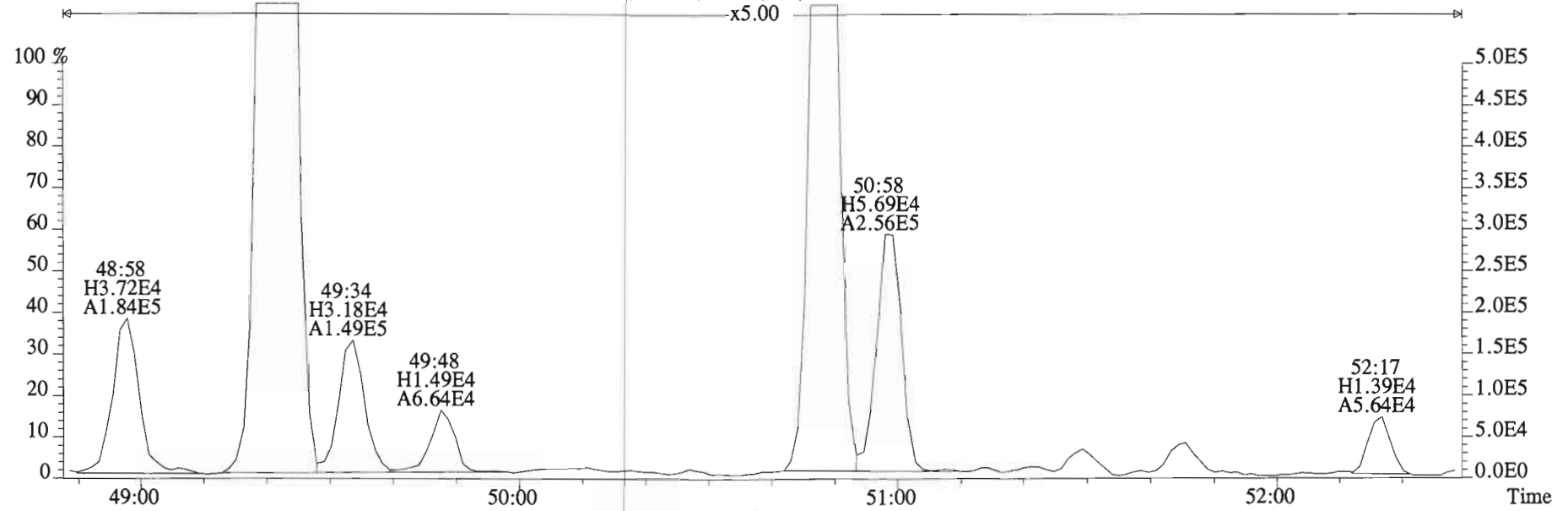
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 393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,2284.0,0.00%,F,F)



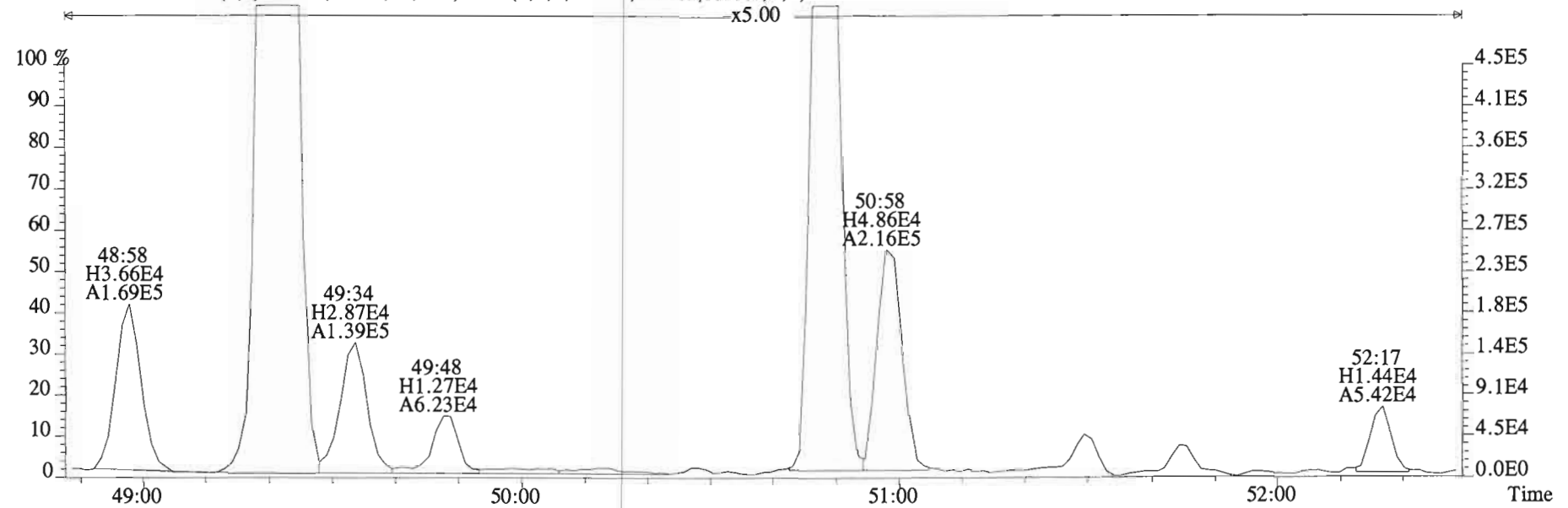
395.7995 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1836.0,0.00%,F,F)



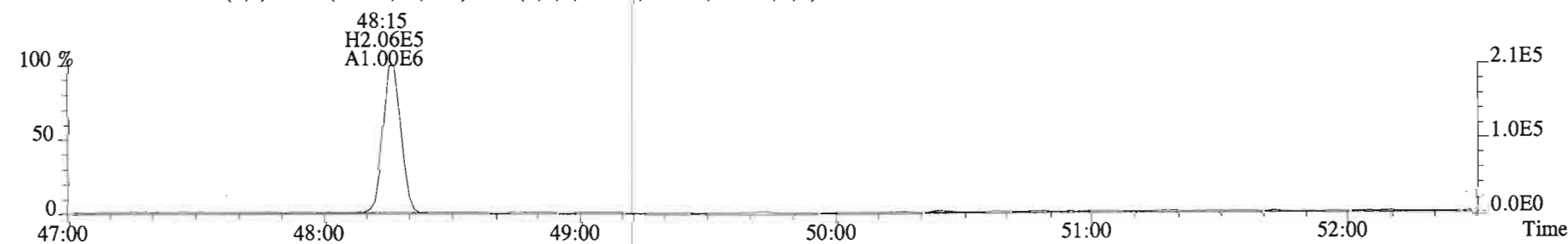
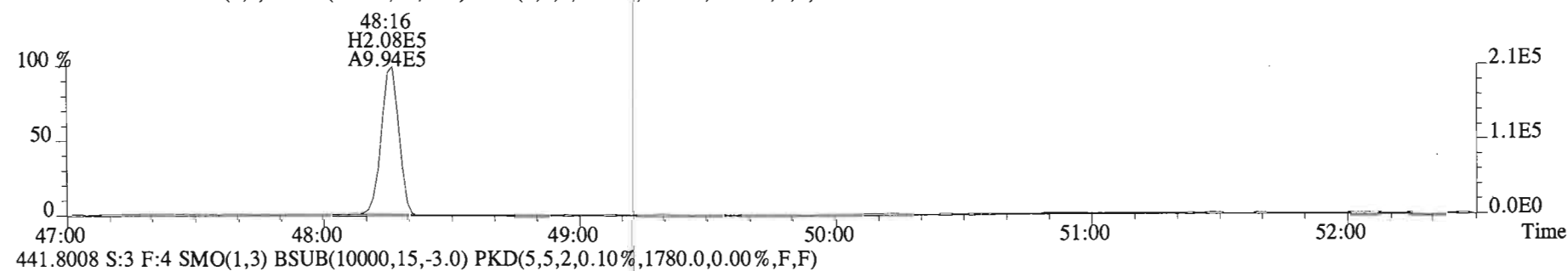
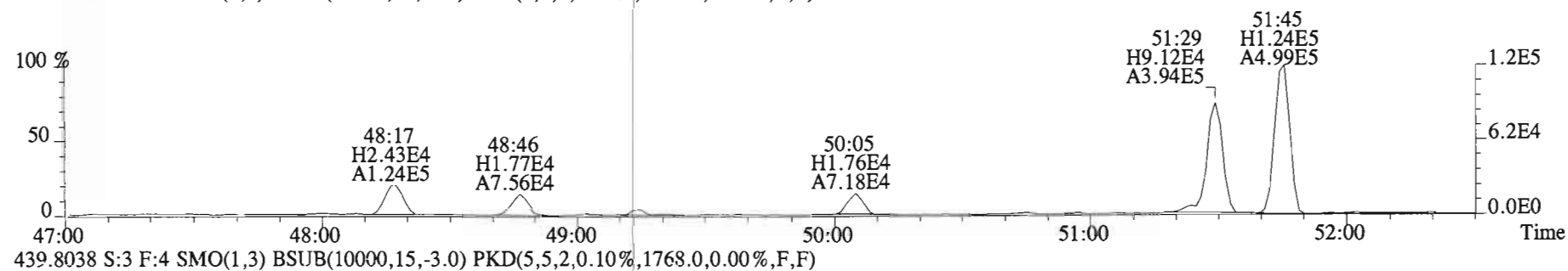
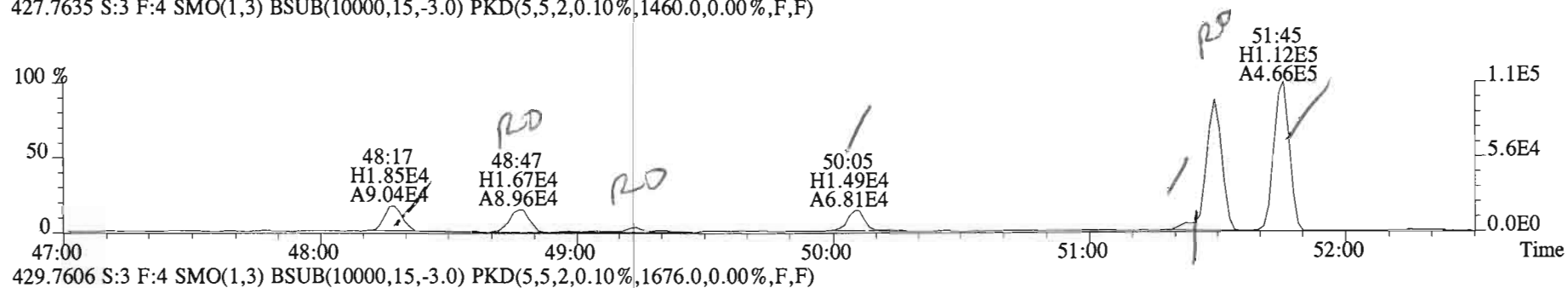
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
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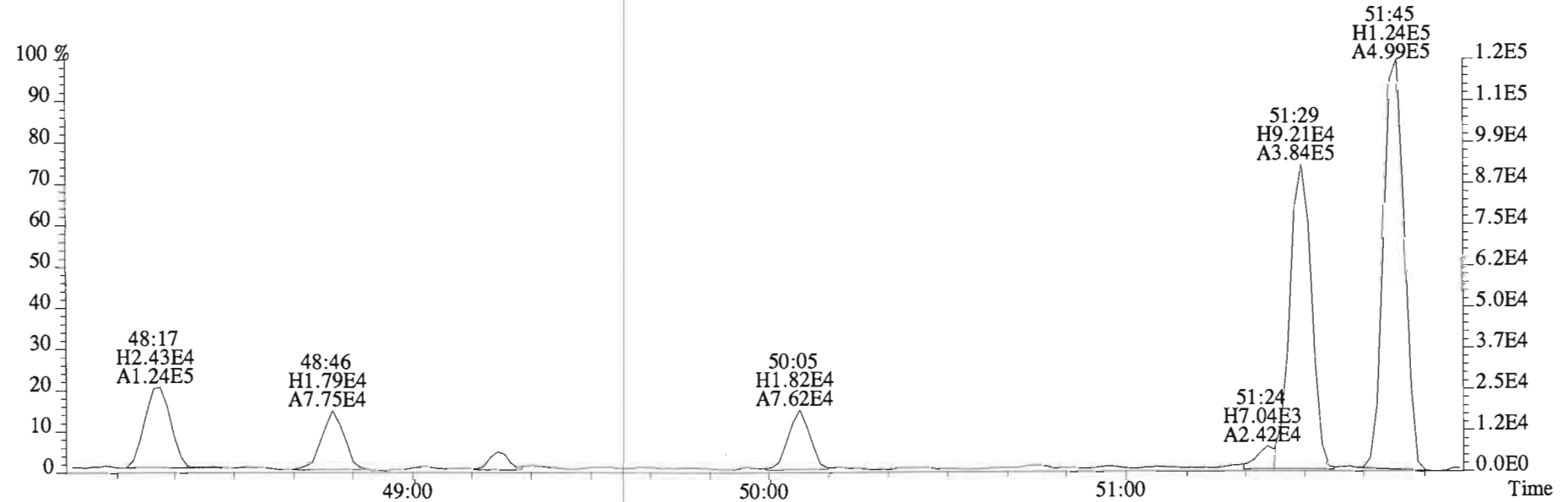
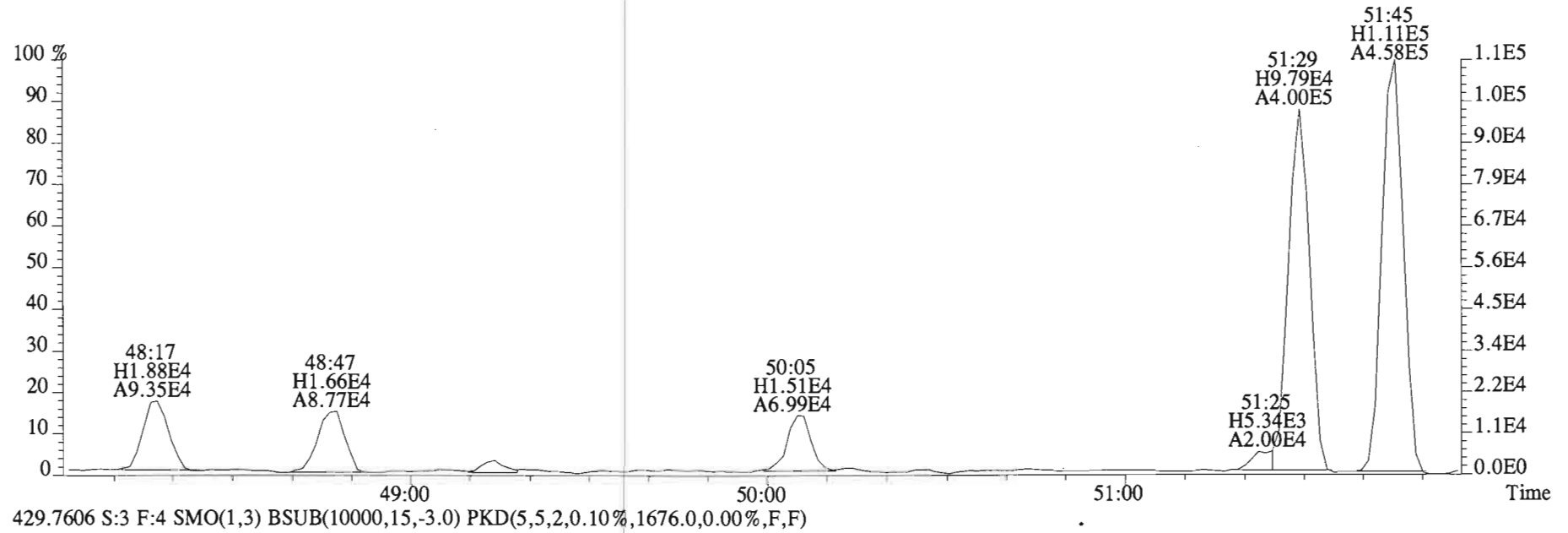
395.7995 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1836.0,0.00%,F,F)



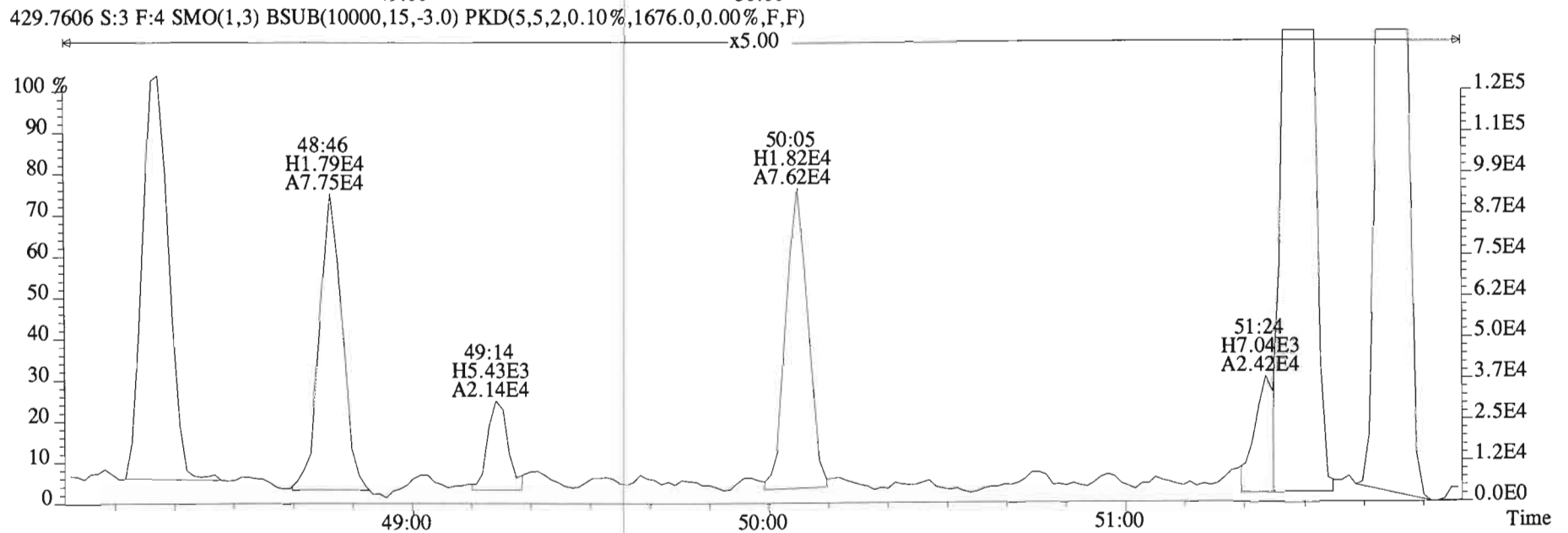
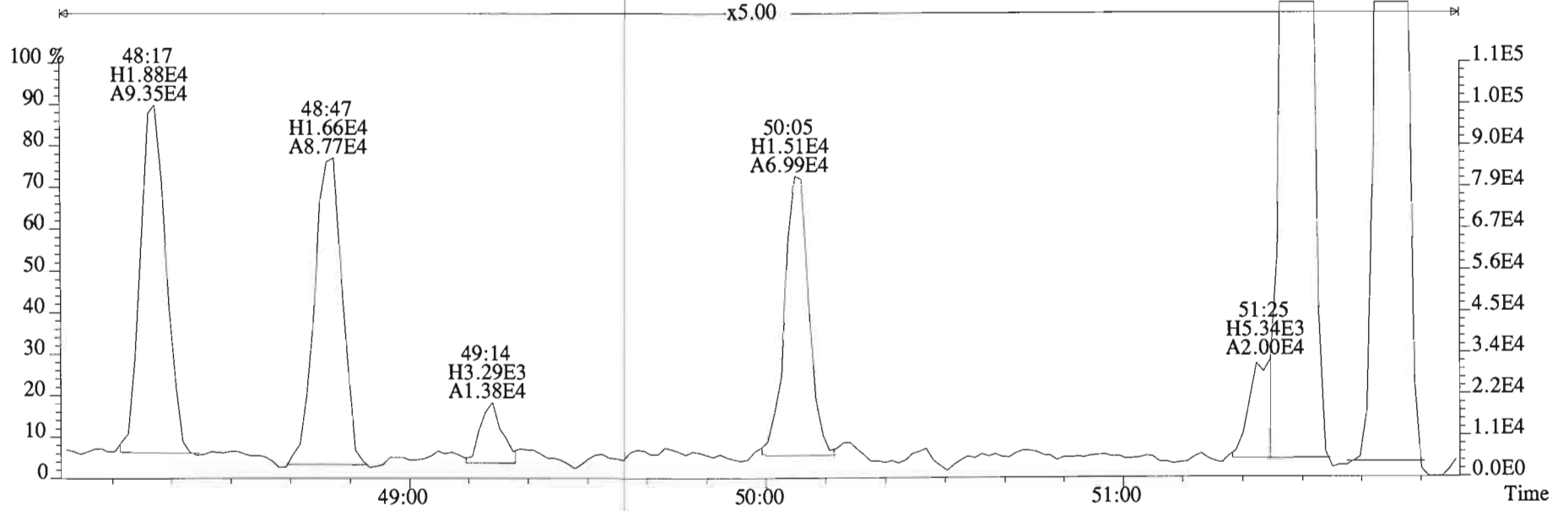
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
429.7635 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1460.0,0.00%,F,F)



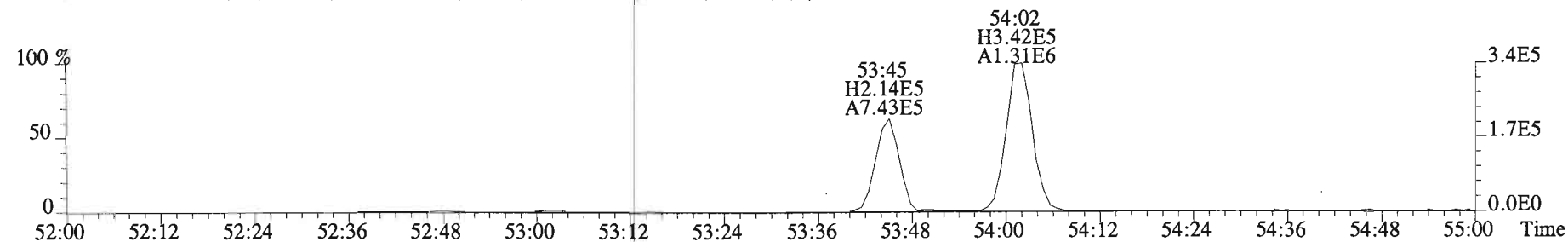
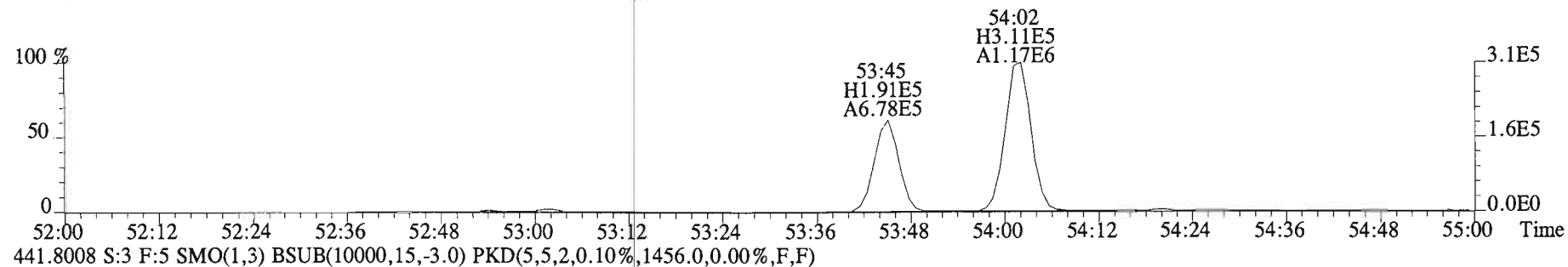
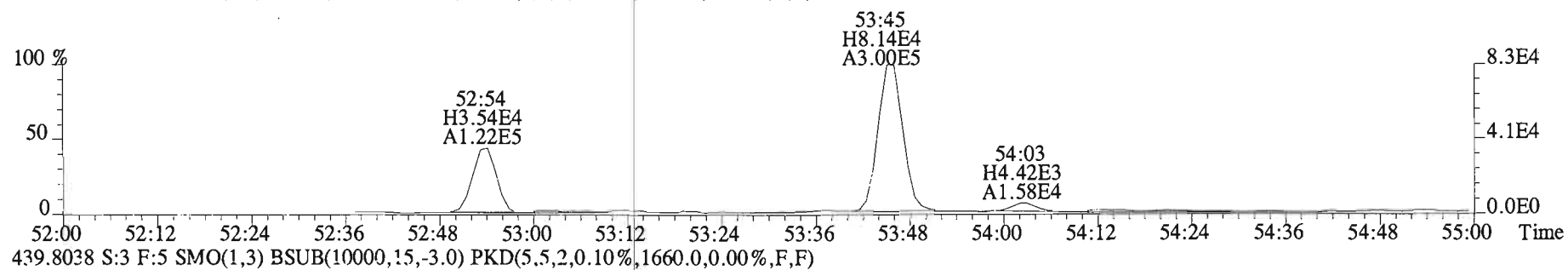
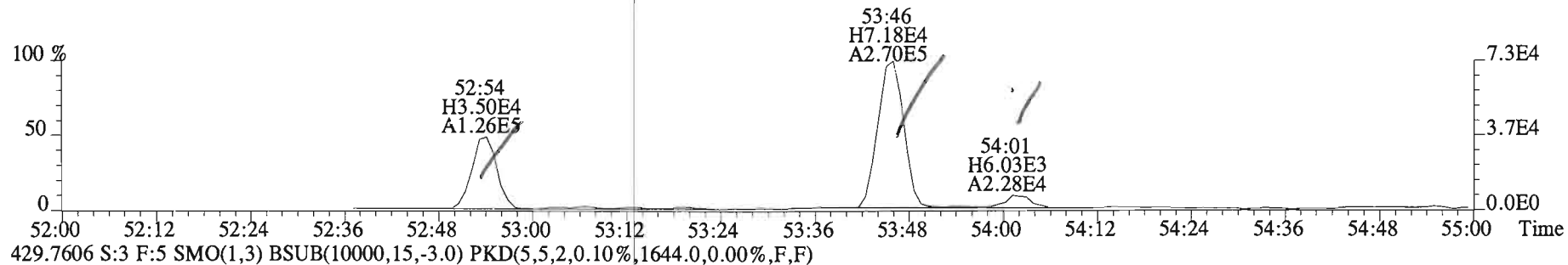
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
427.7635 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1460.0,0.00%,F,F)



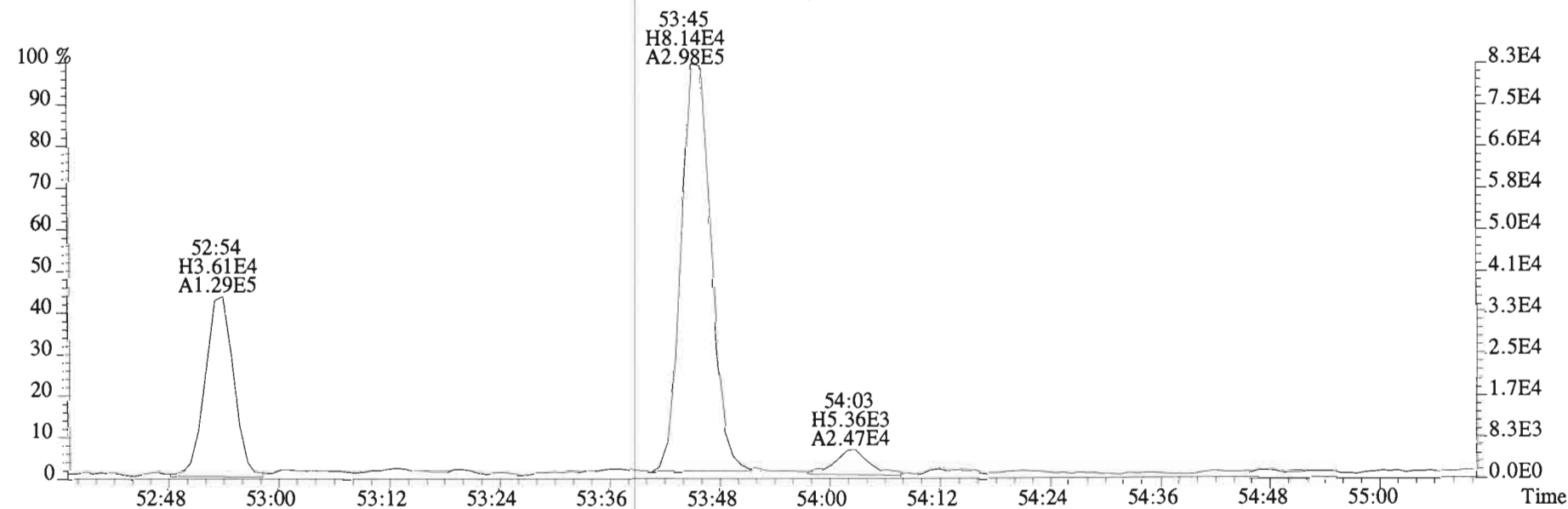
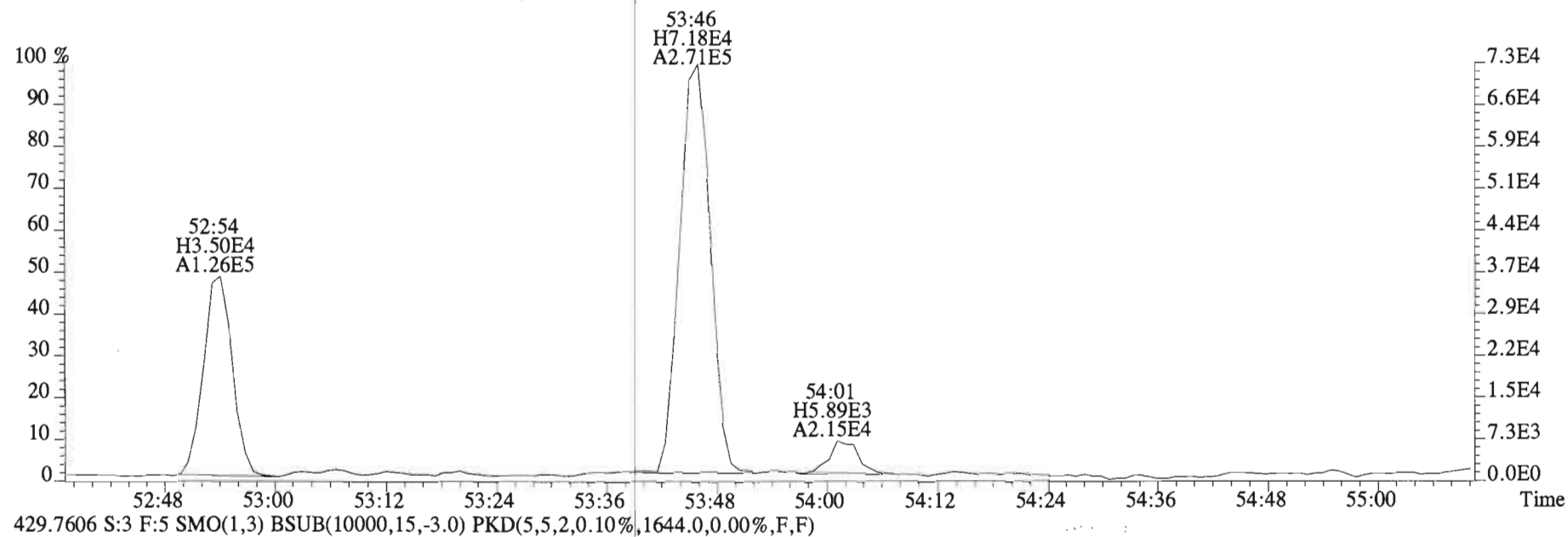
File:150227E1 #1-555 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
 427.7635 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1460.0,0.00%,F,F)



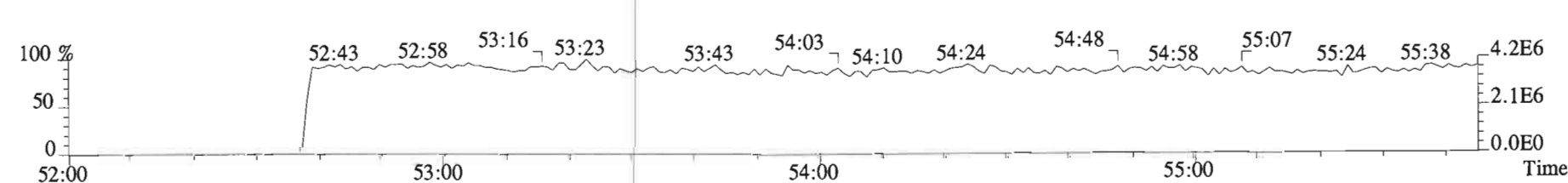
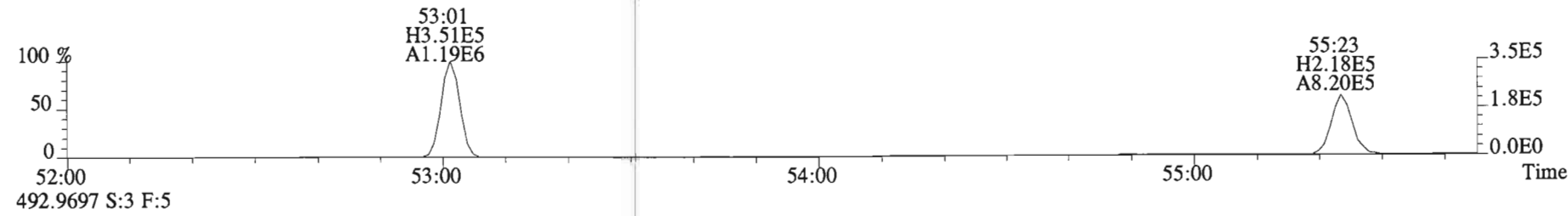
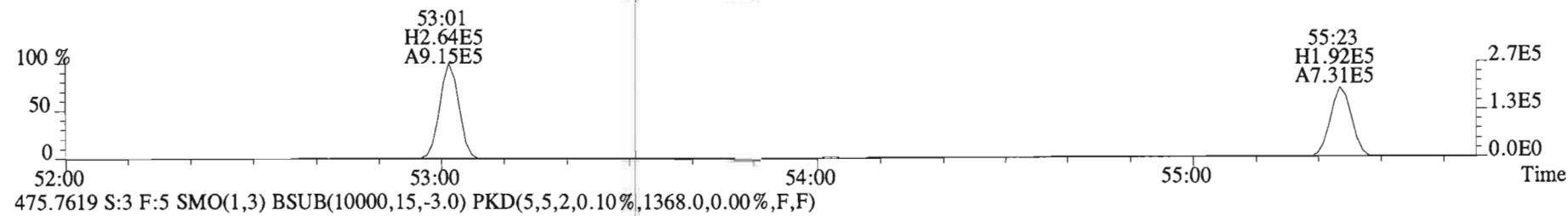
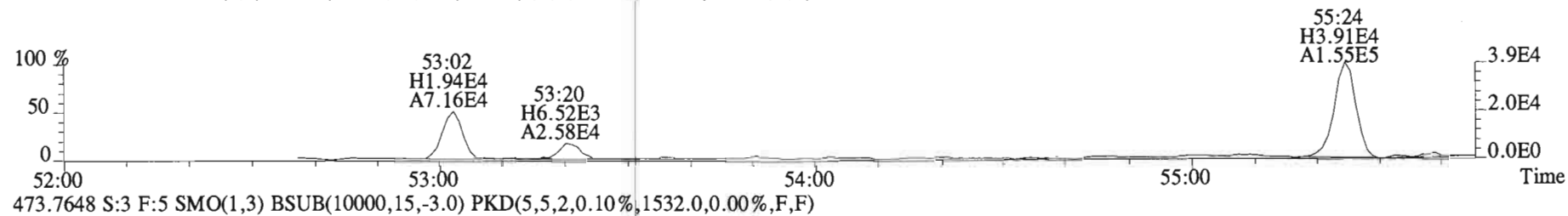
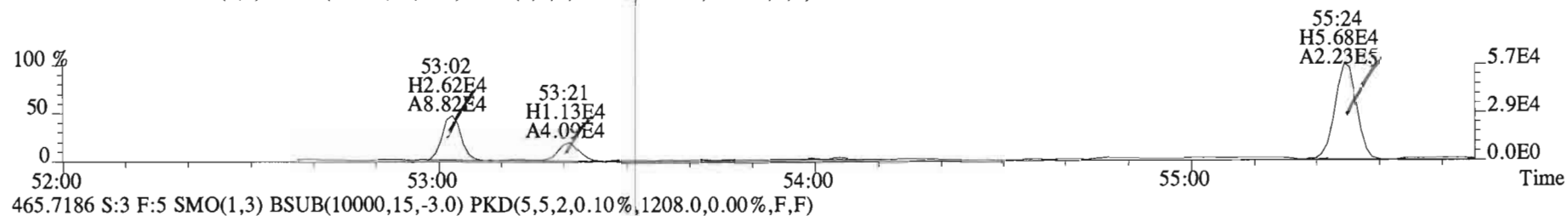
File:150227E1 #1-430 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
427.7635 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1592.0,0.00%,F,F)



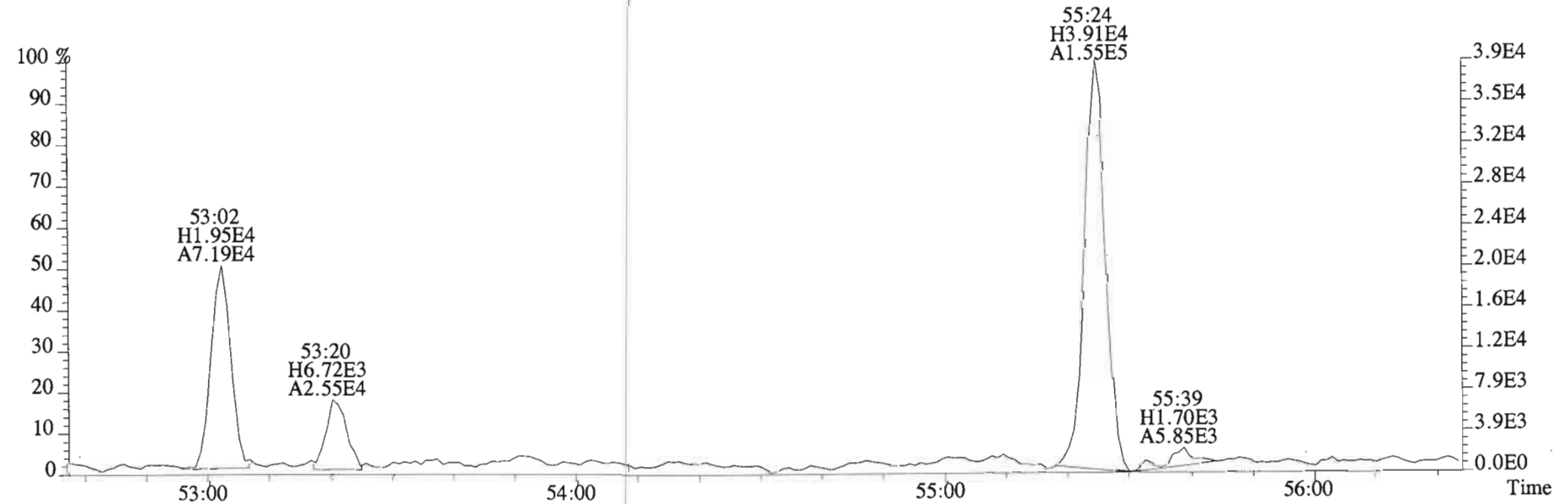
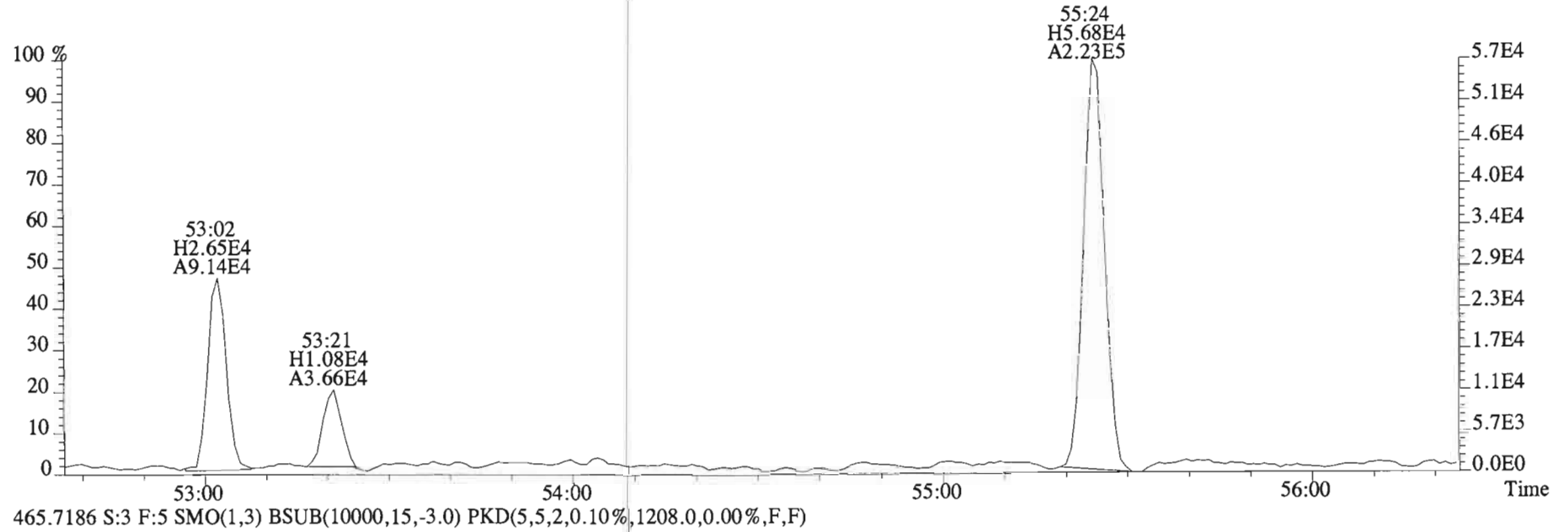
File:150227E1 #1-430 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
427.7635 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1592.0,0.00%,F,F)



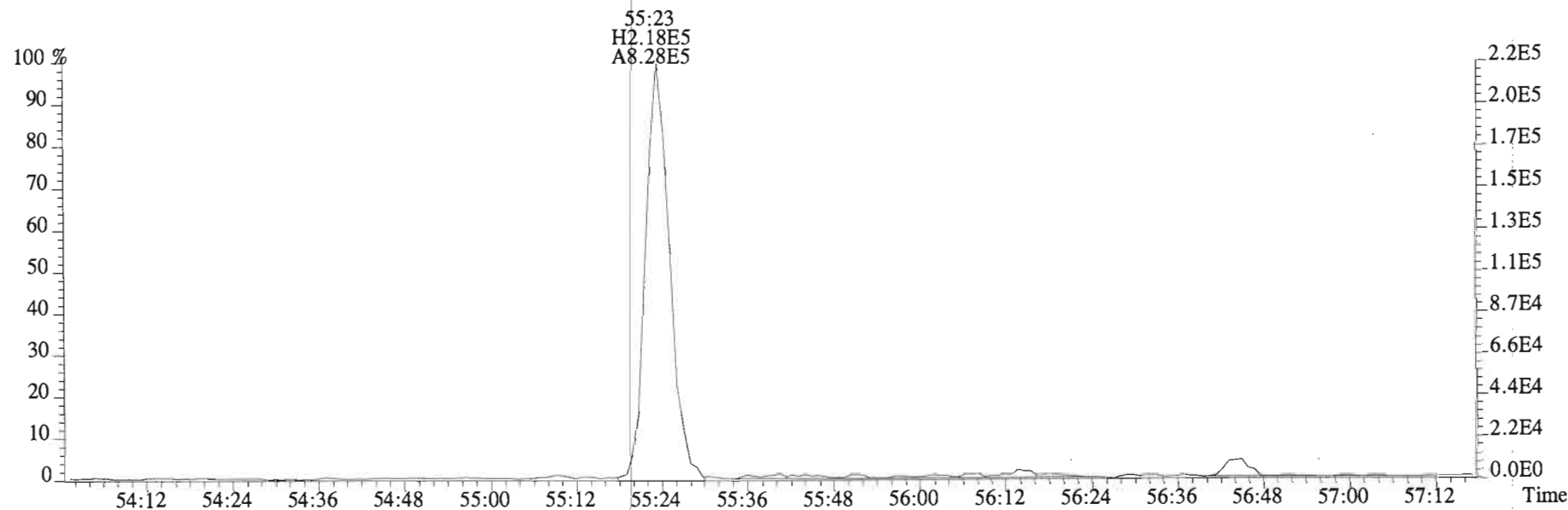
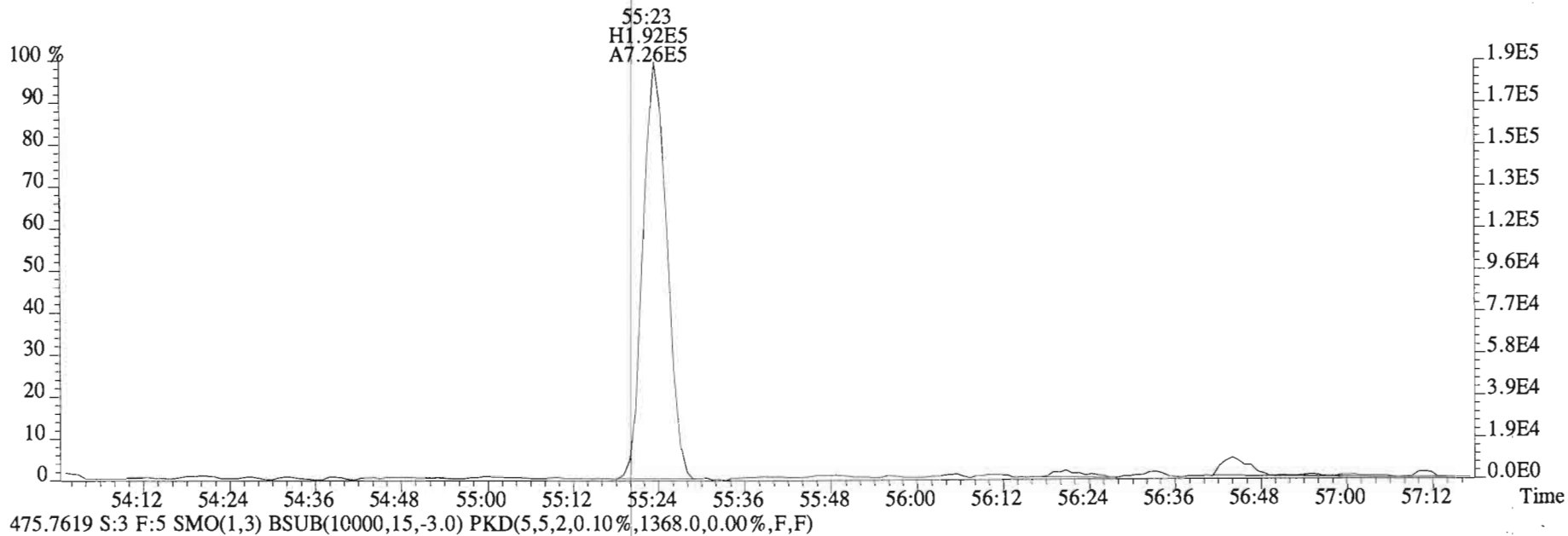
File:150227E1 #1-430 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
463.7216 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1420.0,0.00%,F,F)



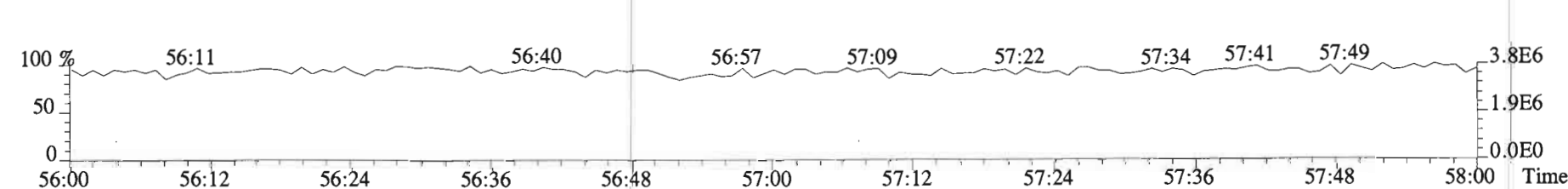
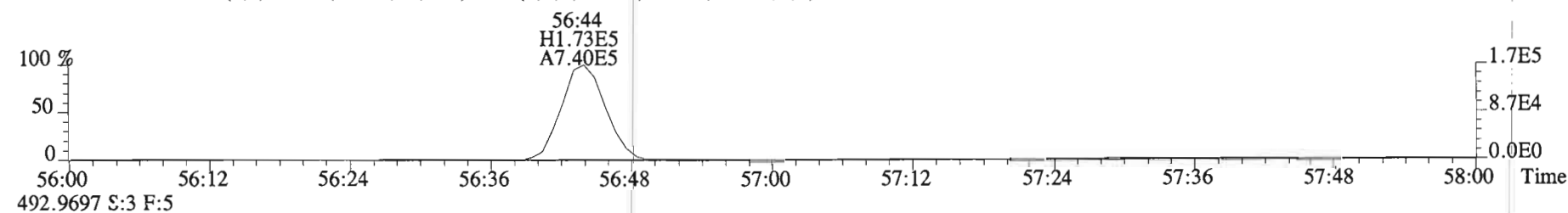
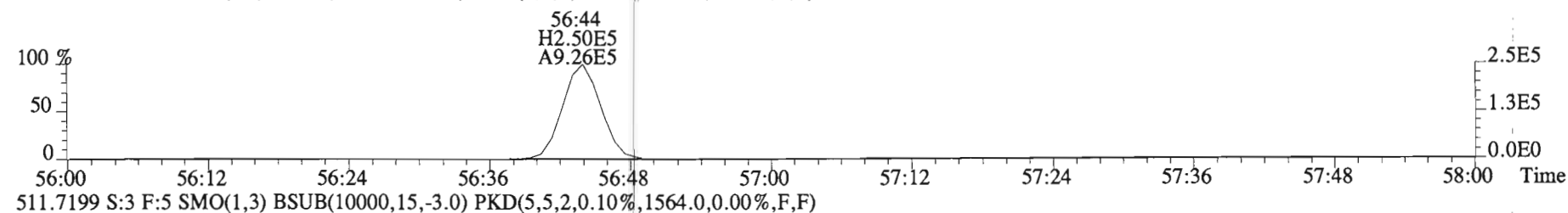
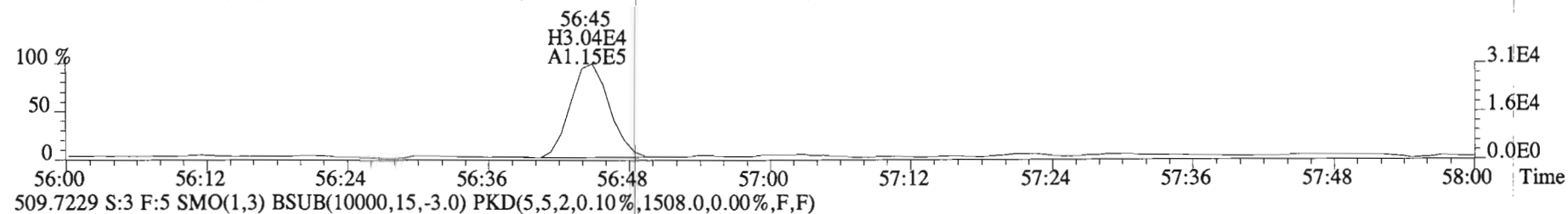
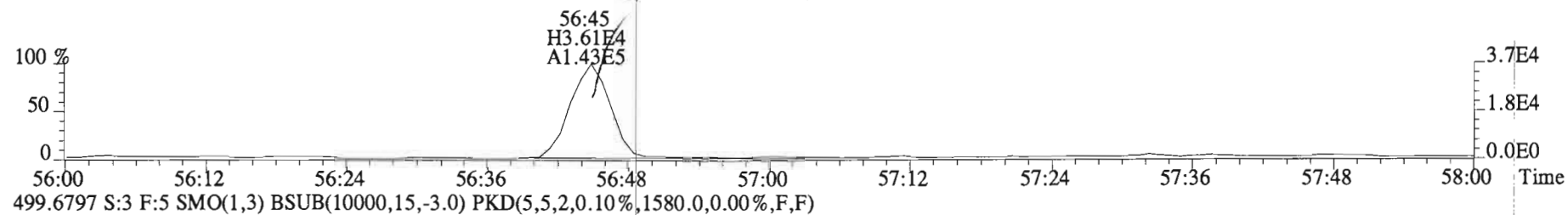
File:150227E1 #1-430 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
463.7216 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1420.0,0.00%,F,F)



File:150227E1 #1-430 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
473.7648 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1532.0,0.00%,F,F)



File:150227E1 #1-430 Acq:27-FEB-2015 14:44:54 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:1500166-03@20X ST-OF-01-20150210-W Exp:PCB_ZB1
497.6826 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(5,5,2,0.10%,1440.0,0.00%,F,F)



Client ID: Method Blank
Lab ID: B5B0069-BLK1

Filename: 150219E2 S:6 Acq:19-FEB-15 19:28:02
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.000

ConCal: ST150219E2-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	*	* n	NotF η	1.19	*		2360	2.5	5.04	*	0.996-1.006	
Mono	PCB-2	*	* n	NotF η	1.18	*		2360	2.5	4.50	*	0.984-0.994	
Mono	PCB-3	*	* n	NotF η	1.43	*		2360	2.5	3.74	*	0.996-1.006	
Di	PCB-4/10	*	* n	NotF η	1.57	*		15400	2.5	21.9	*	0.997-1.007	
Di	PCB-7/9	*	* n	NotF η	1.21	*		15400	2.5	19.2	*	0.866-0.874	
Di	PCB-6	*	* n	NotF η	1.30	*		15400	2.5	17.8	*	0.890-0.899	
Di	PCB-5/8	*	* n	NotF η	1.15	*		15400	2.5	20.2	*	0.907-0.917	
Di	PCB-14	*	* n	NotF η	1.11	*		15400	2.5	19.3	*	0.949-0.959	
Di	PCB-11	*	* n	NotF η	1.09	*		15400	2.5	19.7	*	0.995-1.005	
Di	PCB-12/13	*	* n	NotF η	1.19	*		15400	2.5	17.9	*	1.011-1.021	
Di	PCB-15	*	* n	NotF η	1.28	*		15400	2.5	16.7	*	1.023-1.033	
Tri	PCB-19	*	* n	NotF η	1.04	*		2200	2.5	4.21	*	0.996-1.006	
Tri	PCB-30	*	* n	NotF η	1.71	*		2200	2.5	2.56	*	1.032-1.042	
Tri	PCB-18	*	* n	NotF η	0.78	*		2200	2.5	3.97	*	0.949-0.959	
Tri	PCB-17	*	* n	NotF η	0.92	*		2200	2.5	3.37	*	0.956-0.966	
Tri	PCB-24/27	*	* n	NotF η	1.19	*		2200	2.5	2.61	*	0.977-0.987	
Tri	PCB-16/32	*	* n	NotF η	0.94	*		2200	2.5	3.30	*	0.995-1.005	
Tri	PCB-34	*	* n	NotF η	1.14	*		2320	2.5	2.81	*	0.955-0.965	
Tri	PCB-23	*	* n	NotF η	1.28	*		2320	2.5	2.49	*	0.959-0.969	
Tri	PCB-29	*	* n	NotF η	1.08	*		2320	2.5	2.95	*	0.967-0.977	
Tri	PCB-26	*	* n	NotF η	1.21	*		2320	2.5	2.64	*	0.974-0.984	
Tri	PCB-25	*	* n	NotF η	1.26	*		2320	2.5	2.53	*	0.979-0.989	
Tri	PCB-31	*	* n	NotF η	1.28	*		2320	2.5	2.48	*	0.992-1.002	
Tri	PCB-28	*	* n	NotF η	1.71	*		2320	2.5	1.86	*	0.995-1.005	
Tri	PCB-20/21/33	*	* n	NotF η	1.08	*		2320	2.5	2.95	*	1.017-1.027	
Tri	PCB-22	*	* n	NotF η	1.21	*		2320	2.5	2.64	*	1.032-1.042	
Tri	PCB-36	*	* n	NotF η	1.14	*		2320	2.5	2.98	*	0.928-0.938	
Tri	PCB-39	*	* n	NotF η	1.12	*		2320	2.5	3.05	*	0.943-0.953	
Tri	PCB-38	*	* n	NotF η	1.20	*		2320	2.5	2.83	*	0.966-0.976	
Tri	PCB-35	*	* n	NotF η	1.23	*		2320	2.5	2.76	*	0.982-0.992	
Tri	PCB-37	*	* n	NotF η	1.23	*		2320	2.5	2.76	*	0.995-1.005	
Tetra	PCB-54	*	* n	NotF η	1.10	*		2090	2.5	3.05	*	0.996-1.006	
Tetra	PCB-50	*	* n	NotF η	0.88	*		2090	2.5	3.82	*	1.037-1.047	
Tetra	PCB-53	*	* n	NotF η	1.06	*		2090	2.5	3.61	*	0.942-0.952	
Tetra	PCB-51	*	* n	NotF η	0.99	*		2090	2.5	3.88	*	0.952-0.962	
Tetra	PCB-45	*	* n	NotF η	0.86	*		2090	2.5	4.45	*	0.966-0.976	
Tetra	PCB-46	*	* n	NotF η	0.85	*		2090	2.5	4.54	*	0.981-0.991	

Integrations by:

Analyst: DMS

Date: 2/21/15

Reviewed by: [Signature]

Date: 2/25/15

Client ID: Method Blank
Lab ID: B5B0069-BLK1

Filename: 150219E2 S:6 Acq:19-FEB-15 19:28:02
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.000

ConCal: ST150219E2-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	*	* n	NotF η	1.28	*		2090	2.5	3.00	*	0.996-1.006	
Tetra	PCB-73	*	* n	NotF η	1.35	*		2090	2.5	2.84	*	1.000-1.010	
Tetra	PCB-43/49	*	* n	NotF η	0.99	*		2090	2.5	3.86	*	1.005-1.015	
Tetra	PCB-47	*	* n	NotF η	1.06	*		2090	2.5	3.39	*	0.996-1.006	
Tetra	PCB-48/75	*	* n	NotF η	1.23	*		2090	2.5	2.92	*	0.999-1.009	
Tetra	PCB-65	*	* n	NotF η	1.22	*		2090	2.5	2.93	*	1.008-1.018	
Tetra	PCB-62	*	* n	NotF η	1.22	*		2090	2.5	2.94	*	1.011-1.021	
Tetra	PCB-44	*	* n	NotF η	0.86	*		2090	2.5	4.17	*	1.021-1.031	
Tetra	PCB-42/59	*	* n	NotF η	1.14	*		2090	2.5	3.16	*	1.028-1.038	
Tetra	PCB-41/64/71/72	*	* n	NotF η	1.21	*		2090	2.5	2.97	*	1.046-1.056	
Tetra	PCB-68	*	* n	NotF η	1.35	*		2090	2.5	2.66	*	1.054-1.064	
Tetra	PCB-40	*	* n	NotF η	0.70	*		2090	2.5	5.12	*	1.061-1.071	
Tetra	PCB-57	*	* n	NotF η	0.98	*		2090	2.5	2.94	*	0.965-0.975	
Tetra	PCB-67	*	* n	NotF η	1.11	*		2090	2.5	2.60	*	0.974-0.984	
Tetra	PCB-58	*	* n	NotF η	0.93	*		2090	2.5	3.11	*	0.977-0.987	
Tetra	PCB-63	*	* n	NotF η	0.95	*		2090	2.5	3.03	*	0.982-0.992	
Tetra	PCB-74	*	* n	NotF η	1.24	*		2090	2.5	2.32	*	0.990-1.000	
Tetra	PCB-61/70	*	* n	NotF η	0.95	*		2090	2.5	3.02	*	0.995-1.005	
Tetra	PCB-76/66	*	* n	NotF η	1.04	*		2090	2.5	2.76	*	1.001-1.011	
Tetra	PCB-80	*	* n	NotF η	1.19	*		2090	2.5	2.24	*	0.996-1.006	
Tetra	PCB-55	*	* n	NotF η	1.04	*		2090	2.5	2.56	*	1.005-1.015	
Tetra	PCB-56/60	*	* n	NotF η	1.01	*		2090	2.5	2.64	*	1.019-1.029	
Tetra	PCB-79	*	* n	NotF η	1.08	*		2090	2.5	2.47	*	1.048-1.058	
Tetra	PCB-78	*	* n	NotF η	1.27	*		2090	2.5	2.35	*	0.982-0.992	
Tetra	PCB-81	*	* n	NotF η	1.33	*		2090	2.5	2.24	*	0.995-1.005	
Tetra	PCB-77	*	* n	NotF η	1.10	*		2090	2.5	2.61	*	0.995-1.005	
Penta	PCB-104	*	* n	NotF η	1.18	*		1810	2.5	5.74	*	0.996-1.006	
Penta	PCB-96	*	* n	NotF η	1.14	*		1810	2.5	5.96	*	1.034-1.044	
Penta	PCB-103	*	* n	NotF η	0.96	*		1810	2.5	7.09	*	1.050-1.060	
Penta	PCB-100	*	* n	NotF η	0.94	*		1810	2.5	7.24	*	1.061-1.071	
Penta	PCB-94	*	* n	NotF η	1.06	*		1810	2.5	8.08	*	0.980-0.990	
Penta	PCB-95/98/102	*	* n	NotF η	1.22	*		1810	2.5	6.97	*	0.995-1.005	
Penta	PCB-93	*	* n	NotF η	0.84	*		1810	2.5	10.1	*	0.997-1.007	
Penta	PCB-88/91	*	* n	NotF η	1.12	*		1810	2.5	7.65	*	1.005-1.015	
Penta	PCB-121	*	* n	NotF η	1.62	*		1810	2.5	5.29	*	1.009-1.019	
Penta	PCB-84/92	*	* n	NotF η	1.05	*		1810	2.5	7.35	*	0.985-0.995	
Penta	PCB-89	*	* n	NotF η	1.13	*		1810	2.5	6.80	*	0.991-1.001	

Analyst: Dms

Date: 2/21/15

Client ID: Method Blank
Lab ID: B5B0069-BLK1

Filename: 150219E2 S:6 Acq:19-FEB-15 19:28:02
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.000

ConCal: ST150219E2-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	*	* n	NotF η	1.10	*		1810	2.5	6.98	*	0.995-1.005	
Penta	PCB-113	*	* n	NotF η	1.41	*		1810	2.5	5.45	*	1.002-1.012	
Penta	PCB-99	*	* n	NotF η	1.34	*		1810	2.5	5.75	*	1.004-1.014	
Penta	PCB-119	*	* n	NotF η	1.53	*		1810	2.5	5.51	*	0.982-0.992	
Penta	PCB-108/112	*	* n	NotF η	1.28	*		1810	2.5	6.60	*	0.986-0.996	
Penta	PCB-83	*	* n	NotF η	1.52	*		1810	2.5	5.56	*	0.990-1.000	
Penta	PCB-97	*	* n	NotF η	1.18	*		1810	2.5	7.14	*	0.995-1.005	
Penta	PCB-86	*	* n	NotF η	0.84	*		1810	2.5	10.0	*	0.999-1.009	
Penta	PCB-87/117/125	*	* n	NotF η	1.55	*		1810	2.5	5.45	*	1.002-1.012	
Penta	PCB-111/115	*	* n	NotF η	1.63	*		1810	2.5	5.17	*	1.006-1.016	
Penta	PCB-85/116	*	* n	NotF η	1.30	*		1810	2.5	6.49	*	1.010-1.020	
Penta	PCB-120	*	* n	NotF η	1.68	*		1810	2.5	5.04	*	1.016-1.026	
Penta	PCB-110	*	* n	NotF η	1.56	*		1810	2.5	5.43	*	1.020-1.030	
Penta	PCB-82	*	* n	NotF η	0.76	*		1810	2.5	8.47	*	0.971-0.981	
Penta	PCB-124	*	* n	NotF η	1.47	*		1810	2.5	4.37	*	0.988-0.998	
Penta	PCB-107/109	*	* n	NotF η	1.32	*		1810	2.5	4.86	*	0.991-1.001	
Penta	PCB-123	*	* n	NotF η	1.17	*		1810	2.5	5.50	*	0.996-1.006	
Penta	PCB-106/118	*	* n	NotF η	1.17	*		1810	2.5	5.36	*	0.996-1.006	
Penta	PCB-114	*	* n	NotF η	1.30	*		2130	2.5	3.74	*	0.995-1.005	
Penta	PCB-122	*	* n	NotF η	1.12	*		2130	2.5	4.33	*	0.999-1.009	
Penta	PCB-105	*	* n	NotF η	1.30	*		2130	2.5	3.71	*	0.995-1.005	
Penta	PCB-127	*	* n	NotF η	1.33	*		2130	2.5	3.32	*	0.996-1.006	
Penta	PCB-126	*	* n	NotF η	1.18	*		2130	2.5	4.19	*	0.995-1.005	
Hexa	PCB-155	*	* n	NotF η	1.11	*		1320	2.5	5.26	*	0.966-1.006	
Hexa	PCB-150	*	* n	NotF η	1.00	*		1320	2.5	5.85	*	1.030-1.040	
Hexa	PCB-152	*	* n	NotF η	1.12	*		1320	2.5	5.24	*	1.043-1.053	
Hexa	PCB-145	*	* n	NotF η	1.20	*		1320	2.5	4.87	*	1.055-1.065	
Hexa	PCB-136	*	* n	NotF η	1.18	*		1320	2.5	4.96	*	1.064-1.074	
Hexa	PCB-148	*	* n	NotF η	0.74	*		1320	2.5	7.85	*	1.066-1.076	
Hexa	PCB-154	*	* n	NotF η	0.86	*		1320	2.5	6.81	*	1.080-1.090	
Hexa	PCB-151	*	* n	NotF η	0.75	*		1320	2.5	7.83	*	1.097-1.107	
Hexa	PCB-135	*	* n	NotF η	0.79	*		1320	2.5	7.37	*	1.103-1.113	
Hexa	PCB-144	*	* n	NotF η	0.76	*		1320	2.5	7.67	*	1.105-1.117	
Hexa	PCB-147	*	* n	NotF η	0.82	*		1320	2.5	7.13	*	1.109-1.121	
Hexa	PCB-139/149	*	* n	NotF η	0.76	*		1320	2.5	7.67	*	1.116-1.128	
Hexa	PCB-140	*	* n	NotF η	0.72	*		1320	2.5	8.09	*	1.121-1.133	
Hexa	PCB-134/143	*	* n	NotF η	0.92	*		1770	2.5	4.46	*	0.970-0.980	

Analyst: DMS

Date: 2/21/15

Client ID: Method Blank
Lab ID: B5B0069-BLK1

Filename: 150219E2 S:6 Acq:19-FEB-15 19:28:02
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.000

ConCal: ST150219E2-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	*	* n	NotF η	0.82	*		1770	2.5	5.00	*	0.977-0.987	
Hexa	PCB-131	*	* n	NotF η	0.91	*		1770	2.5	4.51	*	0.981-0.991	
Hexa	PCB-146/165	*	* n	NotF η	1.25	*		1770	2.5	3.28	*	0.986-0.996	
Hexa	PCB-132/161	*	* n	NotF η	1.10	*		1770	2.5	3.70	*	0.992-1.002	
Hexa	PCB-153	*	* n	NotF η	1.25	*		1770	2.5	3.28	*	0.995-1.005	
Hexa	PCB-168	*	* n	NotF η	1.45	*		1770	2.5	2.82	*	1.001-1.011	
Hexa	PCB-141	*	* n	NotF η	1.09	*		1770	2.5	3.98	*	0.995-1.005	
Hexa	PCB-137	*	* n	NotF η	1.06	*		1770	2.5	4.07	*	1.004-1.014	
Hexa	PCB-130	*	* n	NotF η	0.96	*		1770	2.5	4.48	*	1.006-1.016	
Hexa	PCB-138/163/164	*	* n	NotF η	1.29	*		1770	2.5	3.41	*	0.996-1.006	
Hexa	PCB-158/160	*	* n	NotF η	1.34	*		1770	2.5	3.28	*	1.001-1.011	
Hexa	PCB-129	*	* n	NotF η	0.85	*		1770	2.5	5.16	*	1.007-1.017	
Hexa	PCB-166	*	* n	NotF η	1.19	*		1770	2.5	3.16	*	0.988-0.998	
Hexa	PCB-159	*	* n	NotF η	1.11	*		1770	2.5	3.37	*	0.996-1.006	
Hexa	PCB-128/162	*	* n	NotF η	1.05	*		1770	2.5	3.58	*	1.002-1.012	
Hexa	PCB-167	*	* n	NotF η	1.20	*		1770	2.5	2.90	*	0.995-1.005	
Hexa	PCB-156	*	* n	NotF η	1.14	*		1770	2.5	3.20	*	0.996-1.006	
Hexa	PCB-157	*	* n	NotF η	1.16	*		1770	2.5	2.97	*	0.995-1.005	
Hexa	PCB-169	*	* n	NotF η	1.12	*		1770	2.5	2.79	*	0.995-1.005	
Hepta	PCB-188	*	* n	NotF η	1.58	*		1680	2.5	2.24	*	0.996-1.006	
Hepta	PCB-184	*	* n	NotF η	1.63	*		1680	2.5	2.17	*	1.006-1.016	
Hepta	PCB-179	*	* n	NotF η	1.30	*		1680	2.5	2.72	*	1.024-1.034	
Hepta	PCB-176	*	* n	NotF η	1.48	*		1680	2.5	2.40	*	1.035-1.045	
Hepta	PCB-186	*	* n	NotF η	1.45	*		1680	2.5	2.44	*	1.050-1.060	
Hepta	PCB-178	*	* n	NotF η	1.03	*		1680	2.5	3.43	*	1.061-1.071	
Hepta	PCB-175	*	* n	NotF η	1.01	*		1680	2.5	3.50	*	1.069-1.079	
Hepta	PCB-182/187	*	* n	NotF η	1.25	*		1680	2.5	2.83	*	1.073-1.083	
Hepta	PCB-183	*	* n	NotF η	1.21	*		1680	2.5	2.93	*	1.081-1.091	
Hepta	PCB-185	*	* n	NotF η	1.80	*		1680	2.5	2.59	*	0.951-0.961	
Hepta	PCB-174	*	* n	NotF η	1.38	*		1680	2.5	3.38	*	0.958-0.968	
Hepta	PCB-181	*	* n	NotF η	1.38	*		1680	2.5	3.38	*	0.960-0.970	
Hepta	PCB-177	*	* n	NotF η	1.26	*		1680	2.5	3.71	*	0.963-0.973	
Hepta	PCB-171	*	* n	NotF η	1.58	*		1680	2.5	2.95	*	0.970-0.980	
Hepta	PCB-173	*	* n	NotF η	1.11	*		1680	2.5	4.20	*	0.978-0.988	
Hepta	PCB-172	*	* n	NotF η	1.63	*		1680	2.5	2.85	*	0.987-0.997	
Hepta	PCB-192	*	* n	NotF η	1.74	*		1680	2.5	2.68	*	0.991-1.001	
Hepta	PCB-180	*	* n	NotF η	1.34	*		1680	2.5	3.47	*	0.995-1.005	

Analyst: DMS

Date: 2/21/15

Client ID: Method Blank
Lab ID: B5B0069-BLK1

Filename: 150219E2 S:6 Acq:19-FEB-15 19:28:02
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.000

ConCal: ST150219E2-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	*	* n	NotF η	1.72	*		1680	2.5	2.72	*	0.999-1.009	
Hepta	PCB-191	*	* n	NotF η	1.69	*		1680	2.5	2.75	*	1.004-1.014	
Hepta	PCB-170	*	* n	NotF η	1.60	*		1680	2.5	3.04	*	0.995-1.005	
Hepta	PCB-190	*	* n	NotF η	2.21	*		1680	2.5	2.20	*	0.998-1.008	
Hepta	PCB-189	*	* n	NotF η	1.55	*		1680	2.5	2.33	*	0.995-1.005	
Octa	PCB-202	*	* n	NotF η	1.08	*		1740	2.5	5.21	*	0.995-1.005	
Octa	PCB-201	*	* n	NotF η	1.15	*		1740	2.5	4.91	*	1.005-1.015	
Octa	PCB-204	*	* n	NotF η	1.14	*		1740	2.5	4.96	*	1.008-1.018	
Octa	PCB-197	*	* n	NotF η	1.07	*		1740	2.5	5.25	*	1.015-1.025	
Octa	PCB-200	*	* n	NotF η	1.06	*		1740	2.5	5.31	*	1.032-1.044	
Octa	PCB-198	*	* n	NotF η	0.76	*		1740	2.5	7.47	*	1.059-1.069	
Octa	PCB-199	*	* n	NotF η	0.80	*		1740	2.5	7.08	*	1.061-1.071	
Octa	PCB-196/203	*	* n	NotF η	0.80	*		1740	2.5	7.04	*	1.066-1.076	
Octa	PCB-195	*	* n	NotF η	1.23	*		1770	2.5	2.60	*	0.979-0.989	
Octa	PCB-194	*	* n	NotF η	1.21	*		1770	2.5	2.63	*	0.995-1.005	
Octa	PCB-205	*	* n	NotF η	1.54	*		1770	2.5	2.07	*	1.001-1.011	
Nona	PCB-208	*	* n	NotF η	0.93	*		1480	2.5	1.93	*	0.995-1.005	
Nona	PCB-207	*	* n	NotF η	1.08	*		1480	2.5	1.65	*	1.001-1.011	
Nona	PCB-206	*	* n	NotF η	1.02	*		1480	2.5	3.09	*	0.995-1.005	
Deca	PCB-209	5.76e+04	1.05 y	56:47	1.17	5.85		*	2.5	*	1.000	0.995-1.005	

Analyst: Dmj

Date: 2/24/15

Client ID: Method Blank
Lab ID: B5B0069-BLK1

Filename: 150219E2 S:6 Acq:19-FEB-15 19:28:02
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.0000 EndCAL: NA

ConCal: ST150219E2-1

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	*	* n	NotFnd	1.21	* Sum:0.00000
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	5.76e+04	1.05 y	56:47	1.17	5.85102

Total PCB Conc:5.85101500000

Integrations

by

Analyst: *Dms*

Date: *2/21/15*

Client ID: Method Blank
Lab ID: B5B0069-BLK1

Filename: 150219E2 S:6 Acq:19-FEB-15 19:28:02
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:2.0000

ConCal: ST150219E2-1
EndCAL: NA

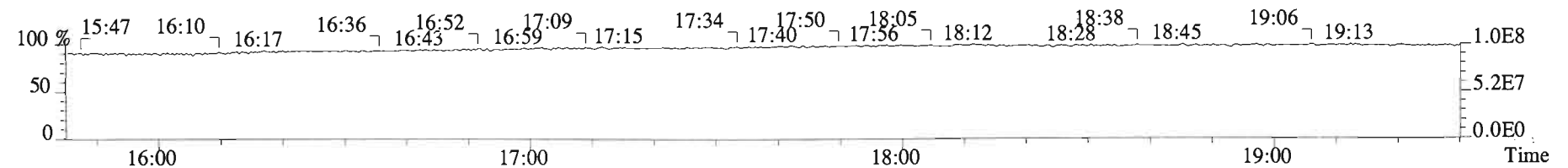
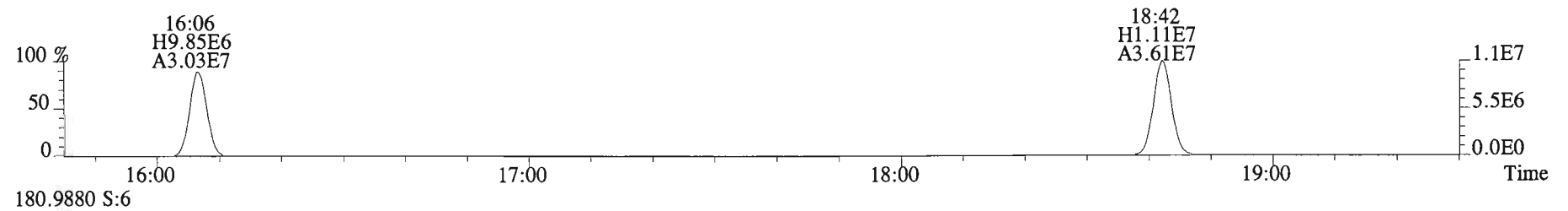
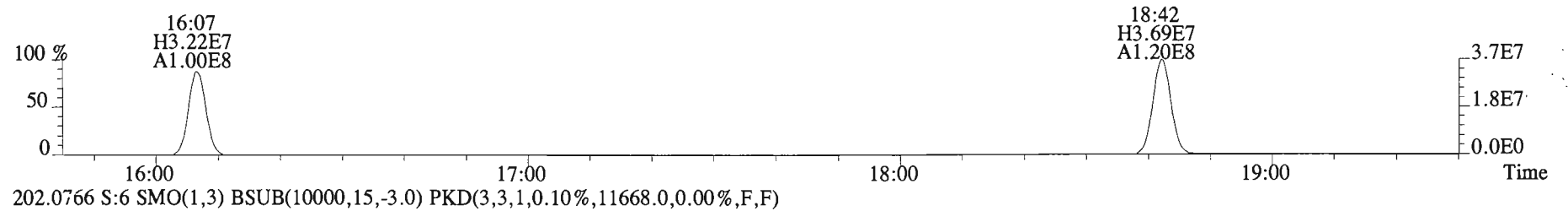
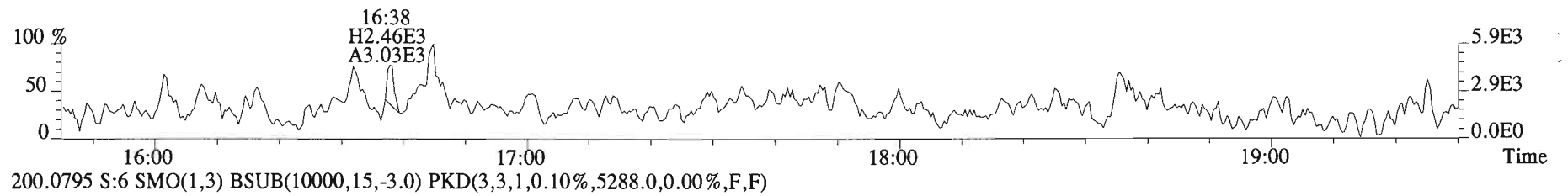
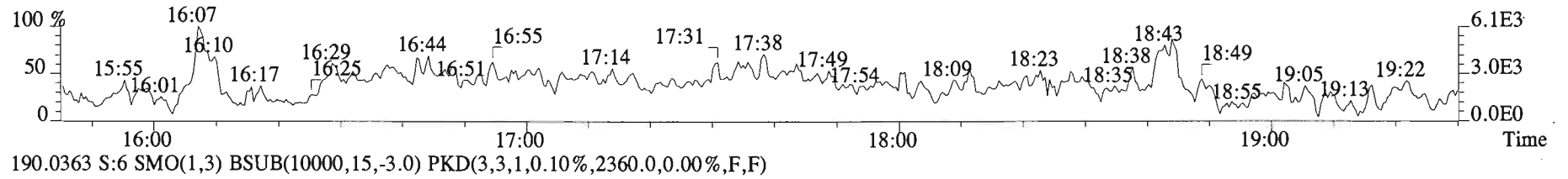
Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.31e+08	3.30	y	0.87	16:07	0.623	0.629-0.635	5620	56.2											
13C-PCB-3	1.56e+08	3.33	y	0.91	18:42	0.722	0.725-0.733	6430	64.3		13C-PCB-79	1.85e+08	0.81	y	1.02	37:45	1.029	1.023-1.034	8690	86.9
13C-PCB-4	1.02e+08	1.59	y	0.59	20:02	0.774	0.775-0.783	6530	65.3		13C-PCB-178	6.06e+07	0.47	y	0.61	45:34	0.984	0.979-0.990	7680	76.8
13C-PCB-9	1.57e+08	1.58	y	0.90	21:48	0.842	0.842-0.850	6560	65.6											
13C-PCB-11	1.79e+08	1.56	y	0.94	25:10	0.972	0.968-0.978	7180	71.8											
13C-PCB-19	9.53e+07	1.08	y	0.53	24:10	0.934	0.930-0.940	6730	67.3											
13C-PCB-28	1.57e+08	1.05	y	0.93	29:01	1.003	0.999-1.009	6840	68.4		13C-PCB-79	1.85e+08	0.81	y	1.10	37:45	0.969	0.964-0.974	10300	103
13C-PCB-32	1.47e+08	1.10	y	0.80	27:04	1.046	1.040-1.050	6930	69.3		13C-PCB-178	6.06e+07	0.47	y	0.90	45:34	0.925	0.920-0.930	10300	103
13C-PCB-37	1.76e+08	1.07	y	0.84	32:54	1.138	1.131-1.143	8510	85.1											
13C-PCB-47	1.23e+08	0.79	y	0.81	31:56	0.871	0.866-0.874	7190	71.9											
13C-PCB-52	1.17e+08	0.80	y	0.77	31:25	0.856	0.853-0.861	7210	72.1											
13C-PCB-54	1.31e+08	0.82	y	0.97	27:54	0.761	0.758-0.766	6420	64.2											
13C-PCB-70	1.66e+08	0.81	y	1.00	35:27	0.966	0.961-0.971	7910	79.1											
13C-PCB-77	1.71e+08	0.80	y	0.94	39:34	1.079	1.073-1.083	8620	86.2											
13C-PCB-80	1.76e+08	0.82	y	1.03	35:51	0.977	0.972-0.982	8150	81.5											
13C-PCB-81	1.63e+08	0.80	y	0.92	38:58	1.062	1.057-1.067	8450	84.5											
13C-PCB-95	6.87e+07	1.61	y	0.74	35:44	0.913	0.908-0.918	7920	79.2											
13C-PCB-97	7.03e+07	1.66	y	0.70	38:44	0.989	0.984-0.994	8520	85.2											
13C-PCB-101	7.68e+07	1.65	y	0.78	37:25	0.956	0.951-0.961	8370	83.7											
13C-PCB-104	8.69e+07	1.64	y	1.00	32:35	0.832	0.828-0.836	7410	74.1											
13C-PCB-105	1.52e+08	1.59	y	1.37	43:00	0.929	0.924-0.934	8690	86.9											
13C-PCB-114	1.50e+08	1.61	y	1.36	42:08	0.910	0.905-0.915	8540	85.4											
13C-PCB-118	9.78e+07	1.64	y	0.96	41:28	1.059	1.054-1.064	8710	87.1											
13C-PCB-123	9.30e+07	1.62	y	0.89	41:17	1.054	1.050-1.060	8890	88.9											
13C-PCB-126	1.47e+08	1.57	y	1.31	45:14	0.977	0.972-0.982	8750	87.5											
13C-PCB-127	1.63e+08	1.57	y	1.47	43:20	0.936	0.931-0.941	8590	85.9											
13C-PCB-138	1.19e+08	1.28	y	1.10	44:44	0.966	0.961-0.971	8420	84.2											
13C-PCB-141	1.16e+08	1.28	y	1.07	43:53	0.948	0.943-0.953	8410	84.1											
13C-PCB-153	1.24e+08	1.29	y	1.15	43:09	0.932	0.927-0.937	8410	84.1											
13C-PCB-155	6.33e+07	1.29	y	0.84	36:58	0.944	0.939-0.949	6440	64.4											
13C-PCB-156	1.42e+08	1.29	y	1.30	48:00	1.037	1.032-1.042	8500	85.0											
13C-PCB-157	1.50e+08	1.30	y	1.36	48:16	1.042	1.038-1.048	8610	86.1											
13C-PCB-159	1.36e+08	1.28	y	1.25	46:01	0.994	0.989-0.999	8470	84.7											
13C-PCB-167	1.49e+08	1.27	y	1.35	46:42	1.009	1.004-1.014	8570	85.7											
13C-PCB-169	1.47e+08	1.25	y	1.29	50:24	1.089	1.083-1.093	8890	88.9											
13C-PCB-170	5.44e+07	0.45	y	0.54	50:45	1.096	1.089-1.101	7800	78.0											
13C-PCB-180	6.57e+07	0.46	y	0.68	49:17	1.064	1.060-1.070	7480	74.8											
13C-PCB-188	8.67e+07	0.46	y	0.92	42:47	0.924	0.919-0.929	7360	73.6											
13C-PCB-189	7.11e+07	0.46	y	0.72	52:13	1.128	1.120-1.132	7730	77.3											
13C-PCB-194	9.59e+07	0.91	y	0.80	53:44	0.995	0.990-1.000	8640	86.4											
13C-PCB-202	7.16e+07	0.93	y	0.84	48:13	1.041	1.036-1.046	6650	66.5											
13C-PCB-206	8.58e+07	0.81	y	0.65	55:25	1.026	1.021-1.031	9480	94.8											
13C-PCB-208	1.29e+08	0.79	y	1.08	53:00	0.981	0.976-0.986	8590	85.9											
13C-PCB-209	8.41e+07	1.21	y	0.61	56:46	1.051	1.045-1.055	9900	99.0											

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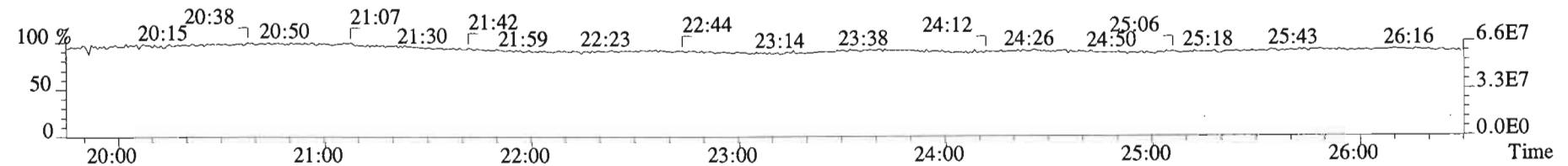
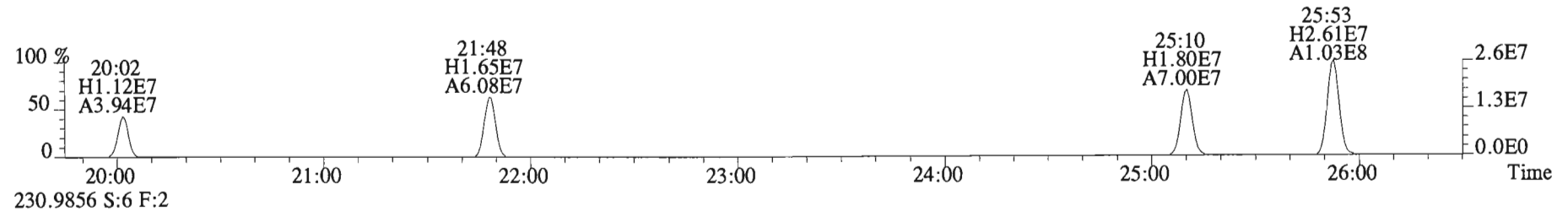
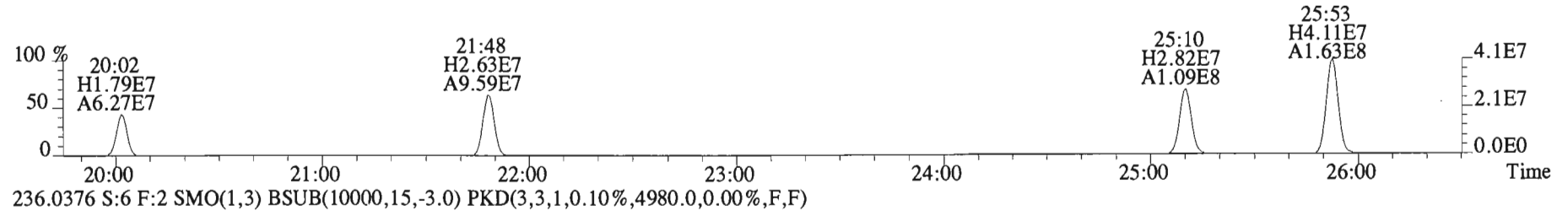
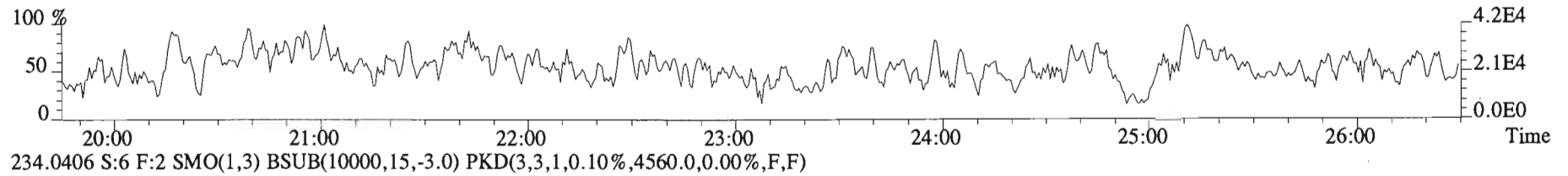
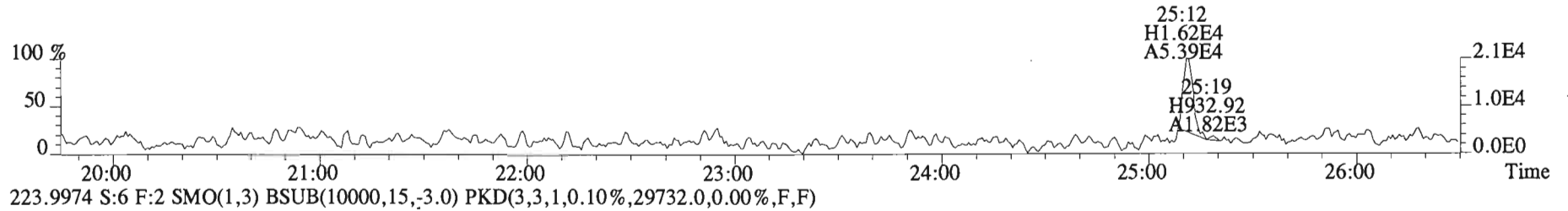
Analyst: Dms

Date: 2/21/15

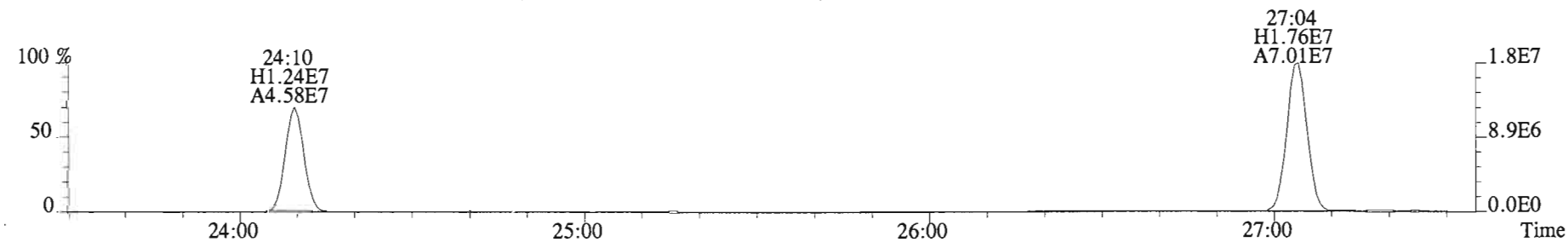
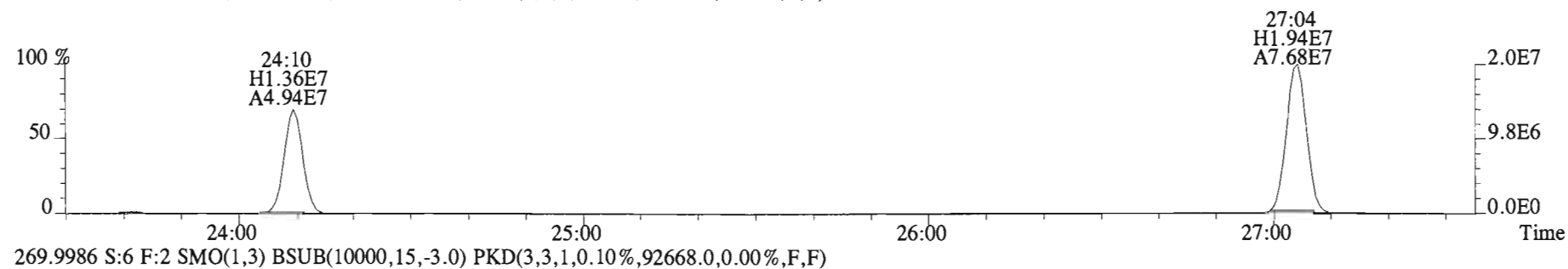
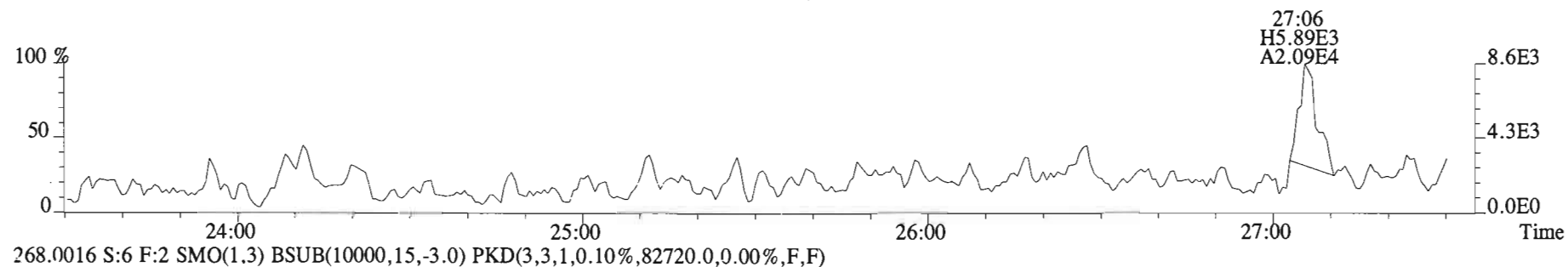
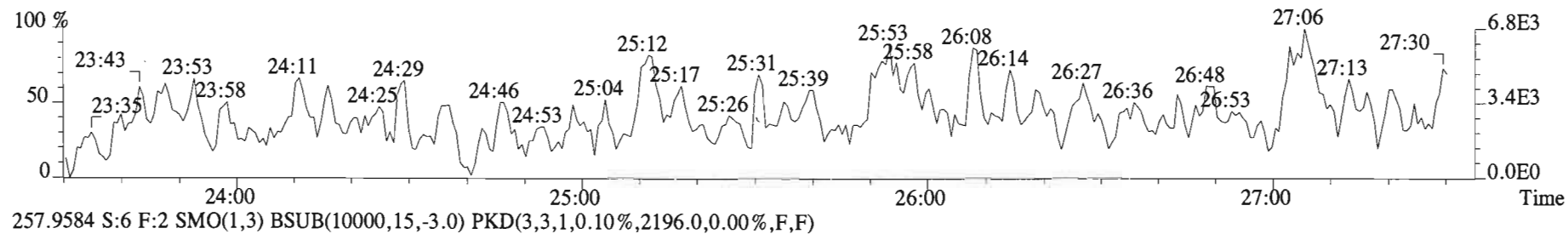
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 188.0393 S:6 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2792.0,0.00%,F,F)



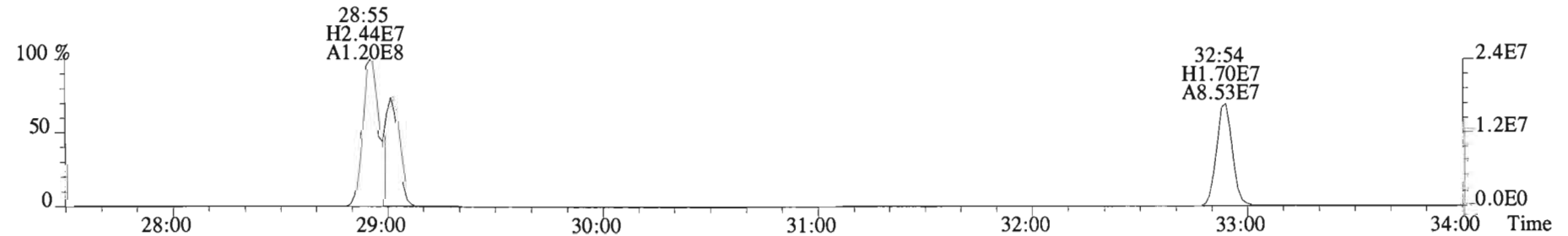
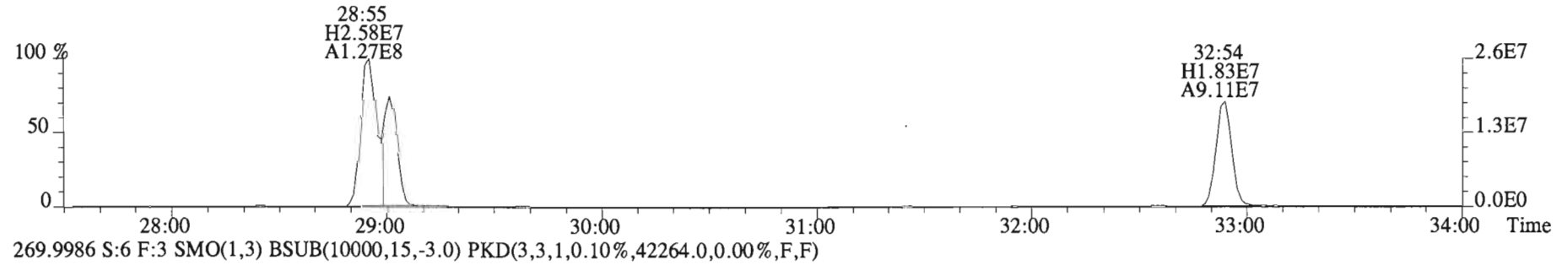
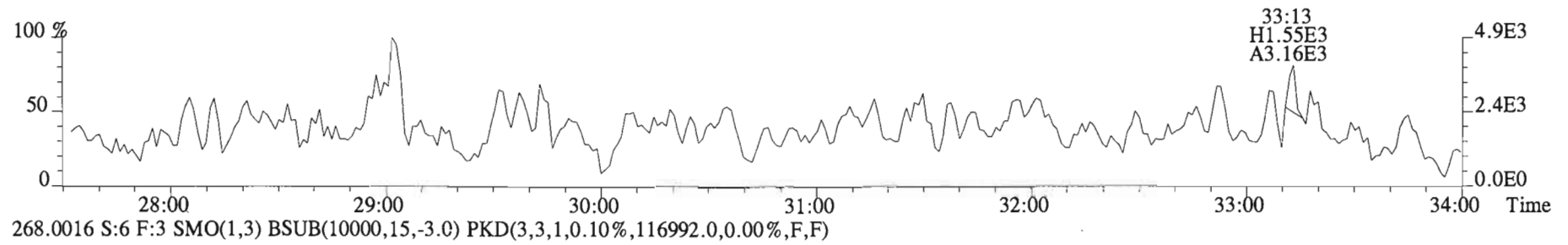
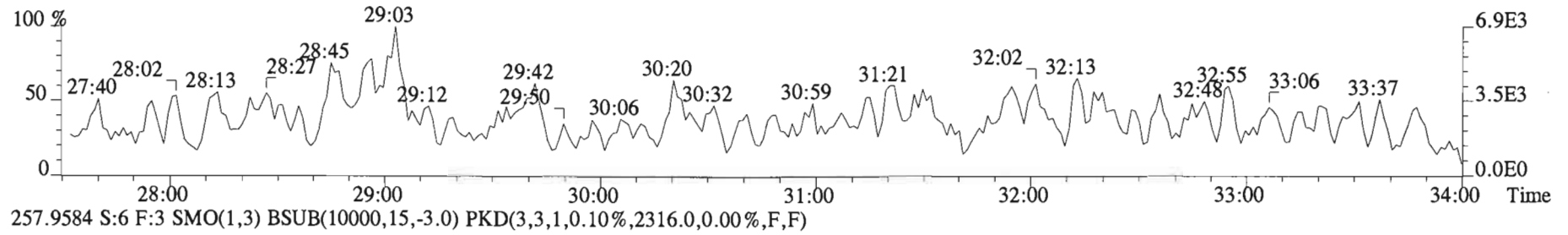
File:150219E2 #1-757 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
 222.0003 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3708.0,0.00%,F,F)



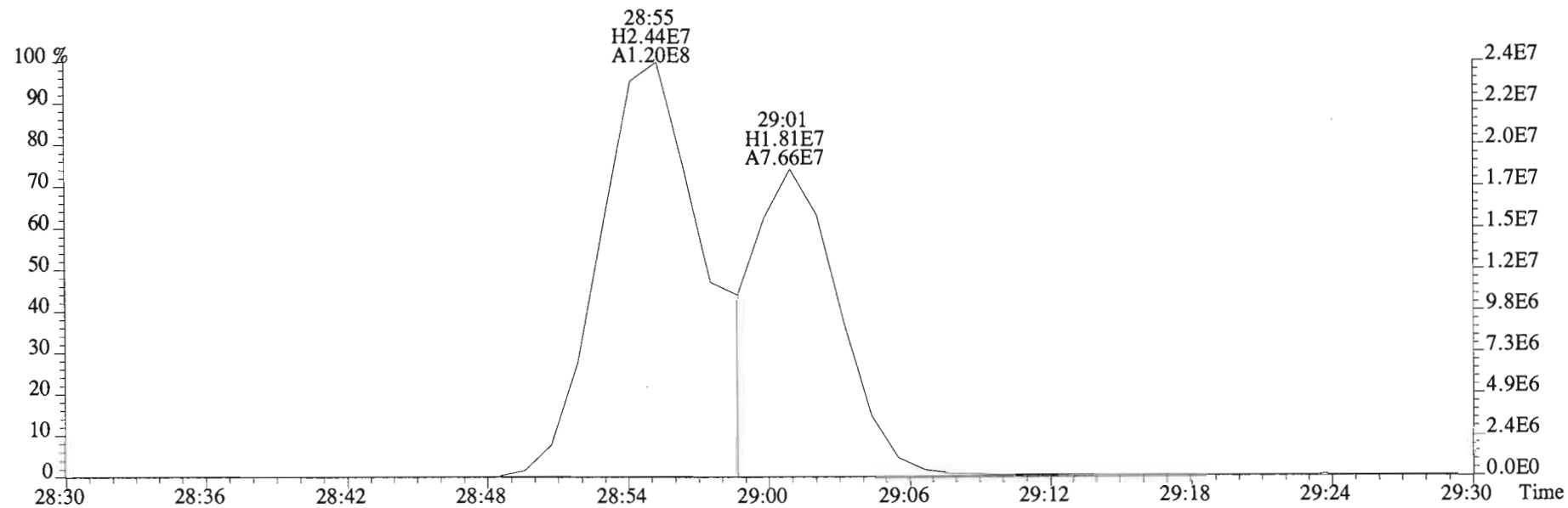
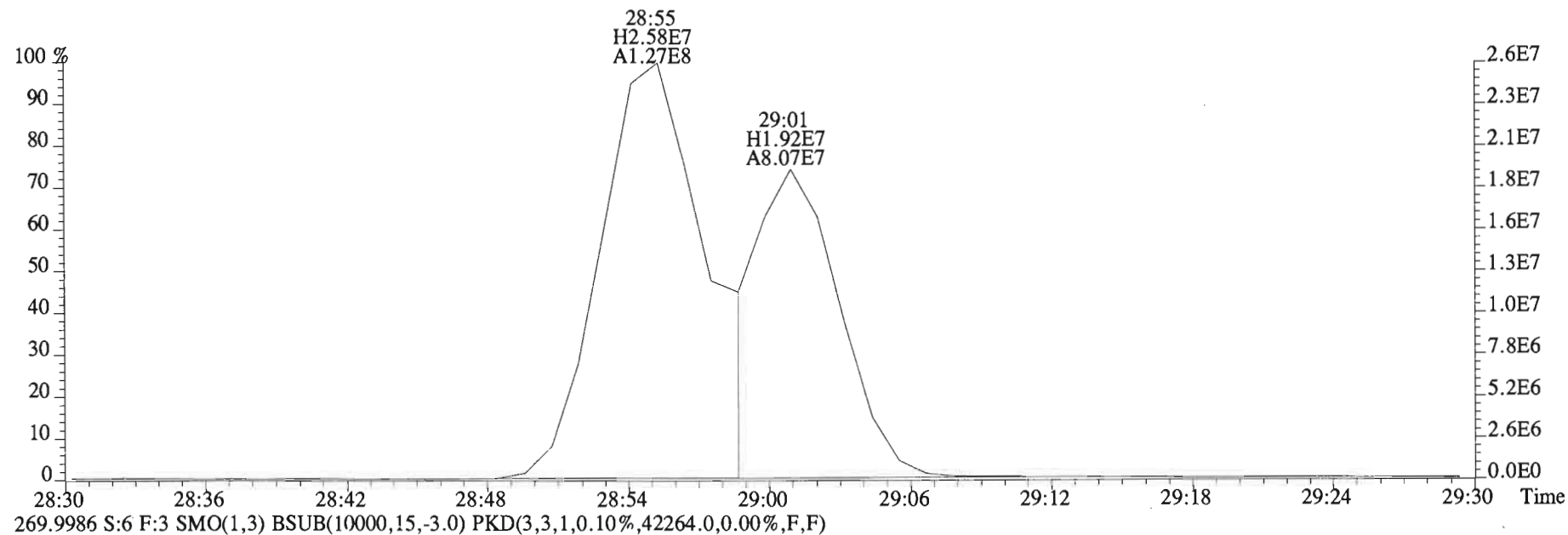
File:150219E2 #1-757 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
 255.9613 S:6 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3412.0,0.00%,F,F)



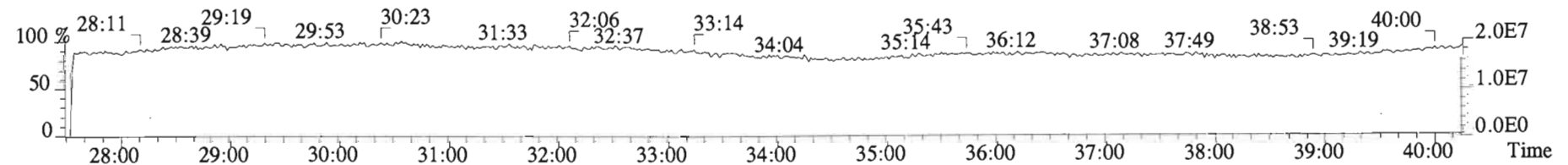
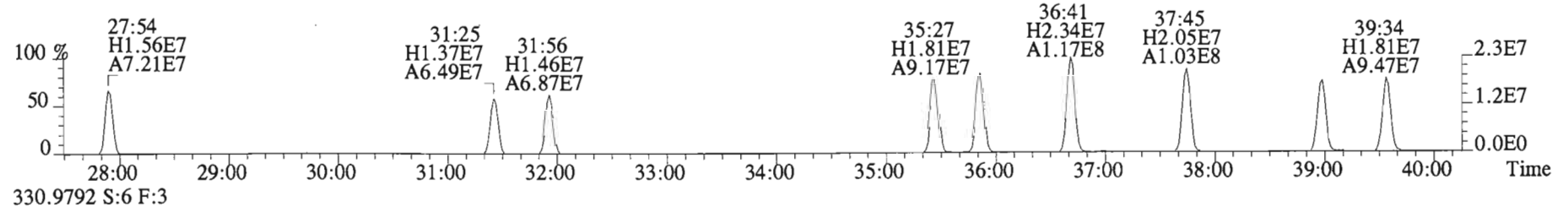
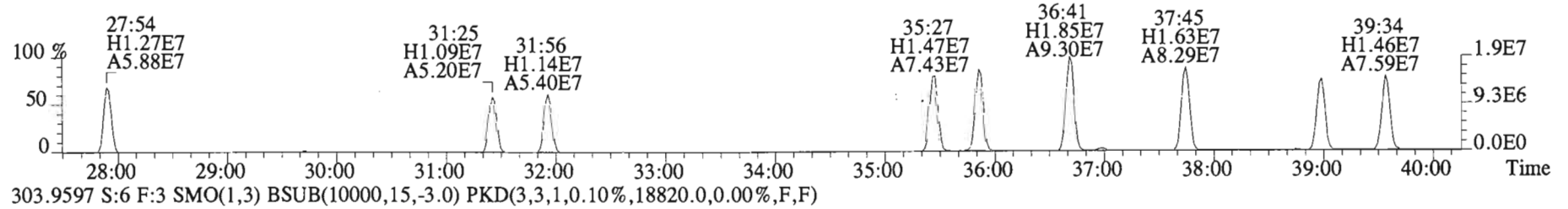
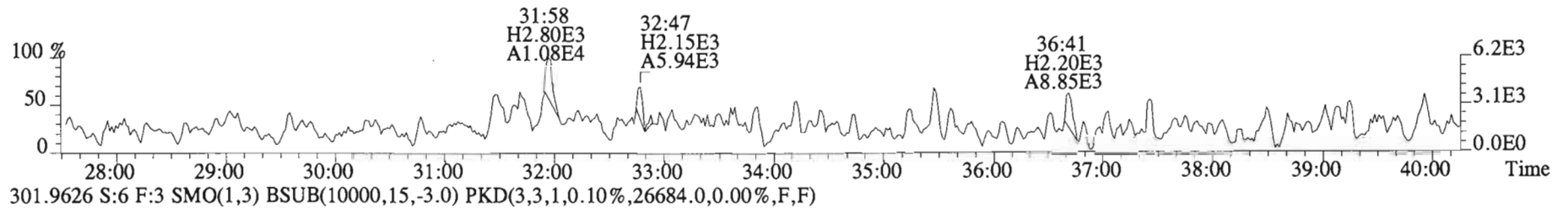
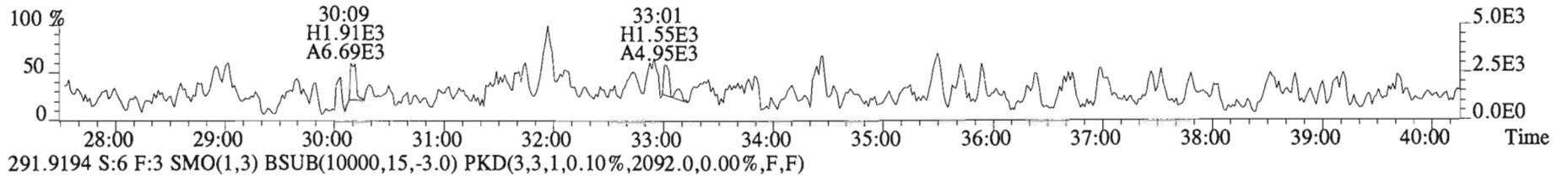
File:150219E2 #1-758 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
255.9613 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3148.0,0.00%,F,F)



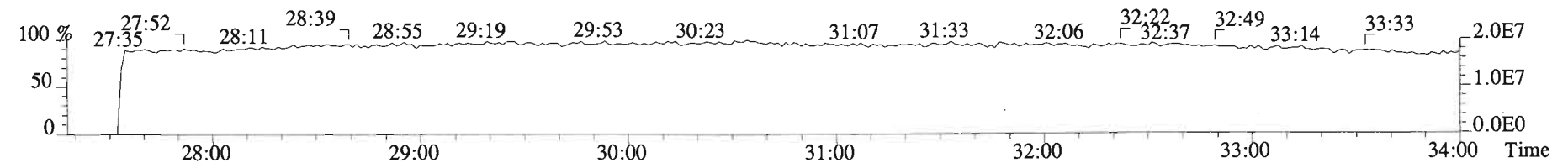
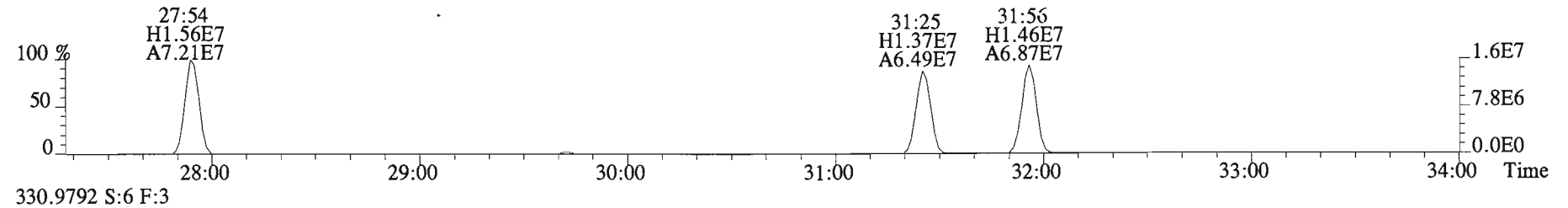
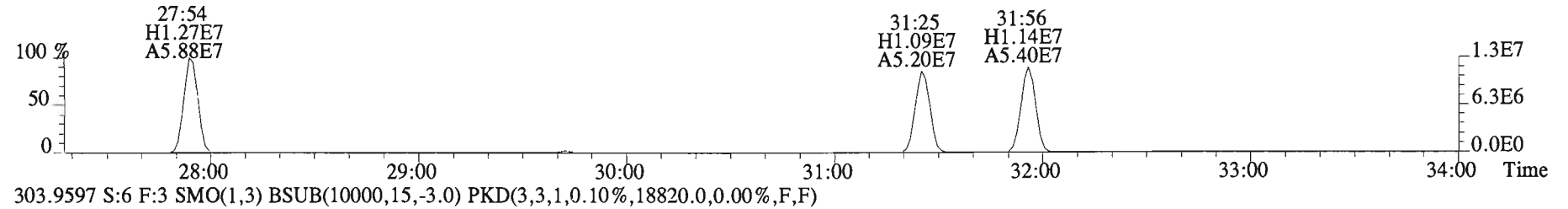
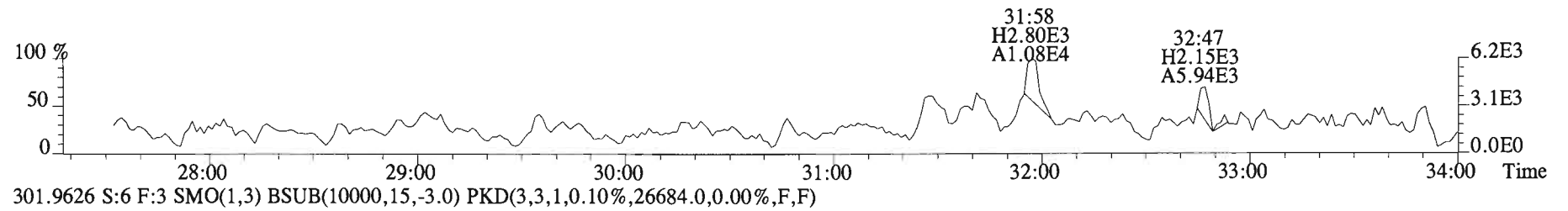
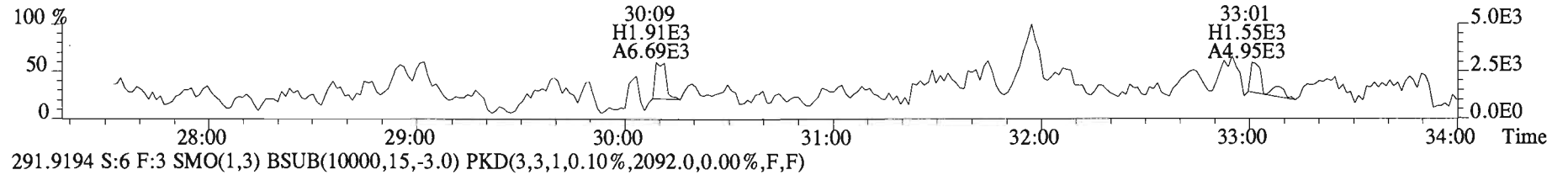
File:150219E2 #1-758 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
268.0016 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,116992.0,0.00%,F,F)



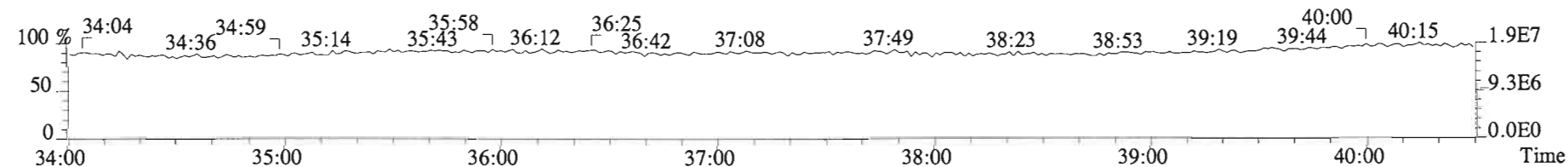
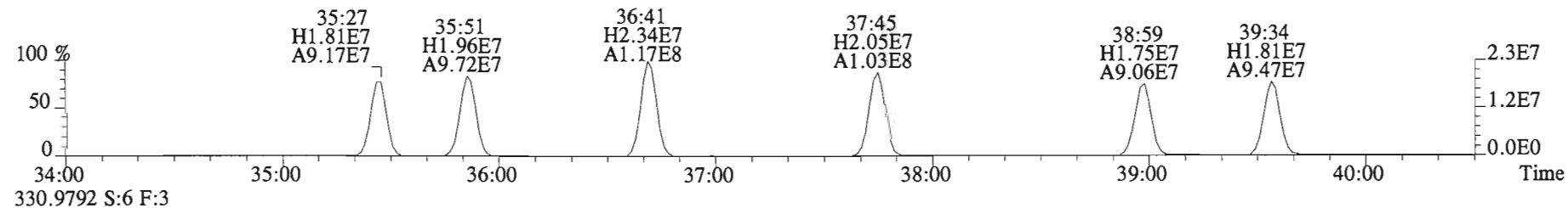
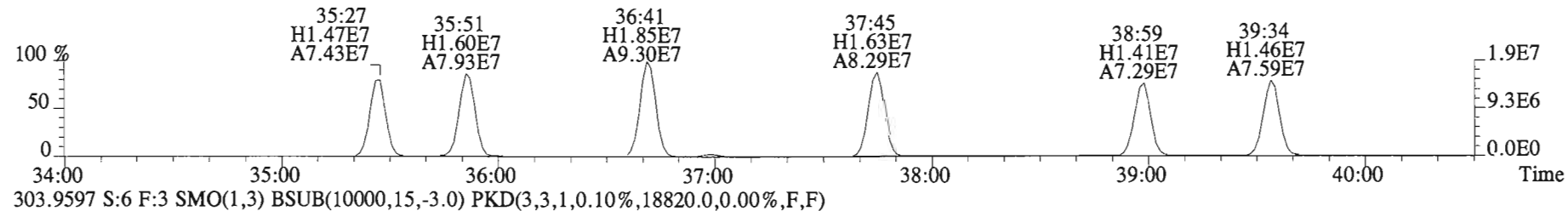
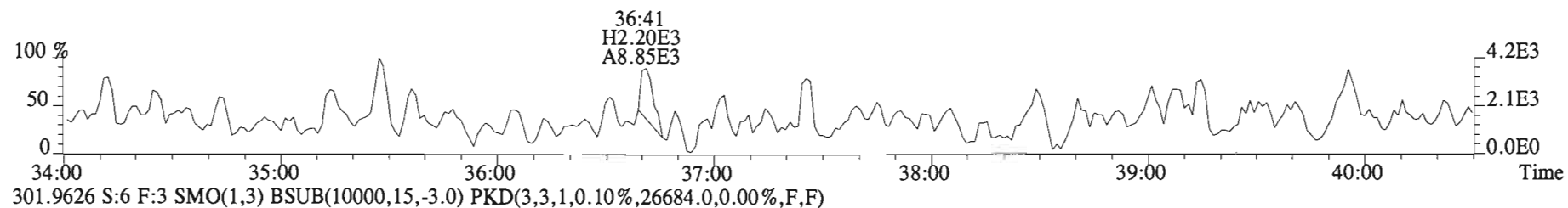
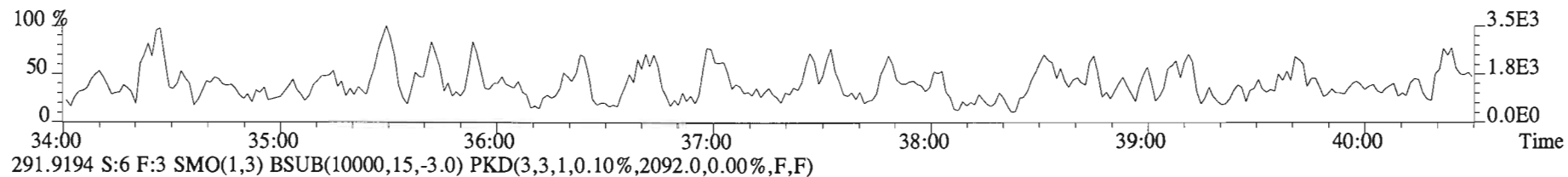
File:150219E2 #1-758 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1736.0,0.00%,F,F)



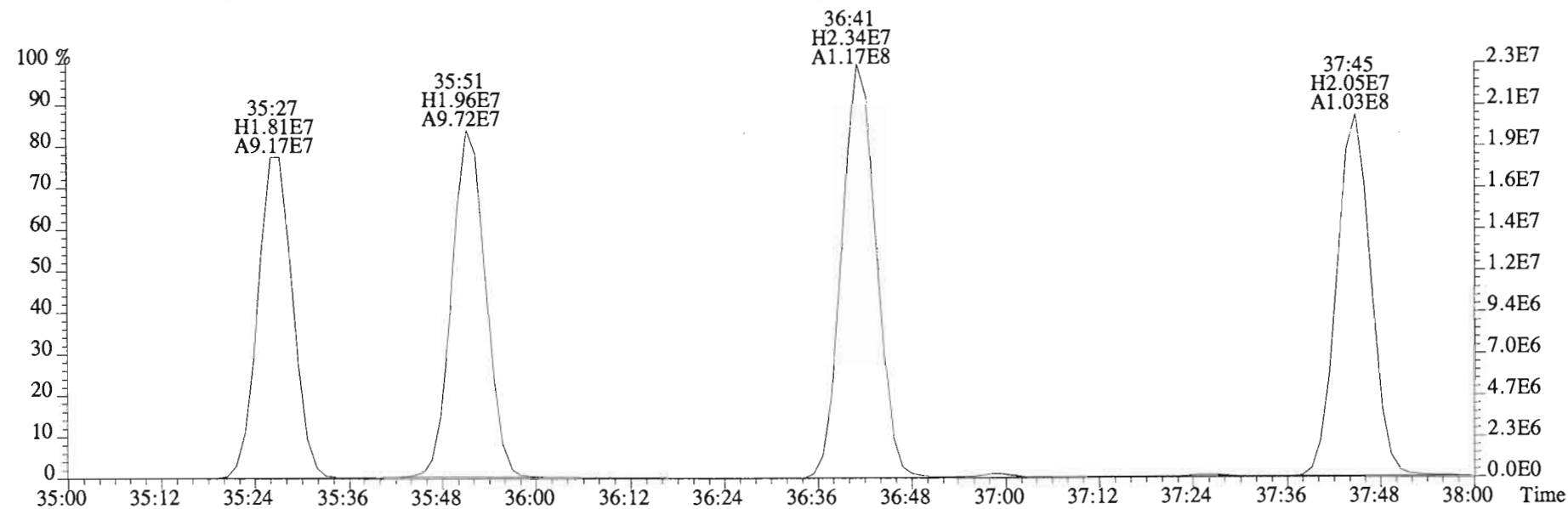
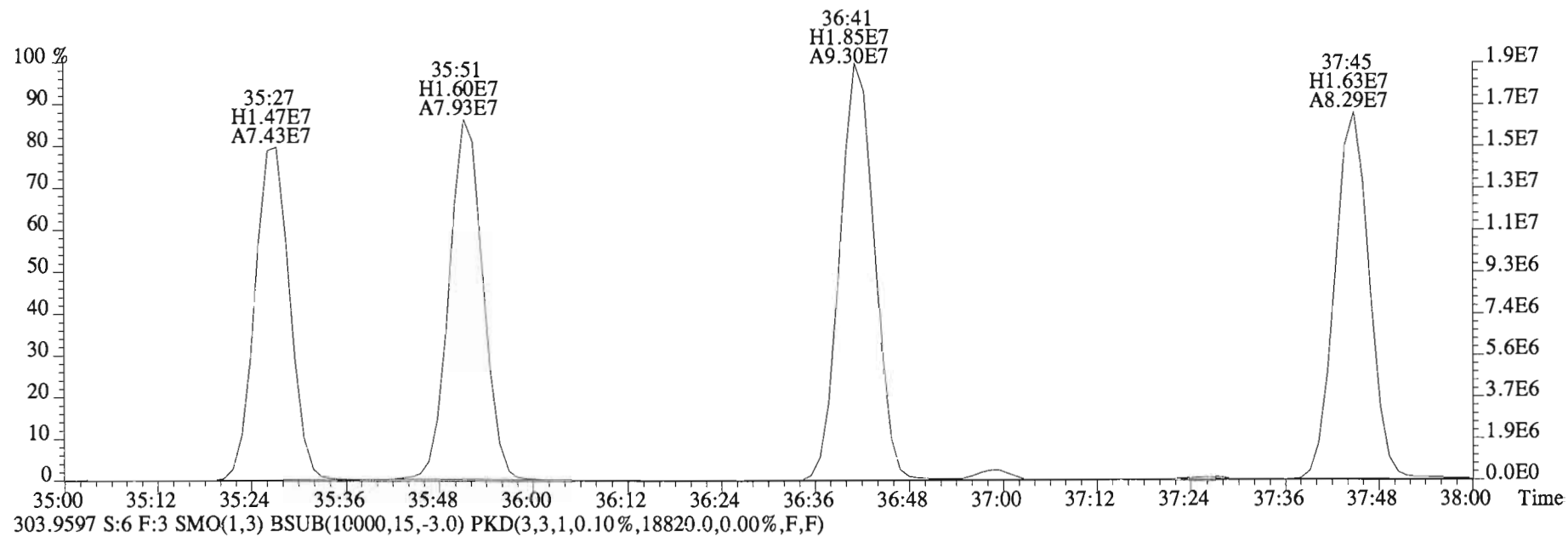
File:150219E2 #1-758 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1736.0,0.00%,F,F)



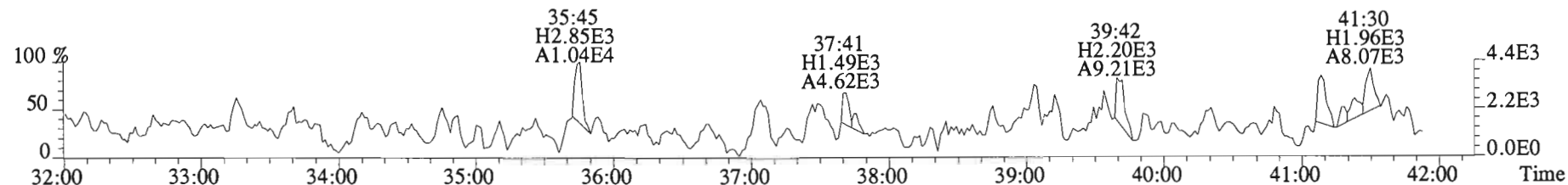
File:150219E2 #1-758 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
289.9224 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1736.0,0.00%,F,F)



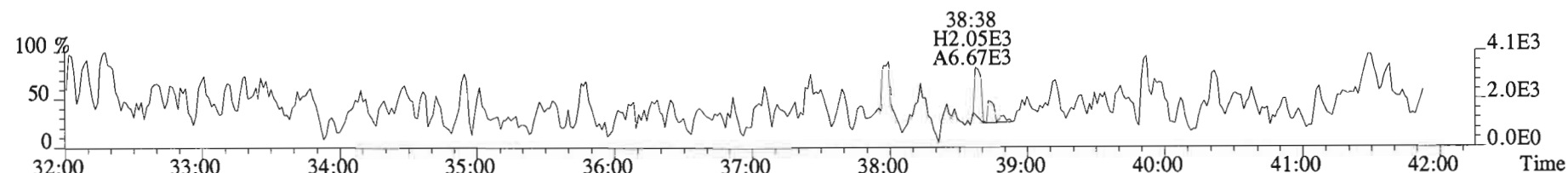
File:150219E2 #1-758 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
301.9626 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,26684.0,0.00%,F,F)



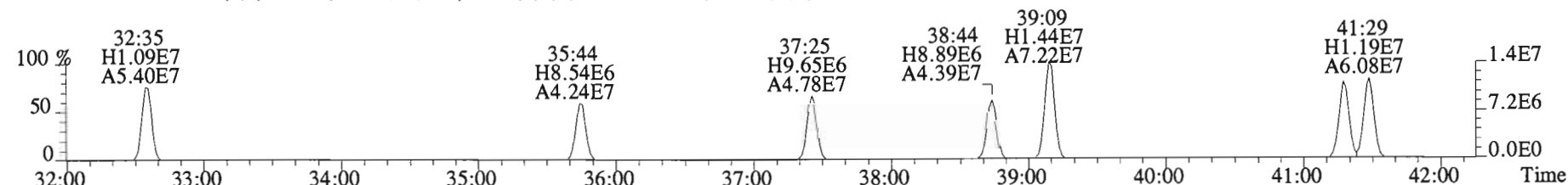
File:150219E2 #1-758 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1740.0,0.00%,F,F)



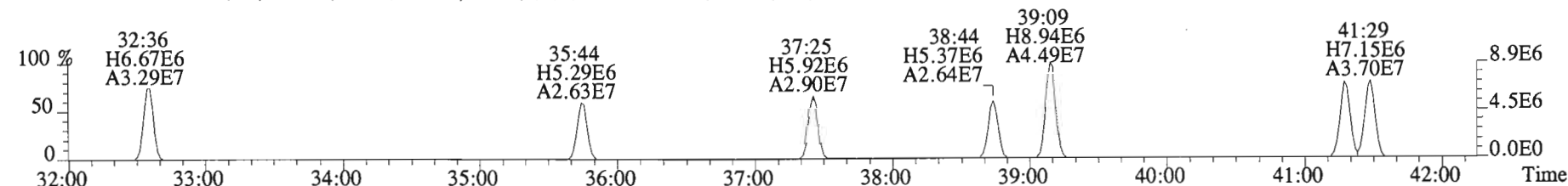
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2168.0,0.00%,F,F)



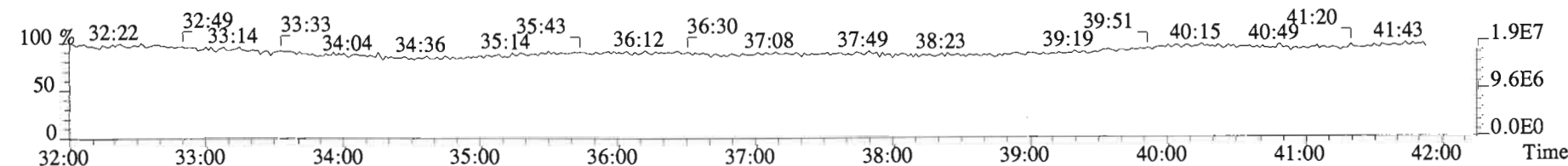
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2456.0,0.00%,F,F)



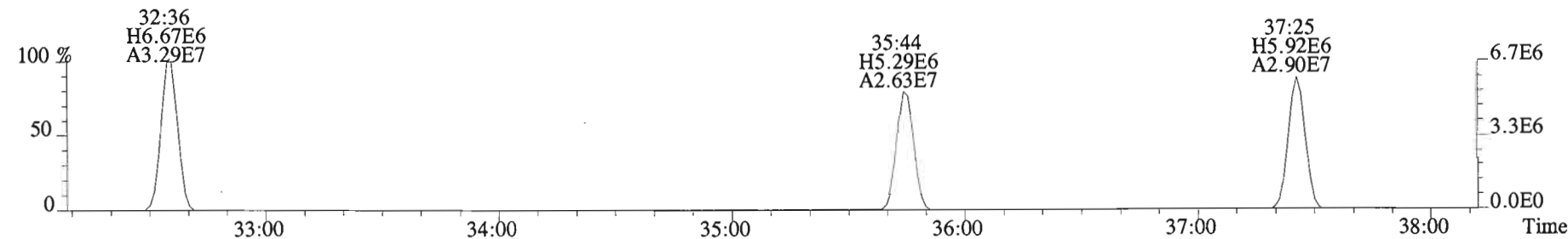
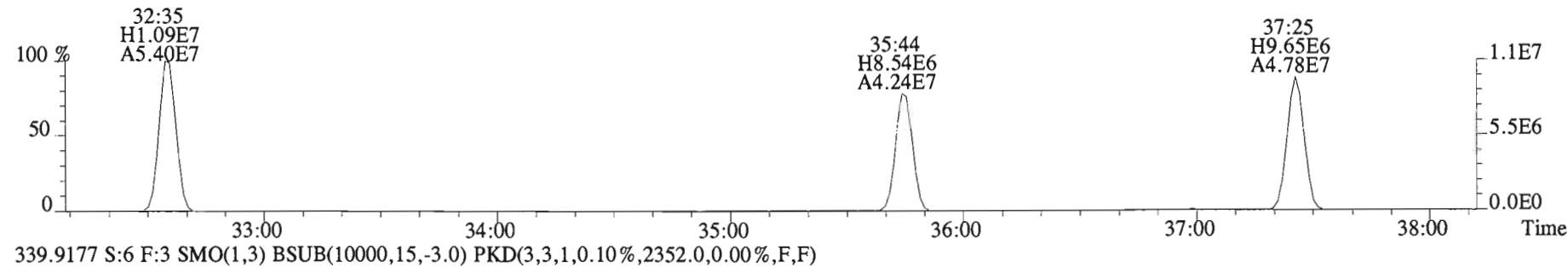
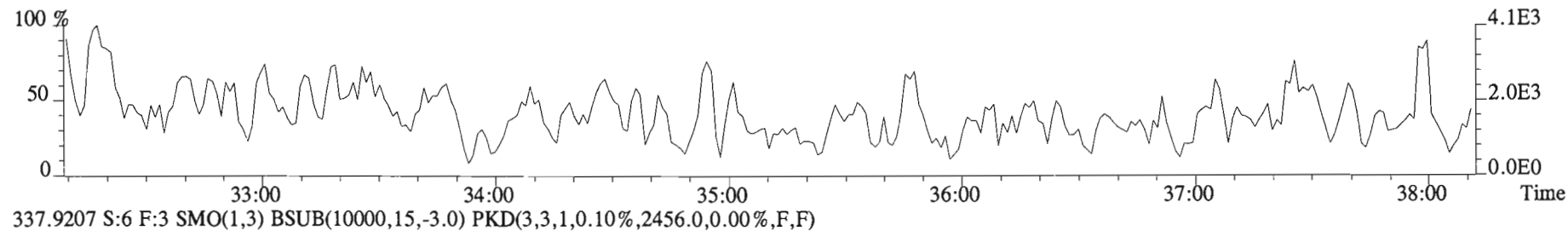
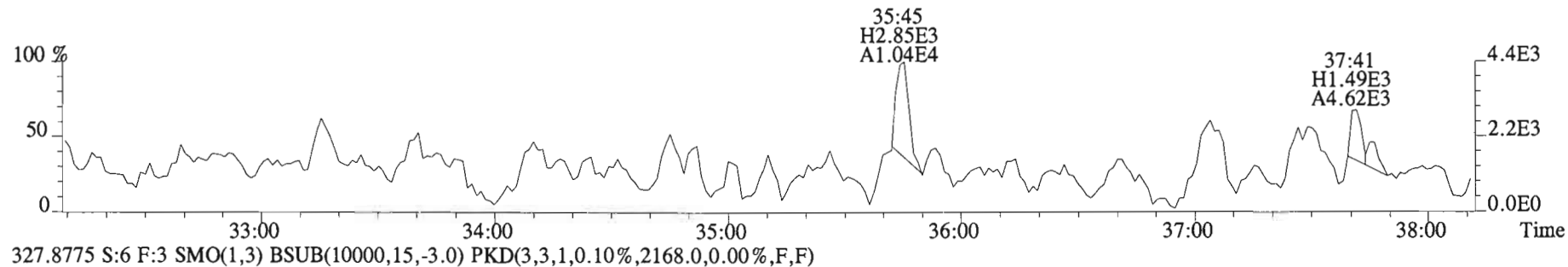
339.9177 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2352.0,0.00%,F,F)



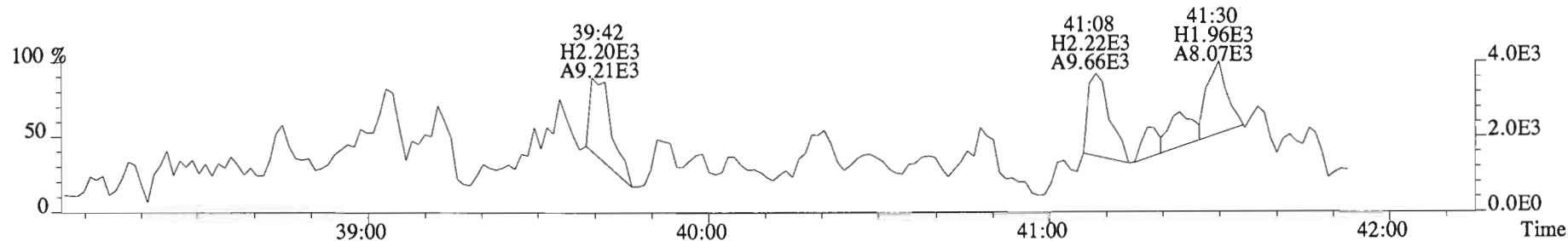
330.9792 S:6 F:3



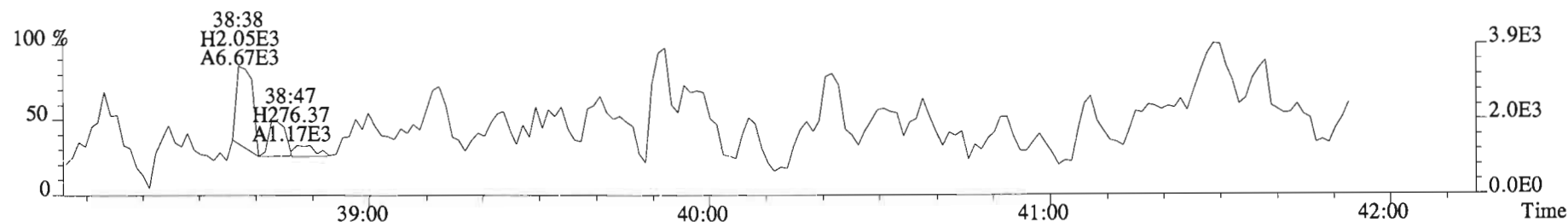
File:150219E2 #1-758 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1740.0,0.00%,F,F)



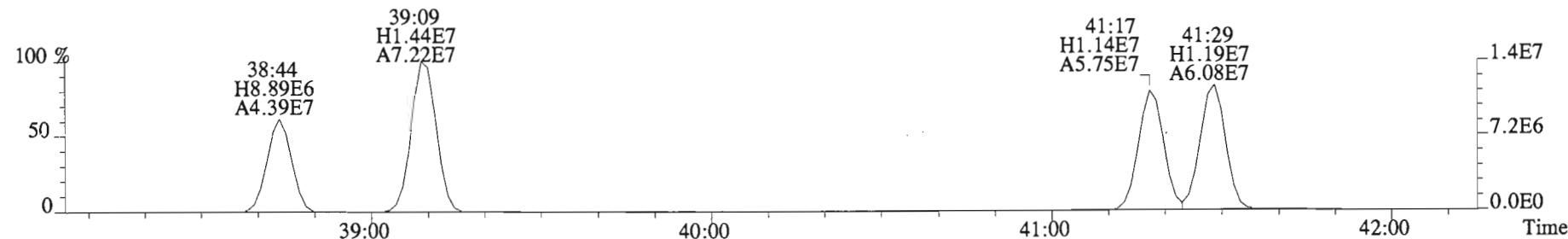
File:150219E2 #1-758 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
325.8804 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1740.0,0.00%,F,F)



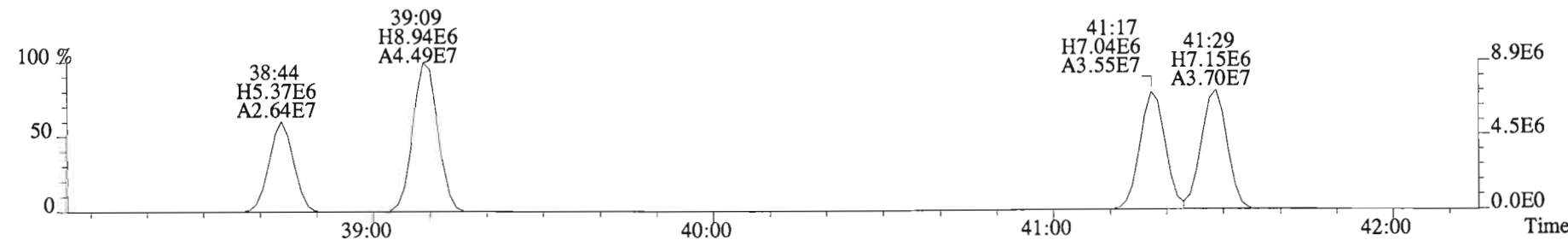
327.8775 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2168.0,0.00%,F,F)



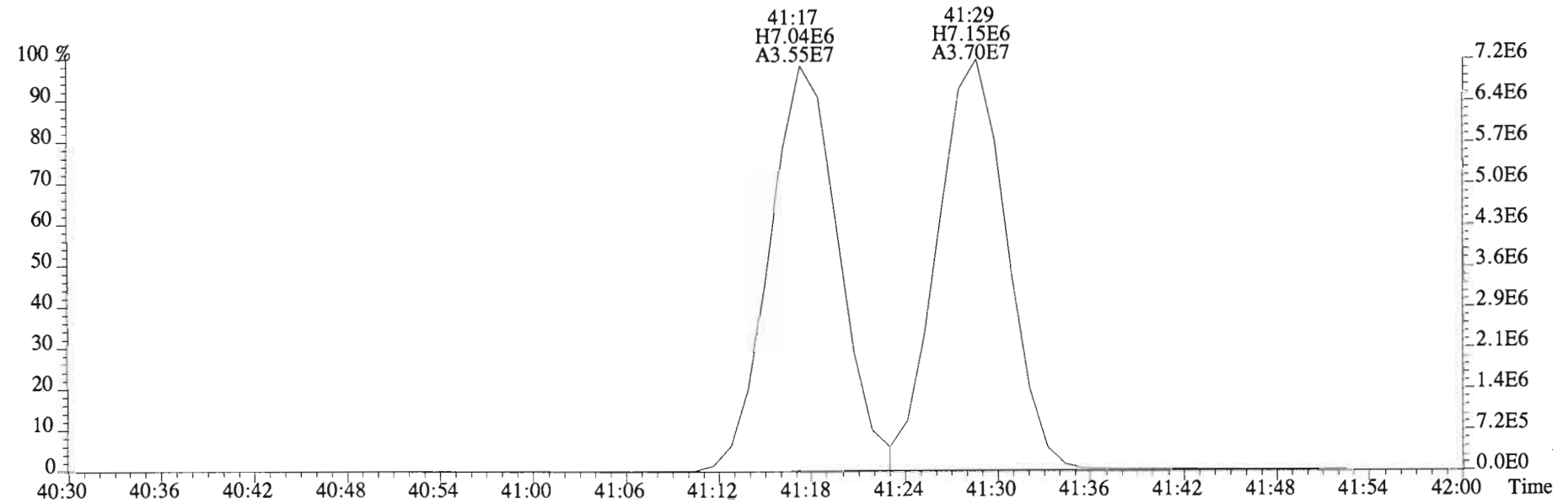
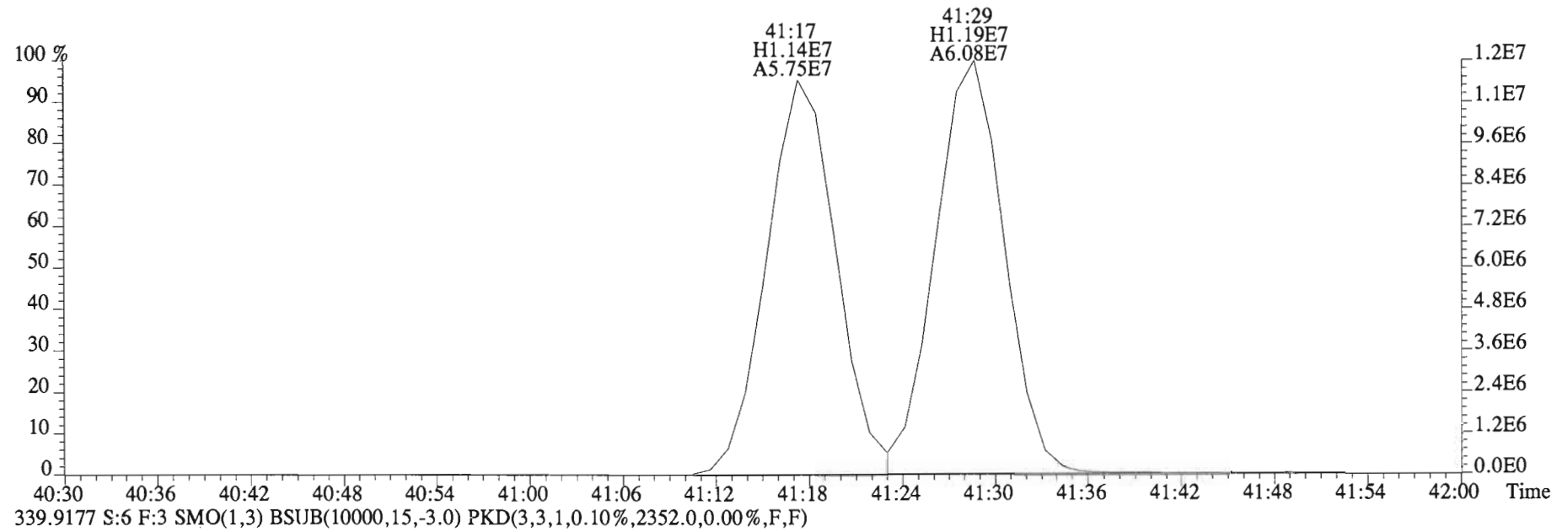
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2456.0,0.00%,F,F)



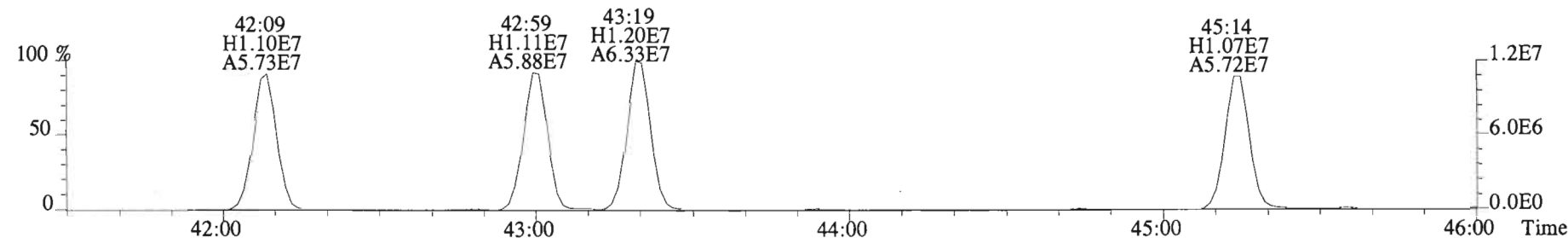
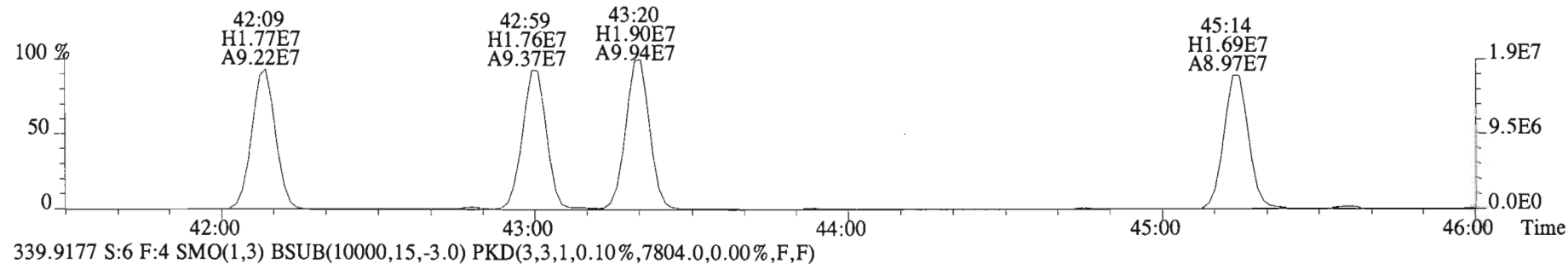
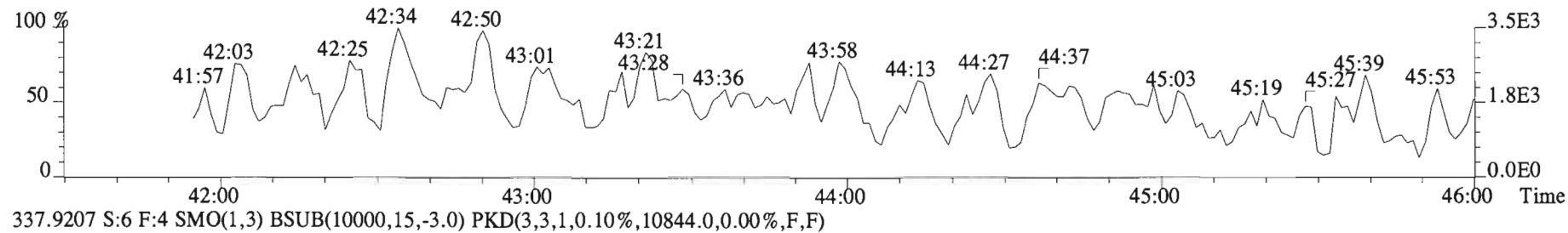
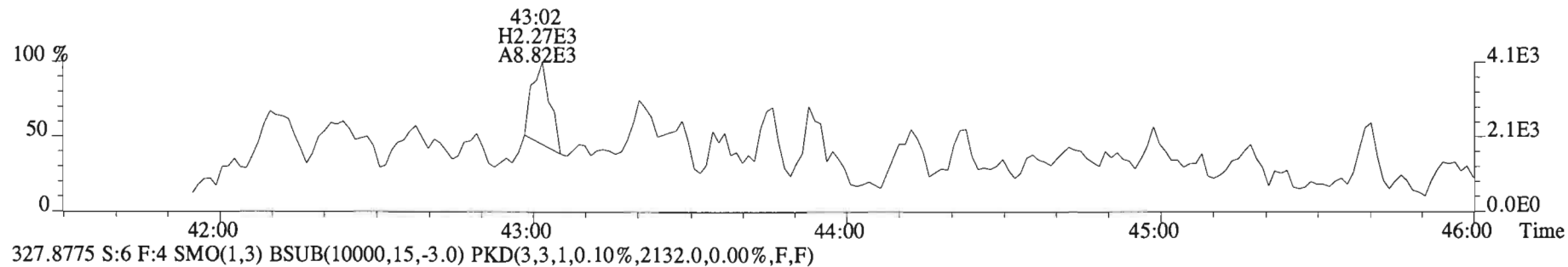
339.9177 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2352.0,0.00%,F,F)



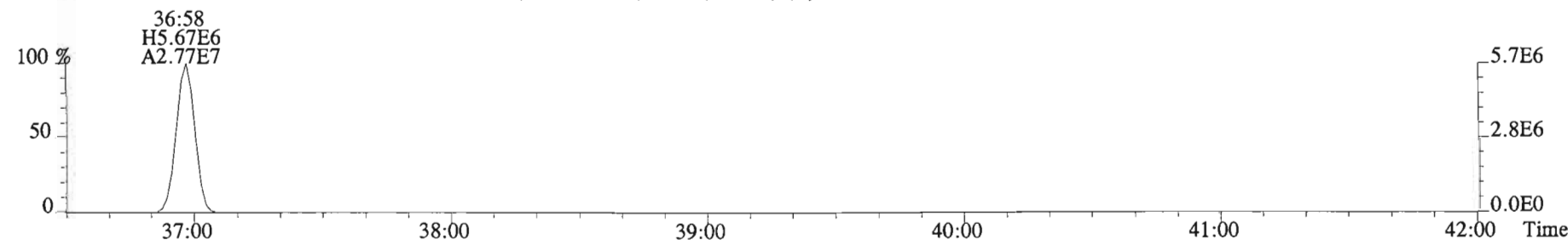
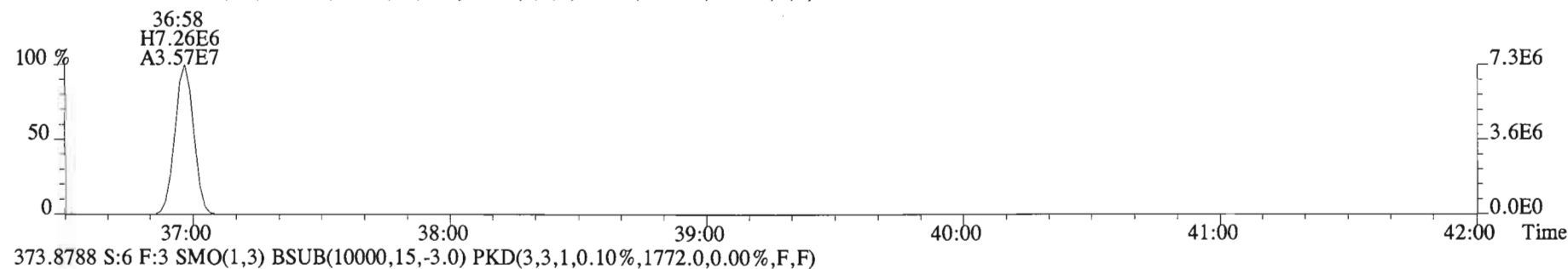
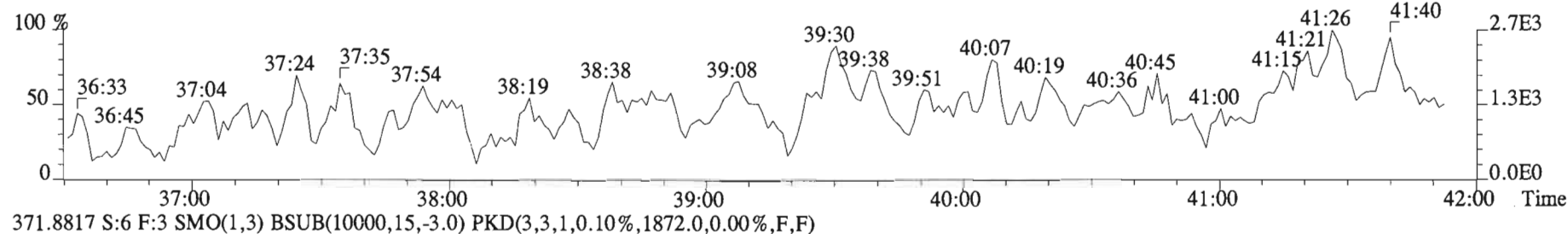
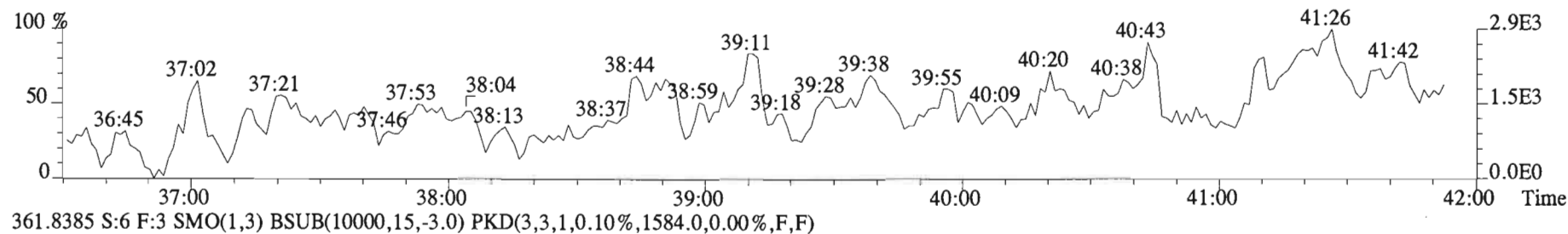
File:150219E2 #1-758 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
337.9207 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2456.0,0.00%,F,F)



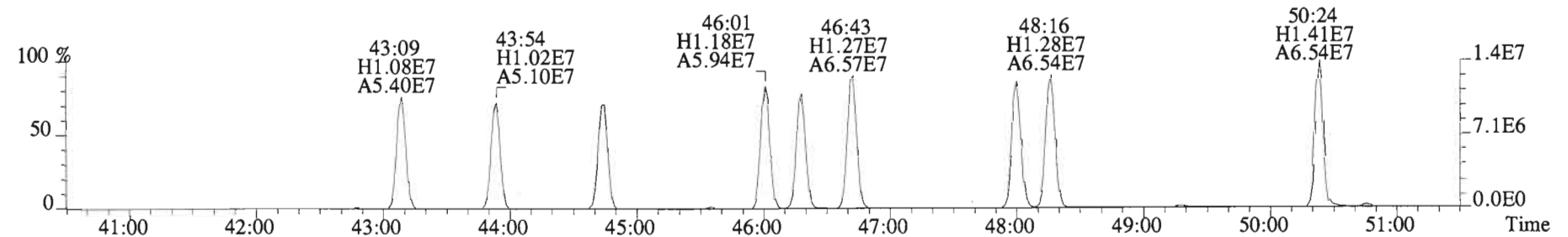
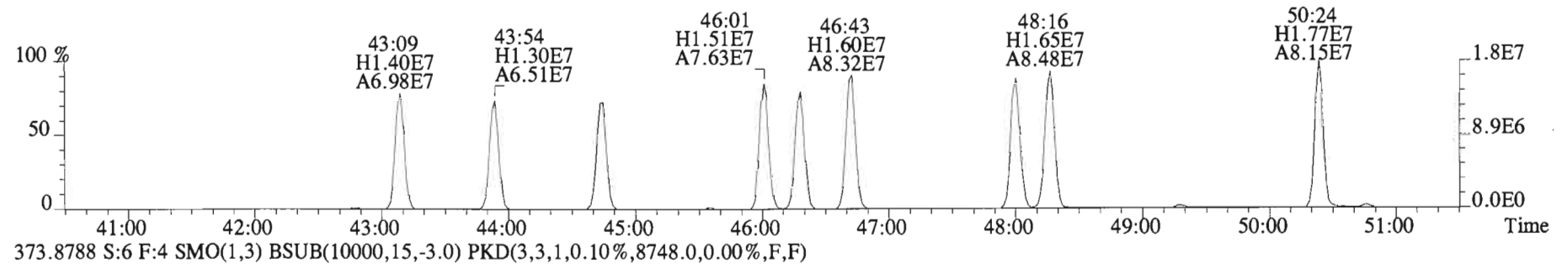
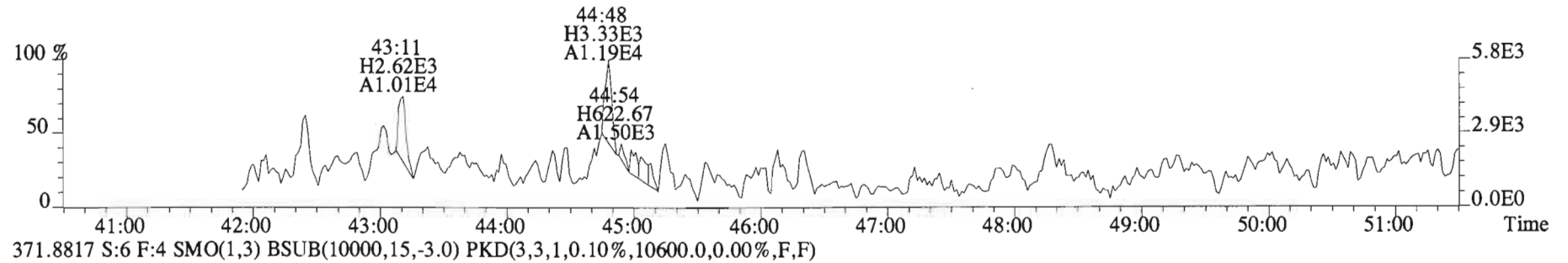
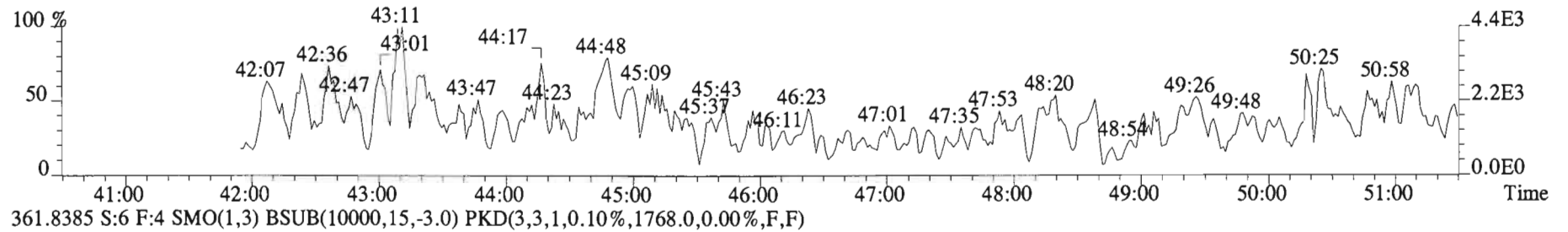
File:150219E2 #1-555 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
325.8804 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1720.0,0.00%,F,F)



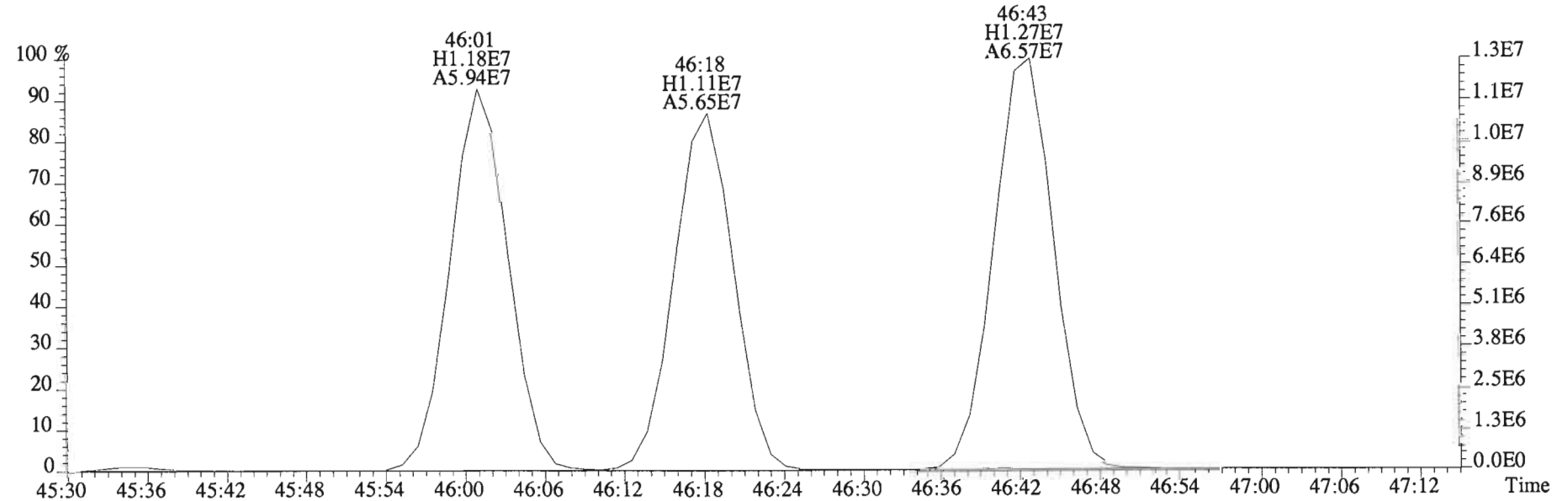
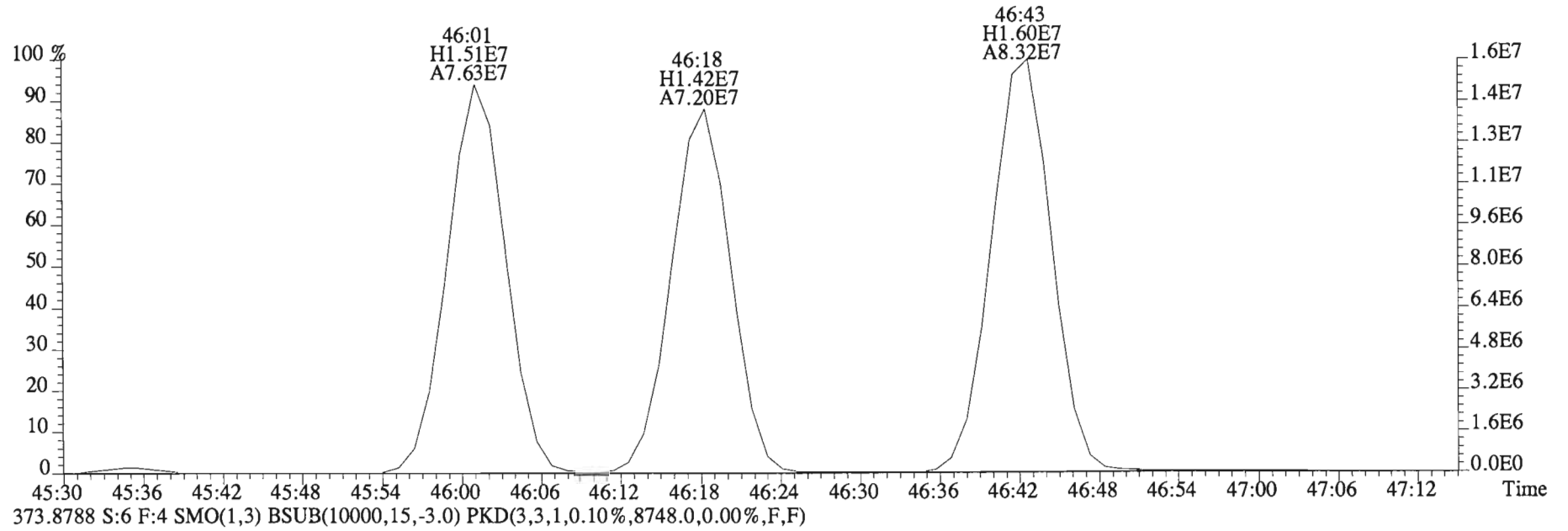
File:150219E2 #1-758 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
359.8415 S:6 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1656.0,0.00%,F,F)



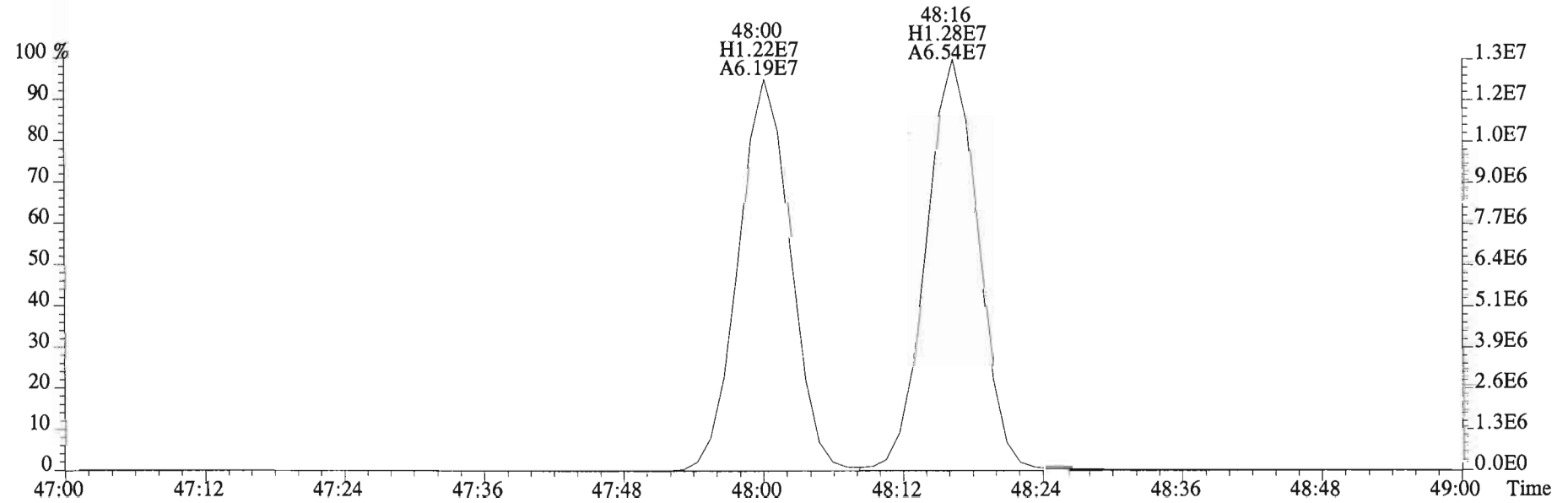
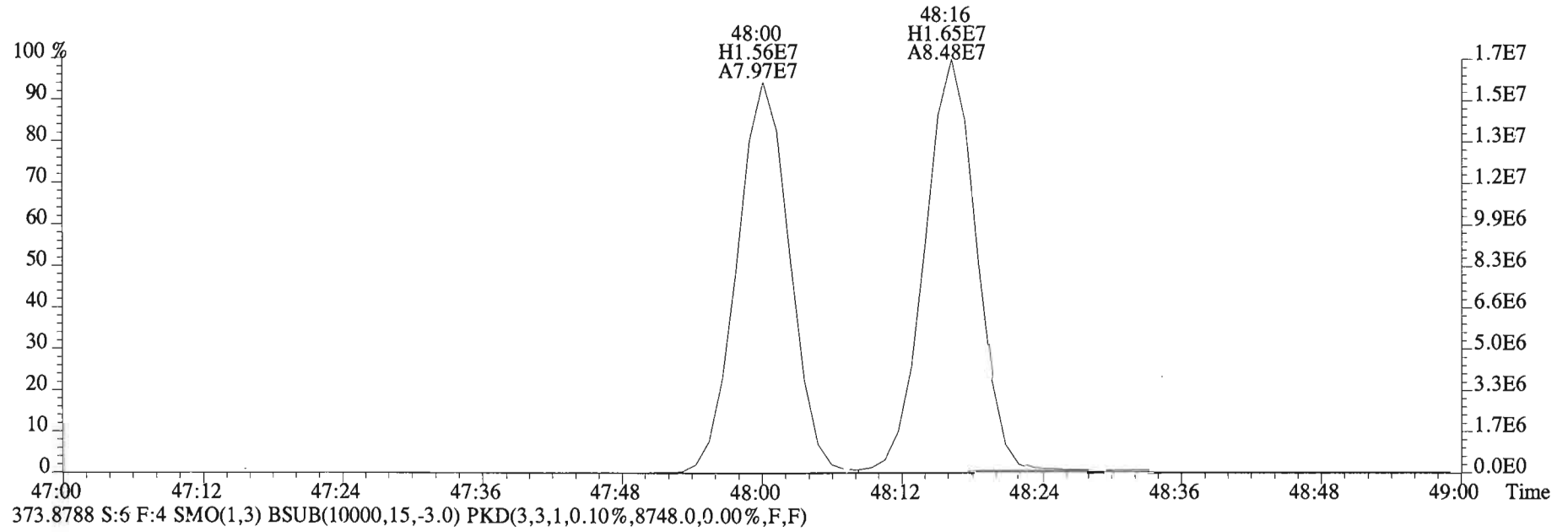
File:150219E2 #1-555 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
 359.8415 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1964.0,0.00%,F,F)



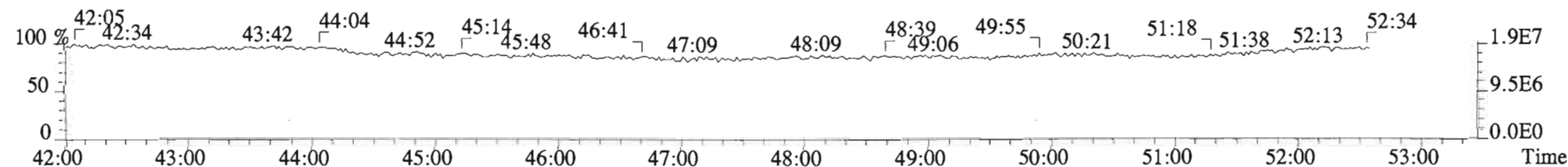
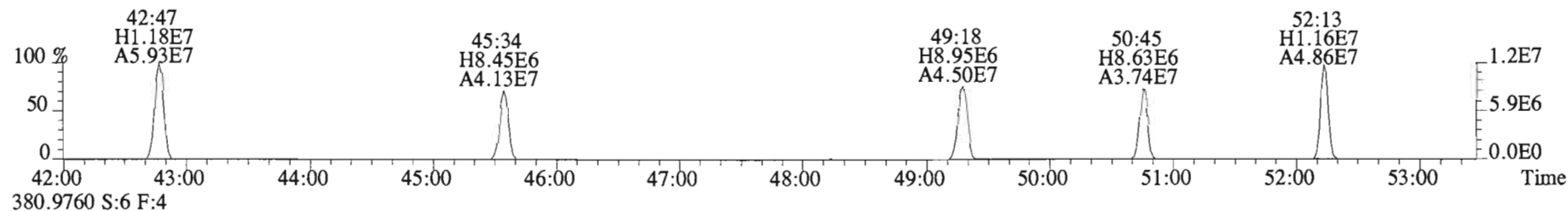
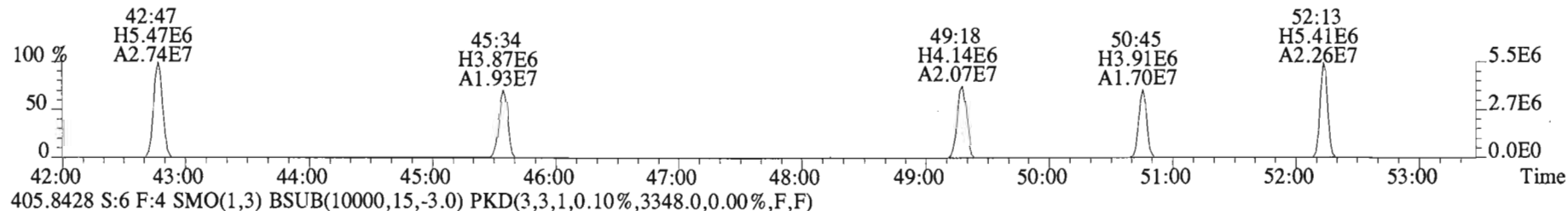
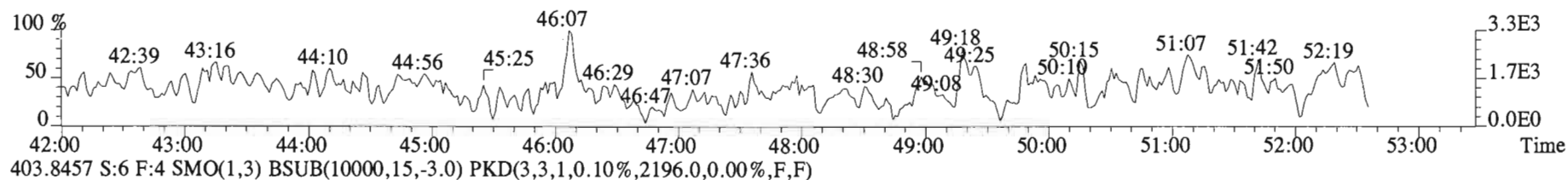
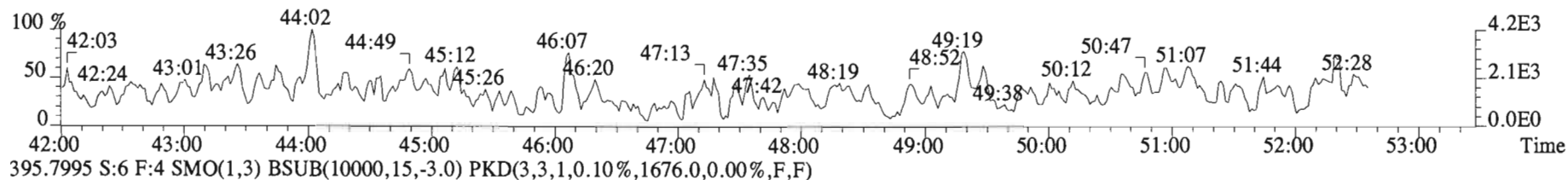
File:150219E2 #1-555 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10600.0,0.00%,F,F)



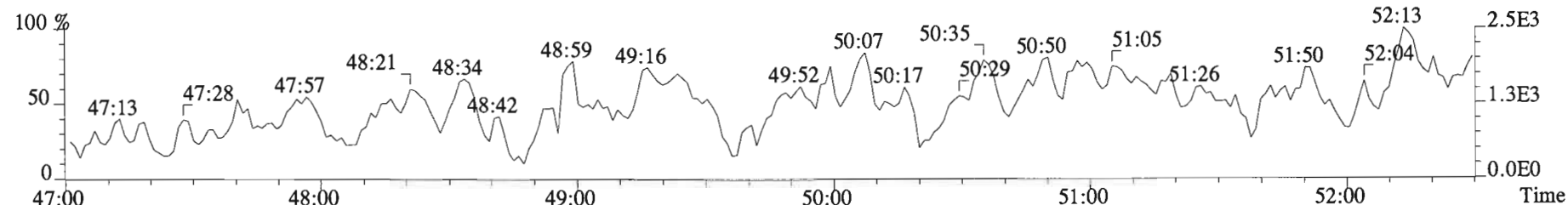
File:150219E2 #1-555 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
371.8817 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10600.0,0.00%,F,F)



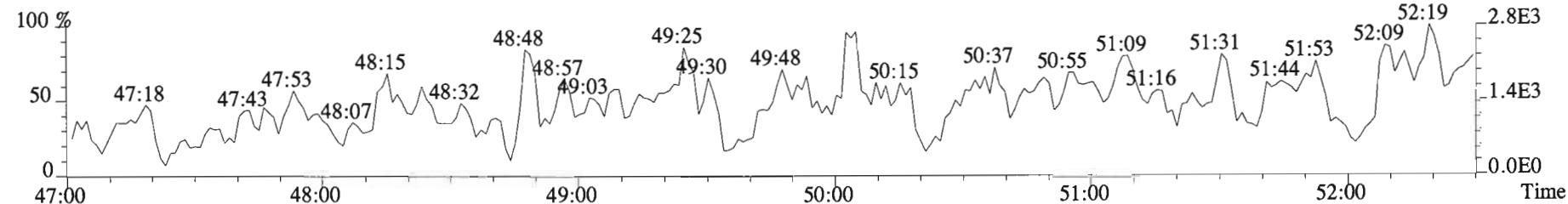
File:150219E2 #1-555 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
 393.8025 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1900.0,0.00%,F,F)



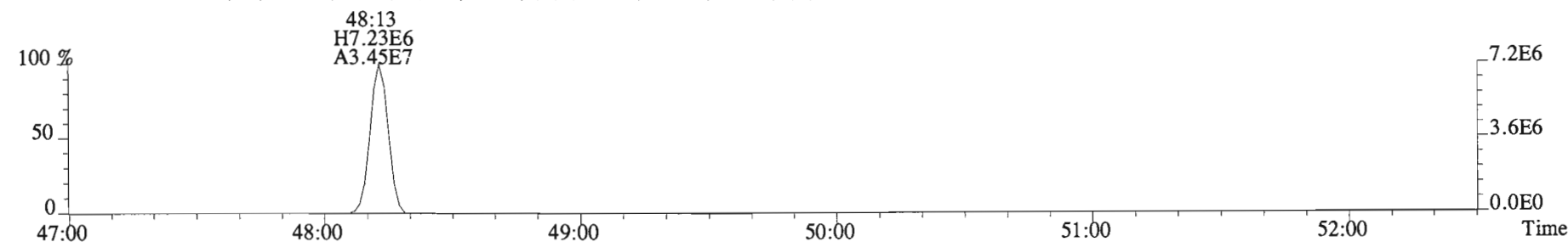
File:150219E2 #1-555 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text: Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
427.7635 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1696.0,0.00%,F,F)



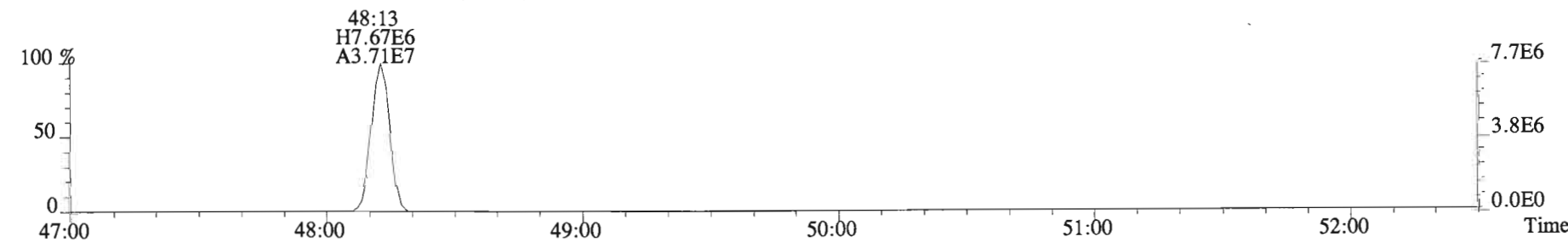
429.7606 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1744.0,0.00%,F,F)



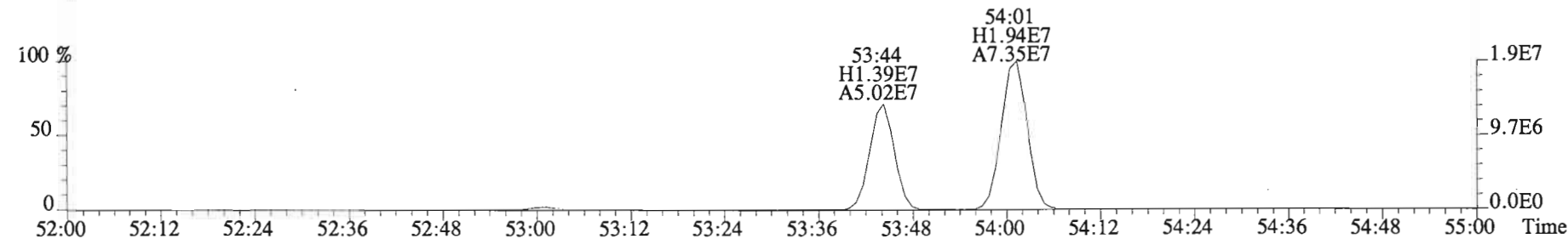
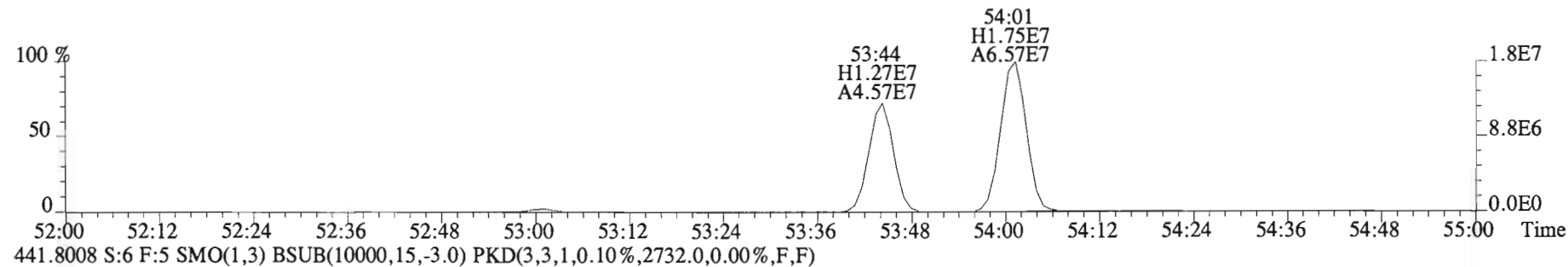
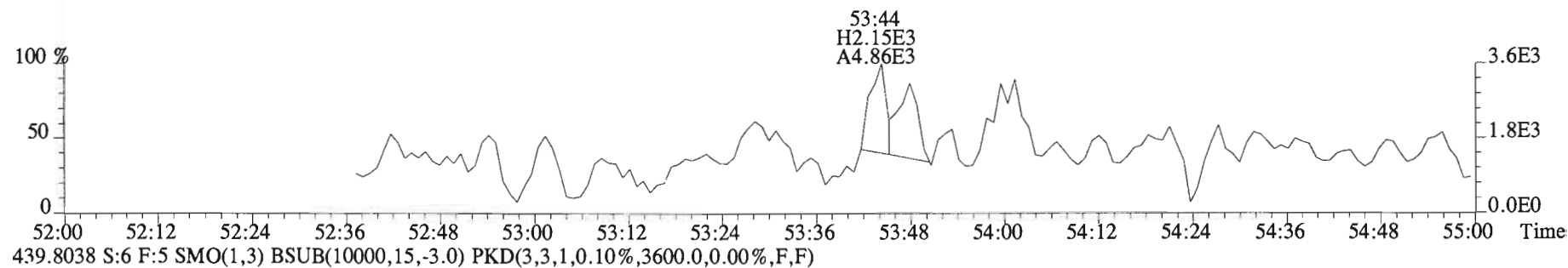
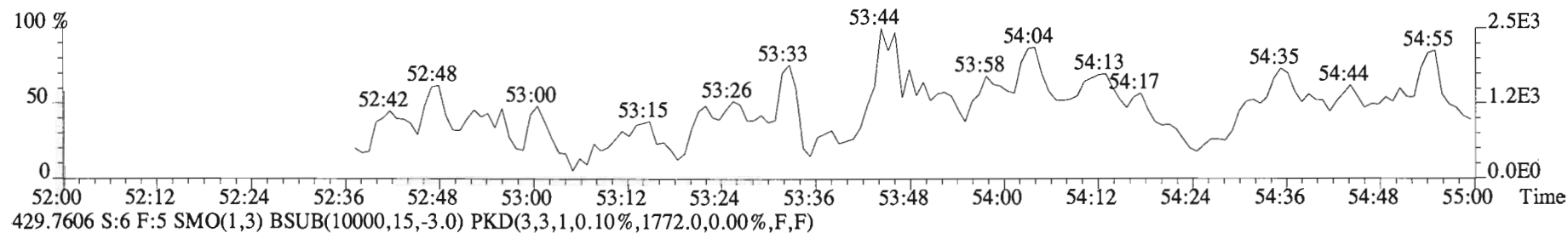
439.8038 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1908.0,0.00%,F,F)



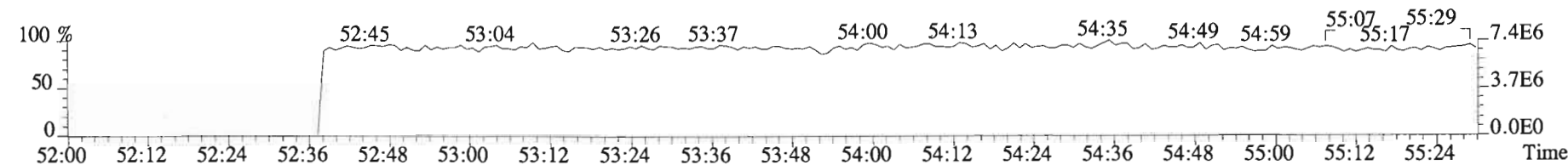
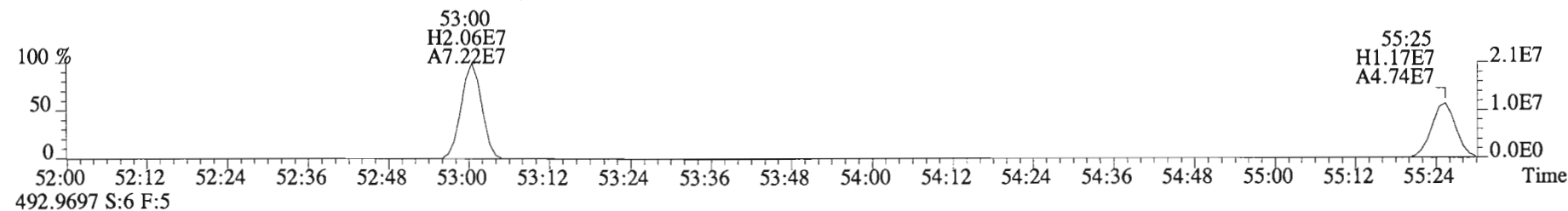
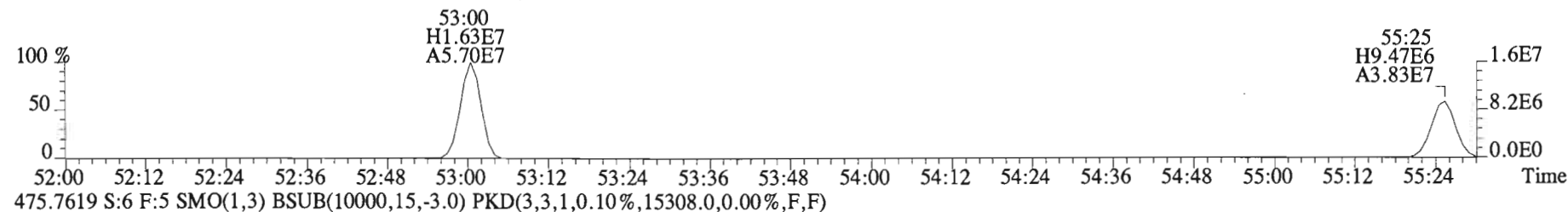
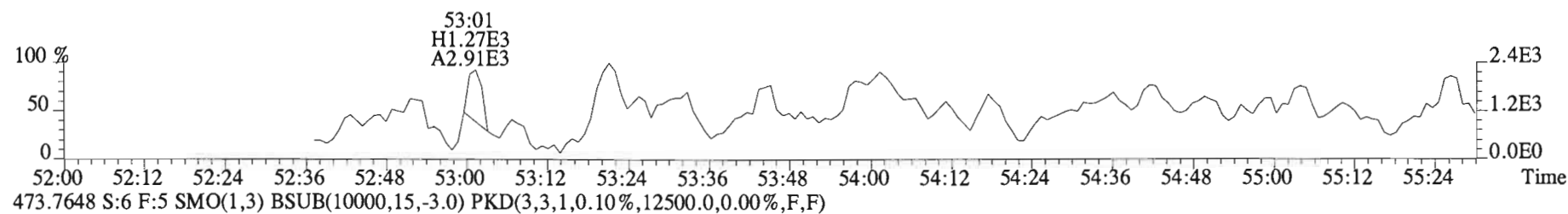
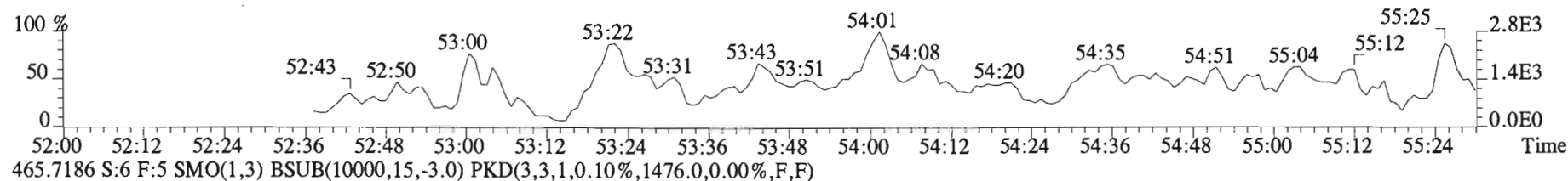
441.8008 S:6 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1400.0,0.00%,F,F)



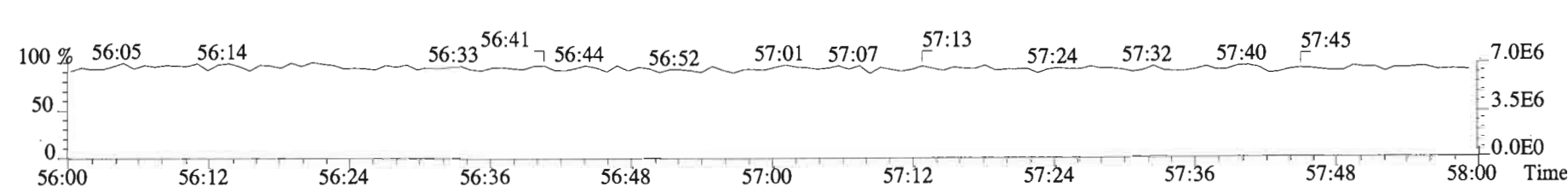
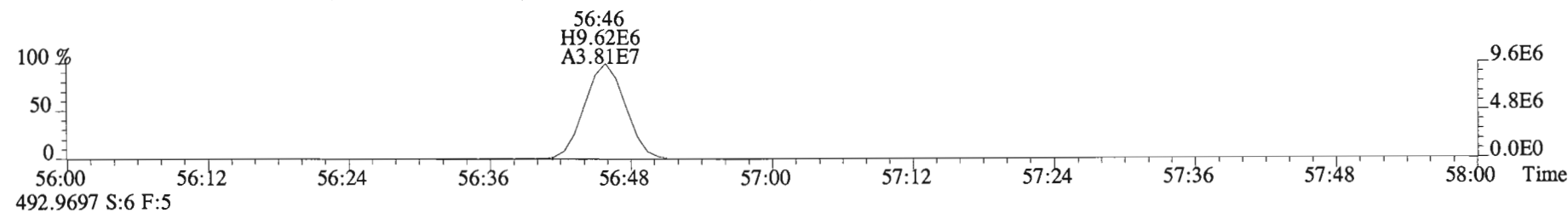
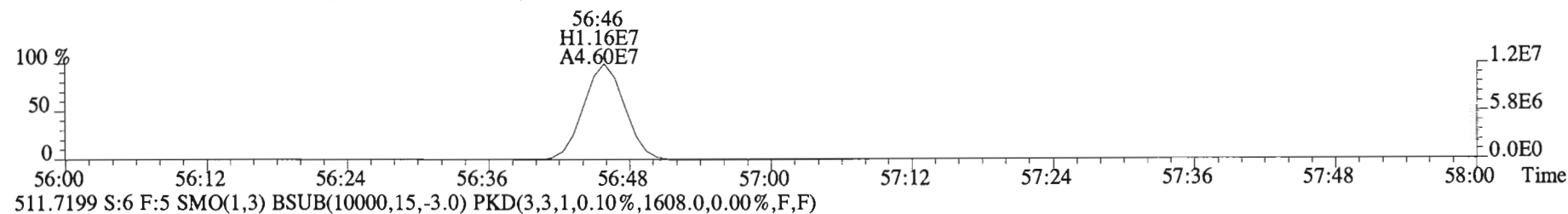
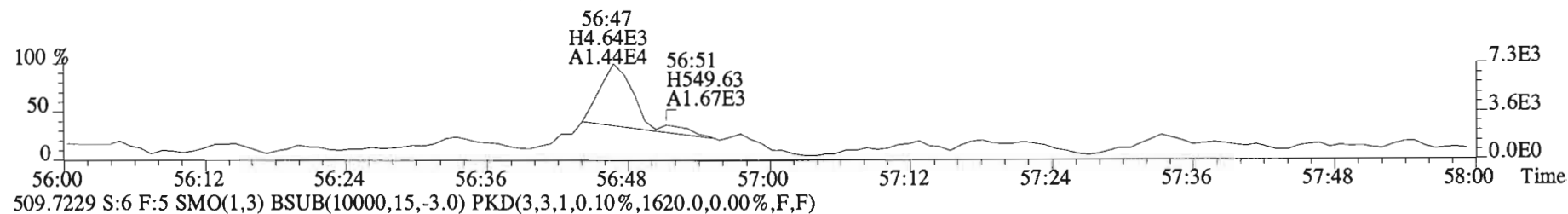
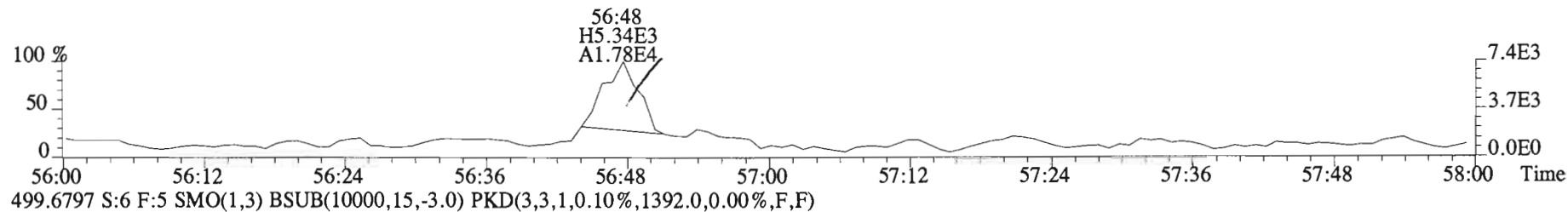
File:150219E2 #1-429 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
427.7635 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1420.0,0.00%,F,F)



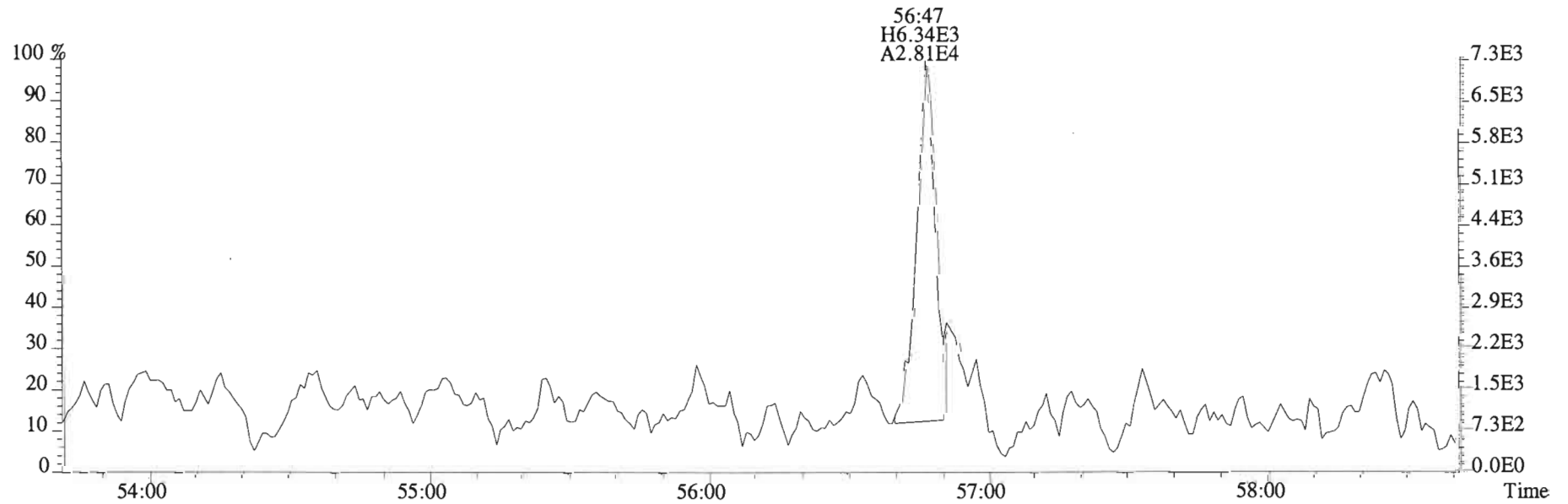
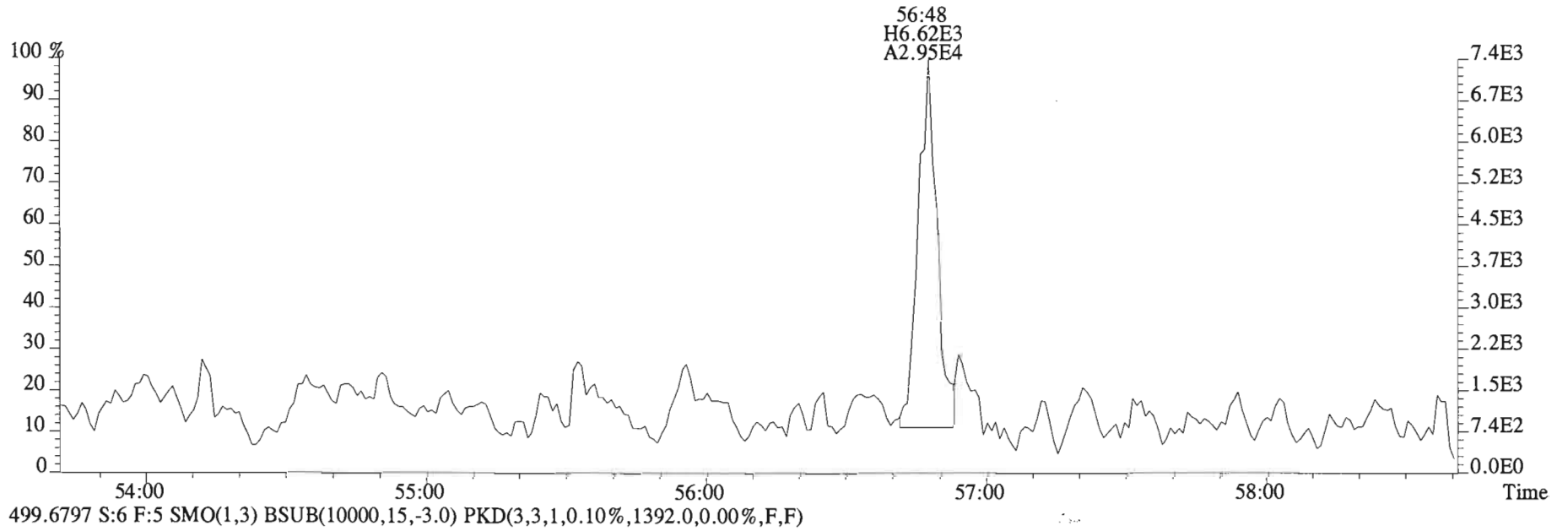
File:150219E2 #1-429 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
463.7216 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1640.0,0.00%,F,F)



File:150219E2 #1-429 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
497.6826 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1344.0,0.00%,F,F)



File:150219E2 #1-429 Acq:19-FEB-2015 19:28:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BLK1 Method Blank 10 Exp:PCB_ZB1
497.6826 S:6 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1344.0,0.00%,F,F)



Lab Name: Vista Analytical Laboratory OPR Data Filename: B5B0069-BS1

Matrix : SOLID Ext. Date: 2-17-15 Analysis Date: 19-FEB-15 Time: 16:15:42

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

NATIVE ANALYTES	SPIKE	CONC.	OPR CONC.	Labeled Compounds	SPIKE	CONC.	OPR CONC.	Clean Up Standard	SPIKE	CONC.	OPR CONC.
	CONC.	FOUND	LIMITS		CONC.	FOUND	LIMITS		CONC.	FOUND	LIMITS
	(ng/mL)	(ng/mL)	(ng/mL)		(ng/mL)	(ng/mL)	(ng/mL)		(ng/mL)	(ng/mL)	(ng/mL)
PCB-1	50	50.1	30.0-67.5	13C-PCB-1	100	37.1	15-145	13C-PCB-79	100	89.0	40-145
PCB-3	50	49.6	30.0-67.5	13C-PCB-3	100	46.0	15-145	13C-PCB-178	100	79.8	40-145
PCB-4/10	200	183.5	120-270	13C-PCB-4	100	49.5	15-145				
PCB-15	100	96.7	60.0-135	13C-PCB-11	100	66.5	15-145				
PCB-19	50	55.6	30.0-67.5	13C-PCB-19	100	57.1	15-145				
PCB-37	50	52.0	30.0-67.5	13C-PCB-37	100	89.2	15-145				
PCB-54	50	54.6	30.0-67.5	13C-PCB-54	100	59.6	15-145				
PCB-81	50	54.4	30.0-67.5	13C-PCB-81	100	88.0	40-145				
PCB-77	50	56.0	30.0-67.5	13C-PCB-77	100	90.1	40-145				
PCB-104	50	55.5	30.0-67.5	13C-PCB-104	100	72.7	40-145				
PCB-123	50	54.8	30.0-67.5	13C-PCB-123	100	91.6	40-145				
PCB-106/118	100	110.1	60.0-135	13C-PCB-118	100	89.3	40-145				
PCB-114	50	49.9	30.0-67.5	13C-PCB-114	100	89.6	40-145				
PCB-105	50	49.6	30.0-67.5	13C-PCB-105	100	89.9	40-145				
PCB-126	50	51.7	30.0-67.5	13C-PCB-126	100	91.6	40-145				
PCB-155	50	54.0	30.0-67.5	13C-PCB-155	100	63.9	40-145				
PCB-167	50	55.0	30.0-67.5	13C-PCB-167	100	86.7	40-145				
PCB-156	50	54.4	30.0-67.5	13C-PCB-156	100	89.0	40-145				
PCB-157	50	52.3	30.0-67.5	13C-PCB-157	100	88.4	40-145				
PCB-169	50	52.8	30.0-67.5	13C-PCB-169	100	90.7	40-145				
PCB-188	50	54.5	30.0-67.5	13C-PCB-188	100	75.5	40-145				
PCB-189	50	54.3	30.0-67.5	13C-PCB-189	100	81.9	40-145				
PCB-202	50	51.6	30.0-67.5	13C-PCB-202	100	68.3	40-145				
PCB-205	50	49.8	30.0-67.5	13C-PCB-194	100	85.9	40-145				
PCB-208	50	52.6	30.0-67.5	13C-PCB-208	100	85.4	40-145				
PCB-206	50	53.5	30.0-67.5	13C-PCB-206	100	95.6	40-145				
PCB-209	50	53.6	30.0-67.5	13C-PCB-209	100	97.7	40-145				

Analyst: DMSDate: 2/21/15

Client ID: OPR
Lab ID: B5B0069-BS1

Filename: 150219E2 S:3 Acq:19-FEB-15 16:15:42 ConCal: ST150219E2-1
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	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	5.15e+07	3.01	y	1.19	16:08	1.001	0.996-1.006	50.0620	PCB-52/69	1.73e+08	0.78	y	1.28	31:28	1.001	0.996-1.006	114.194
PCB-2	6.62e+07	3.00	y	1.18	18:29	0.988	0.984-0.994	49.8860	PCB-73	9.46e+07	0.80	y	1.35	31:35	1.005	1.000-1.010	59.0027
PCB-3	7.92e+07	3.03	y	1.43	18:43	1.001	0.996-1.006	49.5892	PCB-43/49	1.35e+08	0.78	y	0.99	31:45	1.010	1.005-1.015	114.193
PCB-4/10	2.23e+08	1.60	y	1.57	20:05	1.002	0.997-1.007	183.467	PCB-47	7.77e+07	0.78	y	1.06	31:57	1.001	0.996-1.006	57.8223
PCB-7/9	2.94e+08	1.61	y	1.21	21:51	0.868	0.866-0.874	196.119	PCB-48/75	1.74e+08	0.80	y	1.23	32:04	1.004	0.999-1.009	111.962
PCB-6	1.66e+08	1.61	y	1.30	22:30	0.894	0.890-0.899	102.907	PCB-65	8.28e+07	0.89	y	1.22	32:21	1.013	1.008-1.018	53.2928
PCB-5/8	3.08e+08	1.61	y	1.15	22:55	0.910	0.907-0.917	216.541	PCB-62	8.80e+07	0.70	y	1.22	32:27	1.016	1.011-1.021	56.8441
PCB-14	1.65e+08	1.62	y	1.11	24:00	0.953	0.949-0.959	89.2424	PCB-44	6.52e+07	0.79	y	0.86	32:45	1.026	1.021-1.031	59.7763
PCB-11	1.76e+08	1.63	y	1.09	25:12	1.001	0.995-1.005	97.4467	PCB-42/59	1.73e+08	0.79	y	1.14	32:58	1.033	1.028-1.038	120.198
PCB-12/13	3.79e+08	1.59	y	1.19	25:35	1.016	1.011-1.021	190.958	PCB-41/64/71/72	3.66e+08	0.79	y	1.21	33:34	1.051	1.046-1.056	238.952
PCB-15	2.06e+08	1.60	y	1.28	25:54	1.029	1.023-1.033	96.7080	PCB-68	1.05e+08	0.78	y	1.35	33:49	1.059	1.054-1.064	61.5588
PCB-19	4.69e+07	1.06	y	1.04	24:11	1.001	0.996-1.006	55.5734	PCB-40	5.82e+07	0.79	y	0.70	34:03	1.066	1.061-1.071	65.3691
PCB-30	7.78e+07	1.05	y	1.71	25:04	1.038	1.032-1.042	56.1802	PCB-57	9.66e+07	0.79	y	0.98	34:24	0.970	0.965-0.975	57.5762
PCB-18	5.81e+07	1.06	y	0.78	25:49	0.954	0.949-0.959	54.1312	PCB-67	1.02e+08	0.79	y	1.11	34:42	0.979	0.974-0.984	53.6337
PCB-17	6.85e+07	1.07	y	0.92	25:60	0.960	0.956-0.966	54.0900	PCB-58	9.86e+07	0.82	y	0.93	34:49	0.982	0.977-0.987	62.0465
PCB-24/27	1.76e+08	1.08	y	1.19	26:34	0.982	0.977-0.987	108.187	PCB-63	9.35e+07	0.77	y	0.95	34:59	0.987	0.982-0.992	57.3044
PCB-16/32	1.44e+08	1.06	y	0.94	27:04	1.000	0.995-1.005	111.480	PCB-74	1.22e+08	0.79	y	1.24	35:16	0.995	0.990-1.000	57.0560
PCB-34	8.44e+07	1.08	y	1.14	27:52	0.960	0.955-0.965	46.7336	PCB-61/70	1.90e+08	0.79	y	0.95	35:26	1.000	0.995-1.005	116.130
PCB-23	9.52e+07	1.10	y	1.28	27:57	0.963	0.959-0.969	46.8176	PCB-76/66	2.02e+08	0.79	y	1.04	35:39	1.006	1.001-1.011	113.001
PCB-29	8.22e+07	1.10	y	1.08	28:12	0.971	0.967-0.977	47.8503	PCB-80	1.26e+08	0.79	y	1.19	35:53	1.001	0.996-1.006	58.6656
PCB-26	9.72e+07	1.08	y	1.21	28:25	0.979	0.974-0.984	50.6516	PCB-55	1.11e+08	0.79	y	1.04	36:13	1.010	1.005-1.015	59.2821
PCB-25	1.05e+08	1.09	y	1.26	28:35	0.985	0.979-0.989	52.3246	PCB-56/60	2.17e+08	0.78	y	1.01	36:42	1.023	1.019-1.029	119.084
PCB-31	1.14e+08	1.06	y	1.28	28:56	0.997	0.992-1.002	55.9353	PCB-79	1.16e+08	0.80	y	1.08	37:46	1.053	1.048-1.058	59.8103
PCB-28	1.40e+08	1.10	y	1.71	29:02	1.000	0.995-1.005	51.3372	PCB-78	1.22e+08	0.79	y	1.27	38:28	0.987	0.982-0.992	55.9609
PCB-20/21/33	2.94e+08	1.09	y	1.08	29:40	1.022	1.017-1.027	170.944	PCB-81	1.24e+08	0.79	y	1.33	38:60	1.000	0.995-1.005	54.4216
PCB-22	1.13e+08	1.08	y	1.21	30:06	1.037	1.032-1.042	58.6436	PCB-77	1.11e+08	0.81	y	1.10	39:36	1.000	0.995-1.005	56.0468
PCB-36	1.01e+08	1.09	y	1.14	30:42	0.933	0.928-0.938	48.5406	PCB-104	5.71e+07	1.60	y	1.18	32:37	1.001	0.996-1.006	55.5389
PCB-39	9.90e+07	1.08	y	1.12	31:10	0.947	0.943-0.953	48.8519	PCB-96	5.64e+07	1.62	y	1.14	33:52	1.039	1.034-1.044	57.0750
PCB-38	1.02e+08	1.07	y	1.20	31:57	0.971	0.966-0.976	46.8273	PCB-103	4.84e+07	1.60	y	0.96	34:24	1.055	1.050-1.060	58.2038
PCB-35	1.21e+08	1.09	y	1.23	32:29	0.987	0.982-0.992	53.8845	PCB-100	4.82e+07	1.60	y	0.94	34:45	1.066	1.061-1.071	59.1737
PCB-37	1.16e+08	1.08	y	1.23	32:55	1.001	0.995-1.005	52.0250	PCB-94	3.98e+07	1.59	y	1.06	35:14	0.985	0.980-0.990	53.7740
PCB-54	7.37e+07	0.78	y	1.10	27:56	1.001	0.996-1.006	54.5630	PCB-95/98/102	1.45e+08	1.60	y	1.22	35:43	0.999	0.995-1.005	169.395
PCB-50	6.68e+07	0.78	y	0.88	29:05	1.042	1.037-1.047	61.8987	PCB-93	3.10e+07	1.61	y	0.84	35:51	1.003	0.997-1.007	52.4249
PCB-53	6.66e+07	0.79	y	1.06	29:44	0.946	0.942-0.952	52.8370	PCB-88/91	9.45e+07	1.60	y	1.12	36:08	1.011	1.005-1.015	120.862
PCB-51	6.52e+07	0.79	y	0.99	30:05	0.957	0.952-0.962	55.5459	PCB-121	6.08e+07	1.64	y	1.62	36:15	1.014	1.009-1.019	53.7706
PCB-45	5.55e+07	0.78	y	0.86	30:31	0.971	0.966-0.976	54.1844	PCB-84/92	9.12e+07	1.61	y	1.05	37:04	0.990	0.985-0.995	111.886
PCB-46	5.62e+07	0.78	y	0.85	31:00	0.986	0.981-0.991	56.0545	PCB-89	4.86e+07	1.59	y	1.13	37:15	0.995	0.991-1.001	55.2383

Integrations

by

RL: MONO, TRI - DECA: _____

Analyst: Dms

Reviewed

by

Analyst: [Signature]

RL: DI : _____

Date: 2/21/15

Date: 2/25/15

Client ID: OPR
Lab ID: B5B0069-BS1

Filename: 150219E2 S:3 Acq:19-FEB-15 16:15:42
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA

ConCal: ST150219E2-1

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	9.54e+07	1.60	y	1.10	37:27	1.000	0.995-1.005	111.278	PCB-133/142	1.16e+08	1.25	y	0.82	42:22	0.982	0.977-0.987	111.081
PCB-113	6.64e+07	1.61	y	1.41	37:41	1.007	1.002-1.012	60.3989	PCB-131	6.48e+07	1.25	y	0.91	42:33	0.986	0.981-0.991	56.0021
PCB-99	5.49e+07	1.63	y	1.34	37:47	1.009	1.004-1.014	52.7293	PCB-146/165	1.70e+08	1.26	y	1.25	42:46	0.991	0.986-0.996	107.203
PCB-119	6.18e+07	1.58	y	1.53	38:14	0.987	0.982-0.992	54.5387	PCB-132/161	1.49e+08	1.27	y	1.10	43:01	0.997	0.992-1.002	105.777
PCB-108/112	1.03e+08	1.61	y	1.28	38:23	0.991	0.986-0.996	109.227	PCB-153	8.69e+07	1.26	y	1.25	43:10	1.000	0.995-1.005	54.6269
PCB-83	1.03e+08	1.61	y	1.52	38:23	0.991	0.990-1.000	92.1054	PCB-168	1.00e+08	1.26	y	1.45	43:23	1.005	1.001-1.011	54.2399
PCB-97	4.76e+07	1.58	y	1.18	38:45	1.000	0.995-1.005	54.5050	PCB-141	6.94e+07	1.25	y	1.09	43:55	1.000	0.995-1.005	53.2407
PCB-86	3.60e+07	1.58	y	0.84	38:54	1.004	0.999-1.009	57.7484	PCB-137	7.06e+07	1.24	y	1.06	44:18	1.009	1.004-1.014	55.3602
B-87/117/125	1.84e+08	1.60	y	1.55	39:01	1.007	1.002-1.012	160.692	PCB-130	6.18e+07	1.27	y	0.96	44:24	1.011	1.006-1.016	53.3299
PCB-111/115	1.36e+08	1.61	y	1.63	39:11	1.012	1.006-1.016	113.022	PCB-138/163/164	2.54e+08	1.27	y	1.29	44:47	1.001	0.996-1.006	158.996
PCB-85/116	1.04e+08	1.62	y	1.30	39:19	1.015	1.010-1.020	108.032	PCB-158/160	1.81e+08	1.25	y	1.34	45:02	1.006	1.001-1.011	109.211
PCB-120	6.68e+07	1.59	y	1.68	39:33	1.021	1.016-1.026	53.9396	PCB-129	5.79e+07	1.27	y	0.85	45:16	1.012	1.007-1.017	54.7858
PCB-110	6.38e+07	1.61	y	1.56	39:42	1.025	1.020-1.030	55.4767	PCB-166	9.31e+07	1.27	y	1.19	45:44	0.994	0.988-0.998	54.9950
PCB-82	4.16e+07	1.60	y	0.76	40:19	0.976	0.971-0.981	56.1089	PCB-159	8.86e+07	1.26	y	1.11	46:02	1.000	0.996-1.006	55.8075
PCB-124	7.75e+07	1.67	y	1.47	41:00	0.993	0.988-0.998	53.9515	PCB-128/162	1.54e+08	1.26	y	1.05	46:19	1.006	1.002-1.012	102.966
PCB-107/109	1.42e+08	1.60	y	1.32	41:08	0.996	0.991-1.001	109.740	PCB-167	9.90e+07	1.26	y	1.20	46:44	1.000	0.995-1.005	55.0469
PCB-123	6.26e+07	1.66	y	1.17	41:20	1.001	0.996-1.006	54.8080	PCB-156	9.13e+07	1.26	y	1.14	48:01	1.000	0.996-1.006	54.4325
- PCB-106/118	1.32e+08	1.61	y	1.17	41:31	1.001	0.996-1.006	110.147	PCB-157	9.34e+07	1.28	y	1.16	48:17	1.000	0.995-1.005	52.2740
- PCB-114	1.01e+08	1.56	y	1.30	42:10	1.001	0.995-1.005	49.8761	PCB-169	8.81e+07	1.28	y	1.12	50:25	1.000	0.995-1.005	52.8257
PCB-122	8.83e+07	1.56	y	1.12	42:18	1.004	0.999-1.009	50.4286									
PCB-105	1.01e+08	1.58	y	1.30	43:02	1.001	0.995-1.005	49.5809	PCB-188	7.63e+07	1.06	y	1.58	42:49	1.001	0.996-1.006	54.4611
PCB-127	1.13e+08	1.58	y	1.33	43:21	1.000	0.996-1.006	49.9647	PCB-184	7.84e+07	1.07	y	1.63	43:16	1.011	1.006-1.016	54.2544
PCB-126	9.36e+07	1.62	y	1.18	45:16	1.000	0.995-1.005	51.6735	PCB-179	6.25e+07	1.03	y	1.30	44:03	1.029	1.024-1.034	54.0690
									PCB-176	7.03e+07	1.08	y	1.48	44:31	1.040	1.035-1.045	53.7098
PCB-155	3.85e+07	1.30	y	1.11	36:60	1.001	0.966-1.006	54.0068	PCB-186	7.07e+07	1.07	y	1.45	45:07	1.054	1.050-1.060	54.8823
PCB-150	3.66e+07	1.27	y	1.00	38:15	1.035	1.030-1.040	57.2425	PCB-178	5.16e+07	1.08	y	1.03	45:36	1.066	1.061-1.071	56.2908
PCB-152	3.96e+07	1.29	y	1.12	38:45	1.048	1.043-1.053	55.4780	PCB-175	5.23e+07	1.07	y	1.01	45:57	1.074	1.069-1.079	58.3338
PCB-145	4.35e+07	1.28	y	1.20	39:11	1.060	1.055-1.065	56.6105	PCB-182/187	1.23e+08	1.07	y	1.25	46:08	1.078	1.073-1.083	111.380
PCB-136	4.29e+07	1.28	y	1.18	39:30	1.069	1.064-1.074	56.9265	PCB-183	5.88e+07	1.07	y	1.21	46:26	1.085	1.081-1.091	54.8864
PCB-148	2.82e+07	1.32	y	0.74	39:36	1.071	1.066-1.076	59.2033	PCB-185	6.66e+07	1.08	y	1.80	47:07	0.956	0.951-0.961	54.4199
PCB-154	3.29e+07	1.29	y	0.86	40:06	1.085	1.080-1.090	59.8505	PCB-174	5.04e+07	1.05	y	1.38	47:28	0.963	0.958-0.968	53.8752
PCB-151	2.87e+07	1.30	y	0.75	40:44	1.102	1.097-1.107	60.0085	PCB-181	5.70e+07	1.09	y	1.38	47:35	0.965	0.960-0.970	60.7653
PCB-135	3.23e+07	1.28	y	0.79	40:58	1.108	1.103-1.113	63.6620	PCB-177	4.84e+07	1.04	y	1.26	47:45	0.969	0.963-0.973	56.7912
PCB-144	2.86e+07	1.28	y	0.76	41:04	1.111	1.105-1.117	58.7031	PCB-171	6.01e+07	1.07	y	1.58	48:02	0.975	0.970-0.980	55.9325
PCB-147	3.23e+07	1.30	y	0.82	41:12	1.114	1.109-1.121	61.6371	PCB-173	4.36e+07	1.05	y	1.11	48:28	0.983	0.978-0.988	57.7759
PCB-139/149	5.95e+07	1.28	y	0.76	41:28	1.121	1.116-1.128	122.027	PCB-172	6.31e+07	1.06	y	1.63	48:54	0.992	0.987-0.997	56.8066
- PCB-140	2.82e+07	1.31	y	0.72	41:39	1.127	1.121-1.133	61.0174	PCB-192	6.78e+07	1.06	y	1.74	49:07	0.996	0.991-1.001	57.3560
- PCB-134/143	1.29e+08	1.26	y	0.92	42:05	0.975	0.970-0.980	110.271	PCB-180	5.08e+07	1.06	y	1.34	49:19	1.000	0.995-1.005	55.6187

Integrations

by

RL: MONO, TRI - DECA: _____

Analyst: *Dms*

Date: *2/21/15*

Client ID: OPR
Lab ID: B5B0069-BS1

Filename: 150219E2 S:3 Acq:19-FEB-15 16:15:42
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000

ConCal: ST150219E2-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	6.38e+07	1.06 y	1.72	49:31	1.005	0.999-1.009		54.7457
PCB-191	6.28e+07	1.06 y	1.69	49:45	1.009	1.004-1.014		54.5434
PCB-170	4.93e+07	1.05 y	1.60	50:47	1.000	0.995-1.005		55.2006
PCB-190	6.78e+07	1.07 y	2.21	50:57	1.004	0.998-1.008		54.9381
PCB-189	6.31e+07	1.07 y	1.55	52:15	1.000	0.995-1.005		54.3099
PCB-202	4.09e+07	0.91 y	1.08	48:14	1.000	0.995-1.005		51.6364
PCB-201	4.50e+07	0.91 y	1.15	48:44	1.011	1.005-1.015		53.3995
PCB-204	4.39e+07	0.92 y	1.14	48:53	1.014	1.008-1.018		52.6338
PCB-197	4.10e+07	0.91 y	1.07	49:12	1.020	1.015-1.025		52.0690
PCB-200	4.12e+07	0.90 y	1.06	50:04	1.038	1.032-1.044		52.9284
PCB-198	3.11e+07	0.89 y	0.76	51:21	1.065	1.059-1.069		56.1928
PCB-199	3.28e+07	0.91 y	0.80	51:28	1.068	1.061-1.071		56.0921
- PCB-196/203	6.64e+07	0.90 y	0.80	51:44	1.073	1.066-1.076		113.185
- PCB-195	5.85e+07	0.91 y	1.23	52:53	0.984	0.979-0.989		48.2245
PCB-194	5.75e+07	0.91 y	1.21	53:46	1.000	0.995-1.005		47.9506
PCB-205	7.59e+07	0.91 y	1.54	54:03	1.006	1.001-1.011		49.7898
PCB-208	6.53e+07	1.32 y	0.93	53:02	1.000	0.995-1.005		52.6262
PCB-207	7.85e+07	1.33 y	1.08	53:21	1.006	1.001-1.011		54.3686
PCB-206	4.91e+07	1.34 y	1.02	55:27	1.000	0.995-1.005		53.4834
PCB-209	5.41e+07	1.18 y	1.17	56:48	1.000	0.995-1.005		53.6223

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	1.97e+08	3.01 y	16:08	1.27	149.537
Total Di-PCB	1.92e+09	1.60 y	20:05	1.21	1174.65
Total Tri-PCB	5.71e+08	1.06 y	24:11	1.10	439.642
Total Tri-PCB	1.67e+09	1.08 y	27:52	1.21	834.389
Total Tetra-PCB	3.75e+09	0.78 y	27:56	1.09	2394.19
Total Penta-PCB	2.26e+09	1.60 y	32:37	1.18	2276.32
Total Penta-PCB	5.23e+08	1.56 y	42:10	1.25	264.590
Total Hexa-PCB	4.72e+08	1.30 y	36:60	0.90	826.373
Total Hexa-PCB	2.25e+09	1.26 y	42:05	1.11	1532.03
Total Hepta-PCB	1.47e+09	1.06 y	42:49	1.42	1348.73
Total Octa-PCB	3.42e+08	0.91 y	48:14	0.96	488.137
Total Octa-PCB	1.99e+08	0.91 y	52:53	1.33	151.363
Total Nona-PCB	1.95e+08	1.32 y	53:02	1.01	162.115
Total Deca-PCB	5.41e+07	1.18 y	56:48	1.17	53.6223

Total PCB Conc:12111.9112210

RL: MONO, TRI - DECA: _____

Integrations

by

Analyst: Dms

Date: 2/21/15

Client ID: OPR
Lab ID: B5B0069-BS1

Filename: 150219E2 S:3 Acq:19-FEB-15 16:15:42
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:1.0000

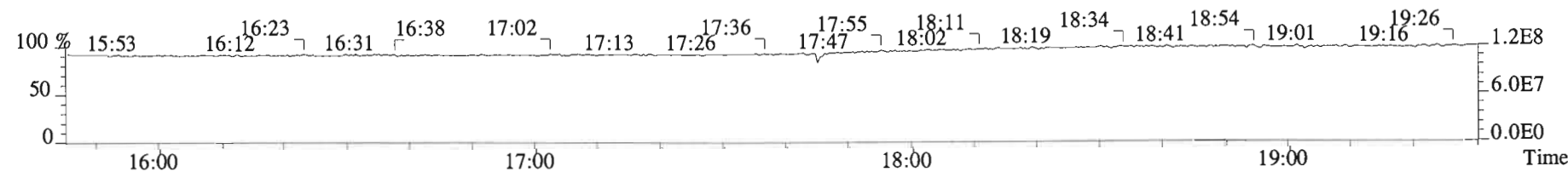
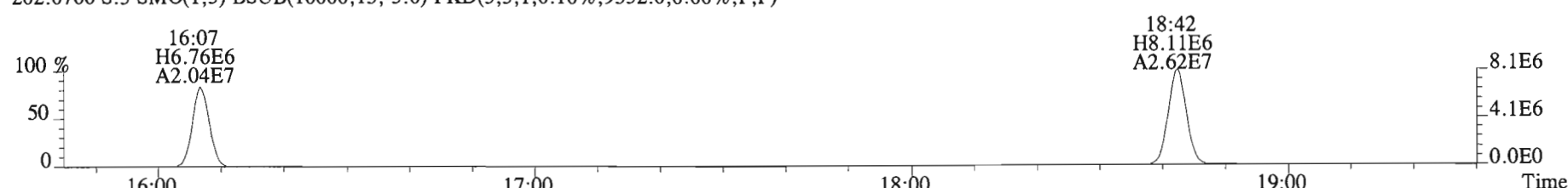
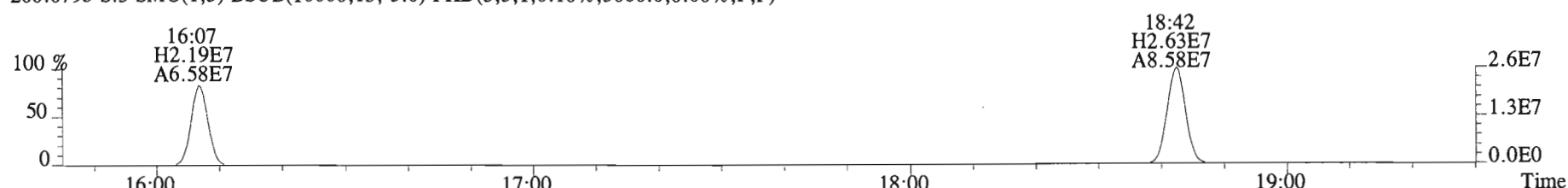
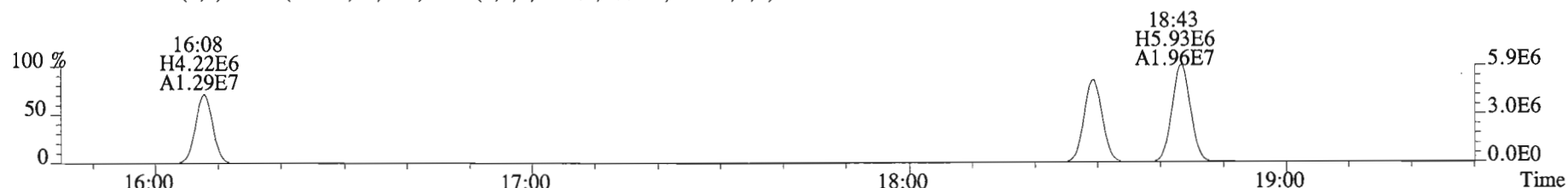
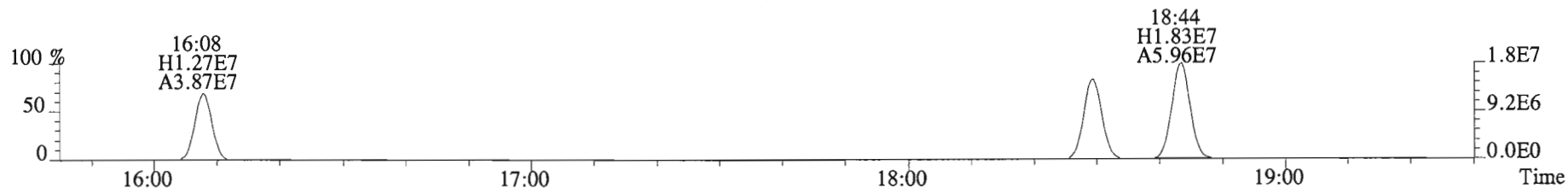
ConCal: ST150219E2-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	8.63e+07	3.22	y	0.87	16:07	0.623	0.629-0.635	37.1	37.1											
13C-PCB-3	1.12e+08	3.27	y	0.91	18:42	0.723	0.725-0.733	46.0	46.0		13C-PCB-79	1.91e+08	0.80	y	1.02	37:45	1.029	1.023-1.034	89.0	89.0
13C-PCB-4	7.75e+07	1.56	y	0.59	20:02	0.774	0.775-0.783	49.5	49.5		13C-PCB-178	6.26e+07	0.47	y	0.61	45:35	0.984	0.979-0.990	79.8	79.8
13C-PCB-9	1.24e+08	1.56	y	0.90	21:49	0.843	0.842-0.850	51.7	51.7											
13C-PCB-11	1.66e+08	1.57	y	0.94	25:10	0.973	0.968-0.978	66.5	66.5											
13C-PCB-19	8.10e+07	1.10	y	0.53	24:10	0.934	0.930-0.940	57.1	57.1											
13C-PCB-28	1.59e+08	1.09	y	0.93	29:02	1.004	0.999-1.009	70.4	70.4		13C-PCB-79	1.91e+08	0.80	y	1.10	37:45	0.968	0.964-0.974	101	101
13C-PCB-32	1.37e+08	1.07	y	0.80	27:04	1.046	1.040-1.050	64.6	64.6		13C-PCB-178	6.26e+07	0.47	y	0.90	45:35	0.925	0.920-0.930	103	103
13C-PCB-37	1.82e+08	1.10	y	0.84	32:54	1.138	1.131-1.143	89.2	89.2											
13C-PCB-47	1.27e+08	0.80	y	0.81	31:56	0.870	0.866-0.874	73.8	73.8											
13C-PCB-52	1.19e+08	0.80	y	0.77	31:26	0.856	0.853-0.861	72.6	72.6											
13C-PCB-54	1.22e+08	0.82	y	0.97	27:55	0.761	0.758-0.766	59.6	59.6											
13C-PCB-70	1.71e+08	0.80	y	1.00	35:27	0.966	0.961-0.971	81.1	81.1											
13C-PCB-77	1.80e+08	0.81	y	0.94	39:35	1.078	1.073-1.083	90.1	90.1											
13C-PCB-80	1.80e+08	0.81	y	1.03	35:52	0.977	0.972-0.982	82.5	82.5											
13C-PCB-81	1.72e+08	0.80	y	0.92	38:59	1.062	1.057-1.067	88.0	88.0											
13C-PCB-95	7.00e+07	1.60	y	0.74	35:45	0.913	0.908-0.918	79.3	79.3											
13C-PCB-97	7.39e+07	1.62	y	0.70	38:44	0.989	0.984-0.994	87.9	87.9											
13C-PCB-101	7.80e+07	1.66	y	0.78	37:26	0.956	0.951-0.961	83.4	83.4											
13C-PCB-104	8.68e+07	1.60	y	1.00	32:36	0.832	0.828-0.836	72.7	72.7											
13C-PCB-105	1.57e+08	1.59	y	1.37	43:01	0.929	0.924-0.934	89.9	89.9											
13C-PCB-114	1.56e+08	1.63	y	1.36	42:09	0.910	0.905-0.915	89.6	89.6											
13C-PCB-118	1.02e+08	1.59	y	0.96	41:29	1.059	1.054-1.064	89.3	89.3											
13C-PCB-123	9.78e+07	1.64	y	0.89	41:18	1.055	1.050-1.060	91.6	91.6											
13C-PCB-126	1.53e+08	1.60	y	1.31	45:15	0.977	0.972-0.982	91.6	91.6											
13C-PCB-127	1.70e+08	1.62	y	1.47	43:20	0.936	0.931-0.941	90.0	90.0											
13C-PCB-138	1.24e+08	1.28	y	1.10	44:45	0.966	0.961-0.971	88.0	88.0											
13C-PCB-141	1.20e+08	1.26	y	1.07	43:54	0.948	0.943-0.953	87.4	87.4											
13C-PCB-153	1.27e+08	1.27	y	1.15	43:09	0.932	0.927-0.937	86.8	86.8											
13C-PCB-155	6.40e+07	1.31	y	0.84	36:58	0.944	0.939-0.949	63.9	63.9											
13C-PCB-156	1.48e+08	1.29	y	1.30	48:01	1.037	1.032-1.042	89.0	89.0											
13C-PCB-157	1.54e+08	1.30	y	1.36	48:16	1.042	1.038-1.048	88.4	88.4											
13C-PCB-159	1.43e+08	1.29	y	1.25	46:02	0.994	0.989-0.999	89.5	89.5											
13C-PCB-167	1.50e+08	1.28	y	1.35	46:43	1.009	1.004-1.014	86.7	86.7											
13C-PCB-169	1.49e+08	1.27	y	1.29	50:24	1.088	1.083-1.093	90.7	90.7											
13C-PCB-170	5.58e+07	0.45	y	0.54	50:45	1.096	1.089-1.101	80.5	80.5											
13C-PCB-180	6.79e+07	0.48	y	0.68	49:18	1.065	1.060-1.070	77.6	77.6											
13C-PCB-188	8.86e+07	0.47	y	0.92	42:48	0.924	0.919-0.929	75.5	75.5											
13C-PCB-189	7.50e+07	0.46	y	0.72	52:14	1.128	1.120-1.132	81.9	81.9											
13C-PCB-194	9.90e+07	0.91	y	0.80	53:45	0.995	0.990-1.000	85.9	85.9											
13C-PCB-202	7.32e+07	0.94	y	0.84	48:13	1.041	1.036-1.046	68.3	68.3											
13C-PCB-206	8.97e+07	0.80	y	0.65	55:26	1.026	1.021-1.031	95.6	95.6											
13C-PCB-208	1.33e+08	0.78	y	1.08	53:01	0.981	0.976-0.986	85.4	85.4											
13C-PCB-209	8.61e+07	1.20	y	0.61	56:47	1.051	1.045-1.055	97.7	97.7											

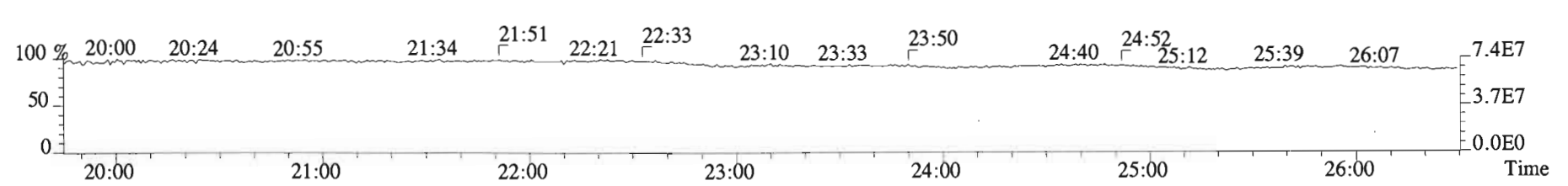
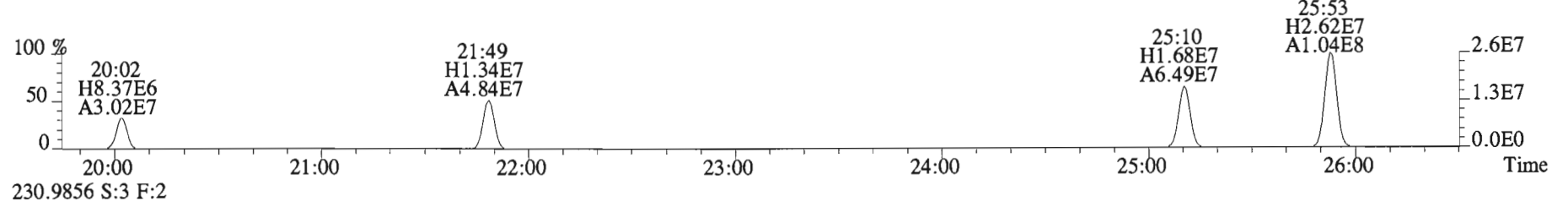
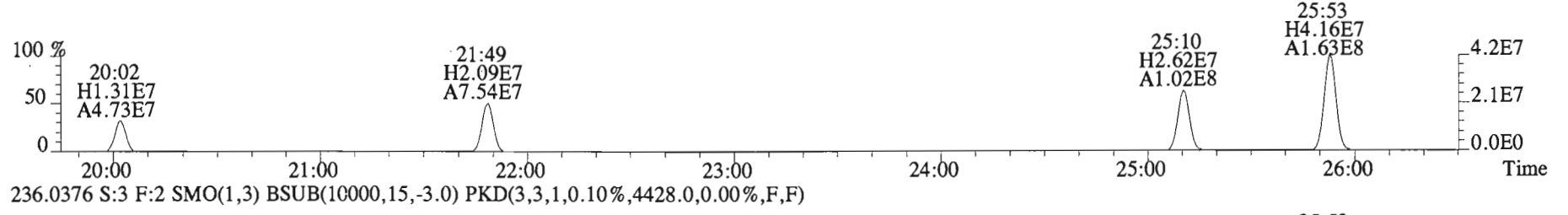
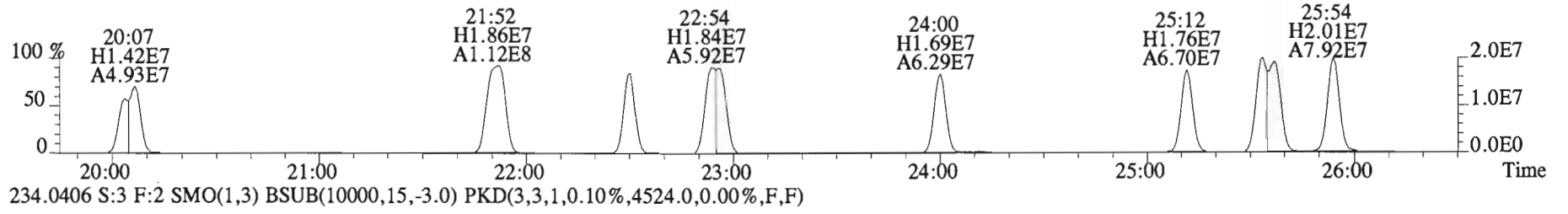
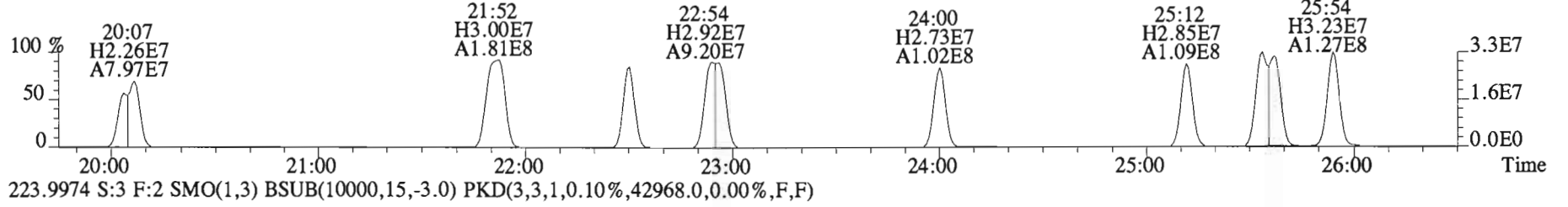
Analyst: *DMS*

Date: *2/21/15*

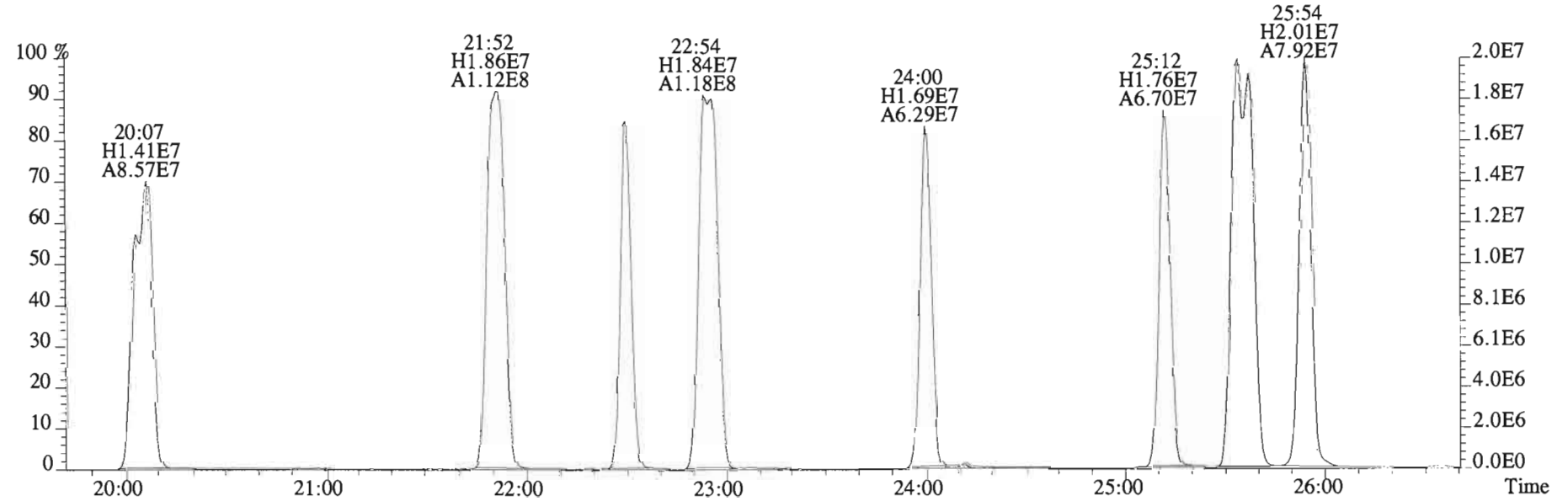
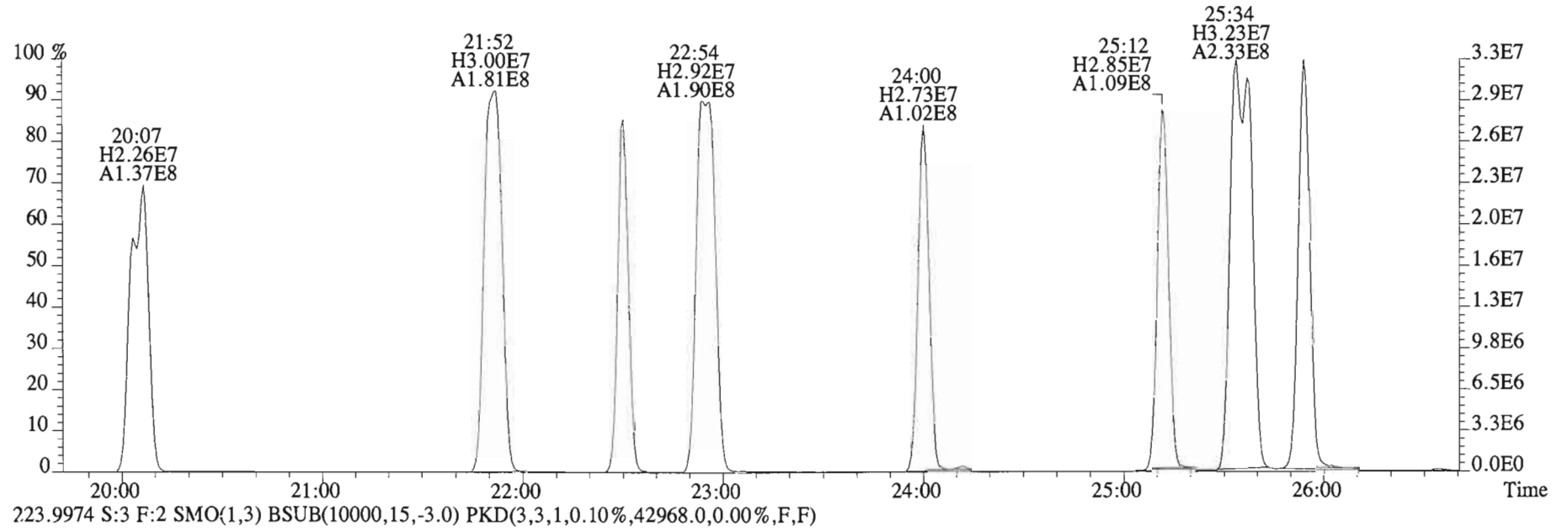
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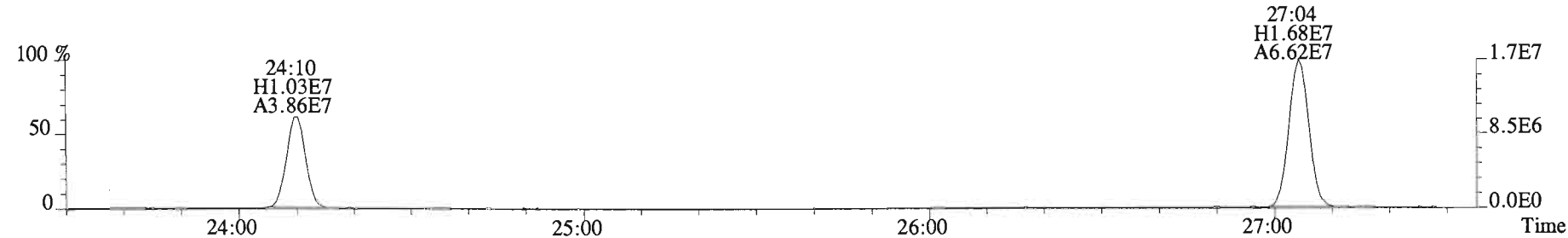
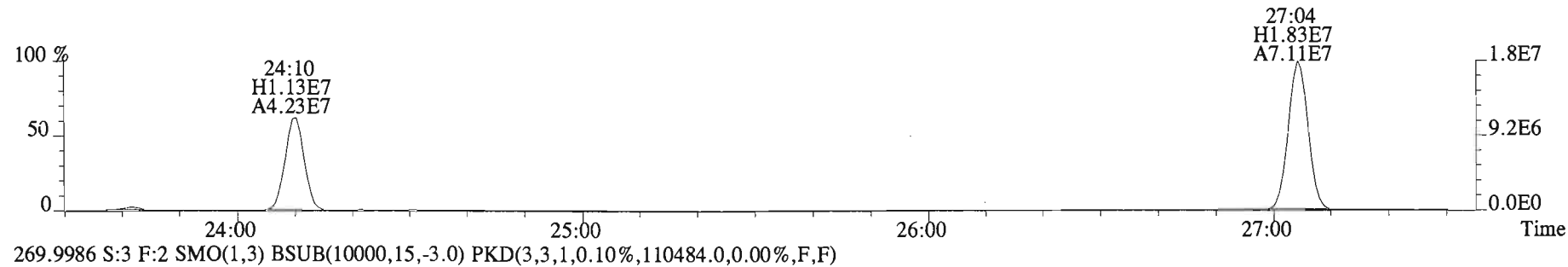
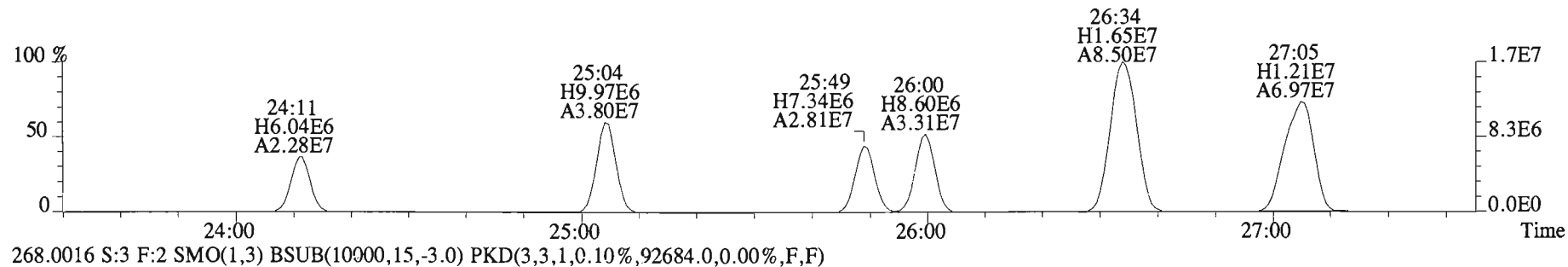
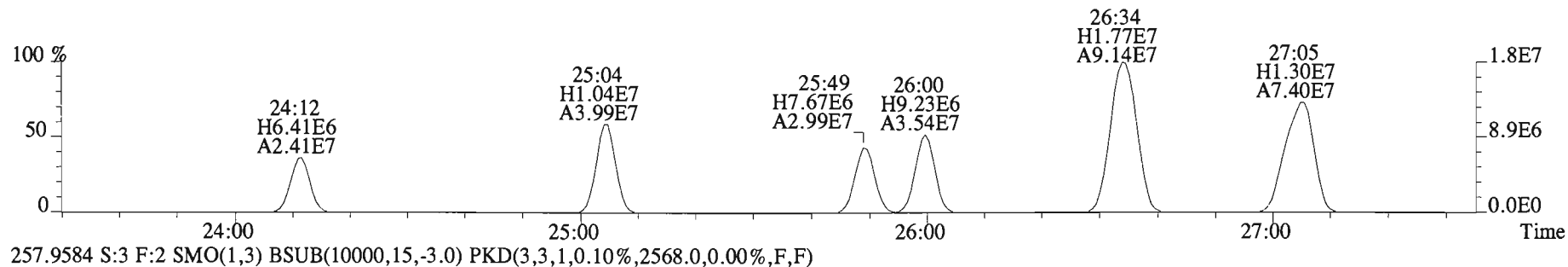
File:150219E2 #1-757 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
 222.0003 S:3 F:2 SMO(1,3) BSM(10000,15,-3.0) PKD(3,3,1,0.10%,14068.0,0.00%,F,F)



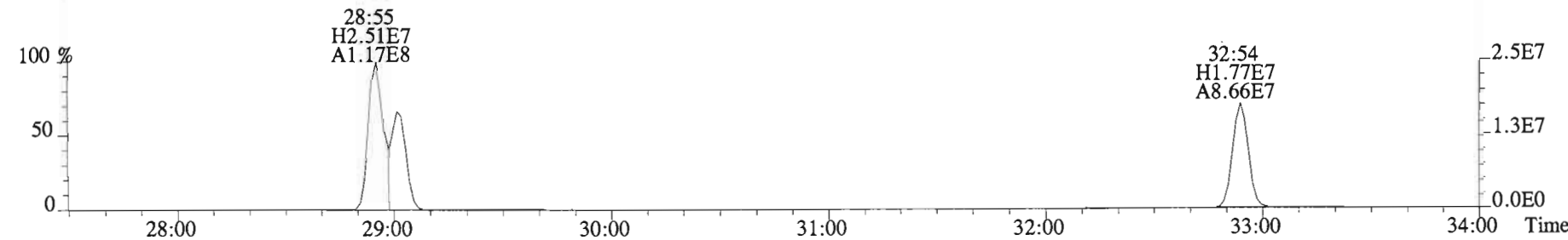
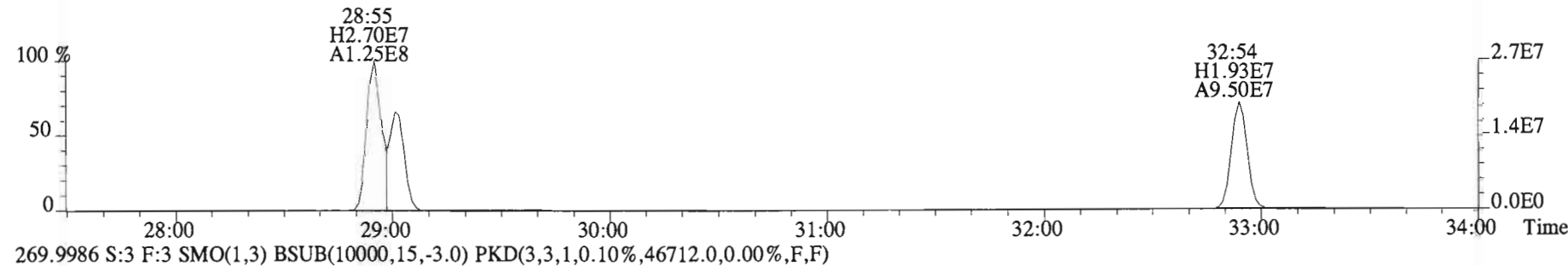
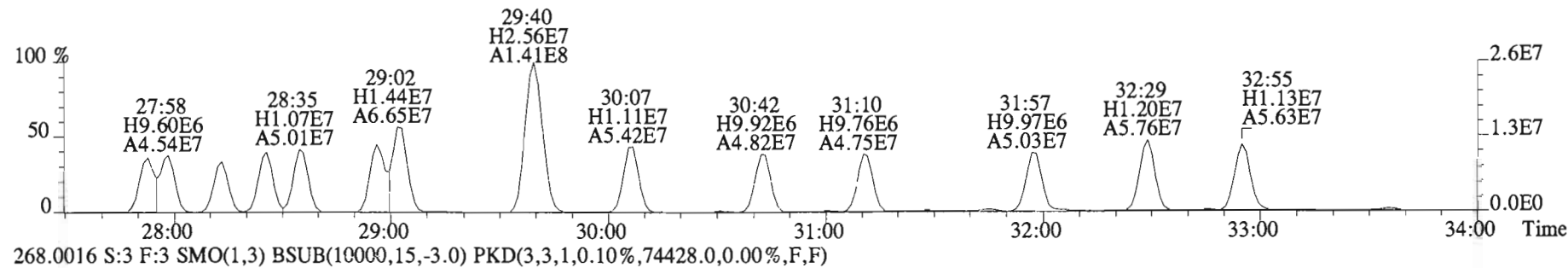
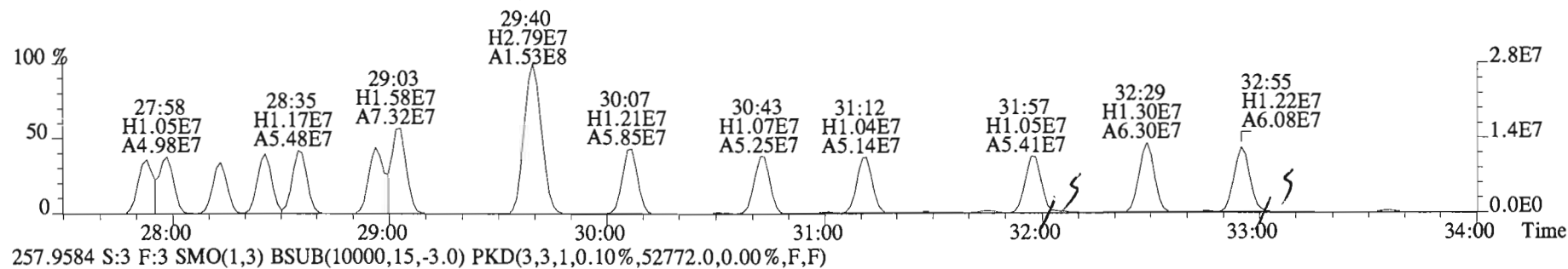
File:150219E2 #1-757 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
 222.0003 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,14068.0,0.00%,F,F)



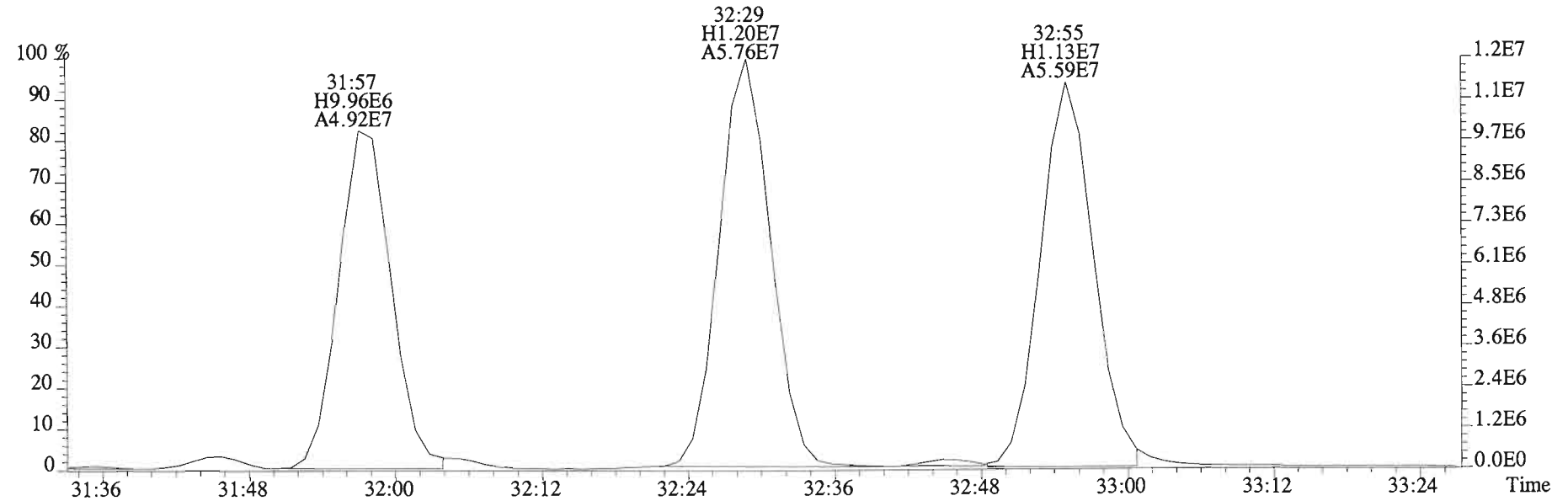
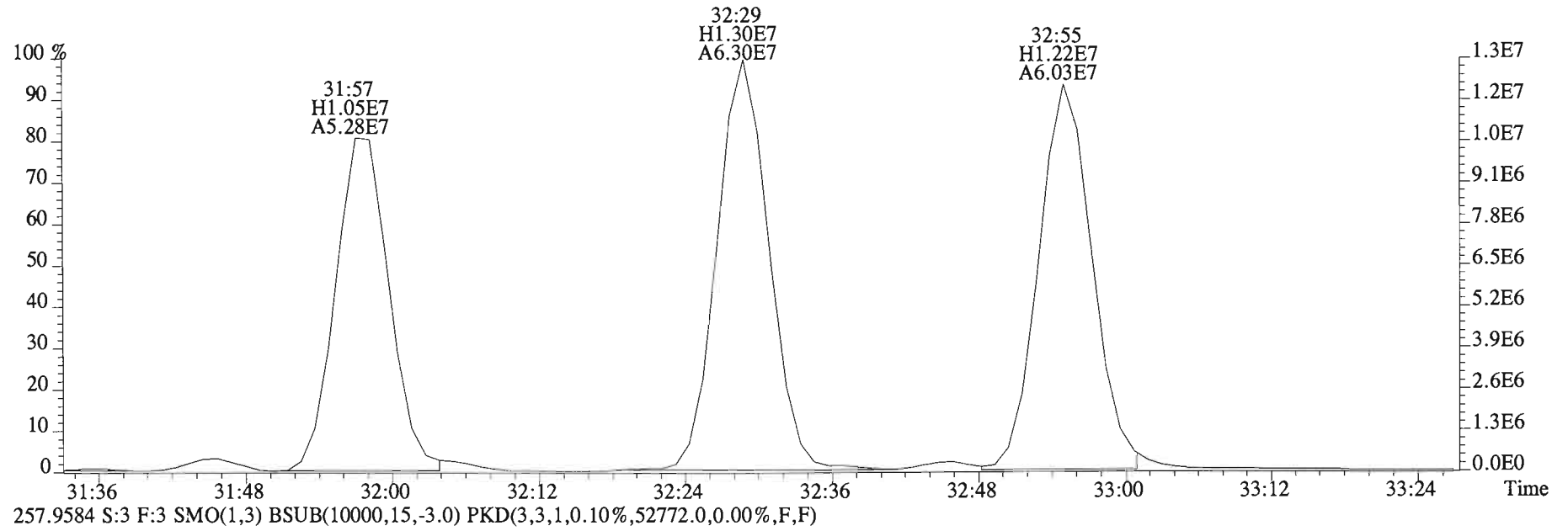
File:150219E2 #1-757 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
255.9613 S:3 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3516.0,0.00%,F,F)



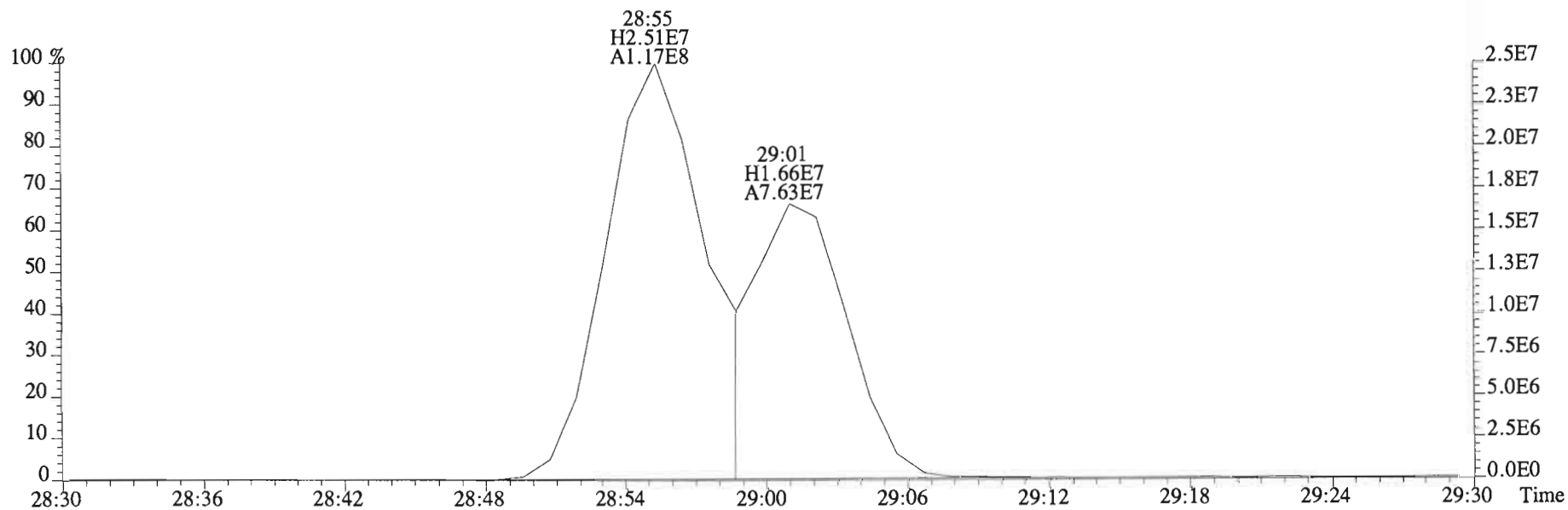
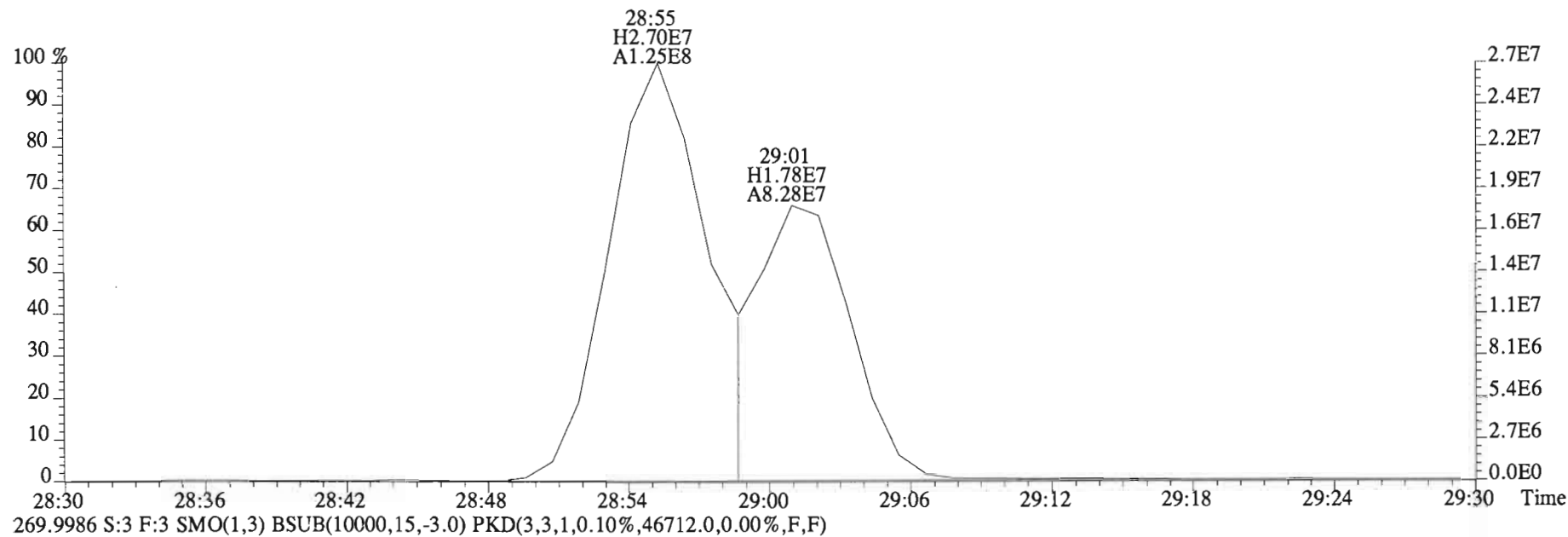
File:150219E2 #1-758 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
255.9613 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,46124.0,0.00%,F,F)



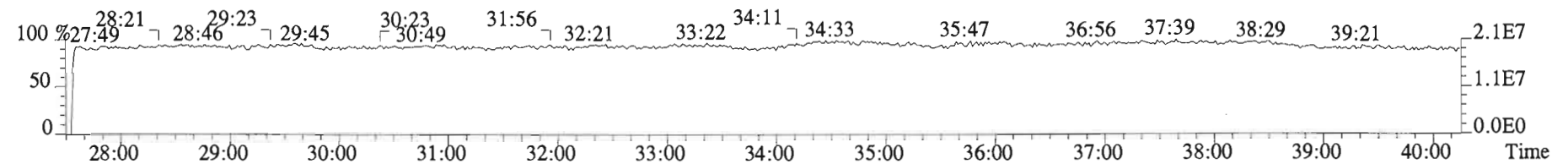
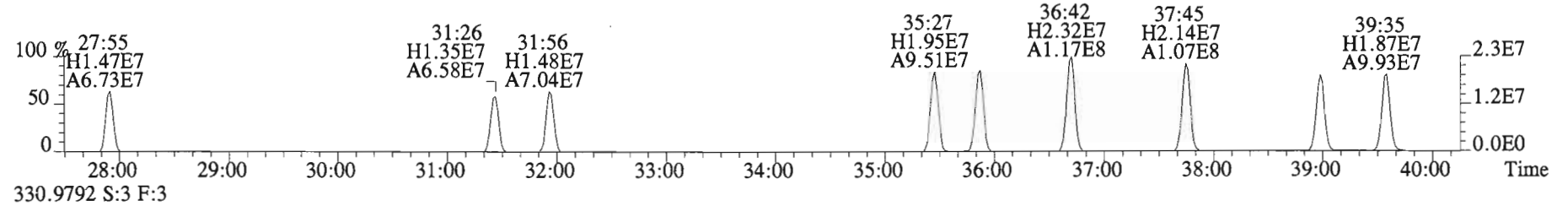
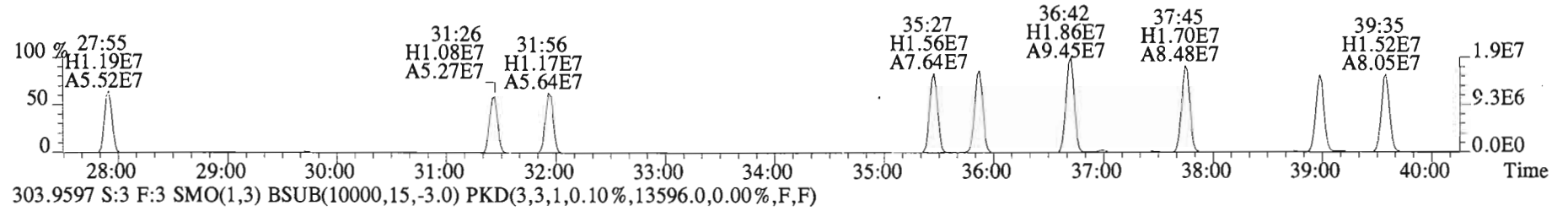
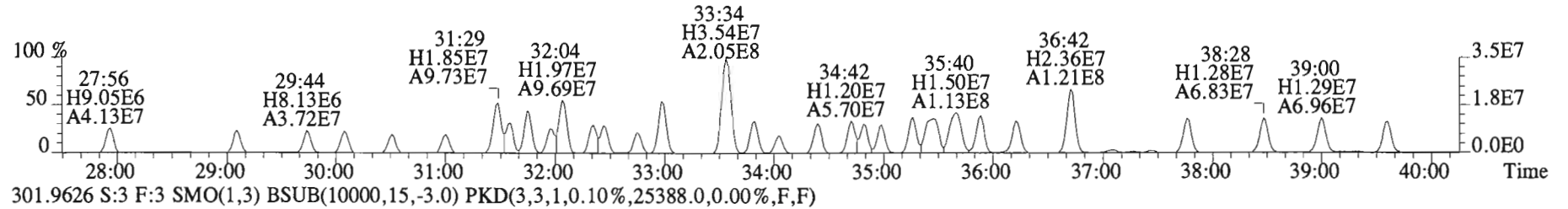
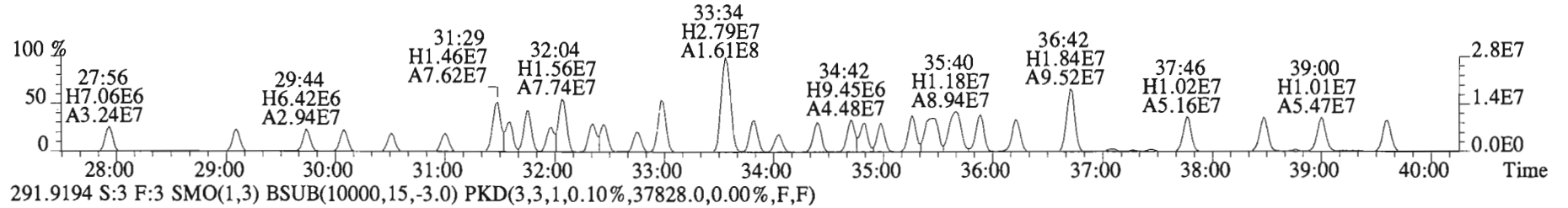
File:150219E2 #1-758 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
255.9613 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,46124.0,0.00%,F,F)



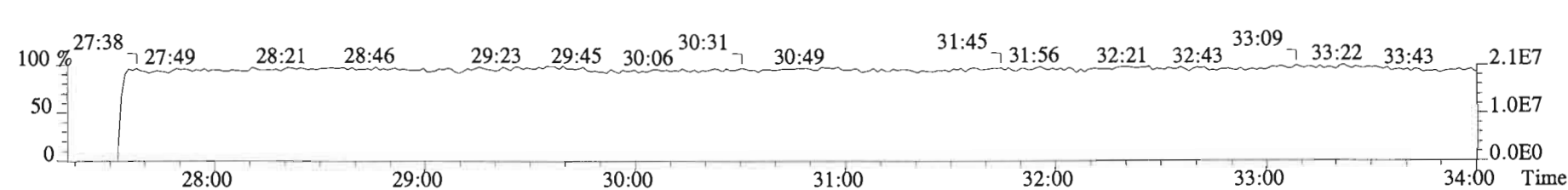
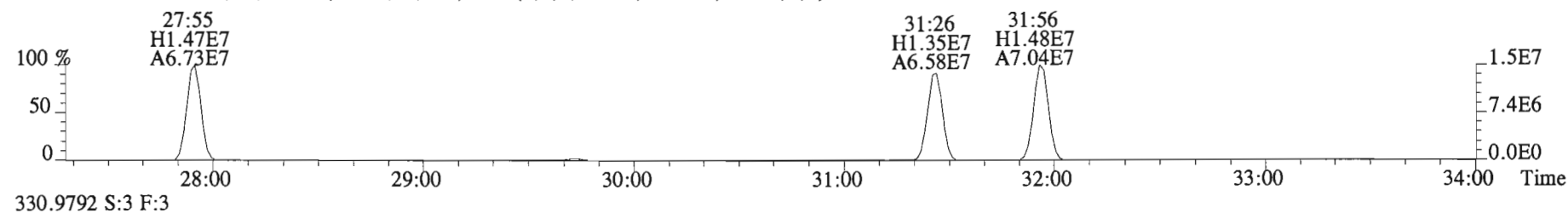
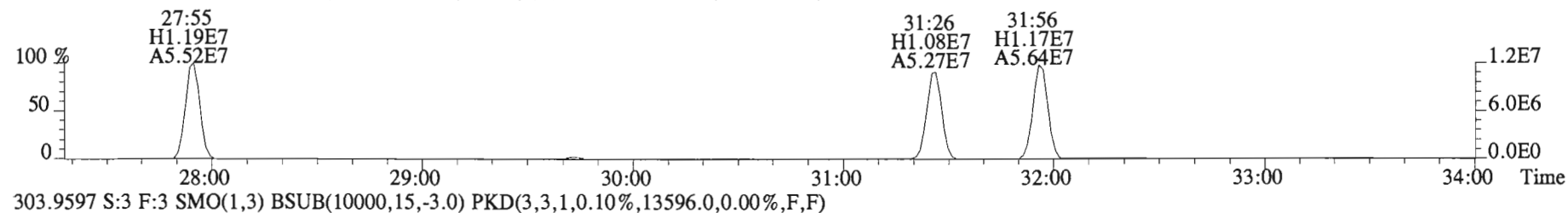
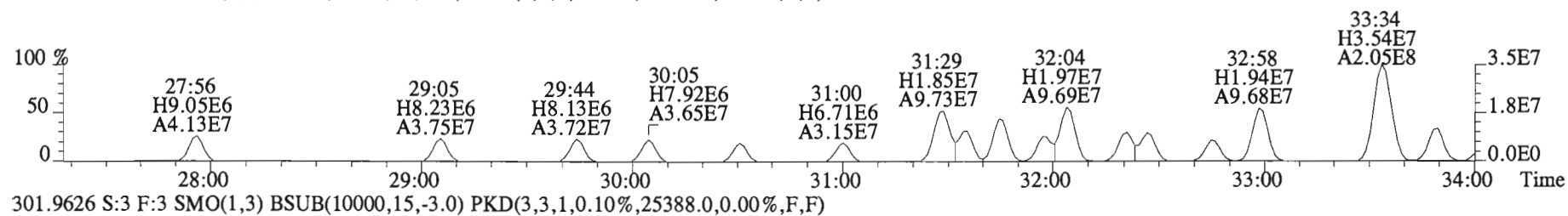
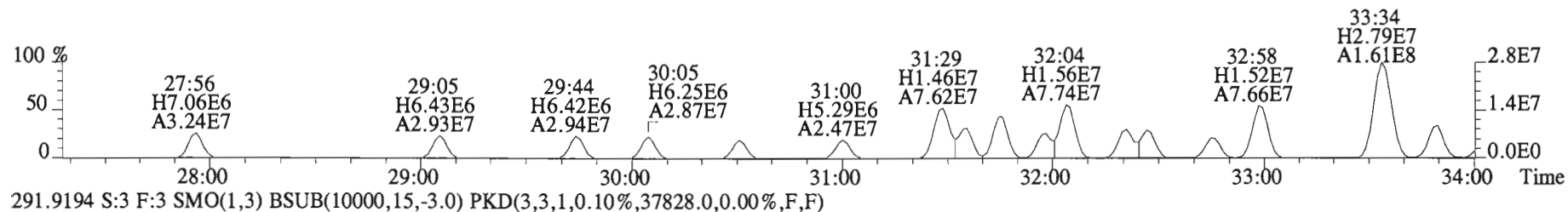
File:150219E2 #1-758 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
268.0016 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,74428.0,0.00%,F,F)



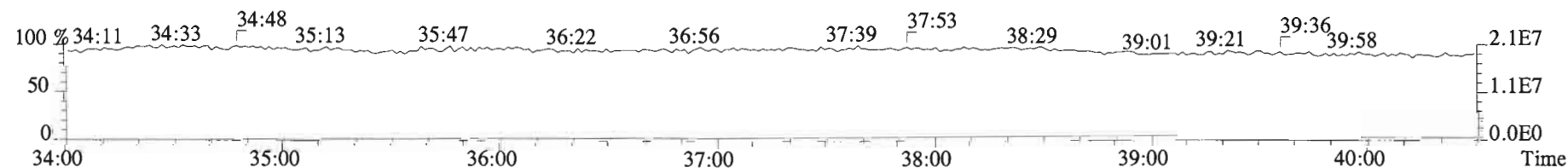
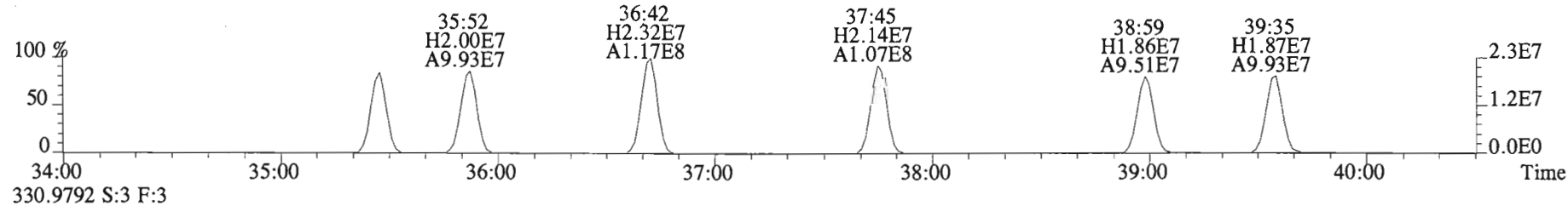
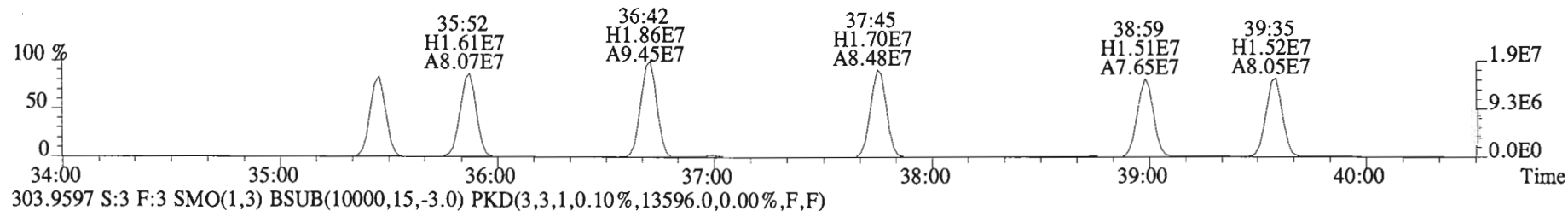
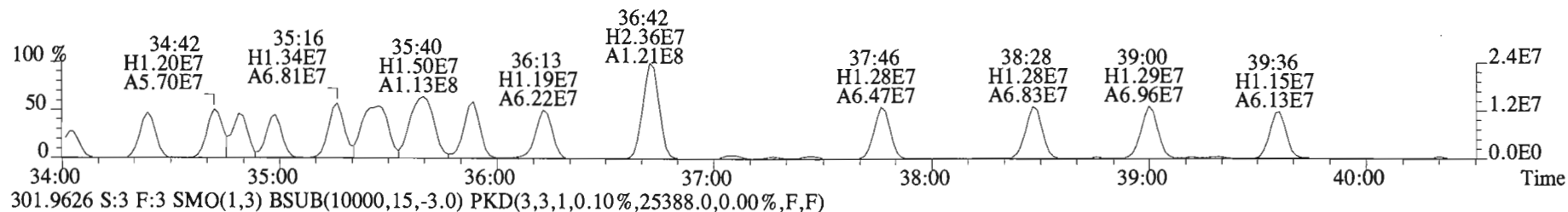
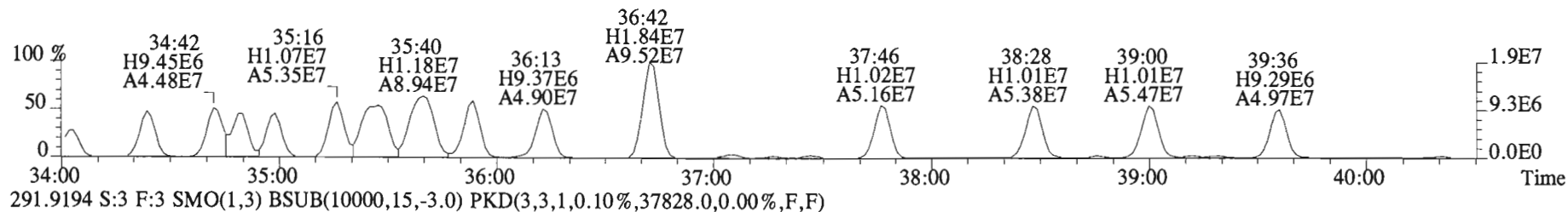
File:150219E2 #1-758 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,29660.0,0.00%,F,F)



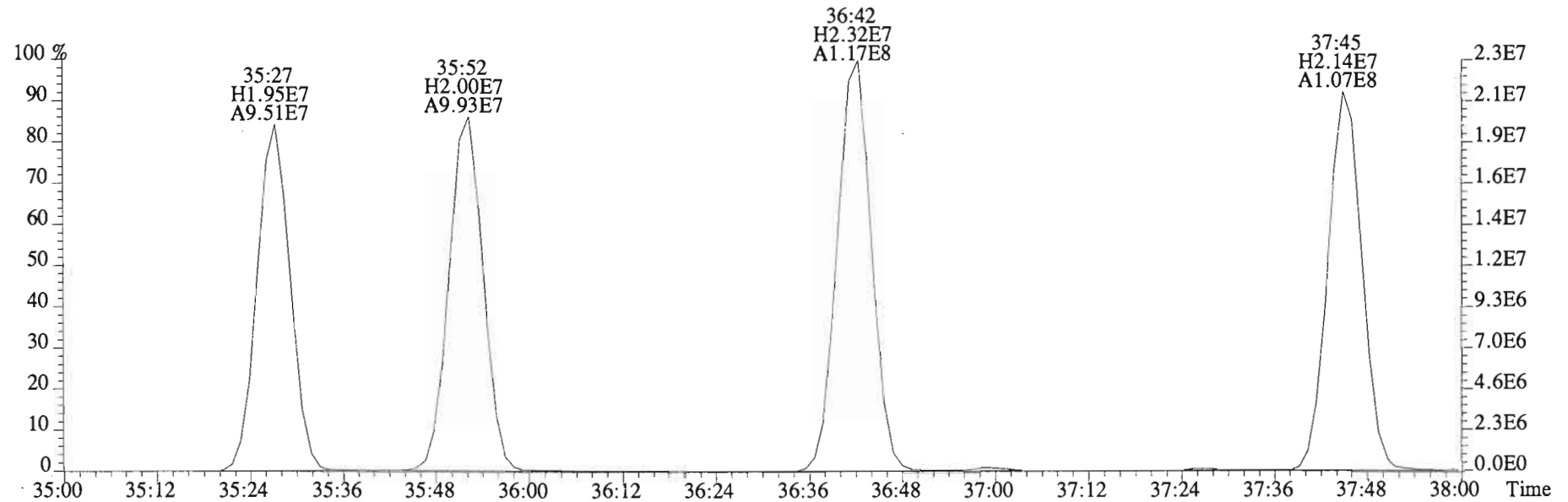
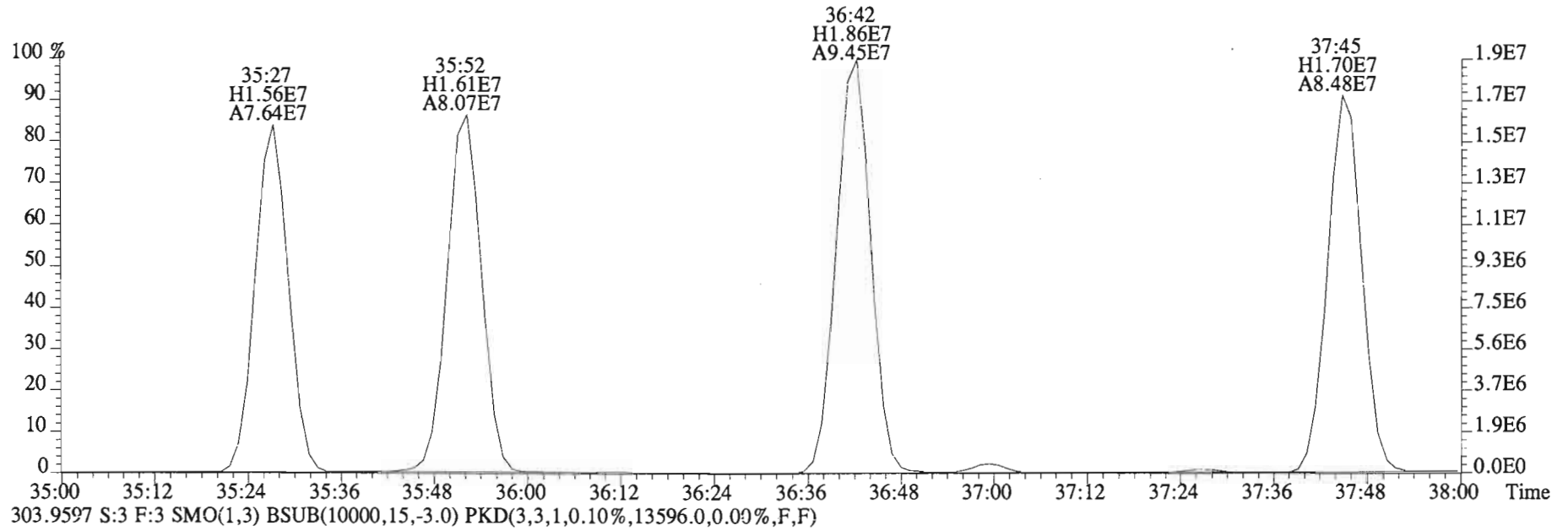
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,29660.0,0.00%,F,F)



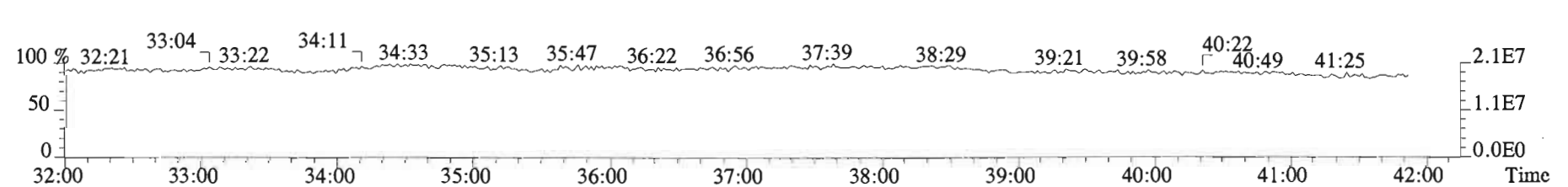
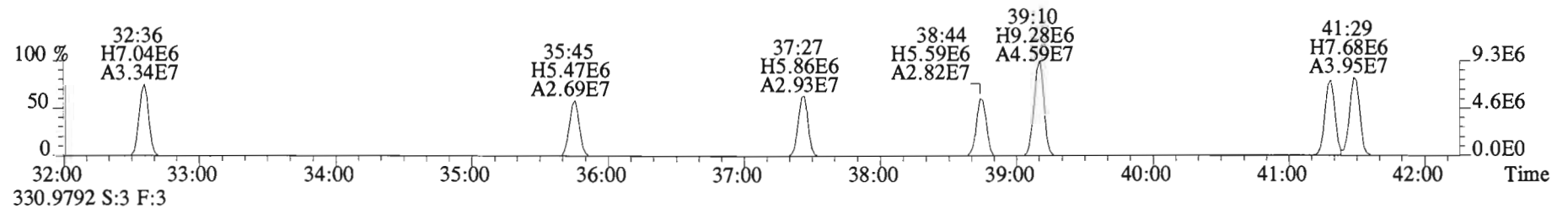
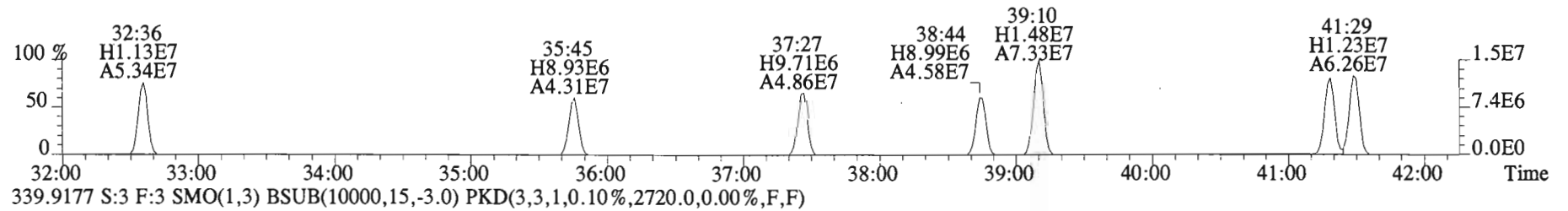
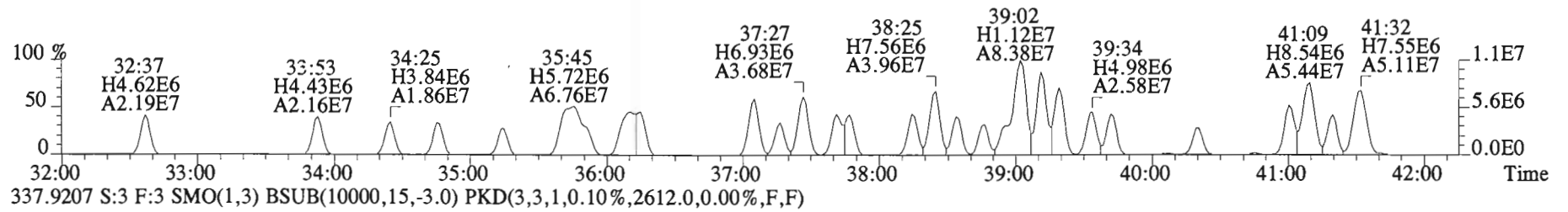
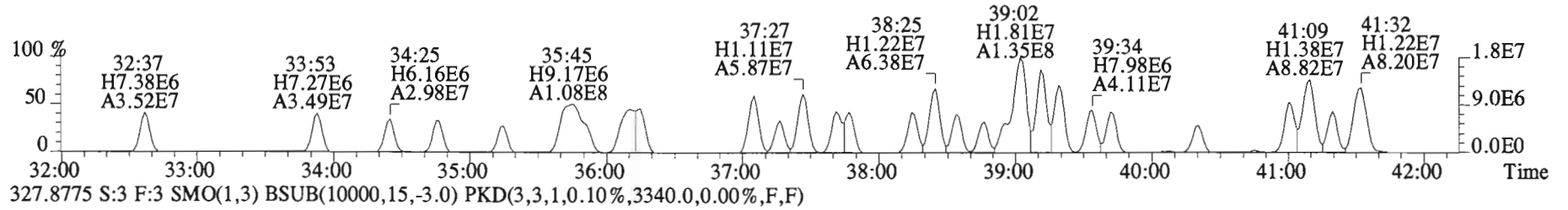
File:150219E2 #1-758 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
 289.9224 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,29660.0,0.00%,F,F)



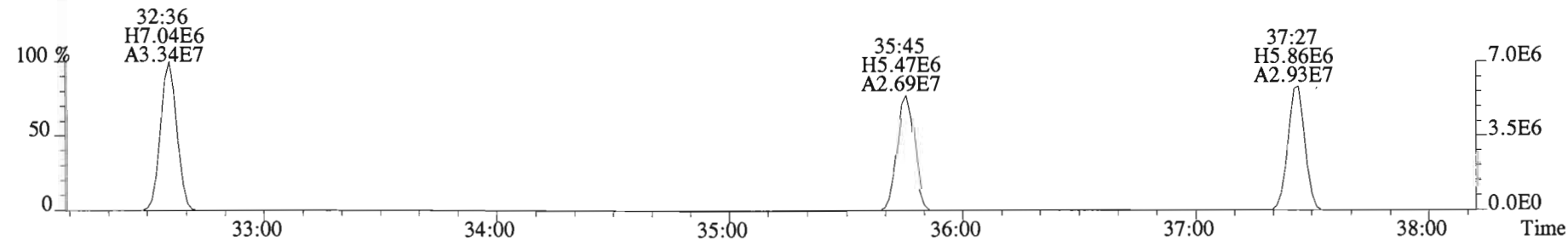
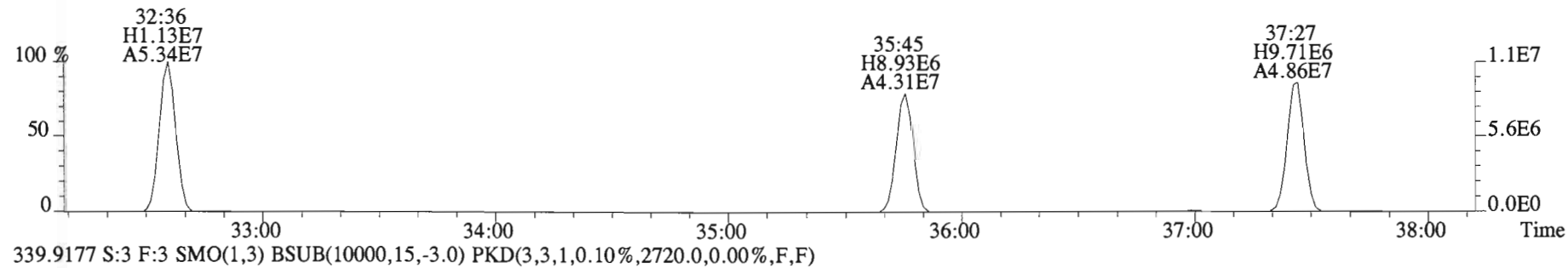
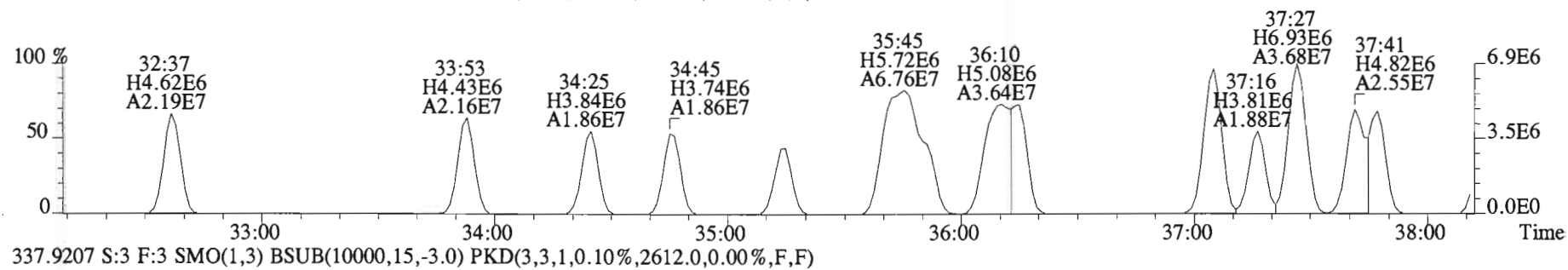
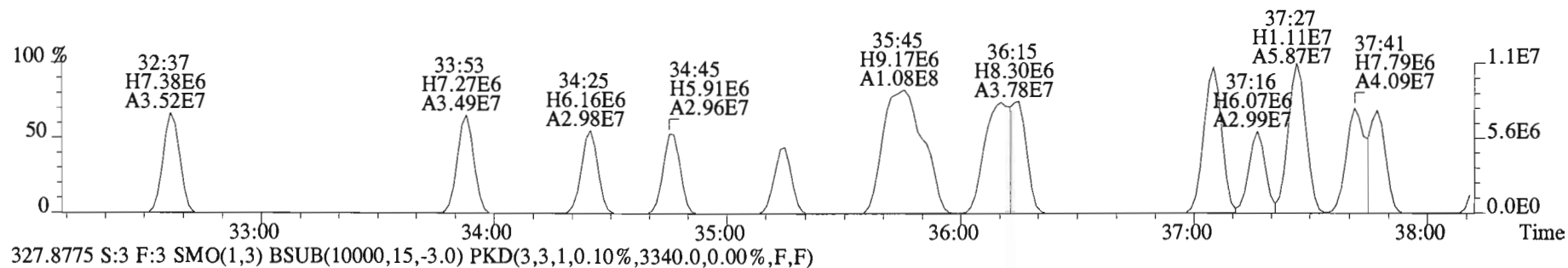
File:150219E2 #1-758 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
301.9626 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,25388.0,0.00%,F,F)



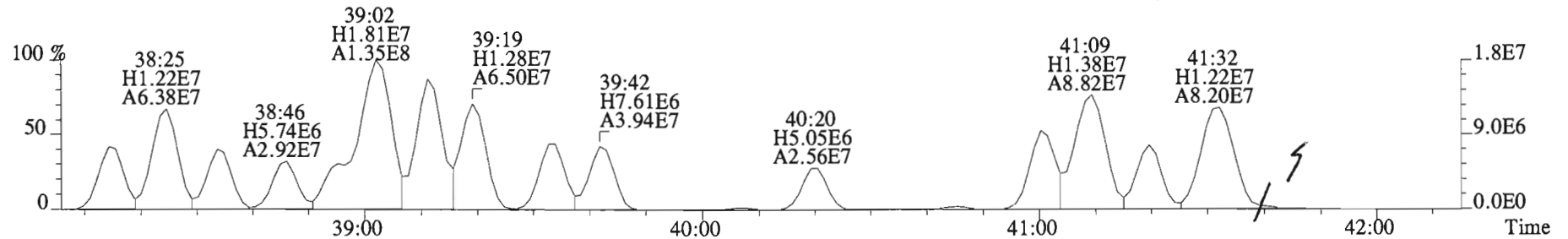
File:150219E2 #1-758 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
 325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1684.0,0.00%,F,F)



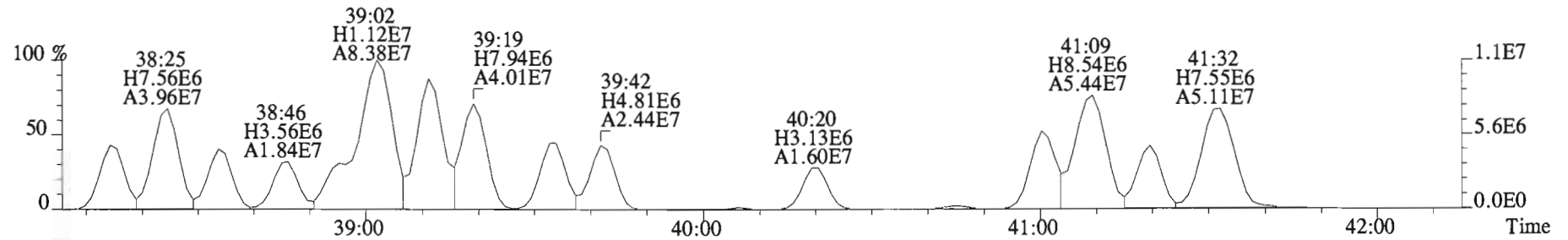
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Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1684.0,0.00%,F,F)



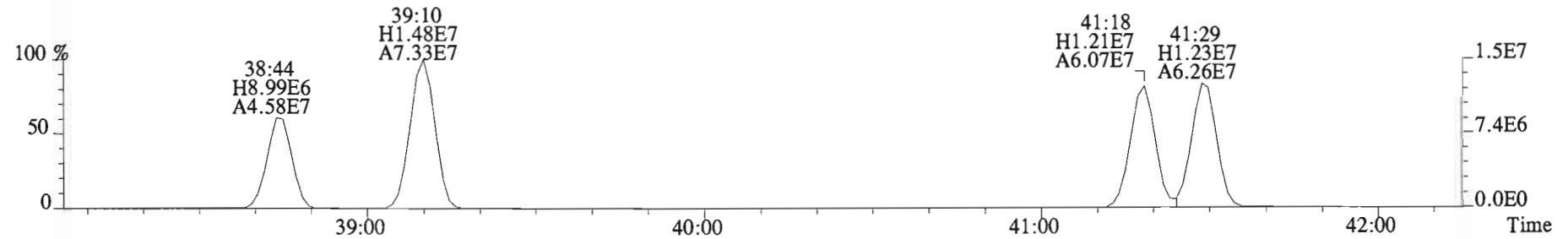
File:150219E2 #1-758 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1684.0,0.00%,F,F)



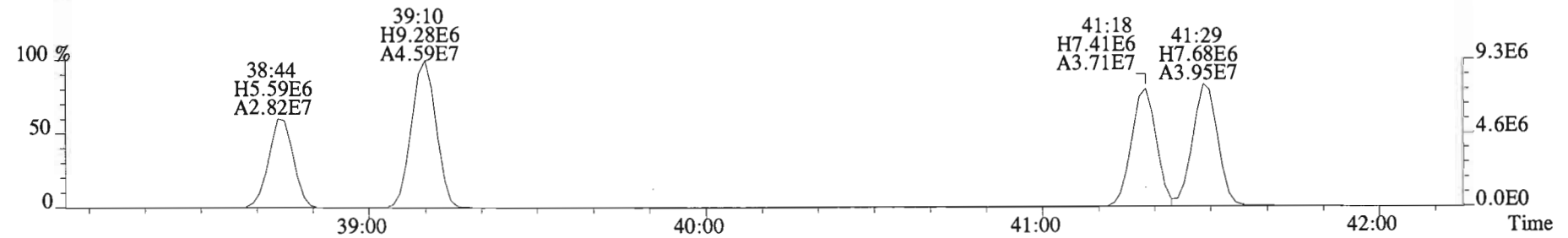
327.8775 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3340.0,0.00%,F,F)



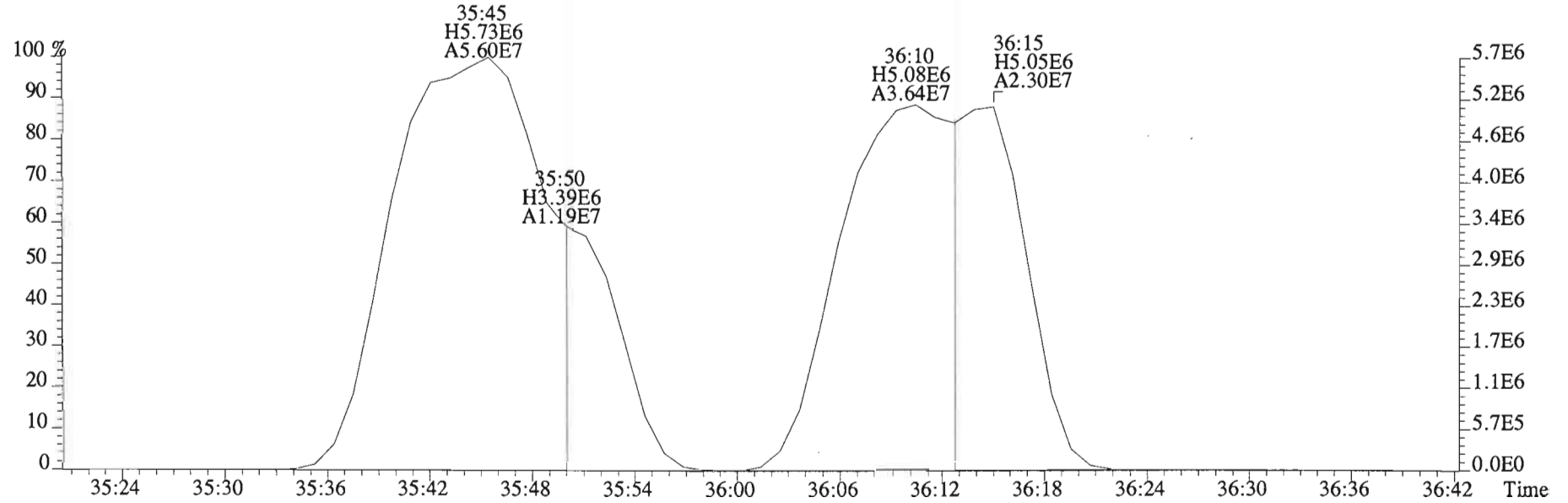
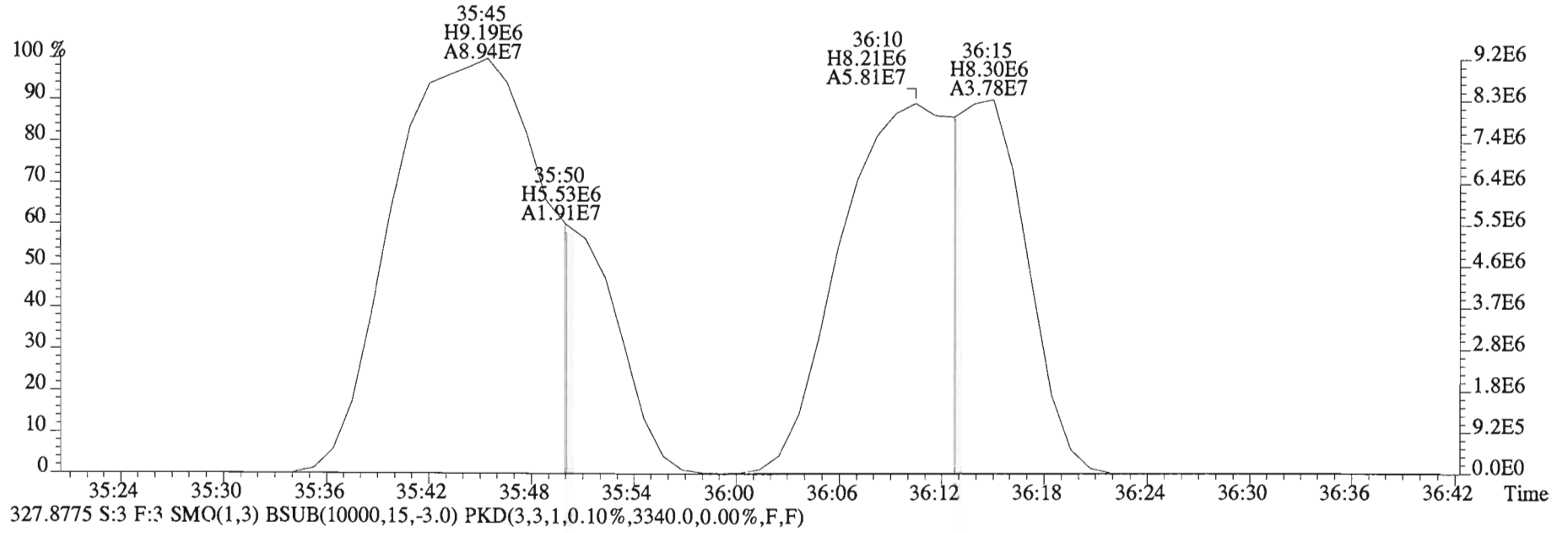
337.9207 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2612.0,0.00%,F,F)



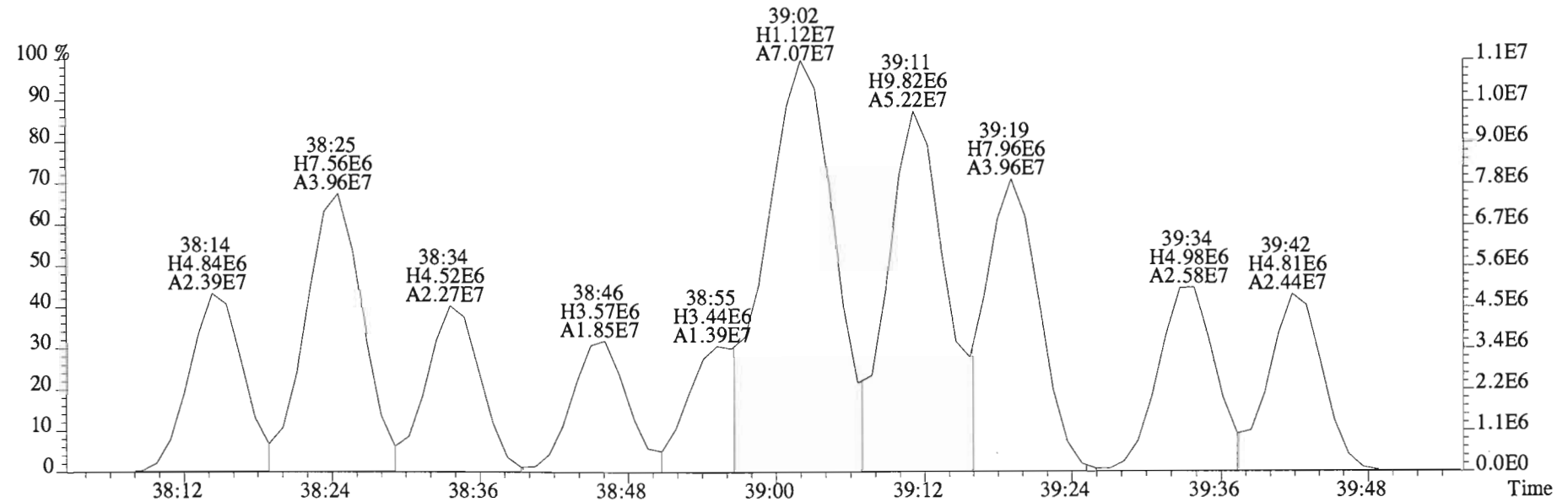
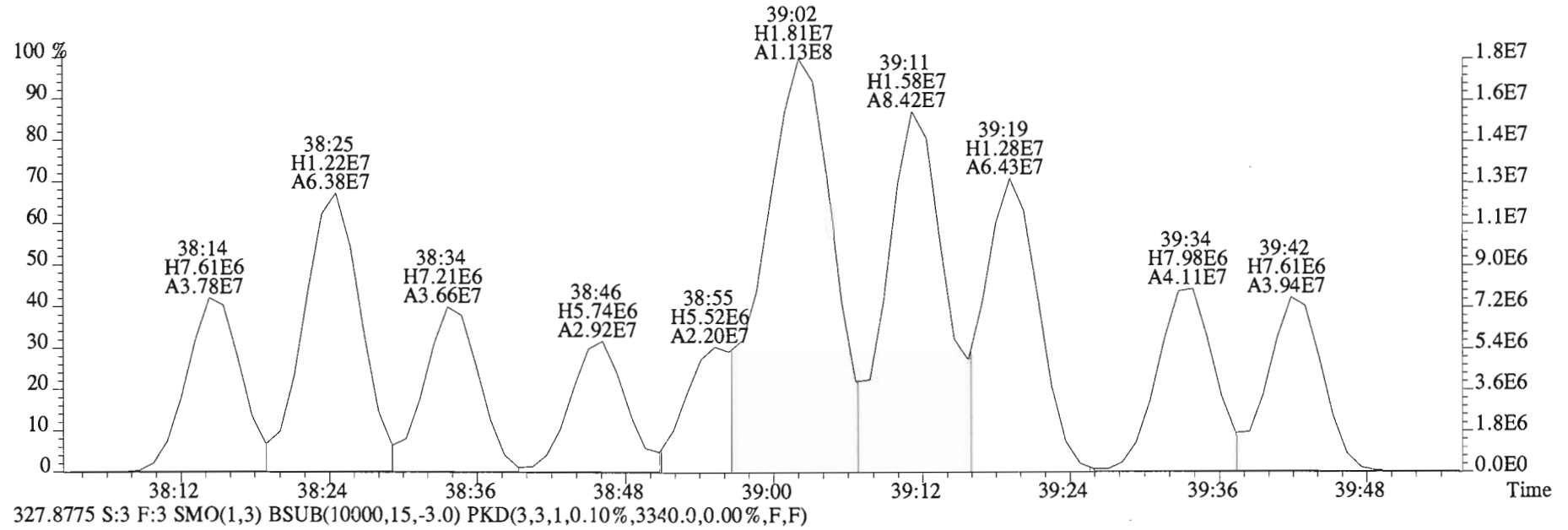
339.9177 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2720.0,0.00%,F,F)



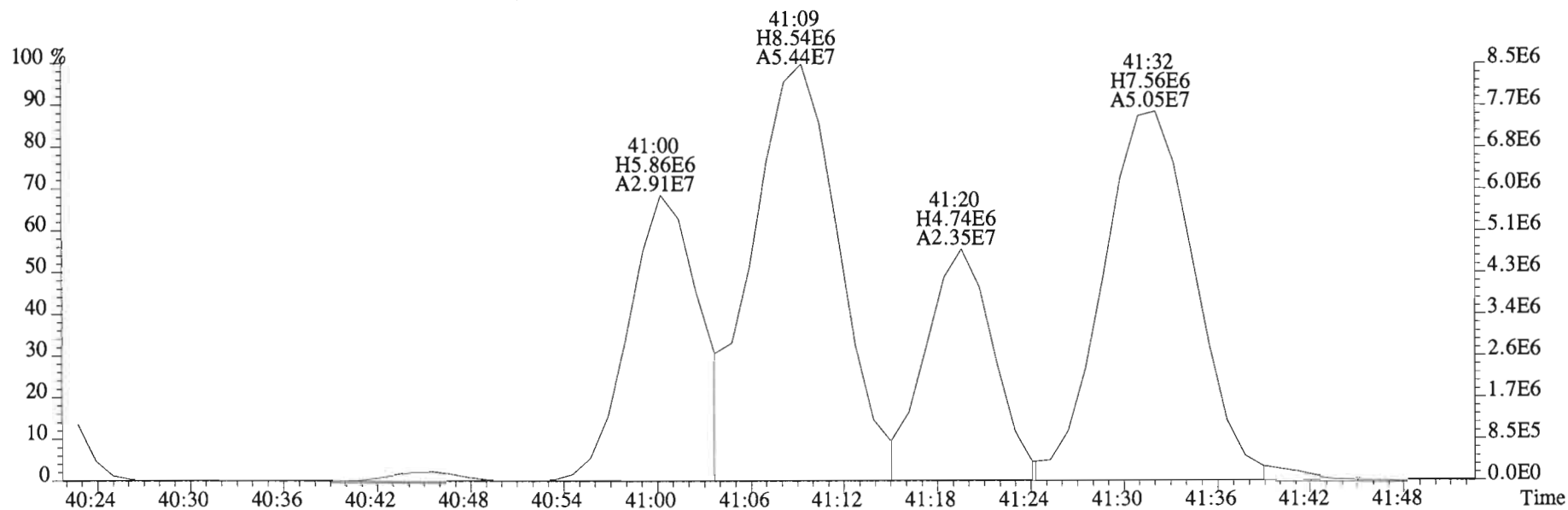
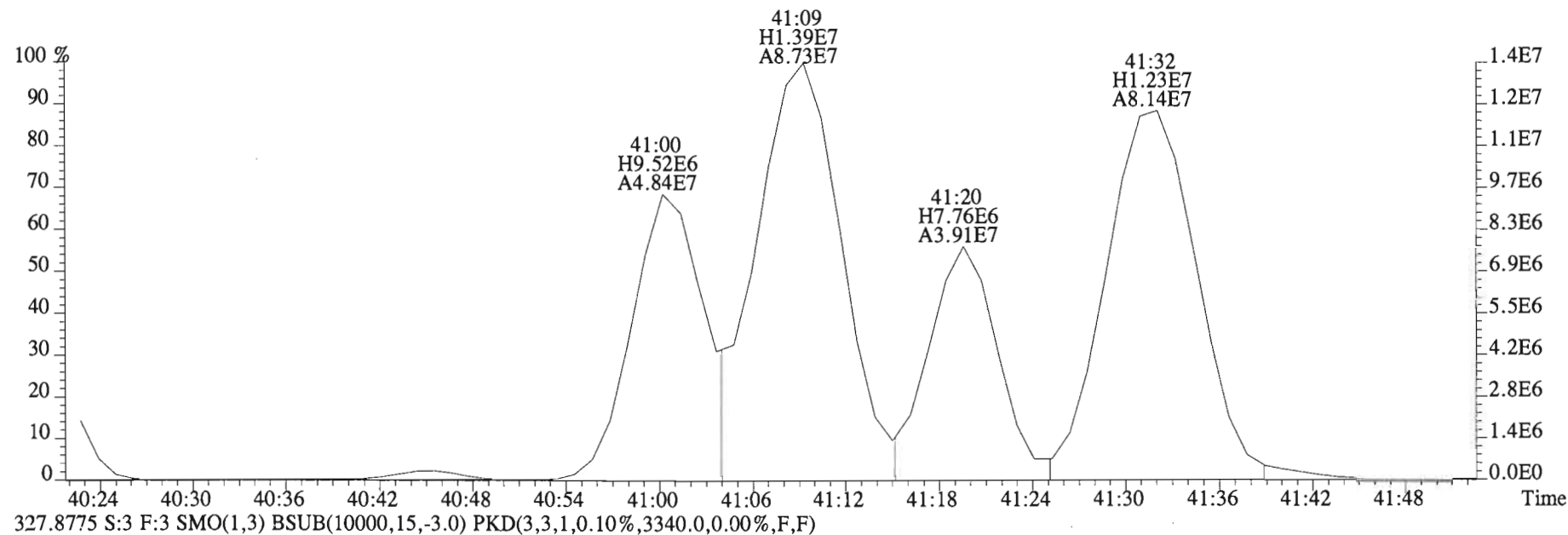
File:150219E2 #1-758 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
 325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1684.0,0.00%,F,F)



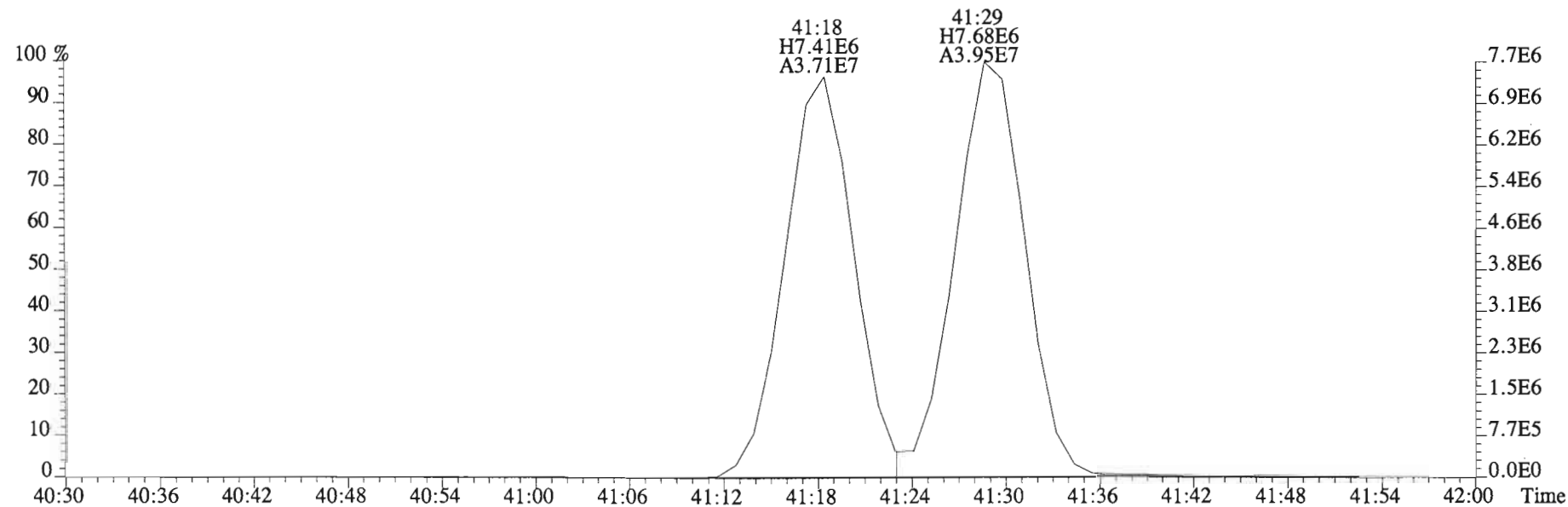
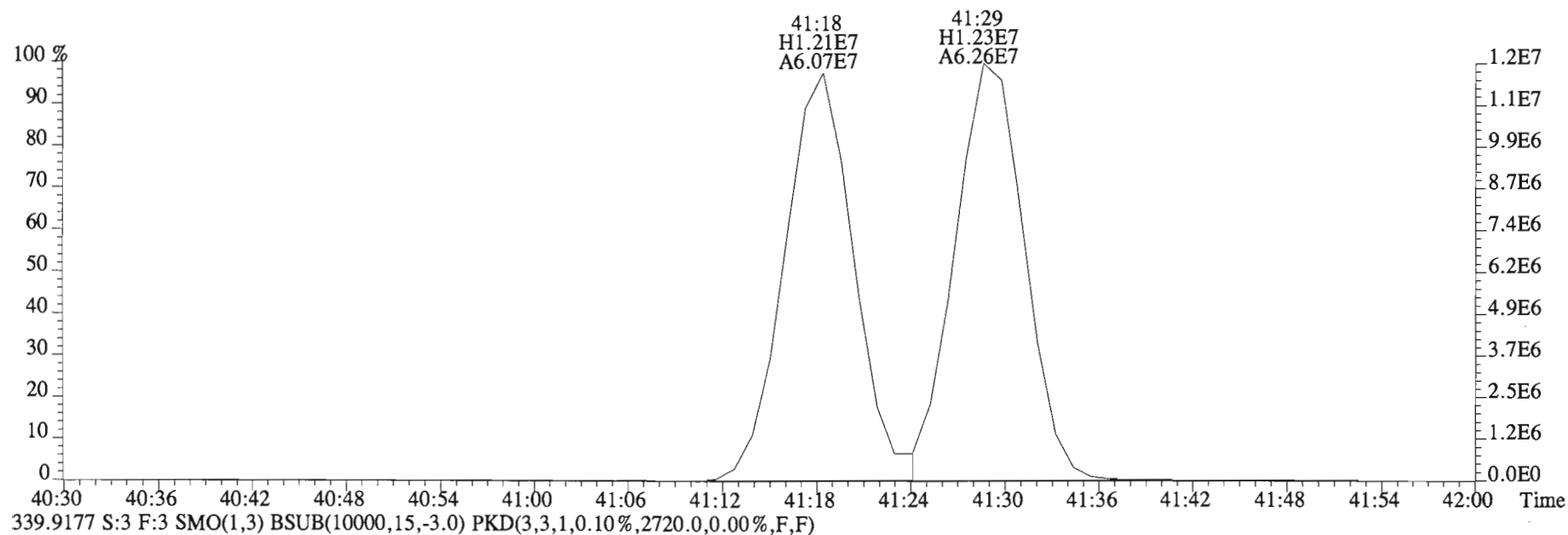
File:150219E2 #1-758 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
 325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1684.0,0.00%,F,F)



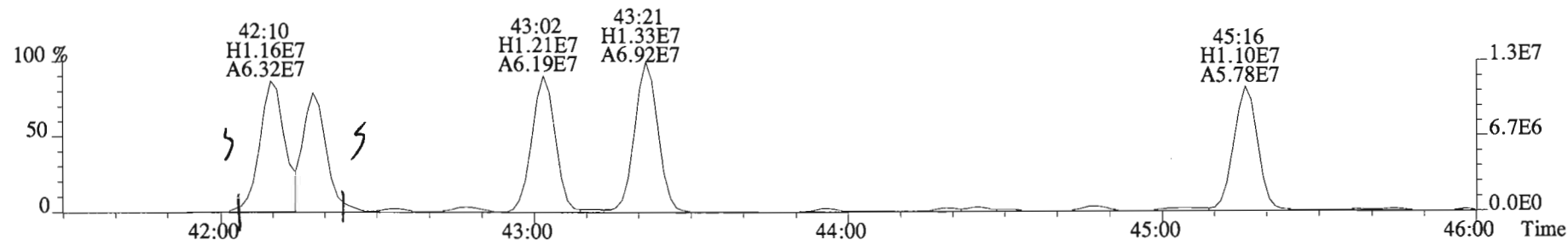
File:150219E2 #1-758 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1684.0,0.00%,F,F)



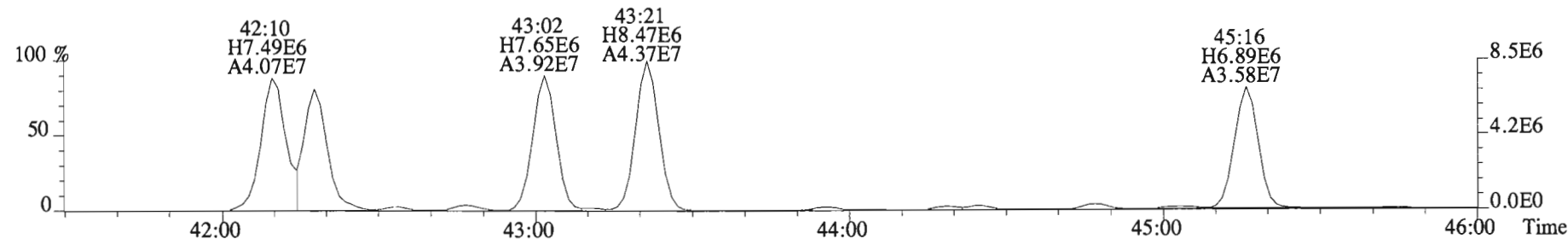
File:150219E2 #1-758 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
337.9207 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2612.0,0.00%,F,F)



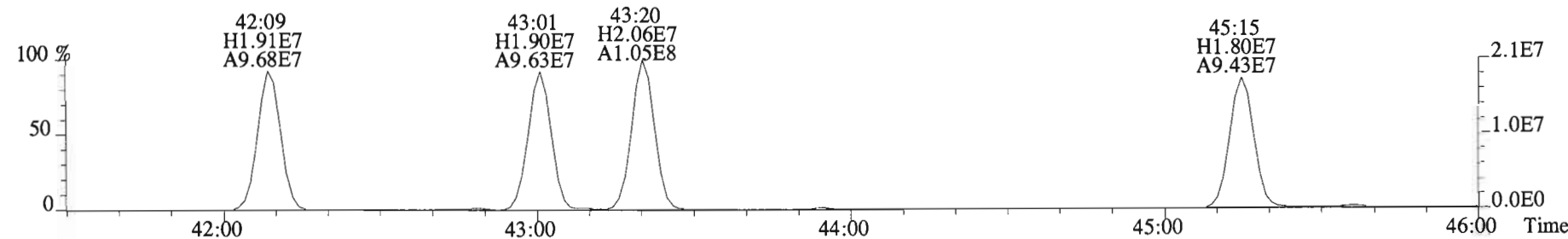
File:150219E2 #1-555 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8988.0,0.00%,F,F)



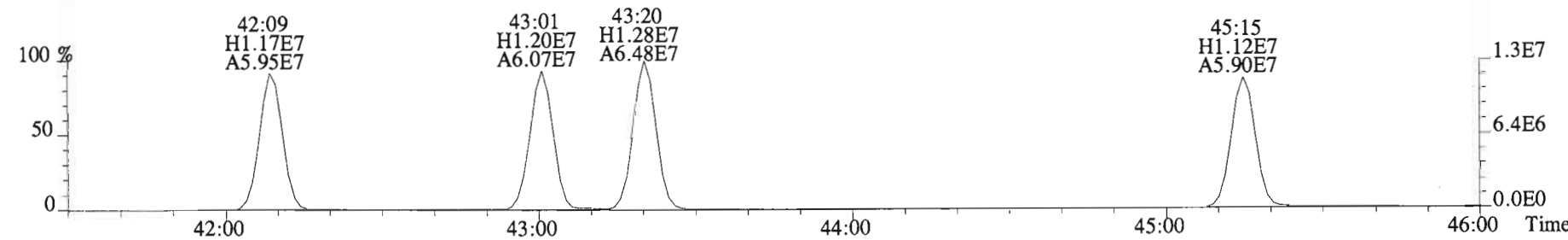
327.8775 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6280.0,0.00%,F,F)



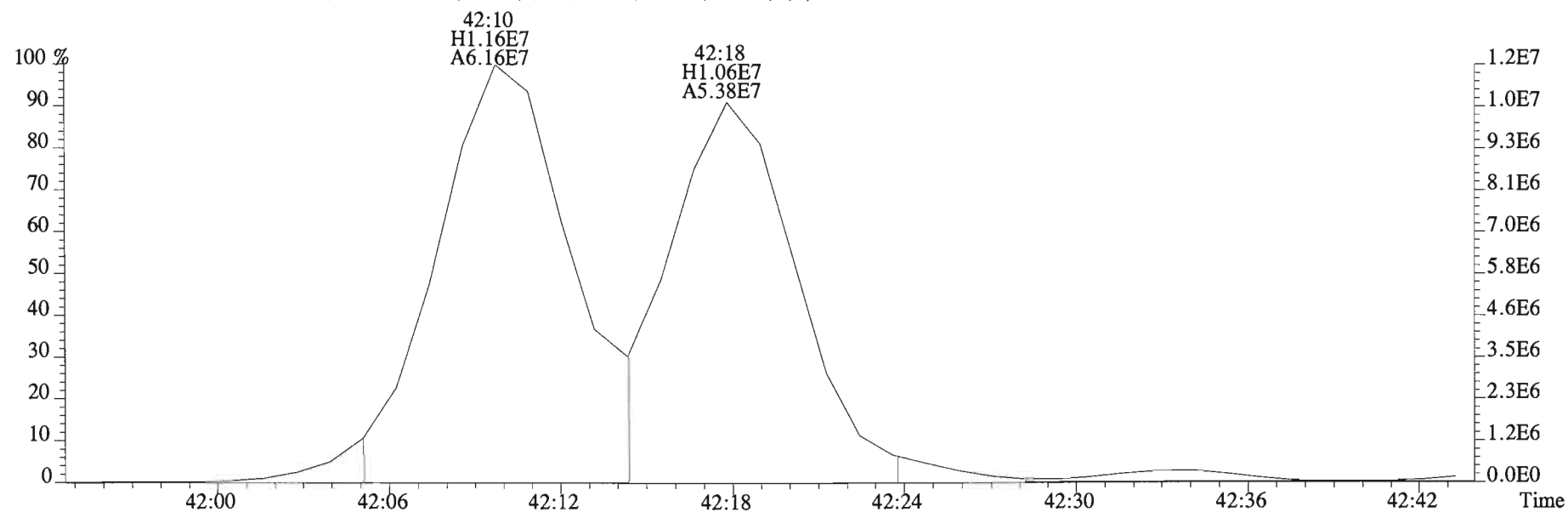
337.9207 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8600.0,0.00%,F,F)



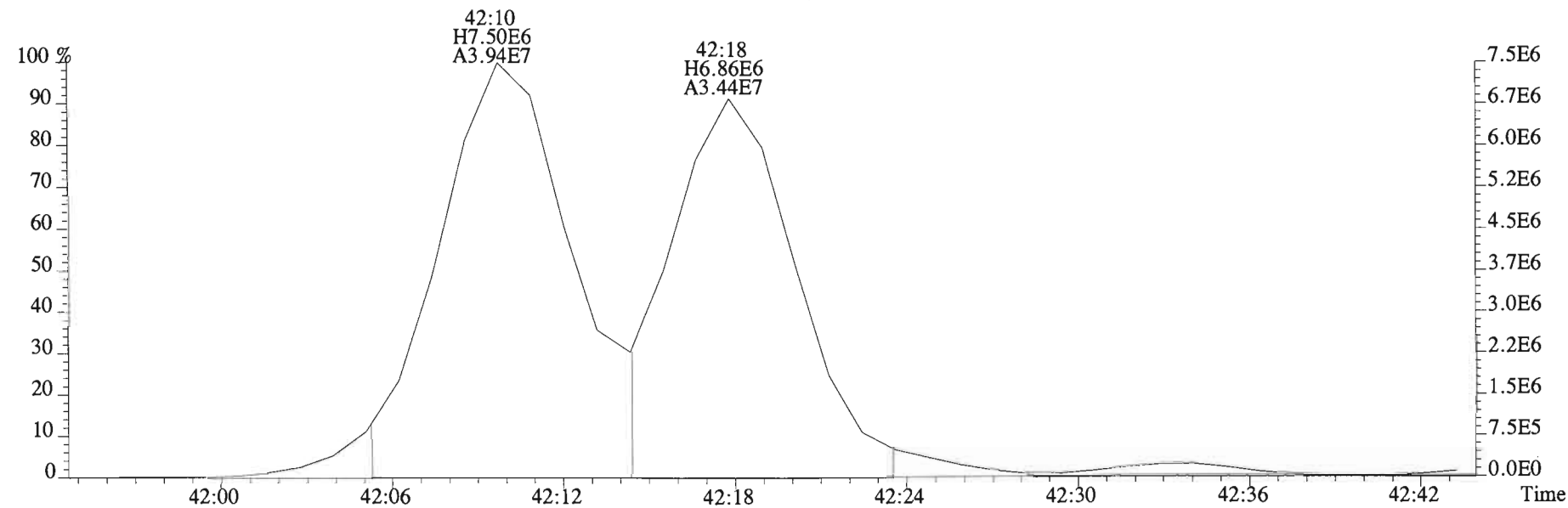
339.9177 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,7108.0,0.00%,F,F)



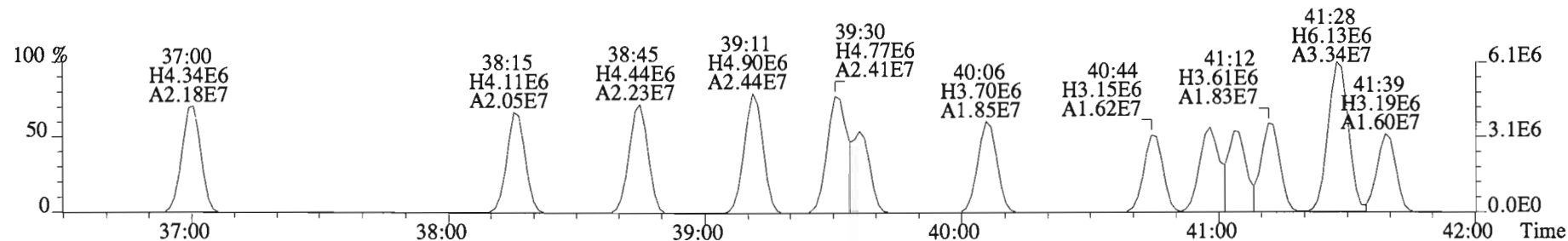
File:150219E2 #1-555 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
325.8804 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,8988.0,0.00%,F,F)



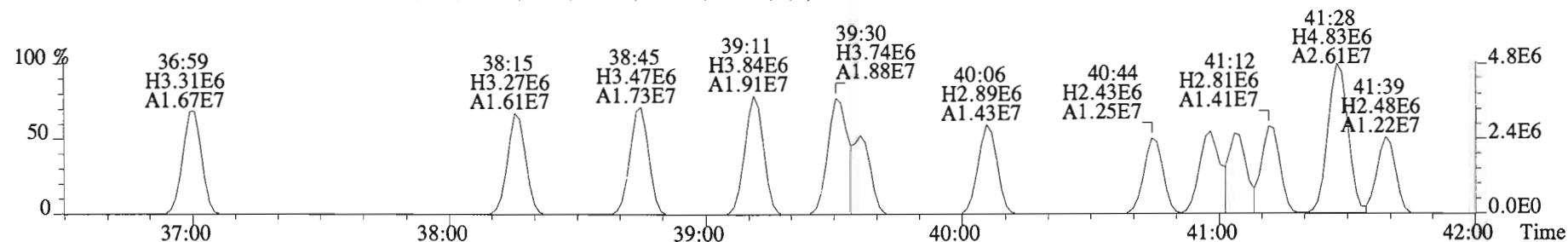
327.8775 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,6280.0,0.00%,F,F)



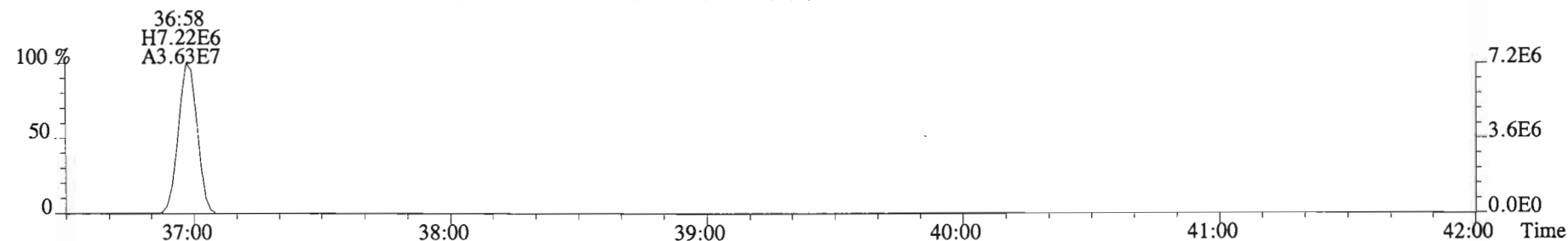
File:150219E2 #1-758 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1572.0,0.00%,F,F)



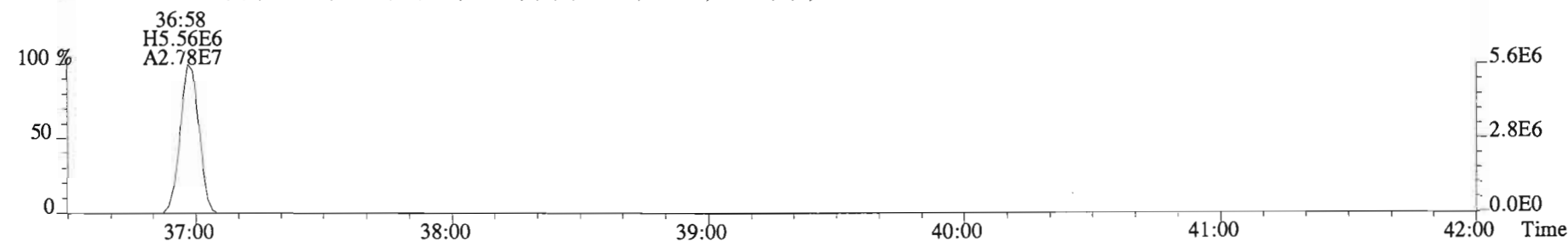
361.8385 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1528.0,0.00%,F,F)



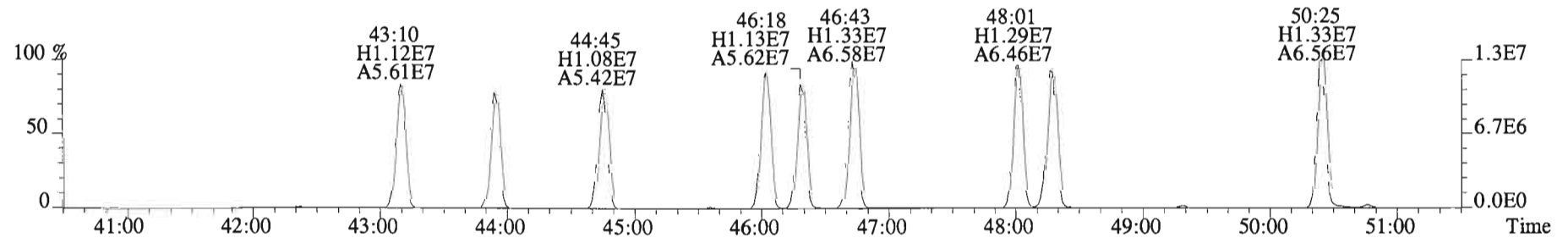
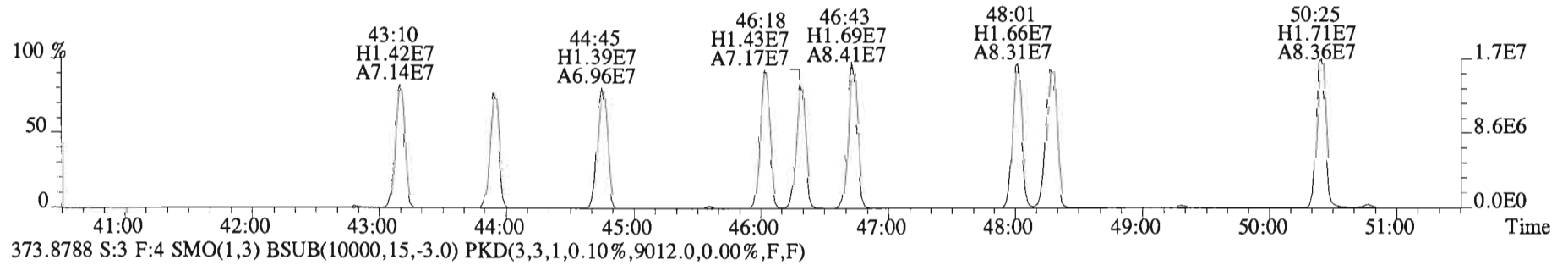
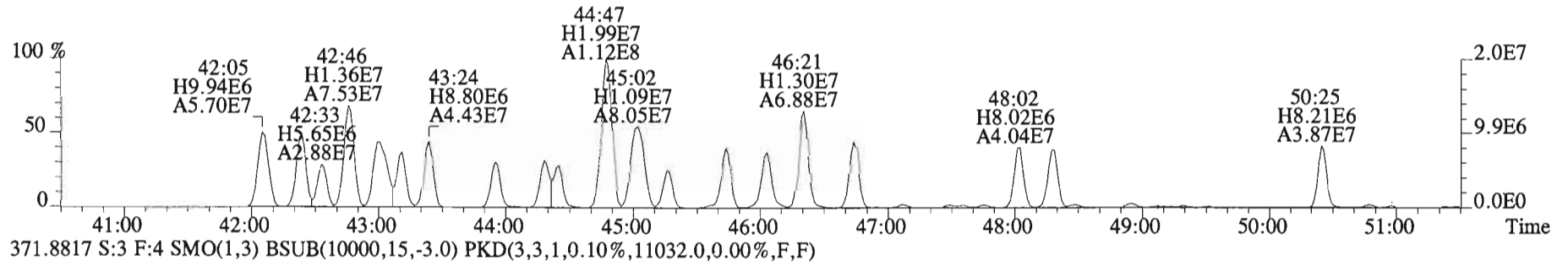
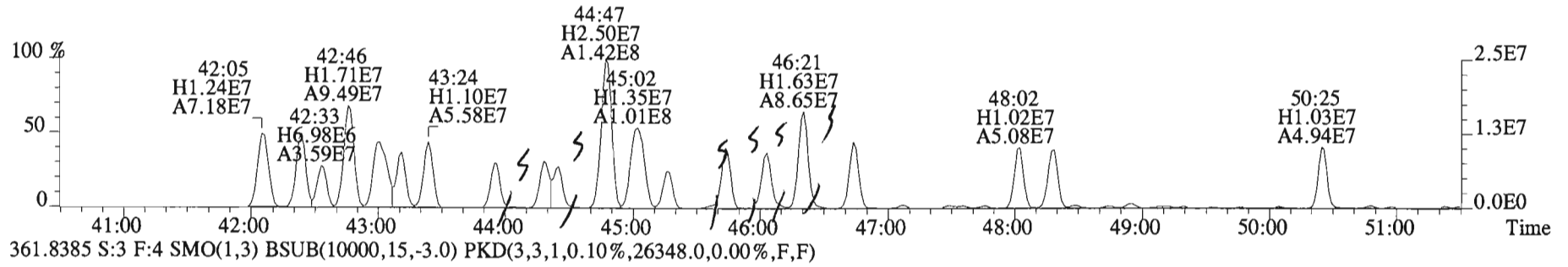
371.8817 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1996.0,0.00%,F,F)



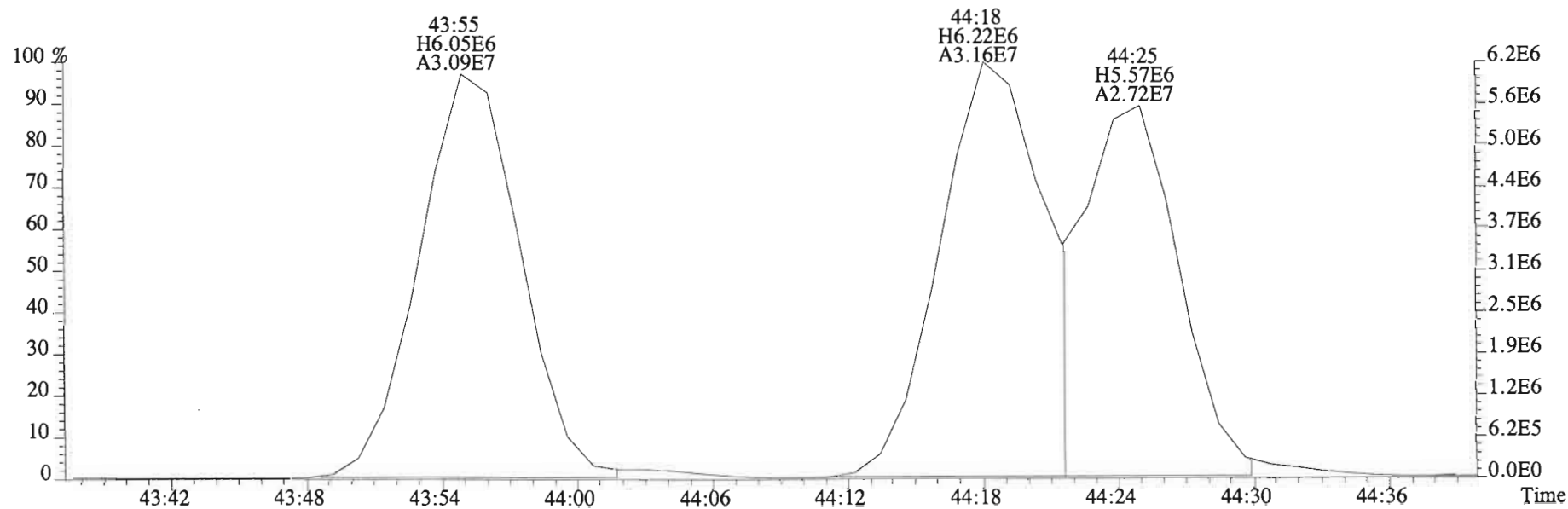
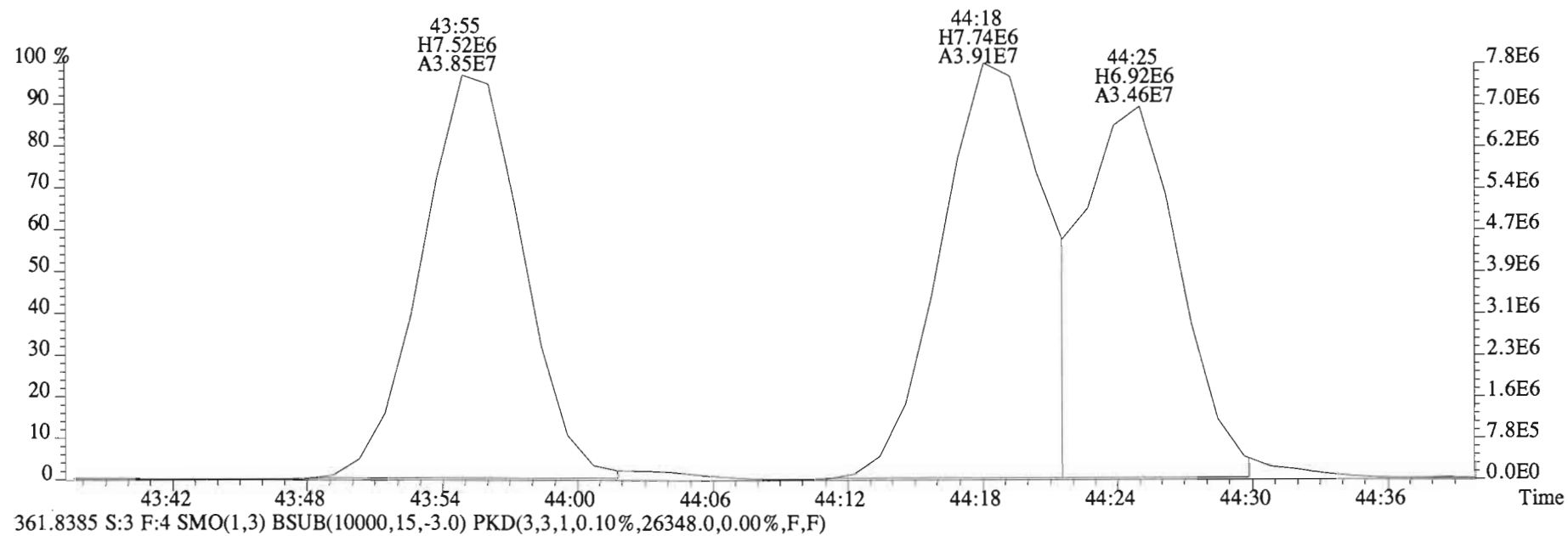
373.8788 S:3 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1912.0,0.00%,F,F)



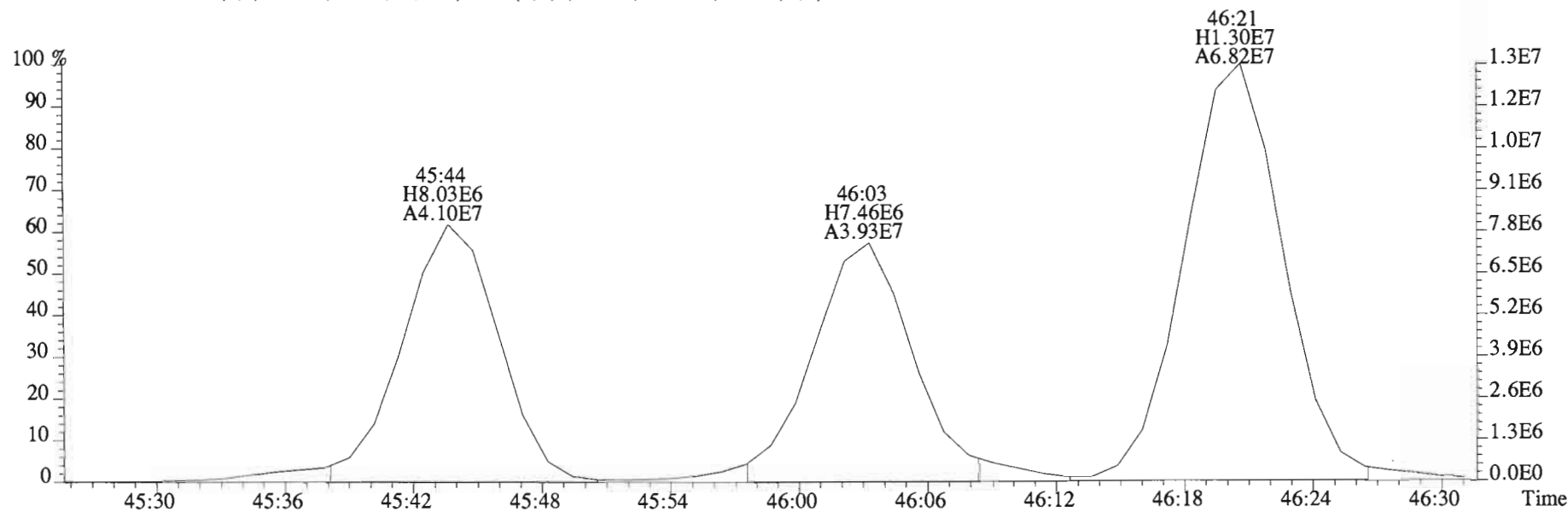
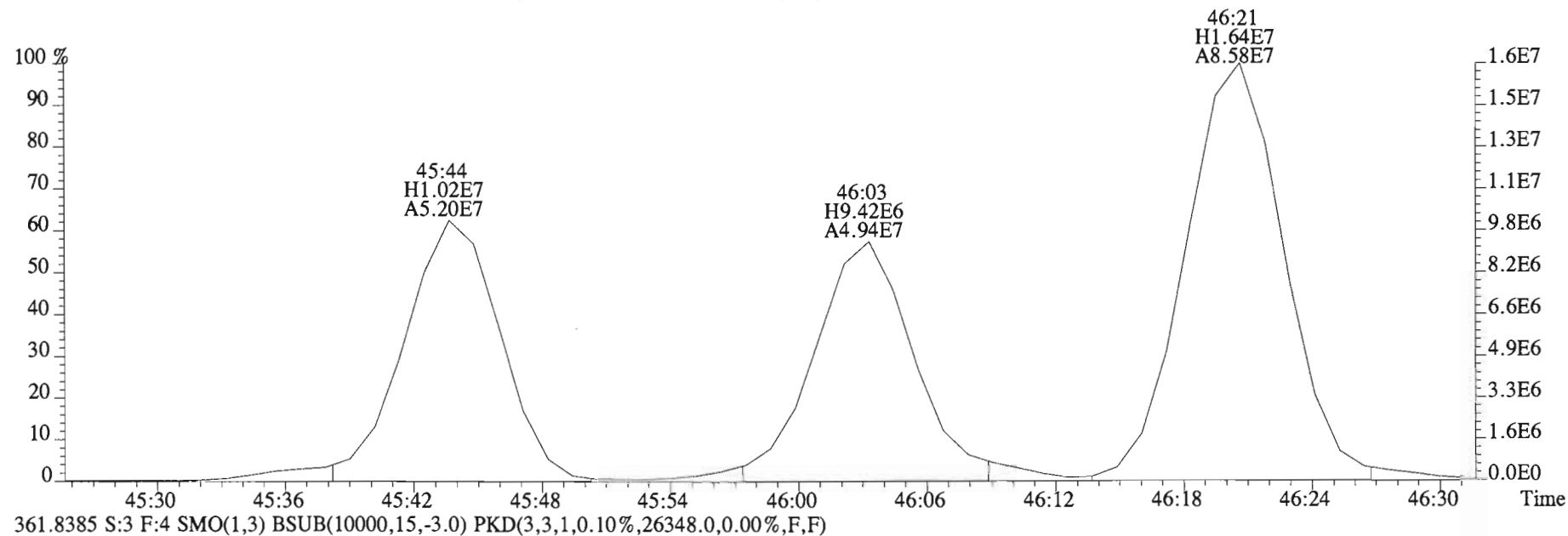
File:150219E2 #1-555 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21892.0,0.00%,F,F)



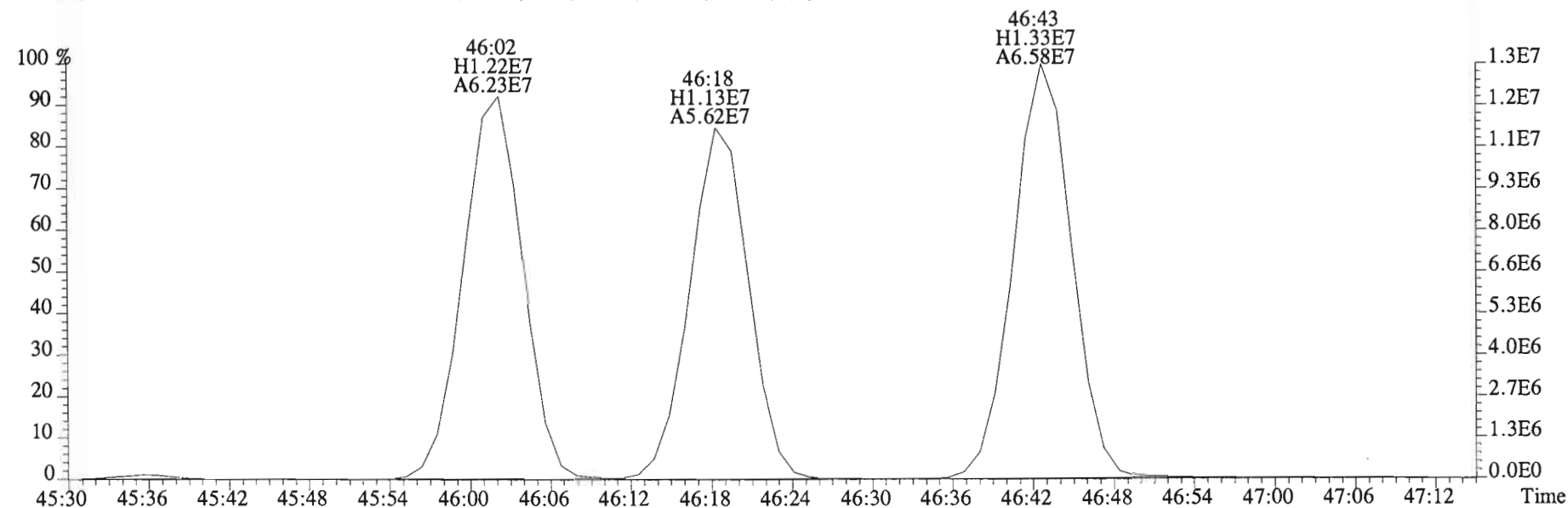
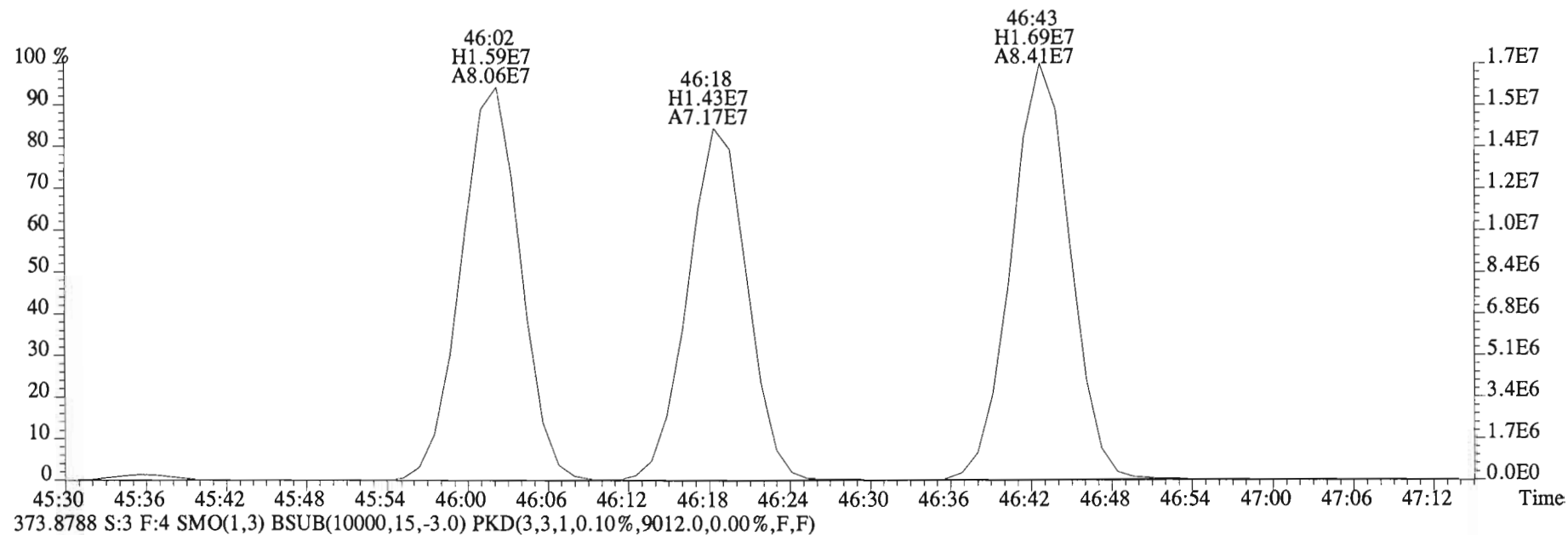
File:150219E2 #1-555 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21892.0,0.00%,F,F)



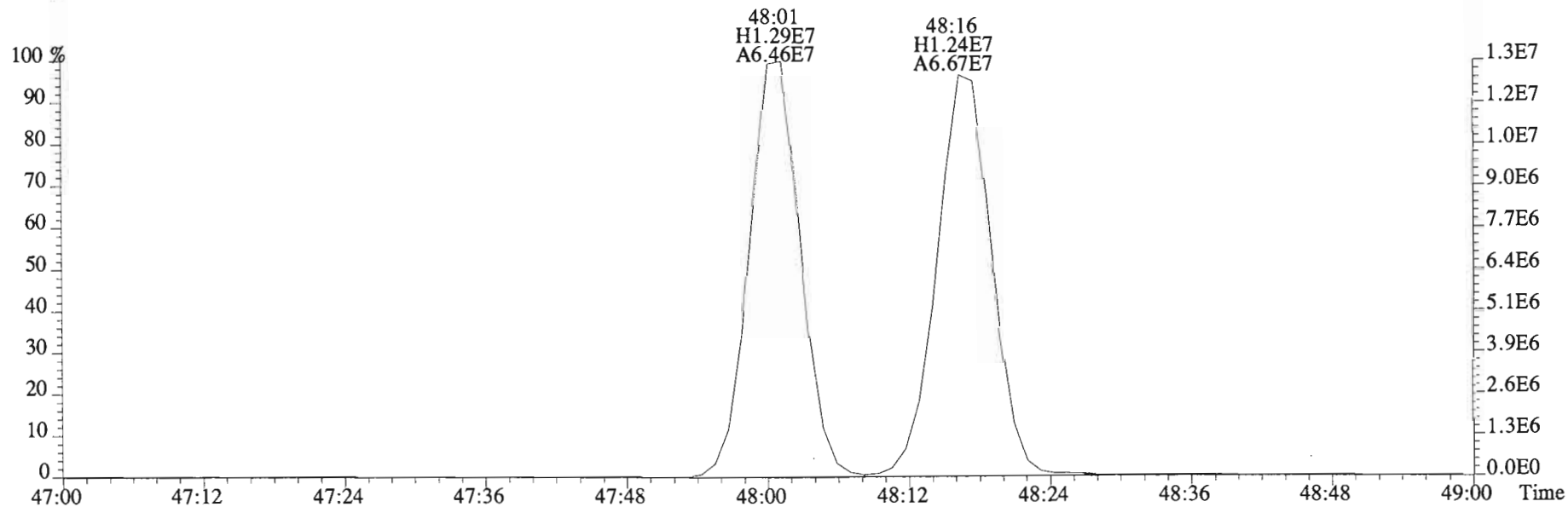
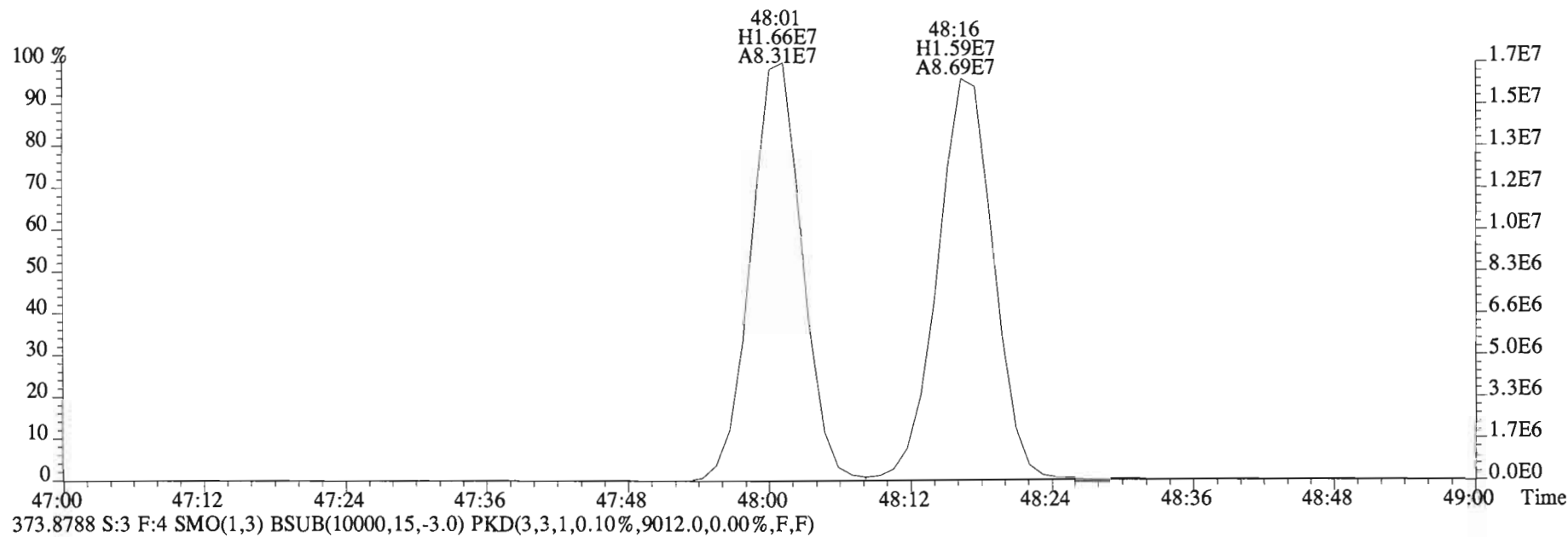
File:150219E2 #1-555 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
359.8415 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,21892.0,0.00%,F,F)



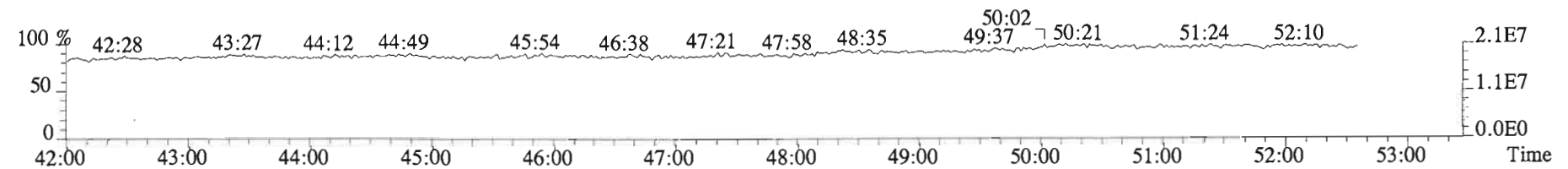
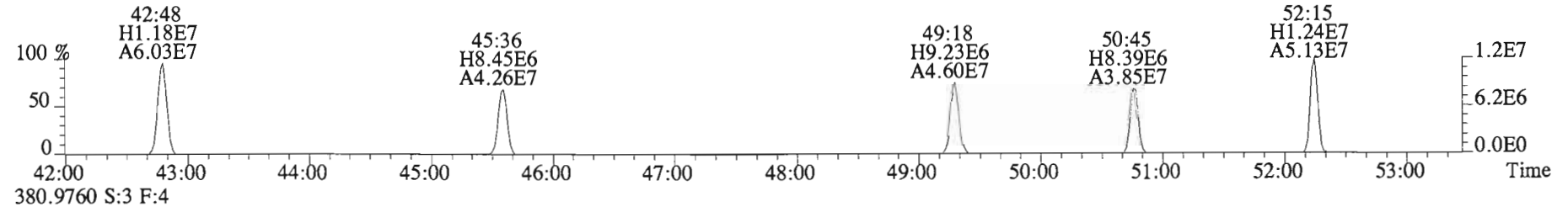
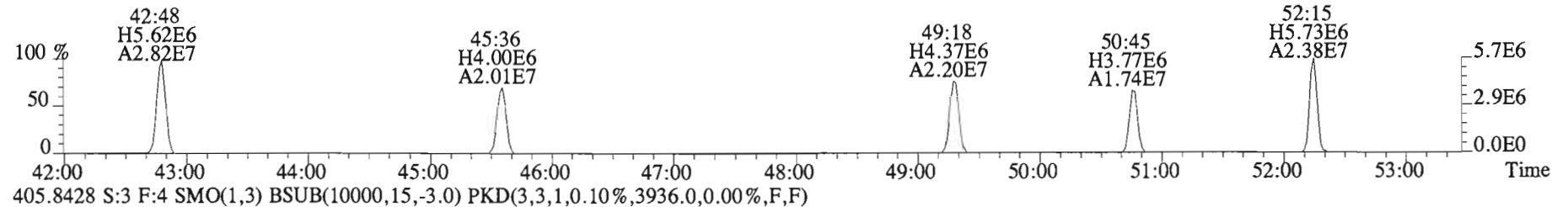
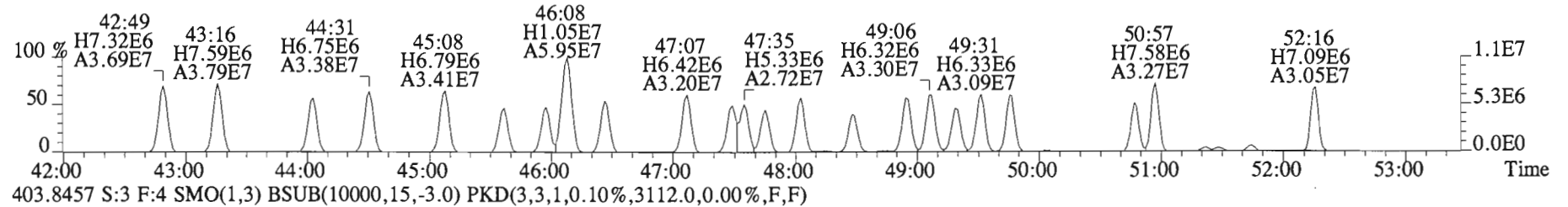
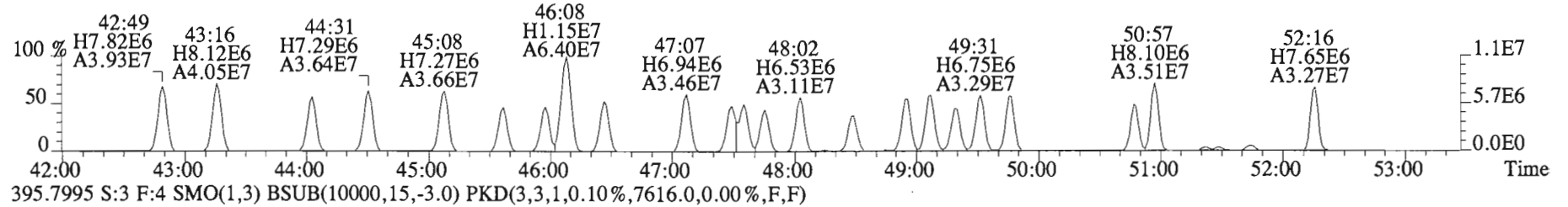
File:150219E2 #1-555 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
371.8817 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11032.0,0.00%,F,F)



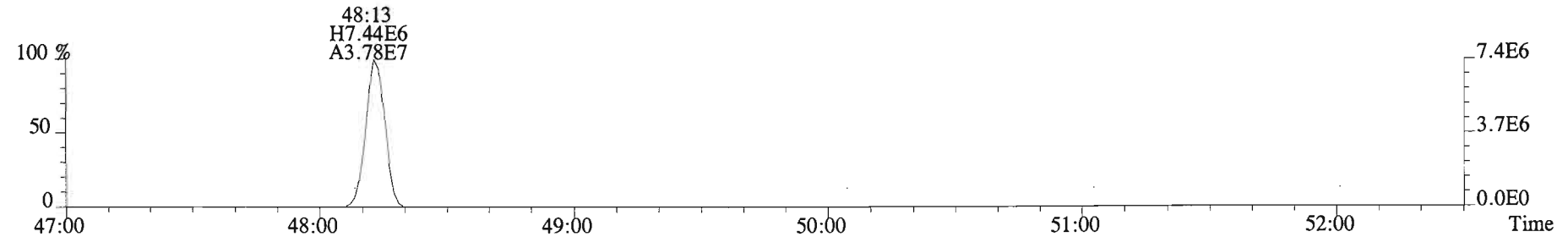
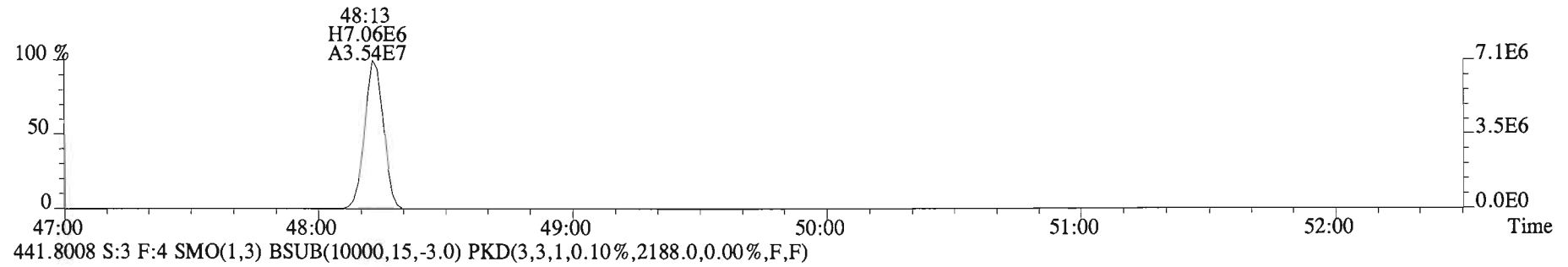
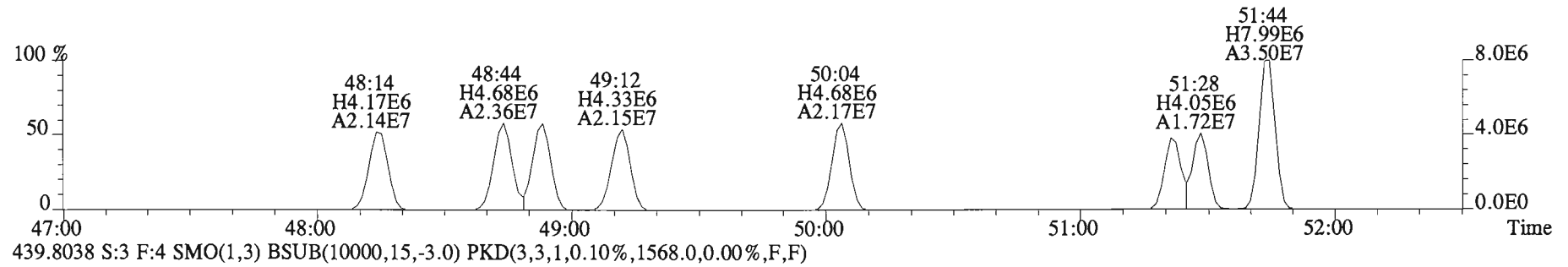
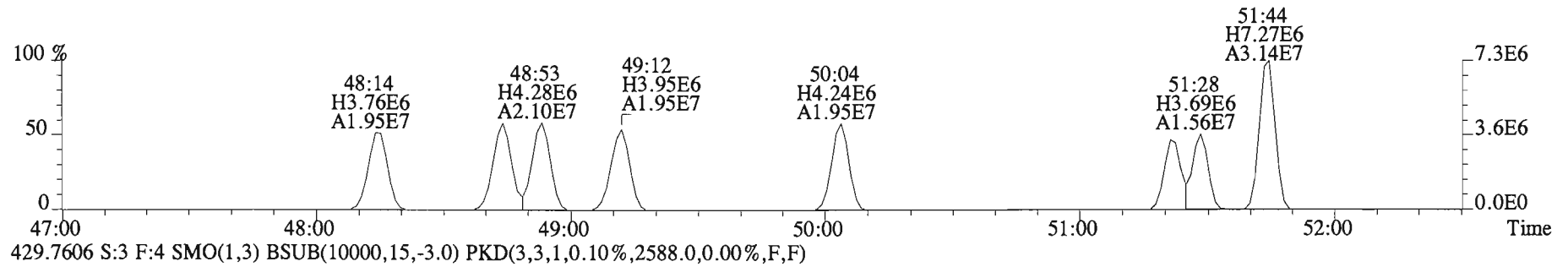
File:150219E2 #1-555 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
371.8817 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,11032.0,0.00%,F,F)



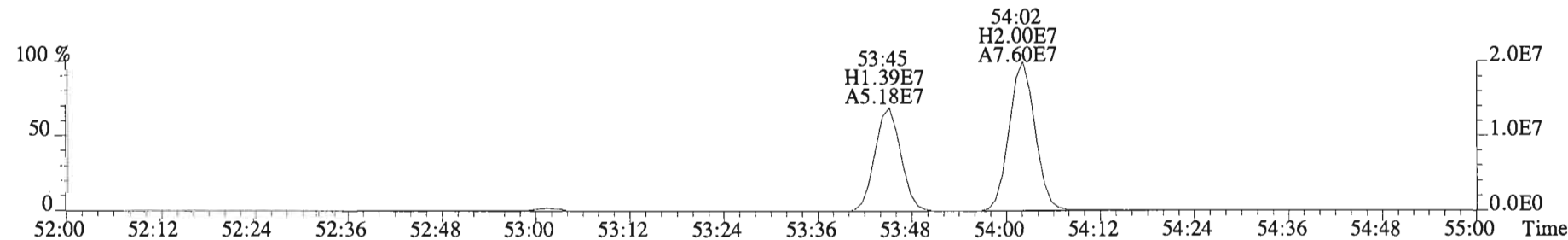
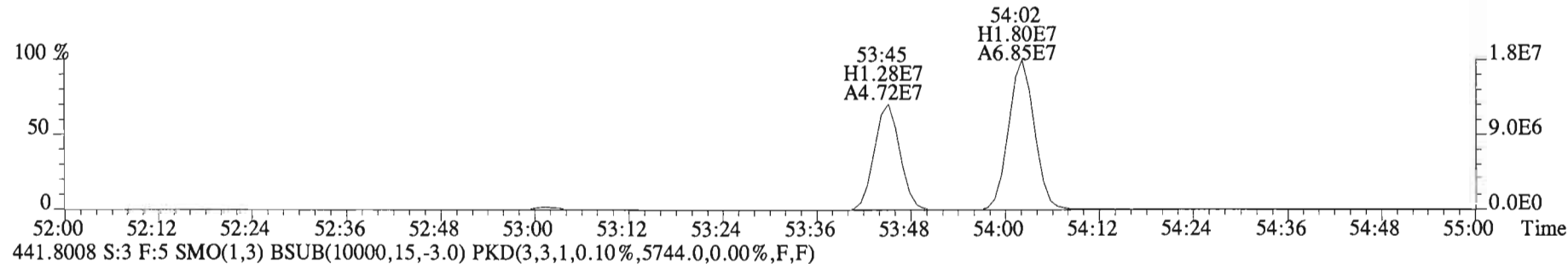
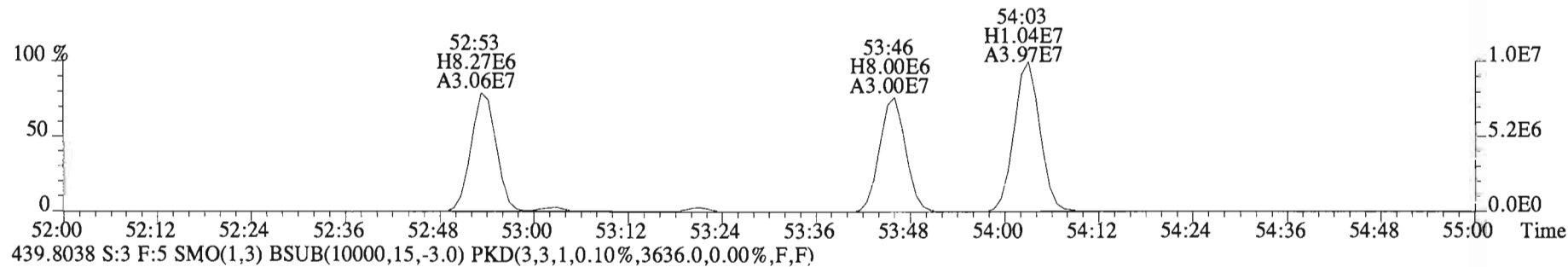
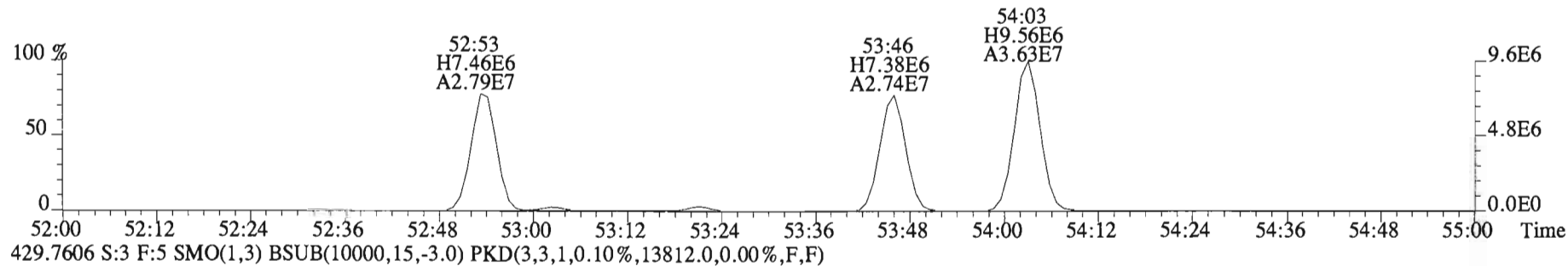
File:150219E2 #1-555 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
393.8025 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,5456.0,0.00%,F,F)



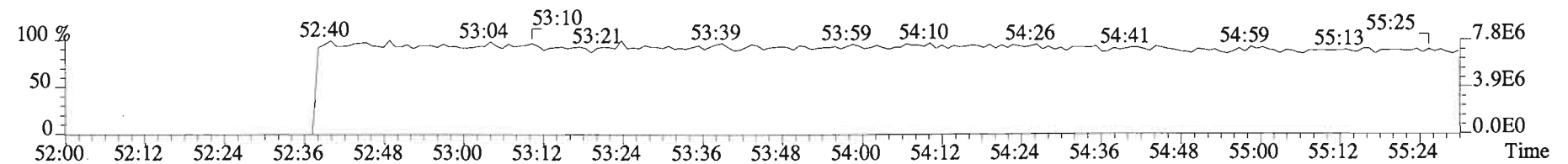
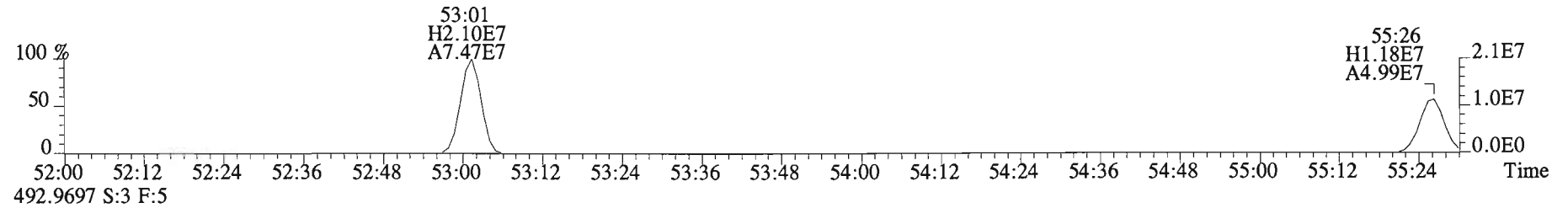
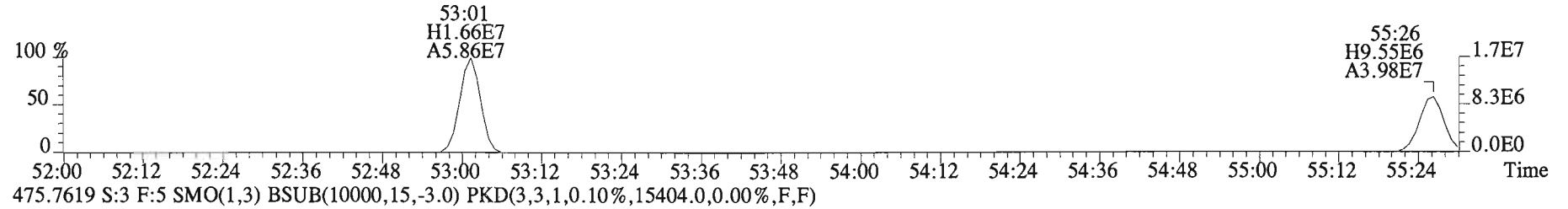
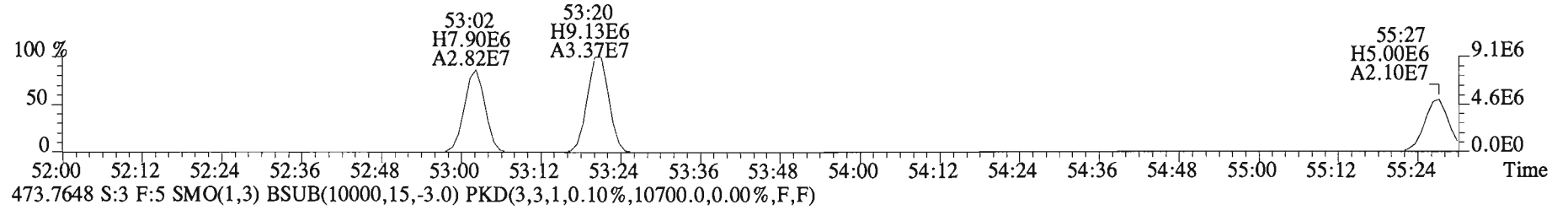
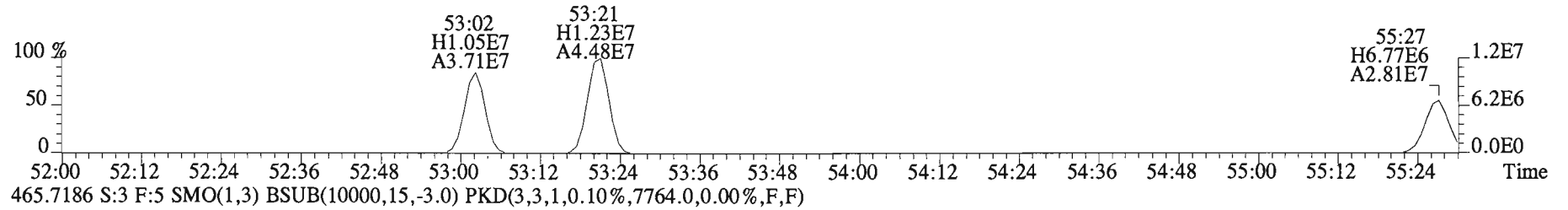
File:150219E2 #1-555 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
427.7635 S:3 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1392.0,0.00%,F,F)



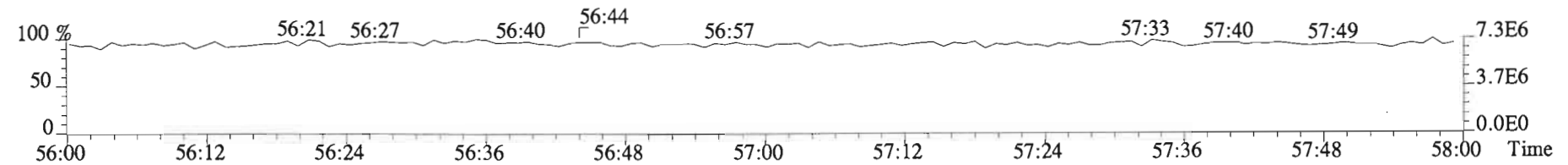
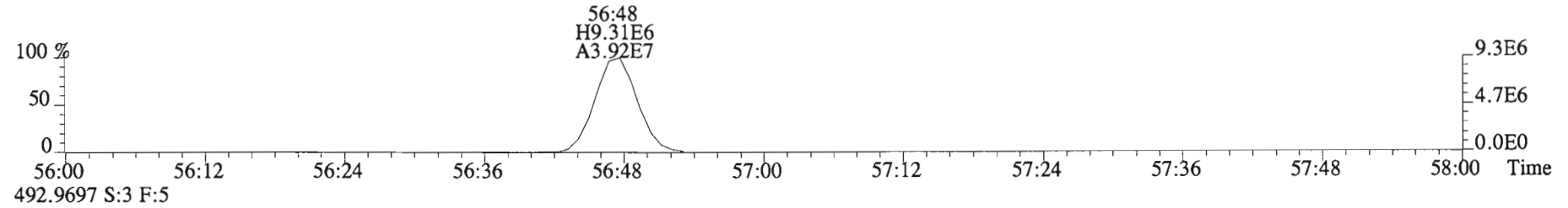
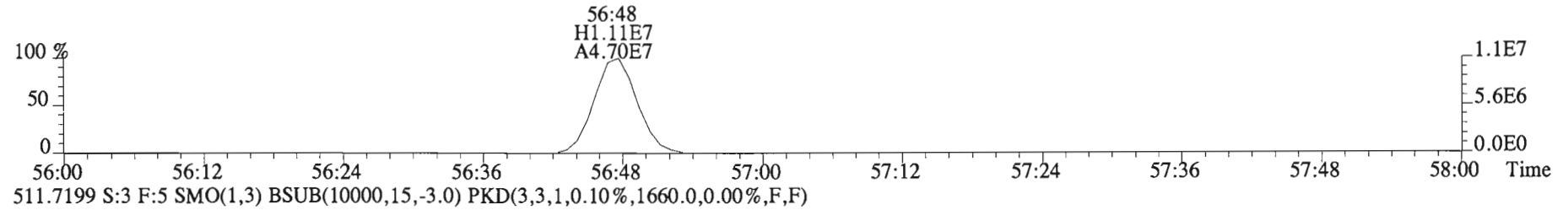
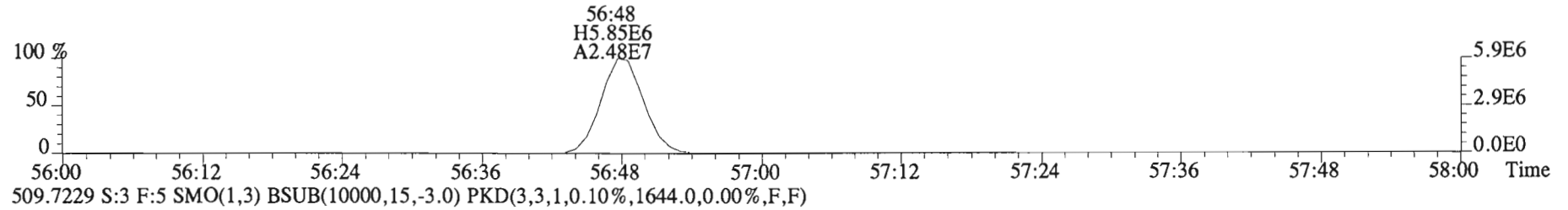
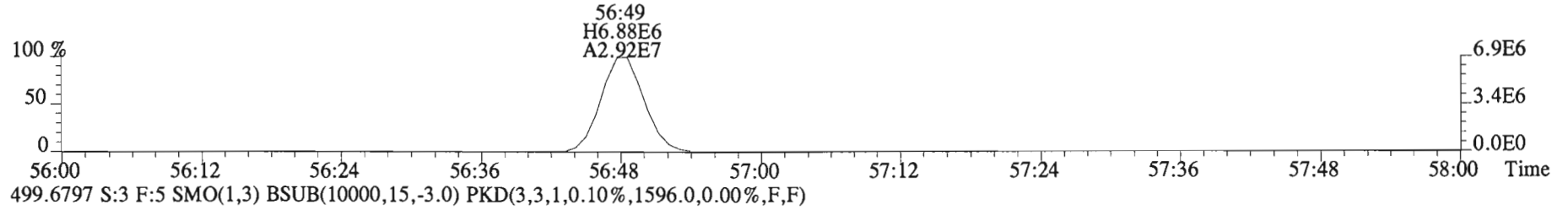
File:150219E2 #1-429 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text: Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
427.7635 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2488.0,0.00%,F,F)



File:150219E2 #1-429 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
463.7216 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,10164.0,0.00%,F,F)



File:150219E2 #1-429 Acq:19-FEB-2015 16:15:42 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG-8 Text:B5B0069-BS1 OPR 10 Exp:PCB_ZB1
497.6826 S:3 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1396.0,0.00%,F,F)



Client ID: ST-CB-08-20150210-S
Lab ID: 1500166-04@10X

Filename: 150219E2 S:10 Acq:19-FEB-15 23:44:30
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.108

ConCal: ST150219E2-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	2.19e+05	2.95	y 16:09	1.19	155		*	2.5	*	1.001	0.996-1.006	
Mono	PCB-2	4.59e+04	2.36	n 18:31	1.18	31.4	R	*	2.5	*	0.988	0.984-0.994	
Mono	PCB-3	1.76e+05	2.80	y 18:45	1.43	100.0		*	2.5	*	1.001	0.996-1.006	
Di	PCB-4/10	3.05e+05	1.58	y 20:05	1.57	152		*	2.5	*	1.001	0.997-1.007	
Di	PCB-7/9	*	*	n NotF η	1.21	*		11200	2.5	109	*	0.866-0.874	
Di	PCB-6	2.87e+05	1.34	y 22:32	1.30	111		*	2.5	*	0.894	0.890-0.899	
Di	PCB-5/8	1.20e+06	1.71	y 22:56	1.15	530		*	2.5	*	0.909	0.907-0.917	
Di	PCB-14	*	*	n NotF η	1.11	*		11200	2.5	123	*	0.949-0.959	
Di	PCB-11	4.66e+05	1.62	y 25:14	1.09	204		*	2.5	*	1.001	0.995-1.005	
Di	PCB-12/13	*	*	n NotF η	1.19	*		11200	2.5	114	*	1.011-1.021	
Di	PCB-15	1.60e+06	1.67	y 25:57	1.28	595		*	2.5	*	1.029	1.023-1.033	
Tri	PCB-19	1.62e+05	1.16	y 24:13	1.04	173		*	2.5	*	1.001	0.996-1.006	
Tri	PCB-30	*	*	n NotF η	1.71	*		2460	2.5	34.3	*	1.032-1.042	
Tri	PCB-18	1.07e+06	1.17	y 25:51	0.78	1090		*	2.5	*	0.954	0.949-0.959	
Tri	PCB-17	4.56e+05	1.08	y 26:02	0.92	395		*	2.5	*	0.961	0.956-0.966	
Tri	PCB-24/27	1.80e+05	1.08	y 26:35	1.19	121		*	2.5	*	0.981	0.977-0.987	
Tri	PCB-16/32	9.13e+05	1.06	y 27:06	0.94	776		*	2.5	*	1.000	0.995-1.005	
Tri	PCB-34	*	*	n NotF η	1.14	*		2020	2.5	44.6	*	0.955-0.965	
Tri	PCB-23	*	*	n NotF η	1.28	*		2020	2.5	39.7	*	0.959-0.969	
Tri	PCB-29	*	*	n NotF η	1.08	*		2020	2.5	47.0	*	0.967-0.977	
Tri	PCB-26	2.37e+05	0.95	y 28:27	1.21	202		*	2.5	*	0.979	0.974-0.984	
Tri	PCB-25	1.03e+05	1.11	y 28:37	1.26	84.0		*	2.5	*	0.985	0.979-0.989	
Tri	PCB-31	1.18e+06	0.92	y 28:59	1.28	940		*	2.5	*	0.998	0.992-1.002	
Tri	PCB-28	1.08e+06	0.96	y 29:04	1.71	649		*	2.5	*	1.001	0.995-1.005	
Tri	PCB-20/21/33	7.13e+05	0.95	y 29:43	1.08	677		*	2.5	*	1.023	1.017-1.027	
Tri	PCB-22	3.93e+05	1.07	y 30:08	1.21	334		*	2.5	*	1.037	1.032-1.042	
Tri	PCB-36	*	*	n NotF η	1.14	*		2020	2.5	47.1	*	0.928-0.938	
Tri	PCB-39	*	*	n NotF η	1.12	*		2020	2.5	48.2	*	0.943-0.953	
Tri	PCB-38	*	*	n NotF η	1.20	*		2020	2.5	44.9	*	0.966-0.976	
Tri	PCB-35	*	*	n NotF η	1.23	*		2020	2.5	43.7	*	0.982-0.992	
Tri	PCB-37	6.23e+05	0.89	y 32:58	1.23	538		*	2.5	*	1.001	0.995-1.005	
Tetra	PCB-54	*	*	n NotF η	1.10	*		2320	2.5	41.2	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotF η	0.88	*		2320	2.5	51.6	*	1.037-1.047	
Tetra	PCB-53	3.84e+05	0.78	y 29:45	1.06	428		*	2.5	*	0.945	0.942-0.952	
Tetra	PCB-51	9.01e+04	0.80	y 30:07	0.99	108		*	2.5	*	0.957	0.952-0.962	
Tetra	PCB-45	2.92e+05	0.67	y 30:33	0.86	401		*	2.5	*	0.970	0.966-0.976	
Tetra	PCB-46	1.29e+05	0.79	y 31:01	0.85	182		*	2.5	*	0.985	0.981-0.991	

Integrations by:

Analyst: DMS

Date: 2/24/15

Reviewed by: [Signature]

Date: 2/25/15

Client ID: ST-CB-08-20150210-S
Lab ID: 1500166-04@10X

Filename: 150219E2 S:10 Acq:19-FEB-15 23:44:30
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.108

ConCal: ST150219E2-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	6.46e+06	0.79	y 31:30	1.28	5990		*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-73	*	*	n NotF η	1.35	*		2320	2.5	43.1	*	1.000-1.010	
Tetra	PCB-43/49	1.74e+06	0.77	y 31:47	0.99	2080		*	2.5	*	1.010	1.005-1.015	
Tetra	PCB-47	4.36e+05	0.77	y 31:59	1.06	462		*	2.5	*	1.000	0.996-1.006	
Tetra	PCB-48/75	3.11e+05	0.77	y 32:06	1.23	284		*	2.5	*	1.004	0.999-1.009	
Tetra	PCB-65	*	*	n NotF η	1.22	*		2320	2.5	47.2	*	1.008-1.018	
Tetra	PCB-62	*	*	n NotF η	1.22	*		2320	2.5	47.3	*	1.011-1.021	
Tetra	PCB-44	2.64e+06	0.77	y 32:47	0.86	3430		*	2.5	*	1.025	1.021-1.031	
Tetra	PCB-42/59	5.89e+05	0.76	y 33:02	1.14	579		*	2.5	*	1.033	1.028-1.038	
Tetra	PCB-41/64/71/72	2.23e+06	0.75	y 33:36	1.21	2070		*	2.5	*	1.051	1.046-1.056	
Tetra	PCB-68	*	*	n NotF η	1.35	*		2320	2.5	42.9	*	1.054-1.064	
Tetra	PCB-40	2.76e+05	0.87	y 34:04	0.70	440		*	2.5	*	1.065	1.061-1.071	
Tetra	PCB-57	*	*	n NotF η	0.98	*		2320	2.5	46.9	*	0.965-0.975	
Tetra	PCB-67	9.29e+04	0.88	y 34:45	1.11	75.7		*	2.5	*	0.979	0.974-0.984	
Tetra	PCB-58	*	*	n NotF η	0.93	*		2320	2.5	49.6	*	0.977-0.987	
Tetra	PCB-63	1.10e+05	0.72	y 35:01	0.95	104		*	2.5	*	0.986	0.982-0.992	
Tetra	PCB-74	1.76e+06	0.78	y 35:18	1.24	1270		*	2.5	*	0.994	0.990-1.000	
Tetra	PCB-61/70	5.97e+06	0.79	y 35:31	0.95	5650		*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-76/66	2.86e+06	0.77	y 35:43	1.04	2470		*	2.5	*	1.006	1.001-1.011	
Tetra	PCB-80	*	*	n NotF η	1.19	*		2320	2.5	41.0	*	0.996-1.006	
Tetra	PCB-55	1.41e+05	0.85	y 36:14	1.04	122		*	2.5	*	1.009	1.005-1.015	
Tetra	PCB-56/60	1.57e+06	0.74	y 36:45	1.01	1400		*	2.5	*	1.023	1.019-1.029	
Tetra	PCB-79	2.47e+05	0.87	y 37:49	1.08	205		*	2.5	*	1.053	1.048-1.058	
Tetra	PCB-78	*	*	n NotF η	1.27	*		2320	2.5	42.4	*	0.982-0.992	
Tetra	PCB-81	5.29e+04	0.64	n 39:02	1.33	39.2	R	*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-77	2.50e+05	0.77	y 39:38	1.10	222		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-104	*	*	n NotF η	1.18	*		1590	2.5	65.3	*	0.996-1.006	
Penta	PCB-96	7.24e+04	1.63	y 33:54	1.14	94.6		*	2.5	*	1.039	1.034-1.044	
Penta	PCB-103	5.22e+04	1.35	y 34:28	0.96	81.1		*	2.5	*	1.056	1.050-1.060	
Penta	PCB-100	*	*	n NotF η	0.94	*		1590	2.5	82.4	*	1.061-1.071	
Penta	PCB-94	*	*	n NotF η	1.06	*		1590	2.5	94.5	*	0.980-0.990	
Penta	PCB-95/98/102	7.60e+06	1.60	y 35:49	1.22	12200		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-93	*	*	n NotF η	0.84	*		1590	2.5	118	*	0.997-1.007	
Penta	PCB-88/91	1.10e+06	1.48	y 36:13	1.12	1940		*	2.5	*	1.012	1.005-1.015	
Penta	PCB-121	*	*	n NotF η	1.62	*		1590	2.5	61.8	*	1.009-1.019	
Penta	PCB-84/92	3.65e+06	1.57	y 37:07	1.05	6510		*	2.5	*	0.990	0.985-0.995	
Penta	PCB-89	5.05e+04	1.87	n 37:19	1.13	83.5	R	*	2.5	*	0.996	0.991-1.001	

Analyst: DMS

Date: 2/24/15

Client ID: ST-CB-08-20150210-S
Lab ID: 1500166-04@10X

Filename: 150219E2 S:10 Acq:19-FEB-15 23:44:30
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.108

ConCal: ST150219E2-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	9.61e+06	1.59	y 37:30	1.10	16300	*	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-113	*	*	n NotF η	1.41	*		1590	2.5	67.6	*	1.002-1.012	
Penta	PCB-99	3.75e+06	1.68	y 37:49	1.34	5240	*	*	2.5	*	1.009	1.004-1.014	
Penta	PCB-119	1.84e+05	1.75	y 38:18	1.53	243	*	*	2.5	*	0.988	0.982-0.992	
Penta	PCB-108/112	4.08e+05	1.44	y 38:27	1.28	645	*	*	2.5	*	0.991	0.986-0.996	
Penta	PCB-83	*	*	n NotF η	1.52	*		1590	2.5	72.2	*	0.990-1.000	
Penta	PCB-97	2.57e+06	1.53	y 38:48	1.18	4400	*	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-86	*	*	n NotF η	0.84	*		1590	2.5	130	*	0.999-1.009	
Penta	PCB-87/117/125	4.16e+06	1.62	y 39:06	1.55	5440	*	*	2.5	*	1.008	1.002-1.012	
Penta	PCB-111/115	1.89e+05	1.66	y 39:15	1.63	235	*	*	2.5	*	1.012	1.006-1.016	
Penta	PCB-85/116	1.47e+06	1.57	y 39:21	1.30	2290	*	*	2.5	*	1.015	1.010-1.020	
Penta	PCB-120	4.24e+04	1.38	y 39:33	1.68	51.2	*	*	2.5	*	1.020	1.016-1.026	
Penta	PCB-110	1.35e+07	1.63	y 39:45	1.56	17600	*	*	2.5	*	1.025	1.020-1.030	
Penta	PCB-82	8.48e+05	1.72	y 40:23	0.76	1820	*	*	2.5	*	0.976	0.971-0.981	
Penta	PCB-124	5.24e+05	1.48	y 41:04	1.47	579	*	*	2.5	*	0.993	0.988-0.998	
Penta	PCB-107/109	6.23e+05	1.62	y 41:14	1.32	766	*	*	2.5	*	0.997	0.991-1.001	
Penta	PCB-123	1.43e+05	1.48	y 41:23	1.17	199	*	*	2.5	*	1.000	0.996-1.006	
Penta	PCB-106/118	9.29e+06	1.61	y 41:33	1.17	12600	*	*	2.5	*	1.000	0.996-1.006	
Penta	PCB-114	3.44e+05	1.50	y 42:12	1.30	268	*	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-122	1.42e+05	1.61	y 42:21	1.12	127	*	*	2.5	*	1.004	0.999-1.009	
Penta	PCB-105	5.61e+06	1.63	y 43:05	1.30	4430	*	*	2.5	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n NotF η	1.33	*		2130	2.5	55.5	*	0.996-1.006	
Penta	PCB-126	1.21e+05	1.67	y 45:21	1.18	126	*	*	2.5	*	1.001	0.995-1.005	
Hexa	PCB-155	*	*	n NotF η	1.11	*		1490	2.5	90.1	*	0.966-1.006	
Hexa	PCB-150	*	*	n NotF η	1.00	*		1490	2.5	100	*	1.030-1.040	
Hexa	PCB-152	*	*	n NotF η	1.12	*		1490	2.5	89.9	*	1.043-1.053	
Hexa	PCB-145	*	*	n NotF η	1.20	*		1490	2.5	83.5	*	1.055-1.065	
Hexa	PCB-136	1.05e+06	1.34	y 39:33	1.18	2050	*	*	2.5	*	1.068	1.064-1.074	
Hexa	PCB-148	*	*	n NotF η	0.74	*		1490	2.5	135	*	1.066-1.076	
Hexa	PCB-154	5.92e+04	1.22	y 40:08	0.86	158	*	*	2.5	*	1.084	1.080-1.090	
Hexa	PCB-151	1.35e+06	1.24	y 40:48	0.75	4140	*	*	2.5	*	1.102	1.097-1.107	
Hexa	PCB-135	6.85e+05	1.25	y 41:00	0.79	1980	*	*	2.5	*	1.107	1.103-1.113	
Hexa	PCB-144	3.25e+05	1.31	y 41:07	0.76	976	*	*	2.5	*	1.110	1.105-1.117	
Hexa	PCB-147	9.24e+04	1.23	y 41:15	0.82	258	*	*	2.5	*	1.114	1.109-1.121	
Hexa	PCB-139/149	5.15e+06	1.35	y 41:30	0.76	15500	*	*	2.5	*	1.121	1.116-1.128	
Hexa	PCB-140	*	*	n NotF η	0.72	*		1490	2.5	139	*	1.121-1.133	
Hexa	PCB-134/143	8.46e+05	1.12	y 42:10	0.92	1100	*	*	2.5	*	0.976	0.970-0.980	

Analyst: Dms

Date: 2/24/15

Client ID: ST-CB-08-20150210-S
Lab ID: 1500166-04@10X

Filename: 150219E2 S:10 Acq:19-FEB-15 23:44:30
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.108

ConCal: ST150219E2-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	4.24e+05	1.08	y 42:26	0.82	617	*	2.5	*	*	0.982	0.977-0.987	
Hexa	PCB-131	*	*	n NotF η	0.91	*	*	2690	2.5	102	*	0.981-0.991	
Hexa	PCB-146/165	2.28e+06	1.32	y 42:50	1.25	2180	*	2.5	*	*	0.991	0.986-0.996	
Hexa	PCB-132/161	5.39e+06	1.19	y 43:06	1.10	5810	*	2.5	*	*	0.997	0.992-1.002	
Hexa	PCB-153	1.51e+07	1.26	y 43:15	1.25	14400	*	2.5	*	*	1.001	0.995-1.005	
Hexa	PCB-168	*	*	n NotF η	1.45	*	*	2690	2.5	64.0	*	1.001-1.011	
Hexa	PCB-141	3.11e+06	1.19	y 43:58	1.09	3710	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-137	8.18e+05	1.40	y 44:22	1.06	997	*	2.5	*	*	1.009	1.004-1.014	
Hexa	PCB-130	8.71e+05	1.37	y 44:29	0.96	1170	*	2.5	*	*	1.012	1.006-1.016	
Hexa	PCB-138/163/164	1.82e+07	1.25	y 44:49	1.29	17900	*	2.5	*	*	1.000	0.996-1.006	
Hexa	PCB-158/160	2.17e+06	1.20	y 45:03	1.34	2050	*	2.5	*	*	1.006	1.001-1.011	
Hexa	PCB-129	6.71e+05	1.19	y 45:19	0.85	999	*	2.5	*	*	1.012	1.007-1.017	
Hexa	PCB-166	8.25e+04	1.14	y 45:48	1.19	78.1	*	2.5	*	*	0.993	0.988-0.998	
Hexa	PCB-159	*	*	n NotF η	1.11	*	*	2690	2.5	80.5	*	0.996-1.006	
Hexa	PCB-128/162	2.69e+06	1.20	y 46:23	1.05	2880	*	2.5	*	*	1.006	1.002-1.012	
Hexa	PCB-167	8.20e+05	1.38	y 46:48	1.20	696	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-156	1.81e+06	1.26	y 48:06	1.14	1710	*	2.5	*	*	1.000	0.996-1.006	
Hexa	PCB-157	4.08e+05	1.37	y 48:22	1.16	362	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-169	*	*	n NotF η	1.12	*	*	2690	2.5	77.1	*	0.995-1.005	
Hepta	PCB-188	*	*	n NotF η	1.58	*	*	1750	2.5	34.9	*	0.996-1.006	
Hepta	PCB-184	*	*	n NotF η	1.63	*	*	1750	2.5	33.8	*	1.006-1.016	
Hepta	PCB-179	1.64e+06	1.03	y 44:05	1.30	2140	*	2.5	*	*	1.029	1.024-1.034	
Hepta	PCB-176	5.20e+05	1.07	y 44:33	1.48	599	*	2.5	*	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotF η	1.45	*	*	1750	2.5	37.9	*	1.050-1.060	
Hepta	PCB-178	5.75e+05	1.10	y 45:40	1.03	946	*	2.5	*	*	1.066	1.061-1.071	
Hepta	PCB-175	1.38e+05	1.15	y 46:00	1.01	232	*	2.5	*	*	1.074	1.069-1.079	
Hepta	PCB-182/187	3.83e+06	1.08	y 46:10	1.25	5200	*	2.5	*	*	1.078	1.073-1.083	
Hepta	PCB-183	1.82e+06	1.07	y 46:30	1.21	2560	*	2.5	*	*	1.086	1.081-1.091	
Hepta	PCB-185	3.81e+05	1.08	y 47:10	1.80	497	*	2.5	*	*	0.955	0.951-0.961	
Hepta	PCB-174	2.94e+06	1.00	y 47:32	1.38	5010	*	2.5	*	*	0.963	0.958-0.968	
Hepta	PCB-181	*	*	n NotF η	1.38	*	*	1750	2.5	55.7	*	0.960-0.970	
Hepta	PCB-177	1.56e+06	0.95	y 47:49	1.26	2920	*	2.5	*	*	0.969	0.963-0.973	
Hepta	PCB-171	7.93e+05	1.03	y 48:06	1.58	1180	*	2.5	*	*	0.974	0.970-0.980	
Hepta	PCB-173	5.61e+04	1.15	y 48:32	1.11	119	*	2.5	*	*	0.983	0.978-0.988	
Hepta	PCB-172	4.70e+05	1.20	y 48:59	1.63	676	*	2.5	*	*	0.992	0.987-0.997	
Hepta	PCB-192	*	*	n NotF η	1.74	*	*	1750	2.5	44.1	*	0.991-1.001	
Hepta	PCB-180	6.69e+06	1.11	y 49:23	1.34	11700	*	2.5	*	*	1.000	0.995-1.005	

Analyst: Dms

Date: 2/24/15

Client ID: ST-CB-08-20150210-S
Lab ID: 1500166-04@10X

Filename: 150219E2 S:10 Acq:19-FEB-15 23:44:30
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.108

ConCal: ST150219E2-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	3.60e+05	1.20	y 49:35	1.72	493		*	2.5	*	1.004	0.999-1.009	
Hepta	PCB-191	1.30e+05	1.24	n 49:50	1.69	180	R	*	2.5	*	1.009	1.004-1.014	
Hepta	PCB-170	2.45e+06	1.11	y 50:50	1.60	4430		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-190	6.39e+05	1.05	y 51:01	2.21	834		*	2.5	*	1.004	0.998-1.008	
Hepta	PCB-189	1.16e+05	1.35	n 52:19	1.55	185	R	*	2.5	*	1.000	0.995-1.005	
Octa	PCB-202	2.84e+05	0.91	y 48:19	1.08	621		*	2.5	*	1.001	0.995-1.005	
Octa	PCB-201	1.73e+05	0.91	y 48:48	1.15	356		*	2.5	*	1.011	1.005-1.015	
Octa	PCB-204	*	*	n NotF η	1.14	*		1490	2.5	72.6	*	1.008-1.018	
Octa	PCB-197	6.08e+04	0.82	y 49:16	1.07	134		*	2.5	*	1.020	1.015-1.025	
Octa	PCB-200	1.47e+05	0.93	y 50:06	1.06	328		*	2.5	*	1.038	1.032-1.044	
Octa	PCB-198	*	*	n NotF η	0.76	*		1490	2.5	109	*	1.059-1.069	
Octa	PCB-199	8.96e+05	0.89	y 51:31	0.80	2660		*	2.5	*	1.067	1.061-1.071	
Octa	PCB-196/203	1.06e+06	0.96	y 51:47	0.80	3120		*	2.5	*	1.072	1.066-1.076	
Octa	PCB-195	5.07e+05	0.93	y 52:57	1.23	826		*	2.5	*	0.984	0.979-0.989	
Octa	PCB-194	1.27e+06	0.88	y 53:50	1.21	2090		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	6.99e+04	1.01	y 54:07	1.54	90.5		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-208	2.73e+05	1.20	y 53:05	0.93	378		*	2.5	*	1.000	0.995-1.005	
Nona	PCB-207	1.29e+05	1.41	y 53:24	1.08	153		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-206	6.73e+05	1.29	y 55:31	1.02	1330		*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	2.92e+05	1.14	y 56:53	1.17	530		*	2.5	*	1.000	0.995-1.005	

Analyst: DMS

Date: 2/24/15

Client ID: ST-CB-08-20150210-S
Lab ID: 1500166-04@10X

Filename: 150219E2 S:10 Acq:19-FEB-15 23:44:30
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.1080

ConCal: ST150219E2-1
EndCAL: NA

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	3.95e+05	2.95 y	16:09	1.27	254.822	
Total Di-PCB	3.87e+06	1.58 y	20:05	1.21	1591.29	
Total Tri-PCB	2.78e+06	1.16 y	24:13	1.10	2558.19	
Total Tri-PCB	4.33e+06	0.95 y	28:27	1.21	3424.82	Sum:5983.01
Total Tetra-PCB	2.86e+07	0.78 y	29:45	1.09	27971.7	
Total Penta-PCB	5.98e+07	1.63 y	33:54	1.18	89163.6	
Total Penta-PCB	6.22e+06	1.50 y	42:12	1.25	4956.23	Sum:94119.8
Total Hexa-PCB	8.71e+06	1.34 y	39:33	0.90	25006.9	
Total Hexa-PCB	5.57e+07	1.12 y	42:10	1.11	56609.7	Sum:81616.6
Total Hepta-PCB	2.49e+07	1.03 y	44:05	1.42	39527.8	
Total Octa-PCB	2.62e+06	0.91 y	48:19	0.96	7217.69	
Total Octa-PCB	1.85e+06	0.93 y	52:57	1.33	3008.48	Sum:10226.2
Total Nona-PCB	1.07e+06	1.20 y	53:05	1.01	1864.96	
Total Deca-PCB	2.92e+05	1.14 y	56:53	1.17	529.825	

Total PCB Conc:264205.492530

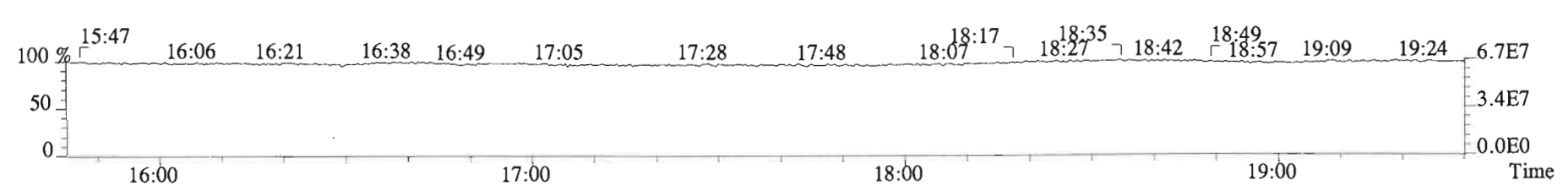
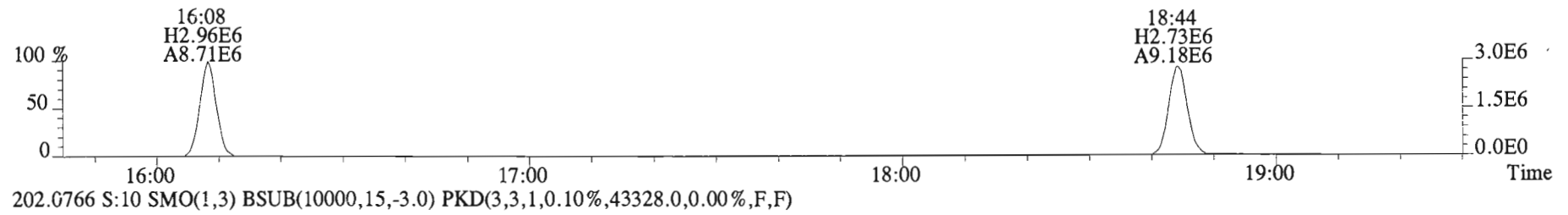
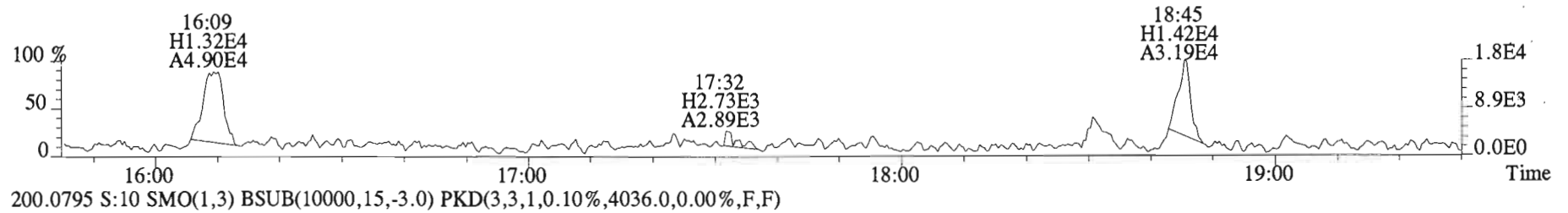
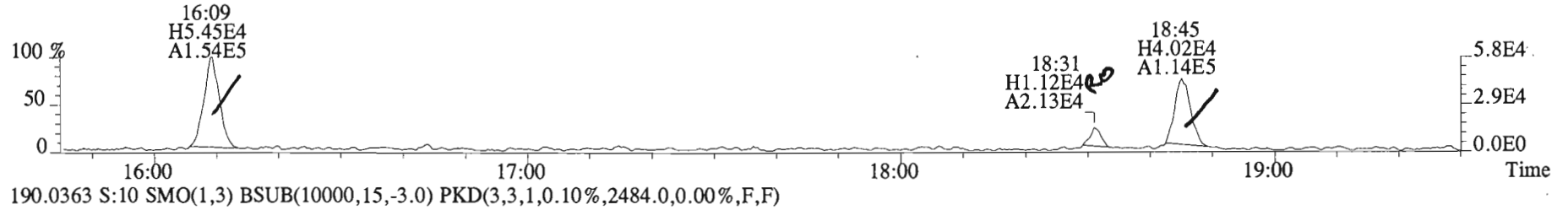
Integrations
by
Analyst: Dms
Date: 2/24/15

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	
13C-PCB-1	1.13e+07	3.42 y	0.87	16:08	0.623	0.629-0.635	OK	5120	54.0												
13C-PCB-3	1.17e+07	3.59 y	0.91	18:44	0.723	0.725-0.733		5090	53.7		13C-PCB-79	1.09e+07	0.76 y	1.02	37:48	1.029	1.023-1.034	9090	95.8		
13C-PCB-4	1.22e+07	1.65 y	0.59	20:04	0.774	0.775-0.783		8230	86.7		13C-PCB-178	4.10e+06	0.47 y	0.61	45:39	0.984	0.979-0.990	8270	87.2		
13C-PCB-9	1.88e+07	1.60 y	0.90	21:51	0.843	0.842-0.850		8320	87.7												
13C-PCB-11	2.00e+07	1.62 y	0.94	25:13	0.973	0.968-0.978		8460	89.2												
13C-PCB-19	8.51e+06	1.16 y	0.53	24:12	0.934	0.930-0.940		6360	67.1												
13C-PCB-28	9.24e+06	1.01 y	0.93	29:03	1.003	0.999-1.009		8850	93.3		13C-PCB-79	1.09e+07	0.76 y	1.10	37:48	0.968	0.964-0.974	9750	103		
13C-PCB-32	1.19e+07	1.17 y	0.80	27:06	1.046	1.040-1.050		5930	62.5		13C-PCB-178	4.10e+06	0.47 y	0.90	45:39	0.925	0.920-0.930	10700	113		
13C-PCB-37	8.92e+06	0.97 y	0.84	32:56	1.137	1.131-1.143		9480	100.0												
13C-PCB-47	8.47e+06	0.79 y	0.81	31:59	0.870	0.866-0.874		8840	93.2												
13C-PCB-52	7.99e+06	0.75 y	0.77	31:29	0.857	0.853-0.861		8770	92.5												
13C-PCB-54	1.02e+07	0.81 y	0.97	27:57	0.761	0.758-0.766		8910	93.9												
13C-PCB-70	1.05e+07	0.77 y	1.00	35:30	0.966	0.961-0.971		8930	94.2												
13C-PCB-77	9.70e+06	0.81 y	0.94	39:38	1.078	1.073-1.083		8720	91.9												
13C-PCB-80	1.06e+07	0.81 y	1.03	35:55	0.977	0.972-0.982		8680	91.4												
13C-PCB-81	9.62e+06	0.76 y	0.92	39:02	1.062	1.057-1.067		8840	93.2												
13C-PCB-95	4.81e+06	1.67 y	0.74	35:48	0.913	0.908-0.918		8600	90.7												
13C-PCB-97	4.68e+06	1.64 y	0.70	38:47	0.989	0.984-0.994		8810	92.9												
13C-PCB-101	5.09e+06	1.59 y	0.78	37:29	0.956	0.951-0.961		8600	90.7												
13C-PCB-104	6.38e+06	1.63 y	1.00	32:38	0.832	0.828-0.836		8440	88.9		13C-PCB-15	2.39e+07	1.55 y	1.00	25:55	28:58	9490				
13C-PCB-105	9.25e+06	1.59 y	1.37	43:04	0.928	0.924-0.934		8390	88.4		13C-PCB-31	1.06e+07	1.12 y	1.00	36:45	9490					
13C-PCB-114	9.41e+06	1.50 y	1.36	42:12	0.910	0.905-0.915		8550	90.1		13C-PCB-60	1.12e+07	0.75 y	1.00	39:13	9490					
13C-PCB-118	5.99e+06	1.60 y	0.96	41:33	1.059	1.054-1.064		8270	87.2		13C-PCB-111	7.16e+06	1.64 y	1.00	46:23	9490					
13C-PCB-123	5.84e+06	1.67 y	0.89	41:22	1.055	1.050-1.060		8650	91.2		13C-PCB-128	7.66e+06	1.21 y	1.00	54:06	9490					
13C-PCB-126	7.70e+06	1.61 y	1.31	45:19	0.977	0.972-0.982		7300	77.0		13C-PCB-205	6.99e+06	0.90 y	1.00							
13C-PCB-127	8.97e+06	1.48 y	1.47	43:25	0.936	0.931-0.941		7540	79.5												
13C-PCB-138	7.47e+06	1.25 y	1.10	44:48	0.966	0.961-0.971		8420	88.7												
13C-PCB-141	7.34e+06	1.22 y	1.07	43:58	0.948	0.943-0.953		8460	89.1												
13C-PCB-153	7.97e+06	1.28 y	1.15	43:13	0.932	0.927-0.937		8610	90.7												
13C-PCB-155	4.15e+06	1.38 y	0.84	37:02	0.944	0.939-0.949		6550	69.0												
13C-PCB-156	8.83e+06	1.27 y	1.30	48:05	1.037	1.032-1.042		8440	89.0												
13C-PCB-157	9.19e+06	1.28 y	1.36	48:21	1.042	1.038-1.048		8390	88.4												
13C-PCB-159	8.45e+06	1.28 y	1.25	46:06	0.994	0.989-0.999		8400	88.5												
13C-PCB-167	9.31e+06	1.27 y	1.35	46:47	1.009	1.004-1.014		8530	89.9												
13C-PCB-169	8.08e+06	1.23 y	1.29	50:29	1.088	1.083-1.093		7780	82.1												
13C-PCB-170	3.29e+06	0.45 y	0.54	50:50	1.096	1.089-1.101		7510	79.2												
13C-PCB-180	4.04e+06	0.46 y	0.68	49:22	1.064	1.060-1.070		7310	77.1												
13C-PCB-188	5.58e+06	0.47 y	0.92	42:50	0.923	0.919-0.929		7530	79.4												
13C-PCB-189	3.84e+06	0.49 y	0.72	52:18	1.128	1.120-1.132		6650	70.1												
13C-PCB-194	4.76e+06	0.89 y	0.80	53:49	0.995	0.990-1.000		8090	85.2												
13C-PCB-202	4.01e+06	0.88 y	0.84	48:17	1.041	1.036-1.046		5930	62.5												
13C-PCB-206	4.68e+06	0.75 y	0.65	55:30	1.026	1.021-1.031		9770	103												
13C-PCB-208	7.34e+06	0.77 y	1.08	53:04	0.981	0.976-0.986		9220	97.2												
13C-PCB-209	4.47e+06	1.11 y	0.61	56:53	1.051	1.045-1.055		9940	105												

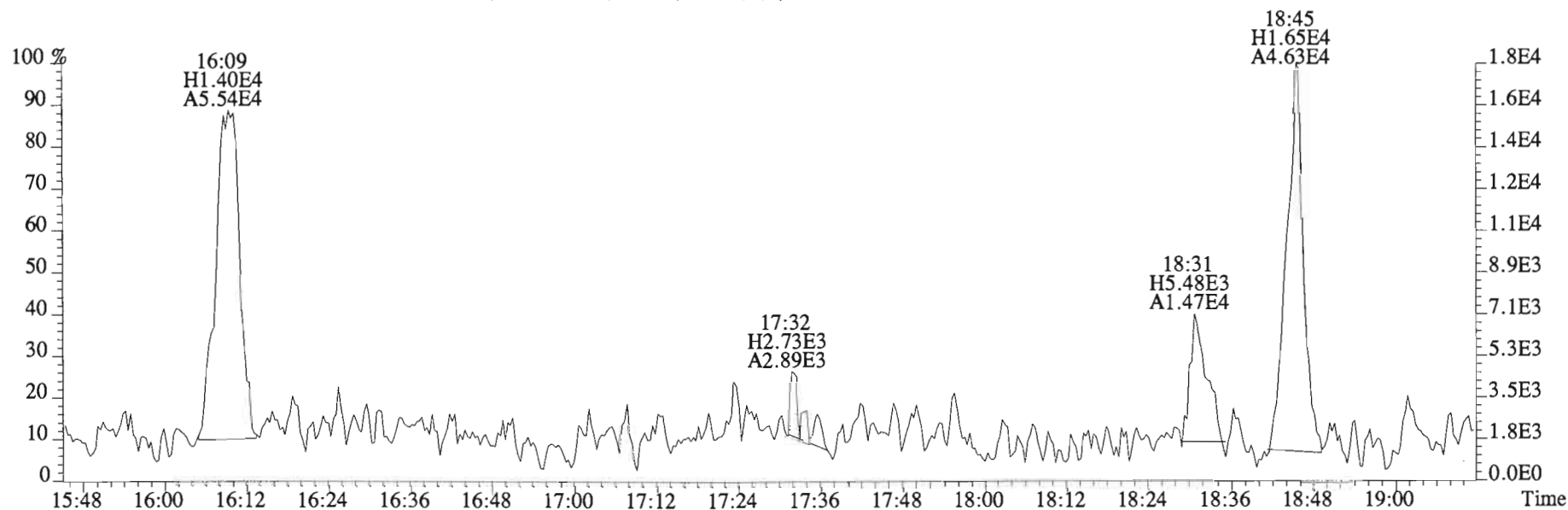
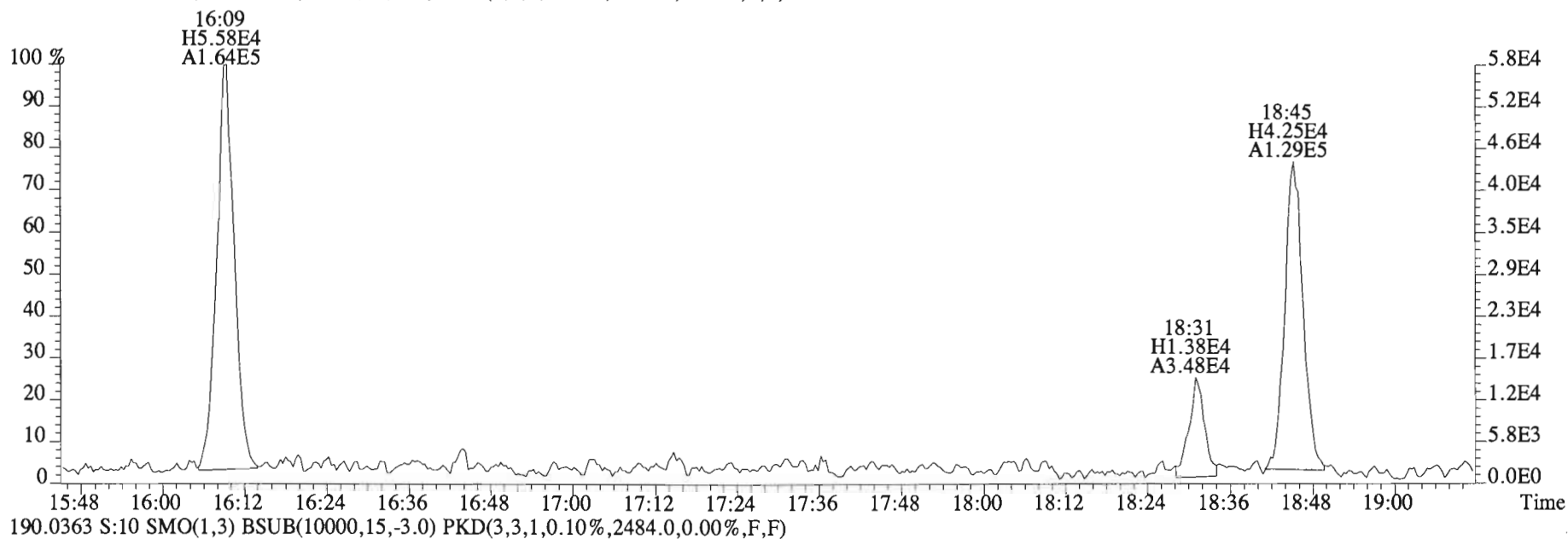
Analyst: DMS

Date: 2/24/15

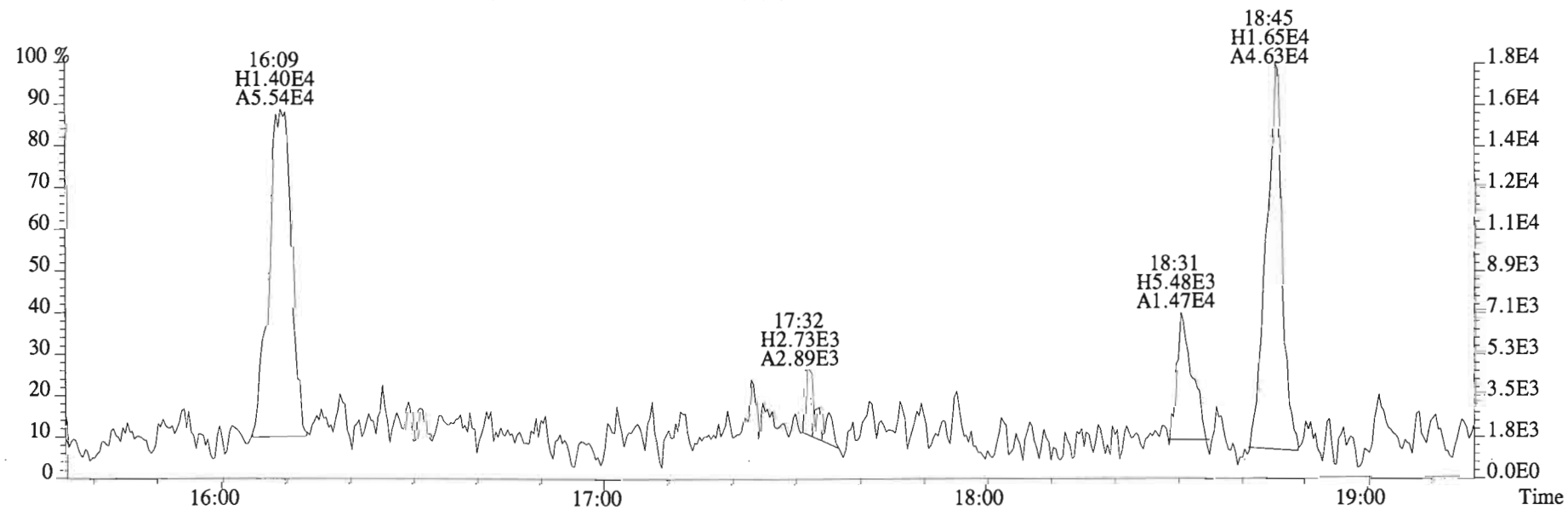
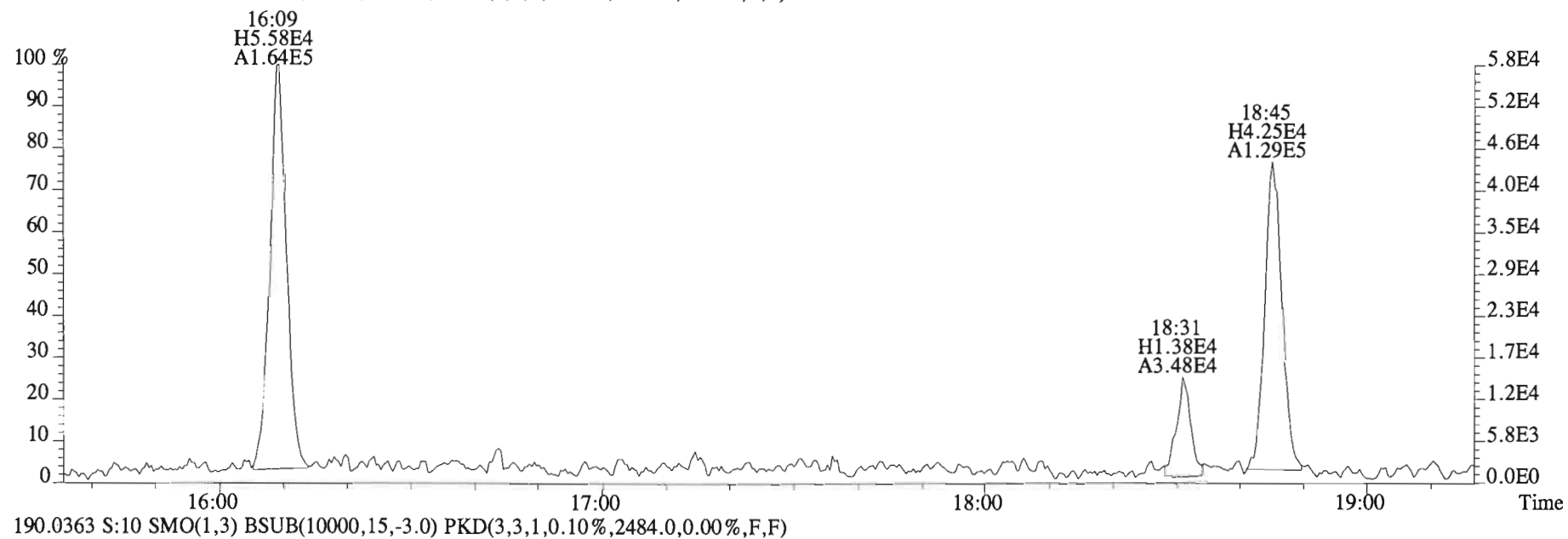
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
188.0393 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2528.0,0.00%,F,F)



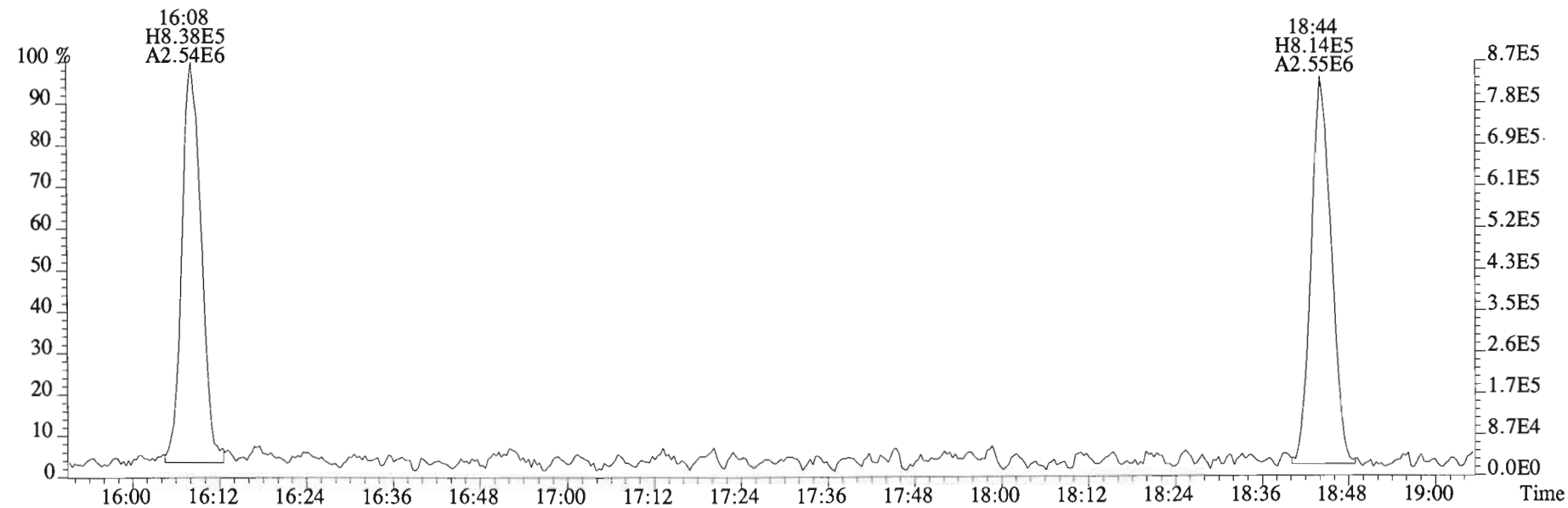
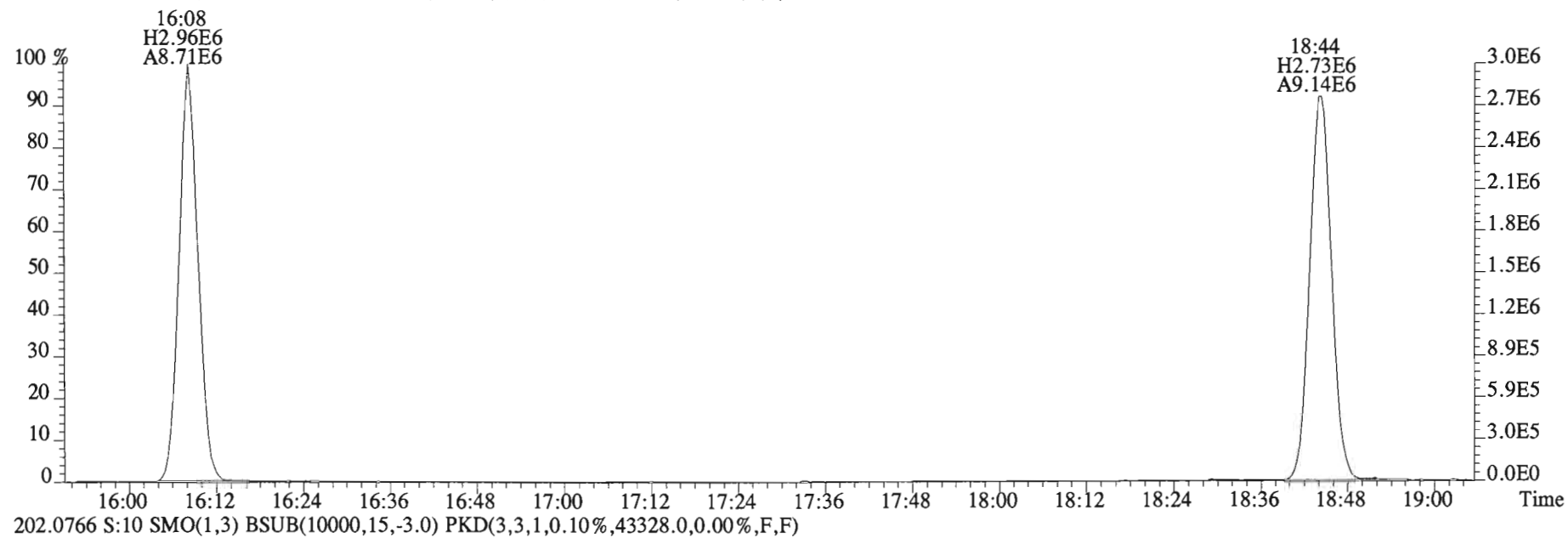
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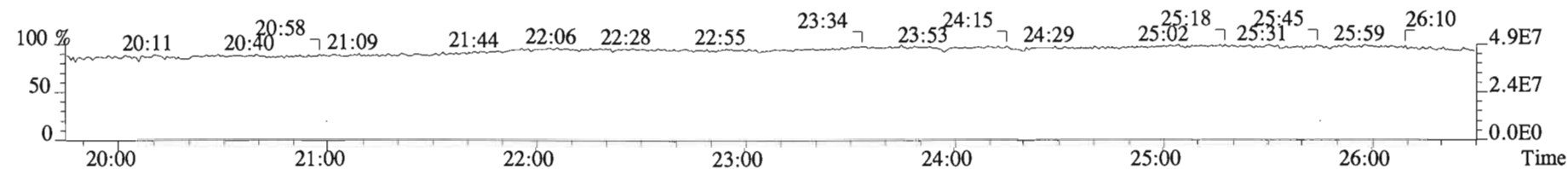
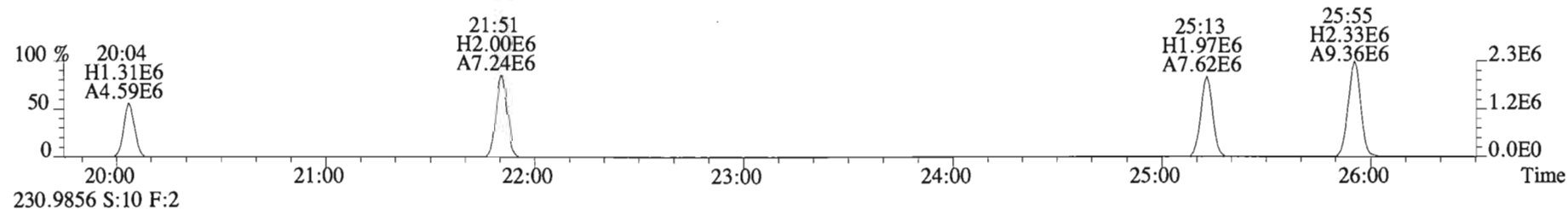
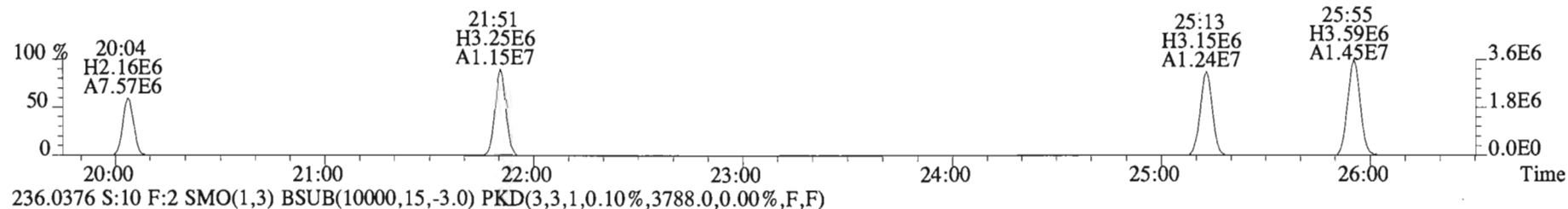
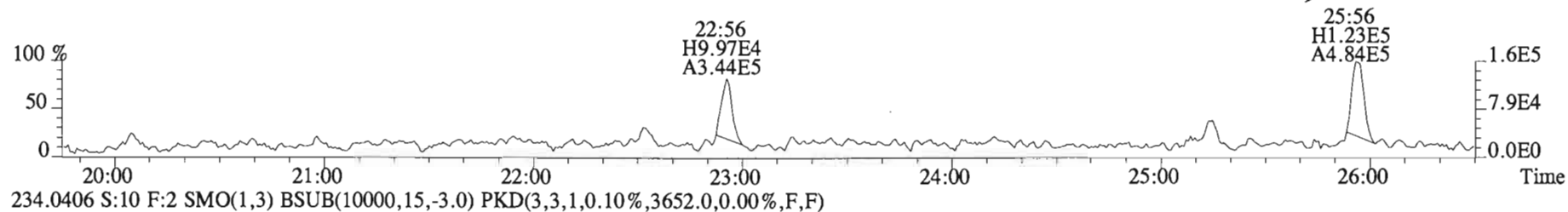
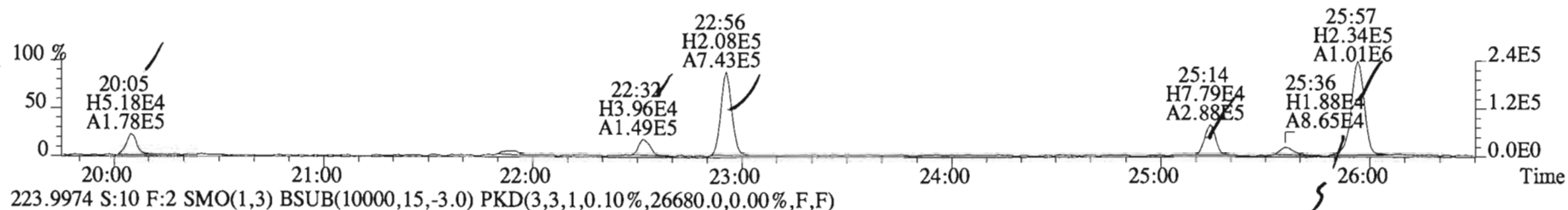
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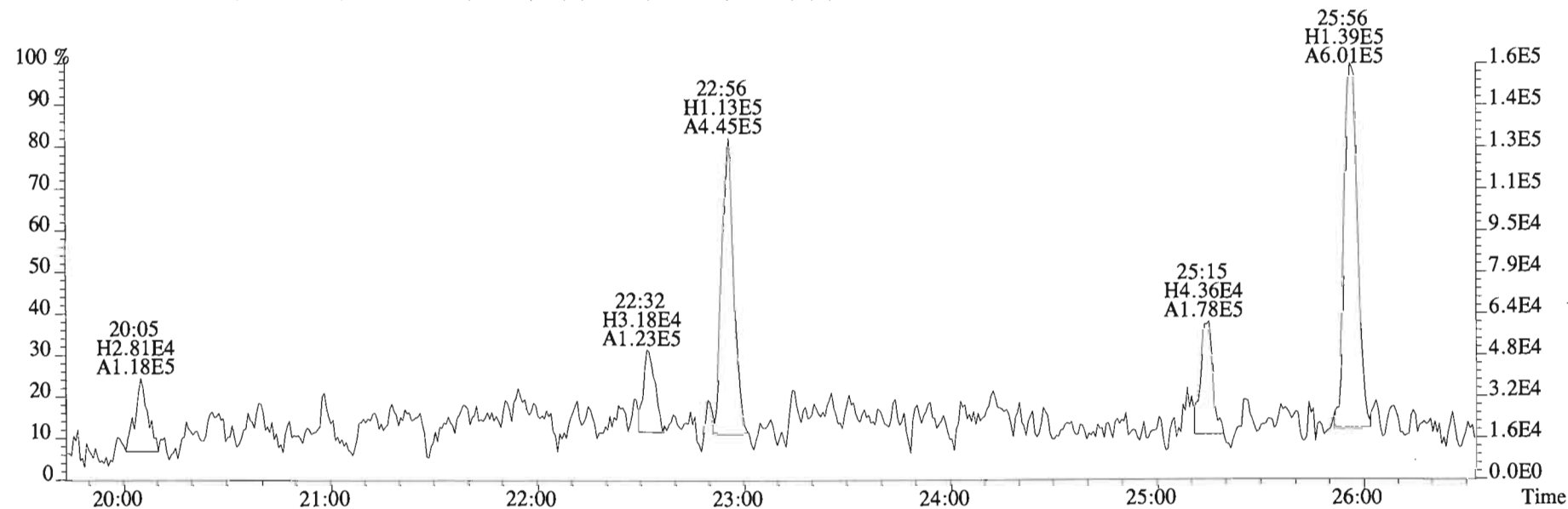
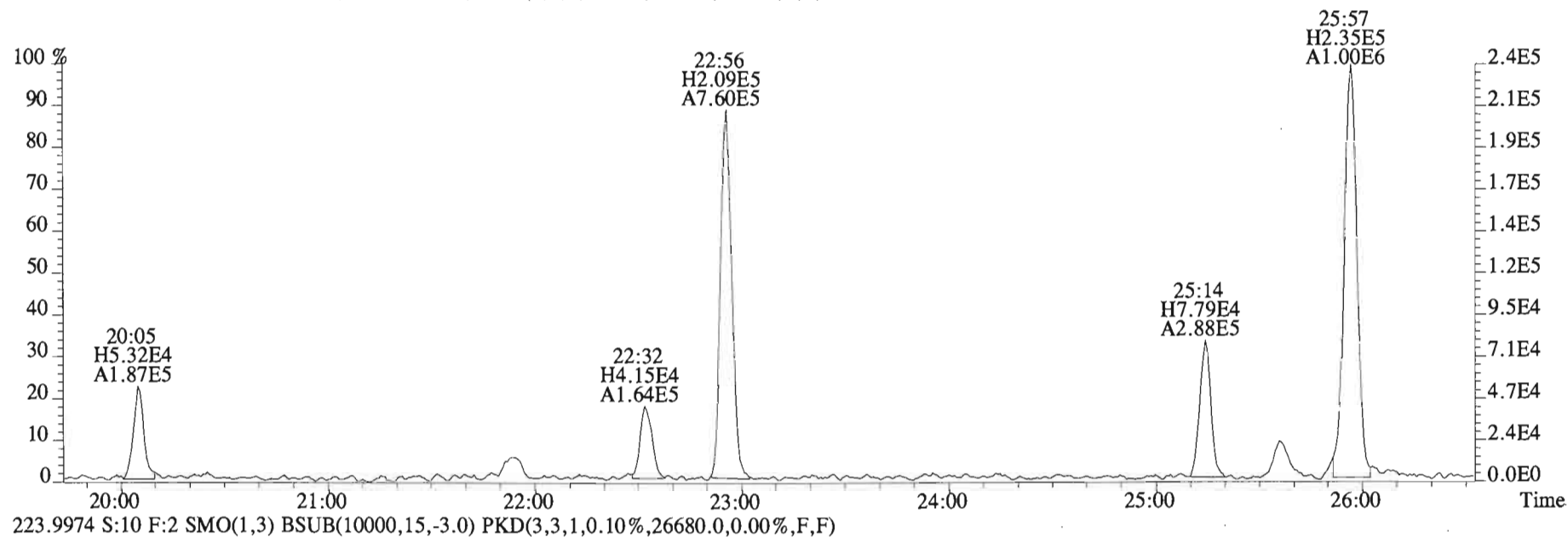
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
200.0795 S:10 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,4036.0,0.00%,F,F)



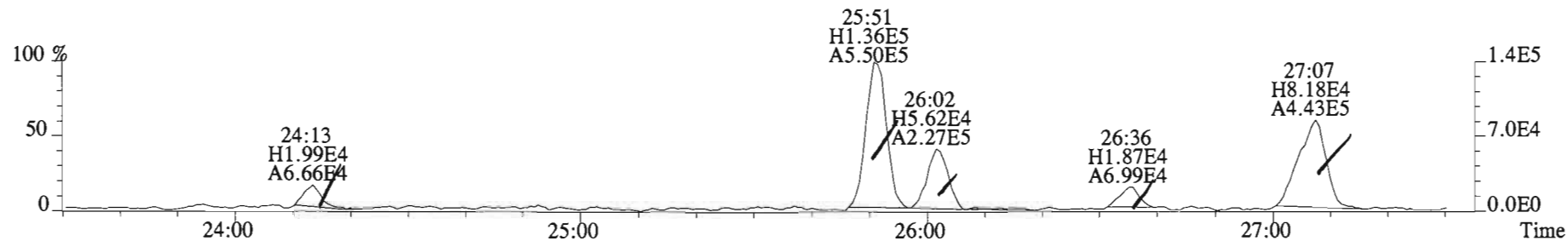
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 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
 222.0003 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3472.0,0.00%,F,F)



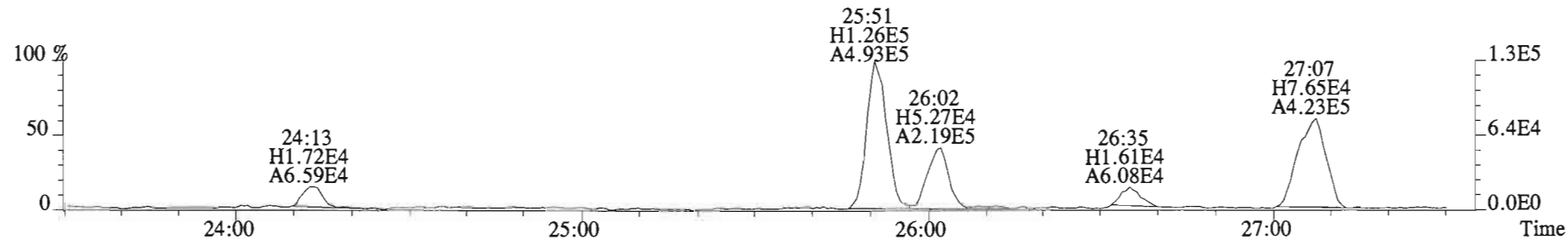
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
222.0003 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3472.0,0.00%,F,F)



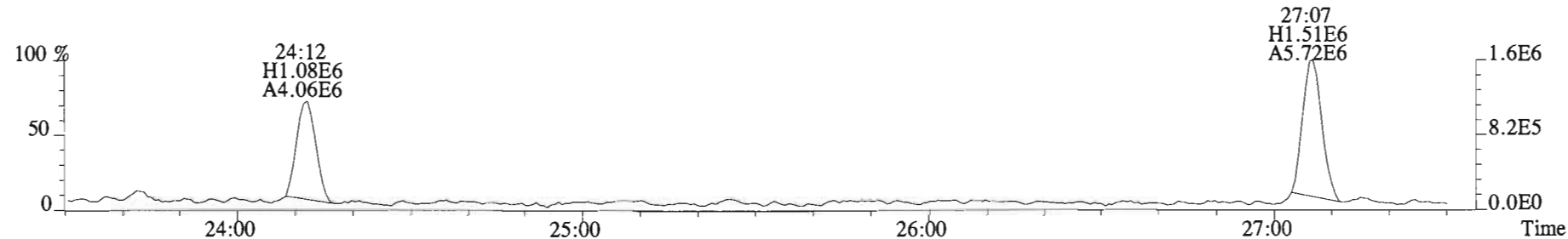
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
255.9613 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3836.0,0.00%,F,F)



257.9584 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2456.0,0.00%,F,F)



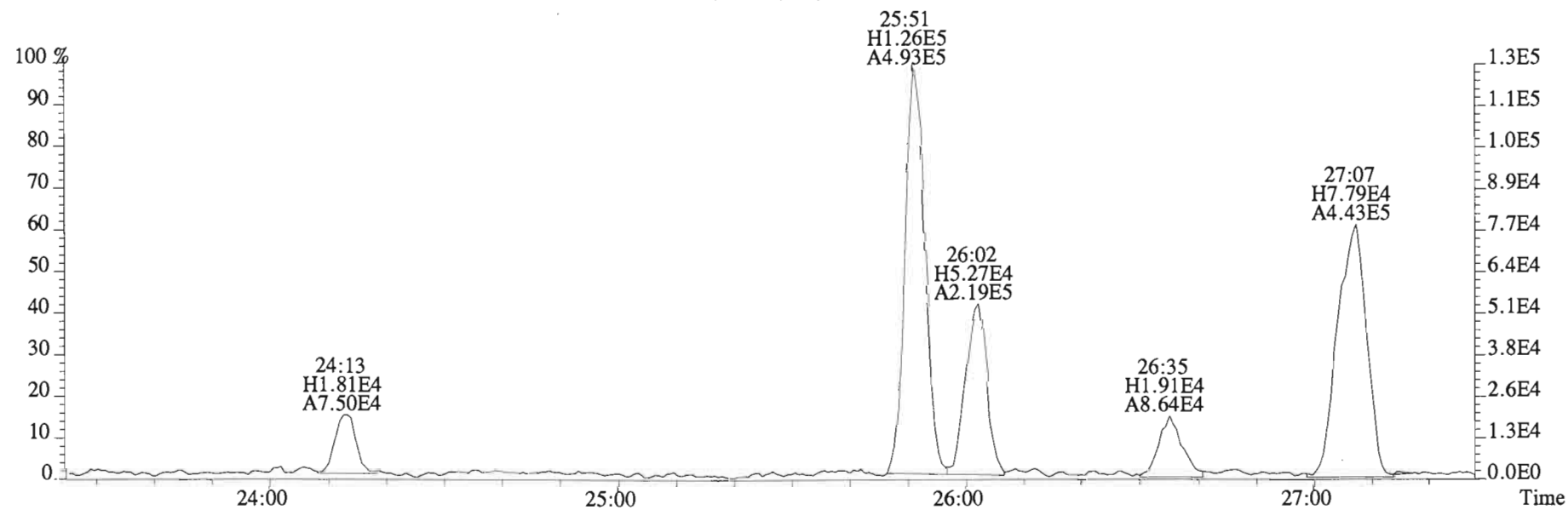
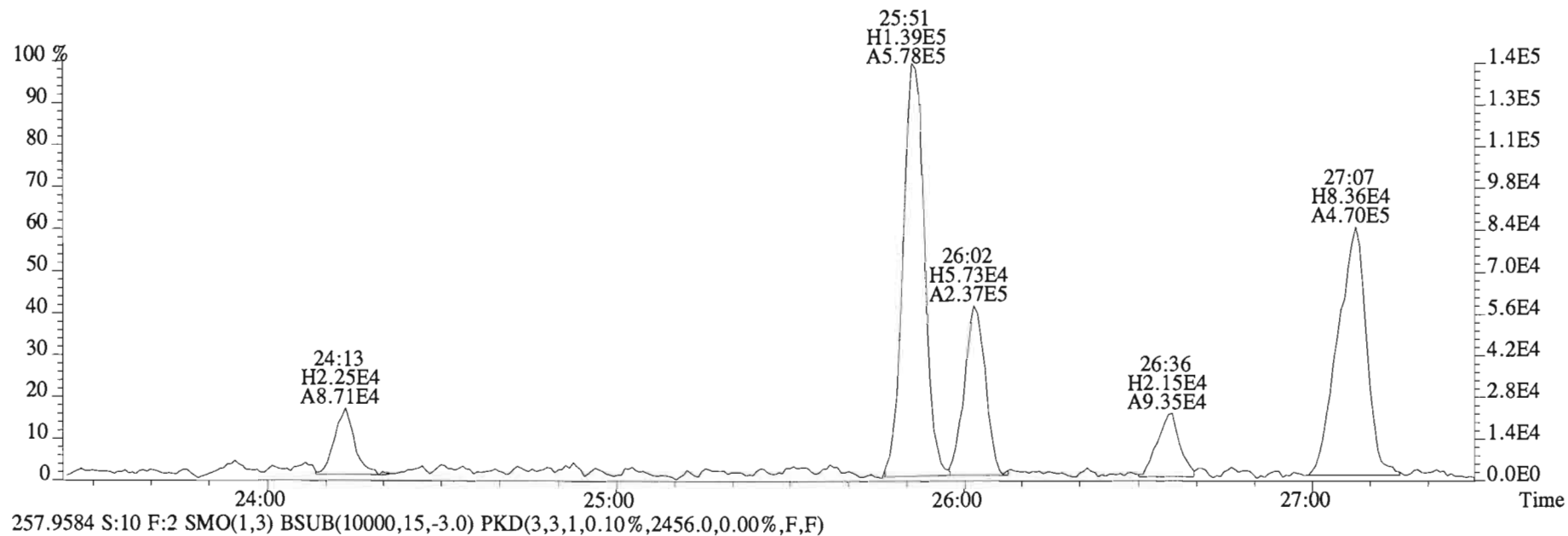
268.0016 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,119572.0,0.00%,F,F)



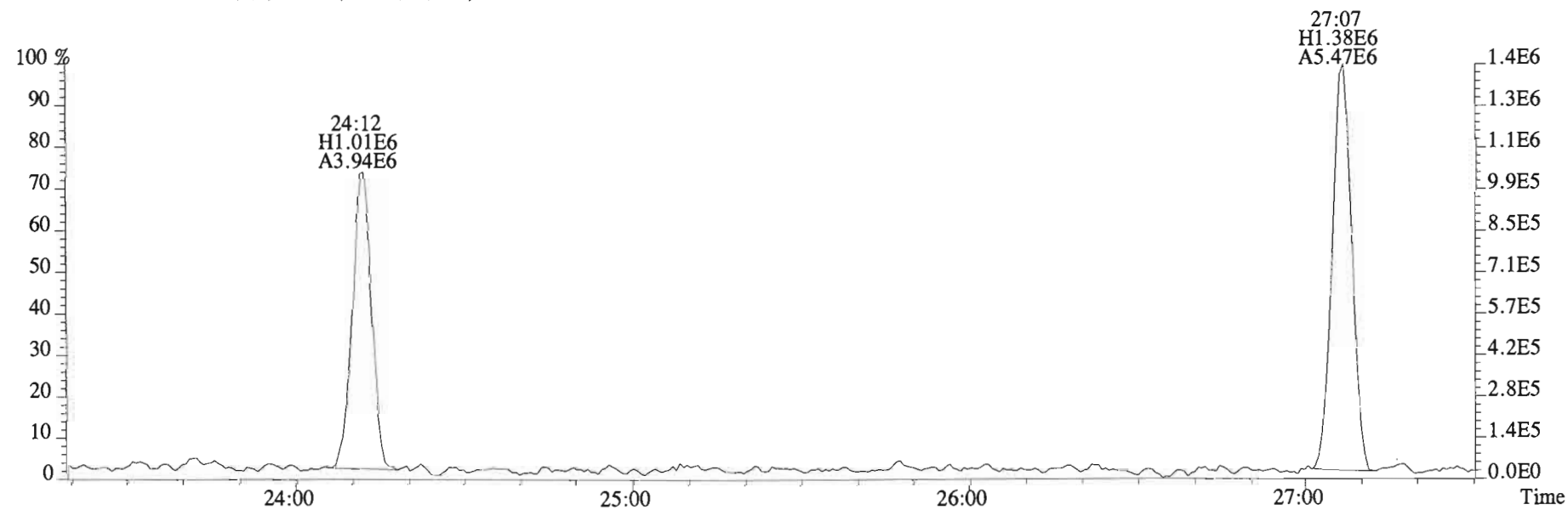
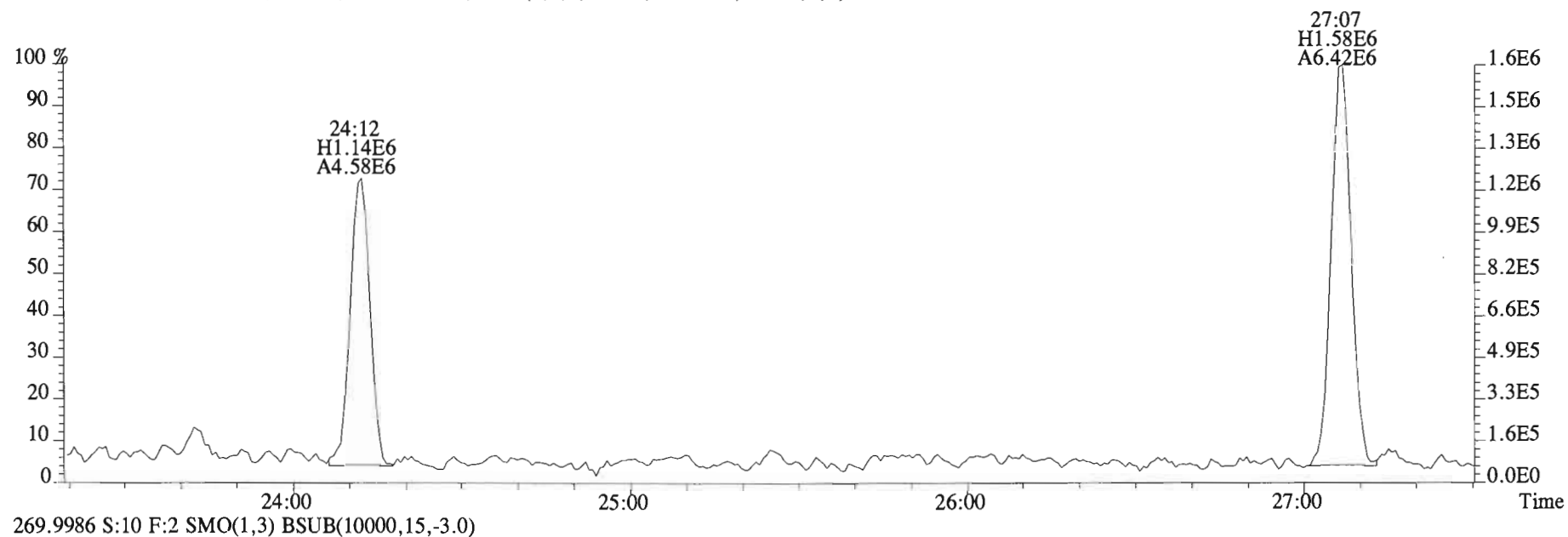
269.9986 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,46684.0,0.00%,F,F)



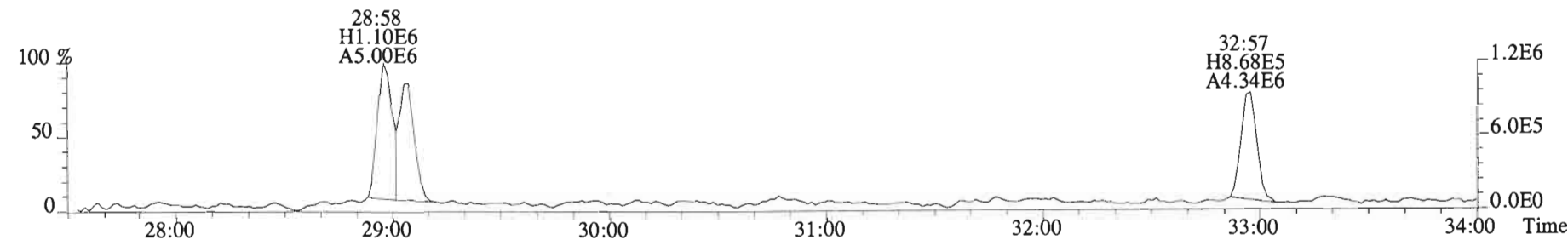
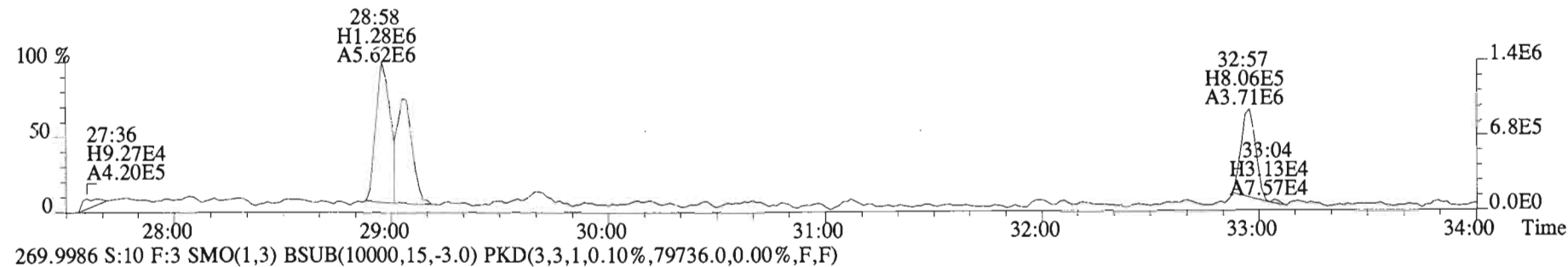
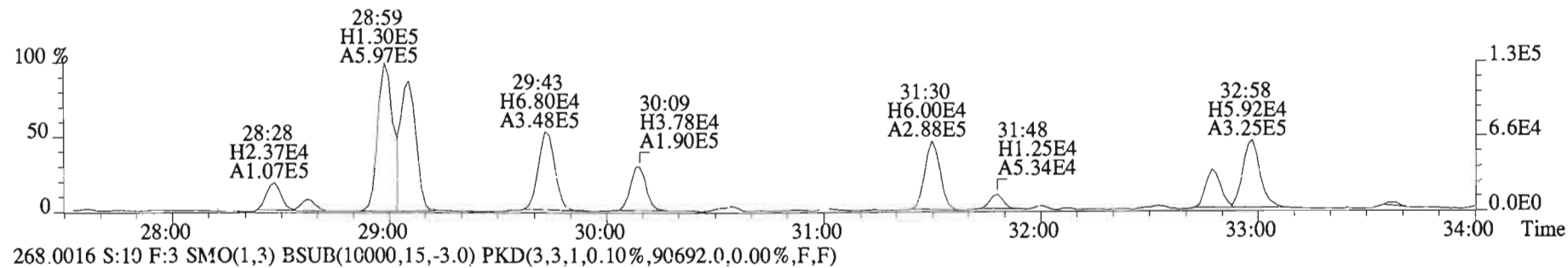
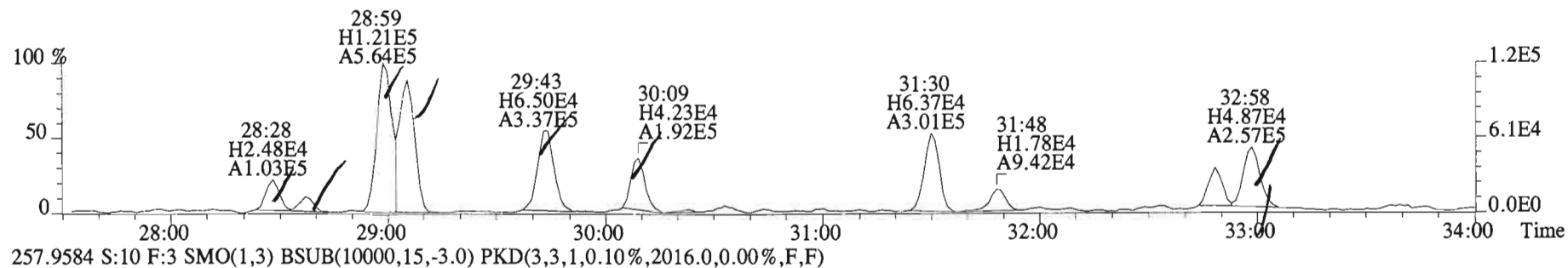
File:150219E2 #1-757 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
255.9613 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3836.0,0.00%,F,F)



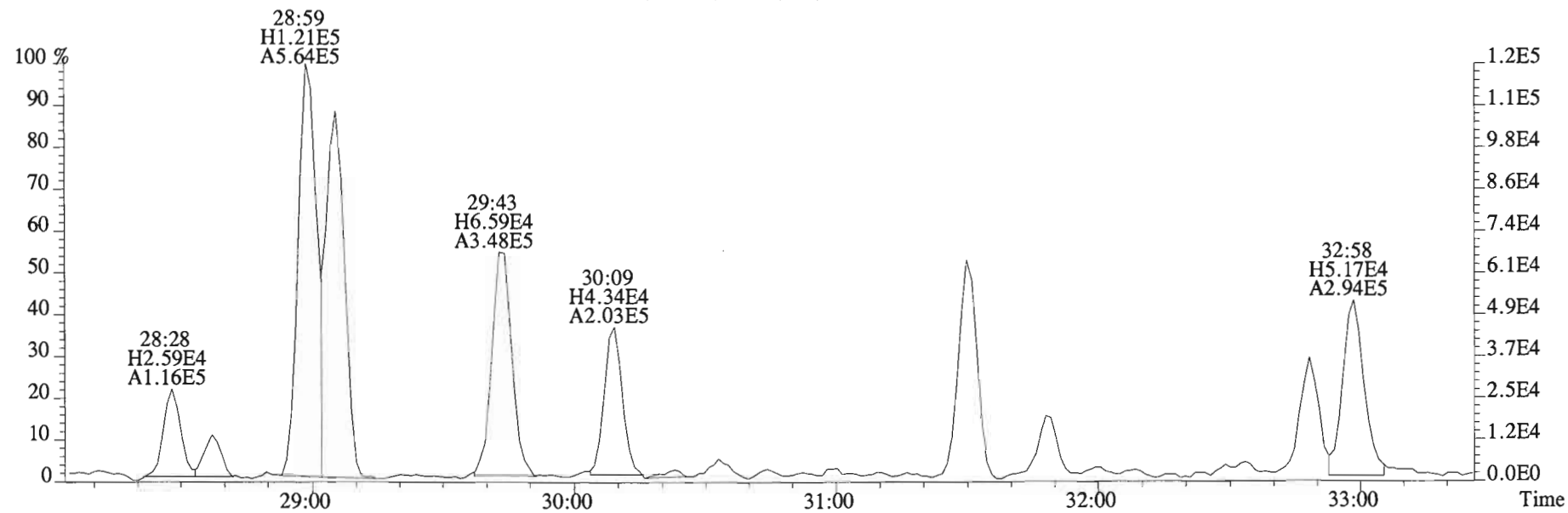
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
268.0016 S:10 F:2 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,119572.0,0.00%,F,F)



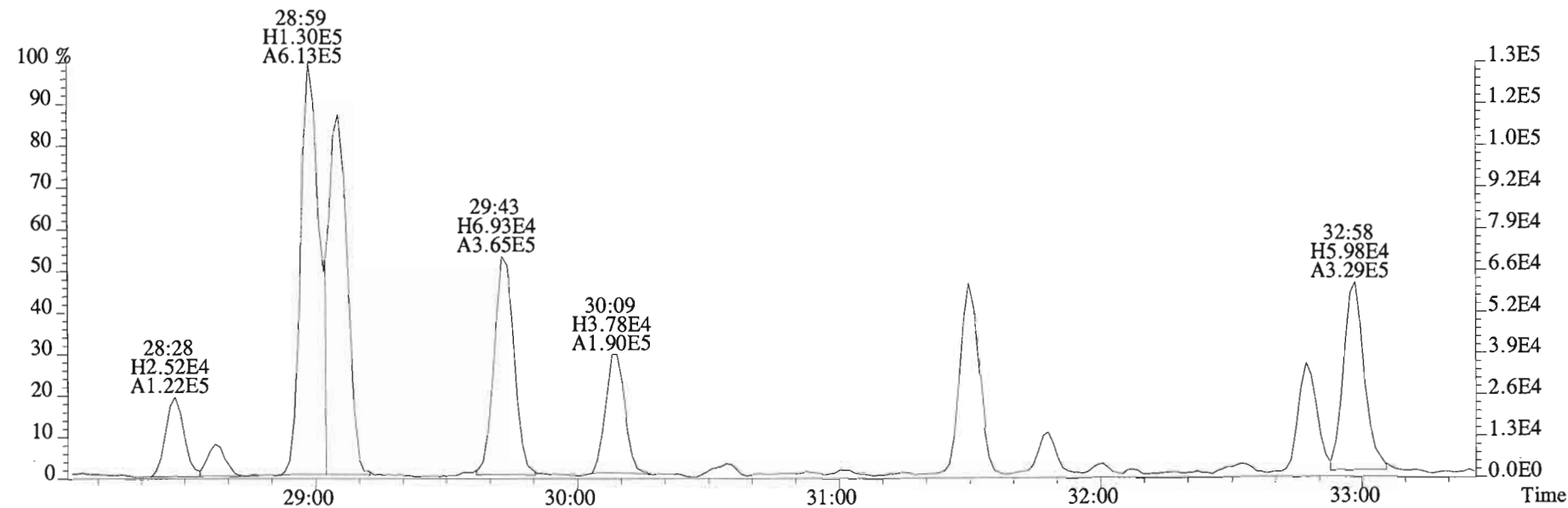
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255.9613 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2856.0,0.00%,F,F)



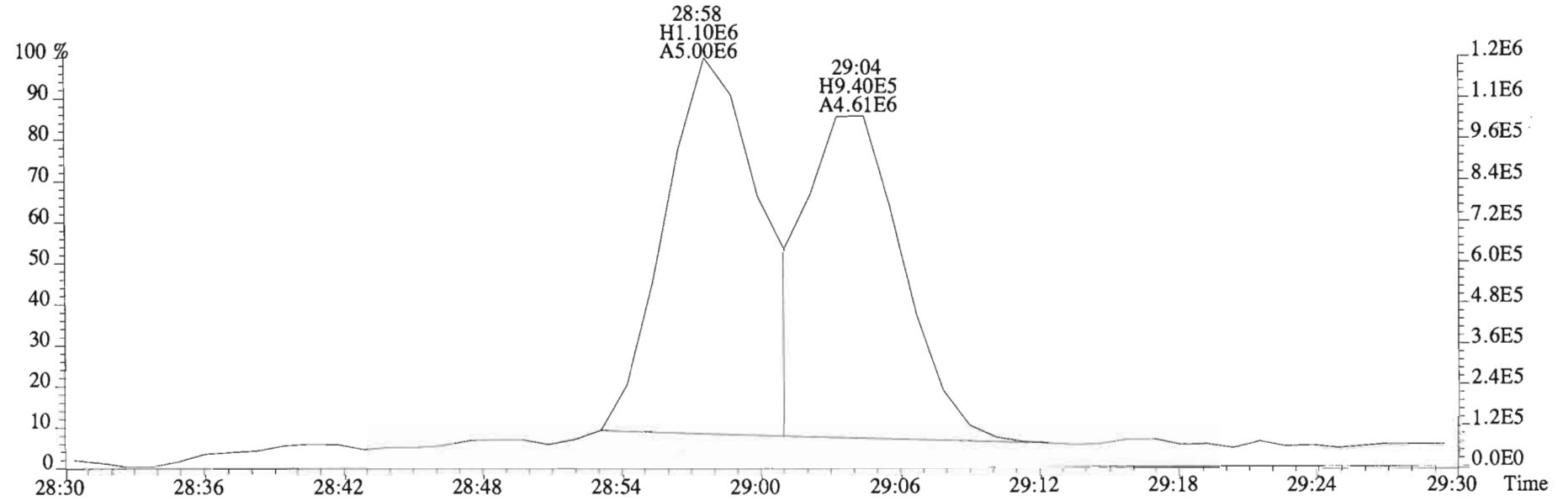
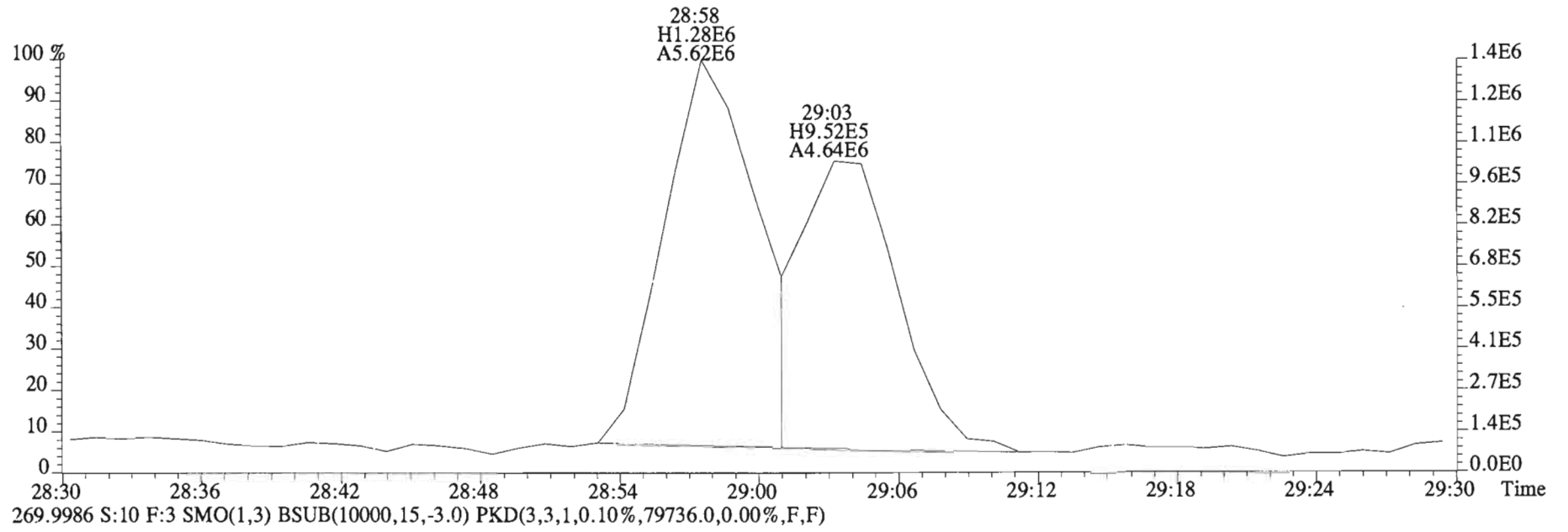
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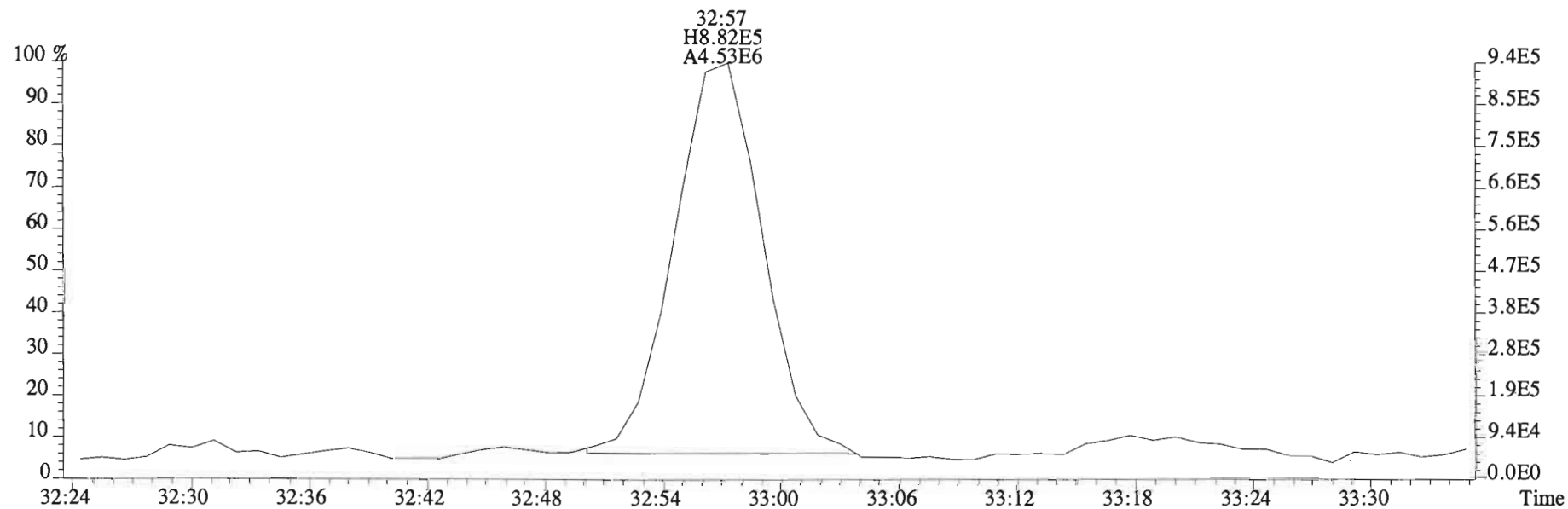
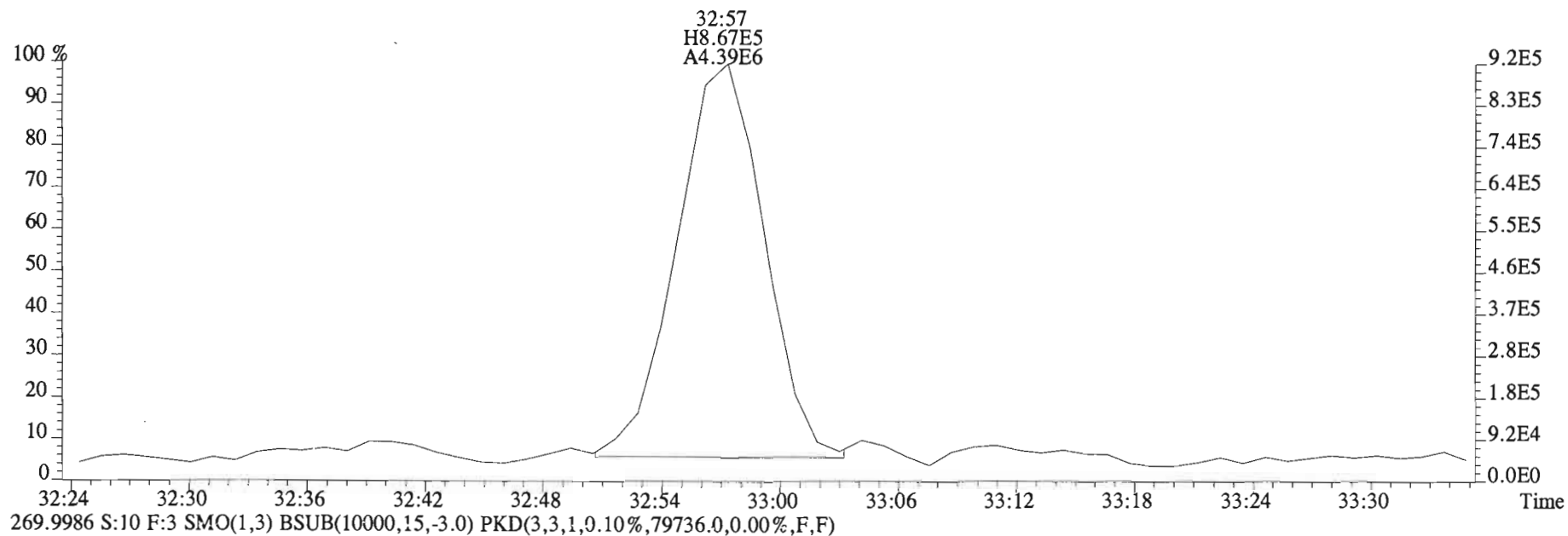
257.9584 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2016.0,0.00%,F,F)



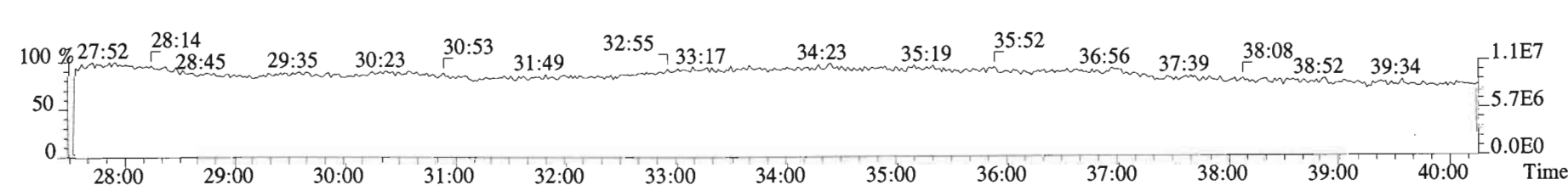
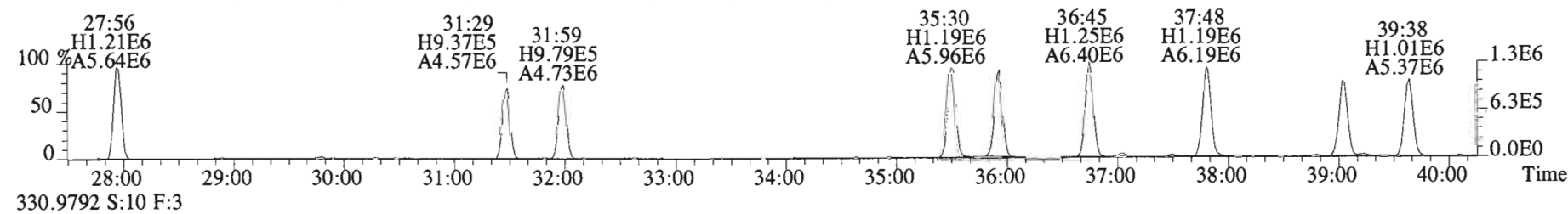
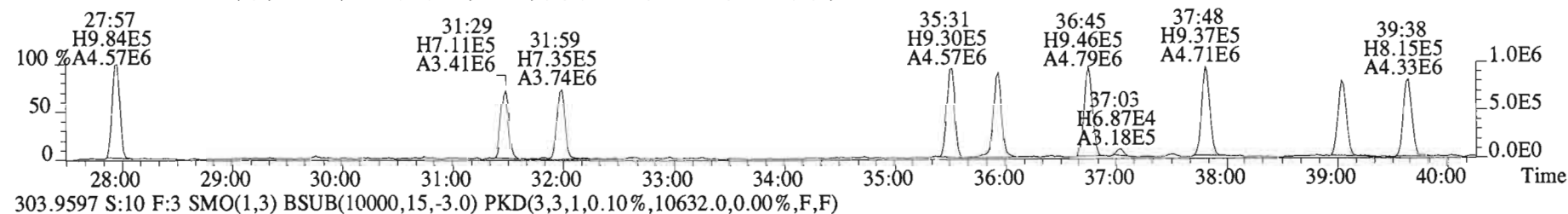
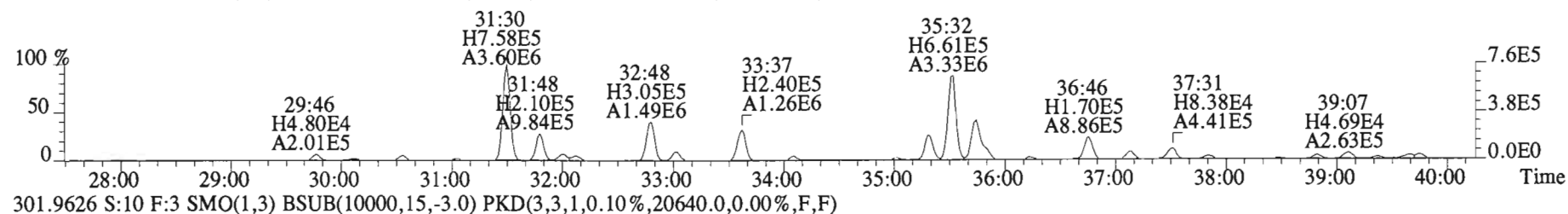
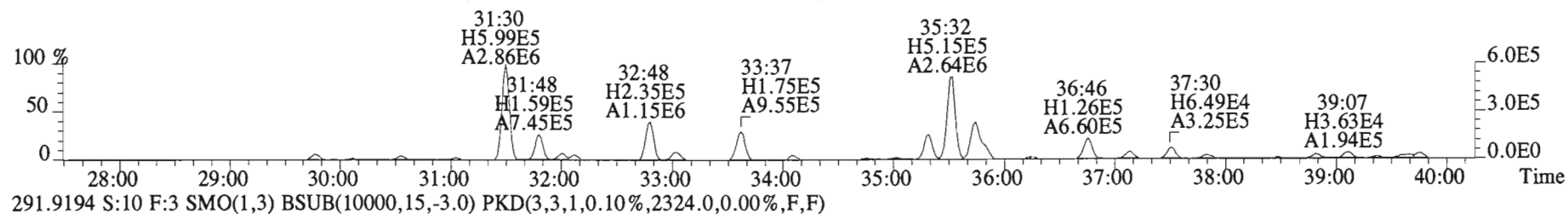
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
268.0016 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,90692.0,0.00%,F,F)



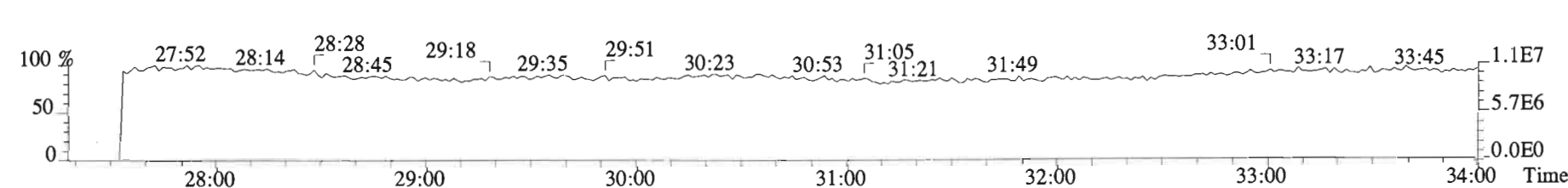
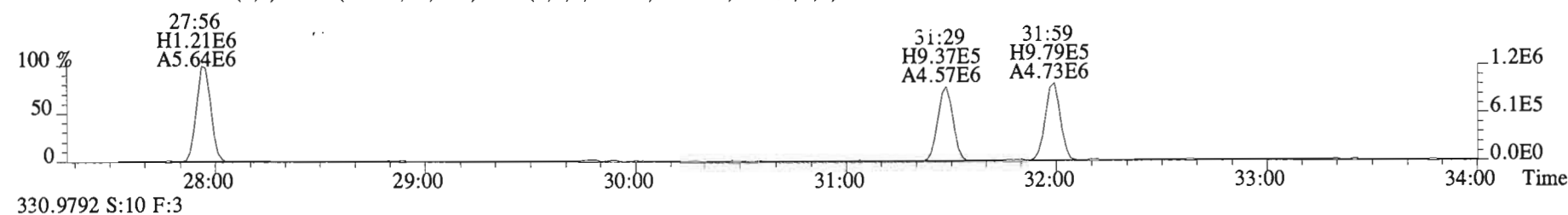
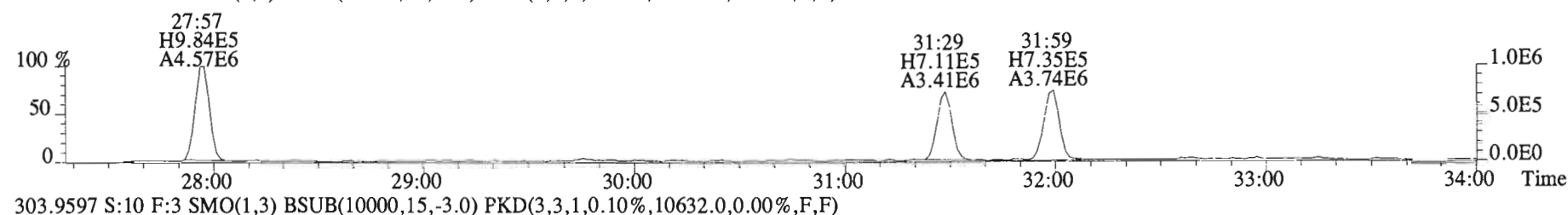
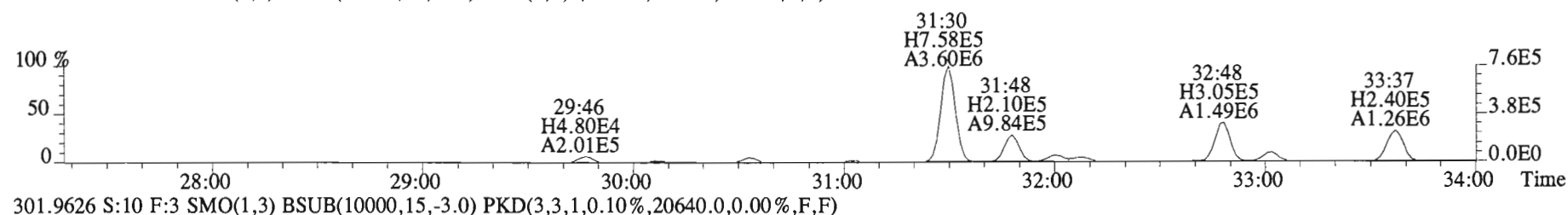
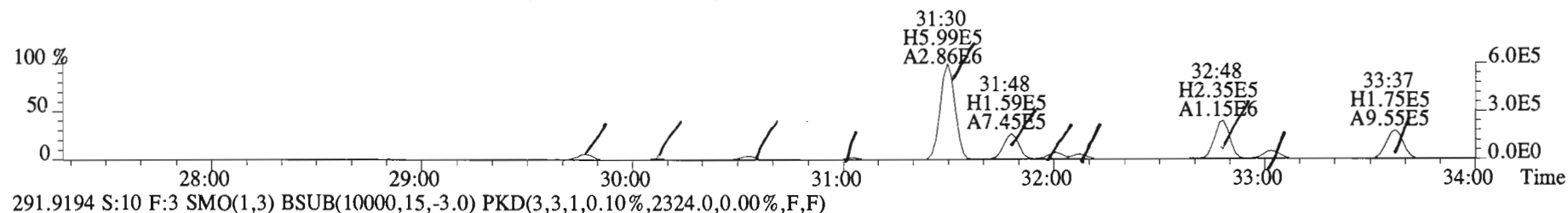
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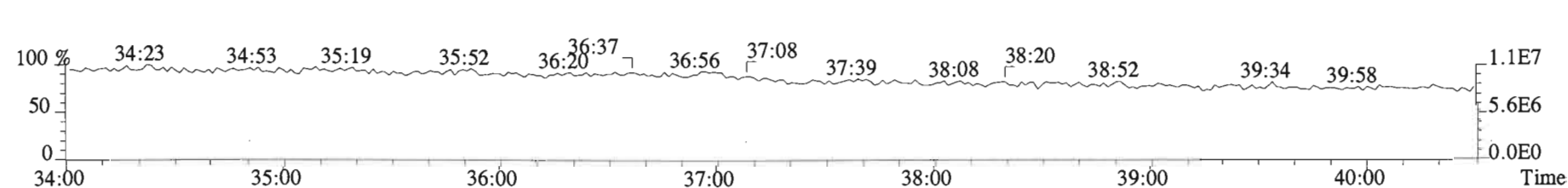
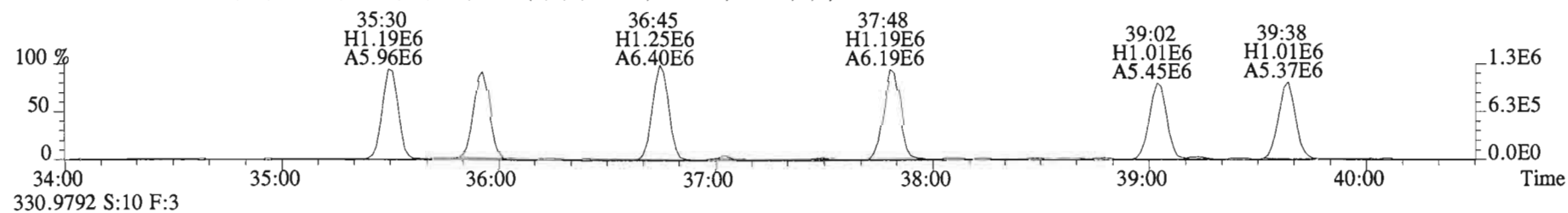
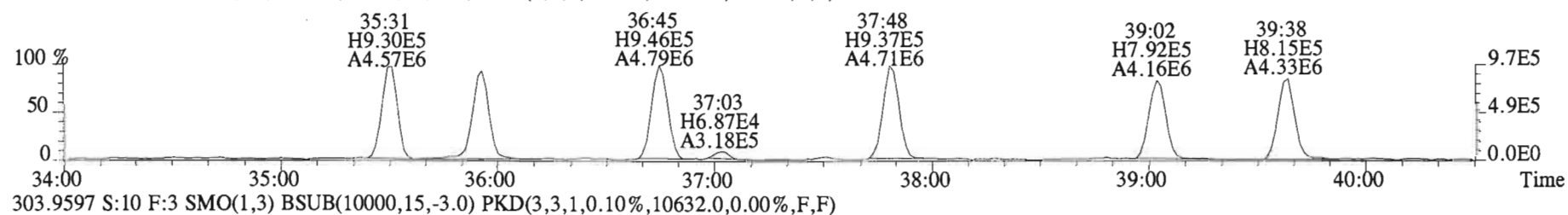
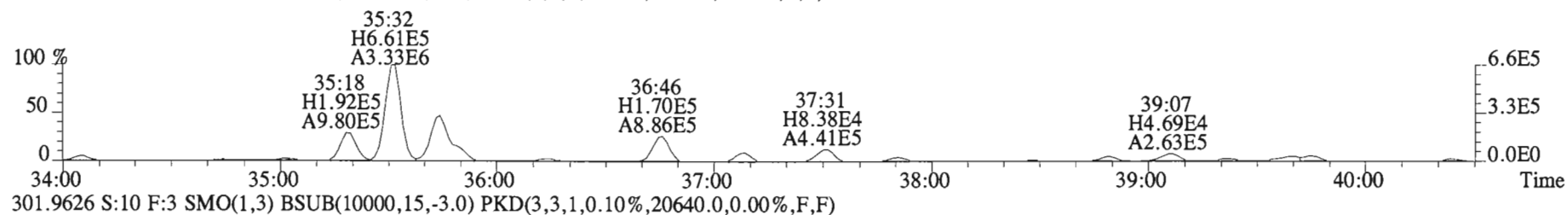
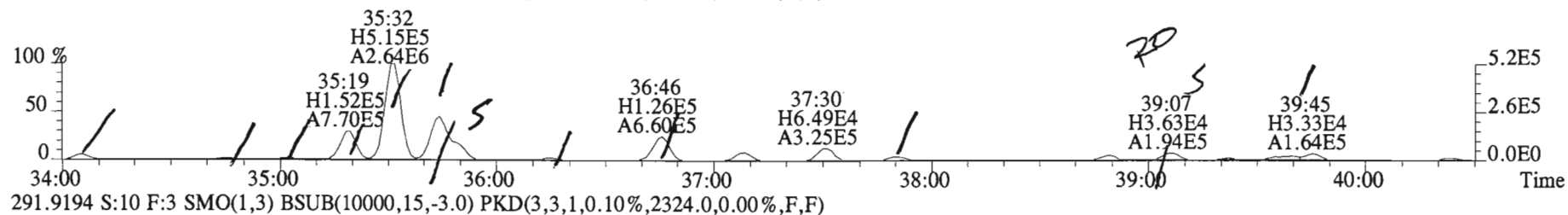
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289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2084.0,0.00%,F,F)



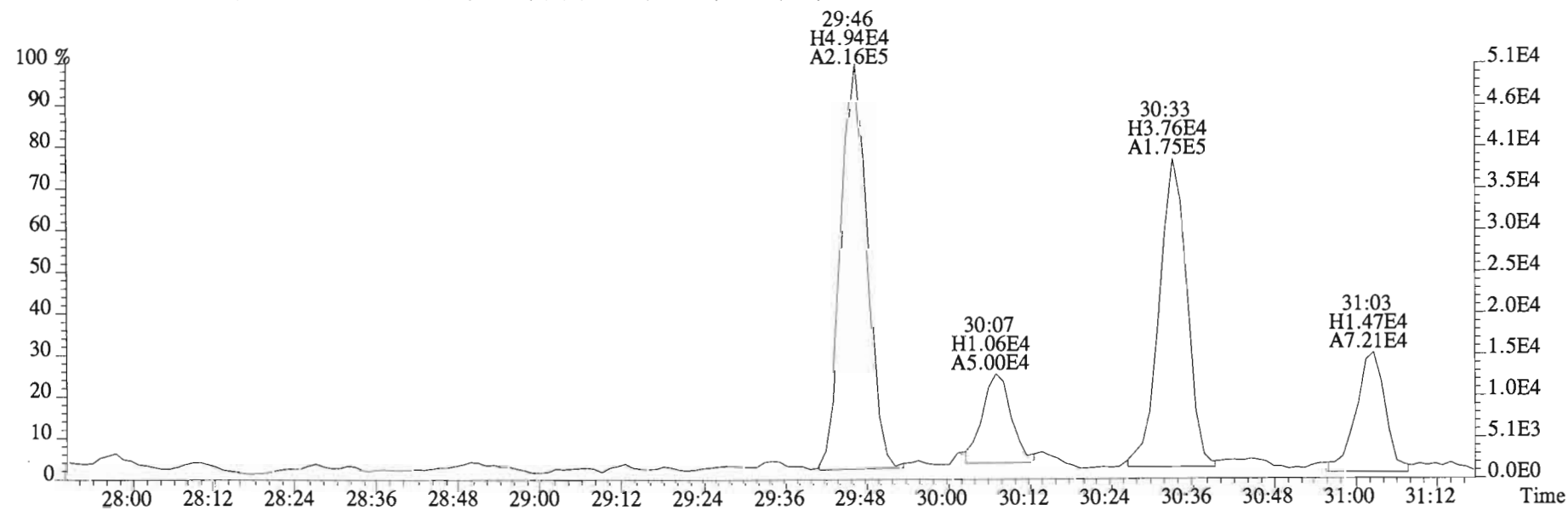
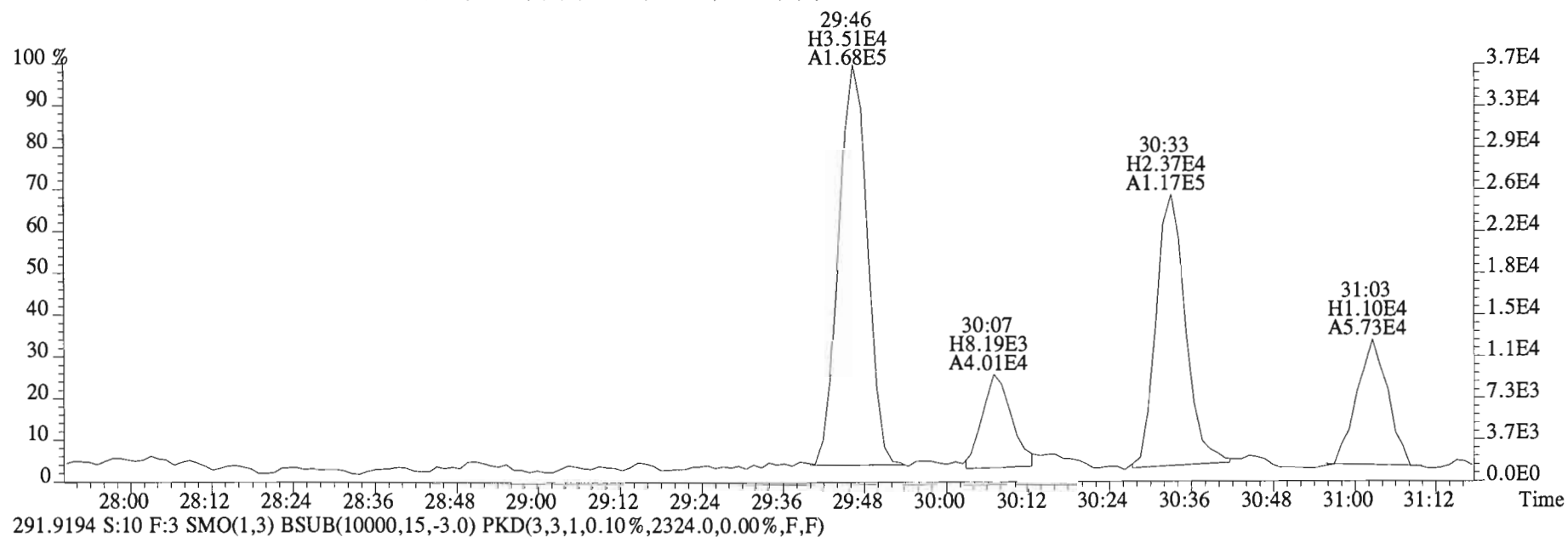
File:150219E2 #1-758 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
 289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2084.0,0.00%,F,F)



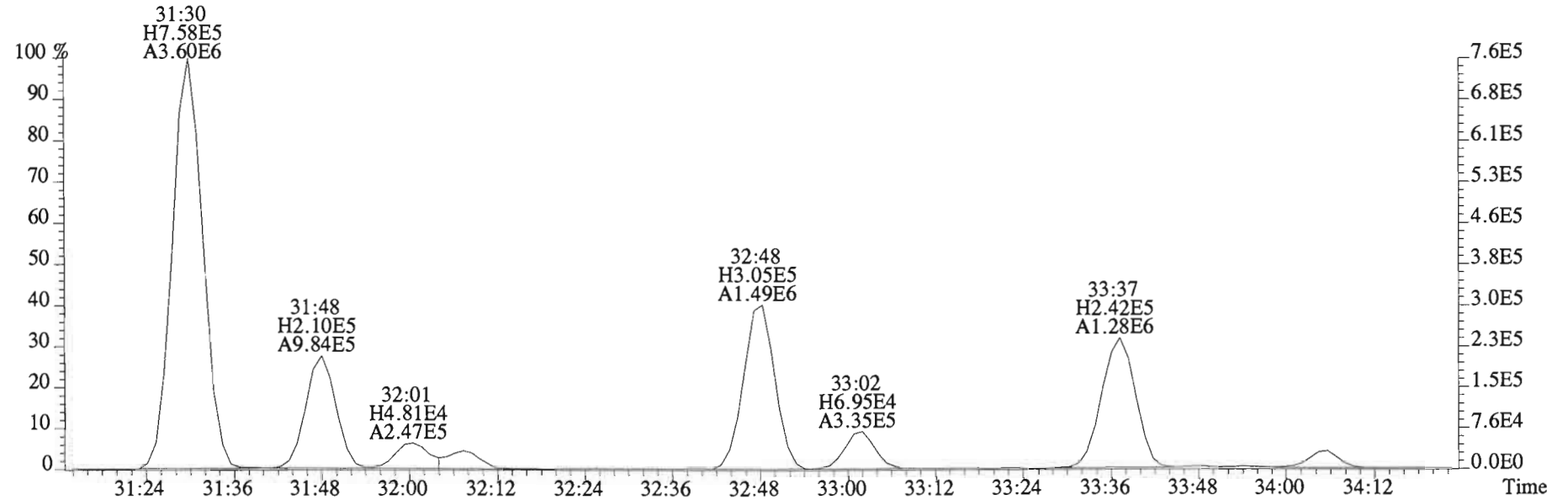
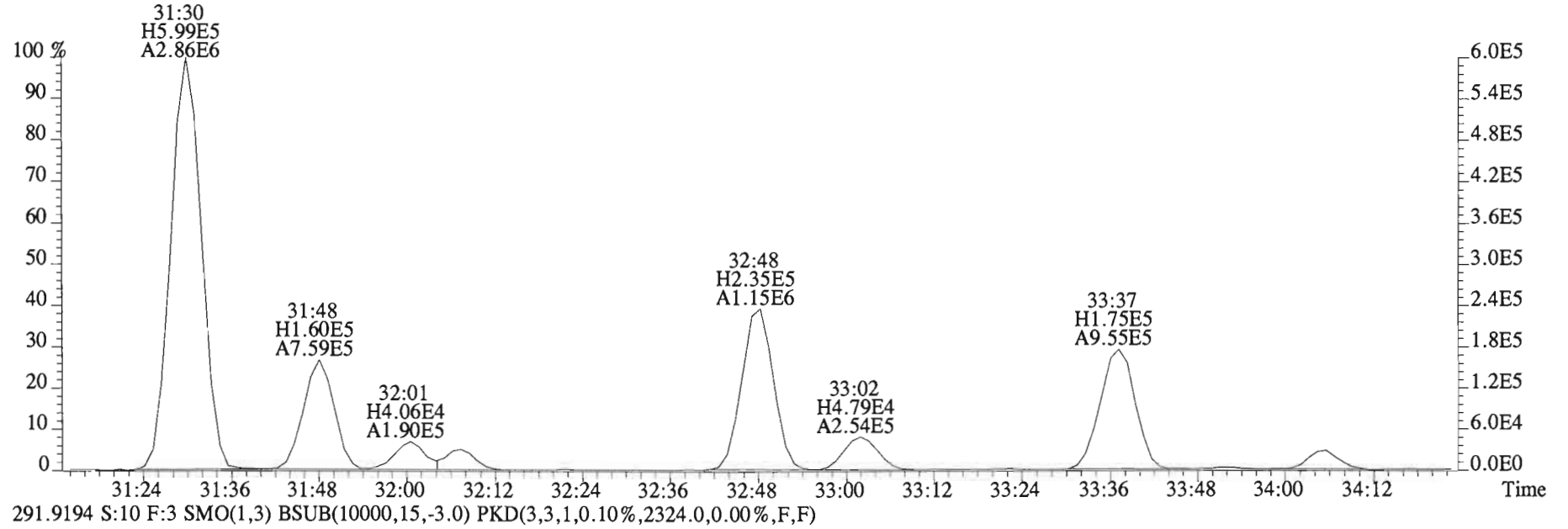
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
289.9224 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2084.0,0.00%,F,F)



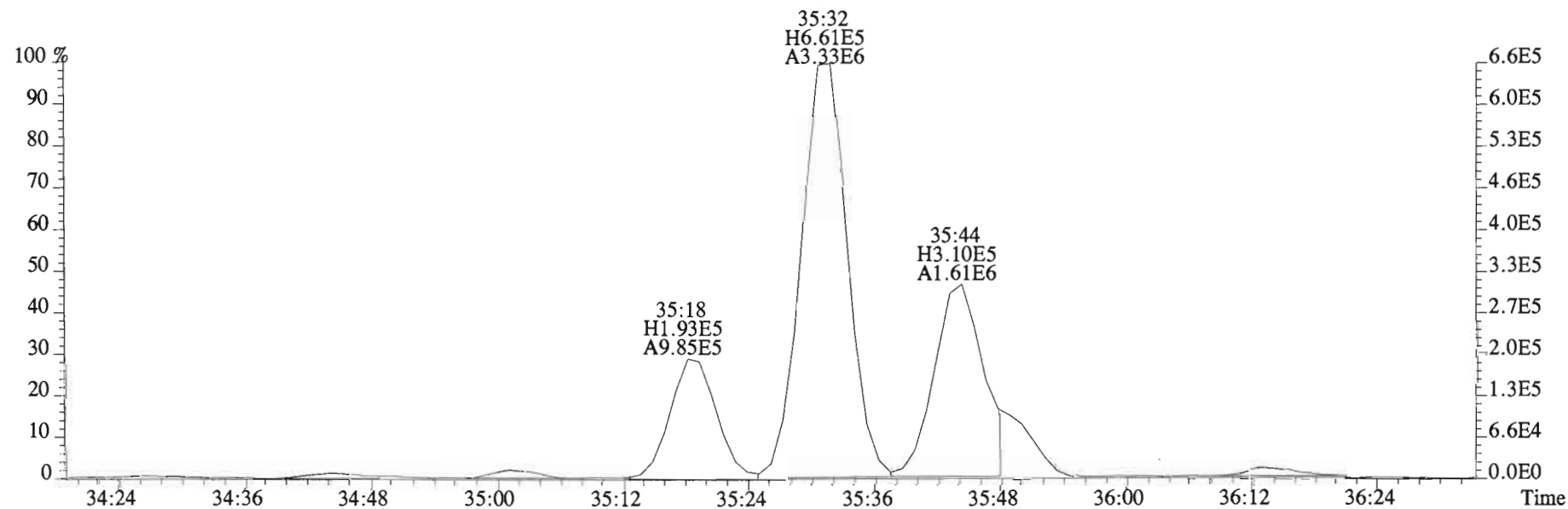
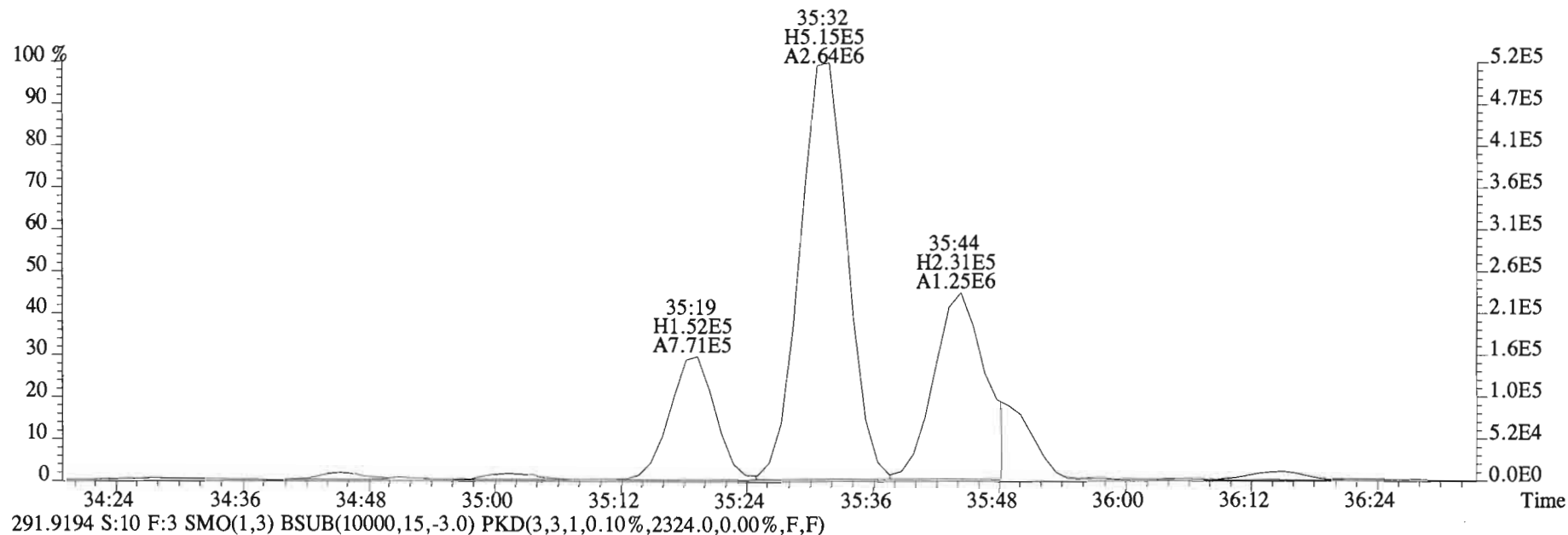
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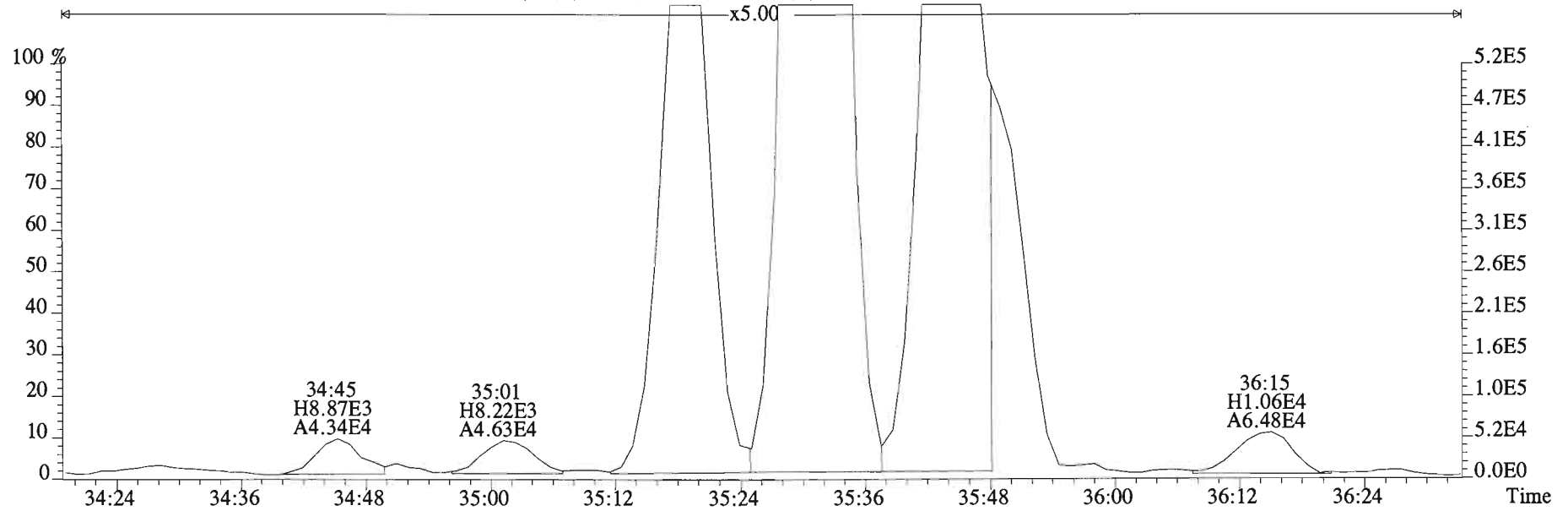
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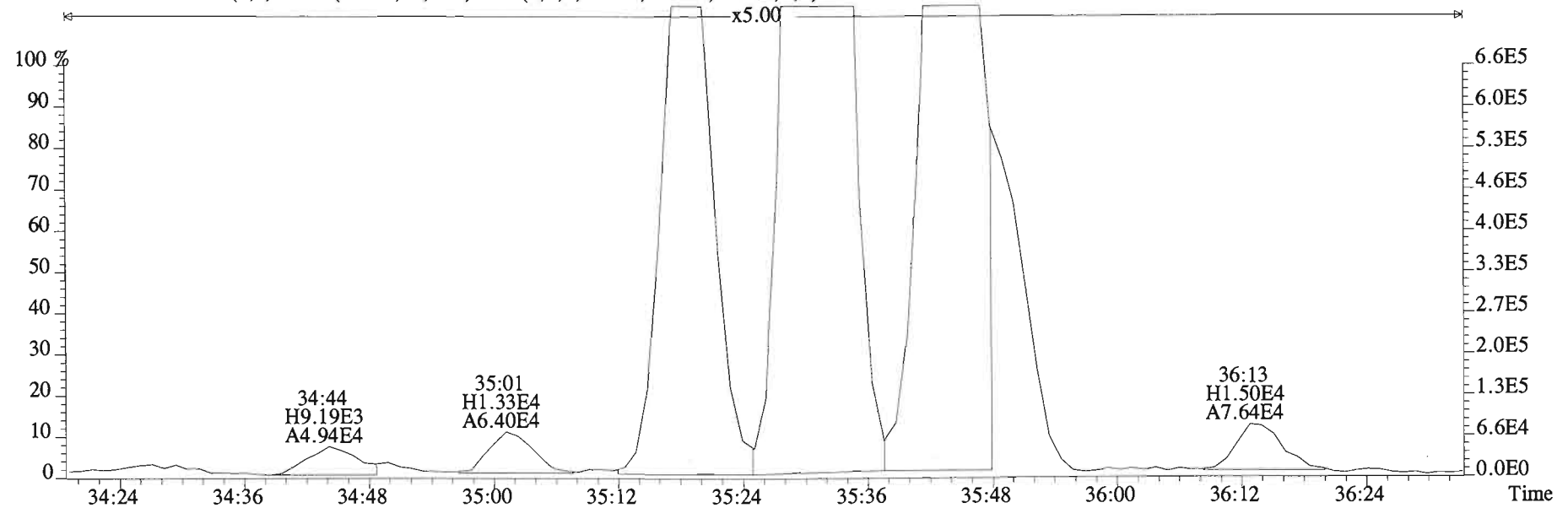
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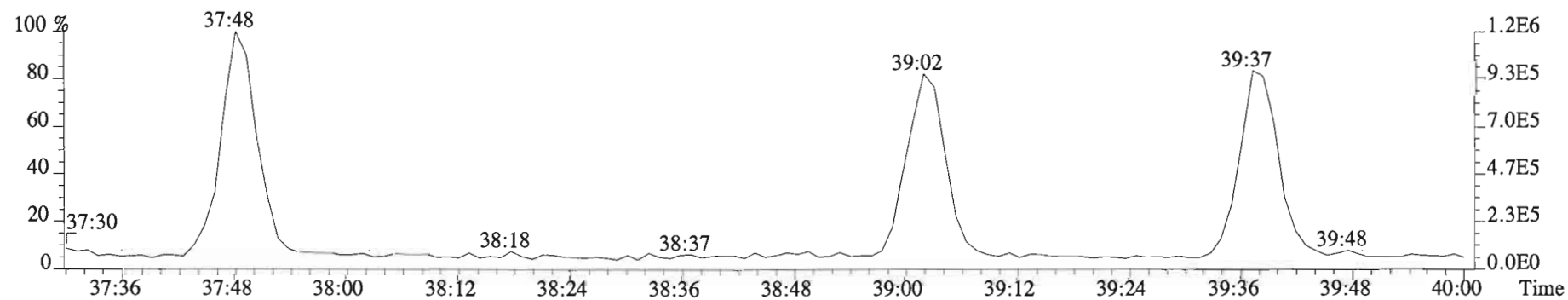
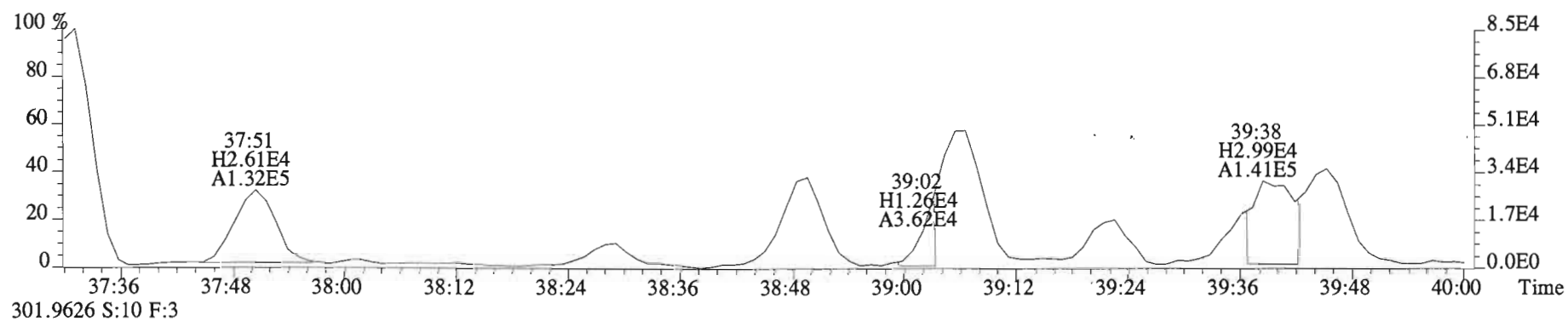
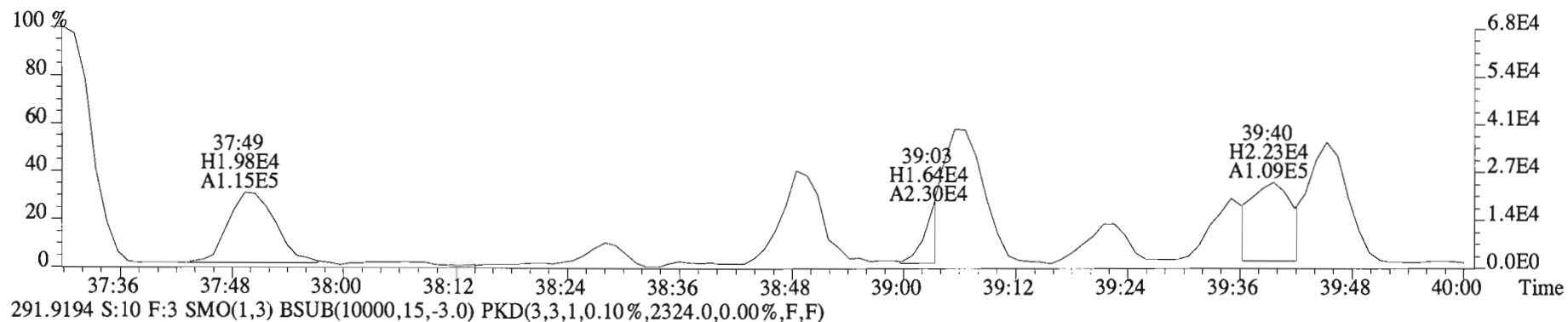
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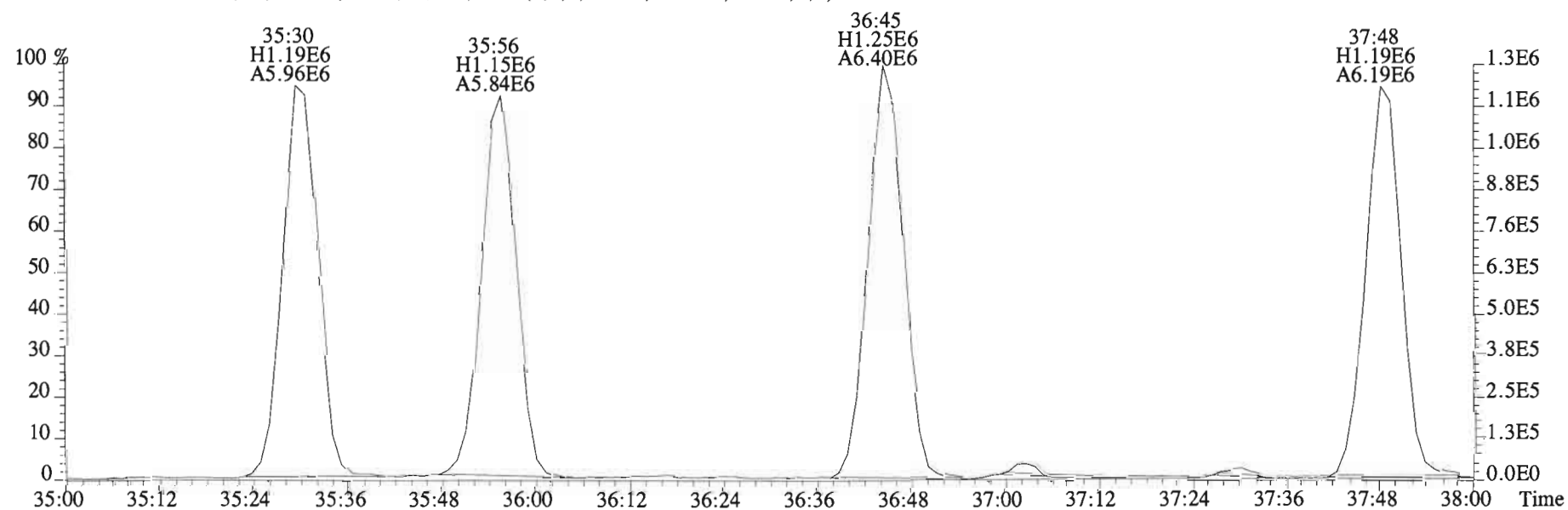
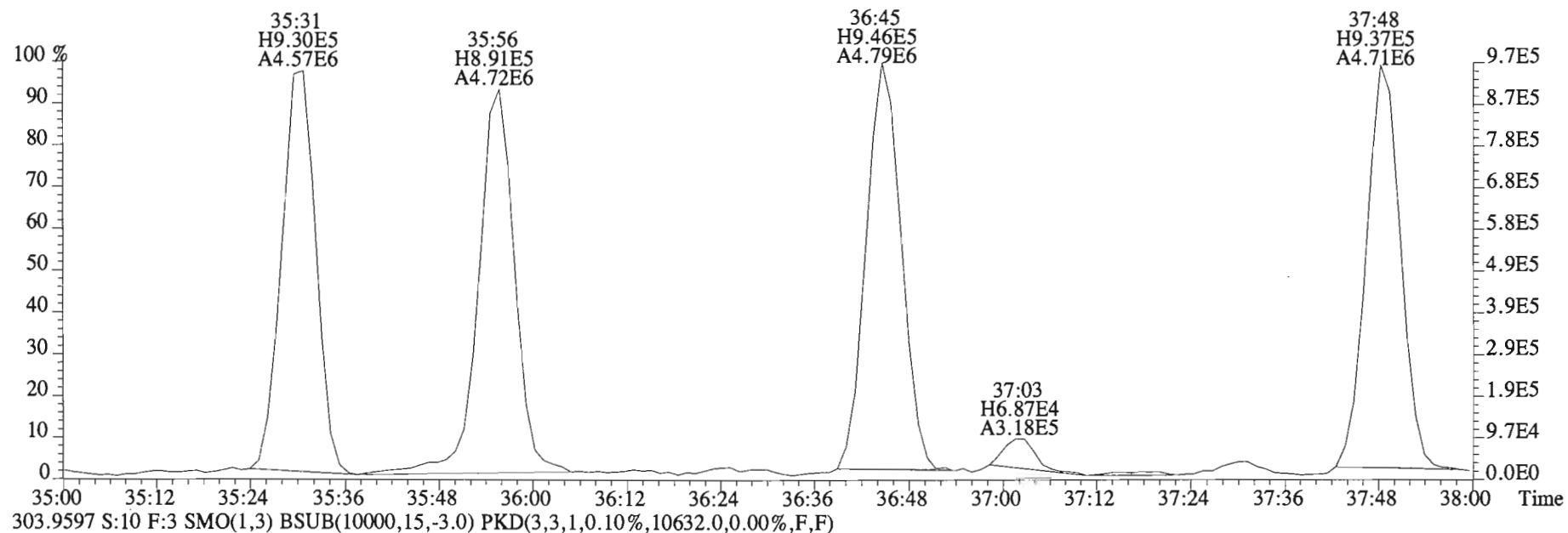
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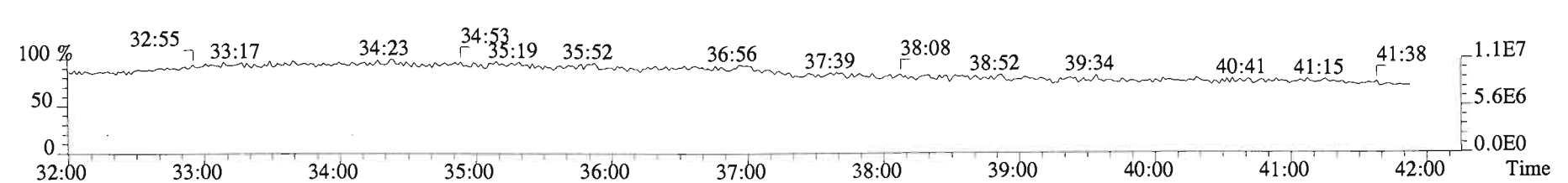
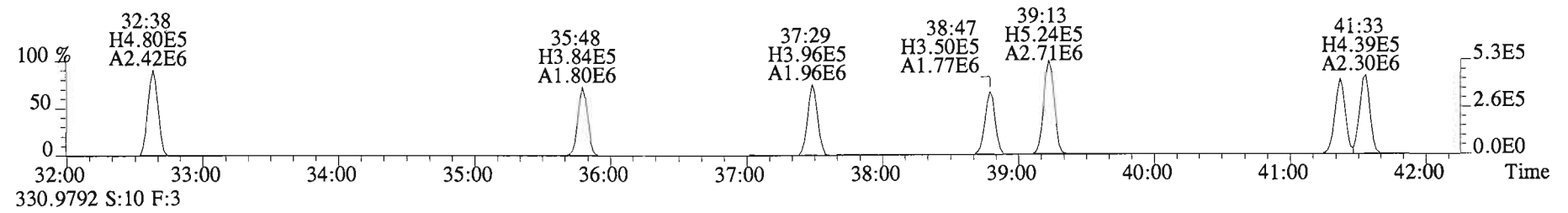
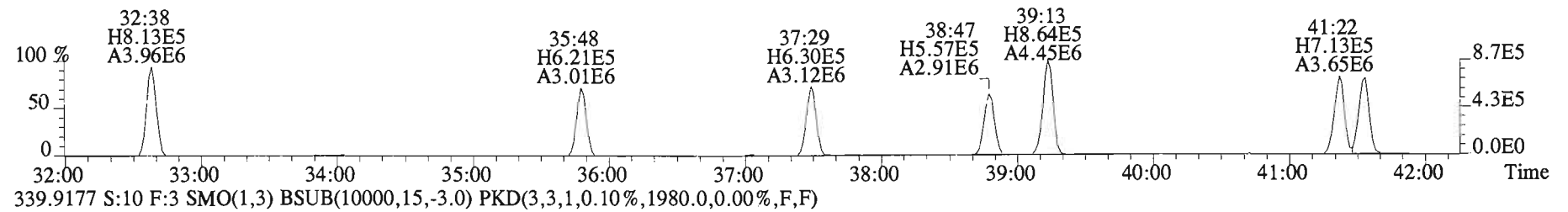
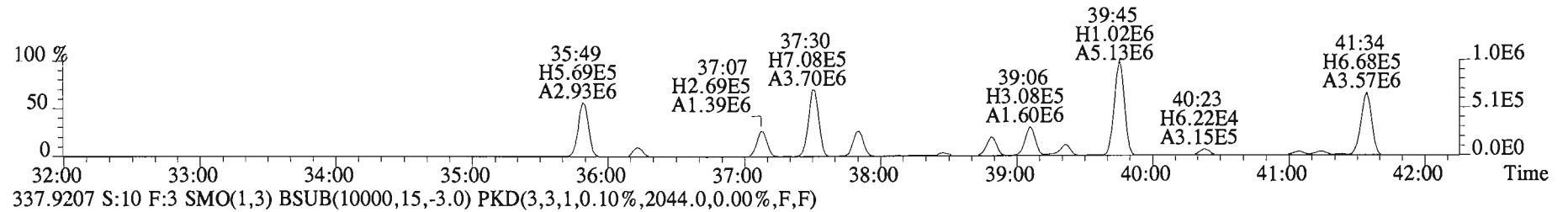
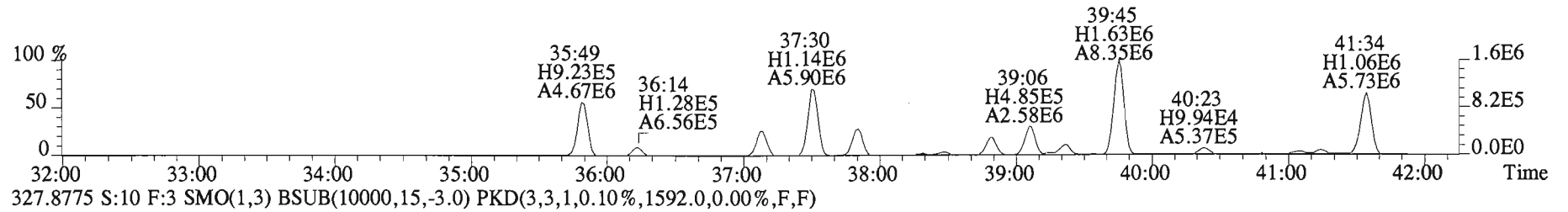
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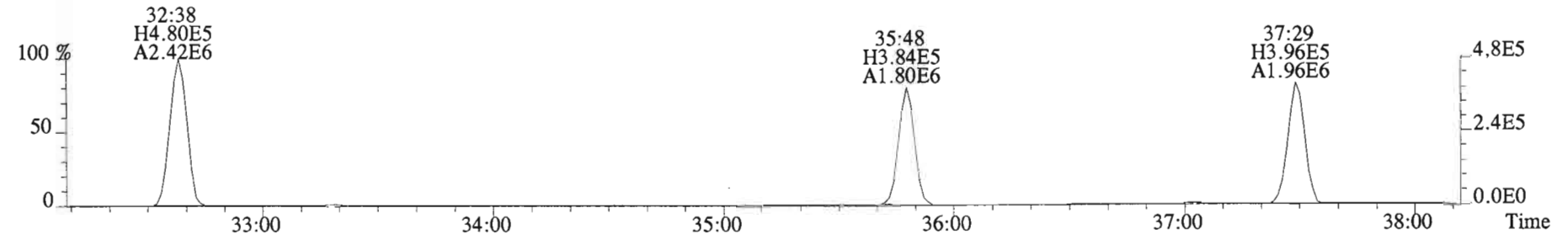
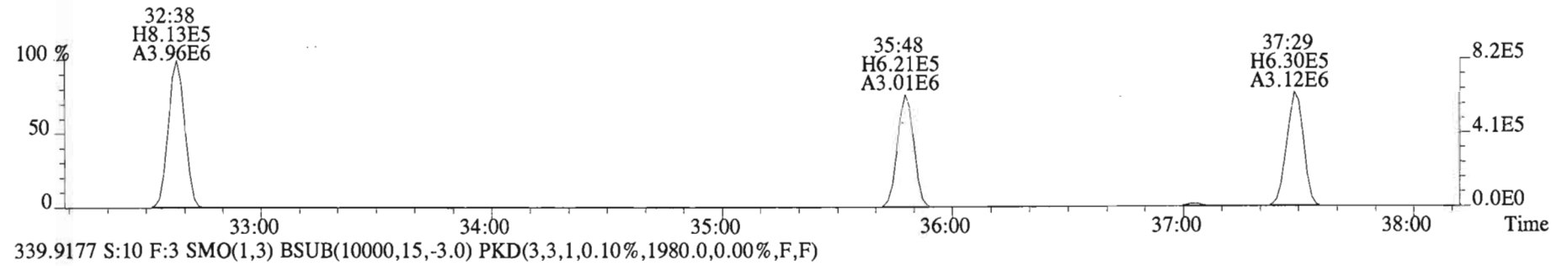
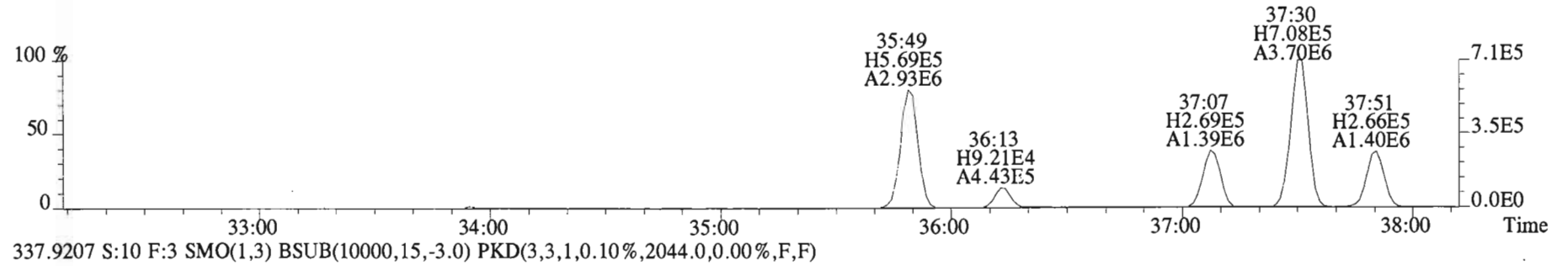
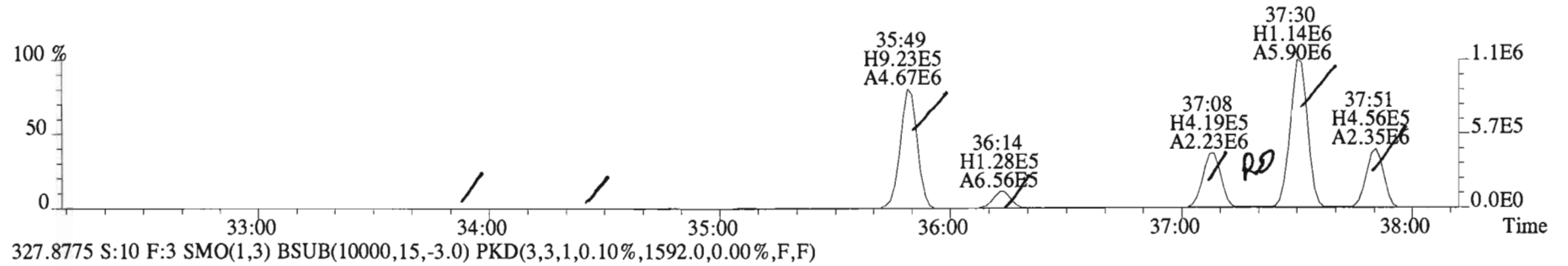
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
301.9626 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,20640.0,0.00%,F,F)



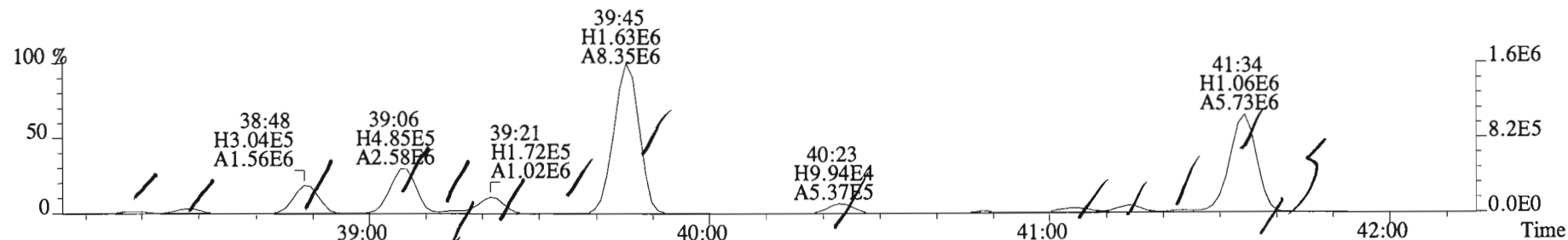
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1992.0,0.00%,F,F)



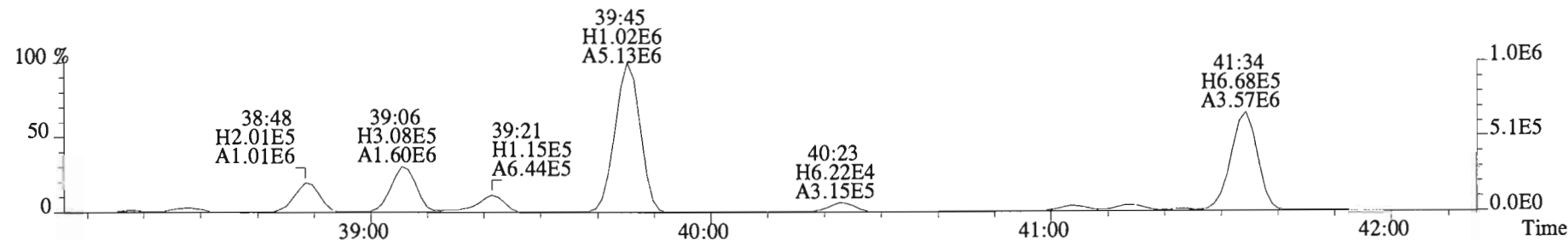
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 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
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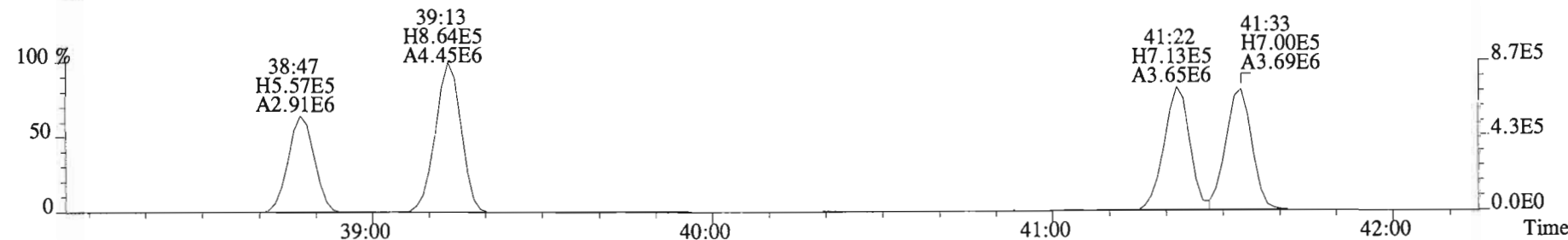
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
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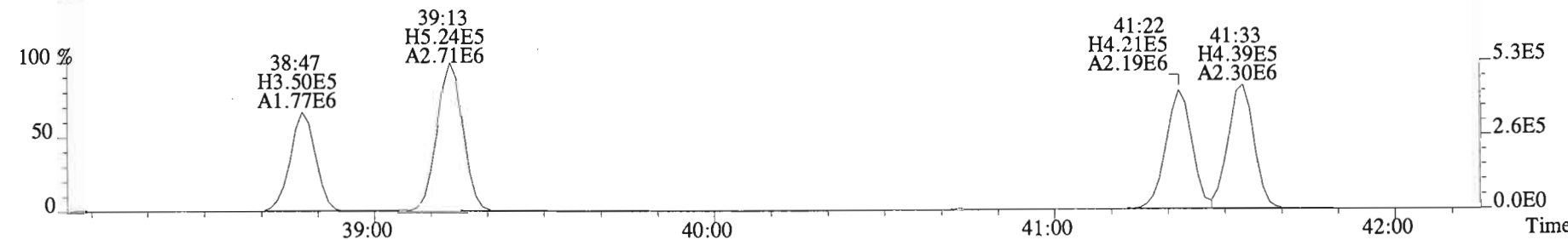
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1592.0,0.00%,F,F)



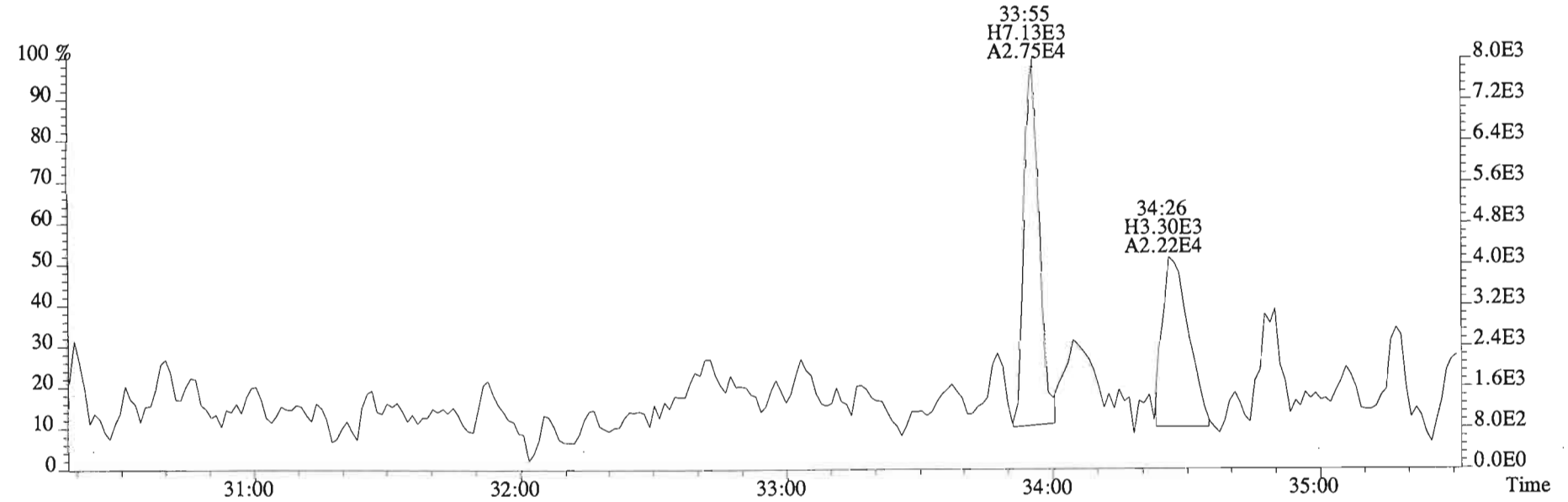
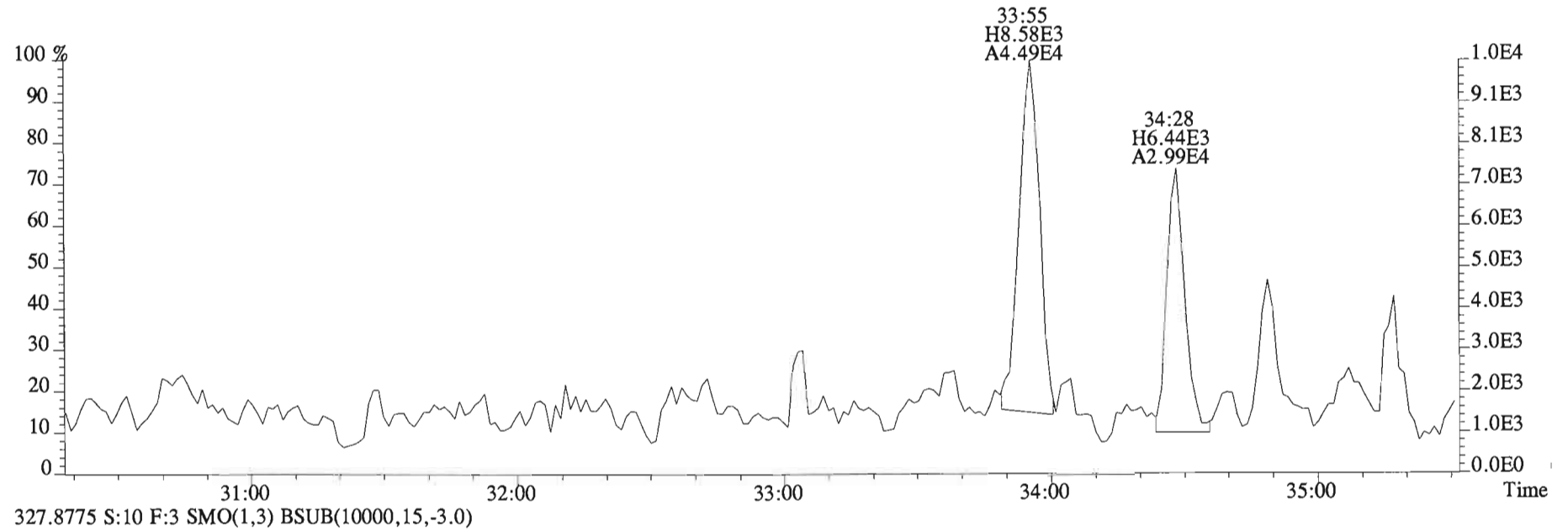
337.9207 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2044.0,0.00%,F,F)



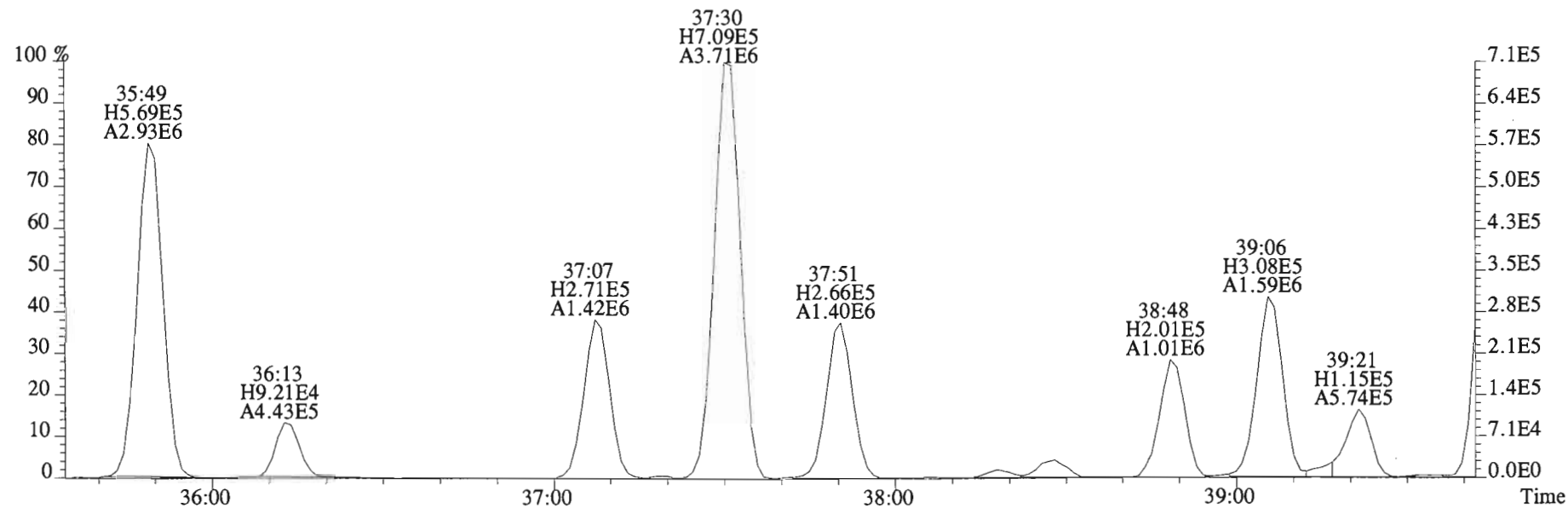
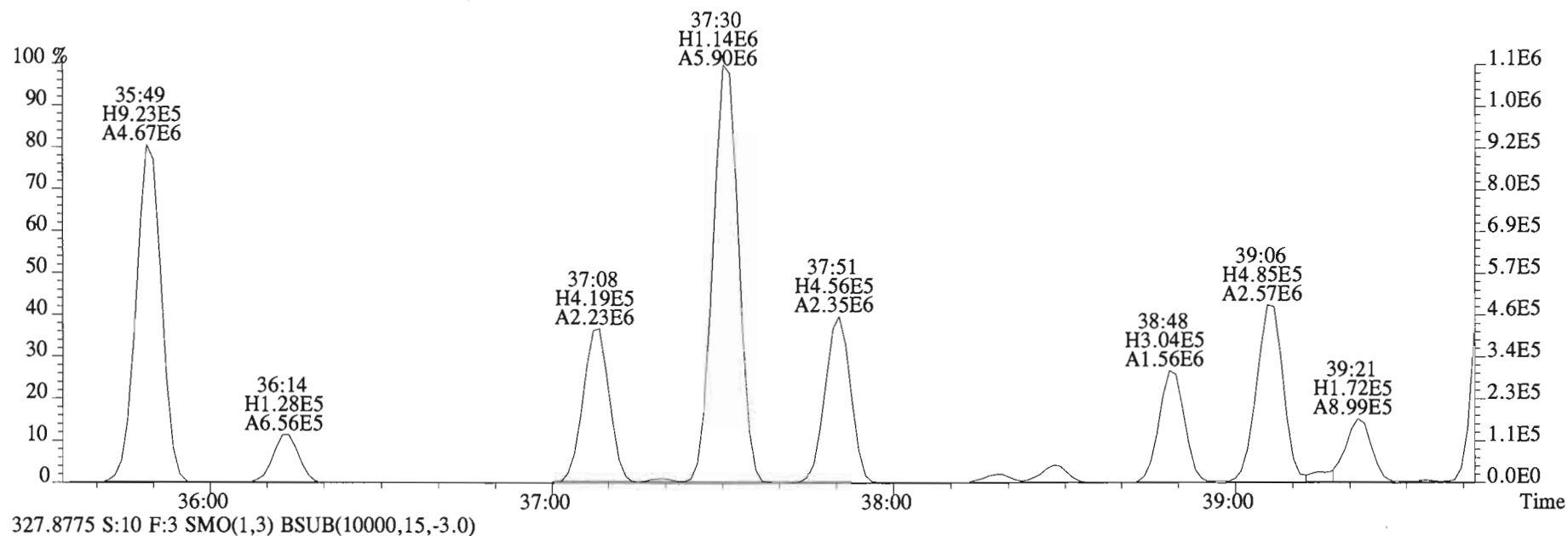
339.9177 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1980.0,0.00%,F,F)



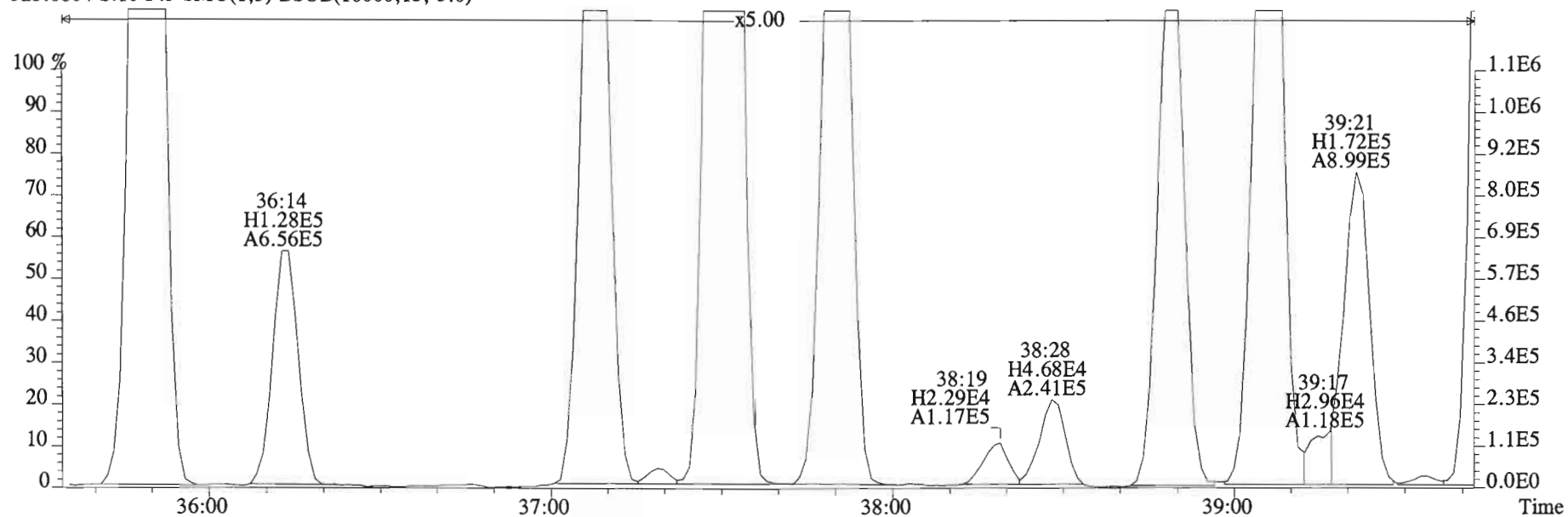
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)



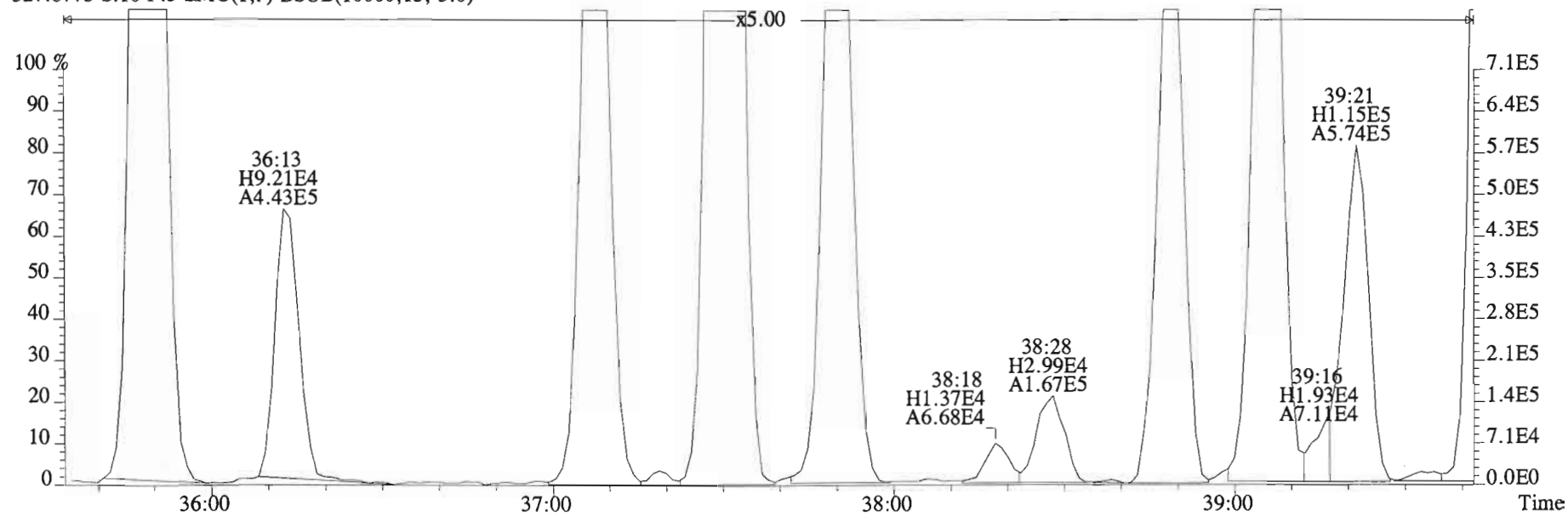
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 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
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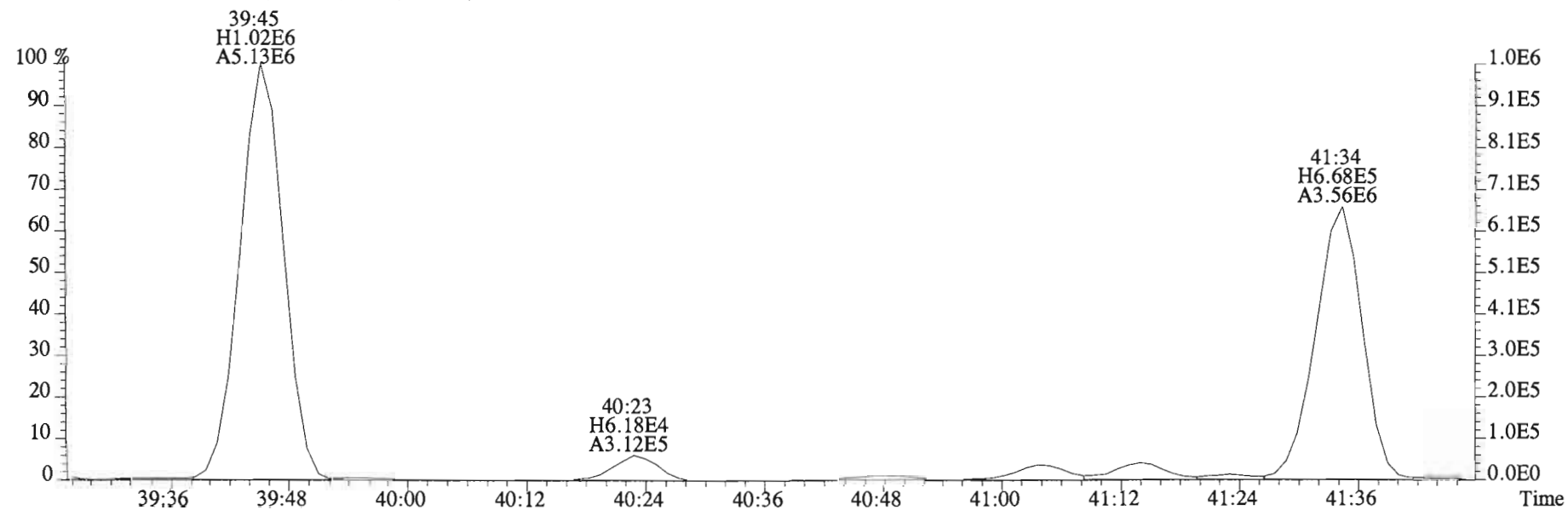
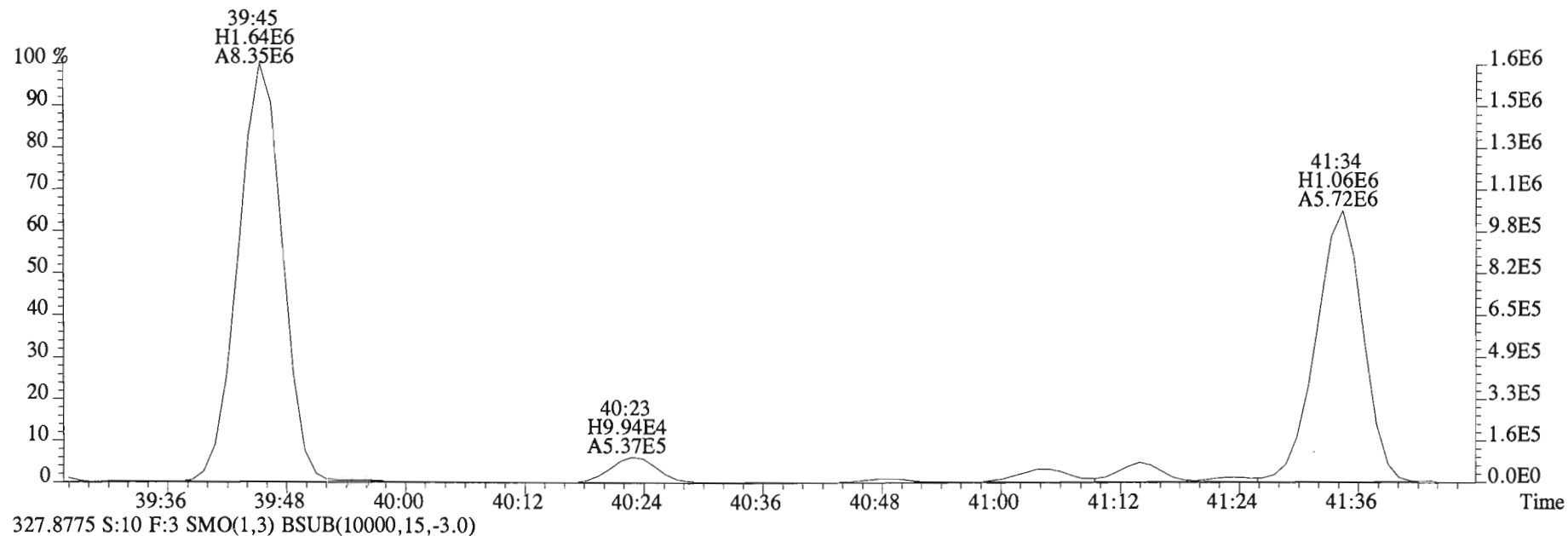
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Sample#10 File Text: Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)



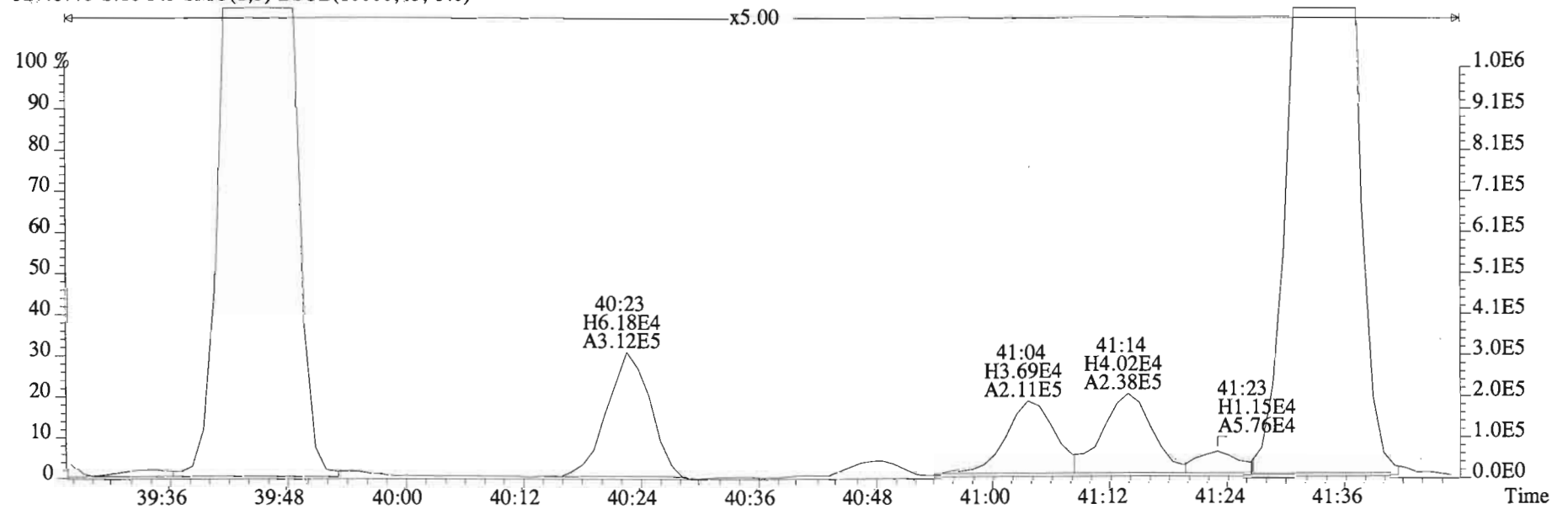
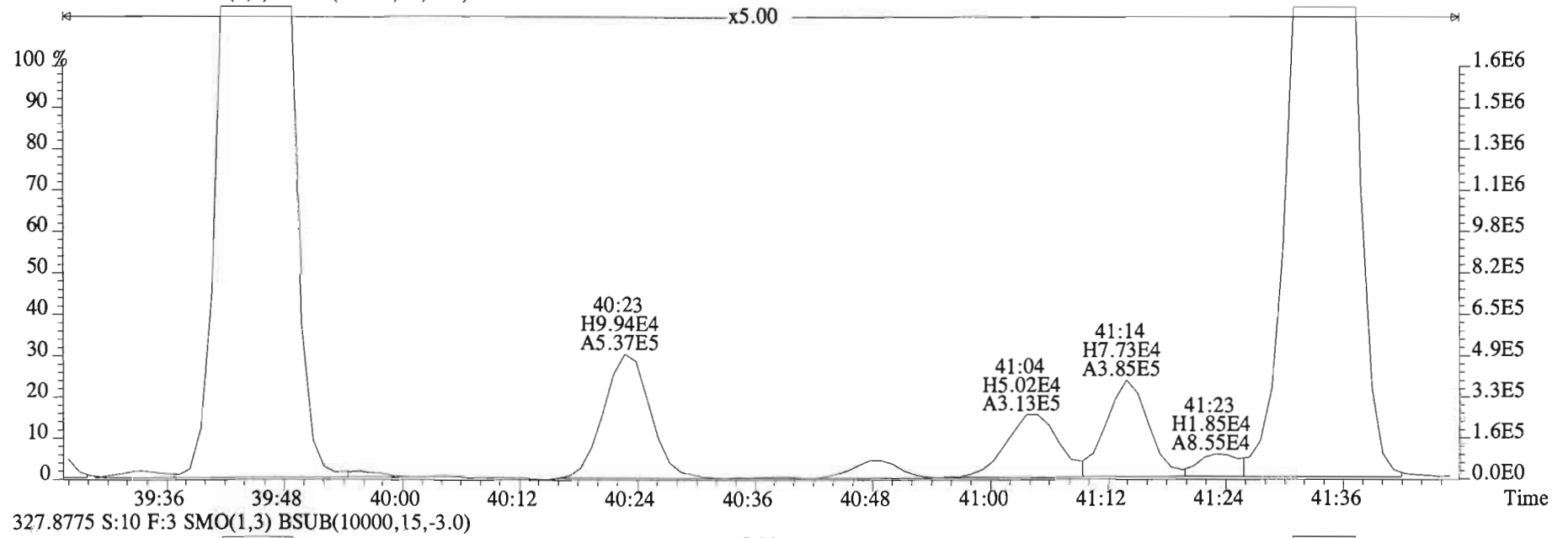
327.8775 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)



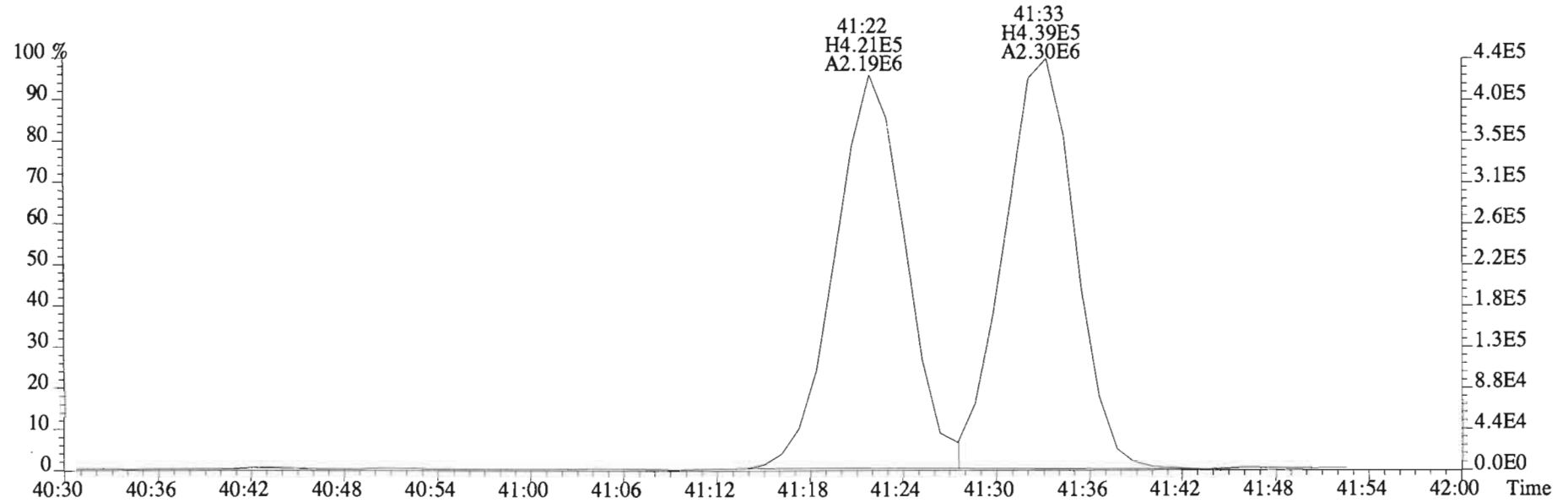
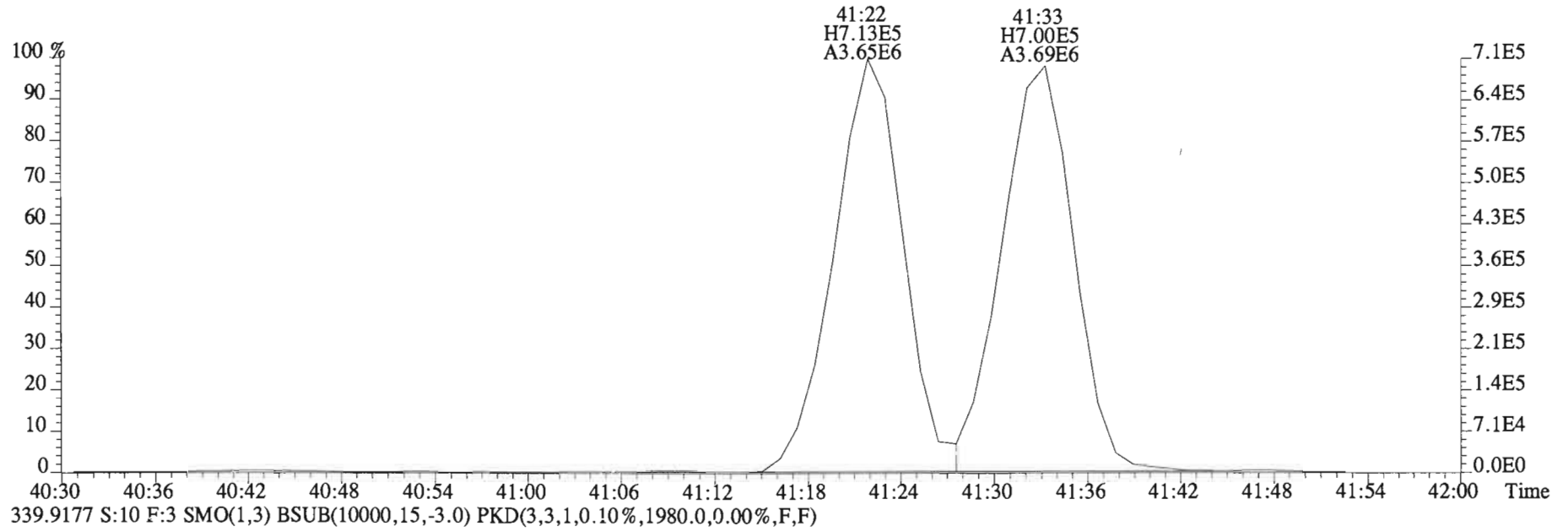
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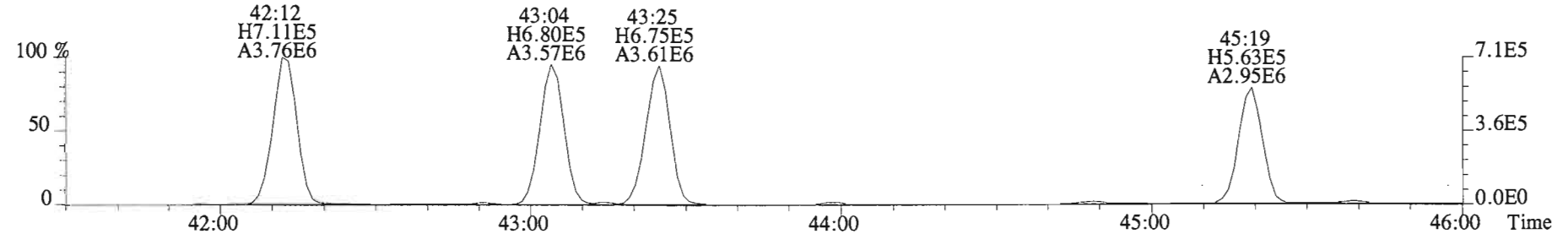
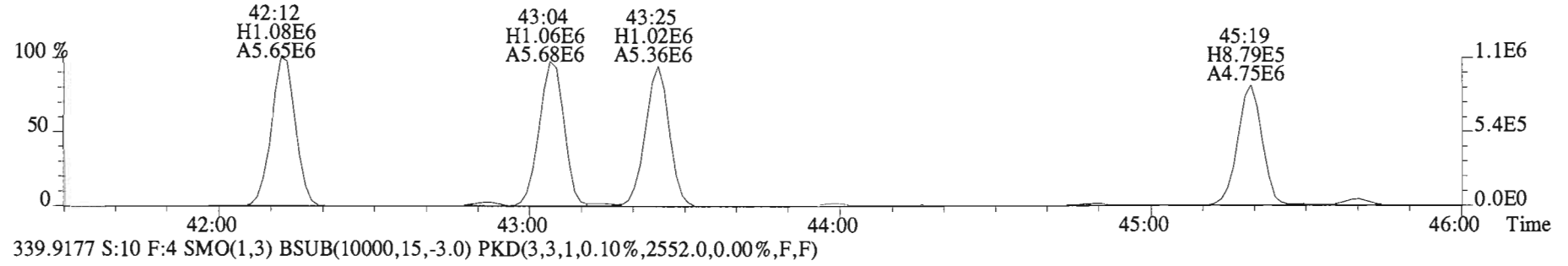
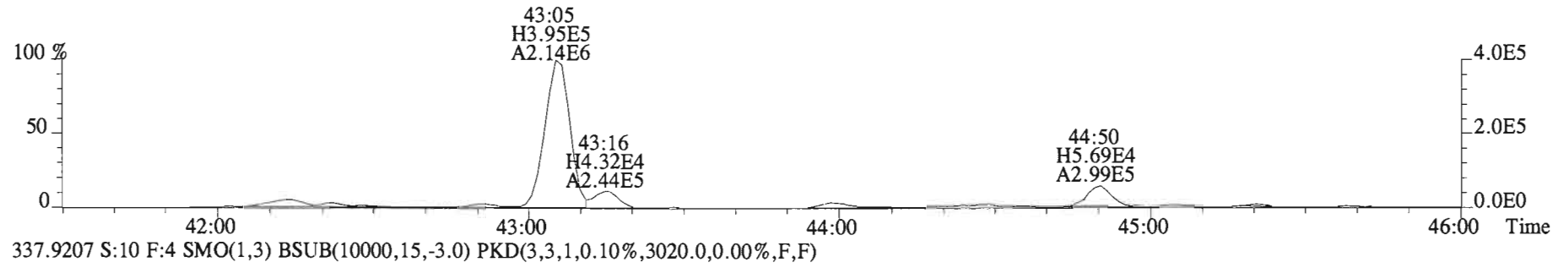
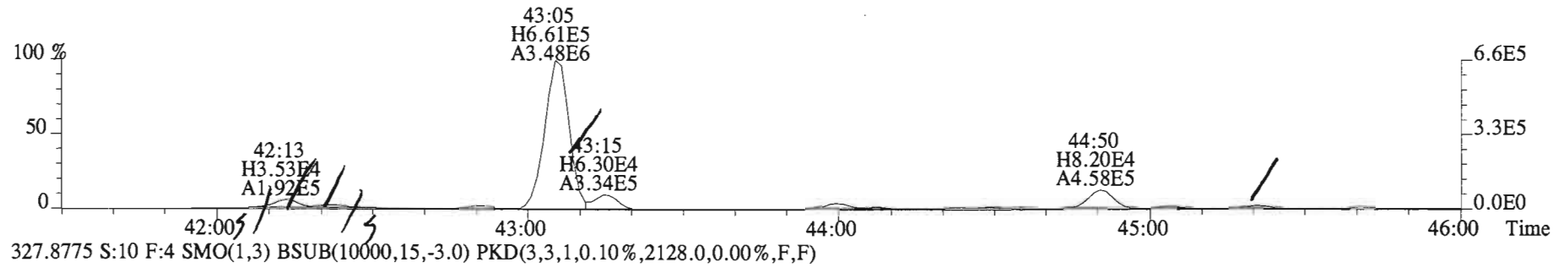
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325.8804 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0)



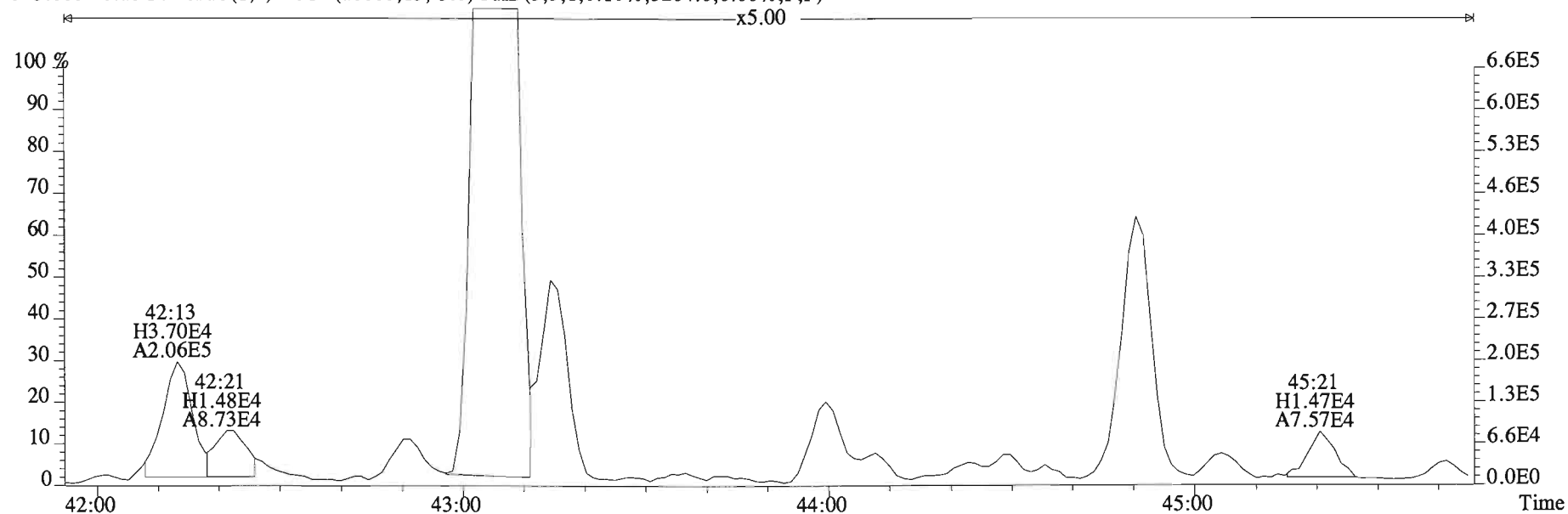
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
337.9207 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2044.0,0.00%,F,F)



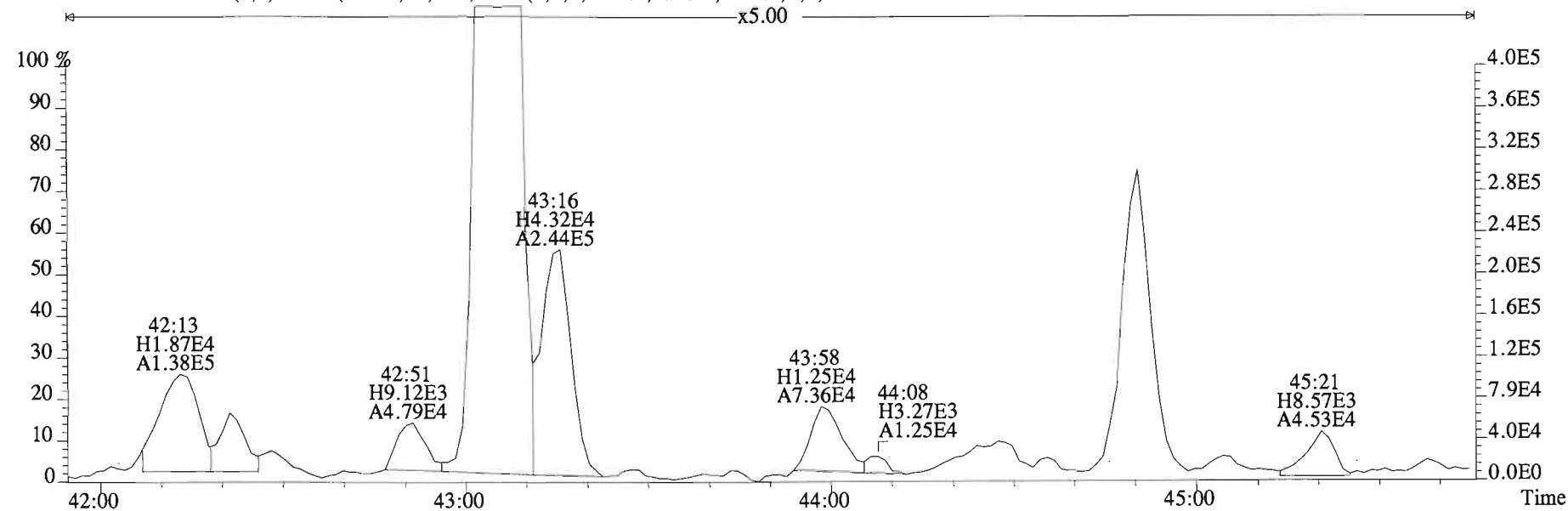
File:150219E2 #1-555 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
325.8804 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,3204.0,0.00%,F,F)



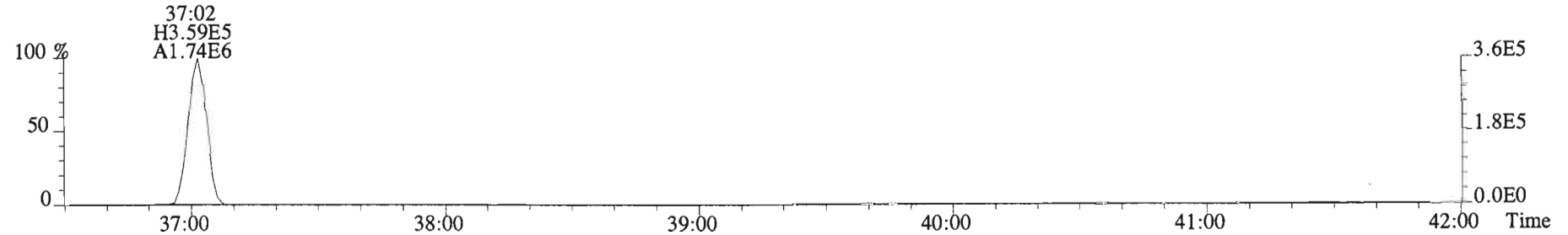
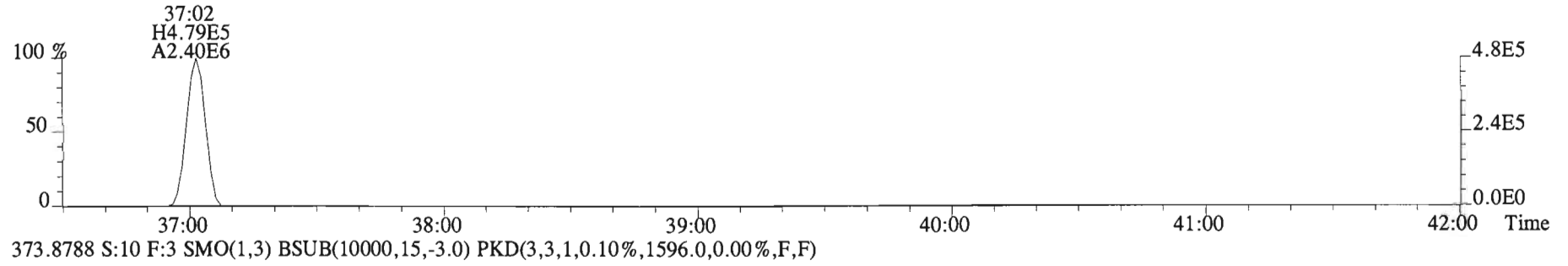
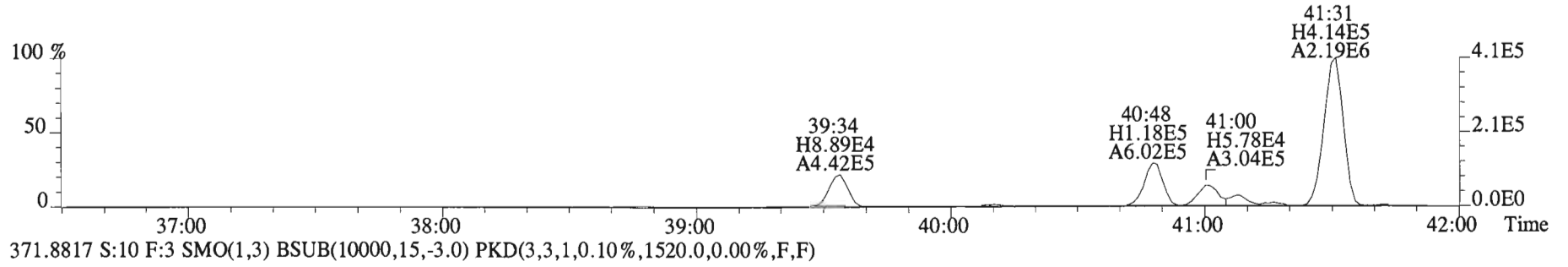
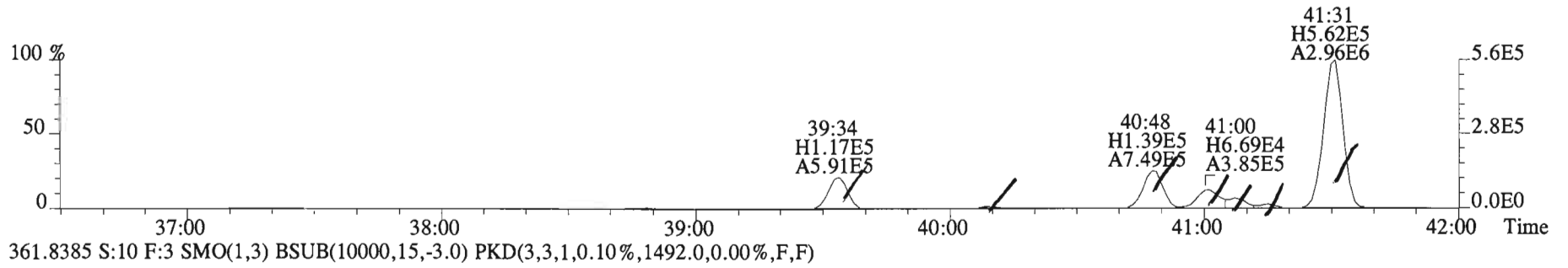
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
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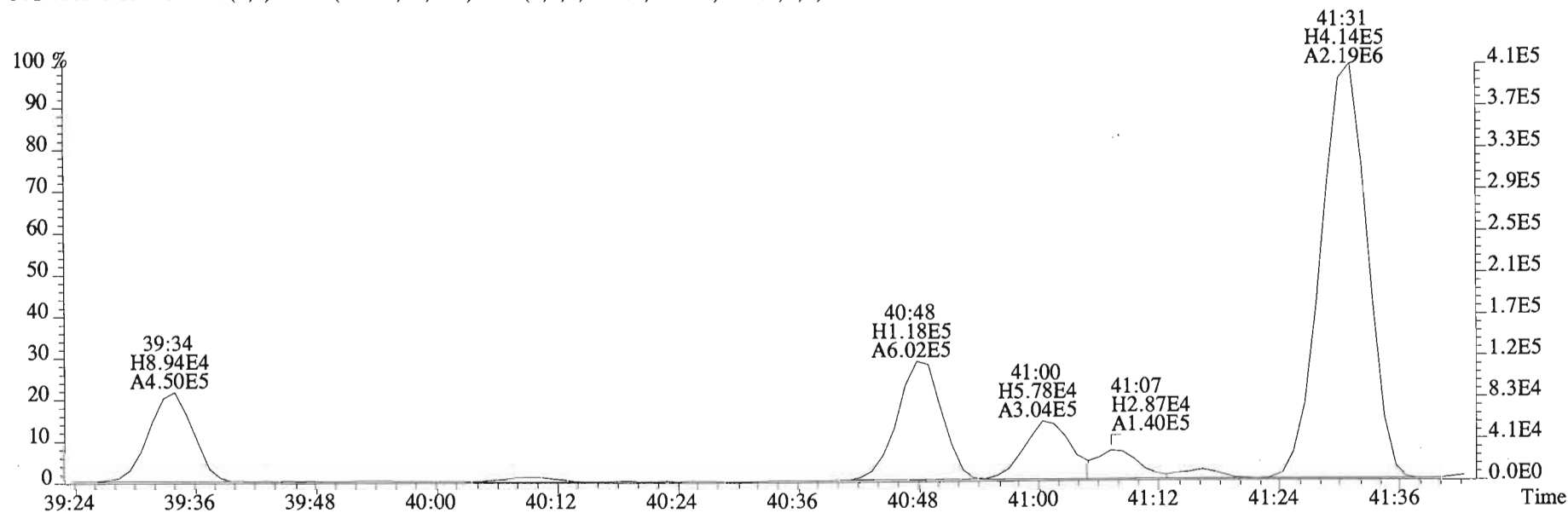
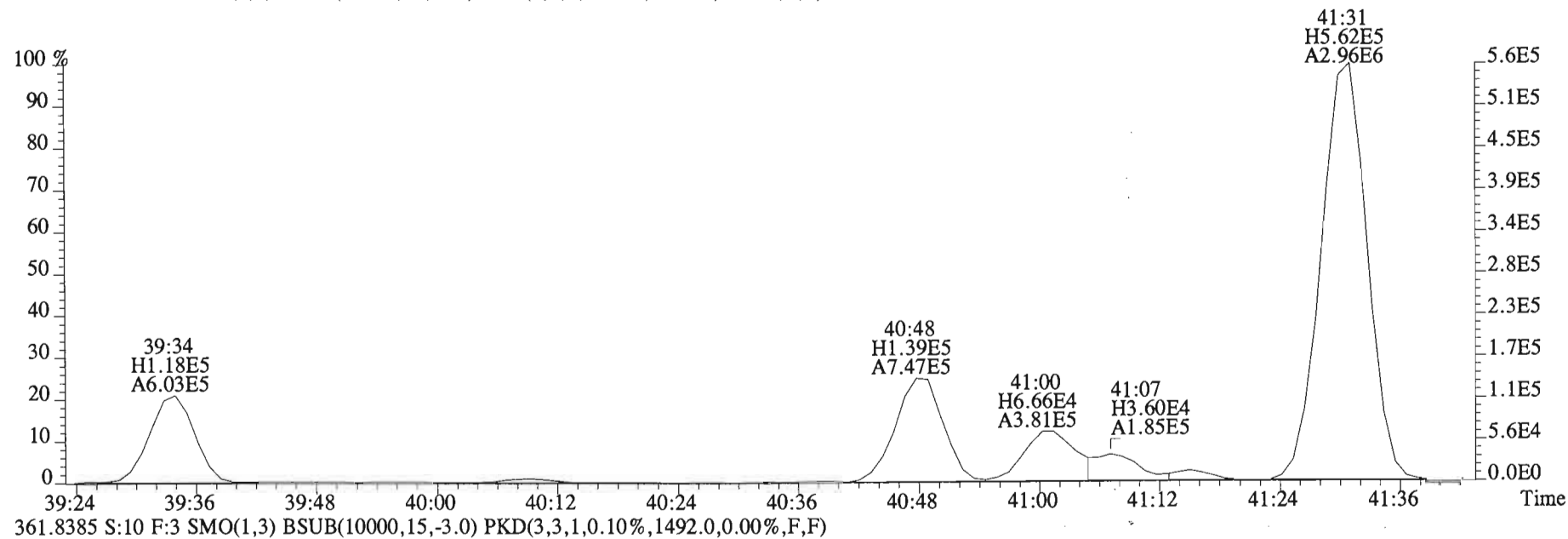
327.8775 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2128.0,0.00%,F,F)



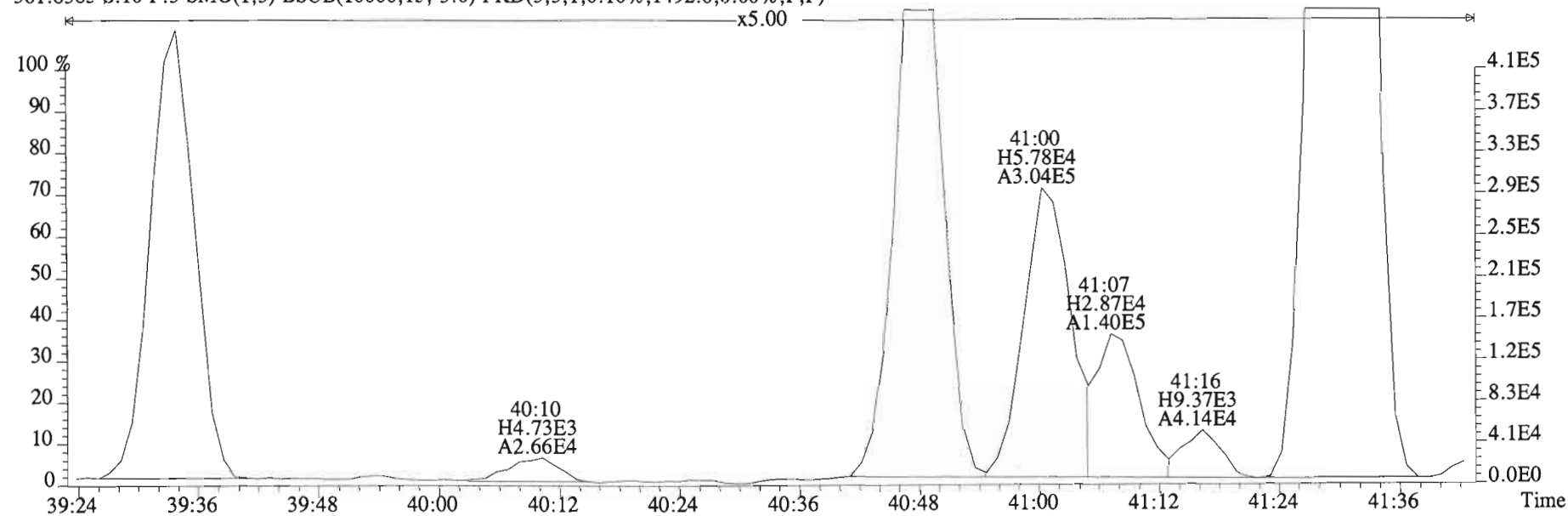
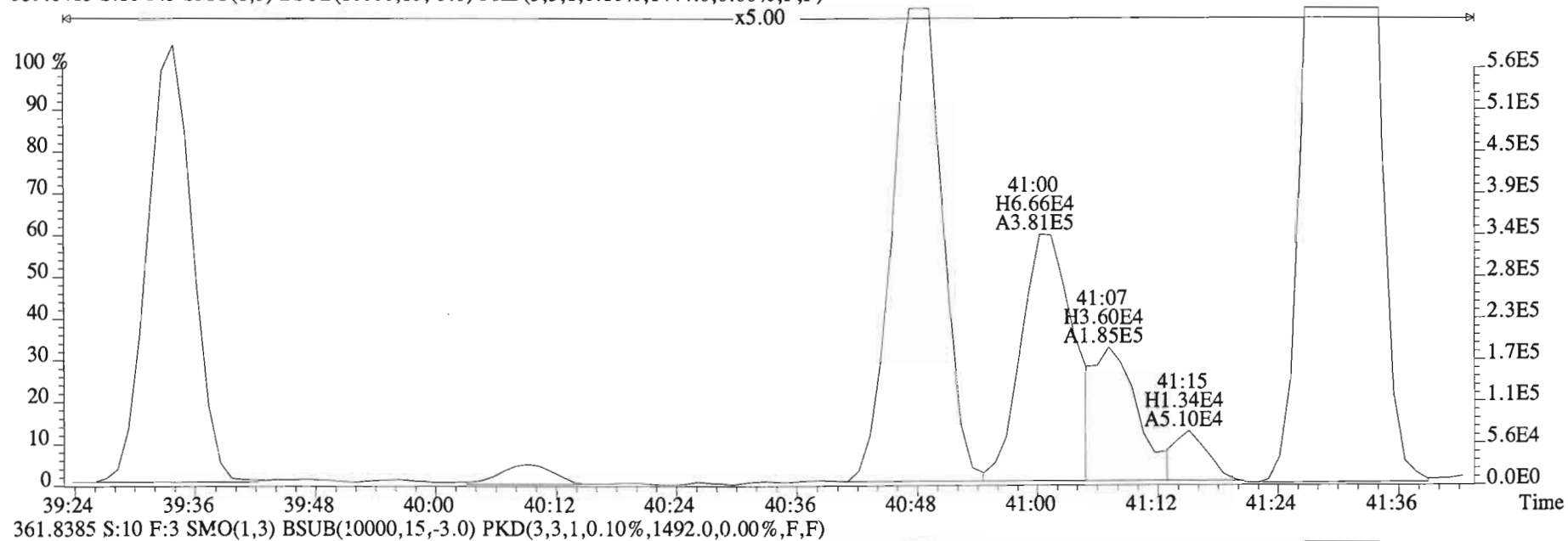
File:150219E2 #1-758 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
359.8415 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1444.0,0.00%,F,F)



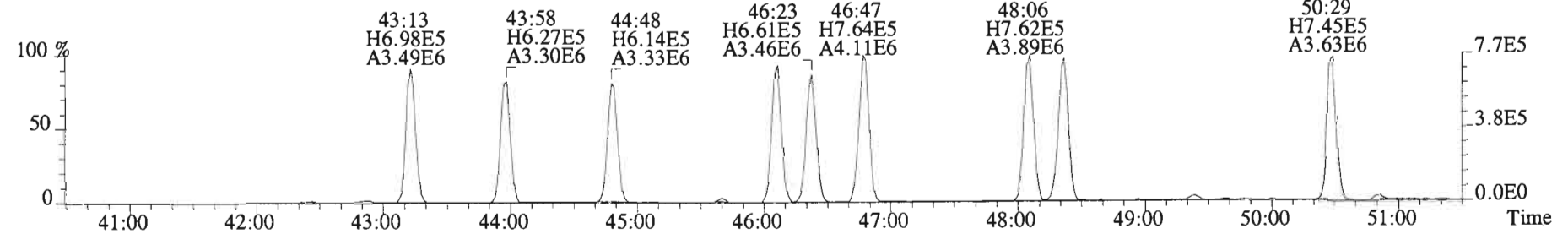
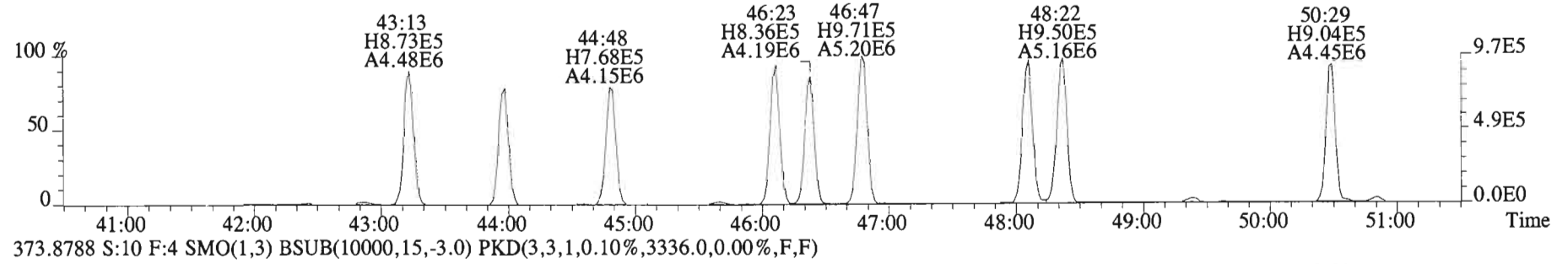
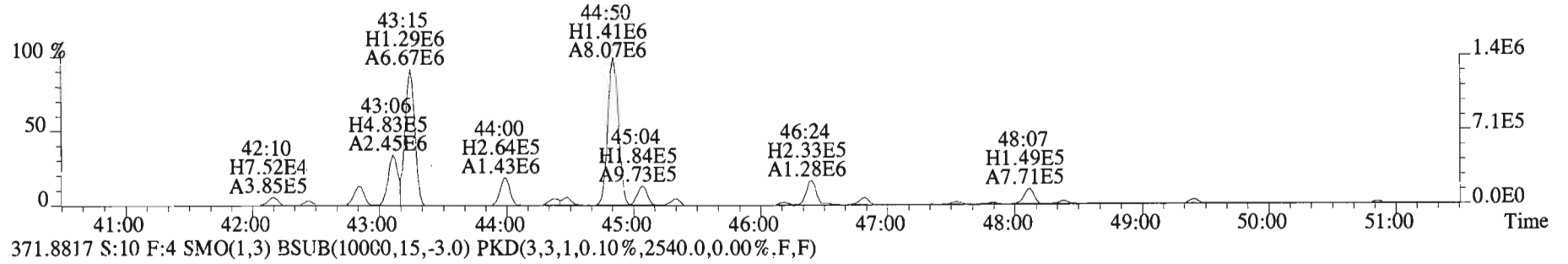
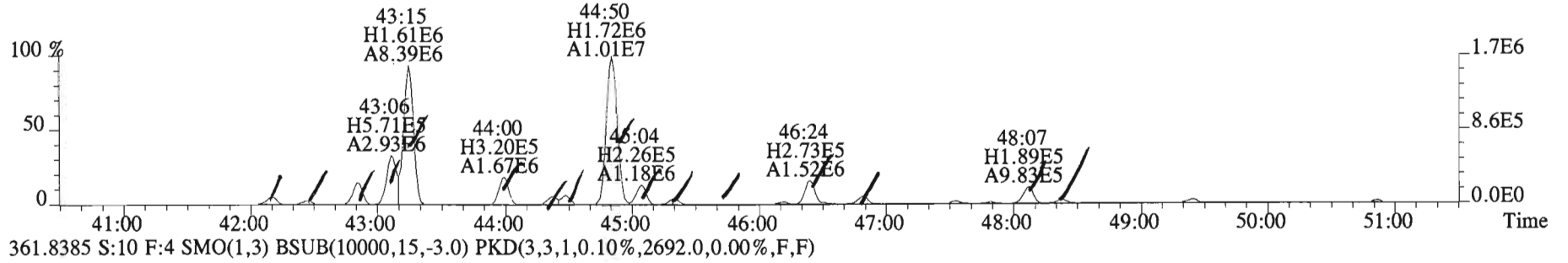
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
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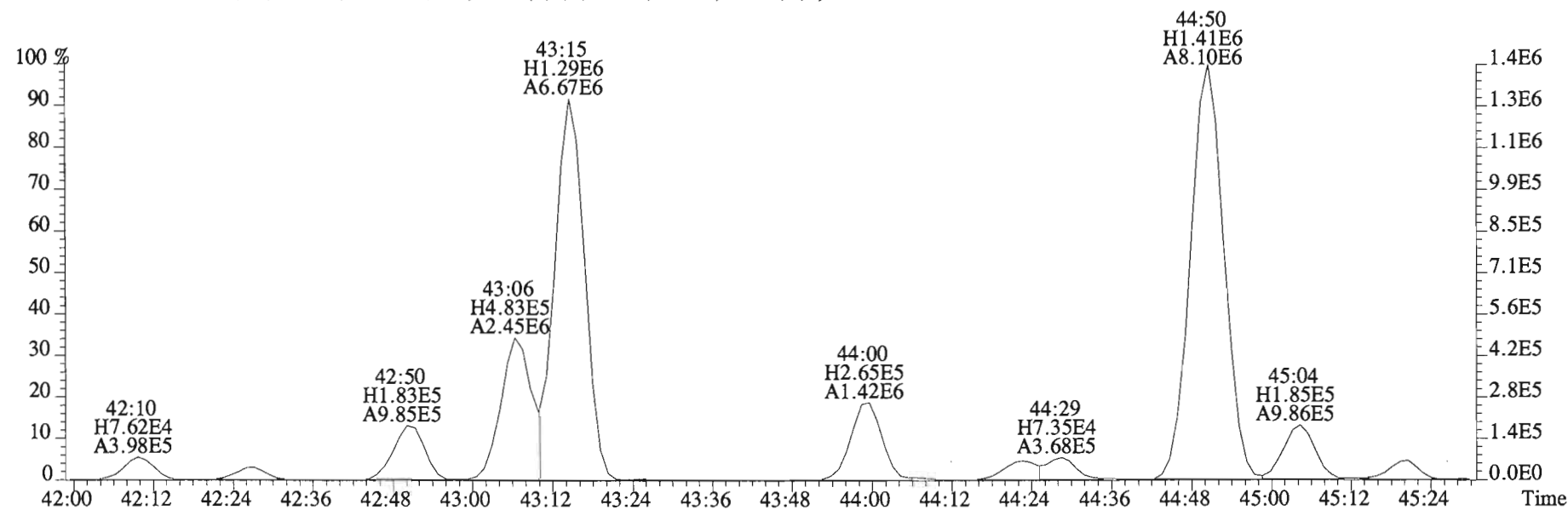
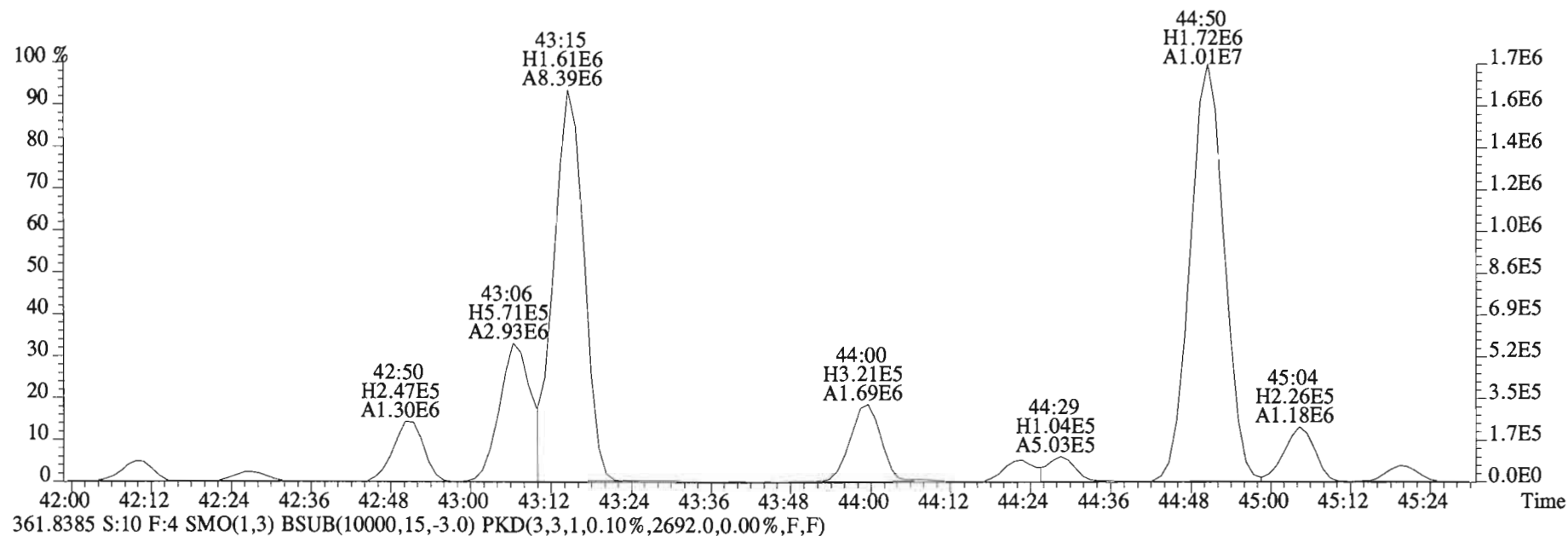
File:150219E2 #1-758 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
 359.8415 S:10 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1444.0,0.00%,F,F)



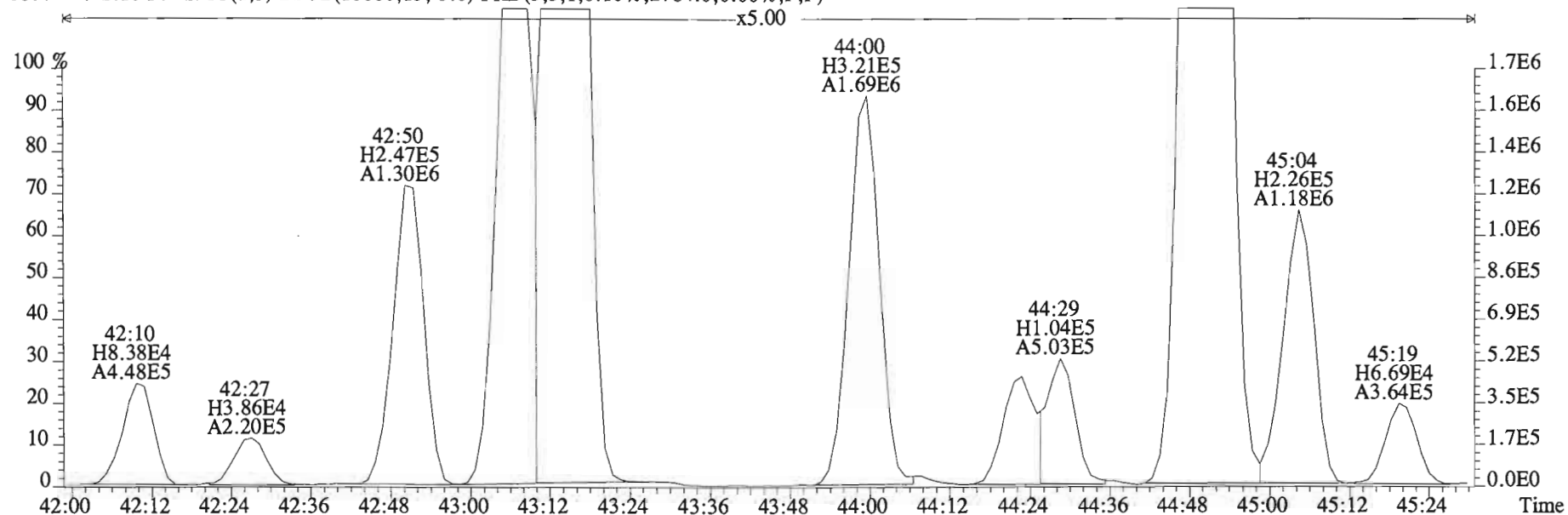
File:150219E2 #1-555 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
359.8415 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2784.0,0.00%,F,F)



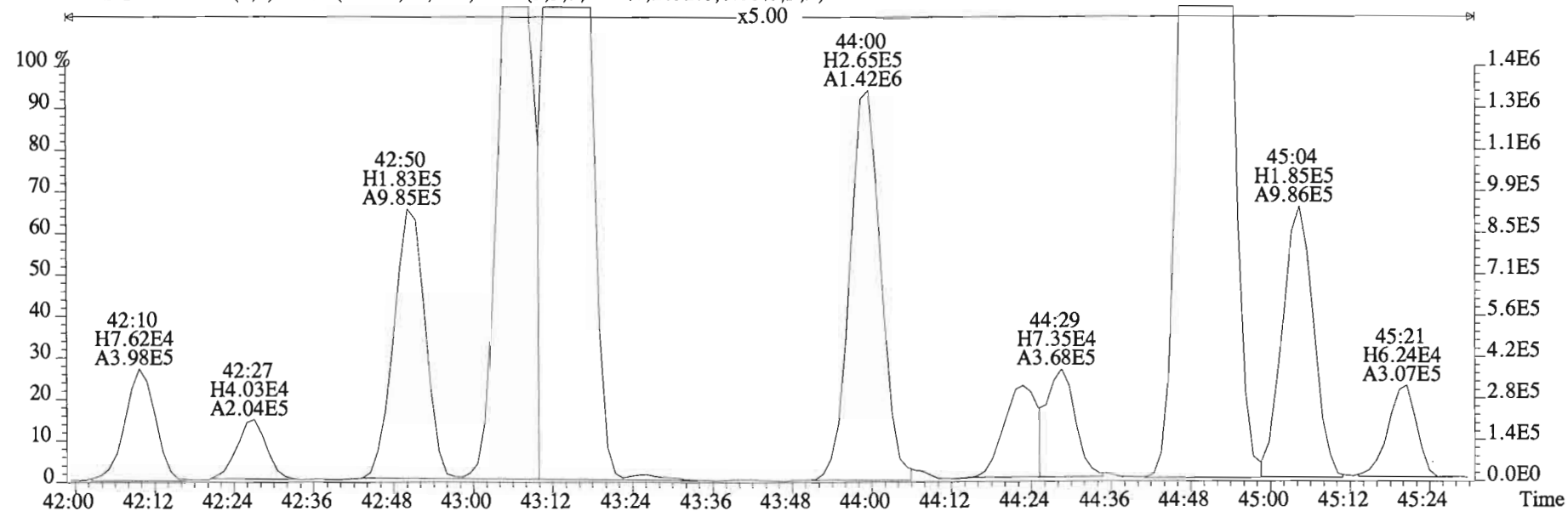
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 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
 359.8415 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2784.0,0.00%,F,F)



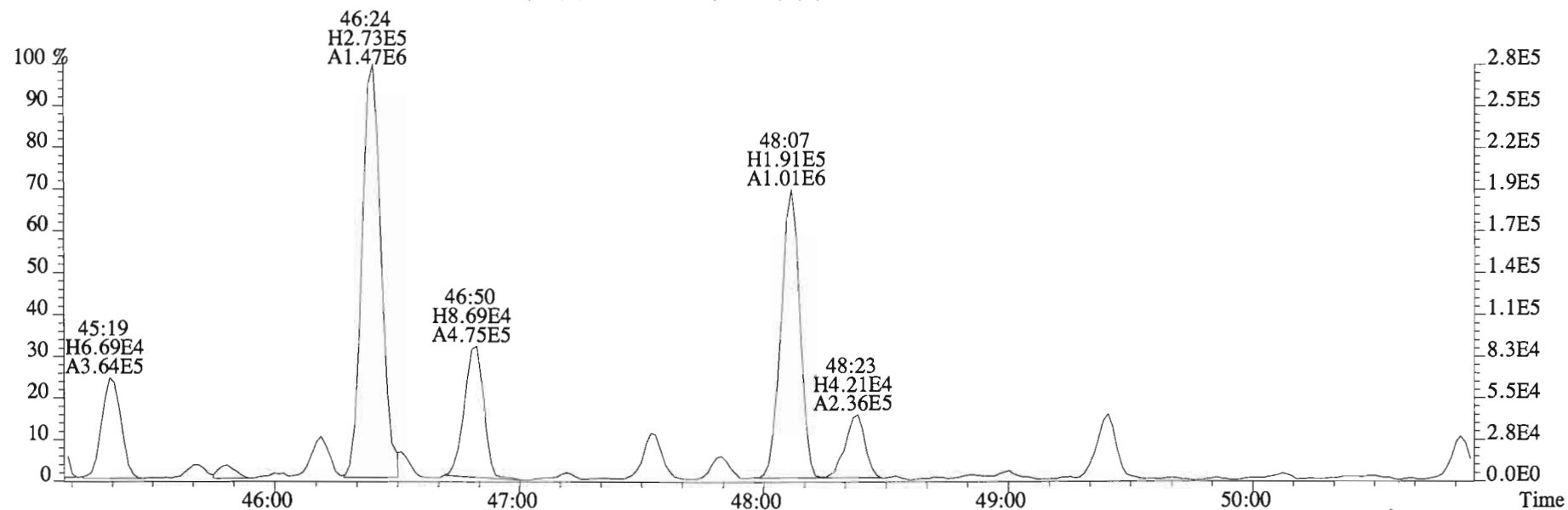
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
359.8415 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2784.0,0.00%,F,F)



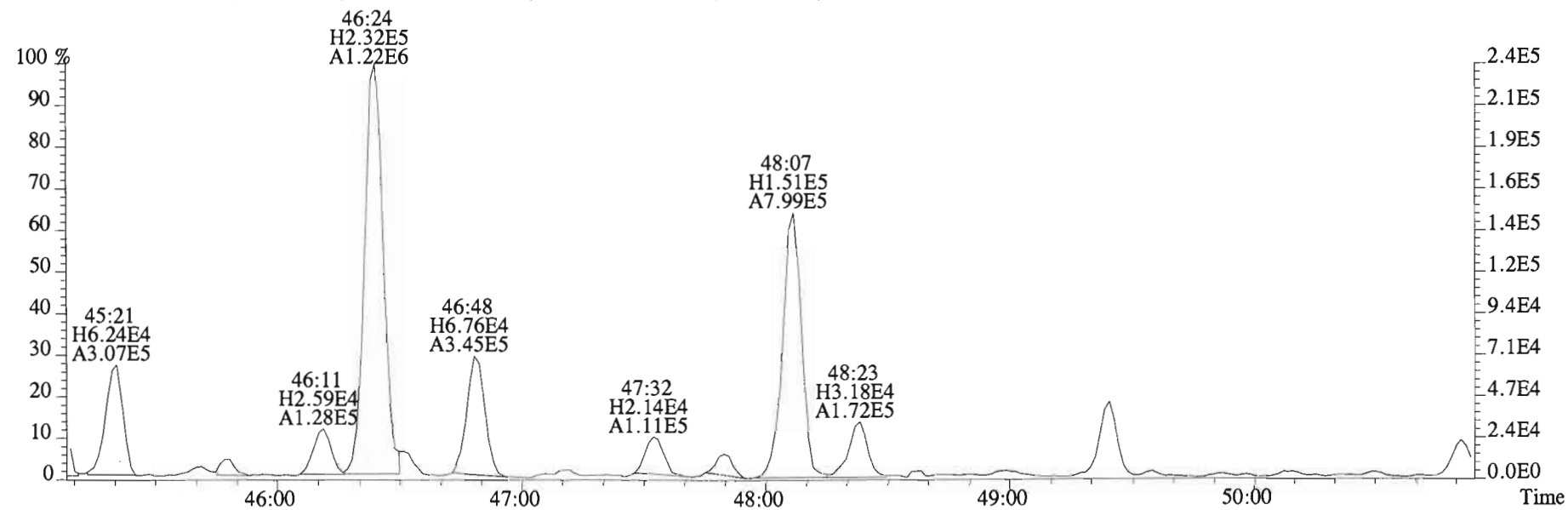
361.8385 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2692.0,0.00%,F,F)



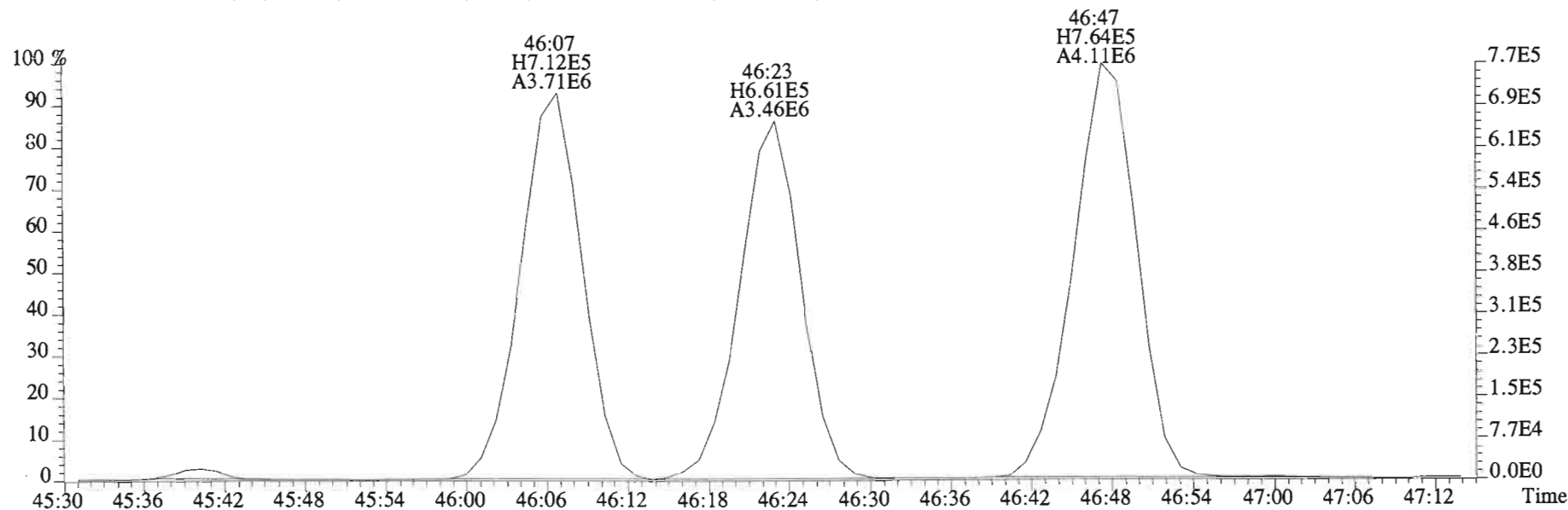
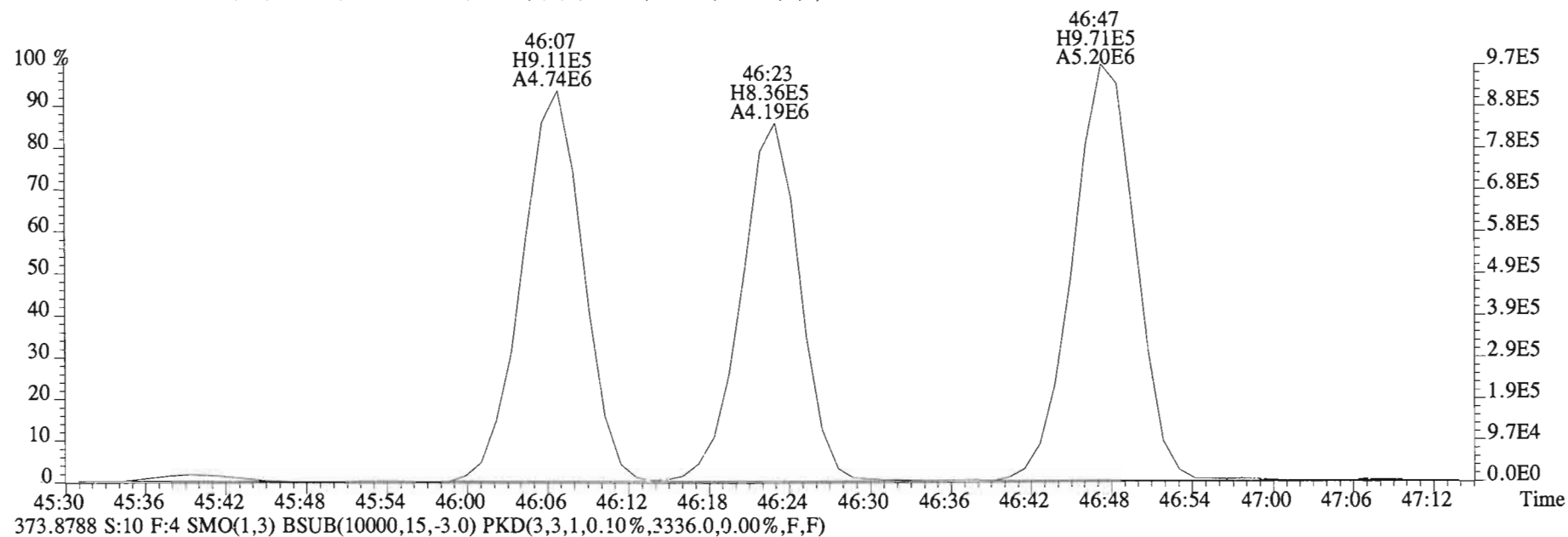
File:150219E2 #1-555 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
359.8415 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2784.0,0.00%,F,F)



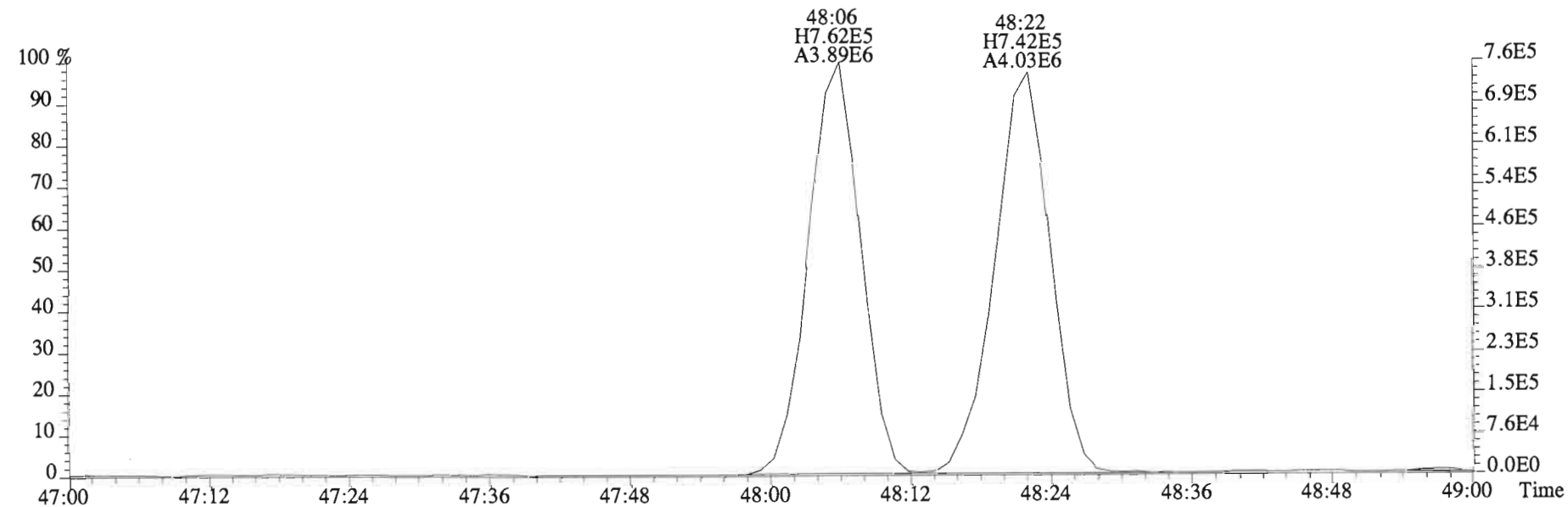
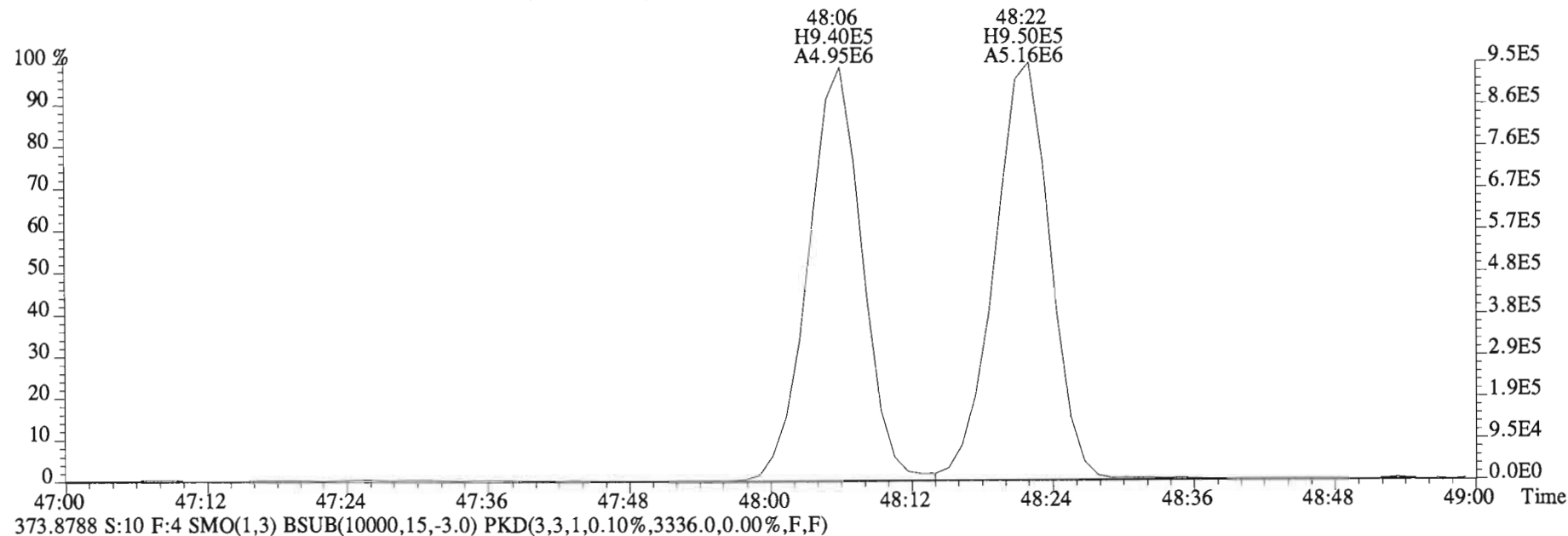
361.8385 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2692.0,0.00%,F,F)



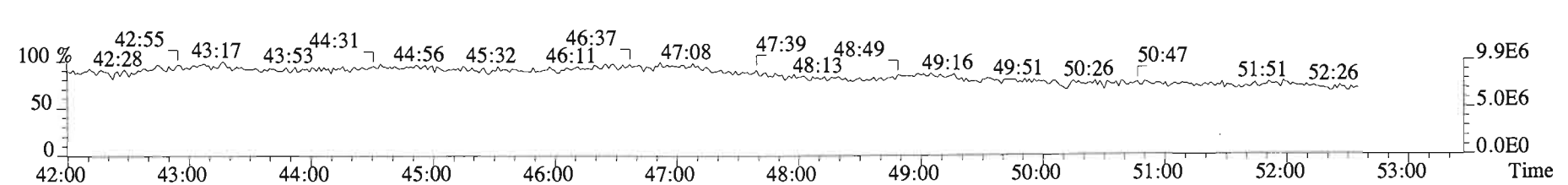
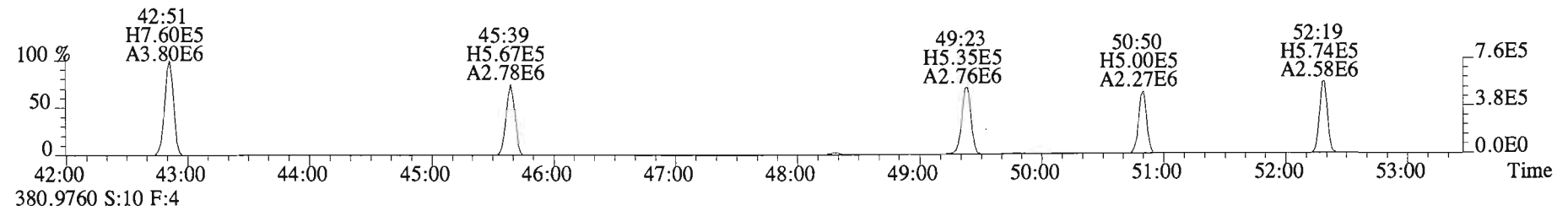
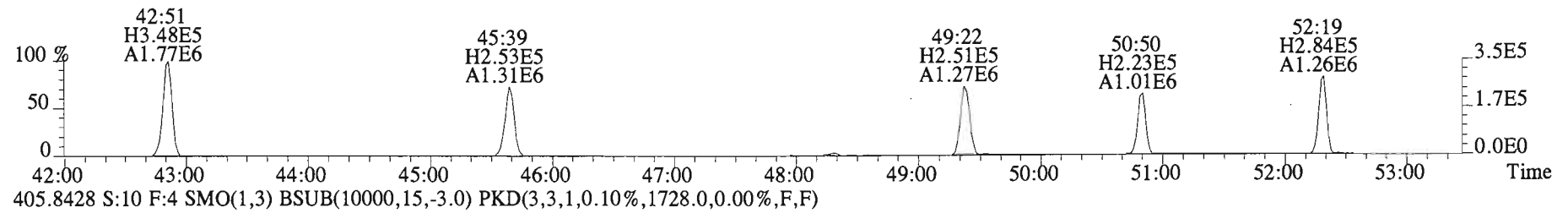
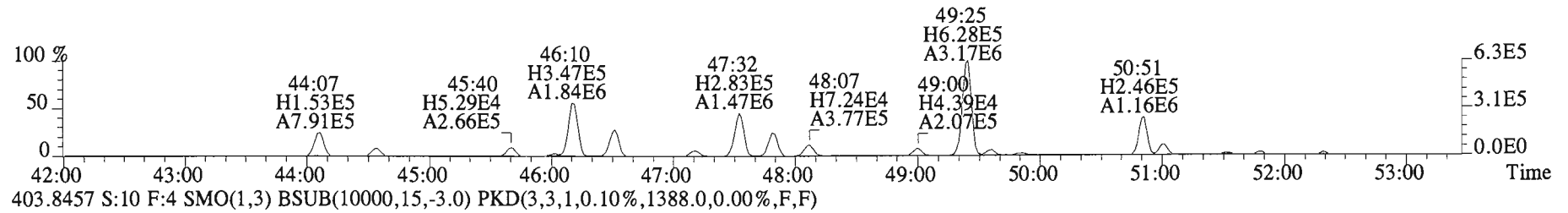
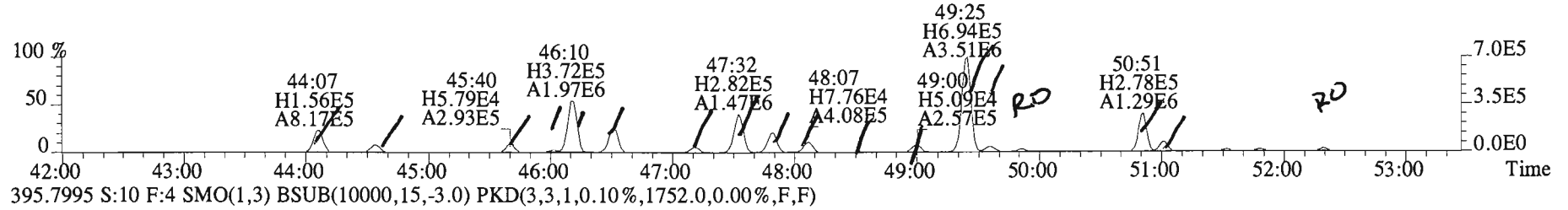
File:150219E2 #1-555 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
371.8817 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2540.0,0.00%,F,F)



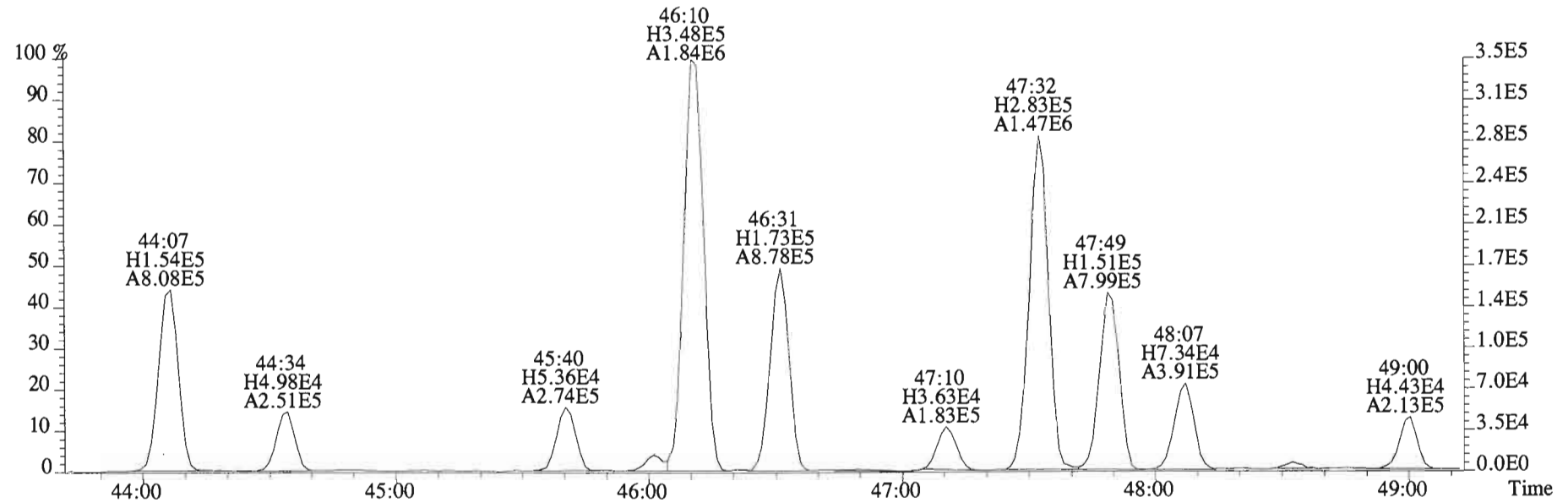
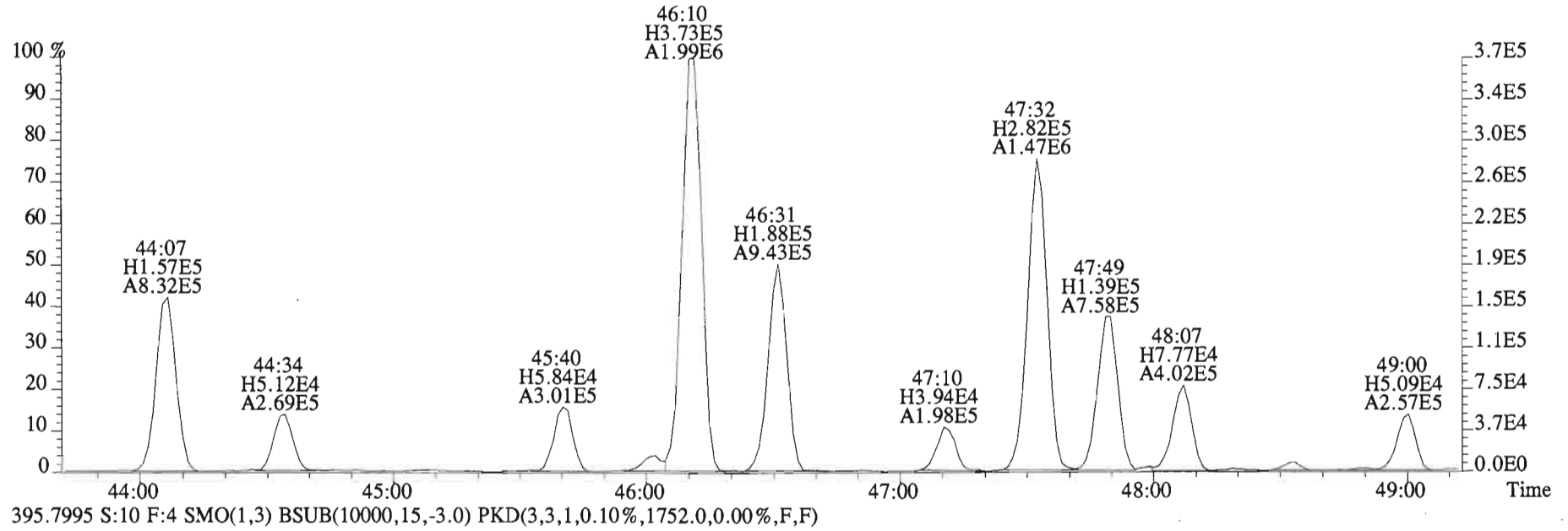
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
371.8817 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2540.0,0.00%,F,F)



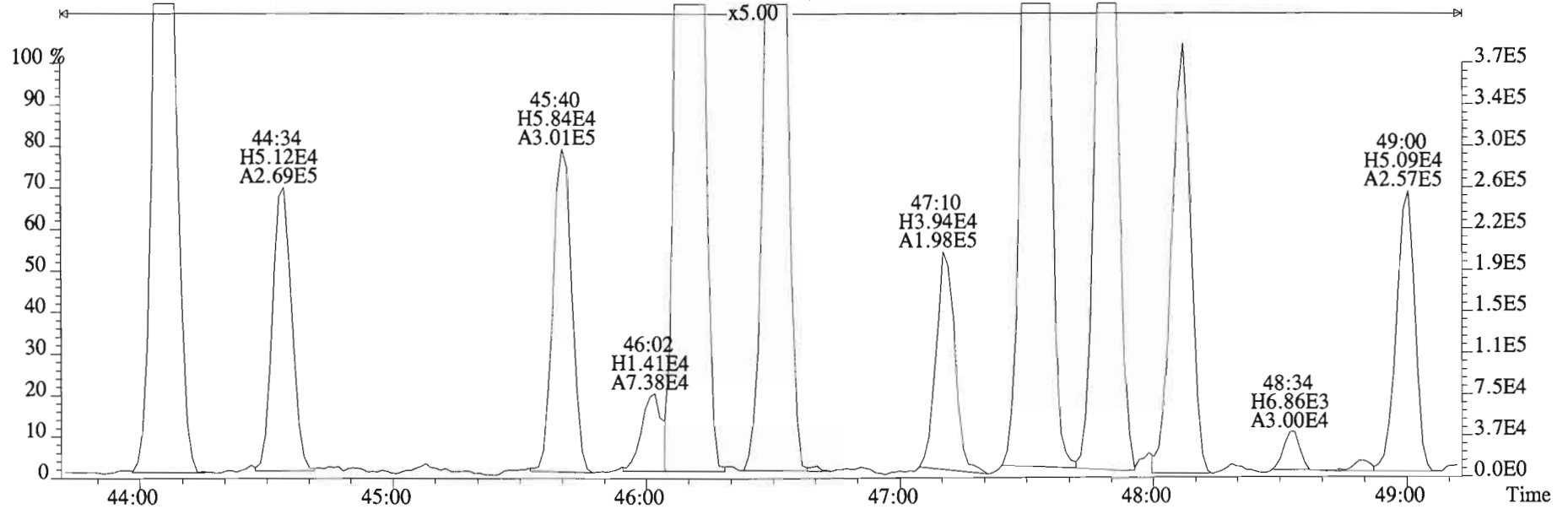
File:150219E2 #1-555 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
393.8025 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1740.0,0.00%,F,F)



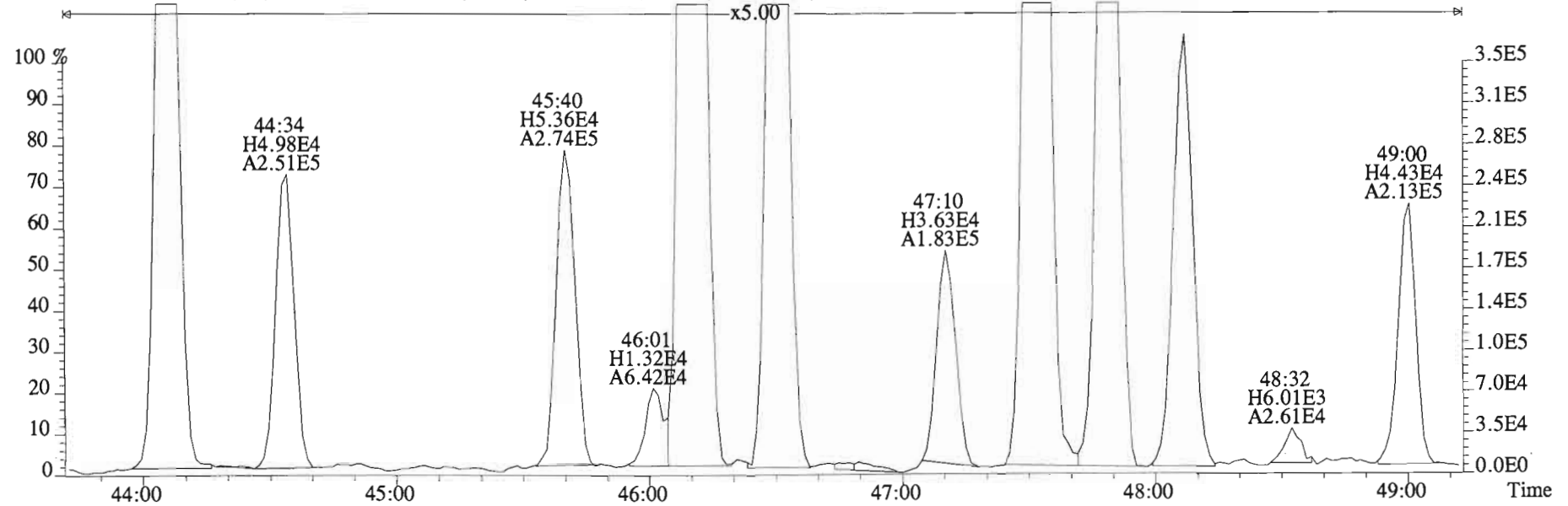
File:150219E2 #1-555 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
393.8025 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1740.0,0.00%,F,F)



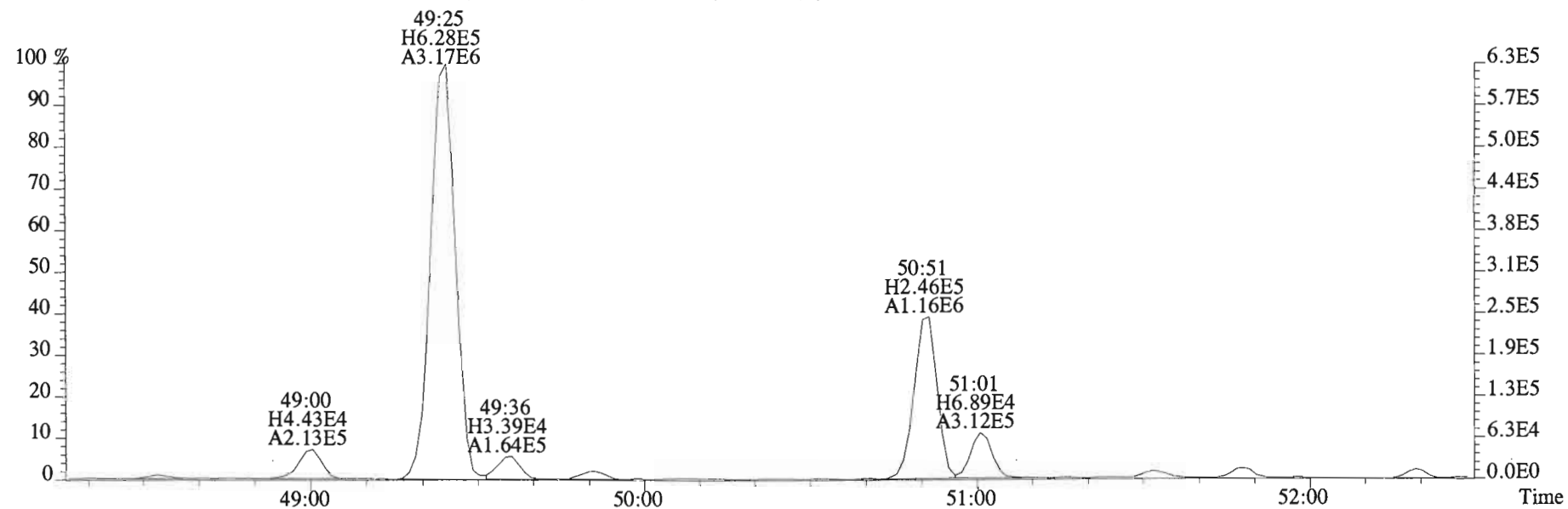
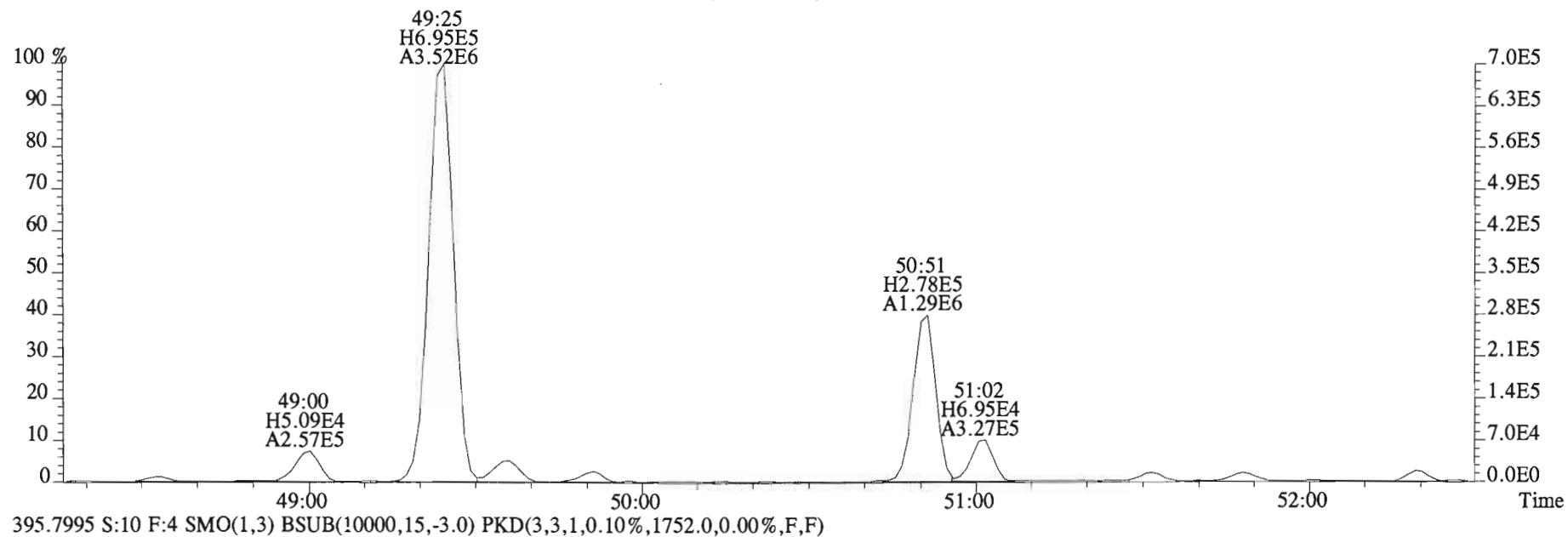
File:150219E2 #1-555 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
393.8025 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1740.0,0.00%,F,F)



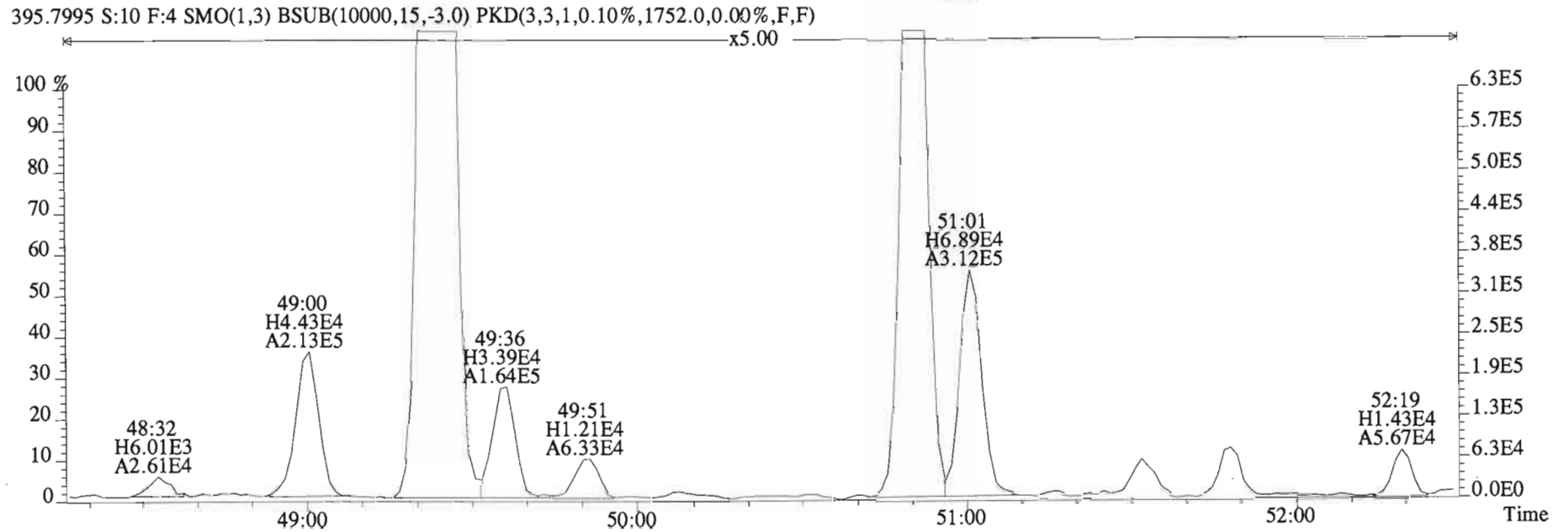
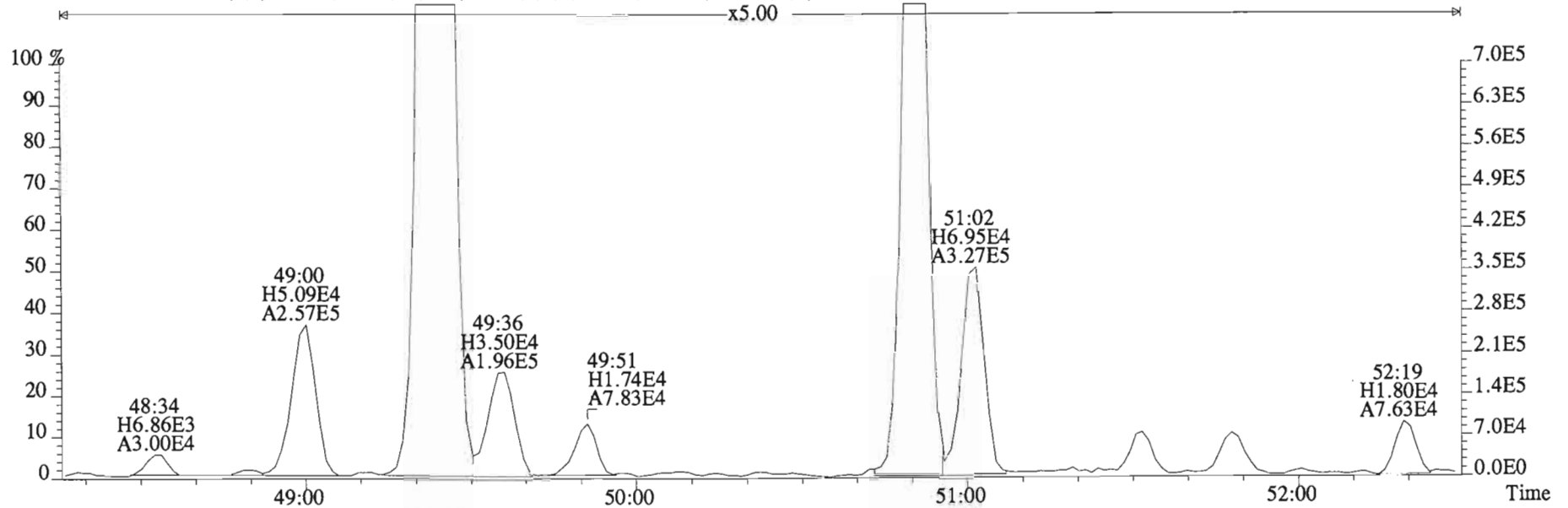
395.7995 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1752.0,0.00%,F,F)



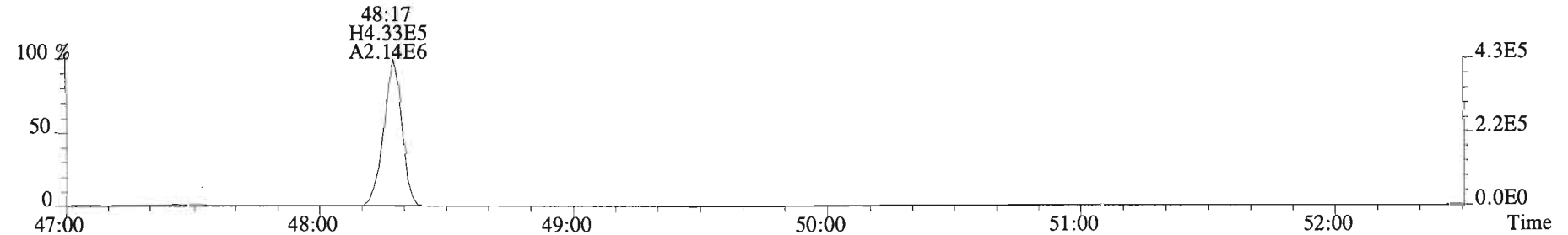
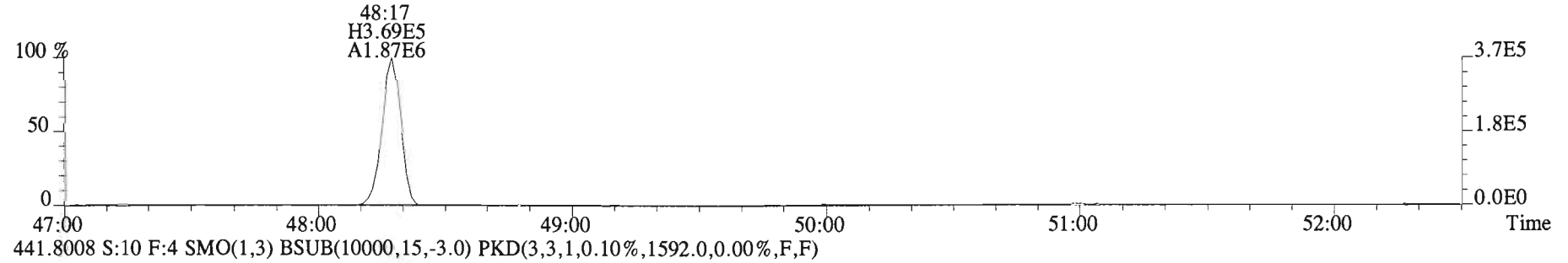
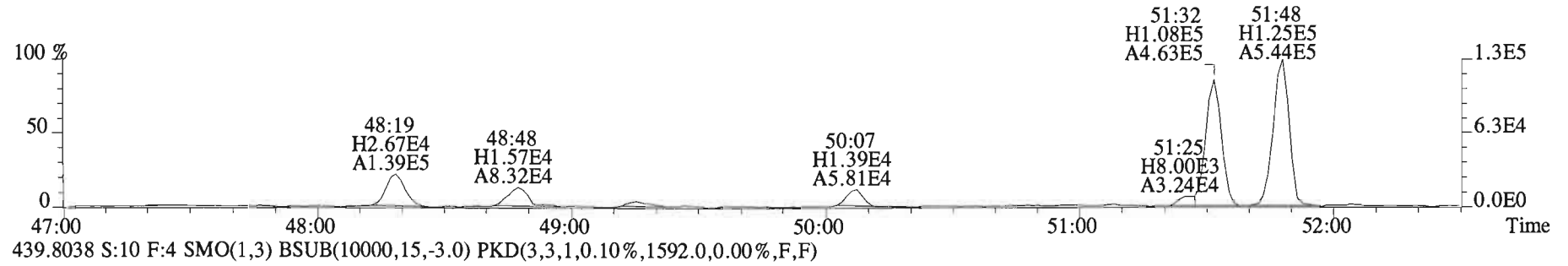
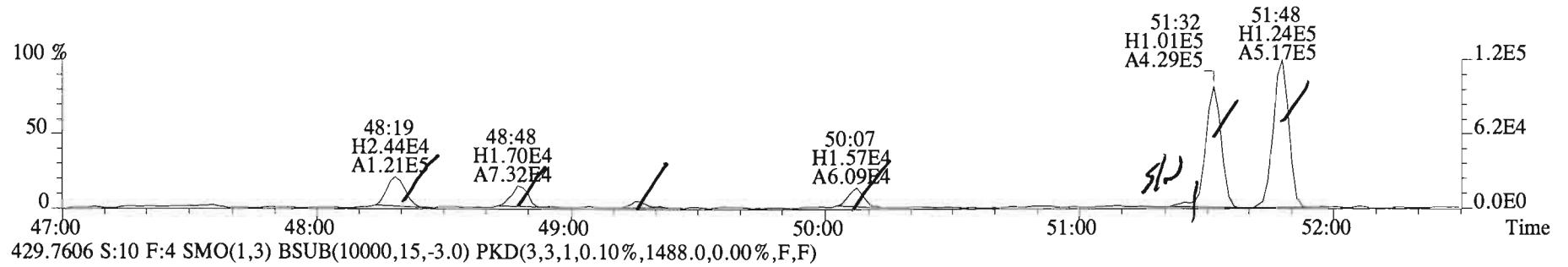
File:150219E2 #1-555 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
393.8025 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1740.0,0.00%,F,F)



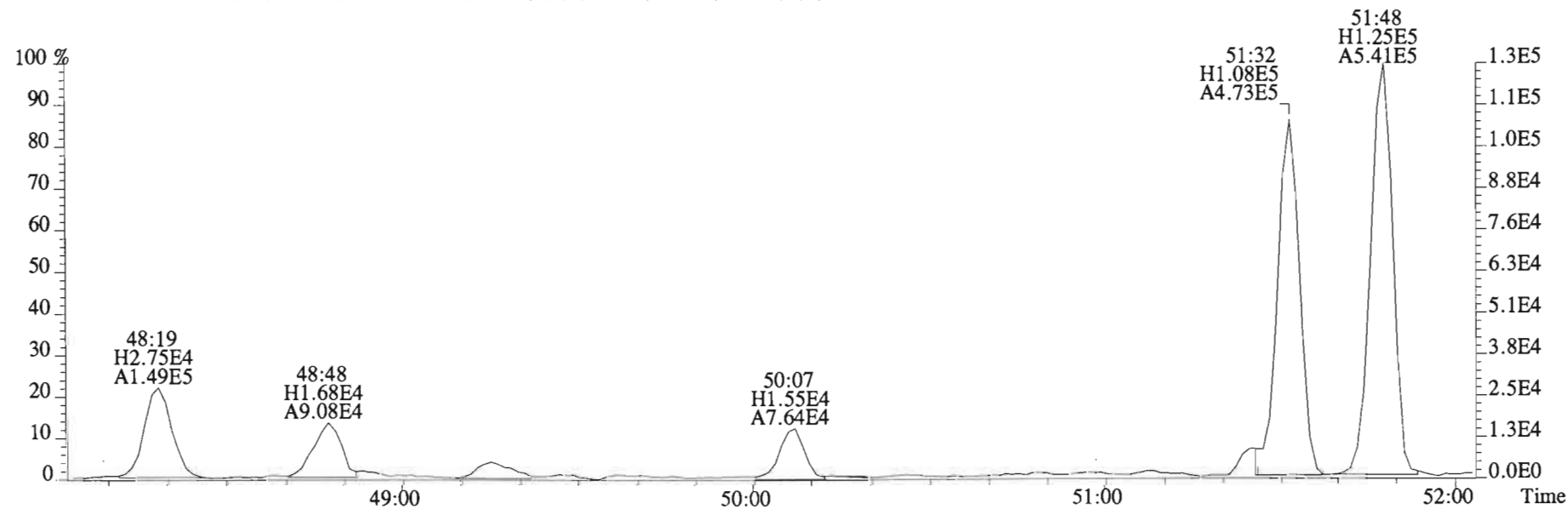
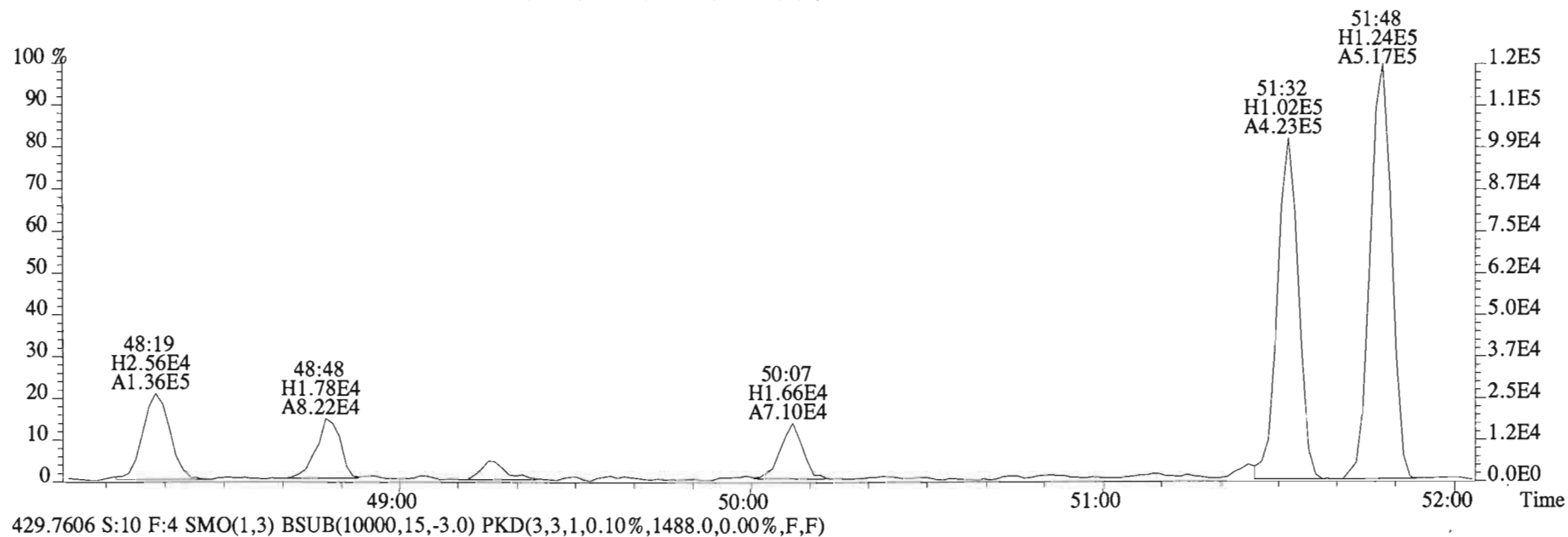
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 Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
 393.8025 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1740.0,0.00%,F,F)



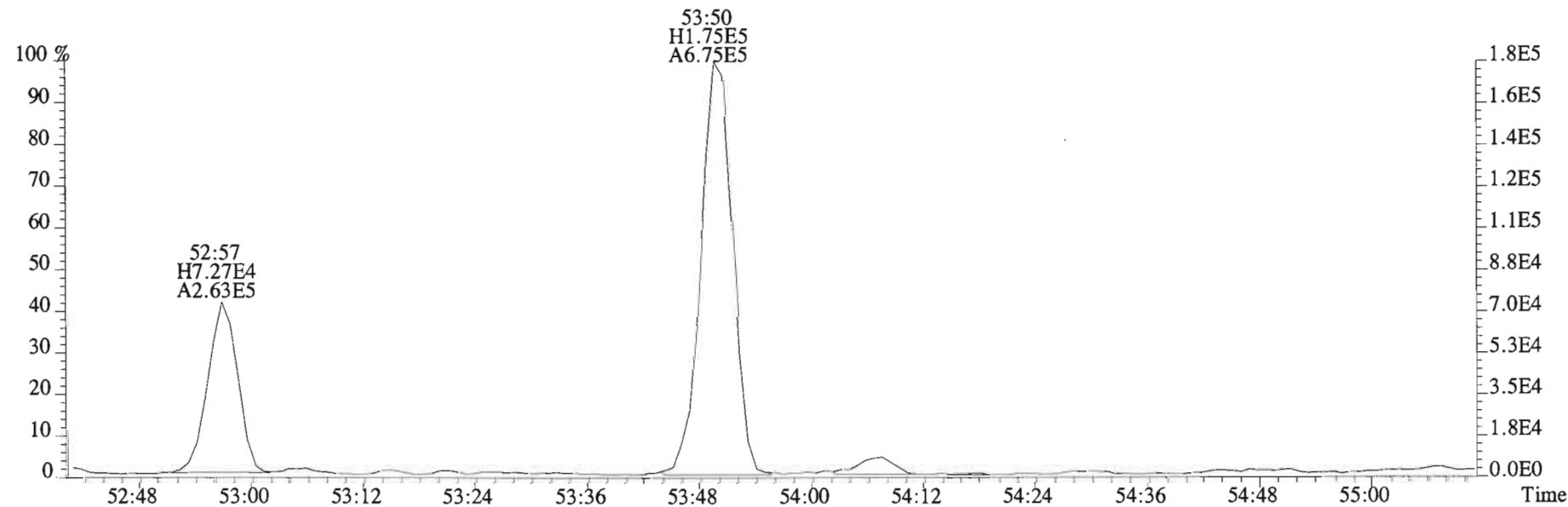
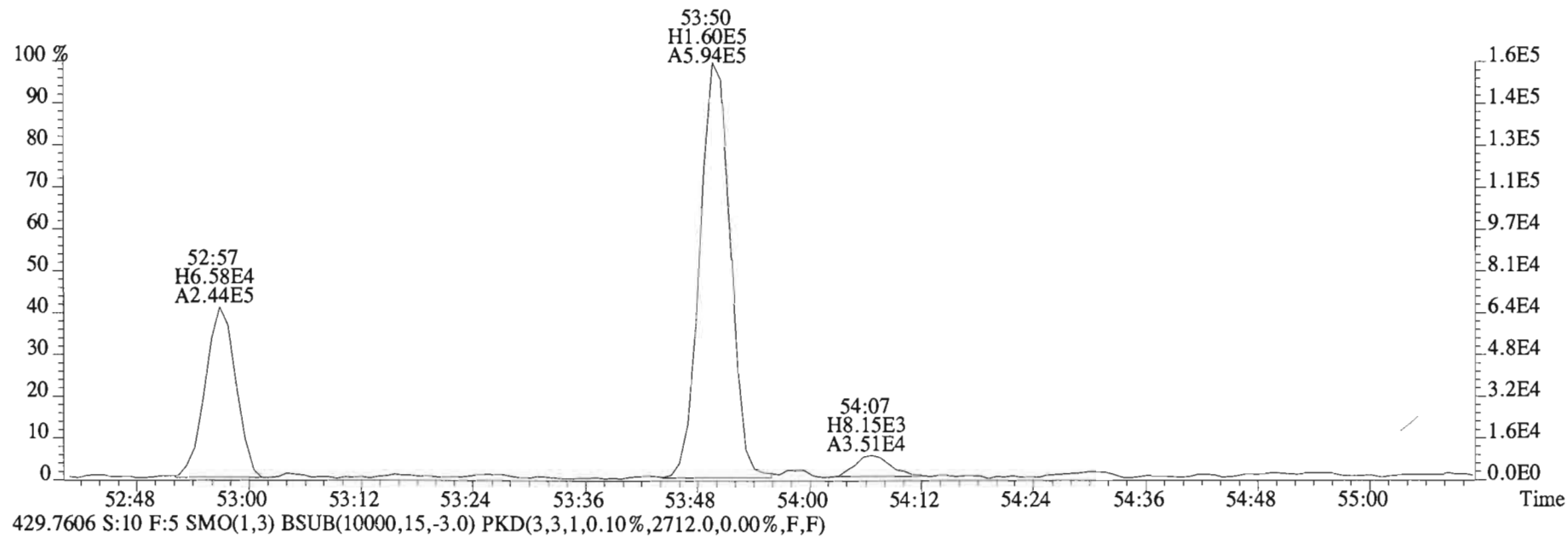
File:150219E2 #1-555 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
427.7635 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1420.0,0.00%,F,F)



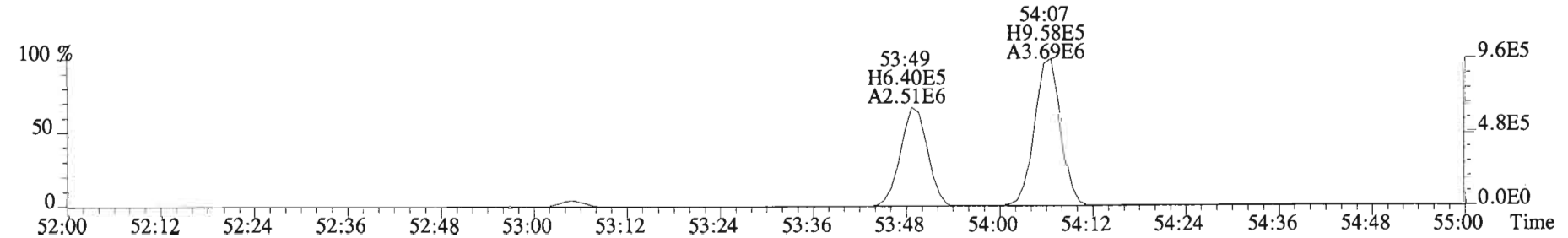
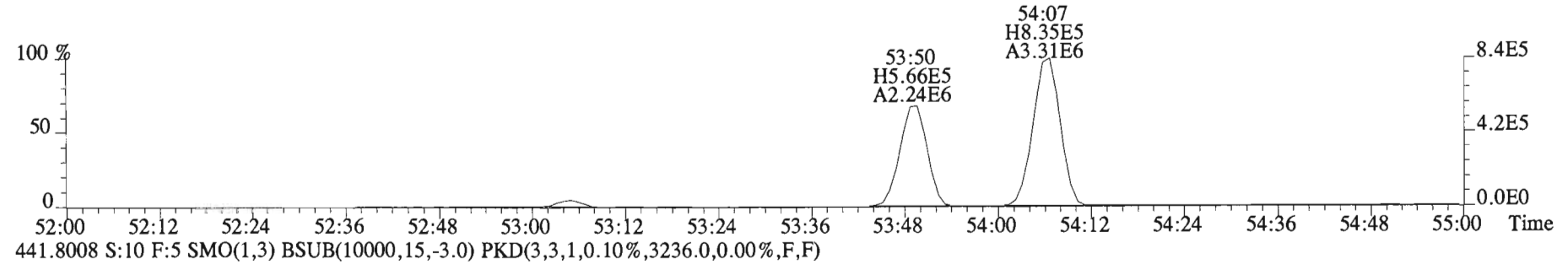
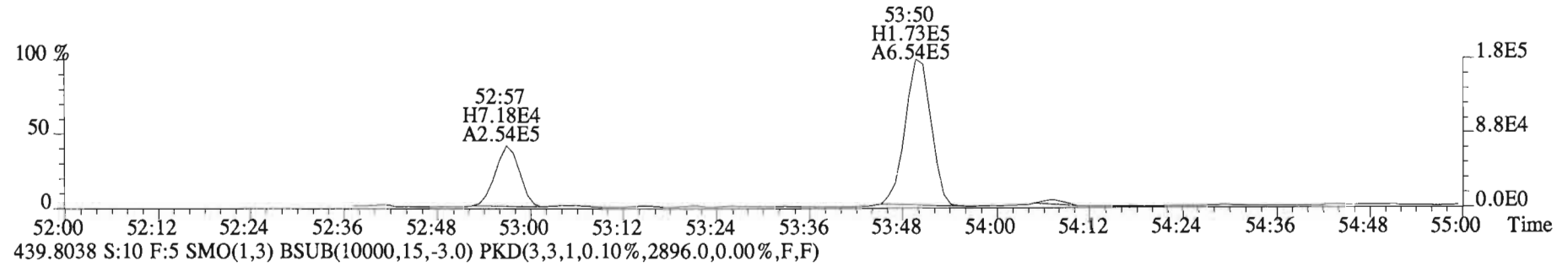
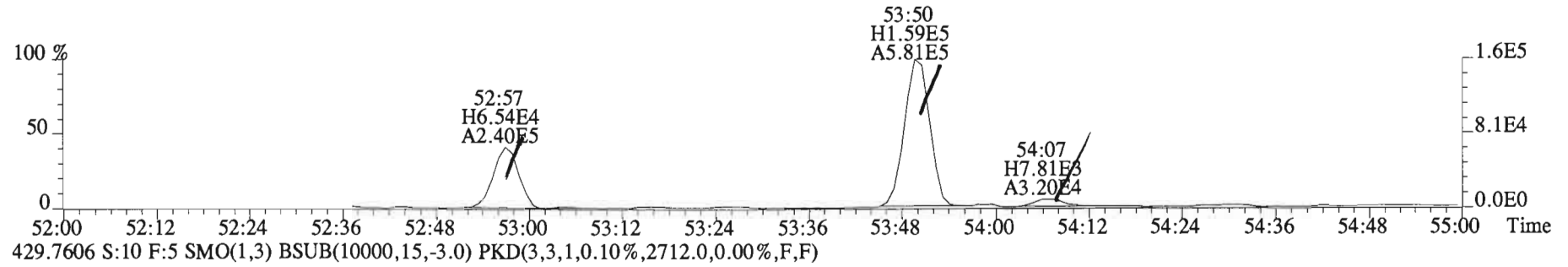
File:150219E2 #1-555 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
427.7635 S:10 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1420.0,0.00%,F,F)



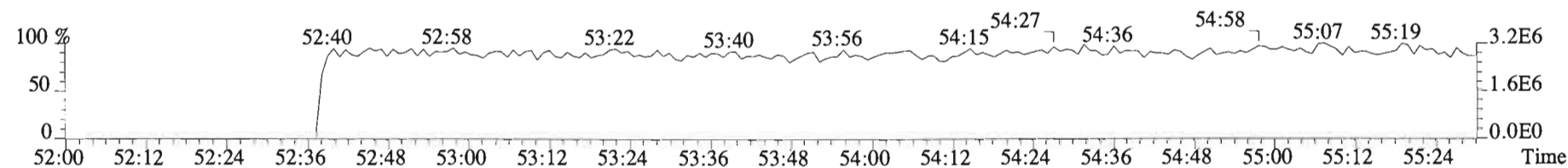
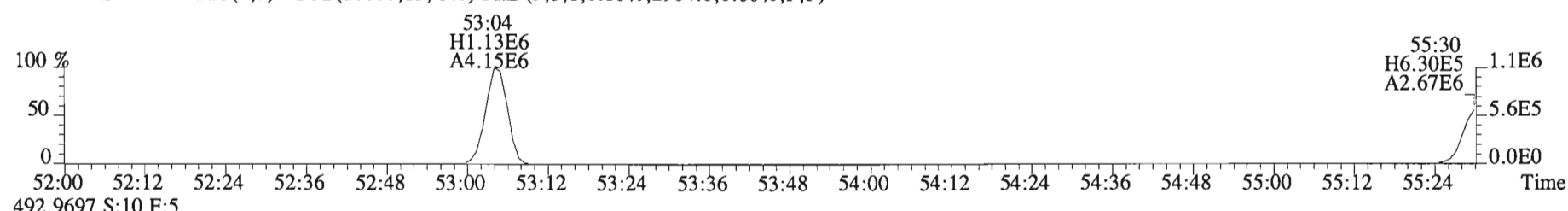
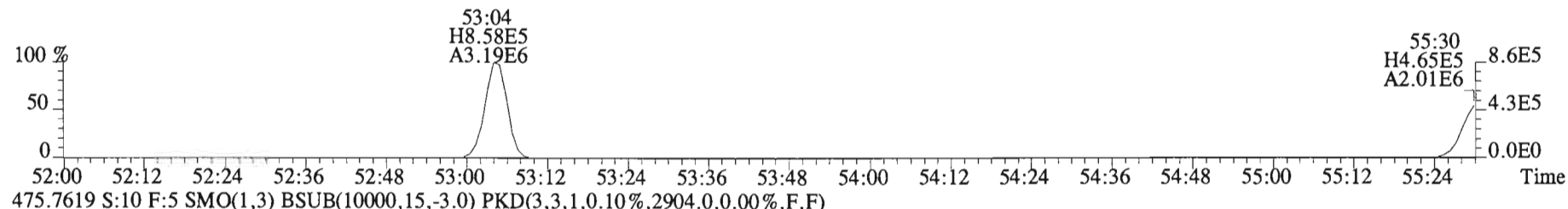
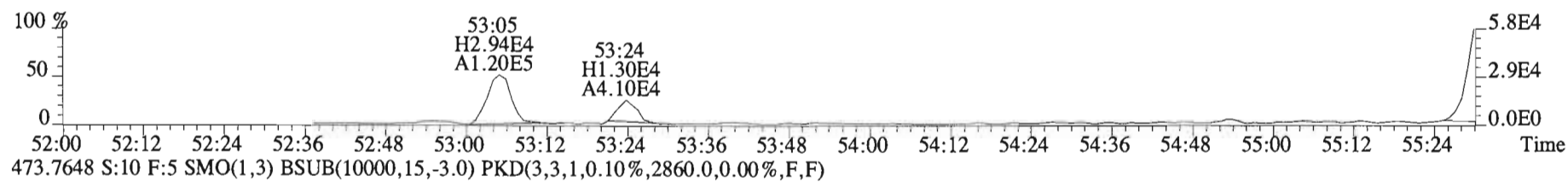
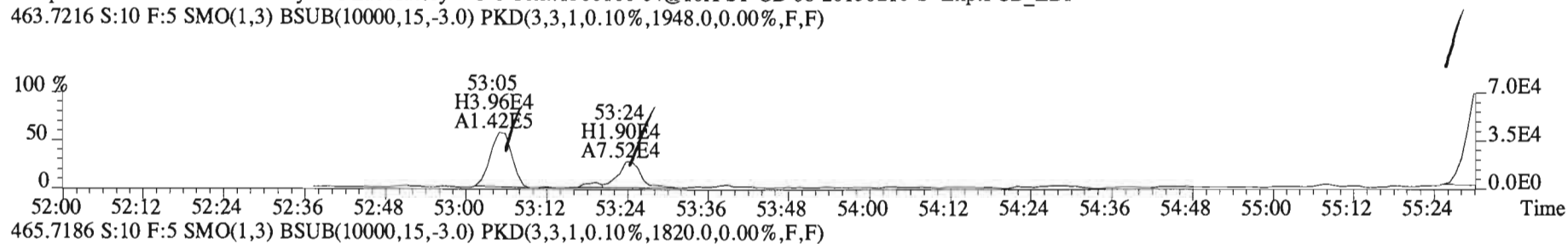
File:150219E2 #1-429 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
427.7635 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2068.0,0.00%,F,F)



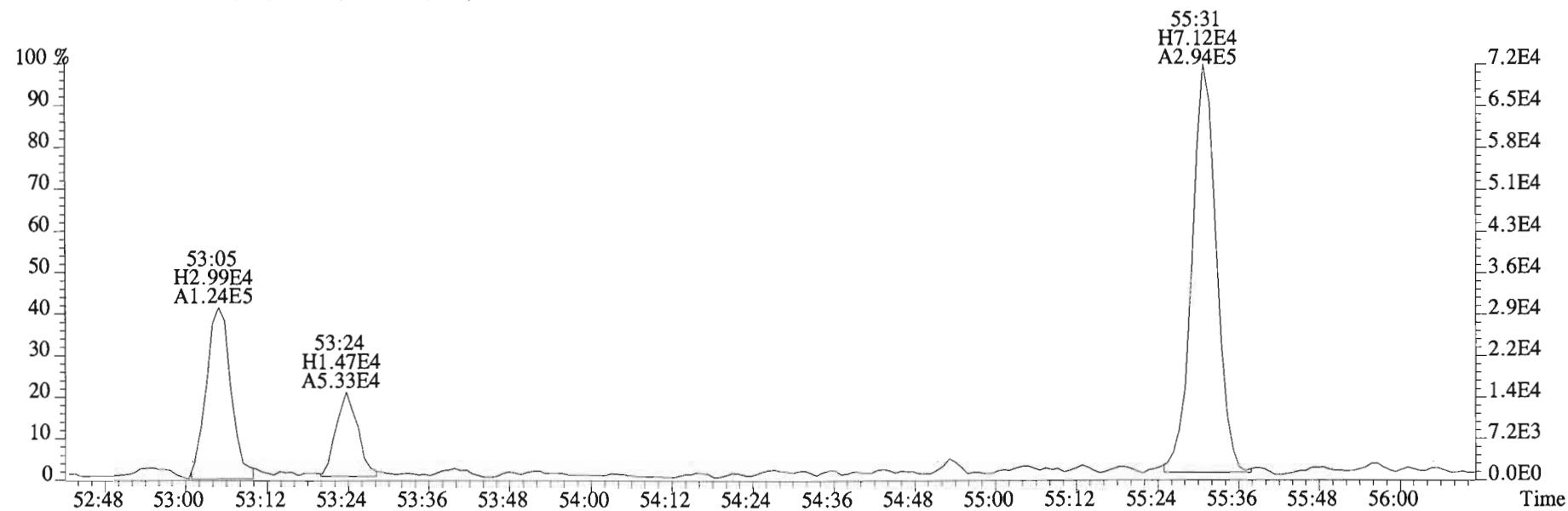
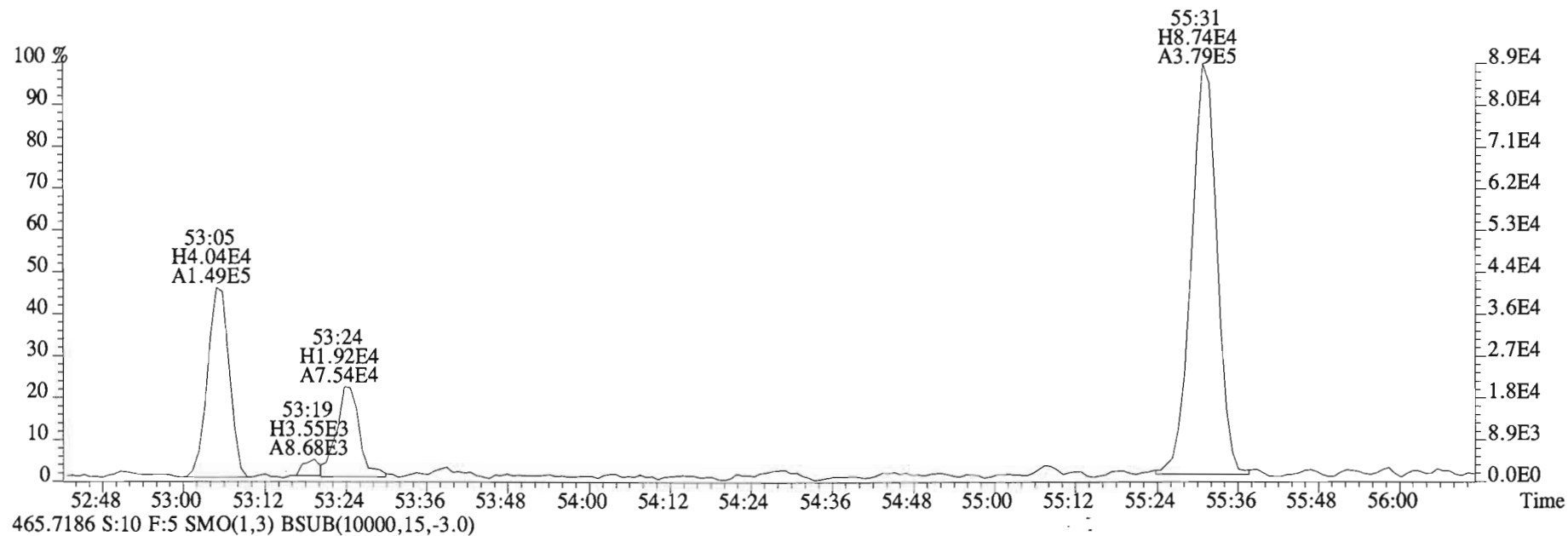
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427.7635 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2068.0,0.00%,F,F)



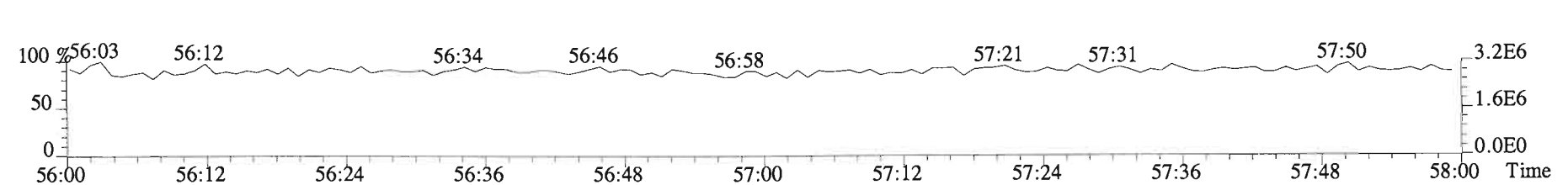
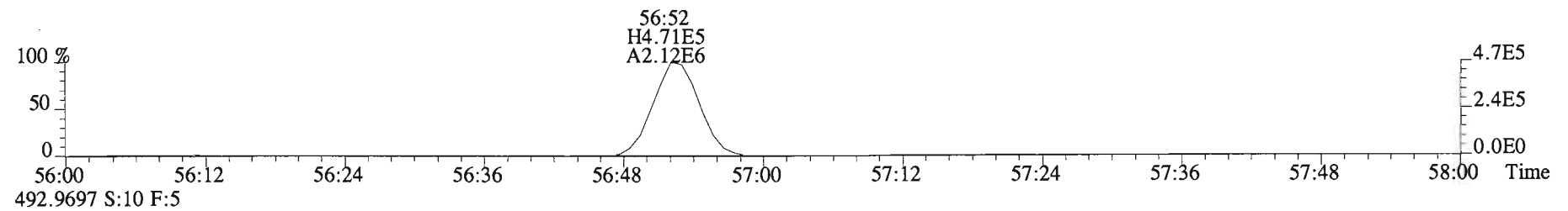
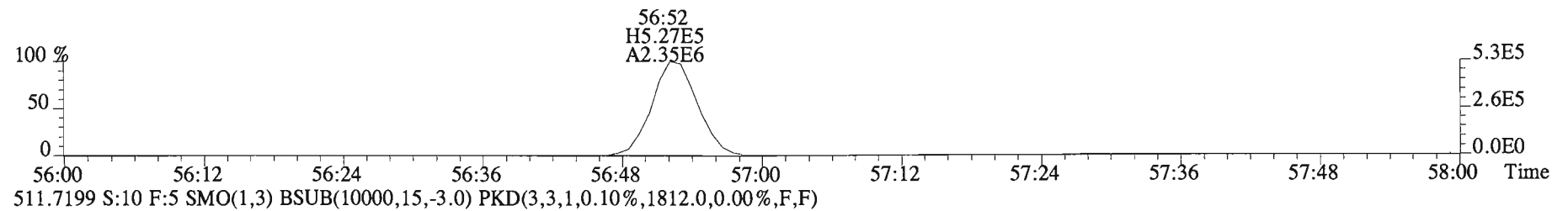
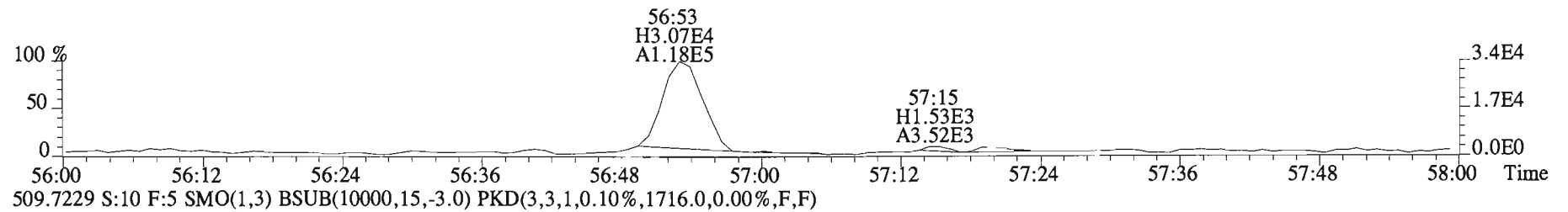
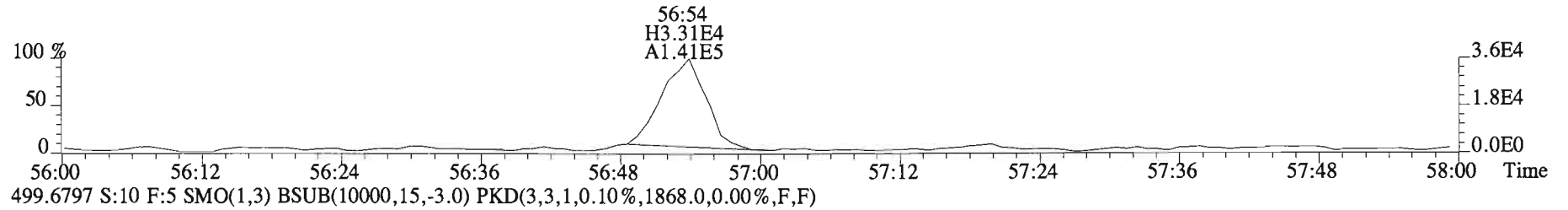
File:150219E2 #1-429 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text: Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
463.7216 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1948.0,0.00%,F,F)



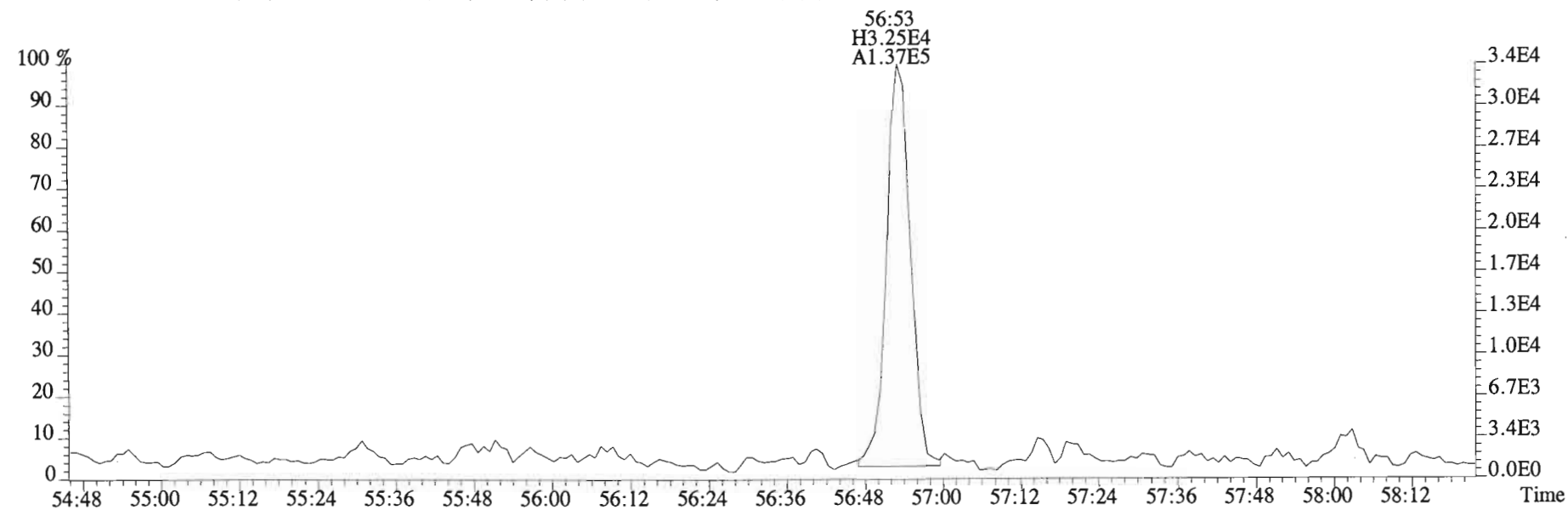
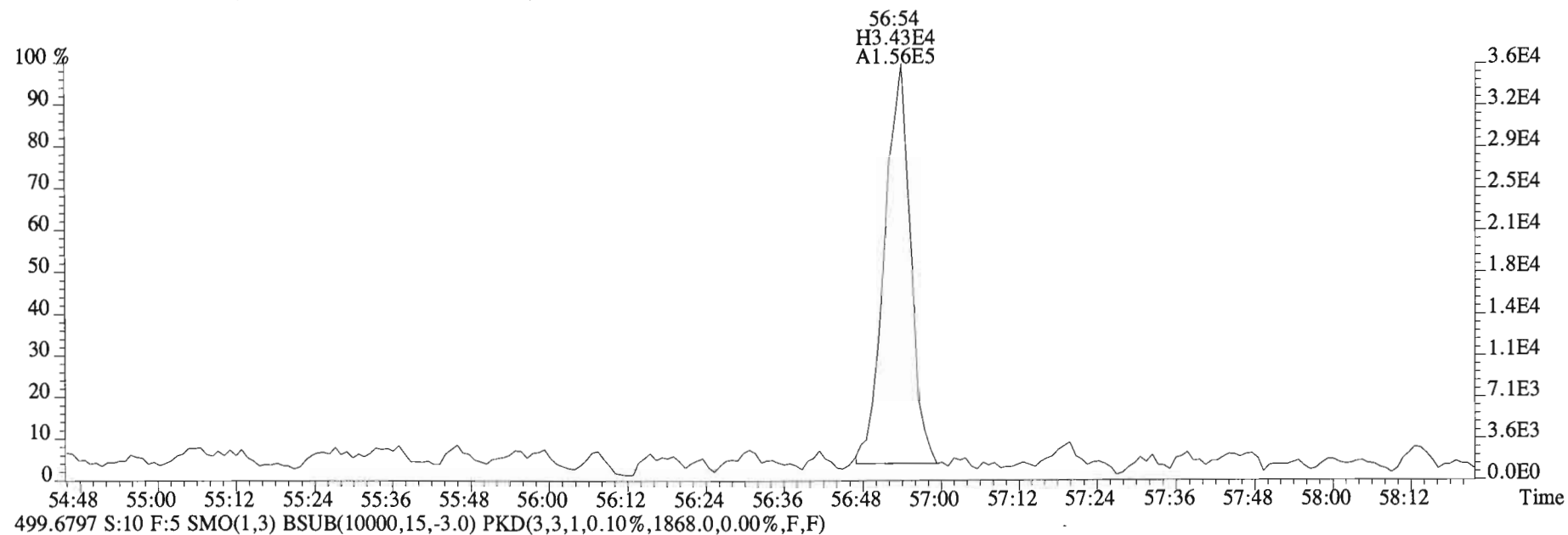
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Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
463.7216 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0)



File:150219E2 #1-429 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
497.6826 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2000.0,0.00%,F,F)



File:150219E2 #1-429 Acq:19-FEB-2015 23:44:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory VG-8 Text:1500166-04@10X ST-CB-08-20150210-S Exp:PCB_ZB1
497.6826 S:10 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2000.0,0.00%,F,F)



Client ID: ST-CB-04A-20150210-S
Lab ID: 1500166-05@10X

Filename: 150219E2 S:11 Acq:20-FEB-15 00:48:35
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.453

ConCal: ST150219E2-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Mono	PCB-1	3.26e+06	3.05	y 16:09	1.19	2570		*	2.5	*	1.001	0.996-1.006	
Mono	PCB-2	2.87e+05	3.48	y 18:30	1.18	210		*	2.5	*	0.988	0.984-0.994	
Mono	PCB-3	1.02e+06	3.04	y 18:45	1.43	622		*	2.5	*	1.001	0.996-1.006	
Di	PCB-4/10	2.68e+06	1.61	y 20:05	1.57	1460		*	2.5	*	1.002	0.997-1.007	
Di	PCB-7/9	1.33e+06	1.54	y 21:52	1.21	613		*	2.5	*	0.867	0.866-0.874	
Di	PCB-6	1.80e+06	1.62	y 22:31	1.30	772		*	2.5	*	0.893	0.890-0.899	
Di	PCB-5/8	5.79e+06	1.69	y 22:55	1.15	2810		*	2.5	*	0.909	0.907-0.917	
Di	PCB-14	*	*	n NotF η	1.11	*		9470	2.5	112	*	0.949-0.959	
Di	PCB-11	6.88e+05	1.65	y 25:13	1.09	328		*	2.5	*	1.000	0.995-1.005	
Di	PCB-12/13	8.62e+05	1.76	y 25:37	1.19	373		*	2.5	*	1.016	1.011-1.021	
Di	PCB-15	2.54e+06	1.61	y 25:56	1.28	1020		*	2.5	*	1.028	1.023-1.033	
Tri	PCB-19	1.85e+05	1.14	y 24:13	1.04	216		*	2.5	*	1.001	0.996-1.006	
Tri	PCB-30	*	*	n NotF η	1.71	*		2030	2.5	30.3	*	1.032-1.042	
Tri	PCB-18	1.73e+06	1.12	y 25:51	0.78	1730		*	2.5	*	0.954	0.949-0.959	
Tri	PCB-17	6.86e+05	1.05	y 26:01	0.92	582		*	2.5	*	0.960	0.956-0.966	
Tri	PCB-24/27	2.30e+05	1.17	y 26:35	1.19	151		*	2.5	*	0.981	0.977-0.987	
Tri	PCB-16/32	1.35e+06	1.04	y 27:06	0.94	1130		*	2.5	*	1.000	0.995-1.005	
Tri	PCB-34	*	*	n NotF η	1.14	*		1650	2.5	32.1	*	0.955-0.965	
Tri	PCB-23	*	*	n NotF η	1.28	*		1650	2.5	28.5	*	0.959-0.969	
Tri	PCB-29	*	*	n NotF η	1.08	*		1650	2.5	33.8	*	0.967-0.977	
Tri	PCB-26	3.80e+05	0.99	y 28:27	1.21	286		*	2.5	*	0.979	0.974-0.984	
Tri	PCB-25	1.15e+05	0.80	n 28:37	1.26	83.0	R	*	2.5	*	0.985	0.979-0.989	
Tri	PCB-31	1.91e+06	0.94	y 28:59	1.28	1350		*	2.5	*	0.998	0.992-1.002	
Tri	PCB-28	1.85e+06	0.97	y 29:04	1.71	979		*	2.5	*	1.001	0.995-1.005	
Tri	PCB-20/21/33	1.24e+06	1.08	y 29:43	1.08	1040		*	2.5	*	1.023	1.017-1.027	
Tri	PCB-22	6.93e+05	0.90	y 30:08	1.21	521		*	2.5	*	1.037	1.032-1.042	
Tri	PCB-36	*	*	n NotF η	1.14	*		1650	2.5	40.1	*	0.928-0.938	
Tri	PCB-39	*	*	n NotF η	1.12	*		1650	2.5	41.0	*	0.943-0.953	
Tri	PCB-38	*	*	n NotF η	1.20	*		1650	2.5	38.1	*	0.966-0.976	
Tri	PCB-35	7.44e+04	1.12	y 32:31	1.23	64.5		*	2.5	*	0.987	0.982-0.992	
Tri	PCB-37	6.69e+05	0.98	y 32:58	1.23	581		*	2.5	*	1.001	0.995-1.005	
Tetra	PCB-54	*	*	n NotF η	1.10	*		2350	2.5	43.3	*	0.996-1.006	
Tetra	PCB-50	*	*	n NotF η	0.88	*		2350	2.5	54.3	*	1.037-1.047	
Tetra	PCB-53	5.25e+05	0.77	y 29:46	1.06	583		*	2.5	*	0.946	0.942-0.952	
Tetra	PCB-51	9.00e+04	0.49	n 30:07	0.99	107	R	*	2.5	*	0.957	0.952-0.962	
Tetra	PCB-45	3.70e+05	0.80	y 30:33	0.86	506		*	2.5	*	0.971	0.966-0.976	
Tetra	PCB-46	1.33e+05	0.77	y 31:01	0.85	186		*	2.5	*	0.986	0.981-0.991	

Integrations by:

Analyst: DMS

Date: 2/24/15

Reviewed by: [Signature] Date: 2/25/15

Client ID: ST-CB-04A-20150210-S
Lab ID: 1500166-05@10X

Filename: 150219E2
GC Column ID: ZB-1

S:11 Acq:20-FEB-15 00:48:35
ICal: PCBVG8-6-23-14 wt/vol: 2.453

ConCal: ST150219E2-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Tetra	PCB-52/69	1.13e+07	0.76	y 31:30	1.28	10400		*	2.5	*	1.001	0.996-1.006	
Tetra	PCB-73	*	*	n NotF η	1.35	*		2350	2.5	43.3	*	1.000-1.010	
Tetra	PCB-43/49	3.02e+06	0.73	y 31:48	0.99	3590		*	2.5	*	1.011	1.005-1.015	
Tetra	PCB-47	7.49e+05	0.73	y 31:59	1.06	839		*	2.5	*	1.000	0.996-1.006	
Tetra	PCB-48/75	5.92e+05	0.73	y 32:07	1.23	571		*	2.5	*	1.004	0.999-1.009	
Tetra	PCB-65	*	*	n NotF η	1.22	*		2350	2.5	50.2	*	1.008-1.018	
Tetra	PCB-62	*	*	n NotF η	1.22	*		2350	2.5	50.3	*	1.011-1.021	
Tetra	PCB-44	4.86e+06	0.74	y 32:47	0.86	6700		*	2.5	*	1.025	1.021-1.031	
Tetra	PCB-42/59	9.64e+05	0.82	y 33:01	1.14	1000		*	2.5	*	1.032	1.028-1.038	
Tetra	PCB-41/64/71/72	3.84e+06	0.72	y 33:36	1.21	3770		*	2.5	*	1.051	1.046-1.056	
Tetra	PCB-68	*	*	n NotF η	1.35	*		2350	2.5	45.6	*	1.054-1.064	
Tetra	PCB-40	4.31e+05	0.85	y 34:04	0.70	728		*	2.5	*	1.065	1.061-1.071	
Tetra	PCB-57	*	*	n NotF η	0.98	*		2350	2.5	51.7	*	0.965-0.975	
Tetra	PCB-67	1.01e+05	0.87	y 34:44	1.11	86.9		*	2.5	*	0.979	0.974-0.984	
Tetra	PCB-58	*	*	n NotF η	0.93	*		2350	2.5	54.6	*	0.977-0.987	
Tetra	PCB-63	1.86e+05	0.84	y 35:00	0.95	186		*	2.5	*	0.986	0.982-0.992	
Tetra	PCB-74	3.10e+06	0.83	y 35:18	1.24	2380		*	2.5	*	0.995	0.990-1.000	
Tetra	PCB-61/70	1.14e+07	0.77	y 35:31	0.95	11400		*	2.5	*	1.001	0.995-1.005	
Tetra	PCB-76/66	5.02e+06	0.76	y 35:43	1.04	4600		*	2.5	*	1.007	1.001-1.011	
Tetra	PCB-80	*	*	n NotF η	1.19	*		2350	2.5	41.7	*	0.996-1.006	
Tetra	PCB-55	2.05e+05	0.58	n 36:13	1.04	190	R	*	2.5	*	1.008	1.005-1.015	
Tetra	PCB-56/60	3.12e+06	0.75	y 36:44	1.01	2970		*	2.5	*	1.023	1.019-1.029	
Tetra	PCB-79	3.79e+05	0.80	y 37:49	1.08	338		*	2.5	*	1.053	1.048-1.058	
Tetra	PCB-78	*	*	n NotF η	1.27	*		2350	2.5	44.8	*	0.982-0.992	
Tetra	PCB-81	1.73e+05	0.83	y 39:02	1.33	132		*	2.5	*	1.000	0.995-1.005	
Tetra	PCB-77	4.75e+05	0.81	y 39:39	1.10	458		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-104	*	*	n NotF η	1.18	*		927	2.5	36.1	*	0.996-1.006	
Penta	PCB-96	1.13e+05	1.46	y 33:54	1.14	148		*	2.5	*	1.039	1.034-1.044	
Penta	PCB-103	8.31e+04	1.40	y 34:27	0.96	130		*	2.5	*	1.056	1.050-1.060	
Penta	PCB-100	*	*	n NotF η	0.94	*		927	2.5	45.6	*	1.061-1.071	
Penta	PCB-94	4.75e+04	1.36	y 35:17	1.06	87.0		*	2.5	*	0.986	0.980-0.990	
Penta	PCB-95/98/102	1.28e+07	1.56	y 35:49	1.22	20200		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-93	*	*	n NotF η	0.84	*		927	2.5	66.9	*	0.997-1.007	
Penta	PCB-88/91	1.83e+06	1.61	y 36:13	1.12	3170		*	2.5	*	1.012	1.005-1.015	
Penta	PCB-121	*	*	n NotF η	1.62	*		927	2.5	34.9	*	1.009-1.019	
Penta	PCB-84/92	6.40e+06	1.62	y 37:07	1.05	11200		*	2.5	*	0.990	0.985-0.995	
Penta	PCB-89	1.03e+05	1.62	y 37:19	1.13	166		*	2.5	*	0.996	0.991-1.001	

Analyst: DMJ

Date: 2/24/15

Client ID: ST-CB-04A-20150210-S
Lab ID: 1500166-05@10X

Filename: 150219E2 S:11 Acq:20-FEB-15 00:48:35
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.453

ConCal: ST150219E2-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Penta	PCB-90/101	1.69e+07	1.60	y 37:30	1.10	28100		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-113	*	*	n NotF η	1.41	*		927	2.5	39.9	*	1.002-1.012	
Penta	PCB-99	6.80e+06	1.58	y 37:49	1.34	9310		*	2.5	*	1.009	1.004-1.014	
Penta	PCB-119	3.14e+05	1.46	y 38:18	1.53	403		*	2.5	*	0.988	0.982-0.992	
Penta	PCB-108/112	6.94e+05	1.62	y 38:27	1.28	1070		*	2.5	*	0.991	0.986-0.996	
Penta	PCB-83	*	*	n NotF η	1.52	*		927	2.5	39.6	*	0.990-1.000	
Penta	PCB-97	4.65e+06	1.58	y 38:48	1.18	7740		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-86	*	*	n NotF η	0.84	*		927	2.5	71.4	*	0.999-1.009	
Penta	PCB-87/117/125	7.41e+06	1.55	y 39:05	1.55	9410		*	2.5	*	1.008	1.002-1.012	
Penta	PCB-111/115	3.29e+05	1.74	y 39:13	1.63	396		*	2.5	*	1.011	1.006-1.016	
Penta	PCB-85/116	2.64e+06	1.55	y 39:20	1.30	3990		*	2.5	*	1.014	1.010-1.020	
Penta	PCB-120	6.89e+04	1.64	y 39:34	1.68	80.9		*	2.5	*	1.020	1.016-1.026	
Penta	PCB-110	2.29e+07	1.61	y 39:45	1.56	28900		*	2.5	*	1.025	1.020-1.030	
Penta	PCB-82	1.50e+06	1.75	y 40:23	0.76	3210		*	2.5	*	0.976	0.971-0.981	
Penta	PCB-124	8.52e+05	1.76	y 41:04	1.47	943		*	2.5	*	0.993	0.988-0.998	
Penta	PCB-107/109	1.09e+06	1.56	y 41:14	1.32	1340		*	2.5	*	0.997	0.991-1.001	
Penta	PCB-123	2.99e+05	1.56	y 41:23	1.17	417		*	2.5	*	1.000	0.996-1.006	
Penta	PCB-106/118	1.76e+07	1.59	y 41:33	1.17	23800		*	2.5	*	1.000	0.996-1.006	
Penta	PCB-114	6.70e+05	1.56	y 42:13	1.30	477		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-122	2.73e+05	1.46	y 42:21	1.12	225		*	2.5	*	1.004	0.999-1.009	
Penta	PCB-105	1.11e+07	1.63	y 43:05	1.30	8530		*	2.5	*	1.000	0.995-1.005	
Penta	PCB-127	*	*	n NotF η	1.33	*		2620	2.5	63.8	*	0.996-1.006	
Penta	PCB-126	1.42e+05	1.64	y 45:19	1.18	136		*	2.5	*	1.000	0.995-1.005	
Hexa	PCB-155	*	*	n NotF η	1.11	*		1050	2.5	65.4	*	0.966-1.006	
Hexa	PCB-150	*	*	n NotF η	1.00	*		1050	2.5	73.0	*	1.030-1.040	
Hexa	PCB-152	*	*	n NotF η	1.12	*		1050	2.5	65.3	*	1.043-1.053	
Hexa	PCB-145	*	*	n NotF η	1.20	*		1050	2.5	60.7	*	1.055-1.065	
Hexa	PCB-136	1.62e+06	1.31	y 39:33	1.18	3200		*	2.5	*	1.068	1.064-1.074	
Hexa	PCB-148	*	*	n NotF η	0.74	*		1050	2.5	97.9	*	1.066-1.076	
Hexa	PCB-154	9.92e+04	1.52	n 40:08	0.86	268	R	*	2.5	*	1.084	1.080-1.090	
Hexa	PCB-151	1.86e+06	1.29	y 40:48	0.75	5770		*	2.5	*	1.102	1.097-1.107	
Hexa	PCB-135	1.15e+06	1.30	y 41:00	0.79	3360		*	2.5	*	1.108	1.103-1.113	
Hexa	PCB-144	4.82e+05	1.41	y 41:07	0.76	1470		*	2.5	*	1.111	1.105-1.117	
Hexa	PCB-147	1.56e+05	1.39	y 41:15	0.82	442		*	2.5	*	1.114	1.109-1.121	
Hexa	PCB-139/149	7.58e+06	1.27	y 41:30	0.76	23100		*	2.5	*	1.121	1.116-1.128	
Hexa	PCB-140	*	*	n NotF η	0.72	*		1050	2.5	101	*	1.121-1.133	
Hexa	PCB-134/143	1.38e+06	1.17	y 42:08	0.92	1730		*	2.5	*	0.975	0.970-0.980	

Analyst: DMS

Date: 2/24/15

Client ID: ST-CB-04A-20150210-S
Lab ID: 1500166-05@10X

Filename: 150219E2
GC Column ID: ZB-1

S:11 Acq:20-FEB-15 00:48:35
ICal: PCBVG8-6-23-14 wt/vol: 2.453

ConCal: ST150219E2-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hexa	PCB-133/142	6.68e+05	1.07	y 42:26	0.82	936	*	2.5	*	*	0.982	0.977-0.987	
Hexa	PCB-131	*	*	n NotF η	0.91	*	*	3010	2.5	121	*	0.981-0.991	
Hexa	PCB-146/165	3.50e+06	1.26	y 42:50	1.25	3220	*	2.5	*	*	0.991	0.986-0.996	
Hexa	PCB-132/161	8.53e+06	1.25	y 43:06	1.10	8860	*	2.5	*	*	0.997	0.992-1.002	
Hexa	PCB-153	2.29e+07	1.30	y 43:14	1.25	21100	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-168	*	*	n NotF η	1.45	*	*	3010	2.5	76.1	*	1.001-1.011	
Hexa	PCB-141	4.83e+06	1.35	y 43:58	1.09	5410	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-137	1.42e+06	1.30	y 44:21	1.06	1620	*	2.5	*	*	1.009	1.004-1.014	
Hexa	PCB-130	1.32e+06	1.18	y 44:28	0.96	1660	*	2.5	*	*	1.011	1.006-1.016	
Hexa	PCB-138/163/164	2.82e+07	1.25	y 44:50	1.29	27400	*	2.5	*	*	1.001	0.996-1.006	
Hexa	PCB-158/160	3.59e+06	1.32	y 45:04	1.34	3360	*	2.5	*	*	1.006	1.001-1.011	
Hexa	PCB-129	1.23e+06	1.35	y 45:19	0.85	1810	*	2.5	*	*	1.012	1.007-1.017	
Hexa	PCB-166	1.23e+05	1.35	y 45:48	1.19	114	*	2.5	*	*	0.993	0.988-0.998	
Hexa	PCB-159	*	*	n NotF η	1.11	*	*	3010	2.5	89.0	*	0.996-1.006	
Hexa	PCB-128/162	4.46e+06	1.23	y 46:23	1.05	4710	*	2.5	*	*	1.006	1.002-1.012	
Hexa	PCB-167	1.26e+06	1.28	y 46:48	1.20	1100	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-156	3.11e+06	1.27	y 48:06	1.14	3010	*	2.5	*	*	1.000	0.996-1.006	
Hexa	PCB-157	7.43e+05	1.32	y 48:22	1.16	666	*	2.5	*	*	1.000	0.995-1.005	
Hexa	PCB-169	*	*	n NotF η	1.12	*	*	3010	2.5	90.2	*	0.995-1.005	
Hepta	PCB-188	*	*	n NotF η	1.58	*	*	1580	2.5	31.6	*	0.996-1.006	
Hepta	PCB-184	*	*	n NotF η	1.63	*	*	1580	2.5	30.7	*	1.006-1.016	
Hepta	PCB-179	2.27e+06	1.13	y 44:05	1.30	2940	*	2.5	*	*	1.029	1.024-1.034	
Hepta	PCB-176	7.02e+05	1.03	y 44:33	1.48	803	*	2.5	*	*	1.040	1.035-1.045	
Hepta	PCB-186	*	*	n NotF η	1.45	*	*	1580	2.5	34.4	*	1.050-1.060	
Hepta	PCB-178	7.94e+05	1.03	y 45:40	1.03	1300	*	2.5	*	*	1.066	1.061-1.071	
Hepta	PCB-175	1.47e+05	0.93	y 46:00	1.01	246	*	2.5	*	*	1.074	1.069-1.079	
Hepta	PCB-182/187	5.19e+06	1.08	y 46:10	1.25	7010	*	2.5	*	*	1.077	1.073-1.083	
Hepta	PCB-183	2.45e+06	0.97	y 46:30	1.21	3430	*	2.5	*	*	1.085	1.081-1.091	
Hepta	PCB-185	4.70e+05	1.12	y 47:10	1.80	589	*	2.5	*	*	0.955	0.951-0.961	
Hepta	PCB-174	4.10e+06	1.07	y 47:32	1.38	6720	*	2.5	*	*	0.963	0.958-0.968	
Hepta	PCB-181	*	*	n NotF η	1.38	*	*	1580	2.5	45.0	*	0.960-0.970	
Hepta	PCB-177	2.10e+06	1.02	y 47:48	1.26	3790	*	2.5	*	*	0.968	0.963-0.973	
Hepta	PCB-171	1.11e+06	1.07	y 48:06	1.58	1580	*	2.5	*	*	0.974	0.970-0.980	
Hepta	PCB-173	1.12e+05	1.03	y 48:32	1.11	229	*	2.5	*	*	0.983	0.978-0.988	
Hepta	PCB-172	6.37e+05	1.11	y 48:59	1.63	881	*	2.5	*	*	0.992	0.987-0.997	
Hepta	PCB-192	*	*	n NotF η	1.74	*	*	1580	2.5	35.7	*	0.991-1.001	
Hepta	PCB-180	8.91e+06	1.08	y 49:23	1.34	15000	*	2.5	*	*	1.000	0.995-1.005	

Analyst: Dms

Date: 2/24/15

Client ID: ST-CB-04A-20150210-S
Lab ID: 1500166-05@10X

Filename: 150219E2 S:11 Acq:20-FEB-15 00:48:35
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.453

ConCal: ST150219E2-1
EndCAL: NA

Type	Name	Resp	RA	RT	RRF	Conc	Qual	noise	Fac	DL	RRT	LCL	UCL
Hepta	PCB-193	5.39e+05	0.99	y 49:35	1.72	710		*	2.5	*	1.004	0.999-1.009	
Hepta	PCB-191	1.66e+05	1.36	n 49:50	1.69	222	R	*	2.5	*	1.009	1.004-1.014	
Hepta	PCB-170	3.28e+06	1.11	y 50:50	1.60	6500		*	2.5	*	1.000	0.995-1.005	
Hepta	PCB-190	7.92e+05	1.24	n 51:00	2.21	1140	R	*	2.5	*	1.003	0.998-1.008	
Hepta	PCB-189	1.35e+05	1.22	n 52:18	1.55	214	R	*	2.5	*	1.000	0.995-1.005	
Octa	PCB-202	3.17e+05	0.89	y 48:18	1.08	704		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-201	2.33e+05	1.00	y 48:47	1.15	487		*	2.5	*	1.010	1.005-1.015	
Octa	PCB-204	*	*	n NotF η	1.14	*		1380	2.5	71.5	*	1.008-1.018	
Octa	PCB-197	6.39e+04	1.19	n 49:15	1.07	143	R	*	2.5	*	1.020	1.015-1.025	
Octa	PCB-200	1.98e+05	0.91	y 50:06	1.06	447		*	2.5	*	1.038	1.032-1.044	
Octa	PCB-198	7.15e+04	0.97	y 51:25	0.76	228		*	2.5	*	1.065	1.059-1.069	
Octa	PCB-199	1.12e+06	0.87	y 51:30	0.80	3380		*	2.5	*	1.067	1.061-1.071	
Octa	PCB-196/203	1.24e+06	0.99	y 51:47	0.80	3710		*	2.5	*	1.072	1.066-1.076	
Octa	PCB-195	6.81e+05	0.94	y 52:57	1.23	1280		*	2.5	*	0.984	0.979-0.989	
Octa	PCB-194	1.55e+06	0.92	y 53:50	1.21	2950		*	2.5	*	1.000	0.995-1.005	
Octa	PCB-205	9.49e+04	0.89	y 54:07	1.54	142		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-208	2.39e+05	1.51	y 53:05	0.93	366		*	2.5	*	1.000	0.995-1.005	
Nona	PCB-207	1.47e+05	1.48	y 53:24	1.08	194		*	2.5	*	1.006	1.001-1.011	
Nona	PCB-206	6.29e+05	1.34	y 55:31	1.02	1400		*	2.5	*	1.000	0.995-1.005	
Deca	PCB-209	2.93e+05	1.08	y 56:52	1.17	554		*	2.5	*	1.000	0.995-1.005	

Analyst: PM5

Date: 2/24/15

Client ID: ST-CB-04A-20150210-S
Lab ID: 1500166-05@10X

Filename: 150219E2 S:11 Acq:20-FEB-15 00:48:35
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 2.4530 EndCAL: NA

ConCal: ST150219E2-1

Name	Resp	RA	RT	RRF	Conc	
Total Mono-PCB	4.57e+06	3.05 y	16:09	1.27	3398.68	
Total Di-PCB	1.57e+07	1.61 y	20:05	1.21	7387.61	
Total Tri-PCB	4.19e+06	1.14 y	24:13	1.10	3811.00	
Total Tri-PCB	6.82e+06	0.99 y	28:27	1.21	4825.74	Sum:8636.74
Total Tetra-PCB	5.07e+07	0.77 y	29:46	1.09	51438.7	
Total Penta-PCB	1.05e+08	1.46 y	33:54	1.18	154257	
Total Penta-PCB	1.22e+07	1.56 y	42:13	1.25	9364.24	Sum:163621
Total Hexa-PCB	1.28e+07	1.31 y	39:33	0.90	37291.2	
Total Hexa-PCB	8.73e+07	1.17 y	42:08	1.11	86658.5	Sum:123950
Total Hepta-PCB	3.28e+07	1.13 y	44:05	1.42	51706.7	
Total Octa-PCB	3.18e+06	0.89 y	48:18	0.96	8956.45	
Total Octa-PCB	2.33e+06	0.94 y	52:57	1.33	4366.93	Sum:13323.4
Total Nona-PCB	1.02e+06	1.51 y	53:05	1.01	1956.87	
Total Deca-PCB	2.93e+05	1.08 y	56:52	1.17	553.912	

Total PCB Conc:428337.924868

426 000

Integrations

by
Analyst: DMS

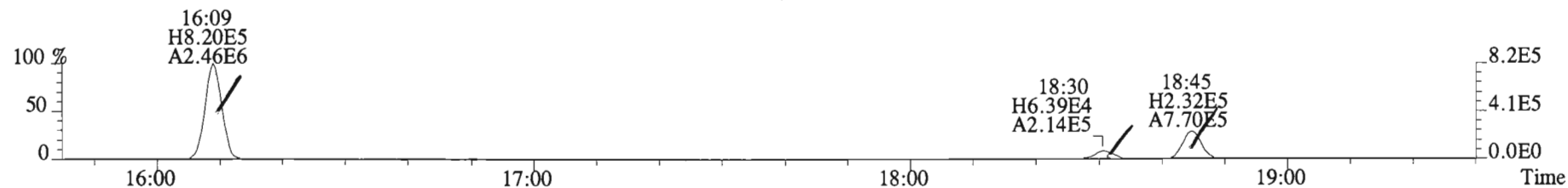
Date: 2/24/15

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	8.69e+06	3.33 y	0.87	16:08	0.623	0.629-0.635		4120	50.6											
13C-PCB-3	9.41e+06	3.41 y	0.91	18:44	0.723	0.725-0.733		4270	52.4		13C-PCB-79	9.21e+06	0.79 y	1.02	37:48	1.029	1.023-1.034		7360	90.3
13C-PCB-4	9.51e+06	1.67 y	0.59	20:03	0.774	0.775-0.783		6710	82.3		13C-PCB-178	3.30e+06	0.46 y	0.61	45:39	0.985	0.979-0.990		6350	77.9
13C-PCB-9	1.46e+07	1.60 y	0.90	21:50	0.842	0.842-0.850		6740	82.7											
13C-PCB-11	1.58e+07	1.63 y	0.94	25:13	0.973	0.968-0.978		6960	85.4											
13C-PCB-19	6.72e+06	1.13 y	0.53	24:11	0.933	0.930-0.940		5230	64.1											
13C-PCB-28	8.99e+06	1.04 y	0.93	29:03	1.003	0.999-1.009		7120	87.4		13C-PCB-79	9.21e+06	0.79 y	1.10	37:48	0.968	0.964-0.974		8490	104
13C-PCB-32	1.04e+07	1.09 y	0.80	27:06	1.046	1.040-1.050		5420	66.4		13C-PCB-178	3.30e+06	0.46 y	0.90	45:39	0.924	0.920-0.930		8310	102
13C-PCB-37	7.63e+06	1.12 y	0.84	32:56	1.138	1.131-1.143		6720	82.4											
13C-PCB-47	6.88e+06	0.79 y	0.81	31:59	0.871	0.866-0.874		6880	84.4											
13C-PCB-52	6.90e+06	0.73 y	0.77	31:28	0.857	0.853-0.861		7270	89.1											
13C-PCB-54	8.37e+06	0.80 y	0.97	27:56	0.760	0.758-0.766		7010	86.0											
13C-PCB-70	8.53e+06	0.76 y	1.00	35:29	0.966	0.961-0.971		6940	85.1											
13C-PCB-77	7.68e+06	0.78 y	0.94	39:38	1.079	1.073-1.083		6620	81.2											
13C-PCB-80	8.48e+06	0.76 y	1.03	35:55	0.978	0.972-0.982		6680	81.9											
13C-PCB-81	8.02e+06	0.76 y	0.92	39:02	1.063	1.057-1.067		7070	86.7											
13C-PCB-95	4.21e+06	1.56 y	0.74	35:48	0.913	0.908-0.918		7270	89.2											
13C-PCB-97	4.15e+06	1.58 y	0.70	38:47	0.989	0.984-0.994		7530	92.3											
13C-PCB-101	4.46e+06	1.57 y	0.78	37:29	0.956	0.951-0.961		7280	89.3											
13C-PCB-104	5.46e+06	1.59 y	1.00	32:38	0.832	0.828-0.836		6970	85.5		13C-PCB-15	1.97e+07	1.61 y	1.00	25:55				8150	
13C-PCB-105	8.20e+06	1.60 y	1.37	43:04	0.929	0.924-0.934		7090	87.0		13C-PCB-31	1.10e+07	1.01 y	1.00	28:57				8150	
13C-PCB-114	8.84e+06	1.58 y	1.36	42:12	0.910	0.905-0.915		7660	93.9		13C-PCB-60	1.00e+07	0.75 y	1.00	36:44				8150	
13C-PCB-118	5.13e+06	1.75 y	0.96	41:33	1.059	1.054-1.064		6840	83.9		13C-PCB-111	6.37e+06	1.65 y	1.00	39:13				8150	
13C-PCB-123	5.01e+06	1.78 y	0.89	41:22	1.055	1.050-1.060		7170	87.9		13C-PCB-128	6.90e+06	1.30 y	1.00	46:22				8150	
13C-PCB-126	7.19e+06	1.59 y	1.31	45:19	0.977	0.972-0.982		6490	79.6		13C-PCB-205	5.07e+06	0.94 y	1.00	54:07				8150	
13C-PCB-127	8.57e+06	1.49 y	1.47	43:25	0.936	0.931-0.941		6870	84.3											
13C-PCB-138	6.50e+06	1.25 y	1.10	44:48	0.966	0.961-0.971		6980	85.6											
13C-PCB-141	6.70e+06	1.24 y	1.07	43:58	0.948	0.943-0.953		7370	90.4											
13C-PCB-153	7.11e+06	1.29 y	1.15	43:13	0.932	0.927-0.937		7320	89.8											
13C-PCB-155	3.52e+06	1.30 y	0.84	37:01	0.944	0.939-0.949		5360	65.7											
13C-PCB-156	7.43e+06	1.29 y	1.30	48:06	1.037	1.032-1.042		6770	83.0											
13C-PCB-157	7.82e+06	1.30 y	1.36	48:22	1.043	1.038-1.048		6800	83.4											
13C-PCB-159	7.37e+06	1.24 y	1.25	46:06	0.994	0.989-0.999		6980	85.6											
13C-PCB-167	7.78e+06	1.23 y	1.35	46:47	1.009	1.004-1.014		6800	83.4											
13C-PCB-169	6.53e+06	1.20 y	1.29	50:29	1.089	1.083-1.093		6000	73.6											
13C-PCB-170	2.57e+06	0.43 y	0.54	50:50	1.096	1.089-1.101		5600	68.7											
13C-PCB-180	3.61e+06	0.45 y	0.68	49:23	1.065	1.060-1.070		6230	76.4											
13C-PCB-188	4.82e+06	0.45 y	0.92	42:51	0.924	0.919-0.929		6210	76.2											
13C-PCB-189	3.33e+06	0.47 y	0.72	52:18	1.128	1.120-1.132		5490	67.3											
13C-PCB-194	3.55e+06	0.91 y	0.80	53:49	0.994	0.990-1.000		7140	87.6											
13C-PCB-202	3.39e+06	0.87 y	0.84	48:17	1.041	1.036-1.046		4780	58.6											
13C-PCB-206	3.58e+06	0.81 y	0.65	55:30	1.026	1.021-1.031		8860	109											
13C-PCB-208	5.73e+06	0.80 y	1.08	53:05	0.981	0.976-0.986		8520	105											
13C-PCB-209	3.68e+06	1.21 y	0.61	56:52	1.051	1.045-1.055		9700	119											

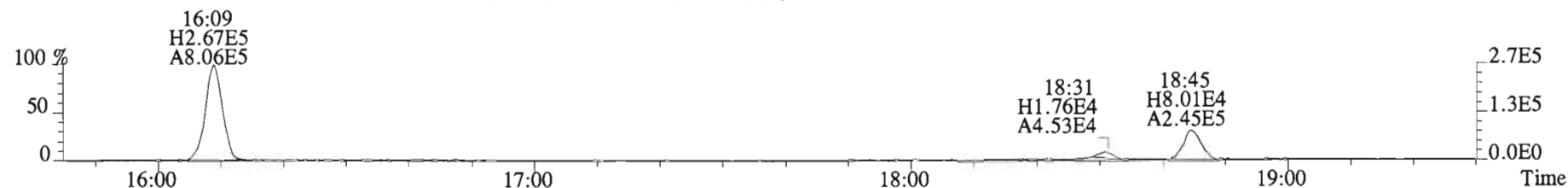
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Date: 2/21/15

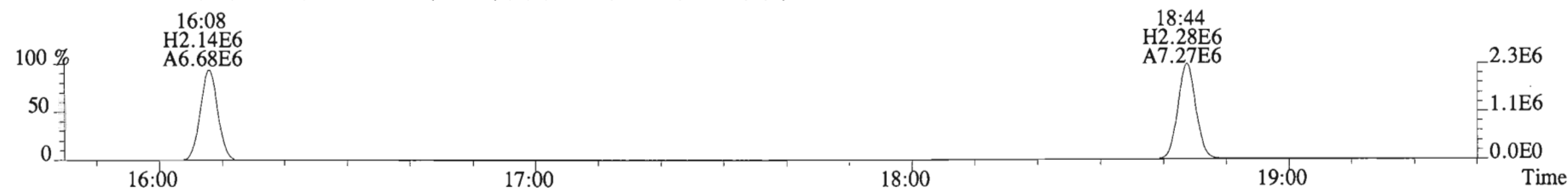
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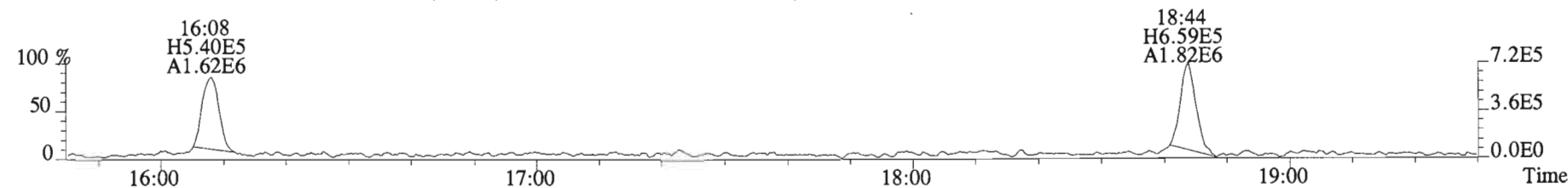
190.0363 S:11 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2416.0,0.00%,F,F)



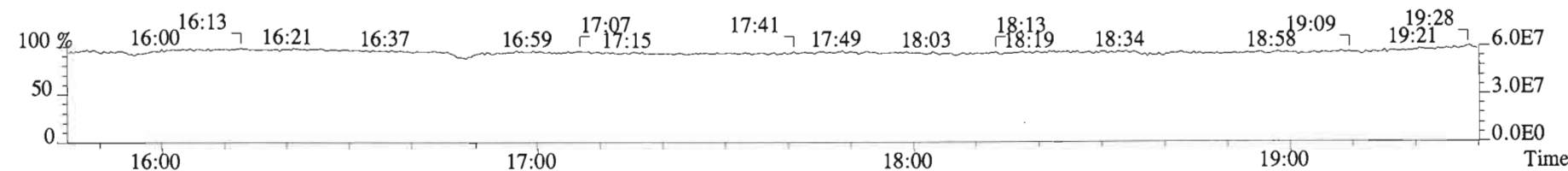
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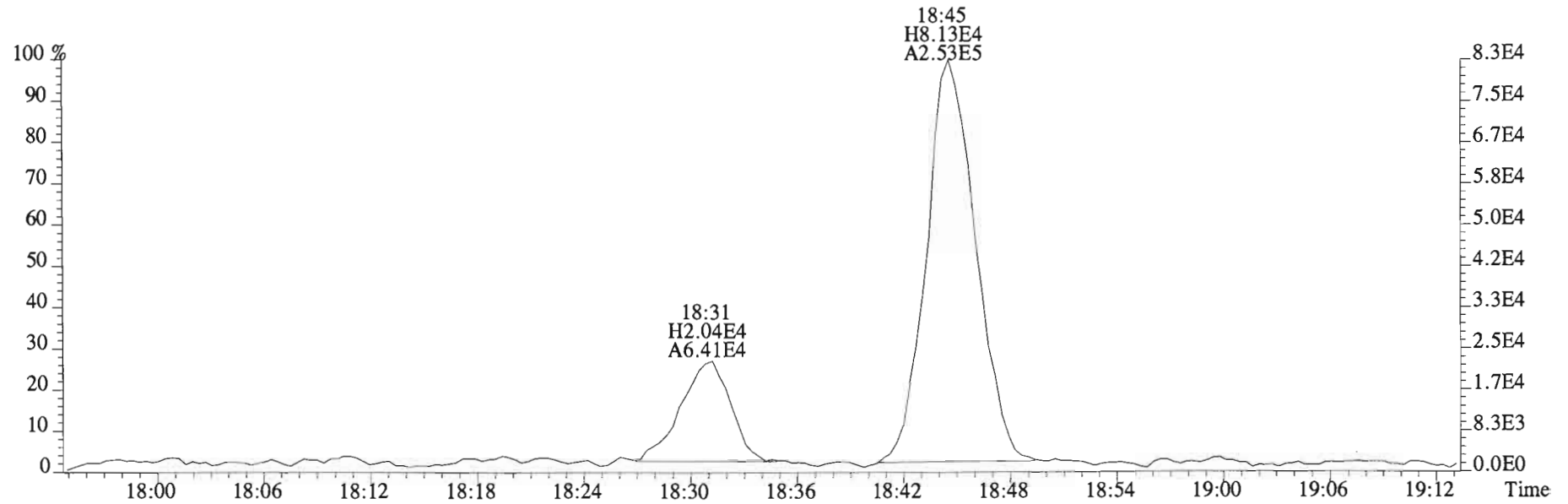
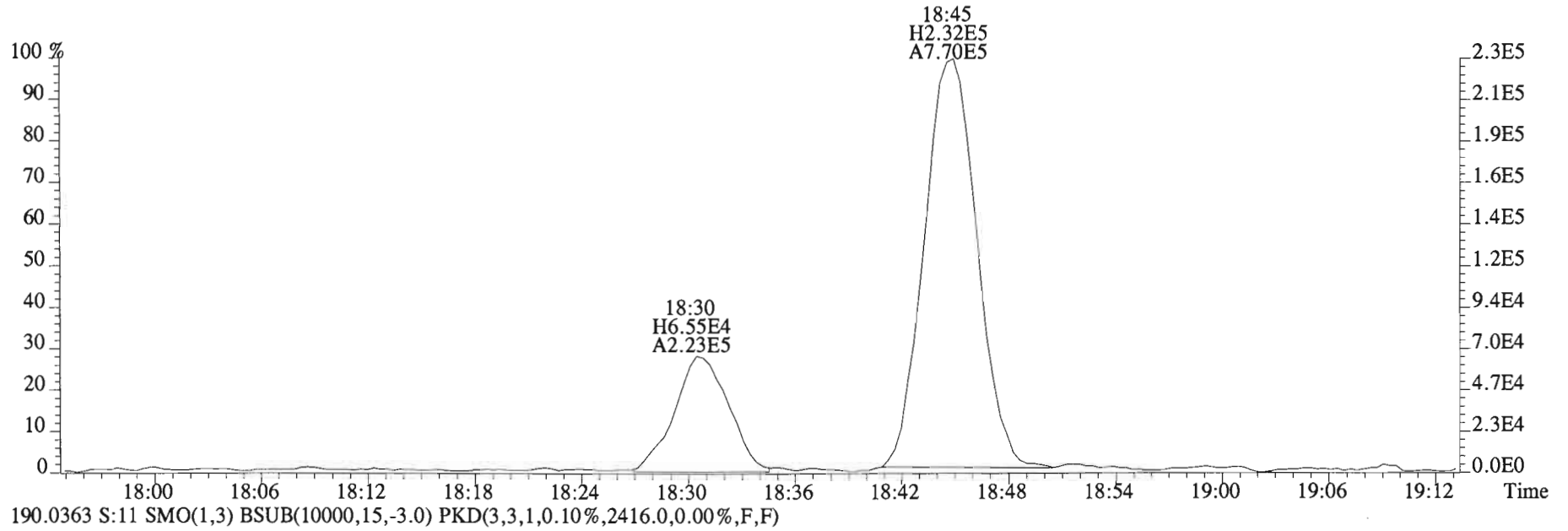
202.0766 S:11 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,45844.0,0.00%,F,F)



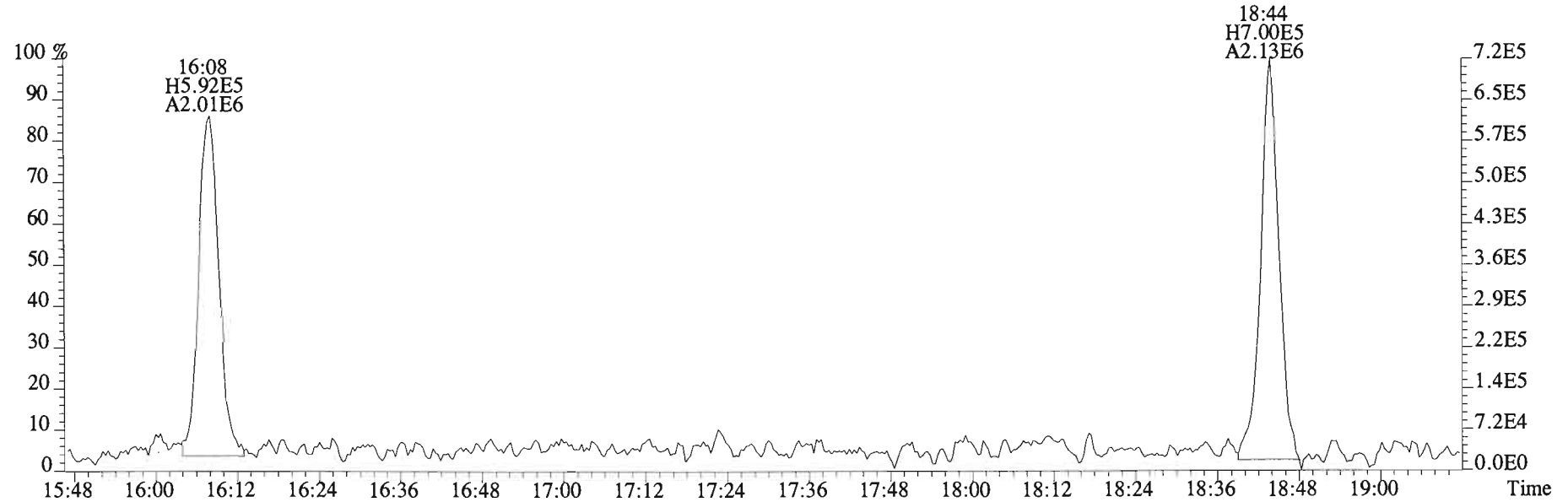
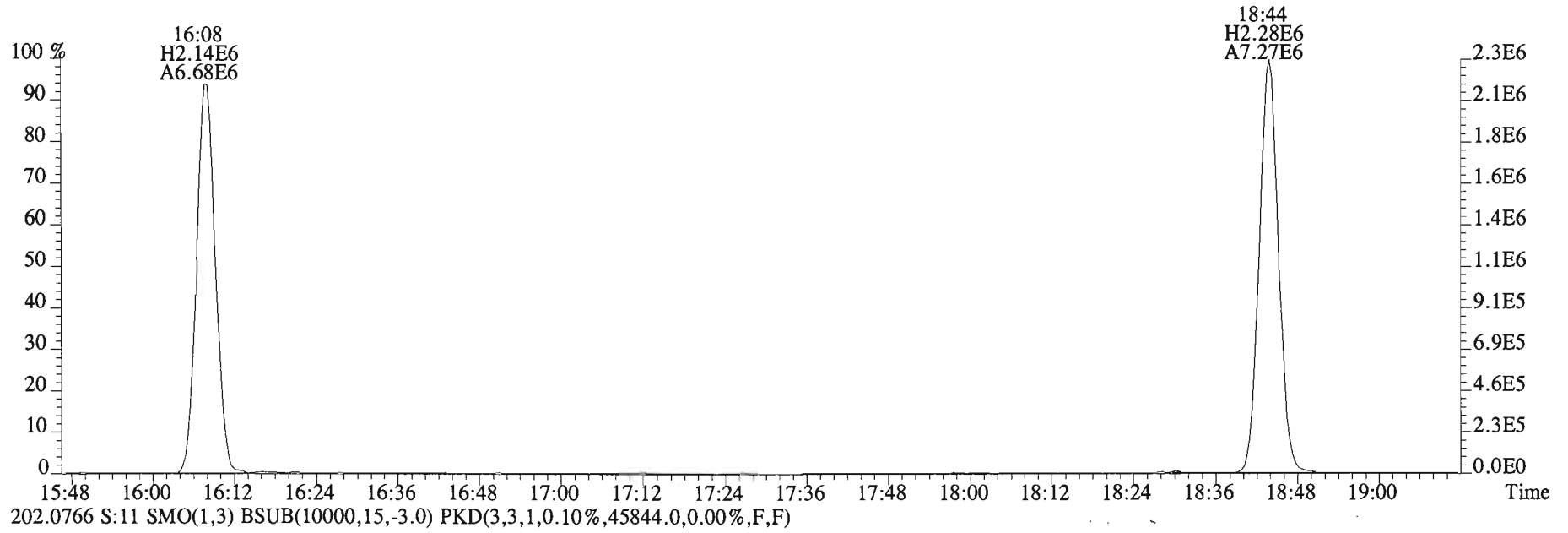
180.9880 S:11



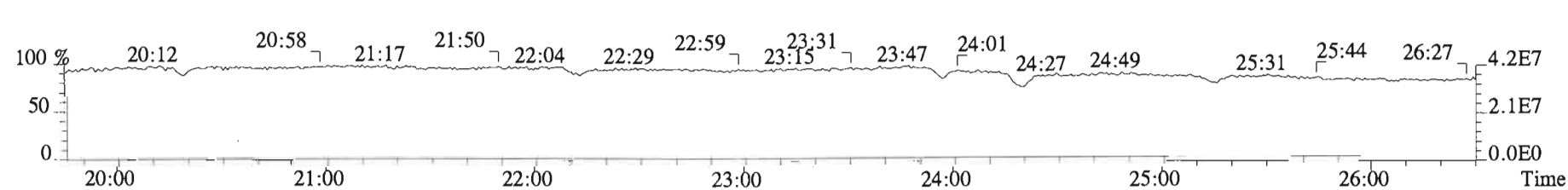
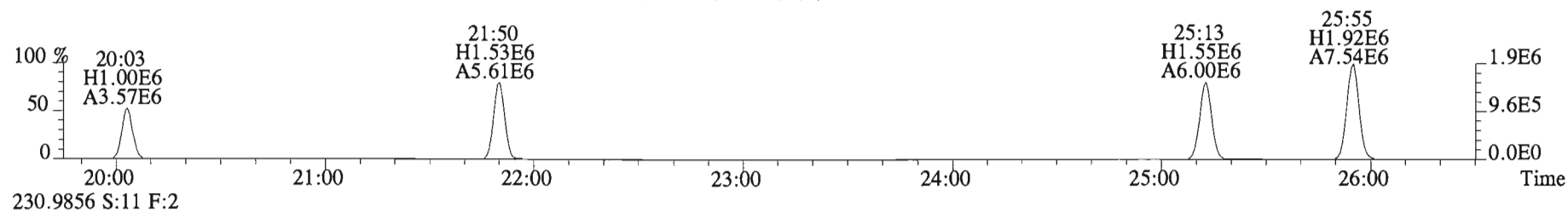
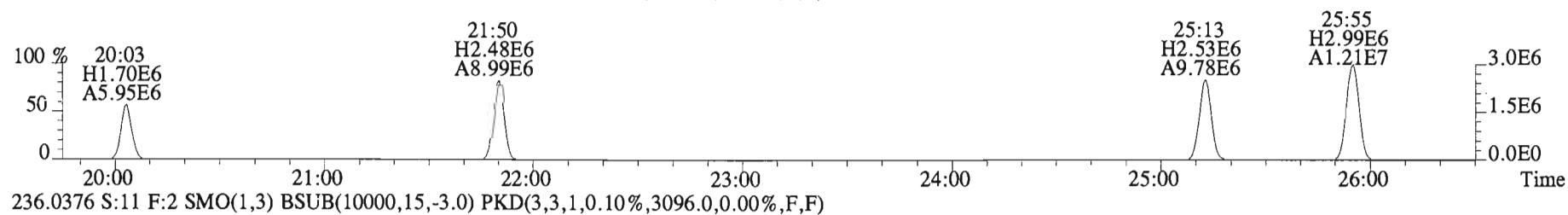
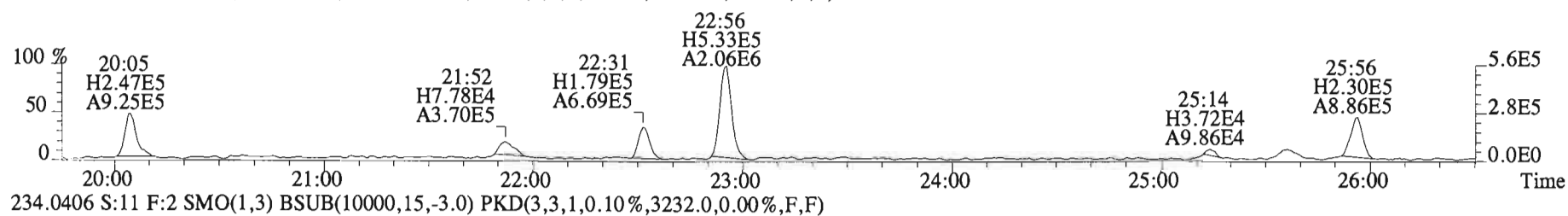
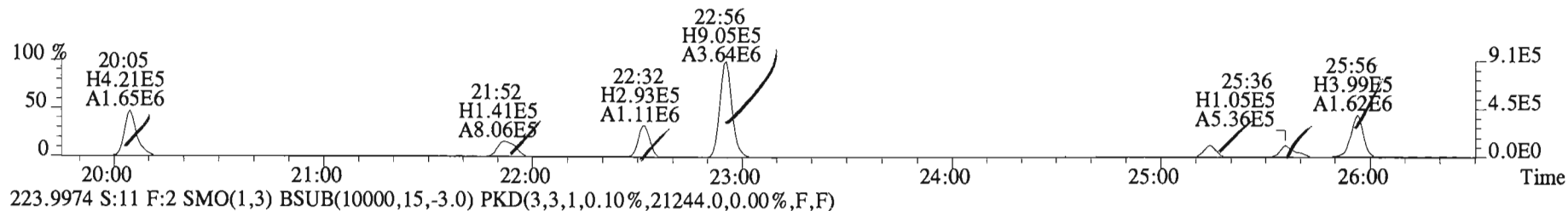
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
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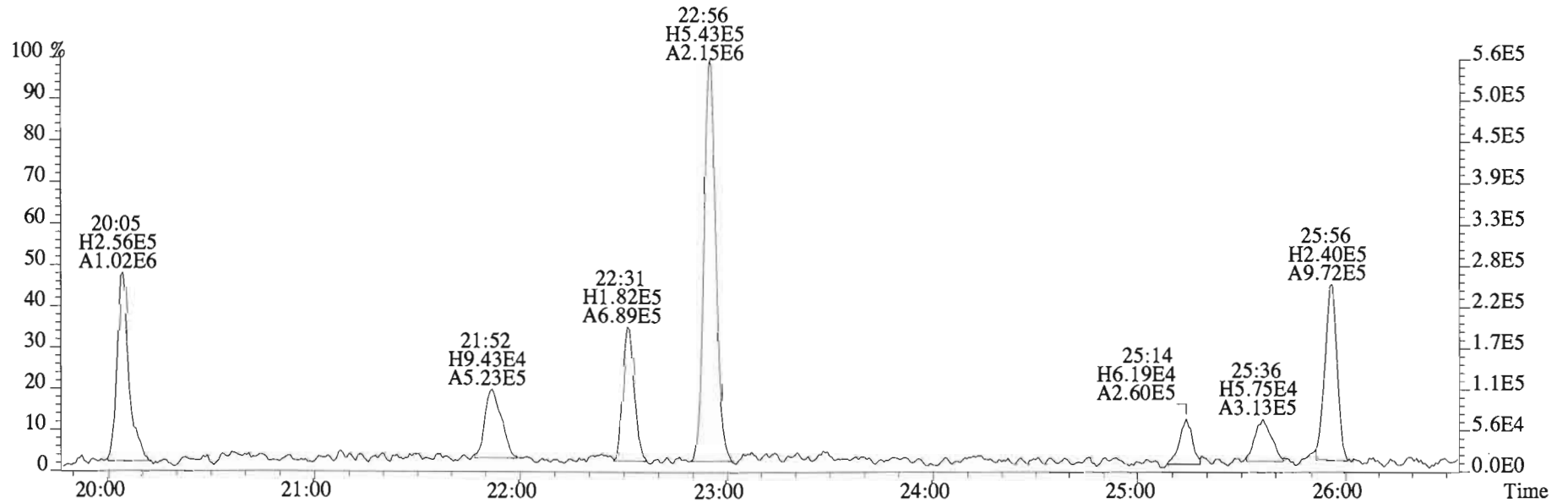
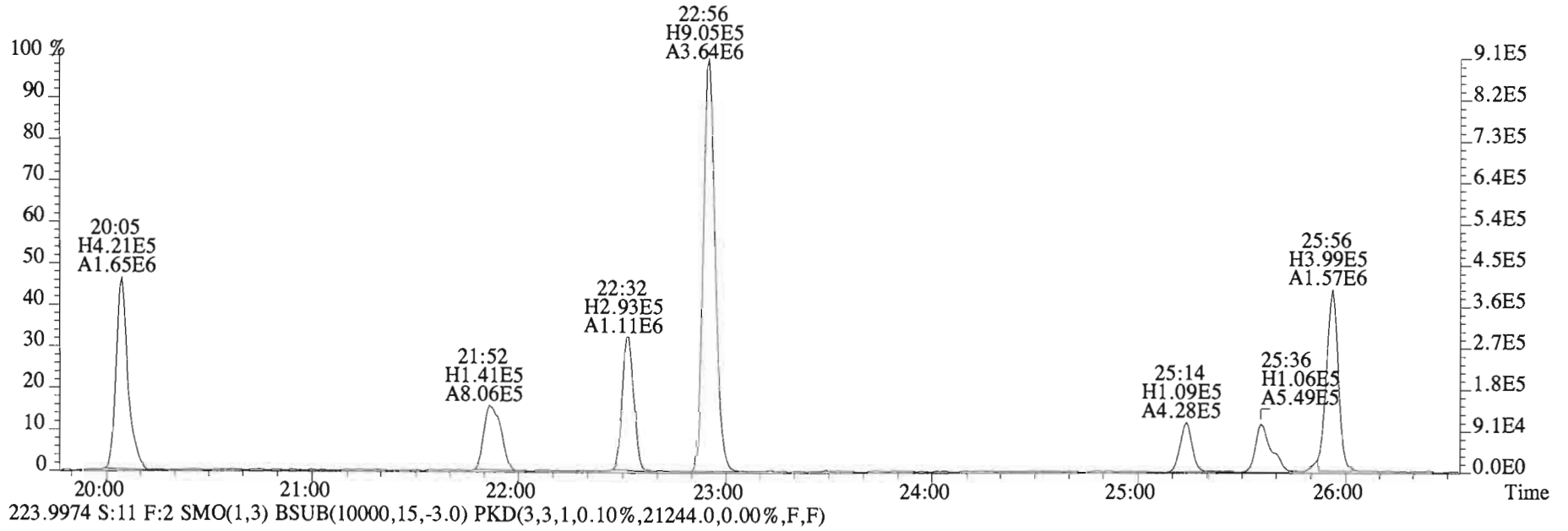
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
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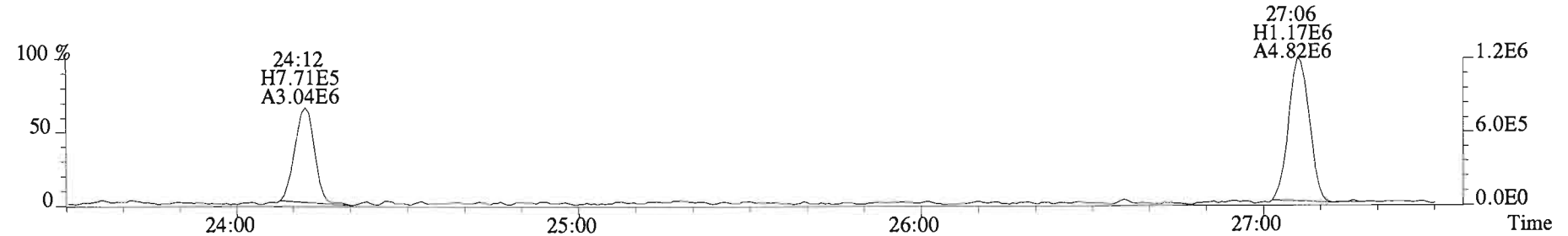
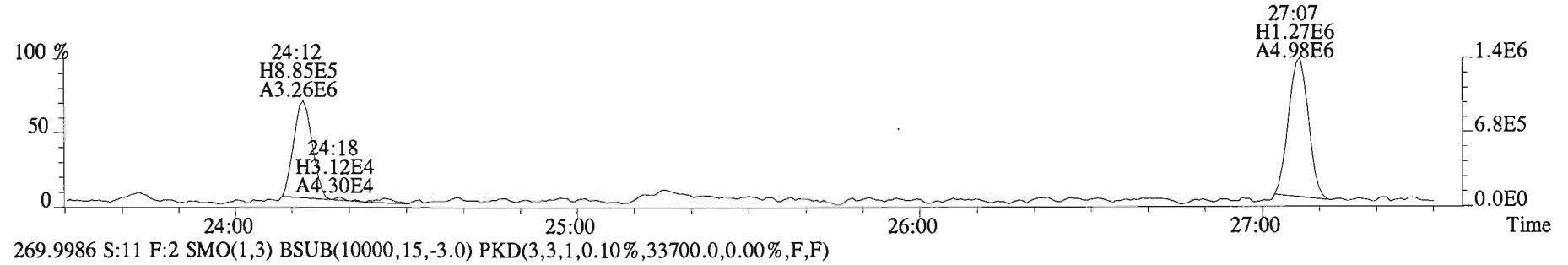
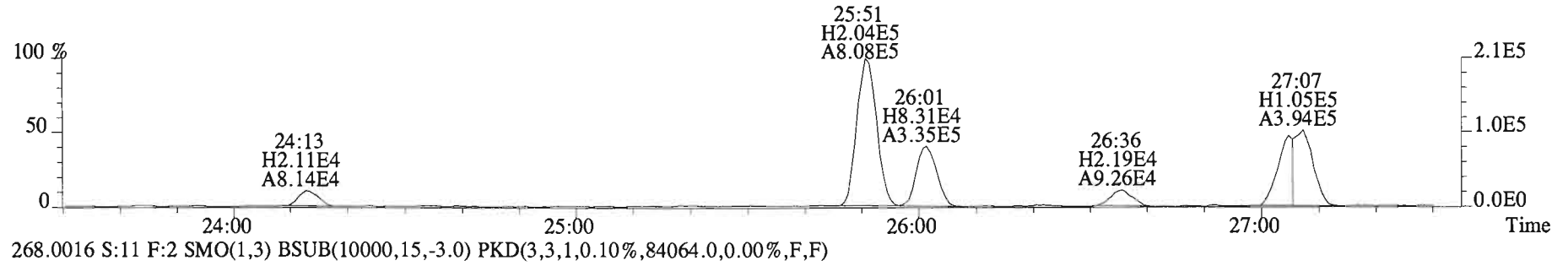
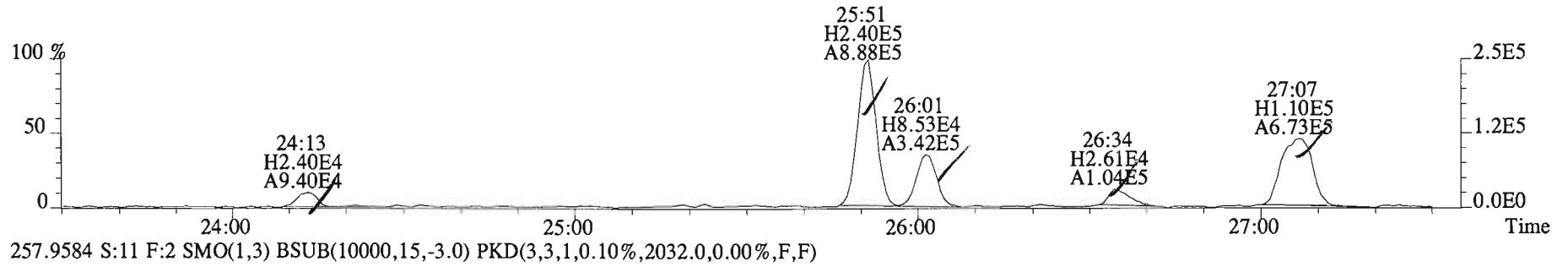
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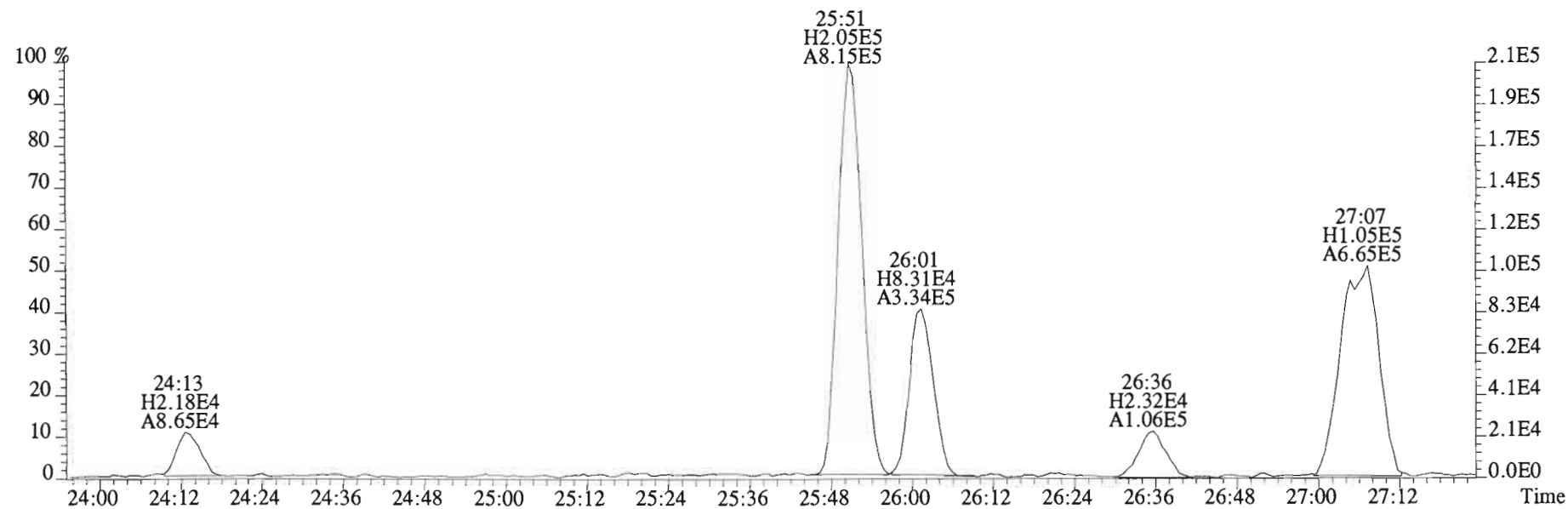
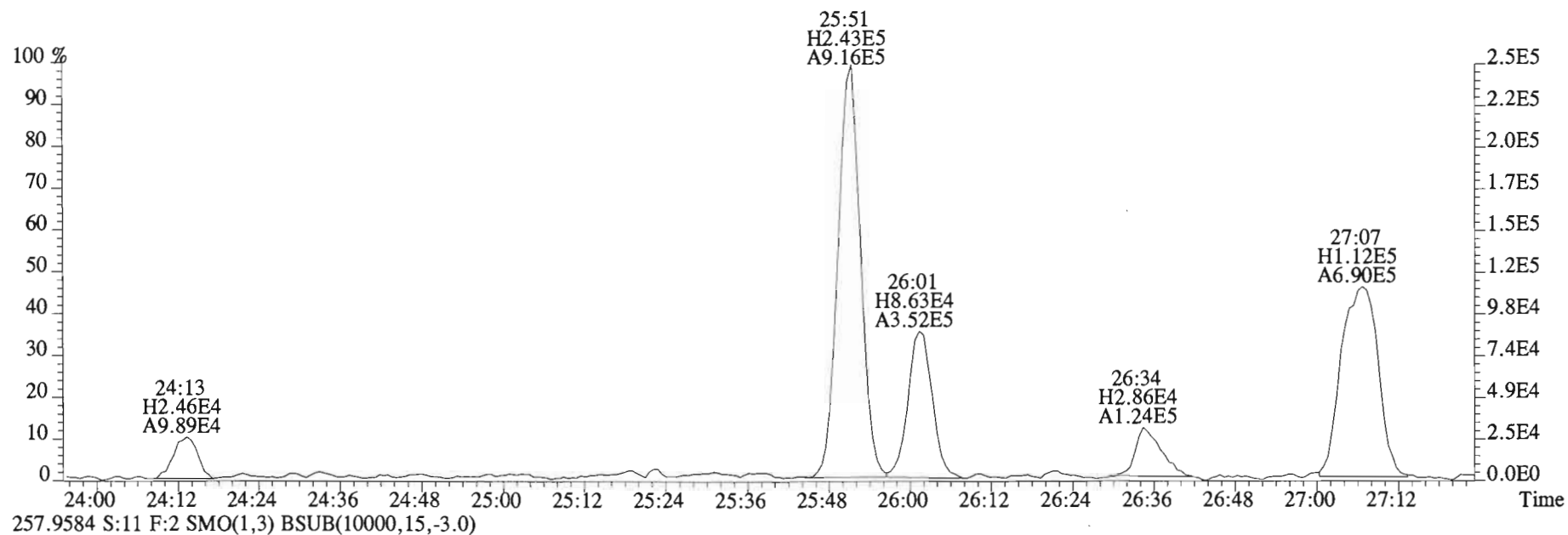
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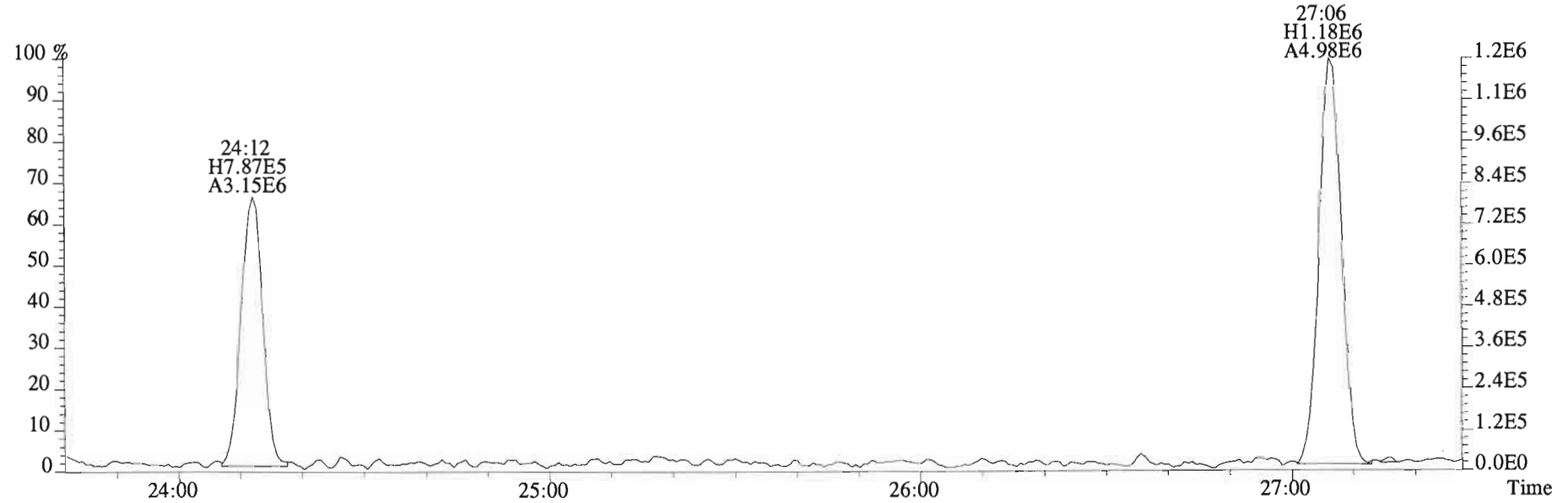
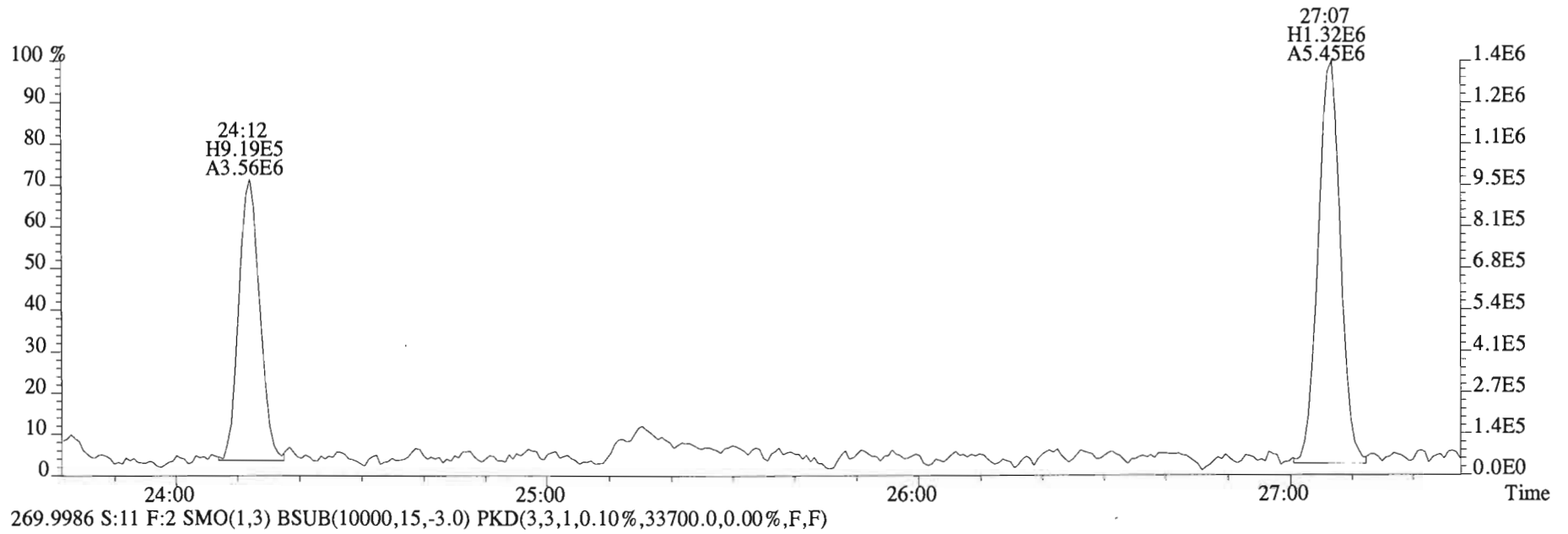
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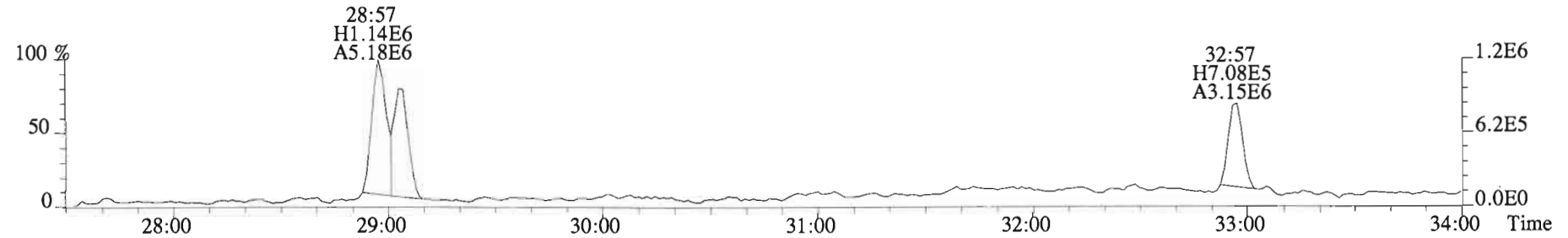
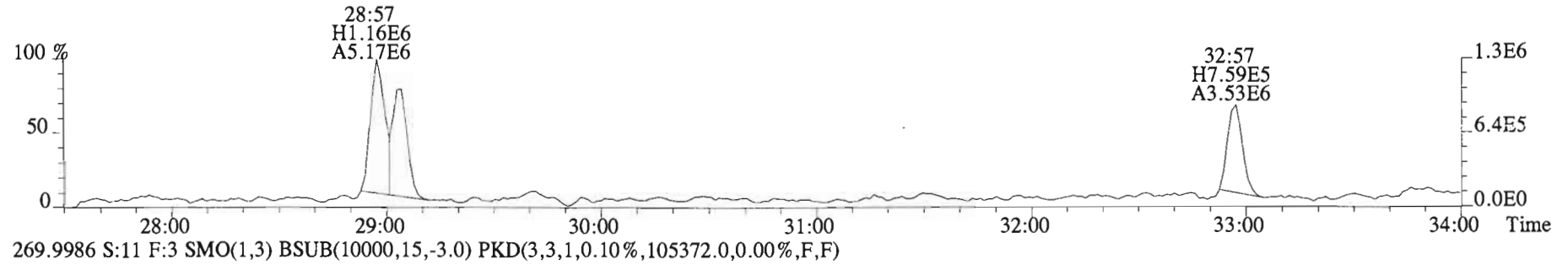
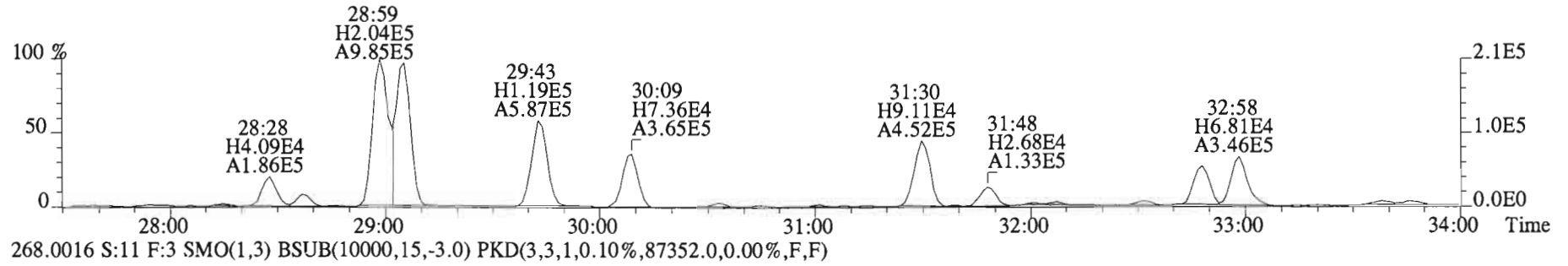
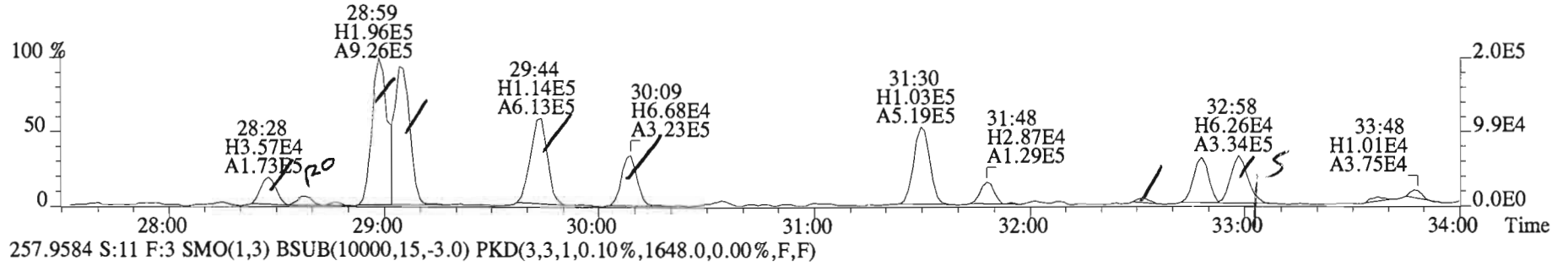
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255.9613 S:11 F:2 SMO(1,3) BSUB(10000,15,-3.0)



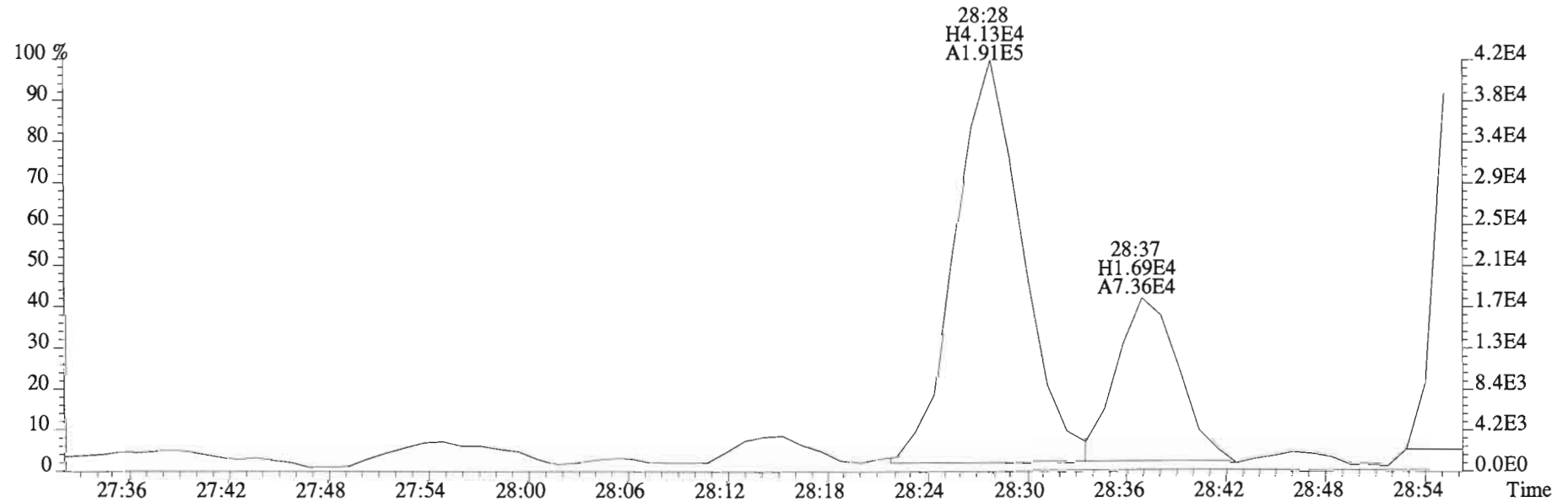
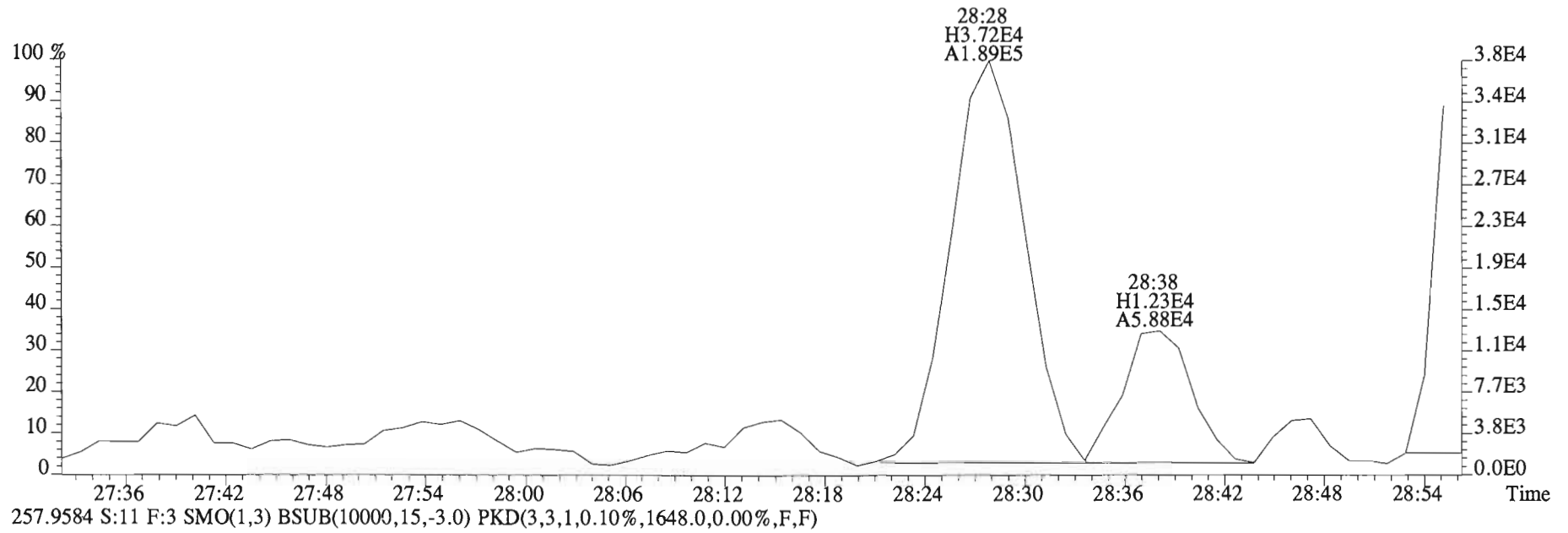
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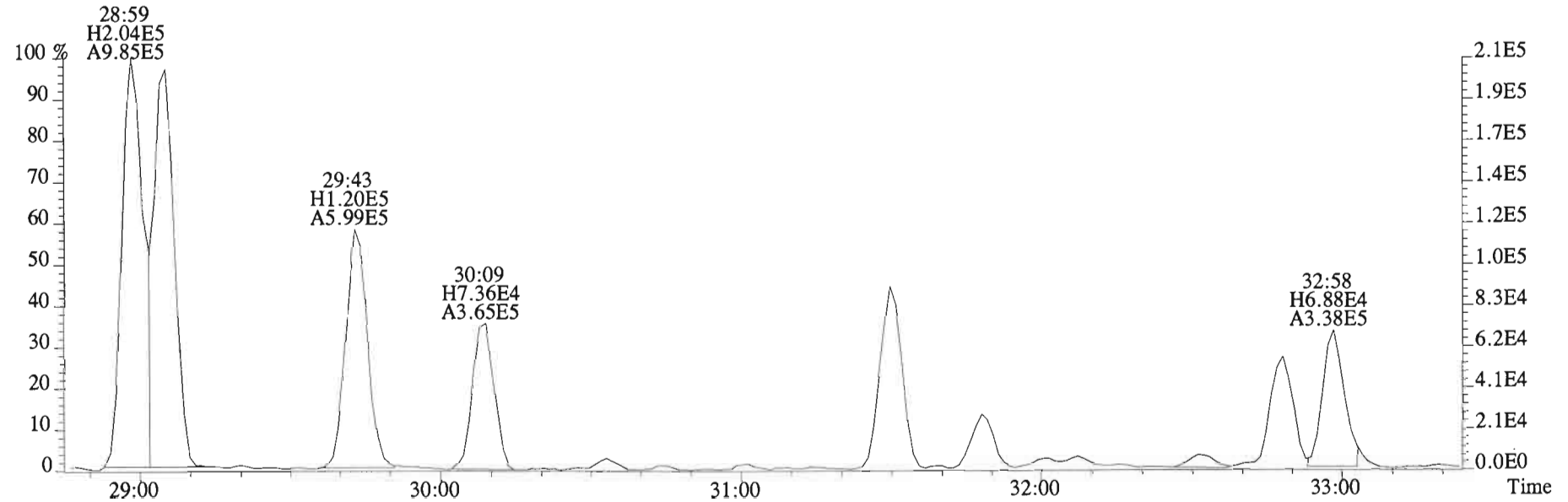
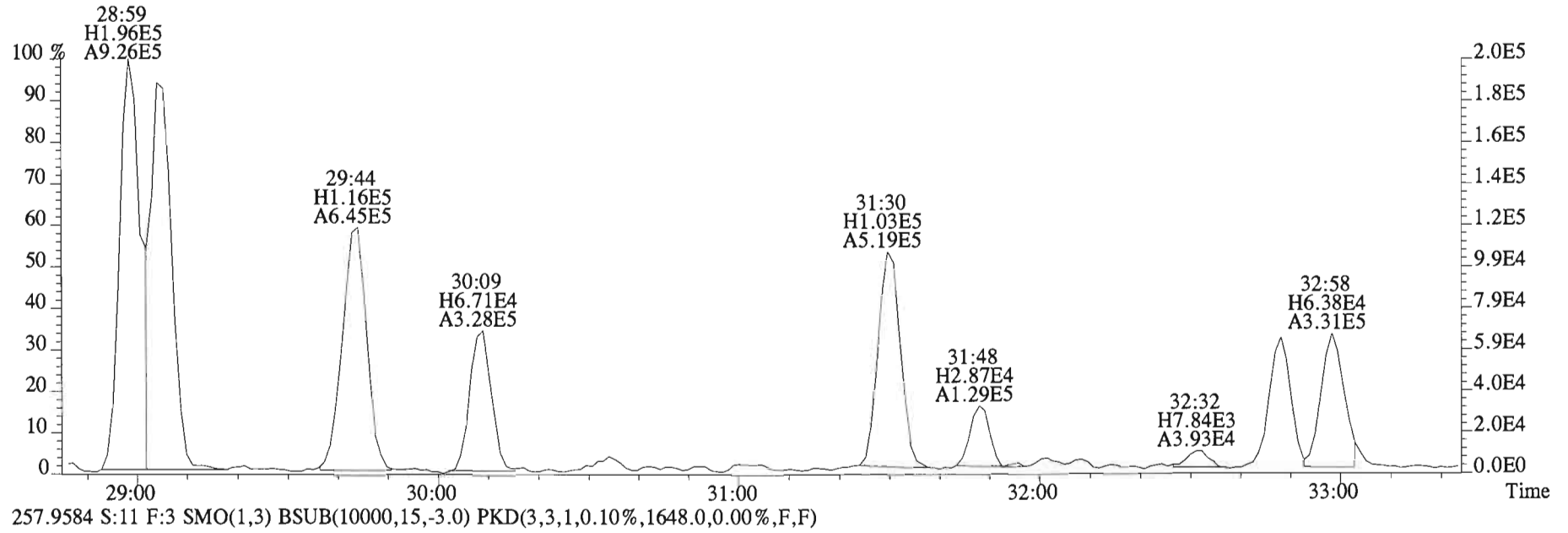
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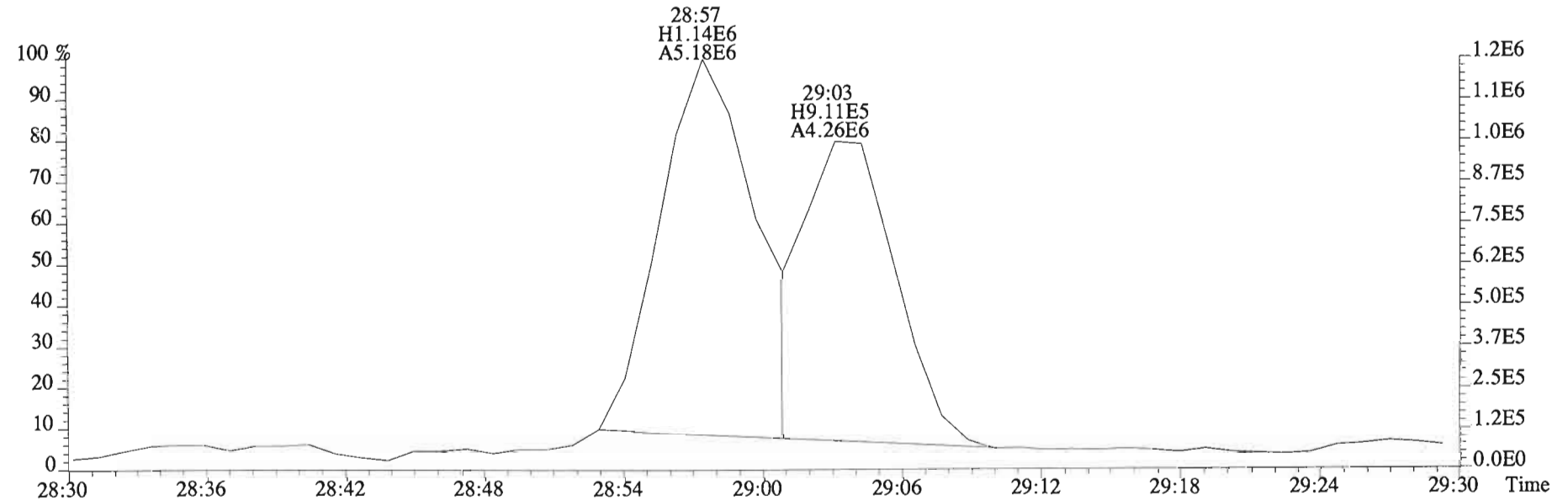
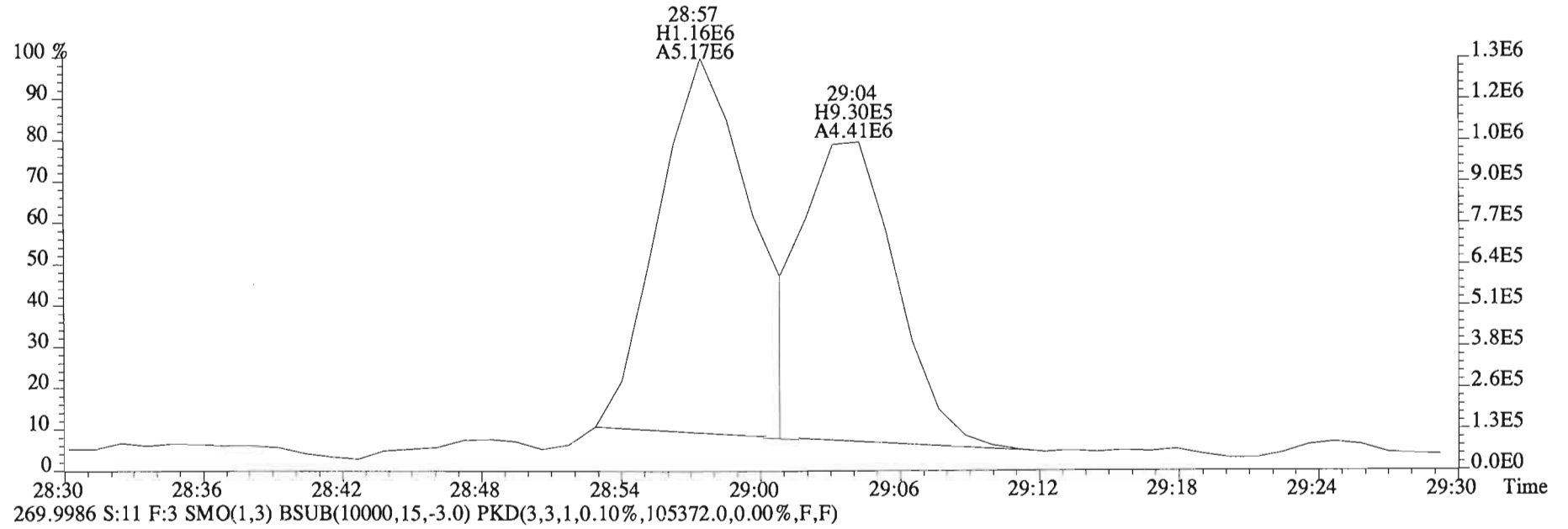
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
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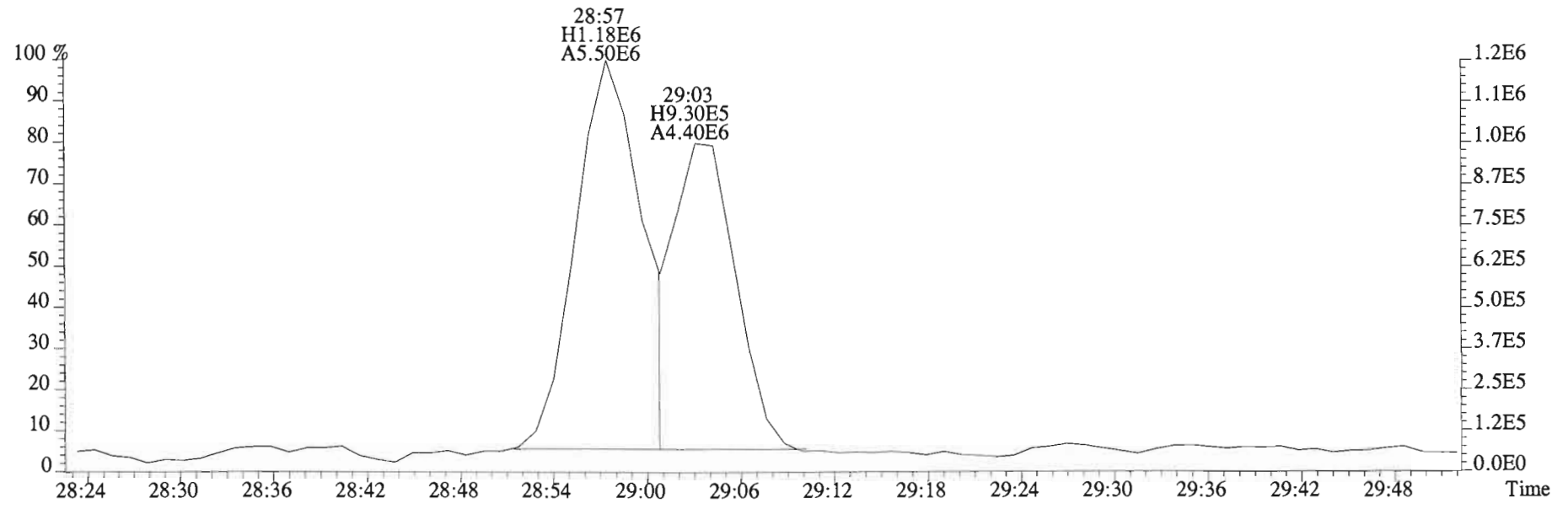
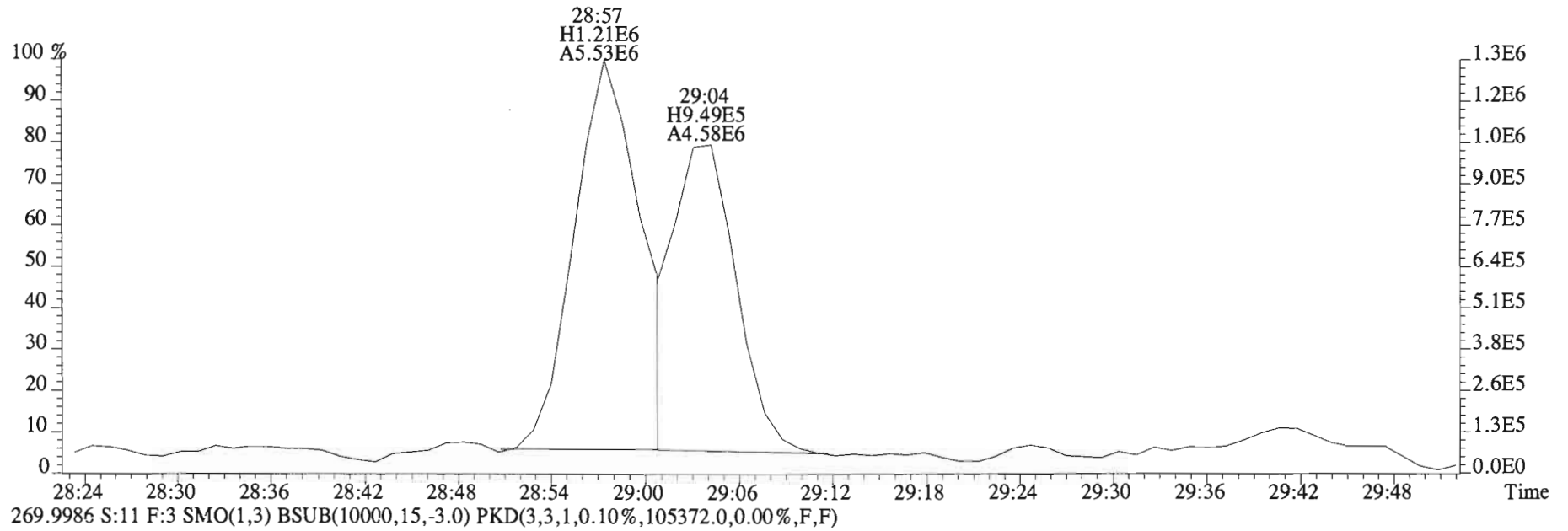
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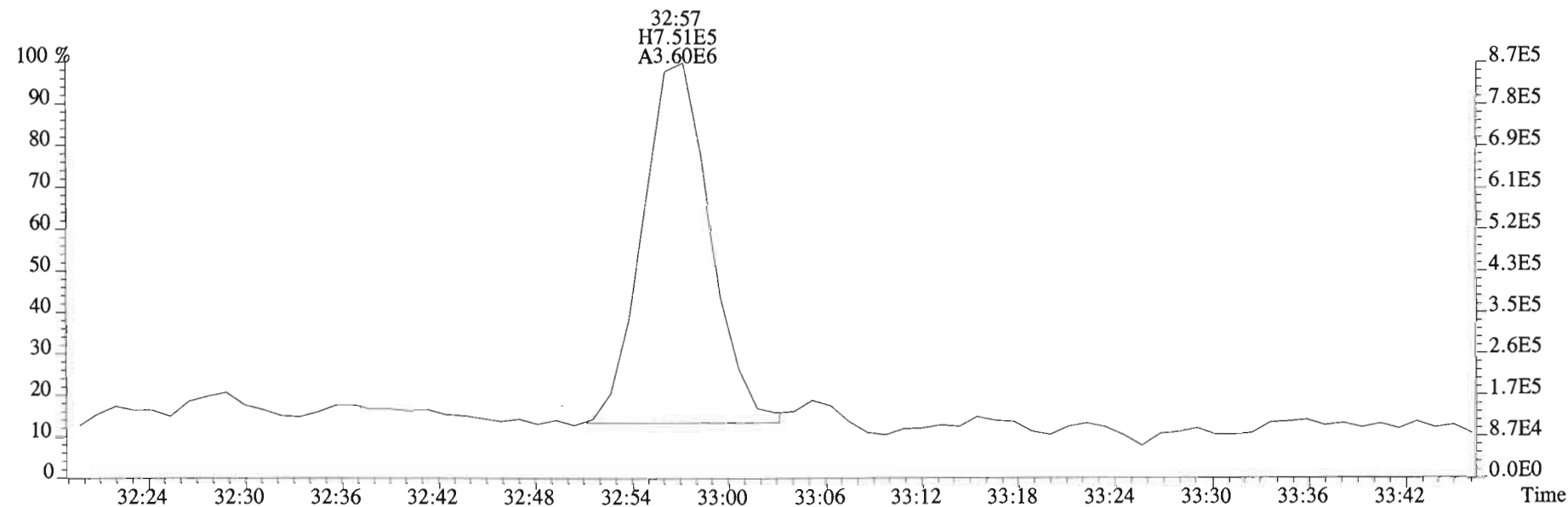
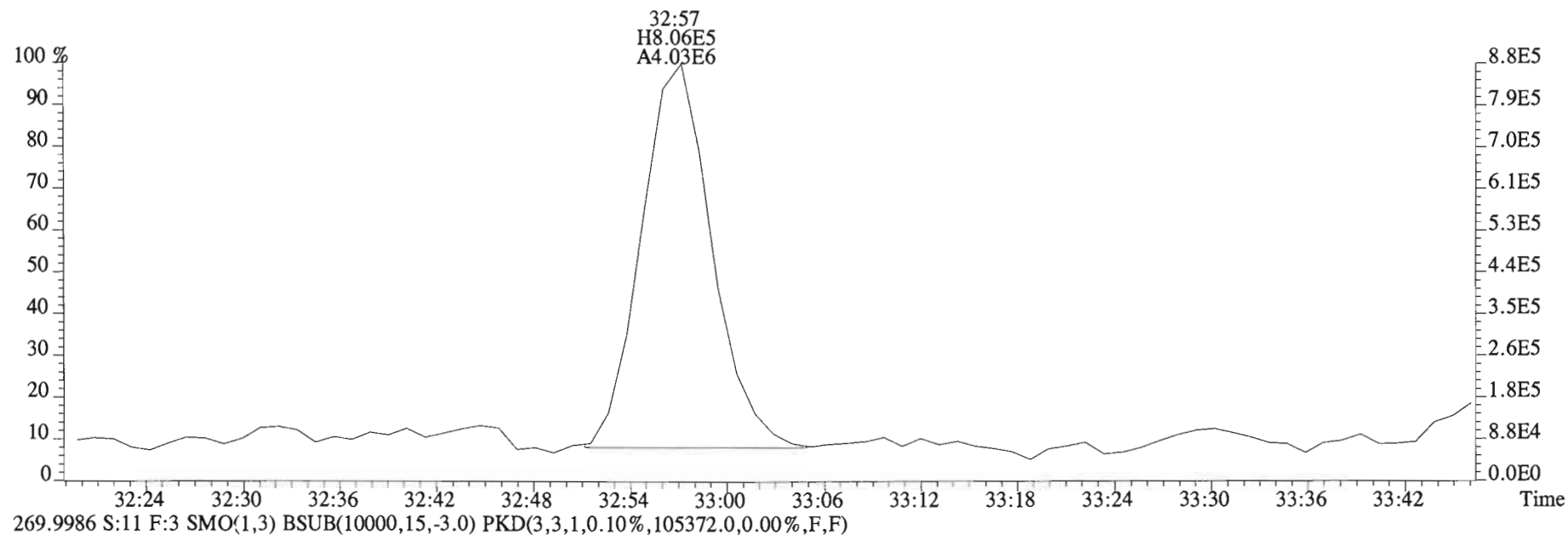
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Sample#11 File Text: Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
268.0016 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,87352.0,0.00%,F,F)



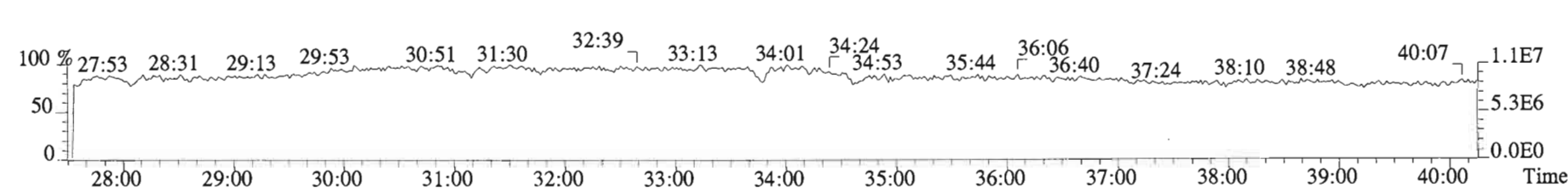
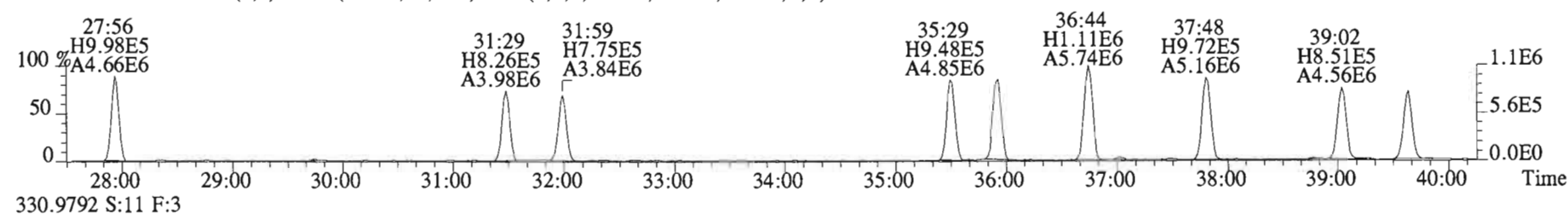
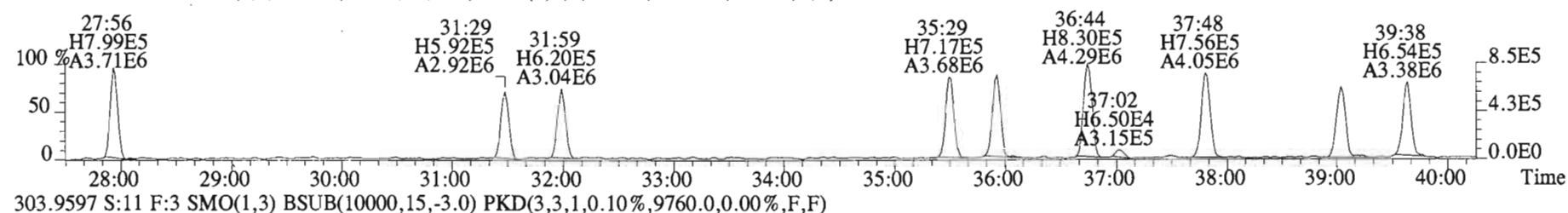
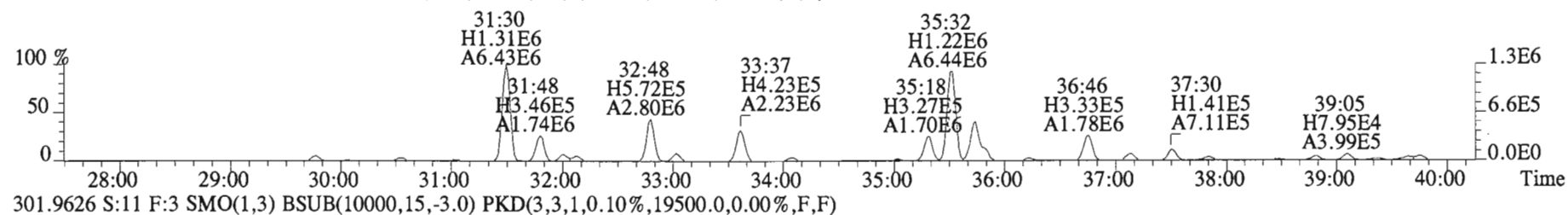
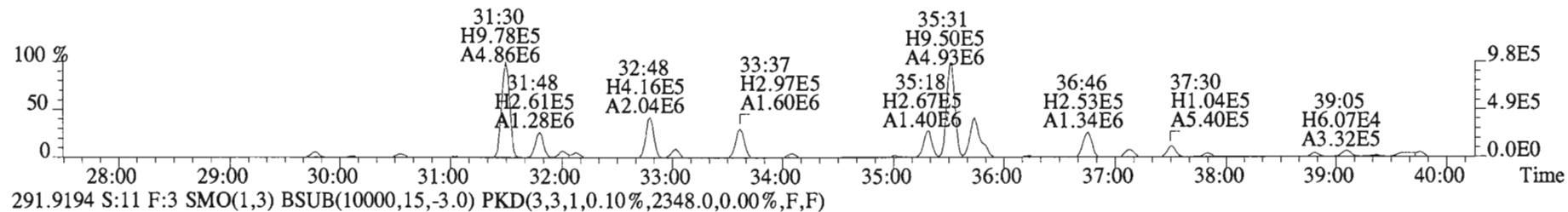
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
268.0016 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,87352.0,0.00%,F,F)



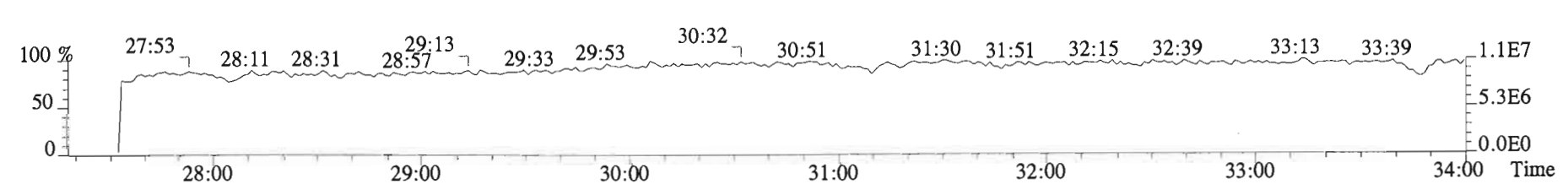
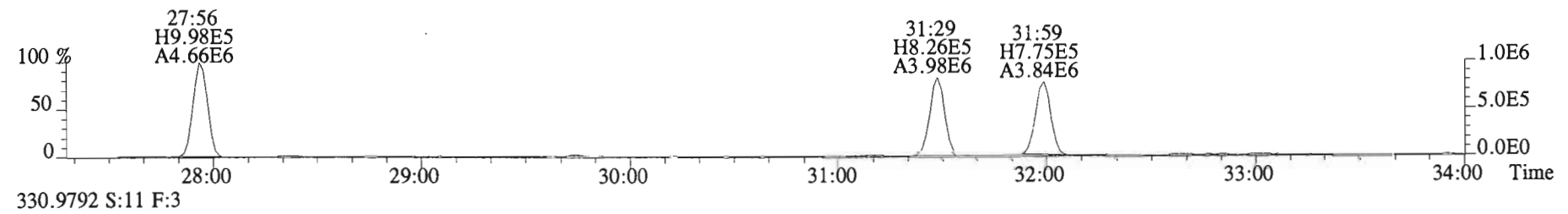
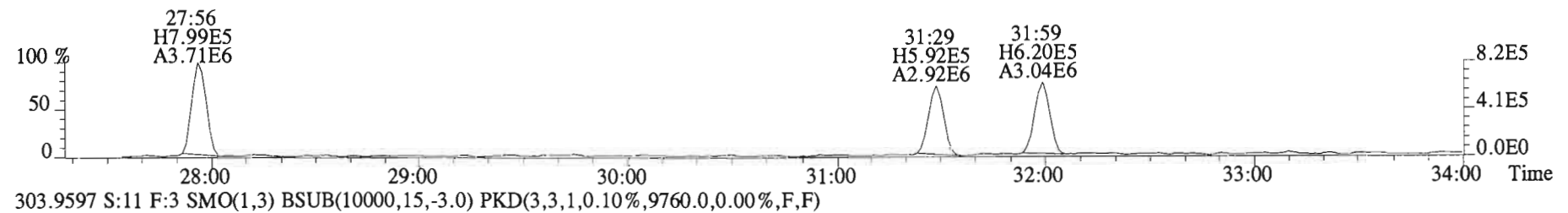
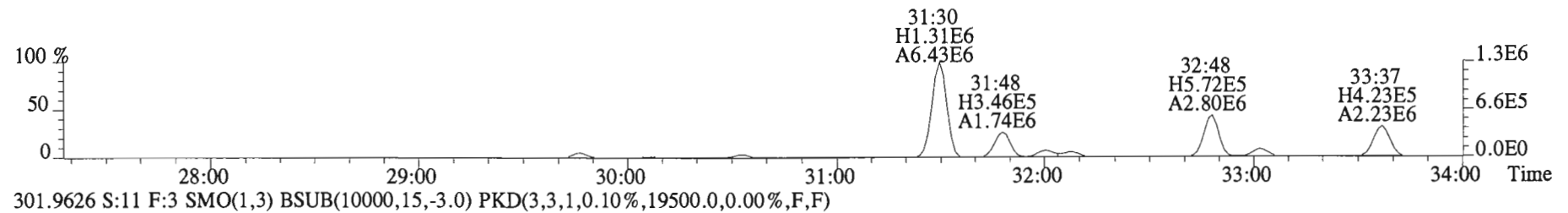
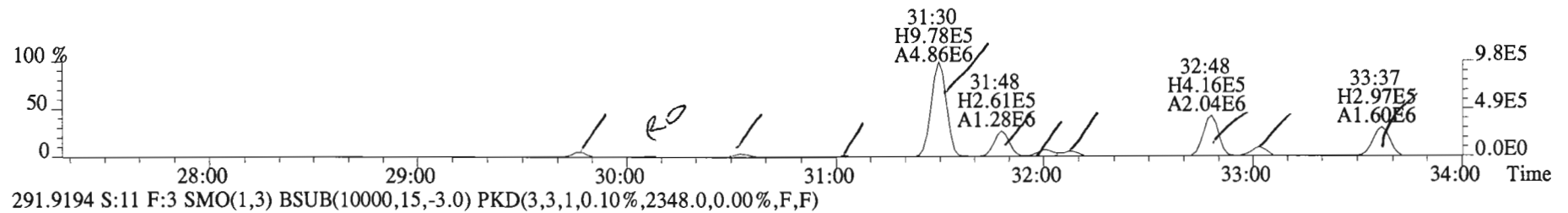
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268.0016 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,87352.0,0.00%,F,F)



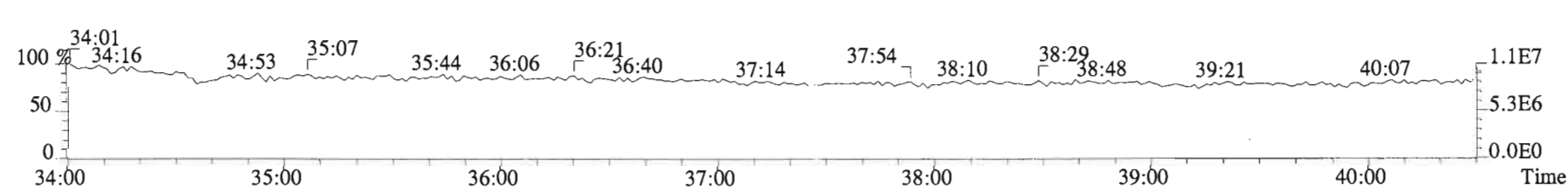
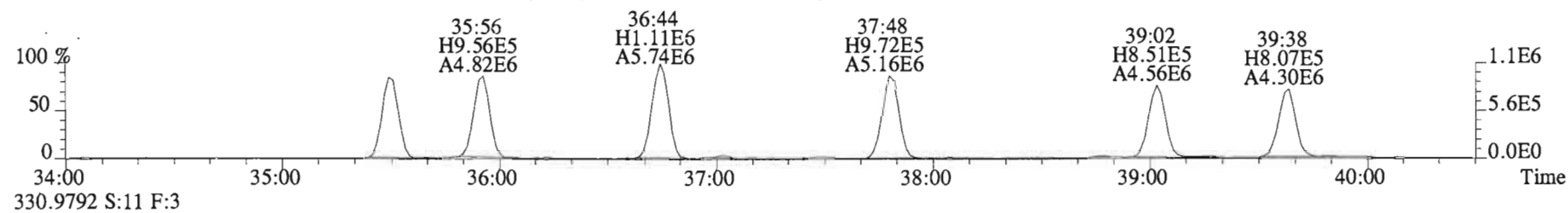
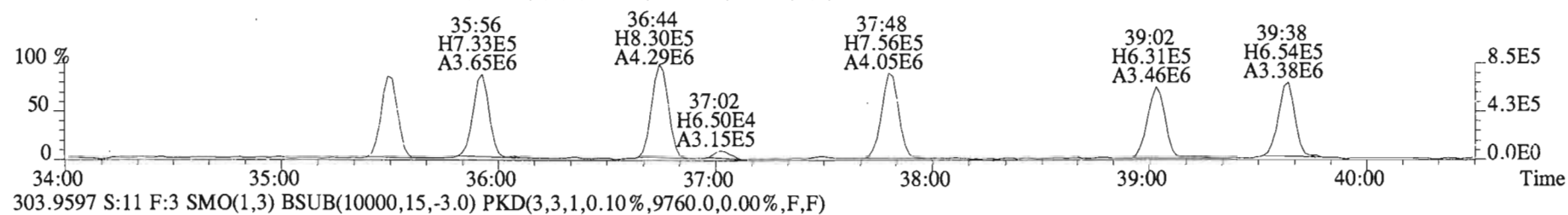
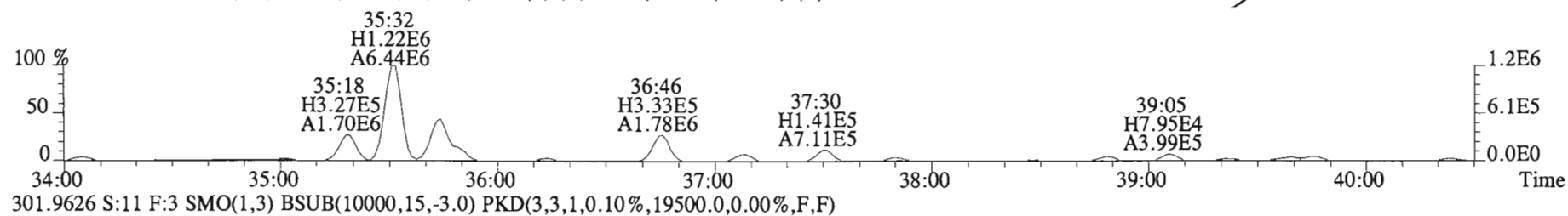
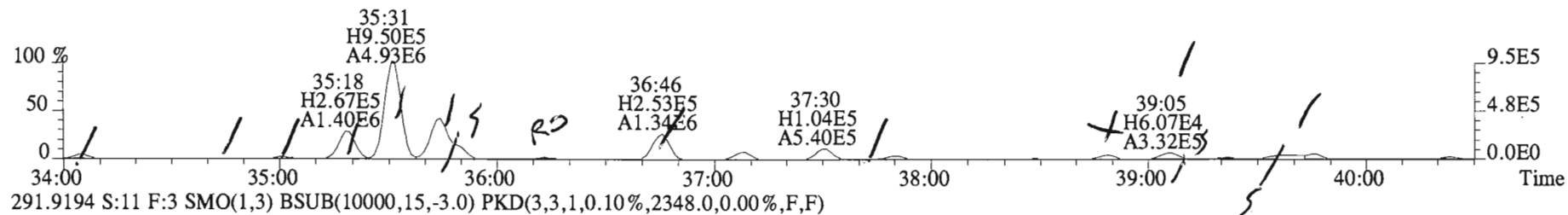
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1800.0,0.00%,F,F)



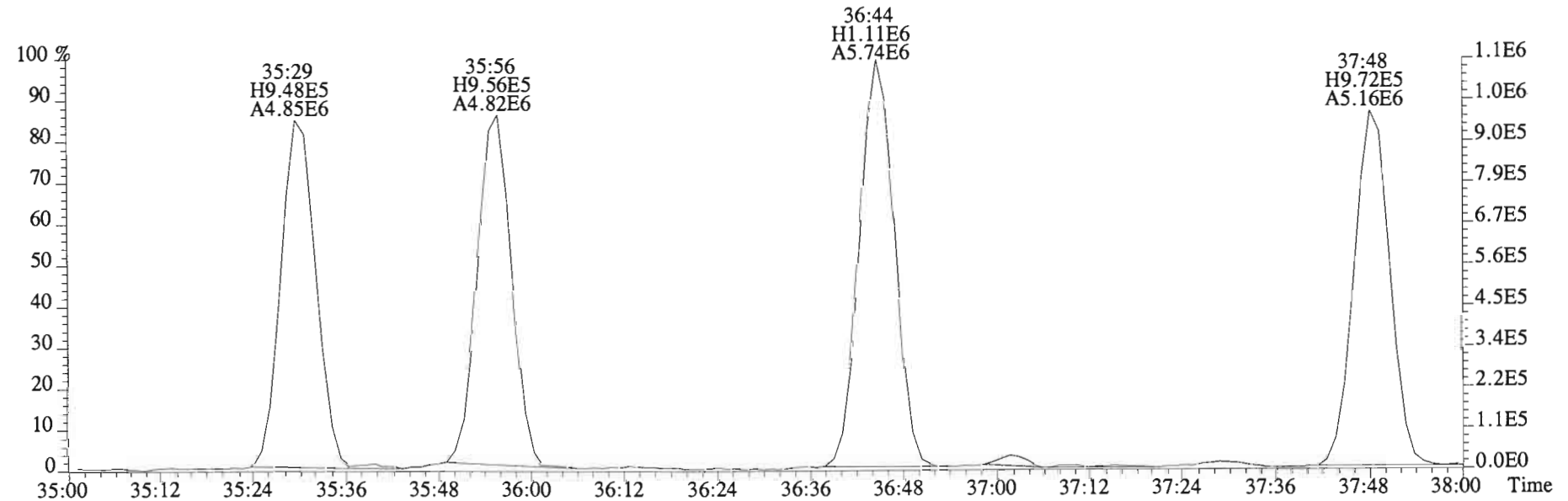
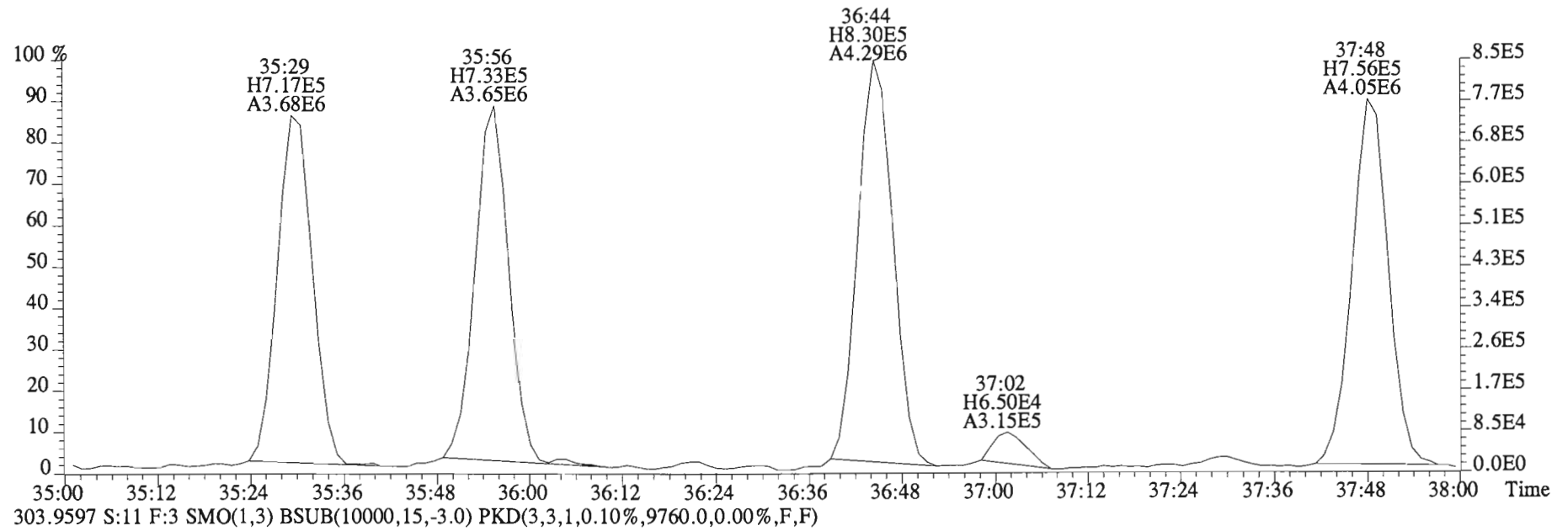
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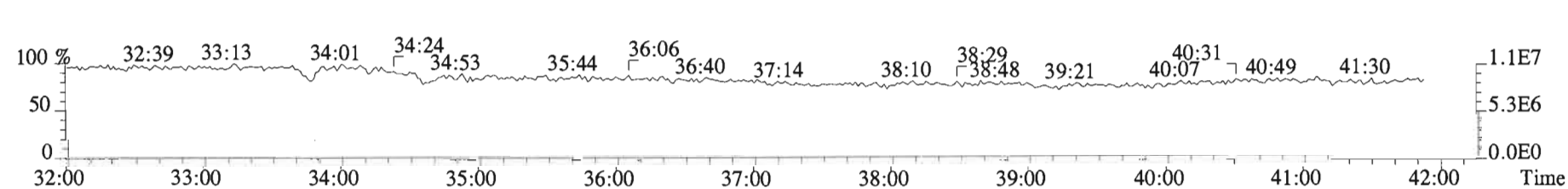
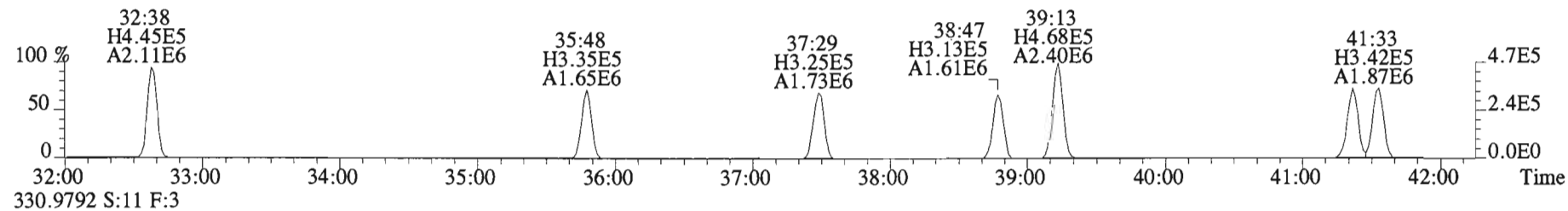
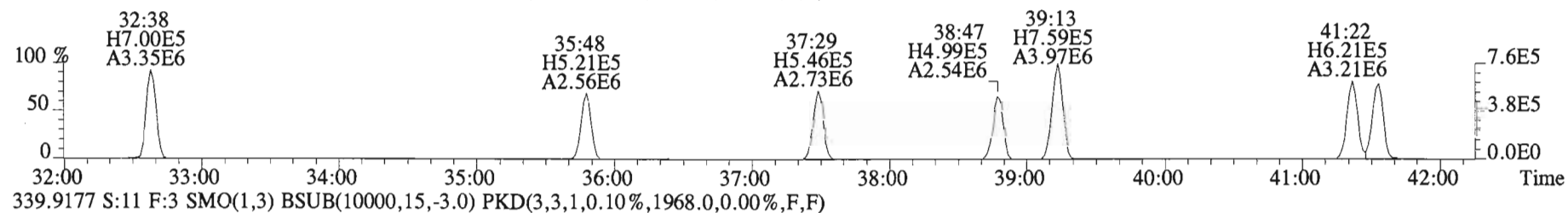
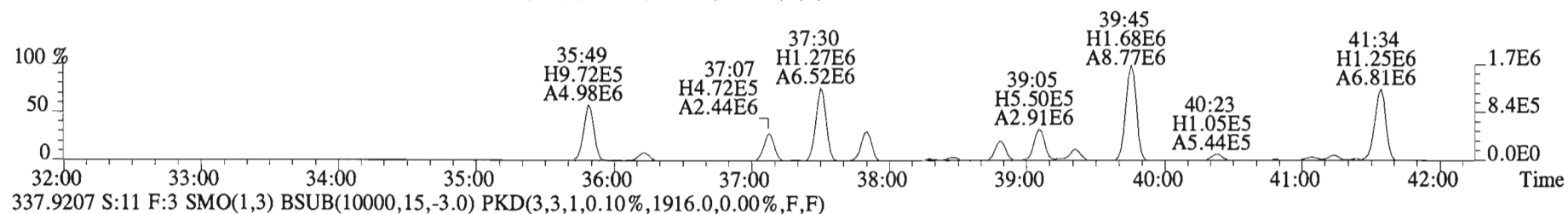
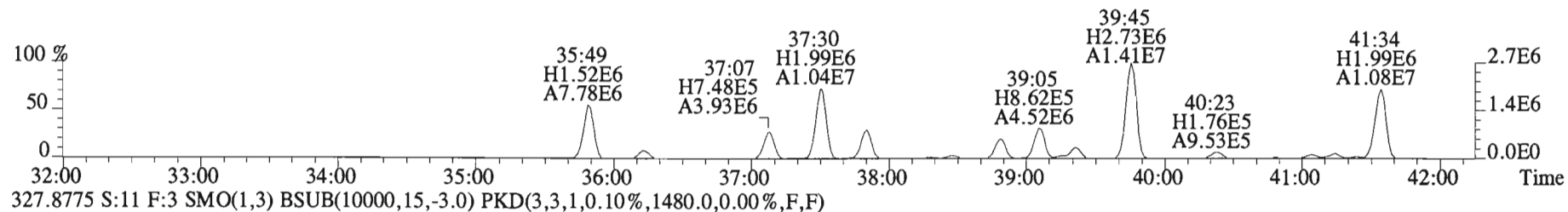
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 289.9224 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1800.0,0.00%,F,F)



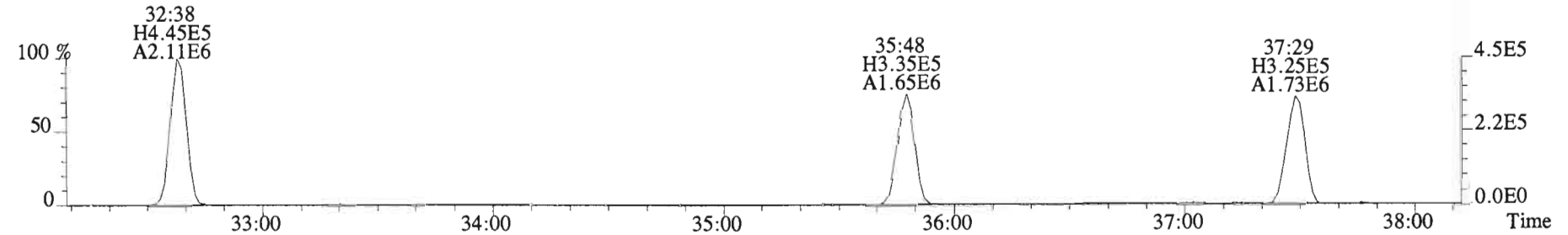
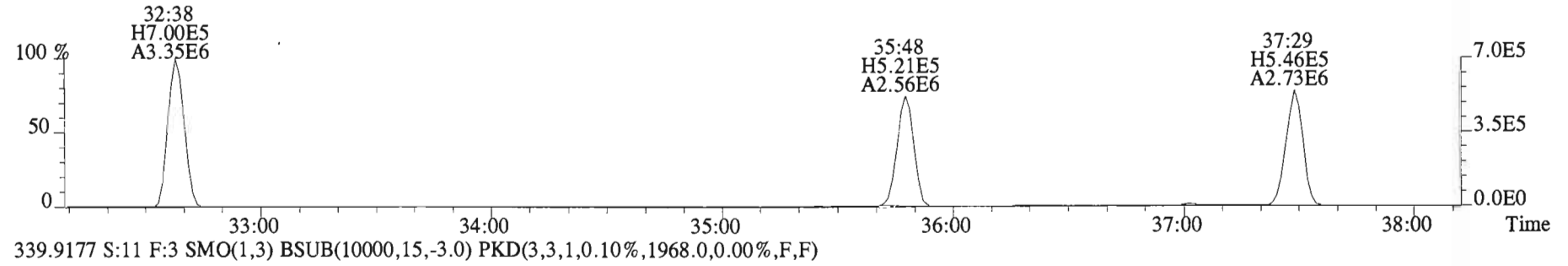
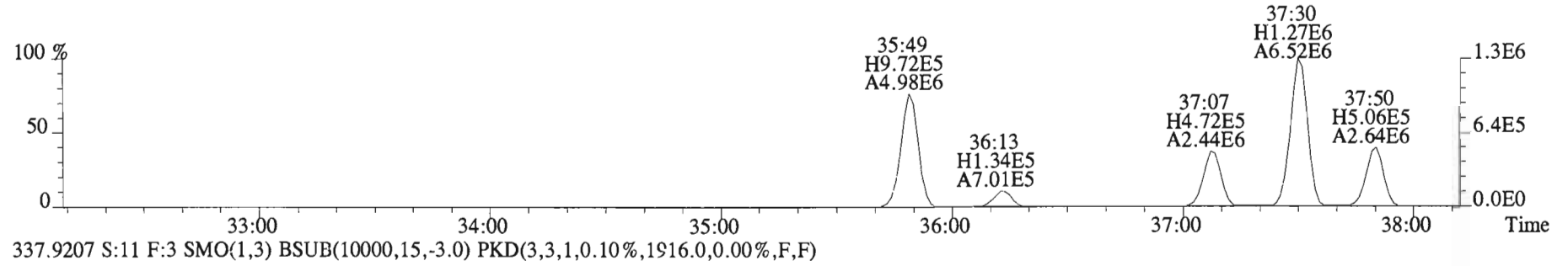
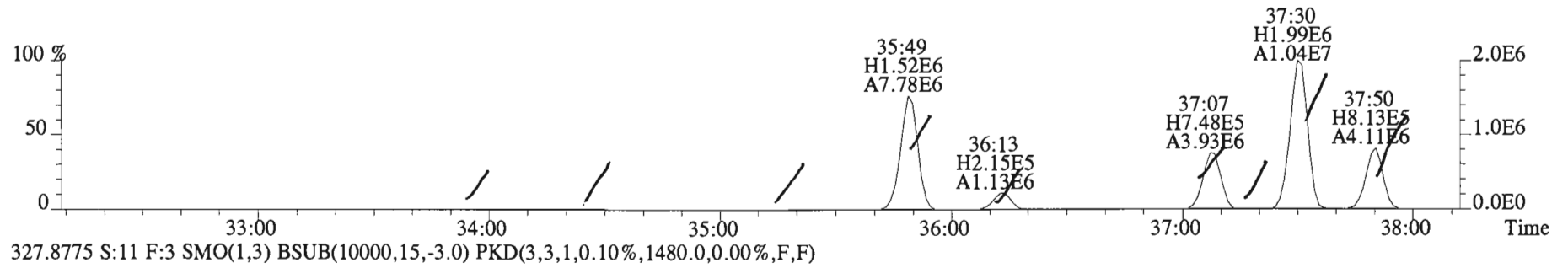
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301.9626 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,19500.0,0.00%,F,F)



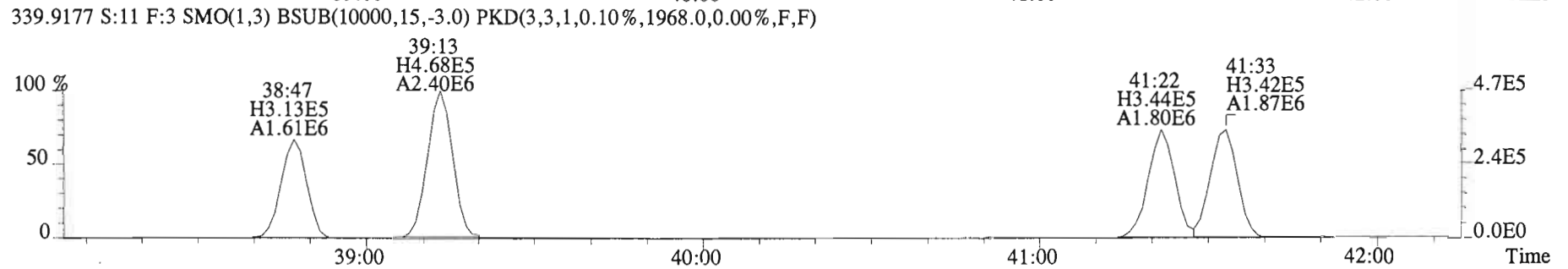
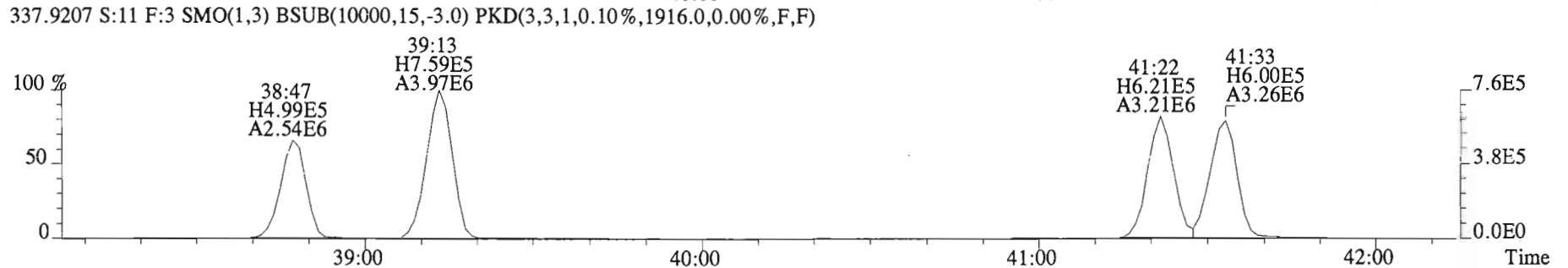
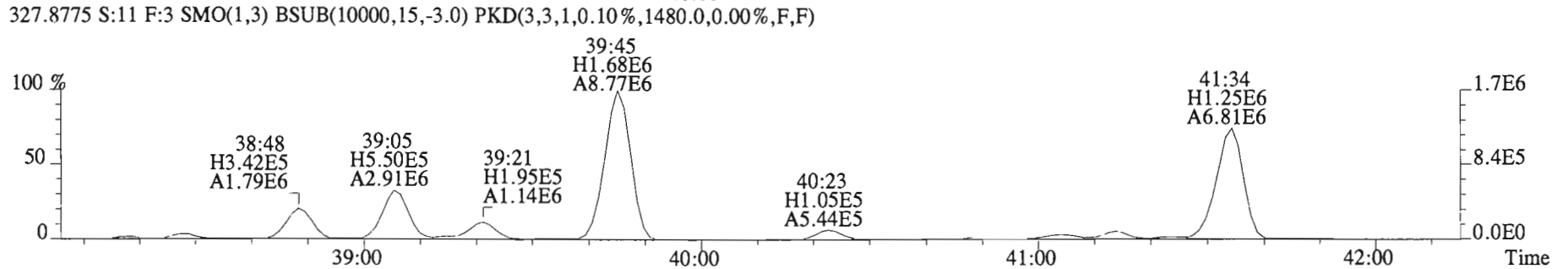
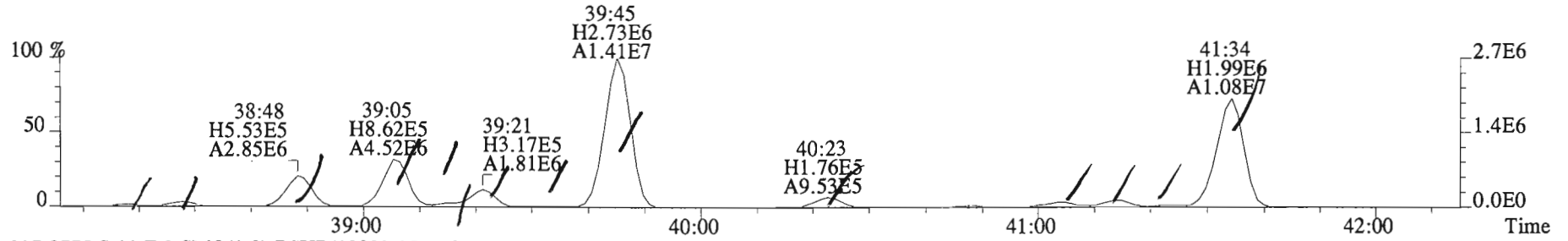
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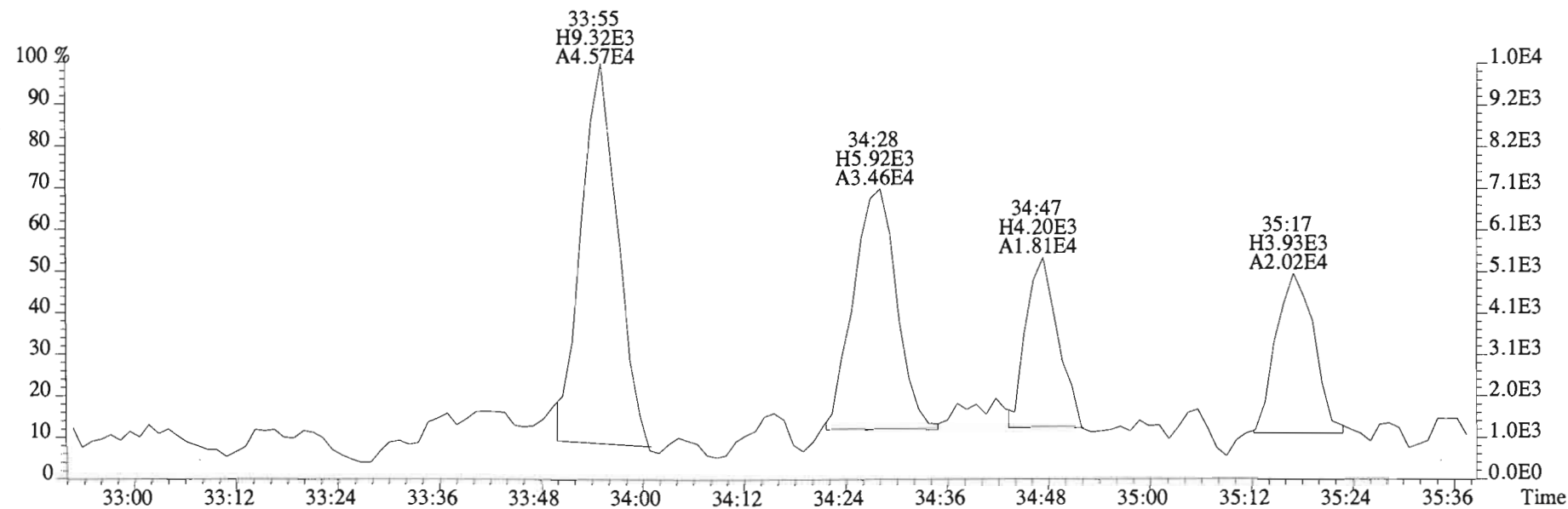
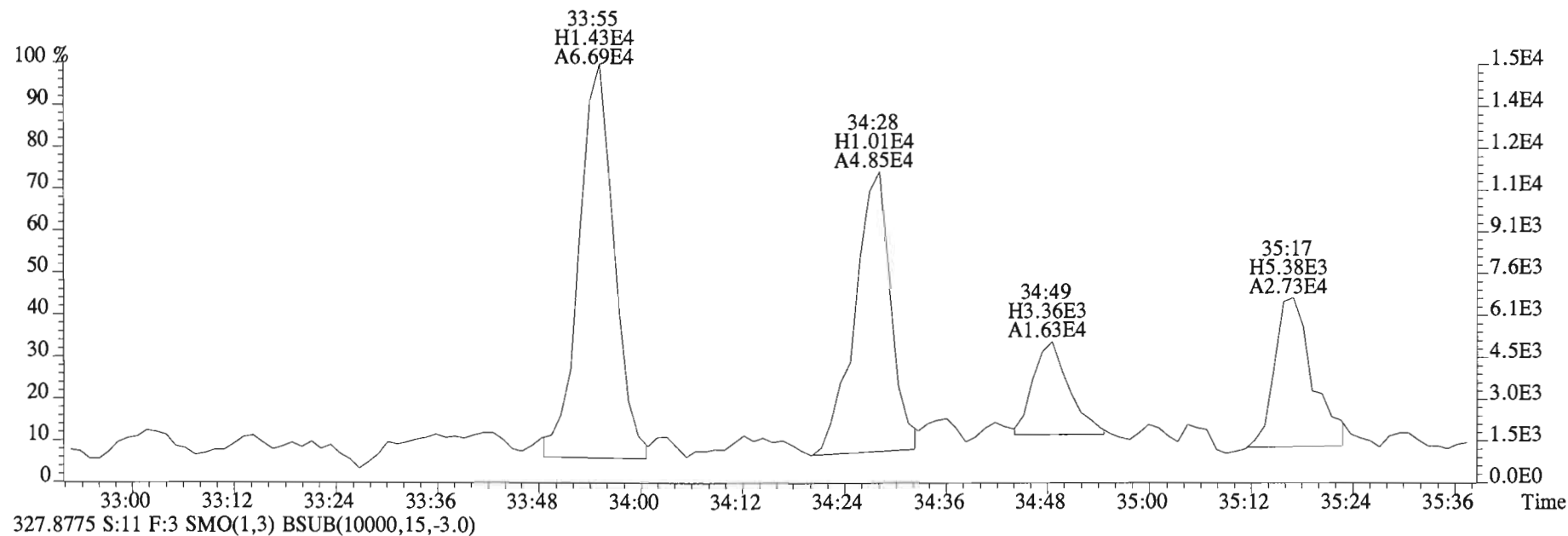
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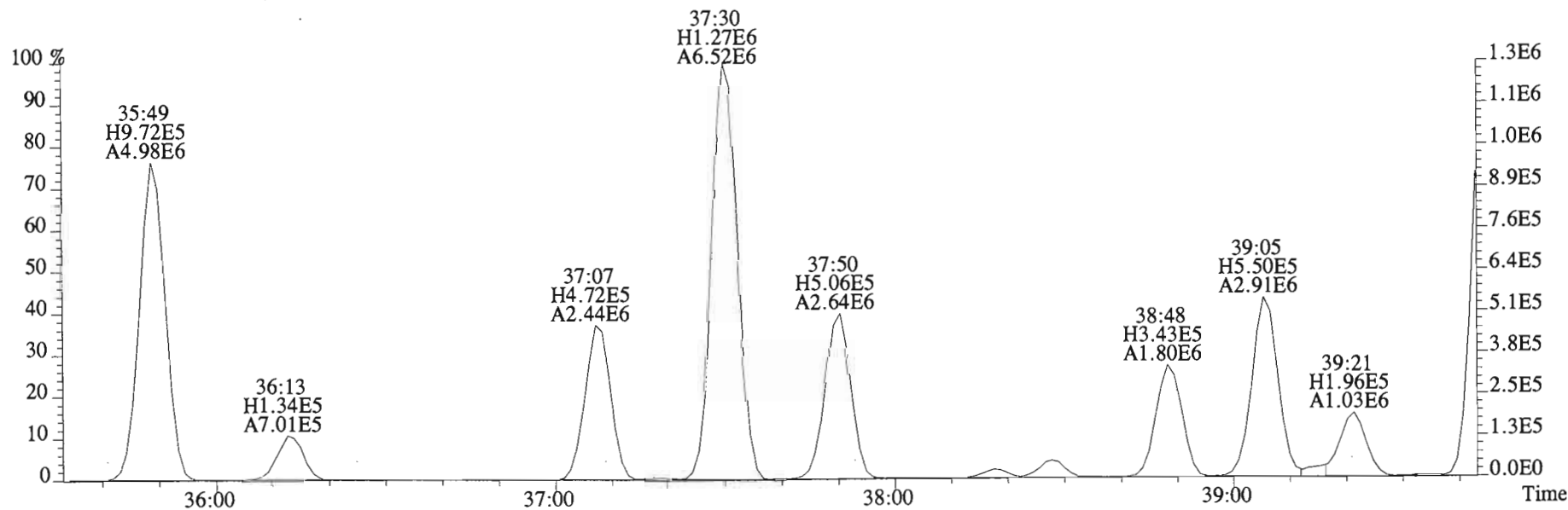
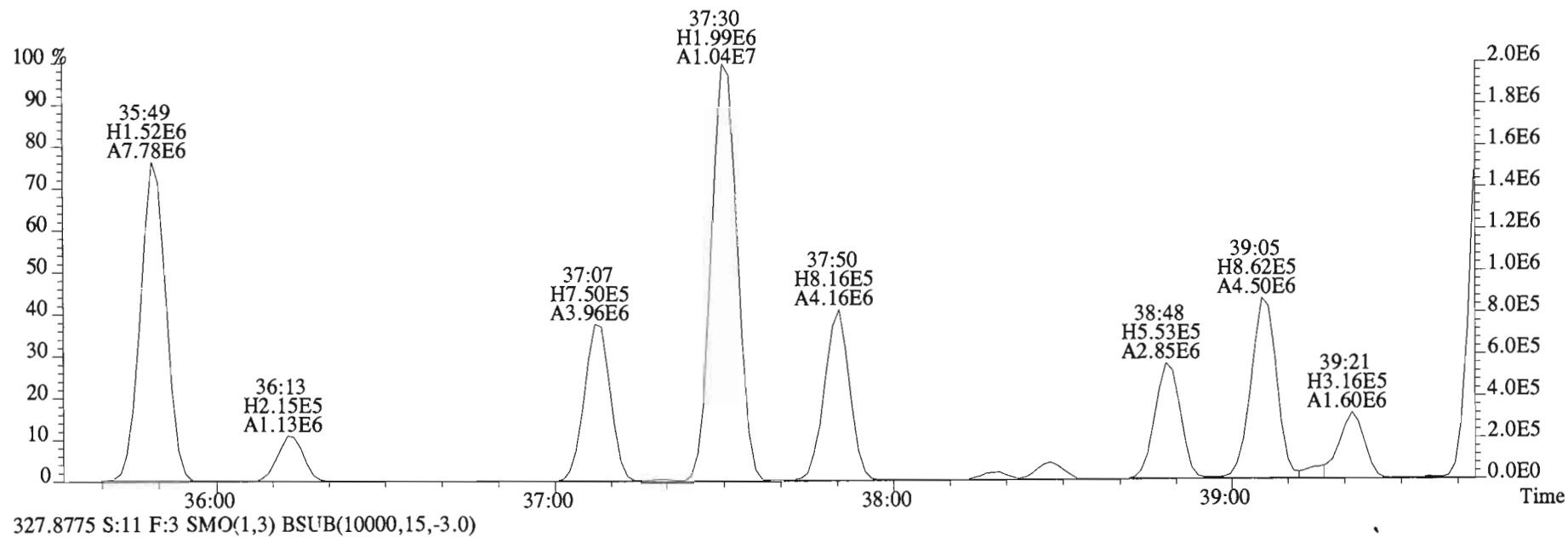
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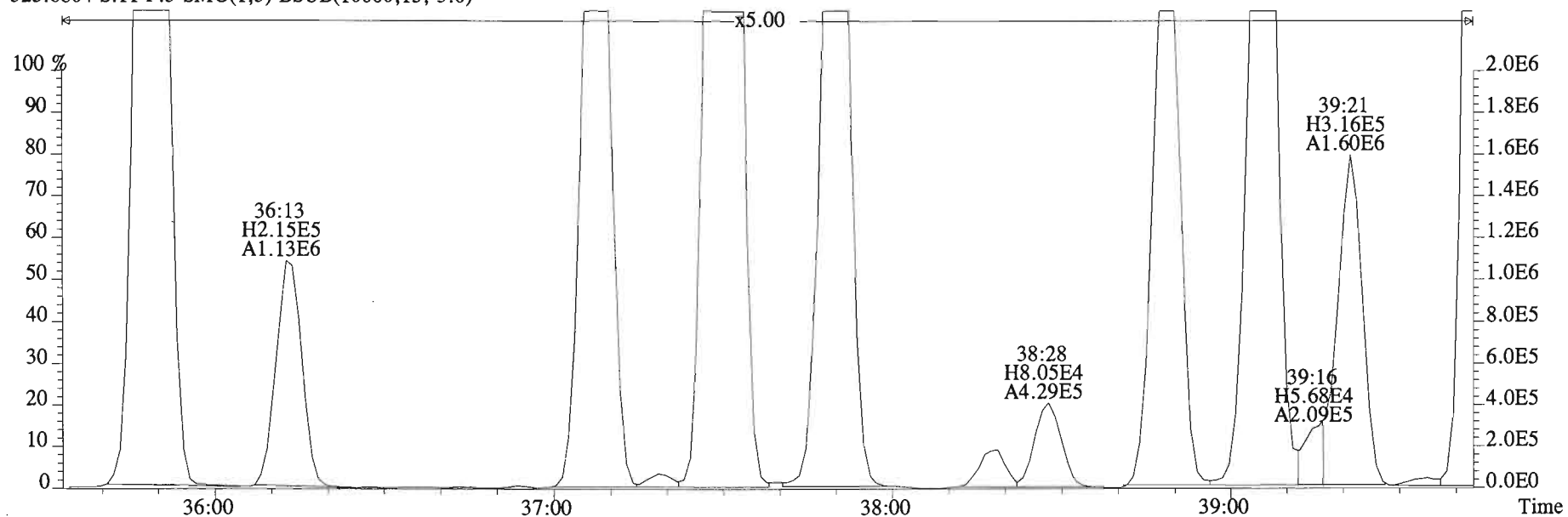
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325.8804 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0)



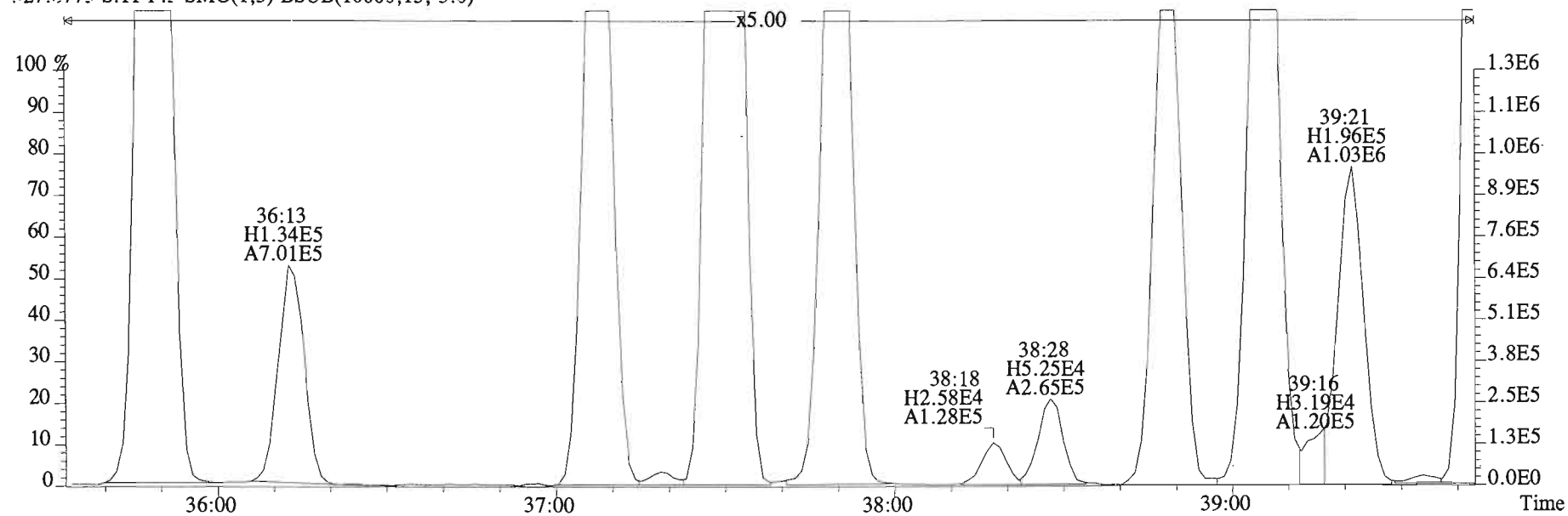
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325.8804 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0)



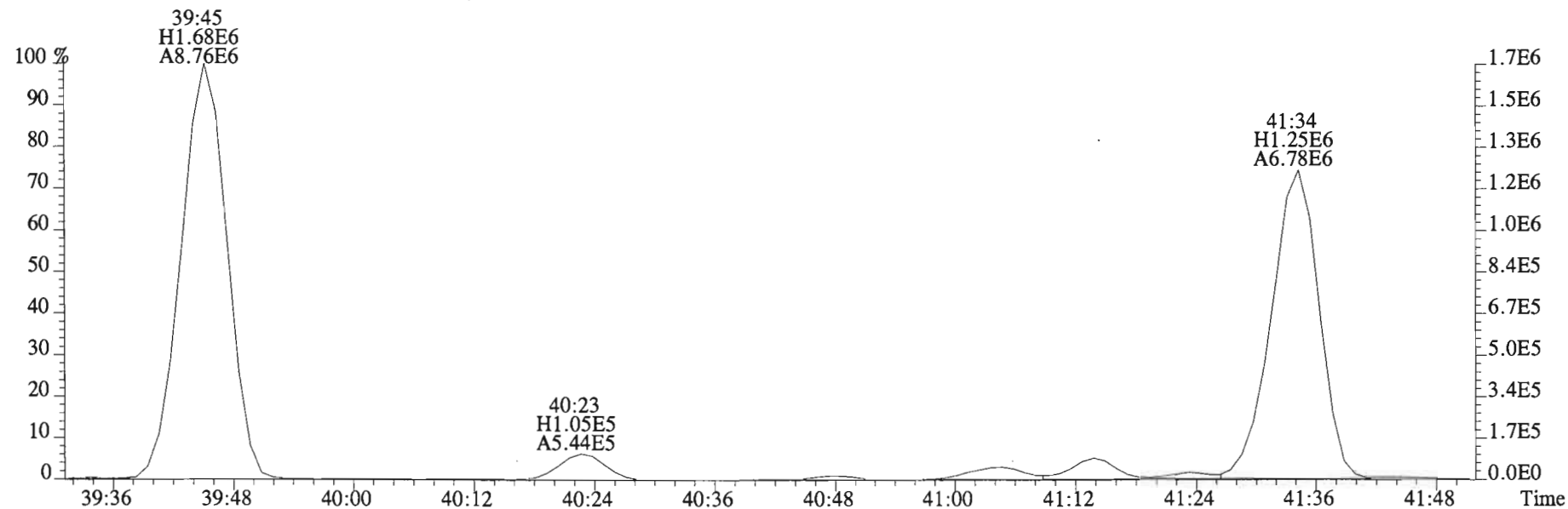
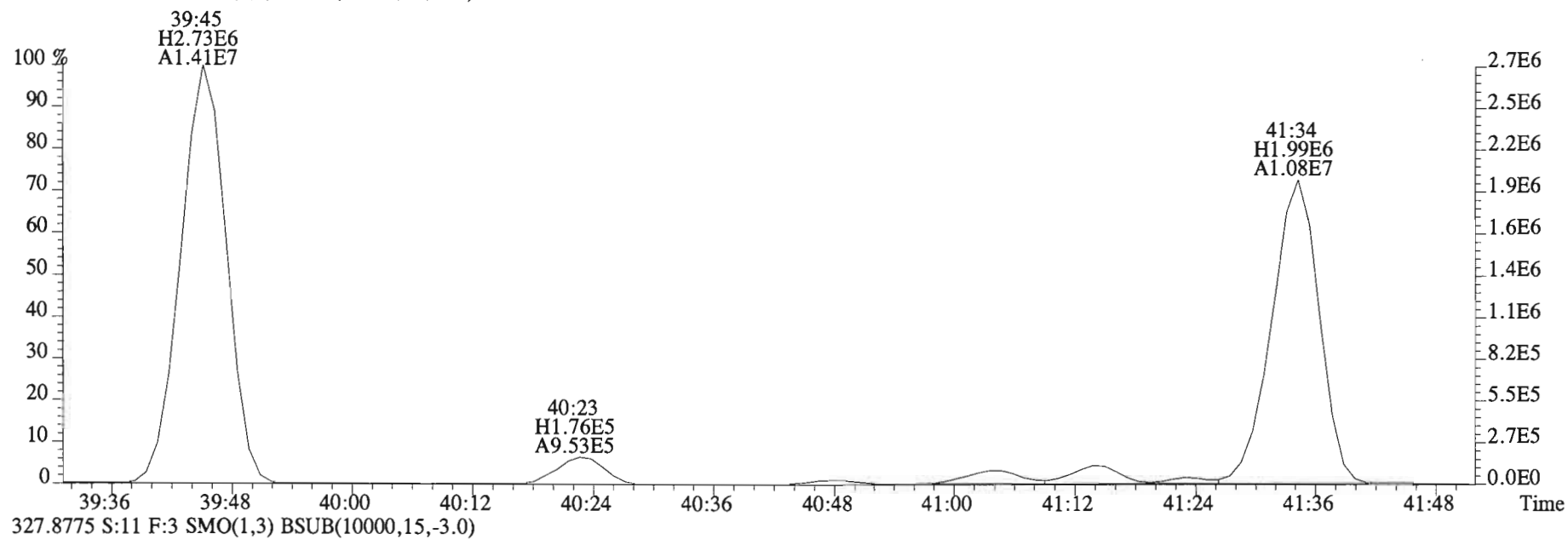
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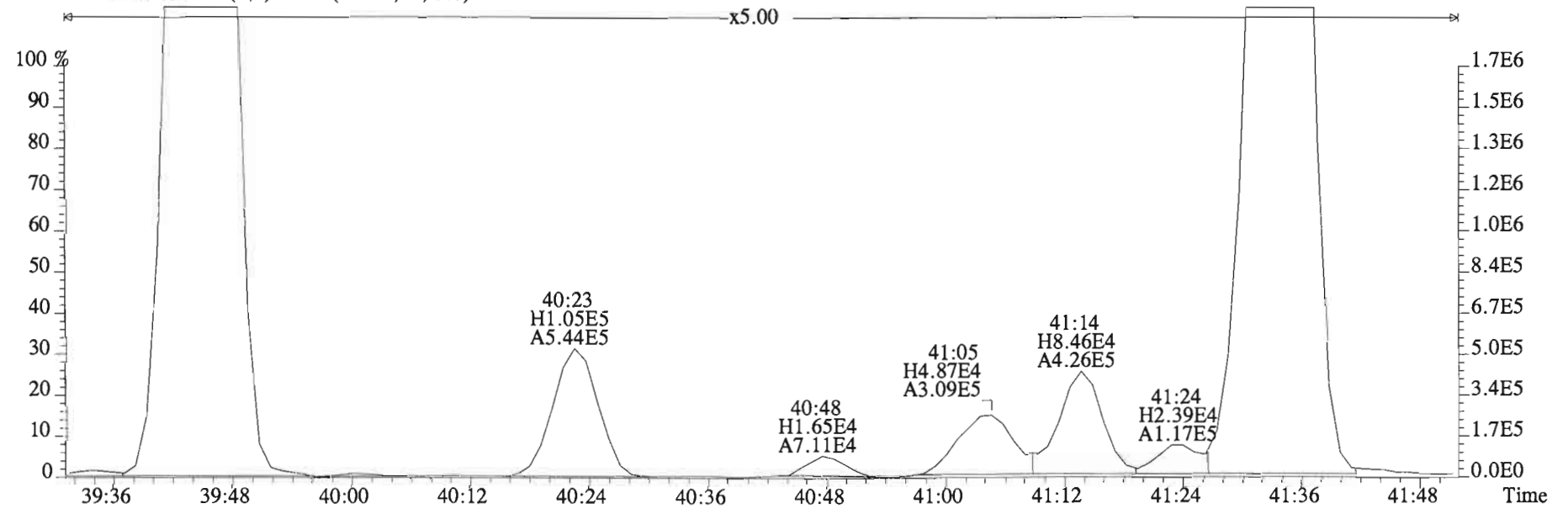
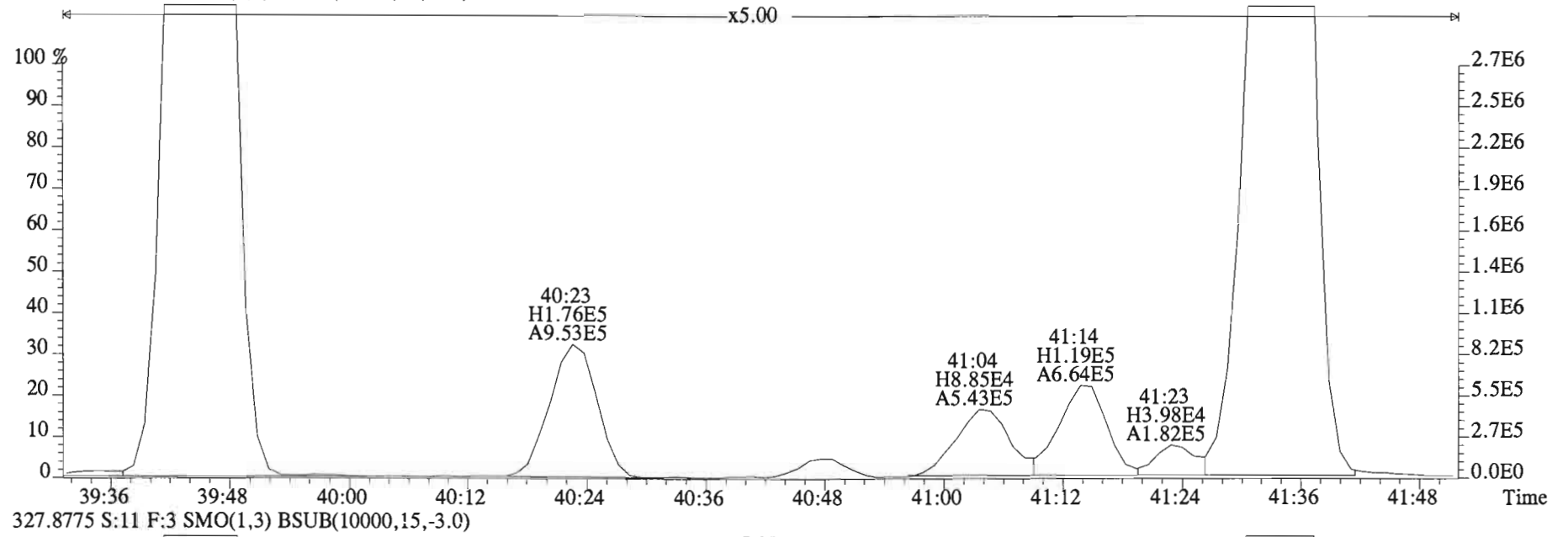
327.8775 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0)



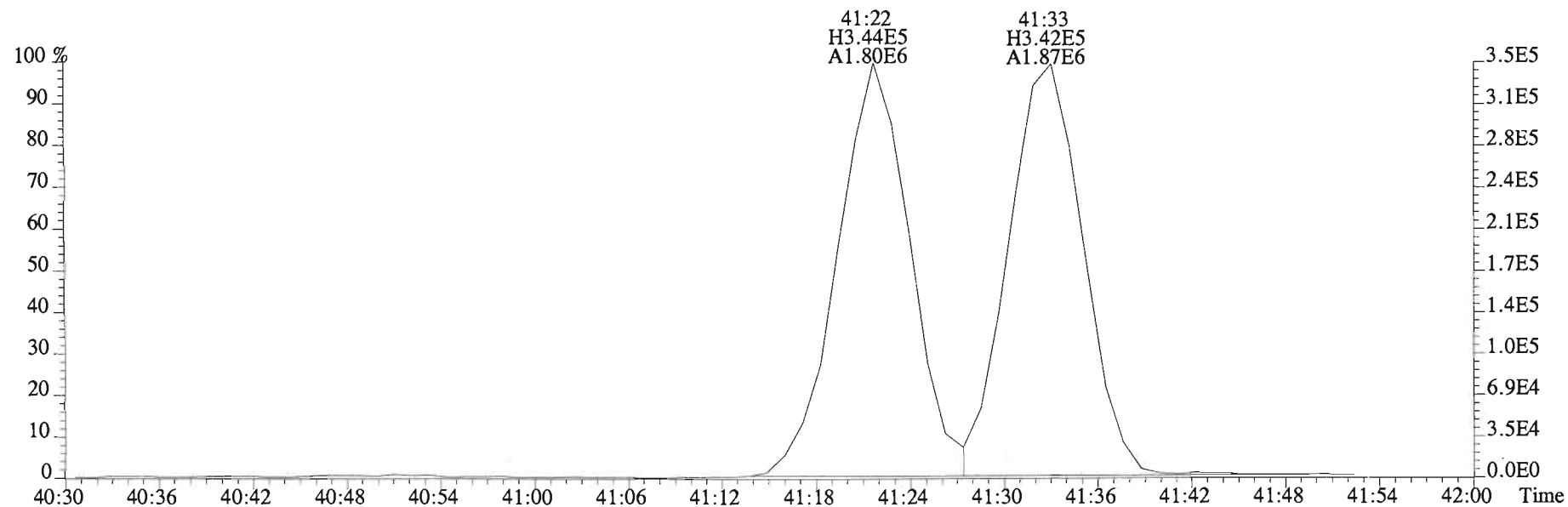
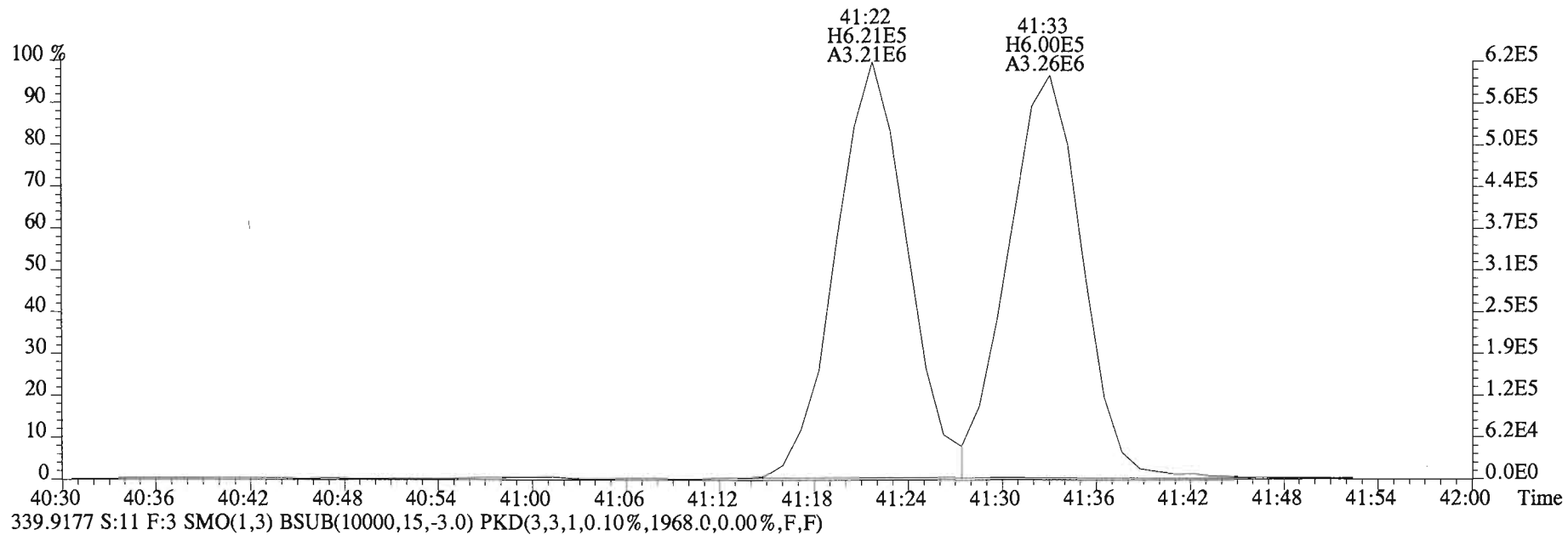
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Sample#11 File Text: Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
325.8804 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0)



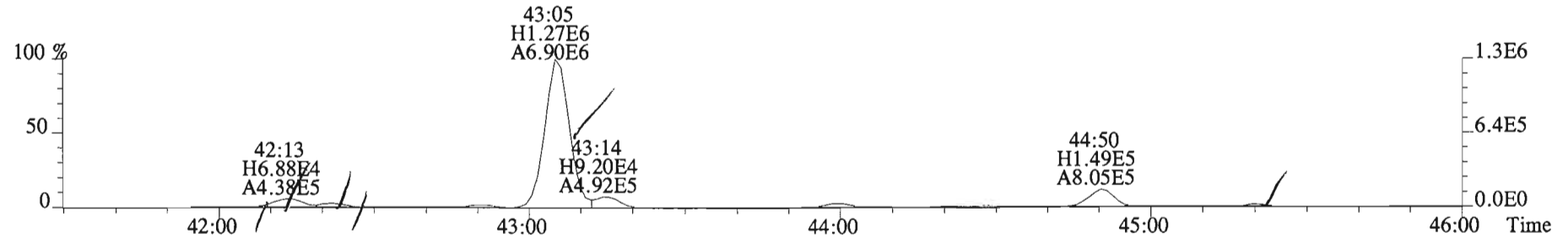
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 Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
 325.8804 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0)



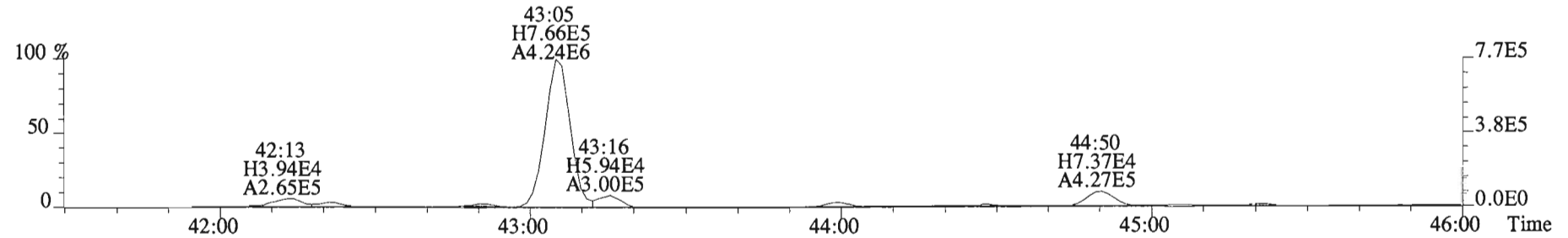
File:150219E2 #1-758 Acq:20-FEB-2015 00:48:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text: Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
337.9207 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1916.0,0.00%,F,F)



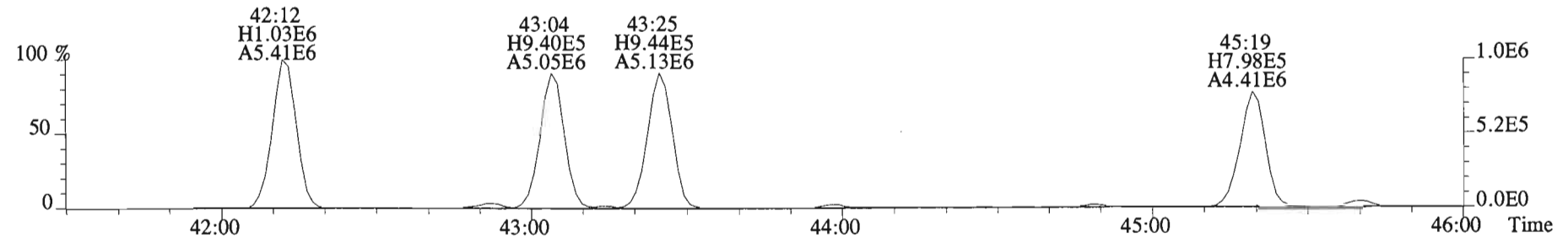
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
325.8804 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2800.0,0.00%,F,F)



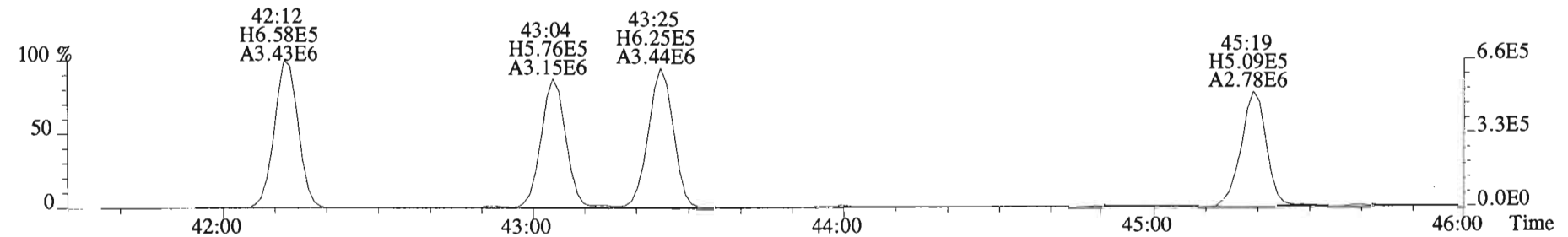
327.8775 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2624.0,0.00%,F,F)



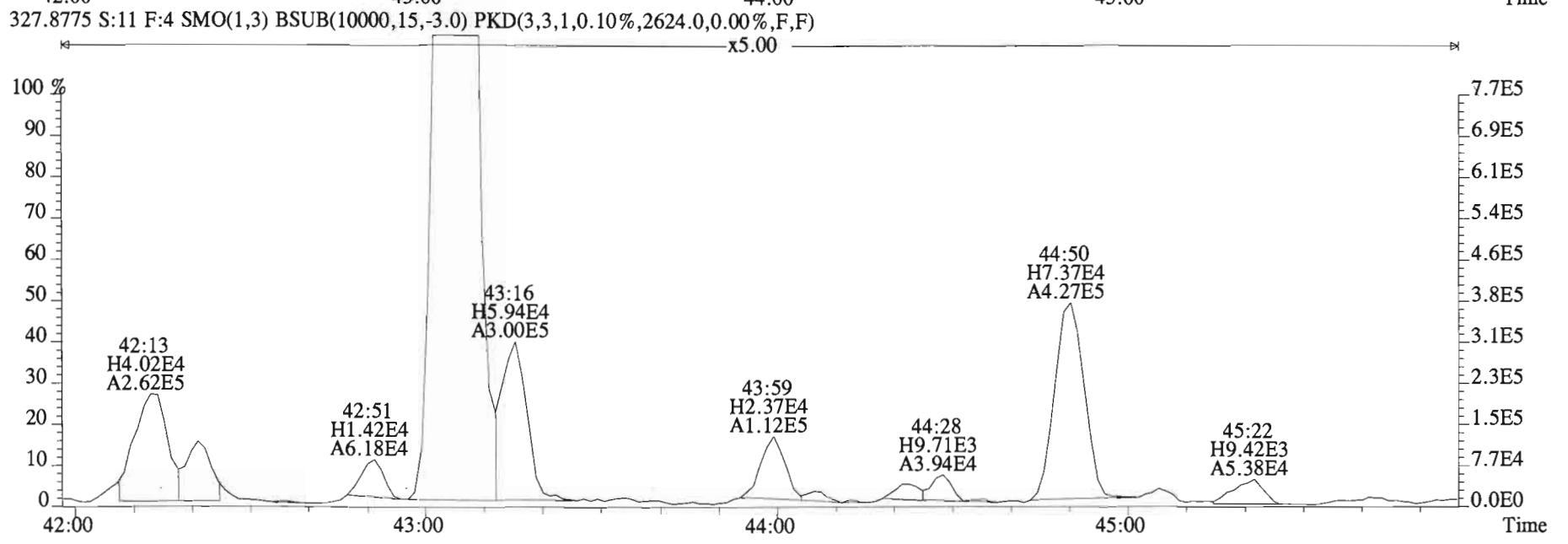
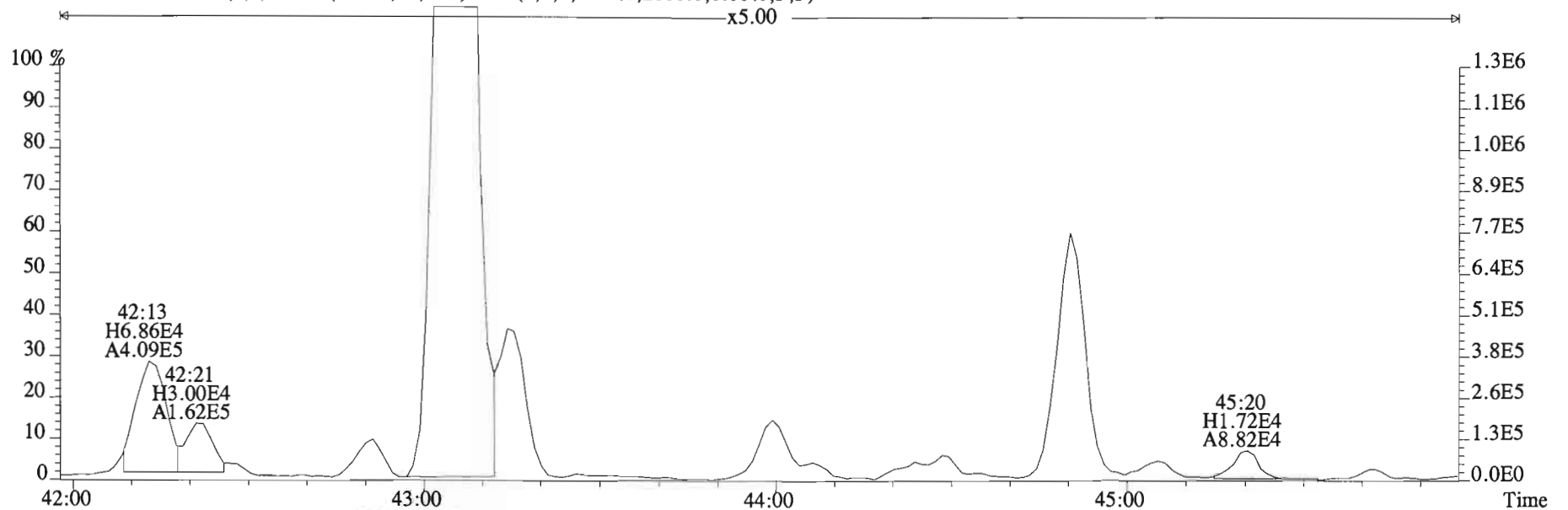
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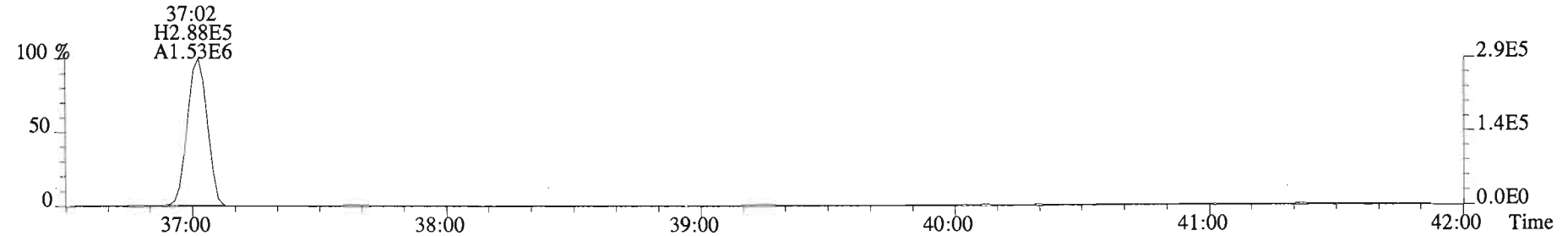
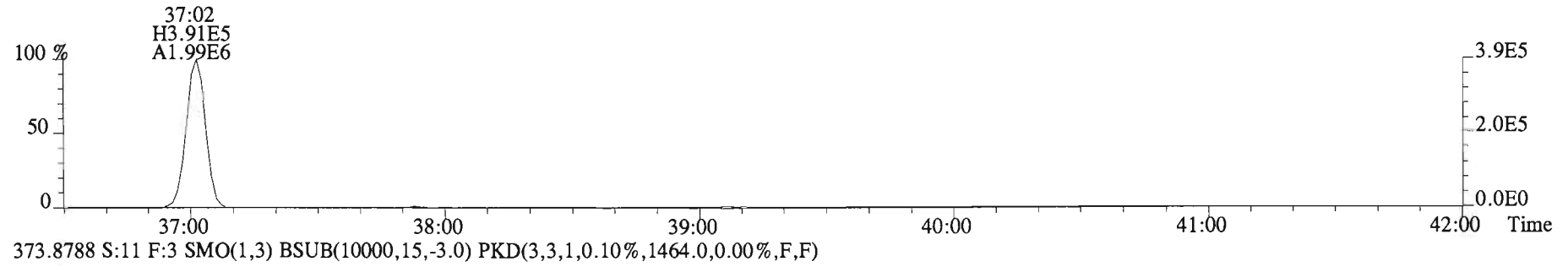
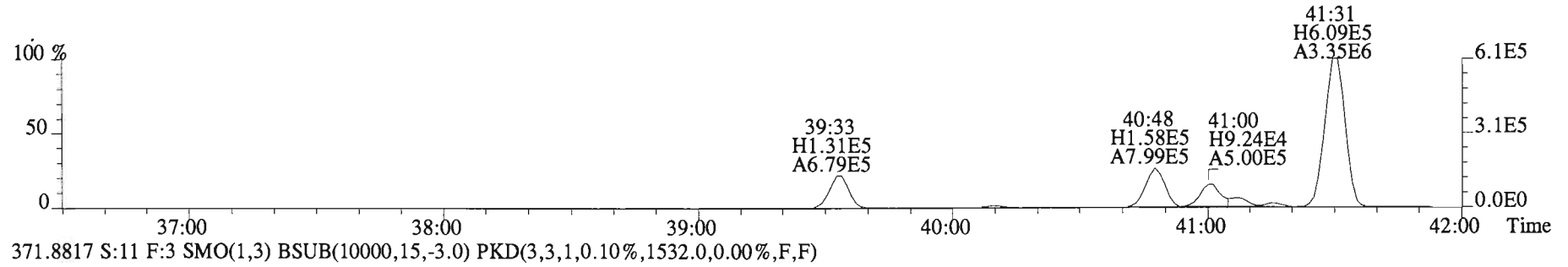
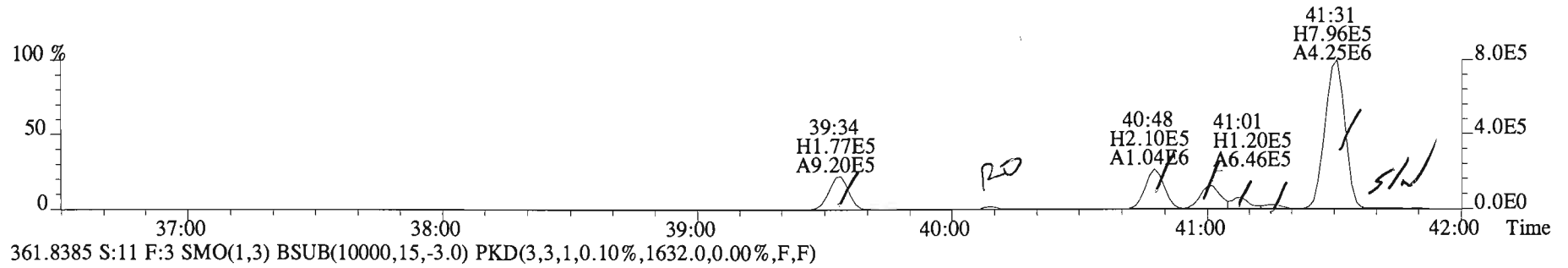
339.9177 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2388.0,0.00%,F,F)



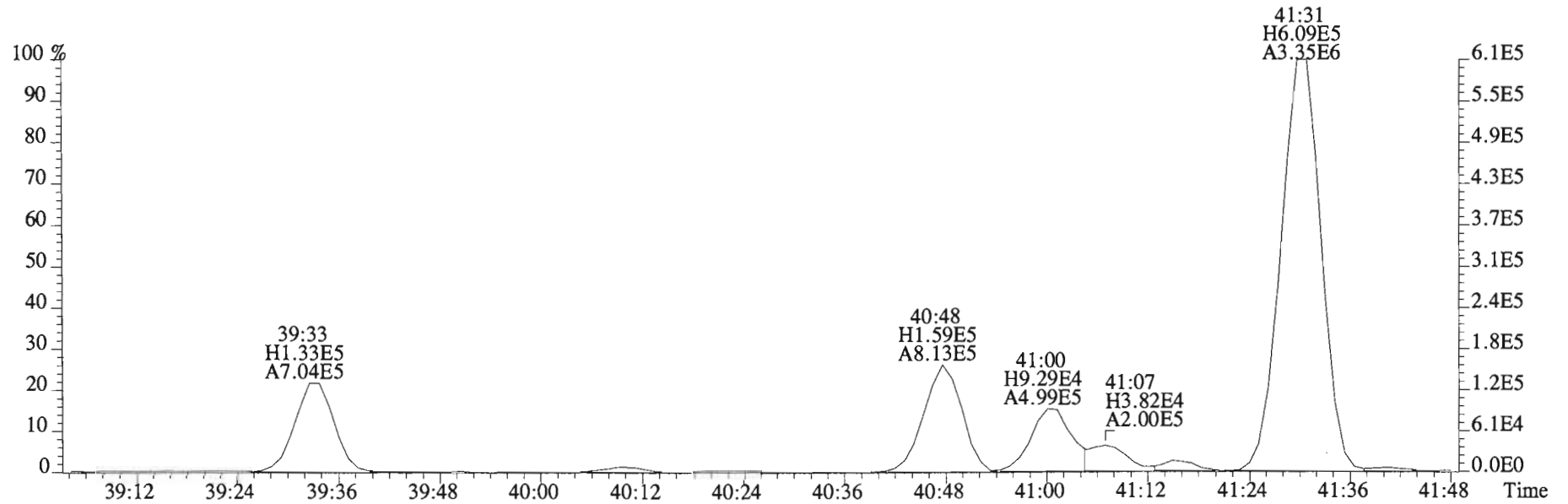
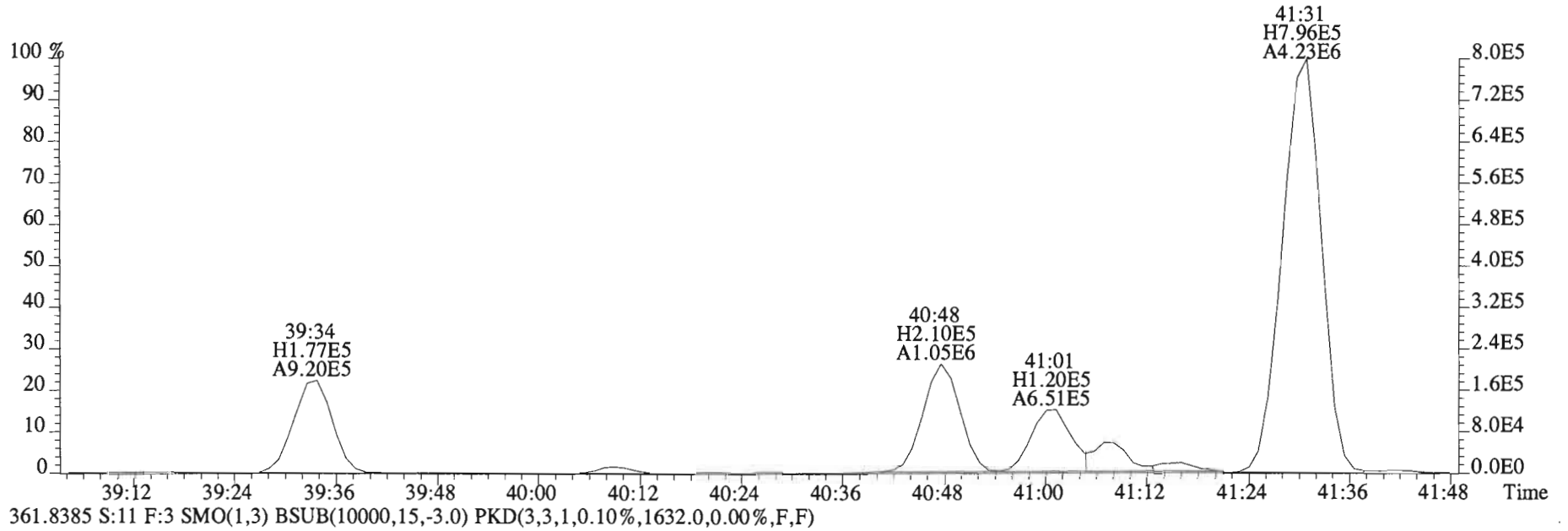
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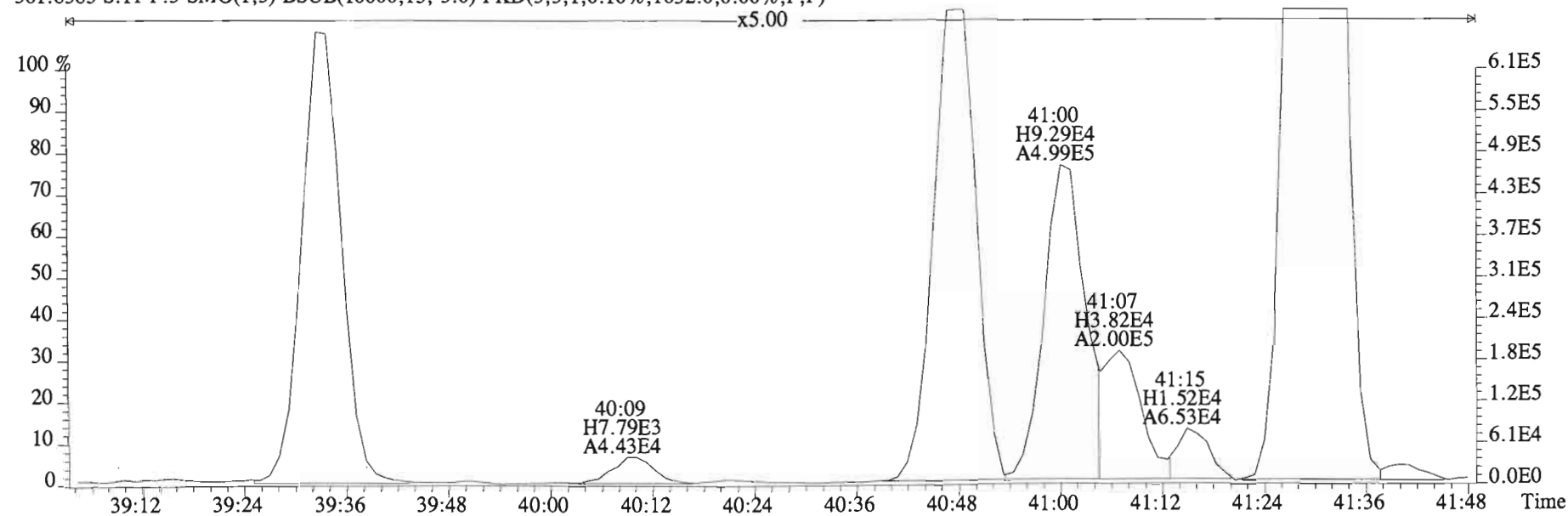
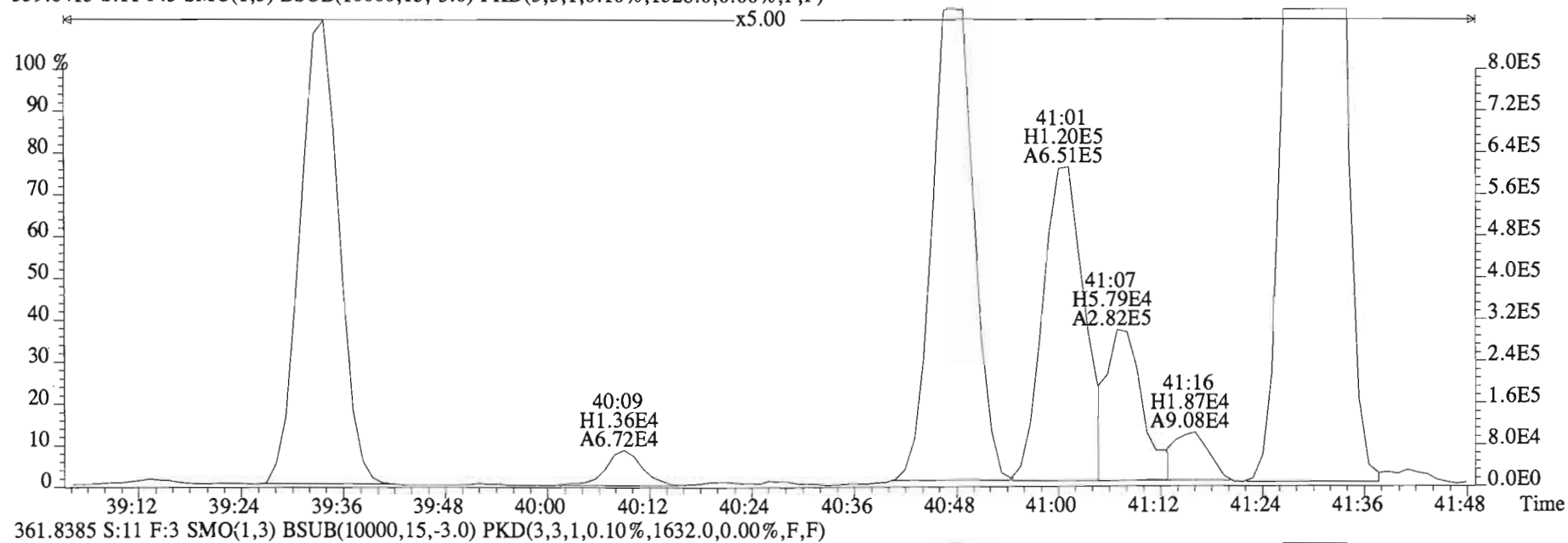
File:150219E2 #1-758 Acq:20-FEB-2015 00:48:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
359.8415 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1528.0,0.00%,F,F)



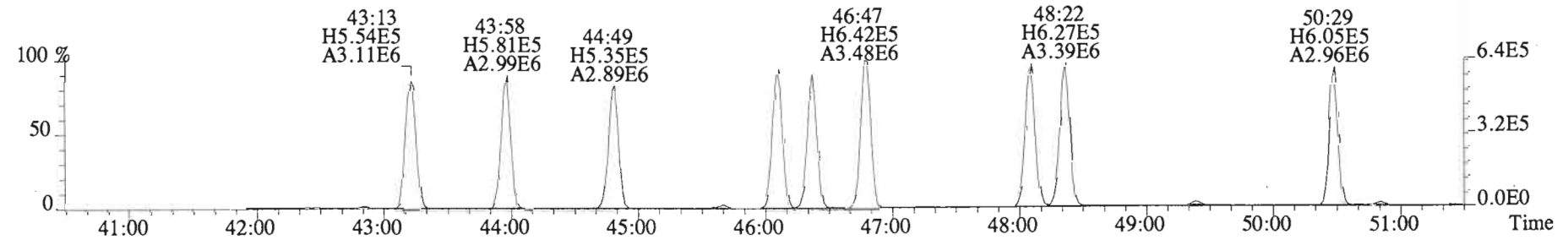
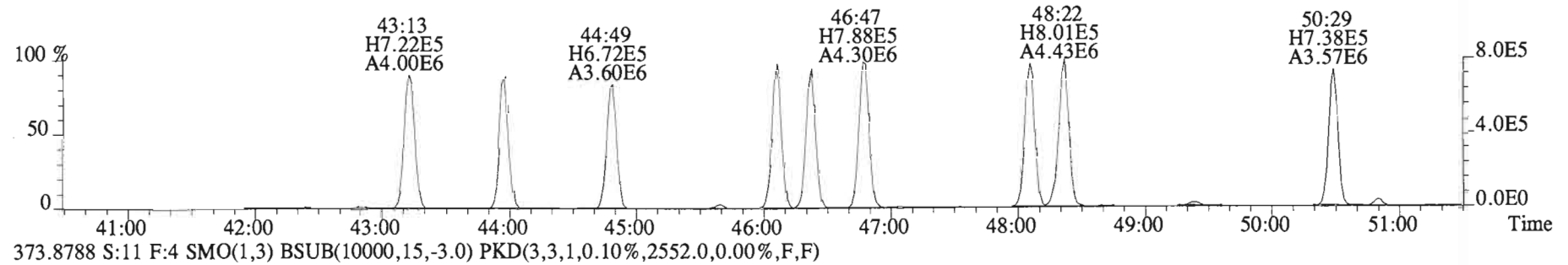
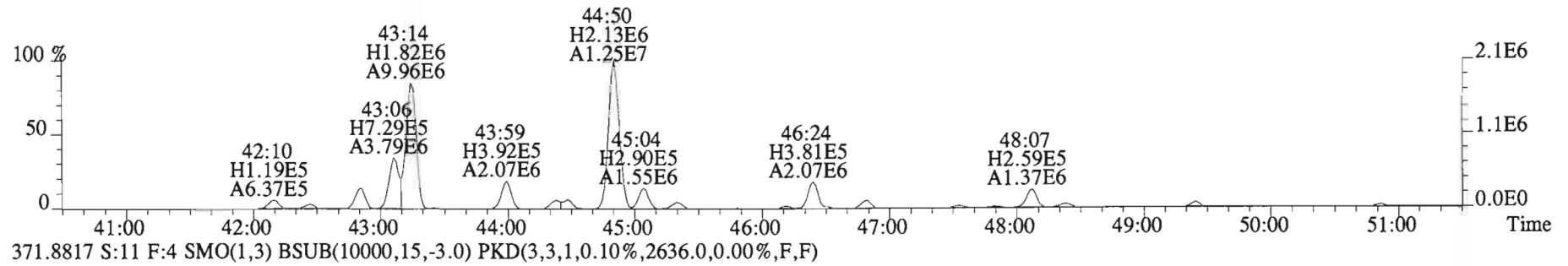
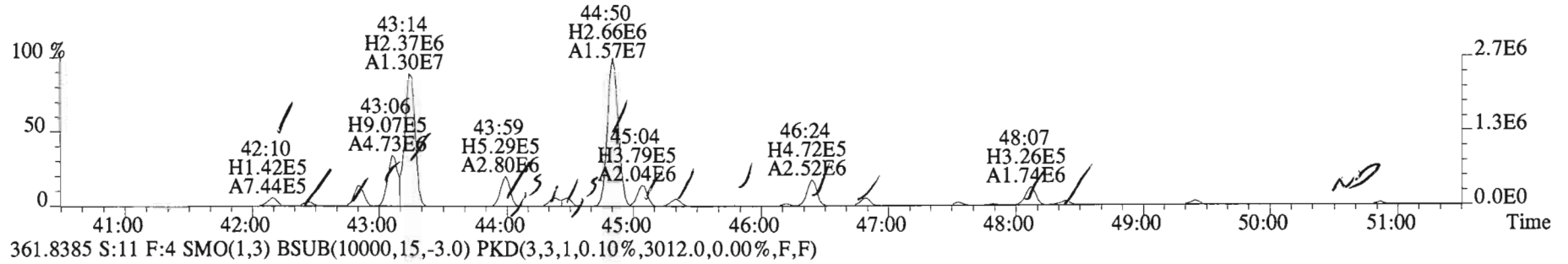
File:150219E2 #1-758 Acq:20-FEB-2015 00:48:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
359.8415 S:11 F:3 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1528.0,0.00%,F,F)



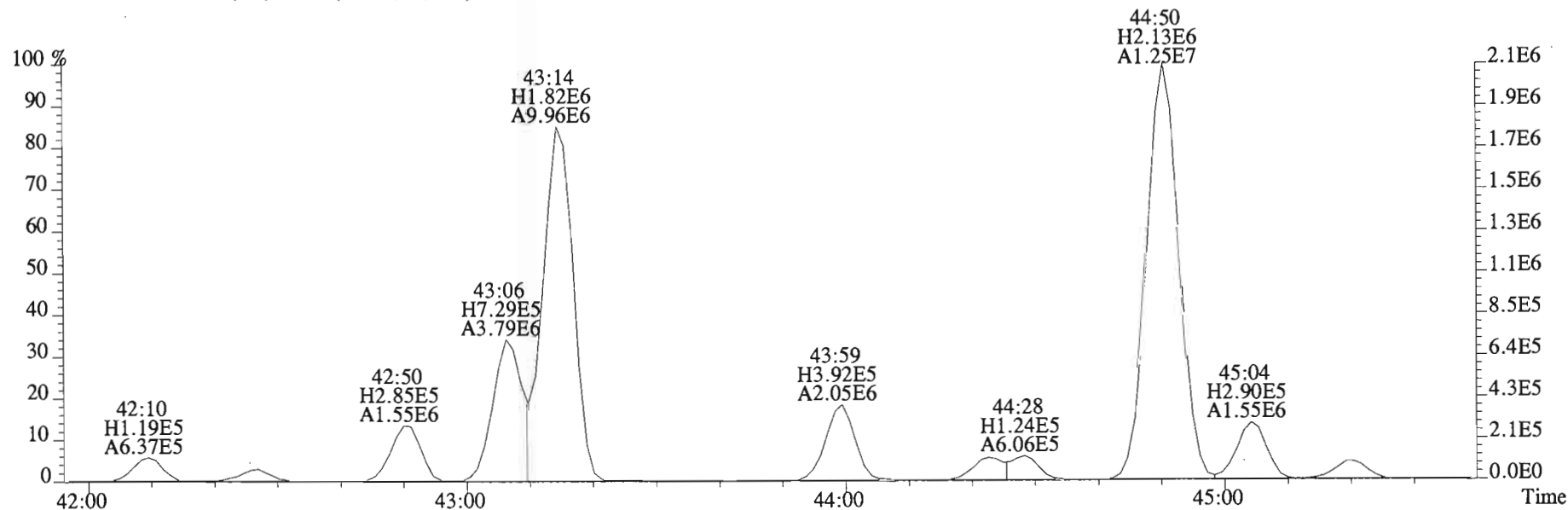
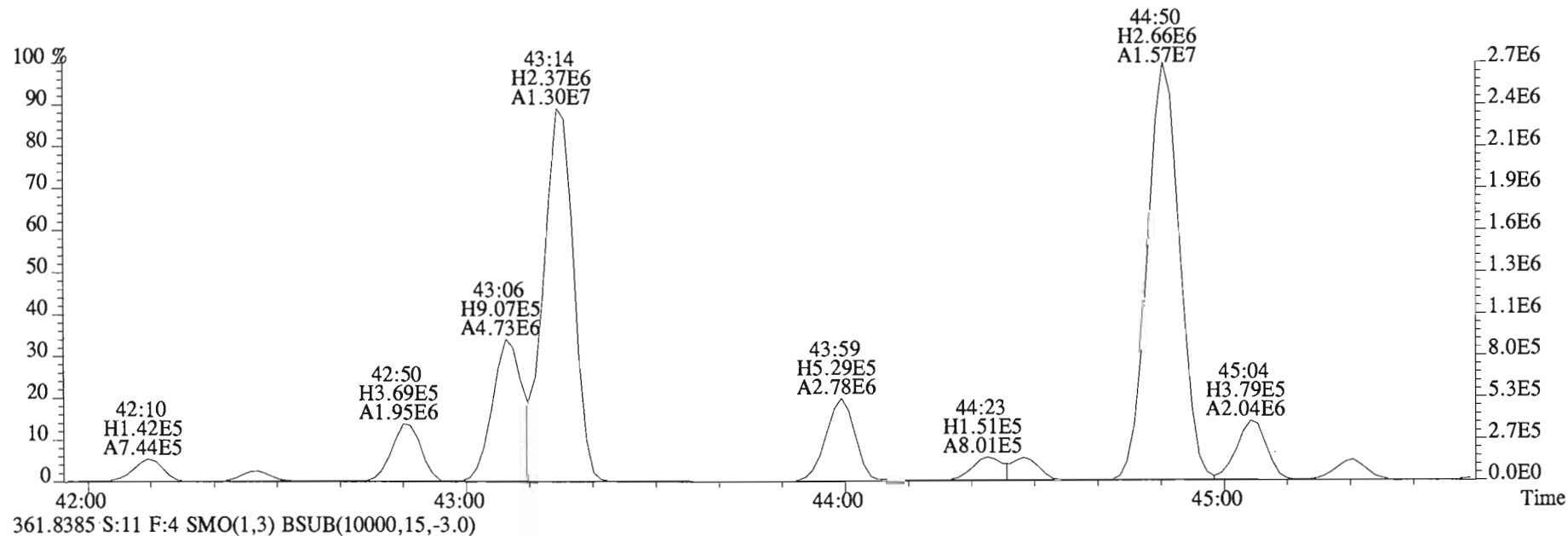
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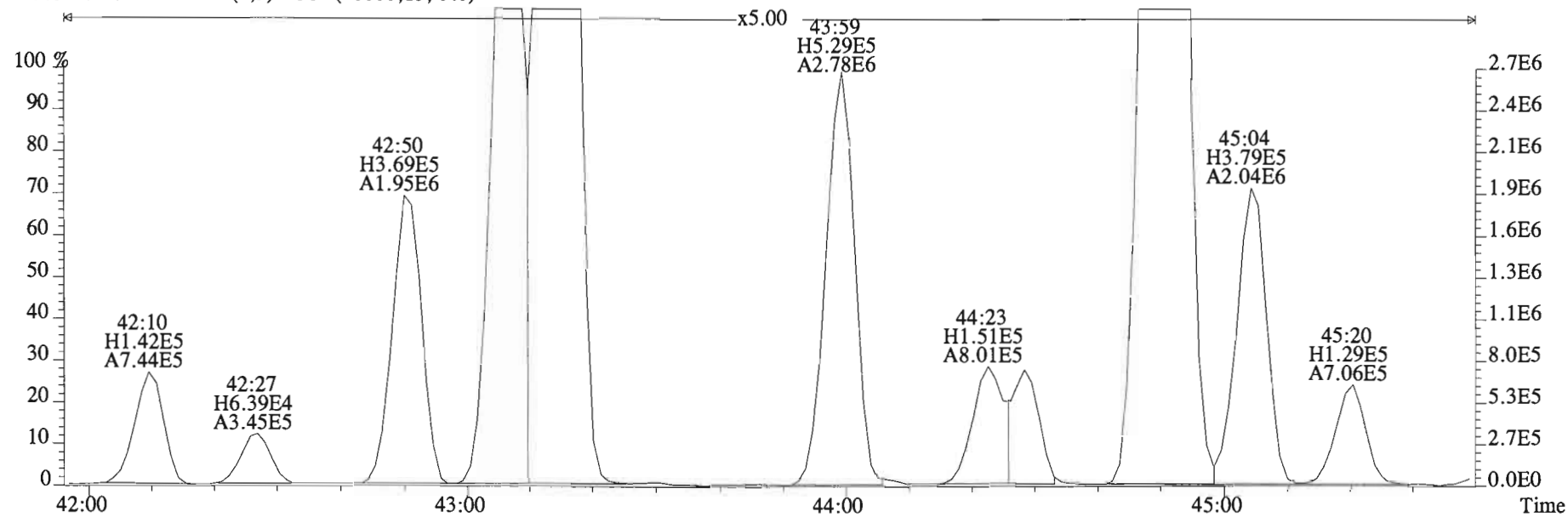
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
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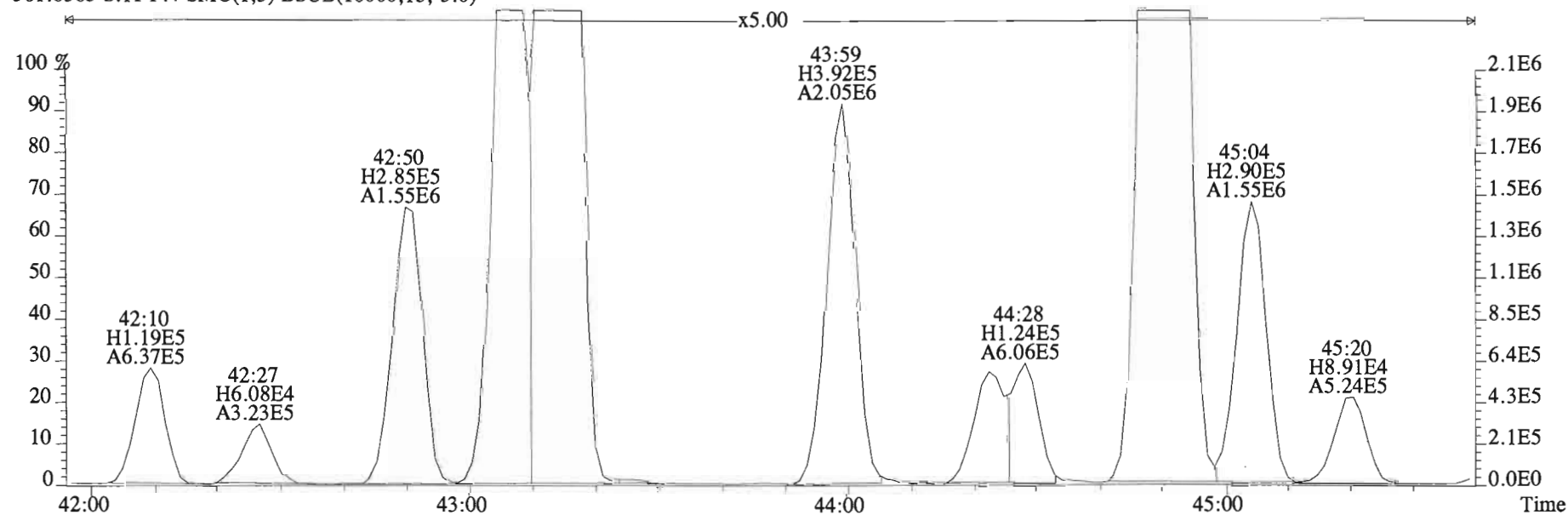
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 359.8415 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0)



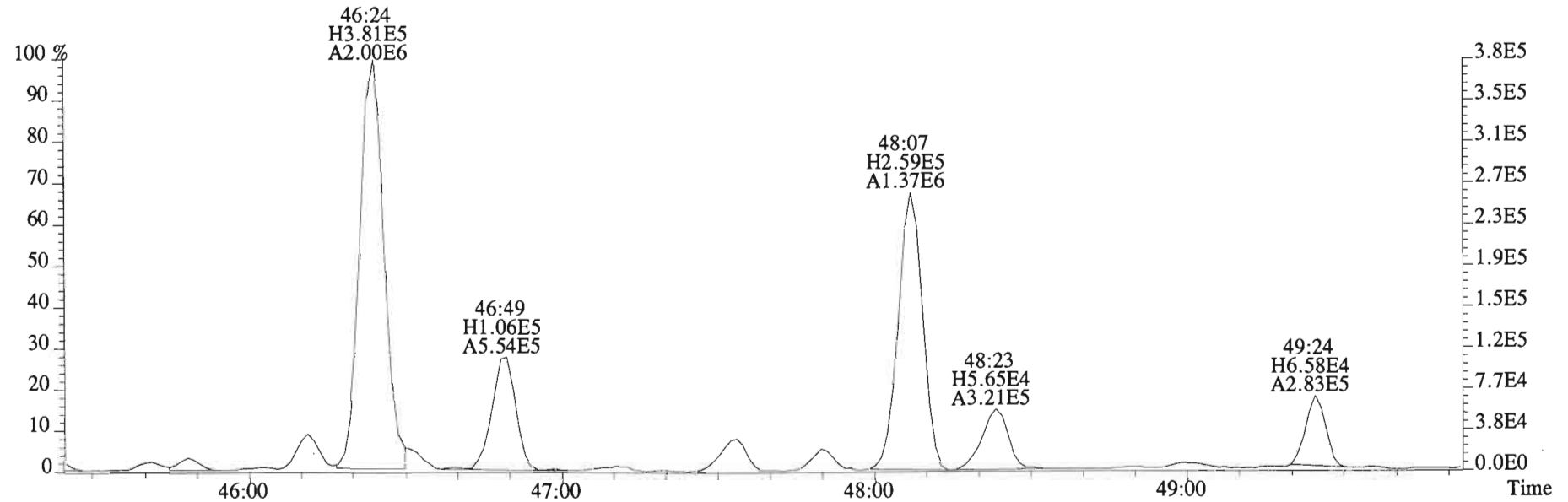
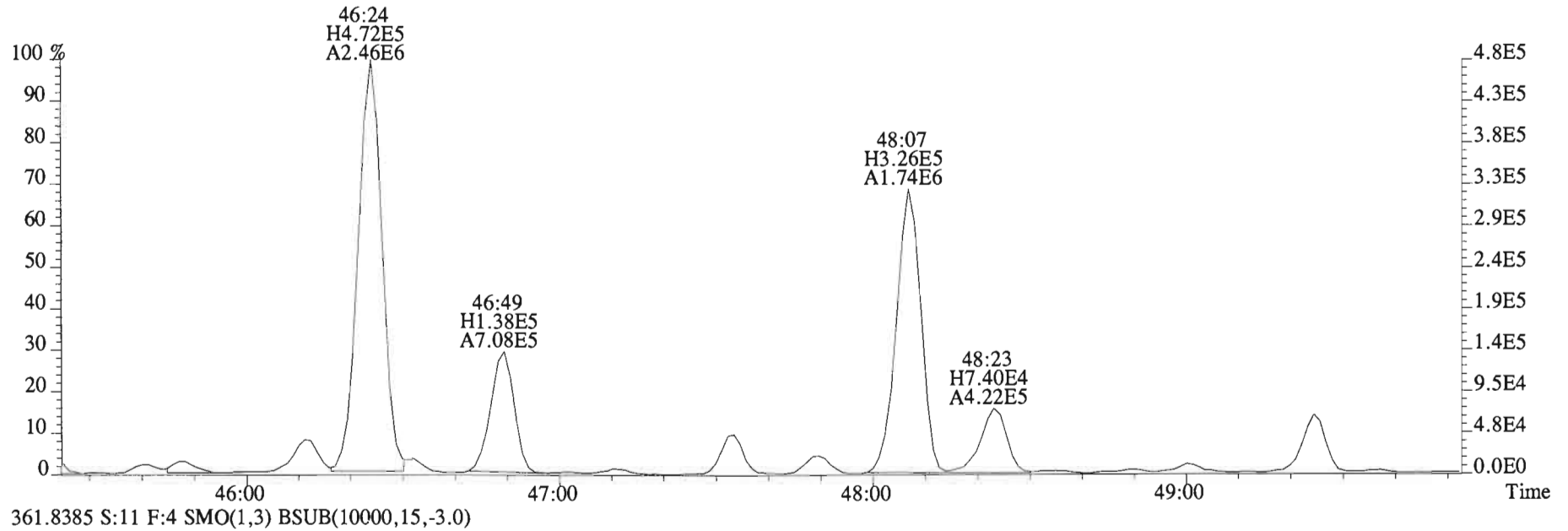
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 359.8415 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0)



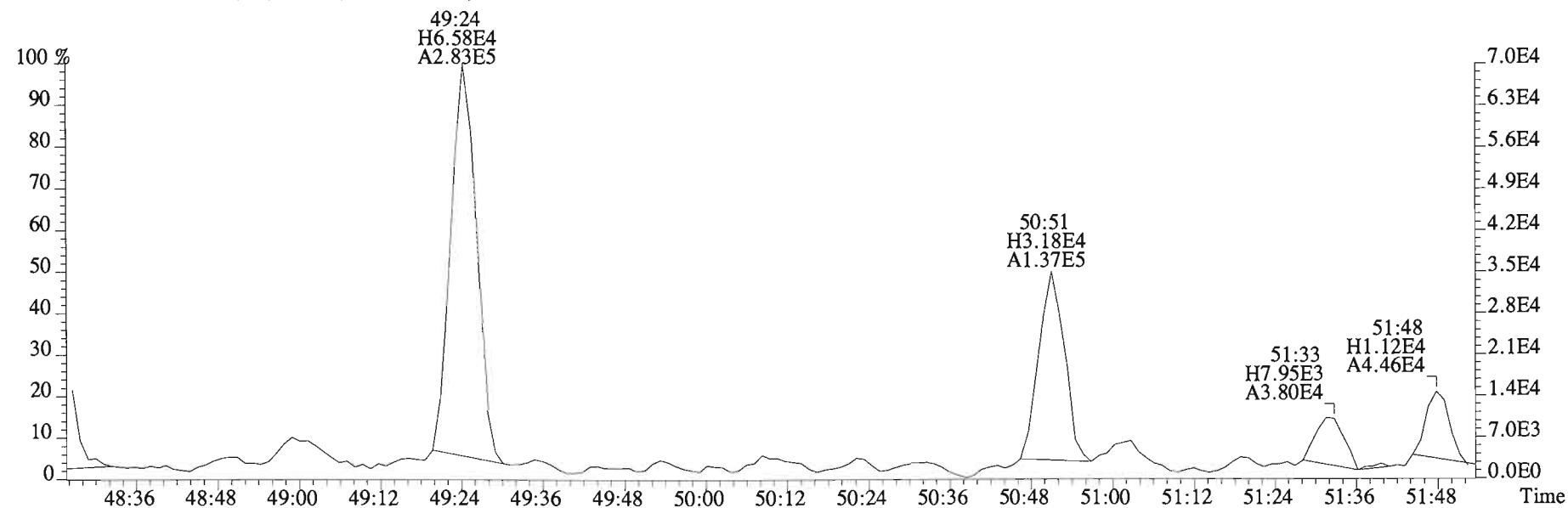
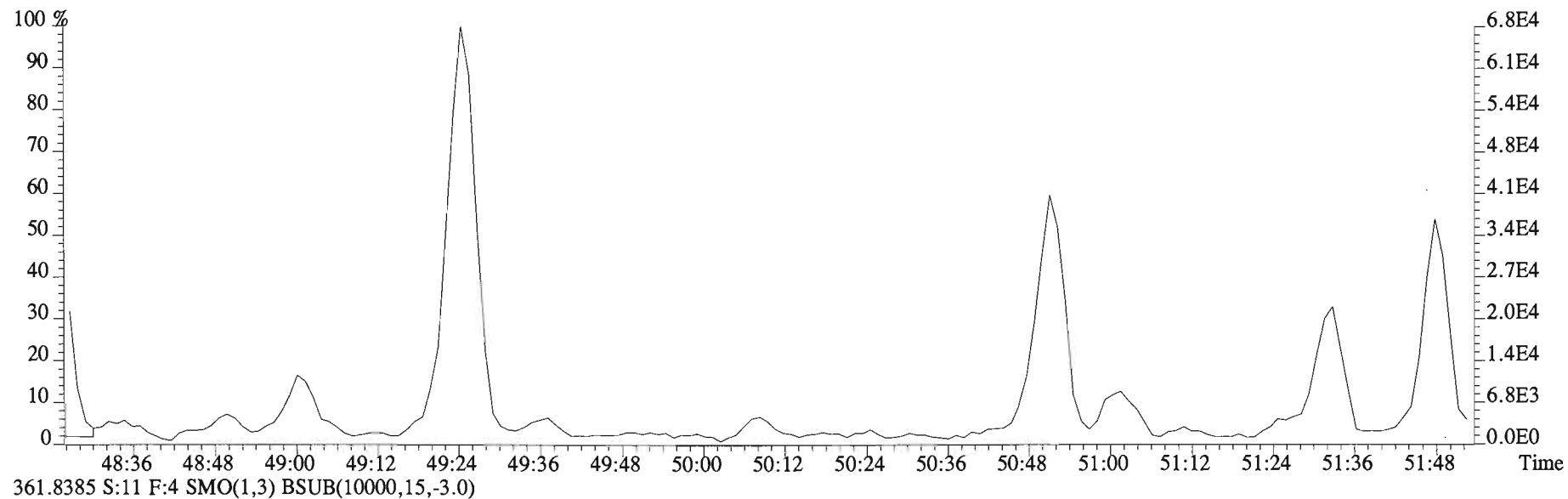
361.8385 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0)



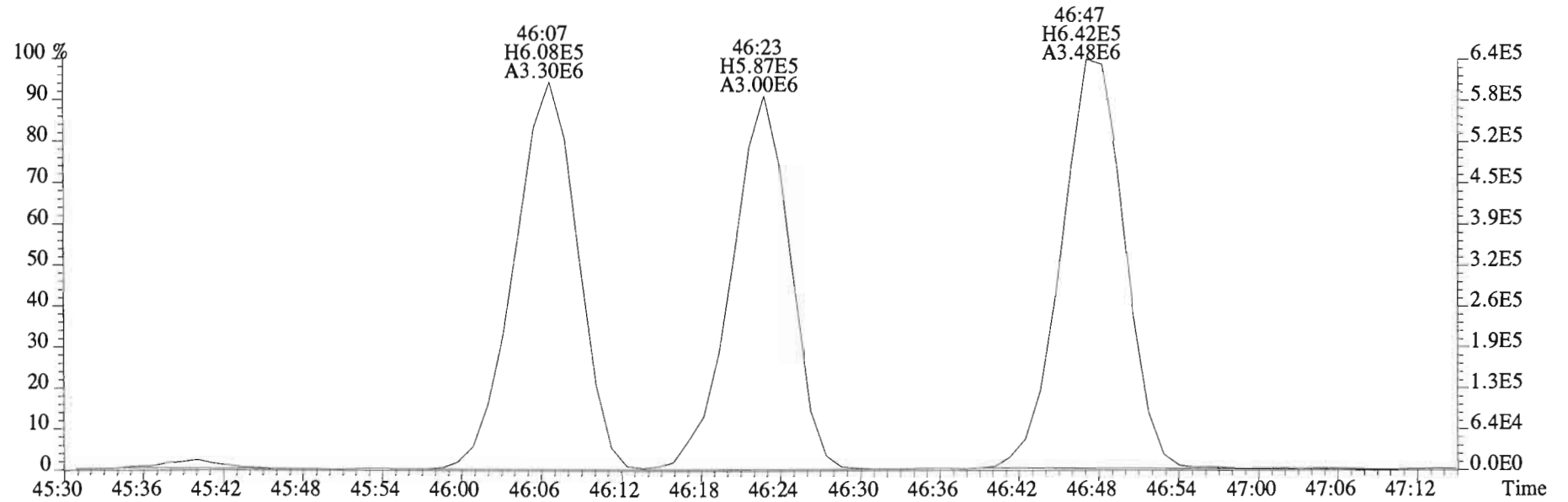
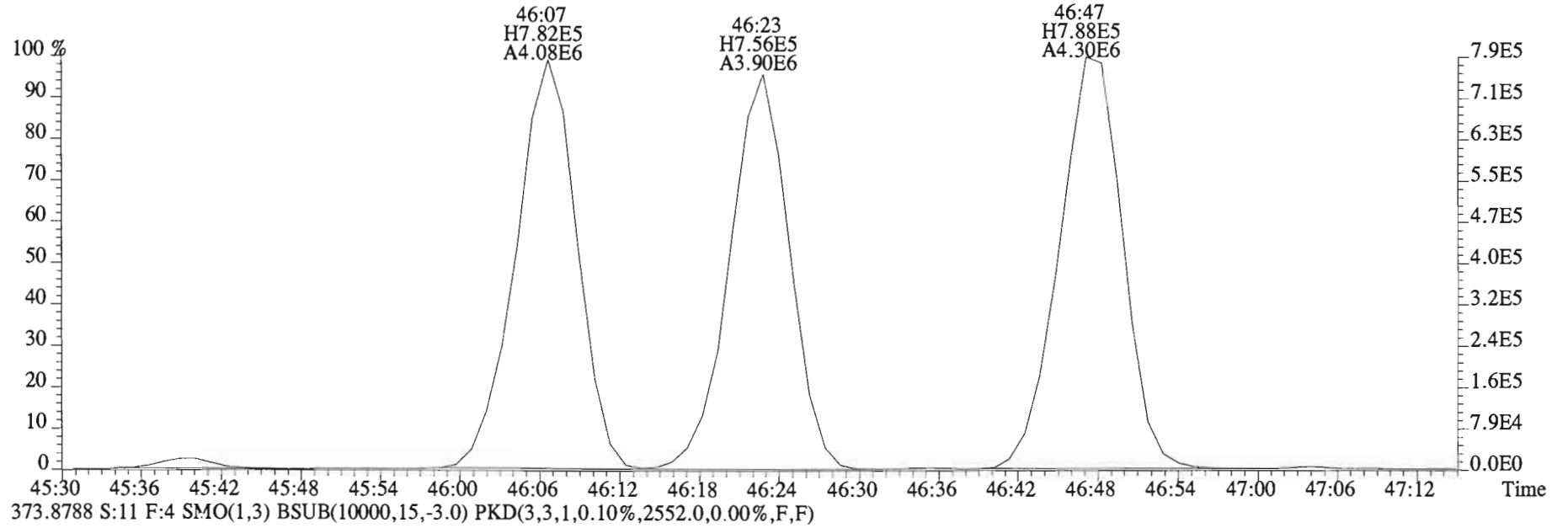
File:150219E2 #1-555 Acq:20-FEB-2015 00:48:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
359.8415 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0)



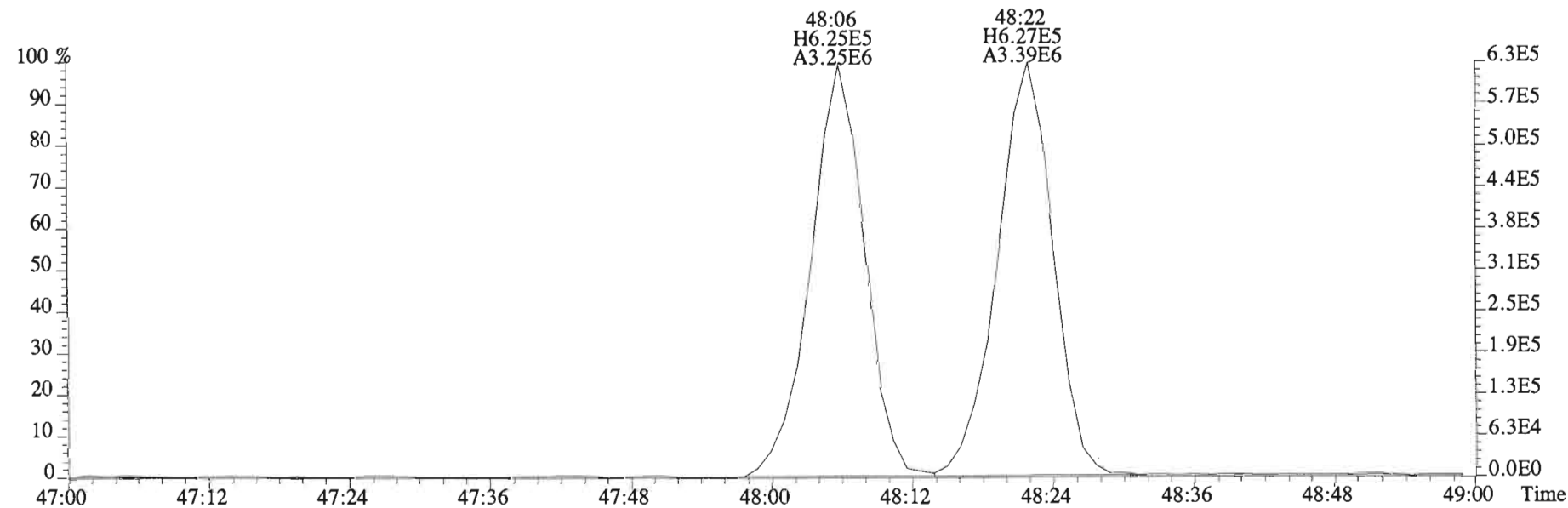
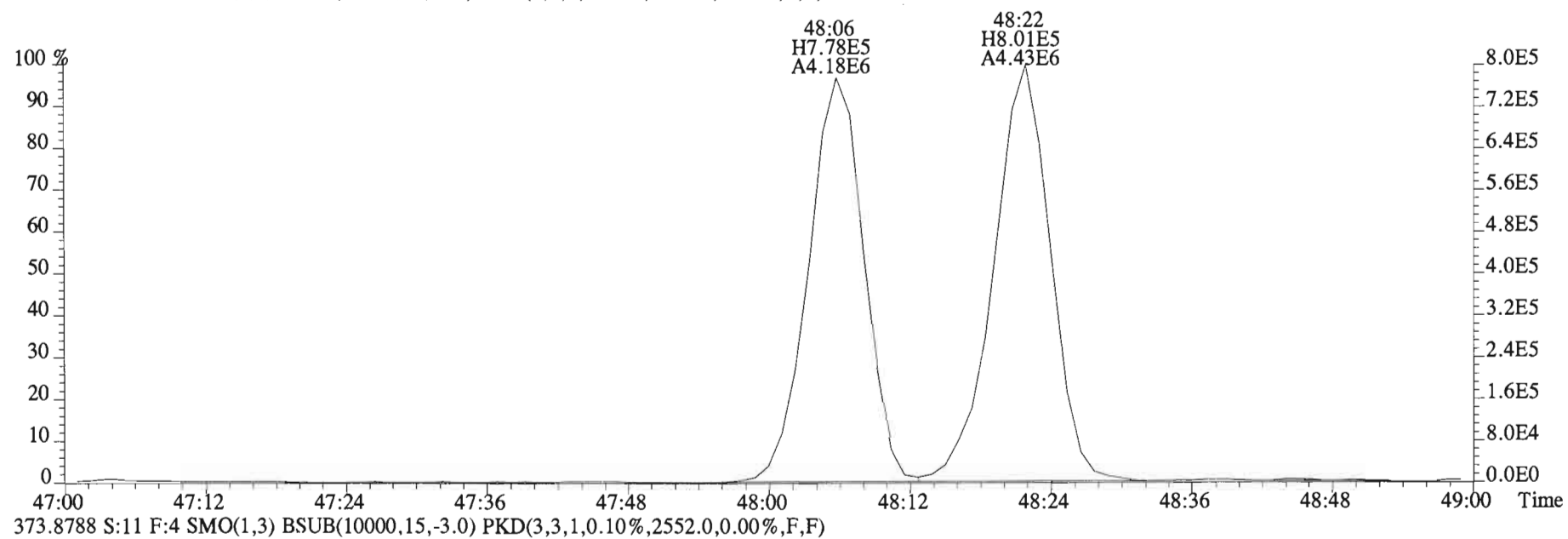
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
359.8415 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0)



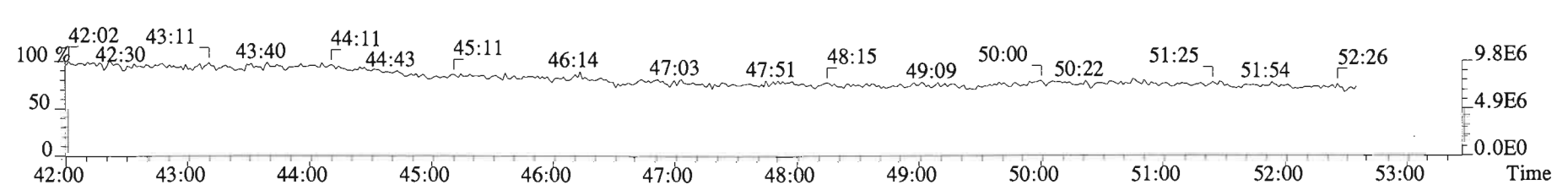
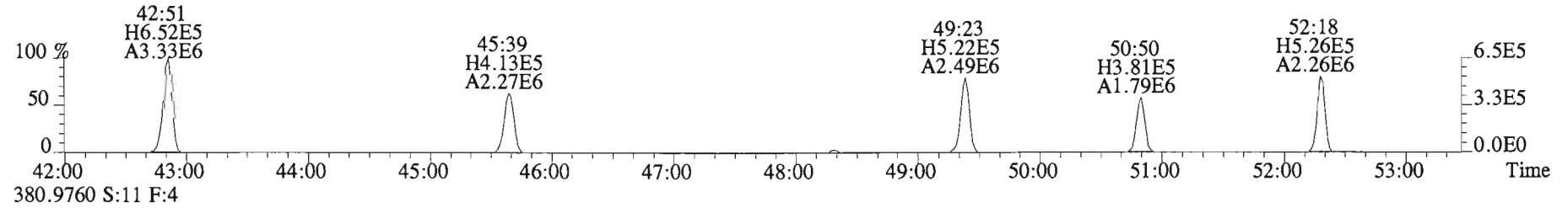
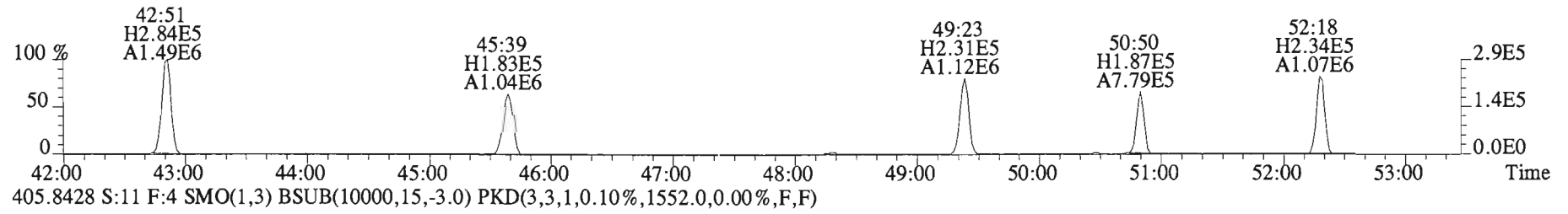
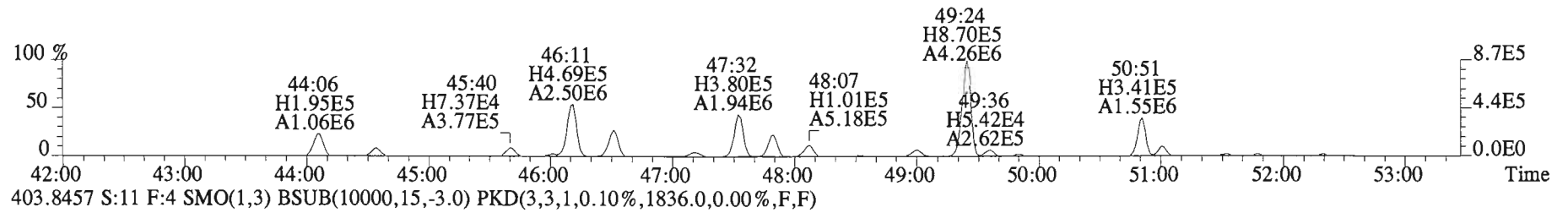
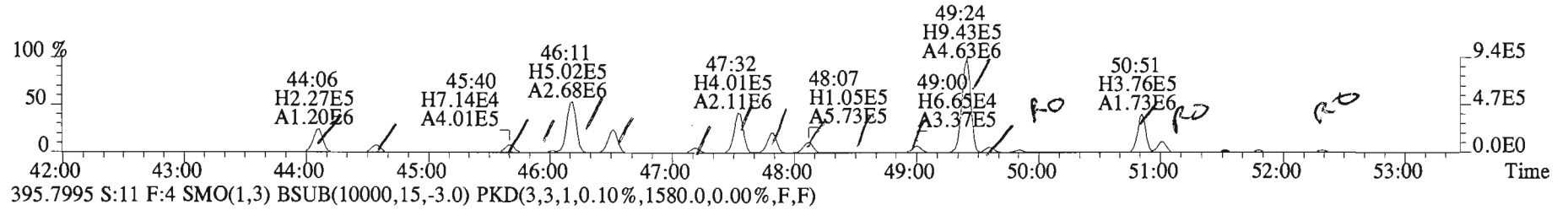
File:150219E2 #1-555 Acq:20-FEB-2015 00:48:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
371.8817 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2636.0,0.00%,F,F)



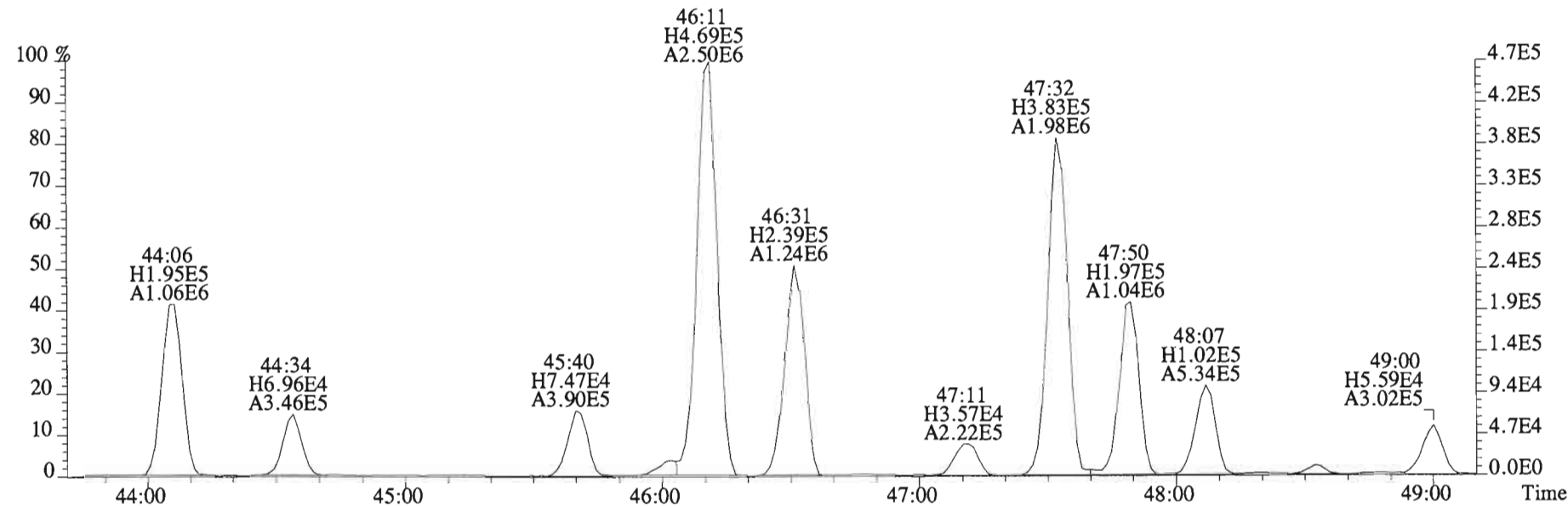
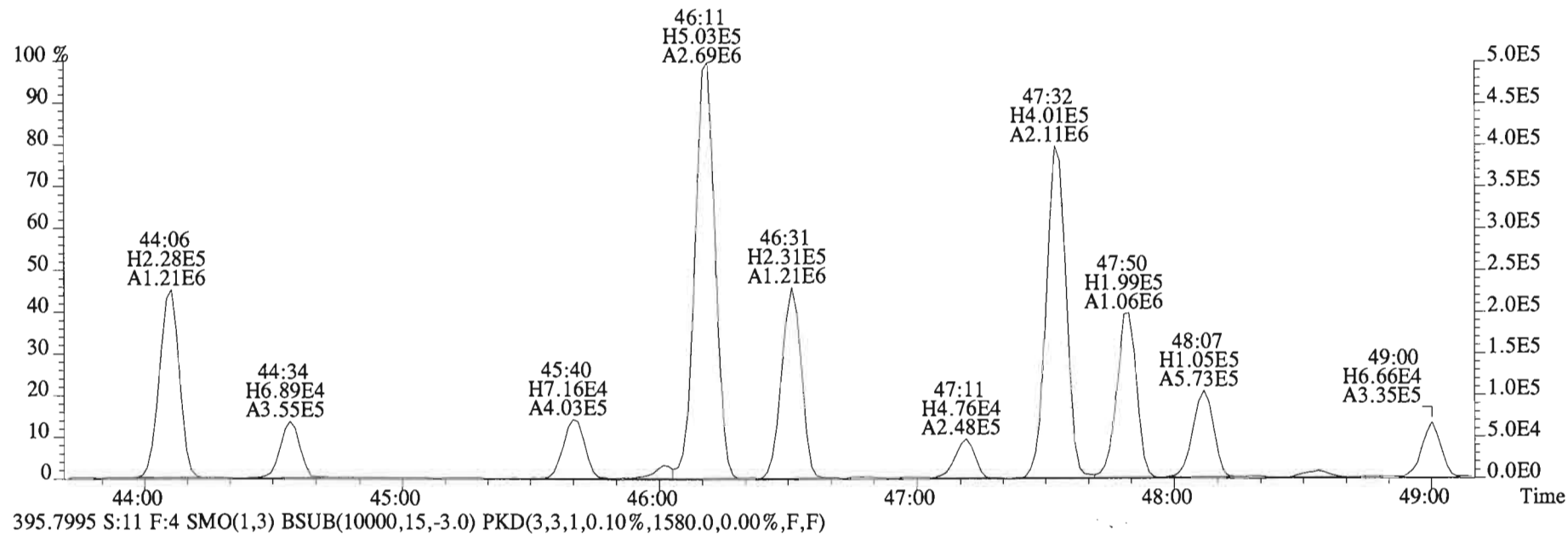
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
371.8817 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2636.0,0.00%,F,F)



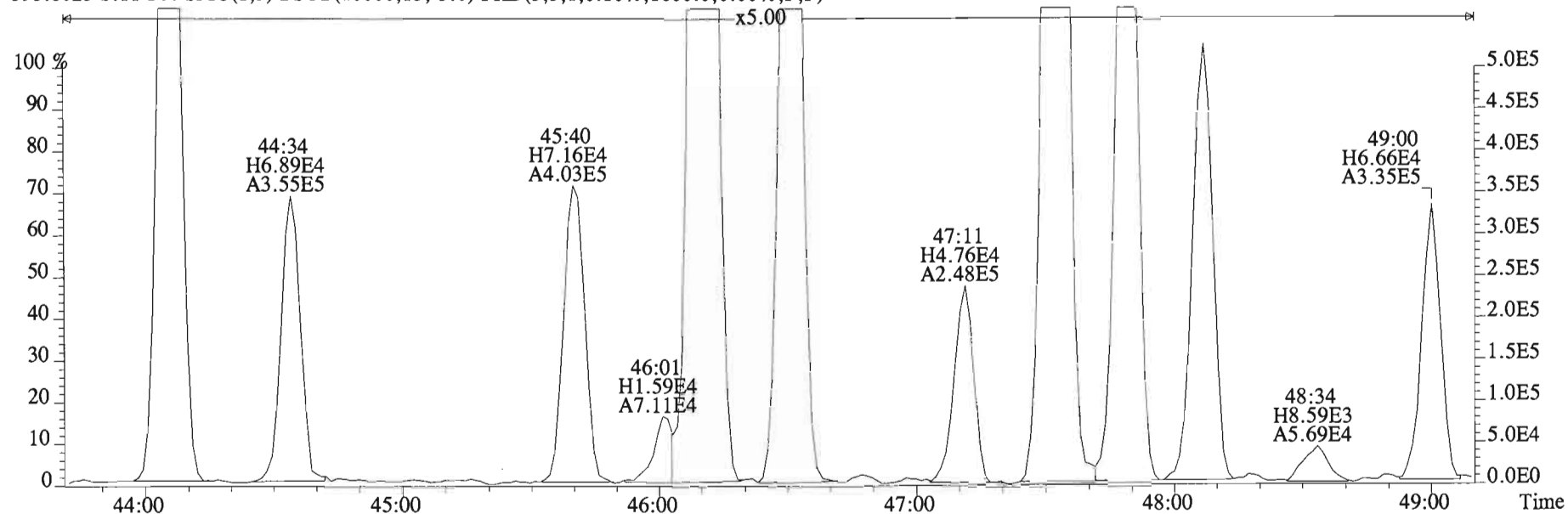
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393.8025 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1600.0,0.00%,F,F)



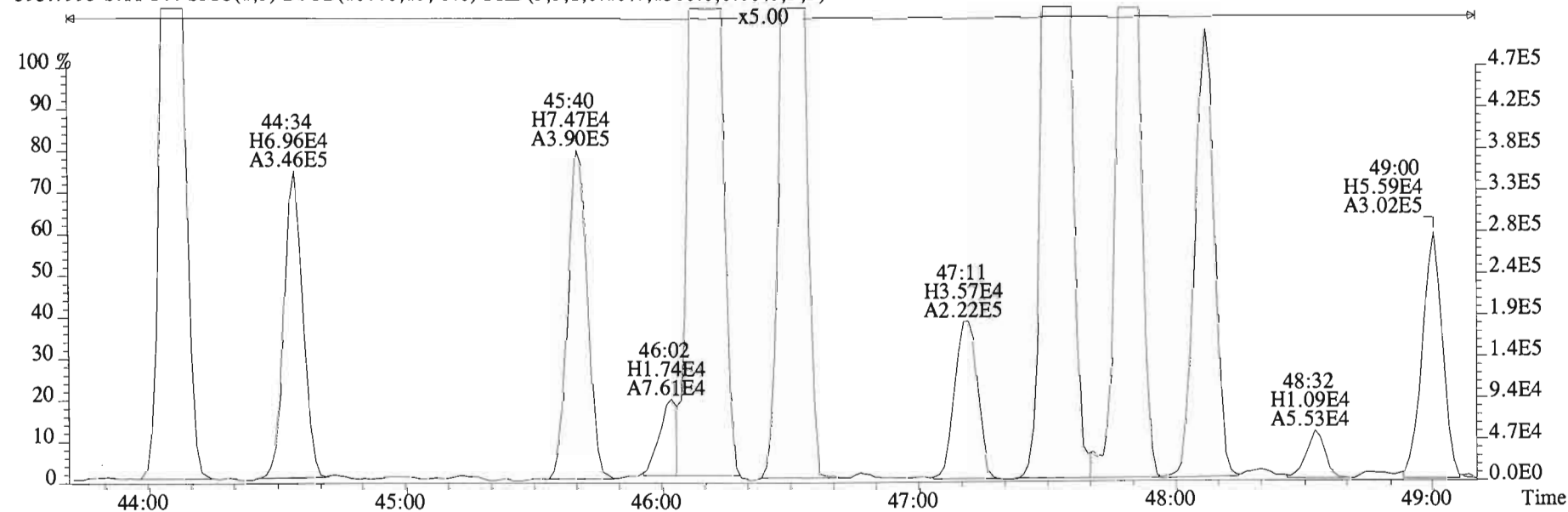
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 Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
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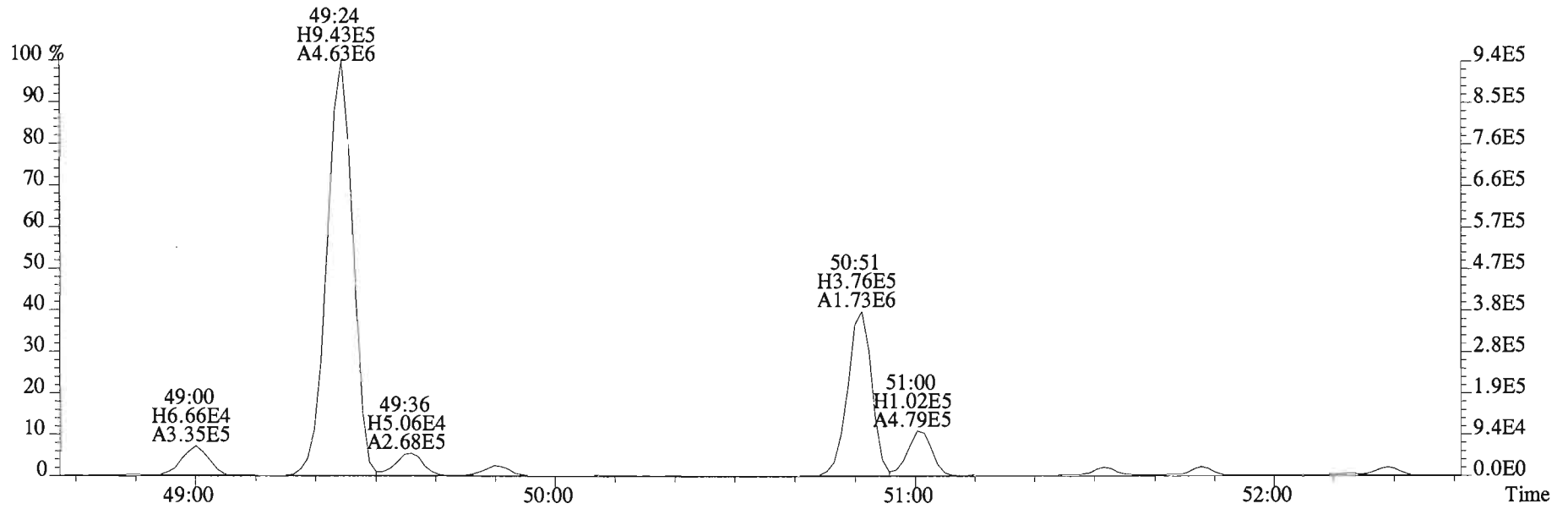
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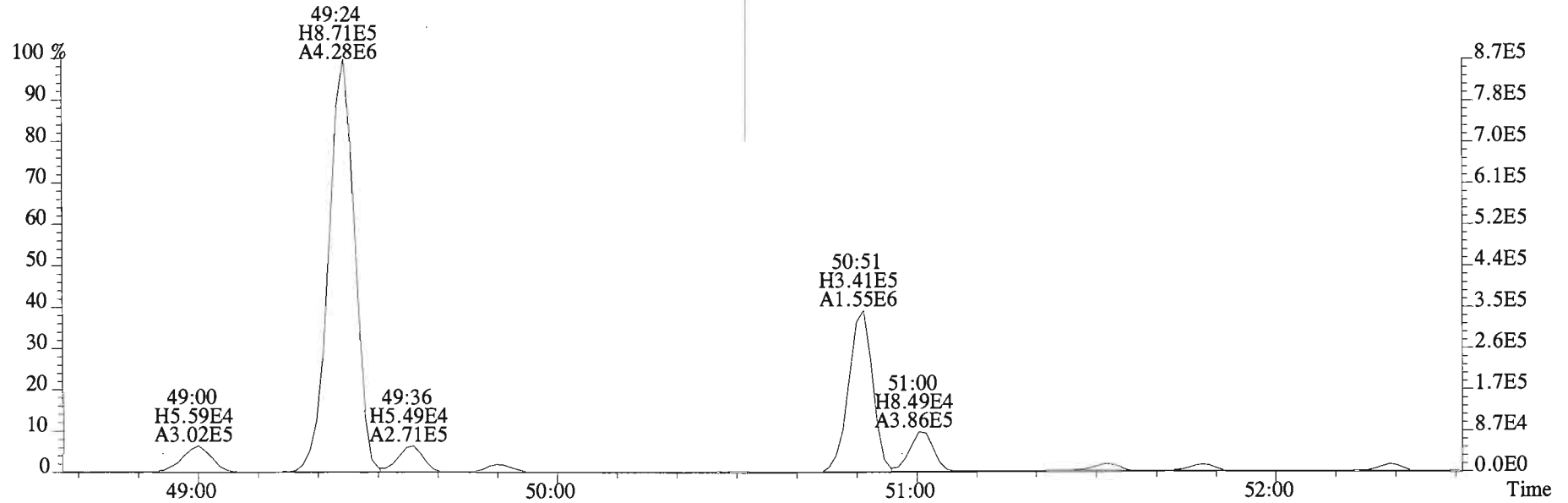
395.7995 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1580.0,0.00%,F,F)



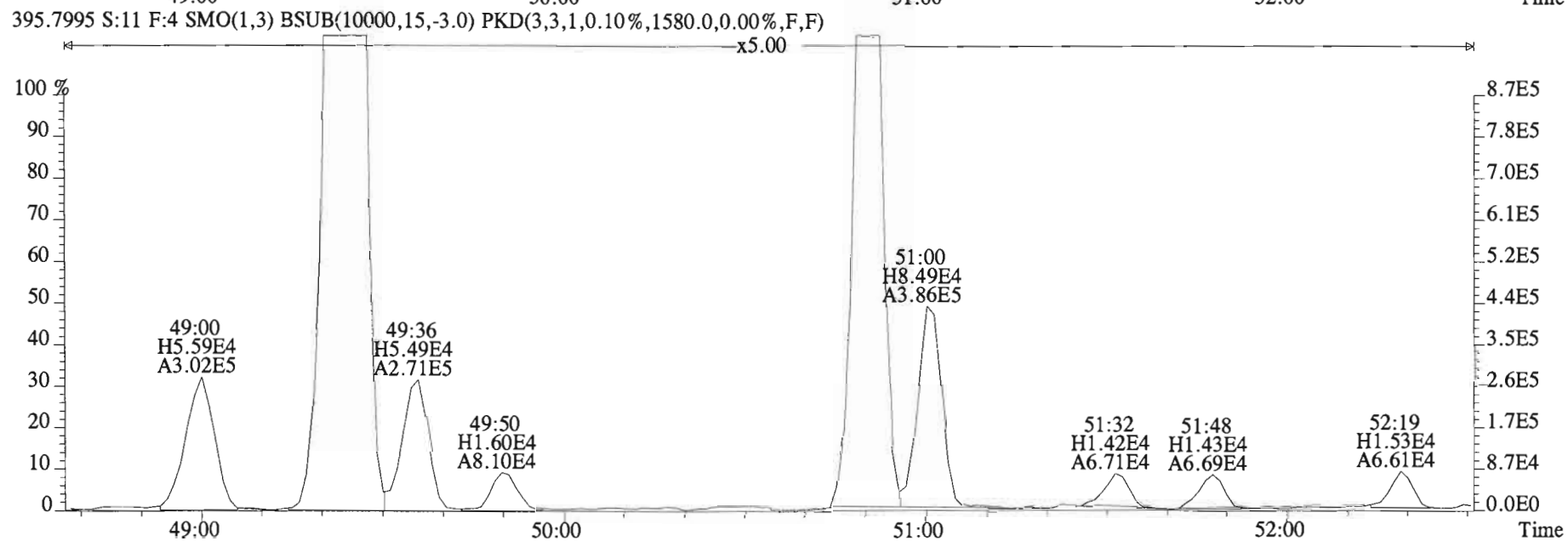
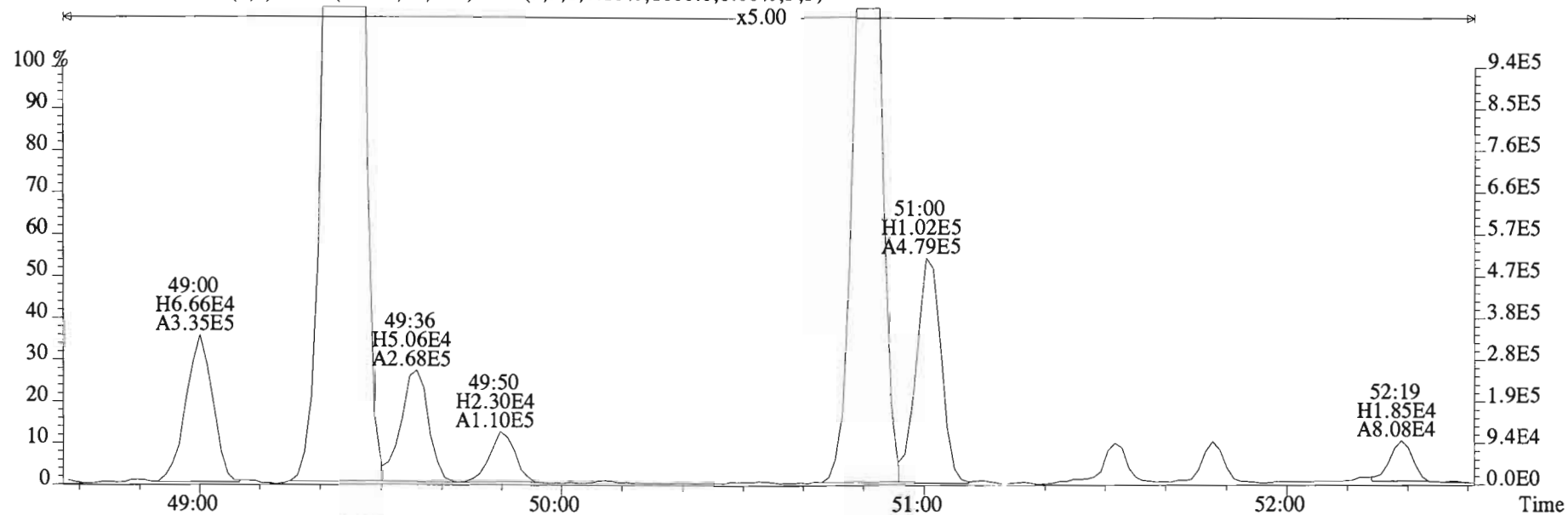
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 Sample#11 File Text: Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
 393.8025 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1600.0,0.00%,F,F)



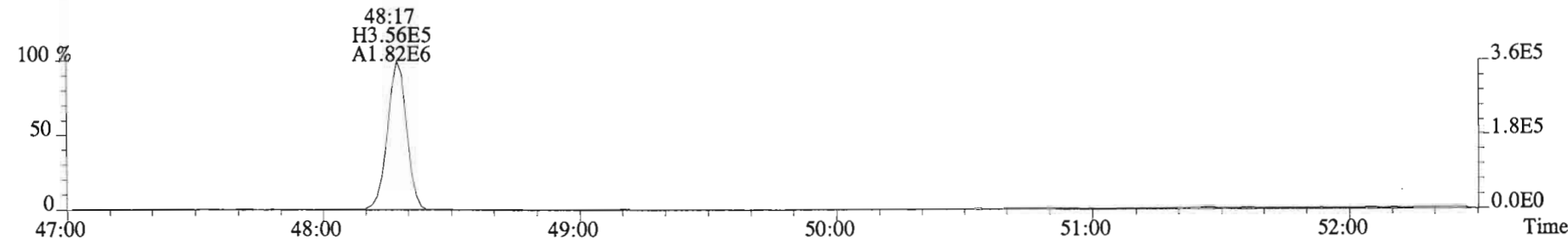
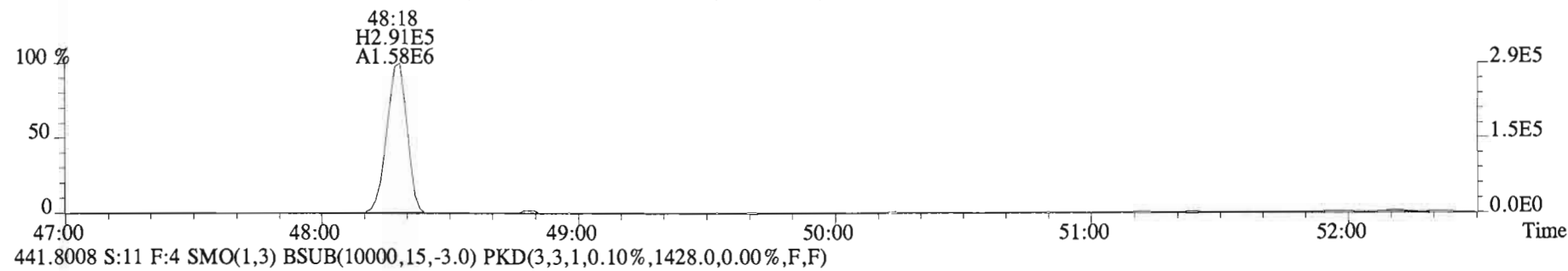
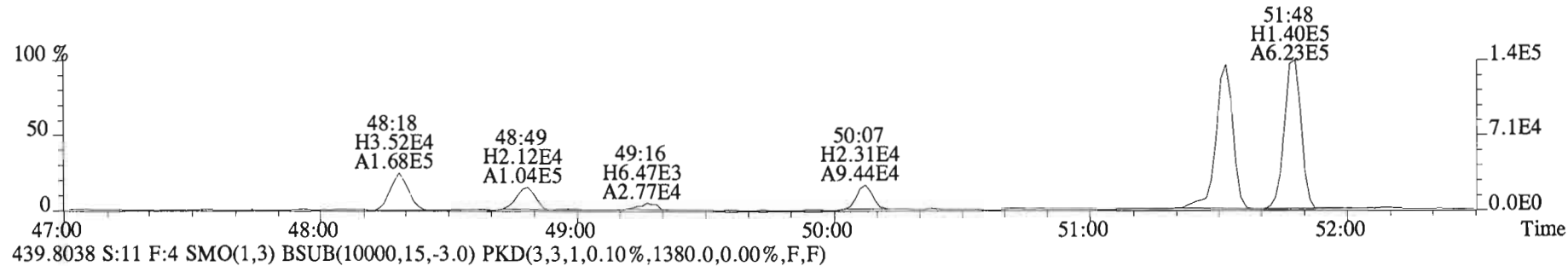
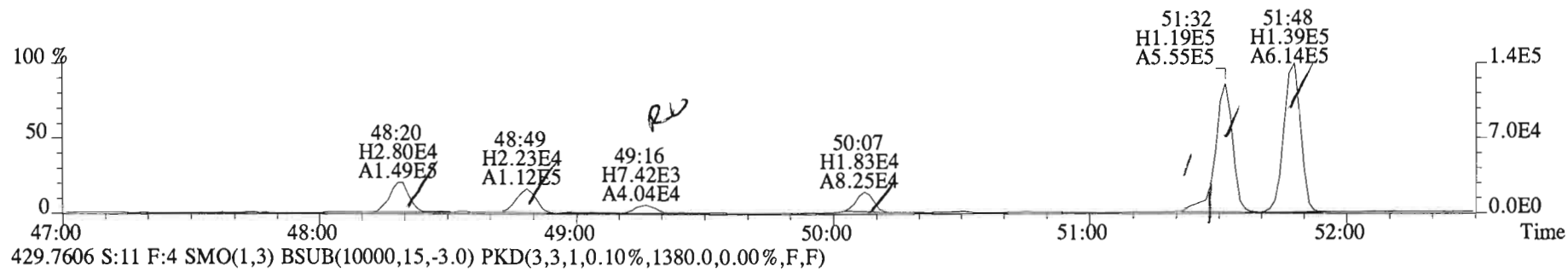
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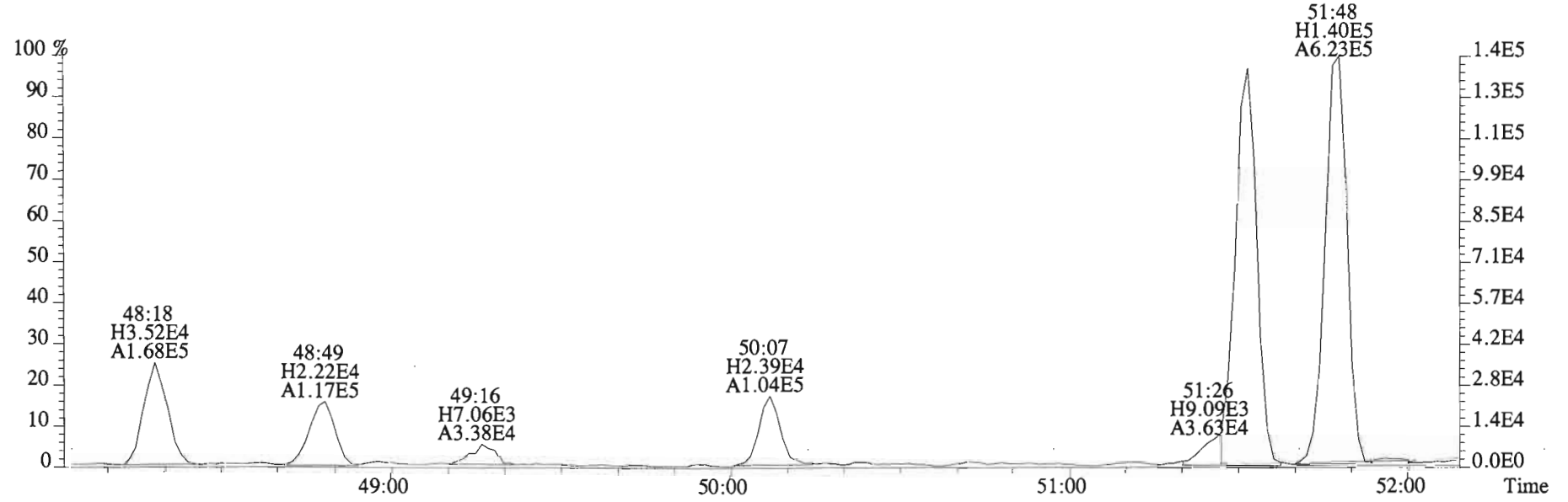
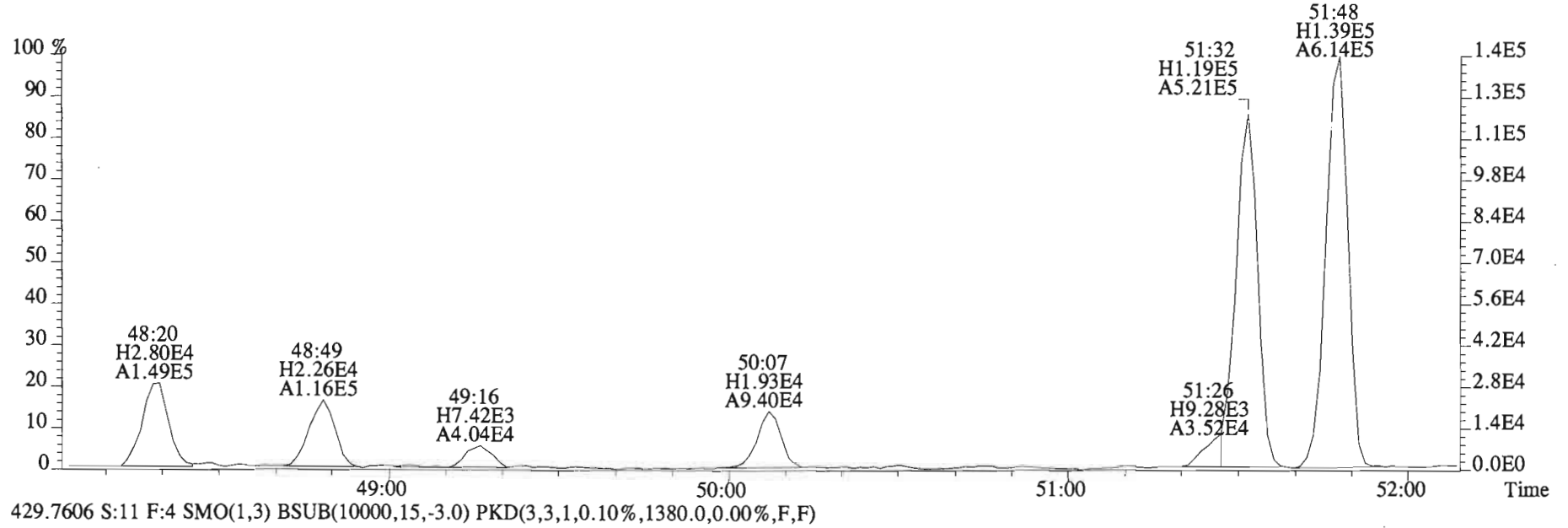
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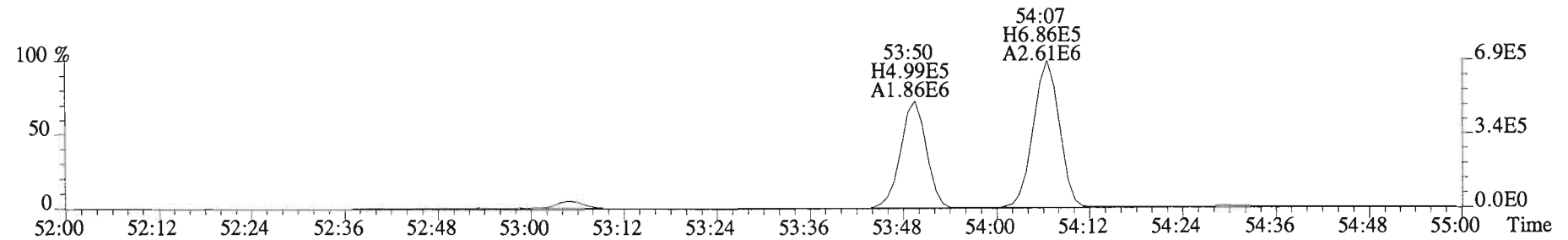
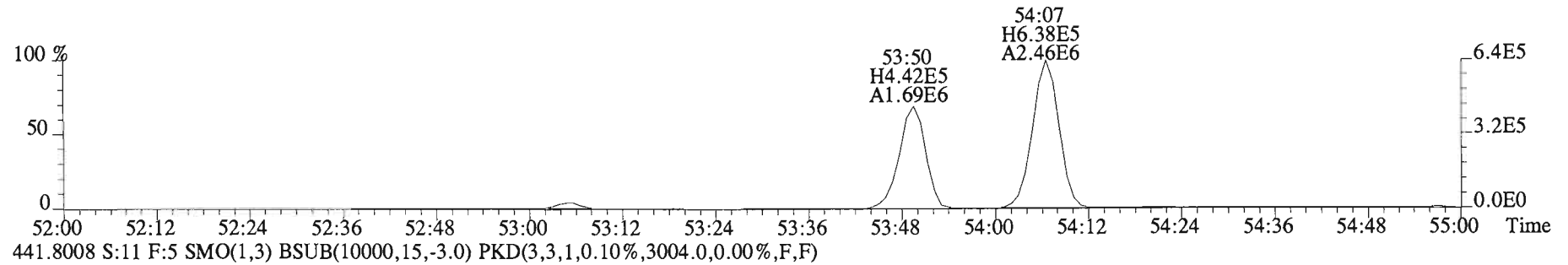
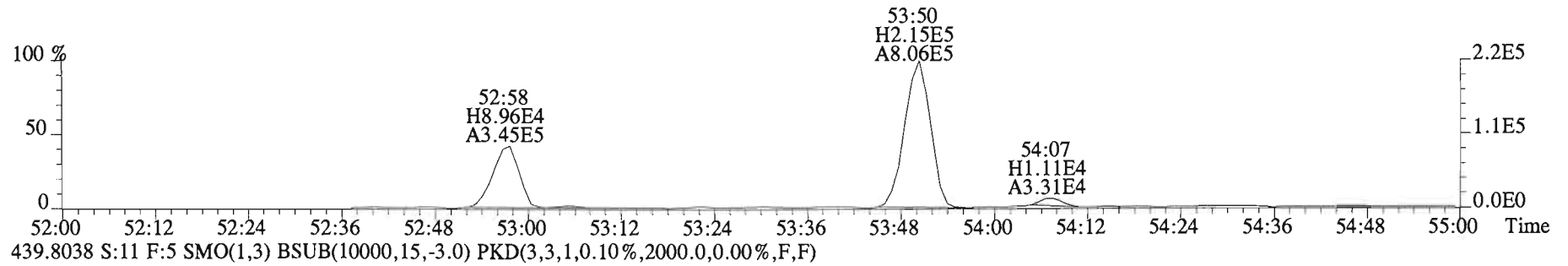
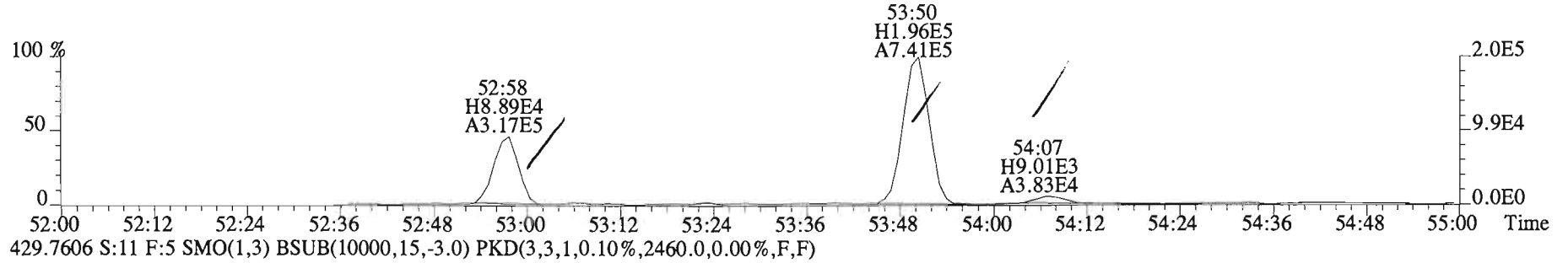
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
427.7635 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1436.0,0.00%,F,F)



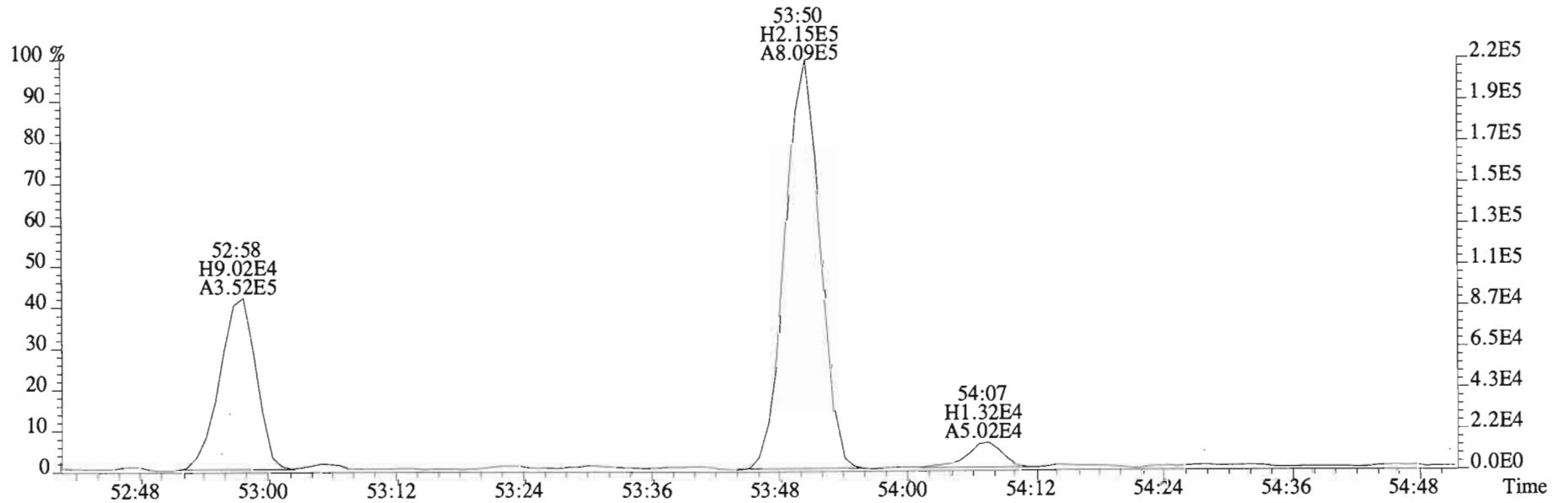
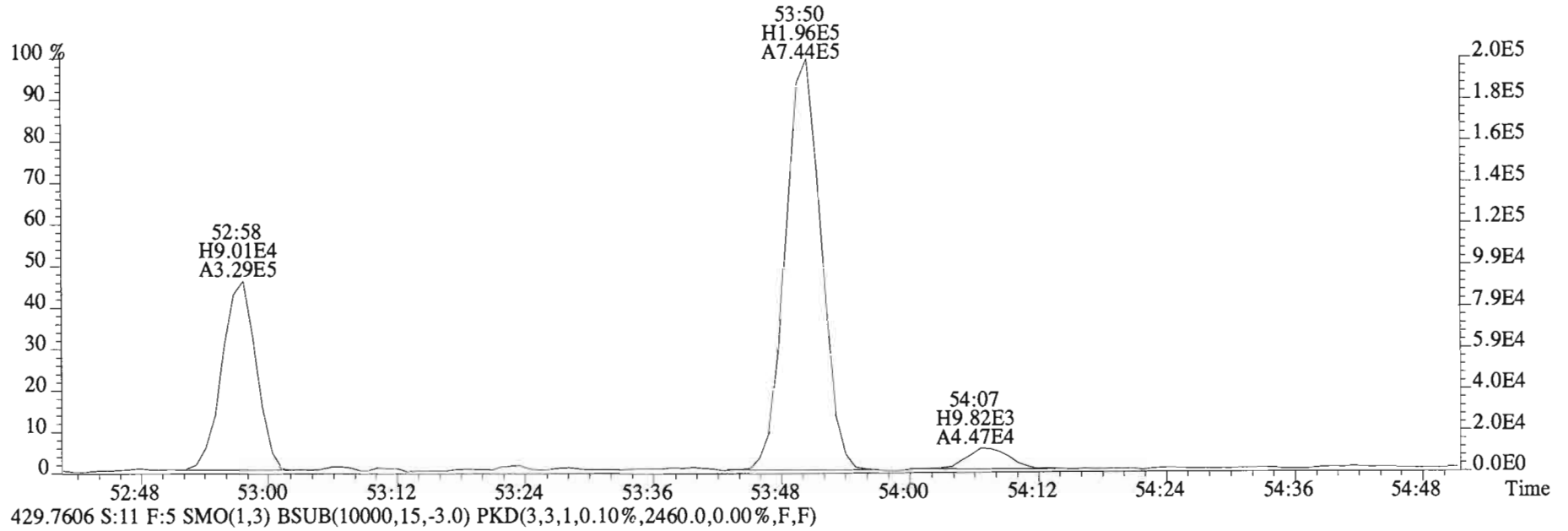
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427.7635 S:11 F:4 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1436.0,0.00%,F,F)



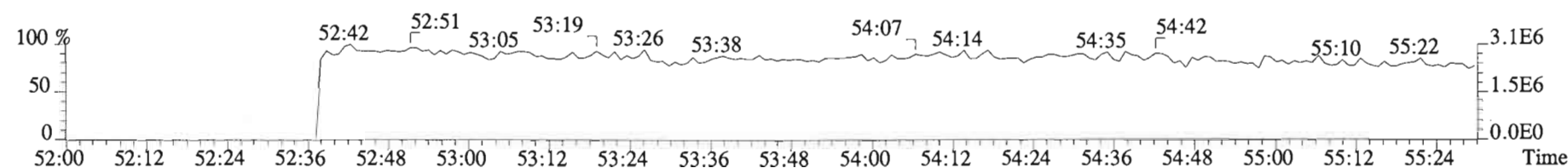
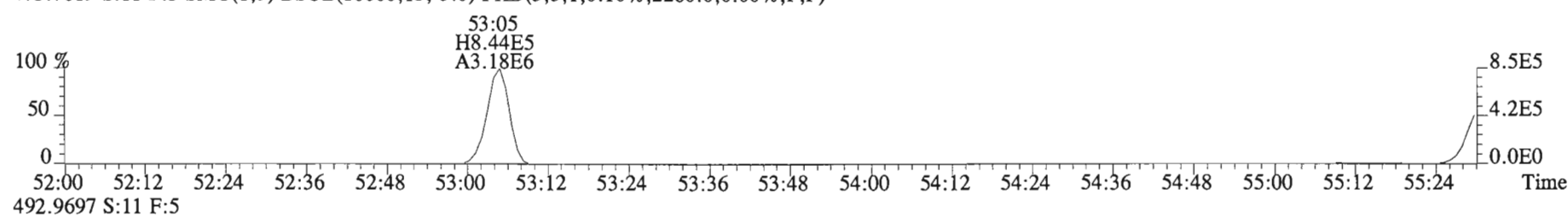
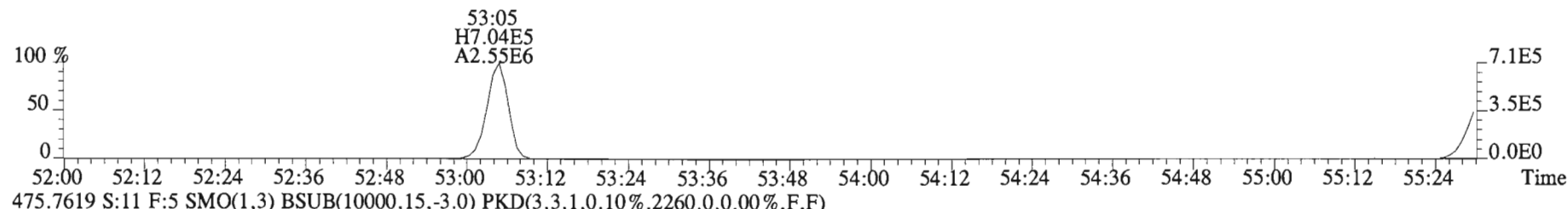
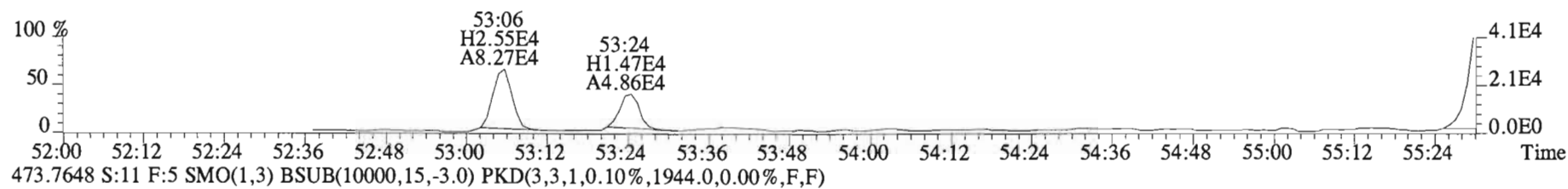
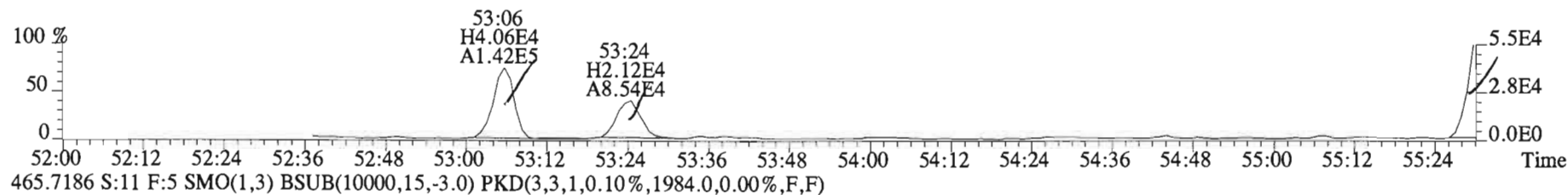
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
427.7635 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2244.0,0.00%,F,F)



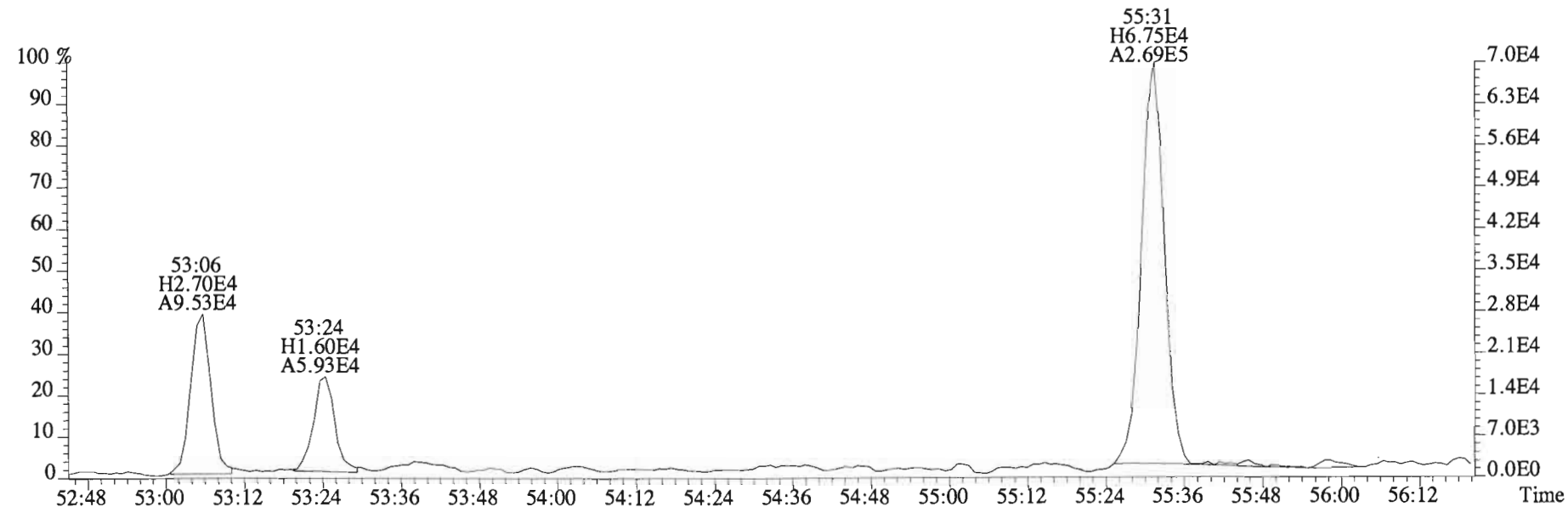
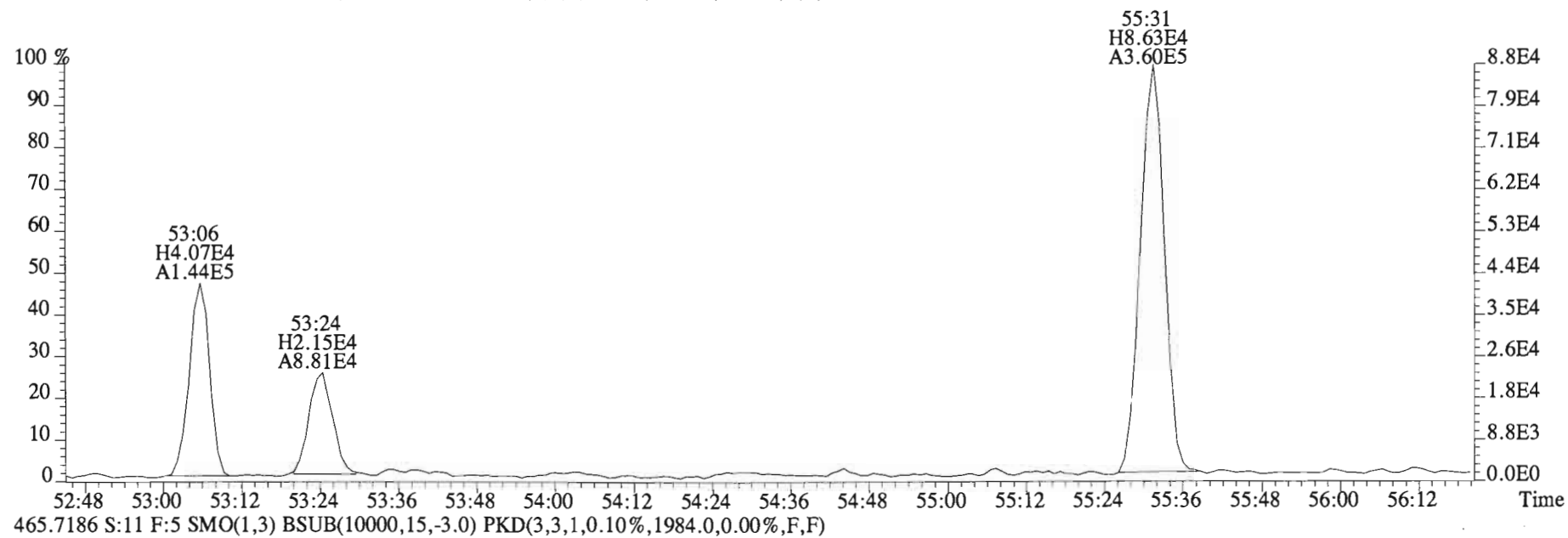
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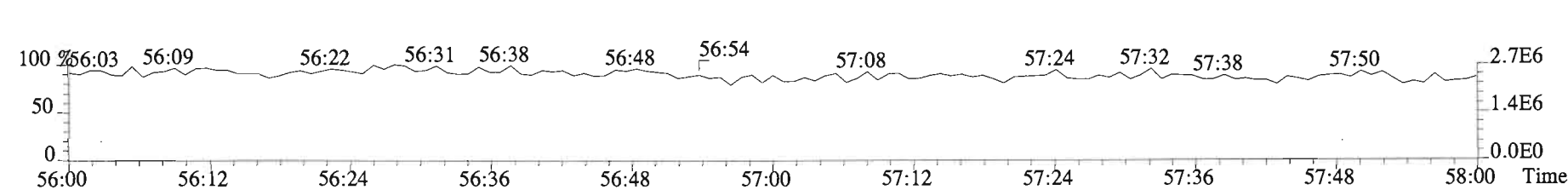
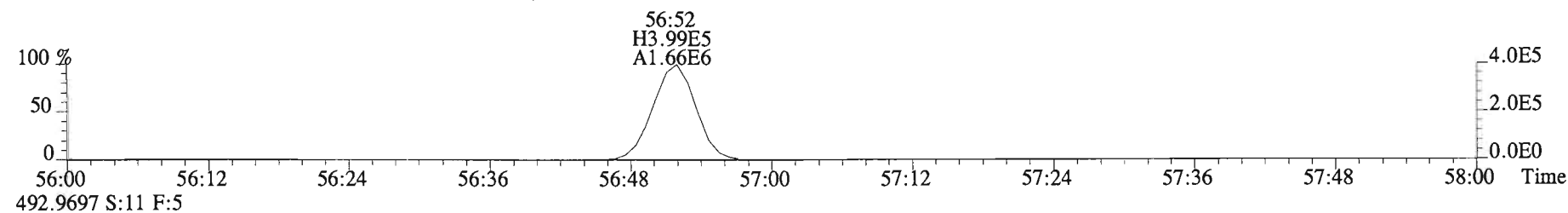
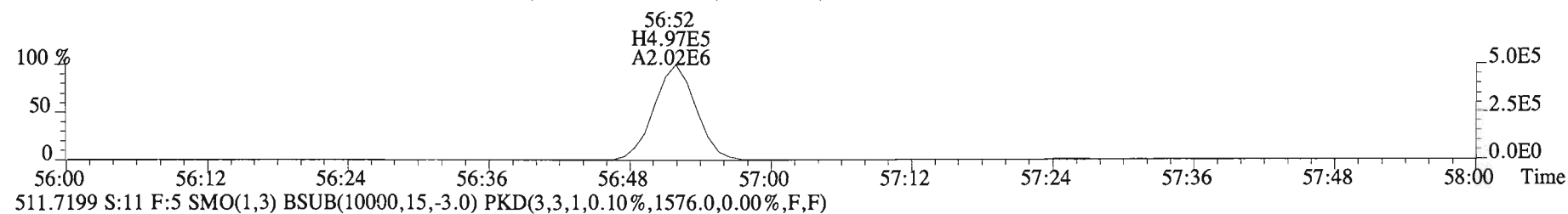
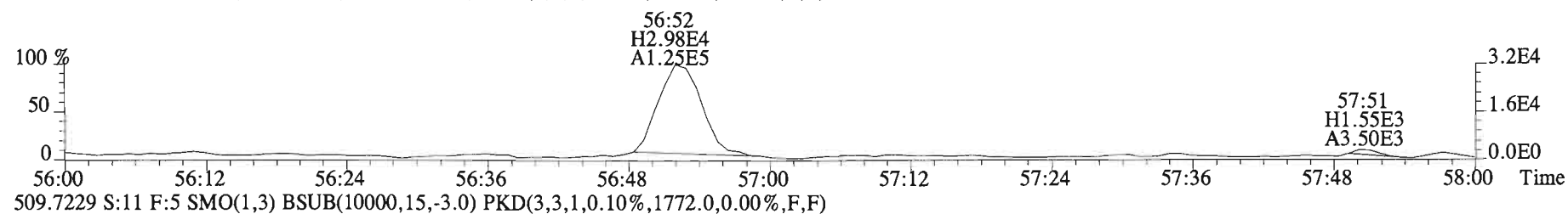
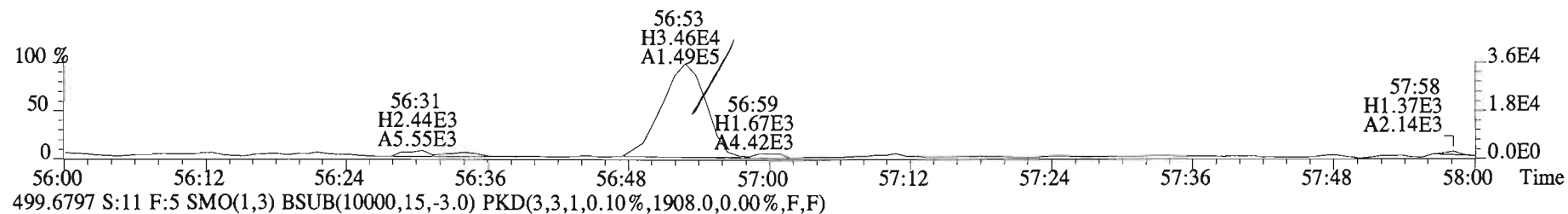
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Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
463.7216 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2036.0,0.00%,F,F)



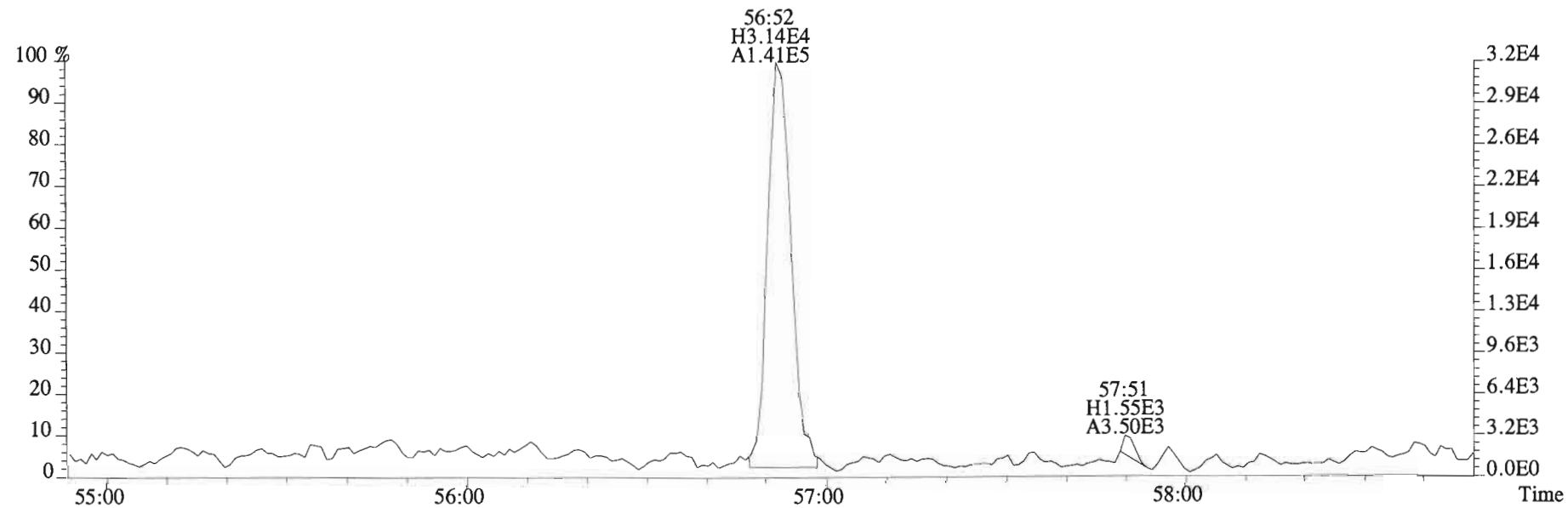
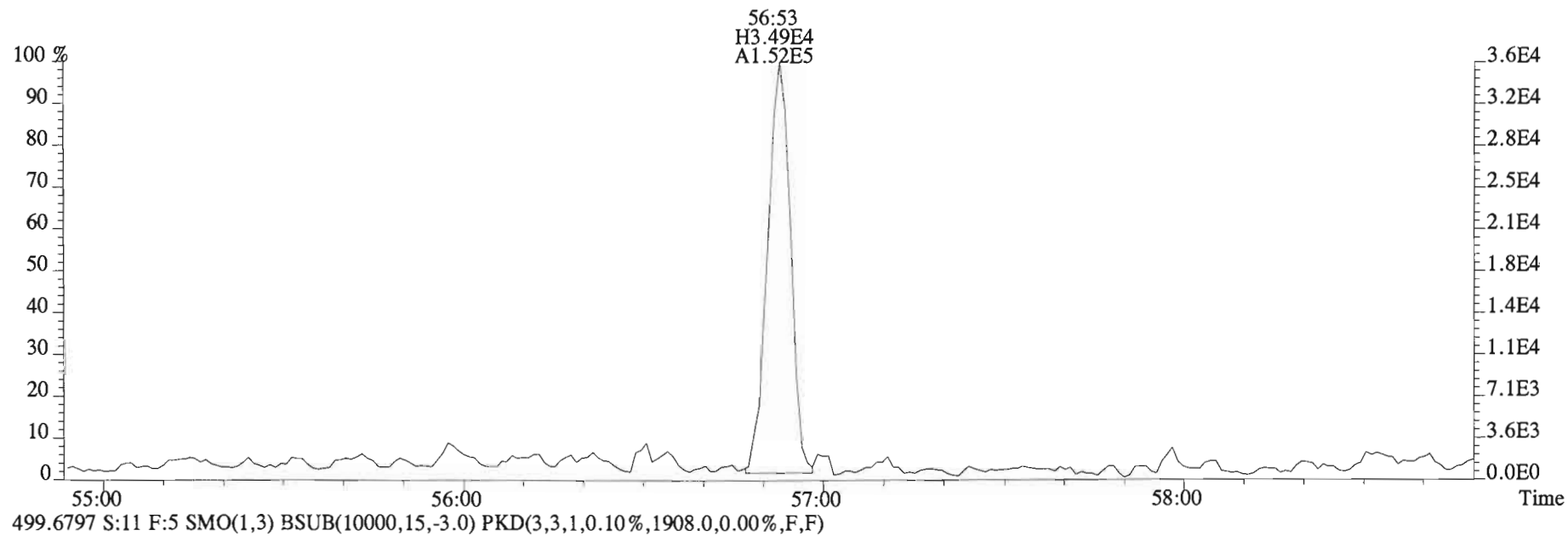
File:150219E2 #1-430 Acq:20-FEB-2015 00:48:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
463.7216 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,2036.0,0.00%,F,F)



File:150219E2 #1-430 Acq:20-FEB-2015 00:48:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
497.6826 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1436.0,0.00%,F,F)



File:150219E2 #1-430 Acq:20-FEB-2015 00:48:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 File Text:Vista Analytical Laboratory VG-8 Text:1500166-05@10X ST-CB-04A-20150210-S Exp:PCB_ZB1
497.6826 S:11 F:5 SMO(1,3) BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,1436.0,0.00%,F,F)



CONFIRMATION

Dataset: C:\MassLynx\Default.pro\Results\150220F1\150220F1_7.qld

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Printed: Friday, February 20, 2015 14:44:27 Pacific Standard Time

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Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Name: 150220F1_7, Date: 20-Feb-2015, Time: 11:44:20, ID: 1500166-04RE1 ST-CB-08-20150210-S CF 20.6, Description: ST-CB-08-20150210-S CF

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	9.29e3	0.83	NO	1.10	10.007	17.55	1.1108		0.143
2	2 13C-2,3,7,8-TCDF	1.52e6	0.76	NO	0.844	10.007	17.51	194.95	97.5	0.416
3	3 13C-1,2,3,4-TCDF	1.85e6	0.78	NO	1.00	10.007	15.29	199.85	100	0.351

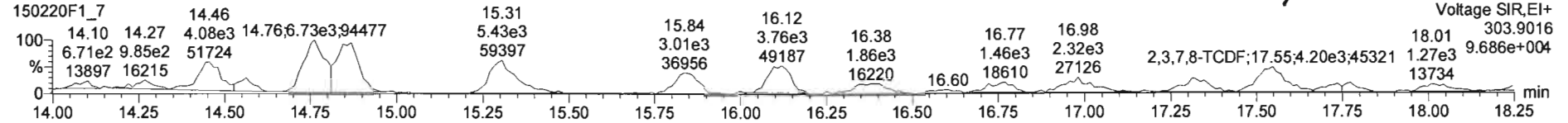
CB 2/20/15
af 2/20/15

Dataset: Untitled

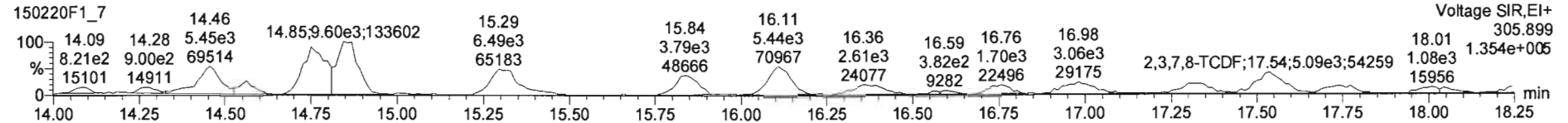
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Printed: Friday, February 20, 2015 13:47:27 Pacific Standard Time

Name: 150220F1_7, Date: 20-Feb-2015, Time: 11:44:20, ID: 1500166-04RE1 ST-CB-08-20150210-S CF 20.6, Description: ST-CB-08-20150210-S CF

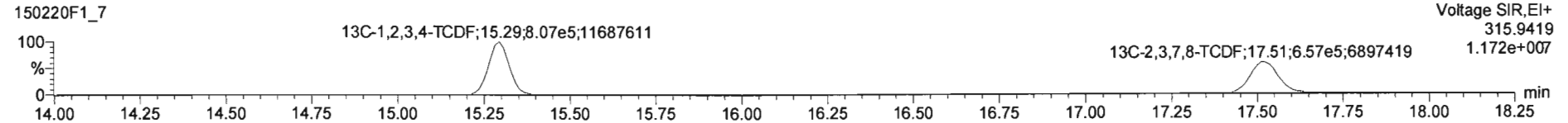
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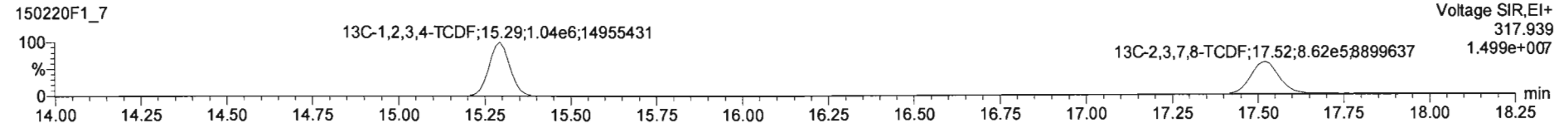
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13C-2,3,7,8-TCDF



13C-2,3,7,8-TCDF



Dataset: Untitled

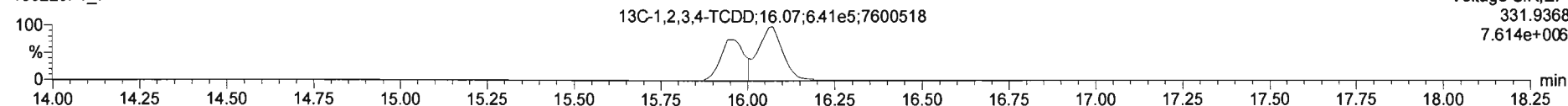
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Printed: Friday, February 20, 2015 13:47:27 Pacific Standard Time

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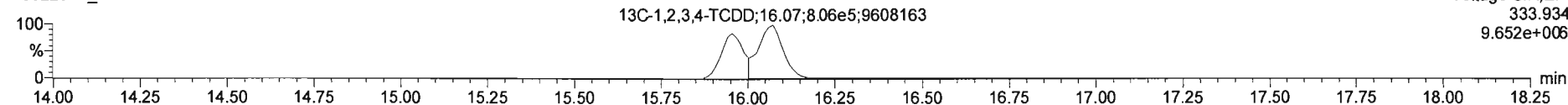
13C-1,2,3,4-TCDD

150220F1_7



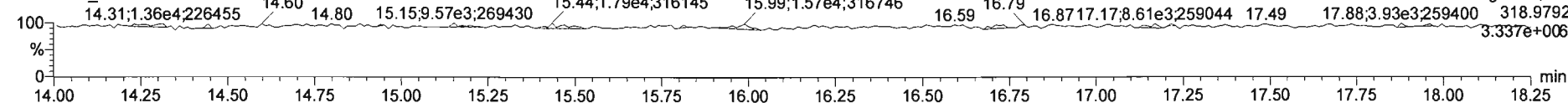
13C-1,2,3,4-TCDD

150220F1_7



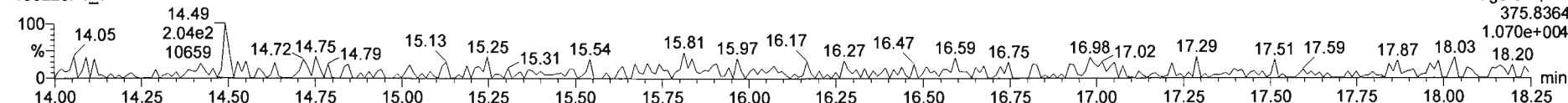
PFK1

150220F1_7



DPE1

150220F1_7



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Printed: Friday, February 20, 2015 14:45:14 Pacific Standard Time

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Name: 150220F1_8, Date: 20-Feb-2015, Time: 12:16:42, ID: 1500166-05RE1 ST-CB-04A-20150210-S CF 16.29, Description: ST-CB-04A-20150210-S CF

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	9.13e3	0.81	NO	1.10	10.271	17.54	1.4116		0.128
2	2 13C-2,3,7,8-TCDF	1.14e6	0.77	NO	0.844	10.271	17.50	178.81	91.8	0.471
3	3 13C-1,2,3,4-TCDF	1.48e6	0.78	NO	1.00	10.271	15.27	194.73	100	0.398

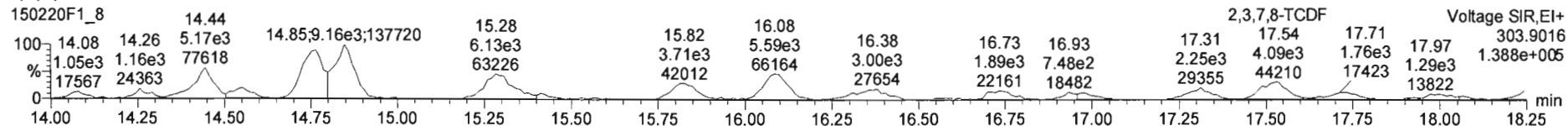
Handwritten: CJ 2/20/15
OK 2/24/15

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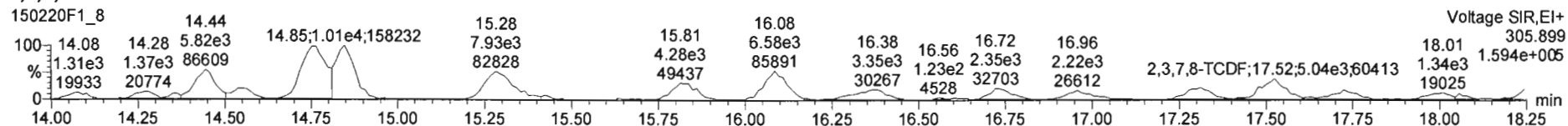
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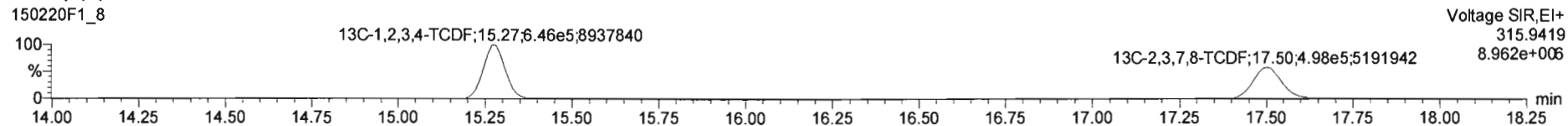
2,3,7,8-TCDF



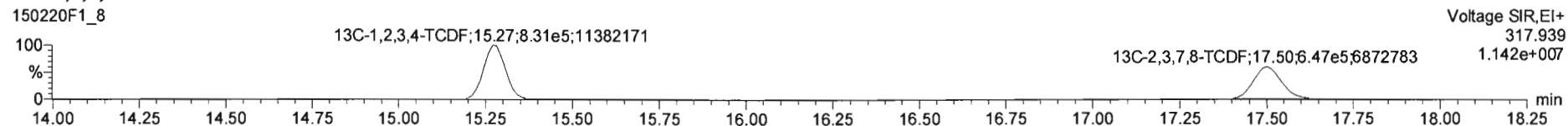
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



13C-2,3,7,8-TCDF



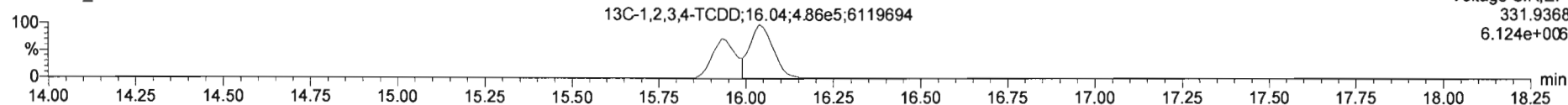
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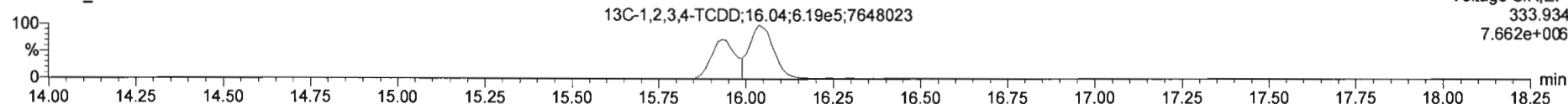
13C-1,2,3,4-TCDD

150220F1_8



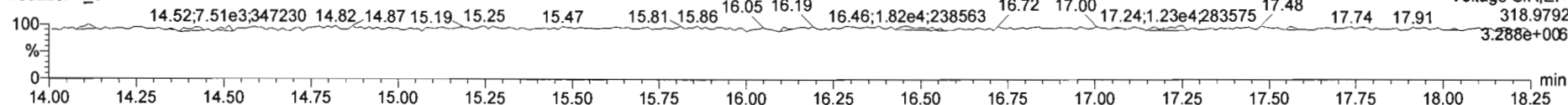
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150220F1_8



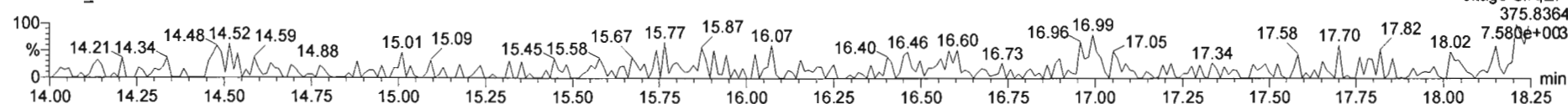
PFK1

150220F1_8



DPE1

150220F1_8



CONTINUING CALIBRATION

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

CCAL ID: ST150219D1-1

Contract No.: SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 150219D1 S#1 Analysis Date: 19-FEB-15 Time: 11:57:35

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			
2,3,7,8-TCDD	M/M+2	0.76	0.65-0.89	y	8.85	7.8 - 12.9
1,2,3,7,8-PeCDD	M/M+2	0.61	0.54-0.72	y	46.6	8.2 - 12.3 (4) 39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	49.4	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	51.0	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.25	1.05-1.43	y	50.0	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	49.1	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	98.4	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	8.75	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	47.9	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	48.0	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	49.4	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	50.2	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	49.8	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.30	1.05-1.43	y	49.0	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.09	0.88-1.20	y	49.7	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.08	0.88-1.20	y	50.4	43.0 - 58.0
OCDF	M+2/M+4	0.92	0.76-1.02	y	99.5	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: MM

Date: 2/19/15

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: 150219D1 S#1 Analysis Date: 19-FEB-15 Time: 11:57:35

LABELLED 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	99.2	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	79.9	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	97.7	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	97.1	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	96.7	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.08	0.88-1.20	y	98.9	72.0 - 138.0
13C-OCDD	M/M+2	0.89	0.76-1.02	y	169	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.77	0.65-0.89	y	99.8	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	92.5	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	89.3	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	96.0	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	102	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	98.0	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	98.3	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	0.45	0.37-0.51	y	94.8	77.0 - 129.0
13C-OCDF	M+2/M+4	0.89	0.76-1.02	y	174	96.0 - 415.0
CLEANUP STANDARD (3) 37Cl-2,3,7,8-TCDD					10.3	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: 2/19/15

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: 150219D1 S#1 Analysis Date: 19-FEB-15 Time: 11:57:35

ZB-5MS IS Data Filename: 150219D1 S#1 Analysis Date: 19-FEB-15 Time: 11:57:35

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)	23:23	1,3,6,8-TCDF (F)	21:11
1,2,8,9-TCDD (L)	27:52	1,2,8,9-TCDF (L)	28:00
1,2,4,7,9-PeCDD (F)	29:31	1,3,4,6,8-PeCDF (F)	27:58
1,2,3,8,9-PeCDD (L)	31:59	1,2,3,8,9-PeCDF (L)	32:13
1,2,4,6,7,9-HxCDD (F)	33:25	1,2,3,4,6,8-HxCDF (F)	32:53
1,2,3,7,8,9-HxCDD (L)	35:22	1,2,3,7,8,9-HxCDF (L)	35:44
1,2,3,4,6,7,9-HpCDD (F)	37:59	1,2,3,4,6,7,8-HpCDF (F)	37:35
1,2,3,4,6,7,8-HpCDD (L)	38:53	1,2,3,4,7,8,9-HpCDF (L)	39:26

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: ms

Date: 2/19/15

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: 150219D1 S#1 Analysis Date: 19-FEB-15 Time: 11:57:35

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		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

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

LABELED COMPOUNDS

13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.198	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.991	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.152	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.187	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.023	0.989-1.052

Analyst: MI

Date: 2/19/15

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: 150219D1 #1 Analysis Date: 19-FEB-15 Time: 11:57:35

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		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	1.001	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

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

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	1.036	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	1.090	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.144	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.128	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.225	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.231	1.091-1.371

Analyst: ms

Date: 2/19/15

Client ID: 1613 CS3 15A0501
Lab ID: ST150219D1-1

Filename: 150219D1 S:1 Acq:19-FEB-15 11:57:35
GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.000

ConCal: ST150219D1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	2.86e+06	0.76 y	1.17	26:58	1.001	8.8452	*	2.5	*	*	Total Tetra-Dioxins	50.7	50.9	*	*	*
1,2,3,7,8-PeCDD	1.05e+07	0.61 y	0.91	31:37	1.000	46.602	*	2.5	*	*	Total Penta-Dioxins	153	153	*	*	*
1,2,3,4,7,8-HxCDD	9.95e+06	1.26 y	1.08	34:57	1.000	49.352	*	2.5	*	*	Total Hexa-Dioxins	201	202	*	*	*
1,2,3,6,7,8-HxCDD	1.03e+07	1.25 y	1.06	35:04	1.000	50.985	*	2.5	*	*	Total Hepta-Dioxins	121	121	*	*	*
1,2,3,7,8,9-HxCDD	1.02e+07	1.25 y	0.93	35:22	1.001	50.048	*	2.5	*	*	Total Tetra-Furans	28.9	29.3	*	*	*
1,2,3,4,6,7,8-HpCDD	9.31e+06	1.04 y	1.10	38:53	1.000	49.063	*	2.5	*	*	Total Penta-Furans	193.19	193.52	*	*	*
OCDD	1.60e+07	0.89 y	0.95	42:13	1.000	98.362	*	2.5	*	*	Total Hexa-Furans	249	250	*	*	*
											Total Hepta-Furans	100	101	*	*	*
2,3,7,8-TCDF	3.61e+06	0.77 y	1.07	26:09	1.001	8.7543	*	2.5	*	*						
1,2,3,7,8-PeCDF	1.84e+07	1.59 y	1.07	30:24	1.000	47.873	*	2.5	*	*						
2,3,4,7,8-PeCDF	1.73e+07	1.60 y	1.03	31:19	1.000	48.016	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	1.71e+07	1.30 y	1.38	34:04	1.001	49.421	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	1.86e+07	1.30 y	1.26	34:11	1.000	50.183	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	1.71e+07	1.30 y	1.29	34:47	1.000	49.755	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	1.31e+07	1.30 y	1.19	35:44	1.001	48.981	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	1.61e+07	1.09 y	1.61	37:35	1.001	49.690	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	1.35e+07	1.08 y	1.53	39:26	1.000	50.423	*	2.5	*	*						
OCDF	2.14e+07	0.92 y	1.10	42:26	1.000	99.532	*	2.5	*	*						
											Rec	Qual				
IS 13C-2,3,7,8-TCDD	2.76e+07	0.81 y	1.06	26:57	1.022	99.184					99.2					
IS 13C-1,2,3,7,8-PeCDD	2.47e+07	0.62 y	1.18	31:36	1.198	79.943					79.9					
IS 13C-1,2,3,4,7,8-HxCDD	1.87e+07	1.26 y	0.72	34:56	1.014	97.684					97.7					
IS 13C-1,2,3,6,7,8-HxCDD	1.90e+07	1.25 y	0.74	35:03	1.017	97.076					97.1					
IS 13C-1,2,3,7,8,9-HxCDD	2.19e+07	1.23 y	0.85	35:20	1.026	96.733					96.7					
IS 13C-1,2,3,4,6,7,8-HpCDD	1.72e+07	1.08 y	0.65	38:53	1.128	98.861					98.9					
IS 13C-OCDD	3.43e+07	0.89 y	0.76	42:12	1.225	168.96					84.5					
IS 13C-2,3,7,8-TCDF	3.85e+07	0.77 y	0.92	26:07	0.991	99.815					99.8					
IS 13C-1,2,3,7,8-PeCDF	3.58e+07	1.58 y	0.92	30:23	1.152	92.509					92.5					
IS 13C-2,3,4,7,8-PeCDF	3.49e+07	1.55 y	0.93	31:18	1.187	89.329					89.3					
IS 13C-1,2,3,4,7,8-HxCDF	2.50e+07	0.52 y	0.98	34:02	0.988	95.951					96.0					
IS 13C-1,2,3,6,7,8-HxCDF	2.95e+07	0.52 y	1.08	34:10	0.992	102.50					102					
IS 13C-2,3,4,6,7,8-HxCDF	2.67e+07	0.51 y	1.03	34:46	1.009	97.953					98.0					
IS 13C-1,2,3,7,8,9-HxCDF	2.25e+07	0.51 y	0.86	35:43	1.036	98.312					98.3					
IS 13C-1,2,3,4,6,7,8-HpCDF	2.01e+07	0.44 y	0.72	37:34	1.090	104.53					105					
IS 13C-1,2,3,4,7,8,9-HpCDF	1.76e+07	0.45 y	0.70	39:25	1.144	94.792					94.8					
IS 13C-OCDF	3.92e+07	0.89 y	0.85	42:25	1.231	173.69					86.8					
C/Up 37Cl-2,3,7,8-TCDD	3.02e+06		1.12	26:58	1.023	10.295					25.7					
RS/RT 13C-1,2,3,4-TCDD	2.63e+07	0.79 y	1.00	26:22	*	100.00										
RS 13C-1,2,3,4-TCDF	4.20e+07	0.78 y	1.00	24:51	*	100.00										
RS/RT 13C-1,2,3,4,6,9-HxCDF	2.66e+07	0.52 y	1.00	34:27	*	100.00										

Integrations by MS Reviewed by CS
Analyst: MS Analyst: CS
Date: 2/19/15 Date: 2/20/15

Vista Analytical Laboratory - Injection Log Run file: 150219D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
150219D1	1	ST150219D1-1	MAS	19-FEB-15	11:57:35	ST150219D1-1	NA
150219D1	2	SOLVENT BLANK	MAS	19-FEB-15	12:46:21	ST150219D1-1	NA
150219D1	3	SOLVENT BLANK	MAS	19-FEB-15	13:35:08	ST150219D1-1	NA
150219D1	4	B5B0019-BS3	MAS	19-FEB-15	14:23:54	ST150219D1-1	NA
150219D1	5	B5B0068-BS1	MAS	19-FEB-15	15:12:41	ST150219D1-1	NA
150219D1	6	B5B0079-BS1	MAS	19-FEB-15	16:01:27	ST150219D1-1	NA
150219D1	7	SOLVENT BLANK	MAS	19-FEB-15	16:50:13	ST150219D1-1	NA
150219D1	8	B5B0068-BLK1	MAS	19-FEB-15	17:39:00	ST150219D1-1	NA
150219D1	9	B5B0079-BLK1	MAS	19-FEB-15	18:27:46	ST150219D1-1	NA
150219D1	10	1500188-01	MAS	19-FEB-15	19:16:33	ST150219D1-1	NA
150219D1	11	1500188-02	MAS	19-FEB-15	20:05:20	ST150219D1-1	NA
150219D1	12	1500169-01	MAS	19-FEB-15	20:54:06	ST150219D1-1	NA
150219D1	13	1500171-01	MAS	19-FEB-15	21:42:52	ST150219D1-1	NA
150219D1	14	1500174-01	MAS	19-FEB-15	22:31:37	ST150219D1-1	NA
150219D1	15	1500174-02	MAS	19-FEB-15	23:20:23	ST150219D1-1	NA
150219D1	16	SOLVENT BLANK	MAS	20-FEB-15	00:09:09	ST150219D1-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST15021901-1

End Calibration ID: NA

	Beg.	End		Beg.	End
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA	Mass resolution > <u>10,000</u> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentration within range?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	▪ Method 1614 > 5,000; CARB 429 > 8,000	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>TCDD/TCDF</u> valleys < 25%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Peaks integrated correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Manual integrations included?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8280 CS1 Ending Standard		<input type="checkbox"/>
Correct ICAL referenced?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-Ratios within limits		<input type="checkbox"/>
Run Log:			-S/N > 2.5:1		<input type="checkbox"/>
-Data file matches Conc Cal ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-CS1 within 12-hour clock		<input type="checkbox"/>
-Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments: 		
-Samples within 12-hour clock?	<input checked="" type="checkbox"/> (y)	<input type="checkbox"/> n			

Reviewed by: CLY 2/20/15
Initials & Date

** Ending standard criteria applicable to 8290 only.*

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

Episode No.:

CCAL ID: ST150220D2-1

Contract No.:

SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 150220D2 S#1 Analysis Date: 21-FEB-15 Time: 01:05:27

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
2,3,7,8-TCDD	M/M+2	0.69	0.65-0.89	y	8.52	7.8 - 12.9
1,2,3,7,8-PeCDD	M/M+2	0.61	0.54-0.72	y	48.3	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	50.2	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	52.1	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	y	51.2	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	48.4	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	99.9	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	8.81	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	49.7	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	49.7	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.31	1.05-1.43	y	49.9	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	49.8	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	50.3	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.33	1.05-1.43	y	50.8	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.08	0.88-1.20	y	50.4	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	0.92	0.76-1.02	y	98.1	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: DMSDate: 2/21/15

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: 150220D2 S#1 Analysis Date: 21-FEB-15 Time: 01:05:27

LABELLED 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	102	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.63	0.54-0.72	y	82.9	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	97.3	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.20	1.05-1.43	y	90.4	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	97.9	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	101	72.0 - 138.0
13C-OCDD	M/M+2	0.90	0.76-1.02	y	157	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.77	0.65-0.89	y	95.9	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	90.7	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	88.7	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	95.9	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	104	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	97.3	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	97.0	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.44	0.37-0.51	y	104	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.45	0.37-0.51	y	94.1	77.0 - 129.0
13C-OCDF	M+2/M+4	0.89	0.76-1.02	y	158	96.0 - 415.0
CLEANUP STANDARD (3) 37Cl-2,3,7,8-TCDD					10.6	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: Dms

Date: 2/21/15

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: 150220D2 S#1 Analysis Date: 21-FEB-15 Time: 01:05:27

ZB-5MS IS Data Filename: 150220D2 S#1 Analysis Date: 21-FEB-15 Time: 01:05:27

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)	23:25	1,3,6,8-TCDF (F)	21:14
1,2,8,9-TCDD (L)	27:52	1,2,8,9-TCDF (L)	28:01
1,2,4,7,9-PeCDD (F)	29:31	1,3,4,6,8-PeCDF (F)	27:59
1,2,3,8,9-PeCDD (L)	31:59	1,2,3,8,9-PeCDF (L)	32:14
1,2,4,6,7,9-HxCDD (F)	33:26	1,2,3,4,6,8-HxCDF (F)	32:54
1,2,3,7,8,9-HxCDD (L)	35:23	1,2,3,7,8,9-HxCDF (L)	35:45
1,2,3,4,6,7,9-HpCDD (F)	38:02	1,2,3,4,6,7,8-HpCDF (F)	37:37
1,2,3,4,6,7,8-HpCDD (L)	38:55	1,2,3,4,7,8,9-HpCDF (L)	39:28

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: DMSDate: 2/21/15

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: 150220D2 S#1 Analysis Date: 21-FEB-15 Time: 01:05:27

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		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

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

LABELED COMPOUNDS

13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.198	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.991	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.152	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.187	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052

Analyst: DMS

Date: 2/21/15

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: 150220D2 #1 Analysis Date: 21-FEB-15 Time: 01:05:27

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		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	1.000	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	1.000	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

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

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	1.144	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.129	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.226	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.232	1.091-1.371

Analyst: DMS

Date: 2/21/15

Client ID: 1613 CS3 15A0501
Lab ID: ST150220D2-1

Filename: 150220D2 S:1 Acq:21-FEB-15 01:05:27
GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.000

ConCal: ST150220D2-1
EndCAL: NA

Page 1 of 1

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	2.95e+06	0.69 y	1.17	26:59	8.5236			* 2.5	*	Total Tetra-Dioxins	49.3	49.5	*	*	
1,2,3,7,8-PeCDD	1.17e+07	0.61 y	0.91	31:37	48.309			* 2.5	*	Total Penta-Dioxins	155	156	*	*	
1,2,3,4,7,8-HxCDD	1.16e+07	1.31 y	1.08	34:59	50.186			* 2.5	*	Total Hexa-Dioxins	201	201	*	*	
1,2,3,6,7,8-HxCDD	1.13e+07	1.23 y	1.06	35:05	52.131			* 2.5	*	Total Hepta-Dioxins	122	122	*	*	
1,2,3,7,8,9-HxCDD	1.22e+07	1.27 y	0.93	35:23	51.220			* 2.5	*	Total Tetra-Furans	29.5	29.6	*	*	
1,2,3,4,6,7,8-HpCDD	1.08e+07	1.03 y	1.10	38:55	48.359			* 2.5	*	Total Penta-Furans	195.19	195.46	*	*	
OCDD	1.74e+07	0.89 y	0.95	42:17	99.873			* 2.5	*	Total Hexa-Furans	249	249	*	*	
										Total Hepta-Furans	101	101	*	*	
2,3,7,8-TCDF	3.89e+06	0.76 y	1.07	26:10	8.8117			* 2.5	*						
1,2,3,7,8-PeCDF	2.09e+07	1.61 y	1.07	30:25	49.748			* 2.5	*						
2,3,4,7,8-PeCDF	1.99e+07	1.58 y	1.03	31:19	49.743			* 2.5	*						
1,2,3,4,7,8-HxCDF	1.98e+07	1.31 y	1.38	34:05	49.852			* 2.5	*						
1,2,3,6,7,8-HxCDF	2.15e+07	1.30 y	1.26	34:12	49.776			* 2.5	*						
2,3,4,6,7,8-HxCDF	1.98e+07	1.30 y	1.29	34:48	50.339			* 2.5	*						
1,2,3,7,8,9-HxCDF	1.54e+07	1.33 y	1.19	35:45	50.798			* 2.5	*						
1,2,3,4,6,7,8-HpCDF	1.87e+07	1.08 y	1.61	37:37	50.393			* 2.5	*						
1,2,3,4,7,8,9-HpCDF	1.55e+07	1.08 y	1.53	39:28	50.574			* 2.5	*						
OCDF	2.22e+07	0.92 y	1.10	42:30	98.145			* 2.5	*						
IS	13C-2,3,7,8-TCDD	2.96e+07	0.79 y	1.06	26:58	102.22				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	2.66e+07	0.63 y	1.18	31:36	82.947				102					
IS	13C-1,2,3,4,7,8-HxCDD	2.14e+07	1.28 y	0.72	34:58	97.259				82.9					
IS	13C-1,2,3,6,7,8-HxCDD	2.04e+07	1.20 y	0.74	35:04	90.406				97.3					
IS	13C-1,2,3,7,8,9-HxCDD	2.56e+07	1.23 y	0.85	35:22	97.947				90.4					
IS	13C-1,2,3,4,6,7,8-HpCDD	2.01e+07	1.06 y	0.65	38:55	100.76				97.9					
IS	13C-OCDD	3.68e+07	0.90 y	0.76	42:16	157.26				101					
IS	13C-2,3,7,8-TCDF	4.12e+07	0.77 y	0.92	26:09	95.880				78.6					
IS	13C-1,2,3,7,8-PeCDF	3.91e+07	1.58 y	0.92	30:24	90.671				95.9					
IS	13C-2,3,4,7,8-PeCDF	3.87e+07	1.59 y	0.93	31:18	88.694				90.7					
IS	13C-1,2,3,4,7,8-HxCDF	2.88e+07	0.51 y	0.98	34:04	95.855				88.7					
IS	13C-1,2,3,6,7,8-HxCDF	3.44e+07	0.52 y	1.08	34:11	103.77				95.9					
IS	13C-2,3,4,6,7,8-HxCDF	3.05e+07	0.51 y	1.03	34:47	97.338				104					
IS	13C-1,2,3,7,8,9-HxCDF	2.55e+07	0.52 y	0.86	35:44	96.988				97.3					
IS	13C-1,2,3,4,6,7,8-HpCDF	2.31e+07	0.44 y	0.72	37:36	104.47				97.0					
IS	13C-1,2,3,4,7,8,9-HpCDF	2.01e+07	0.45 y	0.70	39:27	94.139				104					
IS	13C-OCDF	4.11e+07	0.89 y	0.85	42:29	158.31				94.1					
C/Up	37Cl-2,3,7,8-TCDD	3.22e+06		1.12	26:59	10.574				79.2					
RS/RT	13C-1,2,3,4-TCDD	2.73e+07	0.81 y	1.00	26:23	100.00				26.4					
RS	13C-1,2,3,4-TCDF	4.68e+07	0.76 y	1.00	24:53	100.00				Integrations					
RS/RT	13C-1,2,3,4,6,9-HxCDF	3.06e+07	0.51 y	1.00	34:28	100.00				by					

Analyst: Dms Date: _____

Date: 2/21/15 Date: _____

Vista Analytical Laboratory - Injection Log Run file: 150220D2 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
150220D2	1	ST150220D2-1	MAS	21-FEB-15	01:05:27	ST150220D2-1	NA
150220D2	2	SOLVENT BLANK	MAS	21-FEB-15	01:54:12	ST150220D2-1	NA
150220D2	3	QC150220D2-1	MAS	21-FEB-15	02:43:00	ST150220D2-1	NA
150220D2	4	1500166-04	MAS	21-FEB-15	03:31:49	ST150220D2-1	NA
150220D2	5	1500166-05	MAS	21-FEB-15	04:20:38	ST150220D2-1	NA
150220D2	6	1400783-12RE2@20X	MAS	21-FEB-15	05:09:26	ST150220D2-1	NA
150220D2	7	1400783-12RE2@5X	MAS	21-FEB-15	05:58:15	ST150220D2-1	NA
150220D2	8	1400808-04RE4@5X	MAS	21-FEB-15	06:47:04	ST150220D2-1	NA
150220D2	9	1400808-04RE5@100X	MAS	21-FEB-15	07:35:51	ST150220D2-1	NA
150220D2	10	1400808-04RE5@5X	MAS	21-FEB-15	08:24:39	ST150220D2-1	NA
150220D2	11	SOLVENT BLANK	MAS	21-FEB-15	09:13:28	ST150220D2-1	NA
150220D2	12	SOLVENT BLANK	MAS	21-FEB-15	10:02:17	ST150220D2-1	NA
150220D2	13	SOLVENT BLANK	MAS	21-FEB-15	10:51:07	ST150220D2-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST150220DZ-1

End Calibration ID: N/A

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentration within range?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Run Log:		
-Data file matches Conc Cal ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Samples within 12-hour clock?	<input checked="" type="checkbox"/> y	<input type="checkbox"/> n

	<u>Beg.</u>	<u>End</u>
Mass resolution \geq 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF valleys < 25%?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Peaks integrated correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Manual integrations included?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8280 CS1 Ending Standard		
-Ratios within limits		<input type="checkbox"/>
-S/N > 2.5:1		<input type="checkbox"/>
-CS1 within 12-hour clock		<input checked="" type="checkbox"/>

Comments:

Reviewed by: mw 2/23/15
Initials & Date

* Ending standard criteria applicable to 8290 only.

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

Episode No.:

CCAL ID: ST150226D1-1

Contract No.:

SAS No.:

Initial Calibration Date: 1-7-15

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 150226D1 S#1 Analysis Date: 26-FEB-15 Time: 09:40:22

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC.
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			RANGE (3)
2,3,7,8-TCDD	M/M+2	0.75	0.65-0.89	y	9.04	7.8 - 12.9
1,2,3,7,8-PeCDD	M/M+2	0.61	0.54-0.72	y	47.2	8.2 - 12.3 (4) 39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	48.3	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	50.2	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	49.3	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	48.5	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	98.4	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.73	0.65-0.89	y	9.32	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	49.6	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	48.9	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	1.27	1.05-1.43	y	47.9	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.31	1.05-1.43	y	48.7	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.29	1.05-1.43	y	49.2	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.09	0.88-1.20	y	48.8	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88-1.20	y	49.7	43.0 - 58.0
OCDF	M+2/M+4	0.92	0.76-1.02	y	99.5	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: MDate: 2/26/15

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: 150226D1 S#1 Analysis Date: 26-FEB-15 Time: 09:40:22

LABELLED 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	101	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	79.9	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	101	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	89.4	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	y	96.8	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	97.8	72.0 - 138.0
13C-OCDD	M/M+2	0.88	0.76-1.02	y	172	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.77	0.65-0.89	y	94.3	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	95.0	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.56	1.32-1.78	y	85.5	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	98.2	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	126	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	97.9	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	97.7	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.44	0.37-0.51	y	101	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.45	0.37-0.51	y	94.5	77.0 - 129.0
13C-OCDF	M+2/M+4	0.89	0.76-1.02	y	175	96.0 - 415.0
CLEANUP STANDARD (3) 37Cl-2,3,7,8-TCDD					11.3	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: M

Date: 2/26/15

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: 150226D1 S#1 Analysis Date: 26-FEB-15 Time: 09:40:22

ZB-5MS IS Data Filename: 150226D1 S#1 Analysis Date: 26-FEB-15 Time: 09:40:22

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)	23:24	1,3,6,8-TCDF (F)	21:13
1,2,8,9-TCDD (L)	27:51	1,2,8,9-TCDF (L)	28:00
1,2,4,7,9-PeCDD (F)	29:30	1,3,4,6,8-PeCDF (F)	27:58
1,2,3,8,9-PeCDD (L)	31:58	1,2,3,8,9-PeCDF (L)	32:12
1,2,4,6,7,9-HxCDD (F)	33:25	1,2,3,4,6,8-HxCDF (F)	32:52
1,2,3,7,8,9-HxCDD (L)	35:21	1,2,3,7,8,9-HxCDF (L)	35:43
1,2,3,4,6,7,9-HpCDD (F)	37:59	1,2,3,4,6,7,8-HpCDF (F)	37:35
1,2,3,4,6,7,8-HpCDD (L)	38:53	1,2,3,4,7,8,9-HpCDF (L)	39:26

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: MS

Date: 2/26/15

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: 150226D1 S#1 Analysis Date: 26-FEB-15 Time: 09:40:22

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		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	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

LABELED COMPOUNDS

13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.198	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.991	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.152	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.187	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052

Analyst: M

Date: 2/26/15

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: 150226D1 S#1 Analysis Date: 26-FEB-15 Time: 09:40:22

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	1.001	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	1.000	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

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

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	1.090	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.144	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.128	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.225	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.231	1.091-1.371

Analyst: mi

Date: 2/26/15

Client ID: 1613 CS3 15A0501
Lab ID: ST150226D1-1

Filename: 150226D1 S:1 Acq:26-FEB-15 09:40:22
GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.000

ConCal: ST150226D1-1
EndCAL: NA

Page 1 of 1

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	2.05e+06	0.75 y	1.17	26:58	1.001	9.0397	*	2.5	*	*	Total Tetra-Dioxins	51.5	51.7	*	*	
1,2,3,7,8-PeCDD	7.27e+06	0.61 y	0.91	31:36	1.001	47.219	*	2.5	*	*	Total Penta-Dioxins	163	164	*	*	
1,2,3,4,7,8-HxCDD	7.26e+06	1.26 y	1.08	34:57	1.000	48.278	*	2.5	*	*	Total Hexa-Dioxins	198	198	*	*	
1,2,3,6,7,8-HxCDD	6.75e+06	1.27 y	1.06	35:04	1.000	50.183	*	2.5	*	*	Total Hepta-Dioxins	124	125	*	*	
1,2,3,7,8,9-HxCDD	7.27e+06	1.24 y	0.93	35:21	1.000	49.270	*	2.5	*	*	Total Tetra-Furans	30.3	30.4	*	*	
1,2,3,4,6,7,8-HpCDD	6.58e+06	1.05 y	1.10	38:53	1.000	48.527	*	2.5	*	*	Total Penta-Furans	191.12	191.53	*	*	
OCDD	1.18e+07	0.89 y	0.95	42:14	1.000	98.382	*	2.5	*	*	Total Hexa-Furans	243	243	*	*	
											Total Hepta-Furans	98.6	99.6	*	*	
2,3,7,8-TCDF	2.80e+06	0.73 y	1.07	26:09	1.001	9.3213	*	2.5	*	*						
1,2,3,7,8-PeCDF	1.51e+07	1.60 y	1.07	30:24	1.001	49.598	*	2.5	*	*						
2,3,4,7,8-PeCDF	1.30e+07	1.62 y	1.03	31:19	1.000	48.883	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	1.28e+07	1.31 y	1.38	34:03	1.000	50.118	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	1.58e+07	1.27 y	1.26	34:10	1.000	47.936	*	2.5	*	*						
2,3,4,6,7,8-HxCDF	1.21e+07	1.31 y	1.29	34:47	1.001	48.735	*	2.5	*	*						
1,2,3,7,8,9-HxCDF	9.42e+06	1.29 y	1.19	35:43	1.000	49.202	*	2.5	*	*						
1,2,3,4,6,7,8-HpCDF	1.10e+07	1.09 y	1.61	37:35	1.000	48.841	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	9.59e+06	1.05 y	1.53	39:26	1.000	49.716	*	2.5	*	*						
OCDF	1.55e+07	0.92 y	1.10	42:26	1.000	99.506	*	2.5	*	*						
IS	13C-2,3,7,8-TCDD	1.94e+07	0.80 y	1.06	26:57	1.022	101.49				Rec	Qual				
											101					
IS	13C-1,2,3,7,8-PeCDD	1.69e+07	0.62 y	1.18	31:35	1.198	79.924				79.9					
IS	13C-1,2,3,4,7,8-HxCDD	1.40e+07	1.24 y	0.72	34:56	1.014	100.95				101					
IS	13C-1,2,3,6,7,8-HxCDD	1.26e+07	1.24 y	0.74	35:03	1.017	89.409				89.4					
IS	13C-1,2,3,7,8,9-HxCDD	1.59e+07	1.27 y	0.85	35:20	1.026	96.790				96.8					
IS	13C-1,2,3,4,6,7,8-HpCDD	1.23e+07	1.07 y	0.65	38:53	1.128	97.843				97.8					
IS	13C-OCDD	2.52e+07	0.88 y	0.76	42:13	1.225	171.76				85.9					
IS	13C-2,3,7,8-TCDF	2.80e+07	0.77 y	0.92	26:08	0.991	94.288				94.3					
IS	13C-1,2,3,7,8-PeCDF	2.83e+07	1.59 y	0.92	30:23	1.152	94.953				95.0					
IS	13C-2,3,4,7,8-PeCDF	2.58e+07	1.56 y	0.93	31:18	1.187	85.476				85.5					
IS	13C-1,2,3,4,7,8-HxCDF	1.85e+07	0.52 y	0.98	34:02	0.988	98.233				98.2					
IS	13C-1,2,3,6,7,8-HxCDF	2.62e+07	0.52 y	1.08	34:10	0.992	126.00				126					
IS	13C-2,3,4,6,7,8-HxCDF	1.93e+07	0.52 y	1.03	34:45	1.009	97.924				97.9					
IS	13C-1,2,3,7,8,9-HxCDF	1.61e+07	0.51 y	0.86	35:42	1.037	97.711				97.7					
IS	13C-1,2,3,4,6,7,8-HpCDF	1.40e+07	0.44 y	0.72	37:34	1.090	101.12				101					
IS	13C-1,2,3,4,7,8,9-HpCDF	1.27e+07	0.45 y	0.70	39:25	1.144	94.541				94.5					
IS	13C-OCDF	2.84e+07	0.89 y	0.85	42:25	1.231	174.50				87.3					
C/Up	37Cl-2,3,7,8-TCDD	2.27e+06		1.12	26:58	1.022	11.283				28.2					
											Integrations					
											by					
RS/RT	13C-1,2,3,4-TCDD	1.80e+07	0.80 y	1.00	26:22	*	100.00				Analyst: <u>mi</u>					
RS	13C-1,2,3,4-TCDF	3.24e+07	0.77 y	1.00	24:52	*	100.00				Analyst: <u>AK</u>					
RS/RT	13C-1,2,3,4,6,9-HxCDF	1.92e+07	0.51 y	1.00	34:27	*	100.00				Date: <u>2/26/15</u>					
											Date: <u>2/27/15</u>					

Vista Analytical Laboratory - Injection Log Run file: 150226D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
150226D1	1	ST150226D1-1	MAS	26-FEB-15	09:40:22	ST150226D1-1	NA
150226D1	2	ST150226D1-2	MAS	26-FEB-15	10:29:07	ST150226D1-2	ST150226D1-3
150226D1	3	B5B0097-BS1	MAS	26-FEB-15	11:17:54	ST150226D1-2	ST150226D1-3
150226D1	4	B5B0083-BS1	MAS	26-FEB-15	12:06:40	ST150226D1-1	NA
150226D1	5	SOLVENT BLANK	MAS	26-FEB-15	12:55:27	NA	NA
150226D1	6	B5B0097-BLK1	MAS	26-FEB-15	13:44:13	ST150226D1-2	ST150226D1-3
150226D1	7	B5B0083-BLK1	MAS	26-FEB-15	14:32:59	ST150226D1-1	NA
150226D1	8	1500166-01	MAS	26-FEB-15	15:21:46	ST150226D1-1	NA
150226D1	9	1500166-02	MAS	26-FEB-15	16:10:32	ST150226D1-1	NA
150226D1	10	1500166-03	MAS	26-FEB-15	16:59:18	ST150226D1-1	NA
150226D1	11	1500184-01	MAS	26-FEB-15	17:48:03	ST150226D1-1	NA
150226D1	12	1500184-02	MAS	26-FEB-15	18:36:49	ST150226D1-1	NA
150226D1	13	1500176-01	MAS	26-FEB-15	19:25:35	ST150226D1-2	ST150226D1-3
150226D1	14	SOLVENT BLANK	MAS	26-FEB-15	20:14:20	NA	NA
150226D1	15	SOLVENT BLANK	MAS	26-FEB-15	21:03:07	NA	NA
150226D1	16	ST150226D1-3	MAS	26-FEB-15	21:51:51	ST150226D1-2	ST150226D1-3

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST15022601-1

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentration within range?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Run Log:		
-Data file matches Conc Cal ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Samples within 12-hour clock?	<input checked="" type="checkbox"/> y	<input type="checkbox"/> n

	<u>Beg.</u>	<u>End</u>
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF valleys < 25%?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Peaks integrated correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Manual integrations included?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8280 CS1 Ending Standard		
-Ratios within limits		<input type="checkbox"/>
-S/N > 2.5:1		<input type="checkbox"/>
-CS1 within 12-hour clock		<input checked="" type="checkbox"/>

Comments:

Reviewed by: [Signature] 2/27/15
Initials & Date

* Ending standard criteria applicable to 8290 only.

FORM 4A
 PCDD/PCDF CALIBRATION VERIFICATION
 CCAL ID: ST150220F1-1

Vista Analytical Laboratory
 Initial Calibration Date: 11/13/2014
 Instrument ID: VG-9
 VER Data file name: 150220F1_2

GC Column ID: DB-225
 Analysis Date: 20-Feb-15 Analysis Time: 09:02:15

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABOUND. RATIO	QC LIMITS (2)	Flag	CONC. FOUND	CONC.	CONC.	CONC.	CONC.	Yes	Yes
						RANGE (3) (ng/ml)	RANGE (3) (ng/ml)	RANGE (ng/ml)	RANGE (ng/ml)		
2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	NO	8.51	8.4 8.6	12.0 11.6 (4)	8290 Min	8290 Max		

- (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: clj

Date: 2/20/15

FORM 4B
 PCDD/PCDF CALIBRATION VERIFICATION
 CCAL ID: ST150220F1-1

Vista Analytical Laboratory
 Initial Calibration Date: 11/13/2014
 Instrument ID: VG-9
 VER Data file name: 150220F1_2

GC Column ID: DB-225
 Analysis Date: 20-Feb-15 Analysis Time: 09:02:15

Labeled Compounds	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Flag	CONC. FOUND	CONC. RANGE (3)	CONC. RANGE (3)	CONC. RANGE (ng/ml)	CONC. RANGE (ng/ml)	Yes
						1613 Min	1613 Max	8290 Min	8290 Max	
13C-2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	NO	108	71.0	140.0	70.0	130.0	Yes
						76.0	131.0 (5)			

- (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: CJ
 Date: 2/20/15

Dataset: C:\MassLynx\Default.pro\Results\150220F1\150220F1_2.qld

Last Altered: Friday, February 20, 2015 11:07:51 Pacific Standard Time

Printed: Friday, February 20, 2015 11:08:57 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 20 Feb 2015 08:16:54

Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\db-225_1613TCDFvg9-11-13-14.cdb 14 Nov 2014 07:50:26

Name: 150220F1_2, Date: 20-Feb-2015, Time: 09:02:15, ID: ST150220F1-1 1613 CS3 1411102, Description: 1613 CS3 1411102

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.39e5	0.78	NO	1.10	1.002	17.54	8.5135	85.3	0.0461
2	2 13C-2,3,7,8-TCDF	1.48e6	0.78	NO	0.844	1.002	17.51	107.60	108	0.143
3	3 13C-1,2,3,4-TCDF	1.62e6	0.78	NO	1.00	1.002	15.29	99.801	100	0.120
4	4 13C-1,2,3,4-TCDD	1.23e6	0.79	NO		1.002	16.06			

CS 2/20/15

Vista Analytical Laboratory VG-9

Dataset: Untitled

Last Altered: Friday, February 20, 2015 13:46:53 Pacific Standard Time

Printed: Friday, February 20, 2015 13:47:08 Pacific Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\tcdf.mdb 20 Feb 2015 08:16:54

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	150220F1_1	CP150220F1-1 DB-225 CPSM	20-Feb-15	08:31:26
2	150220F1_2	ST150220F1-1 1613 CS3 1411102	20-Feb-15	09:02:15
3	150220F1_3	SOLVENT BLANK	20-Feb-15	09:34:42
4	150220F1_4	1500147-02RE1 WM-MH-61-20150203-S CF ...	20-Feb-15	10:07:06
5	150220F1_5	1500147-03RE1 WM-CB-52-20150203-S CF ...	20-Feb-15	10:39:24
6	150220F1_6	1500147-04RE1 WM-CB-21-20150203-S CF ...	20-Feb-15	11:11:53
7	150220F1_7	1500166-04RE1 ST-CB-08-20150210-S CF 2...	20-Feb-15	11:44:20
8	150220F1_8	1500166-05RE1 ST-CB-04A-20150210-S CF ...	20-Feb-15	12:16:42
9	150220F1_9	1400783-12RE3@5X UB-2S CF 21.73	20-Feb-15	12:49:13
10	150220F1_10	SOLVENT BLANK	20-Feb-15	13:21:32

CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST150220FI-1

End Calibration ID: N/A

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> N/A
Concentration within range?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input type="checkbox"/> N/A	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Run Log:		
-Data file matches Conc Cal ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Samples within 12-hour clock?	<input type="checkbox"/> y	<input type="checkbox"/> n

	<u>Beg.</u>	<u>End</u>
Mass resolution > <u>10,000</u> ? ▪ Method 1614 > 5,000; CARB 429 > 8,000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF valleys < 25%?	<input checked="" type="checkbox"/>	<input type="checkbox"/> N/A
Peaks integrated correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Manual integrations included?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8280 CS1 Ending Standard		
-Ratios within limits		<input type="checkbox"/>
-S/N > 2.5:1		<input type="checkbox"/>
-CS1 within 12-hour clock		<input checked="" type="checkbox"/>

Comments:

Reviewed by: AC 2/20/15
Initials & Date

** Ending standard criteria applicable to 8290 only.*

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150219E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150219E2 S#1 Analysis Date: 19-FEB-15 Time: 14:07:32

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	47.0	37.5-62.5	PCB-52/69	0.79	0.65-0.89	y	106.0	75.0-125
PCB-2	3.00	2.66-3.60	y	46.3	37.5-62.5	PCB-73	0.80	0.65-0.89	y	58.5	37.5-62.5
PCB-3	3.00	2.66-3.60	y	46.3	37.5-62.5	PCB-43/49	0.80	0.65-0.89	y	108.7	75.0-125
PCB-4/10	1.60	1.33-1.79	y	173.4	150-250	PCB-47	0.79	0.65-0.89	y	51.1	37.5-62.5
PCB-7/9	1.60	1.33-1.79	y	178.6	150-250	PCB-48/75	0.79	0.65-0.89	y	112.0	75.0-125
PCB-6	1.60	1.33-1.79	y	91.4	75.0-125	PCB-65	0.78	0.65-0.89	y	55.4	37.5-62.5
PCB-5/8	1.61	1.33-1.79	y	181.5	150-250	PCB-62	0.79	0.65-0.89	y	52.7	37.5-62.5
PCB-14	1.61	1.33-1.79	y	90.4	75.0-125	PCB-44	0.81	0.65-0.89	y	54.8	37.5-62.5
PCB-11	1.60	1.33-1.79	y	90.2	75.0-125	PCB-42/59	0.80	0.65-0.89	y	111.4	75.0-125
PCB-12/13	1.60	1.33-1.79	y	179.9	150-250	PCB-41/64/71/72	0.79	0.65-0.89	y	214.1	150-250
PCB-15	1.64	1.33-1.79	y	89.3	75.0-125	PCB-68	0.81	0.65-0.89	y	53.9	37.5-62.5
PCB-19	1.08	0.88-1.20	y	52.3	37.5-62.5	PCB-40	0.79	0.65-0.89	y	58.0	37.5-62.5
PCB-30	1.06	0.88-1.20	y	48.7	37.5-62.5	PCB-57	0.78	0.65-0.89	y	53.5	37.5-62.5
PCB-18	1.07	0.88-1.20	y	54.5	37.5-62.5	PCB-67	0.79	0.65-0.89	y	52.3	37.5-62.5
PCB-17	1.07	0.88-1.20	y	53.3	37.5-62.5	PCB-58	0.80	0.65-0.89	y	54.6	37.5-62.5
PCB-24/27	1.05	0.88-1.20	y	105.7	75.0-125	PCB-63	0.78	0.65-0.89	y	53.1	37.5-62.5
PCB-16/32	1.07	0.88-1.20	y	105.1	75.0-125	PCB-74	0.78	0.65-0.89	y	52.0	37.5-62.5
PCB-34	1.08	0.88-1.20	y	41.2	37.5-62.5	PCB-61/70	0.79	0.65-0.89	y	109.0	75.0-125
PCB-23	1.08	0.88-1.20	y	46.0	37.5-62.5	PCB-76/66	0.79	0.65-0.89	y	107.4	75.0-125
PCB-29	1.08	0.88-1.20	y	46.1	37.5-62.5	PCB-80	0.79	0.65-0.89	y	54.8	37.5-62.5
PCB-26	1.08	0.88-1.20	y	45.3	37.5-62.5	PCB-55	0.79	0.65-0.89	y	53.6	37.5-62.5
PCB-25	1.08	0.88-1.20	y	49.2	37.5-62.5	PCB-56/60	0.79	0.65-0.89	y	108.2	75.0-125
PCB-31	1.08	0.88-1.20	y	47.8	37.5-62.5	PCB-79	0.80	0.65-0.89	y	52.9	37.5-62.5
PCB-28	1.08	0.88-1.20	y	48.5	37.5-62.5	PCB-78	0.80	0.65-0.89	y	50.9	37.5-62.5
PCB-20/21/33	1.07	0.88-1.20	y	148.0	112.5-225	PCB-81	0.79	0.65-0.89	y	51.5	37.5-62.5
PCB-22	1.10	0.88-1.20	y	48.3	37.5-62.5	PCB-77	0.80	0.65-0.89	y	53.0	37.5-62.5
PCB-36	1.08	0.88-1.20	y	49.2	37.5-62.5	PCB-104	1.61	1.32-1.78	y	54.0	37.5-62.5
PCB-39	1.07	0.88-1.20	y	49.5	37.5-62.5	PCB-96	1.59	1.32-1.78	y	52.9	37.5-62.5
PCB-38	1.08	0.88-1.20	y	45.6	37.5-62.5	PCB-103	1.55	1.32-1.78	y	52.5	37.5-62.5
PCB-35	1.08	0.88-1.20	y	50.7	37.5-62.5	PCB-100	1.58	1.32-1.78	y	53.1	37.5-62.5
PCB-37	1.06	0.88-1.20	y	47.9	37.5-62.5	PCB-94	1.61	1.32-1.78	y	50.4	37.5-62.5
PCB-54	0.79	0.65-0.89	y	52.9	37.5-62.5	PCB-95/98/102	1.60	1.32-1.78	y	155.2	112.5-225
PCB-50	0.79	0.65-0.89	y	55.5	37.5-62.5	PCB-93	1.61	1.32-1.78	y	54.8	37.5-62.5
PCB-53	0.78	0.65-0.89	y	56.2	37.5-62.5	PCB-88/91	1.58	1.32-1.78	y	101.4	75.0-125
PCB-51	0.79	0.65-0.89	y	54.9	37.5-62.5	PCB-121	1.63	1.32-1.78	y	55.0	37.5-62.5
PCB-45	0.79	0.65-0.89	y	56.6	37.5-62.5						
PCB-46	0.79	0.65-0.89	y	55.6	37.5-62.5						

Analyst: Dms

Date: 2/19/15

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150219E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150219E2 S#1 Analysis Date: 19-FEB-15 Time: 14:07:32

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	CONC. RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	CONC. RANGE (ng/mL)
PCB-84/92	1.63	1.32-1.78	y	106.7	75.0-125	PCB-140	1.30	1.05-1.43	y	57.6	37.5-62.5
PCB-89	1.64	1.32-1.78	y	53.6	37.5-62.5	PCB-134/143	1.24	1.05-1.43	y	103.6	75.0-125
PCB-90/101	1.58	1.32-1.78	y	106.0	75.0-125	PCB-133/142	1.24	1.05-1.43	y	102.1	75.0-125
PCB-113	1.59	1.32-1.78	y	53.1	37.5-62.5	PCB-131	1.26	1.05-1.43	y	50.8	37.5-62.5
PCB-99	1.64	1.32-1.78	y	55.0	37.5-62.5	PCB-146/165	1.26	1.05-1.43	y	99.1	75.0-125
PCB-119	1.62	1.32-1.78	y	53.2	37.5-62.5	PCB-132/161	1.25	1.05-1.43	y	100.6	75.0-125
PCB-108/112	1.61	1.32-1.78	y	105.2	75.0-125	PCB-153	1.25	1.05-1.43	y	49.8	37.5-62.5
PCB-83	1.59	1.32-1.78	y	50.3	37.5-62.5	PCB-168	1.24	1.05-1.43	y	50.0	37.5-62.5
PCB-97	1.59	1.32-1.78	y	51.9	37.5-62.5	PCB-141	1.23	1.05-1.43	y	50.7	37.5-62.5
PCB-86	1.57	1.32-1.78	y	57.5	37.5-62.5	PCB-137	1.31	1.05-1.43	y	53.3	37.5-62.5
PCB-87/117/125	1.63	1.32-1.78	y	160.5	112.5-225	PCB-130	1.23	1.05-1.43	y	52.2	37.5-62.5
PCB-111/115	1.63	1.32-1.78	y	102.2	75.0-125	PCB-138/163/164	1.26	1.05-1.43	y	149.8	112.5-225
PCB-85/116	1.64	1.32-1.78	y	109.8	75.0-125	PCB-158/160	1.25	1.05-1.43	y	102.2	75.0-125
PCB-120	1.60	1.32-1.78	y	51.5	37.5-62.5	PCB-129	1.25	1.05-1.43	y	51.8	37.5-62.5
PCB-110	1.61	1.32-1.78	y	52.6	37.5-62.5	PCB-166	1.25	1.05-1.43	y	52.2	37.5-62.5
PCB-82	1.61	1.32-1.78	y	54.1	37.5-62.5	PCB-159	1.23	1.05-1.43	y	52.0	37.5-62.5
PCB-124	1.60	1.32-1.78	y	54.0	37.5-62.5	PCB-128/162	1.27	1.05-1.43	y	102.6	75.0-125
PCB-107/109	1.63	1.32-1.78	y	104.5	75.0-125	PCB-167	1.24	1.05-1.43	y	52.3	37.5-62.5
PCB-123	1.58	1.32-1.78	y	54.4	37.5-62.5	PCB-156	1.25	1.05-1.43	y	51.9	37.5-62.5
PCB-106/118	1.63	1.32-1.78	y	103.8	75.0-125	PCB-157	1.26	1.05-1.43	y	50.8	37.5-62.5
PCB-114	1.54	1.32-1.78	y	45.8	37.5-62.5	PCB-169	1.29	1.05-1.43	y	50.2	37.5-62.5
PCB-122	1.59	1.32-1.78	y	48.1	37.5-62.5	PCB-188	1.08	0.89-1.21	y	52.1	37.5-62.5
PCB-105	1.54	1.32-1.78	y	46.8	37.5-62.5	PCB-184	1.08	0.89-1.21	y	51.3	37.5-62.5
PCB-127	1.61	1.32-1.78	y	46.5	37.5-62.5	PCB-179	1.07	0.89-1.21	y	51.0	37.5-62.5
PCB-126	1.60	1.32-1.78	y	48.3	37.5-62.5	PCB-176	1.08	0.89-1.21	y	50.4	37.5-62.5
PCB-155	1.27	1.05-1.43	y	52.5	37.5-62.5	PCB-186	1.06	0.89-1.21	y	52.0	37.5-62.5
PCB-150	1.30	1.05-1.43	y	53.6	37.5-62.5	PCB-178	1.09	0.89-1.21	y	51.6	37.5-62.5
PCB-152	1.27	1.05-1.43	y	53.6	37.5-62.5	PCB-175	1.07	0.89-1.21	y	52.4	37.5-62.5
PCB-145	1.26	1.05-1.43	y	53.7	37.5-62.5	PCB-182/187	1.07	0.89-1.21	y	105.0	75.0-125
PCB-136	1.29	1.05-1.43	y	57.9	37.5-62.5	PCB-183	1.07	0.89-1.21	y	51.6	37.5-62.5
PCB-148	1.30	1.05-1.43	y	49.6	37.5-62.5	PCB-185	1.06	0.89-1.21	y	54.3	37.5-62.5
PCB-154	1.29	1.05-1.43	y	56.7	37.5-62.5	PCB-174	1.08	0.89-1.21	y	55.9	37.5-62.5
PCB-151	1.29	1.05-1.43	y	57.5	37.5-62.5	PCB-181	1.08	0.89-1.21	y	56.2	37.5-62.5
PCB-135	1.26	1.05-1.43	y	55.5	37.5-62.5	PCB-177	1.06	0.89-1.21	y	55.8	37.5-62.5
PCB-144	1.29	1.05-1.43	y	57.8	37.5-62.5	PCB-171	1.06	0.89-1.21	y	55.2	37.5-62.5
PCB-147	1.29	1.05-1.43	y	59.6	37.5-62.5	PCB-173	1.06	0.89-1.21	y	57.4	37.5-62.5
PCB-139/149	1.27	1.05-1.43	y	113.1	75.0-125	PCB-172	1.05	0.89-1.21	y	54.9	37.5-62.5

Analyst: DMS

Date: 2/19/15

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150219E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150219E2 S#1 Analysis Date: 19-FEB-15 Time: 14:07:32

ANALYTES	ION	QC	PASS	CONC.	CONC.
	ABUND.	LIMITS		FOUND	RANGE
	RATIO				(ng/mL)
PCB-192	1.07	0.89-1.21	y	56.3	37.5-62.5
PCB-180	1.05	0.89-1.21	y	53.8	37.5-62.5
PCB-193	1.07	0.89-1.21	y	52.9	37.5-62.5
PCB-191	1.06	0.89-1.21	y	52.7	37.5-62.5
PCB-170	1.08	0.89-1.21	y	52.9	37.5-62.5
PCB-190	1.04	0.89-1.21	y	52.2	37.5-62.5
PCB-189	1.07	0.89-1.21	y	52.0	37.5-62.5
PCB-202	0.91	0.76-1.02	y	50.0	37.5-62.5
PCB-201	0.95	0.76-1.02	y	50.8	37.5-62.5
PCB-204	0.88	0.76-1.02	y	50.3	37.5-62.5
PCB-197	0.92	0.76-1.02	y	49.7	37.5-62.5
PCB-200	0.90	0.76-1.02	y	49.8	37.5-62.5
PCB-198	0.90	0.76-1.02	y	50.4	37.5-62.5
PCB-199	0.93	0.76-1.02	y	53.3	37.5-62.5
PCB-196/203	0.92	0.76-1.02	y	106.5	75.0-125
PCB-195	0.89	0.76-1.02	y	46.3	37.5-62.5
PCB-194	0.90	0.76-1.02	y	45.0	37.5-62.5
PCB-205	0.90	0.76-1.02	y	47.1	37.5-62.5
PCB-208	1.33	1.14-1.54	y	50.8	37.5-62.5
PCB-207	1.31	1.14-1.54	y	51.6	37.5-62.5
PCB-206	1.31	1.14-1.54	y	50.6	37.5-62.5
PCB-209	1.18	0.99-1.33	y	51.4	37.5-62.5

Analyst: DMS

Date: 2/19/15

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150219E2-1 Instrument ID: VG-8

Initial Calibration Date: 6-23-14 ICal ID: PCBVG8-6-23-14 GC Column ID: ZB-1

VER Data Filename: 150219E2 S#1 Analysis Date: 19-FEB-15 Time: 14:07:32

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	RANGE (ng/mL)	LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	RANGE (ng/mL)
13C-PCB-1	3.28	2.66-3.60	y	112.0	50.0-145	13C-PCB-169	1.29	1.05-1.43	y	97.8	50 - 145
13C-PCB-3	3.27	2.66-3.60	y	111.1	50.0-145	13C-PCB-188	0.47	0.38-0.52	y	91.8	50 - 145
13C-PCB-4	1.58	1.33-1.79	y	104.3	50.0-145	13C-PCB-180	0.46	0.38-0.52	y	87.5	50 - 145
13C-PCB-9	1.56	1.33-1.79	y	98.7	50.0-145	13C-PCB-170	0.48	0.38-0.52	y	91.7	50 - 145
13C-PCB-11	1.55	1.33-1.79	y	99.4	50.0-145	13C-PCB-189	0.47	0.38-0.52	y	92.5	50 - 145
13C-PCB-19	1.08	0.88-1.20	y	102.5	50.0-145	13C-PCB-202	0.92	0.76-1.02	y	83.5	50 - 145
13C-PCB-32	1.07	0.88-1.20	y	97.4	50.0-145	13C-PCB-194	0.90	0.76-1.02	y	96.9	50 - 145
13C-PCB-28	1.06	0.88-1.20	y	107.2	50.0-145	13C-PCB-208	0.78	0.65-0.89	y	104.1	50 - 145
13C-PCB-37	1.07	0.88-1.20	y	108.8	50.0-145	13C-PCB-206	0.80	0.65-0.89	y	121.2	50 - 145
13C-PCB-54	0.81	0.65-0.89	y	96.0	50.0-145	13C-PCB-209	1.18	0.99-1.33	y	124.9	50 - 145
13C-PCB-52	0.79	0.65-0.89	y	97.7	50.0-145						
13C-PCB-47	0.80	0.65-0.89	y	98.6	50.0-145						
13C-PCB-70	0.81	0.65-0.89	y	99.4	50.0-145						
13C-PCB-80	0.80	0.65-0.89	y	99.8	50.0-145						
13C-PCB-81	0.79	0.65-0.89	y	99.2	50.0-145						
13C-PCB-77	0.80	0.65-0.89	y	99.1	50.0-145						
13C-PCB-104	1.64	1.32-1.78	y	97.8	50.0-145						
13C-PCB-95	1.60	1.32-1.78	y	103.5	50.0-145						
13C-PCB-101	1.60	1.32-1.78	y	98.6	50.0-145	CRS vs. RS					
13C-PCB-97	1.58	1.32-1.78	y	100.8	50.0-145						
13C-PCB-123	1.62	1.32-1.78	y	106.0	50.0-145	13C-PCB-79	0.79	0.65-0.89	y	99.1	75 - 125
13C-PCB-118	1.65	1.32-1.78	y	104.6	50.0-145	13C-PCB-178	0.47	0.38-0.52	y	93.1	75 - 125
13C-PCB-114	1.63	1.32-1.78	y	96.2	50.0-145						
13C-PCB-105	1.57	1.32-1.78	y	93.6	50.0-145						
13C-PCB-127	1.61	1.32-1.78	y	94.9	50.0-145						
13C-PCB-126	1.62	1.32-1.78	y	96.7	50.0-145						
13C-PCB-155	1.31	1.05-1.43	y	78.7	50.0-145						
13C-PCB-153	1.30	1.05-1.43	y	100.9	50.0-145						
13C-PCB-141	1.26	1.05-1.43	y	95.4	50.0-145						
13C-PCB-138	1.26	1.05-1.43	y	99.1	50.0-145						
13C-PCB-159	1.31	1.05-1.43	y	96.7	50.0-145						
13C-PCB-167	1.27	1.05-1.43	y	96.9	50.0-145						
13C-PCB-156	1.26	1.05-1.43	y	97.5	50.0-145						
13C-PCB-157	1.28	1.05-1.43	y	98.3	50.0-145						

Analyst: DMS

Date: 2/19/15

Client ID: PCB CS3 14K1102
Lab ID: ST150219E2-1

Filename: 150219E2 S:1 Acq:19-FEB-15 14:07:32
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000 EndCAL: NA
ConCal: ST150219E2-1

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	6.45e+07	3.00	y	1.19	16:05	1.001	0.996-1.006	46.9772	PCB-52/69	9.15e+07	0.79	y	1.28	31:26	1.001	0.996-1.006	106.041
PCB-2	6.55e+07	3.00	y	1.18	18:27	0.988	0.984-0.994	46.3283	PCB-73	5.33e+07	0.80	y	1.35	31:33	1.005	1.000-1.010	58.5454
PCB-3	7.87e+07	3.00	y	1.43	18:41	1.001	0.996-1.006	46.2502	PCB-43/49	7.28e+07	0.80	y	0.99	31:43	1.010	1.005-1.015	108.702
PCB-4/10	1.96e+08	1.60	y	1.57	20:03	1.003	0.997-1.007	173.368	PCB-47	3.87e+07	0.79	y	1.06	31:55	1.001	0.996-1.006	51.1402
PCB-7/9	2.25e+08	1.60	y	1.21	21:49	0.868	0.866-0.874	178.631	PCB-48/75	9.84e+07	0.79	y	1.23	32:02	1.004	0.999-1.009	111.972
PCB-6	1.24e+08	1.60	y	1.30	22:28	0.894	0.890-0.899	91.3648	PCB-65	4.86e+07	0.78	y	1.22	32:19	1.013	1.008-1.018	55.4479
PCB-5/8	2.17e+08	1.61	y	1.15	22:52	0.910	0.907-0.917	181.549	PCB-62	4.60e+07	0.79	y	1.22	32:25	1.016	1.011-1.021	52.6922
PCB-14	1.10e+08	1.61	y	1.11	23:57	0.953	0.949-0.959	90.4090	PCB-44	3.38e+07	0.81	y	0.86	32:43	1.026	1.021-1.031	54.8350
PCB-11	1.08e+08	1.60	y	1.09	25:10	1.001	0.995-1.005	90.1856	PCB-42/59	9.07e+07	0.80	y	1.14	32:57	1.033	1.028-1.038	111.393
PCB-12/13	2.36e+08	1.60	y	1.19	25:33	1.016	1.011-1.021	179.896	PCB-41/64/71/72	1.85e+08	0.79	y	1.21	33:32	1.051	1.046-1.056	214.129
PCB-15	1.26e+08	1.64	y	1.28	25:52	1.029	1.023-1.033	89.3446	PCB-68	5.20e+07	0.81	y	1.35	33:47	1.059	1.054-1.064	53.9043
PCB-19	3.50e+07	1.08	y	1.04	24:09	1.001	0.996-1.006	52.3067	PCB-40	2.91e+07	0.79	y	0.70	34:01	1.066	1.061-1.071	58.0429
PCB-30	5.35e+07	1.06	y	1.71	25:02	1.038	1.032-1.042	48.7201	PCB-57	4.64e+07	0.78	y	0.98	34:22	0.970	0.965-0.975	53.4604
PCB-18	3.89e+07	1.07	y	0.78	25:47	0.954	0.949-0.959	54.5007	PCB-67	5.13e+07	0.79	y	1.11	34:40	0.979	0.974-0.984	52.3225
PCB-17	4.50e+07	1.07	y	0.92	25:58	0.960	0.956-0.966	53.3336	PCB-58	4.48e+07	0.80	y	0.93	34:47	0.982	0.977-0.987	54.5526
PCB-24/27	1.15e+08	1.05	y	1.19	26:32	0.981	0.977-0.987	105.710	PCB-63	4.48e+07	0.78	y	0.95	34:57	0.987	0.982-0.992	53.0702
PCB-16/32	9.03e+07	1.07	y	0.94	27:02	1.000	0.995-1.005	105.100	PCB-74	5.74e+07	0.78	y	1.24	35:14	0.995	0.990-1.000	52.0419
PCB-34	4.64e+07	1.08	y	1.14	27:49	0.959	0.955-0.965	41.2047	PCB-61/70	9.21e+07	0.79	y	0.95	35:24	1.000	0.995-1.005	108.972
PCB-23	5.84e+07	1.08	y	1.28	27:55	0.963	0.959-0.969	46.0037	PCB-76/66	9.94e+07	0.79	y	1.04	35:37	1.006	1.001-1.011	107.355
PCB-29	4.95e+07	1.08	y	1.08	28:11	0.972	0.967-0.977	46.1486	PCB-80	6.01e+07	0.79	y	1.19	35:51	1.001	0.996-1.006	54.7648
PCB-26	5.42e+07	1.08	y	1.21	28:23	0.979	0.974-0.984	45.3057	PCB-55	5.14e+07	0.79	y	1.04	36:11	1.010	1.005-1.015	53.6031
PCB-25	6.16e+07	1.08	y	1.26	28:32	0.984	0.979-0.989	49.1855	PCB-56/60	1.01e+08	0.79	y	1.01	36:41	1.024	1.019-1.029	108.250
PCB-31	6.09e+07	1.08	y	1.28	28:54	0.997	0.992-1.002	47.7813	PCB-79	5.26e+07	0.80	y	1.08	37:45	1.053	1.048-1.058	52.9498
PCB-28	8.24e+07	1.08	y	1.71	29:00	1.000	0.995-1.005	48.5052	PCB-78	5.29e+07	0.80	y	1.27	38:26	0.987	0.982-0.992	50.9290
PCB-20/21/33	1.59e+08	1.07	y	1.08	29:37	1.022	1.017-1.027	148.026	PCB-81	5.60e+07	0.79	y	1.33	38:58	1.001	0.995-1.005	51.5128
PCB-22	5.79e+07	1.10	y	1.21	30:03	1.037	1.032-1.042	48.2829	PCB-77	4.87e+07	0.80	y	1.10	39:34	1.000	0.995-1.005	52.9733
PCB-36	5.10e+07	1.08	y	1.14	30:40	0.933	0.928-0.938	49.1795	PCB-104	3.22e+07	1.61	y	1.18	32:34	1.000	0.996-1.006	54.0483
PCB-39	5.01e+07	1.07	y	1.12	31:08	0.947	0.943-0.953	49.5263	PCB-96	3.03e+07	1.59	y	1.14	33:51	1.040	1.034-1.044	52.8640
PCB-38	4.96e+07	1.08	y	1.20	31:55	0.971	0.966-0.976	45.5731	PCB-103	2.53e+07	1.55	y	0.96	34:22	1.056	1.050-1.060	52.4924
PCB-35	5.67e+07	1.08	y	1.23	32:27	0.987	0.982-0.992	50.7430	PCB-100	2.50e+07	1.58	y	0.94	34:43	1.066	1.061-1.071	53.0690
PCB-37	5.34e+07	1.06	y	1.23	32:53	1.000	0.995-1.005	47.8811	PCB-94	2.10e+07	1.61	y	1.06	35:12	0.985	0.980-0.990	50.4386
PCB-54	4.86e+07	0.79	y	1.10	27:54	1.001	0.996-1.006	52.8995	PCB-95/98/102	7.49e+07	1.60	y	1.22	35:42	0.999	0.995-1.005	155.214
PCB-50	4.07e+07	0.79	y	0.88	29:03	1.042	1.037-1.047	55.4623	PCB-93	1.82e+07	1.61	y	0.84	35:50	1.003	0.997-1.007	54.8013
PCB-53	4.03e+07	0.78	y	1.06	29:42	0.946	0.942-0.952	56.2496	PCB-88/91	4.46e+07	1.58	y	1.12	36:06	1.011	1.005-1.015	101.370
PCB-51	3.66e+07	0.79	y	0.99	30:02	0.957	0.952-0.962	54.8555	PCB-121	3.50e+07	1.63	y	1.62	36:13	1.014	1.009-1.019	54.9549
PCB-45	3.29e+07	0.79	y	0.86	30:28	0.970	0.966-0.976	56.5959	PCB-84/92	4.43e+07	1.63	y	1.05	37:03	0.991	0.985-0.995	106.743
PCB-46	3.17e+07	0.79	y	0.85	30:58	0.986	0.981-0.991	55.6223	PCB-89	2.40e+07	1.64	y	1.13	37:14	0.995	0.991-1.001	53.6478

RL: MONO, TRI - DECA: _____

RL: DI : _____

Integrations

by

Analyst: Dms

Date: 2/19/15

Reviewed

by

Analyst: CS

Date: 2/20/15

Client ID: PCB CS3 14K1102
Lab ID: ST150219E2-1

Filename: 150219E2 S:1 Acq:19-FEB-15 14:07:32
GC Column ID: ZB-1 ICAL: PCBVG8-6-23-14 wt/vol: 1.0000

ConCal: ST150219E2-1

Page 1 of

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	4.63e+07	1.58	y	1.10	37:24	1.000	0.995-1.005	105.994	PCB-133/142	5.37e+07	1.24	y	0.82	42:21	0.982	0.977-0.987	102.127
PCB-113	2.97e+07	1.59	y	1.41	37:39	1.007	1.002-1.012	53.0514	PCB-131	2.96e+07	1.26	y	0.91	42:30	0.986	0.981-0.991	50.8189
PCB-99	2.92e+07	1.64	y	1.34	37:45	1.009	1.004-1.014	55.0094	PCB-146/165	7.93e+07	1.26	y	1.25	42:43	0.991	0.986-0.996	99.1437
PCB-119	2.97e+07	1.62	y	1.53	38:12	0.987	0.982-0.992	53.2356	PCB-132/161	7.13e+07	1.25	y	1.10	42:58	0.996	0.992-1.002	100.594
PCB-108/112	4.91e+07	1.61	y	1.28	38:22	0.991	0.986-0.996	105.167	PCB-153	4.00e+07	1.25	y	1.25	43:09	1.001	0.995-1.005	49.8500
PCB-83	2.79e+07	1.59	y	1.52	38:31	0.955	0.990-1.000	50.3285	PCB-168	4.65e+07	1.24	y	1.45	43:21	1.005	1.001-1.011	50.0223
PCB-97	2.24e+07	1.59	y	1.18	38:44	1.001	0.995-1.005	51.9232	PCB-141	3.12e+07	1.23	y	1.09	43:53	1.000	0.995-1.005	50.6557
PCB-86	1.77e+07	1.57	y	0.84	38:52	1.004	0.999-1.009	57.5452	PCB-137	3.22e+07	1.31	y	1.06	44:16	1.009	1.004-1.014	53.3109
B-87/117/125	9.07e+07	1.63	y	1.55	39:00	1.008	1.002-1.012	160.534	PCB-130	2.86e+07	1.23	y	0.96	44:23	1.012	1.006-1.016	52.1930
PCB-111/115	6.09e+07	1.63	y	1.63	39:09	1.011	1.006-1.016	102.241	PCB-138/163/164	1.17e+08	1.26	y	1.29	44:45	1.001	0.996-1.006	149.804
PCB-85/116	5.21e+07	1.64	y	1.30	39:17	1.015	1.010-1.020	109.781	PCB-158/160	8.29e+07	1.25	y	1.34	45:00	1.006	1.001-1.011	102.164
PCB-120	3.15e+07	1.60	y	1.68	39:30	1.020	1.016-1.026	51.5454	PCB-129	2.67e+07	1.25	y	0.85	45:13	1.011	1.007-1.017	51.8481
PCB-110	2.98e+07	1.61	y	1.56	39:39	1.024	1.020-1.030	52.5653	PCB-166	4.14e+07	1.25	y	1.19	45:41	0.993	0.988-0.998	52.1604
PCB-82	2.00e+07	1.61	y	0.76	40:18	0.977	0.971-0.981	54.1210	PCB-159	3.87e+07	1.23	y	1.11	46:01	1.000	0.996-1.006	51.9727
PCB-124	3.87e+07	1.60	y	1.47	40:58	0.993	0.988-0.998	54.0464	PCB-128/162	7.18e+07	1.27	y	1.05	46:18	1.007	1.002-1.012	102.565
PCB-107/109	6.72e+07	1.63	y	1.32	41:07	0.996	0.991-1.001	104.505	PCB-167	4.56e+07	1.24	y	1.20	46:41	1.000	0.995-1.005	52.3490
PCB-123	3.09e+07	1.58	y	1.17	41:17	1.000	0.996-1.006	54.3790	PCB-156	4.13e+07	1.25	y	1.14	48:00	1.000	0.996-1.006	51.9109
PCB-106/118	6.28e+07	1.63	y	1.17	41:30	1.001	0.996-1.006	103.822	PCB-157	4.37e+07	1.26	y	1.16	48:16	1.000	0.995-1.005	50.7690
PCB-114	4.32e+07	1.54	y	1.30	42:07	1.000	0.995-1.005	45.8066	PCB-169	3.92e+07	1.29	y	1.12	50:23	1.000	0.995-1.005	50.2158
PCB-122	3.92e+07	1.59	y	1.12	42:15	1.003	0.999-1.009	48.0947	PCB-188	3.85e+07	1.08	y	1.58	42:47	1.000	0.996-1.006	52.0762
PCB-105	4.31e+07	1.54	y	1.30	42:59	1.000	0.995-1.005	46.8408	PCB-184	3.91e+07	1.08	y	1.63	43:14	1.011	1.006-1.016	51.2731
PCB-127	4.81e+07	1.61	y	1.33	43:19	1.000	0.996-1.006	46.5272	PCB-179	3.11e+07	1.07	y	1.30	44:01	1.029	1.024-1.034	51.0350
PCB-126	4.00e+07	1.60	y	1.18	43:13	1.000	0.995-1.005	48.2620	PCB-176	3.47e+07	1.08	y	1.48	44:28	1.040	1.035-1.045	50.3546
PCB-155	1.98e+07	1.27	y	1.11	36:58	1.001	0.966-1.006	52.5012	PCB-186	3.53e+07	1.06	y	1.45	45:05	1.055	1.050-1.060	51.9931
PCB-150	1.82e+07	1.30	y	1.00	38:14	1.035	1.030-1.040	53.6476	PCB-178	2.49e+07	1.09	y	1.03	45:34	1.066	1.061-1.071	51.5636
PCB-152	2.03e+07	1.27	y	1.12	38:43	1.048	1.043-1.053	53.6098	PCB-175	2.48e+07	1.07	y	1.01	45:55	1.074	1.069-1.079	52.3982
PCB-145	2.19e+07	1.26	y	1.20	39:10	1.060	1.055-1.065	53.6847	PCB-182/187	6.14e+07	1.07	y	1.25	46:06	1.078	1.073-1.083	104.983
PCB-136	2.31e+07	1.29	y	1.18	39:29	1.069	1.064-1.074	57.8561	PCB-183	2.91e+07	1.07	y	1.21	46:25	1.086	1.081-1.091	51.5660
PCB-148	1.25e+07	1.30	y	0.74	39:35	1.071	1.066-1.076	49.6477	PCB-185	3.25e+07	1.06	y	1.80	47:05	0.956	0.951-0.961	54.3483
PCB-154	1.65e+07	1.29	y	0.86	40:04	1.085	1.080-1.090	56.7002	PCB-174	2.56e+07	1.08	y	1.38	47:26	0.963	0.958-0.968	55.8765
PCB-151	1.46e+07	1.29	y	0.75	40:43	1.102	1.097-1.107	57.4632	PCB-181	2.58e+07	1.08	y	1.38	47:33	0.965	0.960-0.970	56.2392
PCB-135	1.49e+07	1.26	y	0.79	40:56	1.108	1.103-1.113	55.5320	PCB-177	2.33e+07	1.06	y	1.26	47:43	0.969	0.963-0.973	55.7893
PCB-144	1.49e+07	1.29	y	0.76	41:02	1.111	1.105-1.117	57.7500	PCB-171	2.90e+07	1.06	y	1.58	48:01	0.974	0.970-0.980	55.2345
PCB-147	1.66e+07	1.29	y	0.82	41:10	1.114	1.109-1.121	59.5909	PCB-173	2.11e+07	1.06	y	1.11	48:27	0.983	0.978-0.988	57.3754
PCB-139/149	2.93e+07	1.27	y	0.76	41:26	1.122	1.116-1.128	113.140	PCB-172	2.98e+07	1.05	y	1.63	48:53	0.992	0.987-0.997	54.8923
PCB-140	1.41e+07	1.30	y	0.72	41:37	1.127	1.121-1.133	57.5917	PCB-192	3.25e+07	1.07	y	1.74	49:05	0.996	0.991-1.001	56.2745
PCB-134/143	6.09e+07	1.24	y	0.92	42:03	0.975	0.970-0.980	103.555	PCB-180	2.40e+07	1.05	y	1.34	49:17	1.000	0.995-1.005	53.7750

Integrations

by

RL: MONO, TRI - DECA: _____

Analyst: DMS

Date: 2/19/15

Client ID: PCB CS3 14K1102
Lab ID: ST150219E2-1

Filename: 150219E2 S:1 Acq:19-FEB-15 14:07:32
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000

ConCal: ST150219E2-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	3.01e+07	1.07 y	1.72	49:30	1.005	0.999-1.009		52.8714
PCB-191	2.96e+07	1.06 y	1.69	49:44	1.009	1.004-1.014		52.7041
PCB-170	2.33e+07	1.08 y	1.60	50:45	1.000	0.995-1.005		52.9225
PCB-190	3.18e+07	1.04 y	2.21	50:56	1.004	0.998-1.008		52.2127
PCB-189	2.96e+07	1.07 y	1.55	52:14	1.000	0.995-1.005		51.9916
PCB-202	2.10e+07	0.91 y	1.08	48:13	1.000	0.995-1.005		49.9975
PCB-201	2.27e+07	0.95 y	1.15	48:42	1.011	1.005-1.015		50.8022
PCB-204	2.22e+07	0.88 y	1.14	48:52	1.014	1.008-1.018		50.3290
PCB-197	2.07e+07	0.92 y	1.07	49:10	1.020	1.015-1.025		49.6997
PCB-200	2.05e+07	0.90 y	1.06	50:02	1.038	1.032-1.044		49.8018
PCB-198	1.48e+07	0.90 y	0.76	51:20	1.065	1.059-1.069		50.3719
PCB-199	1.65e+07	0.93 y	0.80	51:27	1.068	1.061-1.071		53.3180
- PCB-196/203	3.31e+07	0.92 y	0.80	51:43	1.073	1.066-1.076		106.457
- PCB-195	2.68e+07	0.89 y	1.23	52:52	0.984	0.979-0.989		46.3348
PCB-194	2.57e+07	0.90 y	1.21	53:45	1.000	0.995-1.005		44.9950
PCB-205	3.42e+07	0.90 y	1.54	54:02	1.006	1.001-1.011		47.0654
PCB-208	3.24e+07	1.33 y	0.93	53:01	1.000	0.995-1.005		50.7714
PCB-207	3.84e+07	1.31 y	1.08	53:20	1.006	1.001-1.011		51.6196
PCB-206	2.49e+07	1.31 y	1.02	55:24	1.000	0.995-1.005		50.5978
PCB-209	2.80e+07	1.18 y	1.17	56:45	1.000	0.995-1.005		51.3849

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	2.09e+08	3.00 y	16:05	1.27	139.556
Total Di-PCB	1.34e+09	1.60 y	20:03	1.21	1074.75
Total Tri-PCB	3.78e+08	1.08 y	24:09	1.10	419.671
Total Tri-PCB	8.94e+08	1.08 y	27:49	1.21	766.025
Total Tetra-PCB	1.94e+09	0.79 y	27:54	1.09	2290.27
Total Penta-PCB	1.11e+09	1.61 y	32:34	1.18	2173.32
Total Penta-PCB	2.21e+08	1.54 y	42:07	1.25	243.847
Total Hexa-PCB	2.37e+08	1.27 y	36:58	0.90	778.717
Total Hexa-PCB	1.03e+09	1.24 y	42:03	1.11	1446.30
Total Hepta-PCB	7.13e+08	1.08 y	42:47	1.42	1290.34
Total Octa-PCB	1.72e+08	0.91 y	48:13	0.96	460.777
Total Octa-PCB	9.00e+07	0.89 y	52:52	1.33	143.747
Total Nona-PCB	9.66e+07	1.33 y	53:01	1.01	154.455
Total Deca-PCB	2.80e+07	1.18 y	56:45	1.17	51.3849

Total PCB Conc:11367.6406790

Integrations
by
Analyst: DMS
Date: 2/19/15
RL: MONO, TRI - DECA: _____

Client ID: PCB CS3 14K1102
Lab ID: ST150219E2-1

Filename: 150219E2 S:1 Acq:19-FEB-15 14:07:32
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol:1.0000

ConCal: ST150219E2-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.15e+08	3.28 y	0.87	16:04	0.622	0.629-0.635		112	112
13C-PCB-3	1.19e+08	3.27 y	0.91	18:40	0.722	0.725-0.733		111	111
13C-PCB-4	7.21e+07	1.58 y	0.59	19:60	0.774	0.775-0.783		104	104
13C-PCB-9	1.04e+08	1.56 y	0.90	21:46	0.842	0.842-0.850		98.7	98.7
13C-PCB-11	1.10e+08	1.55 y	0.94	25:08	0.973	0.968-0.978		99.4	99.4
13C-PCB-19	6.42e+07	1.08 y	0.53	24:08	0.934	0.930-0.940		103	103
13C-PCB-28	9.93e+07	1.06 y	0.93	28:59	1.000	0.999-1.009		107	107
13C-PCB-32	9.14e+07	1.07 y	0.80	27:02	1.046	1.040-1.050		97.4	97.4
13C-PCB-37	9.08e+07	1.07 y	0.84	32:52	1.134	1.131-1.143		109	109
13C-PCB-47	7.16e+07	0.80 y	0.81	31:54	0.870	0.866-0.874		98.6	98.6
13C-PCB-52	6.73e+07	0.79 y	0.77	31:24	0.856	0.853-0.861		97.7	97.7
13C-PCB-54	8.33e+07	0.81 y	0.97	27:53	0.760	0.758-0.766		96.0	96.0
13C-PCB-70	8.87e+07	0.81 y	1.00	35:25	0.966	0.961-0.971		99.4	99.4
13C-PCB-77	8.34e+07	0.80 y	0.94	39:33	1.079	1.073-1.083		99.1	99.1
13C-PCB-80	9.20e+07	0.80 y	1.03	35:50	0.977	0.972-0.982		99.8	99.8
13C-PCB-81	8.17e+07	0.79 y	0.92	38:57	1.062	1.057-1.067		99.2	99.2
13C-PCB-95	3.94e+07	1.60 y	0.74	35:43	0.913	0.908-0.918		103	103
13C-PCB-97	3.65e+07	1.58 y	0.70	38:43	0.989	0.984-0.994		101	101
13C-PCB-101	3.97e+07	1.60 y	0.78	37:24	0.956	0.951-0.961		98.6	98.6
13C-PCB-104	5.03e+07	1.64 y	1.00	32:33	0.832	0.828-0.836		97.8	97.8
13C-PCB-105	7.09e+07	1.57 y	1.37	42:59	0.929	0.924-0.934		93.6	93.6
13C-PCB-114	7.27e+07	1.63 y	1.36	42:07	0.910	0.905-0.915		96.2	96.2
13C-PCB-118	5.15e+07	1.65 y	0.96	41:27	1.059	1.054-1.064		105	105
13C-PCB-123	4.87e+07	1.62 y	0.89	41:16	1.055	1.050-1.060		106	106
13C-PCB-126	7.01e+07	1.62 y	1.31	45:13	0.977	0.972-0.982		96.7	96.7
13C-PCB-127	7.75e+07	1.61 y	1.47	43:19	0.936	0.931-0.941		94.9	94.9
13C-PCB-138	6.05e+07	1.26 y	1.10	44:43	0.966	0.961-0.971		99.1	99.1
13C-PCB-141	5.68e+07	1.26 y	1.07	43:52	0.948	0.943-0.953		95.4	95.4
13C-PCB-153	6.42e+07	1.30 y	1.15	43:07	0.932	0.927-0.937		101	101
13C-PCB-155	3.40e+07	1.31 y	0.84	36:57	0.944	0.939-0.949		78.7	78.7
13C-PCB-156	7.01e+07	1.26 y	1.30	47:59	1.037	1.032-1.042		97.5	97.5
13C-PCB-157	7.40e+07	1.28 y	1.36	48:15	1.043	1.038-1.048		98.3	98.3
13C-PCB-159	6.69e+07	1.31 y	1.25	45:60	0.994	0.989-0.999		96.7	96.7
13C-PCB-167	7.27e+07	1.27 y	1.35	46:41	1.009	1.004-1.014		96.9	96.9
13C-PCB-169	6.97e+07	1.29 y	1.29	50:23	1.089	1.083-1.093		97.8	97.8
13C-PCB-170	2.76e+07	0.48 y	0.54	50:45	1.096	1.089-1.101		91.7	91.7
13C-PCB-180	3.32e+07	0.46 y	0.68	49:16	1.065	1.060-1.070		87.5	87.5
13C-PCB-188	4.67e+07	0.47 y	0.92	42:45	0.924	0.919-0.929		91.8	91.8
13C-PCB-189	3.68e+07	0.47 y	0.72	52:13	1.128	1.120-1.132		92.5	92.5
13C-PCB-194	4.72e+07	0.90 y	0.80	53:44	0.995	0.990-1.000		96.9	96.9
13C-PCB-202	3.88e+07	0.92 y	0.84	48:12	1.041	1.036-1.046		83.5	83.5
13C-PCB-206	4.81e+07	0.80 y	0.65	55:23	1.025	1.021-1.031		121	121
13C-PCB-208	6.87e+07	0.78 y	1.08	53:00	0.981	0.976-0.986		104	104
13C-PCB-209	4.65e+07	1.18 y	0.61	56:44	1.050	1.045-1.055		125	125

CRS vs. RS									
Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	8.99e+07	0.79 y	1.02	37:43	1.029	1.023-1.034		99.1	99.1
13C-PCB-178	3.17e+07	0.47 y	0.61	45:33	0.984	0.979-0.990		93.1	93.1

PS vs. IS									
Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-79	8.99e+07	0.79 y	1.10	37:43	0.968	0.964-0.974		99.8	99.8
13C-PCB-178	3.17e+07	0.47 y	0.90	45:33	0.925	0.920-0.930		106	106

* RRT limits used for processing only. RRT'S
ARE WITHIN 168C METHOD LIMITS.
DMS 2/19/15

RS					
Name	Resp	RA	RRF	RT	Conc
13C-PCB-15	1.18e+08	1.55 y	1.00	25:51	100
13C-PCB-31	9.93e+07	1.06 y	1.00	28:59	100
13C-PCB-60	8.93e+07	0.81 y	1.00	36:40	100
13C-PCB-111	5.13e+07	1.63 y	1.00	39:08	100
13C-PCB-128	5.55e+07	1.30 y	1.00	46:17	100
13C-PCB-205	6.10e+07	0.88 y	1.00	54:01	100

Analyst: DMS

Date: 2/19/15

Vista Analytical Laboratory - Injection Log Run file: 150219E2 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
150219E2	1	ST150219E2-1	DMS	19-FEB-15	14:07:32	ST150219E2-1	NA
150219E2	2	B5B0059-BS1	DMS	19-FEB-15	15:11:34	ST150219E2-1	NA
150219E2	3	B5B0069-BS1	DMS	19-FEB-15	16:15:42	ST150219E2-1	NA
150219E2	4	SOLVENT BLANK	DMS	19-FEB-15	17:19:48	ST150219E2-1	NA
150219E2	5	B5B0059-BLK1	DMS	19-FEB-15	18:23:55	ST150219E2-1	NA
150219E2	6	B5B0069-BLK1	DMS	19-FEB-15	19:28:02	ST150219E2-1	NA
150219E2	7	1500147-02@10X	DMS	19-FEB-15	20:32:10	ST150219E2-1	NA
150219E2	8	1500147-03@10X	DMS	19-FEB-15	21:36:17	ST150219E2-1	NA
150219E2	9	1500147-04@10X	DMS	19-FEB-15	22:40:24	ST150219E2-1	NA
150219E2	10	1500166-04@10X	DMS	19-FEB-15	23:44:30	ST150219E2-1	NA
150219E2	11	1500166-05@10X	DMS	20-FEB-15	00:48:35	ST150219E2-1	NA
150219E2	12	SOLVENT BLANK	DMS	20-FEB-15	01:52:43	ST150219E2-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST150219EZ-1

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentration within range?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input type="checkbox"/> N/A	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/> 2/19/15	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Run Log:		
-Data file matches Conc Cal ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-Samples within 12-hour clock?	<input type="checkbox"/> (y)	<input type="checkbox"/> n

	<u>Beg.</u>	<u>End</u>
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF valleys < 25%?	<input type="checkbox"/> N/A	<input type="checkbox"/> No
Peaks integrated correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Manual integrations included?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8280 CS1 Ending Standard		
-Ratios within limits		<input type="checkbox"/>
-S/N > 2.5:1		<input type="checkbox"/>
-CS1 within 12-hour clock		<input type="checkbox"/>

Comments:

Reviewed by: AS 2/20/15
Initials & Date

* Ending standard criteria applicable to 8290 only.

Lab Name: Vista Analytical Laboratory Lab ID: ST150226E1-1 Instrument ID: VG-8

Initial Calibration Date: 1-14-15 ICal ID: PCBVG8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150226E1 S#1 Analysis Date: 26-FEB-15 Time: 11:45:43

ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	RANGE (ng/mL)	ANALYTES	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	RANGE (ng/mL)
PCB-1	3.01	2.66-3.60	y	37.5	37.5-62.5	PCB-52/69	0.85	0.65-0.89	y	101.7	75.0-125
PCB-2	3.03	2.66-3.60	y	37.6	37.5-62.5	PCB-73	0.70	0.65-0.89	y	50.5	37.5-62.5
PCB-3	2.99	2.66-3.60	y	38.5	37.5-62.5	PCB-43/49	0.80	0.65-0.89	y	98.6	75.0-125
PCB-4/10	1.60	1.33-1.79	y	84.9	75-125	PCB-47	0.79	0.65-0.89	y	47.3	37.5-62.5
PCB-7/9	1.62	1.33-1.79	y	89.0	75-125	PCB-48/75	0.80	0.65-0.89	y	103.5	75.0-125
PCB-6	1.62	1.33-1.79	y	44.7	37.5-62.5	PCB-65	0.80	0.65-0.89	y	52.3	37.5-62.5
PCB-5/8	1.61	1.33-1.79	y	88.6	75-125	PCB-62	0.79	0.65-0.89	y	49.4	37.5-62.5
PCB-14	1.61	1.33-1.79	y	43.7	37.5-62.5	PCB-44	0.80	0.65-0.89	y	54.8	37.5-62.5
PCB-11	1.63	1.33-1.79	y	43.9	37.5-62.5	PCB-42/59	0.80	0.65-0.89	y	105.5	75.0-125
PCB-12/13	1.62	1.33-1.79	y	88.2	75-125	PCB-41/64/71/72	0.80	0.65-0.89	y	202.6	150-250
PCB-15	1.64	1.33-1.79	y	44.0	37.5-62.5	PCB-68	0.78	0.65-0.89	y	47.7	37.5-62.5
PCB-19	1.08	0.88-1.20	y	48.9	37.5-62.5	PCB-40	0.81	0.65-0.89	y	50.2	37.5-62.5
PCB-30	1.08	0.88-1.20	y	47.7	37.5-62.5	PCB-57	0.79	0.65-0.89	y	49.4	37.5-62.5
PCB-18	1.09	0.88-1.20	y	48.6	37.5-62.5	PCB-67	0.77	0.65-0.89	y	47.2	37.5-62.5
PCB-17	1.09	0.88-1.20	y	50.2	37.5-62.5	PCB-58	0.79	0.65-0.89	y	54.0	37.5-62.5
PCB-24/27	1.09	0.88-1.20	y	96.6	75.0-125	PCB-63	0.80	0.65-0.89	y	50.0	37.5-62.5
PCB-16/32	1.08	0.88-1.20	y	97.0	75.0-125	PCB-74	0.78	0.65-0.89	y	49.9	37.5-62.5
PCB-34	1.07	0.88-1.20	y	43.6	37.5-62.5	PCB-61/70	0.80	0.65-0.89	y	98.4	75.0-125
PCB-23	1.10	0.88-1.20	y	44.2	37.5-62.5	PCB-76/66	0.80	0.65-0.89	y	97.3	75.0-125
PCB-29	1.08	0.88-1.20	y	47.3	37.5-62.5	PCB-80	0.79	0.65-0.89	y	48.5	37.5-62.5
PCB-26	1.10	0.88-1.20	y	45.6	37.5-62.5	PCB-55	0.78	0.65-0.89	y	48.2	37.5-62.5
PCB-25	1.10	0.88-1.20	y	47.0	37.5-62.5	PCB-56/60	0.79	0.65-0.89	y	99.4	75.0-125
PCB-31	1.08	0.88-1.20	y	45.8	37.5-62.5	PCB-79	0.80	0.65-0.89	y	50.2	37.5-62.5
PCB-28	1.08	0.88-1.20	y	47.0	37.5-62.5	PCB-78	0.80	0.65-0.89	y	47.7	37.5-62.5
PCB-20/21/33	1.08	0.88-1.20	y	140.6	112.5-225	PCB-81	0.80	0.65-0.89	y	46.9	37.5-62.5
PCB-22	1.07	0.88-1.20	y	45.6	37.5-62.5	PCB-77	0.81	0.65-0.89	y	48.0	37.5-62.5
PCB-36	1.09	0.88-1.20	y	45.9	37.5-62.5	PCB-104	1.59	1.32-1.78	y	48.2	37.5-62.5
PCB-39	1.09	0.88-1.20	y	48.7	37.5-62.5	PCB-96	1.58	1.32-1.78	y	47.8	37.5-62.5
PCB-38	1.08	0.88-1.20	y	46.4	37.5-62.5	PCB-103	1.63	1.32-1.78	y	49.3	37.5-62.5
PCB-35	1.09	0.88-1.20	y	46.0	37.5-62.5	PCB-100	1.59	1.32-1.78	y	48.4	37.5-62.5
PCB-37	1.08	0.88-1.20	y	46.5	37.5-62.5	PCB-94	1.61	1.32-1.78	y	47.9	37.5-62.5
PCB-54	0.80	0.65-0.89	y	51.1	37.5-62.5	PCB-95/98/102	1.58	1.32-1.78	y	136.1	112.5-225
PCB-50	0.79	0.65-0.89	y	51.6	37.5-62.5	PCB-93	1.56	1.32-1.78	y	52.3	37.5-62.5
PCB-53	0.80	0.65-0.89	y	51.9	37.5-62.5	PCB-88/91	1.55	1.32-1.78	y	101.4	75.0-125
PCB-51	0.79	0.65-0.89	y	50.9	37.5-62.5	PCB-121	1.62	1.32-1.78	y	44.1	37.5-62.5
PCB-45	0.80	0.65-0.89	y	50.4	37.5-62.5						
PCB-46	0.81	0.65-0.89	y	51.4	37.5-62.5						

Analyst: DMS

Date: 2/26/15

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150226E1-1 Instrument ID: VG-8
 Initial Calibration Date: 1-14-15 ICal ID: PCBVG8-1-14-15 GC Column ID: ZB-1
 VER Data Filename: 150226E1 S#1 Analysis Date: 26-FEB-15 Time: 11:45:43

ANALYTES	ION	QC	PASS	CONC.	CONC. RANGE (ng/mL)	ANALYTES	ION	QC	PASS	CONC.	CONC. RANGE (ng/mL)
	ABUND.	LIMITS		FOUND			ABUND.	LIMITS		FOUND	
	RATIO			FOUND			RATIO			FOUND	
PCB-84/92	1.59	1.32-1.78	y	99.4	75.0-125	PCB-140	1.28	1.05-1.43	y	50.5	37.5-62.5
PCB-89	1.59	1.32-1.78	y	50.8	37.5-62.5	PCB-134/143	1.29	1.05-1.43	y	95.5	75.0-125
PCB-90/101	1.60	1.32-1.78	y	96.2	75.0-125	PCB-133/142	1.28	1.05-1.43	y	95.6	75.0-125
PCB-113	1.57	1.32-1.78	y	46.0	37.5-62.5	PCB-131	1.27	1.05-1.43	y	51.1	37.5-62.5
PCB-99	1.58	1.32-1.78	y	50.0	37.5-62.5	PCB-146/165	1.29	1.05-1.43	y	100.5	75.0-125
PCB-119	1.58	1.32-1.78	y	46.7	37.5-62.5	PCB-132/161	1.34	1.05-1.43	y	100.2	75.0-125
PCB-108/112	1.60	1.32-1.78	y	94.6	75.0-125	PCB-153	1.19	1.05-1.43	y	46.5	37.5-62.5
PCB-83	1.56	1.32-1.78	y	48.4	37.5-62.5	PCB-168	1.27	1.05-1.43	y	49.4	37.5-62.5
PCB-97	1.61	1.32-1.78	y	47.2	37.5-62.5	PCB-141	1.29	1.05-1.43	y	49.0	37.5-62.5
PCB-86	1.54	1.32-1.78	y	48.5	37.5-62.5	PCB-137	1.30	1.05-1.43	y	51.0	37.5-62.5
PCB-87/117/125	1.59	1.32-1.78	y	141.9	112.5-225	PCB-130	1.28	1.05-1.43	y	51.4	37.5-62.5
PCB-111/115	1.59	1.32-1.78	y	91.5	75.0-125	PCB-138/163/164	1.29	1.05-1.43	y	145.0	112.5-225
PCB-85/116	1.59	1.32-1.78	y	95.9	75.0-125	PCB-158/160	1.27	1.05-1.43	y	99.2	75.0-125
PCB-120	1.54	1.32-1.78	y	45.7	37.5-62.5	PCB-129	1.30	1.05-1.43	y	48.7	37.5-62.5
PCB-110	1.62	1.32-1.78	y	46.5	37.5-62.5	PCB-166	1.29	1.05-1.43	y	51.8	37.5-62.5
PCB-82	1.56	1.32-1.78	y	51.2	37.5-62.5	PCB-159	1.28	1.05-1.43	y	51.3	37.5-62.5
PCB-124	1.59	1.32-1.78	y	50.1	37.5-62.5	PCB-128/162	1.30	1.05-1.43	y	100.2	75.0-125
PCB-107/109	1.59	1.32-1.78	y	90.6	75.0-125	PCB-167	1.28	1.05-1.43	y	50.2	37.5-62.5
PCB-123	1.59	1.32-1.78	y	49.0	37.5-62.5	PCB-156	1.28	1.05-1.43	y	49.6	37.5-62.5
PCB-106/118	1.62	1.32-1.78	y	97.3	75.0-125	PCB-157	1.29	1.05-1.43	y	49.9	37.5-62.5
PCB-114	1.57	1.32-1.78	y	43.1	37.5-62.5	PCB-169	1.29	1.05-1.43	y	49.7	37.5-62.5
PCB-122	1.61	1.32-1.78	y	44.1	37.5-62.5	PCB-188	1.09	0.89-1.21	y	49.8	37.5-62.5
PCB-105	1.61	1.32-1.78	y	41.5	37.5-62.5	PCB-184	1.06	0.89-1.21	y	49.4	37.5-62.5
PCB-127	1.60	1.32-1.78	y	42.0	37.5-62.5	PCB-179	1.09	0.89-1.21	y	47.1	37.5-62.5
PCB-126	1.62	1.32-1.78	y	42.4	37.5-62.5	PCB-176	1.08	0.89-1.21	y	47.6	37.5-62.5
PCB-155	1.28	1.05-1.43	y	49.4	37.5-62.5	PCB-186	1.07	0.89-1.21	y	49.9	37.5-62.5
PCB-150	1.28	1.05-1.43	y	48.8	37.5-62.5	PCB-178	1.06	0.89-1.21	y	47.6	37.5-62.5
PCB-152	1.26	1.05-1.43	y	48.1	37.5-62.5	PCB-175	1.08	0.89-1.21	y	47.4	37.5-62.5
PCB-145	1.26	1.05-1.43	y	49.4	37.5-62.5	PCB-182/187	1.07	0.89-1.21	y	95.8	75.0-125
PCB-136	1.42	1.05-1.43	y	50.7	37.5-62.5	PCB-183	1.05	0.89-1.21	y	49.2	37.5-62.5
PCB-148	1.10	1.05-1.43	y	48.5	37.5-62.5	PCB-185	1.05	0.89-1.21	y	50.1	37.5-62.5
PCB-154	1.29	1.05-1.43	y	50.0	37.5-62.5	PCB-174	1.06	0.89-1.21	y	45.3	37.5-62.5
PCB-151	1.29	1.05-1.43	y	49.5	37.5-62.5	PCB-181	1.05	0.89-1.21	y	55.2	37.5-62.5
PCB-135	1.28	1.05-1.43	y	51.9	37.5-62.5	PCB-177	1.05	0.89-1.21	y	47.4	37.5-62.5
PCB-144	1.30	1.05-1.43	y	48.9	37.5-62.5	PCB-171	1.07	0.89-1.21	y	49.1	37.5-62.5
PCB-147	1.31	1.05-1.43	y	50.1	37.5-62.5	PCB-173	1.07	0.89-1.21	y	52.1	37.5-62.5
PCB-139/149	1.26	1.05-1.43	y	97.6	75.0-125	PCB-172	1.04	0.89-1.21	y	49.6	37.5-62.5

Analyst: Dms

Date: 2/26/15

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150226E1-1 Instrument ID: VG-8

Initial Calibration Date: 1-14-15 ICal ID: PCBVG8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150226E1 S#1 Analysis Date: 26-FEB-15 Time: 11:45:43

ANALYTES	ION	QC	PASS	CONC.	CONC.
	ABUND.	LIMITS		CONC.	RANGE
	RATIO			FOUND	(ng/mL)
PCB-192	1.08	0.89-1.21	y	50.3	37.5-62.5
PCB-180	1.09	0.89-1.21	y	48.4	37.5-62.5
PCB-193	1.07	0.89-1.21	y	50.7	37.5-62.5
PCB-191	1.07	0.89-1.21	y	51.7	37.5-62.5
PCB-170	1.06	0.89-1.21	y	50.2	37.5-62.5
PCB-190	1.07	0.89-1.21	y	51.3	37.5-62.5
PCB-189	1.06	0.89-1.21	y	49.9	37.5-62.5
PCB-202	0.91	0.76-1.02	y	48.9	37.5-62.5
PCB-201	0.89	0.76-1.02	y	50.2	37.5-62.5
PCB-204	0.91	0.76-1.02	y	48.1	37.5-62.5
PCB-197	0.91	0.76-1.02	y	49.6	37.5-62.5
PCB-200	0.91	0.76-1.02	y	52.4	37.5-62.5
PCB-198	0.92	0.76-1.02	y	51.7	37.5-62.5
PCB-199	0.91	0.76-1.02	y	54.1	37.5-62.5
PCB-196/203	0.90	0.76-1.02	y	104.4	75.0-125
PCB-195	0.92	0.76-1.02	y	46.8	37.5-62.5
PCB-194	0.91	0.76-1.02	y	43.9	37.5-62.5
PCB-205	0.90	0.76-1.02	y	45.9	37.5-62.5
PCB-208	1.37	1.14-1.54	y	50.0	37.5-62.5
PCB-207	1.34	1.14-1.54	y	49.2	37.5-62.5
PCB-206	1.36	1.14-1.54	y	50.9	37.5-62.5
PCB-209	1.17	0.99-1.33	y	45.3	37.5-62.5

Analyst: DMS

Date: 2/26/15

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150226E1-1 Instrument ID: VG-8

Initial Calibration Date: 1-14-15 ICal ID: PCBVG8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150226E1 S#1 Analysis Date: 26-FEB-15 Time: 11:45:43

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	CONC. RANGE (ng/mL)	LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-1	3.25	2.66-3.60	y	143.0	50.0-145	13C-PCB-169	1.33	1.05-1.43	y	106.0	50 - 145
13C-PCB-3	3.21	2.66-3.60	y	143.6	50.0-145	13C-PCB-188	0.46	0.38-0.52	y	98.9	50 - 145
13C-PCB-4	1.58	1.33-1.79	y	102.8	50.0-145	13C-PCB-180	0.47	0.38-0.52	y	97.0	50 - 145
13C-PCB-9	1.56	1.33-1.79	y	98.2	50.0-145	13C-PCB-170	0.46	0.38-0.52	y	99.1	50 - 145
13C-PCB-11	1.55	1.33-1.79	y	99.3	50.0-145	13C-PCB-189	0.47	0.38-0.52	y	109.4	50 - 145
13C-PCB-19	1.07	0.88-1.20	y	113.6	50.0-145	13C-PCB-202	0.95	0.76-1.02	y	97.4	50 - 145
13C-PCB-32	1.11	0.88-1.20	y	107.4	50.0-145	13C-PCB-194	0.92	0.76-1.02	y	101.0	50 - 145
13C-PCB-28	1.07	0.88-1.20	y	102.7	50.0-145	13C-PCB-208	0.80	0.65-0.89	y	97.5	50 - 145
13C-PCB-37	1.09	0.88-1.20	y	104.2	50.0-145	13C-PCB-206	0.79	0.65-0.89	y	110.5	50 - 145
13C-PCB-54	0.80	0.65-0.89	y	101.4	50.0-145	13C-PCB-209	1.20	0.99-1.33	y	113.5	50 - 145
13C-PCB-52	0.81	0.65-0.89	y	103.0	50.0-145						
13C-PCB-47	0.80	0.65-0.89	y	98.0	50.0-145						
13C-PCB-70	0.83	0.65-0.89	y	98.8	50.0-145						
13C-PCB-80	0.83	0.65-0.89	y	98.8	50.0-145						
13C-PCB-81	0.82	0.65-0.89	y	100.6	50.0-145						
13C-PCB-77	0.82	0.65-0.89	y	101.0	50.0-145						
13C-PCB-104	1.61	1.32-1.78	y	99.2	50.0-145						
13C-PCB-95	1.67	1.32-1.78	y	102.4	50.0-145						
13C-PCB-101	1.61	1.32-1.78	y	99.2	50.0-145	CRS vs. RS					
13C-PCB-97	1.63	1.32-1.78	y	103.5	50.0-145						
13C-PCB-123	1.63	1.32-1.78	y	102.5	50.0-145	13C-PCB-79	0.83	0.65-0.89	y	101.7	75 - 125
13C-PCB-118	1.65	1.32-1.78	y	98.0	50.0-145	13C-PCB-178	0.47	0.38-0.52	y	96.4	75 - 125
13C-PCB-114	1.63	1.32-1.78	y	100.3	50.0-145						
13C-PCB-105	1.61	1.32-1.78	y	110.6	50.0-145						
13C-PCB-127	1.60	1.32-1.78	y	108.5	50.0-145						
13C-PCB-126	1.62	1.32-1.78	y	111.6	50.0-145						
13C-PCB-155	1.26	1.05-1.43	y	96.0	50.0-145						
13C-PCB-153	1.31	1.05-1.43	y	100.1	50.0-145						
13C-PCB-141	1.34	1.05-1.43	y	99.9	50.0-145						
13C-PCB-138	1.33	1.05-1.43	y	98.4	50.0-145						
13C-PCB-159	1.31	1.05-1.43	y	98.9	50.0-145						
13C-PCB-167	1.29	1.05-1.43	y	101.0	50.0-145						
13C-PCB-156	1.32	1.05-1.43	y	99.4	50.0-145						
13C-PCB-157	1.33	1.05-1.43	y	98.3	50.0-145						

Analyst: Dms

Date: 2/27/15

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	7.06e+07	3.01	y	1.33	16:10	1.001	0.997-1.007	37.5218	PCB-52/69	8.17e+07	0.85	y	1.29	31:31	1.001	0.996-1.006	101.681
PCB-2	7.15e+07	3.03	y	1.30	18:32	0.988	0.983-0.993	37.5774	PCB-73	4.44e+07	0.70	y	1.41	31:38	1.005	0.999-1.009	50.5326
PCB-3	7.34e+07	2.99	y	1.30	18:46	1.001	0.996-1.006	38.5205	PCB-43/49	6.99e+07	0.80	y	1.14	31:48	1.010	1.005-1.015	98.6462
PCB-4/10	9.46e+07	1.60	y	1.67	20:08	1.003	0.997-1.007	84.8512	PCB-47	3.62e+07	0.79	y	1.20	31:60	1.001	0.996-1.006	47.2833
PCB-7/9	1.14e+08	1.62	y	1.25	21:54	0.868	0.864-0.872	89.0070	PCB-48/75	8.77e+07	0.80	y	1.33	32:07	1.004	0.999-1.009	103.550
PCB-6	5.66e+07	1.62	y	1.24	22:33	0.894	0.888-0.897	44.7401	PCB-65	4.39e+07	0.80	y	1.32	32:23	1.013	1.007-1.017	52.2810
PCB-5/8	1.15e+08	1.61	y	1.27	22:58	0.910	0.905-0.915	88.5550	PCB-62	4.28e+07	0.79	y	1.36	32:30	1.016	1.011-1.021	49.3570
PCB-14	6.61e+07	1.61	y	1.47	24:03	0.953	0.948-0.958	43.7488	PCB-44	3.05e+07	0.80	y	0.87	32:47	1.025	1.020-1.030	54.8498
PCB-11	5.79e+07	1.63	y	1.28	25:15	1.001	0.995-1.005	43.8679	PCB-42/59	8.32e+07	0.80	y	1.24	33:01	1.032	1.027-1.037	105.478
PCB-12/13	1.15e+08	1.62	y	1.27	25:38	1.016	1.011-1.021	88.1522	PCB-41/64/71/72	1.73e+08	0.80	y	1.34	33:36	1.051	1.045-1.055	202.640
PCB-15	6.52e+07	1.64	y	1.44	25:56	1.028	1.023-1.031	44.0195	PCB-68	4.90e+07	0.78	y	1.61	33:52	1.059	1.053-1.063	47.7397
PCB-19	4.01e+07	1.08	y	1.18	24:14	1.001	0.996-1.006	48.8888	PCB-40	2.75e+07	0.81	y	0.86	34:05	1.066	1.061-1.071	50.2151
PCB-30	6.19e+07	1.08	y	1.87	25:08	1.038	1.033-1.043	47.6751	PCB-57	4.61e+07	0.79	y	1.12	34:26	0.970	0.965-0.975	49.4125
PCB-18	4.14e+07	1.09	y	0.89	25:52	0.954	0.949-0.959	48.5902	PCB-67	4.29e+07	0.77	y	1.09	34:44	0.979	0.974-0.984	47.1628
PCB-17	4.62e+07	1.09	y	0.96	26:03	0.960	0.956-0.966	50.1703	PCB-58	5.11e+07	0.79	y	1.14	34:51	0.982	0.977-0.987	54.0039
PCB-24/27	1.21e+08	1.09	y	1.30	26:37	0.981	0.977-0.987	96.5624	PCB-63	4.84e+07	0.80	y	1.16	35:01	0.987	0.981-0.991	49.9649
PCB-16/32	9.78e+07	1.08	y	1.05	27:07	1.000	0.996-1.006	97.0137	PCB-74	5.04e+07	0.78	y	1.21	35:18	0.995	0.989-0.999	49.8622
PCB-34	5.33e+07	1.07	y	1.30	27:55	0.960	0.955-0.965	43.6261	PCB-61/70	9.23e+07	0.80	y	1.13	35:28	1.000	0.995-1.005	98.4436
PCB-23	5.02e+07	1.10	y	1.21	28:01	0.964	0.958-0.968	44.2458	PCB-76/66	9.55e+07	0.80	y	1.18	35:41	1.006	1.000-1.010	97.2772
PCB-29	5.37e+07	1.08	y	1.21	28:15	0.972	0.967-0.977	47.2897	PCB-80	5.50e+07	0.79	y	1.32	35:55	1.001	0.995-1.005	48.5068
PCB-26	5.29e+07	1.10	y	1.24	28:28	0.979	0.974-0.984	45.5754	PCB-55	5.08e+07	0.78	y	1.23	36:15	1.010	1.004-1.014	48.2404
PCB-25	4.84e+07	1.10	y	1.10	28:38	0.985	0.980-0.990	46.9601	PCB-56/60	9.42e+07	0.79	y	1.11	36:45	1.023	1.018-1.028	99.4372
PCB-31	5.39e+07	1.08	y	1.25	28:59	0.997	0.992-1.002	45.8397	PCB-79	4.99e+07	0.80	y	1.16	37:48	1.053	1.048-1.058	50.2350
PCB-28	5.46e+07	1.08	y	1.24	29:05	1.000	0.996-1.006	47.0460	PCB-78	4.79e+07	0.80	y	1.18	38:30	0.987	0.982-0.992	47.7199
PCB-20/21/33	1.53e+08	1.08	y	1.16	29:42	1.022	1.016-1.026	140.628	PCB-81	5.16e+07	0.80	y	1.29	39:01	1.000	0.995-1.005	46.9311
PCB-22	4.98e+07	1.07	y	1.16	30:08	1.037	1.032-1.042	45.5980	PCB-77	5.12e+07	0.81	y	1.29	39:37	1.000	0.995-1.005	47.9762
PCB-36	5.12e+07	1.09	y	1.30	30:45	0.934	0.929-0.939	45.8637	PCB-104	3.58e+07	1.59	y	1.26	32:39	1.001	0.996-1.006	48.2146
PCB-39	5.27e+07	1.09	y	1.26	31:13	0.948	0.943-0.953	48.6618	PCB-96	3.07e+07	1.58	y	1.09	33:54	1.039	1.034-1.044	47.7611
PCB-38	4.96e+07	1.08	y	1.24	31:59	0.971	0.967-0.977	46.4434	PCB-103	2.81e+07	1.63	y	0.97	34:27	1.056	1.051-1.061	49.2746
PCB-35	4.97e+07	1.09	y	1.26	32:31	0.987	0.982-0.992	46.0295	PCB-100	2.74e+07	1.59	y	0.96	34:47	1.066	1.061-1.071	48.3656
PCB-37	5.39e+07	1.08	y	1.35	32:57	1.000	0.996-1.006	46.4825	PCB-94	2.38e+07	1.61	y	1.13	35:16	0.985	0.980-0.990	47.9353
PCB-54	4.78e+07	0.80	y	1.02	27:58	1.001	0.996-1.006	51.1475	PCB-95/98/102	7.70e+07	1.58	y	1.29	35:45	0.999	0.994-1.004	136.075
PCB-50	3.66e+07	0.79	y	0.78	29:08	1.042	1.037-1.047	51.6020	PCB-93	2.44e+07	1.56	y	1.06	35:53	1.003	0.998-1.008	52.2738
PCB-53	3.67e+07	0.80	y	1.14	29:47	0.946	0.941-0.951	51.8703	PCB-88/91	5.00e+07	1.55	y	1.12	36:10	1.011	1.006-1.016	101.355
PCB-51	3.68e+07	0.79	y	1.16	30:07	0.957	0.952-0.962	50.9442	PCB-121	3.41e+07	1.62	y	1.76	36:17	1.014	1.009-1.019	44.0623
PCB-45	3.27e+07	0.80	y	1.04	30:33	0.971	0.965-0.975	50.4371	PCB-84/92	4.97e+07	1.59	y	1.07	37:06	0.990	0.985-0.995	99.4009
PCB-46	3.04e+07	0.81	y	0.95	31:02	0.986	0.981-0.991	51.4315	PCB-89	2.36e+07	1.59	y	1.00	37:17	0.995	0.990-1.000	50.8377

Integrations
 by
 Analyst: DMS
 Date: 2/26/15
 Reviewed
 by
 Analyst: _____
 Date: _____

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	5.41e+07	1.60	y	1.21	37:28	1.000	0.995-1.005	96.1716	PCB-133/142	5.16e+07	1.28	y	0.91	42:24	0.982	0.977-0.987	95.5562
PCB-113	2.88e+07	1.57	y	1.34	37:42	1.006	1.002-1.012	45.9831	PCB-131	2.57e+07	1.27	y	0.85	42:34	0.986	0.981-0.991	51.1483
PCB-99	2.92e+07	1.58	y	1.25	37:48	1.009	1.004-1.014	50.0477	PCB-146/165	6.45e+07	1.29	y	1.08	42:47	0.991	0.986-0.996	100.453
PCB-119	3.67e+07	1.58	y	1.88	38:17	0.988	0.982-0.992	46.7043	PCB-132/161	6.65e+07	1.34	y	1.12	43:02	0.997	0.992-1.002	100.175
PCB-108/112	5.56e+07	1.60	y	1.41	38:26	0.991	0.986-0.996	94.6382	PCB-153	3.30e+07	1.19	y	1.20	43:12	1.001	0.996-1.006	46.4687
PCB-83	3.36e+07	1.56	y	1.66	38:35	0.995	0.990-1.000	48.4272	PCB-168	3.98e+07	1.27	y	1.36	43:24	1.005	1.000-1.010	49.3786
PCB-97	2.56e+07	1.61	y	1.30	38:47	1.000	0.995-1.005	47.1760	PCB-141	2.88e+07	1.29	y	1.16	43:56	1.000	0.995-1.005	48.9616
PCB-86	2.09e+07	1.54	y	1.03	38:55	1.004	0.999-1.009	48.5480	PCB-137	3.06e+07	1.30	y	1.18	44:19	1.009	1.004-1.014	51.0458
B-87/117/125	9.43e+07	1.59	y	1.59	39:03	1.007	1.002-1.012	141.879	PCB-130	2.41e+07	1.28	y	0.92	44:25	1.011	1.006-1.016	51.4102
PCB-111/115	7.10e+07	1.59	y	1.86	39:12	1.011	1.006-1.016	91.5198	PCB-138/163/164	1.03e+08	1.29	y	1.38	44:47	1.001	0.996-1.006	145.037
PCB-85/116	5.58e+07	1.59	y	1.39	39:20	1.015	1.010-1.020	95.8622	PCB-158/160	7.52e+07	1.27	y	1.48	45:02	1.006	1.001-1.011	99.2467
PCB-120	3.79e+07	1.54	y	1.99	39:35	1.021	1.016-1.026	45.6633	PCB-129	2.47e+07	1.30	y	0.99	45:16	1.011	1.007-1.017	48.7046
PCB-110	3.31e+07	1.62	y	1.70	39:43	1.024	1.019-1.029	46.5023	PCB-166	3.74e+07	1.29	y	1.14	45:44	0.993	0.988-0.998	51.8222
PCB-82	2.11e+07	1.56	y	0.74	40:20	0.976	0.971-0.981	51.2460	PCB-159	3.95e+07	1.28	y	1.22	46:03	1.000	0.995-1.005	51.2508
PCB-124	3.62e+07	1.59	y	1.30	41:01	0.993	0.988-0.998	50.0581	PCB-128/162	6.54e+07	1.30	y	1.03	46:21	1.007	1.002-1.012	100.200
PCB-107/109	6.70e+07	1.59	y	1.34	41:10	0.996	0.991-1.001	90.5603	PCB-167	3.86e+07	1.28	y	1.18	46:44	1.000	0.995-1.005	50.1822
PCB-123	3.40e+07	1.59	y	1.25	41:21	1.001	0.995-1.005	49.0343	PCB-156	3.94e+07	1.28	y	1.27	48:01	1.000	0.995-1.005	49.6104
- PCB-106/118	7.07e+07	1.62	y	1.29	41:32	1.001	0.996-1.006	97.3451	PCB-157	3.94e+07	1.29	y	1.22	48:17	1.000	0.995-1.005	49.8654
- PCB-114	3.69e+07	1.57	y	1.45	42:11	1.001	0.995-1.005	43.1120	PCB-169	3.65e+07	1.29	y	1.07	50:25	1.000	0.995-1.005	49.6671
PCB-122	3.17e+07	1.61	y	1.22	42:19	1.004	0.999-1.009	44.0841	PCB-188	3.55e+07	1.09	y	1.52	42:49	1.000	0.996-1.006	49.8407
PCB-105	4.01e+07	1.61	y	1.56	43:03	1.001	0.995-1.005	41.5103	PCB-184	3.09e+07	1.06	y	1.34	43:17	1.011	1.006-1.016	49.4193
PCB-127	3.49e+07	1.60	y	1.31	43:23	1.001	0.995-1.005	42.0228	PCB-179	3.06e+07	1.09	y	1.39	44:03	1.029	1.024-1.034	47.0587
PCB-126	3.51e+07	1.62	y	1.41	45:16	1.000	0.995-1.005	42.3657	PCB-176	3.24e+07	1.08	y	1.45	44:31	1.040	1.035-1.045	47.5974
PCB-155	3.03e+07	1.28	y	1.20	37:02	1.001	0.966-1.006	49.3553	PCB-186	3.40e+07	1.07	y	1.46	45:08	1.054	1.049-1.059	49.9094
PCB-150	2.82e+07	1.28	y	1.13	38:18	1.035	1.030-1.040	48.8165	PCB-178	2.39e+07	1.06	y	1.07	45:37	1.066	1.061-1.071	47.5510
PCB-152	2.88e+07	1.26	y	1.17	38:46	1.048	1.043-1.053	48.1160	PCB-175	2.32e+07	1.08	y	1.05	45:57	1.073	1.069-1.079	47.3625
PCB-145	2.77e+07	1.26	y	1.09	39:13	1.060	1.055-1.065	49.4252	PCB-182/187	5.09e+07	1.07	y	1.14	46:08	1.078	1.073-1.083	95.8216
PCB-136	2.97e+07	1.42	y	1.14	39:32	1.068	1.063-1.073	50.7075	PCB-183	2.82e+07	1.05	y	1.22	46:26	1.085	1.080-1.090	49.2484
PCB-148	2.03e+07	1.10	y	0.82	39:38	1.071	1.066-1.076	48.4620	PCB-185	2.41e+07	1.05	y	1.40	47:07	0.956	0.950-0.960	50.0770
PCB-154	2.28e+07	1.29	y	0.89	40:08	1.084	1.079-1.089	49.9786	PCB-174	1.99e+07	1.06	y	1.29	47:28	0.963	0.958-0.968	45.2804
PCB-151	2.07e+07	1.29	y	0.82	40:46	1.102	1.097-1.107	49.4678	PCB-181	2.54e+07	1.05	y	1.35	47:35	0.965	0.960-0.970	55.1631
PCB-135	2.12e+07	1.28	y	0.80	40:59	1.107	1.101-1.113	51.8985	PCB-177	2.05e+07	1.05	y	1.27	47:45	0.969	0.963-0.973	47.4353
PCB-144	2.15e+07	1.30	y	0.86	41:06	1.110	1.105-1.116	48.9414	PCB-171	2.44e+07	1.07	y	1.46	48:02	0.974	0.969-0.979	49.0792
PCB-147	2.00e+07	1.31	y	0.78	41:13	1.114	1.108-1.120	50.0828	PCB-173	1.97e+07	1.07	y	1.10	48:28	0.983	0.978-0.988	52.0933
PCB-139/149	4.35e+07	1.26	y	0.87	41:29	1.121	1.115-1.127	97.6144	PCB-172	2.30e+07	1.04	y	1.35	48:54	0.992	0.987-0.997	49.5966
- PCB-140	2.01e+07	1.28	y	0.78	41:40	1.126	1.120-1.132	50.4541	PCB-192	2.99e+07	1.08	y	1.74	49:06	0.996	0.991-1.001	50.3205
- PCB-134/143	5.28e+07	1.29	y	0.93	42:06	0.975	0.970-0.980	95.4759	PCB-180	2.40e+07	1.09	y	1.45	49:19	1.001	0.995-1.005	48.4163

Integrations
by
Analyst: DMS
Date: 2/26/15

Client ID: PCB CS3 14L1801
Lab ID: ST150226E1-1

Filename: 150226E1 S:1 Acq:26-FEB-15 11:45:43
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.0000

ConCal: ST150226E1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	3.21e+07	1.07 y	1.85	49:31	1.005	0.999-1.009		50.6929
PCB-191	3.29e+07	1.07 y	1.86	49:45	1.009	1.005-1.015		51.7377
PCB-170	2.33e+07	1.06 y	1.67	50:47	1.000	0.995-1.005		50.1966
PCB-190	3.21e+07	1.07 y	2.25	50:57	1.004	0.999-1.009		51.3155
PCB-189	3.41e+07	1.06 y	1.67	52:15	1.000	0.995-1.005		49.9304
PCB-202	2.24e+07	0.91 y	1.02	48:15	1.000	0.995-1.005		48.9367
PCB-201	2.47e+07	0.89 y	1.10	48:44	1.010	1.005-1.015		50.1550
PCB-204	2.32e+07	0.91 y	1.07	48:53	1.014	1.009-1.019		48.1159
PCB-197	2.60e+07	0.91 y	1.17	49:11	1.020	1.015-1.025		49.6489
PCB-200	2.44e+07	0.91 y	1.03	50:03	1.038	1.034-1.044		52.4391
PCB-198	1.75e+07	0.92 y	0.75	51:21	1.065	1.062-1.072		51.6809
PCB-199	1.80e+07	0.91 y	0.74	51:28	1.067	1.064-1.074		54.0623
- PCB-196/203	3.88e+07	0.90 y	0.83	51:44	1.073	1.070-1.080		104.364
- PCB-195	2.02e+07	0.92 y	1.14	52:53	0.984	0.979-0.989		46.8343
PCB-194	2.15e+07	0.91 y	1.29	53:44	1.000	0.995-1.005		43.8830
PCB-205	2.80e+07	0.90 y	1.61	54:01	1.006	1.001-1.010		45.8898
PCB-208	2.69e+07	1.37 y	1.01	53:01	1.000	0.995-1.005		49.9582
PCB-207	2.69e+07	1.34 y	1.03	53:20	1.006	1.001-1.011		49.1928
PCB-206	1.83e+07	1.36 y	0.88	55:23	1.000	0.995-1.005		50.8992
PCB-209	2.47e+07	1.17 y	1.35	56:43	1.000	0.995-1.005		45.3100

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	2.16e+08	3.01 y	16:10	1.31	113.620
Total Di-PCB	6.87e+08	1.60 y	20:08	1.32	529.100
Total Tri-PCB	4.08e+08	1.08 y	24:14	1.20	388.901
Total Tri-PCB	8.34e+08	1.07 y	27:55	1.23	747.141
Total Tetra-PCB	1.83e+09	0.80 y	27:58	1.17	2123.44
Total Penta-PCB	1.21e+09	1.59 y	32:39	1.24	1967.79
Total Penta-PCB	1.86e+08	1.57 y	42:11	1.39	222.023
Total Hexa-PCB	3.35e+08	1.28 y	37:02	0.94	693.320
Total Hexa-PCB	9.27e+08	1.29 y	42:06	1.13	1402.31
Total Hepta-PCB	6.41e+08	1.09 y	42:50	1.37	1150.25
Total Octa-PCB	1.95e+08	0.91 y	48:15	0.95	459.403
Total Octa-PCB	7.18e+07	0.92 y	52:53	1.35	140.785
Total Nona-PCB	7.25e+07	1.37 y	53:01	0.99	150.898
Total Deca-PCB	2.47e+07	1.17 y	56:43	1.35	45.3100

Total PCB Conc:10105.3486160

Integrations
by

Analyst: Dms

Date: 2/26/15

Client ID: PCB CS3 14L1801
Lab ID: ST150226E1-1

Filename: 150226E1 S:1 Acq:26-FEB-15 11:45:43
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol:1.0000

ConCal: ST150226E1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.41e+08	3.25	y	0.91	16:09	0.623	0.619-0.625	143	143											
13C-PCB-3	1.47e+08	3.21	y	0.94	18:45	0.723	0.718-0.726	144	144	13C-PCB-79	8.82e+07	0.83	y	1.02	37:47	1.029	1.024-1.033	102	102	
13C-PCB-4	6.66e+07	1.58	y	0.60	20:05	0.774	0.770-0.778	103	103	13C-PCB-178	2.86e+07	0.47	y	0.64	45:35	0.984	0.980-0.989	96.4	96.4	
13C-PCB-9	1.02e+08	1.56	y	0.96	21:52	0.843	0.839-0.847	98.2	98.2											
13C-PCB-11	1.03e+08	1.55	y	0.95	25:13	0.973	0.968-0.978	99.3	99.3	PS vs. IS										
13C-PCB-19	6.92e+07	1.07	y	0.56	24:13	0.934	0.929-0.939	114	114											
13C-PCB-28	9.40e+07	1.07	y	1.07	29:04	1.004	0.999-1.009	103	103											
13C-PCB-32	9.63e+07	1.11	y	0.83	27:07	1.046	1.041-1.051	107	107	13C-PCB-79	8.82e+07	0.83	y	1.02	37:47	0.969	0.963-0.973	101	101	
13C-PCB-37	8.58e+07	1.09	y	0.96	32:56	1.137	1.131-1.143	104	104	13C-PCB-178	2.86e+07	0.47	y	0.84	45:35	0.925	0.920-0.930	99.4	99.4	
13C-PCB-47	6.39e+07	0.80	y	0.77	31:59	0.871	0.867-0.875	98.0	98.0											
13C-PCB-52	6.22e+07	0.81	y	0.71	31:29	0.857	0.853-0.861	103	103											
13C-PCB-54	9.13e+07	0.80	y	1.06	27:57	0.761	0.757-0.765	101	101											
13C-PCB-70	8.33e+07	0.83	y	0.99	35:29	0.966	0.961-0.971	98.8	98.8											
13C-PCB-77	8.27e+07	0.82	y	0.96	39:36	1.078	1.073-1.083	101	101											
13C-PCB-80	8.57e+07	0.83	y	1.02	35:54	0.978	0.973-0.983	98.8	98.8											
13C-PCB-81	8.52e+07	0.82	y	1.00	39:00	1.062	1.057-1.067	101	101											
13C-PCB-95	4.39e+07	1.67	y	0.70	35:47	0.913	0.908-0.918	102	102	RS										
13C-PCB-97	4.18e+07	1.63	y	0.66	38:46	0.989	0.984-0.994	103	103											
13C-PCB-101	4.67e+07	1.61	y	0.77	37:28	0.956	0.951-0.961	99.2	99.2											
13C-PCB-104	5.88e+07	1.61	y	0.97	32:38	0.833	0.828-0.836	99.2	99.2											
13C-PCB-105	6.20e+07	1.61	y	1.20	43:01	0.929	0.924-0.934	111	111											
13C-PCB-114	5.88e+07	1.63	y	1.26	42:10	0.910	0.905-0.915	100	100											
13C-PCB-118	5.63e+07	1.65	y	0.94	41:30	1.059	1.054-1.064	98.0	98.0											
13C-PCB-123	5.54e+07	1.63	y	0.88	41:19	1.054	1.049-1.059	103	103											
13C-PCB-126	5.86e+07	1.62	y	1.13	45:15	0.977	0.972-0.982	112	112											
13C-PCB-127	6.36e+07	1.60	y	1.26	43:21	0.936	0.931-0.941	108	108											
13C-PCB-138	5.14e+07	1.33	y	1.12	44:45	0.966	0.961-0.971	98.4	98.4											
13C-PCB-141	5.09e+07	1.34	y	1.09	43:55	0.948	0.943-0.953	99.9	99.9											
13C-PCB-153	5.94e+07	1.31	y	1.27	43:11	0.932	0.927-0.937	100	100											
13C-PCB-155	5.12e+07	1.26	y	0.87	37:00	0.944	0.939-0.949	96.0	96.0											
13C-PCB-156	6.26e+07	1.32	y	1.35	48:01	1.037	1.032-1.042	99.4	99.4											
13C-PCB-157	6.49e+07	1.33	y	1.42	48:17	1.043	1.037-1.047	98.3	98.3											
13C-PCB-159	6.31e+07	1.31	y	1.37	46:02	0.994	0.989-0.999	98.9	98.9											
13C-PCB-167	6.51e+07	1.29	y	1.38	46:43	1.009	1.004-1.014	101	101											
13C-PCB-169	6.83e+07	1.33	y	1.38	50:24	1.088	1.084-1.094	106	106											
13C-PCB-170	2.79e+07	0.46	y	0.60	50:46	1.096	1.091-1.103	99.1	99.1											
13C-PCB-180	3.42e+07	0.47	y	0.76	49:18	1.064	1.059-1.069	97.0	97.0											
13C-PCB-188	4.68e+07	0.46	y	1.01	42:49	0.924	0.919-0.929	98.9	98.9											
13C-PCB-189	4.09e+07	0.47	y	0.80	52:14	1.128	1.124-1.136	109	109											
13C-PCB-194	3.79e+07	0.92	y	0.75	53:43	0.995	0.990-1.000	101	101											
13C-PCB-202	4.49e+07	0.95	y	0.99	48:14	1.041	1.036-1.046	97.4	97.4											
13C-PCB-206	4.08e+07	0.79	y	0.73	55:22	1.025	1.020-1.301	111	111											
13C-PCB-208	5.31e+07	0.80	y	1.08	53:00	0.982	0.977-0.987	97.5	97.5											
13C-PCB-209	4.06e+07	1.20	y	0.71	56:42	1.050	1.045-1.055	114	114											

Analyst: DMS

Date: 2/26/15

Vista Analytical Laboratory - Injection Log Run file: 150226E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
150226E1	1	ST150226E1-1	dms	26-FEB-15	11:45:43	ST150226E1-1	NA
150226E1	2	B5B0085-BS1	dms	26-FEB-15	12:49:54	ST150226E1-1	NA
150226E1	3	SOLVENT BLANK	dms	26-FEB-15	13:54:06	ST150226E1-1	NA
150226E1	4	B5B0085-BLK1	dms	26-FEB-15	14:58:15	ST150226E1-1	NA
150226E1	5	1500183-03	dms	26-FEB-15	16:02:25	ST150226E1-1	NA
150226E1	6	1500166-01@10X	dms	26-FEB-15	17:06:33	ST150226E1-1	NA
150226E1	7	1500166-02@10X	dms	26-FEB-15	18:10:48	ST150226E1-1	NA
150226E1	8	1500166-03@10X	dms	26-FEB-15	19:14:57	ST150226E1-1	NA
150226E1	9	SOLVENT BLANK	dms	26-FEB-15	20:19:08	ST150226E1-1	NA
150226E1	10	1500183-01	dms	26-FEB-15	21:23:16	ST150226E1-1	NA
150226E1	11	1500183-02	dms	26-FEB-15	22:27:25	ST150226E1-1	NA
150226E1	12	SOLVENT BLANK	dms	26-FEB-15	23:31:35	ST150226E1-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST



Beg. Calibration ID: ST150226E1-1

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
Concentration within range?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/> DM 2/26/15	<input checked="" type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Correct ICAL referenced?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Run Log:		
-Data file matches Conc Cal ID?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Samples within 12-hour clock?	<input checked="" type="checkbox"/> y	<input checked="" type="checkbox"/> n

	<u>Beg.</u>	<u>End</u>
Mass resolution > <u>10,000?</u> ▪ Method 1614 > 5,000; CARB 429 > 8,000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF valleys < 25%?	<input checked="" type="checkbox"/> NA	<input checked="" type="checkbox"/> NA
Peaks integrated correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manual integrations included?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8280 CS1 Ending Standard		
-Ratios within limits		<input checked="" type="checkbox"/>
-S/N > 2.5:1		<input checked="" type="checkbox"/>
-CS1 within 12-hour clock		<input checked="" type="checkbox"/>

Comments:

Reviewed by: MI 2/27/15
Initials & Date

* Ending standard criteria applicable to 8290 only.

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150227E1-1 Instrument ID: VG-8

Initial Calibration Date: ICal ID: PCBVG8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150227E1 S#1 Analysis Date: 27-FEB-15 Time: 12:36:34

ANALYTES	ION	QC	PASS	CONC.	CONC.	ANALYTES	ION	QC	PASS	CONC.	CONC.
	ABUND.	LIMITS		FOUND			RANGE	ABUND.		LIMITS	
	RATIO			(ng/mL)			RATIO			(ng/mL)	
PCB-1	2.99	2.66-3.60	y	38.4	37.5-62.5	PCB-52/69	0.78	0.65-0.89	y	98.3	75.0-125
PCB-2	2.99	2.66-3.60	y	36.7	37.5-62.5 *	PCB-73	0.78	0.65-0.89	y	53.4	37.5-62.5
PCB-3	3.01	2.66-3.60	y	39.6	37.5-62.5	PCB-43/49	0.78	0.65-0.89	y	100.2	75.0-125
PCB-4/10	1.58	1.33-1.79	y	81.4	75-125	PCB-47	0.78	0.65-0.89	y	47.6	37.5-62.5
PCB-7/9	1.59	1.33-1.79	y	85.3	75-125	PCB-48/75	0.79	0.65-0.89	y	100.2	75.0-125
PCB-6	1.58	1.33-1.79	y	43.4	37.5-62.5	PCB-65	0.79	0.65-0.89	y	47.4	37.5-62.5
PCB-5/8	1.60	1.33-1.79	y	84.4	75-125	PCB-62	0.78	0.65-0.89	y	45.4	37.5-62.5
PCB-14	1.58	1.33-1.79	y	41.8	37.5-62.5	PCB-44	0.78	0.65-0.89	y	52.3	37.5-62.5
PCB-11	1.61	1.33-1.79	y	42.4	37.5-62.5	PCB-42/59	0.79	0.65-0.89	y	101.5	75.0-125
PCB-12/13	1.58	1.33-1.79	y	82.4	75-125	PCB-41/64/71/72	0.79	0.65-0.89	y	211.8	150-250
PCB-15	1.59	1.33-1.79	y	42.0	37.5-62.5	PCB-68	0.78	0.65-0.89	y	46.3	37.5-62.5
PCB-19	1.04	0.88-1.20	y	46.7	37.5-62.5	PCB-40	0.79	0.65-0.89	y	49.5	37.5-62.5
PCB-30	1.06	0.88-1.20	y	43.0	37.5-62.5	PCB-57	0.77	0.65-0.89	y	48.9	37.5-62.5
PCB-18	1.04	0.88-1.20	y	47.5	37.5-62.5	PCB-67	0.78	0.65-0.89	y	51.5	37.5-62.5
PCB-17	1.06	0.88-1.20	y	48.2	37.5-62.5	PCB-58	0.79	0.65-0.89	y	49.8	37.5-62.5
PCB-24/27	1.06	0.88-1.20	y	91.9	75.0-125	PCB-63	0.79	0.65-0.89	y	51.3	37.5-62.5
PCB-16/32	1.05	0.88-1.20	y	96.2	75.0-125	PCB-74	0.80	0.65-0.89	y	50.0	37.5-62.5
PCB-34	1.10	0.88-1.20	y	42.5	37.5-62.5	PCB-61/70	0.78	0.65-0.89	y	99.5	75.0-125
PCB-23	1.14	0.88-1.20	y	41.2	37.5-62.5	PCB-76/66	0.79	0.65-0.89	y	97.4	75.0-125
PCB-29	1.11	0.88-1.20	y	44.2	37.5-62.5	PCB-80	0.78	0.65-0.89	y	50.6	37.5-62.5
PCB-26	1.12	0.88-1.20	y	45.0	37.5-62.5	PCB-55	0.80	0.65-0.89	y	48.5	37.5-62.5
PCB-25	1.10	0.88-1.20	y	45.5	37.5-62.5	PCB-56/60	0.78	0.65-0.89	y	101.3	75.0-125
PCB-31	1.09	0.88-1.20	y	47.7	37.5-62.5	PCB-79	0.78	0.65-0.89	y	52.2	37.5-62.5
PCB-28	1.08	0.88-1.20	y	48.9	37.5-62.5	PCB-78	0.78	0.65-0.89	y	47.8	37.5-62.5
PCB-20/21/33	1.09	0.88-1.20	y	147.8	112.5-225	PCB-81	0.77	0.65-0.89	y	46.9	37.5-62.5
PCB-22	1.09	0.88-1.20	y	46.7	37.5-62.5	PCB-77	0.80	0.65-0.89	y	48.7	37.5-62.5
PCB-36	1.10	0.88-1.20	y	45.5	37.5-62.5	PCB-104	1.61	1.32-1.78	y	48.6	37.5-62.5
PCB-39	1.09	0.88-1.20	y	49.2	37.5-62.5	PCB-96	1.58	1.32-1.78	y	50.8	37.5-62.5
PCB-38	1.08	0.88-1.20	y	43.5	37.5-62.5	PCB-103	1.61	1.32-1.78	y	51.5	37.5-62.5
PCB-35	1.07	0.88-1.20	y	45.1	37.5-62.5	PCB-100	1.58	1.32-1.78	y	51.2	37.5-62.5
PCB-37	1.09	0.88-1.20	y	47.7	37.5-62.5	PCB-94	1.57	1.32-1.78	y	50.6	37.5-62.5
PCB-54	0.78	0.65-0.89	y	50.7	37.5-62.5	PCB-95/98/102	1.56	1.32-1.78	y	140.9	112.5-225
PCB-50	0.78	0.65-0.89	y	53.4	37.5-62.5	PCB-93	1.63	1.32-1.78	y	55.6	37.5-62.5
PCB-53	0.79	0.65-0.89	y	52.8	37.5-62.5	PCB-88/91	1.59	1.32-1.78	y	101.0	75.0-125
PCB-51	0.80	0.65-0.89	y	50.8	37.5-62.5	PCB-121	1.58	1.32-1.78	y	45.9	37.5-62.5
PCB-45	0.79	0.65-0.89	y	50.7	37.5-62.5						
PCB-46	0.79	0.65-0.89	y	51.9	37.5-62.5						

X = NOT USED.

Analyst: DMS

Date: 2/27/15

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150227E1-1 Instrument ID: VG-8

Initial Calibration Date: ICal ID: PCBVG8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150227E1 S#1 Analysis Date: 27-FEB-15 Time: 12:36:34

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	1.59	1.32-1.78	y	99.8	75.0-125	PCB-140	1.26	1.05-1.43	y	52.7	37.5-62.5
PCB-89	1.60	1.32-1.78	y	50.7	37.5-62.5	PCB-134/143	1.27	1.05-1.43	y	91.8	75.0-125
PCB-90/101	1.58	1.32-1.78	y	98.3	75.0-125	PCB-133/142	1.26	1.05-1.43	y	95.5	75.0-125
PCB-113	1.58	1.32-1.78	y	52.5	37.5-62.5	PCB-131	1.29	1.05-1.43	y	48.7	37.5-62.5
PCB-99	1.61	1.32-1.78	y	44.7	37.5-62.5	PCB-146/165	1.26	1.05-1.43	y	96.2	75.0-125
PCB-119	1.58	1.32-1.78	y	47.4	37.5-62.5	PCB-132/161	1.27	1.05-1.43	y	96.8	75.0-125
PCB-108/112	1.60	1.32-1.78	y	96.9	75.0-125	PCB-153	1.26	1.05-1.43	y	44.6	37.5-62.5
PCB-83	1.60	1.32-1.78	y	49.2	37.5-62.5	PCB-168	1.29	1.05-1.43	y	48.4	37.5-62.5
PCB-97	1.62	1.32-1.78	y	48.1	37.5-62.5	PCB-141	1.26	1.05-1.43	y	48.0	37.5-62.5
PCB-86	1.55	1.32-1.78	y	46.8	37.5-62.5	PCB-137	1.26	1.05-1.43	y	48.8	37.5-62.5
PCB-87/117/125	1.59	1.32-1.78	y	143.4	112.5-225	PCB-130	1.27	1.05-1.43	y	55.2	37.5-62.5
PCB-111/115	1.58	1.32-1.78	y	97.4	75.0-125	PCB-138/163/164	1.25	1.05-1.43	y	141.2	112.5-225
PCB-85/116	1.56	1.32-1.78	y	92.5	75.0-125	PCB-158/160	1.24	1.05-1.43	y	96.4	75.0-125
PCB-120	1.58	1.32-1.78	y	45.4	37.5-62.5	PCB-129	1.27	1.05-1.43	y	48.5	37.5-62.5
PCB-110	1.59	1.32-1.78	y	48.4	37.5-62.5	PCB-166	1.24	1.05-1.43	y	50.4	37.5-62.5
PCB-82	1.59	1.32-1.78	y	55.5	37.5-62.5	PCB-159	1.27	1.05-1.43	y	48.9	37.5-62.5
PCB-124	1.59	1.32-1.78	y	51.3	37.5-62.5	PCB-128/162	1.26	1.05-1.43	y	104.4	75.0-125
PCB-107/109	1.59	1.32-1.78	y	100.3	75.0-125	PCB-167	1.25	1.05-1.43	y	49.3	37.5-62.5
PCB-123	1.60	1.32-1.78	y	49.4	37.5-62.5	PCB-156	1.25	1.05-1.43	y	47.8	37.5-62.5
PCB-106/118	1.61	1.32-1.78	y	97.1	75.0-125	PCB-157	1.26	1.05-1.43	y	49.2	37.5-62.5
PCB-114	1.56	1.32-1.78	y	38.1	37.5-62.5	PCB-169	1.26	1.05-1.43	y	51.1	37.5-62.5
PCB-122	1.58	1.32-1.78	y	39.6	37.5-62.5	PCB-188	1.07	0.89-1.21	y	49.7	37.5-62.5
PCB-105	1.56	1.32-1.78	y	38.7	37.5-62.5	PCB-184	1.08	0.89-1.21	y	51.3	37.5-62.5
PCB-127	1.53	1.32-1.78	y	38.3	37.5-62.5	PCB-179	1.04	0.89-1.21	y	50.3	37.5-62.5
PCB-126	1.61	1.32-1.78	y	39.8	37.5-62.5	PCB-176	1.07	0.89-1.21	y	51.4	37.5-62.5
PCB-155	1.30	1.05-1.43	y	49.0	37.5-62.5	PCB-186	1.07	0.89-1.21	y	51.6	37.5-62.5
PCB-150	1.26	1.05-1.43	y	49.6	37.5-62.5	PCB-178	1.05	0.89-1.21	y	51.5	37.5-62.5
PCB-152	1.26	1.05-1.43	y	47.9	37.5-62.5	PCB-175	1.05	0.89-1.21	y	53.2	37.5-62.5
PCB-145	1.28	1.05-1.43	y	49.6	37.5-62.5	PCB-182/187	1.06	0.89-1.21	y	102.9	75.0-125
PCB-136	1.27	1.05-1.43	y	51.7	37.5-62.5	PCB-183	1.08	0.89-1.21	y	55.4	37.5-62.5
PCB-148	1.29	1.05-1.43	y	47.4	37.5-62.5	PCB-185	1.06	0.89-1.21	y	50.2	37.5-62.5
PCB-154	1.26	1.05-1.43	y	52.7	37.5-62.5	PCB-174	1.02	0.89-1.21	y	49.2	37.5-62.5
PCB-151	1.29	1.05-1.43	y	52.8	37.5-62.5	PCB-181	1.08	0.89-1.21	y	50.6	37.5-62.5
PCB-135	1.26	1.05-1.43	y	52.0	37.5-62.5	PCB-177	1.05	0.89-1.21	y	47.8	37.5-62.5
PCB-144	1.26	1.05-1.43	y	54.6	37.5-62.5	PCB-171	1.06	0.89-1.21	y	48.1	37.5-62.5
PCB-147	1.27	1.05-1.43	y	49.3	37.5-62.5	PCB-173	1.05	0.89-1.21	y	51.9	37.5-62.5
PCB-139/149	1.27	1.05-1.43	y	101.8	75.0-125	PCB-172	1.06	0.89-1.21	y	49.0	37.5-62.5

Analyst: *DMS*

Date: *2/27/15*

NATIVE 1668C CONTINUING CALIBRATION VERIFICATION

Page 1 of

Lab Name: Vista Analytical Laboratory Lab ID: ST150227E1-1 Instrument ID: VG-8

Initial Calibration Date: ICal ID: PCBVG8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150227E1 S#1 Analysis Date: 27-FEB-15 Time: 12:36:34

ANALYTES	ION	QC	PASS	CONC.	CONC.
	ABUND.	LIMITS		FOUND	RANGE
	RATIO				(ng/mL)
PCB-192	1.07	0.89-1.21	y	48.8	37.5-62.5
PCB-180	1.07	0.89-1.21	y	47.7	37.5-62.5
PCB-193	1.08	0.89-1.21	y	48.9	37.5-62.5
PCB-191	1.07	0.89-1.21	y	49.2	37.5-62.5
PCB-170	1.07	0.89-1.21	y	49.7	37.5-62.5
PCB-190	1.06	0.89-1.21	y	50.6	37.5-62.5
PCB-189	1.06	0.89-1.21	y	49.5	37.5-62.5
PCB-202	0.90	0.76-1.02	y	49.9	37.5-62.5
PCB-201	0.91	0.76-1.02	y	50.4	37.5-62.5
PCB-204	0.90	0.76-1.02	y	49.8	37.5-62.5
PCB-197	0.90	0.76-1.02	y	51.0	37.5-62.5
PCB-200	0.92	0.76-1.02	y	52.1	37.5-62.5
PCB-198	0.87	0.76-1.02	y	56.1	37.5-62.5
PCB-199	0.93	0.76-1.02	y	53.0	37.5-62.5
PCB-196/203	0.91	0.76-1.02	y	107.0	75.0-125
PCB-195	0.91	0.76-1.02	y	45.5	37.5-62.5
PCB-194	0.90	0.76-1.02	y	42.9	37.5-62.5
PCB-205	0.91	0.76-1.02	y	45.4	37.5-62.5
PCB-208	1.34	1.14-1.54	y	50.4	37.5-62.5
PCB-207	1.33	1.14-1.54	y	51.8	37.5-62.5
PCB-206	1.28	1.14-1.54	y	51.8	37.5-62.5
PCB-209	1.18	0.99-1.33	y	47.4	37.5-62.5

Analyst: DMSDate: 2/27/15

LABELED 1668C CONTINUING CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Lab ID: ST150227E1-1 Instrument ID: VG-8

Initial Calibration Date: ICal ID: PCBVG8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150227E1 S#1 Analysis Date: 27-FEB-15 Time: 12:36:34

LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	CONC. RANGE (ng/mL)	LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-1	3.16	2.66-3.60	y	130.9	50.0-145	13C-PCB-169	1.30	1.05-1.43	y	100.9	50 - 145
13C-PCB-3	3.15	2.66-3.60	y	130.5	50.0-145	13C-PCB-188	0.46	0.38-0.52	y	88.4	50 - 145
13C-PCB-4	1.57	1.33-1.79	y	108.6	50.0-145	13C-PCB-180	0.46	0.38-0.52	y	96.7	50 - 145
13C-PCB-9	1.56	1.33-1.79	y	100.8	50.0-145	13C-PCB-170	0.46	0.38-0.52	y	96.8	50 - 145
13C-PCB-11	1.52	1.33-1.79	y	99.4	50.0-145	13C-PCB-189	0.46	0.38-0.52	y	98.7	50 - 145
13C-PCB-19	1.05	0.88-1.20	y	124.9	50.0-145	13C-PCB-202	0.93	0.76-1.02	y	88.5	50 - 145
13C-PCB-32	1.08	0.88-1.20	y	112.7	50.0-145	13C-PCB-194	0.93	0.76-1.02	y	98.1	50 - 145
13C-PCB-28	1.08	0.88-1.20	y	99.1	50.0-145	13C-PCB-208	0.76	0.65-0.89	y	92.4	50 - 145
13C-PCB-37	1.07	0.88-1.20	y	104.1	50.0-145	13C-PCB-206	0.78	0.65-0.89	y	106.2	50 - 145
13C-PCB-54	0.80	0.65-0.89	y	103.1	50.0-145	13C-PCB-209	1.22	0.99-1.33	y	108.7	50 - 145
13C-PCB-52	0.80	0.65-0.89	y	108.2	50.0-145						
13C-PCB-47	0.79	0.65-0.89	y	106.5	50.0-145						
13C-PCB-70	0.80	0.65-0.89	y	101.3	50.0-145						
13C-PCB-80	0.79	0.65-0.89	y	99.9	50.0-145						
13C-PCB-81	0.80	0.65-0.89	y	103.6	50.0-145						
13C-PCB-77	0.82	0.65-0.89	y	104.9	50.0-145						
13C-PCB-104	1.60	1.32-1.78	y	98.1	50.0-145						
13C-PCB-95	1.63	1.32-1.78	y	102.3	50.0-145						
13C-PCB-101	1.66	1.32-1.78	y	99.4	50.0-145	CRS vs. RS					
13C-PCB-97	1.60	1.32-1.78	y	102.3	50.0-145						
13C-PCB-123	1.67	1.32-1.78	y	100.8	50.0-145	13C-PCB-79	0.79	0.65-0.89	y	103.0	75 - 125
13C-PCB-118	1.64	1.32-1.78	y	104.0	50.0-145	13C-PCB-178	0.47	0.38-0.52	y	92.5	75 - 125
13C-PCB-114	1.59	1.32-1.78	y	95.7	50.0-145						
13C-PCB-105	1.59	1.32-1.78	y	100.3	50.0-145						
13C-PCB-127	1.60	1.32-1.78	y	100.1	50.0-145						
13C-PCB-126	1.59	1.32-1.78	y	105.8	50.0-145						
13C-PCB-155	1.24	1.05-1.43	y	97.7	50.0-145						
13C-PCB-153	1.27	1.05-1.43	y	94.6	50.0-145						
13C-PCB-141	1.26	1.05-1.43	y	94.5	50.0-145						
13C-PCB-138	1.27	1.05-1.43	y	95.9	50.0-145						
13C-PCB-159	1.28	1.05-1.43	y	95.5	50.0-145						
13C-PCB-167	1.31	1.05-1.43	y	99.6	50.0-145						
13C-PCB-156	1.28	1.05-1.43	y	99.1	50.0-145						
13C-PCB-157	1.31	1.05-1.43	y	97.8	50.0-145						

Analyst: DMS
Date: 2/27/15

Client ID: PCB CS3 14L1801
Lab ID: ST150227E1-1

Filename: 150227E1 S:1 Acq:27-FEB-15 12:36:34 ConCal: ST150227E1-1
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	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-1	7.07e+07	2.99 y	1.33	16:08	1.000	0.997-1.007		38.3782	PCB-52/69	9.51e+07	0.78 y	1.29	31:30	1.001	0.996-1.006		98.3330
PCB-2	6.78e+07	2.99 y	1.30	18:31	0.988	0.983-0.993		36.6971	PCB-73	5.65e+07	0.78 y	1.41	31:37	1.005	0.999-1.009		53.4267
PCB-3	7.34e+07	3.01 y	1.30	18:45	1.001	0.996-1.006		39.6378	PCB-43/49	8.55e+07	0.78 y	1.14	31:47	1.010	1.005-1.015		100.210
PCB-4/10	1.02e+08	1.58 y	1.67	20:06	1.002	0.997-1.007		81.4070	PCB-47	4.53e+07	0.78 y	1.20	31:59	1.001	0.996-1.006		47.5556
PCB-7/9	1.20e+08	1.59 y	1.25	21:53	0.868	0.864-0.872		85.3312	PCB-48/75	1.06e+08	0.79 y	1.33	32:06	1.004	0.999-1.009		100.199
PCB-6	6.03e+07	1.58 y	1.24	22:32	0.894	0.888-0.897		43.4278	PCB-65	4.96e+07	0.79 y	1.32	32:22	1.013	1.007-1.017		47.3680
PCB-5/8	1.20e+08	1.60 y	1.27	22:57	0.910	0.905-0.915		84.4031	PCB-62	4.90e+07	0.78 y	1.36	32:29	1.016	1.011-1.021		45.3652
PCB-14	6.76e+07	1.58 y	1.47	24:02	0.953	0.948-0.958		41.8152	PCB-44	3.62e+07	0.78 y	0.87	32:47	1.025	1.020-1.030		52.3324
PCB-11	5.99e+07	1.61 y	1.28	25:13	1.000	0.995-1.005		42.4495	PCB-42/59	9.98e+07	0.79 y	1.24	33:01	1.032	1.027-1.037		101.501
PCB-12/13	1.15e+08	1.58 y	1.27	25:37	1.016	1.011-1.021		82.4357	PCB-41/64/71/72	2.25e+08	0.79 y	1.34	33:35	1.051	1.045-1.055		211.777
PCB-15	6.65e+07	1.59 y	1.44	25:56	1.029	1.023-1.031		41.9532	PCB-68	5.93e+07	0.78 y	1.61	33:51	1.059	1.053-1.063		46.3409
PCB-19	4.50e+07	1.04 y	1.18	24:13	1.001	0.996-1.006		46.7465	PCB-40	3.37e+07	0.79 y	0.86	34:04	1.066	1.061-1.071		49.4545
PCB-30	6.56e+07	1.06 y	1.87	25:06	1.038	1.033-1.043		43.0339	PCB-57	5.36e+07	0.77 y	1.12	34:25	0.970	0.965-0.975		48.9327
PCB-18	4.54e+07	1.04 y	0.89	25:51	0.954	0.949-0.959		47.5267	PCB-67	5.50e+07	0.78 y	1.09	34:44	0.979	0.974-0.984		51.5115
PCB-17	4.98e+07	1.06 y	0.96	26:01	0.960	0.956-0.966		48.2286	PCB-58	5.54e+07	0.79 y	1.14	34:51	0.982	0.977-0.987		49.8279
PCB-24/27	1.29e+08	1.06 y	1.30	26:36	0.981	0.977-0.987		91.9085	PCB-63	5.84e+07	0.79 y	1.16	35:00	0.987	0.981-0.991		51.2767
PCB-16/32	1.09e+08	1.05 y	1.05	27:06	1.000	0.996-1.006		96.1796	PCB-74	5.94e+07	0.80 y	1.21	35:17	0.995	0.989-0.999		50.0269
PCB-34	5.47e+07	1.10 y	1.30	27:54	0.960	0.955-0.965		42.5001	PCB-61/70	1.10e+08	0.78 y	1.13	35:28	0.999	0.995-1.005		99.4582
PCB-23	4.94e+07	1.14 y	1.21	28:00	0.964	0.958-0.968		41.2037	PCB-76/66	1.12e+08	0.79 y	1.18	35:41	1.006	1.000-1.010		97.4288
PCB-29	5.29e+07	1.11 y	1.21	28:15	0.972	0.967-0.977		44.1893	PCB-80	6.64e+07	0.78 y	1.32	35:55	1.001	0.995-1.005		50.5608
PCB-26	5.52e+07	1.12 y	1.24	28:27	0.979	0.974-0.984		45.0308	PCB-55	5.92e+07	0.80 y	1.23	36:14	1.009	1.004-1.014		48.4523
PCB-25	4.94e+07	1.10 y	1.10	28:36	0.984	0.980-0.990		45.4817	PCB-56/60	1.11e+08	0.78 y	1.11	36:44	1.023	1.018-1.028		101.278
PCB-31	5.91e+07	1.09 y	1.25	28:58	0.997	0.992-1.002		47.6536	PCB-79	6.00e+07	0.78 y	1.16	37:47	1.053	1.048-1.058		52.1519
PCB-28	6.00e+07	1.08 y	1.24	29:05	1.001	0.996-1.006		48.9402	PCB-78	5.66e+07	0.78 y	1.18	38:30	0.987	0.982-0.992		47.7696
PCB-20/21/33	1.69e+08	1.09 y	1.16	29:41	1.022	1.016-1.026		147.809	PCB-81	6.08e+07	0.77 y	1.29	39:01	1.000	0.995-1.005		46.8824
PCB-22	5.38e+07	1.09 y	1.16	30:07	1.036	1.032-1.042		46.6690	PCB-77	6.18e+07	0.80 y	1.29	39:37	1.000	0.995-1.005		48.6629
PCB-36	5.55e+07	1.10 y	1.30	30:45	0.934	0.929-0.939		45.4936	PCB-104	4.08e+07	1.61 y	1.26	32:38	1.000	0.996-1.006		48.6179
PCB-39	5.82e+07	1.09 y	1.26	31:12	0.948	0.943-0.953		49.2166	PCB-96	3.68e+07	1.58 y	1.09	33:53	1.039	1.034-1.044		50.8022
PCB-38	5.07e+07	1.08 y	1.24	31:59	0.971	0.967-0.977		43.5095	PCB-103	3.31e+07	1.61 y	0.97	34:26	1.056	1.051-1.061		51.4896
PCB-35	5.31e+07	1.07 y	1.26	32:30	0.987	0.982-0.992		45.0641	PCB-100	3.27e+07	1.58 y	0.96	34:47	1.066	1.061-1.071		51.1928
PCB-37	6.03e+07	1.09 y	1.35	32:57	1.001	0.996-1.006		47.6670	PCB-94	2.86e+07	1.57 y	1.13	35:15	0.985	0.980-0.990		50.6181
PCB-54	5.51e+07	0.78 y	1.02	27:58	1.001	0.996-1.006		50.6529	PCB-95/98/102	9.08e+07	1.56 y	1.29	35:45	0.999	0.994-1.004		140.861
PCB-50	4.41e+07	0.78 y	0.78	29:07	1.042	1.037-1.047		53.4072	PCB-93	2.95e+07	1.63 y	1.06	35:53	1.003	0.998-1.008		55.6355
PCB-53	4.50e+07	0.79 y	1.14	29:46	0.946	0.941-0.951		52.8106	PCB-88/91	5.68e+07	1.59 y	1.12	36:10	1.011	1.006-1.016		100.954
PCB-51	4.42e+07	0.80 y	1.16	30:06	0.957	0.952-0.962		50.7642	PCB-121	4.04e+07	1.58 y	1.76	36:17	1.014	1.009-1.019		45.8637
PCB-45	3.95e+07	0.79 y	1.04	30:32	0.971	0.965-0.975		50.7065	PCB-84/92	5.70e+07	1.59 y	1.07	37:05	0.990	0.985-0.995		99.8092
PCB-46	3.69e+07	0.79 y	0.95	31:02	0.986	0.981-0.991		51.8733	PCB-89	2.69e+07	1.60 y	1.00	37:17	0.995	0.990-1.000		50.7139

Integrations by DMJ Reviewed by DMJ
Analyst: DMJ Analyst: DMJ
Date: 2/27/15 Date: 2/28/15

Client ID: PCB CS3 14L1801
Lab ID: ST150227E1-1

Filename: 150227E1 S:1 Acq:27-FEB-15 12:36:34
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.0000 EndCAL: NA

ConCal: ST150227E1-1

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-90/101	6.32e+07	1.58	y	1.21	37:28	1.000	0.995-1.005	98.3282	PCB-133/142	6.57e+07	1.26	y	0.91	42:24	0.982	0.977-0.987	95.5331
PCB-113	3.75e+07	1.58	y	1.34	37:43	1.007	1.002-1.012	52.5054	PCB-131	3.12e+07	1.29	y	0.85	42:33	0.986	0.981-0.991	48.7468
PCB-99	2.97e+07	1.61	y	1.25	37:49	1.009	1.004-1.014	44.7020	PCB-146/165	7.88e+07	1.26	y	1.08	42:46	0.991	0.986-0.996	96.2238
PCB-119	4.19e+07	1.58	y	1.88	38:16	0.987	0.982-0.992	47.3656	PCB-132/161	8.19e+07	1.27	y	1.12	43:01	0.996	0.992-1.002	96.7755
PCB-108/112	6.42e+07	1.60	y	1.41	38:25	0.991	0.986-0.996	96.8549	PCB-153	4.04e+07	1.26	y	1.20	43:11	1.000	0.996-1.006	44.6004
PCB-83	3.85e+07	1.60	y	1.66	38:35	0.996	0.990-1.000	49.1803	PCB-168	4.97e+07	1.29	y	1.36	43:24	1.005	1.000-1.010	48.3988
PCB-97	2.94e+07	1.62	y	1.30	38:47	1.001	0.995-1.005	48.1324	PCB-141	3.61e+07	1.26	y	1.16	43:55	1.000	0.995-1.005	48.0310
PCB-86	2.28e+07	1.55	y	1.03	38:56	1.005	0.999-1.009	46.8483	PCB-137	3.73e+07	1.26	y	1.18	44:19	1.009	1.004-1.014	48.8188
B-87/117/125	1.08e+08	1.59	y	1.59	39:03	1.008	1.002-1.012	143.407	PCB-130	3.30e+07	1.27	y	0.92	44:24	1.011	1.006-1.016	55.1655
PCB-111/115	8.52e+07	1.58	y	1.86	39:13	1.012	1.006-1.016	97.3863	PCB-138/163/164	1.31e+08	1.25	y	1.38	44:47	1.001	0.996-1.006	141.240
PCB-85/116	6.07e+07	1.56	y	1.39	39:20	1.015	1.010-1.020	92.4699	PCB-158/160	9.60e+07	1.24	y	1.48	45:02	1.006	1.001-1.011	96.3663
PCB-120	4.25e+07	1.58	y	1.99	39:34	1.021	1.016-1.026	45.4030	PCB-129	3.24e+07	1.27	y	0.99	45:16	1.012	1.007-1.017	48.4933
PCB-110	3.88e+07	1.59	y	1.70	39:42	1.024	1.019-1.029	48.3680	PCB-166	4.73e+07	1.24	y	1.14	45:43	0.993	0.988-0.998	50.3782
PCB-82	2.56e+07	1.59	y	0.74	40:21	0.977	0.971-0.981	55.4560	PCB-159	4.91e+07	1.27	y	1.22	46:03	1.000	0.995-1.005	48.8702
PCB-124	4.16e+07	1.59	y	1.30	41:01	0.993	0.988-0.998	51.2980	PCB-128/162	8.89e+07	1.26	y	1.03	46:20	1.006	1.002-1.012	104.433
PCB-107/109	8.32e+07	1.59	y	1.34	41:10	0.996	0.991-1.001	100.296	PCB-167	5.05e+07	1.25	y	1.18	46:44	1.000	0.995-1.005	49.3353
PCB-123	3.84e+07	1.60	y	1.25	41:20	1.000	0.995-1.005	49.3949	PCB-156	5.11e+07	1.25	y	1.27	48:02	1.001	0.995-1.005	47.8100
- PCB-106/118	8.54e+07	1.61	y	1.29	41:33	1.001	0.996-1.006	97.0519	PCB-157	5.23e+07	1.26	y	1.22	48:18	1.000	0.995-1.005	49.2143
- PCB-114	4.18e+07	1.56	y	1.45	42:10	1.000	0.995-1.005	38.0514	PCB-169	4.82e+07	1.26	y	1.07	50:25	1.000	0.995-1.005	51.1182
PCB-122	3.65e+07	1.58	y	1.22	42:18	1.003	0.999-1.009	39.5553									
PCB-105	4.57e+07	1.56	y	1.56	43:02	1.000	0.995-1.005	38.6899	PCB-188	4.26e+07	1.07	y	1.52	42:49	1.000	0.996-1.006	49.6725
PCB-127	3.96e+07	1.53	y	1.31	43:22	1.000	0.995-1.005	38.3170	PCB-184	3.87e+07	1.08	y	1.34	43:16	1.011	1.006-1.016	51.3402
PCB-126	4.22e+07	1.61	y	1.41	45:16	1.000	0.995-1.005	39.8026	PCB-179	3.95e+07	1.04	y	1.39	44:03	1.029	1.024-1.034	50.3424
									PCB-176	4.22e+07	1.07	y	1.45	44:31	1.040	1.035-1.045	51.4278
PCB-155	3.49e+07	1.30	y	1.20	37:02	1.001	0.966-1.006	49.0293	PCB-186	4.24e+07	1.07	y	1.46	45:08	1.054	1.049-1.059	51.5969
PCB-150	3.33e+07	1.26	y	1.13	38:17	1.035	1.030-1.040	49.5952	PCB-178	3.12e+07	1.05	y	1.07	45:37	1.066	1.061-1.071	51.5027
PCB-152	3.33e+07	1.26	y	1.17	38:45	1.048	1.043-1.053	47.9319	PCB-175	3.14e+07	1.05	y	1.05	45:58	1.074	1.069-1.079	53.2271
PCB-145	3.22e+07	1.28	y	1.09	39:13	1.060	1.055-1.065	49.5756	PCB-182/187	6.59e+07	1.06	y	1.14	46:08	1.078	1.073-1.083	102.857
PCB-136	3.51e+07	1.27	y	1.14	39:32	1.069	1.063-1.073	51.6728	PCB-183	3.82e+07	1.08	y	1.22	46:27	1.085	1.080-1.090	55.4078
PCB-148	2.30e+07	1.29	y	0.82	39:38	1.071	1.066-1.076	47.3683	PCB-185	3.25e+07	1.06	y	1.40	47:06	0.956	0.950-0.960	50.2462
PCB-154	2.79e+07	1.26	y	0.89	40:07	1.084	1.079-1.089	52.6893	PCB-174	2.91e+07	1.02	y	1.29	47:28	0.963	0.958-0.968	49.1782
PCB-151	2.57e+07	1.29	y	0.82	40:46	1.102	1.097-1.107	52.8488	PCB-181	3.14e+07	1.08	y	1.35	47:35	0.965	0.960-0.970	50.5554
PCB-135	2.47e+07	1.26	y	0.80	40:58	1.108	1.101-1.113	52.0242	PCB-177	2.78e+07	1.05	y	1.27	47:44	0.968	0.963-0.973	47.8125
PCB-144	2.78e+07	1.26	y	0.86	41:05	1.111	1.105-1.116	54.5743	PCB-171	3.22e+07	1.06	y	1.46	48:02	0.975	0.969-0.979	48.1405
PCB-147	2.28e+07	1.27	y	0.78	41:13	1.114	1.108-1.120	49.2968	PCB-173	2.64e+07	1.05	y	1.10	48:28	0.983	0.978-0.988	51.9492
PCB-139/149	5.27e+07	1.27	y	0.87	41:29	1.121	1.115-1.127	101.823	PCB-172	3.05e+07	1.06	y	1.35	48:55	0.992	0.987-0.997	48.9645
- PCB-140	2.44e+07	1.26	y	0.78	41:40	1.126	1.120-1.132	52.7154	PCB-192	3.90e+07	1.07	y	1.74	49:06	0.996	0.991-1.001	48.7522
- PCB-134/143	6.47e+07	1.27	y	0.93	42:06	0.975	0.970-0.980	91.7785	PCB-180	3.18e+07	1.07	y	1.45	49:19	1.000	0.995-1.005	47.6875

Integrations
by *DMS*
Analyst: _____
Date: 2/27/15

Client ID: PCB CS3 14L1801
Lab ID: ST150227E1-1

Filename: 150227E1 S:1 Acq:27-FEB-15 12:36:34
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol: 1.0000

ConCal: ST150227E1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc
PCB-193	4.16e+07	1.08 y	1.85	49:31	1.004	0.999-1.009		48.9299
PCB-191	4.21e+07	1.07 y	1.86	49:46	1.009	1.005-1.015		49.1586
PCB-170	3.04e+07	1.07 y	1.67	50:47	1.000	0.995-1.005		49.6673
PCB-190	4.17e+07	1.06 y	2.25	50:56	1.003	0.999-1.009		50.5998
PCB-189	4.11e+07	1.06 y	1.67	52:15	1.000	0.995-1.005		49.4694
PCB-202	2.80e+07	0.90 y	1.02	48:14	1.000	0.995-1.005		49.8512
PCB-201	3.04e+07	0.91 y	1.10	48:43	1.010	1.005-1.015		50.3658
PCB-204	2.94e+07	0.90 y	1.07	48:53	1.014	1.009-1.019		49.8206
PCB-197	3.28e+07	0.90 y	1.17	49:11	1.020	1.015-1.025		51.0373
PCB-200	2.97e+07	0.92 y	1.03	50:03	1.038	1.034-1.044		52.1007
PCB-198	2.33e+07	0.87 y	0.75	51:22	1.065	1.062-1.072		56.0685
PCB-199	2.16e+07	0.93 y	0.74	51:28	1.067	1.064-1.074		53.0015
- PCB-196/203	4.88e+07	0.91 y	0.83	51:44	1.073	1.070-1.080		106.991
- PCB-195	2.75e+07	0.91 y	1.14	52:53	0.984	0.979-0.989		45.5268
PCB-194	2.94e+07	0.90 y	1.29	53:45	1.000	0.995-1.005		42.8943
PCB-205	3.88e+07	0.91 y	1.61	54:01	1.005	1.001-1.010		45.4006
PCB-208	3.72e+07	1.34 y	1.01	53:01	1.000	0.995-1.005		50.3956
PCB-207	3.87e+07	1.33 y	1.03	53:20	1.006	1.001-1.011		51.8338
PCB-206	2.58e+07	1.28 y	0.88	55:23	1.000	0.995-1.005		51.7675
PCB-209	3.57e+07	1.18 y	1.35	56:43	1.000	0.995-1.005		47.3549

Name	Resp	RA	RT	RRF	Conc
Total Mono-PCB	2.12e+08	2.99 y	16:08	1.31	114.713
Total Di-PCB	7.15e+08	1.58 y	20:06	1.32	505.129
Total Tri-PCB	4.43e+08	1.04 y	24:13	1.20	373.624
Total Tri-PCB	8.84e+08	1.10 y	27:54	1.23	742.718
Total Tetra-PCB	2.19e+09	0.78 y	27:58	1.17	2116.66
Total Penta-PCB	1.41e+09	1.61 y	32:38	1.24	2014.93
Total Penta-PCB	2.12e+08	1.56 y	42:10	1.39	200.249
Total Hexa-PCB	3.98e+08	1.30 y	37:02	0.94	711.145
Total Hexa-PCB	1.18e+09	1.27 y	42:06	1.13	1372.51
Total Hepta-PCB	8.55e+08	1.07 y	42:49	1.37	1216.50
Total Octa-PCB	2.44e+08	0.90 y	48:14	0.95	469.237
Total Octa-PCB	9.78e+07	0.91 y	52:53	1.35	136.624
Total Nona-PCB	1.02e+08	1.34 y	53:01	0.99	154.415
Total Deca-PCB	3.57e+07	1.18 y	56:43	1.35	47.3549

Total PCB Conc:10131.0779120

Integrations

by

Analyst: *DMS*

Date: *2/27/15*

Client ID: PCB CS3 14L1801
Lab ID: ST150227E1-1

Filename: 150227E1 S:1 Acq:27-FEB-15 12:36:34
GC Column ID: ZB-1 ICal: PCBVG8-1-14-15 wt/vol:1.0000

ConCal: ST150227E1-1
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec
13C-PCB-1	1.38e+08	3.16 y	0.91	16:08	0.623	0.619-0.625		131	131											
13C-PCB-3	1.43e+08	3.15 y	0.94	18:44	0.723	0.718-0.726		131	131		13C-PCB-79	1.02e+08	0.79 y	1.02	37:46	1.029	1.024-1.033		103	103
13C-PCB-4	7.52e+07	1.57 y	0.60	20:03	0.724	0.770-0.778		109	109		13C-PCB-178	3.71e+07	0.47 y	0.64	45:36	0.984	0.980-0.989		92.5	92.5
13C-PCB-9	1.12e+08	1.56 y	0.96	21:50	0.843	0.839-0.847		101	101											
13C-PCB-11	1.10e+08	1.52 y	0.95	25:13	0.973	0.968-0.978		99.4	99.4											
13C-PCB-19	8.13e+07	1.05 y	0.56	24:12	0.934	0.929-0.939		125	125											
13C-PCB-28	9.92e+07	1.08 y	1.07	29:03	1.004	0.999-1.009		99.1	99.1		13C-PCB-79	1.02e+08	0.79 y	1.02	37:46	0.968	0.963-0.973		99.4	99.4
13C-PCB-32	1.08e+08	1.08 y	0.83	27:06	1.046	1.041-1.051		113	113		13C-PCB-178	3.71e+07	0.47 y	0.84	45:36	0.925	0.920-0.930		95.6	95.6
13C-PCB-37	9.37e+07	1.07 y	0.96	32:55	1.137	1.131-1.143		104	104											
13C-PCB-47	7.96e+07	0.79 y	0.77	31:58	0.871	0.867-0.875		106	106											
13C-PCB-52	7.49e+07	0.80 y	0.71	31:28	0.857	0.853-0.861		108	108											
13C-PCB-54	1.06e+08	0.80 y	1.06	27:56	0.761	0.757-0.765		103	103											
13C-PCB-70	9.79e+07	0.80 y	0.99	35:29	0.966	0.961-0.971		101	101											
13C-PCB-77	9.84e+07	0.82 y	0.96	39:35	1.078	1.073-1.083		105	105											
13C-PCB-80	9.93e+07	0.79 y	1.02	35:54	0.978	0.973-0.983		99.9	99.9											
13C-PCB-81	1.01e+08	0.80 y	1.00	39:00	1.062	1.057-1.067		104	104											
13C-PCB-95	5.00e+07	1.63 y	0.70	35:47	0.913	0.908-0.918		102	102											
13C-PCB-97	4.71e+07	1.60 y	0.66	38:45	0.989	0.984-0.994		102	102											
13C-PCB-101	5.33e+07	1.66 y	0.77	37:28	0.956	0.951-0.961		99.4	99.4											
13C-PCB-104	6.63e+07	1.60 y	0.97	32:37	0.832	0.828-0.836		98.1	98.1		13C-PCB-15	1.16e+08	1.56 y	1.00	25:55			100		
13C-PCB-105	7.58e+07	1.59 y	1.20	43:01	0.929	0.924-0.934		100	100		13C-PCB-31	9.36e+07	1.06 y	1.00	28:57			100		
13C-PCB-114	7.56e+07	1.59 y	1.26	42:10	0.910	0.905-0.915		95.7	95.7		13C-PCB-60	9.73e+07	0.80 y	1.00	36:43			100		
13C-PCB-118	6.81e+07	1.64 y	0.94	41:30	1.059	1.054-1.064		104	104		13C-PCB-111	7.00e+07	1.63 y	1.00	39:12			100		
13C-PCB-123	6.21e+07	1.67 y	0.88	41:19	1.054	1.049-1.059		101	101		13C-PCB-128	6.29e+07	1.30 y	1.00	46:19			100		
13C-PCB-126	7.49e+07	1.59 y	1.13	45:15	0.977	0.972-0.982		106	106		13C-PCB-205	7.26e+07	0.91 y	1.00	54:01			100		
13C-PCB-127	7.92e+07	1.60 y	1.26	43:21	0.936	0.931-0.941		100	100											
13C-PCB-138	6.75e+07	1.27 y	1.12	44:45	0.966	0.961-0.971		95.9	95.9											
13C-PCB-141	6.49e+07	1.26 y	1.09	43:55	0.948	0.943-0.953		94.5	94.5											
13C-PCB-153	7.57e+07	1.27 y	1.27	43:10	0.932	0.927-0.937		94.6	94.6											
13C-PCB-155	5.95e+07	1.24 y	0.87	36:60	0.944	0.939-0.949		97.7	97.7											
13C-PCB-156	8.42e+07	1.28 y	1.35	48:01	1.037	1.032-1.042		99.1	99.1											
13C-PCB-157	8.72e+07	1.31 y	1.42	48:17	1.042	1.037-1.047		97.8	97.8											
13C-PCB-159	8.22e+07	1.28 y	1.37	46:02	0.994	0.989-0.999		95.5	95.5											
13C-PCB-167	8.66e+07	1.31 y	1.38	46:43	1.009	1.004-1.014		99.6	99.6											
13C-PCB-169	8.77e+07	1.30 y	1.38	50:24	1.088	1.084-1.094		101	101											
13C-PCB-170	3.67e+07	0.46 y	0.60	50:46	1.096	1.091-1.103		96.8	96.8											
13C-PCB-180	4.60e+07	0.46 y	0.76	49:18	1.064	1.059-1.069		96.7	96.7											
13C-PCB-188	5.64e+07	0.46 y	1.01	42:48	0.924	0.919-0.929		88.4	88.4											
13C-PCB-189	4.98e+07	0.46 y	0.80	52:14	1.128	1.124-1.136		98.7	98.7											
13C-PCB-194	5.31e+07	0.93 y	0.75	53:44	0.995	0.990-1.000		98.1	98.1											
13C-PCB-202	5.50e+07	0.93 y	0.99	48:13	1.041	1.036-1.046		88.5	88.5											
13C-PCB-206	5.66e+07	0.78 y	0.73	55:22	1.025	1.020-1.301		106	106											
13C-PCB-208	7.26e+07	0.76 y	1.08	53:01	0.981	0.977-0.987		92.4	92.4											
13C-PCB-209	5.60e+07	1.22 y	0.71	56:42	1.050	1.045-1.055		109	109											

Analyst: Dms

Date: 2/27/15

Vista Analytical Laboratory - Injection Log Run file: 150227E1 Instrument ID: VG-8 GC Column ID: ZB-1

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
150227E1	1	ST150227E1-1	DMS	27-FEB-15	12:36:34	ST150227E1-1	NA
150227E1	2	SOLVENT BLANK	DMS	27-FEB-15	13:40:43	ST150227E1-1	NA
150227E1	3	1500166-03@20X	DMS	27-FEB-15	14:44:54	ST150227E1-1	NA
150227E1	4	SOLVENT BLANK	DMS	27-FEB-15	15:49:04	ST150227E1-1	NA
150227E1	5	SOLVENT BLANK	DMS	27-FEB-15	16:53:21	ST150227E1-1	NA

CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST150227E1-1

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
Concentration within range?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/> NA	<input checked="" type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/> DM 2/2/15	<input checked="" type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Correct ICAL referenced?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Run Log:		
-Data file matches Conc Cal ID?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Samples within 12-hour clock?	<input checked="" type="checkbox"/> y	<input checked="" type="checkbox"/> n

	<u>Beg.</u>	<u>End</u>
Mass resolution > 10,000? ▪ Method 1614 > 5,000; CARB 429 > 8,000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF valleys < 25%?	<input checked="" type="checkbox"/> NA	<input checked="" type="checkbox"/> NA
Peaks integrated correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
Manual integrations included?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8280 CS1 Ending Standard		
-Ratios within limits		<input checked="" type="checkbox"/>
-S/N > 2.5:1		<input checked="" type="checkbox"/>
-CS1 within 12-hour clock		<input checked="" type="checkbox"/>

Comments:

Reviewed by: MC 2/2/15
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

Name	Mean RRF	%RSD	Samp# 1	Samp# 3	Samp# 4	Samp# 5	Samp# 6	Samp# 1
			10	0.25	0.50	2.0	40	300
			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
 J 1/9/15
 CT 1/21/15

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 1411819

	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:
Sample text: ST141016D1-4 1613 CS2 14I1821

Results:

	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 1411822

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

Analyte:

Inst. ID. VG-7

Data filename: 141016D1

Name	RRT Limits		Samp# 1	Samp# 3	Samp# 4	Samp# 5	Samp# 6	Samp# 1
	Lower	Upper	10	0.25	0.50	2.0	40	300
			RRT#1	RRT#2	RRT#3	RRT#4	RRT#5	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

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC.
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			RANGE (3)
2,3,7,8-TCDD	M/M+2	0.73	0.65-0.89	y	9.45	7.8 - 12.9
1,2,3,7,8-PeCDD	M/M+2	0.61	0.54-0.72	y	50.9	8.2 - 12.3 (4) 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: MDDate: 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: m)

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

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
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: ms

Date: 1/8/15

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

LABELLED 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: mDate: 1/8/15

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		RRT
	REFERENCE	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

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

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

Analyst: mm

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

(1) Contract-required limits for
Relative Retention Times (RRT)
as specified in Table 2, Method 1613. 10/94

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

Analyst: M

Date: 1/9/15

Client ID: 1613 CS3 14I1102
 Lab ID: ST141016D1-1

Filename: 141016D1 S:1 Acq:16-OCT-14 11:05:57
 GC Column ID: ZB-5MS ICal: 1613VG7-1-7-15 wt/vol: 1.000

ConCal: NA
 EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	Conc	Q	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	2.08e+06	0.73 y	1.17	26:60	1.001	9.4477	*	2.5	*	*	Total Tetra-Dioxins	54.8	55.1	*	*	*
1,2,3,7,8-PeCDD	8.78e+06	0.61 y	0.91	31:30	1.000	50.922	*	2.5	*	*	Total Penta-Dioxins	159	159	*	*	*
1,2,3,4,7,8-HxCDD	7.82e+06	1.26 y	1.08	34:50	1.000	50.237	*	2.5	*	*	Total Hexa-Dioxins	194	195	*	*	*
1,2,3,6,7,8-HxCDD	7.94e+06	1.25 y	1.06	34:57	1.001	49.601	*	2.5	*	*	Total Hepta-Dioxins	128	128	*	*	*
1,2,3,7,8,9-HxCDD	7.97e+06	1.24 y	0.93	35:15	1.000	49.631	*	2.5	*	*	Total Tetra-Furans	30.0	30.3	*	*	*
1,2,3,4,6,7,8-HpCDD	7.29e+06	1.04 y	1.10	38:42	1.000	50.805	*	2.5	*	*	Total Penta-Furans	209.92	210.51	*	*	*
OCDD	1.40e+07	0.89 y	0.95	42:02	1.000	102.06	*	2.5	*	*	Total Hexa-Furans	248	249	*	*	*
											Total Hepta-Furans	102	102	*	*	*
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	*	*						
											Rec	Qual				
IS 13C-2,3,7,8-TCDD	1.87e+07	0.79 y	1.06	26:58	1.021	98.865					98.9					
IS 13C-1,2,3,7,8-PeCDD	1.90e+07	0.63 y	1.18	31:29	1.192	90.040					90.0					
IS 13C-1,2,3,4,7,8-HxCDD	1.44e+07	1.25 y	0.72	34:49	1.014	96.577					96.6					
IS 13C-1,2,3,6,7,8-HxCDD	1.50e+07	1.25 y	0.74	34:56	1.017	98.426					98.4					
IS 13C-1,2,3,7,8,9-HxCDD	1.72e+07	1.23 y	0.85	35:14	1.026	97.305					97.3					
IS 13C-1,2,3,4,6,7,8-HpCDD	1.30e+07	1.07 y	0.65	38:42	1.127	95.724					95.7					
IS 13C-OCDD	2.89e+07	0.89 y	0.76	42:02	1.224	182.02					91.0					
IS 13C-2,3,7,8-TCDF	2.77e+07	0.74 y	0.92	26:12	0.992	101.61					102					
IS 13C-1,2,3,7,8-PeCDF	2.54e+07	1.55 y	0.92	30:19	1.148	92.843					92.8					
IS 13C-2,3,4,7,8-PeCDF	2.63e+07	1.61 y	0.93	31:13	1.182	95.246					95.2					
IS 13C-1,2,3,4,7,8-HxCDF	1.92e+07	0.51 y	0.98	33:55	0.988	94.089					94.1					
IS 13C-1,2,3,6,7,8-HxCDF	2.23e+07	0.50 y	1.08	34:03	0.991	99.047					99.0					
IS 13C-2,3,4,6,7,8-HxCDF	2.02e+07	0.52 y	1.03	34:39	1.009	94.921					94.9					
IS 13C-1,2,3,7,8,9-HxCDF	1.73e+07	0.51 y	0.86	35:38	1.037	97.069					97.1					
IS 13C-1,2,3,4,6,7,8-HpCDF	1.46e+07	0.43 y	0.72	37:29	1.091	97.247					97.2					
IS 13C-1,2,3,4,7,8,9-HpCDF	1.35e+07	0.45 y	0.70	39:15	1.143	93.423					93.4					
IS 13C-OCDF	3.39e+07	0.92 y	0.85	42:15	1.230	192.38					96.2					
C/Up 37C1-2,3,7,8-TCDD	2.18e+06		1.12	26:59	1.022	10.884					2180					
RS/RT 13C-1,2,3,4-TCDD	1.79e+07	0.80 y	1.00	26:24	*	100.00						Integrations	Reviewed			
RS 13C-1,2,3,4-TCDF	2.97e+07	0.78 y	1.00	24:58	*	100.00						by	by			
RS/RT 13C-1,2,3,4,6,9-HxCDF	2.08e+07	0.51 y	1.00	34:21	*	100.00						Analyst: <u>ms</u>	Analyst: <u>CT</u>			
												Date: <u>1/9/15</u>	Date: <u>1/12/15</u>			

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

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\ldb-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

CS 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 1411102, Description: 1613 CS3 1411102

#	Name	Resp	RA	n/y	RRF M...	wi/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			

CS 11/14/14

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\Curvedbldb-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	2,3,7,8-TCDF	1.48e5	0.81	NO	1.10	1.000	17.54	8.9493	89.5	0.0832
2	13C-2,3,7,8-TCDF	1.51e6	0.81	NO	0.844	1.000	17.52	109.62	110	0.171
3	13C-1,2,3,4-TCDF	1.63e6	0.81	NO	1.00	1.000	15.25	100.00	100	0.145
4	13C-1,2,3,4-TCDD	1.29e6	0.78	NO		1.000	16.00			

JS 11/14/14

Data filename: 150114E1

Name	Mean RRF	%RSD	Samp# 4	Samp# 5	Samp# 6	Samp# 7	Samp# 8	Samp# 2
			1.0	2.5	50	400	1000	0.25 *
			RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	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
 * = CSD Rejected due
 to PCB 153 contamination.
& ms 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	1.16	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 Hexa-PCB	0.94	8.69	%	1.44	1.43	1.31	1.29	1.28	1.59
Total Hepta-PCB	1.13	9.33	%	0.96	0.92	0.85	0.91	0.93	1.09
Total Octa-PCB	1.13	9.33	%	1.17	1.12	1.05	1.06	1.06	1.32
Total Nona-PCB	1.37	9.78	%	1.44	1.36	1.29	1.27	1.26	1.61
Total Deca-PCB	0.95	9.73	%	0.98	0.90	0.88	0.92	0.90	1.12
Total Tri-PCB	1.35	9.69	%	1.35	1.30	1.27	1.28	1.28	1.61
Total Tetra-PCB	0.99	10.97	%	1.04	0.99	0.92	0.90	0.90	1.18
Total Penta-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 η	Total Mono-PCB	0.00	-	- n	-	-	1.39
170	Tot η	Total Di-PCB	0.00	-	- n	-	-	1.39

171	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.28
172	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.28
173	Tot η	Total Tetra-PCB	0.00	-	- n	-	-	1.23
174	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.32
175	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.44
176	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	0.96
177	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	1.17
178	Tot η	Total Hepta-PCB	0.00	-	- n	-	-	1.44
179	Tot η	Total Octa-PCB	0.00	-	- n	-	-	0.98
180	Tot η	Total Octa-PCB	0.00	-	- n	-	-	1.35
181	Tot η	Total Nona-PCB	0.00	-	- n	-	-	1.04
182	Tot η	Total Deca-PCB	1.00	6.79e+05	1.05 y	56:57	-	1.42
183	Monoη	13C-PCB-1	100.00	1.70e+08	3.57 y	16:10	-	0.97
184	Monoη	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-η	13C-PCB-19	100.00	9.99e+07	1.10 y	24:16	-	0.57
189	Tri-η	13C-PCB-32	100.00	1.46e+08	1.10 y	27:11	-	0.84
190	Tri-η	13C-PCB-28	100.00	1.25e+08	1.03 y	29:09	-	1.09
191	Tri-η	13C-PCB-37	100.00	1.18e+08	1.04 y	33:01	-	1.03
192	Tetrη	13C-PCB-54	100.00	1.28e+08	0.77 y	28:02	-	1.00
193	Tetrη	13C-PCB-52	100.00	9.09e+07	0.78 y	31:33	-	0.71
194	Tetrη	13C-PCB-47	100.00	9.50e+07	0.76 y	32:04	-	0.74
195	Tetrη	13C-PCB-70	100.00	1.26e+08	0.78 y	35:35	-	0.99
196	Tetrη	13C-PCB-80	100.00	1.30e+08	0.79 y	36:00	-	1.02
197	Tetrη	13C-PCB-81	100.00	1.24e+08	0.77 y	39:05	-	0.96
198	Tetrη	13C-PCB-77	100.00	1.20e+08	0.79 y	39:41	-	0.94
199	Pentη	13C-PCB-104	100.00	8.90e+07	1.62 y	32:43	-	0.97
200	Pentη	13C-PCB-95	100.00	6.51e+07	1.60 y	35:52	-	0.71
201	Pentη	13C-PCB-101	100.00	7.10e+07	1.68 y	37:33	-	0.77
202	Pentη	13C-PCB-97	100.00	6.10e+07	1.61 y	38:52	-	0.66
203	Pentη	13C-PCB-123	100.00	8.03e+07	1.65 y	41:25	-	0.87
204	Pentη	13C-PCB-118	100.00	8.33e+07	1.62 y	41:36	-	0.90
205	Pentη	13C-PCB-114	100.00	8.57e+07	1.57 y	42:15	-	1.25
206	Pentη	13C-PCB-105	100.00	8.29e+07	1.58 y	43:07	-	1.21
207	Pentη	13C-PCB-127	100.00	8.47e+07	1.60 y	43:27	-	1.23
208	Pentη	13C-PCB-126	100.00	7.66e+07	1.55 y	45:21	-	1.12
209	Hexaη	13C-PCB-155	100.00	8.10e+07	1.26 y	37:06	-	0.88
210	Hexaη	13C-PCB-153	100.00	8.63e+07	1.26 y	43:16	-	1.26
211	Hexaη	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	Hexaη	13C-PCB-159	100.00	9.27e+07	1.26 y	46:08	-	1.35
214	Hexaη	13C-PCB-167	100.00	9.41e+07	1.25 y	46:49	-	1.37
215	Hexaη	13C-PCB-156	100.00	8.95e+07	1.29 y	48:07	-	1.30
216	Hexaη	13C-PCB-157	100.00	9.57e+07	1.30 y	48:23	-	1.39
217	Hexaη	13C-PCB-169	100.00	9.25e+07	1.28 y	50:32	-	1.35
218	Heptη	13C-PCB-188	100.00	6.78e+07	0.45 y	42:54	-	0.99
219	Heptη	13C-PCB-180	100.00	5.03e+07	0.47 y	49:24	-	0.73
220	Heptη	13C-PCB-170	100.00	4.12e+07	0.45 y	50:54	-	0.60
221	Heptη	13C-PCB-189	100.00	5.36e+07	0.47 y	52:26	-	0.78

222	Octaη	13C-PCB-202	100.00	6.61e+07	0.92 y	48:19	-	0.96
223	Octaη	13C-PCB-194	100.00	5.23e+07	0.90 y	53:56	-	0.78
224	Nonaη	13C-PCB-208	100.00	7.26e+07	0.77 y	53:13	-	1.08
225	Nonaη	13C-PCB-206	100.00	5.04e+07	0.78 y	55:34	-	0.75
226	Decaη	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-η	13C-PCB-31	100.00	1.15e+08	1.03 y	29:02	-	1.00
229	Tetrη	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	Hexaη	13C-PCB-128	100.00	6.87e+07	1.27 y	46:25	-	1.00

232	Octaη	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 η	Total Tri-PCB	0.00	-	- n	-	-	1.27
173	Tot η	Total Tetra-PCB	0.00	-	- n	-	-	1.16
174	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.25
175	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.43
176	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	0.92
177	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	1.12
178	Tot η	Total Hepta-PCB	0.00	-	- n	-	-	1.36
179	Tot η	Total Octa-PCB	0.00	-	- n	-	-	0.90
180	Tot η	Total Octa-PCB	0.00	-	- n	-	-	1.30
181	Tot η	Total Nona-PCB	0.00	-	- n	-	-	0.99
182	Tot η	Total Deca-PCB	2.50	1.48e+06	1.16 y	56:55	-	1.31
183	Monoη	13C-PCB-1	100.00	1.69e+08	3.58 y	16:10	-	0.98
184	Monoη	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-η	13C-PCB-19	100.00	9.97e+07	1.10 y	24:16	-	0.58
189	Tri-η	13C-PCB-32	100.00	1.43e+08	1.10 y	27:11	-	0.83
190	Tri-η	13C-PCB-28	100.00	1.18e+08	1.06 y	29:08	-	1.00
191	Tri-η	13C-PCB-37	100.00	1.05e+08	1.05 y	33:01	-	0.89
192	Tetrη	13C-PCB-54	100.00	1.32e+08	0.77 y	28:01	-	1.08
193	Tetrη	13C-PCB-52	100.00	8.88e+07	0.77 y	31:33	-	0.73
194	Tetrη	13C-PCB-47	100.00	9.03e+07	0.76 y	32:03	-	0.74
195	Tetrη	13C-PCB-70	100.00	1.16e+08	0.77 y	35:34	-	0.95
196	Tetrη	13C-PCB-80	100.00	1.21e+08	0.78 y	35:59	-	0.99
197	Tetrη	13C-PCB-81	100.00	1.17e+08	0.79 y	39:05	-	0.96
198	Tetrη	13C-PCB-77	100.00	1.15e+08	0.78 y	39:41	-	0.94
199	Pentη	13C-PCB-104	100.00	8.57e+07	1.62 y	32:42	-	0.98
200	Pentη	13C-PCB-95	100.00	6.19e+07	1.62 y	35:52	-	0.71
201	Pentη	13C-PCB-101	100.00	7.03e+07	1.60 y	37:33	-	0.80
202	Pentη	13C-PCB-97	100.00	5.90e+07	1.61 y	38:51	-	0.67
203	Pentη	13C-PCB-123	100.00	7.92e+07	1.59 y	41:25	-	0.90
204	Pentη	13C-PCB-118	100.00	8.31e+07	1.61 y	41:35	-	0.95
205	Pentη	13C-PCB-114	100.00	8.41e+07	1.59 y	42:15	-	1.24
206	Pentη	13C-PCB-105	100.00	8.15e+07	1.57 y	43:06	-	1.20
207	Pentη	13C-PCB-127	100.00	8.51e+07	1.56 y	43:27	-	1.25
208	Pentη	13C-PCB-126	100.00	7.30e+07	1.52 y	45:20	-	1.07
209	Hexaη	13C-PCB-155	100.00	8.08e+07	1.29 y	37:06	-	0.92
210	Hexaη	13C-PCB-153	100.00	8.63e+07	1.25 y	43:16	-	1.27
211	Hexaη	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	Hexaη	13C-PCB-159	100.00	9.21e+07	1.26 y	46:08	-	1.36
214	Hexaη	13C-PCB-167	100.00	9.42e+07	1.28 y	46:49	-	1.39
215	Hexaη	13C-PCB-156	100.00	9.08e+07	1.28 y	48:06	-	1.34
216	Hexaη	13C-PCB-157	100.00	9.19e+07	1.25 y	48:22	-	1.35
217	Hexaη	13C-PCB-169	100.00	9.21e+07	1.27 y	50:32	-	1.36
218	Heptη	13C-PCB-188	100.00	6.77e+07	0.45 y	42:54	-	1.00
219	Heptη	13C-PCB-180	100.00	5.07e+07	0.45 y	49:23	-	0.75
220	Heptη	13C-PCB-170	100.00	3.98e+07	0.46 y	50:54	-	0.59
221	Heptη	13C-PCB-189	100.00	5.32e+07	0.47 y	52:26	-	0.78
222	Octaη	13C-PCB-202	100.00	6.68e+07	0.92 y	48:19	-	0.98

223	Octaη	13C-PCB-194	100.00	5.10e+07	0.91 y	53:56	-	0.77
224	Nonaη	13C-PCB-208	100.00	7.15e+07	0.76 y	53:13	-	1.09
225	Nonaη	13C-PCB-206	100.00	4.98e+07	0.77 y	55:33	-	0.76
226	Decaη	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-η	13C-PCB-31	100.00	1.18e+08	1.05 y	29:02	-	1.00
229	Tetraη	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	Hexaη	13C-PCB-128	100.00	6.80e+07	1.29 y	46:24	-	1.00
232	Octaη	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

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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 η	Total Tri-PCB	0.00	-	-	n	-	-	1.14
172	Tot η	Total Tri-PCB	0.00	-	-	n	-	-	1.16
173	Tot η	Total Tetra-PCB	0.00	-	-	n	-	-	1.06
174	Tot η	Total Penta-PCB	0.00	-	-	n	-	-	1.15
175	Tot η	Total Penta-PCB	0.00	-	-	n	-	-	1.31
176	Tot η	Total Hexa-PCB	0.00	-	-	n	-	-	0.85
177	Tot η	Total Hexa-PCB	0.00	-	-	n	-	-	1.05
178	Tot η	Total Hepta-PCB	0.00	-	-	n	-	-	1.29
179	Tot η	Total Octa-PCB	0.00	-	-	n	-	-	0.88
180	Tot η	Total Octa-PCB	0.00	-	-	n	-	-	1.27
181	Tot η	Total Nona-PCB	0.00	-	-	n	-	-	0.92
182	Tot η	Total Deca-PCB	50.00	2.15e+07	1.16	y	56:55	-	1.21
183	Monoη	13C-PCB-1	100.00	1.31e+08	3.59	y	16:09	-	0.98
184	Monoη	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-η	13C-PCB-19	100.00	7.48e+07	1.10	y	24:16	-	0.56
189	Tri-η	13C-PCB-32	100.00	1.10e+08	1.10	y	27:10	-	0.82
190	Tri-η	13C-PCB-28	100.00	9.04e+07	1.03	y	29:08	-	1.21
191	Tri-η	13C-PCB-37	100.00	7.45e+07	1.04	y	33:00	-	1.00
192	Tetraη	13C-PCB-54	100.00	1.00e+08	0.78	y	28:01	-	1.15
193	Tetraη	13C-PCB-52	100.00	6.66e+07	0.76	y	31:33	-	0.76
194	Tetraη	13C-PCB-47	100.00	7.29e+07	0.77	y	32:03	-	0.84
195	Tetraη	13C-PCB-70	100.00	8.67e+07	0.76	y	35:34	-	0.99
196	Tetraη	13C-PCB-80	100.00	9.01e+07	0.78	y	35:59	-	1.03
197	Tetraη	13C-PCB-81	100.00	8.87e+07	0.77	y	39:05	-	1.02
198	Tetraη	13C-PCB-77	100.00	8.51e+07	0.79	y	39:40	-	0.98
199	Pentη	13C-PCB-104	100.00	6.91e+07	1.61	y	32:42	-	1.05
200	Pentη	13C-PCB-95	100.00	4.69e+07	1.61	y	35:52	-	0.72
201	Pentη	13C-PCB-101	100.00	4.96e+07	1.62	y	37:33	-	0.76
202	Pentη	13C-PCB-97	100.00	4.33e+07	1.65	y	38:51	-	0.66
203	Pentη	13C-PCB-123	100.00	5.73e+07	1.61	y	41:24	-	0.87
204	Pentη	13C-PCB-118	100.00	6.14e+07	1.60	y	41:35	-	0.93
205	Pentη	13C-PCB-114	100.00	6.26e+07	1.57	y	42:14	-	1.25
206	Pentη	13C-PCB-105	100.00	5.94e+07	1.58	y	43:06	-	1.19
207	Pentη	13C-PCB-127	100.00	6.10e+07	1.55	y	43:26	-	1.22
208	Pentη	13C-PCB-126	100.00	5.27e+07	1.61	y	45:20	-	1.06
209	Hexaη	13C-PCB-155	100.00	6.10e+07	1.23	y	37:05	-	0.93
210	Hexaη	13C-PCB-153	100.00	6.45e+07	1.29	y	43:15	-	1.29
211	Hexaη	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	Hexaη	13C-PCB-159	100.00	6.75e+07	1.31	y	46:07	-	1.35
214	Hexaη	13C-PCB-167	100.00	7.02e+07	1.27	y	46:48	-	1.41
215	Hexaη	13C-PCB-156	100.00	6.63e+07	1.27	y	48:06	-	1.33
216	Hexaη	13C-PCB-157	100.00	7.04e+07	1.32	y	48:22	-	1.41
217	Hexaη	13C-PCB-169	100.00	6.82e+07	1.25	y	50:31	-	1.37
218	Heptη	13C-PCB-188	100.00	5.04e+07	0.46	y	42:53	-	1.01
219	Heptη	13C-PCB-180	100.00	3.77e+07	0.46	y	49:23	-	0.76
220	Heptη	13C-PCB-170	100.00	2.95e+07	0.47	y	50:54	-	0.59
221	Heptη	13C-PCB-189	100.00	3.89e+07	0.45	y	52:25	-	0.78

222	Octaη	13C-PCB-202	100.00	4.98e+07	0.89 y	48:18	-	1.00
223	Octaη	13C-PCB-194	100.00	3.54e+07	0.90 y	53:56	-	0.75
224	Nonaη	13C-PCB-208	100.00	5.30e+07	0.77 y	53:13	-	1.11
225	Nonaη	13C-PCB-206	100.00	3.47e+07	0.77 y	55:33	-	0.73
226	Decaη	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-η	13C-PCB-31	100.00	7.47e+07	1.02 y	29:01	-	1.00
229	Tetrη	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	Hexaη	13C-PCB-128	100.00	4.99e+07	1.27 y	46:24	-	1.00

232	Octaη	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 η	Total Mono-PCB	0.00	-	- n	-	-	1.25
170	Tot η	Total Di-PCB	0.00	-	- n	-	-	1.22
171	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.11

172	Tot	η	Total Tri-PCB	0.00	-	-	n	-	-	-	1.18
173	Tot	η	Total Tetra-PCB	0.00	-	-	n	-	-	-	1.08
174	Tot	η	Total Penta-PCB	0.00	-	-	n	-	-	-	1.16
175	Tot	η	Total Penta-PCB	0.00	-	-	n	-	-	-	1.29
176	Tot	η	Total Hexa-PCB	0.00	-	-	n	-	-	-	0.91
177	Tot	η	Total Hexa-PCB	0.00	-	-	n	-	-	-	1.06
178	Tot	η	Total Hepta-PCB	0.00	-	-	n	-	-	-	1.27
179	Tot	η	Total Octa-PCB	0.00	-	-	n	-	-	-	0.92
180	Tot	η	Total Octa-PCB	0.00	-	-	n	-	-	-	1.28
181	Tot	η	Total Nona-PCB	0.00	-	-	n	-	-	-	0.90
182	Tot	η	Total Deca-PCB	400.00	2.07e+08	1.17	y	56:58	-	-	1.22
183	Mono	η	13C-PCB-1	100.00	1.31e+08	3.58	y	16:10	-	-	0.87
184	Mono	η	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	-η	13C-PCB-19	100.00	8.61e+07	1.11	y	24:16	-	-	0.57
189	Tri	-η	13C-PCB-32	100.00	1.28e+08	1.10	y	27:11	-	-	0.85
190	Tri	-η	13C-PCB-28	100.00	9.48e+07	1.03	y	29:09	-	-	0.96
191	Tri	-η	13C-PCB-37	100.00	8.72e+07	1.04	y	33:01	-	-	0.88
192	Tetr	η	13C-PCB-54	100.00	1.10e+08	0.77	y	28:01	-	-	1.03
193	Tetr	η	13C-PCB-52	100.00	7.25e+07	0.77	y	31:34	-	-	0.68
194	Tetr	η	13C-PCB-47	100.00	8.30e+07	0.77	y	32:04	-	-	0.78
195	Tetr	η	13C-PCB-70	100.00	1.06e+08	0.76	y	35:34	-	-	0.99
196	Tetr	η	13C-PCB-80	100.00	1.06e+08	0.75	y	35:59	-	-	1.00
197	Tetr	η	13C-PCB-81	100.00	1.04e+08	0.78	y	39:06	-	-	0.97
198	Tetr	η	13C-PCB-77	100.00	9.87e+07	0.76	y	39:41	-	-	0.93
199	Pent	η	13C-PCB-104	100.00	7.49e+07	1.60	y	32:43	-	-	0.95
200	Pent	η	13C-PCB-95	100.00	5.64e+07	1.61	y	35:53	-	-	0.71
201	Pent	η	13C-PCB-101	100.00	5.96e+07	1.61	y	37:34	-	-	0.75
202	Pent	η	13C-PCB-97	100.00	5.17e+07	1.63	y	38:51	-	-	0.65
203	Pent	η	13C-PCB-123	100.00	7.00e+07	1.62	y	41:25	-	-	0.88
204	Pent	η	13C-PCB-118	100.00	7.68e+07	1.66	y	41:36	-	-	0.97
205	Pent	η	13C-PCB-114	100.00	7.59e+07	1.59	y	42:15	-	-	1.23
206	Pent	η	13C-PCB-105	100.00	6.87e+07	1.58	y	43:07	-	-	1.11
207	Pent	η	13C-PCB-127	100.00	7.37e+07	1.55	y	43:27	-	-	1.19
208	Pent	η	13C-PCB-126	100.00	7.18e+07	1.55	y	45:21	-	-	1.16
209	Hexa	η	13C-PCB-155	100.00	6.66e+07	1.26	y	37:06	-	-	0.84
210	Hexa	η	13C-PCB-153	100.00	7.63e+07	1.28	y	43:16	-	-	1.23
211	Hexa	η	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	η	13C-PCB-159	100.00	8.47e+07	1.26	y	46:08	-	-	1.37
214	Hexa	η	13C-PCB-167	100.00	8.20e+07	1.28	y	46:49	-	-	1.33
215	Hexa	η	13C-PCB-156	100.00	8.33e+07	1.29	y	48:06	-	-	1.35
216	Hexa	η	13C-PCB-157	100.00	8.77e+07	1.28	y	48:22	-	-	1.42
217	Hexa	η	13C-PCB-169	100.00	8.32e+07	1.28	y	50:33	-	-	1.34
218	Hept	η	13C-PCB-188	100.00	6.38e+07	0.45	y	42:54	-	-	1.03
219	Hept	η	13C-PCB-180	100.00	4.66e+07	0.47	y	49:24	-	-	0.75
220	Hept	η	13C-PCB-170	100.00	3.75e+07	0.47	y	50:55	-	-	0.61
221	Hept	η	13C-PCB-189	100.00	4.95e+07	0.46	y	52:26	-	-	0.80
222	Octa	η	13C-PCB-202	100.00	6.06e+07	0.91	y	48:19	-	-	0.98

223	Octaη	13C-PCB-194	100.00	4.22e+07	0.89 y	53:57	-	0.72
224	Nonaη	13C-PCB-208	100.00	6.60e+07	0.76 y	53:14	-	1.12
225	Nonaη	13C-PCB-206	100.00	4.43e+07	0.76 y	55:35	-	0.75
226	Decaη	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-η	13C-PCB-31	100.00	9.85e+07	1.04 y	29:02	-	1.00
229	Tetraη	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	Hexaη	13C-PCB-128	100.00	6.19e+07	1.30 y	46:24	-	1.00
232	Octaη	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	39:15	-	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 η	Total Mono-PCB	0.00	-	- n	-	-	1.33
170	Tot η	Total Di-PCB	0.00	-	- n	-	-	1.23

171	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.10
172	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.13
173	Tot η	Total Tetra-PCB	0.00	-	- n	-	-	1.04
174	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.14
175	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.28
176	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	0.93
177	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	1.06
178	Tot η	Total Hepta-PCB	0.00	-	- n	-	-	1.26
179	Tot η	Total Octa-PCB	0.00	-	- n	-	-	0.90
180	Tot η	Total Octa-PCB	0.00	-	- n	-	-	1.28
181	Tot η	Total Nona-PCB	0.00	-	- n	-	-	0.90
182	Tot η	Total Deca-PCB	1000.00	4.90e+08	1.17 y	56:57	-	1.23
183	Monoη	13C-PCB-1	100.00	1.04e+08	3.59 y	16:10	-	0.78
184	Monoη	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-η	13C-PCB-19	100.00	7.15e+07	1.09 y	24:17	-	0.54
189	Tri-η	13C-PCB-32	100.00	1.08e+08	1.10 y	27:12	-	0.81
190	Tri-η	13C-PCB-28	100.00	8.14e+07	1.06 y	29:09	-	1.15
191	Tri-η	13C-PCB-37	100.00	7.21e+07	1.00 y	33:01	-	1.02
192	Tetrη	13C-PCB-54	100.00	9.52e+07	0.76 y	28:02	-	1.08
193	Tetrη	13C-PCB-52	100.00	6.10e+07	0.76 y	31:34	-	0.69
194	Tetrη	13C-PCB-47	100.00	6.93e+07	0.76 y	32:04	-	0.79
195	Tetrη	13C-PCB-70	100.00	9.52e+07	0.77 y	35:35	-	1.08
196	Tetrη	13C-PCB-80	100.00	9.56e+07	0.77 y	36:00	-	1.08
197	Tetrη	13C-PCB-81	100.00	9.43e+07	0.77 y	39:06	-	1.07
198	Tetrη	13C-PCB-77	100.00	9.31e+07	0.78 y	39:42	-	1.06
199	Pentη	13C-PCB-104	100.00	6.44e+07	1.60 y	32:43	-	0.89
200	Pentη	13C-PCB-95	100.00	4.86e+07	1.62 y	35:53	-	0.67
201	Pentη	13C-PCB-101	100.00	5.46e+07	1.67 y	37:33	-	0.75
202	Pentη	13C-PCB-97	100.00	4.62e+07	1.66 y	38:52	-	0.64
203	Pentη	13C-PCB-123	100.00	6.30e+07	1.65 y	41:25	-	0.87
204	Pentη	13C-PCB-118	100.00	6.84e+07	1.63 y	41:36	-	0.95
205	Pentη	13C-PCB-114	100.00	6.88e+07	1.63 y	42:15	-	1.25
206	Pentη	13C-PCB-105	100.00	6.67e+07	1.58 y	43:07	-	1.21
207	Pentη	13C-PCB-127	100.00	7.14e+07	1.58 y	43:27	-	1.30
208	Pentη	13C-PCB-126	100.00	6.15e+07	1.59 y	45:21	-	1.12
209	Hexaη	13C-PCB-155	100.00	5.83e+07	1.23 y	37:06	-	0.81
210	Hexaη	13C-PCB-153	100.00	6.98e+07	1.26 y	43:17	-	1.27
211	Hexaη	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	Hexaη	13C-PCB-159	100.00	7.72e+07	1.27 y	46:08	-	1.41
214	Hexaη	13C-PCB-167	100.00	7.55e+07	1.27 y	46:49	-	1.37
215	Hexaη	13C-PCB-156	100.00	7.74e+07	1.26 y	48:07	-	1.41
216	Hexaη	13C-PCB-157	100.00	8.11e+07	1.28 y	48:23	-	1.48
217	Hexaη	13C-PCB-169	100.00	7.75e+07	1.26 y	50:33	-	1.41
218	Heptη	13C-PCB-188	100.00	5.77e+07	0.46 y	42:55	-	1.05
219	Heptη	13C-PCB-180	100.00	4.27e+07	0.47 y	49:24	-	0.78
220	Heptη	13C-PCB-170	100.00	3.39e+07	0.46 y	50:55	-	0.62
221	Heptη	13C-PCB-189	100.00	4.55e+07	0.47 y	52:26	-	0.83

222	Octaη	13C-PCB-202	100.00	5.50e+07	0.90 y	48:20	-	1.00
223	Octaη	13C-PCB-194	100.00	3.90e+07	0.88 y	53:57	-	0.72
224	Nonaη	13C-PCB-208	100.00	6.09e+07	0.76 y	53:14	-	1.13
225	Nonaη	13C-PCB-206	100.00	4.02e+07	0.78 y	55:35	-	0.74
226	Decaη	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-η	13C-PCB-31	100.00	7.06e+07	1.04 y	29:03	-	1.00
229	Tetraη	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	Hexaη	13C-PCB-128	100.00	5.49e+07	1.27 y	46:25	-	1.00

232	Octaη	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 η	Total Mono-PCB	0.00	-	- n	-	-	1.30
170	Tot η	Total Di-PCB	0.00	-	- n	-	-	1.52
171	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.39

172	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.34
173	Tot η	Total Tetra-PCB	0.00	-	- n	-	-	1.42
174	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.42
175	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.59
176	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	1.09
177	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	1.32
178	Tot η	Total Hepta-PCB	0.00	-	- n	-	-	1.61
179	Tot η	Total Octa-PCB	0.00	-	- n	-	-	1.12
180	Tot η	Total Octa-PCB	0.00	-	- n	-	-	1.61
181	Tot η	Total Nona-PCB	0.00	-	- n	-	-	1.18
182	Tot η	Total Deca-PCB	0.25	3.27e+05	1.27 y	56:56	-	1.69
183	Monoη	13C-PCB-1	100.00	2.35e+08	3.49 y	16:09	-	0.87
184	Monoη	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-η	13C-PCB-19	100.00	1.47e+08	1.12 y	24:15	-	0.54
189	Tri-η	13C-PCB-32	100.00	2.16e+08	1.11 y	27:10	-	0.80
190	Tri-η	13C-PCB-28	100.00	1.67e+08	1.03 y	29:08	-	1.00
191	Tri-η	13C-PCB-37	100.00	1.60e+08	1.04 y	33:00	-	0.96
192	Tetraη	13C-PCB-54	100.00	1.91e+08	0.76 y	28:01	-	1.03
193	Tetraη	13C-PCB-52	100.00	1.30e+08	0.78 y	31:32	-	0.70
194	Tetraη	13C-PCB-47	100.00	1.36e+08	0.78 y	32:03	-	0.73
195	Tetraη	13C-PCB-70	100.00	1.78e+08	0.78 y	35:33	-	0.96
196	Tetraη	13C-PCB-80	100.00	1.89e+08	0.79 y	35:59	-	1.02
197	Tetraη	13C-PCB-81	100.00	1.86e+08	0.78 y	39:05	-	1.00
198	Tetraη	13C-PCB-77	100.00	1.77e+08	0.79 y	39:41	-	0.95
199	Pentη	13C-PCB-104	100.00	1.51e+08	1.58 y	32:42	-	0.96
200	Pentη	13C-PCB-95	100.00	1.06e+08	1.59 y	35:52	-	0.68
201	Pentη	13C-PCB-101	100.00	1.20e+08	1.60 y	37:33	-	0.76
202	Pentη	13C-PCB-97	100.00	1.03e+08	1.63 y	38:51	-	0.66
203	Pentη	13C-PCB-123	100.00	1.38e+08	1.61 y	41:25	-	0.88
204	Pentη	13C-PCB-118	100.00	1.44e+08	1.62 y	41:35	-	0.91
205	Pentη	13C-PCB-114	100.00	1.49e+08	1.59 y	42:15	-	1.32
206	Pentη	13C-PCB-105	100.00	1.45e+08	1.60 y	43:06	-	1.29
207	Pentη	13C-PCB-127	100.00	1.52e+08	1.58 y	43:26	-	1.34
208	Pentη	13C-PCB-126	100.00	1.39e+08	1.58 y	45:20	-	1.23
209	Hexaη	13C-PCB-155	100.00	1.32e+08	1.26 y	37:05	-	0.84
210	Hexaη	13C-PCB-153	100.00	1.49e+08	1.28 y	43:16	-	1.31
211	Hexaη	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	Hexaη	13C-PCB-159	100.00	1.56e+08	1.29 y	46:07	-	1.38
214	Hexaη	13C-PCB-167	100.00	1.61e+08	1.27 y	46:49	-	1.42
215	Hexaη	13C-PCB-156	100.00	1.55e+08	1.30 y	48:06	-	1.37
216	Hexaη	13C-PCB-157	100.00	1.64e+08	1.33 y	48:22	-	1.45
217	Hexaη	13C-PCB-169	100.00	1.66e+08	1.26 y	50:32	-	1.46
218	Heptη	13C-PCB-188	100.00	1.14e+08	0.45 y	42:54	-	1.01
219	Heptη	13C-PCB-180	100.00	8.73e+07	0.47 y	49:23	-	0.77
220	Heptη	13C-PCB-170	100.00	6.97e+07	0.45 y	50:54	-	0.62
221	Heptη	13C-PCB-189	100.00	9.47e-07	0.46 y	52:25	-	0.84
222	Octaη	13C-PCB-202	100.00	1.14e+08	0.93 y	48:19	-	1.00

223	Octaη	13C-PCB-194	100.00	8.63e+07	0.90 y	53:56	-	0.73
224	Nonaη	13C-PCB-208	100.00	1.14e+08	0.77 y	53:13	-	0.97
225	Nonaη	13C-PCB-206	100.00	7.88e+07	0.76 y	55:34	-	0.67
226	Decaη	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-η	13C-PCB-31	100.00	1.67e+08	1.05 y	29:01	-	1.00
229	Tetrη	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	Hexaη	13C-PCB-128	100.00	1.13e+08	1.27 y	46:23	-	1.00
232	Octaη	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 SH6 Analysis Date: 14-JAN-15 Time: 18:00:03

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	2.99	2.66-3.60	y	46.1	37.5-62.5	PCB-52/69	0.74	0.65-0.89	y	93.1	75.0-125
PCB-2	2.99	2.66-3.60	y	48.8	37.5-62.5	PCB-73	0.75	0.65-0.89	y	50.2	37.5-62.5
PCB-3	2.98	2.66-3.60	y	48.7	37.5-62.5	PCB-43/49	0.73	0.65-0.89	y	93.4	75.0-125
PCB-4/10	1.64	1.33-1.79	y	93.0	75-125	PCB-47	0.74	0.65-0.89	y	45.6	37.5-62.5
PCB-7/9	1.63	1.33-1.79	y	94.5	75-125	PCB-48/75	0.73	0.65-0.89	y	90.7	75.0-125
PCB-6	1.65	1.33-1.79	y	47.6	37.5-62.5	PCB-65	0.73	0.65-0.89	y	42.9	37.5-62.5
PCB-5/8	1.64	1.33-1.79	y	92.5	75-125	PCB-62	0.74	0.65-0.89	y	47.2	37.5-62.5
PCB-14	1.64	1.33-1.79	y	48.1	37.5-62.5	PCB-44	0.74	0.65-0.89	y	46.2	37.5-62.5
PCB-11	1.68	1.33-1.79	y	47.1	37.5-62.5	PCB-42/59	0.74	0.65-0.89	y	85.0	75.0-125
PCB-12/13	1.65	1.33-1.79	y	94.6	75-125	PCB-41/64/71/72	0.73	0.65-0.89	y	170.4	150-250
PCB-15	1.65	1.33-1.79	y	47.1	37.5-62.5	PCB-68	0.73	0.65-0.89	y	40.2	37.5-62.5
PCB-19	1.06	0.88-1.20	y	47.6	37.5-62.5	PCB-40	0.73	0.65-0.89	y	40.8	37.5-62.5
PCB-30	1.05	0.88-1.20	y	47.9	37.5-62.5	PCB-57	0.74	0.65-0.89	y	46.0	37.5-62.5
PCB-18	1.06	0.88-1.20	y	47.8	37.5-62.5	PCB-67	0.73	0.65-0.89	y	45.9	37.5-62.5
PCB-17	1.05	0.88-1.20	y	48.2	37.5-62.5	PCB-58	0.76	0.65-0.89	y	49.2	37.5-62.5
PCB-24/27	1.06	0.88-1.20	y	95.1	75.0-125	PCB-63	0.71	0.65-0.89	y	47.3	37.5-62.5
PCB-16/32	1.05	0.88-1.20	y	93.3	75.0-125	PCB-74	0.74	0.65-0.89	y	44.5	37.5-62.5
PCB-34	1.01	0.88-1.20	y	45.7	37.5-62.5	PCB-61/70	0.73	0.65-0.89	y	92.8	75.0-125
PCB-23	1.06	0.88-1.20	y	47.9	37.5-62.5	PCB-76/66	0.74	0.65-0.89	y	90.0	75.0-125
PCB-29	1.01	0.88-1.20	y	43.7	37.5-62.5	PCB-80	0.74	0.65-0.89	y	45.2	37.5-62.5
PCB-26	1.00	0.88-1.20	y	44.9	37.5-62.5	PCB-55	0.74	0.65-0.89	y	45.9	37.5-62.5
PCB-25	1.01	0.88-1.20	y	45.8	37.5-62.5	PCB-56/60	0.73	0.65-0.89	y	88.4	75.0-125
PCB-31	1.03	0.88-1.20	y	45.4	37.5-62.5	PCB-79	0.73	0.65-0.89	y	44.5	37.5-62.5
PCB-28	1.04	0.88-1.20	y	43.3	37.5-62.5	PCB-78	0.74	0.65-0.89	y	43.6	37.5-62.5
PCB-20/21/33	1.02	0.88-1.20	y	136.2	112.5-225	PCB-81	0.75	0.65-0.89	y	45.5	37.5-62.5
PCB-22	1.03	0.88-1.20	y	46.7	37.5-62.5	PCB-77	0.76	0.65-0.89	y	45.7	37.5-62.5
PCB-36	1.05	0.88-1.20	y	53.8	37.5-62.5	PCB-104	1.59	1.32-1.78	y	45.9	37.5-62.5
PCB-39	1.05	0.88-1.20	y	50.8	37.5-62.5	PCB-96	1.56	1.32-1.78	y	43.9	37.5-62.5
PCB-38	1.03	0.88-1.20	y	52.5	37.5-62.5	PCB-103	1.54	1.32-1.78	y	44.4	37.5-62.5
PCB-35	1.03	0.88-1.20	y	50.7	37.5-62.5	PCB-100	1.57	1.32-1.78	y	45.3	37.5-62.5
PCB-37	1.08	0.88-1.20	y	47.6	37.5-62.5	PCB-94	1.56	1.32-1.78	y	46.8	37.5-62.5
PCB-54	0.74	0.65-0.89	y	46.6	37.5-62.5	PCB-95/98/102	1.52	1.32-1.78	y	134.8	112.5-225
PCB-50	0.72	0.65-0.89	y	46.9	37.5-62.5	PCB-93	1.68	1.32-1.78	y	53.0	37.5-62.5
PCB-53	0.75	0.65-0.89	y	48.1	37.5-62.5	PCB-88/91	1.56	1.32-1.78	y	99.5	75.0-125
PCB-51	0.72	0.65-0.89	y	47.8	37.5-62.5	PCB-121	1.57	1.32-1.78	y	44.4	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						

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)	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-140	1.24	1.05-1.43	y	44.8	37.5-62.5
PCB-89	1.53	1.32-1.78	y	47.5	37.5-62.5	PCB-134/143	1.22	1.05-1.43	y	91.8	75.0-125
PCB-90/101	1.56	1.32-1.78	y	93.5	75.0-125	PCB-133/142	1.24	1.05-1.43	y	93.1	75.0-125
PCB-113	1.55	1.32-1.78	y	51.7	37.5-62.5	PCB-131	1.16	1.05-1.43	y	46.7	37.5-62.5
PCB-99	1.60	1.32-1.78	y	41.4	37.5-62.5	PCB-146/165	1.22	1.05-1.43	y	93.5	75.0-125
PCB-119	1.56	1.32-1.78	y	47.0	37.5-62.5	PCB-132/161	1.22	1.05-1.43	y	92.8	75.0-125
PCB-108/112	1.56	1.32-1.78	y	94.2	75.0-125	PCB-153	1.21	1.05-1.43	y	43.2	37.5-62.5
PCB-83	1.57	1.32-1.78	y	47.6	37.5-62.5	PCB-168	1.22	1.05-1.43	y	46.7	37.5-62.5
PCB-97	1.55	1.32-1.78	y	46.2	37.5-62.5	PCB-141	1.22	1.05-1.43	y	45.4	37.5-62.5
PCB-86	1.46	1.32-1.78	y	48.0	37.5-62.5	PCB-137	1.18	1.05-1.43	y	45.4	37.5-62.5
PCB-87/117/125	1.59	1.32-1.78	y	142.8	112.5-225	PCB-130	1.21	1.05-1.43	y	48.2	37.5-62.5
PCB-111/115	1.56	1.32-1.78	y	95.3	75.0-125	PCB-138/163/164	1.21	1.05-1.43	y	137.7	112.5-225
PCB-85/116	1.60	1.32-1.78	y	95.6	75.0-125	PCB-158/160	1.22	1.05-1.43	y	93.2	75.0-125
PCB-120	1.53	1.32-1.78	y	46.1	37.5-62.5	PCB-129	1.20	1.05-1.43	y	44.6	37.5-62.5
PCB-110	1.56	1.32-1.78	y	47.5	37.5-62.5	PCB-166	1.21	1.05-1.43	y	46.6	37.5-62.5
PCB-82	1.56	1.32-1.78	y	48.9	37.5-62.5	PCB-159	1.22	1.05-1.43	y	47.9	37.5-62.5
PCB-124	1.57	1.32-1.78	y	49.4	37.5-62.5	PCB-128/162	1.20	1.05-1.43	y	94.0	75.0-125
PCB-107/109	1.58	1.32-1.78	y	90.6	75.0-125	PCB-167	1.17	1.05-1.43	y	46.3	37.5-62.5
PCB-123	1.55	1.32-1.78	y	48.4	37.5-62.5	PCB-156	1.19	1.05-1.43	y	46.7	37.5-62.5
PCB-106/118	1.54	1.32-1.78	y	92.8	75.0-125	PCB-157	1.21	1.05-1.43	y	46.2	37.5-62.5
PCB-114	1.62	1.32-1.78	y	46.9	37.5-62.5	PCB-157	1.21	1.05-1.43	y	46.2	37.5-62.5
PCB-122	1.63	1.32-1.78	y	45.9	37.5-62.5	PCB-169	1.20	1.05-1.43	y	47.2	37.5-62.5
PCB-105	1.65	1.32-1.78	y	47.1	37.5-62.5	PCB-188	1.06	0.89-1.21	y	47.0	37.5-62.5
PCB-127	1.69	1.32-1.78	y	47.5	37.5-62.5	PCB-184	1.05	0.89-1.21	y	47.6	37.5-62.5
PCB-126	1.64	1.32-1.78	y	49.3	37.5-62.5	PCB-179	1.03	0.89-1.21	y	47.9	37.5-62.5
PCB-155	1.23	1.05-1.43	y	46.8	37.5-62.5	PCB-176	1.04	0.89-1.21	y	48.0	37.5-62.5
PCB-150	1.24	1.05-1.43	y	45.2	37.5-62.5	PCB-186	1.05	0.89-1.21	y	46.9	37.5-62.5
PCB-152	1.25	1.05-1.43	y	44.2	37.5-62.5	PCB-178	1.06	0.89-1.21	y	46.4	37.5-62.5
PCB-145	1.24	1.05-1.43	y	45.5	37.5-62.5	PCB-175	1.06	0.89-1.21	y	48.1	37.5-62.5
PCB-136	1.23	1.05-1.43	y	47.5	37.5-62.5	PCB-182/187	1.05	0.89-1.21	y	93.3	75.0-125
PCB-148	1.24	1.05-1.43	y	43.6	37.5-62.5	PCB-183	1.04	0.89-1.21	y	47.4	37.5-62.5
PCB-154	1.23	1.05-1.43	y	45.1	37.5-62.5	PCB-185	1.05	0.89-1.21	y	47.6	37.5-62.5
PCB-151	1.25	1.05-1.43	y	46.1	37.5-62.5	PCB-174	1.05	0.89-1.21	y	48.5	37.5-62.5
PCB-135	1.23	1.05-1.43	y	45.1	37.5-62.5	PCB-181	1.08	0.89-1.21	y	48.3	37.5-62.5
PCB-144	1.33	1.05-1.43	y	45.7	37.5-62.5	PCB-177	1.04	0.89-1.21	y	45.9	37.5-62.5
PCB-147	1.15	1.05-1.43	y	43.6	37.5-62.5	PCB-171	1.05	0.89-1.21	y	46.1	37.5-62.5
PCB-139/149	1.23	1.05-1.43	y	88.3	75.0-125	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: pcvvg8-1-14-15 GC Column ID: ZB-1

VER Data Filename: 150114E1 S#6 Analysis Date: 14-JAN-15 Time: 18:00:03

ANALYTES	ION	QC	PASS	CONC.	CONC.
	ABUND.	LIMITS		FOUND	RANGE
	RATIO				(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: DM S

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)	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-169	1.25	1.05-1.43	y	99.0	50 - 145
13C-PCB-3	3.55	2.66-3.60	y	100.5	50.0-145	13C-PCB-188	0.46	0.38-0.52	y	99.7	50 - 145
13C-PCB-4	1.59	1.33-1.79	y	104.5	50.0-145	13C-PCB-180	0.46	0.38-0.52	y	100.0	50 - 145
13C-PCB-9	1.58	1.33-1.79	y	102.4	50.0-145	13C-PCB-170	0.47	0.38-0.52	y	98.2	50 - 145
13C-PCB-11	1.57	1.33-1.79	y	100.8	50.0-145	13C-PCB-189	0.45	0.38-0.52	y	97.3	50 - 145
13C-PCB-19	1.10	0.88-1.20	y	99.4	50.0-145	13C-PCB-202	0.89	0.76-1.02	y	101.0	50 - 145
13C-PCB-32	1.10	0.88-1.20	y	99.7	50.0-145	13C-PCB-194	0.90	0.76-1.02	y	100.0	50 - 145
13C-PCB-28	1.03	0.88-1.20	y	113.1	50.0-145	13C-PCB-208	0.77	0.65-0.89	y	102.9	50 - 145
13C-PCB-37	1.04	0.88-1.20	y	103.7	50.0-145	13C-PCB-206	0.77	0.65-0.89	y	99.6	50 - 145
13C-PCB-54	0.78	0.65-0.89	y	108.1	50.0-145	13C-PCB-209	1.18	0.99-1.33	y	105.5	50 - 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	CRS vs. RS					
13C-PCB-123	1.61	1.32-1.78	y	99.1	50.0-145	13C-PCB-79	0.77	0.65-0.89	y	97.0	75 - 125
13C-PCB-118	1.60	1.32-1.78	y	99.9	50.0-145	13C-PCB-178	0.45	0.38-0.52	y	98.8	75 - 125
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						

Analyst: DMS

Date: 1/20/15

Client ID: PCB CS3 14L1801
Lab ID: ST150114E1-5

Filename: 150114E1 S:6 Acq:14-JAN-15 18:00:03
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	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-52/69	8.00e+07	0.74	y	1.29	31:35	1.001	0.996-1.006	93.0967
PCB-2	8.02e+07	2.99	y	1.30	18:33	0.988	0.983-0.993	54.7140	PCB-73	4.72e+07	0.75	y	1.41	31:42	1.005	0.999-1.009	50.2177
PCB-3	8.03e+07	2.98	y	1.30	18:47	1.001	0.996-1.006	54.6072	PCB-43/49	7.08e+07	0.73	y	1.14	31:52	1.010	1.005-1.015	93.3696
PCB-4/10	1.30e+08	1.64	y	1.67	20:10	1.002	0.997-1.007	93.0306	PCB-47	3.98e+07	0.74	y	1.20	32:04	1.001	0.996-1.006	45.5825
PCB-7/9	1.56e+08	1.63	y	1.25	21:57	0.868	0.864-0.872	94.4847	PCB-48/75	8.76e+07	0.73	y	1.33	32:11	1.004	0.999-1.009	90.7089
PCB-6	7.76e+07	1.65	y	1.24	22:35	0.893	0.888-0.897	47.5758	PCB-65	4.12e+07	0.73	y	1.32	32:26	1.012	1.007-1.017	42.9478
PCB-5/8	1.55e+08	1.64	y	1.27	23:00	0.910	0.905-0.915	92.4994	PCB-62	4.67e+07	0.74	y	1.36	32:33	1.016	1.011-1.021	47.2058
PCB-14	9.12e+07	1.64	y	1.47	24:06	0.953	0.948-0.958	48.1061	PCB-44	2.93e+07	0.74	y	0.87	32:51	1.025	1.020-1.030	46.1675
PCB-11	7.80e+07	1.68	y	1.28	25:17	1.000	0.995-1.005	47.0854	PCB-42/59	7.65e+07	0.74	y	1.24	33:05	1.032	1.027-1.037	85.0074
PCB-12/13	1.55e+08	1.65	y	1.27	25:41	1.016	1.011-1.021	94.5607	PCB-41/64/71/72	1.66e+08	0.73	y	1.34	33:40	1.050	1.045-1.055	170.423
PCB-15	8.75e+07	1.65	y	1.44	26:00	1.028	1.023-1.031	47.1177	PCB-68	4.72e+07	0.73	y	1.61	33:56	1.059	1.053-1.063	40.2479
PCB-19	4.22e+07	1.06	y	1.18	24:17	1.001	0.996-1.006	47.5975	PCB-40	2.55e+07	0.73	y	0.86	34:09	1.066	1.061-1.071	40.7920
PCB-30	6.72e+07	1.05	y	1.87	25:11	1.038	1.033-1.043	47.8879	PCB-57	4.47e+07	0.74	y	1.12	34:30	0.970	0.965-0.975	46.0101
PCB-18	4.67e+07	1.06	y	0.89	25:55	0.954	0.949-0.959	47.7748	PCB-67	4.34e+07	0.73	y	1.09	34:49	0.979	0.974-0.984	45.9086
PCB-17	5.08e+07	1.05	y	0.96	26:06	0.961	0.956-0.966	48.1501	PCB-58	4.85e+07	0.76	y	1.14	34:55	0.982	0.977-0.987	49.2155
PCB-24/27	1.36e+08	1.06	y	1.30	26:40	0.982	0.977-0.987	95.1310	PCB-63	4.77e+07	0.71	y	1.16	35:05	0.986	0.981-0.991	47.3221
PCB-16/32	1.08e+08	1.05	y	1.05	27:11	1.001	0.996-1.006	93.2649	PCB-74	4.68e+07	0.74	y	1.21	35:22	0.994	0.989-0.999	44.4585
PCB-34	5.36e+07	1.01	y	1.30	27:58	0.960	0.955-0.965	45.6626	PCB-61/70	9.06e+07	0.73	y	1.13	35:33	1.000	0.995-1.005	92.8240
PCB-23	5.23e+07	1.06	y	1.21	28:04	0.963	0.958-0.968	47.8931	PCB-76/66	9.21e+07	0.74	y	1.18	35:46	1.006	1.000-1.010	90.0496
PCB-29	4.77e+07	1.01	y	1.21	28:19	0.972	0.967-0.977	43.6736	PCB-80	5.39e+07	0.74	y	1.32	36:00	1.000	0.995-1.005	45.2354
PCB-26	5.01e+07	1.00	y	1.24	28:31	0.979	0.974-0.984	44.8563	PCB-55	5.08e+07	0.74	y	1.23	36:19	1.009	1.004-1.014	45.9074
PCB-25	4.54e+07	1.01	y	1.10	28:41	0.985	0.980-0.990	45.8240	PCB-56/60	8.80e+07	0.73	y	1.11	36:49	1.023	1.018-1.028	88.4456
PCB-31	5.13e+07	1.03	y	1.25	29:03	0.997	0.992-1.002	45.3770	PCB-79	4.65e+07	0.73	y	1.16	37:53	1.053	1.048-1.058	44.5110
PCB-28	4.84e+07	1.04	y	1.24	29:09	1.001	0.996-1.006	43.3229	PCB-78	4.56e+07	0.74	y	1.18	38:34	0.987	0.982-0.992	43.6493
PCB-20/21/33	1.42e+08	1.02	y	1.16	29:45	1.021	1.016-1.026	136.238	PCB-81	5.20e+07	0.75	y	1.29	39:06	1.000	0.995-1.005	45.4820
PCB-22	4.91e+07	1.03	y	1.16	30:12	1.037	1.032-1.042	46.7230	PCB-77	5.01e+07	0.76	y	1.29	39:42	1.001	0.995-1.005	45.6501
PCB-36	5.22e+07	1.05	y	1.30	30:49	0.934	0.929-0.939	53.8213	PCB-104	4.01e+07	1.59	y	1.26	32:44	1.001	0.996-1.006	45.8646
PCB-39	4.78e+07	1.05	y	1.26	31:17	0.948	0.943-0.953	50.8404	PCB-96	3.32e+07	1.56	y	1.09	33:59	1.039	1.034-1.044	43.9315
PCB-38	4.87e+07	1.03	y	1.24	32:04	0.972	0.967-0.977	52.5442	PCB-103	2.97e+07	1.54	y	0.97	34:31	1.056	1.051-1.061	44.3834
PCB-35	4.75e+07	1.03	y	1.26	32:34	0.987	0.982-0.992	50.7102	PCB-100	3.02e+07	1.57	y	0.96	34:52	1.066	1.061-1.071	45.2813
PCB-37	4.79e+07	1.08	y	1.35	33:01	1.001	0.996-1.006	47.5517	PCB-94	2.48e+07	1.56	y	1.13	35:20	0.985	0.980-0.990	46.7663
PCB-54	4.77e+07	0.74	y	1.02	28:02	1.001	0.996-1.006	46.5543	PCB-95/98/102	8.16e+07	1.52	y	1.29	35:50	0.999	0.994-1.004	134.832
PCB-50	3.65e+07	0.72	y	0.78	29:12	1.042	1.037-1.047	46.9035	PCB-93	2.65e+07	1.68	y	1.06	35:58	1.003	0.998-1.008	53.0450
PCB-53	3.64e+07	0.75	y	1.14	29:51	0.946	0.941-0.951	48.0525	PCB-88/91	5.25e+07	1.56	y	1.12	36:15	1.011	1.006-1.016	99.4803
PCB-51	3.70e+07	0.72	y	1.16	30:11	0.957	0.952-0.962	47.8251	PCB-121	3.67e+07	1.57	y	1.76	36:22	1.014	1.009-1.019	44.4163
PCB-45	3.37e+07	0.73	y	1.04	30:37	0.970	0.965-0.975	48.6868	PCB-84/92	5.15e+07	1.54	y	1.07	37:11	0.990	0.985-0.995	97.0520
PCB-46	2.89e+07	0.73	y	0.95	31:06	0.986	0.981-0.991	45.7766	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
Lab ID: ST150114E1-5

Filename: 150114E1 S:6 Acq:14-JAN-15 18:00:03 ConCal: NA
GC Column ID: ZB-1 ICal: pcbvg8-1-14-15 wt/vol: 1.0000 EndCAL: NA

Page 1 of

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	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-133/142	5.46e+07	1.24	y	0.91	42:29	0.982	0.977-0.987	93.0668
PCB-113	3.44e+07	1.55	y	1.34	37:48	1.007	1.002-1.012	51.7174	PCB-131	2.55e+07	1.16	y	0.85	42:38	0.986	0.981-0.991	46.7153
PCB-99	2.56e+07	1.60	y	1.25	37:54	1.009	1.004-1.014	41.4323	PCB-146/165	6.52e+07	1.22	y	1.08	42:51	0.991	0.986-0.996	93.4865
PCB-119	3.83e+07	1.56	y	1.88	38:21	0.987	0.982-0.992	46.9690	PCB-132/161	6.70e+07	1.22	y	1.12	43:06	0.997	0.992-1.002	92.8456
PCB-108/112	5.74e+07	1.56	y	1.41	38:30	0.991	0.986-0.996	94.2376	PCB-153	3.34e+07	1.21	y	1.20	43:17	1.001	0.996-1.006	43.2433
PCB-83	3.43e+07	1.57	y	1.66	38:40	0.995	0.990-1.000	47.6313	PCB-168	4.08e+07	1.22	y	1.36	43:29	1.005	1.000-1.010	46.6695
PCB-97	2.60e+07	1.55	y	1.30	38:52	1.000	0.995-1.005	46.2488	PCB-141	2.90e+07	1.22	y	1.16	44:00	1.000	0.995-1.005	45.4172
PCB-86	2.15e+07	1.46	y	1.03	39:00	1.004	0.999-1.009	47.9826	PCB-137	2.95e+07	1.18	y	1.18	44:24	1.009	1.004-1.014	45.3841
B-87/117/125	9.85e+07	1.59	y	1.59	39:08	1.007	1.002-1.012	142.777	PCB-130	2.45e+07	1.21	y	0.92	44:29	1.011	1.006-1.016	48.1957
PCB-111/115	7.67e+07	1.56	y	1.86	39:17	1.011	1.006-1.016	95.2753	PCB-138/163/164	1.05e+08	1.21	y	1.38	44:52	1.001	0.996-1.006	137.688
PCB-85/116	5.77e+07	1.60	y	1.39	39:25	1.015	1.010-1.020	95.6148	PCB-158/160	7.63e+07	1.22	y	1.48	45:06	1.006	1.001-1.011	93.2016
PCB-120	3.97e+07	1.53	y	1.99	39:39	1.021	1.016-1.026	46.1066	PCB-129	2.45e+07	1.20	y	0.99	45:21	1.012	1.007-1.017	44.6385
PCB-110	3.50e+07	1.56	y	1.70	39:47	1.024	1.019-1.029	47.4714	PCB-166	3.59e+07	1.21	y	1.14	45:48	0.993	0.988-0.998	46.5698
PCB-82	2.08e+07	1.56	y	0.74	40:25	0.976	0.971-0.981	48.9430	PCB-159	3.96e+07	1.22	y	1.22	46:08	1.000	0.995-1.005	47.9497
PCB-124	3.69e+07	1.57	y	1.30	41:06	0.993	0.988-0.998	49.3629	PCB-128/162	6.57e+07	1.20	y	1.03	46:25	1.007	1.002-1.012	94.0179
PCB-107/109	6.93e+07	1.58	y	1.34	41:15	0.996	0.991-1.001	90.5539	PCB-167	3.85e+07	1.17	y	1.18	46:49	1.000	0.995-1.005	46.3110
PCB-123	3.47e+07	1.55	y	1.25	41:25	1.000	0.995-1.005	48.3609	PCB-156	3.93e+07	1.19	y	1.27	48:07	1.000	0.995-1.005	46.6553
- PCB-106/118	7.35e+07	1.54	y	1.29	41:38	1.001	0.996-1.006	92.8153	PCB-157	3.97e+07	1.21	y	1.22	48:23	1.000	0.995-1.005	46.2329
- PCB-114	4.27e+07	1.62	y	1.45	42:15	1.000	0.995-1.005	46.8884	PCB-169	3.46e+07	1.20	y	1.07	50:32	1.000	0.995-1.005	47.2196
PCB-122	3.51e+07	1.63	y	1.22	42:23	1.004	0.999-1.009	45.9413	PCB-188	3.60e+07	1.06	y	1.52	42:55	1.001	0.996-1.006	46.9710
PCB-105	4.36e+07	1.65	y	1.56	43:07	1.000	0.995-1.005	47.0955	PCB-184	3.21e+07	1.05	y	1.34	43:21	1.011	1.006-1.016	47.6292
PCB-127	3.79e+07	1.69	y	1.31	43:27	1.000	0.995-1.005	47.5187	PCB-179	3.36e+07	1.03	y	1.39	44:08	1.029	1.024-1.034	47.9352
PCB-126	3.67e+07	1.64	y	1.41	45:20	1.000	0.995-1.005	49.2617	PCB-176	3.52e+07	1.04	y	1.45	44:36	1.040	1.035-1.045	48.0468
PCB-155	3.43e+07	1.23	y	1.20	37:07	1.001	0.966-1.006	46.8420	PCB-186	3.45e+07	1.05	y	1.46	45:12	1.054	1.049-1.059	46.9300
PCB-150	3.11e+07	1.24	y	1.13	38:22	1.035	1.030-1.040	45.1927	PCB-178	2.51e+07	1.06	y	1.07	45:42	1.066	1.061-1.071	46.3910
PCB-152	3.16e+07	1.25	y	1.17	38:51	1.048	1.043-1.053	44.2320	PCB-175	2.54e+07	1.06	y	1.05	46:03	1.074	1.069-1.079	48.0617
PCB-145	3.04e+07	1.24	y	1.09	39:18	1.060	1.055-1.065	45.5249	PCB-182/187	5.34e+07	1.05	y	1.14	46:13	1.078	1.073-1.083	93.2941
PCB-136	3.31e+07	1.23	y	1.14	39:37	1.068	1.063-1.073	47.5060	PCB-183	2.93e+07	1.04	y	1.22	46:32	1.085	1.080-1.090	47.4465
PCB-148	2.18e+07	1.24	y	0.82	39:43	1.071	1.066-1.076	43.6154	PCB-185	2.52e+07	1.05	y	1.40	47:11	0.955	0.950-0.960	47.6023
PCB-154	2.45e+07	1.23	y	0.89	40:12	1.084	1.079-1.089	45.0618	PCB-174	2.35e+07	1.05	y	1.29	47:33	0.963	0.958-0.968	48.4673
PCB-151	2.30e+07	1.25	y	0.82	40:51	1.102	1.097-1.107	46.1089	PCB-181	2.45e+07	1.08	y	1.35	47:40	0.965	0.960-0.970	48.2534
PCB-135	2.19e+07	1.23	y	0.80	41:04	1.107	1.101-1.113	45.0763	PCB-177	2.19e+07	1.04	y	1.27	47:49	0.968	0.963-0.973	45.9044
PCB-144	2.39e+07	1.33	y	0.86	41:10	1.110	1.105-1.116	45.7102	PCB-171	2.53e+07	1.05	y	1.46	48:07	0.974	0.969-0.979	46.0900
PCB-147	2.07e+07	1.15	y	0.78	41:18	1.114	1.108-1.120	43.6051	PCB-173	2.04e+07	1.04	y	1.10	48:33	0.983	0.978-0.988	48.9835
PCB-139/149	4.69e+07	1.23	y	0.87	41:34	1.121	1.115-1.127	88.2749	PCB-172	2.39e+07	1.04	y	1.35	49:00	0.992	0.987-0.997	46.7746
- PCB-140	2.12e+07	1.24	y	0.78	41:45	1.126	1.120-1.132	44.7555	PCB-192	3.03e+07	1.05	y	1.74	49:12	0.996	0.991-1.001	46.2733
- PCB-134/143	5.52e+07	1.22	y	0.93	42:11	0.975	0.970-0.980	91.8432	PCB-180	2.48e+07	1.03	y	1.45	49:24	1.000	0.995-1.005	45.3976

Integrations

by

RL: MONO, TRI - DECA: _____

Analyst: DMS

Date: 1/16/15

Client ID: PCB CS3 14L1801
Lab ID: ST150114E1-5

Filename: 150114E1 S:6 Acq:14-JAN-15 18:00:03
GC Column ID: ZB-1 ICal: pcbvg8-1-14-15 wt/vol: 1.0000
ConCal: NA
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
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
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
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
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
Lab ID: ST150114E1-5

Filename: 150114E1 S:6 Acq:14-JAN-15 18:00:03
GC Column ID: ZB-1 ICal: pcbvg8-1-14-15 wt/vol:1.0000

ConCal: NA
EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	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-79	8.64e+07	0.77 y	1.02	37:51	1.029	1.024-1.033		97.0	97.0
13C-PCB-4	8.37e+07	1.59 y	0.60	20:07	0.774	0.770-0.778		104	104		13C-PCB-178	3.14e+07	0.45 y	0.64	45:41	0.985	0.980-0.989		98.8	98.8
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	PS vs. IS										
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-79	8.64e+07	0.77 y	1.02	37:51	0.968	0.963-0.973		95.2	95.2
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-178	3.14e+07	0.45 y	0.84	45:41	0.925	0.920-0.930		98.7	98.7
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	RS										
13C-PCB-97	4.33e+07	1.65 y	0.66	38:51	0.989	0.984-0.994		100	100		Name	Resp	RA	RRF	RT	Conc				
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-15	1.34e+08	1.56 y	1.00	25:59	100				
13C-PCB-104	6.91e+07	1.61 y	0.97	32:42	0.832	0.828-0.836		109	109		13C-PCB-31	7.47e+07	1.02 y	1.00	29:01	100				
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-60	8.72e+07	0.74 y	1.00	36:48	100				
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-111	6.56e+07	1.64 y	1.00	39:17	100				
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-128	4.99e+07	1.27 y	1.00	46:24	100				
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-205	4.76e+07	0.89 y	1.00	54:12	100				
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											

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	ST150116E1-2	dms	16-JAN-15	08:51:27	NA	NA

Run: 140623E2

Analyte: PCBNEW

Cal: PCBVG8-6-23-14

Inst. ID: VG R

Data filename: 140623E2

Name	Mean RRF	%RSD	Samp# 1	Samp# 2	Samp# 3	Samp# 4	Samp# 5	Samp# 6
			0.25	1.0	2.5	50	400	750
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	1.60	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	0.89	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-82	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 η	Total Mono-PCB	0.00	-	- n	-	-	1.15
170	Tot η	Total Di-PCB	0.00	-	- n	-	-	1.19

171	Tot	η	Total Tri-PCB	0.00	-	-	n	-	-	1.06
172	Tot	η	Total Tri-PCB	0.00	-	-	n	-	-	1.33
173	Tot	η	Total Tetra-PCB	0.00	-	-	n	-	-	1.14
174	Tot	η	Total Penta-PCB	0.00	-	-	n	-	-	1.18
175	Tot	η	Total Penta-PCB	0.00	-	-	n	-	-	1.28
176	Tot	η	Total Hexa-PCB	0.00	-	-	n	-	-	0.90
177	Tot	η	Total Hexa-PCB	0.00	-	-	n	-	-	1.13
178	Tot	η	Total Hepta-PCB	0.00	-	-	n	-	-	1.41
179	Tot	η	Total Octa-PCB	0.00	-	-	n	-	-	0.92
180	Tot	η	Total Octa-PCB	0.00	-	-	n	-	-	1.33
181	Tot	η	Total Nona-PCB	0.00	-	-	n	-	-	1.03
182	Tot	η	Total Deca-PCB	0.25	1.20e+05	1.18	y	56:37	-	1.15
183	Mono	η	13C-PCB-1	100.00	1.84e+08	3.30	y	16:23	-	1.00
184	Mono	η	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	-η	13C-PCB-19	100.00	1.07e+08	1.08	y	24:13	-	0.58
189	Tri	-η	13C-PCB-32	100.00	1.60e+08	1.07	y	27:05	-	0.87
190	Tri	-η	13C-PCB-28	100.00	1.55e+08	1.06	y	29:00	-	0.92
191	Tri	-η	13C-PCB-37	100.00	1.46e+08	1.07	y	32:51	-	0.87
192	Tetr	η	13C-PCB-54	100.00	1.29e+08	0.80	y	27:54	-	0.96
193	Tetr	η	13C-PCB-52	100.00	1.08e+08	0.80	y	31:23	-	0.80
194	Tetr	η	13C-PCB-47	100.00	1.14e+08	0.80	y	31:53	-	0.85
195	Tetr	η	13C-PCB-70	100.00	1.38e+08	0.80	y	35:24	-	1.03
196	Tetr	η	13C-PCB-80	100.00	1.41e+08	0.80	y	35:48	-	1.05
197	Tetr	η	13C-PCB-81	100.00	1.22e+08	0.80	y	38:55	-	0.91
198	Tetr	η	13C-PCB-77	100.00	1.28e+08	0.80	y	39:31	-	0.95
199	Pent	η	13C-PCB-104	100.00	9.53e+07	1.55	y	32:33	-	1.02
200	Pent	η	13C-PCB-95	100.00	6.94e+07	1.58	y	35:42	-	0.74
201	Pent	η	13C-PCB-101	100.00	7.42e+07	1.61	y	37:22	-	0.79
202	Pent	η	13C-PCB-97	100.00	6.72e+07	1.62	y	38:40	-	0.72
203	Pent	η	13C-PCB-123	100.00	8.66e+07	1.59	y	41:15	-	0.92
204	Pent	η	13C-PCB-118	100.00	9.00e+07	1.59	y	41:25	-	0.96
205	Pent	η	13C-PCB-114	100.00	9.79e+07	1.62	y	42:05	-	1.33
206	Pent	η	13C-PCB-105	100.00	9.84e+07	1.62	y	42:57	-	1.34
207	Pent	η	13C-PCB-127	100.00	1.04e+08	1.60	y	43:17	-	1.42
208	Pent	η	13C-PCB-126	100.00	9.44e+07	1.59	y	45:11	-	1.29
209	Hexa	η	13C-PCB-155	100.00	8.36e+07	1.29	y	36:55	-	0.89
210	Hexa	η	13C-PCB-153	100.00	8.47e+07	1.26	y	43:06	-	1.15
211	Hexa	η	13C-PCB-141	100.00	7.81e+07	1.26	y	43:50	-	1.07
212	Hexa	η	13C-PCB-138	100.00	8.05e+07	1.27	y	44:41	-	1.10
213	Hexa	η	13C-PCB-159	100.00	9.21e+07	1.27	y	45:58	-	1.26
214	Hexa	η	13C-PCB-167	100.00	9.97e+07	1.26	y	46:40	-	1.36
215	Hexa	η	13C-PCB-156	100.00	9.50e+07	1.29	y	47:58	-	1.30
216	Hexa	η	13C-PCB-157	100.00	1.00e+08	1.32	y	48:14	-	1.37
217	Hexa	η	13C-PCB-169	100.00	9.71e+07	1.27	y	50:19	-	1.32
218	Hept	η	13C-PCB-188	100.00	7.00e+07	0.47	y	42:44	-	0.95
219	Hept	η	13C-PCB-180	100.00	5.49e+07	0.46	y	49:15	-	0.75
220	Hept	η	13C-PCB-170	100.00	4.33e+07	0.46	y	50:40	-	0.59
221	Hept	η	13C-PCB-189	100.00	5.61e+07	0.46	y	52:07	-	0.77

222	Octaη	13C-PCB-202	100.00	6.86e+07	0.93 y	48:10	-	0.94
223	Octaη	13C-PCB-194	100.00	5.37e+07	0.93 y	53:37	-	0.79
224	Nonaη	13C-PCB-208	100.00	7.40e+07	0.78 y	52:53	-	1.09
225	Nonaη	13C-PCB-206	100.00	4.38e+07	0.78 y	55:20	-	0.65
226	Decaη	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-η	13C-PCB-31	100.00	1.69e+08	1.07 y	28:54	-	1.00
229	Tetrη	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	Hexaη	13C-PCB-128	100.00	7.33e+07	1.25 y	46:16	-	1.00

232	Octaπ	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 η	Total Mono-PCB	0.00	-	- n	-	-	1.21
170	Tot η	Total Di-PCB	0.00	-	- n	-	-	1.18
171	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.08

172	Tot	η	Total Tri-PCB	0.00	-	-	n	-	-	-	1.23
173	Tot	η	Total Tetra-PCB	0.00	-	-	n	-	-	-	1.10
174	Tot	η	Total Penta-PCB	0.00	-	-	n	-	-	-	1.16
175	Tot	η	Total Penta-PCB	0.00	-	-	n	-	-	-	1.24
176	Tot	η	Total Hexa-PCB	0.00	-	-	n	-	-	-	0.87
177	Tot	η	Total Hexa-PCB	0.00	-	-	n	-	-	-	1.08
178	Tot	η	Total Hepta-PCB	0.00	-	-	n	-	-	-	1.40
179	Tot	η	Total Octa-PCB	0.00	-	-	n	-	-	-	0.93
180	Tot	η	Total Octa-PCB	0.00	-	-	n	-	-	-	1.31
181	Tot	η	Total Nona-PCB	0.00	-	-	n	-	-	-	1.00
182	Tot	η	Total Deca-PCB	1.00	4.74e+05	1.30	y	56:37	-	-	1.12
183	Mono	η	13C-PCB-1	100.00	1.69e+08	3.26	y	16:23	-	-	0.92
184	Mono	η	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	-η	13C-PCB-19	100.00	1.03e+08	1.08	y	24:13	-	-	0.56
189	Tri	-η	13C-PCB-32	100.00	1.51e+08	1.08	y	27:05	-	-	0.82
190	Tri	-η	13C-PCB-28	100.00	1.49e+08	1.05	y	29:01	-	-	0.91
191	Tri	-η	13C-PCB-37	100.00	1.36e+08	1.07	y	32:51	-	-	0.84
192	Tetr	η	13C-PCB-54	100.00	1.25e+08	0.80	y	27:55	-	-	0.96
193	Tetr	η	13C-PCB-52	100.00	1.00e+08	0.79	y	31:24	-	-	0.77
194	Tetr	η	13C-PCB-47	100.00	1.04e+08	0.79	y	31:54	-	-	0.80
195	Tetr	η	13C-PCB-70	100.00	1.29e+08	0.80	y	35:24	-	-	0.99
196	Tetr	η	13C-PCB-80	100.00	1.33e+08	0.79	y	35:49	-	-	1.02
197	Tetr	η	13C-PCB-81	100.00	1.18e+08	0.79	y	38:55	-	-	0.91
198	Tetr	η	13C-PCB-77	100.00	1.20e+08	0.79	y	39:30	-	-	0.93
199	Pent	η	13C-PCB-104	100.00	9.09e+07	1.57	y	32:33	-	-	1.02
200	Pent	η	13C-PCB-95	100.00	6.52e+07	1.56	y	35:42	-	-	0.73
201	Pent	η	13C-PCB-101	100.00	7.00e+07	1.57	y	37:22	-	-	0.79
202	Pent	η	13C-PCB-97	100.00	6.28e+07	1.60	y	38:40	-	-	0.71
203	Pent	η	13C-PCB-123	100.00	8.04e+07	1.57	y	41:15	-	-	0.90
204	Pent	η	13C-PCB-118	100.00	8.60e+07	1.62	y	41:25	-	-	0.97
205	Pent	η	13C-PCB-114	100.00	9.51e+07	1.64	y	42:05	-	-	1.33
206	Pent	η	13C-PCB-105	100.00	9.62e+07	1.60	y	42:57	-	-	1.34
207	Pent	η	13C-PCB-127	100.00	1.06e+08	1.61	y	43:17	-	-	1.48
208	Pent	η	13C-PCB-126	100.00	9.30e+07	1.60	y	45:11	-	-	1.30
209	Hexa	η	13C-PCB-155	100.00	7.57e+07	1.27	y	36:55	-	-	0.85
210	Hexa	η	13C-PCB-153	100.00	8.33e+07	1.30	y	43:06	-	-	1.16
211	Hexa	η	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	η	13C-PCB-159	100.00	9.11e+07	1.28	y	45:59	-	-	1.27
214	Hexa	η	13C-PCB-167	100.00	9.84e+07	1.27	y	46:40	-	-	1.37
215	Hexa	η	13C-PCB-156	100.00	9.34e+07	1.28	y	47:58	-	-	1.30
216	Hexa	η	13C-PCB-157	100.00	9.73e+07	1.29	y	48:14	-	-	1.36
217	Hexa	η	13C-PCB-169	100.00	9.18e+07	1.27	y	50:19	-	-	1.28
218	Hept	η	13C-PCB-188	100.00	6.44e+07	0.46	y	42:44	-	-	0.90
219	Hept	η	13C-PCB-180	100.00	5.02e+07	0.46	y	49:15	-	-	0.70
220	Hept	η	13C-PCB-170	100.00	4.02e+07	0.48	y	50:40	-	-	0.56
221	Hept	η	13C-PCB-189	100.00	5.29e+07	0.47	y	52:06	-	-	0.74
222	Octa	η	13C-PCB-202	100.00	6.22e+07	0.90	y	48:10	-	-	0.87

223	Octaη	13C-PCB-194	100.00	5.51e+07	0.92 y	53:37	-	0.81
224	Nonaη	13C-PCB-208	100.00	7.43e+07	0.77 y	52:53	-	1.09
225	Nonaη	13C-PCB-206	100.00	4.47e+07	0.79 y	55:19	-	0.66
226	Decaη	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-η	13C-PCB-31	100.00	1.63e+08	1.05 y	28:54	-	1.00
229	Tetraη	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	Hexaη	13C-PCB-128	100.00	7.17e+07	1.30 y	46:16	-	1.00
232	Octaη	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 η	Total Mono-PCB	0.00	-	- n	-	-	1.24
170	Tot η	Total Di-PCB	0.00	-	- n	-	-	1.20
171	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.09

172	Tot	η	Total Tri-PCB	0.00	-	- n	-	-	1.24
173	Tot	η	Total Tetra-PCB	0.00	-	- n	-	-	1.08
174	Tot	η	Total Penta-PCB	0.00	-	- n	-	-	1.17
175	Tot	η	Total Penta-PCB	0.00	-	- n	-	-	1.26
176	Tot	η	Total Hexa-PCB	0.00	-	- n	-	-	0.88
177	Tot	η	Total Hexa-PCB	0.00	-	- n	-	-	1.10
178	Tot	η	Total Hepta-PCB	0.00	-	- n	-	-	1.42
179	Tot	η	Total Octa-PCB	0.00	-	- n	-	-	0.95
180	Tot	η	Total Octa-PCB	0.00	-	- n	-	-	1.32
181	Tot	η	Total Nona-PCB	0.00	-	- n	-	-	0.98
182	Tot	η	Total Deca-PCB	2.50	1.17e+06	1.22 y	56:39	-	1.17
183	Mono	η	13C-PCB-1	100.00	1.61e+08	3.34 y	16:23	-	0.91
184	Mono	η	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-η		13C-PCB-19	100.00	9.81e+07	1.09 y	24:13	-	0.56
189	Tri-η		13C-PCB-32	100.00	1.41e+08	1.10 y	27:05	-	0.80
190	Tri-η		13C-PCB-28	100.00	1.45e+08	1.05 y	29:00	-	0.93
191	Tri-η		13C-PCB-37	100.00	1.23e+08	1.05 y	32:51	-	0.79
192	Tetrη		13C-PCB-54	100.00	1.19e+08	0.80 y	27:55	-	0.97
193	Tetrη		13C-PCB-52	100.00	9.54e+07	0.79 y	31:24	-	0.77
194	Tetrη		13C-PCB-47	100.00	9.99e+07	0.78 y	31:53	-	0.81
195	Tetrη		13C-PCB-70	100.00	1.22e+08	0.79 y	35:24	-	0.99
196	Tetrη		13C-PCB-80	100.00	1.26e+08	0.79 y	35:48	-	1.02
197	Tetrη		13C-PCB-81	100.00	1.13e+08	0.80 y	38:55	-	0.92
198	Tetrη		13C-PCB-77	100.00	1.13e+08	0.81 y	39:31	-	0.92
199	Pentη		13C-PCB-104	100.00	8.51e+07	1.58 y	32:33	-	1.01
200	Pentη		13C-PCB-95	100.00	6.16e+07	1.60 y	35:42	-	0.73
201	Pentη		13C-PCB-101	100.00	6.46e+07	1.61 y	37:22	-	0.77
202	Pentη		13C-PCB-97	100.00	5.95e+07	1.56 y	38:40	-	0.71
203	Pentη		13C-PCB-123	100.00	7.57e+07	1.60 y	41:14	-	0.90
204	Pentη		13C-PCB-118	100.00	7.96e+07	1.58 y	41:25	-	0.95
205	Pentη		13C-PCB-114	100.00	9.23e+07	1.63 y	42:05	-	1.35
206	Pentη		13C-PCB-105	100.00	9.25e+07	1.61 y	42:57	-	1.36
207	Pentη		13C-PCB-127	100.00	1.01e+08	1.61 y	43:17	-	1.48
208	Pentη		13C-PCB-126	100.00	8.91e+07	1.60 y	45:11	-	1.31
209	Hexaη		13C-PCB-155	100.00	7.08e+07	1.28 y	36:55	-	0.84
210	Hexaη		13C-PCB-153	100.00	7.84e+07	1.29 y	43:06	-	1.15
211	Hexaη		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	Hexaη		13C-PCB-159	100.00	8.52e+07	1.28 y	45:58	-	1.25
214	Hexaη		13C-PCB-167	100.00	9.23e+07	1.29 y	46:40	-	1.35
215	Hexaη		13C-PCB-156	100.00	8.80e+07	1.30 y	47:58	-	1.29
216	Hexaη		13C-PCB-157	100.00	9.23e+07	1.29 y	48:14	-	1.35
217	Hexaη		13C-PCB-169	100.00	8.83e+07	1.28 y	50:19	-	1.29
218	Heptη		13C-PCB-188	100.00	6.20e+07	0.47 y	42:44	-	0.91
219	Heptη		13C-PCB-180	100.00	4.56e+07	0.47 y	49:15	-	0.67
220	Heptη		13C-PCB-170	100.00	3.64e+07	0.46 y	50:40	-	0.53
221	Heptη		13C-PCB-189	100.00	4.86e+07	0.48 y	52:07	-	0.71
222	Octaη		13C-PCB-202	100.00	5.66e+07	0.90 y	48:10	-	0.83

223	Octaη	13C-PCB-194	100.00	5.12e+07	0.92 y	53:38	-	0.80
224	Nonaη	13C-PCB-208	100.00	6.94e+07	0.78 y	52:53	-	1.09
225	Nonaη	13C-PCB-206	100.00	4.16e+07	0.79 y	55:20	-	0.65
226	Decaη	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-η	13C-PCB-31	100.00	1.55e+08	1.05 y	28:54	-	1.00
229	Tetrη	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	Hexaη	13C-PCB-128	100.00	6.82e+07	1.27 y	46:16	-	1.00
232	Octaη	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	-	0.51
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 η	Total Mono-PCB	0.00	-	- n	-	-	1.31
170	Tot η	Total Di-PCB	0.00	-	- n	-	-	1.21
171	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.10

172	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.21
173	Tot η	Total Tetra-PCB	0.00	-	- n	-	-	1.06
174	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.18
175	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.23
176	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	0.88
177	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	1.09
178	Tot η	Total Hepta-PCB	0.00	-	- n	-	-	1.41
179	Tot η	Total Octa-PCB	0.00	-	- n	-	-	0.96
180	Tot η	Total Octa-PCB	0.00	-	- n	-	-	1.32
181	Tot η	Total Nona-PCB	0.00	-	- n	-	-	1.00
182	Tot η	Total Deca-PCB	50.00	2.30e+07	1.21 y	56:38	-	1.20
183	Monoη	13C-PCB-1	100.00	1.53e+08	3.37 y	16:24	-	0.86
184	Monoη	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-η	13C-PCB-19	100.00	9.46e+07	1.07 y	24:14	-	0.53
189	Tri-η	13C-PCB-32	100.00	1.39e+08	1.09 y	27:06	-	0.78
190	Tri-η	13C-PCB-28	100.00	1.40e+08	1.06 y	29:01	-	0.92
191	Tri-η	13C-PCB-37	100.00	1.20e+08	1.07 y	32:52	-	0.79
192	Tetrη	13C-PCB-54	100.00	1.23e+08	0.81 y	27:55	-	0.98
193	Tetrη	13C-PCB-52	100.00	9.72e+07	0.80 y	31:24	-	0.78
194	Tetrη	13C-PCB-47	100.00	1.02e+08	0.79 y	31:54	-	0.82
195	Tetrη	13C-PCB-70	100.00	1.22e+08	0.78 y	35:25	-	0.98
196	Tetrη	13C-PCB-80	100.00	1.27e+08	0.80 y	35:49	-	1.01
197	Tetrη	13C-PCB-81	100.00	1.12e+08	0.79 y	38:56	-	0.89
198	Tetη	13C-PCB-77	100.00	1.14e+08	0.78 y	39:32	-	0.91
199	Pentη	13C-PCB-104	100.00	8.52e+07	1.57 y	32:34	-	1.00
200	Pentη	13C-PCB-95	100.00	6.27e+07	1.59 y	35:43	-	0.74
201	Pentη	13C-PCB-101	100.00	6.57e+07	1.54 y	37:23	-	0.77
202	Pentη	13C-PCB-97	100.00	5.89e+07	1.59 y	38:42	-	0.69
203	Pentη	13C-PCB-123	100.00	7.37e+07	1.61 y	41:15	-	0.87
204	Pentη	13C-PCB-118	100.00	7.79e+07	1.58 y	41:26	-	0.92
205	Pentη	13C-PCB-114	100.00	9.33e+07	1.60 y	42:06	-	1.35
206	Pentη	13C-PCB-105	100.00	9.17e+07	1.60 y	42:58	-	1.32
207	Pentη	13C-PCB-127	100.00	1.00e+08	1.57 y	43:17	-	1.45
208	Pentη	13C-PCB-126	100.00	9.05e+07	1.58 y	45:12	-	1.31
209	Hexaη	13C-PCB-155	100.00	7.08e+07	1.29 y	36:55	-	0.83
210	Hexaη	13C-PCB-153	100.00	7.92e+07	1.29 y	43:07	-	1.14
211	Hexaη	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	Hexaη	13C-PCB-159	100.00	8.48e+07	1.27 y	45:59	-	1.22
214	Hexaη	13C-PCB-167	100.00	9.22e+07	1.30 y	46:40	-	1.33
215	Hexaη	13C-PCB-156	100.00	8.85e+07	1.29 y	47:58	-	1.28
216	Hexaη	13C-PCB-157	100.00	9.20e+07	1.29 y	48:15	-	1.33
217	Hexaη	13C-PCB-169	100.00	8.62e+07	1.27 y	50:19	-	1.24
218	Heptη	13C-PCB-188	100.00	6.40e+07	0.46 y	42:45	-	0.92
219	Heptη	13C-PCB-180	100.00	4.63e+07	0.47 y	49:15	-	0.67
220	Heptη	13C-PCB-170	100.00	3.66e+07	0.47 y	50:40	-	0.53
221	Heptη	13C-PCB-189	100.00	4.78e+07	0.47 y	52:07	-	0.69
222	Octaη	13C-PCB-202	100.00	5.65e+07	0.94 y	48:11	-	0.81

223	Octaη	13C-PCB-194	100.00	5.16e+07	0.92 y	53:36	-	0.79
224	Nonaη	13C-PCB-208	100.00	7.00e+07	0.78 y	52:53	-	1.08
225	Nonaη	13C-PCB-206	100.00	4.23e+07	0.78 y	55:19	-	0.65
226	Decaη	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-η	13C-PCB-31	100.00	1.52e+08	1.05 y	28:55	-	1.00
229	Tetraη	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	Hexaη	13C-PCB-128	100.00	6.93e+07	1.27 y	46:16	-	1.00
232	Octaη	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 η	Total Mono-PCB	0.00	-	- n	-	-	1.35
170	Tot η	Total Di-PCB	0.00	-	- n	-	-	1.22
171	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.10

172	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.15
173	Tot η	Total Tetra-PCB	0.00	-	- n	-	-	1.06
174	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.18
175	Tot η	Total Penta-PCB	0.00	-	- n	-	-	1.23
176	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	0.90
177	Tot η	Total Hexa-PCB	0.00	-	- n	-	-	1.11
178	Tot η	Total Hepta-PCB	0.00	-	- n	-	-	1.41
179	Tot η	Total Octa-PCB	0.00	-	- n	-	-	0.99
180	Tot η	Total Octa-PCB	0.00	-	- n	-	-	1.32
181	Tot η	Total Nona-PCB	0.00	-	- n	-	-	1.02
182	Tot η	Total Deca-PCB	400.00	2.00e+08	1.19 y	56:35	-	1.17
183	Monoη	13C-PCB-1	100.00	1.43e+08	3.35 y	16:24	-	0.77
184	Monoη	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-η	13C-PCB-19	100.00	9.04e+07	1.10 y	24:14	-	0.48
189	Tri-η	13C-PCB-32	100.00	1.43e+08	1.10 y	27:06	-	0.77
190	Tri-η	13C-PCB-28	100.00	1.36e+08	1.05 y	29:02	-	0.89
191	Tri-η	13C-PCB-37	100.00	1.26e+08	1.06 y	32:52	-	0.82
192	Tetrη	13C-PCB-54	100.00	1.26e+08	0.81 y	27:55	-	0.97
193	Tetrη	13C-PCB-52	100.00	9.82e+07	0.78 y	31:24	-	0.76
194	Tetrη	13C-PCB-47	100.00	1.05e+08	0.77 y	31:55	-	0.81
195	Tetrη	13C-PCB-70	100.00	1.29e+08	0.79 y	35:25	-	1.00
196	Tetrη	13C-PCB-80	100.00	1.35e+08	0.80 y	35:50	-	1.04
197	Tetrη	13C-PCB-81	100.00	1.20e+08	0.78 y	38:56	-	0.93
198	Tetrη	13C-PCB-77	100.00	1.27e+08	0.80 y	39:32	-	0.98
199	Pentη	13C-PCB-104	100.00	8.83e+07	1.55 y	32:34	-	1.00
200	Pentη	13C-PCB-95	100.00	6.77e+07	1.62 y	35:43	-	0.77
201	Pentη	13C-PCB-101	100.00	7.03e+07	1.56 y	37:23	-	0.80
202	Pentη	13C-PCB-97	100.00	6.24e+07	1.61 y	38:42	-	0.71
203	Pentη	13C-PCB-123	100.00	7.82e+07	1.58 y	41:16	-	0.88
204	Pentη	13C-PCB-118	100.00	8.64e+07	1.60 y	41:26	-	0.98
205	Pentη	13C-PCB-114	100.00	1.01e+08	1.61 y	42:06	-	1.37
206	Pentη	13C-PCB-105	100.00	1.02e+08	1.58 y	42:58	-	1.38
207	Pentη	13C-PCB-127	100.00	1.09e+08	1.60 y	43:18	-	1.48
208	Pentη	13C-PCB-126	100.00	9.62e+07	1.57 y	45:12	-	1.30
209	Hexaη	13C-PCB-155	100.00	7.37e+07	1.30 y	36:56	-	0.83
210	Hexaη	13C-PCB-153	100.00	8.26e+07	1.29 y	43:07	-	1.12
211	Hexaη	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	Hexaη	13C-PCB-159	100.00	9.15e+07	1.26 y	46:00	-	1.24
214	Hexaη	13C-PCB-167	100.00	1.01e+08	1.25 y	46:40	-	1.37
215	Hexaη	13C-PCB-156	100.00	9.58e+07	1.27 y	47:59	-	1.30
216	Hexaη	13C-PCB-157	100.00	1.01e+08	1.31 y	48:15	-	1.36
217	Hexaη	13C-PCB-169	100.00	9.47e+07	1.29 y	50:19	-	1.28
218	Heptη	13C-PCB-188	100.00	6.72e+07	0.46 y	42:45	-	0.91
219	Heptη	13C-PCB-180	100.00	4.95e+07	0.46 y	49:15	-	0.67
220	Heptη	13C-PCB-170	100.00	3.88e+07	0.47 y	50:41	-	0.53
221	Heptη	13C-PCB-189	100.00	5.10e+07	0.48 y	52:07	-	0.69
222	Octaη	13C-PCB-202	100.00	5.93e+07	0.90 y	48:11	-	0.80

223	Octaη	13C-PCB-194	100.00	5.48e+07	0.91 y	53:37	-	0.80
224	Nonaη	13C-PCB-208	100.00	7.31e+07	0.78 y	52:53	-	1.07
225	Nonaη	13C-PCB-206	100.00	4.59e+07	0.80 y	55:18	-	0.67
226	Decaη	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-η	13C-PCB-31	100.00	1.53e+08	1.05 y	28:55	-	1.00
229	Tetrη	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	Hexaη	13C-PCB-128	100.00	7.38e+07	1.22 y	46:17	-	1.00
232	Octaη	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 η	Total Mono-PCB	0.00	-	- n	-	-	1.36
170	Tot η	Total Di-PCB	0.00	-	- n	-	-	1.25
171	Tot η	Total Tri-PCB	0.00	-	- n	-	-	1.15

172	Tot	η	Total Tri-PCB	0.00	-	-	n	-	-	1.12
173	Tot	η	Total Tetra-PCB	0.00	-	-	n	-	-	1.09
174	Tot	η	Total Penta-PCB	0.00	-	-	n	-	-	1.23
175	Tot	η	Total Penta-PCB	0.00	-	-	n	-	-	1.25
176	Tot	η	Total Hexa-PCB	0.00	-	-	n	-	-	0.96
177	Tot	η	Total Hexa-PCB	0.00	-	-	n	-	-	1.14
178	Tot	η	Total Hepta-PCB	0.00	-	-	n	-	-	1.46
179	Tot	η	Total Octa-PCB	0.00	-	-	n	-	-	1.03
180	Tot	η	Total Octa-PCB	0.00	-	-	n	-	-	1.36
181	Tot	η	Total Nona-PCB	0.00	-	-	n	-	-	1.03
182	Tot	η	Total Deca-PCB	750.00	3.89e+08	1.19	y	56:40	-	1.22
183	Mono	η	13C-PCB-1	100.00	1.51e+08	3.37	y	16:24	-	0.77
184	Mono	η	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-η		13C-PCB-19	100.00	9.33e+07	1.09	y	24:14	-	0.48
189	Tri-η		13C-PCB-32	100.00	1.45e+08	1.09	y	27:05	-	0.74
190	Tri-η		13C-PCB-28	100.00	1.37e+08	1.03	y	29:01	-	1.02
191	Tri-η		13C-PCB-37	100.00	1.25e+08	1.07	y	32:52	-	0.93
192	Tetrη		13C-PCB-54	100.00	1.30e+08	0.80	y	27:56	-	0.98
193	Tetrη		13C-PCB-52	100.00	9.99e+07	0.80	y	31:25	-	0.75
194	Tetrη		13C-PCB-47	100.00	1.04e+08	0.77	y	31:55	-	0.78
195	Tetrη		13C-PCB-70	100.00	1.35e+08	0.78	y	35:24	-	1.02
196	Tetrη		13C-PCB-80	100.00	1.39e+08	0.80	y	35:49	-	1.05
197	Tetrη		13C-PCB-81	100.00	1.30e+08	0.79	y	38:56	-	0.98
198	Tetrη		13C-PCB-77	100.00	1.29e+08	0.80	y	39:32	-	0.97
199	Pentη		13C-PCB-104	100.00	8.83e+07	1.59	y	32:34	-	0.96
200	Pentη		13C-PCB-95	100.00	6.79e+07	1.55	y	35:43	-	0.74
201	Pentη		13C-PCB-101	100.00	7.25e+07	1.55	y	37:23	-	0.79
202	Pentη		13C-PCB-97	100.00	6.44e+07	1.57	y	38:42	-	0.70
203	Pentη		13C-PCB-123	100.00	8.18e+07	1.58	y	41:16	-	0.89
204	Pentη		13C-PCB-118	100.00	9.11e+07	1.59	y	41:27	-	0.99
205	Pentη		13C-PCB-114	100.00	1.10e+08	1.61	y	42:06	-	1.45
206	Pentη		13C-PCB-105	100.00	1.10e+08	1.59	y	42:58	-	1.45
207	Pentη		13C-PCB-127	100.00	1.18e+08	1.61	y	43:18	-	1.54
208	Pentη		13C-PCB-126	100.00	1.02e+08	1.57	y	45:13	-	1.34
209	Hexaη		13C-PCB-155	100.00	7.27e+07	1.27	y	36:56	-	0.79
210	Hexaη		13C-PCB-153	100.00	8.79e+07	1.29	y	43:07	-	1.15
211	Hexaη		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	Hexaη		13C-PCB-159	100.00	9.51e+07	1.28	y	45:59	-	1.25
214	Hexaη		13C-PCB-167	100.00	1.01e+08	1.26	y	46:41	-	1.33
215	Hexaη		13C-PCB-156	100.00	1.01e+08	1.27	y	47:59	-	1.32
216	Hexaη		13C-PCB-157	100.00	1.05e+08	1.31	y	48:15	-	1.38
217	Hexaη		13C-PCB-169	100.00	9.82e+07	1.28	y	50:20	-	1.29
218	Heptη		13C-PCB-188	100.00	6.91e+07	0.47	y	42:45	-	0.91
219	Heptη		13C-PCB-180	100.00	4.94e+07	0.48	y	49:16	-	0.65
220	Heptη		13C-PCB-170	100.00	3.94e+07	0.46	y	50:41	-	0.52
221	Heptη		13C-PCB-189	100.00	5.34e+07	0.46	y	52:08	-	0.70
222	Octaη		13C-PCB-202	100.00	5.91e+07	0.90	y	48:12	-	0.78

223	Octaη	13C-PCB-194	100.00	5.78e+07	0.93 y	53:39	-	0.79
224	Nonaη	13C-PCB-208	100.00	7.83e+07	0.77 y	52:54	-	1.07
225	Nonaη	13C-PCB-206	100.00	4.57e+07	0.77 y	55:21	-	0.62
226	Decaη	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-η	13C-PCB-31	100.00	1.34e+08	1.04 y	28:55	-	1.00
229	Tetraη	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	Hexaη	13C-PCB-128	100.00	7.63e+07	1.27 y	46:17	-	1.00
232	Octaη	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	QC	PASS	CONC.		ANALYTES	ION	QC	PASS	CONC.	
	ABUND.	LIMITS		FOUND	RANGE		ABUND.	LIMITS		FOUND	RANGE
	RATIO			(ng/mL)		RATIO				(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	QC	PASS	CONC.	CONC.
	ABUND.	LIMITS		FOUND	RANGE
	RATIO				(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. CONC. FOUND	RANGE (ng/mL)	LABELED IS	ION ABUND. RATIO	QC LIMITS	PASS	CONC. CONC. FOUND	RANGE (ng/mL)
13C-PCB-1	3.37	2.66-3.60	y	98.7	50.0-145	13C-PCB-169	1.27	1.05-1.43	y	96.7	50 - 145
13C-PCB-3	3.41	2.66-3.60	y	94.8	50.0-145	13C-PCB-188	0.46	0.38-0.52	y	100.6	50 - 145
13C-PCB-4	1.58	1.33-1.79	y	99.7	50.0-145	13C-PCB-180	0.47	0.38-0.52	y	97.7	50 - 145
13C-PCB-9	1.59	1.33-1.79	y	99.2	50.0-145	13C-PCB-170	0.47	0.38-0.52	y	97.2	50 - 145
13C-PCB-11	1.57	1.33-1.79	y	98.2	50.0-145	13C-PCB-189	0.47	0.38-0.52	y	96.3	50 - 145
13C-PCB-19	1.07	0.88-1.20	y	99.8	50.0-145	13C-PCB-202	0.94	0.76-1.02	y	97.2	50 - 145
13C-PCB-32	1.09	0.88-1.20	y	98.2	50.0-145	13C-PCB-194	0.92	0.76-1.02	y	99.4	50 - 145
13C-PCB-28	1.06	0.88-1.20	y	98.7	50.0-145	13C-PCB-208	0.78	0.65-0.89	y	99.5	50 - 145
13C-PCB-37	1.07	0.88-1.20	y	94.4	50.0-145	13C-PCB-206	0.78	0.65-0.89	y	100.0	50 - 145
13C-PCB-54	0.81	0.65-0.89	y	100.9	50.0-145	13C-PCB-209	1.23	0.99-1.33	y	96.9	50 - 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-79	0.79	0.65-0.89	y	98.3	75 - 125
13C-PCB-118	1.58	1.32-1.78	y	95.4	50.0-145	13C-PCB-178	0.46	0.38-0.52	y	101.1	75 - 125
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						

CRS vs. RS

Analyst: DMJ

Date: 6/24/14

Client ID: PCB CS3 14F1302
Lab ID: ST140623E2-4

Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49 ConCal: NA
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	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-52/69	1.24e+08	0.76	y	1.28	31:27	1.001	0.996-1.006	99.8332
PCB-2	9.45e+07	3.01	y	1.18	18:41	0.989	0.984-0.994	51.8481	PCB-73	6.71e+07	0.78	y	1.35	31:34	1.005	1.000-1.010	51.0170
PCB-3	1.13e+08	3.01	y	1.43	18:55	1.001	0.996-1.006	51.3028	PCB-43/49	9.43e+07	0.76	y	0.99	31:44	1.010	1.005-1.015	97.5221
PCB-4/10	3.27e+08	1.65	y	1.57	20:14	1.002	0.997-1.007	200.078	PCB-47	5.35e+07	0.76	y	1.06	31:55	1.001	0.996-1.006	49.2976
PCB-7/9	3.82e+08	1.65	y	1.21	21:57	0.870	0.866-0.874	199.310	PCB-48/75	1.20e+08	0.77	y	1.23	32:02	1.004	0.999-1.009	95.5705
PCB-6	2.07e+08	1.66	y	1.30	22:35	0.895	0.890-0.899	100.033	PCB-65	6.30e+07	0.76	y	1.22	32:19	1.013	1.008-1.018	50.1860
PCB-5/8	3.65e+08	1.64	y	1.15	23:00	0.912	0.907-0.917	200.175	PCB-62	5.58e+07	0.76	y	1.22	32:26	1.016	1.011-1.021	44.5973
PCB-14	1.87e+08	1.66	y	1.11	24:04	0.954	0.949-0.959	102.750	PCB-44	4.12e+07	0.77	y	0.86	32:43	1.026	1.021-1.031	46.6811
PCB-11	1.81e+08	1.65	y	1.09	25:14	1.000	0.995-1.005	101.723	PCB-42/59	1.11e+08	0.76	y	1.14	32:57	1.033	1.028-1.038	95.2591
PCB-12/13	3.92e+08	1.65	y	1.19	25:38	1.016	1.011-1.021	200.431	PCB-41/64/71/72	2.33e+08	0.77	y	1.21	33:32	1.051	1.046-1.056	187.913
PCB-15	2.11e+08	1.66	y	1.28	25:56	1.028	1.023-1.033	100.196	PCB-68	6.63e+07	0.76	y	1.35	33:47	1.059	1.054-1.064	47.9757
PCB-19	4.92e+07	1.05	y	1.04	24:15	1.001	0.996-1.006	49.8495	PCB-40	3.48e+07	0.77	y	0.70	34:00	1.066	1.061-1.071	48.4517
PCB-30	7.99e+07	1.06	y	1.71	25:07	1.037	1.032-1.042	49.3635	PCB-57	6.06e+07	0.76	y	0.98	34:22	0.970	0.965-0.975	50.6920
PCB-18	5.58e+07	1.05	y	0.78	25:51	0.954	0.949-0.959	51.2756	PCB-67	6.65e+07	0.76	y	1.11	34:40	0.979	0.974-0.984	49.1755
PCB-17	6.48e+07	1.05	y	0.92	26:02	0.961	0.956-0.966	50.4844	PCB-58	5.67e+07	0.79	y	0.93	34:47	0.982	0.977-0.987	50.1141
PCB-24/27	1.68e+08	1.05	y	1.19	26:36	0.982	0.977-0.987	101.312	PCB-63	5.70e+07	0.76	y	0.95	34:56	0.987	0.982-0.992	48.9977
PCB-16/32	1.31e+08	1.06	y	0.94	27:06	1.000	0.995-1.005	100.158	PCB-74	7.34e+07	0.77	y	1.24	35:13	0.995	0.990-1.000	48.3011
PCB-34	7.59e+07	1.03	y	1.14	27:52	0.960	0.955-0.965	47.8540	PCB-61/70	1.16e+08	0.77	y	0.95	35:24	1.000	0.995-1.005	99.8888
PCB-23	8.55e+07	1.06	y	1.28	27:58	0.964	0.959-0.969	47.9079	PCB-76/66	1.26e+08	0.77	y	1.04	35:37	1.006	1.001-1.011	99.0361
PCB-29	7.42e+07	1.04	y	1.08	28:13	0.972	0.967-0.977	49.2142	PCB-80	7.72e+07	0.77	y	1.19	35:50	1.001	0.996-1.006	51.1089
PCB-26	8.24e+07	1.04	y	1.21	28:25	0.975	0.974-0.984	48.9217	PCB-55	6.84e+07	0.77	y	1.04	36:10	1.010	1.005-1.015	51.7926
PCB-25	8.85e+07	1.06	y	1.26	28:34	0.984	0.979-0.989	50.2567	PCB-56/60	1.27e+08	0.77	y	1.01	36:40	1.024	1.019-1.029	98.8614
PCB-31	8.64e+07	1.02	y	1.28	28:56	0.997	0.992-1.002	48.1924	PCB-79	6.79e+07	0.78	y	1.08	37:43	1.053	1.048-1.058	49.6313
PCB-28	1.19e+08	1.04	y	1.71	29:02	1.000	0.995-1.005	49.7990	PCB-78	6.97e+07	0.77	y	1.27	38:25	0.987	0.982-0.992	49.0861
PCB-20/21/33	2.26e+08	1.03	y	1.08	29:39	1.022	1.017-1.027	149.601	PCB-81	7.20e+07	0.78	y	1.33	38:57	1.000	0.995-1.005	48.4278
PCB-22	8.60e+07	1.04	y	1.21	30:05	1.037	1.032-1.042	50.9455	PCB-77	6.19e+07	0.79	y	1.10	39:33	1.000	0.995-1.005	49.2464
PCB-36	7.12e+07	1.03	y	1.14	30:40	0.933	0.928-0.938	51.8469	PCB-104	5.11e+07	1.57	y	1.18	32:35	1.001	0.996-1.006	50.6145
PCB-39	7.20e+07	1.02	y	1.12	31:09	0.948	0.943-0.953	53.6838	PCB-96	4.80e+07	1.56	y	1.14	33:50	1.039	1.034-1.044	49.4868
PCB-38	7.37e+07	1.03	y	1.20	31:55	0.971	0.966-0.976	51.1156	PCB-103	3.98e+07	1.56	y	0.96	34:22	1.055	1.050-1.060	48.8016
PCB-35	7.10e+07	1.03	y	1.23	32:26	0.987	0.982-0.992	47.9376	PCB-100	3.93e+07	1.58	y	0.94	34:42	1.066	1.061-1.071	49.1824
PCB-37	7.16e+07	1.02	y	1.23	32:53	1.000	0.995-1.005	48.3854	PCB-94	3.18e+07	1.55	y	1.06	35:11	0.985	0.980-0.990	48.0705
PCB-54	6.73e+07	0.78	y	1.10	27:57	1.001	0.996-1.006	49.6981	PCB-95/98/102	1.14e+08	1.55	y	1.22	35:42	1.000	0.995-1.005	149.073
PCB-50	5.38e+07	0.77	y	0.88	29:05	1.042	1.037-1.047	49.7280	PCB-93	2.65e+07	1.58	y	0.84	35:48	1.002	0.997-1.007	50.1439
PCB-53	5.23e+07	0.75	y	1.06	29:44	0.947	0.942-0.952	50.5493	PCB-88/91	7.03e+07	1.58	y	1.12	36:05	1.010	1.005-1.015	100.529
PCB-51	4.77e+07	0.77	y	0.99	30:04	0.957	0.952-0.962	49.5846	PCB-121	5.08e+07	1.60	y	1.62	36:12	1.014	1.009-1.019	50.2163
PCB-45	4.32e+07	0.77	y	0.86	30:30	0.971	0.966-0.976	51.4204	PCB-84/92	6.82e+07	1.56	y	1.05	37:01	0.990	0.985-0.995	99.2072
PCB-46	4.05e+07	0.76	y	0.85	30:59	0.986	0.981-0.991	49.2764	PCB-89	3.73e+07	1.58	y	1.13	37:14	0.996	0.991-1.001	50.2710

Integrations by _____ Reviewed by _____
RL: MONO, TRI - DECA: _____ Analyst: *Dms*
RL: DI : _____ Date: *6/24/14* Date: _____

Client ID: PCB CS3 14F1302
Lab ID: ST140623E2-4

Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49 ConCal: NA
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	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-133/142	6.32e+07	1.24	y	0.82	42:20	0.982	0.977-0.987	97.4225
PCB-113	4.88e+07	1.57	y	1.41	37:39	1.007	1.002-1.012	52.6770	PCB-131	3.53e+07	1.23	y	0.91	42:30	0.986	0.981-0.991	49.1208
PCB-99	4.19e+07	1.60	y	1.34	37:44	1.009	1.004-1.014	47.7406	PCB-146/165	9.72e+07	1.25	y	1.25	42:43	0.991	0.986-0.996	98.5088
PCB-119	4.49e+07	1.56	y	1.53	38:12	0.987	0.982-0.992	49.7646	PCB-132/161	8.58e+07	1.31	y	1.10	42:58	0.997	0.992-1.002	98.0024
PCB-108/112	7.56e+07	1.58	y	1.28	38:21	0.991	0.986-0.996	100.241	PCB-153	4.86e+07	1.16	y	1.25	43:08	1.000	0.995-1.005	49.1545
PCB-83	4.40e+07	1.57	y	1.52	38:31	0.995	0.990-1.000	49.2175	PCB-168	5.75e+07	1.25	y	1.45	43:21	1.006	1.001-1.011	50.0689
PCB-97	3.44e+07	1.55	y	1.18	38:42	1.000	0.995-1.005	49.3584	PCB-141	3.94e+07	1.24	y	1.09	43:52	1.000	0.995-1.005	48.7397
PCB-86	2.35e+07	1.55	y	0.84	38:51	1.004	0.999-1.009	47.2868	PCB-137	3.90e+07	1.23	y	1.06	44:15	1.009	1.004-1.014	49.2894
B-87/117/125	1.40e+08	1.62	y	1.55	38:58	1.007	1.002-1.012	153.661	PCB-130	3.61e+07	1.23	y	0.96	44:21	1.011	1.006-1.016	50.1859
PCB-111/115	9.49e+07	1.51	y	1.63	39:08	1.011	1.006-1.016	98.7316	PCB-138/163/164	1.47e+08	1.24	y	1.29	44:44	1.001	0.996-1.006	147.764
PCB-85/116	7.71e+07	1.58	y	1.30	39:16	1.015	1.010-1.020	100.601	PCB-158/160	1.03e+08	1.23	y	1.34	44:59	1.006	1.001-1.011	99.9483
PCB-120	4.81e+07	1.59	y	1.68	39:30	1.021	1.016-1.026	48.6800	PCB-129	3.23e+07	1.24	y	0.85	45:13	1.012	1.007-1.017	49.1140
PCB-110	4.58e+07	1.57	y	1.56	39:39	1.025	1.020-1.030	50.0059	PCB-166	4.98e+07	1.24	y	1.19	45:41	0.993	0.988-0.998	49.5492
PCB-82	2.78e+07	1.55	y	0.76	40:17	0.976	0.971-0.981	49.7616	PCB-159	4.70e+07	1.23	y	1.11	46:01	1.001	0.996-1.006	49.8539
PCB-124	5.28e+07	1.58	y	1.47	40:57	0.993	0.988-0.998	48.7175	PCB-128/162	8.65e+07	1.23	y	1.05	46:18	1.007	1.002-1.012	97.4214
PCB-107/109	9.93e+07	1.59	y	1.32	41:05	0.996	0.991-1.001	102.042	PCB-167	5.55e+07	1.22	y	1.20	46:41	1.000	0.995-1.005	50.1954
PCB-123	4.35e+07	1.59	y	1.17	41:17	1.001	0.996-1.006	50.5524	PCB-156	5.05e+07	1.25	y	1.14	48:00	1.001	0.996-1.006	50.3349
- PCB-106/118	9.15e+07	1.59	y	1.17	41:28	1.001	0.996-1.006	100.161	PCB-157	5.18e+07	1.24	y	1.16	48:16	1.000	0.995-1.005	48.3867
- PCB-114	6.12e+07	1.65	y	1.30	42:07	1.000	0.995-1.005	50.6258	PCB-169	4.66e+07	1.27	y	1.12	50:20	1.000	0.995-1.005	48.3941
PCB-122	5.19e+07	1.66	y	1.12	42:15	1.004	0.999-1.009	49.6469	PCB-188	4.99e+07	1.05	y	1.58	42:46	1.001	0.996-1.006	49.3061
PCB-105	5.88e+07	1.64	y	1.30	42:59	1.000	0.995-1.005	49.4039	PCB-184	5.13e+07	1.06	y	1.63	43:13	1.011	1.006-1.016	49.1029
PCB-127	6.36e+07	1.67	y	1.33	43:19	1.001	0.996-1.006	47.5787	PCB-179	4.15e+07	1.06	y	1.30	44:00	1.029	1.024-1.034	49.7059
PCB-126	5.32e+07	1.63	y	1.18	45:13	1.000	0.995-1.005	49.7195	PCB-176	4.68e+07	1.04	y	1.48	44:28	1.040	1.035-1.045	49.4886
PCB-155	3.92e+07	1.27	y	1.11	36:57	1.001	0.966-1.006	49.6608	PCB-186	4.64e+07	1.05	y	1.45	45:05	1.055	1.050-1.060	49.8177
PCB-150	3.54e+07	1.29	y	1.00	38:13	1.035	1.030-1.040	50.0537	PCB-178	3.27e+07	1.05	y	1.03	45:34	1.066	1.061-1.071	49.3595
PCB-152	3.90e+07	1.30	y	1.12	38:42	1.048	1.043-1.053	49.3510	PCB-175	3.22e+07	1.05	y	1.01	45:55	1.074	1.069-1.079	49.6213
PCB-145	4.21e+07	1.28	y	1.20	39:08	1.060	1.055-1.065	49.5203	PCB-182/187	7.77e+07	1.05	y	1.25	46:05	1.078	1.073-1.083	96.9439
PCB-136	4.09e+07	1.29	y	1.18	39:28	1.069	1.064-1.074	48.9891	PCB-183	3.68e+07	1.05	y	1.21	46:24	1.086	1.081-1.091	47.6012
PCB-148	2.62e+07	1.30	y	0.74	39:33	1.071	1.066-1.076	49.6483	PCB-185	4.12e+07	1.07	y	1.80	47:04	0.956	0.951-0.961	49.3457
PCB-154	2.94e+07	1.28	y	0.86	40:03	1.085	1.080-1.090	48.3589	PCB-174	3.30e+07	1.02	y	1.38	47:26	0.963	0.958-0.968	51.6599
PCB-151	2.53e+07	1.29	y	0.75	40:42	1.102	1.097-1.107	47.8747	PCB-181	3.14e+07	1.06	y	1.38	47:33	0.965	0.960-0.970	49.1713
PCB-135	2.73e+07	1.26	y	0.79	40:55	1.108	1.103-1.113	48.6888	PCB-177	2.91e+07	1.05	y	1.26	47:42	0.968	0.963-0.973	50.0451
PCB-144	2.52e+07	1.30	y	0.76	41:02	1.111	1.105-1.117	46.6300	PCB-171	3.69e+07	1.07	y	1.58	48:00	0.975	0.970-0.980	50.3499
PCB-147	2.80e+07	1.30	y	0.82	41:09	1.115	1.109-1.121	48.1949	PCB-173	2.61e+07	1.04	y	1.11	48:26	0.983	0.978-0.988	50.8218
PCB-139/149	5.22e+07	1.28	y	0.76	41:25	1.122	1.116-1.128	96.7904	PCB-172	3.80e+07	1.07	y	1.63	48:53	0.992	0.987-0.997	50.2115
- PCB-140	2.47e+07	1.27	y	0.72	41:36	1.127	1.121-1.133	48.2707	PCB-192	4.11e+07	1.06	y	1.74	49:04	0.996	0.991-1.001	51.0155
- PCB-134/143	7.05e+07	1.25	y	0.92	42:02	0.975	0.970-0.980	97.1084	PCB-180	3.12e+07	1.05	y	1.34	49:17	1.000	0.995-1.005	50.1142

Integrations

by

RL: MONO, TRI - DECA: _____

Analyst: *DMS*

Date: *6/24/14*

Client ID: PCB CS3 14F1302
Lab ID: ST140623E2-4

Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.0000
ConCal: NA EndCAL: NA

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Name	Resp	RA	RT	RRF	Conc	
PCB-193	3.98e+07	1.07 y	1.72	49:27	1.004	0.999-1.009		50.0826	Total Mono-PCB	3.01e+08	3.00 y	16:25	1.27	154.481	
PCB-191	3.90e+07	1.07 y	1.69	49:42	1.009	1.004-1.014		49.6416	Total Di-PCB	2.26e+09	1.65 y	20:14	1.21	1208.89	
PCB-170	2.97e+07	1.05 y	1.60	50:41	1.000	0.995-1.005		50.7863	Total Tri-PCB	5.48e+08	1.05 y	24:15	1.10	402.442	
PCB-190	4.08e+07	1.06 y	2.21	50:51	1.003	0.998-1.008		50.4671	Total Tri-PCB	1.30e+09	1.03 y	27:52	1.21	807.063	Sum:1209.50
PCB-189	3.71e+07	1.05 y	1.55	52:08	1.000	0.995-1.005		50.0142	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	
PCB-202	3.01e+07	0.94 y	1.08	48:12	1.000	0.995-1.005		49.1569	Total Penta-PCB	3.13e+08	1.65 y	42:07	1.25	268.155	Sum:2315.77
PCB-201	3.19e+07	0.91 y	1.15	48:41	1.010	1.005-1.015		49.1361	Total Hexa-PCB	4.35e+08	1.27 y	36:57	0.90	682.032	
PCB-204	3.22e+07	0.91 y	1.14	48:50	1.014	1.008-1.018		50.0554	Total Hexa-PCB	1.26e+09	1.25 y	42:02	1.11	1398.33	Sum:2080.36
PCB-197	3.03e+07	0.91 y	1.07	49:09	1.020	1.015-1.025		49.8625	Total Hepta-PCB	9.18e+08	1.05 y	42:46	1.42	1205.33	
PCB-200	3.01e+07	0.90 y	1.06	49:59	1.037	1.032-1.044		50.0631	Total Octa-PCB	2.43e+08	0.94 y	48:12	0.96	447.388	
PCB-198	2.18e+07	0.92 y	0.76	51:15	1.064	1.059-1.069		51.1487	Total Octa-PCB	1.04e+08	0.89 y	52:45	1.33	151.653	Sum:599.041
PCB-199	2.16e+07	0.91 y	0.80	51:21	1.066	1.061-1.071		47.8578	Total Nona-PCB	9.23e+07	1.34 y	52:53	1.01	150.101	
- PCB-196/203	4.53e+07	0.92 y	0.80	51:37	1.071	1.066-1.076		100.108	Total Deca-PCB	2.30e+07	1.21 y	56:38	1.17	51.1001	
- 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							Total PCB Conc:10960.1670500
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							

Integrations
by
Analyst: DMS
Date: 6/24/14
RL: MONO, TRI - DECA: _____

Client ID: PCB CS3 14F1302
Lab ID: ST140623E2-4

Filename: 140623E2 S:4 Acq:23-JUN-14 14:53:49 ConCal: NA
GC Column ID: ZB-1 ICal: PCBVG8-6-23-14 wt/vol: 1.000 EndCAL: NA

Page 1 of

Name	Resp	RA	RRF	RT	RRT	LCL	UCL	Conc	Rec	CRS vs. RS	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-79	1.25e+08	0.79	y	1.02	37:42	1.028	1.023-1.034	98.3	98.3
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-178	4.30e+07	0.46	y	0.61	45:33	0.984	0.979-0.990	101	101
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											

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