ADDENDUM NO. 1
COMPLETION OF WORK REPORT
TIME-CRITICAL REMOVAL ACTION

Shallow Groundwater Remedy – Groundwater Action Area
Centredale Manor Restoration Project Superfund Site
North Providence, Rhode Island

April 2010

Prepared for

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1. INTRODUCTION

On behalf of Emhart Industries, Inc. (Emhart), Loureiro Engineering Associates, Inc. (LEA) has prepared this addendum (Addendum No. 1) to the February 2010 Completion of Work Report (CWR), which documents the performance of a Time-Critical Removal Action (TCRA) for the United States Environmental Protection Agency (USEPA)-designated Groundwater Action Area of the Centredale Manor Restoration Project Superfund Site located in North Providence, Rhode Island (Site). The TCRA was performed in accordance with an Administrative Settlement Agreement and Order on Consent (Order) (CERCLA Docket No. 01-2009-0086), dated August 11, 2009.

The TCRA activities documented in the CWR included: (i) excavating potentially impacted soils and sediments to specified lines and grades and disposing the material off-site; (ii) installing steel sheeting to control surface water during construction activities; (iii) backfilling and re-grading the area of excavation; (iv) constructing an impermeable cap over the Groundwater Action Area; and (v) installing groundwater monitoring points for future sampling. Addendum No. 1 documents the performance of groundwater sampling activities following the submittal of the CWR. This addendum has been prepared pursuant to the Statement of Work (SOW) attached as Appendix A to the Order and meets the requirements of § 300.165 of the National Contingency Plan (NCP) (40 C.F.R. Part 300), entitled "OSC Reports."

The groundwater sampling activities documented in this addendum were performed in accordance with a USEPA-approved Field Sampling Plan (FSP), dated December 23, 2009. The sampling activities involved the collection of groundwater samples at monitoring wells MW-GWR-001 and MW-GWR-002, installed pursuant to the TCRA Work Plan and located as shown in Drawing A.1.

2. METHODS

2.1 Monitoring Well Development

Monitoring wells MW-GWR-001 and MW-GWR-002 were developed using surge and over-pumping techniques. The Field Report Forms used to record data during the development process are provided as Attachment A.1. The monitoring wells were developed until the geochemical parameters monitored in the field had stabilized, the discharged water was visibly clear, and the turbidity of the discharged water at each location was below 5 nephalometric turbidity units (NTUs). During the well development process, the water purged from each well was containerized. On March 16, 2010, this investigation-derived waste was transported from the Site for disposal at the Stablex Canada, Inc. facility located in Blainville, Québec, Canada.

2.2 Groundwater Sampling Pump Deployment

On January 14, 2010, the tubing and peristaltic pumps used to sample the wells were deployed at monitoring wells MW-GWR-001 and MW-GWR-002. In accordance with the FSP, the tubing intake was placed at the mid-point of the saturated screen of each well. At each well-head, the tubing was secured to the top of the casing to minimize any disturbance to the water flowing through the well that might be caused by movement of the tubing. The tubing was connected to the peristaltic pump set within the well vault at each location.

2.3 Water Level Measurements

On February 2, 2010, depth-to-water measurements were recorded at piezometer and monitoring well locations within and surrounding the Groundwater Action Area. The depth-to-water measurements are recorded on the Field Report Forms provided as Attachment A.1, and in Table 1 of Drawing A.1. The measurements were used to calculate the groundwater elevation from the surveyed top-of-casing elevation at each piezometer/well. The calculated groundwater elevations are shown in Table 1 of Drawing A.1.

2.4 Groundwater Sampling

On February 2, 2010, samples were obtained from monitoring wells MW-GWR-001 and MW-GWR-002. The samples were collected using a modified low-flow sampling technique, in accordance with the FSP. During the well purging process, groundwater was monitored in the field for geochemical parameters using a water-quality meter equipped with an in-line, flow-through cell. The measured parameters were recorded on the Field Report Forms provided in

Attachment A.1. Each monitoring well was purged until the measured field parameters of temperature, specific conductance, pH, dissolved oxygen, and oxidation-reduction potential had stabilized, and turbidity was measured to be below 1 NTU. During the sampling process, the water purged from each well was containerized in accordance with the FSP. On March 16, 2010, this investigation-derived waste was transported from the Site for disposal at the Stablex Canada, Inc. facility located in Blainville, Québec, Canada.

In accordance with the FSP, both filtered and unfiltered samples were obtained. The samples were collected directly into appropriate, laboratory-prepared containers. Also, during this sampling event, quality assurance/quality control (QA/QC) samples were obtained in accordance with the USEPA-approved Project-Specific Quality Assurance Project Plan (QAPP), dated December 23, 2009. The QA/QC samples included: (i) one field equipment rinsate blank sample; (ii) one field duplicate sample obtained from well MW-GWR-001; (iii) one site-specific matrix-spike (MS) and associated matrix-spike duplicate (MSD) sample; and (iv) one performance evaluation (PE) sample. Upon collection, the field and QA/QC sample containers were placed on ice in secure coolers prior to shipping them to the analyzing laboratory.

The groundwater samples were handled in accordance with the chain-of-custody protocols provided in the QAPP. The samples were shipped to TestAmerica of West Sacramento, California, for laboratory analysis. The laboratory was instructed to place all filtered samples "On Hold" and to analyze all of the unfiltered and QA/QC samples for polychlorinated dibenzodioxin/polychlorinated dibenzofuran (PCDD/PCDF) compounds using USEPA SW-846 Method 8290A. The results of the laboratory analyses were validated by Environmental Standards, Inc. of Valley Forge, Pennsylvania, a third-party data validator. All laboratory analytical and QA/QC procedures were performed in accordance with the QAPP.

3. RESULTS

3.1 Groundwater Elevations

Groundwater elevations for the depth-to-water measurements recorded on February 2, 2010 are shown in Drawing A.1. The elevations range between approximately 105 feet above mean sea level (amsl) at the northern extent of the Site and 94 feet amsl at the southern extent of Cap No. 1, resulting in groundwater flow generally from north to south across the Site under a shallow hydraulic gradient. For the northern extent of the Site, including the Groundwater Action Area, the groundwater gradient was calculated to be approximately 0.004 feet per foot (ft/ft). For the southern half of the Site, the groundwater gradient was calculated to be approximately 0.002 ft/ft.

As shown in Drawing A.1, the primary direction of groundwater flow is toward the south, although there is a slight southwest component of flow toward the Woonasquatucket River. The hydraulic mound previously observed near the former location of monitoring well MW-05S is no longer present.

3.2 Laboratory Analytical Results

A summary of the PCDD/PCDF congeners detected in the three unfiltered field samples (Sample IDs 1138338UF, 1138339UF and 1138342UF) and two QC samples (Sample IDs 1138343UF (Equipment Blank) and 1138344 (Performance Evaluation Sample) is provided in Table A.1. The TestAmerica Laboratory Analytical Report is provided as Attachment A.2, and the Environmental Standards, Inc. Quality Assurance Review Report is provided as Attachment A.3.

As shown in Table A.1, dioxin/furan congeners were reported by the laboratory to be present in the unfiltered field samples. However, based on the Quality Assurance Review provided by Environmental Standards, Inc., most of the reported concentrations, including all of the reported concentrations of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD), have been qualified: (i) as estimated, because the constituents were detected at concentrations below the lower calibration limits (J); (ii) as estimated maximum possible concentrations (EMPCs) (Q); and/or (iii) as estimated, due to the reported presence of the compounds in the corresponding laboratory method blank (B). Nonetheless, Environmental Standards, Inc. found the quality of the data for the PCDD/PCDF compounds reported to be present in the samples to be generally acceptable. However, the following minor qualifications were made:

- The results for various PCDD/PCDF compounds in several samples were qualified as not-detected (U) due to the presence of these compounds in associated laboratory or equipment blanks. These data are summarized in Table A.2.

- The results for various PCDD/PCDF compounds in several samples were qualified as EMPCs due to out-of-criteria ion abundance ratios. These data are summarized in Table A.3.

- All positive results reported with concentrations less than the lower calibration limits were qualified as estimated (J). These data are summarized in Table A.4.

Based on an evaluation of supporting QA/QC samples, Environmental Standards, Inc. noted that:

- The PE sample (ID 1138344) results were within accuracy requirements supported by vendor-certified acceptance limits. The Vendor-Certified Certificate of Analysis is provided as Attachment A.4.

- The results for the field duplicate pair (Sample IDs 1138338UF and 1138342UF) were within acceptable limits of precision and sample representativeness specified in the validation guidelines.

- Octachlorodibenzufuran (OCDF) was reported to be present in the equipment blank (ID 1138343UF) at a concentration of 1.4 picograms per liter (pg/L).

While some of the data have certain limitations as identified by Environmental Standards, Inc., the data are suitable for the purpose of evaluating whether the sampling results are within the Project Action Limit (PAL) set forth by USEPA in Worksheet No. 15 of the QAPP. Moreover, the remaining unqualified analytical data are acceptable for use as reported by the laboratory. In light of these findings, TestAmerica was not instructed to analyze the filtered groundwater samples that were collected during the sampling event.

4. EVALUATION OF LABORATORY ANALYTICAL RESULTS

The laboratory analytical results of the groundwater samples obtained from monitoring wells MW-GWR-001 and MW-GWR-002 were compared to both the USEPA Maximum Contaminant Level (MCL) of 30 pg/L for 2,3,7,8-TCDD, and the USEPA-defined PAL of 10 pg/ L for 2,3,7,8-TCDD, which is specified in Work Sheet No. 15 of the QAPP. The concentrations of 2,3,7,8-TCDD reported for these samples are below both the MCL value and the PAL value for this compound.

5. SUMMARY AND CONCLUSIONS

Groundwater samples were obtained from the two monitoring wells installed pursuant to the TCRA Work Plan. These samples were analyzed for PCDDs/PCDFs. The groundwater data were validated, and the data were found to be suitable for the purpose of evaluating compliance with the PAL associated with the TCRA. The concentrations of 2,3,7,8-TCDD reported by the laboratory are below the MCL value of 30 pg/L, and the USEPA-defined PAL of 10 pg/L, demonstrating compliance with the PAL. The TCRA has reduced short-term risk and, as contemplated, provides for a permanent remedy consistent with the long-term remedies presently under evaluation by USEPA staff. Moreover, the TCRA has resulted in the permanent removal of contaminant mass, and provides for the overall, long-term protection of human health and the environment. Based on the foregoing, the objectives of the TCRA defined in the September 10, 2009 Work Plan have been satisfied. Accordingly, the TCRA should be considered an appropriate long-term remedy for this area of the Site.

6. CERTIFICATION STATEMENT

"Under penalty of law, I certify that to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of the report, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Jeffrey J. Loureiro, P.E., LEP
Project Coordinator

TABLES

Table A.1
SUMMARY OF PCDDs/PCDFs DETECTED IN GROUNDWATER
Centredale Manor, North Providence, Rhode Island

Loureiro Engineering Associates, Inc.

	Location ID	MW-GWR-001	MW-GWR-001 (DUPLICATE)	MW-GWR-002	EQUIPMENT RINSATE BLANK SAMPLE	PERFORMANCE EVALUATION SAMPLE
	Sample ID	1138338UF	1138342UF	1138339UF	1138343UF	1138344
	Lab. Number	G0B040517-2	G0B040517-10	G0B040517-4	G0B040517-12	G0B250507-1
Constituent	Units					
2,3,7,8-TCDD	pg/L	1.8 JQ J EMPC	1.7 JQ J EMPC	6.7 J J	ND<0.87	68
Total TCDD	pg/L	1.8 J EMPC	1.7 J EMPC	6.7 J	ND<0.87	68
1,2,3,7,8-PeCDD	pg/L	ND<1.8	ND<1.7	ND<1.8	ND<1.9	ND<0.60
Total PeCDD	pg/L	ND<1.8	ND<1.7	ND<1.8	ND<1.9	ND<0.60
1,2,3,4,7,8-HxCDD	pg/L	ND<1.3	ND<1.5	1.9 J J	ND<1.7	ND<0.49
1,2,3,6,7,8-HxCDD	pg/L	ND<1.0	ND<1.1	1.6 J J	ND<1.3	ND<0.40
1,2,3,7,8,9-HxCDD	pg/L	ND<1.0	ND<1.2	ND<1.3	ND<1.3	ND<0.42
Total HxCDD	pg/L	ND<1.3	ND<1.5	3.6 J	ND<1.7	ND<0.49
1,2,3,4,6,7,8-HpCDD	pg/L	1.8 J J	2 J J	1.6 J J	ND<1.1	1.6 JB J
Total HpCDD	pg/L	3.1 J	3.6 J	2.7 J	1.4	3.8 J
OCDD	pg/L	7.5 JQB U	9.1 JB J	7.9 JQB U	4.8 JBQ J EMPC	4.6 JQB J
2,3,7,8-TCDF	pg/L	ND<0.39	ND<0.46	ND<0.43	ND<0.40	ND<0.30
Total TCDF	pg/L	ND<0.39	ND<0.46	3.1	ND<0.40	ND<0.30
1,2,3,7,8-PeCDF	pg/L	ND<0.58	ND<0.60	1.2 JQ J EMPC	ND<0.59	ND<0.38
2,3,4,7,8-PeCDF	pg/L	ND<0.60	ND<0.62	1.4 JQ J EMPC	ND<0.61	ND<0.40
Total PeCDF	pg/L	ND<0.60	ND<0.62	5.4 J EMPC	ND<0.61	ND<0.40
1,2,3,4,7,8-HxCDF	pg/L	0.5 JQB U	0.71 JQB U	1.6 JB J	ND<0.53	ND<0.34
1,2,3,6,7,8-HxCDF	pg/L	0.49 JB U	0.67 JQB U	1.6 JB U	ND<0.44	ND<0.31
2,3,4,6,7,8-HxCDF	pg/L	0.54 JQ U	0.68 JB U	1.5 JQB U	0.51 JB J	ND<0.33
1,2,3,7,8,9-HxCDF	pg/L	ND<0.43	0.64 JQ U	0.99 JQ U	ND<0.54	ND<0.38
Total HxCDF	pg/L	1.5 U	2.7 U	5.6 U	0.51 J	ND<0.38
1,2,3,4,6,7,8-HpCDF	pg/L	1.3 J J	1.2 JQ J EMPC	1.6 JQ J EMPC	ND<0.72	1.2 JB J
1,2,3,4,7,8,9-HpCDF	pg/L	ND<0.69	0.79 J J	0.82 JQ J EMPC	ND<0.84	ND<0.46
Total HpCDF	pg/L	2.0 J	2.6 J EMPC	2.4 J EMPC	ND<0.84	2.3 J
OCDF	pg/L	2.2 JB U	2.9 JB U	2.7 JQB U	1.4 JB J	2.2 JB J

NOTES:

Laboratory analytical results, as reported by TestAmerica are presented in black-face type. Data validation qualifiers,as provided by Environmental Standards, Inc. are presented in red-face type.

Laboratory Analytical Qualifiers: B = Method blank contamination; the associated method blank contains the target analyte at a reportable level. J = Estimated Result.
Q = Estimated Maximum Possible Concentration (EMPC).

Data Validation Qualifiers: J = Quantitation is approximate due to limitations identified during the quality assurance review. U = This compound should be considered "not detected" because it was detected in a blank at a similar level. EMPC = Chromatographic peaks are present in the expected retention time window; however, the peaks do not meet all of the conditions required for a positive identification. The reported result represents the estimated maximum possible concentration if the PCDD/PCDF was present.

ND = Not Detected. ND<1.8 = Not Detected at a concentration at or above the Estimated Detection Limit (1.8 pg/L).

Table A.2
DATA QUALIFIED BASED ON BLANK CONTAMINATION
Centredale Manor, North Providence, Rhode Island

Loureiro Engineering Associates, Inc.

Sample ID	Constituent	Result	Footnotes	Validation Result	Validation Qualifier	Units	Reporting Limit
1138338UF	1,2,3,6,7,8-HxCDF	0.49	J B	0.49	U	pg/L	48
1138338UF	OCDF	2.2	J B	2.2	U	pg/L	95
1138338UF	OCDD	7.5	J Q B	7.5	U	pg/L	95
1138338UF	1,2,3,4,7,8-HxCDF	0.5	J Q B	0.5	U	pg/L	48
1138338UF	2,3,4,6,7,8-HxCDF	0.54	J Q B	0.54	U	pg/L	48
1138339UF	1,2,3,6,7,8-HxCDF	1.6	J B	1.6	U	pg/L	48
1138339UF	OCDD	7.9	J Q B	7.9	U	pg/L	95
1138339UF	2,3,4,6,7,8-HxCDF	1.5	J Q B	1.5	U	pg/L	48
1138339UF	OCDF	2.7	J Q B	2.7	U	pg/L	95
1138342UF	2,3,4,6,7,8-HxCDF	0.68	J B	0.68	U	pg/L	47
1138342UF	OCDF	2.9	J B	2.9	U	pg/L	94
1138342UF	1,2,3,4,7,8-HxCDF	0.71	J Q B	0.71	U	pg/L	47
1138342UF	1,2,3,6,7,8-HxCDF	0.67	J Q B	0.67	U	pg/L	47

NOTES:

Data qualifiers provided by Environmental Standards, Inc. based on a Quality Assurance Review of the TestAmerica Laboratory Analytical Report for groundwater samples obtained on February 2, 2010.
J = Quantitation is approximate due to limitations identified during the quality assurance review.
B = Method blank contamination; the associated method blank contains the target analyte at a reportable level.
Q = Estimated Maximum Possible Concentration (EMPC).
U = Not Detected due to the presence of this compound in an associated blank.
pg/L = picograms per liter

Table A.3
DATA QUALIFIED AS ESTIMATED MAXIMUM POSSIBLE CONCENTRATIONS
Centredale Manor, North Providence, Rhode Island

Loureiro Engineering Associates, Inc.

Sample ID	Constituent	Result	Footnotes	Validation Result	Validation Qualifier	Units	Reporting Limit
1138338UF	2,3,7,8-TCDD	1.8	J Q	1.8	J EMPC	pg/L	9.5
1138338UF	Total TCDD	1.8		1.8	J EMPC	pg/L	9.5
1138339UF	1,2,3,7,8-PeCDF	1.2	J Q	1.2	J EMPC	pg/L	48
1138339UF	2,3,4,7,8-PeCDF	1.4	J Q	1.4	J EMPC	pg/L	48
1138339UF	Total PeCDF	5.4		5.4	J EMPC	pg/L	48
1138339UF	1,2,3,4,6,7,8-HpCDF	1.6	J Q	1.6	J EMPC	pg/L	48
1138339UF	1,2,3,4,7,8,9-HpCDF	0.82	J Q	0.82	J EMPC	pg/L	48
1138339UF	Total HpCDF	2.4		2.4	J EMPC	pg/L	48
1138342UF	2,3,7,8-TCDD	1.7	J Q	1.7	J EMPC	pg/L	9.4
1138342UF	Total TCDD	1.7		1.7	J EMPC	pg/L	9.4
1138342UF	1,2,3,4,6,7,8-HpCDF	1.2	J Q	1.2	J EMPC	pg/L	47
1138342UF	Total HpCDF	2.6		2.6	J EMPC	pg/L	47
1138343UF	OCDD	4.8	J Q B	4.8	J EMPC	pg/L	97

NOTES:

Data qualifiers provided by Environmental Standards, Inc. based on a Quality Assurance Review of the TestAmerica Laboratory Analytical Report for groundwater samples obtained on February 2, 2010.
J = Quantitation is approximate due to limitations identified during the quality assurance review.
B = Method blank contamination; the associated method blank contains the target analyte at a reportable level.
Q = Estimated Maximum Possible Concentration (EMPC).
pg/L = picograms per liter

Table A.4
DATA QUALIFIED AS ESTIMATED
CONCENTRATIONS LESS THAN THE LOWER CALIBRATION LIMITS
Centredale Manor, North Providence, Rhode Island

Loureiro Engineering Associates, Inc.

Sample ID	Constituent	Result	Footnotes	Validation Result	Validation Qualifier	Units	Reporting Limit
1138338UF	1,2,3,4,6,7,8-HpCDD	1.8	J	1.8	J	pg/L	48
1138338UF	Total HpCDD	3.1		3.1	J	pg/L	48
1138338UF	1,2,3,4,6,7,8-HpCDF	1.3	J	1.3	J	pg/L	48
1138338UF	Total HpCDF	2.0		2.0	J	pg/L	48
1138338UF	2,3,7,8-TCDD	1.8	J Q	1.8	J EMPC	pg/L	9.5
1138338UF	Total TCDD	1.8		1.8	J EMPC	pg/L	9.5
1138339UF	2,3,7,8-TCDD	6.7	J	6.7	J	pg/L	9.5
1138339UF	Total TCDD	6.7		6.7	J	pg/L	9.5
1138339UF	1,2,3,4,7,8-HxCDD	1.9	J	1.9	J	pg/L	48
1138339UF	1,2,3,6,7,8-HxCDD	1.6	J	1.6	J	pg/L	48
1138339UF	Total HxCDD	3.6		3.6	J	pg/L	48
1138339UF	1,2,3,4,6,7,8-HpCDD	1.6	J	1.6	J	pg/L	48
1138339UF	Total HpCDD	2.7		2.7	J	pg/L	48
1138339UF	1,2,3,4,7,8-HxCDF	1.6	J B	1.6	J	pg/L	48
1138339UF	1,2,3,7,8-PeCDF	1.2	J Q	1.2	J EMPC	pg/L	48
1138339UF	2,3,4,7,8-PeCDF	1.4	J Q	1.4	J EMPC	pg/L	48
1138339UF	Total PeCDF	5.4		5.4	J EMPC	pg/L	48
1138339UF	1,2,3,4,6,7,8-HpCDF	1.6	J Q	1.6	J EMPC	pg/L	48
1138339UF	1,2,3,4,7,8,9-HpCDF	0.82	J Q	0.82	J EMPC	pg/L	48
1138339UF	Total HpCDF	2.4		2.4	J EMPC	pg/L	48
1138342UF	1,2,3,4,6,7,8-HpCDD	2.0	J	2.0	J	pg/L	47
1138342UF	Total HpCDD	3.6		3.6	J	pg/L	47
1138342UF	OCDD	9.1	J B	9.1	J	pg/L	94
1138342UF	1,2,3,4,7,8,9-HpCDF	0.79	J	0.79	J	pg/L	47
1138342UF	2,3,7,8-TCDD	1.7	J Q	1.7	J EMPC	pg/L	9.4
1138342UF	Total TCDD	1.7		1.7	J EMPC	pg/L	9.4
1138342UF	1,2,3,4,6,7,8-HpCDF	1.2	J Q	1.2	J EMPC	pg/L	47
1138342UF	Total HpCDF	2.6		2.6	J EMPC	pg/L	47
1138343UF	2,3,4,6,7,8-HxCDF	0.51	J B	0.51	J	pg/L	49
1138343UF	Total HxCDF	0.51		0.51	J	pg/L	49
1138343UF	OCDF	1.4	J B	1.4	J	pg/L	97
1138343UF	OCDD	4.8	J Q B	4.8	J EMPC	pg/L	97

NOTES:
Data qualifiers provided by Environmental Standards, Inc. based on a Quality Assurance Review of the
J = Quantitation is approximate due to limitations identified during the quality assurance review.
B = Method blank contamination; the associated method blank contains the target analyte at a reportable level.
Q = Estimated Maximum Possible Concentration (EMPC).
pg/L = picograms per liter

DRAWING

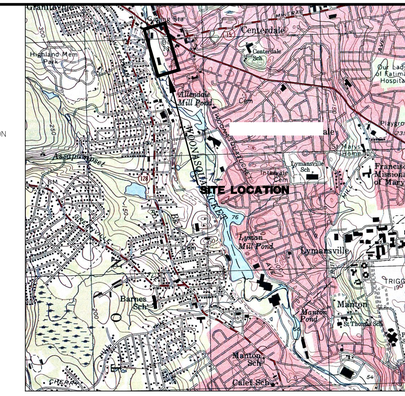
TABLE 1
DEPTH-TO-WATER MEASUREMENTS
February 2, 2010
Centredale Manor Restoration Project Superfund Site
North Providence, Rhode Island

Well/Piezometer ID	Well/Piezometer Elevation[1]	Well/Piezometer Diameter (in.)	Depth-To-Water	Groundwater Elevation
GEC-1	104.41	2	7.53	96.88
GEC-3	103.70	2	7.19	96.51
GEC-5	103.52	2	7.60	95.92
GEC-6	100.21	2	4.30	95.91
MW-GWR-001	NA	2	9.85	NA
MW-GWR-002	NA	2	7.49	NA
MW-01S	99.27	2	3.33	95.94
MW-02S	97.25	2	2.82	94.43
MW-03S	100.61	2	4.44	96.17
MW-04S	98.83	2	4.58	94.25
MW-06S	100.56	2	4.97	95.59
MW-07S	98.44	2	NA	NA
MW-09S	100.59	2	6.20	94.39
MW-10B	108.11	2	11.75	96.36
TMW3	104.98	2	NA	NA
MW-14M	100.08	2	3.99	96.09
MW-15D	102.72	2	6.40	96.32
PZ-LEA-01	101.69	2	6.14	95.55
PZ-LEA-02	102.23	2	6.59	95.64
PZ-LEA-03	101.65	2	5.90	95.75
P3	103.44	1	7.36	96.08
P4	98.65	1	2.47	96.18
P5	101.70	1	6.49	95.21
P6	97.64	1	1.77	95.87
P7	97.65	1	2.45	95.20
P8	98.83	1	3.58	95.25
P9	97.64	1	2.30	95.34
P10	98.17	1	3.23	94.94
P11	98.24	1	3.27	94.97
P12	98.28	1	3.01	95.27
P13	97.49	1	3.02	94.47
P15	94.93	1	0.74	94.19
P16	105.17	1	8.31	96.86
P17	95.93	1	1.77	94.16
P19	104.60	1	8.27	96.33
P21	100.06	1	4.31	95.75
SP-05	98.95	NA	3.15	95.80
Staff Gauge (West Bank)	97.40	NA	2.42	94.98

Notes
DTW = Depth-To-Water
in = Inches
NA = Not Available
1. Feet Above Mean Sea Level.
2. Piezometer P-12 data not used to configure contours; the Depth-To-Water measurement at this location is suspect and not believed to be accurate.

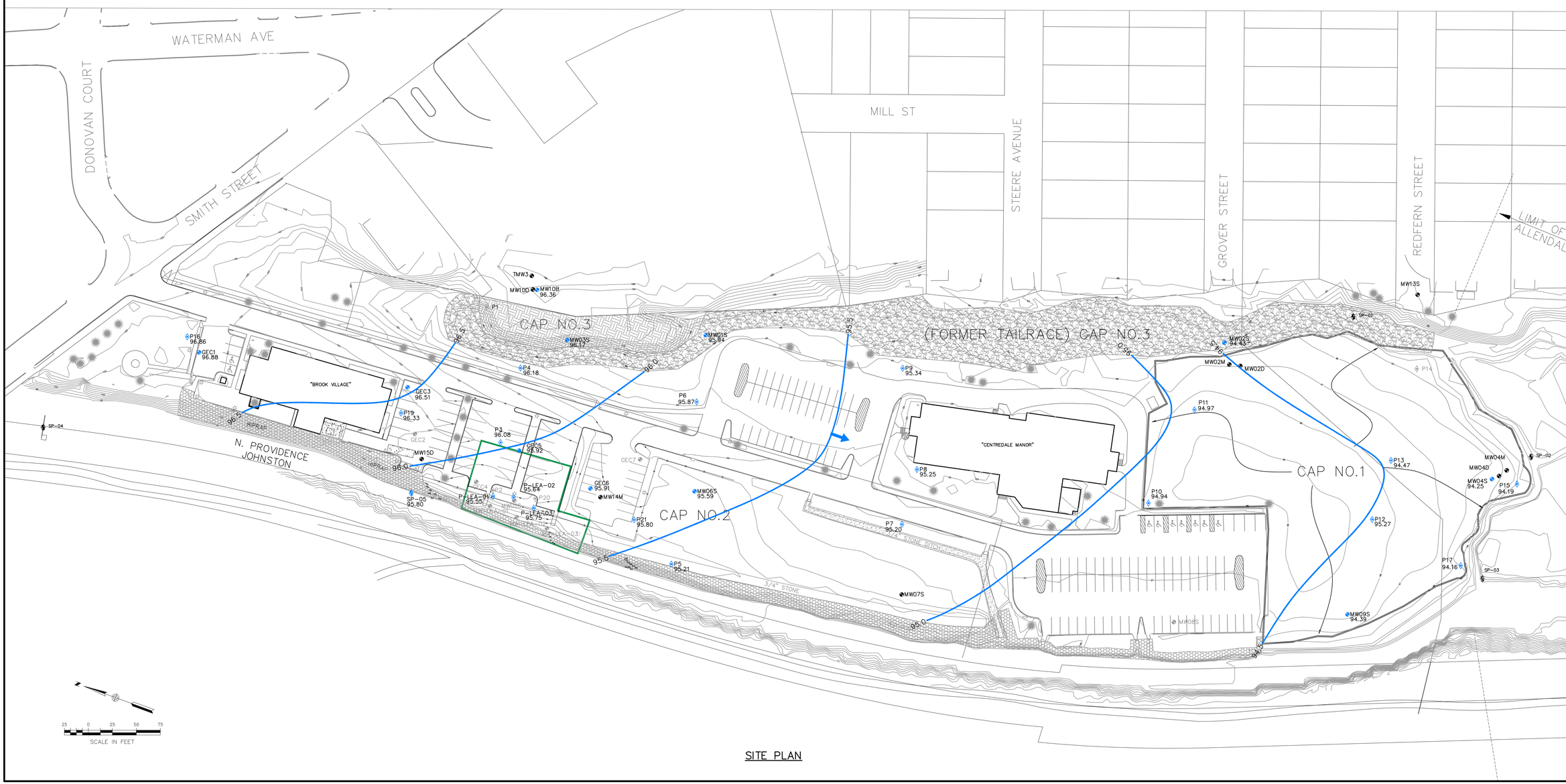
LEGEND

- LIGHT POLE
- UTILITY BOX
- TREE
- 103 — GROUND SURFACE ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL
- GROUNDWATER ACTION AREA
- MONITORING WELL
- PIEZOMETER
- STAFF GAUGE
- ABANDONED MONITORING WELL
- ABANDONED PIEZOMETER
- 95.5 — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL.
- APPROXIMATE GROUNDWATER FLOW DIRECTION



MAP REFERENCE:
USGS 7.5 MINUTE SERIES QUADRANGLE FOR PROVIDENCE, R.I., DATED 1996

1200 0 1200 2400 3600
SCALE IN FEET



SITE PLAN

REV.	DESCRIPTION OF REVISION	DATE	APPR.

Laureiro Engineering Associates, Inc.
100 Northwest Drive • Plainville, Connecticut 06062
Phone: 860-747-6181 / fax: 860-747-8822
An Employee Owned Company • email : info@laureiro.com

SCALE: AS SHOWN
COMM. NO. 15RP601
DRAWN BY A.C.L. DATE 04/05/10
APPROVED BY D.N.S. DATE 04/05/10

CENTREDALE MANOR RESTORATION PROJECT SUPERFUND SITE
NORTH PROVIDENCE, RHODE ISLAND

GROUNDWATER ELEVATIONS FEBUARY 2, 2010

An Employee Owned Company

DRAWING A.1

SHEET NO. 1 NO. OF SHEETS 1

G:\AutoCad Projects\Centredale\Centredale_Area\Var 2010\Shadow date 2010-01-01\Dwg. ID: Saved: 4/29/2010 3:09 PM Plotted: 4/29/2010 9:23 AM

ATTACHMENT A.1

Field Report Forms

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	15RP901.009	Page 1 of 5
Project	Piezometer Installlation & Development	Date 11/5/09
Location	Centredale Manor, North Providence, RI	
Client	Sullivan & Worcester, LLP	

Arrived at Site 1000 Departed from Site 1530 Vehicle ___

Odometer (Start)Re ___ turn ___

Site Activities

- [ ] Soil Sampling
- [ ] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used ___

Last Location ID Used ___

Current Location (if not complete) ___

Sampling for ___

Laboratories used ___

Paperwork & Equipment left at/in LEA

Site Contact ___

Contractors on Site ___

Time and place to meet contractors ___

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
✓			Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	~55	RP-CT-001
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 50° Precipitation No Wind No

Comments

Checked By

Expendable Items Used			Equipment Used		
Qty	Item	LEA Number	Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090		Balance, Pocket Pro	061
	Coliwasa Disposable Sample Tubes	204		Dump Hopper	193
✓	Decontamination Supplies	081	✓	Meter, pH/Temp	021
✓	Drum, Closed Top 55 Gallon	086	✓	Miscellaneous Small Tools & Equipment	152
	Drum, Open Top 55 Gallon	086		Pallet, Spill	161
	Filter, In Line	024		Pump, Grundfos	073
	Filter, Zap Cap	024		Pump, Peristaltic (spec. Master or Isco)	040
✓	Miscellaneous Health & Safety Items	060		Pump, Submersible	201
	Tubing, 3/8", NOS	008	✓	Pump, Watera	038
	Water, Distilled	025		Tank, 300 Gallon Storage	160
				Thermo-Anemometer	248
			✓	Turbidimeter	023
				VOC Analyzer, Photovac 2020 (PID)	012
			✓	Water Level Indicator	028

Field Personnel Robert Zurkowski
Rich D'Amico

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	15RP901.009	Page 2 of ___
Project	Piezometer Installlation & Development	Date 11/15/07
Location	Centredale Manor, North Providence, RI	
Client	Sullivan & Worcester, LLP	

Description of Site Activities

1000 Onsite setup on wells + calibrate equipment
1130 ~~Start~~ RD starts Road pipes
1430 Rob Z finish Well Development
1500 Pack up
1530 offsite

RD

Field Personnel Robert Zurkowski
Rich D'Amico

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	15RP901.009	Page 3 of 3
Project	Piezometer Installlation & Development	Date 11/5/09
Location	Centredale Manor, North Providence, RI	
Client	Sullivan & Worcester, LLP	

pH Meter/Serial # 3

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	1045	3.99	6.99	10.00	999.9	~~[illegible]~~	
Calibration Check							
Calibration Check							

Turbidity Meter/Serial # 3519

	Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration	1100	0	20	100	
Calibration Check					
Calibration Check					

PID Meter/Serial #

	Time	Standard	Meter Reading	Zero with
Initial Calibration				
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel: Robert Zurkowski, Rich D'Amico

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
WELL DEVELOPMENT

LEA Comm. No.	15RP901.009	Page 4 of 5
Project	Piezometer Installlation & Development	Date 11/5/07
Location	Centredale Manor, North Providence, RI	Time ___:___
Client	Sullivan & Worcester, LLP	

Monitoring Well Number MW-6WR-02 Sample Number(s) ~~(40)~~

Initial Field Data and Measurements

Depth of Well 18.90 Reference Used TOC
Depth to Water 7.83 PID/FID Reading N/A
Height of Column 11.13 Interface N/A ~~Yes / No~~ ~~If yes, Depth~~ ~~Lighter / Heavier~~

Well Casing Diameter 2" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)		

Development Information

Purge Volume Factors
0.5" - 0.01
1" - 0.041
1.5" - 0.091
2" - 0.16
4" - 0.65
6" - 1.5

Volumes / Parameter	Gallons	Temp (C)	pH (SU)	Spec.Con.	Turbidity	~~Other~~ Gall	Turb
Initial	0	11.7	7.54	225	<1000	27.0	26
1	1.8	11.2	7.53	266	<1000	28.0	24.9
2	3.6	11.1	7.58	192.1	421	30.6	22.2
3	5.40	11.0	7.56	189.9	271	32.4	21.8
4	7.20	10.9	7.51	190.8	174	34.20	20.9
5	9.00	10.8	7.42	190.2	124	36.00	21.2
6	10.80	10.9	7.38	190.2	91	37.80	14.2
7	12.60	10.8	7.36	189.2	68	39.60	6.32
8	14.40	10.8	7.31	189.5	55	41.40	4.80
9	16.20	10.7	7.31	189.2	50		
10	18.00	10.8	7.28	190.1	49		
11	19.80	10.8	7.27	189.5	52		
12	21.60	10.8	7.28	189.2	50		
13	23.40	10.8	7.27	189.7	31		
14	25.20	10.7	7.27	184.4	28		

Initial Sample Observations
- Clear ☐
- Colored ☐
- Cloudy ☐
- Turbid ✓
- Odor ☐
- Sheen ☐

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Waterra pump
Field Decontamination? Yes / No If Yes, with what? Hydrox, DI, Methanol
Waste Container ID RP-CT-001

Additional Comments

Pumped for 2hrs @ 1 gallon per minute. I was able to slow purge rate to ½ gallon per minute and achive low trubidity. Purged at ½ gallon per minute for about an hour.

Field Personnel Robert Zurkowski
Rich D'Amico

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
WELL DEVELOPMENT

LEA Comm. No.	15RP901.009	Page 5 of 5
Project	Piezometer Installlation & Development	Date 11/5/09
Location	Centredale Manor, North Providence, RI	Time __:__
Client	Sullivan & Worcester, LLP	

Monitoring Well Number MW-GWR-01 Sample Number(s) ~~[illegible]~~

Initial Field Data and Measurements

Depth of Well 21.5 Reference Used TOR
Depth to Water 10.0 PID/FID Reading NA
Height of Column 11.5 Interface NA ~~Yes / No~~ ~~If yes, Depth~~ ~~Lighter~~ / Heavier

Well Casing Diameter 2" Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)		

Development Information

Purge Volume Factors
0.5" - 0.01
1" - 0.041
1.5" - 0.091
2" - 0.16
4" - 0.65
6" - 1.5

Initial Sample Observations
Clear
Colored
Cloudy
Turbid X
Odor
Sheen

Volumes \ Parameter	Gallons	Temp (C)	pH (SU)	Spec.Con.	Turbidity	Other
Initial	0	11.4	9.15	195.8	<1000	
1	1.84	11.2	8.55	193.9	215	
2	3.68	11.3	8.29	196.6	134	
3	5.52	11.3	8.04	198.3	69.8	
4	7.32	11.2	8.02	196.7	25.1	
5	9.12	11.2	7.98	196.0	17.4	
6	10.96	11.3	7.74	196.0	9.94	
7	12.80	11.3	7.59	195.9	8.64	
8	14.64	11.2	7.52	195.1	7.23	
9	16.48	11.2	7.54	194.8	5.31	
10	18.32	11.3	7.53	195.2	4.18	
11	20.16	11.2	7.52	194.6	4.81	

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Waterra pump
Field Decontamination? Yes / No If Yes, with what? Liquinox, DI, Methanol
Waste Container ID RP-CT-001

Additional Comments

Purged at about ½ gallon per minute for about 2hrs.

Field Personnel Robert Zurkowski
Rich D'Amico

Signature [illegible]

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	15RP901.010		Page 1 of 7
Project	Groundwater Sampling		Date 2/2/10
Location	Centredale Manor, North Providence, RI		
Client	Sullivan & Worcester, LLP		

Arrived at Site 930 Departed from Site 1830 Vehicle ST-12

Odometer (Start)Return 210 RT

Site Activities

- [ ] Soil Sampling
- [x] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used	
Last Location ID Used	
Current Location (if not complete)	field
Sampling for	Dixons
Laboratories used	Test America
Paperwork & Equipment left at/in	office
Site Contact	Dave Briel
Contractors on Site	LEA

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Time and place to meet contractors

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
✓			Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	2.5 L	RP-GT-001
Decon Fluid		
PPE	5 gallons	RP-GT-001
Other		

Weather Conditions

Temperature 25 Precipitation None Wind Slight

Comments

Checked By

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
1	Drum, Closed Top 55 Gallon	086
3	Filter, In Line	024
1	Miscellaneous Health & Safety Items	060
40'	Tubing, 1/2", NOS Teflon 1/4"	007
	Tubing, 3/8", NOS	008
	Water, Distilled	025

Equipment Used

Qty	Item	LEA Number
	Generator 3500 Watt	153
	Meter, Conductivity	022
	Meter, pH/Temp	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
2	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
2	Turbidimeter	023
1	VOC Analyzer, Photovac 2020 (PID)	012
2	Water Level Indicator	028
2	Water Quality Meter w/Flow Cell	070

Field Personnel Keith Volkert
Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	15RP901.010	Page 2 of 7
Project	Groundwater Sampling	Date 2/2/10
Location	Centredale Manor, North Providence, RI	
Client	Sullivan & Worcester, LLP	

Description of Site Activities

930 - On site
- calibrate equipment
1030 - Set up on wells and start purging
1330 - N. Emmons starts water levels
1400 - K. Volkert helps with water levels
1600 - water levels completed
- MW-GWR-001 finish sampling
1800 - MW-GWR-002 finish sampling
1830 - off site

- During water levels N. Emmons was able to find P13 with sounstaff
- N. Emmons was unable to locate MW-07s - dug in well location, ~~but~~ due to ground being frozen unable to locate well.
- K. Volkert had to switch out YSI (flow cell) due to missing O-ring water would fill to about half then equal out water leaking to water intake.

Field Personnel: Keith Volkert, Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**15RP901.010**
Project	Groundwater Sampling
Location	Centredale Manor, North Providence, RI
Client	Sullivan & Worcester, LLP

Page 4 of 7
Date 2/2/10

pH Meter/Serial # time = 940

	~~Time #~~	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	0616082 AK	✓	✓	✓	1000	101	100
Calibration Check	09J100085	✓	✓	✓	1001	99	99
Calibration Check							

Turbidity Meter/Serial # time = 950

	~~Time #~~	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration	3514	✓	✓	✓	✓
Calibration Check	3521	✓	✓	✓	✓
Calibration Check					

PID Meter/Serial # 30449

	Time	Standard	Meter Reading	Zero with
Initial Calibration	1000	100	100	Ambient Air
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel: Keith Volkert, Nate Emmons

Signature

TABLE 1
DEPTH-TO-WATER MEASUREMENTS
February 2, 2010
Centredale Manor Restoration Project Superfund Site
North Providence, Rhode Island

Well/Piezometer ID	Well/Piezometer Elevation[1]	Well/Piezometer Diameter (in.)	DTB[2]	DTW[2]
GEC-1	104.41	2	7.53	7.53
GEC-3	103.70	2		7.19
GEC-5	103.52	2		7.6
GEC-6	100.21	2		4.3
MW-GWR-001				9.85
MW-GWR-002				7.49
MW-01S	99.27	2		3.33
MW-02S	97.25	2		2.82
MW-03S	100.61	2		4.44
MW-04S	98.83	2		4.58
MW-06S	100.56	2		4.97
MW-07S	98.44	2		
MW-09S	100.59	2		6.20
MW-10B	108.11	2		11.75
TMW3	104.98	2		
MW-14M	100.08	2		3.99
MW-15D	102.72	2		6.4
PZ-LEA-01	101.69	2		6.14
PZ-LEA-02	102.23	2		6.59
PZ-LEA-03	101.65	2		5.9
P3	103.44	1		7.36
P4	98.65	1		2.47
P5	101.70	1		6.49
P6	97.64	1		1.77
P7	97.65	1		2.45
P8	98.83	1		3.58
P9	97.64	1		2.30
P10	98.17	1		3.23
P11	98.24	1		3.27
P12	98.28	1		3.01
P13	97.49	1		3.02
P15	94.93	1		.74
P16	105.17	1		8.31
P17	95.93	1		1.77
P19	104.60	1		8.27
P21	100.06	1		4.31
SP-05	98.95	NA		3.15
Staff Gauge (West Bank)	97.40	NA		2.42

4.76

Notes:

DTB = Depth to Bottom / DTW = Depth to Water

in = inches

NA = Not Available

[1] Elevations surveyed by Guerriere & Halnon, Inc. in feet above mean sea level.

[2] Measured to the nearest 0.01 feet from top of casing.

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No.	15RP901.010	Page 5 of 7
Project	Groundwater Sampling	Date 2/2/10
Location	Centredale Manor, North Providence, RI	
Client	Sullivan & Worcester, LLP	

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1138340	MW6WR-002	1152-	MS	—	—	MS	
1138341	MW-6WR-002	1152-	MSD	—	—	MSD	
1138342	MW-6WR-002W	1130-	Dup	—	—	Duplicate	
1138343	Equipment Blank	1630	EBK	—	—	Equipment Blank	
1138344	PE Sample	1630	PE	—	—	PE Sample	

Field Personnel: Keith Volkert, Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	15RP901.010	Page 6 of 7
Project	Groundwater Sampling	Date 2/2/10
Location	Centredale Manor, North Providence, RI	Sample Time 11:30
Client	Sullivan & Worcester, LLP	1138342 1138342vt

Monitoring Well Number WW-GWR-001 Sample Number(s) 1138338 1138338 vt

Initial Field Data and Measurements

Depth of Well —
Depth to Water 9.35
Height of Column —
Reference Used T of R
PID/FID Reading —
Interface Yes (No) If yes, Depth ____ Lighter / Heavier

Well Casing Diameter 2"
Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	** Purge Rate (mL/min)	Cum. Liters Purged (L)	* Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
10:55	9.50	1.55	40								
11:02	NT	↓	↓	↓	5.56	277	7.53	147.9	13.76	1.49	
11:10	NT				5.52	252	5.89	-54.7	11.17	0.89	
11:20	NT				5.53	247	5.39	-73.2	10.60	0.83	
11:25	NT				5.52	247	5.41	-74.9	9.80	0.82	
11:30	NT	1.55	40	1.4	5.59	248	5.38	-73.6	9.65	0.82	
Sample											

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? Liquinox, DI, Hexane, 2-Propanol or WVI
Waste Container ID RP-CT-001

Additional Comments

* Temp is effected by Ambient Air not necessary LW
** Purge Rate measure by a Graduated Cylinder

Field Personnel Keith Volkert
Nate Emmons

Signature Nathan Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	15RP901.010	Page 7 of 7
Project	Groundwater Sampling	Date 2/2/10
Location	Centredale Manor, North Providence, RI	Sample Time 11:52
Client	Sullivan & Worcester, LLP	

Monitoring Well Number MW-GWR-002 Sample Number(s) 1138339 1138332QC 1138340 1138340QC 1138341 1138341QC

Initial Field Data and Measurements

Depth of Well ——
Depth to Water 7.49
Height of Column ——
Reference Used TOR
PID/FID Reading ——
Interface Yes / (No) If yes, Depth NA Lighter / Heavier

Well Casing Diameter 2 Material PVC
Protector Road Box / Stickup
Ground to Reference ——
Comments ——

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time / Parameter	Depth to Water	Pump Setting	** Purge Rate (mL/min)	Cum. Liters Purged (L)	* Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1052	7.49	1.28	40	← START PUMPING							
~~1116~~	~~7.49~~	~~1.28~~	~~40~~		~~2.05~~	~~NT~~	~~7.14~~	~~102.1~~	~~16.41~~	~~1.03~~	~~**~~
1137	7.49	1.28	40		2.76	144	5.39	-62.9	11.17	0.76	
1140	7.49	1.28	40		2.92	145	5.40	-72.2	10.44	0.62	
1143	7.49	1.28	40		3.00	145	5.40	-73.9	10.16	0.46	
1146	7.49	1.28	40		3.10	145	5.40	-73.8	10.95	0.43	
1149	7.49	1.28	40		2.83	143	5.35	-72.5	10.65	0.34	
1152	7.49	1.28	40	.6	2.82	143	5.33	-71.7	10.49	0.28	SAMPLE

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? Liquinox, DI, Hexane, 2-Propanol and DI
Waste Container ID RP-CT-001

Additional Comments

* Temp is effected by Ambient Air not necessarily GW
1138340 - MS
** Purge Rate was measure by a graduated cylinder
1138341 - MSD
- YSI swatchout after 1116 reading due to leakage of flowcell

Field Personnel Keith Volkert
Nate Emmons

Signature

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Numb
Loureiro Engineering Assoc.	Dave Scotti	2/2/10	13316
Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page ____ o
100 Northwest Dr	860-747-6181 / Fax 860-747-8822		
City / State / Zip Code	Site Contact	Lab Contact	
Plainville / CT / 06062	Dave Brisel		
Project Name and Location (State)	Carrier/Waybill Number		
GW Sampling Centredale Manor RI			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Fe2	PCDD's/PCDF's EPA 8290A	Special Instr Conditions o
1138338	2/2/10	1130		X									2	X	
1138338uf		1130		X									2	X	
1138339		1152		X									2	X	
1138339uf		1152		X									2	X	
1138340		1152		X									2	X	
1138340uf		1152		X							KV 2/3/10		~~2~~ 1	X	
TEMP BLANK															
~~1138341~~		~~1152~~		~~X~~									~~2~~	~~X~~	KV 2/3/10
~~1138341uf~~		~~1152~~		~~X~~									~~2~~	~~X~~	KV 2/3/10
~~1138342~~		~~1130~~		~~X~~									~~2~~	~~X~~	KV 2/3/10
~~1138342uf~~		~~1130~~		~~X~~									~~2~~	~~X~~	KV 2/3/10
~~1138343~~		~~1130~~ 1630		~~X~~									~~2~~	~~X~~	KV 2/3/10
~~1138343uf~~	2/2/10	~~1130~~ 1630		~~X~~									~~2~~	~~X~~	KV 2/3/10

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retai longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

Relinquished By	Date	Time	Received By	Date	Tim
1. [signature]	2/3/10	1600	1.		
2.			2.		
3.			3.		

Comments
EDD and Data Validation Package deliverables

Cooler # 540287

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Loureiro Engineering Assoc	Project Manager: Dave Scotti	Date: 2/2/10	Chain of Custody Numb: 13316
Address: 100 Northwest Dr	Telephone Number (Area Code)/Fax Number: 8607476181 / 8607478822	Lab Number	Page _____ o
City: Plainville; State: CT; Zip Code: 06062	Site Contact: Dave Brtel	Lab Contact	
Project Name and Location (State): GW Sampling Centredale Manor RI	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): RCRA PCB 8082 EPA 8260-4

Special Instr Conditions o

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	DL	RCRA PCB 8082 EPA 8260-4
1138343 uf	2/2/10	1630		X										2	X
Temp Blank	2/2/10													1	
1138344	2/2/10	1630		X										2	X
														2/3/10	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retain longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Tim
1. Relinquished By	2/3/10	1600	1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: EDD and Data Validation Package Deliverables

Cooler # 54028

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

104459

GBS

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Numi
Loureiro Engineering Assoc.	Dave Scotti	2/2/10	13318
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	
100 Northwest Dr	8607476181 / 8607478822		Page _____
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Plainville CT 06062	Dave Briel		
Project Name and Location (State)	**Carrier/Waybill Number**		
GWSamplin Centredale Manor RI			
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Special Ins: Conditions c

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	ICE	RCDD/RCDF EPA 8290A
TEMP BLANK	2/2/10													1	
1138340 uf		1152		X										1	X
1138341		1152		X										2	X
1138341 uf		1152		X										2	X
1138342		1130		X										2	X
1138342 uf		1130		X										2	X
1138343	2/2/10	1630		X										2	X

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retai longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Tin
1. Relinquished By	2/3/10	1600	1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments
EDD and Data Validation Package Deliverables

Coolers # 540286

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Numb
Loureiro Engineering Assoc	Dave Scotti	2/2/10	13316
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	
100 Northwest Dr	8607476181 / 8607478822		Page _____ o
City / State / Zip Code	**Site Contact / Lab Contact**		
Plainville / CT / 06062	Dave Briel		
Project Name and Location (State)	**Carrier/Waybill Number**		
GW Sampling Centredale Manor RI			
Contract/Purchase Order/Quote No.			
32002057			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	DCL	RCDD/PCDF SPA szecod	Analysis (Attach list if more space is needed)	Special Instr Conditions o
1138343 uf	2/2/10	1630		X										2	X		
Temp Blank	2/2/10													1			
1138344	2/2/10	1630		X										2	X		

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retain longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify): Follow site-specific QAPP

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	2/3/10	1600	1.		
2.			2.		
3.			3.		

Comments: EDD and Data Validation Package Deliverables

Cooler # 54028

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

104459

GBS

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Numb
Loureiro Engineering Assoc.	Dave Scotti	2/2/10	13316
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** _____ o
100 Northwest Dr	860-747-6181 / Fax 860-747-8822		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Plainville / CT / 06062	Dave Briel		
Project Name and Location (State)	**Carrier/Waybill Number**		
GW Sampling Centredale Manor RI			
Contract/Purchase Order/Quote No.			
32002057			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TCL	PCDDs/PCDFs LPA 8290A											Special Instr Conditions o
1138338	2/2/10	1130		X										2	X											Hold DW 2/5/10
1138338uf		1130		X										2	X											
1138339		1152		X										2	X											Hold
1138339uf		1152		X										2	X											
1138340		1152		X										2	X											Hold
1138340uf		1152		X								KV 2/3/10		2	X											MS
TEMP BLANK																										KV 2/3/10
~~1138341~~		~~1152~~		~~X~~										~~2~~	~~X~~											
~~1138341uf~~		~~1152~~		~~X~~										~~2~~	~~X~~											KV 2/3/10
~~1138342~~		~~1130~~		~~X~~										~~2~~	~~X~~											KV 2/3/10
~~1138342uf~~		~~1130~~		~~X~~										~~2~~	~~X~~											KV 2/3/10
~~1138343~~		~~1130~~ 1630		~~X~~										~~2~~	~~X~~											KV 2/3/10
~~1138343uf~~	2/2/10	~~1130~~ 1630		~~X~~										~~2~~	~~X~~											KV 2/3/10

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retai longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify): Follow Site-specific QAPP

1. Relinquished By	Date	Time	1. Received By	Date	Tim
[signature]	2/3/10	1600			
2. Relinquished By	**Date**	**Time**	**2. Received By**	**Date**	**Tim**
3. Relinquished By	**Date**	**Time**	**3. Received By**	**Date**	**Tim**

Comments: EDD and Data Validation Package deliverables

Cooler # 540287

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

104459

GBS

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Num
Loureiro Engineering Assoc.	Dave Scotti	2/2/10	13318

Address	Telephone Number (Area Code)/Fax Number	Lab Number
100 Northwest Dr	8607476181 / 8607478822	Page _____

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06062	Dave Briel	

Project Name and Location (State): GW Sampling Centredale Manor RI

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.: 32002057

Analysis (Attach list if more space is needed): PCDD/PCDF EPA 8290A

Special Instructions:

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TOC	PCDD/PCDF EPA 8290A	Special Instructions
TEMP BLANK	2/2/10												1		
1138340 uf		1152		X									1	X	CV 2/5/10
1138341		1152		X									2	X	Hold
1138341 uf		1152		X									2	X	MSD
1138342		1130		X									2	X	Hold
1138342 uf		1130		X									2	X	
1138343	2/2/10	1630		X									2	X	Hold

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify): Follow Site-specific QAPP

	Date	Time		Date	Time
1. Relinquished By	2/3/10	1600	1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: EDD and Data Validation Package Deliverables

Cooler # 540286

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

104459

GBS

ATTACHMENT A.2

TestAmerica Laboratory Analytical Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

February 24, 2010

TestAmerica Project Number: G0B040517

Christina Venable
Loureiro Engineering Associate
100 Northwest Drive
Plainville, CT 06062

Dear Ms. Venable,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on February 4, 2010. These samples are associated with your GW Sampling Centredale Manor RI project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4402.

Sincerely,

Jill Kellmann
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G0B040517

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

WATER, 8290A, Dioxins/Furans
Samples: 2, 4, 10, 12
- Sample Data Sheets
- Method Blank Report
- Laboratory QC Reports

Raw Data Package

Case Narrative

TestAmerica West Sacramento Project Number G0B040517

General comments

Several samples were placed on hold per instructions from Christina Venable on February 5, 2010.

WATER, 8290A, Dioxins/Furans
Sample(s): 2, 4, 4, 4, 10, 12
Several analytes in each sample have been qualified with a "Q" flag as the ion abundance ratios are outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio.

There were no other anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G0B040517

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LT76V	2	1138338UF	2/2/2010 11:30 AM	2/4/2010 09:00 AM
LT76X	4	1138339UF	2/2/2010 11:52 AM	2/4/2010 09:00 AM
LT769	10	1138342UF	2/2/2010 11:30 AM	2/4/2010 09:00 AM
LT77C	12	1138343UF	2/2/2010 04:30 PM	2/4/2010 09:00 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

G0B040517

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Loureiro Engineering Assoc.	Dave Scotti	2/2/10	133160
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 3**
100 Northwest Dr	860-747-6181 / Fax 860-747-8822		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Plainville / CT / 06062	Dave Briel		
Project Name and Location (State)	**Carrier/Waybill Number**		
GW Sampling Centredale Manor RI			
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): PCDDs/PCDFs EPA 8290A

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Tcl	PCDDs/PCDFs EPA 8290A	Special Instructions/ Conditions of Receipt
1138338	2/2/10	1130		X										2	X	
1138338uf		1130		X										2	X	
1138339		1152		X										2	X	
1138339uf		1152		X										2	X	
1138340		1152		X										2	X	
1138340uf		1152		X								KV 2/3/10		2	X	
TEMP BLANK																
~~1138341~~		~~1152~~		~~X~~										~~2~~	~~X~~	KV 2/3/10
~~1138341uf~~		~~1152~~		~~X~~										~~2~~	~~X~~	KV 2/3/10
~~1138342~~		~~1130~~		~~X~~										~~2~~	~~X~~	KV 2/3/10
~~1138342uf~~		~~1130~~		~~X~~										~~2~~	~~X~~	KV 2/3/10
~~1138343~~		~~1130~~ 1630		~~X~~										~~2~~	~~X~~	KV 2/3/10
~~1138343uf~~	~~2/2/10~~	~~1130~~ 1630		~~X~~										~~2~~	~~X~~	KV 2/3/10

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	2/3/10	1600	1. Received By: Chang Vue	2/4/10	10 45
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: EDD and Data Validation Package deliverables

Cooler # 540287

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

G0B040517

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Loureiro Engineering Assoc.	Dave Scotti	2/2/10	133161
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
100 Northwest Dr	8607476181 / 8607478822		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Plainville / CT / 06062	Dave Briel		
Project Name and Location (State)	**Carrier/Waybill Number**		
GW Sampling Centredale Manor RI			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICE	Analysis (Attach list if more space is needed): PCB/PCBs EPA 8290A	Special Instructions/ Conditions of Receipt
TEMP BLANK	2/2/10												1		
1138340 uf		1152		X									1	X	
1138341		1152		X									2	X	
1138341 uf		1152		X									2	X	
1138342		1130		X									2	X	
1138342 uf		1130		X									2	X	
1138343	2/2/10	1630		X									2	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	2/3/10	1600	1. Received By	2/4/10	1045
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: EDD and Data Validation Package Deliverables

Codes # 540286

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

G0B040517

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Loureiro Engineering Assoc	Dave Scotti	2/2/10	133162

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 3 of 3
100 Northwest Dr	8607476181 / 8607478822		

City	State	Zip Code	Site Contact	Lab Contact
Plainville	CT	06062	Dave Briel	

Project Name and Location (State)	Carrier/Waybill Number
GW Sampling Centredale Manor RI	

Contract/Purchase Order/Quote No.

Analysis (Attach list if more space is needed): HCDD/PCDF 8290A

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	TCL	HCDD/PCDF 8290A											
1138343 uf	2/2/10	1630		X										2	X											
Temp Blank	2/2/10													1												
* 1138344	2/2/10	1630		X										2	X											
* labeled 1138344 uF - CD 2/4/10																										

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other_____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	2/3/10	1600	1. Received By: C Leng Vue	2/4/10	1045
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: EDD and Data Validation Package Deliverables

Cooler # 540288

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

411111 THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Lourein Eng. PM UK LOG # 63085

LOT# (QUANTIMS ID) G0B040517 QUOTE# 85234 LOCATION W15B

Checked (✓)

DATE RECEIVED 2/4/10 TIME RECEIVED 0900 ☑

DELIVERED BY ☑ FEDEX ☐ ON TRAC ☐ CLIENT

☐ GOLDENSTATE ☐ UPS ☐ GO-GETTERS ☐ OTHER

☐ TAL COURIER ☐ TAL SF ☐ VALLEY LOGISTICS ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) 540286, 540287, 540288

SHIPPPING CONTAINER(S) ☑ TAL ☐ CLIENT ☐ N/A ☑

COC #(S) 133161, 133160, 133162 ☑

TEMPERATURE BLANK Observed: _____ Corrected: See multi-cooler checklist

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: _____ Average _____ Corrected Average _____

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☐ #5 ☑ ☐ OTHER _____ ☑

CV 2/4/10

Initials Date

==========

pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A ☑

LABELED BY..... ☑

LABELS CHECKED BY..... ☑

PEER REVIEW _____ ☑ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING ☑

WETCHEM ☑ N/A ☑

VOA-ENCORES ☑ N/A ☑

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☑ N/A ☑

☑ 2/4/10 COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH ☑ N/A ☑
APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES

☑ CLOUSEAU ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)[1] ☑ 2/4/10 N/A

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☑ PM NOTIFIED

CV 2/4/10

Initials Date

Notes _____

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G0B040517

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB	2	2	2	2	2	2	2	2	2	2	2	2	1							
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 5/05 EM

Page 3

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

MULTI COOLER RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT: Loureiro Eng. LOT# (QUANTIMS ID): G0B040517

Checked (✓)

TEMPERTURE RECORD (IN °C) IR 4☐ 5☑ ☐ OTHER _____ ☑

COOLER ID 1 ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) 540286 ☑

COC #(S) 133161

TEMPERATURE BLANK: OBSERVED: 1 CORRECTED 2 ☑

SAMPLE TEMPERATURE:

OBSERVED: 2 4 3 AVERAGE: 3 CORRECTED 3 ☑

SAMPLES / TESTS (IF NCM REQUIRED): _____ ☑

TEMPERTURE RECORD (IN °C) IR 4☐ 5☑ ☐ OTHER _____ ☑

COOLER ID 2 ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) ~~133160~~ 540287 CV 2/4/10 ☑

COC #(S) 133160

TEMPERATURE BLANK: OBSERVED: 2 CORRECTED 3 ☑

SAMPLE TEMPERATURE:

OBSERVED: 3 3 3 AVERAGE: 3 CORRECTED 3 ☑

SAMPLES / TESTS (IF NCM REQUIRED): _____ ☑

TEMPERTURE RECORD (IN °C) IR 4☐ 5☑ ☐ OTHER _____ ☑

COOLER ID 3 ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) 540288 ☑

COC #(S) 133162

TEMPERATURE BLANK: OBSERVED: 2 CORRECTED 3 ☑

SAMPLE TEMPERATURE:

OBSERVED: 2 3 0 AVERAGE: 2 CORRECTED 2 ☑

SAMPLES / TESTS (IF NCM REQUIRED): _____ ☑

CV 2/4/10

Initials Date

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE. INITIAL AND DATE ALL "N/A" ENTRIES.

QA-185 1/06 RKE, Page 2

WATER, 8290A, Dioxins/Furans

Loureiro Engineering Associates Inc

Sample ID: 1138338UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 002	**Work Order #....:**	LT76V1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.95
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1054.3 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	**1.8**	**J Q**	**9.5**	**0.79**	**pg/L**
Total TCDD	**1.8**		**9.5**	**0.79**	**pg/L**
1,2,3,7,8-PeCDD	ND		48	1.8	pg/L
Total PeCDD	ND		48	1.8	pg/L
1,2,3,4,7,8-HxCDD	ND		48	1.3	pg/L
1,2,3,6,7,8-HxCDD	ND		48	1.0	pg/L
1,2,3,7,8,9-HxCDD	ND		48	1.0	pg/L
Total HxCDD	ND		48	1.3	pg/L
1,2,3,4,6,7,8-HpCDD	**1.8**	**J**	**48**	**1.0**	**pg/L**
Total HpCDD	**3.1**		**48**	**1.0**	**pg/L**
OCDD	**7.5**	**J Q B**	**95**	**0.71**	**pg/L**
2,3,7,8-TCDF	ND		9.5	0.39	pg/L
Total TCDF	ND		9.5	0.39	pg/L
1,2,3,7,8-PeCDF	ND		48	0.58	pg/L
2,3,4,7,8-PeCDF	ND		48	0.60	pg/L
Total PeCDF	ND		48	0.60	pg/L
1,2,3,4,7,8-HxCDF	**0.50**	**J Q B**	**48**	**0.42**	**pg/L**
1,2,3,6,7,8-HxCDF	**0.49**	**J B**	**48**	**0.35**	**pg/L**
2,3,4,6,7,8-HxCDF	**0.54**	**J Q B**	**48**	**0.39**	**pg/L**
1,2,3,7,8,9-HxCDF	ND		48	0.43	pg/L
Total HxCDF	**1.5**		**48**	**0.39**	**pg/L**
1,2,3,4,6,7,8-HpCDF	**1.3**	**J**	**48**	**0.58**	**pg/L**
1,2,3,4,7,8,9-HpCDF	ND		48	0.69	pg/L
Total HpCDF	**2.0**		**48**	**0.63**	**pg/L**
OCDF	**2.2**	**J B**	**95**	**0.48**	**pg/L**

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Loureiro Engineering Associates Inc

Sample ID: 1138338UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 002	**Work Order #....:**	LT76V1AA	**Matrix.....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.95
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1054.3 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	40 - 135
13C-1,2,3,7,8-PeCDD	74	40 - 135
13C-1,2,3,6,7,8-HxCDD	88	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	99	40 - 135
13C-OCDD	89	40 - 135
13C-2,3,7,8-TCDF	87	40 - 135
13C-1,2,3,7,8-PeCDF	72	40 - 135
13C-1,2,3,4,7,8-HxCDF	92	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	96	40 - 135

QUALIFIERS

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

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Loureiro Engineering Associates Inc

Sample ID: 1138339UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 004	**Work Order #....:**	LT76X1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.95
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1051.6 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	**6.7**	**J**	**9.5**	**0.74**	**pg/L**
Total TCDD	**6.7**		**9.5**	**0.74**	**pg/L**
1,2,3,7,8-PeCDD	ND		48	1.8	pg/L
Total PeCDD	ND		48	1.8	pg/L
1,2,3,4,7,8-HxCDD	**1.9**	**J**	**48**	**1.7**	**pg/L**
1,2,3,6,7,8-HxCDD	**1.6**	**J**	**48**	**1.3**	**pg/L**
1,2,3,7,8,9-HxCDD	ND		48	1.3	pg/L
Total HxCDD	**3.6**		**48**	**1.4**	**pg/L**
1,2,3,4,6,7,8-HpCDD	**1.6**	**J**	**48**	**1.2**	**pg/L**
Total HpCDD	**2.7**		**48**	**1.2**	**pg/L**
OCDD	**7.9**	**J Q B**	**95**	**0.87**	**pg/L**
2,3,7,8-TCDF	ND		9.5	0.43	pg/L
Total TCDF	**3.1**		**9.5**	**0.43**	**pg/L**
1,2,3,7,8-PeCDF	**1.2**	**J Q**	**48**	**0.59**	**pg/L**
2,3,4,7,8-PeCDF	**1.4**	**J Q**	**48**	**0.61**	**pg/L**
Total PeCDF	**5.4**		**48**	**0.60**	**pg/L**
1,2,3,4,7,8-HxCDF	**1.6**	**J B**	**48**	**0.43**	**pg/L**
1,2,3,6,7,8-HxCDF	**1.6**	**J B**	**48**	**0.36**	**pg/L**
2,3,4,6,7,8-HxCDF	**1.5**	**J Q B**	**48**	**0.40**	**pg/L**
1,2,3,7,8,9-HxCDF	**0.99**	**J Q**	**48**	**0.44**	**pg/L**
Total HxCDF	**5.6**		**48**	**0.41**	**pg/L**
1,2,3,4,6,7,8-HpCDF	**1.6**	**J Q**	**48**	**0.56**	**pg/L**
1,2,3,4,7,8,9-HpCDF	**0.82**	**J Q**	**48**	**0.67**	**pg/L**
Total HpCDF	**2.4**		**48**	**0.61**	**pg/L**
OCDF	**2.7**	**J Q B**	**95**	**0.64**	**pg/L**

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Loureiro Engineering Associates Inc

Sample ID: 1138339UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 004	**Work Order #....:**	LT76X1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.95
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1051.6 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	88	40 - 135
13C-1,2,3,7,8-PeCDD	73	40 - 135
13C-1,2,3,6,7,8-HxCDD	98	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	95	40 - 135
13C-OCDD	81	40 - 135
13C-2,3,7,8-TCDF	92	40 - 135
13C-1,2,3,7,8-PeCDF	74	40 - 135
13C-1,2,3,4,7,8-HxCDF	101	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	100	40 - 135

QUALIFIERS

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Loureiro Engineering Associates Inc

Sample ID: 1138342UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 010	**Work Order #....:**	LT7691AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.94
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1055.5 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	**1.7**	**J Q**	**9.4**	**0.87**	**pg/L**
Total TCDD	**1.7**		**9.4**	**0.87**	**pg/L**
1,2,3,7,8-PeCDD	ND		47	1.7	pg/L
Total PeCDD	ND		47	1.7	pg/L
1,2,3,4,7,8-HxCDD	ND		47	1.5	pg/L
1,2,3,6,7,8-HxCDD	ND		47	1.1	pg/L
1,2,3,7,8,9-HxCDD	ND		47	1.2	pg/L
Total HxCDD	ND		47	1.5	pg/L
1,2,3,4,6,7,8-HpCDD	**2.0**	**J**	**47**	**1.1**	**pg/L**
Total HpCDD	**3.6**		**47**	**1.1**	**pg/L**
OCDD	**9.1**	**J B**	**94**	**0.90**	**pg/L**
2,3,7,8-TCDF	ND		9.4	0.46	pg/L
Total TCDF	ND		9.4	0.46	pg/L
1,2,3,7,8-PeCDF	ND		47	0.60	pg/L
2,3,4,7,8-PeCDF	ND		47	0.62	pg/L
Total PeCDF	ND		47	0.62	pg/L
1,2,3,4,7,8-HxCDF	**0.71**	**J Q B**	**47**	**0.61**	**pg/L**
1,2,3,6,7,8-HxCDF	**0.67**	**J Q B**	**47**	**0.50**	**pg/L**
2,3,4,6,7,8-HxCDF	**0.68**	**J B**	**47**	**0.56**	**pg/L**
1,2,3,7,8,9-HxCDF	**0.64**	**J Q**	**47**	**0.62**	**pg/L**
Total HxCDF	**2.7**		**47**	**0.57**	**pg/L**
1,2,3,4,6,7,8-HpCDF	**1.2**	**J Q**	**47**	**0.58**	**pg/L**
1,2,3,4,7,8,9-HpCDF	**0.79**	**J**	**47**	**0.68**	**pg/L**
Total HpCDF	**2.6**		**47**	**0.63**	**pg/L**
OCDF	**2.9**	**J B**	**94**	**0.68**	**pg/L**

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Loureiro Engineering Associates Inc

Sample ID: 1138342UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 010	**Work Order #....:**	LT7691AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.94
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1055.5 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	40 - 135
13C-1,2,3,7,8-PeCDD	74	40 - 135
13C-1,2,3,6,7,8-HxCDD	93	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	104	40 - 135
13C-OCDD	94	40 - 135
13C-2,3,7,8-TCDF	93	40 - 135
13C-1,2,3,7,8-PeCDF	76	40 - 135
13C-1,2,3,4,7,8-HxCDF	106	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	107	40 - 135

QUALIFIERS

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Loureiro Engineering Associates Inc

Sample ID: 1138343UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 012	**Work Order #....:**	LT77C1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.97
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1025.2 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		9.7	0.87	pg/L
Total TCDD	ND		9.7	0.87	pg/L
1,2,3,7,8-PeCDD	ND		49	1.9	pg/L
Total PeCDD	ND		49	1.9	pg/L
1,2,3,4,7,8-HxCDD	ND		49	1.7	pg/L
1,2,3,6,7,8-HxCDD	ND		49	1.3	pg/L
1,2,3,7,8,9-HxCDD	ND		49	1.3	pg/L
Total HxCDD	ND		49	1.7	pg/L
1,2,3,4,6,7,8-HpCDD	ND		49	1.1	pg/L
Total HpCDD	**1.4**		**49**	**1.1**	**pg/L**
OCDD	**4.8**	**J Q B**	**97**	**0.66**	**pg/L**
2,3,7,8-TCDF	ND		9.7	0.40	pg/L
Total TCDF	ND		9.7	0.40	pg/L
1,2,3,7,8-PeCDF	ND		49	0.59	pg/L
2,3,4,7,8-PeCDF	ND		49	0.61	pg/L
Total PeCDF	ND		49	0.61	pg/L
1,2,3,4,7,8-HxCDF	ND		49	0.53	pg/L
1,2,3,6,7,8-HxCDF	ND		49	0.44	pg/L
2,3,4,6,7,8-HxCDF	**0.51**	**J B**	**49**	**0.49**	**pg/L**
1,2,3,7,8,9-HxCDF	ND		49	0.54	pg/L
Total HxCDF	**0.51**		**49**	**0.50**	**pg/L**
1,2,3,4,6,7,8-HpCDF	ND		49	0.72	pg/L
1,2,3,4,7,8,9-HpCDF	ND		49	0.84	pg/L
Total HpCDF	ND		49	0.84	pg/L
OCDF	**1.4**	**J B**	**97**	**0.62**	**pg/L**

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Loureiro Engineering Associates Inc

Sample ID: 1138343UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 012	**Work Order #....:**	LT77C1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.97
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1025.2 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	82	40 - 135
13C-1,2,3,7,8-PeCDD	66	40 - 135
13C-1,2,3,6,7,8-HxCDD	93	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	90	40 - 135
13C-OCDD	77	40 - 135
13C-2,3,7,8-TCDF	86	40 - 135
13C-1,2,3,7,8-PeCDF	68	40 - 135
13C-1,2,3,4,7,8-HxCDF	95	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	93	40 - 135

QUALIFIERS

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

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QC DATA ASSOCIATION SUMMARY

G0B040517

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
002	WATER	SW846 8290A		0043244	0046301
004	WATER	SW846 8290A		0043244	0046301
010	WATER	SW846 8290A		0043244	0046301
012	WATER	SW846 8290A		0043244	0046301

Method Blank Report

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B120000 - 244B	**Work Order #....:**	LVLQM1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	1
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1000 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	0.69	pg/L
Total TCDD	ND		10	0.69	pg/L
1,2,3,7,8-PeCDD	ND		50	1.0	pg/L
Total PeCDD	ND		50	1.0	pg/L
1,2,3,4,7,8-HxCDD	ND		50	1.5	pg/L
1,2,3,6,7,8-HxCDD	ND		50	1.2	pg/L
1,2,3,7,8,9-HxCDD	ND		50	1.2	pg/L
Total HxCDD	ND		50	1.5	pg/L
1,2,3,4,6,7,8-HpCDD	ND		50	1.3	pg/L
Total HpCDD	ND		50	1.3	pg/L
OCDD	**4.5**	**J Q**	**100**	**0.80**	**pg/L**
2,3,7,8-TCDF	ND		10	0.38	pg/L
Total TCDF	ND		10	0.38	pg/L
1,2,3,7,8-PeCDF	ND		50	0.24	pg/L
2,3,4,7,8-PeCDF	ND		50	0.25	pg/L
Total PeCDF	ND		50	0.24	pg/L
1,2,3,4,7,8-HxCDF	**0.64**	**J Q**	**50**	**0.40**	**pg/L**
1,2,3,6,7,8-HxCDF	**0.36**	**J**	**50**	**0.33**	**pg/L**
2,3,4,6,7,8-HxCDF	**0.59**	**J**	**50**	**0.37**	**pg/L**
1,2,3,7,8,9-HxCDF	**0.45**	**J Q**	**50**	**0.41**	**pg/L**
Total HxCDF	**1.2**		**50**	**0.37**	**pg/L**
1,2,3,4,6,7,8-HpCDF	ND		50	0.66	pg/L
1,2,3,4,7,8,9-HpCDF	ND		50	0.78	pg/L
Total HpCDF	ND		50	0.71	pg/L
OCDF	**1.4**	**J Q**	**100**	**0.90**	**pg/L**

Method Blank Report

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B120000 - 244B	**Work Order #....:**	LVLQM1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	1
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1000 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	40 - 135
13C-1,2,3,7,8-PeCDD	89	40 - 135
13C-1,2,3,6,7,8-HxCDD	90	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	95	40 - 135
13C-OCDD	93	40 - 135
13C-2,3,7,8-TCDF	82	40 - 135
13C-1,2,3,7,8-PeCDF	81	40 - 135
13C-1,2,3,4,7,8-HxCDF	91	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	90	40 - 135

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

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LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	G0B040517	**Work Order # ...:**	LVLQM1AC-LCS	**Matrix .....:**	WATER
LCS Lot-Sample# :	G0B120000 - 244				
Prep Date .....:	02/12/10	**Analysis Date ..:**	02/17/10		
Prep Batch # ...:	0043244				
Dilution Factor :	1				
Analyst ID.....:	Alora Kuczynski	**Instrument ID..:**	4D5	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	1000 mL				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS
2,3,7,8-TCDD	**200**	**212**	**pg/L**	**106**	**(64 - 142)**
1,2,3,7,8-PeCDD	**1000**	**1020**	**pg/L**	**102**	**(71 - 140)**
1,2,3,4,7,8-HxCDD	**1000**	**1100**	**pg/L**	**110**	**(56 - 146)**
1,2,3,6,7,8-HxCDD	**1000**	**1030**	**pg/L**	**103**	**(73 - 144)**
1,2,3,7,8,9-HxCDD	**1000**	**1060**	**pg/L**	**106**	**(71 - 151)**
1,2,3,4,6,7,8-HpCDD	**1000**	**1090**	**pg/L**	**109**	**(78 - 139)**
OCDD	**2000**	**2170**	**pg/L**	**108**	**(80 - 132)**
2,3,7,8-TCDF	**200**	**214**	**pg/L**	**107**	**(71 - 142)**
1,2,3,7,8-PeCDF	**1000**	**1170**	**pg/L**	**117**	**(76 - 135)**
2,3,4,7,8-PeCDF	**1000**	**1140**	**pg/L**	**114**	**(74 - 137)**
1,2,3,4,7,8-HxCDF	**1000**	**1110**	**pg/L**	**111**	**(75 - 131)**
1,2,3,6,7,8-HxCDF	**1000**	**1050**	**pg/L**	**105**	**(76 - 133)**
2,3,4,6,7,8-HxCDF	**1000**	**1090**	**pg/L**	**109**	**(80 - 137)**
1,2,3,7,8,9-HxCDF	**1000**	**969**	**pg/L**	**97**	**(77 - 142)**
1,2,3,4,6,7,8-HpCDF	**1000**	**1130**	**pg/L**	**113**	**(79 - 133)**
1,2,3,4,7,8,9-HpCDF	**1000**	**1010**	**pg/L**	**101**	**(83 - 130)**
OCDF	**2000**	**2150**	**pg/L**	**107**	**(72 - 140)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	80	(40 - 135)
13C-1,2,3,7,8-PeCDD	68	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	87	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	89	(40 - 135)
13C-OCDD	77	(40 - 135)
13C-2,3,7,8-TCDF	82	(40 - 135)
13C-1,2,3,7,8-PeCDF	67	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	96	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	91	(40 - 135)

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX/MATRIX SPIKE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	G0B040517	**Work Order # ...:**	LT76X1AC-MS	**Matrix .....:**	WATER
OS Lot-Sample# :	G0B040517 - 004		LT76X1AD-MSD		
Prep Date .....:	02/12/10	**Analysis Date ..:**	02/17/10		
Prep Batch # ...:	0043244				
Dilution Factor :	0.95				
Analyst ID.....:	Alora Kuczynski	**Instrument ID..:**	4D5	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	1051.6 mL				

PARAMETER	SAMPLE AMOUNT	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
2,3,7,8-TCDD	6.7	200	207	pg/L	100	(64 - 142)		
	6.7	200	200	pg/L	97	(64 - 142)	3.4	(0 - 45)
1,2,3,7,8-PeCDD	ND	1000	942	pg/L	94	(71 - 140)		
	ND	1000	925	pg/L	92	(71 - 140)	1.9	(0 - 35)
1,2,3,4,7,8-HxCDD	1.9	1000	982	pg/L	98	(56 - 146)		
	1.9	1000	982	pg/L	98	(56 - 146)	0.010	(0 - 45)
1,2,3,6,7,8-HxCDD	1.6	1000	966	pg/L	96	(73 - 144)		
	1.6	1000	984	pg/L	98	(73 - 144)	1.8	(0 - 35)
1,2,3,7,8,9-HxCDD	ND	1000	978	pg/L	98	(71 - 151)		
	ND	1000	975	pg/L	97	(71 - 151)	0.28	(0 - 36)
1,2,3,4,6,7,8-HpCDD	1.6	1000	1040	pg/L	104	(78 - 139)		
	1.6	1000	1010	pg/L	101	(78 - 139)	2.3	(0 - 28)
OCDD	7.9	2000	2070	pg/L	103	(80 - 132)		
	7.9	2000	2070	pg/L	103	(80 - 132)	0.35	(0 - 26)
2,3,7,8-TCDF	ND	200	209	pg/L	104	(71 - 142)		
	ND	200	198	pg/L	99	(71 - 142)	5.2	(0 - 35)
1,2,3,7,8-PeCDF	1.2	1000	1070	pg/L	107	(76 - 135)		
	1.2	1000	1090	pg/L	109	(76 - 135)	1.8	(0 - 33)
2,3,4,7,8-PeCDF	1.4	1000	1020	pg/L	101	(74 - 137)		
	1.4	1000	1050	pg/L	105	(74 - 137)	3.5	(0 - 39)
1,2,3,4,7,8-HxCDF	1.6	1000	1050	pg/L	105	(75 - 131)		
	1.6	1000	1030	pg/L	103	(75 - 131)	1.8	(0 - 26)
1,2,3,6,7,8-HxCDF	1.6	1000	1010	pg/L	101	(76 - 133)		
	1.6	1000	979	pg/L	98	(76 - 133)	3.0	(0 - 32)
2,3,4,6,7,8-HxCDF	1.5	1000	1020	pg/L	102	(80 - 137)		
	1.5	1000	1000	pg/L	100	(80 - 137)	1.6	(0 - 28)
1,2,3,7,8,9-HxCDF	0.99	1000	920	pg/L	92	(77 - 142)		
	0.99	1000	912	pg/L	91	(77 - 142)	0.82	(0 - 30)
1,2,3,4,6,7,8-HpCDF	1.6	1000	1070	pg/L	107	(79 - 133)		
	1.6	1000	1060	pg/L	106	(79 - 133)	1.3	(0 - 25)
1,2,3,4,7,8,9-HpCDF	0.82	1000	986	pg/L	99	(83 - 130)		
	0.82	1000	964	pg/L	96	(83 - 130)	2.2	(0 - 25)
OCDF	2.7	2000	2070	pg/L	103	(72 - 140)		
	2.7	2000	2060	pg/L	103	(72 - 140)	0.11	(0 - 35)

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MATRIX/MATRIX SPIKE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	G0B040517	**Work Order # ...:**	LT76X1AC-MS	**Matrix .....:**	WATER
OS Lot-Sample# :	G0B040517 - 004		LT76X1AD-MSD		
Prep Date .....:	02/12/10	**Analysis Date ..:**	02/17/10		
Prep Batch # ...:	0043244				
Dilution Factor :	0.95				
Analyst ID.....:	Alora Kuczynski	**Instrument ID..:**	4D5	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	1051.6 mL				

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	80	(40 - 135)
	88	(40 - 135)
13C-1,2,3,7,8-PeCDD	66	(40 - 135)
	72	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	90	(40 - 135)
	97	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	93	(40 - 135)
	97	(40 - 135)
13C-OCDD	81	(40 - 135)
	80	(40 - 135)
13C-2,3,7,8-TCDF	83	(40 - 135)
	93	(40 - 135)
13C-1,2,3,7,8-PeCDF	67	(40 - 135)
	73	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	97	(40 - 135)
	107	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	94	(40 - 135)
	99	(40 - 135)

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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2005 WHO TEQs
ND=0

Loureiro Engineering Associates Inc

Sample ID: 1138338UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 002	**Work Order #....:**	LT76V1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Instrument ID....:**	4D5
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Dilution Factor....:**	0.95	**Units.....:**	pg/L
Initial Wgt/Vol :	1054.3 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	**1.8**	**J Q**	**9.5**	**0.79**	**1**	**1.8**
Total TCDD	**1.8**		**9.5**	**0.79**		
1,2,3,7,8-PeCDD	ND		48	1.8	1	0
Total PeCDD	ND		48	1.8		0
1,2,3,4,7,8-HxCDD	ND		48	1.3	0.1	0
1,2,3,6,7,8-HxCDD	ND		48	1.0	0.1	0
1,2,3,7,8,9-HxCDD	ND		48	1.0	0.1	0
Total HxCDD	ND		48	1.3		0
1,2,3,4,6,7,8-HpCDD	**1.8**	**J**	**48**	**1.0**	**0.01**	**0.018**
Total HpCDD	**3.1**		**48**	**1.0**		
OCDD	**7.5**	**J Q B**	**95**	**0.71**	**0.0003**	**0.0022**
2,3,7,8-TCDF	ND		9.5	0.39	0.1	0
Total TCDF	ND		9.5	0.39		0
1,2,3,7,8-PeCDF	ND		48	0.58	0.03	0
2,3,4,7,8-PeCDF	ND		48	0.60	0.3	0
Total PeCDF	ND		48	0.60		0
1,2,3,4,7,8-HxCDF	**0.50**	**J Q B**	**48**	**0.42**	**0.1**	**0.050**
1,2,3,6,7,8-HxCDF	**0.49**	**J B**	**48**	**0.35**	**0.1**	**0.049**
2,3,4,6,7,8-HxCDF	**0.54**	**J Q B**	**48**	**0.39**	**0.1**	**0.054**
1,2,3,7,8,9-HxCDF	ND		48	0.43	0.1	0
Total HxCDF	**1.5**		**48**	**0.39**		
1,2,3,4,6,7,8-HpCDF	**1.3**	**J**	**48**	**0.58**	**0.01**	**0.013**
1,2,3,4,7,8,9-HpCDF	ND		48	0.69	0.01	0
Total HpCDF	**2.0**		**48**	**0.63**		
OCDF	**2.2**	**J B**	**95**	**0.48**	**0.0003**	**0.00066**
Total TEQ Concentration						**2.0**

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Loureiro Engineering Associates Inc

Sample ID: 1138338UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 002	**Work Order #....:**	LT76V1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Instrument ID....:**	4D5
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Dilution Factor....:**	0.95	**Units.....:**	pg/L
Initial Wgt/Vol :	1054.3 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	40 - 135
13C-1,2,3,7,8-PeCDD	74	40 - 135
13C-1,2,3,6,7,8-HxCDD	88	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	99	40 - 135
13C-OCDD	89	40 - 135
13C-2,3,7,8-TCDF	87	40 - 135
13C-1,2,3,7,8-PeCDF	72	40 - 135
13C-1,2,3,4,7,8-HxCDF	92	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	96	40 - 135

QUALIFIERS

Notes:

WHO TEFs for human risk assessment based on the conclusions of the World Health Organization meeting in Geneva, Switzerland, June 2005.

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

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Loureiro Engineering Associates Inc

Sample ID: 1138339UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 004	**Work Order #....:**	LT76X1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Instrument ID....:**	4D5
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Dilution Factor....:**	0.95	**Units.....:**	pg/L
Initial Wgt/Vol :	1051.6 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	**6.7**	**J**	**9.5**	**0.74**	**1**	**6.7**
Total TCDD	**6.7**		**9.5**	**0.74**		
1,2,3,7,8-PeCDD	ND		48	1.8	1	0
Total PeCDD	ND		48	1.8		0
1,2,3,4,7,8-HxCDD	**1.9**	**J**	**48**	**1.7**	**0.1**	**0.19**
1,2,3,6,7,8-HxCDD	**1.6**	**J**	**48**	**1.3**	**0.1**	**0.16**
1,2,3,7,8,9-HxCDD	ND		48	1.3	0.1	0
Total HxCDD	**3.6**		**48**	**1.4**		
1,2,3,4,6,7,8-HpCDD	**1.6**	**J**	**48**	**1.2**	**0.01**	**0.016**
Total HpCDD	**2.7**		**48**	**1.2**		
OCDD	**7.9**	**J Q B**	**95**	**0.87**	**0.0003**	**0.0024**
2,3,7,8-TCDF	ND		9.5	0.43	0.1	0
Total TCDF	**3.1**		**9.5**	**0.43**		
1,2,3,7,8-PeCDF	**1.2**	**J Q**	**48**	**0.59**	**0.03**	**0.036**
2,3,4,7,8-PeCDF	**1.4**	**J Q**	**48**	**0.61**	**0.3**	**0.42**
Total PeCDF	**5.4**		**48**	**0.60**		
1,2,3,4,7,8-HxCDF	**1.6**	**J B**	**48**	**0.43**	**0.1**	**0.16**
1,2,3,6,7,8-HxCDF	**1.6**	**J B**	**48**	**0.36**	**0.1**	**0.16**
2,3,4,6,7,8-HxCDF	**1.5**	**J Q B**	**48**	**0.40**	**0.1**	**0.15**
1,2,3,7,8,9-HxCDF	**0.99**	**J Q**	**48**	**0.44**	**0.1**	**0.099**
Total HxCDF	**5.6**		**48**	**0.41**		
1,2,3,4,6,7,8-HpCDF	**1.6**	**J Q**	**48**	**0.56**	**0.01**	**0.016**
1,2,3,4,7,8,9-HpCDF	**0.82**	**J Q**	**48**	**0.67**	**0.01**	**0.0082**
Total HpCDF	**2.4**		**48**	**0.61**		
OCDF	**2.7**	**J Q B**	**95**	**0.64**	**0.0003**	**0.00081**
Total TEQ Concentration						**8.1**

\\qsacsql1\QDSApps\TEQ\WHO_2005_TEQ_ND_0.rpt 2/25/2010

Loureiro Engineering Associates Inc

Sample ID: 1138339UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 004	**Work Order #....:**	LT76X1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Instrument ID....:**	4D5
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Dilution Factor....:**	0.95	**Units.....:**	pg/L
Initial Wgt/Vol :	1051.6 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	88	40 - 135
13C-1,2,3,7,8-PeCDD	73	40 - 135
13C-1,2,3,6,7,8-HxCDD	98	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	95	40 - 135
13C-OCDD	81	40 - 135
13C-2,3,7,8-TCDF	92	40 - 135
13C-1,2,3,7,8-PeCDF	74	40 - 135
13C-1,2,3,4,7,8-HxCDF	101	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	100	40 - 135

QUALIFIERS

Notes:

WHO TEFs for human risk assessment based on the conclusions of the World Health Organization meeting in Geneva, Switzerland, June 2005.

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

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Loureiro Engineering Associates Inc

Sample ID: 1138342UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 010	**Work Order #....:**	LT7691AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Instrument ID....:**	4D5
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Dilution Factor....:**	0.94	**Units.....:**	pg/L
Initial Wgt/Vol :	1055.5 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	**1.7**	**J Q**	**9.4**	**0.87**	**1**	**1.7**
Total TCDD	**1.7**		**9.4**	**0.87**		
1,2,3,7,8-PeCDD	ND		47	1.7	1	0
Total PeCDD	ND		47	1.7		0
1,2,3,4,7,8-HxCDD	ND		47	1.5	0.1	0
1,2,3,6,7,8-HxCDD	ND		47	1.1	0.1	0
1,2,3,7,8,9-HxCDD	ND		47	1.2	0.1	0
Total HxCDD	ND		47	1.5		0
1,2,3,4,6,7,8-HpCDD	**2.0**	**J**	**47**	**1.1**	**0.01**	**0.020**
Total HpCDD	**3.6**		**47**	**1.1**		
OCDD	**9.1**	**J B**	**94**	**0.90**	**0.0003**	**0.0027**
2,3,7,8-TCDF	ND		9.4	0.46	0.1	0
Total TCDF	ND		9.4	0.46		0
1,2,3,7,8-PeCDF	ND		47	0.60	0.03	0
2,3,4,7,8-PeCDF	ND		47	0.62	0.3	0
Total PeCDF	ND		47	0.62		0
1,2,3,4,7,8-HxCDF	**0.71**	**J Q B**	**47**	**0.61**	**0.1**	**0.071**
1,2,3,6,7,8-HxCDF	**0.67**	**J Q B**	**47**	**0.50**	**0.1**	**0.067**
2,3,4,6,7,8-HxCDF	**0.68**	**J B**	**47**	**0.56**	**0.1**	**0.068**
1,2,3,7,8,9-HxCDF	**0.64**	**J Q**	**47**	**0.62**	**0.1**	**0.064**
Total HxCDF	**2.7**		**47**	**0.57**		
1,2,3,4,6,7,8-HpCDF	**1.2**	**J Q**	**47**	**0.58**	**0.01**	**0.012**
1,2,3,4,7,8,9-HpCDF	**0.79**	**J**	**47**	**0.68**	**0.01**	**0.0079**
Total HpCDF	**2.6**		**47**	**0.63**		
OCDF	**2.9**	**J B**	**94**	**0.68**	**0.0003**	**0.00087**
Total TEQ Concentration						**2.0**

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Loureiro Engineering Associates Inc

Sample ID: 1138342UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 010	**Work Order #....:**	LT7691AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Instrument ID....:**	4D5
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Dilution Factor....:**	0.94	**Units.....:**	pg/L
Initial Wgt/Vol :	1055.5 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	40 - 135
13C-1,2,3,7,8-PeCDD	74	40 - 135
13C-1,2,3,6,7,8-HxCDD	93	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	104	40 - 135
13C-OCDD	94	40 - 135
13C-2,3,7,8-TCDF	93	40 - 135
13C-1,2,3,7,8-PeCDF	76	40 - 135
13C-1,2,3,4,7,8-HxCDF	106	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	107	40 - 135

QUALIFIERS

Notes:

WHO TEFs for human risk assessment based on the conclusions of the World Health Organization meeting in Geneva, Switzerland, June 2005.

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

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Loureiro Engineering Associates Inc

Sample ID: 1138343UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 012	**Work Order #....:**	LT77C1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Instrument ID....:**	4D5
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Dilution Factor....:**	0.97	**Units.....:**	pg/L
Initial Wgt/Vol :	1025.2 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		9.7	0.87	1	0
Total TCDD	ND		9.7	0.87		0
1,2,3,7,8-PeCDD	ND		49	1.9	1	0
Total PeCDD	ND		49	1.9		0
1,2,3,4,7,8-HxCDD	ND		49	1.7	0.1	0
1,2,3,6,7,8-HxCDD	ND		49	1.3	0.1	0
1,2,3,7,8,9-HxCDD	ND		49	1.3	0.1	0
Total HxCDD	ND		49	1.7		0
1,2,3,4,6,7,8-HpCDD	ND		49	1.1	0.01	0
Total HpCDD	**1.4**		**49**	**1.1**		
OCDD	**4.8**	**J Q B**	**97**	**0.66**	**0.0003**	**0.0014**
2,3,7,8-TCDF	ND		9.7	0.40	0.1	0
Total TCDF	ND		9.7	0.40		0
1,2,3,7,8-PeCDF	ND		49	0.59	0.03	0
2,3,4,7,8-PeCDF	ND		49	0.61	0.3	0
Total PeCDF	ND		49	0.61		0
1,2,3,4,7,8-HxCDF	ND		49	0.53	0.1	0
1,2,3,6,7,8-HxCDF	ND		49	0.44	0.1	0
2,3,4,6,7,8-HxCDF	**0.51**	**J B**	**49**	**0.49**	**0.1**	**0.051**
1,2,3,7,8,9-HxCDF	ND		49	0.54	0.1	0
Total HxCDF	**0.51**		**49**	**0.50**		
1,2,3,4,6,7,8-HpCDF	ND		49	0.72	0.01	0
1,2,3,4,7,8,9-HpCDF	ND		49	0.84	0.01	0
Total HpCDF	ND		49	0.84		0
OCDF	**1.4**	**J B**	**97**	**0.62**	**0.0003**	**0.00042**
Total TEQ Concentration						**0.053**

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Loureiro Engineering Associates Inc

Sample ID: 1138343UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 012	**Work Order #....:**	LT77C1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Instrument ID....:**	4D5
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Dilution Factor....:**	0.97	**Units.....:**	pg/L
Initial Wgt/Vol :	1025.2 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	82	40 - 135
13C-1,2,3,7,8-PeCDD	66	40 - 135
13C-1,2,3,6,7,8-HxCDD	93	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	90	40 - 135
13C-OCDD	77	40 - 135
13C-2,3,7,8-TCDF	86	40 - 135
13C-1,2,3,7,8-PeCDF	68	40 - 135
13C-1,2,3,4,7,8-HxCDF	95	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	93	40 - 135

QUALIFIERS

Notes:

WHO TEFs for human risk assessment based on the conclusions of the World Health Organization meeting in Geneva, Switzerland, June 2005.

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

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WATER, 8290A, Dioxins/Furans

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

continuing calibration standards

interference/performance check standards

continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

ms tune data

Run text: LVLQM-1-AAB Sample text: LVLQM-1-AAB :G0B120000-244 (517-2M
Run #8 Filename: 17FE104D5 S: 4 I: 1 Results: 17fe104d58290
Acquired: 17-FEB-10 11:45:53 Processed: 17-FEB-10 15:33:17 AK 2/23/10
Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.00 L

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	94188800	0.79	y	19:17	-	56.58	-	-	n
13C-2,3,7,8-TCDF	121935900	0.78	y	18:45	1.57	1648.69	0.88	82.4	n
2,3,7,8-TCDF	24414	0.72	y	18:47	1.05	0.38	0~~.041~~ 0.18	-	n
Total TCDF	229762	0.70	y	14:11	1.05	~~3.58~~ ~~0.65~~	0~~.04~~ 0.18	-	n
13C-2,3,7,8-TCDD	81426600	0.80	y	19:31	1.00	1727.50	1.28	86.4	n
2,3,7,8-TCDD	*	*	n	NotFnd	1.05	*	0.69	-	n
Total TCDD	68856	0.80	y	17:06	1.05	~~1.60~~	0.69	-	n
37Cl-2,3,7,8-TCDD	82378800	1.00	y	19:33	2.42	724.10	0.01	90.5	n
13C-1,2,3,7,8-PeCDF	101514800	1.57	y	24:21	1.34	1612.64	2.74	80.6	n
1,2,3,7,8-PeCDF	27482	1.24	n	24:24	1.07	0~~.51~~ 5Q	0.24	-	n
2,3,4,7,8-PeCDF	18443	1.51	y	25:53	1.04	0~~.35~~ 5	0.25	-	n
Total F2 PeCDF	135713	0.78	n	22:55	1.05	~~2.54~~ ~~1.01~~	0.24	-	n
Total F1 PeCDF	130423	0.84	n	14:17	1.05	~~2.44~~	0.04	-	n
13C-1,2,3,7,8-PeCDD	68148000	1.56	y	26:38	0.81	1781.94	0.41	89.1	n
1,2,3,7,8-PeCDD	4400	0.70	n	26:41	1.04	~~0.12~~	1.02	-	n
Total PeCDD	77989	0.67	n	22:36	1.04	~~2.21~~	1.02	-	n
13C-1,2,3,7,8,9-HxCDD	92664600	1.27	y	33:01	-	56.80	-	-	n
13C-1,2,3,4,7,8-HxCDF	85836600	0.53	y	31:49	1.01	1826.03	0.65	91.3	n
1,2,3,4,7,8-HxCDF	34302	1.55	n	31:49	1.24	0.64 5Q	0.40	-	y
1,2,3,6,7,8-HxCDF	22865	1.26	y	31:58	1.49	0.36 5	0.33	-	y
2,3,4,6,7,8-HxCDF	33633	1.12	y	32:33	1.34	0.59 5	0.37	-	n
1,2,3,7,8,9-HxCDF	23459	1.67	n	33:13	1.22	~~0.45~~	0.41	-	n
Total HxCDF	140890	1.55	n	31:49	1.32	~~2.50~~ 1.23	0.37	-	y
13C-1,2,3,6,7,8-HxCDD	73735400	1.28	y	32:44	0.88	1800.56	0.03	90.0	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	0.90	*	1.54	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.19	*	1.17	-	n
1,2,3,7,8,9-HxCDD	29618	0.91	n	33:01	1.16	0~~.69~~	1.20	-	n
Total HxCDD	45455	0.91	n	33:01	1.08	1~~.09~~	~~1.28~~ 1.54	-	n
13C-1,2,3,4,6,7,8-HpCDF	78319700	0.44	y	34:32	0.94	1789.17	13.42	89.5	n
1,2,3,4,6,7,8-HpCDF	20987	0.29	n	34:34	1.30	~~0.41~~	0.66	-	n
1,2,3,4,7,8,9-HpCDF	*	*	n	NotFnd	1.10	*	0.78	-	n
Total HpCDF	31138	0.29	n	34:34	1.20	~~0.63~~	~~0.71~~ 0.78	-	n
13C-1,2,3,4,6,7,8-HpCDD	70091500	1.07	y	35:20	0.79	1907.88	8.37	95.4	n
1,2,3,4,6,7,8-HpCDD	*	*	n	NotFnd	1.06	*	1.25	-	n
Total HpCDD	57949	1.32	n	34:47	1.06	~~1.57~~	1.25	-	n
13C-OCDD	100120200	0.89	y	37:49	0.58	3713.34	6.14	92.8	n

OCDF	54910	0.67	n	37:56	1.56	1.41	JQ	0.90	-	n
OCDD	134031	0.74	n	37:49	1.19	4.49		0.80	-	n

Run text: LVLQM-1-AAB Sample text: LVLQM-1-AAB :G0B120000-244 (517-2MB)
Run #8 Filename: 17FE104D5 S: 4 I: 1 Results: 17FE104D58290
Acquired: 17-FEB-10 11:45:53 Processed: 17-FEB-10 15:33:17
Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.000000L

2/18/10 KSS

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	94188800	0.79	y	19:17	-	56.58	-	-	n
13C-2,3,7,8-TCDF	121935900	0.78	y	18:45	1.57	1648.69	0.88	82.4	n
2,3,7,8-TCDF	24414	0.72	y	18:47	1.05	0.38	~~0.04~~	-	n
Total TCDF	229762	0.70	y	14:11	1.05	~~3.58~~ 0.38	~~0.04~~	-	n
13C-2,3,7,8-TCDD	81426600	0.80	y	19:31	1.00	1727.50	1.28	86.4	n
2,3,7,8-TCDD	*	*	n	NotFnd	1.05	*	0.69	-	n
Total TCDD	68856	0.80	y	17:06	1.05	~~1.60~~	0.69	-	n
37Cl-2,3,7,8-TCDD	82378800	1.00	y	19:33	2.42	724.10	0.01	90.5	n
13C-1,2,3,7,8-PeCDF	101514800	1.57	y	24:21	1.34	1612.64	2.74	80.6	n
1,2,3,7,8-PeCDF	27482	1.24	n	24:24	1.07	0.51	~~0.24~~	-	n
2,3,4,7,8-PeCDF	18443	1.51	y	25:53	1.04	0.35	0.25	-	n
Total F2 PeCDF	135713	0.78	n	22:55	1.05	~~2.54~~	0.24	-	n
Total F1 PeCDF	130423	0.84	n	14:17	1.05	~~2.44~~ 0.51	~~0.04~~	-	n
13C-1,2,3,7,8-PeCDD	68148000	1.56	y	26:38	0.81	1781.94	0.41	89.1	n
1,2,3,7,8-PeCDD	4400	0.70	n	26:41	1.04	~~0.12~~	1.02	-	n
Total PeCDD	77989	0.67	n	22:36	1.04	~~2.21~~	1.02	-	n
13C-1,2,3,7,8,9-HxCDD	92664600	1.27	y	33:01	-	56.80	-	-	n
13C-1,2,3,4,7,8-HxCDF	85836600	0.53	y	31:49	1.01	1826.03	0.65	91.3	n
1,2,3,4,7,8-HxCDF	32315	1.51	n	31:49	1.24	0.61	~~0.40~~	-	n
1,2,3,6,7,8-HxCDF	20829	1.95	n	31:58	1.49	0.33	0.33	-	n
2,3,4,6,7,8-HxCDF	33633	1.12	y	32:33	1.34	0.59	0.37	-	n
1,2,3,7,8,9-HxCDF	23459	1.67	n	33:13	1.22	0.45	0.41	-	n
Total HxCDF	123332	1.51	n	31:49	1.32	~~2.20~~ 0.61	~~0.37~~	-	n
13C-1,2,3,6,7,8-HxCDD	73735400	1.28	y	32:44	0.88	1800.56	0.03	90.0	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	0.90	*	1.54	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.19	*	1.17	-	n
1,2,3,7,8,9-HxCDD	29618	0.91	n	33:01	1.16	~~0.69~~	1.20	-	n
Total HxCDD	45455	0.91	n	33:01	1.08	~~1.09~~	~~1.28~~ 1.54	-	n
13C-1,2,3,4,6,7,8-HpCDF	78319700	0.44	y	34:32	0.94	1789.17	13.42	89.5	n
1,2,3,4,6,7,8-HpCDF	20987	0.29	n	34:34	1.30	~~0.41~~	0.66	-	n
1,2,3,4,7,8,9-HpCDF	*	*	n	NotFnd	1.10	*	0.78	-	n
Total HpCDF	31138	0.29	n	34:34	1.20	~~0.63~~	~~0.71~~ 0.78	-	n
13C-1,2,3,4,6,7,8-HpCDD	70091500	1.07	y	35:20	0.79	1907.88	8.37	95.4	n
1,2,3,4,6,7,8-HpCDD	*	*	n	NotFnd	1.06	*	1.25	-	n
Total HpCDD	57949	1.32	n	34:47	1.06	~~1.57~~	1.25	-	n
13C-OCDD	100120200	0.89	y	37:49	0.58	3713.34	6.14	92.8	n

OCDF	54910	0.67	n	37:56	1.56	1.41	~~0.90~~	-	n
OCDD	134031	0.74	n	37:49	1.19	4.49	~~0.80~~	-	n

Z

Run Text: LVLQM-1-AAB Sample text: LVLQM-1-AAB :G0B120000-244 (

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:41
Run: 8 File: 17FE104D5 S:4 Acq:17-FEB-10 11:45:53
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	3.58 of which	0.38 named and	3.20	unnamed
Conc:	3.58 of which	0.38 named and	3.20	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:11	0.70	y	0.23	6036	9.6	y	n
						8656	25.1	y	n
	2	14:33	0.30	n	0.07	1832	4.4	y	n
						6125	21.7	y	n
	3	14:41	1.31	n	0.03	1578	5.2	y	n
						1202	6.8	y	n
	4	14:49	0.29	n	0.07	2014	7.3	y	n
						6906	29.8	y	n
	5	15:07	2.70	n	0.02	1910	6.0	y	n
						706	3.5	y	n
	6	15:14	1.60	n	0.11	6421	18.6	y	n
						4003	17.0	y	n
	7	15:29	0.84	y	0.05	1357	4.9	y	n
						1624	7.2	y	n
	8	15:35	0.70	y	0.07	1988	7.3	y	n
						2820	10.5	y	n
	9	15:42	0.62	n	0.05	1391	4.2	y	n
						2258	12.1	y	n
	10	15:48	3.84	n	0.06	8673	32.9	y	n
						2258	12.1	y	n
	11	15:57	0.07	n	0.01	344	1.2	n	n
						4656	23.9	y	n
	12	16:04	0.21	n	0.02	653	2.3	n	n
						3045	8.7	y	n
	13	16:12	2.23	n	0.07	5505	13.0	y	n
						2471	11.6	y	n
	14	16:29	0.18	n	0.05	1277	4.3	y	n
						7200	18.2	y	n
	15	16:57	0.68	y	0.13	3300	11.5	y	n
						4838	17.7	y	n
	16	17:05	0.53	n	0.06	1654	6.4	y	n

OW

Noise

						3118	14.5	y	n
	17	17:13	0.39	n	0.12	3336	7.9	y	n
						8594	36.1	y	n
	18	17:37	0.99	n	0.13	4842	14.2	y	n
						4875	19.6	y	n
	19	17:45	0.21	n	0.06	1562	6.0	y	n
						7543	24.5	y	n
	20	17:53	2.39	n	0.06 Noise	5306	17.1	y	n
						2224	7.3	y	n
	21	18:01	0.74	y	0.18	4860	15.5	y	n
						6574	25.1	y	n
	22	18:07	0.48	n	0.06	1554	5.8	y	n
						3213	11.6	y	n
	23	18:20	2.12	n	0.11	8488	12.8	y	n
						4004	17.2	y	n
	24	18:38	0.41	n	0.04	1080	3.8	y	n
						2647	12.4	y	n
2,3,7,8-TCDF	25	18:47	0.72	y	0.38	10258	22.8	y	n
						14155	34.5	y	n
	26	18:55	1.10	n	0.16	6199	12.8	y	n
						5651	19.8	y	n
	27	19:17	1.07	n	0.27	10557	24.8	y	n
						9893	37.2	y	n
	28	19:27	0.92	n	0.11	3518	13.0	y	n
						3826	14.3	y	n
	29	19:33	0.36	n	0.10	2875	10.5	y	n
						7973	14.6	y	n
	30	19:45	2.80	n	0.12 Noise	11931	39.5	y	n
						4267	23.4	y	n
	31	19:55	1.49	n	0.04	2234	8.5	y	n
						1497	7.3	y	n
	32	20:07	1.13	n	0.09	3807	11.0	y	n
						3368	15.3	y	n
	33	20:19	2.70	n	0.04	3984	10.7	y	n
						1474	6.3	y	n
	34	20:37	0.52	n	0.05	1413	3.8	y	n
						2736	12.7	y	n
	35	20:46	1.63	n	0.07	4337	15.9	y	n
						2658	10.8	y	n
	36	21:02	1.74	n	0.08	5177	8.3	y	n

Run Text: LVLQM-1-AAB Sample text: LVLQM-1-AAB :G0B120000-244 (

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:7
Run: 8 File: 17FE104D5 S:4 Acq:17-FEB-10 11:45:53
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1.60 of which	* named and	1.60	unnamed	
Conc:	1.60 of which	* named and	1.60	unnamed	

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	17:06	0.80	y	0.49	9344	3.6	y	n
						11731	3.3	y	n
	2	17:09	0.14	n	0.09	1646	0.7	n	n
						11731	3.3	y	n
	3	17:22	1.04	n	0.32	8139	3.2	y	n
						7797	3.1	y	n
	4	17:47	0.70	y	0.20	3438	1.3	n	n
						4938	1.7	n	n
	5	19:10	0.58	n	0.22	4138	1.4	n	n
						7175	1.8	n	n
	6	21:50	1.53	n	0.14	5327	1.9	n	n
						3477	1.4	n	n
	7	21:56	0.96	n	0.14	3341	1.3	n	n
						3477	1.4	n	n

Run Text: LVLQM-1-AAB Sample text: LVLQM-1-AAB :G0B120000-244 (

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:19
Run: 8 File: 17FE104D5 S:4 Acq:17-FEB-10 11:45:53
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2.54 of which	0.86 named and	1.68	unnamed
Conc:	2.54 of which	0.86 named and	1.68	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	22:55	0.78	n	0.16	5240	26.5	y	n
						6739	2.8	n	n
	2	23:02	1.01	n	0.08	2444	12.2	y	n
						2422	1.6	n	n
	3	23:11	1.13	n	0.08	2452	14.8	y	n
						2178	1.6	n	n
	4	23:18	0.10	n	0.01	322	2.0	n	n

						3317	1.8	n	n
	5	23:54	0.42	n	0.05	1623	6.7	y	n
						3865	1.9	n	n
	6	24:09	0.42	n	0.05	1609	8.4	y	n
						3838	1.8	n	n
1,2,3,7,8-PeCDF	7	24:24	1.24	n	0.51	16705	60.2	y	n
						13525	5.6	y	n
	8	24:28	0.62	n	0.26	8330	51.0	y	n
						13525	5.6	y	n
	9	24:39	0.46	n	0.07	2160	10.6	y	n
						4668	3.4	y	n
	10	25:03	0.49	n	0.06	1992	9.7	y	n
						4075	2.6	n	n
2,3,4,7,8-PeCDF	11	25:53	1.51	y	0.35	11092	25.1	y	n
						7351	2.8	n	n
	12	26:03	0.65	n	0.40	13019	61.0	y	n
						20087	6.8	y	n
	13	26:08	0.94	n	0.11	3721	15.5	y	n
						3975	2.7	n	n
	14	26:14	1.03	n	0.13	4103	18.1	y	n
						3975	2.7	n	n
	15	28:21	0.28	n	0.04	1153	8.2	y	n
						4151	2.4	n	n
	16	28:42	0.36	n	0.10	3101	12.5	y	n
						8658	4.2	y	n
	17	29:01	0.65	n	0.04	1245	9.2	y	n
						1916	1.4	n	n
	18	29:43	0.24	n	0.04	1279	9.5	y	n
						5414	3.6	y	n
	19	29:47	0.81	n	0.02	784	4.4	y	n
						973	1.1	n	n

Run Text: LVLQM-1-AAB Sample text: LVLQM-1-AAB :G0B120000-244

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:42
Run: 8 File: 17FE104D5 S:4 Acq:17-FEB-10 11:45:53
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2.44 of which	* named and	2.44	unnamed	
Conc:	2.44 of which	* named and	2.44	unnamed	

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:17	0.84	n	0.05	1674	12.4	y	n
						2003	8.5	y	n
	2	14:28	0.43	n	0.10	3392	15.7	y	n
						7815	28.0	y	n
	3	14:57	0.75	n	0.10	3358	35.5	y	n
						4458	14.0	y	n
	4	15:05	0.24	n	0.02	687	7.3	y	n
						2853	11.1	y	n
	5	15:12	0.66	n	0.04	1218	11.4	y	n
						1856	10.9	y	n
	6	15:32	1.85	n	0.12	4566	36.9	y	n
						2464	14.0	y	n
	7	15:42	0.05	n	0.00	123	1.1	n	n
						2492	9.5	y	n
	8	15:51	0.06	n	0.01	277	2.7	n	n
						5033	17.5	y	n
	9	16:00	2.50	n	0.02	1044	9.4	y	n
						417	2.0	n	n
	10	16:08	5.14	n	0.02	2144	11.2	y	n
						417	2.0	n	n
	11	16:29	0.25	n	0.18	5802	47.9	y	n
						22883	81.2	y	n
	12	16:47	1.41	y	0.10	3174	17.7	y	n
						2249	9.8	y	n
	13	16:53	0.11	n	0.01	329	2.2	n	n
						3109	11.0	y	n
	14	17:01	1.78	y	0.10	3267	23.7	y	n
						1835	10.8	y	n
	15	17:19	1.02	n	0.04	1224	12.4	y	n
						1197	6.9	y	n
	16	17:28	1.01	n	0.07	2396	25.3	y	n

					2363	12.5	y	n
17	17:37	0.63	n	0.09	2766	24.2	y	n
					4396	21.0	y	n
18	17:46	3.21	n	0.03	2059	15.6	y	n
					642	6.2	y	n
19	17:53	0.55	n	0.04	1385	13.7	y	n
					2527	14.8	y	n
20	18:18	1.36	y	0.12	3757	22.9	y	n
					2769	11.5	y	n
21	18:31	0.90	n	0.05	1522	16.5	y	n
					1697	9.8	y	n
22	18:37	0.53	n	0.03	902	9.2	y	n
					1697	9.8	y	n
23	18:44	4.25	n	0.01	696	5.2	y	n
					164	0.6	n	n
24	18:51	0.33	n	0.04	1150	10.1	y	n
					3514	18.1	y	n
25	19:04	0.54	n	0.06	1907	17.6	y	n
					3556	16.2	y	n
26	19:11	0.25	n	0.05	1691	14.1	y	n
					6832	14.6	y	n
27	19:22	1.01	n	0.06	1843	17.7	y	n
					1826	11.0	y	n
28	19:29	0.58	n	0.03	1066	7.7	y	n
					1826	11.0	y	n
29	19:35	0.23	n	0.05	1652	12.4	y	n
					7263	21.6	y	n
30	19:42	0.51	n	0.11	3732	23.8	y	n
					7263	21.6	y	n
31	19:59	0.08	n	0.02	745	6.1	y	n
					9577	30.2	y	n
32	20:04	0.20	n	0.06	1935	12.3	y	n
					9577	30.2	y	n
33	20:13	1.66	y	0.10	3468	35.7	y	n
					2090	9.4	y	n
34	20:25	0.45	n	0.28	9089	35.2	y	n
					20386	67.4	y	n
35	20:48	4.49	n	0.02	1519	11.8	y	n
					339	1.2	n	n
36	20:55	0.14	n	0.03	1050	11.2	y	n

Run Text: LVLQM-1-AAB Sample text: LVLQM-1-AAB :G0B120000-244 (

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:11
Run: 8 File: 17FE104D5 S:4 Acq:17-FEB-10 11:45:53
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2.21 of which	0.12 named and	2.08	unnamed
Conc:	2.21 of which	0.12 named and	2.08	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	22:36	0.67	n	0.03	720	0.3	n	n
						1073	0.8	n	n
	2	23:42	2.05	n	0.19	5400	1.6	n	n
						2628	2.0	n	n
	3	24:54	0.69	n	0.18	3829	1.4	n	n
						5565	4.1	y	n
	4	25:50	4.81	n	0.11	7063	2.5	n	n
						1467	1.1	n	n
	5	26:02	9.34	n	0.57	73390	12.0	y	n
						7862	4.2	y	n
	6	26:37	1.95	n	0.27	7441	3.4	y	n
						3807	2.8	n	n
1,2,3,7,8-PeCDD	7	26:41	0.70	n	0.12	2675	1.3	n	n
						3832	1.7	n	n
	8	26:50	0.66	n	0.25	5423	1.5	n	n
						8224	3.7	y	n
	9	27:25	1.38	y	0.20	4005	1.6	n	n
						2901	2.0	n	n
	10	27:57	1.27	n	0.16	3525	1.3	n	n
						2766	1.7	n	n
	11	28:20	1.74	y	0.12	2719	1.5	n	n
						1561	0.9	n	n

Run Text: LVLQM-1-AAB Sample text: LVLQM-1-AAB :G0B120000-244 (

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:5
Run: 8 File: 17FE104D5 S:4 Acq:17-FEB-10 11:45:53
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2.20 of which	1.97 named and	0.23 unnamed
Conc:	2.20 of which	1.97 named and	0.23 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,7,8-HxCDF	1	31:49	1.51	n	0.61	21819	4.6	y	n
						14426	5.9	y	n
1,2,3,6,7,8-HxCDF	2	31:58	1.95	n	0.33	18162	4.0	y	n
						9299	5.3	y	n
2,3,4,6,7,8-HxCDF	3	32:33	1.12	y	0.59	17746	4.5	y	n
						15887	5.1	y	n
1,2,3,7,8,9-HxCDF	4	33:13	1.67	n	~~0.45~~	17521	4.2	y	n
						10473	4.5	y	n
	5	33:18	0.87	n	0.23	7250	2.0	n	n
						8337	2.6	n	n

see A

DPE

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Run Text: LVLQM-1-AAB Sample text: LVLQM-1-AAB :G0B120000-244 (

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:2
Run: 8 File: 17FE104D5 S:4 Acq:17-FEB-10 11:45:53
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1.09 of which	0.69 named and	0.40	unnamed	
Conc:	1.09 of which	0.69 named and	0.40	unnamed	

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,7,8,9-HxCDD	1	33:01	0.91	n	0.69	16396	1.4	n	n
						18020	2.4	n	n
	2	33:10	2.99	n	0.40	21110	2.1	n	n
						7070	1.6	n	n

Totals Results TestAmerica West Sacramento Page 8 of 9

Run Text: LVLQM-1-AAB Sample text: LVLQM-1-AAB :G0B120000-244 (

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:2
Run: 8 File: 17FE104D5 S:4 Acq:17-FEB-10 11:45:53
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	0.63 of which	0.41 named and	0.22	unnamed	
Conc:	0.63 of which	0.41 named and	0.22	unnamed	

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:34	0.29	n	0.41	10699	1.8	n	n
						36453	12.9	y	n
	2	35:02	1.45	n	0.22	7213	1.5	n	n
						4976	3.0	n	n

 6A

Run Text: LVLQM-1-AAB Sample text: LVLQM-1-AAB :G0B120000-244 (

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:6
Run: 8 File: 17FE104D5 S:4 Acq:17-FEB-10 11:45:53
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17fe104d

Amount:	2.50 of which	2.04 named and	0.47	unnamed
Conc:	2.50 of which	2.04 named and	0.47	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?	
1,2,3,4,7,8-HxCDF	1	31:49	1.55	n	0.64	23778	4.8	y	y	
						15313	6.0	y	y	
1,2,3,6,7,8-HxCDF	2	31:58	1.26	y	0.36	12737	4.2	y	y	
						10129	5.3	y	y	
	3	31:59	0.74	n	0.24	7492	3.0	y	y	
						10078	5.3	y	y	
2,3,4,6,7,8-HxCDF	4	32:33	1.12	y	0.59	17746	4.5	y	n	
						15887	5.1	y	n	
1,2,3,7,8,9-HxCDF	5	33:13	1.67	n	0.45	17521	4.2	y	n	DPE
						10473	4.5	y	n	
	6	33:18	0.87	n	0.23	7250	2.0	n	n	
						8337	2.6	n	n	

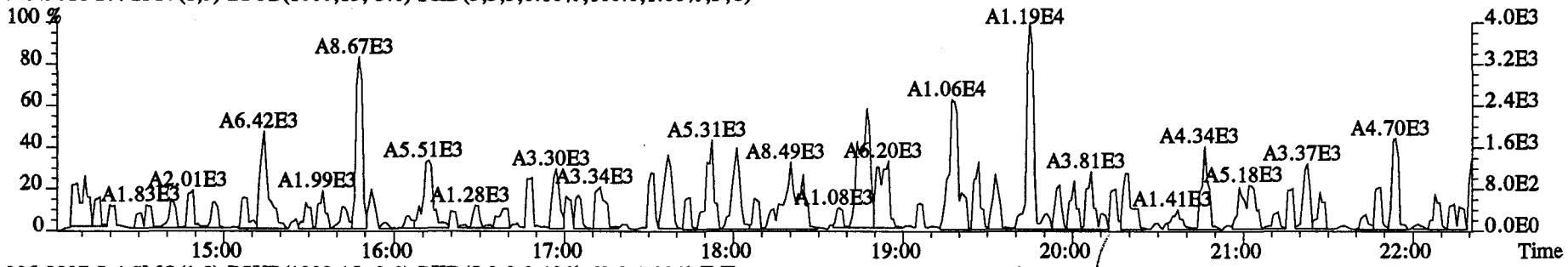
Run Text: LVLQM-1-AAB Sample text: LVLQM-1-AAB :G0B120000-244 (

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:2
Run: 8 File: 17FE104D5 S:4 Acq:17-FEB-10 11:45:53
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

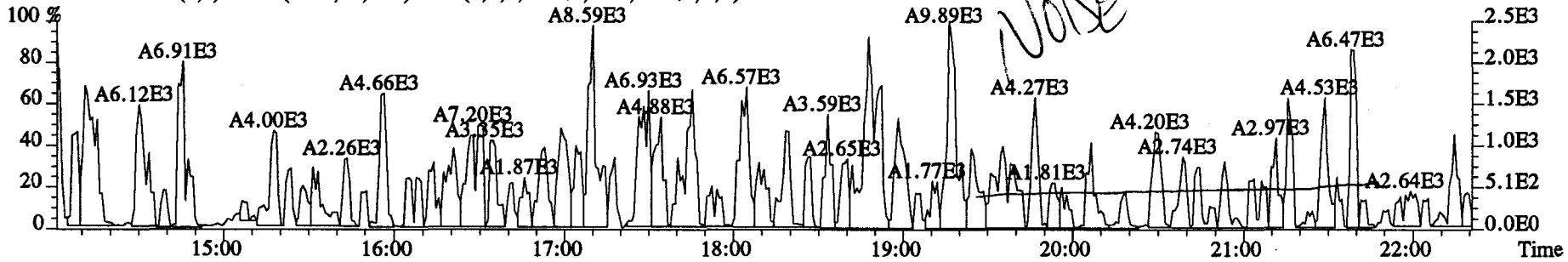
Amount:	1.57 of which	* named and	1.57	unnamed	
Conc:	1.57 of which	* named and	1.57	unnamed	

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	34:47	1.32	n	1.18	28156	3.2	y	n
						21393	2.8	n	n
	2	35:38	2.88	n	0.39	20218	3.7	y	n
						7013	1.5	n	n

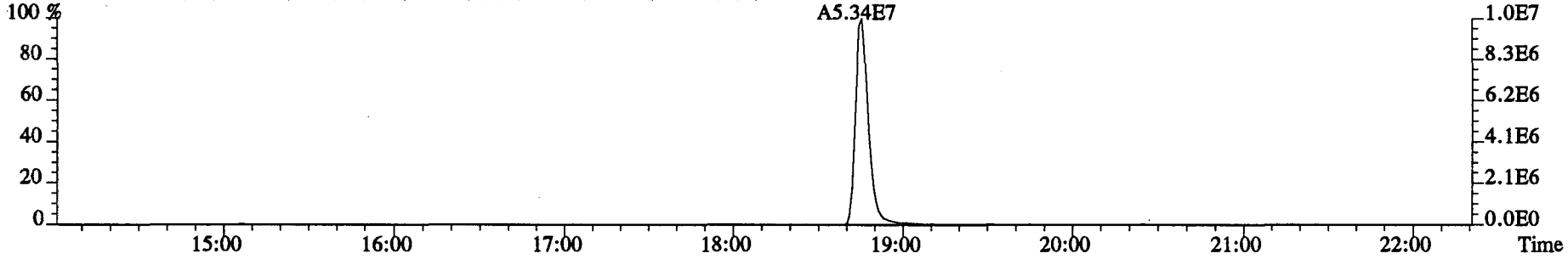
File:17FE104D5 #1-578 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN
303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,100.0,1.00%,F,T)



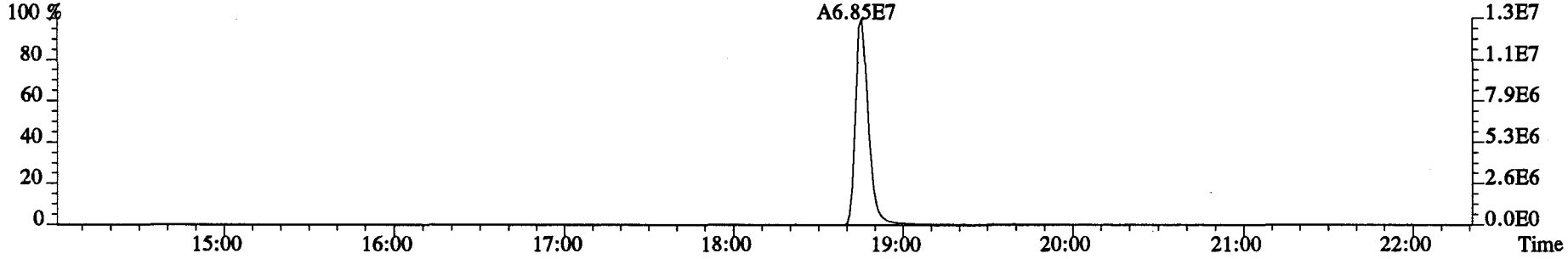
305.8987 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68.0,1.00%,F,T)



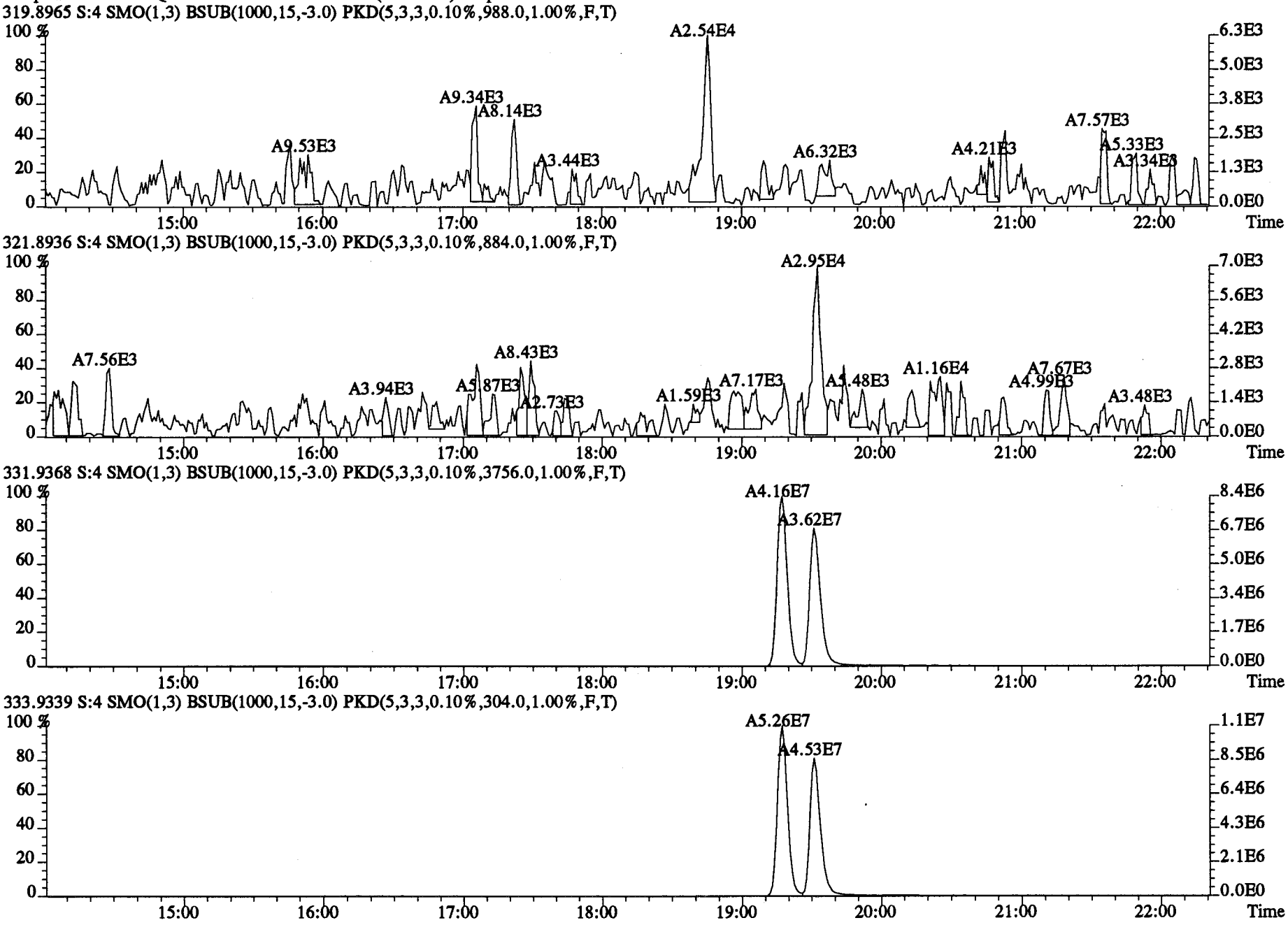
315.9419 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2116.0,1.00%,F,T)



317.9389 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2296.0,1.00%,F,T)

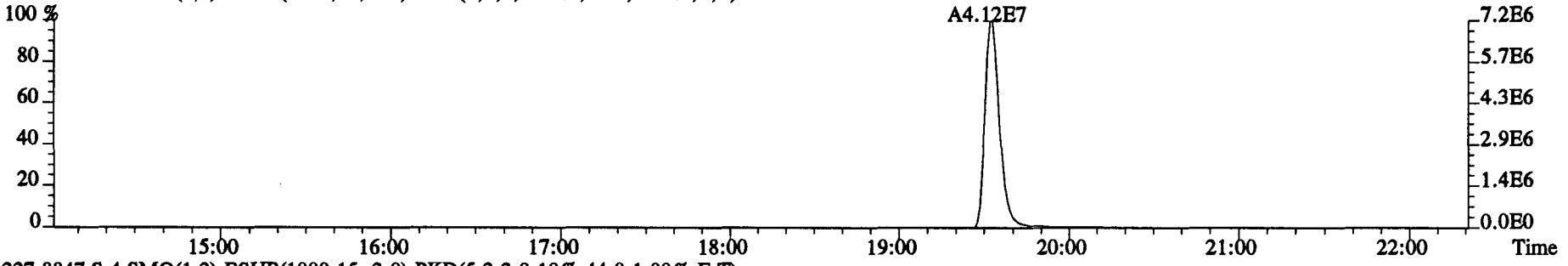


File:17FE104D5 #1-578 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN

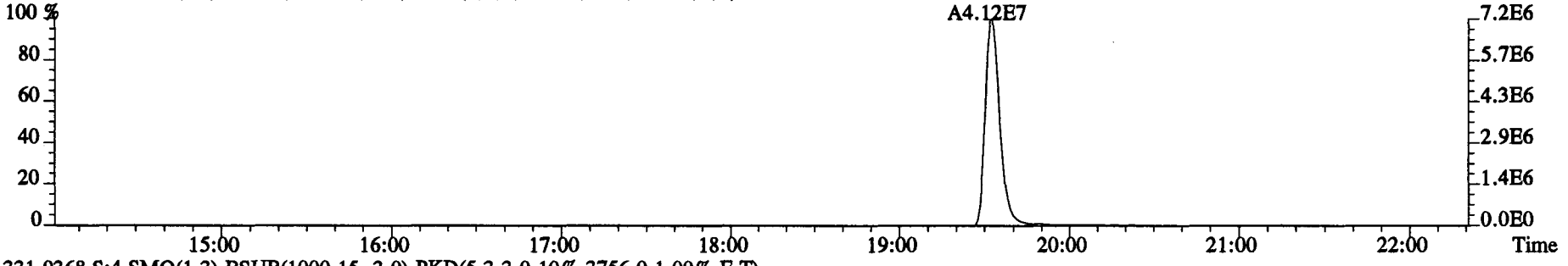


File:17FE104D5 #1-578 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN

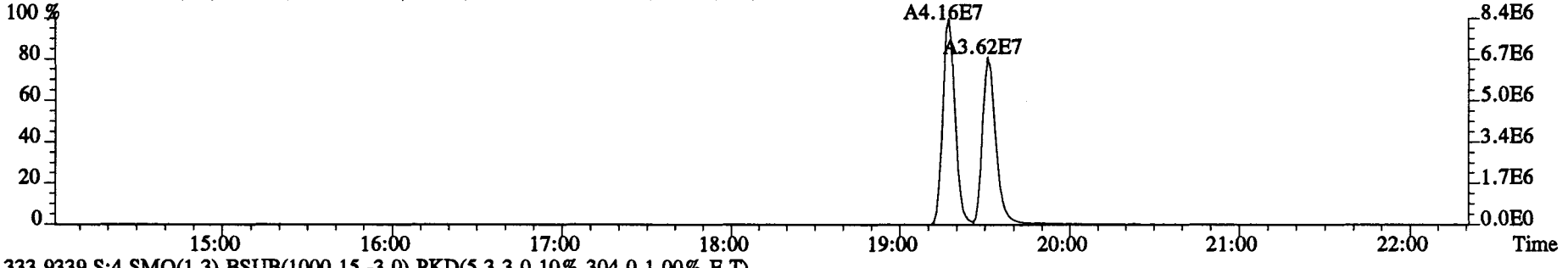
327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44.0,1.00%,F,T)



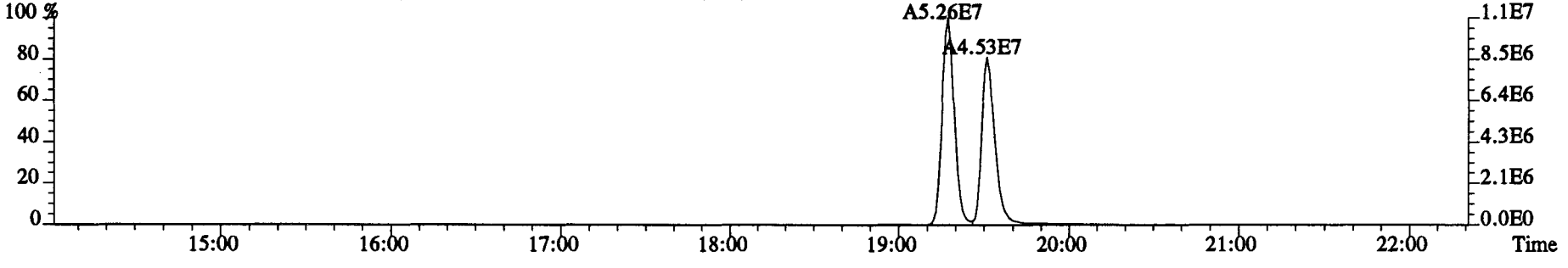
327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44.0,1.00%,F,T)



331.9368 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3756.0,1.00%,F,T)

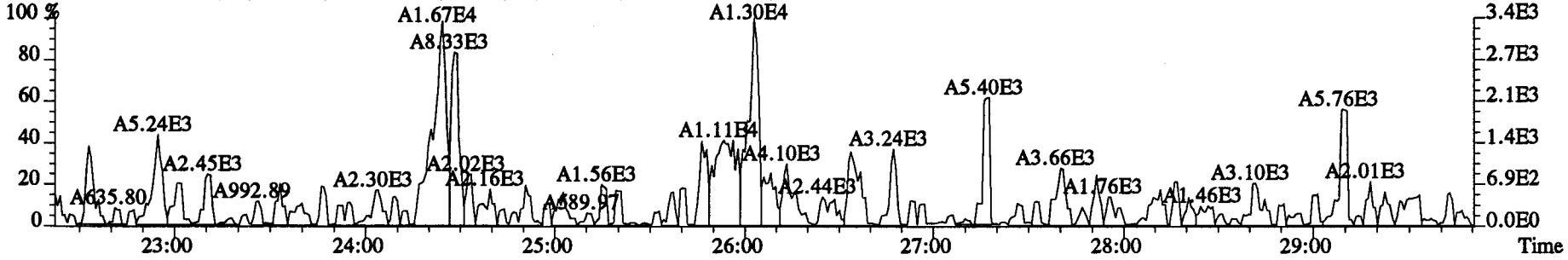


333.9339 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,304.0,1.00%,F,T)

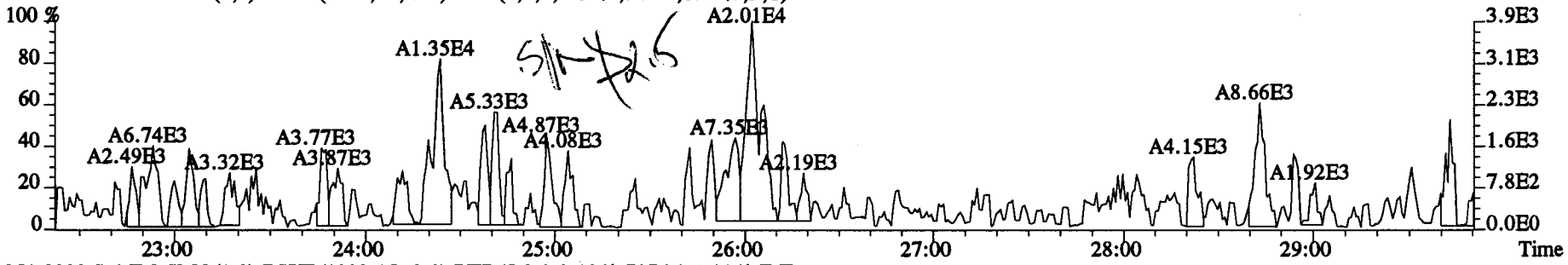


File:17FE104D5 #1-596 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN

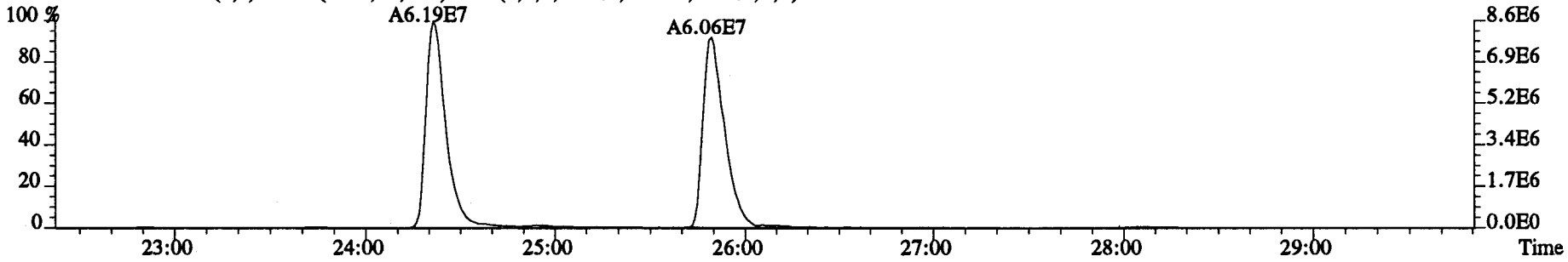
339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56.0,1.00%,F,T)



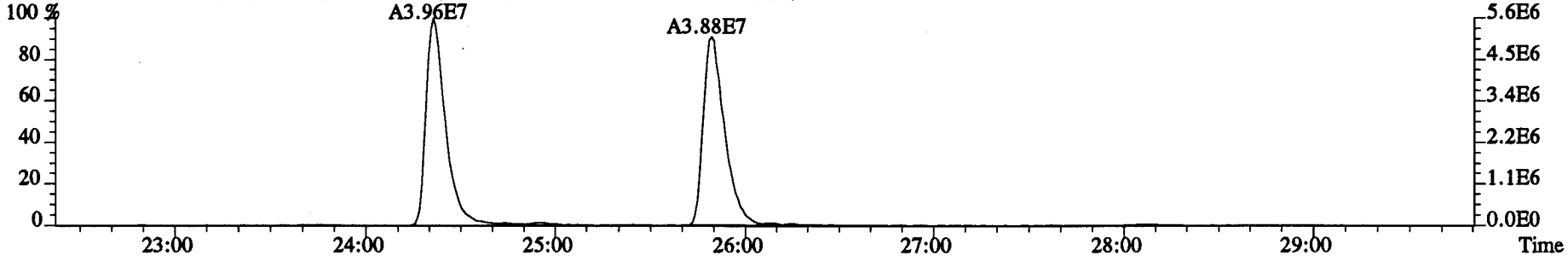
341.8567 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,548.0,1.00%,F,T)



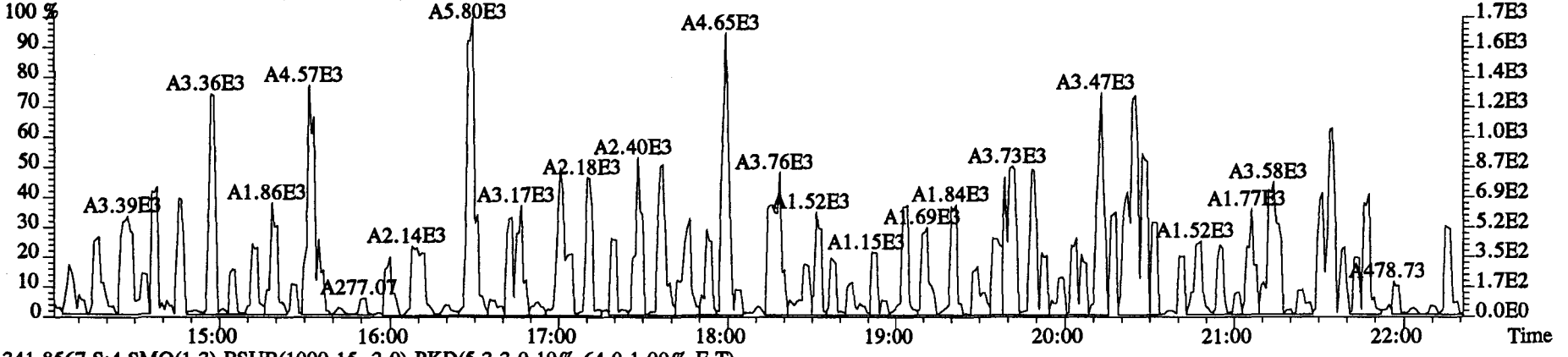
351.9000 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7876.0,1.00%,F,T)



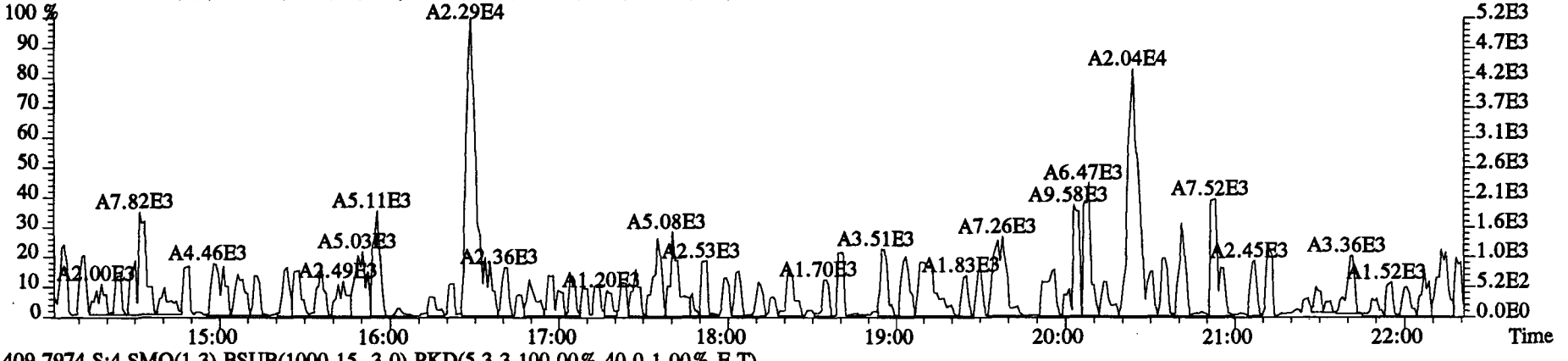
353.8970 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3780.0,1.00%,F,T)



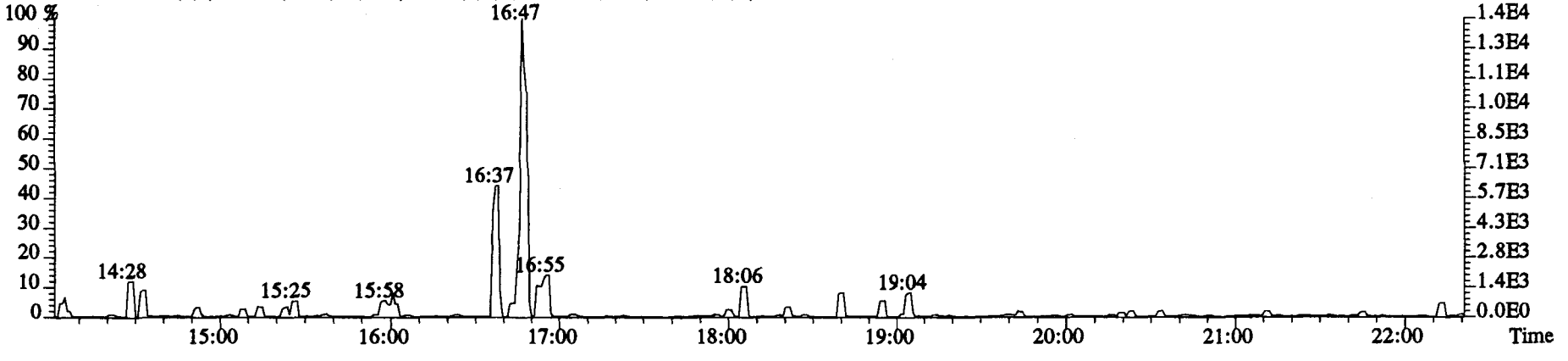
File:17FE104D5 #1-578 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN
339.8597 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,36.0,1.00%,F,T)



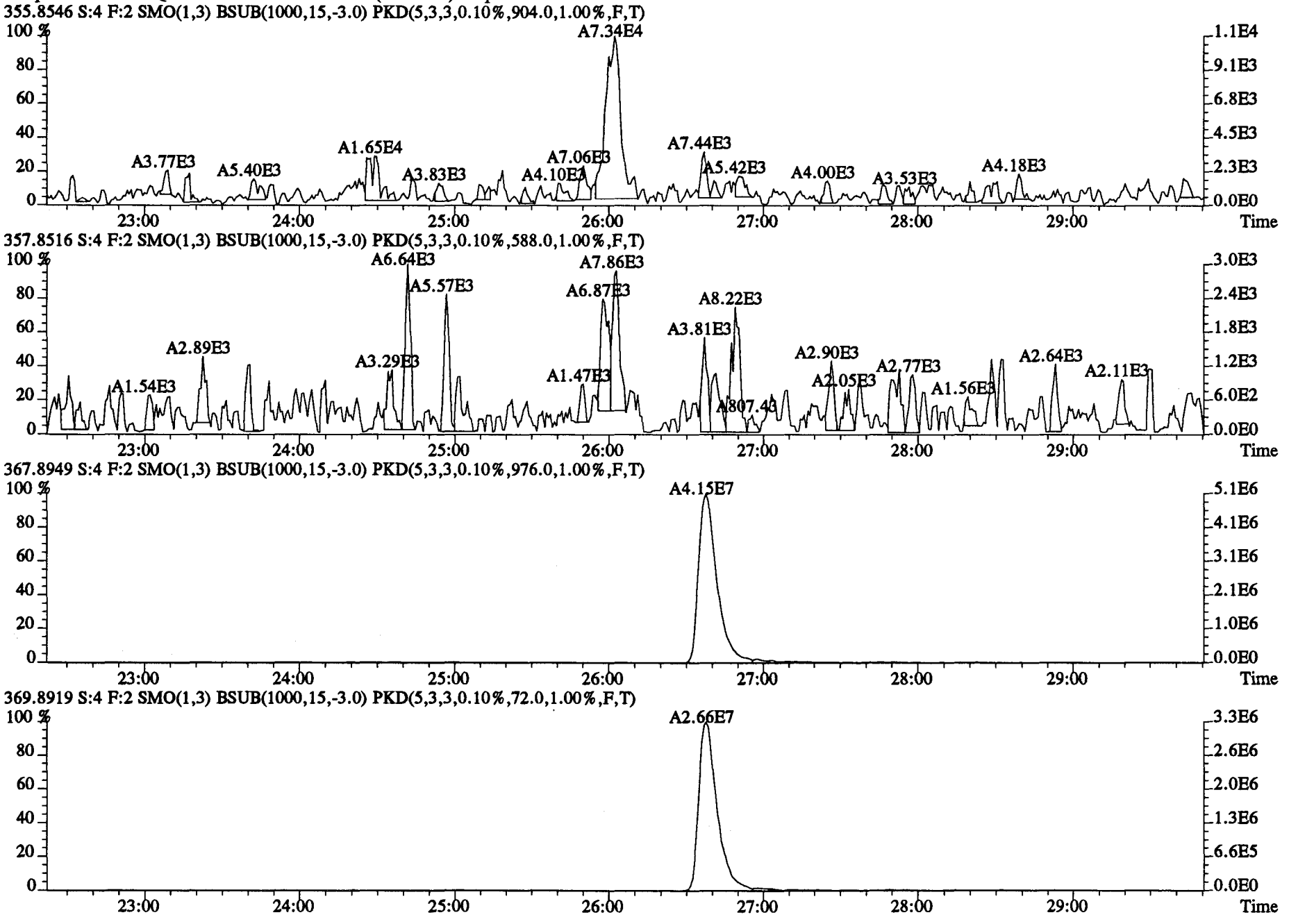
341.8567 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T)



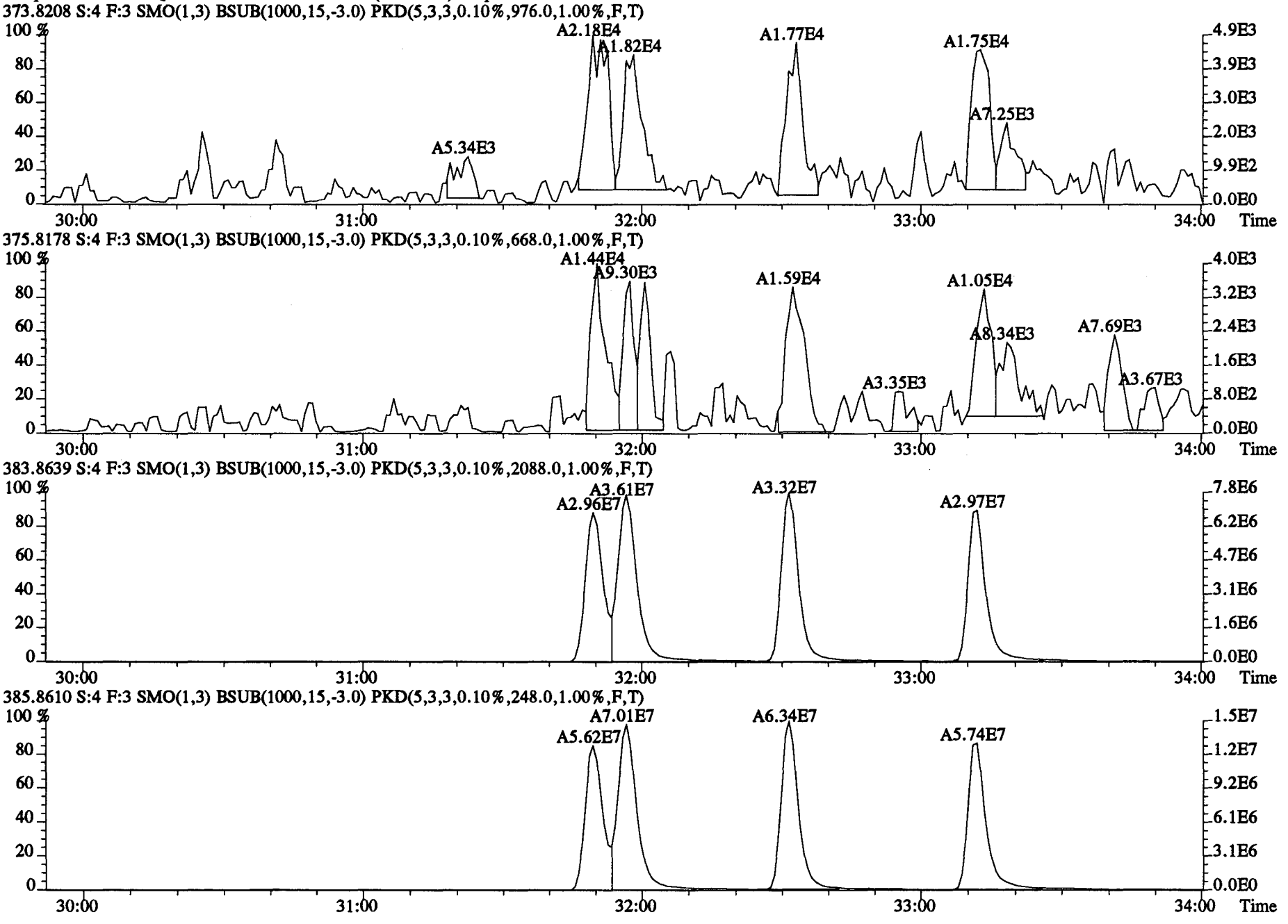
409.7974 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,40.0,1.00%,F,T)



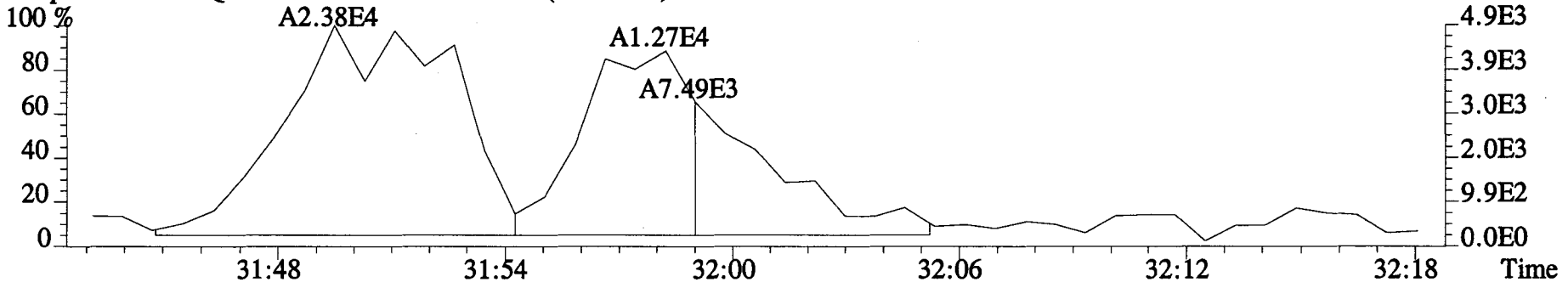
File:17FE104D5 #1-596 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN



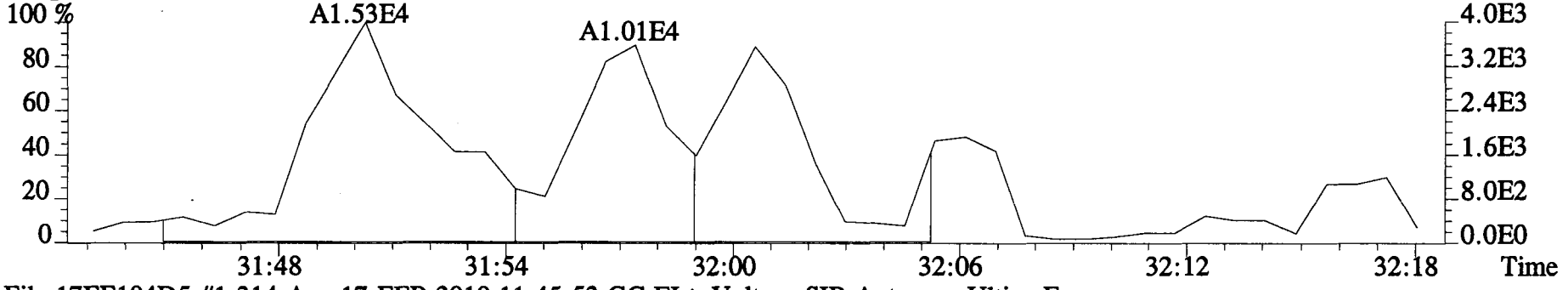
File:17FE104D5 #1-314 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN



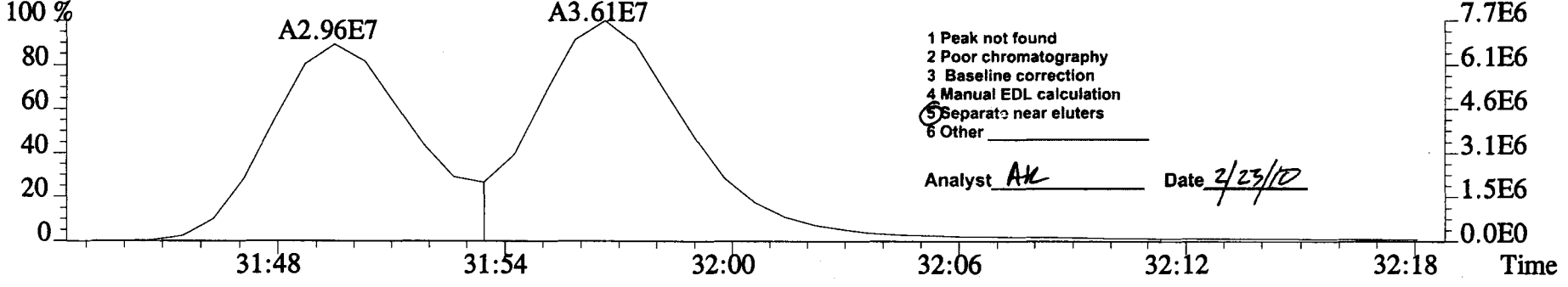
File:17FE104D5 #1-314 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,976.0,1.00%,F,T) Exp:DIOXIN Noise>
Sample Text:LVLQM-1-AAB :G0B120000-244 (517-2MB)



File:17FE104D5 #1-314 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
375.8178 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,668.0,1.00%,F,T) Exp:DIOXIN Noise>
Sample Text:LVLQM-1-AAB :G0B120000-244 (517-2MB)



File:17FE104D5 #1-314 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
383.8639 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2088.0,1.00%,F,T) Exp:DIOXIN Nois>
Sample Text:LVLQM-1-AAB :G0B120000-244 (517-2MB)

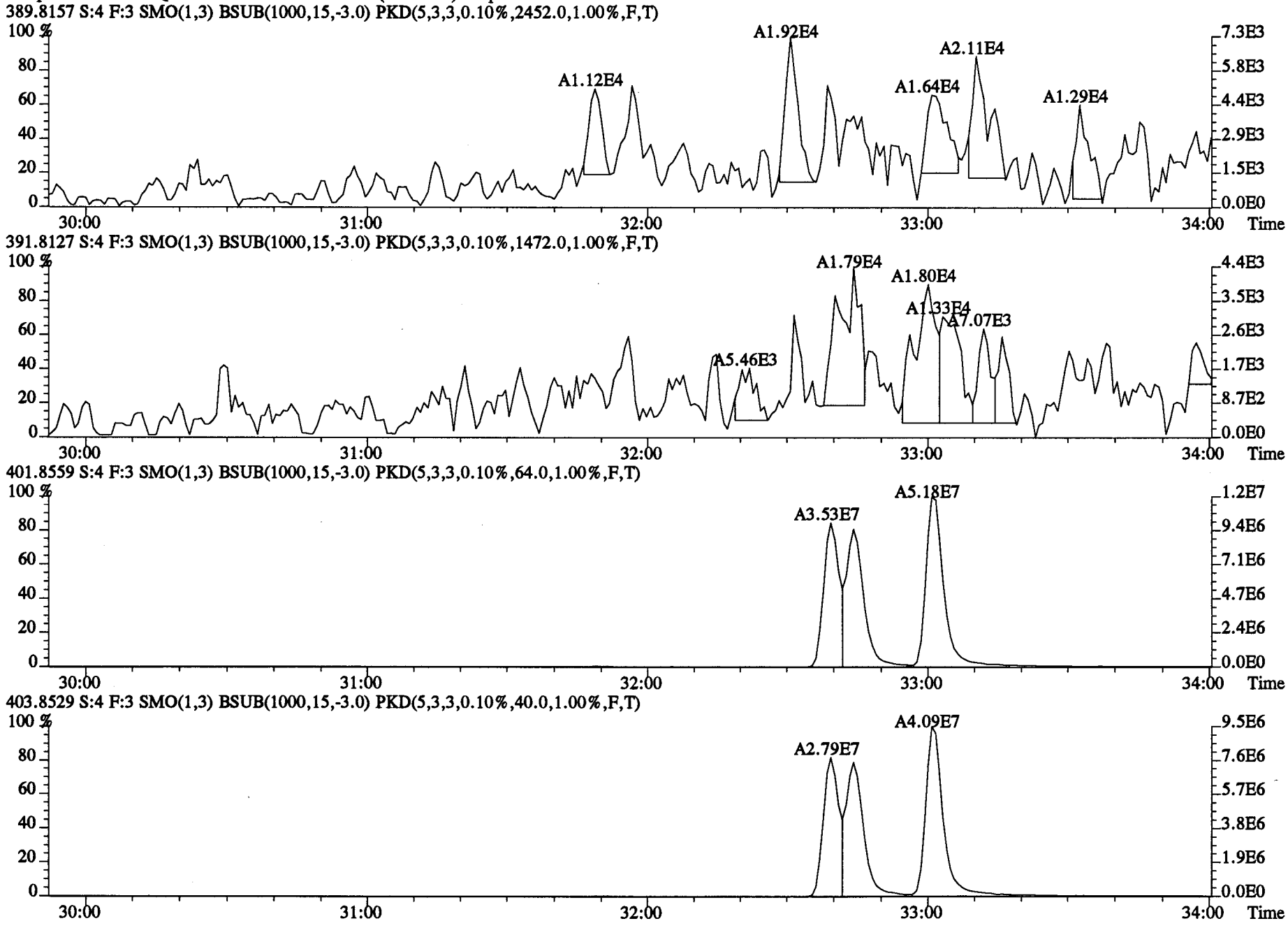


Manual Edit Codes

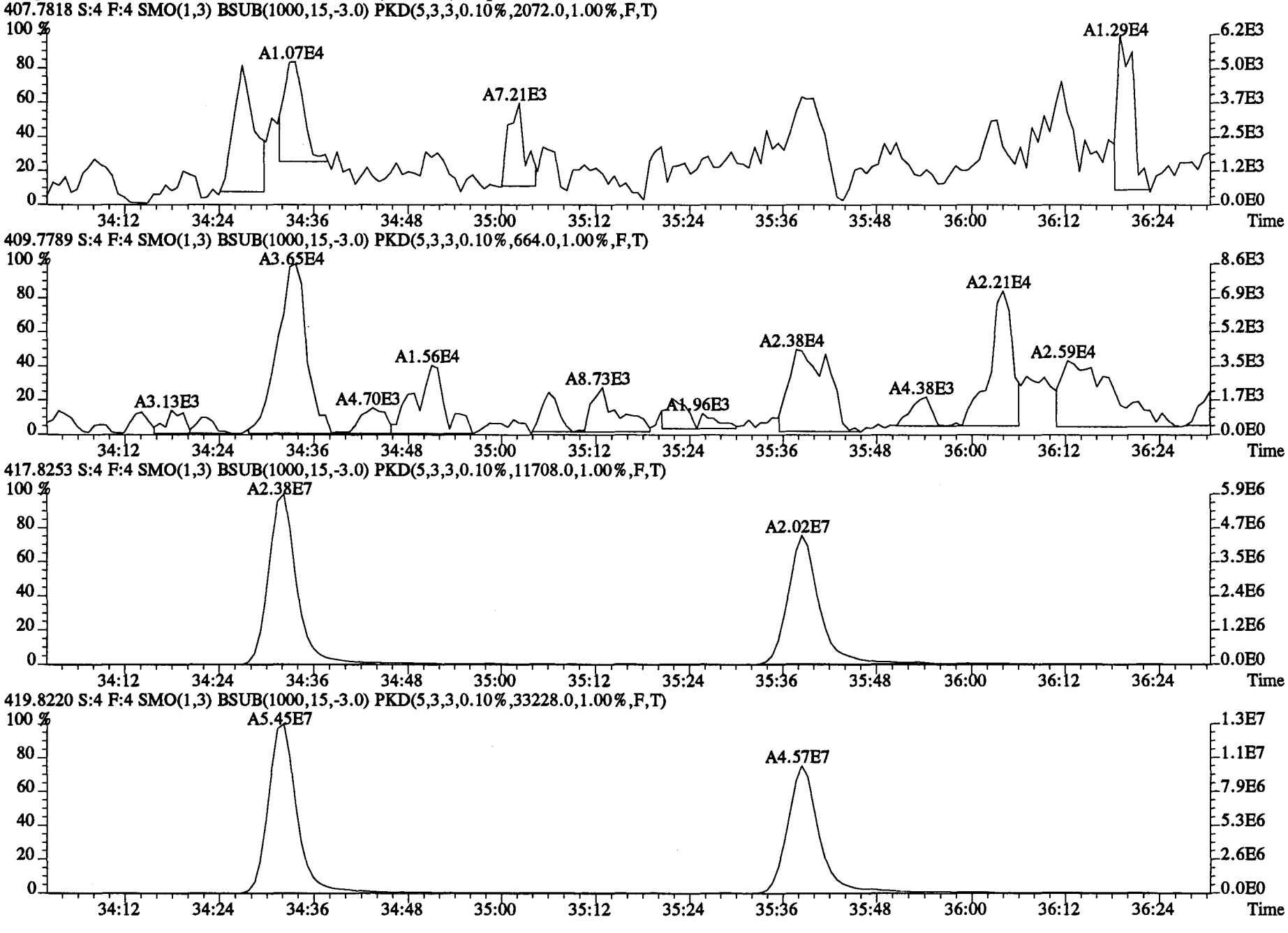
1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst AK Date 2/23/10

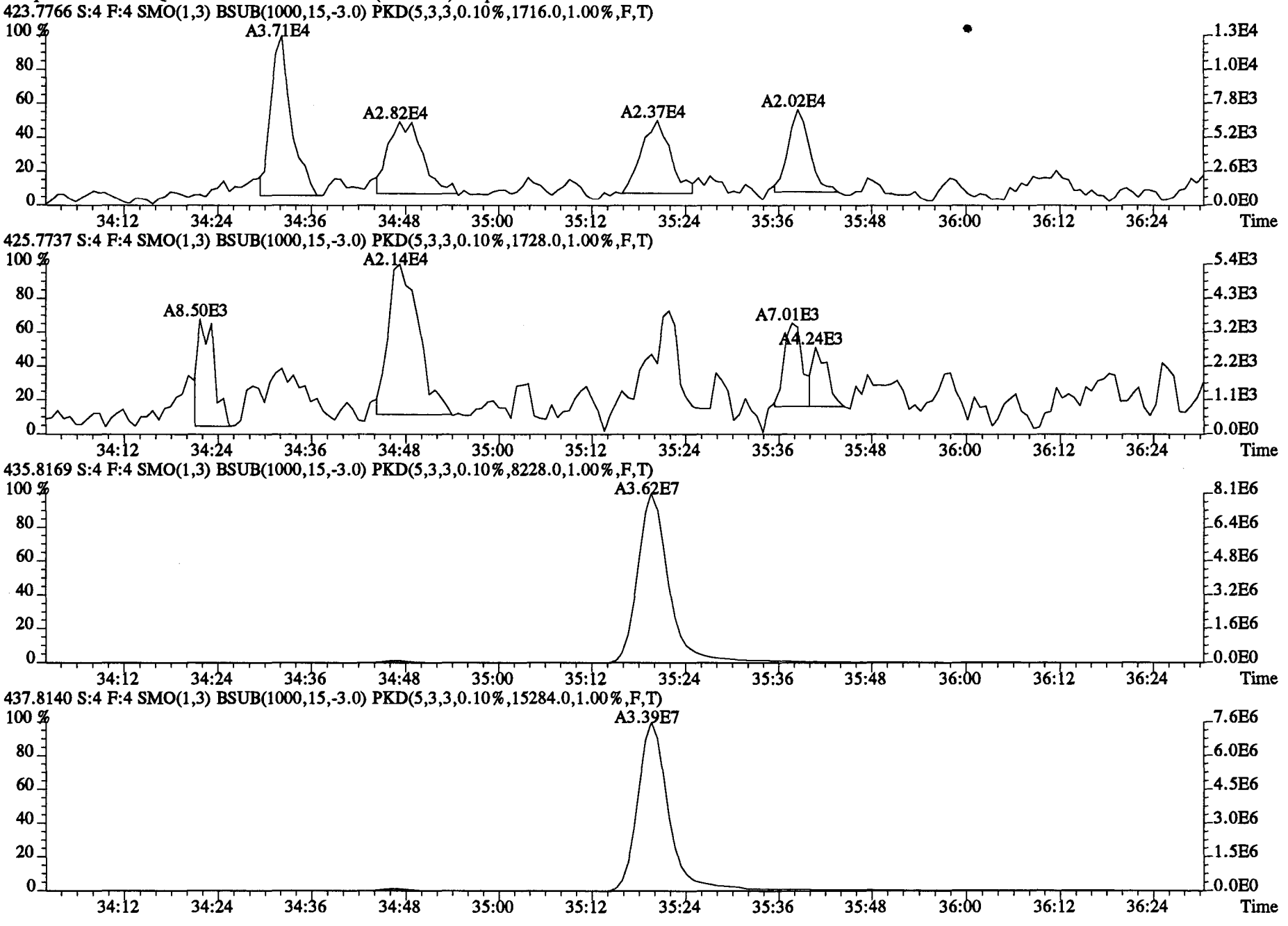
File:17FE104D5 #1-314 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN



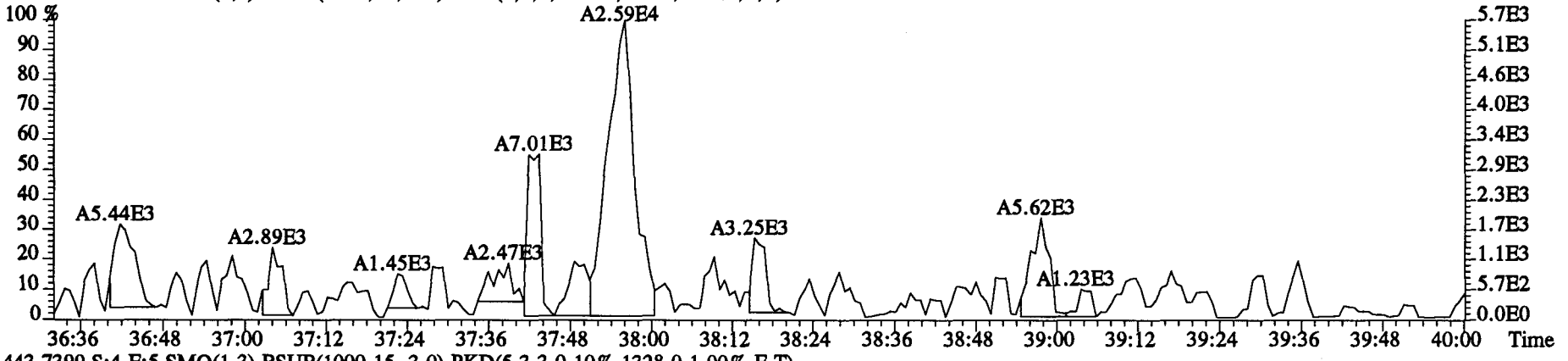
File:17FE104D5 #1-198 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN



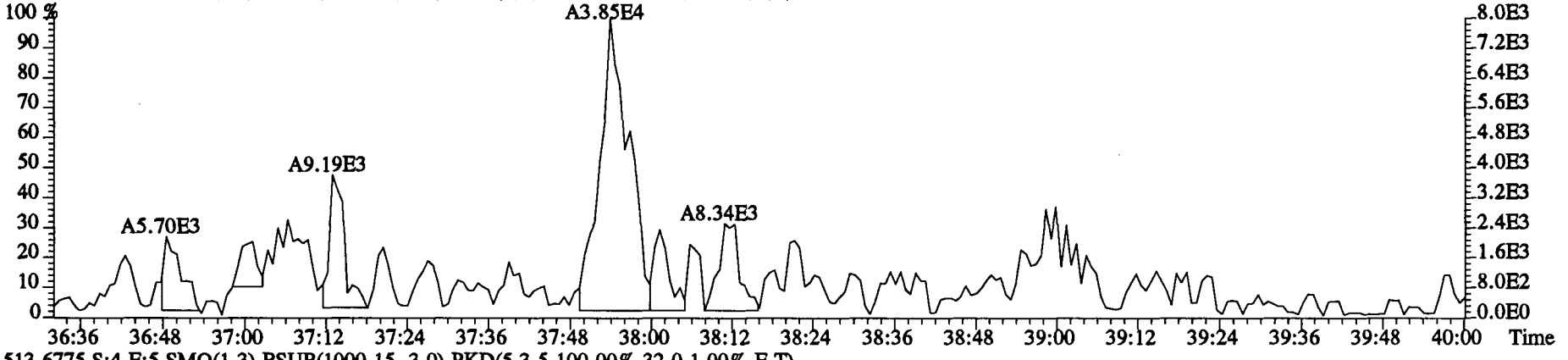
File:17FE104D5 #1-198 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN



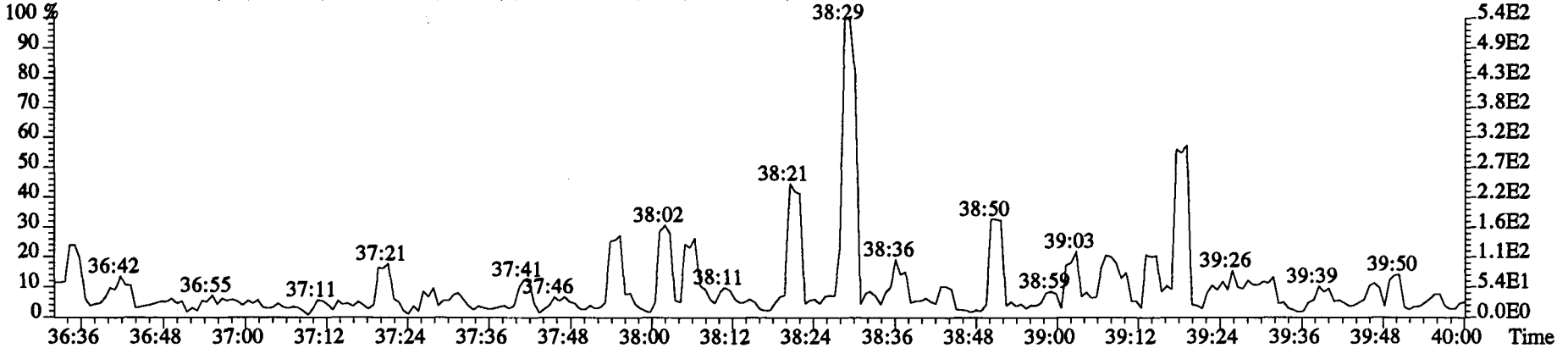
File:17FE104D5 #1-281 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN
441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,764.0,1.00%,F,T)



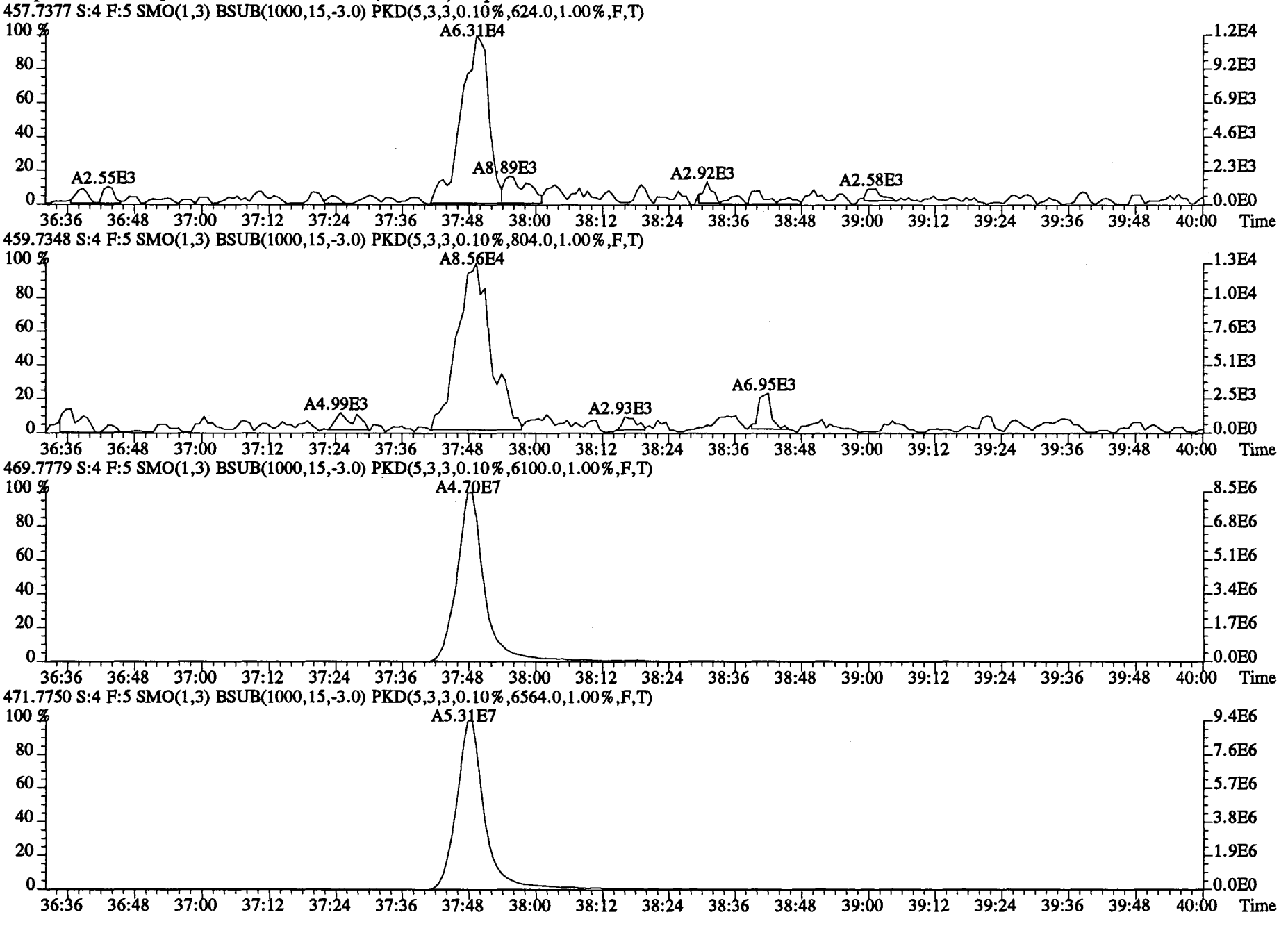
443.7399 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1328.0,1.00%,F,T)



513.6775 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,32.0,1.00%,F,T)

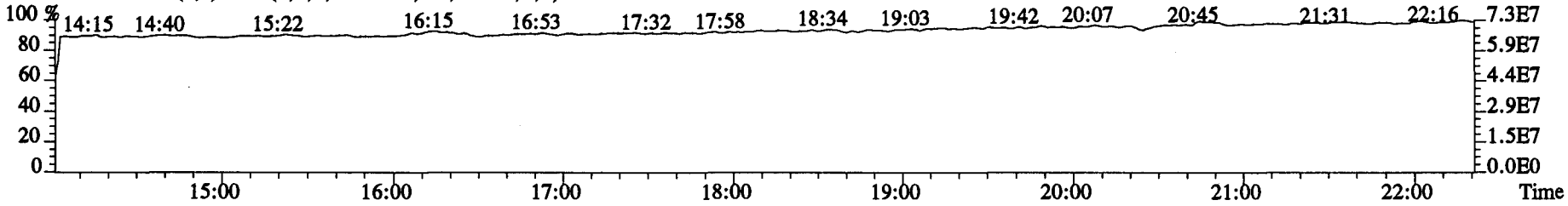


File:17FE104D5 #1-281 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN

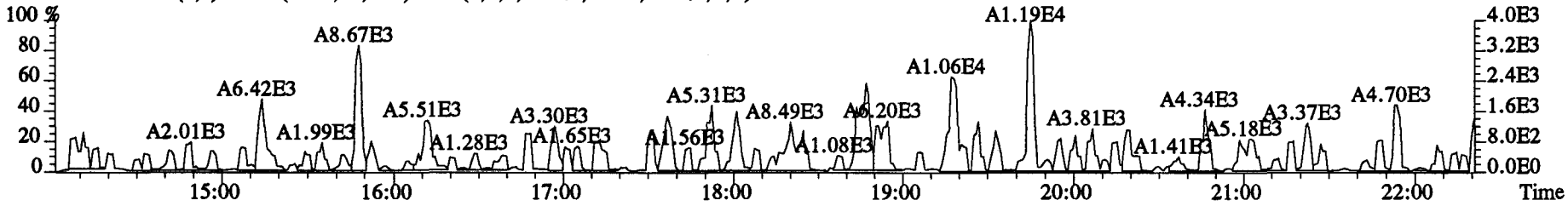


File:17FE104D5 #1-578 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN

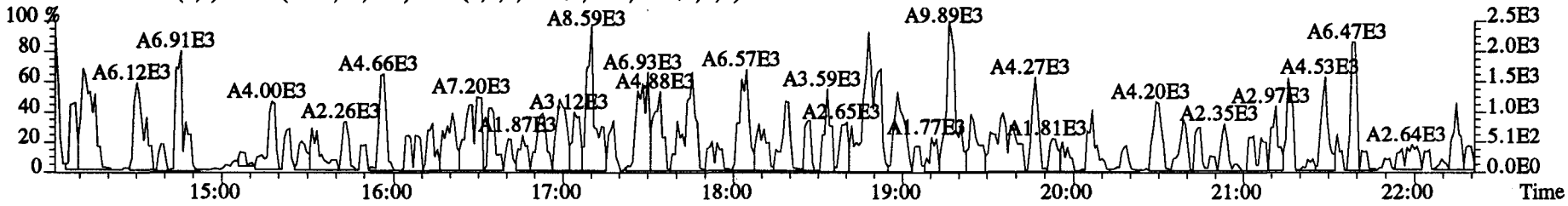
292.9825 S:4 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



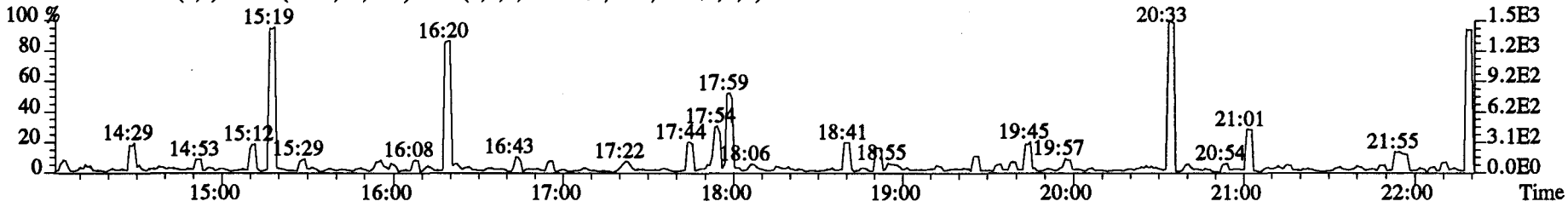
303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,100.0,1.00%,F,T)



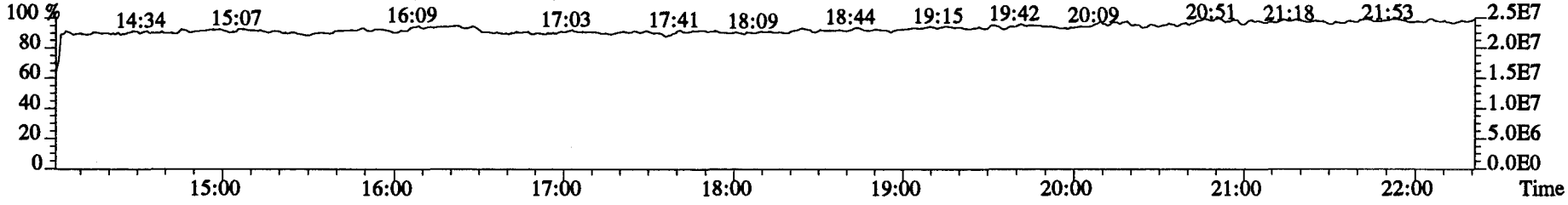
305.8987 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68.0,1.00%,F,T)



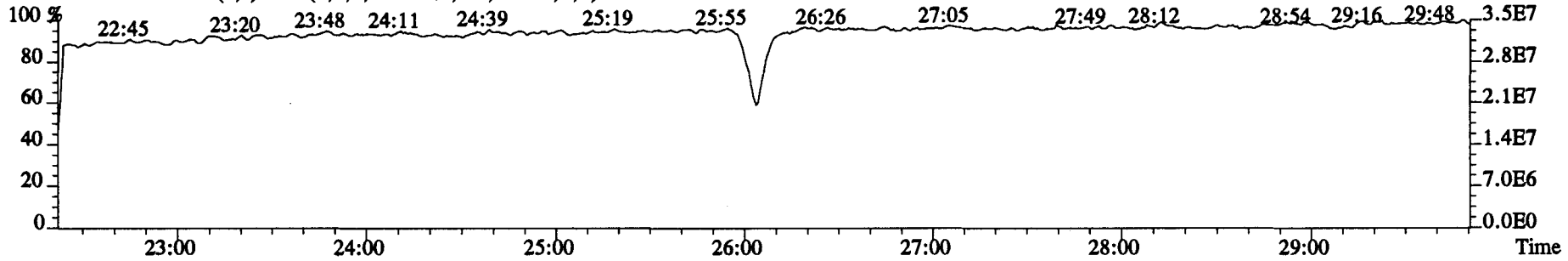
375.8364 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,44.0,1.00%,F,T)



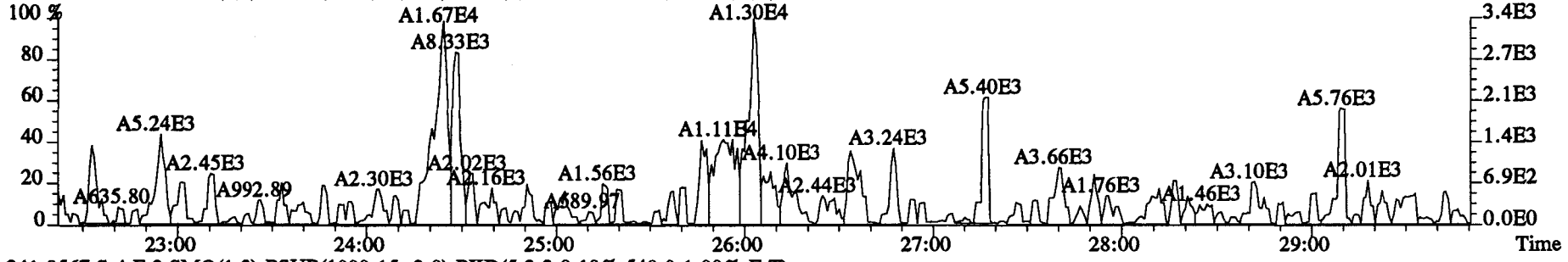
330.9792 S:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



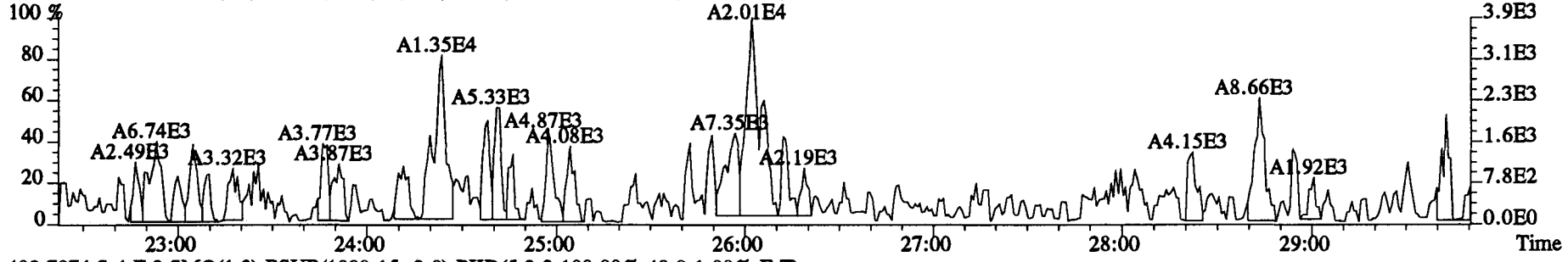
File:17FE104D5 #1-596 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN
342.9792 S:4 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



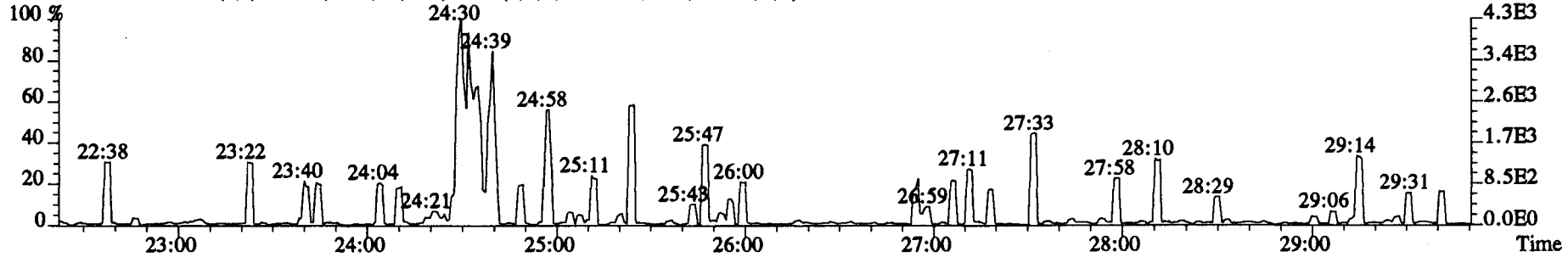
339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56.0,1.00%,F,T)



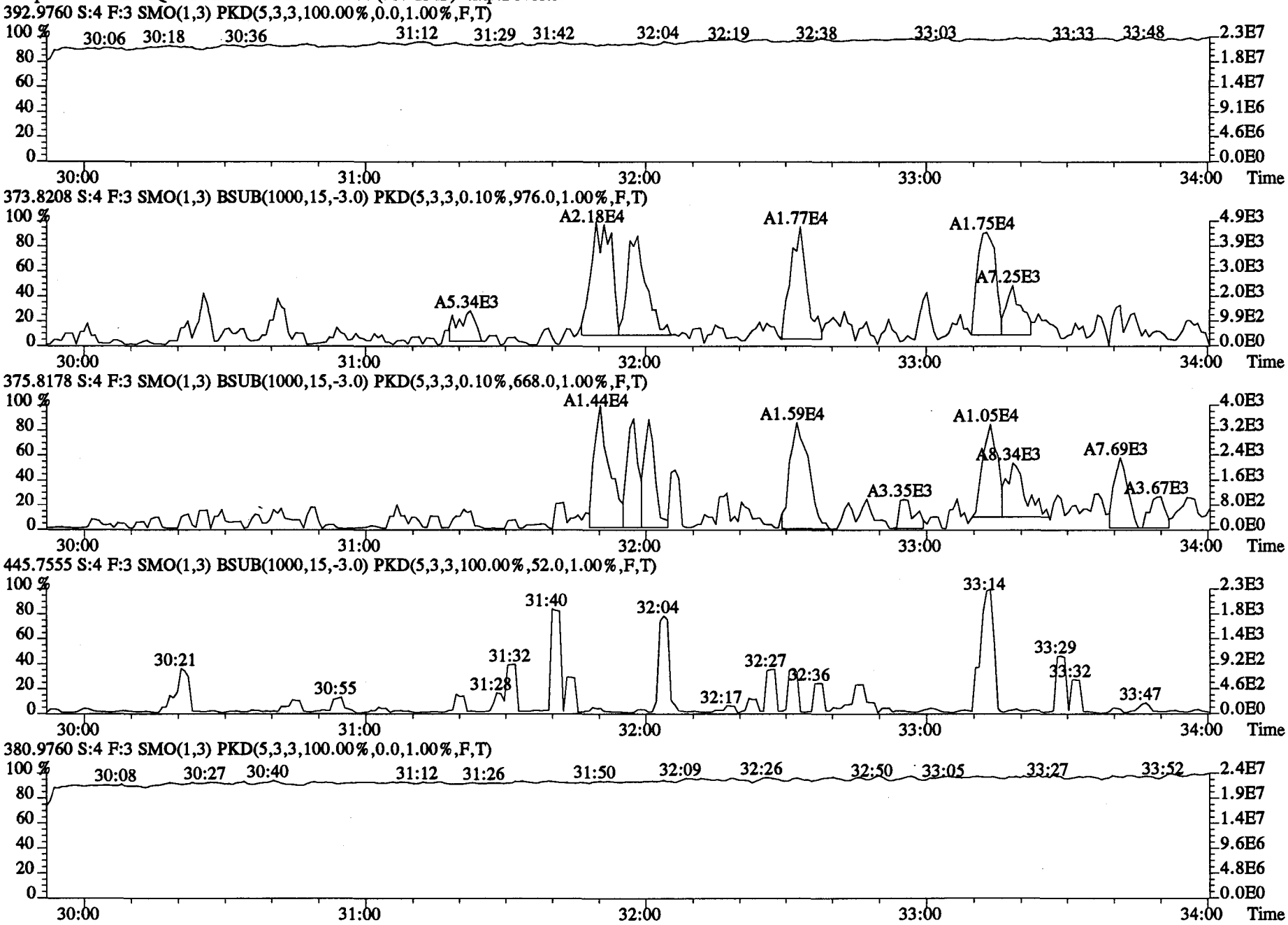
341.8567 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,548.0,1.00%,F,T)



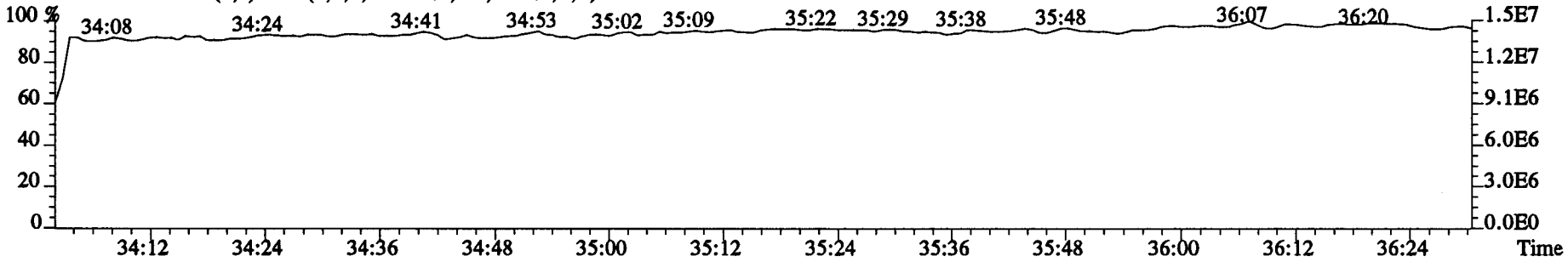
409.7974 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,48.0,1.00%,F,T)



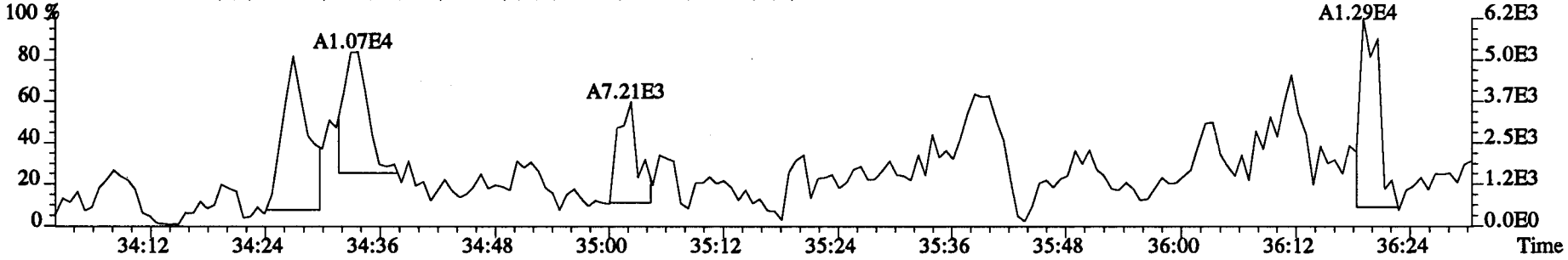
File:17FE104D5 #1-314 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN



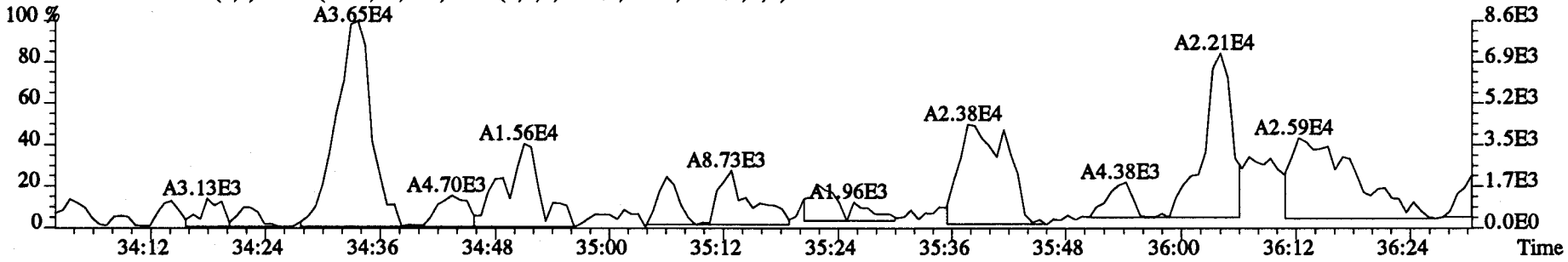
File:17FE104D5 #1-198 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN
430.9728 S:4 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



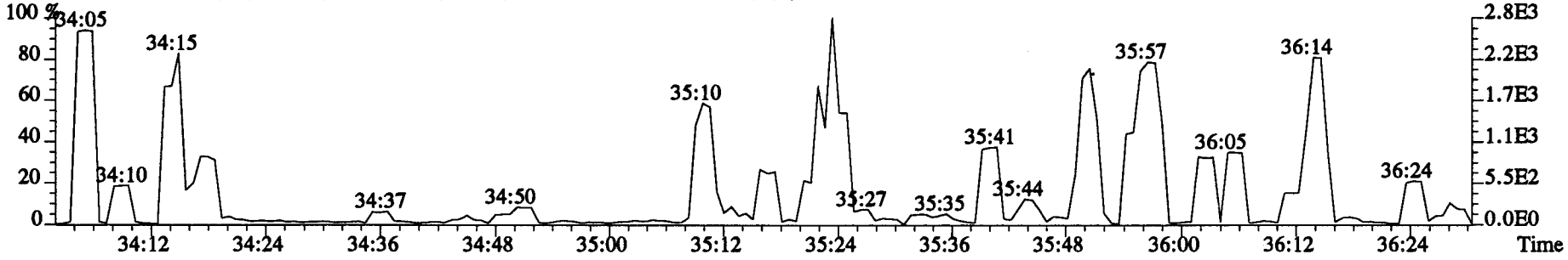
407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2072.0,1.00%,F,T)



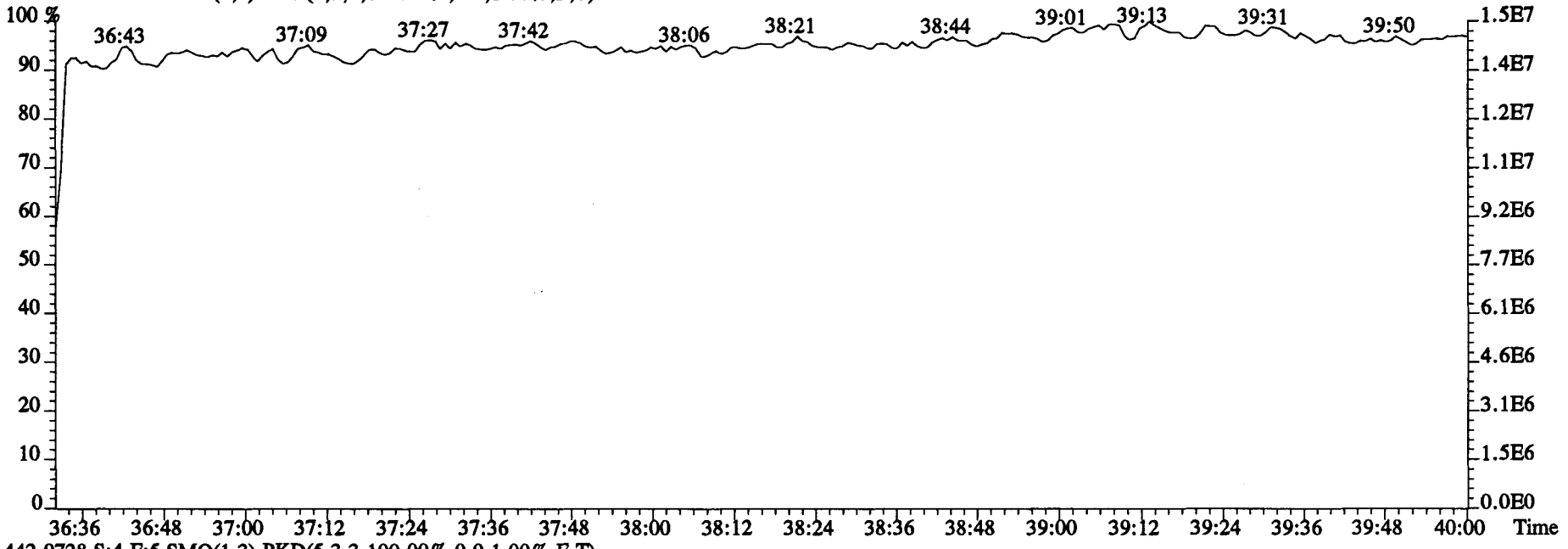
409.7789 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,664.0,1.00%,F,T)



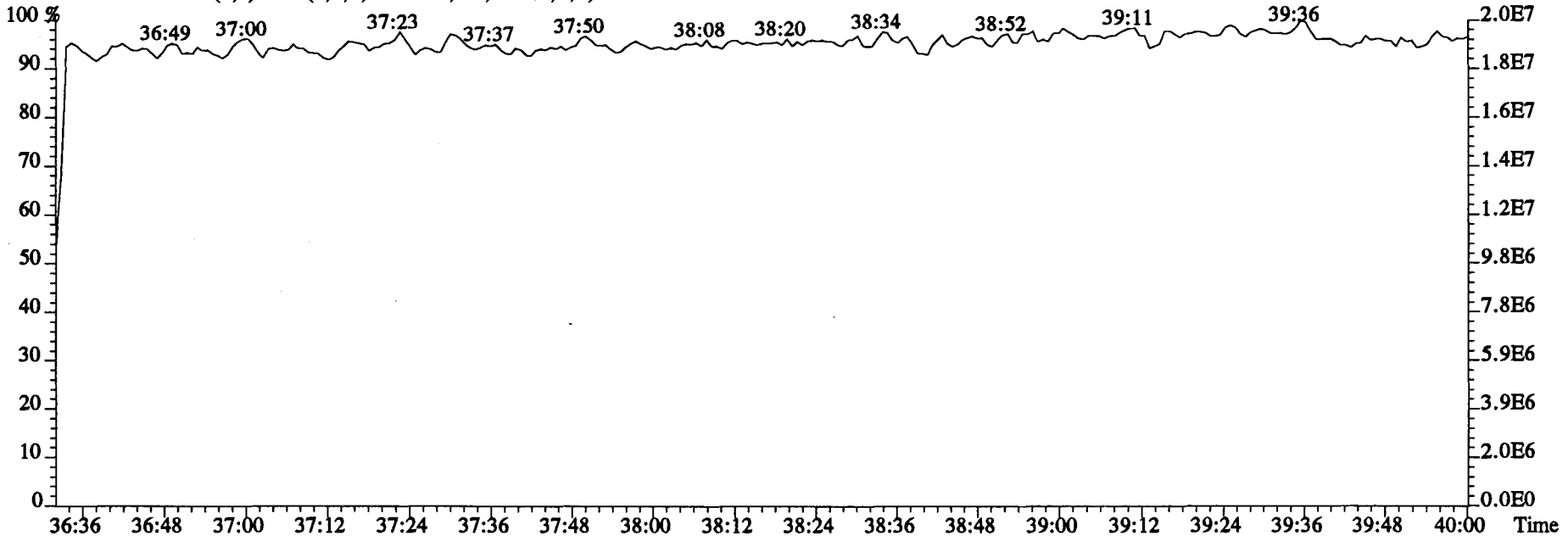
479.7165 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,44.0,1.00%,F,T)



File:17FE104D5 #1-281 Acq:17-FEB-2010 11:45:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:LVLQM-1-AAB :G0B120000-244 (517-2MB) Exp:DIOXIN
454.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: LVLQM-1-ACC Sample text: LVLQM-1-ACC :G0B120000-244 (517-2LCS)
Run #10 Filename: 17FE104D5 S: 6 I: 1 Results: 17FE104D58290
Acquired: 17-FEB-10 13:13:57 Processed: 17-FEB-10 15:33:18
Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.000000L

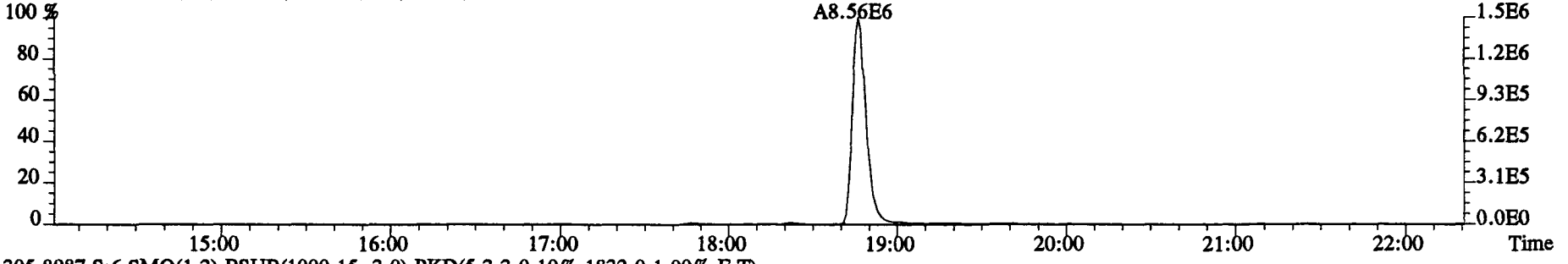
2/18/10 KSS

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	132469600	0.81	y	19:17	-	79.58	-	-	n
13C-2,3,7,8-TCDF	170783500	0.80	y	18:45	1.57	1641.86	0.98	82.1	n
2,3,7,8-TCDF	19201190	0.80	y	18:46	1.05	213.68	0.61	-	n
Total TCDF	19654728	0.72	y	17:46	1.05	218.73	0.61	-	n
13C-2,3,7,8-TCDD	106791100	0.79	y	19:31	1.00	1610.90	1.79	80.5	n
2,3,7,8-TCDD	11903410	0.80	y	19:33	1.05	211.51	1.13	-	n
Total TCDD	11951951	0.80	y	19:33	1.05	212.37	1.13	-	n
37Cl-2,3,7,8-TCDD	117056600	1.00	y	19:32	2.42	731.58	0.05	91.4	n
13C-1,2,3,7,8-PeCDF	117901300	1.57	y	24:21	1.34	1331.71	2.02	66.6	n
1,2,3,7,8-PeCDF	73466300	1.57	y	24:22	1.07	1165.22	2.16	-	n
2,3,4,7,8-PeCDF	69362700	1.56	y	25:51	1.04	1135.35	2.23	-	n
Total F2 PeCDF	144171366	2.44	n	23:45	1.05	2322.20	2.19	-	n
Total F1 PeCDF	80302	0.28	n	14:15	1.05	1.29	0.27	-	n
13C-1,2,3,7,8-PeCDD	73456000	1.57	y	26:37	0.81	1365.68	0.69	68.3	n
1,2,3,7,8-PeCDD	38871600	1.55	y	26:38	1.04	1019.68	2.93	-	n
Total PeCDD	39150776	3.06	n	24:22	1.04	1027.00	2.93	-	n
13C-1,2,3,7,8,9-HxCDD	89282000	1.27	y	33:02	-	54.73	-	-	n
13C-1,2,3,4,7,8-HxCDF	86761600	0.51	y	31:50	1.01	1915.64	0.81	95.8	n
1,2,3,4,7,8-HxCDF	59744700	1.25	y	31:50	1.24	1111.13	2.12	-	n
1,2,3,6,7,8-HxCDF	68176900	1.26	y	31:57	1.49	1054.63	1.76	-	n
2,3,4,6,7,8-HxCDF	63262100	1.26	y	32:32	1.34	1088.95	1.96	-	n
1,2,3,7,8,9-HxCDF	51294100	1.25	y	33:13	1.22	969.23	2.15	-	n
Total HxCDF	242624901	0.98	n	30:42	1.32	4226.51	1.99	-	n
13C-1,2,3,6,7,8-HxCDD	68723000	1.29	y	32:44	0.88	1741.74	0.44	87.1	n
1,2,3,4,7,8-HxCDD	34208200	1.26	y	32:40	0.90	1102.97	1.21	-	n
1,2,3,6,7,8-HxCDD	42274500	1.30	y	32:45	1.19	1033.83	0.92	-	n
1,2,3,7,8,9-HxCDD	42186500	1.25	y	33:02	1.16	1060.50	0.94	-	n
Total HxCDD	118669200	1.26	y	32:40	1.08	3197.29	1.01	-	n
13C-1,2,3,4,6,7,8-HpCDF	76547700	0.45	y	34:32	0.94	1814.94	9.04	90.7	n
1,2,3,4,6,7,8-HpCDF	56129100	0.96	y	34:33	1.30	1129.04	2.27	-	n
1,2,3,4,7,8,9-HpCDF	42747700	0.96	y	35:39	1.10	1013.93	2.67	-	n
Total HpCDF	99834125	0.96	y	34:33	1.20	2163.82	2.45	-	n
13C-1,2,3,4,6,7,8-HpCDD	63071900	1.09	y	35:20	0.79	1781.86	4.28	89.1	n
1,2,3,4,6,7,8-HpCDD	36395900	1.05	y	35:20	1.06	1092.90	2.78	-	n
Total HpCDD	36823166	0.90	y	34:47	1.06	1105.73	2.78	-	n
13C-OCDD	80076400	0.90	y	37:49	0.58	3082.46	4.70	77.1	n

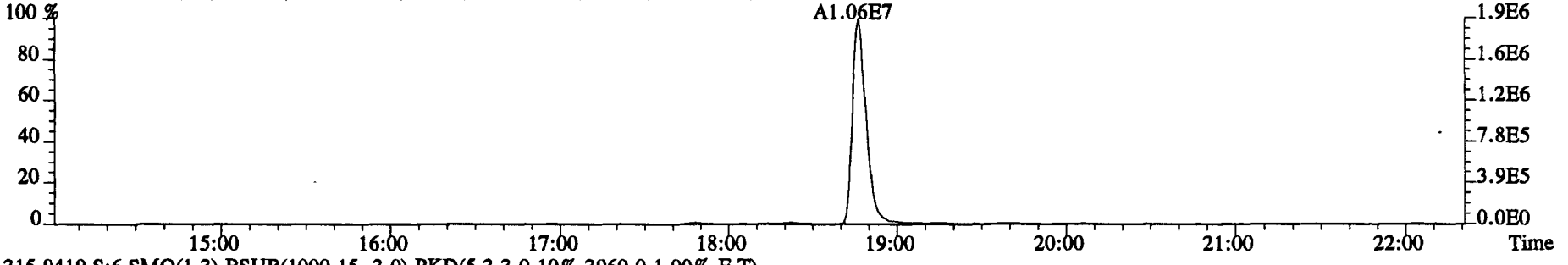
OCDF	66924200	0.91	y	37:55	1.56	2146.18	2.01	-	n
OCDD	51813100	0.91	y	37:49	1.19	2169.29	2.84	-	n

File:17FE104D5 #1-578 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN

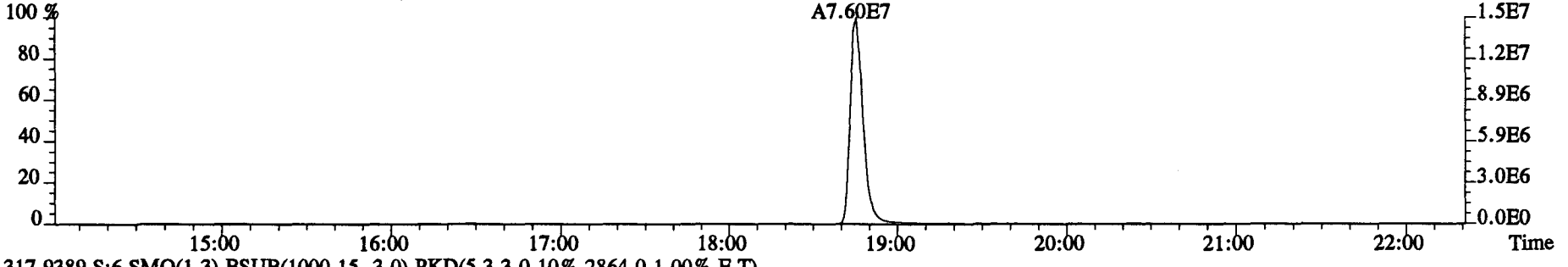
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1724.0,1.00%,F,T)



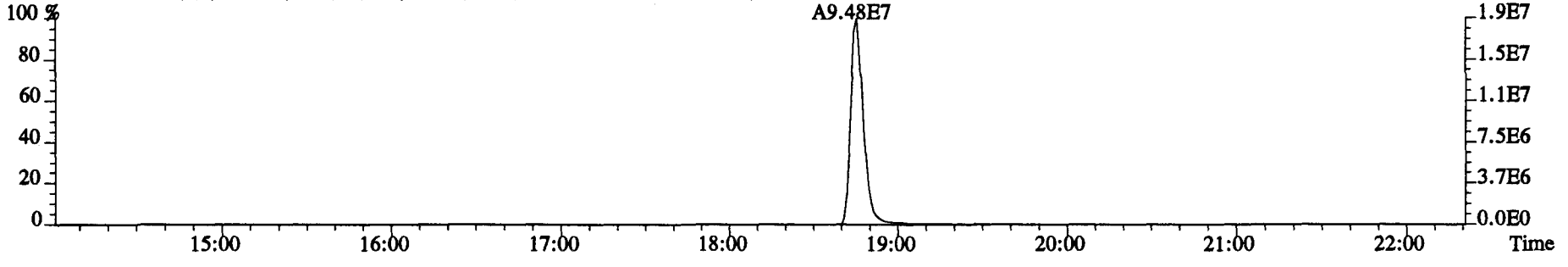
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1832.0,1.00%,F,T)



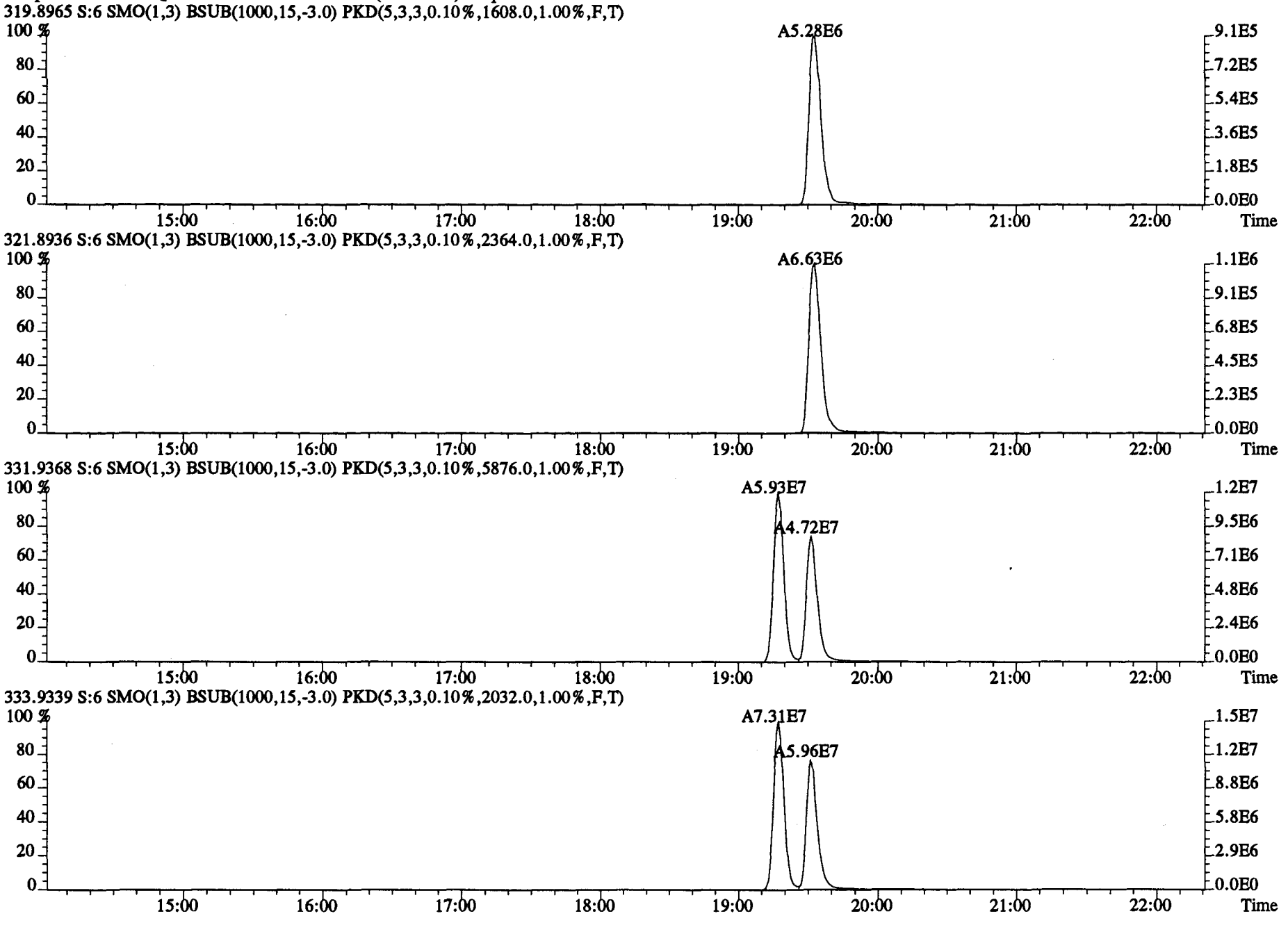
315.9419 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3960.0,1.00%,F,T)



317.9389 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2864.0,1.00%,F,T)

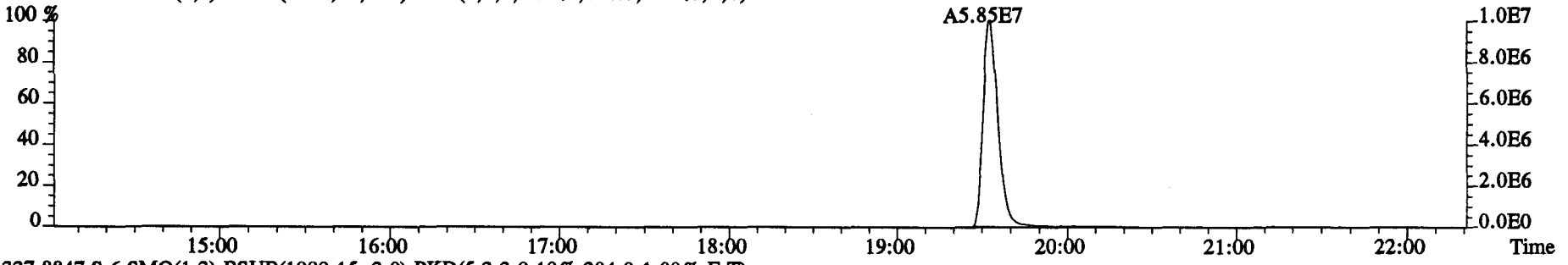


File:17FE104D5 #1-578 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN

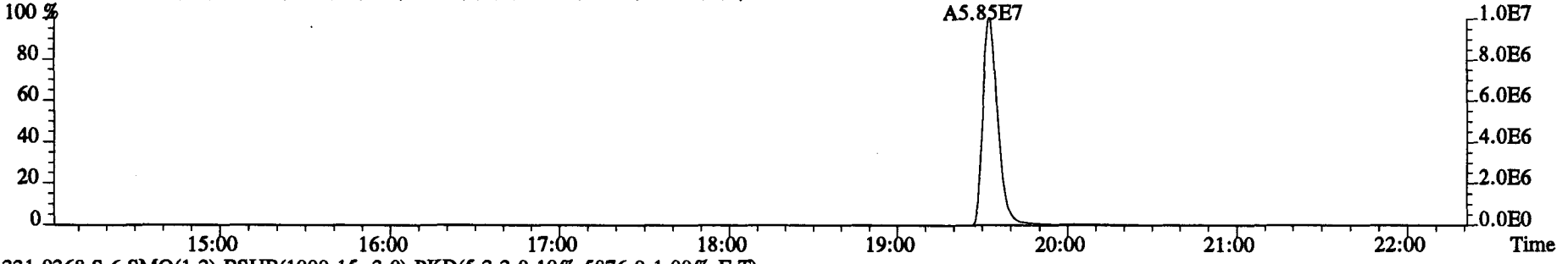


File:17FE104D5 #1-578 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN

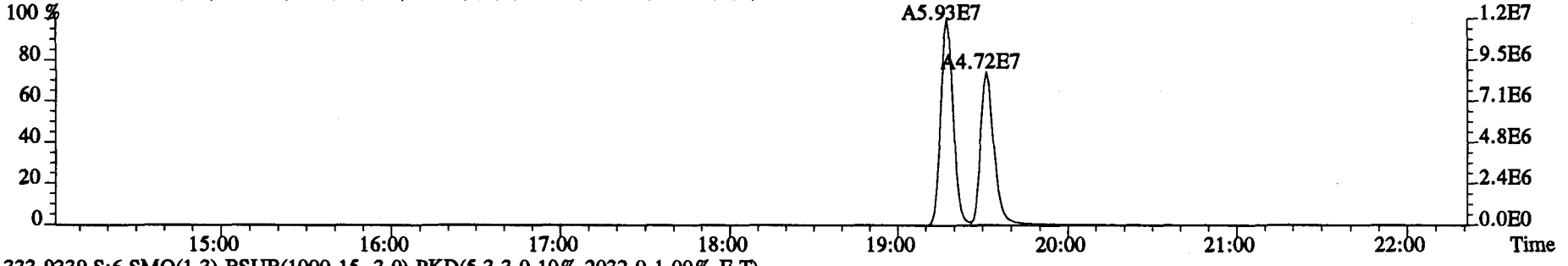
327.8847 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,284.0,1.00%,F,T)



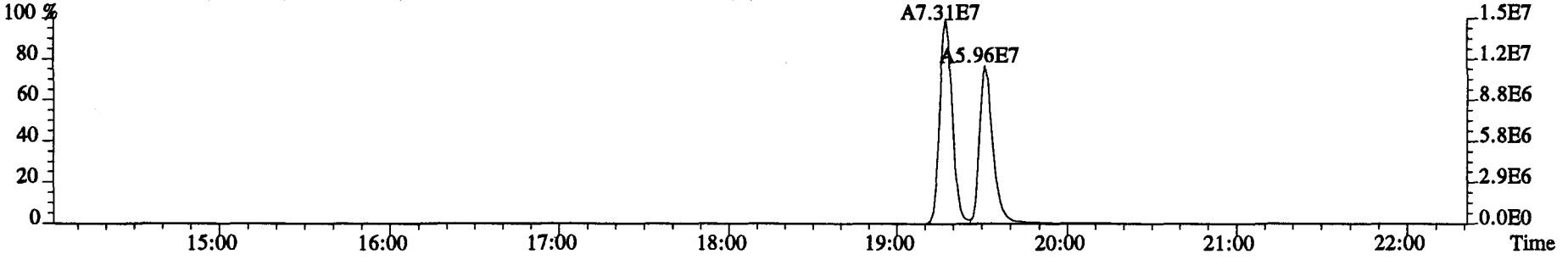
327.8847 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,284.0,1.00%,F,T)



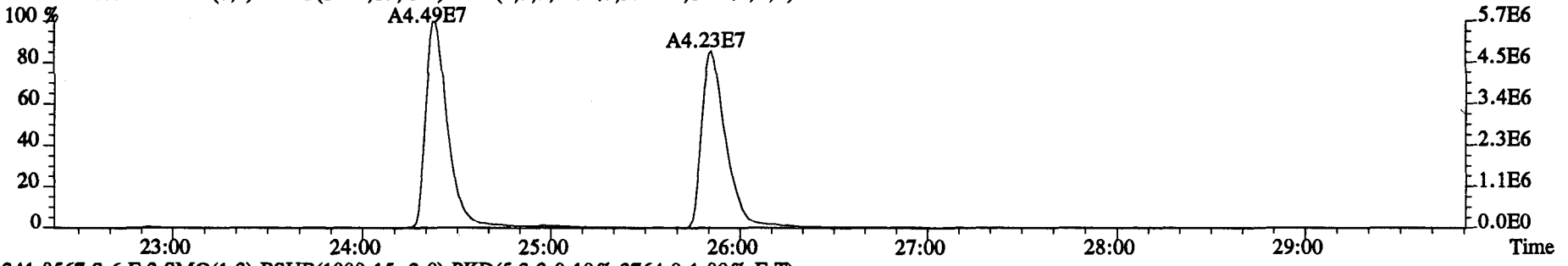
331.9368 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5876.0,1.00%,F,T)



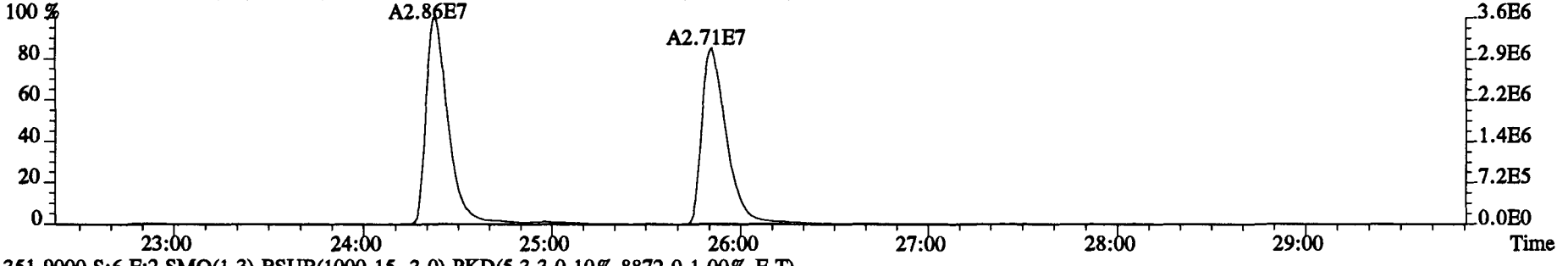
333.9339 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2032.0,1.00%,F,T)



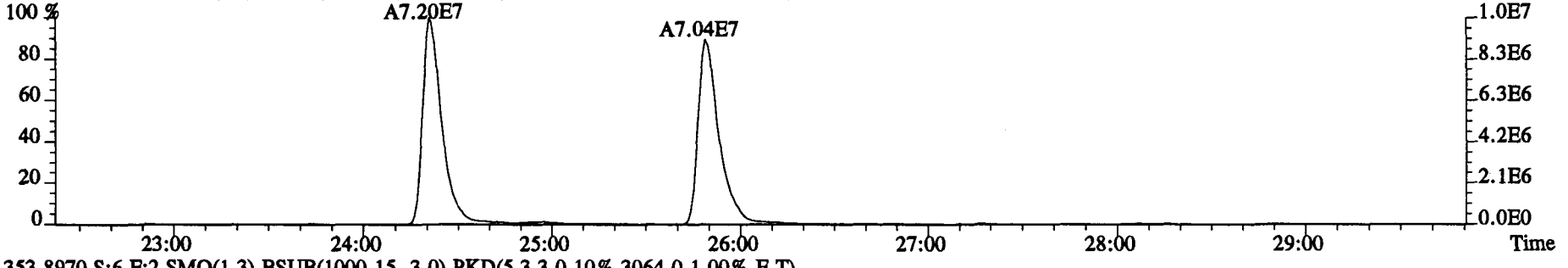
File:17FE104D5 #1-596 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN
339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3760.0,1.00%,F,T)



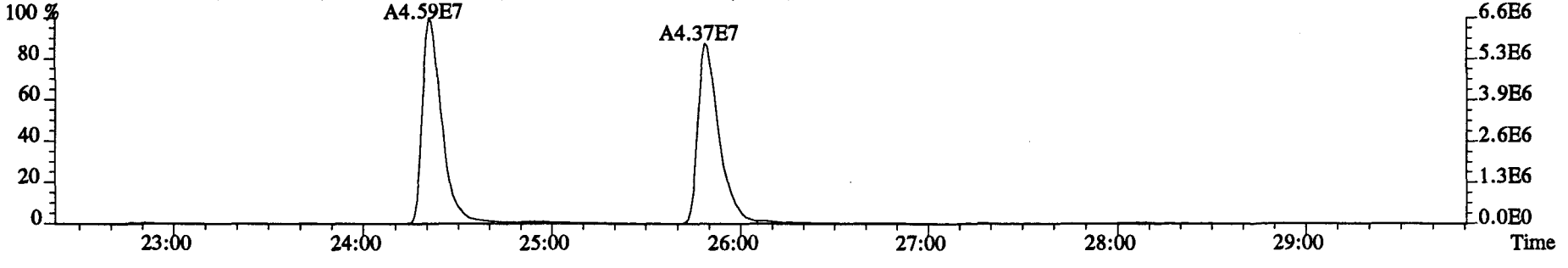
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2764.0,1.00%,F,T)



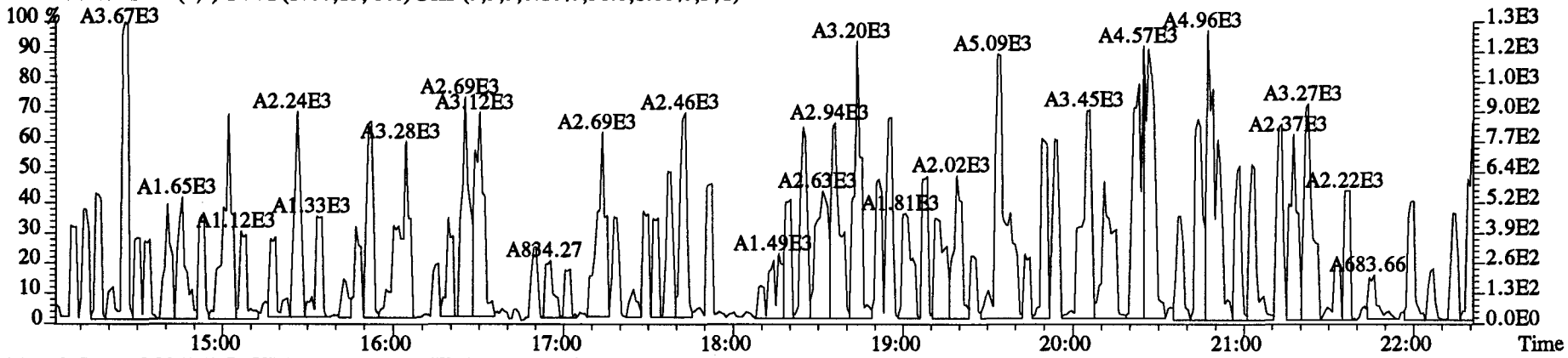
351.9000 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8872.0,1.00%,F,T)



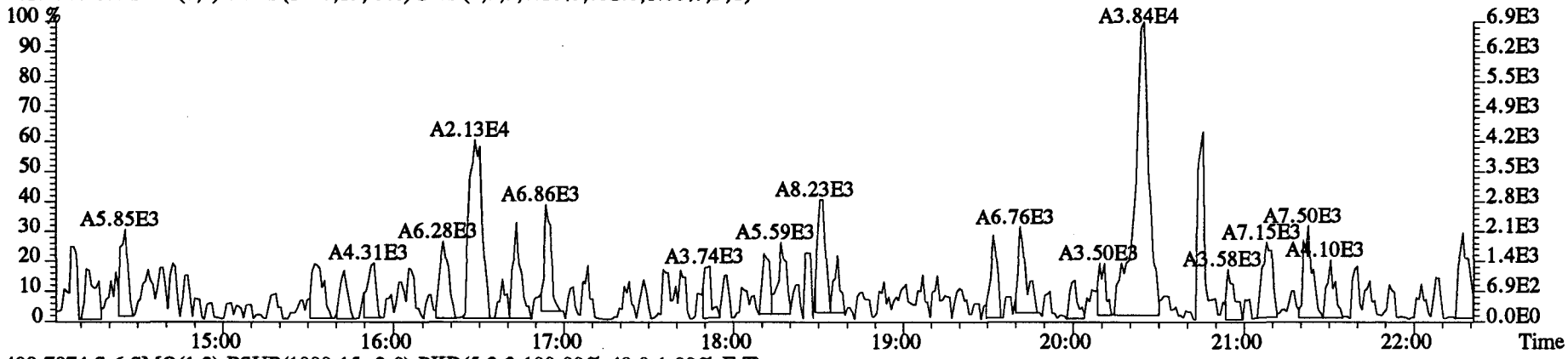
353.8970 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3064.0,1.00%,F,T)



File:17FE104D5 #1-578 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN
339.8597 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56.0,1.00%,F,T)



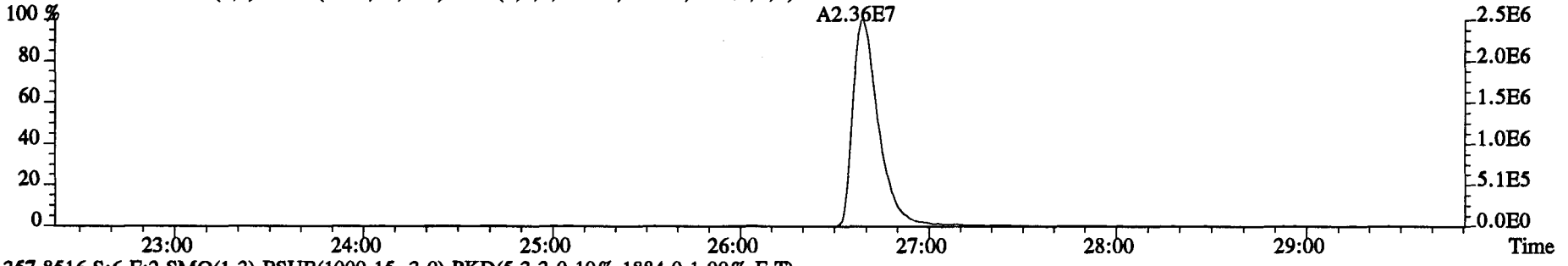
341.8567 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,752.0,1.00%,F,T)



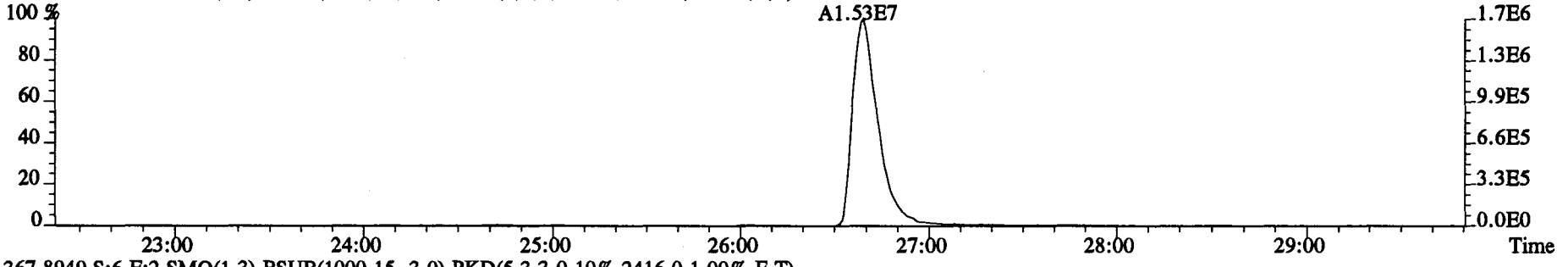
409.7974 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,48.0,1.00%,F,T)

File:17FE104D5 #1-596 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN

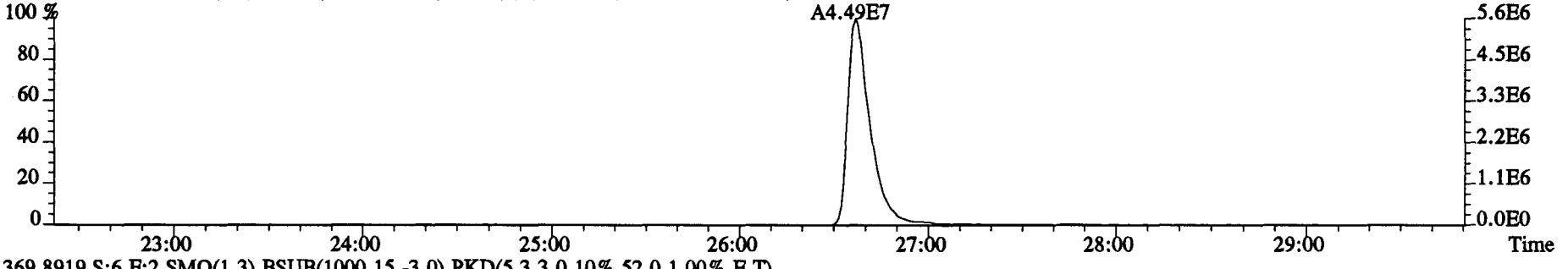
355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2728.0,1.00%,F,T)



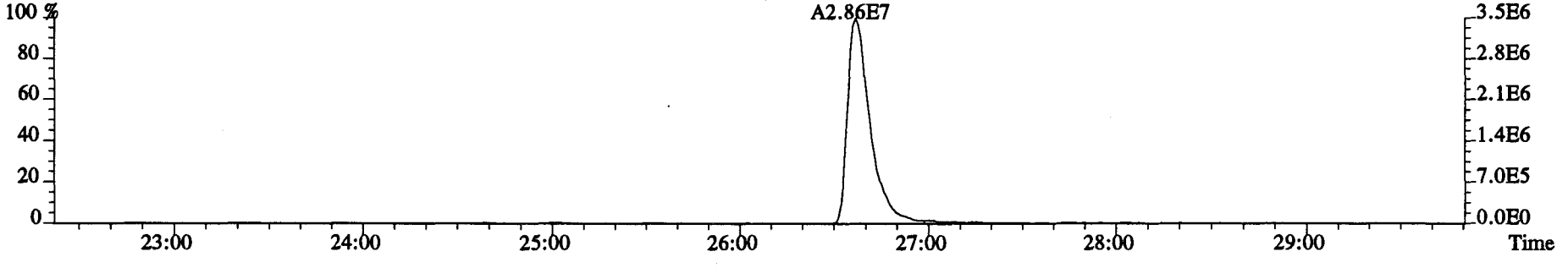
357.8516 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1884.0,1.00%,F,T)



367.8949 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2416.0,1.00%,F,T)

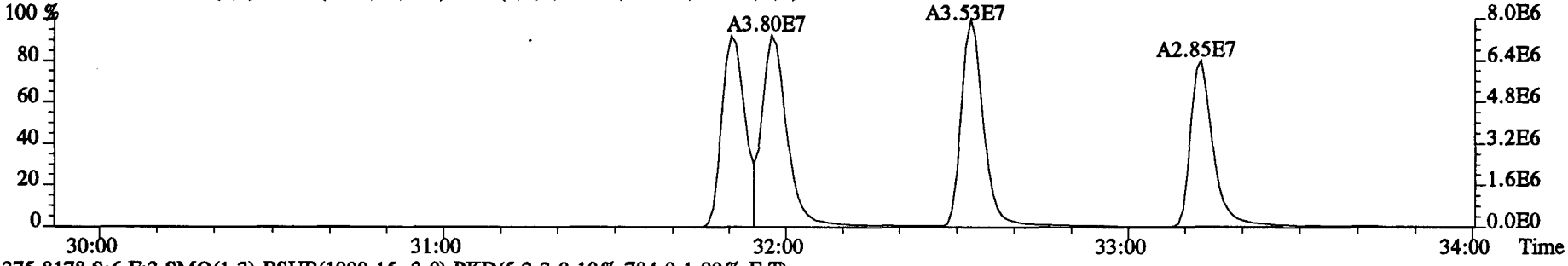


369.8919 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52.0,1.00%,F,T)

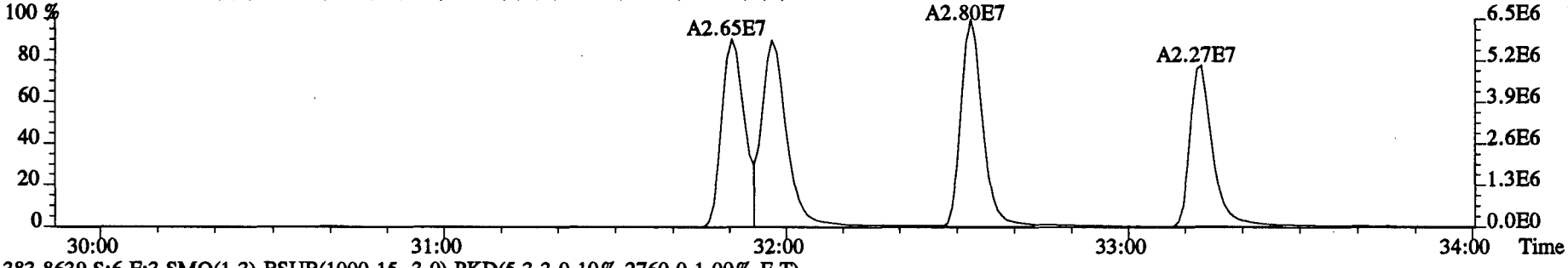


File:17FE104D5 #1-314 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN

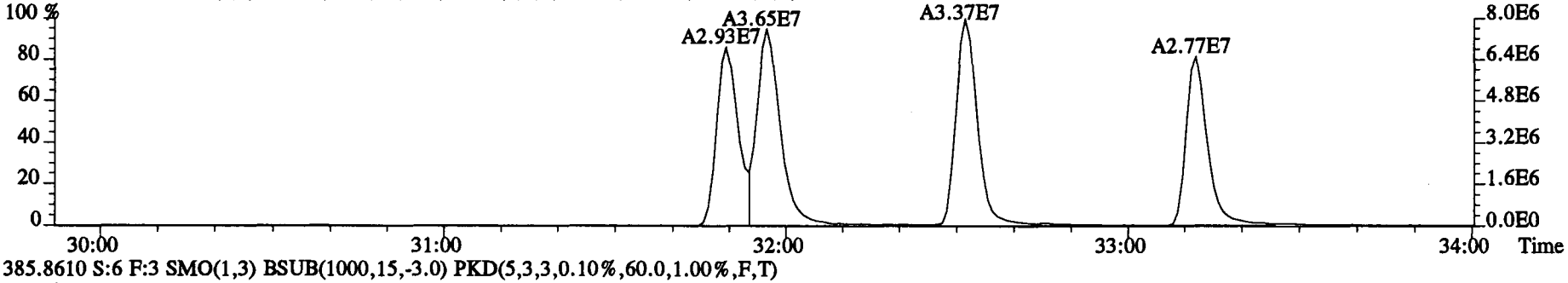
373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8056.0,1.00%,F,T)



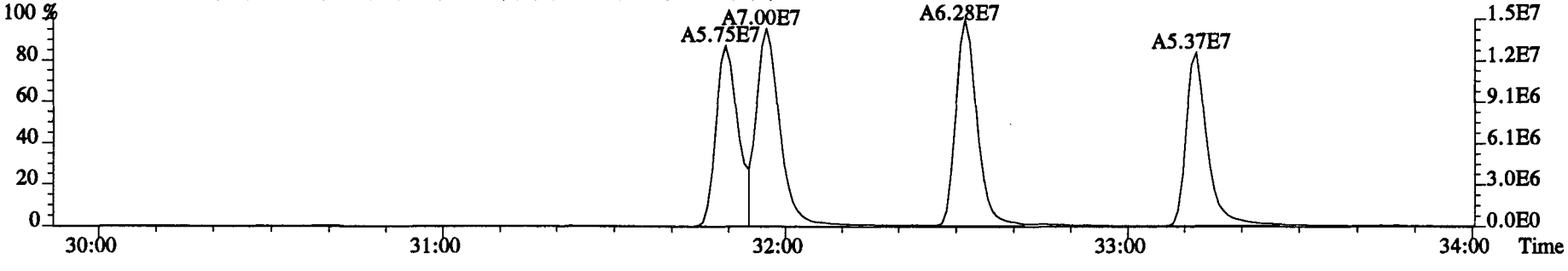
375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,784.0,1.00%,F,T)



383.8639 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2760.0,1.00%,F,T)

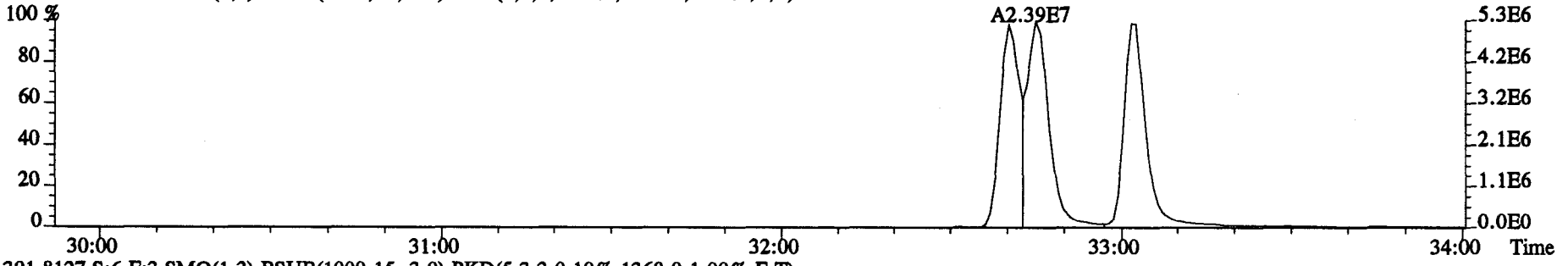


385.8610 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,60.0,1.00%,F,T)

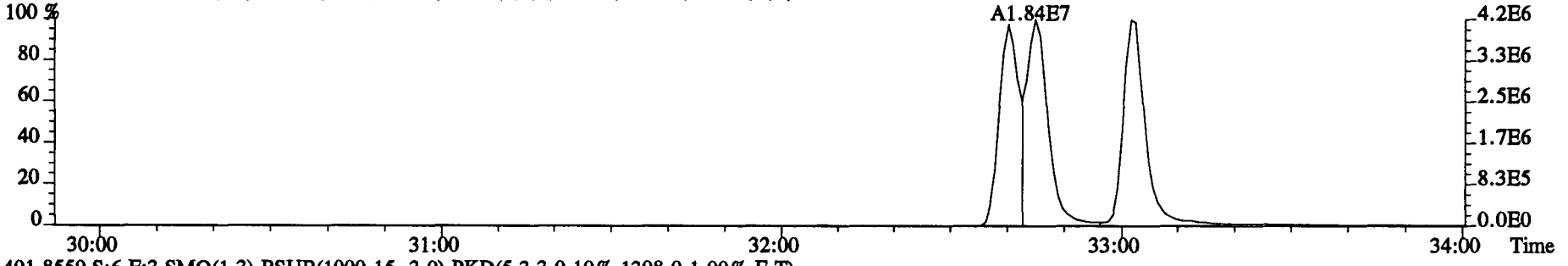


File:17FE104D5 #1-314 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN

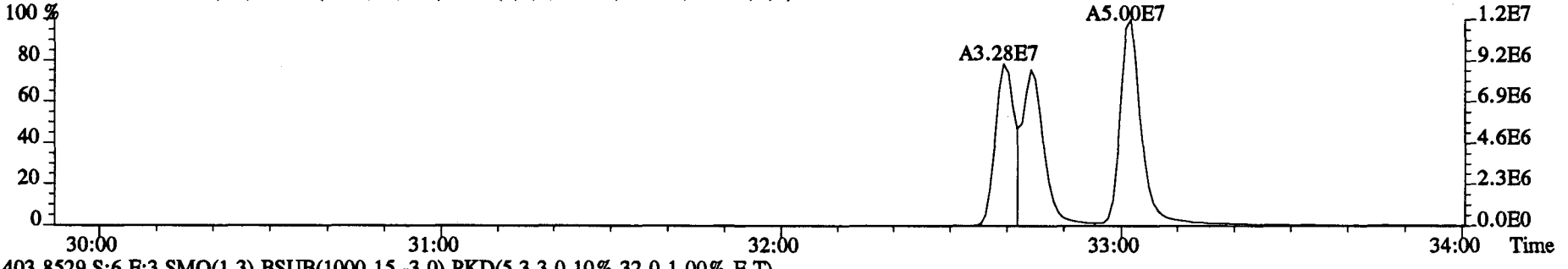
389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1436.0,1.00%,F,T)



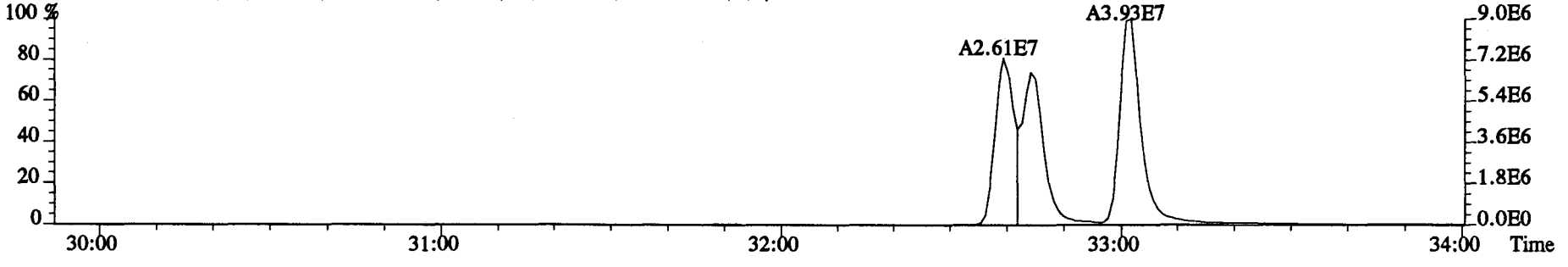
391.8127 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1368.0,1.00%,F,T)



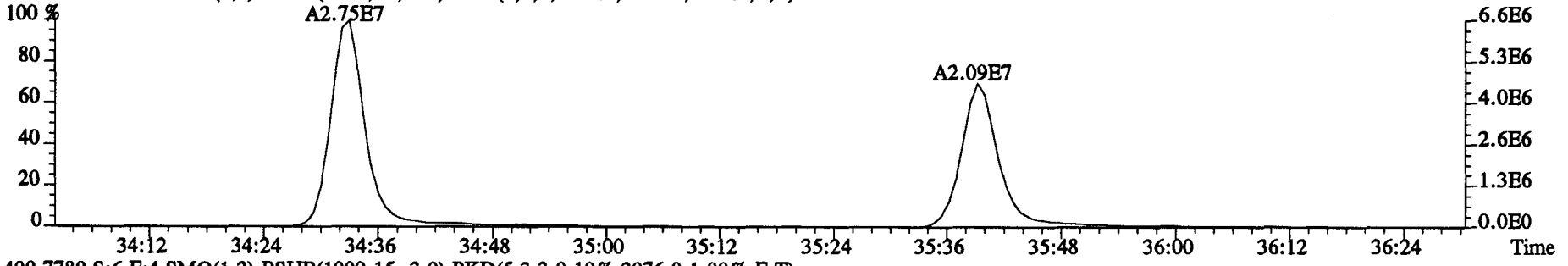
401.8559 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1308.0,1.00%,F,T)



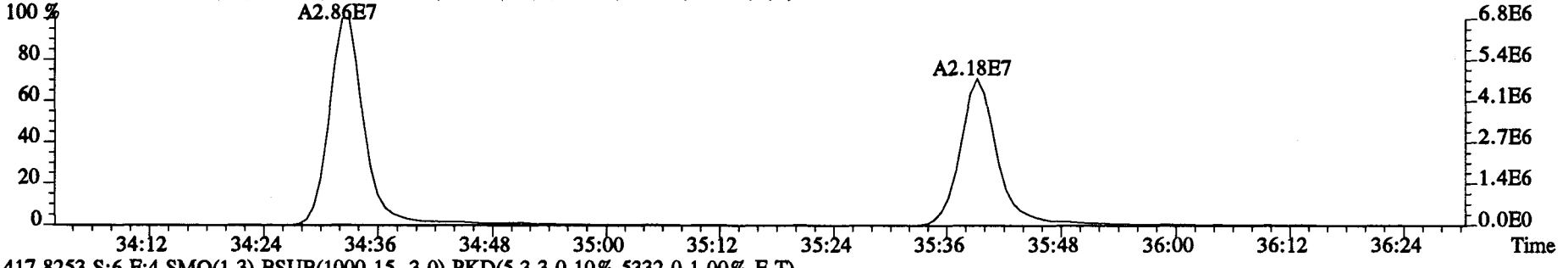
403.8529 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32.0,1.00%,F,T)



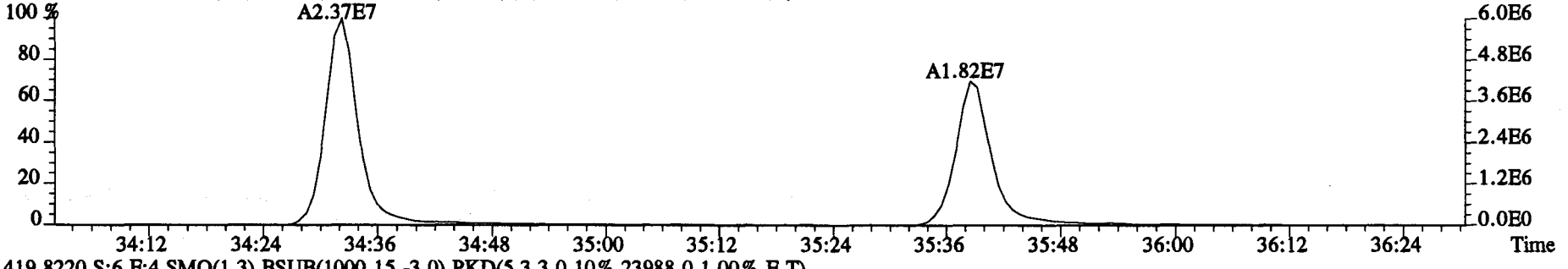
File:17FE104D5 #1-198 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN
407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6472.0,1.00%,F,T)



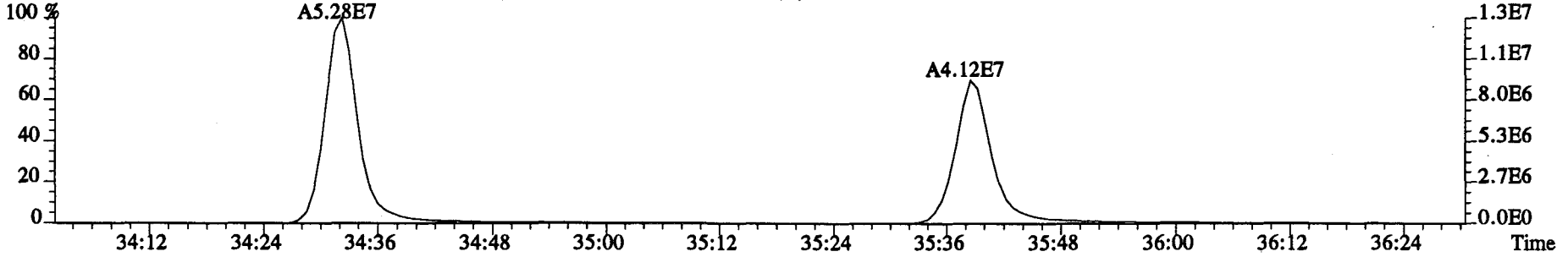
409.7789 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2976.0,1.00%,F,T)



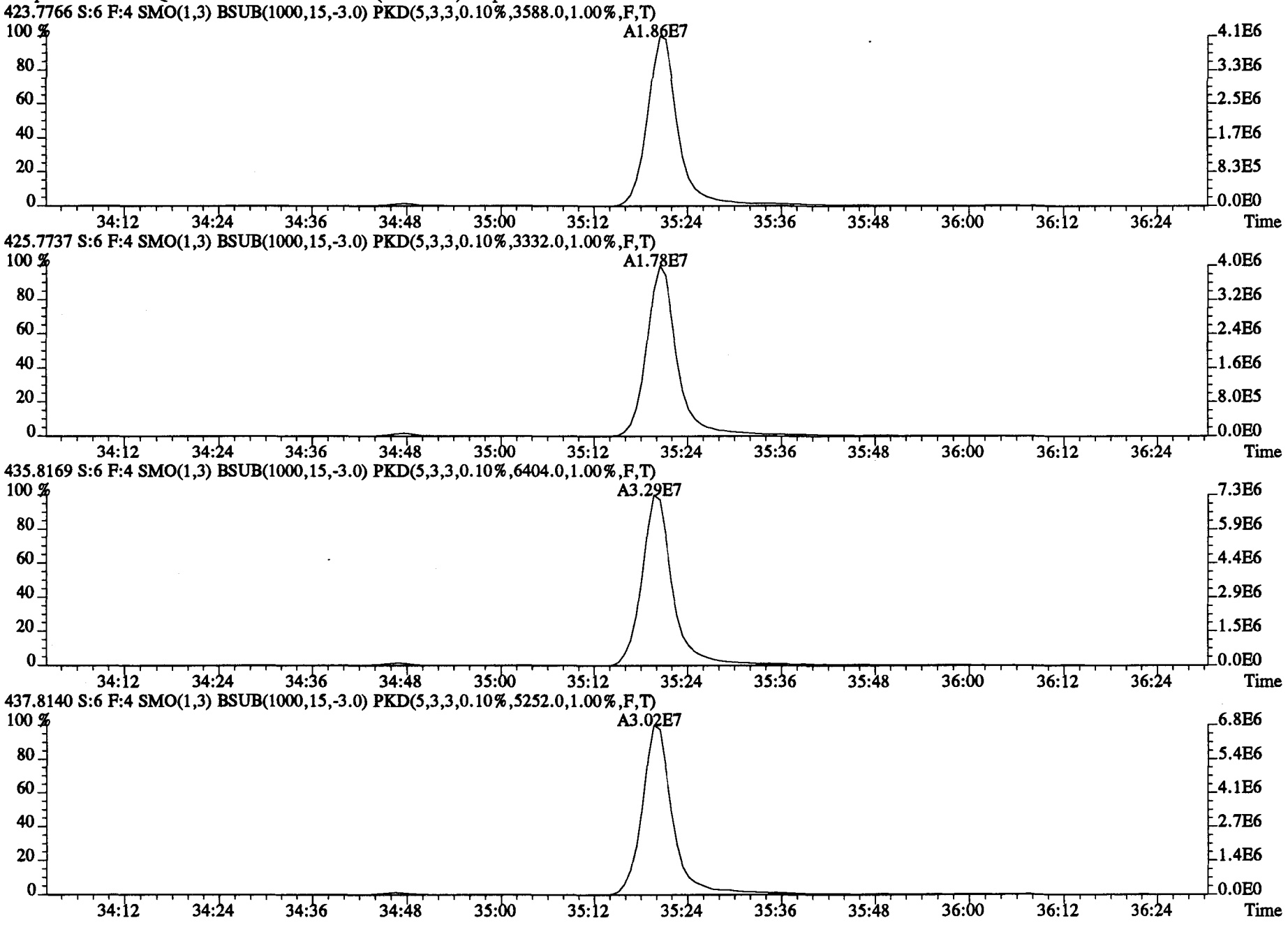
417.8253 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5332.0,1.00%,F,T)



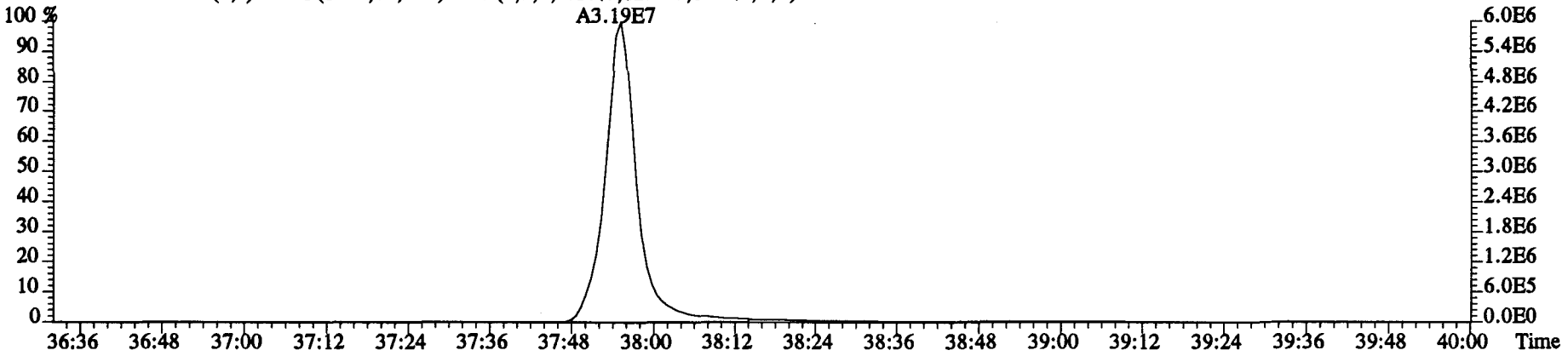
419.8220 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23988.0,1.00%,F,T)



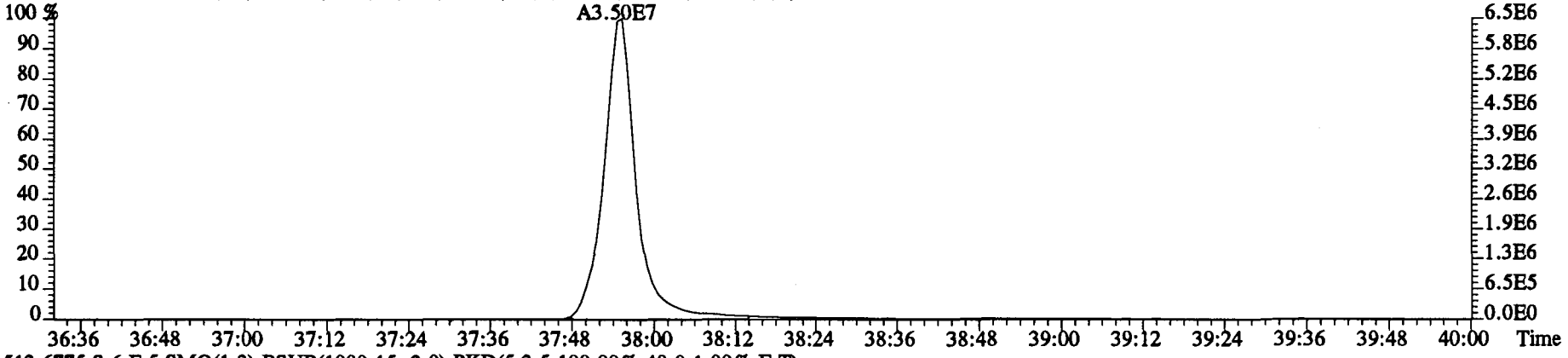
File:17FE104D5 #1-198 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN



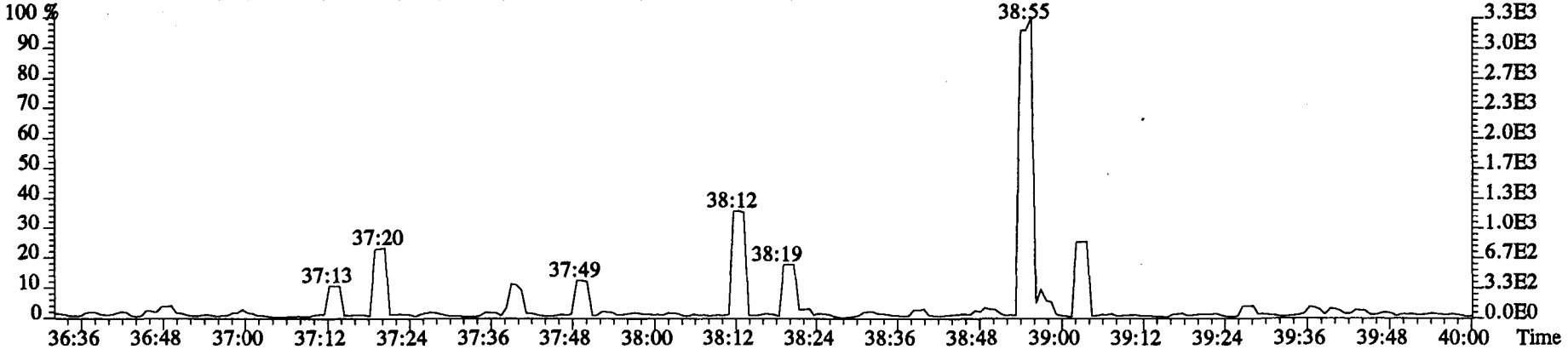
File:17FE104D5 #1-281 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN
441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1296.0,1.00%,F,T)



443.7399 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2876.0,1.00%,F,T)

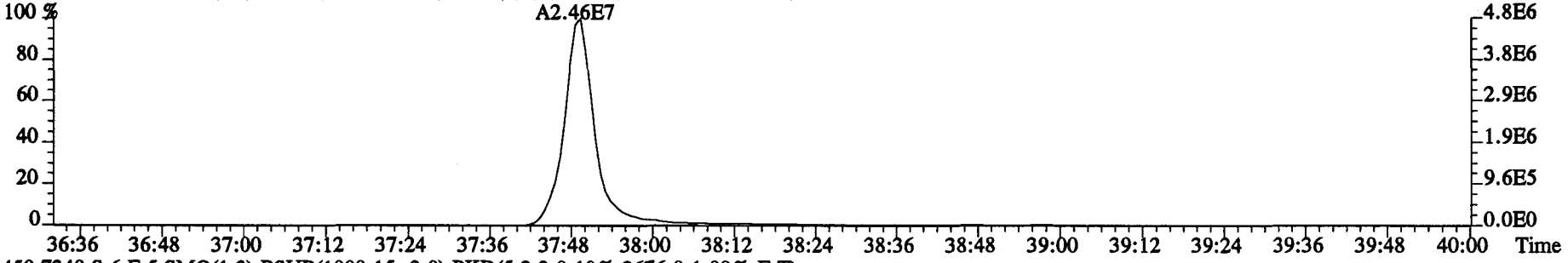


513.6775 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,48.0,1.00%,F,T)

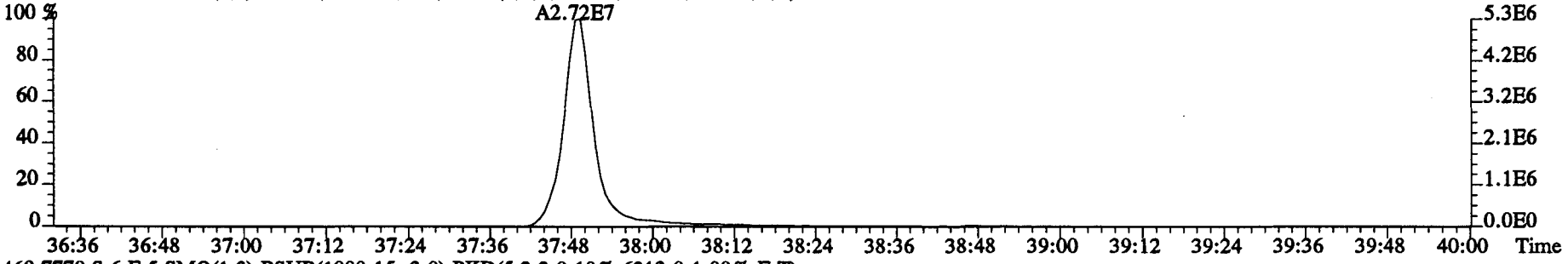


File:17FE104D5 #1-281 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN

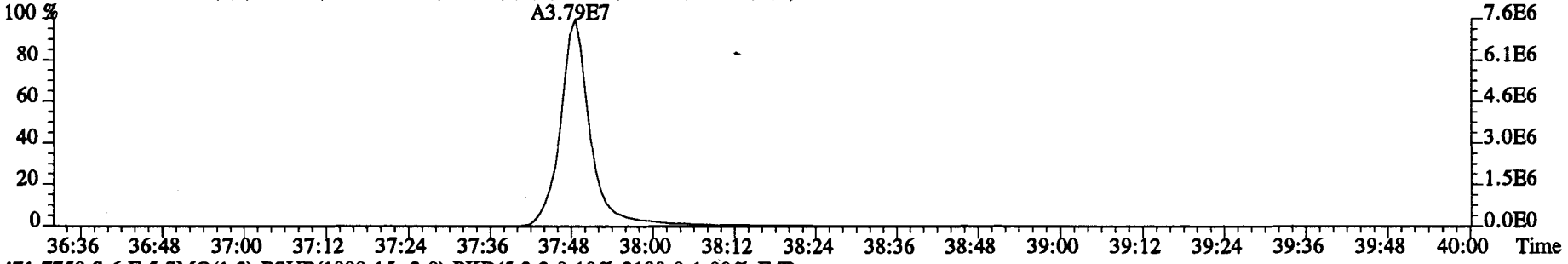
457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1832.0,1.00%,F,T)



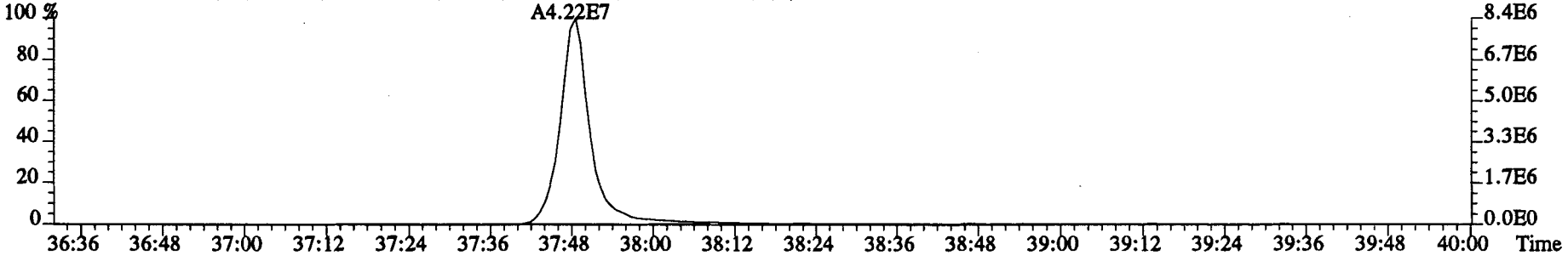
459.7348 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2676.0,1.00%,F,T)



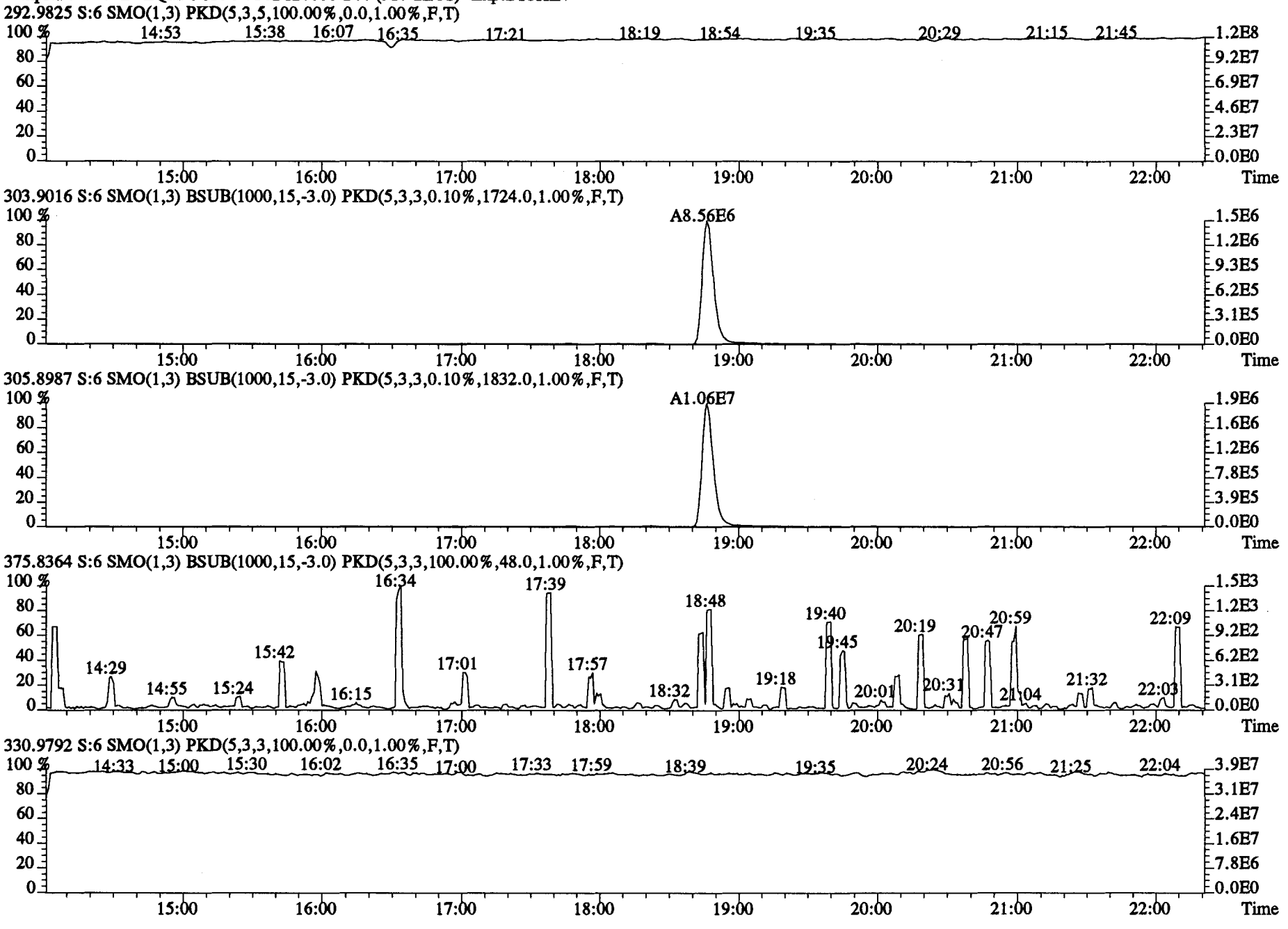
469.7779 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6212.0,1.00%,F,T)



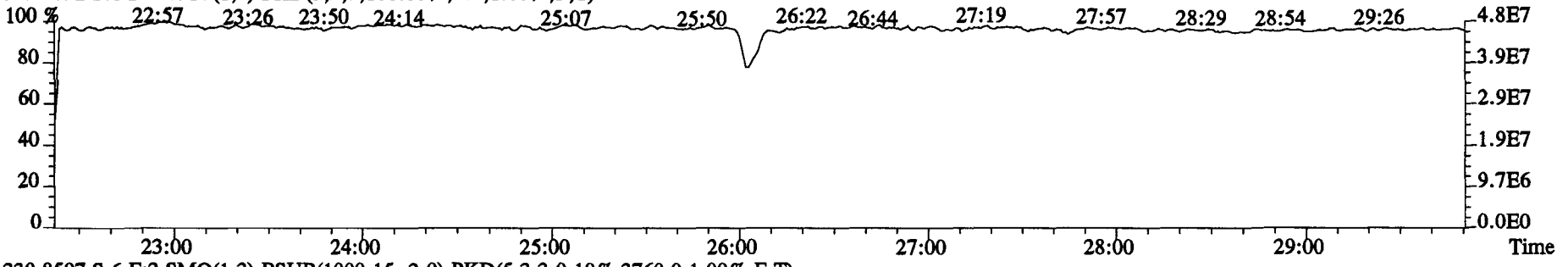
471.7750 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3188.0,1.00%,F,T)



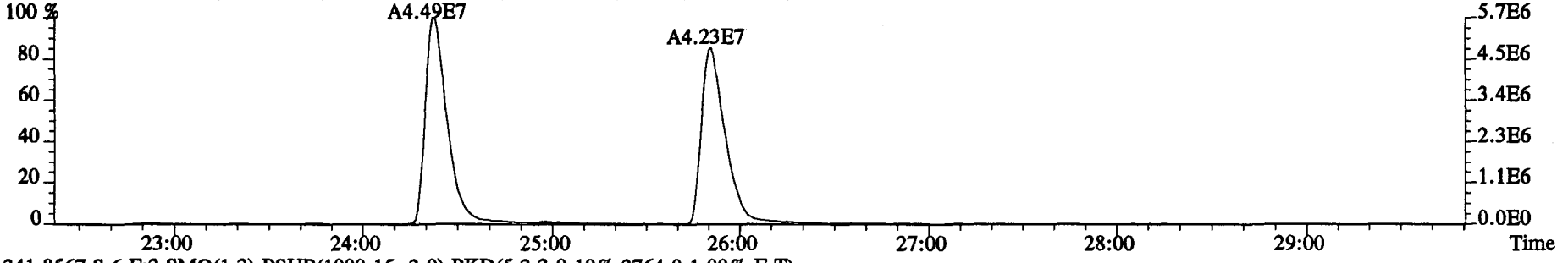
File:17FE104D5 #1-578 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN



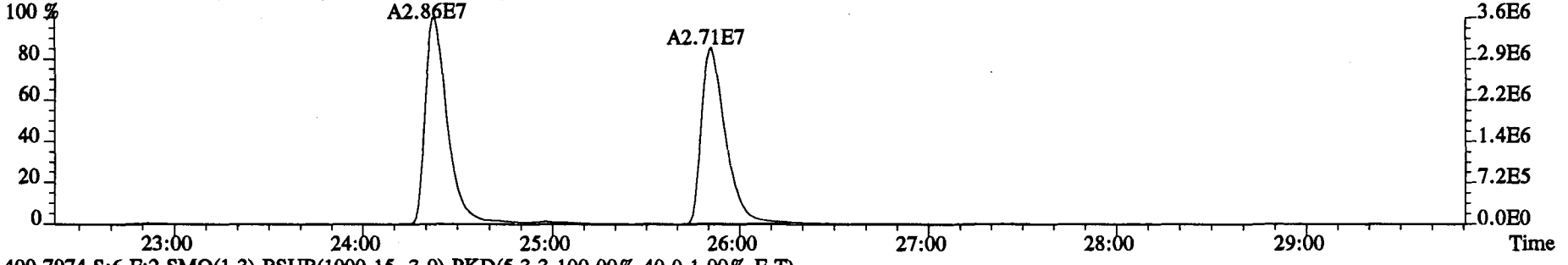
File:17FE104D5 #1-596 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN
342.9792 S:6 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



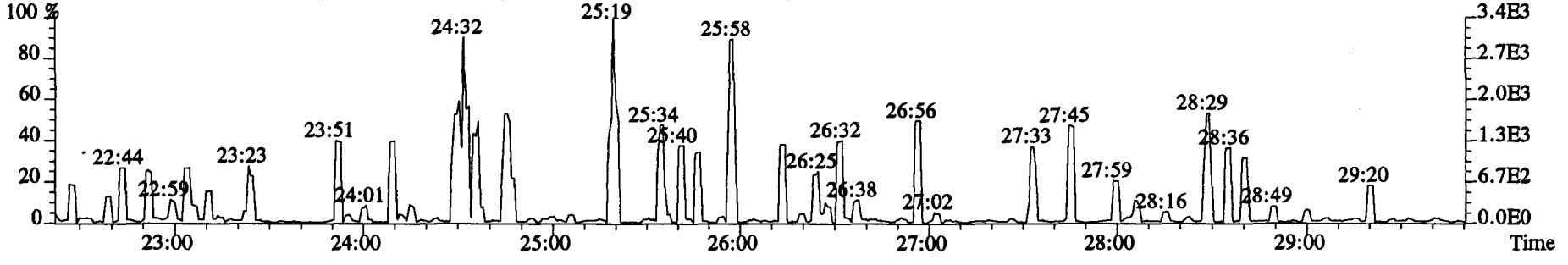
339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3760.0,1.00%,F,T)



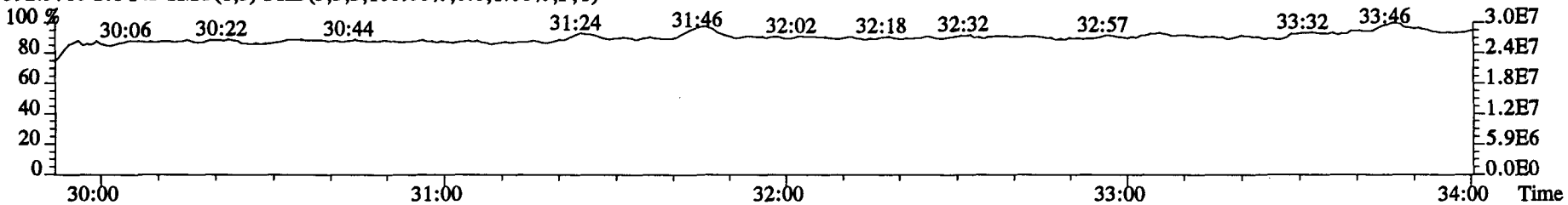
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2764.0,1.00%,F,T)



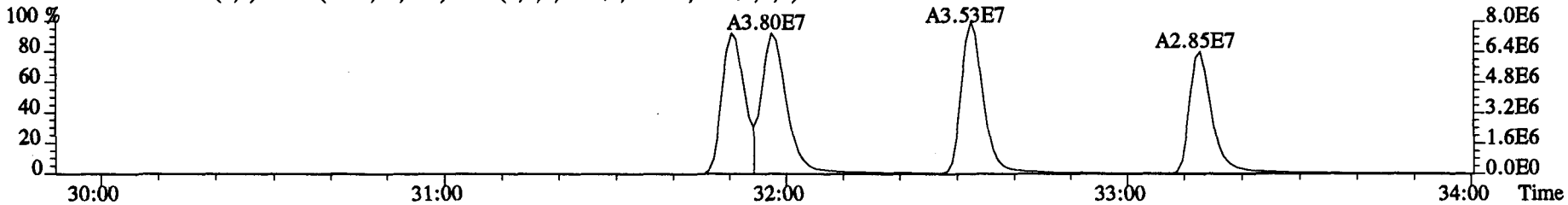
409.7974 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,40.0,1.00%,F,T)



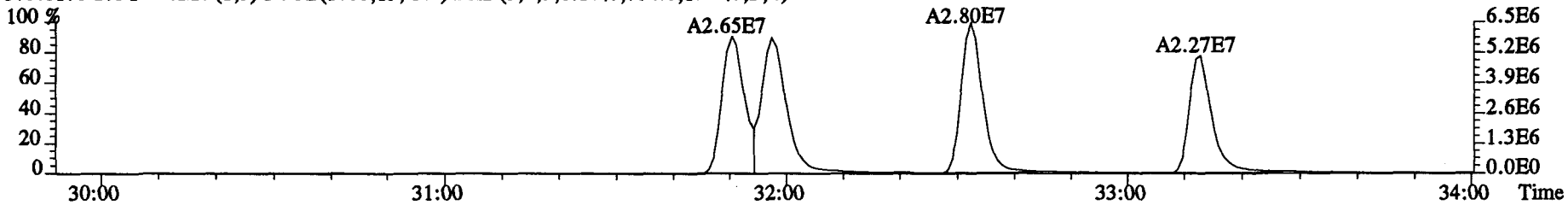
File:17FE104D5 #1-314 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN
392.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



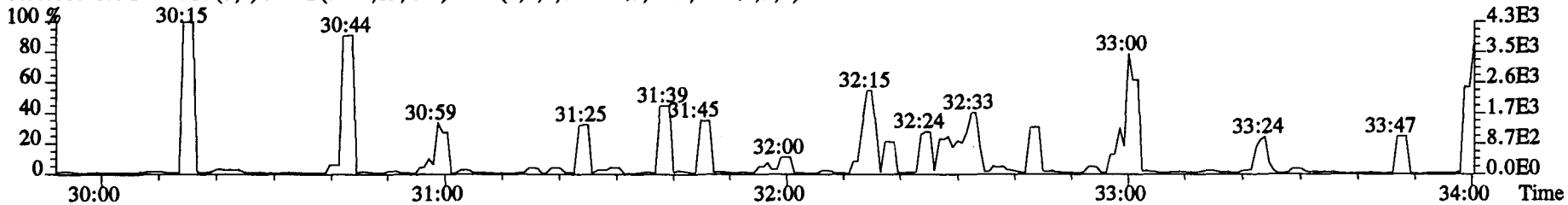
373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8056.0,1.00%,F,T)



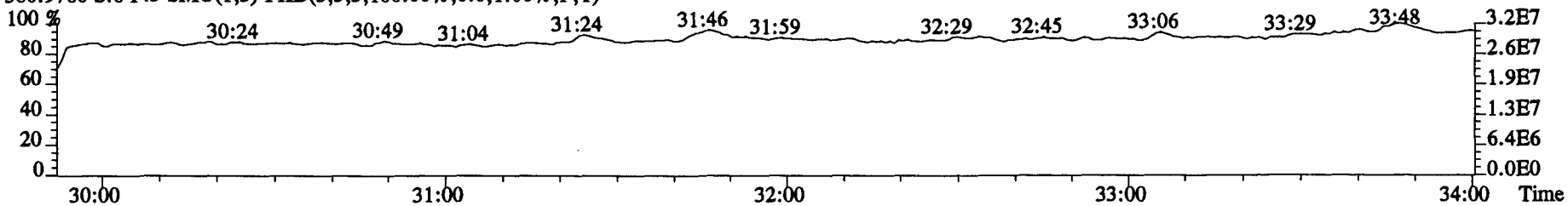
375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,784.0,1.00%,F,T)



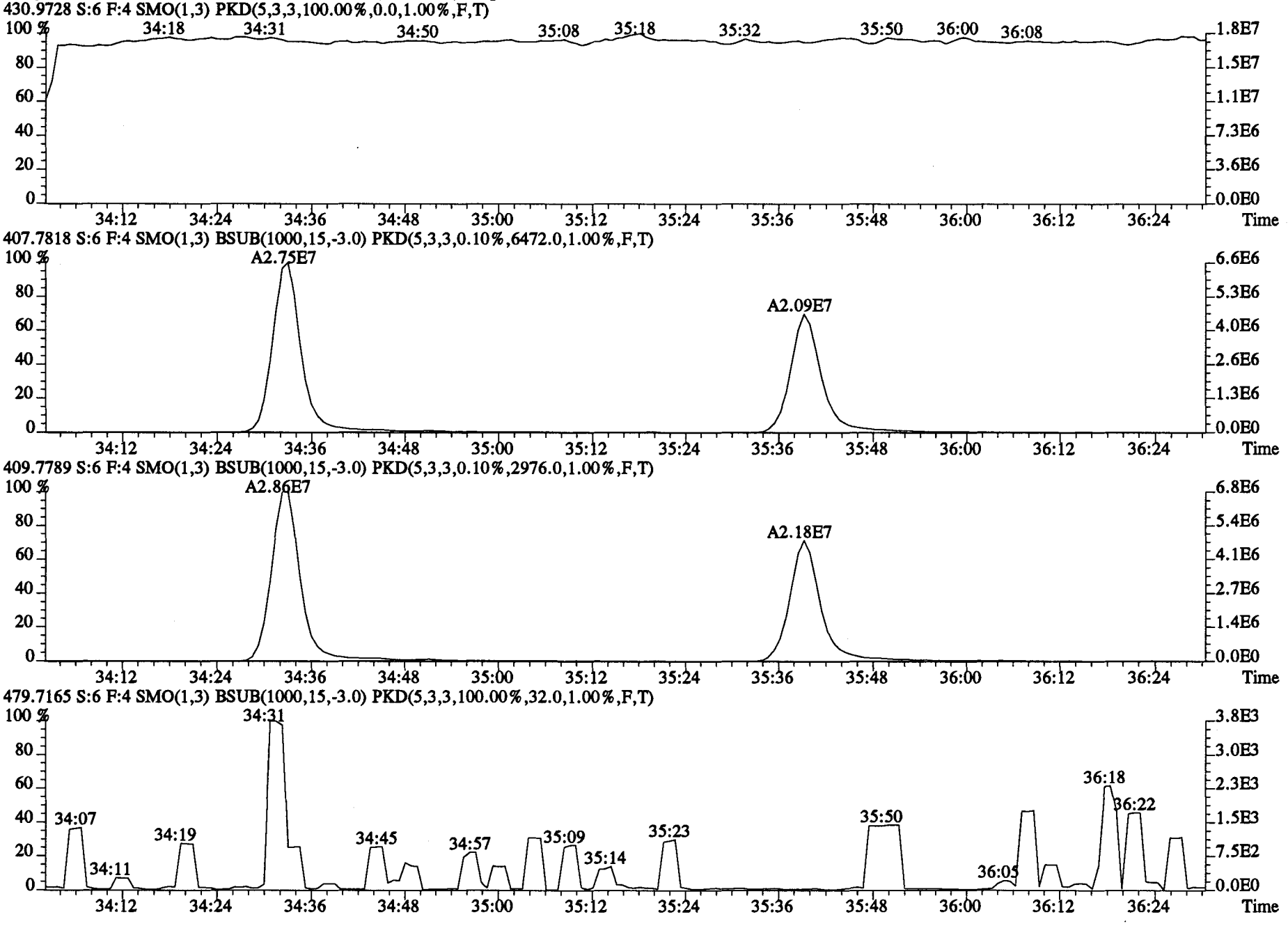
445.7555 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,48.0,1.00%,F,T)



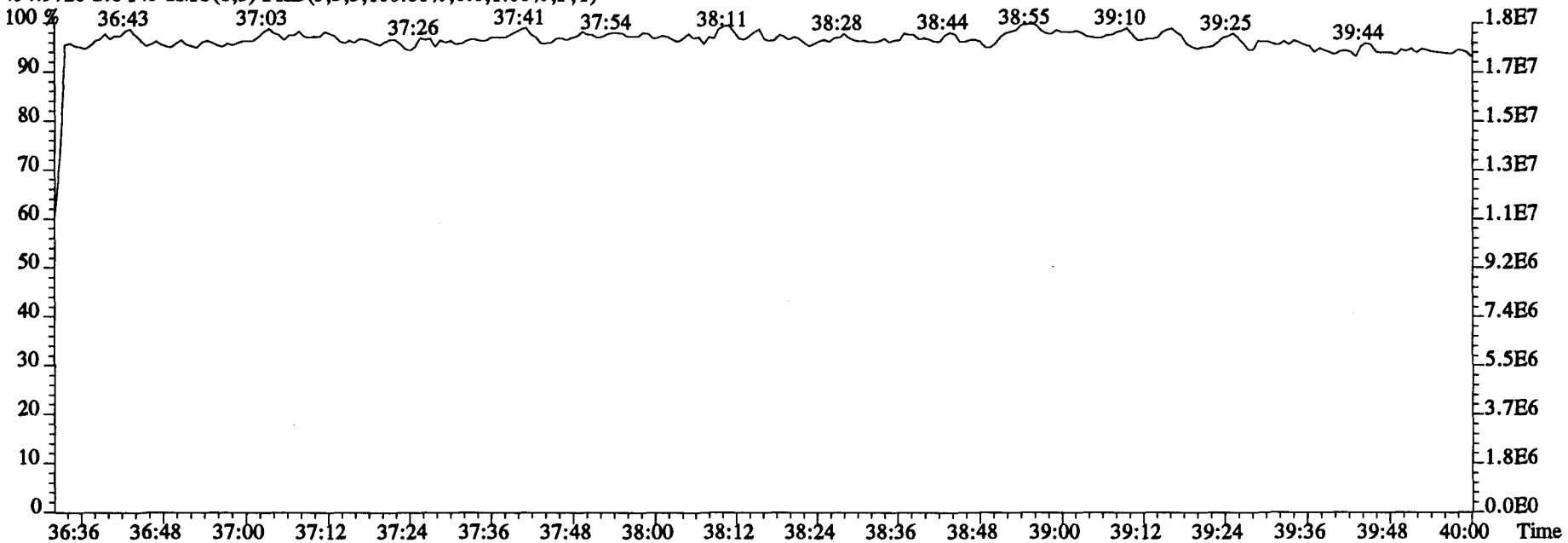
380.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



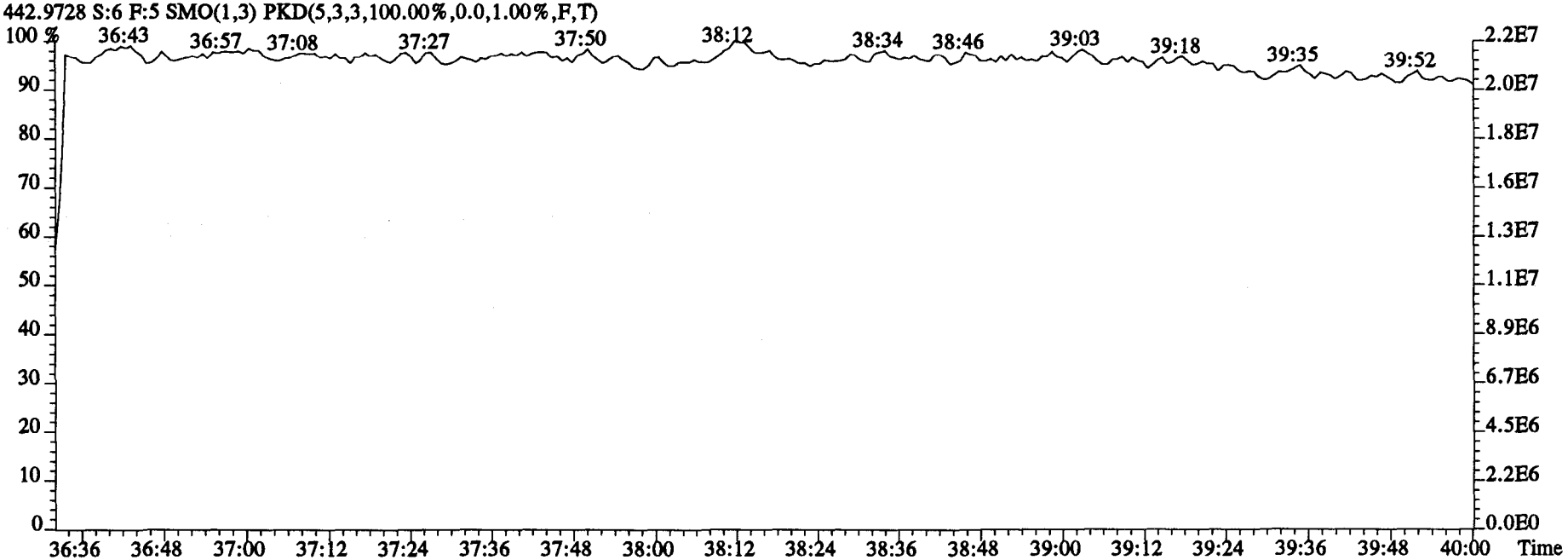
File:17FE104D5 #1-198 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN



File:17FE104D5 #1-281 Acq:17-FEB-2010 13:13:57 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:LVLQM-1-ACC :G0B120000-244 (517-2LCS) Exp:DIOXIN
454.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: LT76V-1-AA Sample text: LT76V-1-AA :G0B040517-2
Run #11 Filename: 17FE104D5 S: 7 I: 1 Results: 17fe104d58290
Acquired: 17-FEB-10 13:57:59 Processed: 17-FEB-10 15:33:19
Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5
Factor 1:1600.000 Factor 2:20.000 Sample size: 1.05 L

AK 2/23/10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	151250600	0.80	y	19:17	-	86.181	-	-	n
13C-2,3,7,8-TCDF	207304200	0.79	y	18:45	1.57	1655.592	0.842	87.3	n
2,3,7,8-TCDF	37819	0.89	n	18:46	1.05	~~0.329~~	0.393	-	n
Total TCDF	129608	0.27	n	18:23	1.05	1~~.127~~	0.393	-	n
13C-2,3,7,8-TCDD	127941100	0.79	y	19:31	1.00	1603.241	1.846	84.5	n
2,3,7,8-TCDD	128579	0.43	n	19:33	1.05	1.809 JQ	0.792	-	n
Total TCDD	135647	0.43	n	19:33	1.05	~~1.908~~ 1.809	0.792	-	n
37Cl-2,3,7,8-TCDD	136230000	1.00	y	19:32	2.42	707.282	0.008	93.2	n
13C-1,2,3,7,8-PeCDF	145421900	1.61	y	24:21	1.34	1364.511	1.540	71.9	n
1,2,3,7,8-PeCDF	23527	0.73	n	24:23	1.07	~~0.287~~	0.584	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	1.04	*	0.603	-	n
Total F2 PeCDF	103646	0.73	n	24:23	1.05	1.280	~~0.594~~ 0.603	-	n
Total F1 PeCDF	76436	0.82	n	14:16	1.05	0~~.947~~	0~~.463~~	-	n
13C-1,2,3,7,8-PeCDD	90883100	1.57	y	26:37	0.81	1403.653	0.863	74.0	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	1.04	*	1.759	-	n
Total PeCDD	177170	0.24	n	24:08	1.04	~~3.563~~ 1.79	1.759	-	n
13C-1,2,3,7,8,9-HxCDD	109616300	1.29	y	33:01	-	63.735	-	-	n
13C-1,2,3,4,7,8-HxCDF	102640300	0.53	y	31:49	1.01	1750.769	0.499	92.3	n
1,2,3,4,7,8-HxCDF	33835	0.91	n	31:50	1.24	0.505 JQ	0.419	-	n
1,2,3,6,7,8-HxCDF	39187	1.11	y	31:57	1.49	0.486 J	0.349	-	n
2,3,4,6,7,8-HxCDF	39016	0.89	n	32:33	1.34	0.538 JQ	0.388	-	n
1,2,3,7,8,9-HxCDF	17783	0.44	n	33:13	1.22	0~~.269~~	0.426	-	n
Total HxCDF	157388	0.92	n	30:39	1.32	2~~.184~~ 1.53	0.393	-	n
13C-1,2,3,6,7,8-HxCDD	85639300	1.30	y	32:44	0.88	1676.788	0.897	88.4	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	0.90	*	1.327	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.19	*	1.007	-	n
1,2,3,7,8,9-HxCDD	21860	0.38	n	33:02	1.16	~~0.418~~	1.035	-	n
Total HxCDD	76458	0.38	n	33:02	1.08	~~1.535~~	~~1.106~~ 1.327	-	n
13C-1,2,3,4,6,7,8-HpCDF	99599600	0.45	y	34:31	0.94	1824.367	10.261	96.2	n
1,2,3,4,6,7,8-HpCDF	90181	1.06	y	34:33	1.30	1.322 J	0.583	-	n
1,2,3,4,7,8,9-HpCDF	36560	0.80	n	35:38	1.10	~~0.632~~	0.687	-	n
Total HpCDF	160210	1.06	y	34:33	1.20	~~2.486~~ 1.95	0.631	-	n
13C-1,2,3,4,6,7,8-HpCDD	86125300	1.09	y	35:20	0.79	1879.715	4.334	99.1	n
1,2,3,4,6,7,8-HpCDD	84372	1.08	y	35:21	1.06	1.760 J	1.003	-	n
Total HpCDD	160405	8.08	n	34:31	1.06	3.346 3.146	1.003	-	n
13C-OCDD	113642400	0.89	y	37:48	0.58	3379.545	4.869	89.1	n

OCDF	100560	1.00	y	37:55	1.56	2.155 J	0.478	-	n
OCDD	266301	1.07	n	37:49	1.19	7.452 JQ	0.706	-	n

Run Text: LT76V-1-AA Sample text: LT76V-1-AA :G0B040517-2

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:6
Run: 11 File: 17FE104D5 S:7 Acq:17-FEB-10 13:57:59
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1.19 of which	0.35 named and	0.84 unnamed
Conc:	1.13 of which	0.33 named and	0.80 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	18:23	0.27	n	0.06	2815	1.0	n	n
						10400	1.8	n	n
2,3,7,8-TCDF	2	18:46	0.89	n	0.33	19030	2.7	n	n
						21367	2.5	n	n
	3	19:16	3.06	n	0.16	31295	7.1	y	n
						10225	2.5	n	n
	4	19:42	0.40	n	0.24	11892	2.9	n	n
						29574	3.7	y	n
	5	21:05	0.43	n	0.22	11030	3.0	y	n
						25481	4.1	y	n
	6	21:10	0.41	n	0.13	6321	1.4	n	n
						15379	2.1	n	n

Run Text: LT76V-1-AA Sample text: LT76V-1-AA :G0B040517-2

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:2
Run: 11 File: 17FE104D5 S:7 Acq:17-FEB-10 13:57:59
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2.01 of which	1.91 named and	0.10 unnamed
Conc:	1.91 of which	1.81 named and	0.10 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
2,3,7,8-TCDD	1	19:33	0.43	n	1.81	55936	8.2	y	n
						131020	10.3	y	n
	2	19:51	3.43	n	0.10	13687	2.3	n	n
						3993	0.7	n	n

Run Text: LT76V-1-AA Sample text: LT76V-1-AA :G0B040517-2

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:8
Run: 11 File: 17FE104D5 S:7 Acq:17-FEB-10 13:57:59
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1.35 of which	0.30 named and	1.05 unnamed
Conc:	1.28 of which	0.29 named and	0.99 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,7,8-PeCDF	1	24:23	0.73	n	0.29	14301	5.4	y	n
						19679	1.8	n	n
	2	24:27	0.59	n	0.24	11686	6.4	y	n
						19679	1.8	n	n
	3	24:30	1.00	n	0.13	6424	2.5	n	n
						6437	1.4	n	n
	4	24:47	0.55	n	0.06	2964	2.0	n	n
						5400	1.5	n	n
	5	25:01	1.31	n	0.08	3704	2.1	n	n
						2818	0.8	n	n
	6	25:54	1.59	y	0.28	13782	4.8	y	n
						8654	1.7	n	n
	7	25:59	0.08	n	0.09	4441	1.9	n	n
						53193	6.4	y	n
	8	26:04	0.11	n	0.12	5844	2.9	n	n
						53193	6.4	y	n

Run Text: LT76V-1-AA Sample text: LT76V-1-AA :G0B040517-2

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:8
Run: 11 File: 17FE104D5 S:7 Acq:17-FEB-10 13:57:59
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1.00 of which	* named and	1.00	unnamed	
Conc:	0.95 of which	* named and	0.95	unnamed	

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:16	0.82	n	0.13	6520	2.7	n	n
						7961	2.5	n	n
	2	14:28	1.32	y	0.14	6197	3.6	y	n
						4703	1.2	n	n
	3	16:28	0.21	n	0.17	8385	2.4	n	n
						40836	9.6	y	n
	4	17:53	0.78	n	0.08	3939	1.8	n	n
						5020	1.6	n	n
	5	20:23	0.35	n	0.27	13112	4.4	y	n
						37805	7.5	y	n
	6	20:39	0.16	n	0.06	2986	1.8	n	n
						18297	4.0	y	n
	7	20:47	0.10	n	0.04	1739	1.0	n	n
						18297	4.0	y	n
	8	22:10	0.78	n	0.06	3156	1.7	n	n
						4060	1.5	n	n

Run Text: LT76V-1-AA Sample text: LT76V-1-AA :G0B040517-2

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:4
Run: 11 File: 17FE104D5 S:7 Acq:17-FEB-10 13:57:59
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	3.76 of which	* named and	3.76	unnamed	
Conc:	3.56 of which	* named and	3.56	unnamed	

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	24:08	0.24	n	0.41	12327	1.7	n	n
						51925	5.3	y	n
	2	24:41	1.80	n	1.79	62882	4.4	y	n
						34889	4.1	y	n
	3	25:31	1.28	n	0.54	16219	1.3	n	n

					12680	1.8	n	n
	4	26:01	3.87	n	0.83	62538	5.0	y	n
						16172	2.3	n	n

Run Text: LT76V-1-AA Sample text: LT76V-1-AA :G0B040517-2

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:6
Run: 11 File: 17FE104D5 S:7 Acq:17-FEB-10 13:57:59
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2.30 of which	1.90 named and	0.41 unnamed
Conc:	2.18 of which	1.80 named and	0.39 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	30:39	0.92	n	0.30	11972	1.5	n	n
						13000	3.6	y	n
1,2,3,4,7,8-HxCDF	2	31:50	0.91	n	0.50	18730	2.7	n	n
						20632	6.9	y	n
1,2,3,6,7,8-HxCDF	3	31:57	1.11	y	0.49	20651	2.6	n	n
						18537	8.7	y	n
2,3,4,6,7,8-HxCDF	4	32:33	0.89	n	0.54	21598	2.7	n	n
						24404	7.0	y	n
	5	32:52	2.58	n	0.08	6843	1.7	n	n
						2652	1.3	n	n
1,2,3,7,8,9-HxCDF	6	33:13	0.44	n	0.27	9844	2.4	n	n
						22205	5.5	y	n

Run Text: LT76V-1-AA Sample text: LT76V-1-AA :G0B040517-2

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:4
Run: 11 File: 17FE104D5 S:7 Acq:17-FEB-10 13:57:59
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1.62 of which	0.44 named and	1.18	unnamed
Conc:	1.53 of which	0.42 named and	1.12	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,7,8,9-HxCDD	1	33:02	0.38	n	0.42	12101	1.4	n	n
						31806	2.6	n	n
	2	33:12	3.92	n	0.28	23953	3.0	n	n
						6111	1.1	n	n
	3	33:32	2.67	n	0.62	36188	3.9	y	n
						13575	1.3	n	n
	4	33:38	3.05	n	0.21	14286	1.6	n	n
						4688	0.9	n	n

Run Text: LT76V-1-AA Sample text: LT76V-1-AA :G0B040517-2

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:3
Run: 11 File: 17FE104D5 S:7 Acq:17-FEB-10 13:57:59
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2.62 of which	2.06 named and	0.56	unnamed
Conc:	2.49 of which	1.95 named and	0.53	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:33	1.06	y	1.32	46393	6.5	y	n
						43788	5.5	y	n
	2	34:50	1.01	y	0.53	16853	2.0	n	n
						16616	3.5	y	n
1,2,3,4,7,8,9-HpCDF	3	35:38	0.80	n	0.632	18638	2.8	n	n
						23362	3.3	y	n

Run Text: LT76V-1-AA Sample text: LT76V-1-AA :G0B040517-2

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:3
Run: 11 File: 17FE104D5 S:7 Acq:17-FEB-10 13:57:59
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

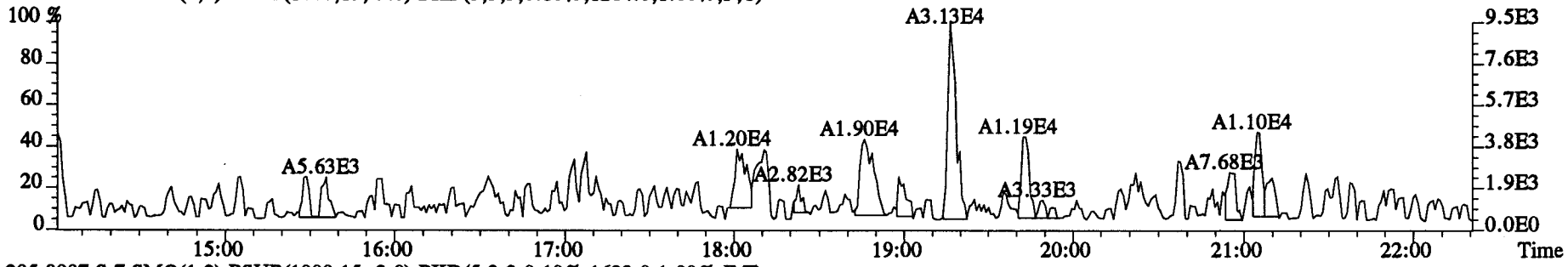
Amount:	3.53 of which	1.86 named and	1.67	unnamed

Conc: 3.35 of which 1.76 named and 1.59 unnamed

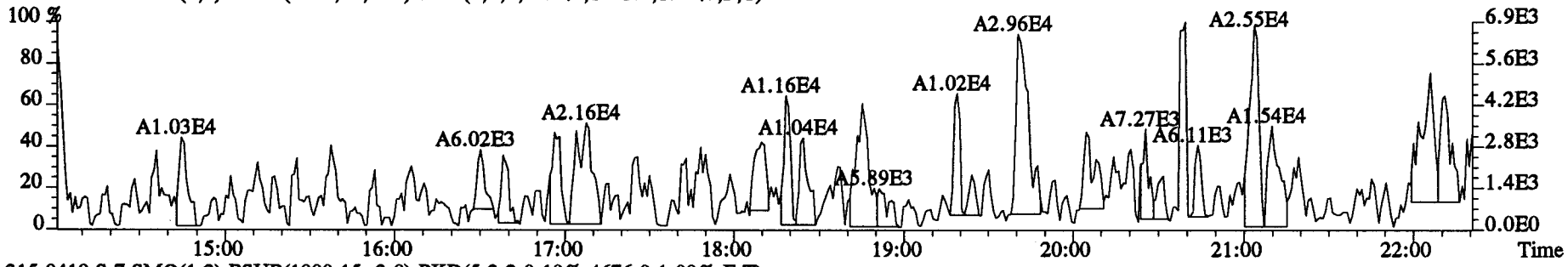
Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	34:31	8.08	n	0.20	38154	5.0	y	n
						4723	1.4	n	n
	2	34:47	0.95	y	1.38	32327	4.3	y	n
						34071	5.0	y	n
1,2,3,4,6,7,8-HpCDD	3	35:21	1.08	y	1.76	43889	4.8	y	n
						40483	6.1	y	n

File:17FE104D5 #1-578 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN

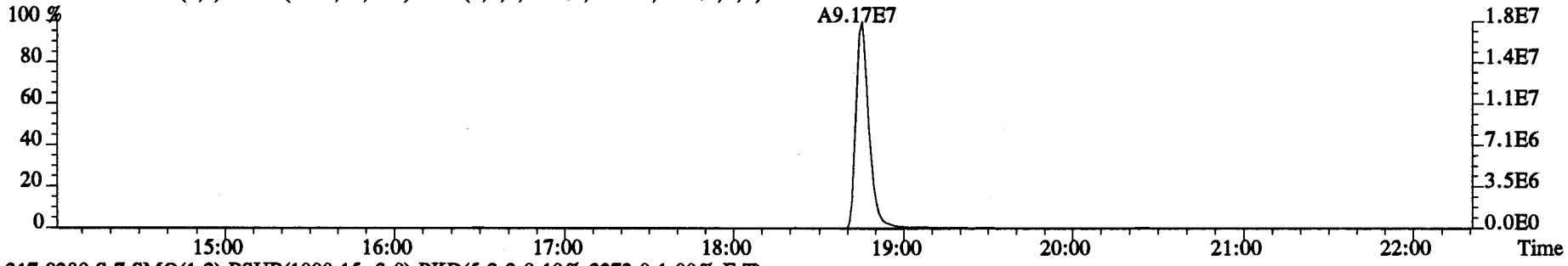
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1264.0,1.00%,F,T)



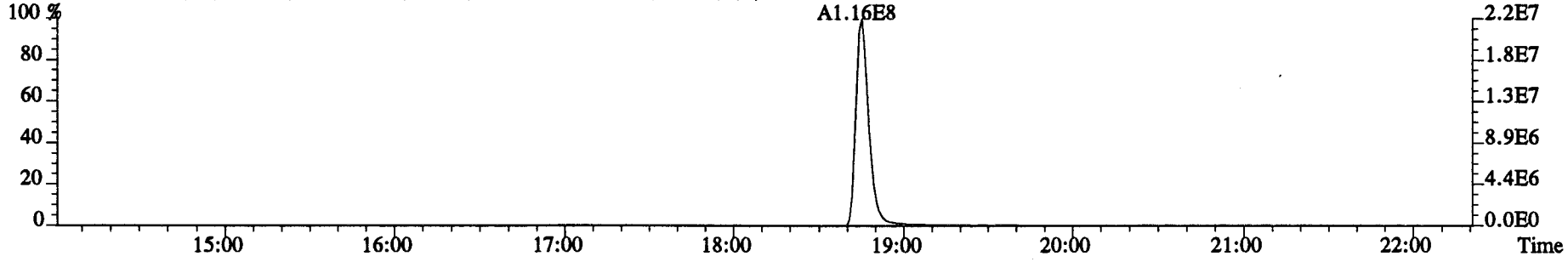
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1632.0,1.00%,F,T)



315.9419 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4676.0,1.00%,F,T)

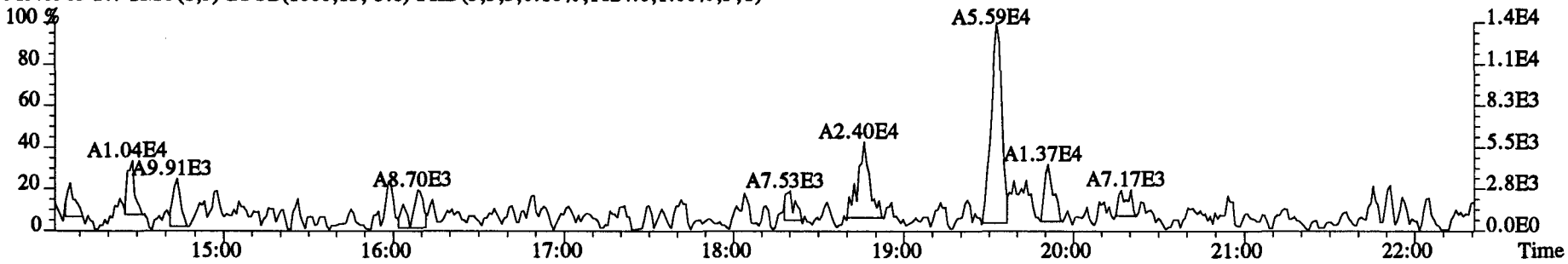


317.9389 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2372.0,1.00%,F,T)

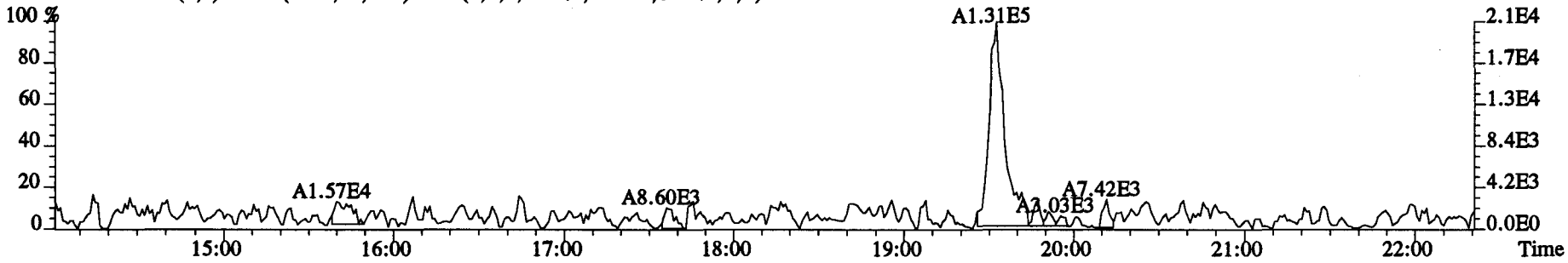


File:17FE104D5 #1-578 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN

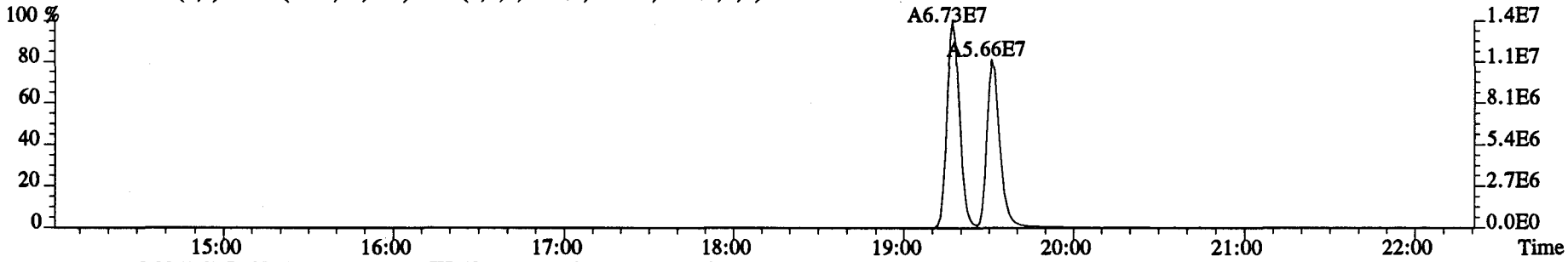
319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1624.0,1.00%,F,T)



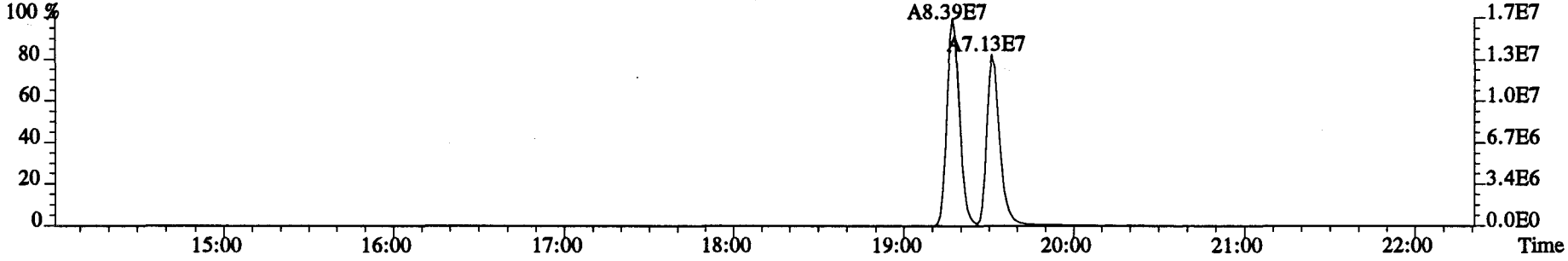
321.8936 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2008.0,1.00%,F,T)



331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7592.0,1.00%,F,T)

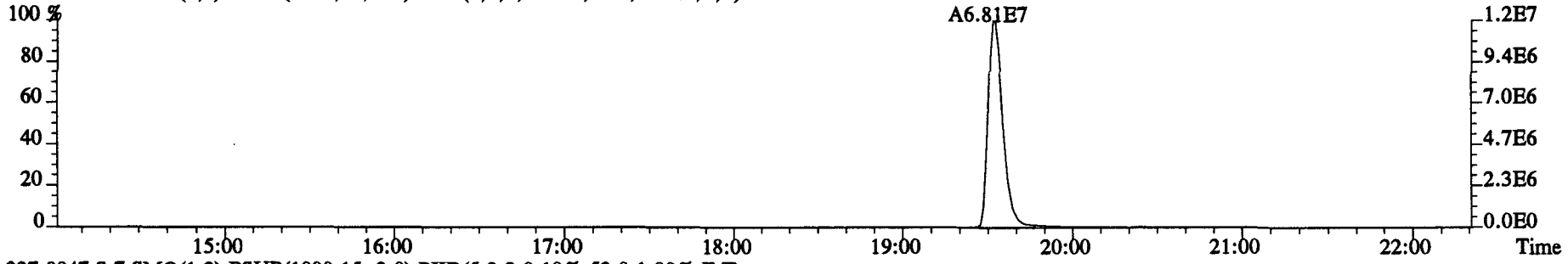


333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2264.0,1.00%,F,T)

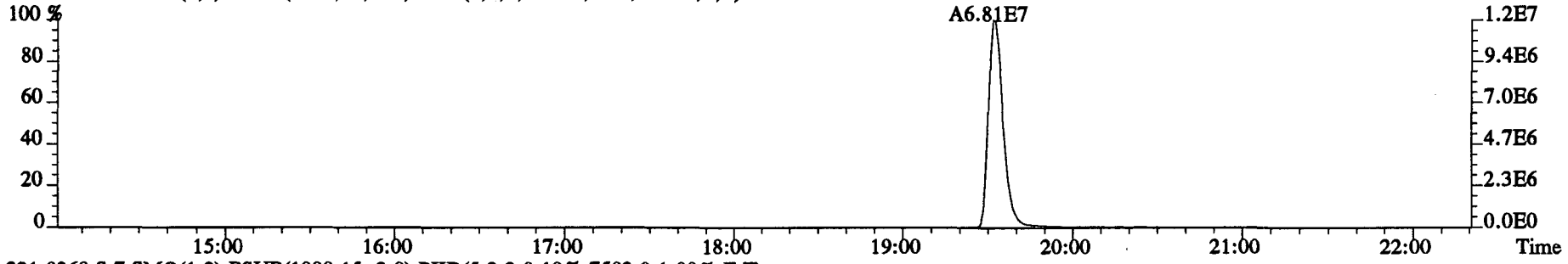


File:17FE104D5 #1-578 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN

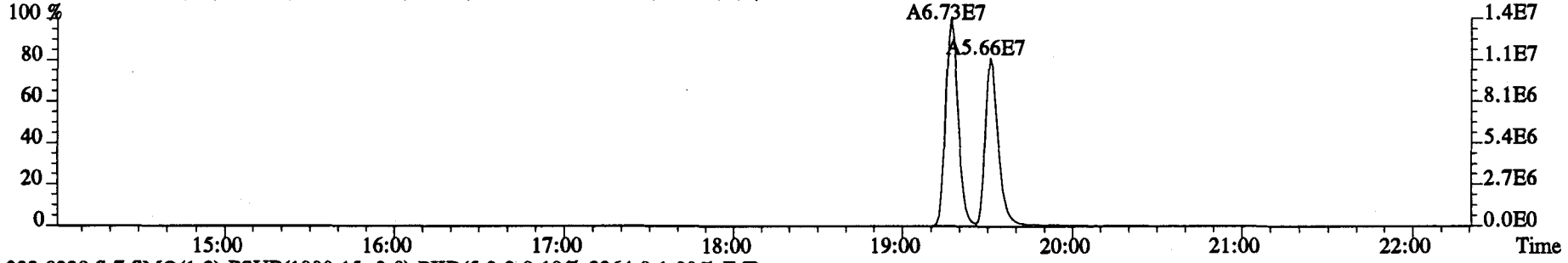
327.8847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52.0,1.00%,F,T)



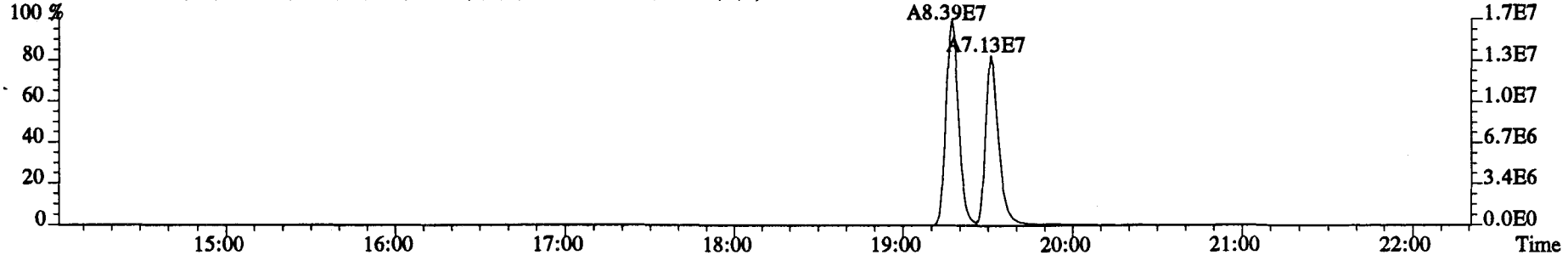
327.8847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52.0,1.00%,F,T)



331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7592.0,1.00%,F,T)

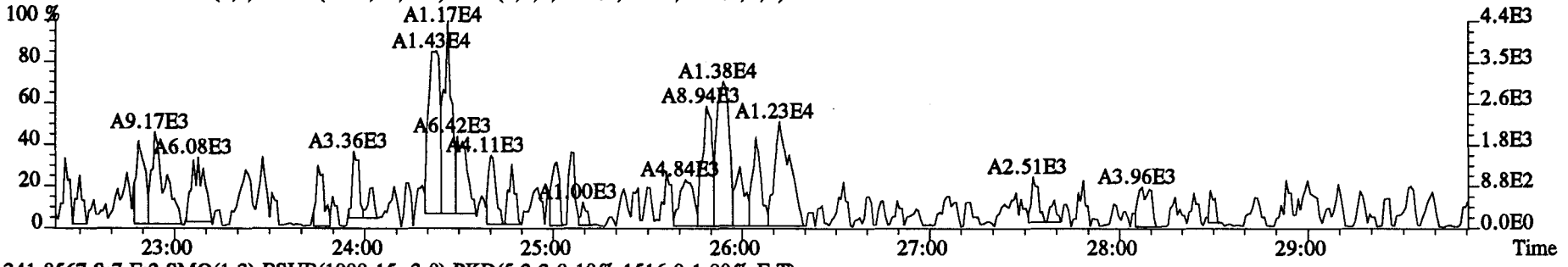


333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2264.0,1.00%,F,T)

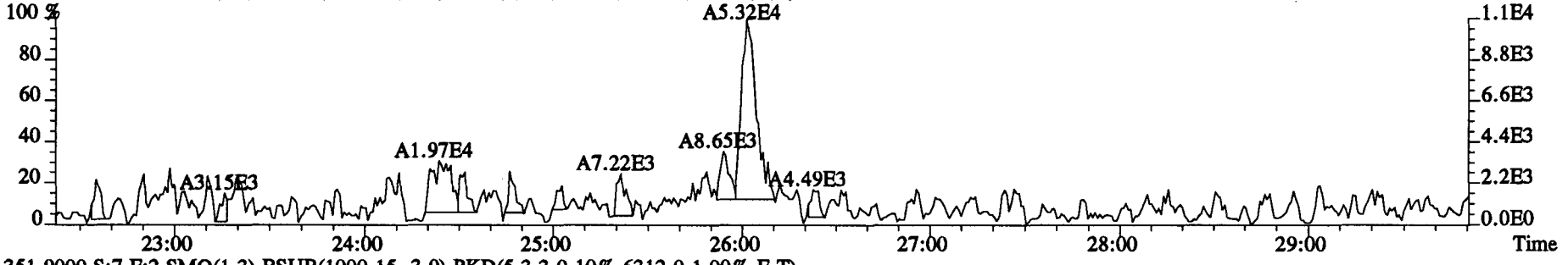


File:17FE104D5 #1-596 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN

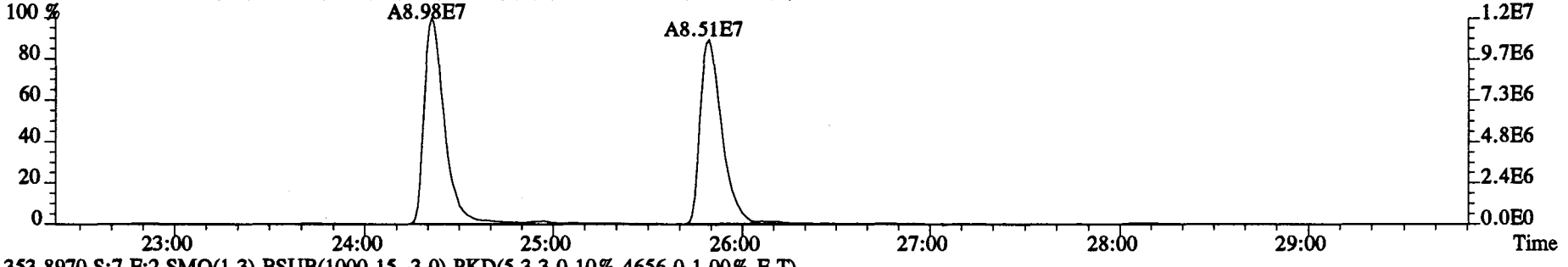
339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,644.0,1.00%,F,T)



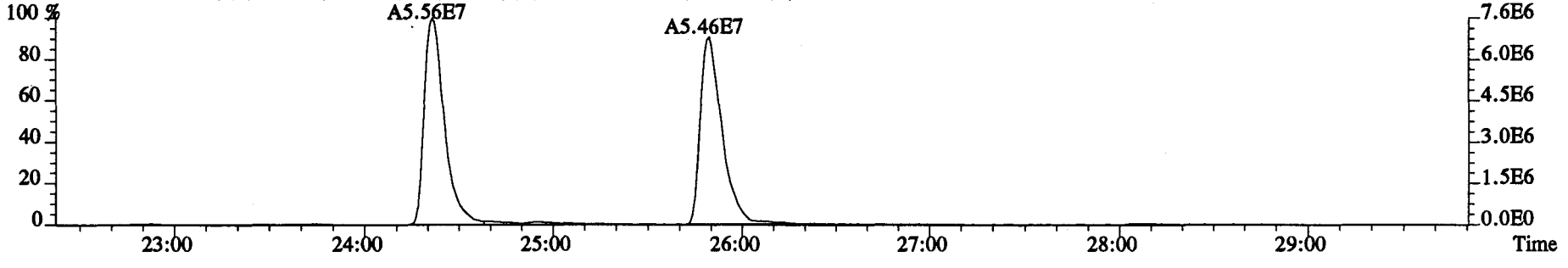
341.8567 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1516.0,1.00%,F,T)



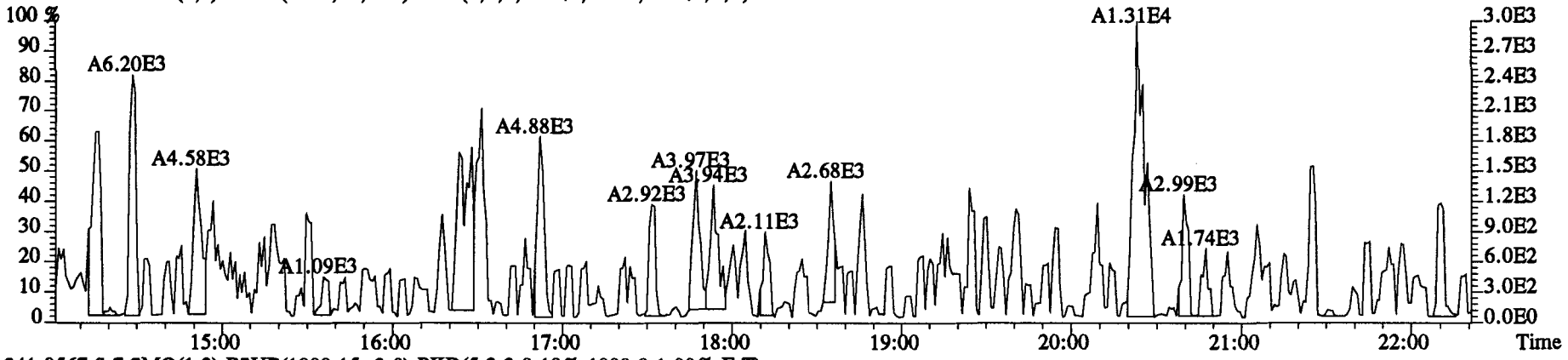
351.9000 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6312.0,1.00%,F,T)



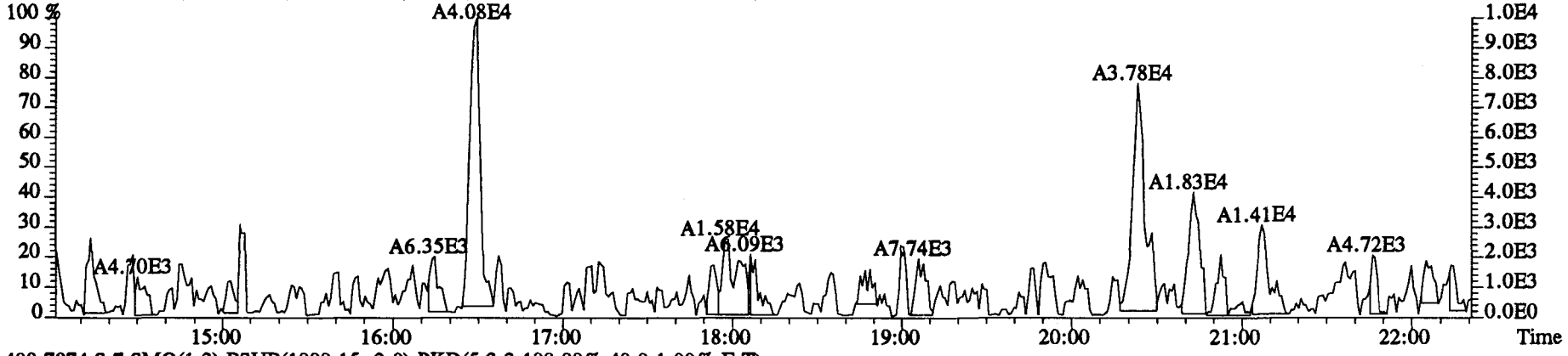
353.8970 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4656.0,1.00%,F,T)



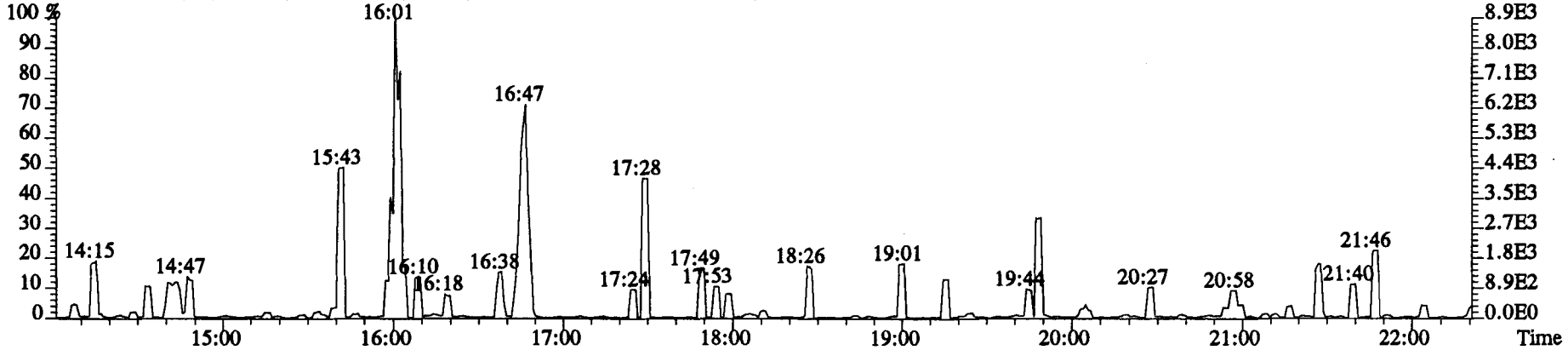
File:17FE104D5 #1-578 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN
339.8597 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,676.0,1.00%,F,T)



341.8567 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1008.0,1.00%,F,T)

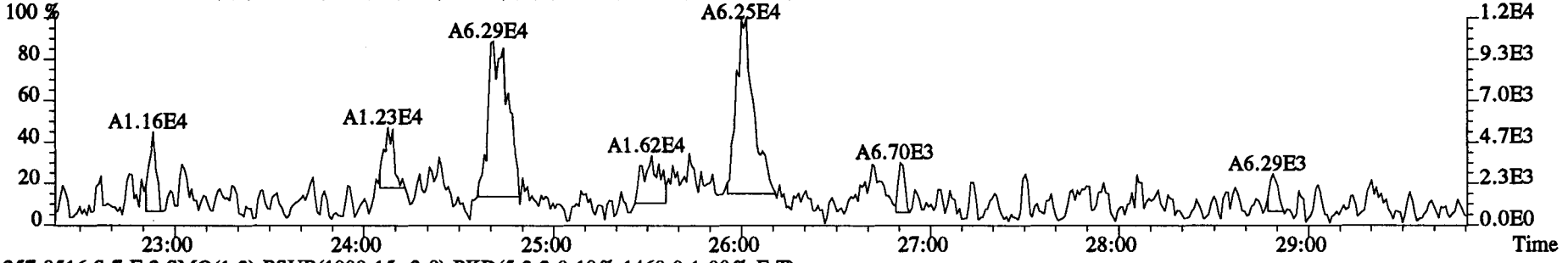


409.7974 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,40.0,1.00%,F,T)

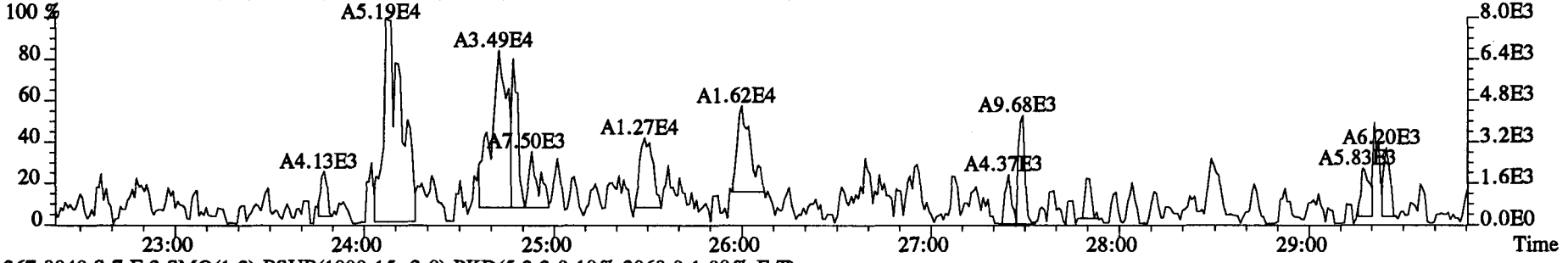


File:17FE104D5 #1-596 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN

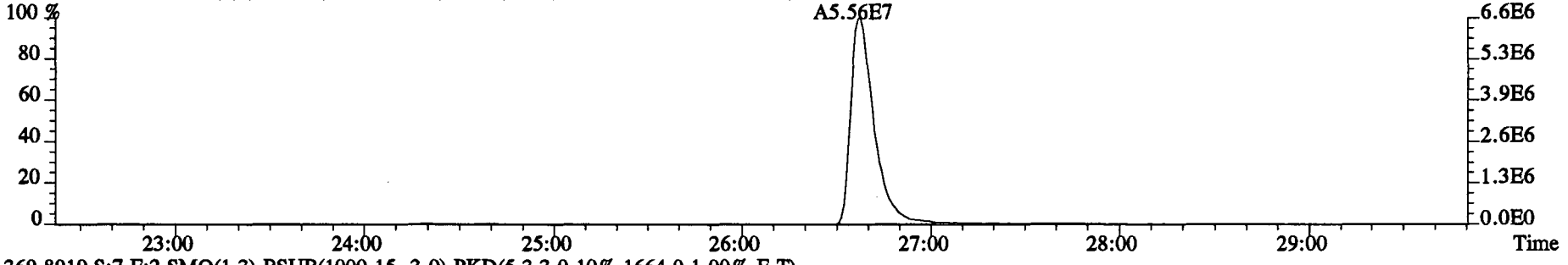
355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1992.0,1.00%,F,T)



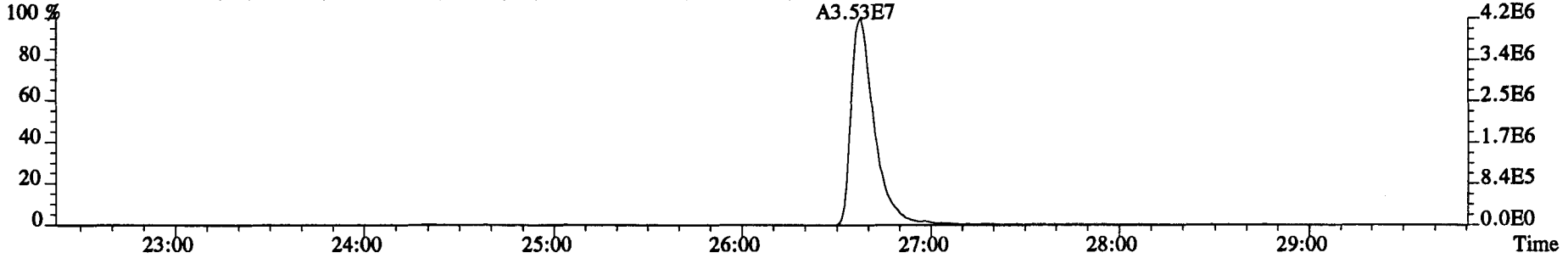
357.8516 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1468.0,1.00%,F,T)



367.8949 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2068.0,1.00%,F,T)

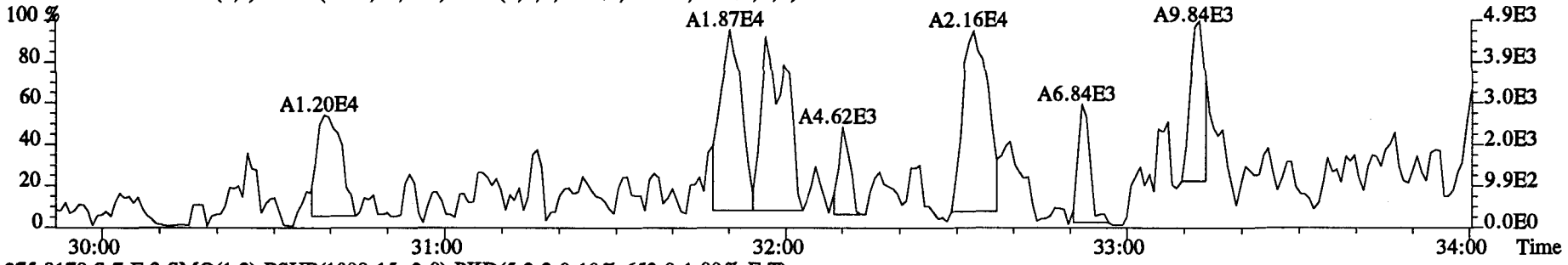


369.8919 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1664.0,1.00%,F,T)

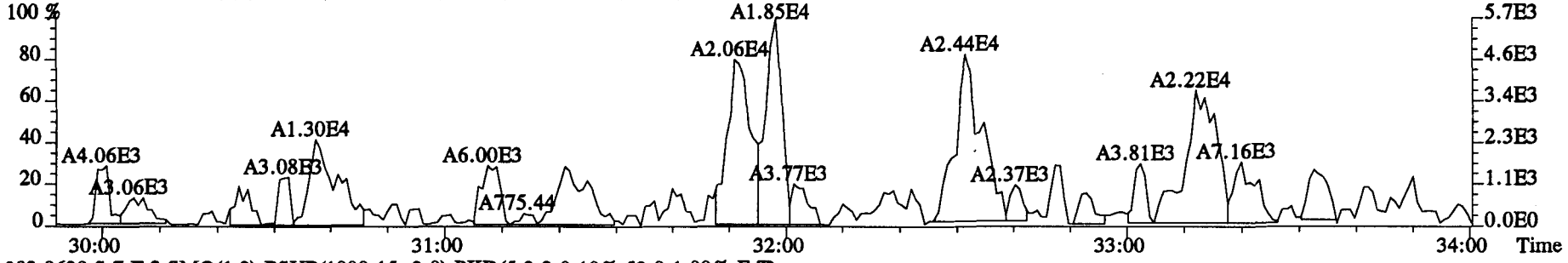


File:17FE104D5 #1-314 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN

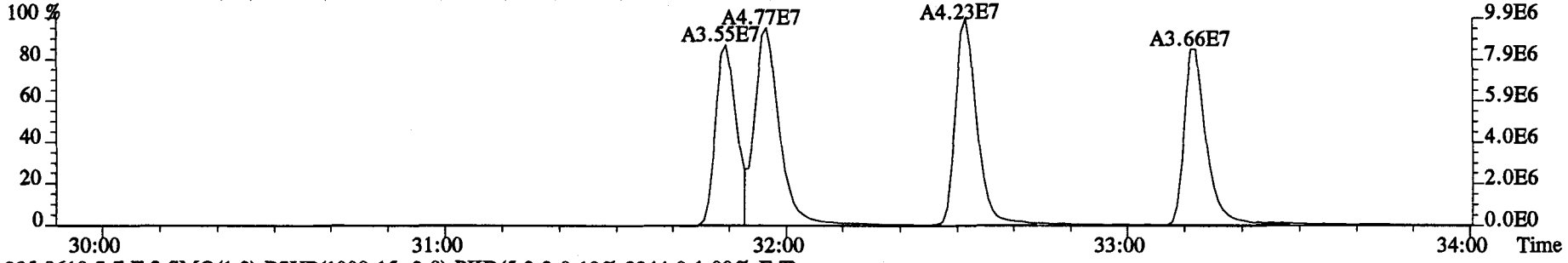
373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1612.0,1.00%,F,T)



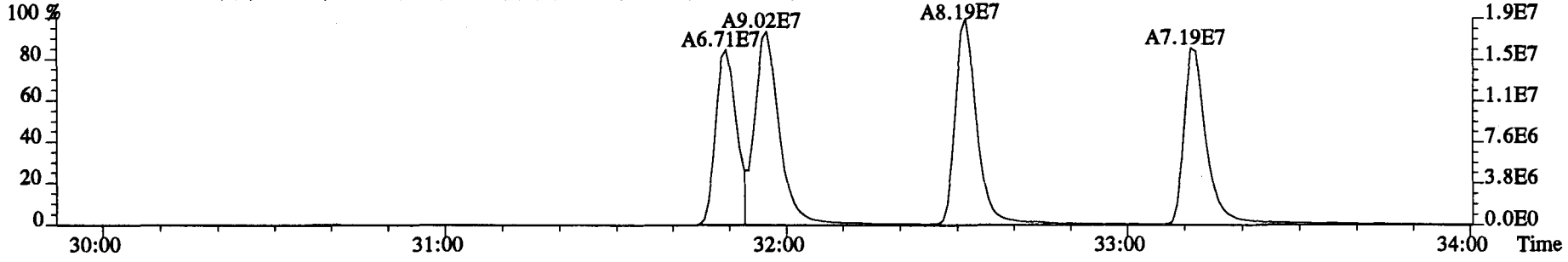
375.8178 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,652.0,1.00%,F,T)



383.8639 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52.0,1.00%,F,T)

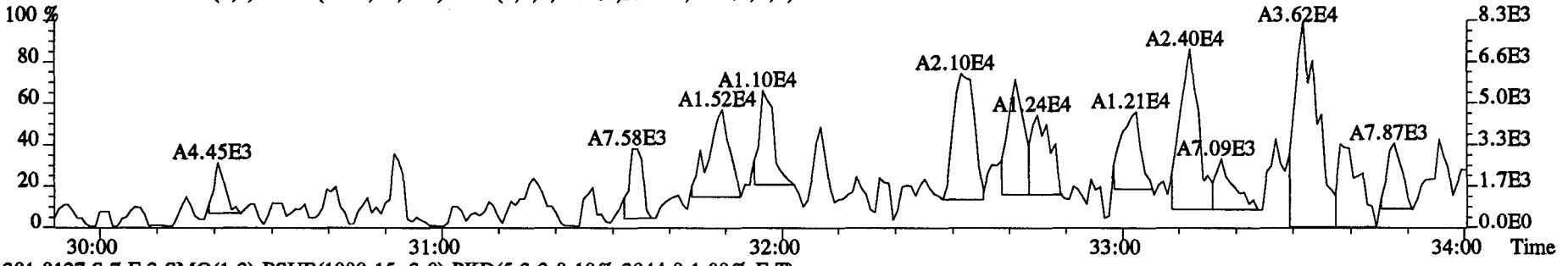


385.8610 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2244.0,1.00%,F,T)

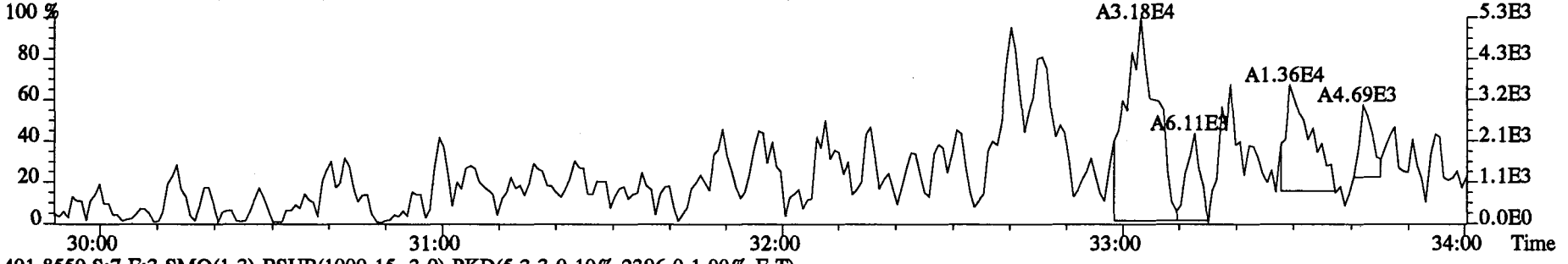


File:17FE104D5 #1-314 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN

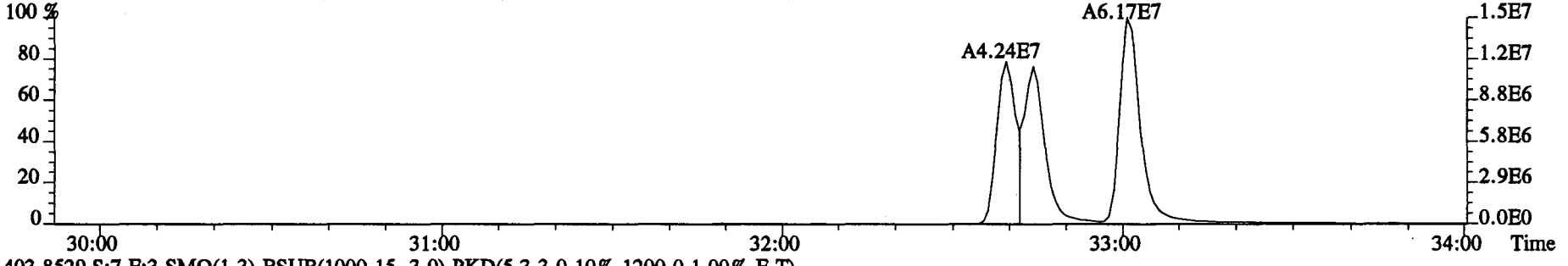
389.8157 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2132.0,1.00%,F,T)



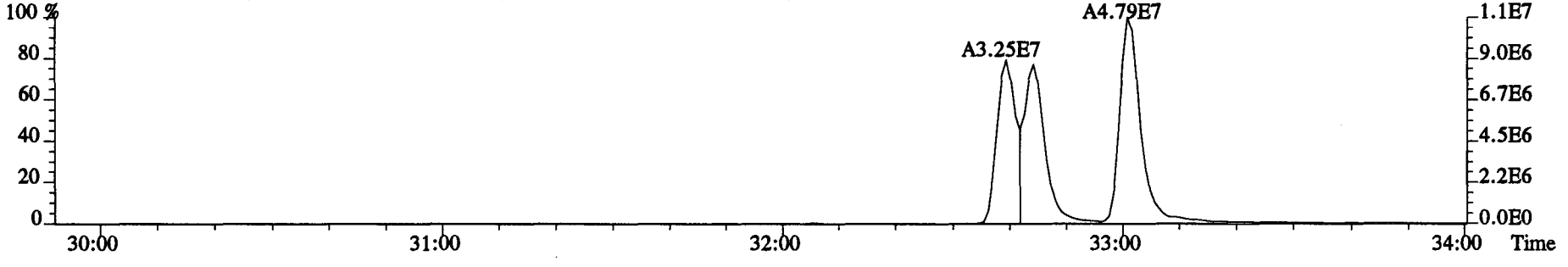
391.8127 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2044.0,1.00%,F,T)



401.8559 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2396.0,1.00%,F,T)

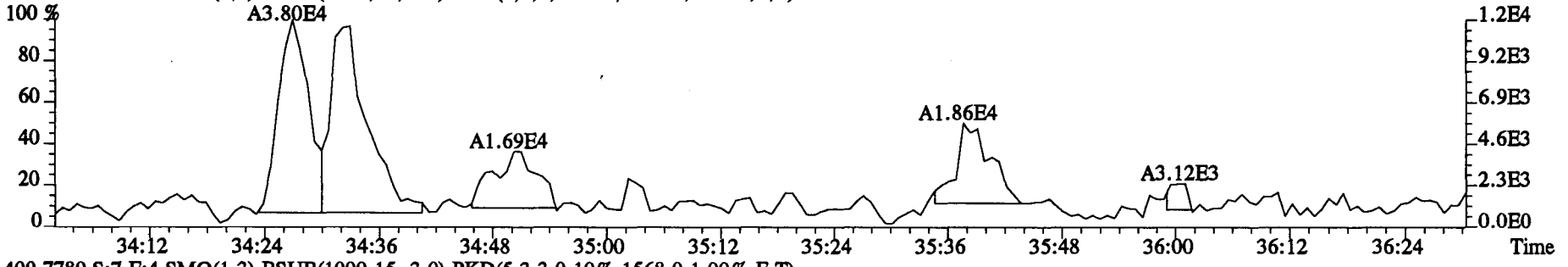


403.8529 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1200.0,1.00%,F,T)

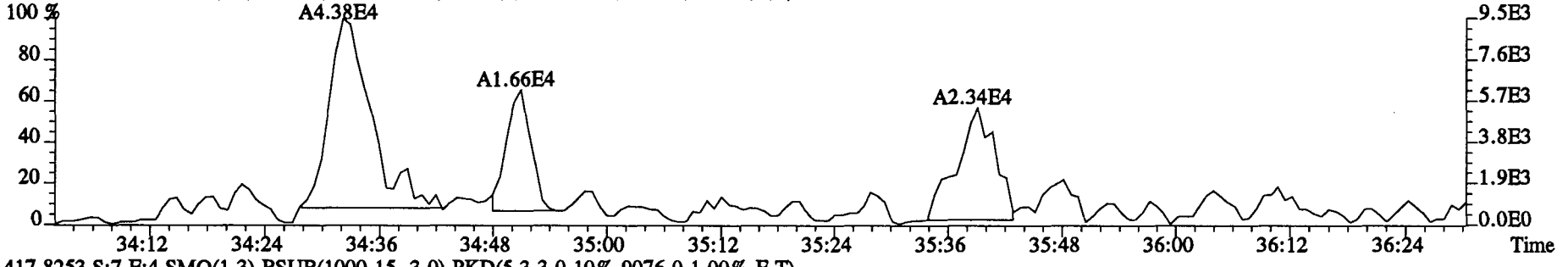


File:17FE104D5 #1-198 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN

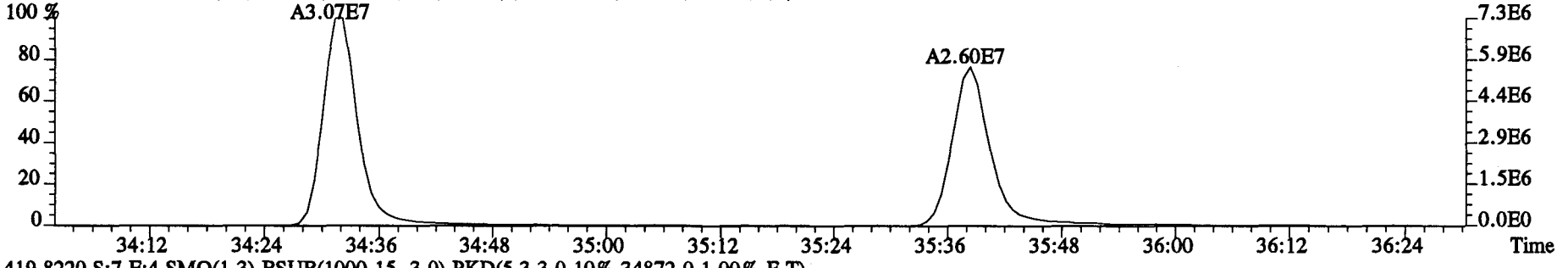
407.7818 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1588.0,1.00%,F,T)



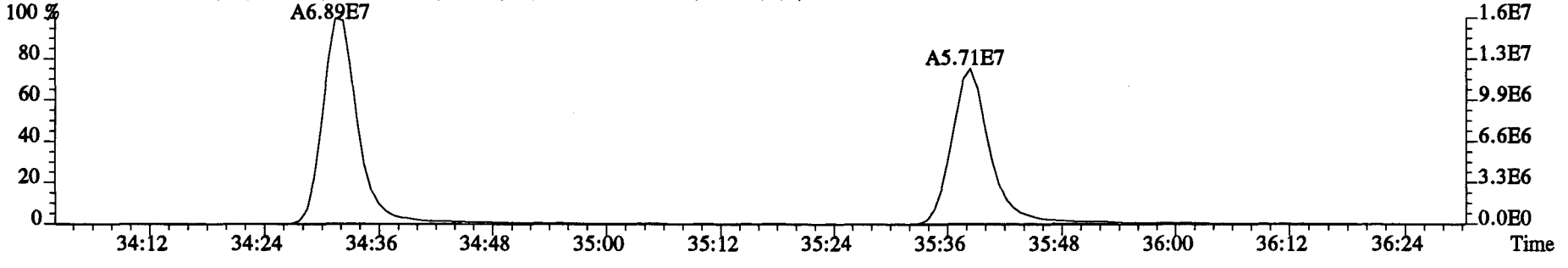
409.7789 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1568.0,1.00%,F,T)



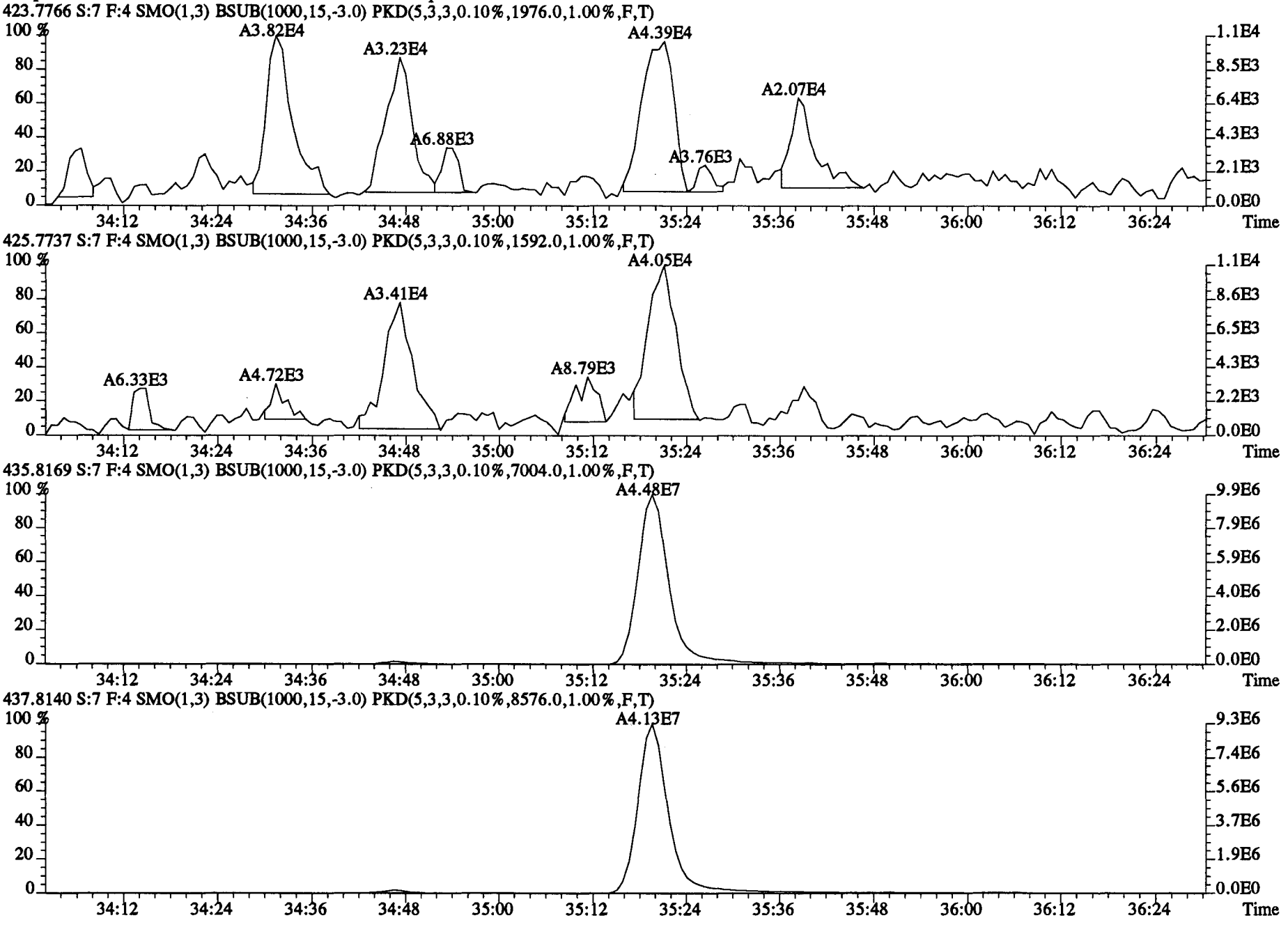
417.8253 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9076.0,1.00%,F,T)



419.8220 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,34872.0,1.00%,F,T)

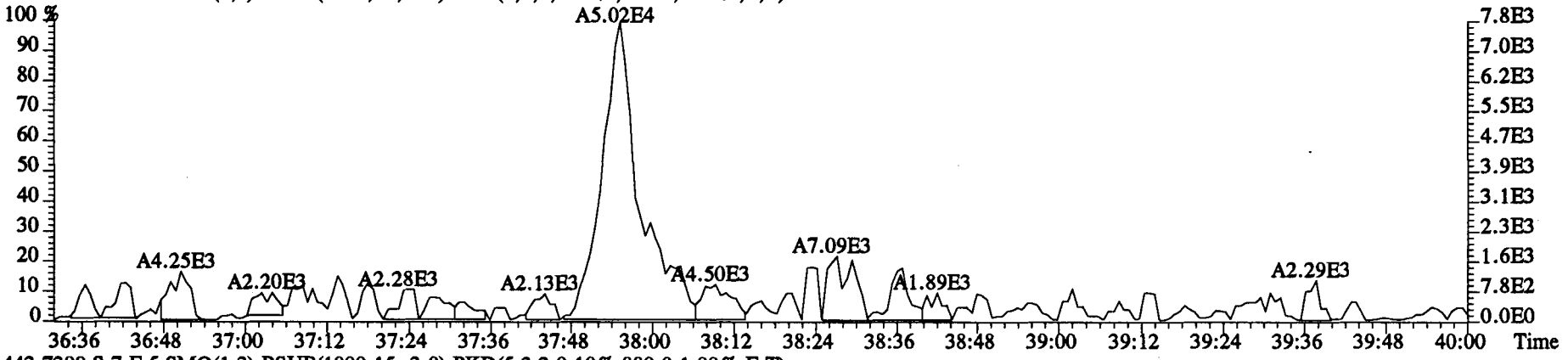


File:17FE104D5 #1-198 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN

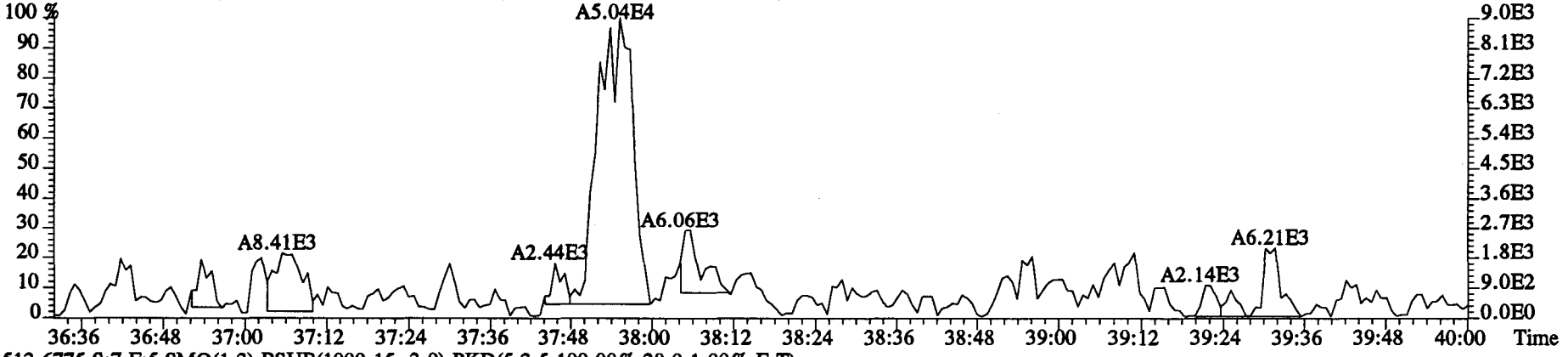


File:17FE104D5 #1-281 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN

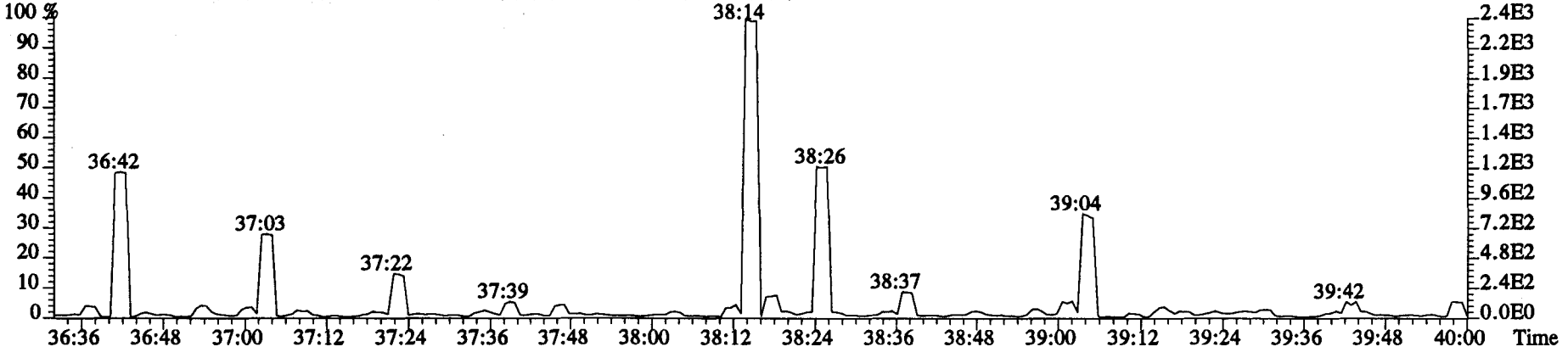
441.7428 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,484.0,1.00%,F,T)



443.7399 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,880.0,1.00%,F,T)

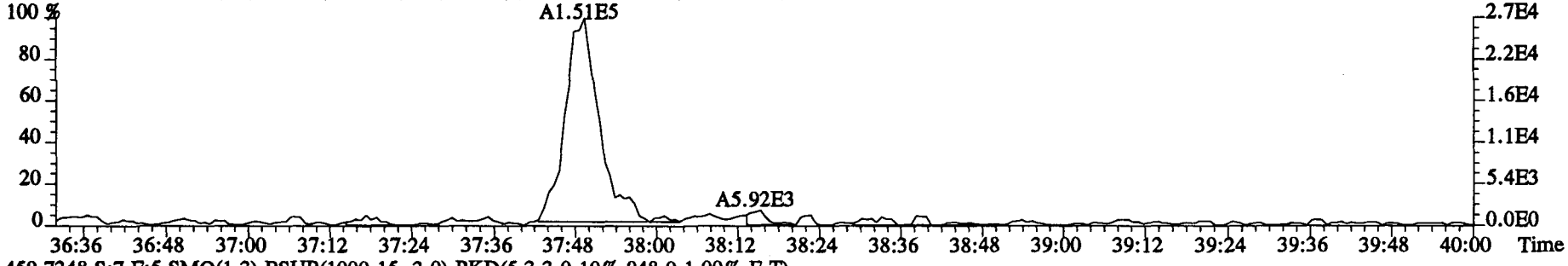


513.6775 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,28.0,1.00%,F,T)

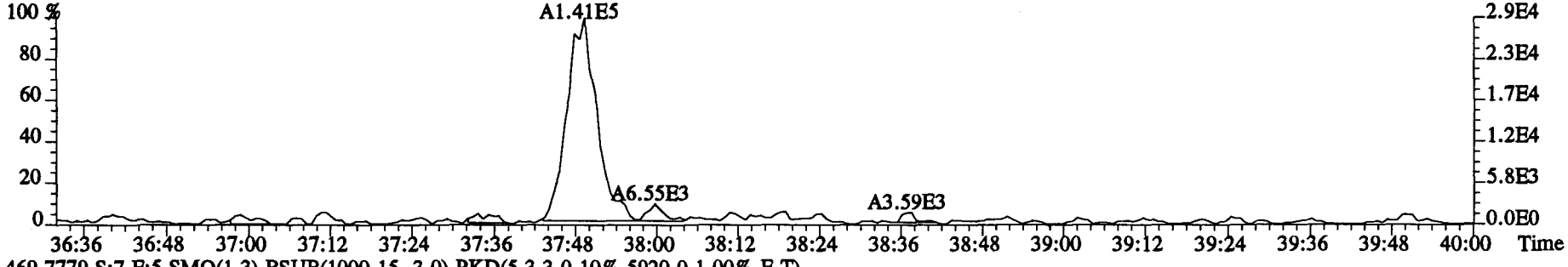


File:17FE104D5 #1-281 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN

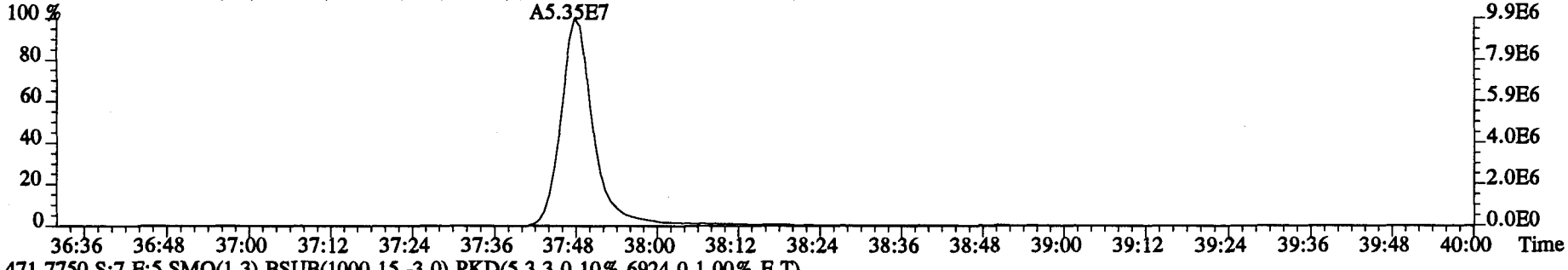
457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,596.0,1.00%,F,T)



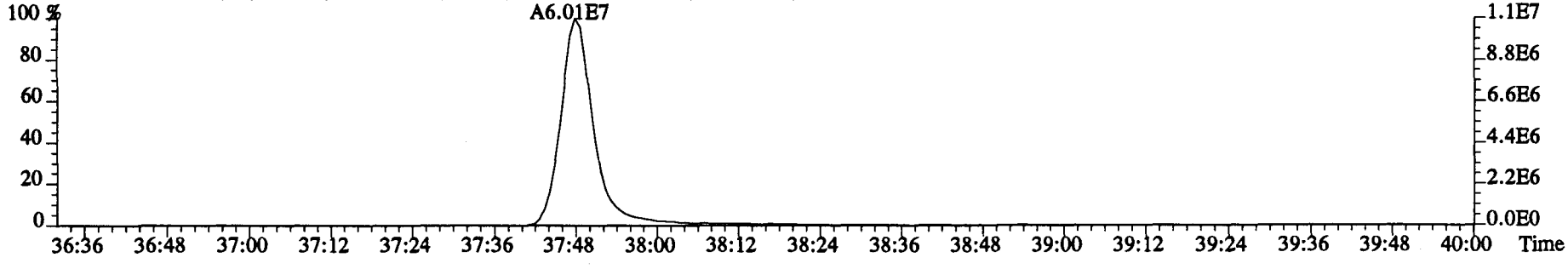
459.7348 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,948.0,1.00%,F,T)



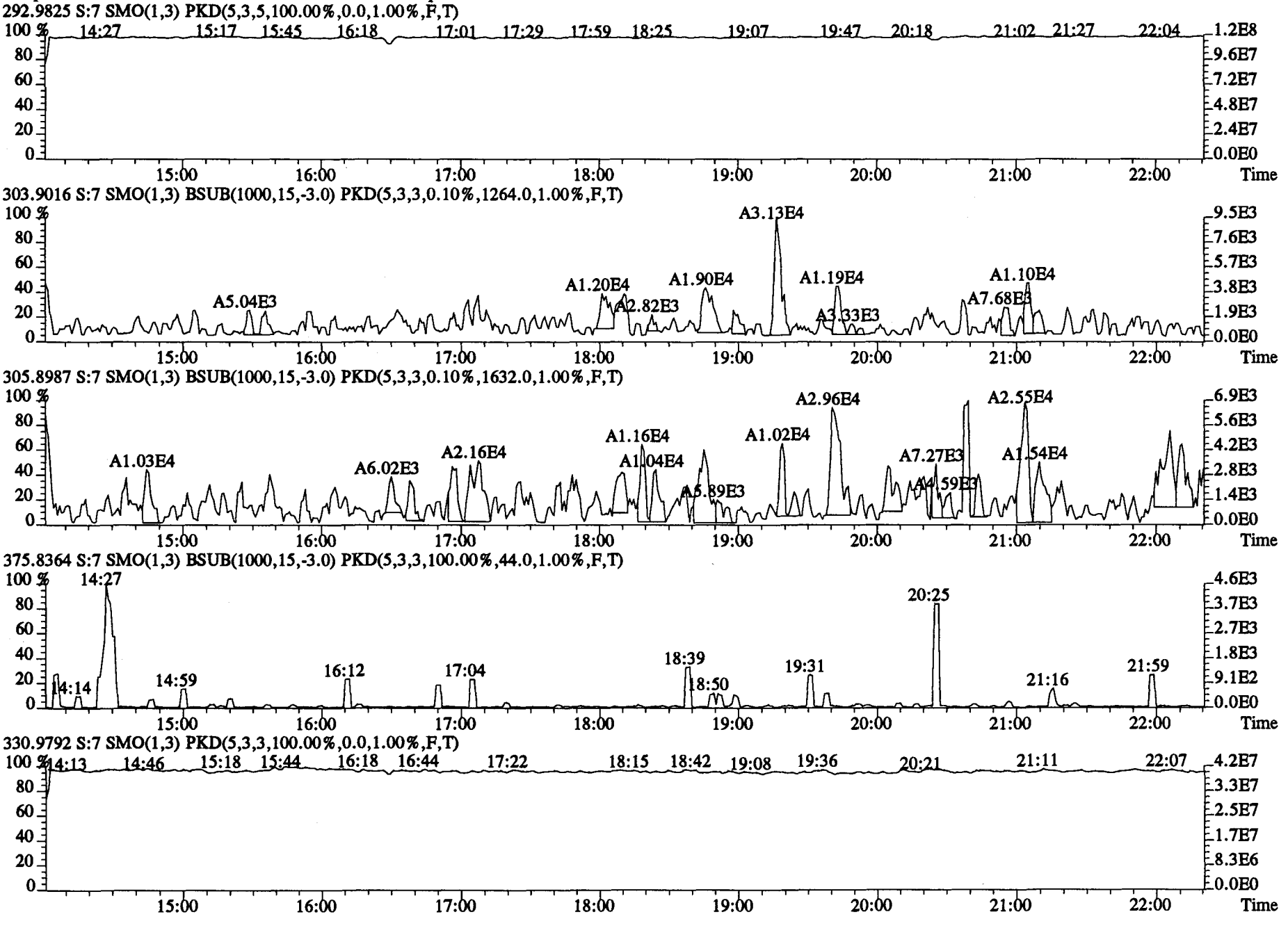
469.7779 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5920.0,1.00%,F,T)



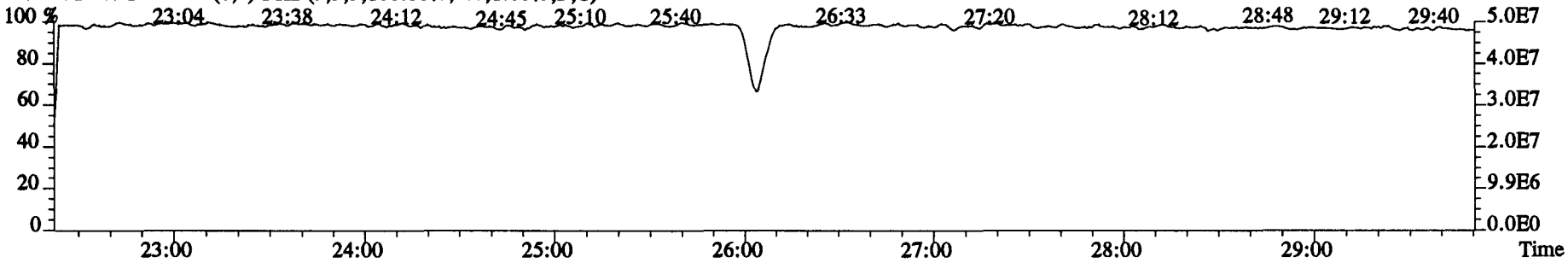
471.7750 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6924.0,1.00%,F,T)



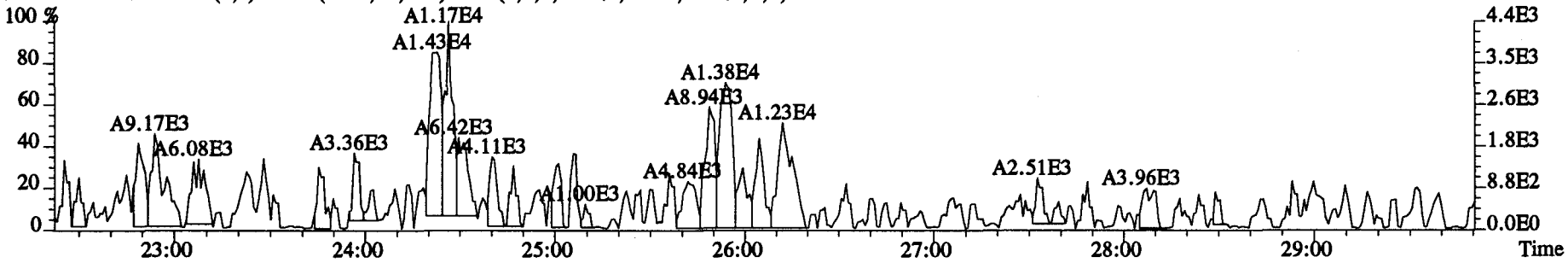
File:17FE104D5 #1-578 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN



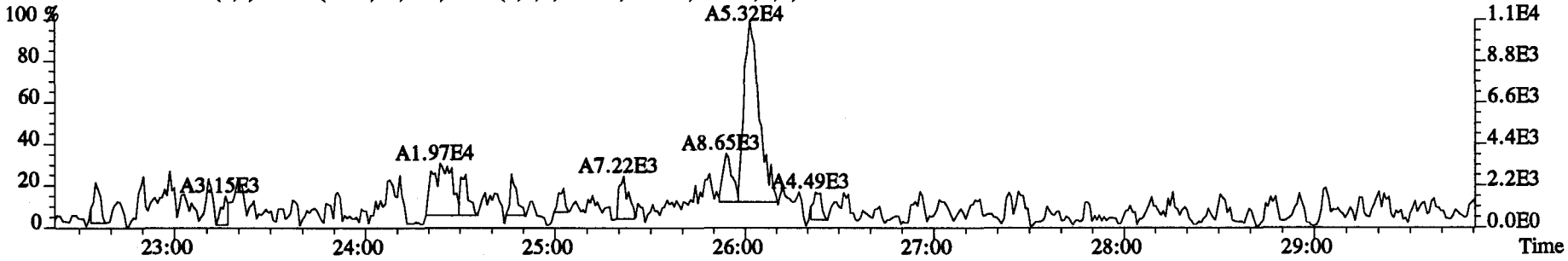
File:17FE104D5 #1-596 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN
342.9792 S:7 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



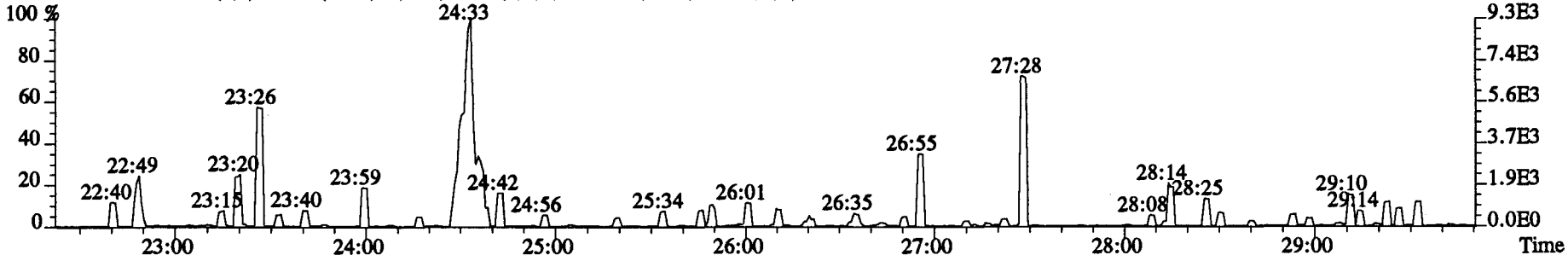
339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,644.0,1.00%,F,T)



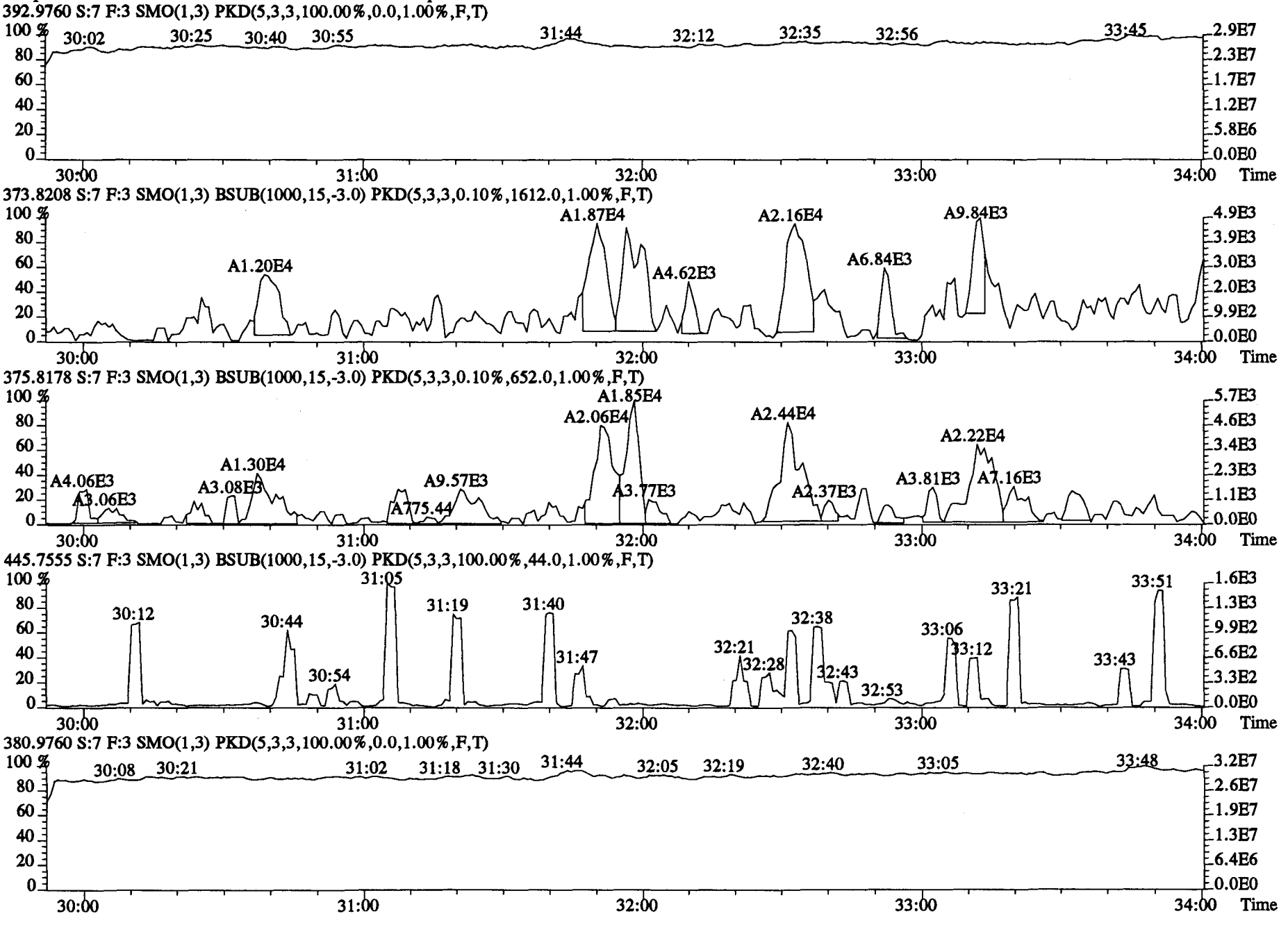
341.8567 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1516.0,1.00%,F,T)



409.7974 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,28.0,1.00%,F,T)

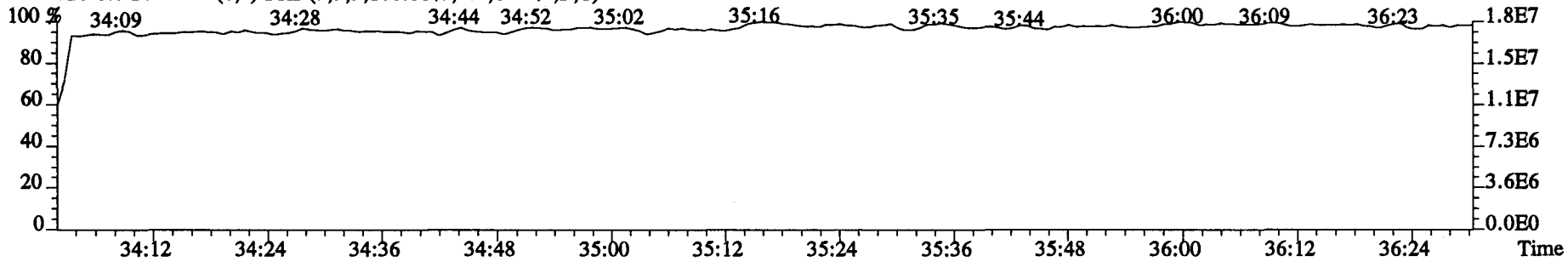


File:17FE104D5 #1-314 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN

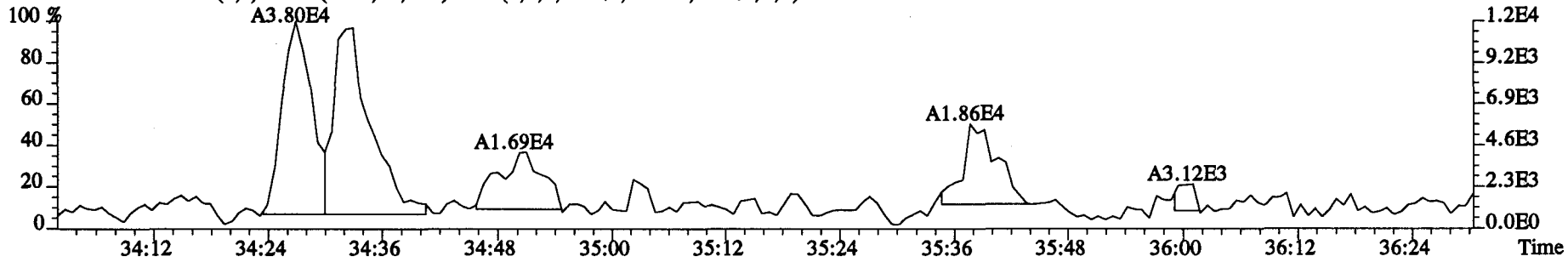


File:17FE104D5 #1-198 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN

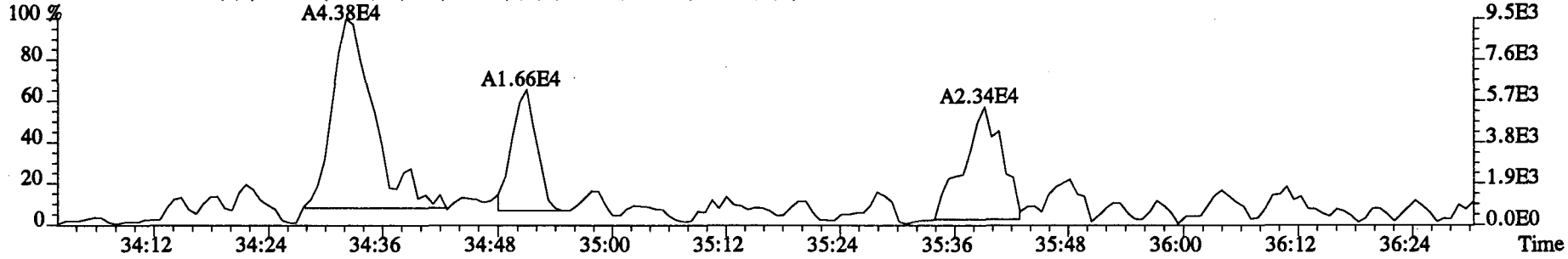
430.9728 S:7 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



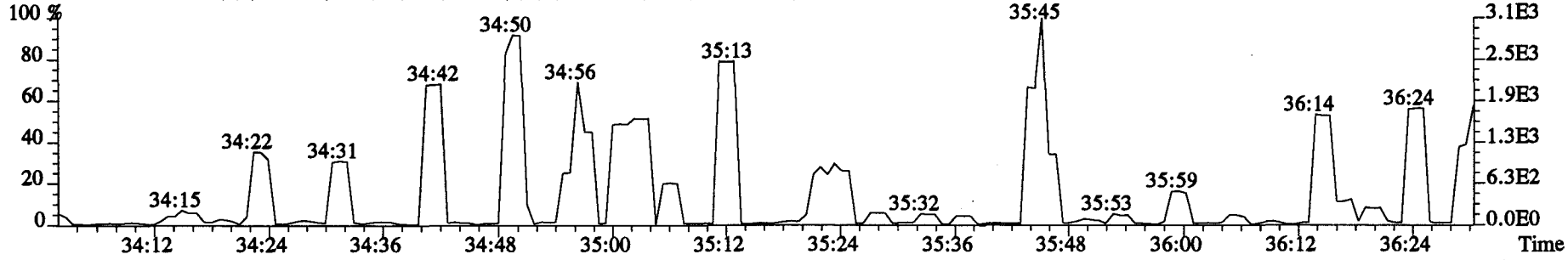
407.7818 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1588.0,1.00%,F,T)



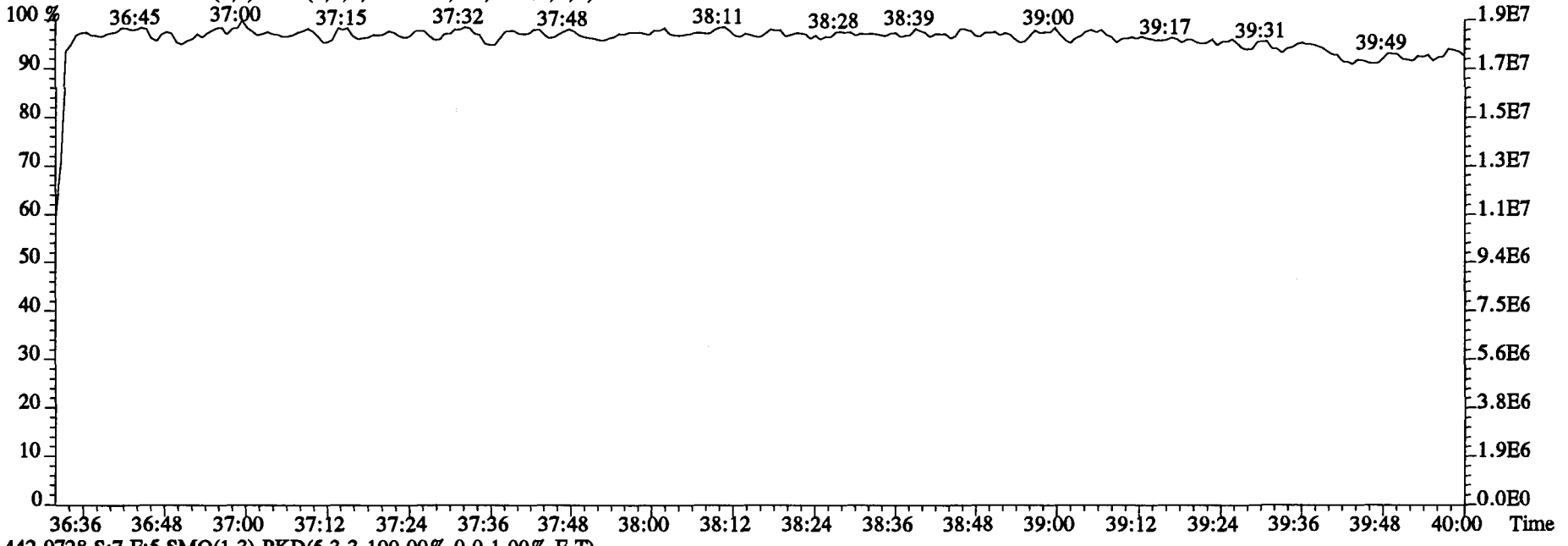
409.7789 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1568.0,1.00%,F,T)



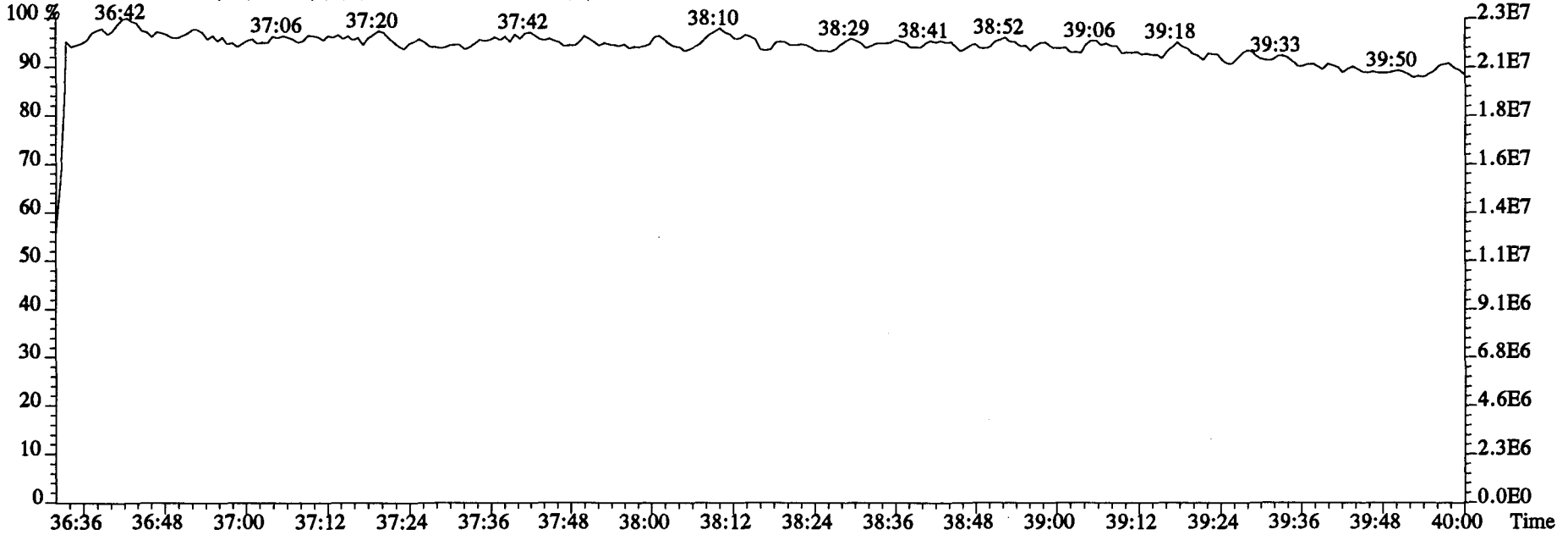
479.7165 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,36.0,1.00%,F,T)



File:17FE104D5 #1-281 Acq:17-FEB-2010 13:57:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LT76V-1-AA :G0B040517-2 Exp:DIOXIN
454.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: LT76X-1-AA Sample text: LT76X-1-AA :G0B040517-4
Run #12 Filename: 17FE104D5 S: 8 I: 1 Results: 17fe104d58290
Acquired: 17-FEB-10 14:42:02 Processed: 17-FEB-10 15:33:19
Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.05 L

AK 2/23/10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	120495700	0.81	y	19:17	-	68.83	-	-	n
13C-2,3,7,8-TCDF	174307600	0.79	y	18:45	1.57	1751.87	1.25	92.1	n
2,3,7,8-TCDF	28790	1.91	n	18:45	1.05	~~0.30~~	0.43	-	n
Total TCDF	490789	0.48	n	16:30	1.05	~~5.09~~ 3.09	0.43	-	n
13C-2,3,7,8-TCDD	106313800	0.80	y	19:32	1.00	1676.55	1.92	88.2	n
2,3,7,8-TCDD	395973	0.70	y	19:32	1.05	6.72 J	0.74	-	n
Total TCDD	445498	0.71	y	14:31	1.05	~~7.56~~ 6.72	0.74	-	n
37Cl-2,3,7,8-TCDD	106752800	1.00	y	19:33	2.42	697.49	0.06	91.7	n
13C-1,2,3,7,8-PeCDF	118683300	1.63	y	24:24	1.34	1401.44	2.60	73.7	n
1,2,3,7,8-PeCDF	82872	1.25	n	24:27	1.07	1.24 JQ	0.59	-	y
2,3,4,7,8-PeCDF	87525	0.66	n	25:58	1.04	1.35 ↓	0.61	-	y
Total F2 PeCDF	294688	1.59	y	22:54	1.05	~~4.49~~	0.60	-	y
Total F1 PeCDF	149480	0.47	n	14:34	1.05	~~2.27~~ 5.37	0.29	-	n
13C-1,2,3,7,8-PeCDD	70959700	1.58	y	26:40	0.81	1379.20	1.09	72.5	n
1,2,3,7,8-PeCDD	26353	0.97	n	26:41	1.04	~~0.68~~	1.82	-	n
Total PeCDD	143679	0.35	n	24:10	1.04	3~~.71~~	1.82	-	n
13C-1,2,3,7,8,9-HxCDD	78630500	1.28	y	33:03	-	45.84	-	-	n
13C-1,2,3,4,7,8-HxCDF	80451100	0.52	y	31:51	1.01	1917.96	0.87	100.8	n
1,2,3,4,7,8-HxCDF	81330	1.10	y	31:53	1.24	1.55 J	0.43	-	n
1,2,3,6,7,8-HxCDF	98429	1.27	y	31:59	1.49	1.56 J	0.36	-	n
2,3,4,6,7,8-HxCDF	82858	1.63	n	32:34	1.34	1.46 JQ	0.40	-	n
1,2,3,7,8,9-HxCDF	50898	0.78	n	33:14	1.22	0.99 JQ	0.44	-	n
Total HxCDF	338912	0.97	n	30:40	1.32	~~6.02~~ 5.57	0.41	-	n
13C-1,2,3,6,7,8-HxCDD	67915300	1.28	y	32:45	0.88	1858.53	1.50	97.7	n
1,2,3,4,7,8-HxCDD	61109	1.14	y	32:43	0.90	1.90 J	1.65	-	y
1,2,3,6,7,8-HxCDD	68897	1.42	y	32:47	1.19	1.62 J	1.25 ✓	-	y
1,2,3,7,8,9-HxCDD	48131	0.90	n	33:03	1.16	~~1.16 JQ~~	1.29 ✓	-	n
Total HxCDD	178137	1.14	y	32:43	1.08	✓ ~~4.68~~ 3.55	1.38	-	y
13C-1,2,3,4,6,7,8-HpCDF	74350200	0.45	y	34:33	0.94	1903.42	9.43	100.1	n
1,2,3,4,6,7,8-HpCDF	78771	0.87	n	34:34	1.30	1.55 JQ	0.56	-	n
1,2,3,4,7,8,9-HpCDF	35161	1.41	n	35:39	1.10	0.82 ↓	0.67	-	n
Total HpCDF	139442	0.87	n	34:34	1.20	~~2.91~~ 2.87	0.61	-	n
13C-1,2,3,4,6,7,8-HpCDD	59248500	1.08	y	35:20	0.79	1807.33	4.68	95.0	n
1,2,3,4,6,7,8-HpCDD	54174	1.17	y	35:21	1.06	1.65	1.20	-	n
Total HpCDD	106566	2.04	n	34:48	1.06	~~3.24~~ 2.69	1.20	-	n
13C-OCDD	74059000	0.89	y	37:49	0.58	3078.18	2.59	80.9	n

RAK 2/23/10

OCDF	80549	0.68	n	37:57	1.56	2.66	JQ	0.64	-	n
OCDD	183743	1.28	n	37:50	1.19	7.91	↓	0.87	-	n

Run text: LT76X-1-AA Sample text: LT76X-1-AA :G0B040517-4
Run #12 Filename: 17FE104D5 S: 8 I: 1 Results: 17FE104D58290
Acquired: 17-FEB-10 14:42:02 Processed: 17-FEB-10 15:33:19
Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.051600L

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	120495700	0.81	y	19:17	-	68.83	-	-	n
13C-2,3,7,8-TCDF	174307600	0.79	y	18:45	1.57	1751.87	1.25	92.1	n
2,3,7,8-TCDF	28790	1.91	n	18:45	1.05	0.30	0.43	-	n
Total TCDF	490789	0.48	n	16:30	1.05	5.09	0.43	-	n
13C-2,3,7,8-TCDD	106313800	0.80	y	19:32	1.00	1676.55	1.92	88.2	n
2,3,7,8-TCDD	395973	0.70	y	19:32	1.05	6.72	0.74	-	n
Total TCDD	445498	0.71	y	14:31	1.05	7.56	0.74	-	n
37Cl-2,3,7,8-TCDD	106752800	1.00	y	19:33	2.42	697.49	0.06	91.7	n
13C-1,2,3,7,8-PeCDF	118683200	1.63	y	24:24	1.34	1401.44	2.60	73.7	n
1,2,3,7,8-PeCDF	82872	1.22	n	24:27	1.07	1.24	0.59	-	n
2,3,4,7,8-PeCDF	80027	1.56	y	25:58	1.04	1.24	0.61	-	n
Total F2 PeCDF	287191	1.59	y	22:54	1.05	4.37	0.60	-	n
Total F1 PeCDF	149480	0.47	n	14:34	1.05	2.27	0.29	-	n
13C-1,2,3,7,8-PeCDD	70959700	1.58	y	26:40	0.81	1379.20	1.09	72.5	n
1,2,3,7,8-PeCDD	26353	0.97	n	26:41	1.04	0.68	1.82	-	n
Total PeCDD	143679	0.35	n	24:10	1.04	3.71	1.82	-	n
13C-1,2,3,7,8,9-HxCDD	78630500	1.28	y	33:03	-	45.84	-	-	n
13C-1,2,3,4,7,8-HxCDF	80451100	0.52	y	31:51	1.01	1917.96	0.87	100.8	n
1,2,3,4,7,8-HxCDF	81330	1.10	y	31:53	1.24	1.55	0.43	-	n
1,2,3,6,7,8-HxCDF	98429	1.27	y	31:59	1.49	1.56	0.36	-	n
2,3,4,6,7,8-HxCDF	82858	1.63	n	32:34	1.34	1.46	0.40	-	n
1,2,3,7,8,9-HxCDF	50898	0.78	n	33:14	1.22	0.99	0.44	-	n
Total HxCDF	338912	0.97	n	30:40	1.32	6.02	0.41	-	n
13C-1,2,3,6,7,8-HxCDD	67915300	1.28	y	32:45	0.88	1858.53	1.50	97.7	n
1,2,3,4,7,8-HxCDD	58886	0.70	n	32:43	0.90	1.83	1.65	-	n
1,2,3,6,7,8-HxCDD	72955	0.86	n	32:47	1.19	1.72	1.25	-	n
1,2,3,7,8,9-HxCDD	48131	0.90	n	33:03	1.16	1.16	1.29	-	n
Total HxCDD	179972	0.70	n	32:43	1.08	4.71	1.38	-	n
13C-1,2,3,4,6,7,8-HpCDF	74350200	0.45	y	34:33	0.94	1903.42	9.43	100.1	n
1,2,3,4,6,7,8-HpCDF	78771	0.87	n	34:34	1.30	1.55	0.56	-	n
1,2,3,4,7,8,9-HpCDF	35161	1.41	n	35:39	1.10	0.82	0.67	-	n
Total HpCDF	139442	0.87	n	34:34	1.20	2.91	0.61	-	n
13C-1,2,3,4,6,7,8-HpCDD	59248500	1.08	y	35:20	0.79	1807.33	4.68	95.0	n
1,2,3,4,6,7,8-HpCDD	54174	1.17	y	35:21	1.06	1.65	1.20	-	n
Total HpCDD	106566	2.04	n	34:48	1.06	3.24	1.20	-	n
13C-OCDD	74059000	0.89	y	37:49	0.58	3078.18	2.59	80.9	n

OCDF	80549	0.68	n	37:57	1.56	2.66	0.64	-	n
OCDD	183743	1.28	n	37:50	1.19	7.91	0.87	-	n

Run Text: LT76X-1-AA Sample text: LT76X-1-AA :G0B040517-4

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:11
Run: 12 File: 17FE104D5 S:8 Acq:17-FEB-10 14:42:02
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	5.35 of which	0.31 named and	5.04	unnamed
Conc:	5.09 of which	0.30 named and	4.79	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	16:30	0.48	n	0.18	7684	2.2	n	n
						15995	1.9	n	n
	2	16:57	0.46	n	0.39	16571	4.8	y	n
						35954	4.0	y	n
	3	17:04	0.42	n	0.19	7868	1.8	n	n
						18601	2.9	n	n
	4	17:11	0.75	y	2.66	109663	25.9	y	n
						147195	18.9	y	n
	5	17:29	3.16	n	0.10	16742	3.1	y	n
						5297	1.1	n	n
	6	17:46	1.33	n	0.43	31030	5.0	y	n
						23331	4.5	y	n
	7	18:05	0.97	n	0.11	5628	1.7	n	n
						5790	1.3	n	n
	8	18:11	1.31	n	0.11	7590	1.3	n	n
						5790	1.3	n	n
	9	18:25	0.77	y	0.22	9198	1.9	n	n
						11913	2.4	n	n
2,3,7,8-TCDF	10	18:45	1.91	n	0.30	31078	4.0	y	n
						16266	2.4	n	n
	11	19:45	0.79	y	0.40	17230	4.2	y	n
						21792	2.6	n	n

Run Text: LT76X-1-AA Sample text: LT76X-1-AA :G0B040517-4

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:5
Run: 12 File: 17FE104D5 S:8 Acq:17-FEB-10 14:42:02
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	7.95 of which	7.07 named and	0.88	unnamed
Conc:	7.56 of which	6.72 named and	0.84	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:31	0.71	y	0.26	6263	1.6	n	n
						8787	2.1	n	n
	2	18:15	0.59	n	0.24	6193	1.8	n	n
						10495	2.5	n	n
	3	18:19	0.56	n	0.23	5911	1.8	n	n
						10495	2.5	n	n
2,3,7,8-TCDD	4	19:32	0.70	y	6.72	162534	23.0	y	n
						233439	28.6	y	n
	5	19:50	0.39	n	0.11	2893	0.9	n	n
						7484	1.1	n	n

Totals Results TestAmerica West Sacramento

see 3A

Run Text: LT76X-1-AA Sample text: LT76X-1-AA :G0B040517-4

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:3
Run: 12 File: 17FE104D5 S:8 Acq:17-FEB-10 14:42:02
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	4.60 of which	2.61 named and	1.99 unnamed
Conc:	4.37 of which	2.48 named and	1.89 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	22:54	1.59	y	1.89	76327	20.5	y	n
						47965	4.5	y	n
1,2,3,7,8-PeCDF	2	24:27	1.22	n	1.24	50373	12.4	y	n
						41277	4.6	y	n
2,3,4,7,8-PeCDF	3	25:58	1.56	y	1.24	48808	12.2	y	n
						31219	5.9	y	n

3A

Run Text: LT76X-1-AA Sample text: LT76X-1-AA :G0B040517-4

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? yes #Hom:3
Run: 12 File: 17FE104D5 S:8 Acq:17-FEB-10 14:42:02
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17fe104d

Amount:	4.72 of which	2.73 named and	1.99 unnamed	
Conc:	4.49 of which	2.60 named and	1.89 unnamed	

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	22:54	1.59	y	1.89	76327	20.5	y	n
						47963	4.5	y	y
1,2,3,7,8-PeCDF	2	24:27	1.25	n	1.24	50373	12.4	y	n
						40227	4.8	y	y
2,3,4,7,8-PeCDF	3	25:58	0.66	n	1.35	53202	12.7	y	y
						80919	5.9	y	y

Run Text: LT76X-1-AA Sample text: LT76X-1-AA :G0B040517-4

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:24
Run: 12 File: 17FE104D5 S:8 Acq:17-FEB-10 14:42:02
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2.39 of which	* named and	2.39	unnamed
Conc:	2.27 of which	* named and	2.27	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:34	0.47	n	0.05	2141	9.3	y	n
						4545	2.2	n	n
	2	15:13	0.19	n	0.03	1227	8.0	y	n
						6571	2.4	n	n
	3	15:19	0.25	n	0.04	1674	11.9	y	n
						6571	2.4	n	n
	4	16:28	0.21	n	0.16	6275	23.0	y	n
						29265	8.0	y	n
	5	16:43	1.54	y	0.09	3582	15.7	y	n
						2332	1.1	n	n
	6	16:49	0.31	n	0.03	1134	7.8	y	n
						3660	1.7	n	n
	7	16:59	2.10	n	0.08	4517	24.7	y	n
						2153	0.5	n	n
	8	17:08	0.16	n	0.02	905	6.7	y	n
						5499	1.8	n	n
	9	17:35	0.32	n	0.05	2012	15.6	y	n
						6239	1.6	n	n
	10	17:53	0.15	n	0.03	1368	8.9	y	n
						8988	1.9	n	n
	11	18:02	0.70	n	0.08	3098	14.2	y	n
						4436	1.8	n	n
	12	18:13	0.45	n	0.04	1606	11.4	y	n
						3585	1.2	n	n
	13	18:16	1.60	y	0.14	5749	21.5	y	n
						3585	1.2	n	n
	14	18:52	0.72	n	0.09	3770	12.1	y	n
						5217	2.3	n	n
	15	18:59	0.18	n	0.06	2342	13.8	y	n
						13291	2.6	n	n
	16	19:51	0.40	n	0.04	1693	13.7	y	n

					4191	1.3	n	n
17	20:24	0.03	n	0.03	1280	9.7	y	n
					42736	6.8	y	n
18	20:30	0.01	n	0.01	416	2.5	n	n
					42736	6.8	y	n
19	20:35	0.02	n	0.00	59	0.2	n	n
					2699	1.2	n	n
20	21:08	2.01	n	0.88	45568	166.1	y	n
					22706	6.1	y	n
21	21:18	0.53	n	0.07	2896	17.2	y	n
					5431	1.7	n	n
22	21:24	0.33	n	0.04	1407	9.9	y	n
					4304	1.9	n	n
23	21:29	0.58	n	0.06	2498	17.7	y	n
					4304	1.9	n	n
24	22:03	0.59	n	0.13	5260	32.1	y	n
					8931	2.4	n	n

Run Text: LT76X-1-AA Sample text: LT76X-1-AA :G0B040517-4

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:7
Run: 12 File: 17FE104D5 S:8 Acq:17-FEB-10 14:42:02
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	3.90 of which	0.72 named and	3.19	unnamed
Conc:	3.71 of which	0.68 named and	3.03	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	24:10	0.35	n	0.40	9396	1.4	n	n
						26644	3.6	y	n
	2	24:42	0.85	n	1.30	30527	2.6	n	n
						35730	5.0	y	n
	3	25:10	23.78	n	0.04	13500	1.7	n	n
						568	0.2	n	n
	4	26:02	1.10	n	0.59	13785	1.9	n	n
						12486	2.9	n	n
1,2,3,7,8-PeCDD	5	26:41	0.97	n	0.68	16018	1.7	n	n
						16580	3.6	y	n
	6	26:45	0.54	n	0.38	9014	1.6	n	n
						16580	3.6	y	n
	7	26:59	1.36	y	0.33	7310	1.2	n	n
						5383	2.0	n	n

Run Text: LT76X-1-AA Sample text: LT76X-1-AA :G0B040517-4

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:6
Run: 12 File: 17FE104D5 S:8 Acq:17-FEB-10 14:42:02
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	6.33 of which	5.85 named and	0.48	unnamed
Conc:	6.02 of which	5.56 named and	0.45	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	30:40	0.97	n	0.20	6239	1.5	n	n
						6404	2.9	n	n
1,2,3,4,7,8-HxCDF	2	31:53	1.10	y	1.55	42583	8.0	y	n
						38747	12.5	y	n
1,2,3,6,7,8-HxCDF	3	31:59	1.27	y	1.56	55059	12.1	y	n
						43370	13.5	y	n
2,3,4,6,7,8-HxCDF	4	32:34	1.63	n	1.46	60436	10.7	y	n

						36990	11.4	y	n
	5	32:51	1.19	y	0.25	7677	1.3	n	n
						6451	3.6	y	n
1,2,3,7,8,9-HxCDF	6	33:14	0.78	n	0.99	28176	7.1	y	n
						35971	12.5	y	n

4e 1A

Run Text: LT76X-1-AA Sample text: LT76X-1-AA :G0B040517-4

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:3
Run: 12 File: 17FE104D5 S:8 Acq:17-FEB-10 14:42:02
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	4.95 of which	4.95 named and	*	unnamed
Conc:	4.71 of which	4.71 named and	*	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,7,8-HxCDD	1	32:43	0.70	n	1.83	32598	3.4	y	n
						46895	4.1	y	n
1,2,3,6,7,8-HxCDD	2	32:47	0.86	n	1.72	40386	3.9	y	n
						46895	4.1	y	n
					LEDL				
1,2,3,7,8,9-HxCDD	3	33:03	0.90	n	1.16	26644	3.5	y	n
						29550	3.8	y	n

Run Text: LT76X-1-AA Sample text: LT76X-1-AA :G0B040517-4

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4
Run: 12 File: 17FE104D5 S:8 Acq:17-FEB-10 14:42:02
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	3.06 of which	2.49 named and	0.57	unnamed
Conc:	2.91 of which	2.37 named and	0.54	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:34	0.87	n	1.55	40158	6.6	y	n
						46187	9.5	y	n
	2	34:51	0.80	n	0.34	8063	1.7	n	n
						10072	3.1	y	n
1,2,3,4,7,8,9-HpCDF	3	35:39	1.41	n	0.82	24342	4.5	y	n
						17236	4.6	y	n
	4	35:48	0.50	n	0.21	4942	1.2	n	n
						9962	2.8	n	n

7A

Run Text: LT76X-1-AA Sample text: LT76X-1-AA :G0B040517-4

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? yes #Hom:3
Run: 12 File: 17FE104D5 S:8 Acq:17-FEB-10 14:42:02
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17fe104d

Amount:	4.92 of which	4.92 named and	*	unnamed
Conc:	4.68 of which	4.68 named and	*	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,7,8-HxCDD	1	32:43	1.14	y	1.90	32598	3.4	y	n
						28511	4.1	y	y
1,2,3,6,7,8-HxCDD	2	32:47	1.42	y	1.62	40386	3.9	y	n
						28511	4.1	y	y
1,2,3,7,8,9-HxCDD	3	33:03	0.90	n	1.16	26644	3.5	y	n
						29550	3.8	y	n

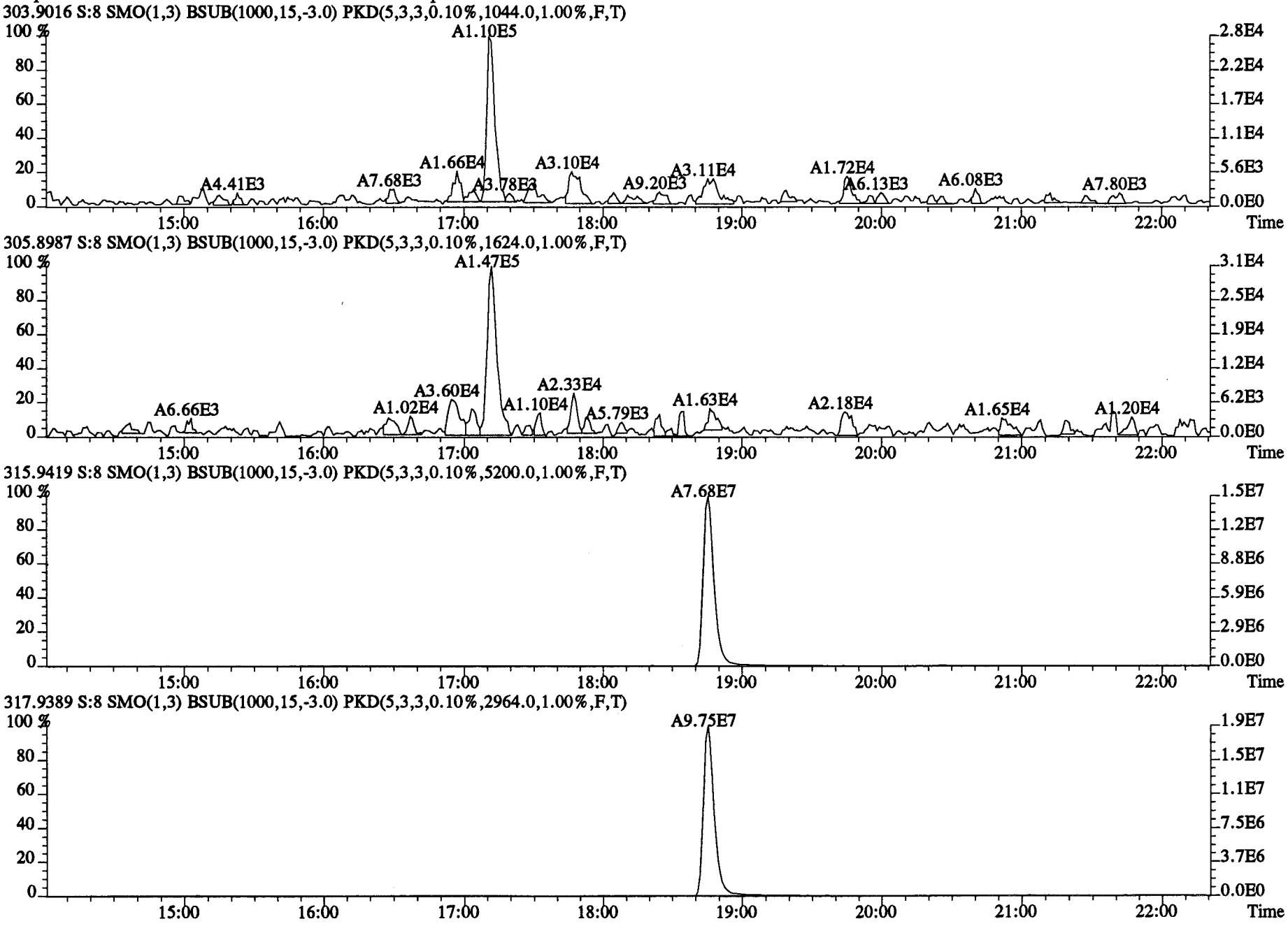
Run Text: LT76X-1-AA Sample text: LT76X-1-AA :G0B040517-4

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:3
Run: 12 File: 17FE104D5 S:8 Acq:17-FEB-10 14:42:02
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

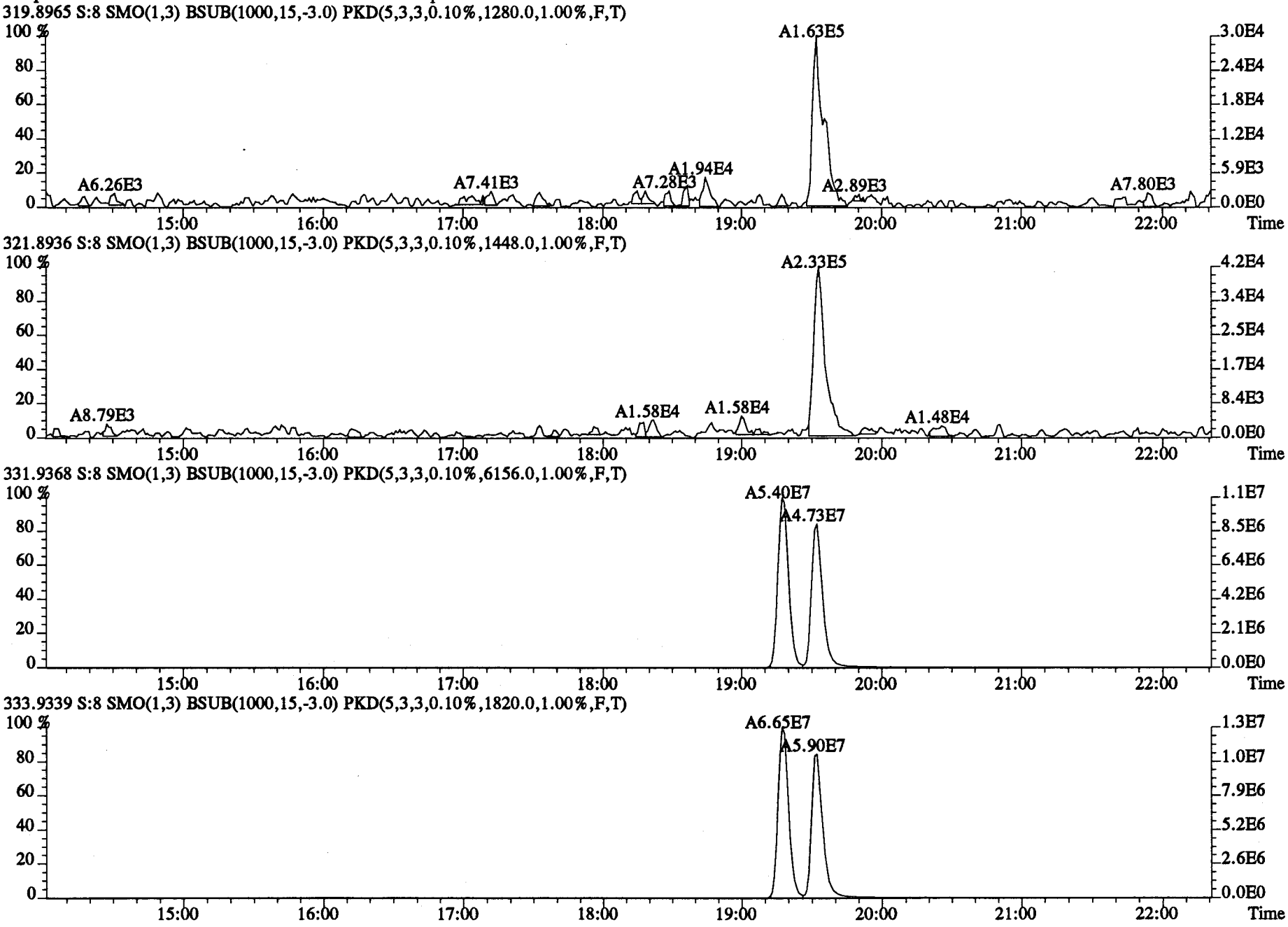
Amount:	3.41 of which	1.73 named and	1.67	unnamed
Conc:	3.24 of which	1.65 named and	1.59	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	34:48	2.04	n	1.04	34338	4.6	y	n
						16791	4.0	y	n
1,2,3,4,6,7,8-HpCDD	2	35:21	1.17	y	1.65	29258	5.1	y	n
						24916	6.0	y	n
	3	35:42	1.78	n	0.55	15840	2.3	n	n
						8891	1.5	n	n

File:17FE104D5 #1-578 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN

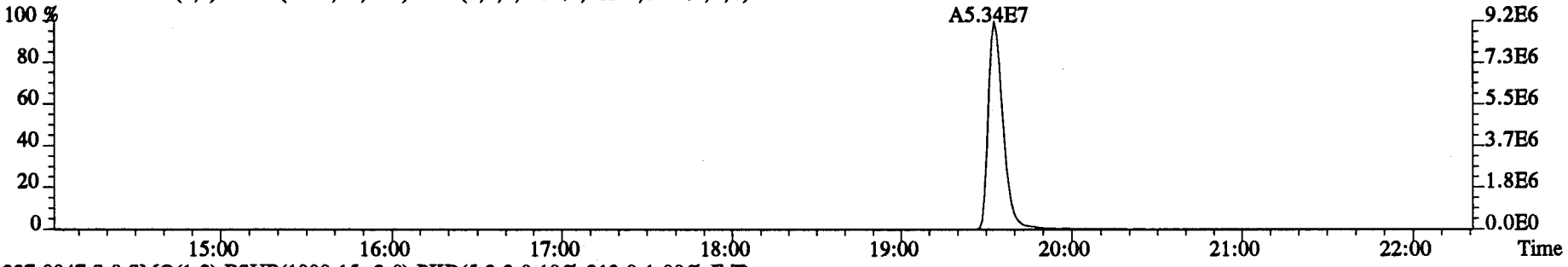


File:17FE104D5 #1-578 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN

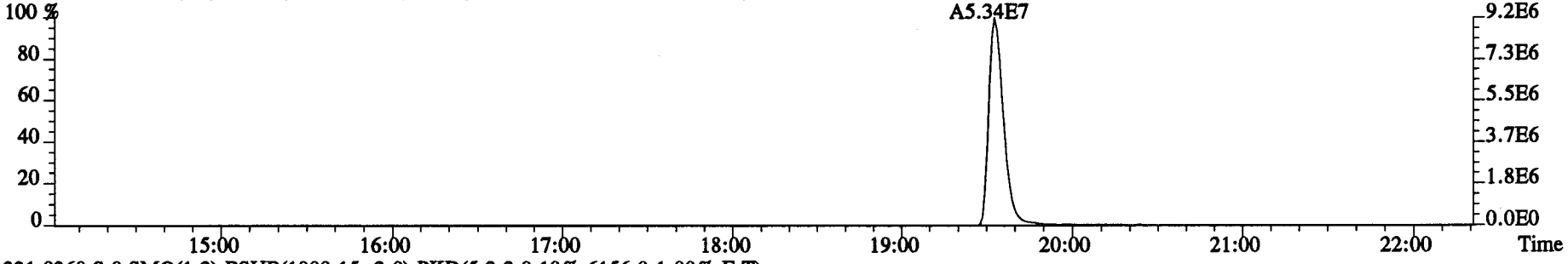


File:17FE104D5 #1-578 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN

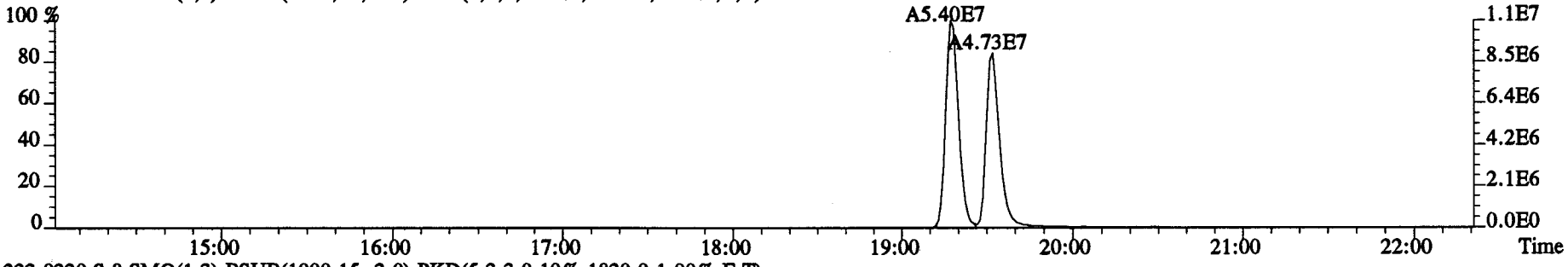
327.8847 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,312.0,1.00%,F,T)



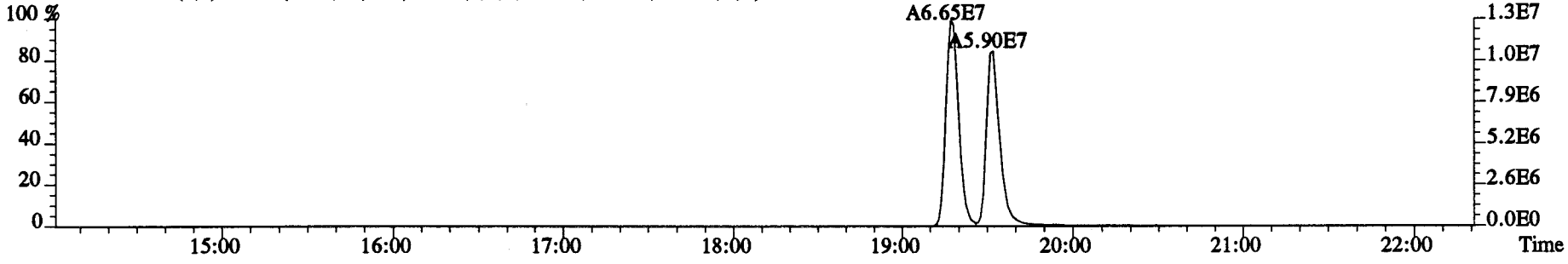
327.8847 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,312.0,1.00%,F,T)



331.9368 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6156.0,1.00%,F,T)

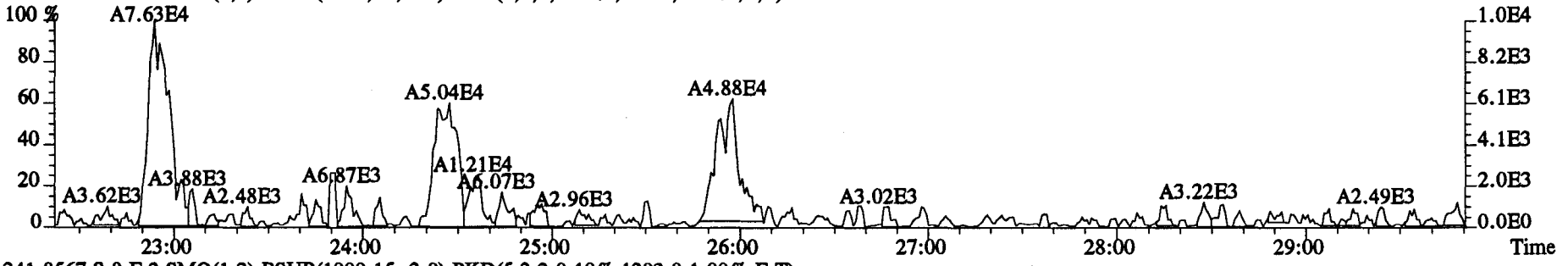


333.9339 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1820.0,1.00%,F,T)

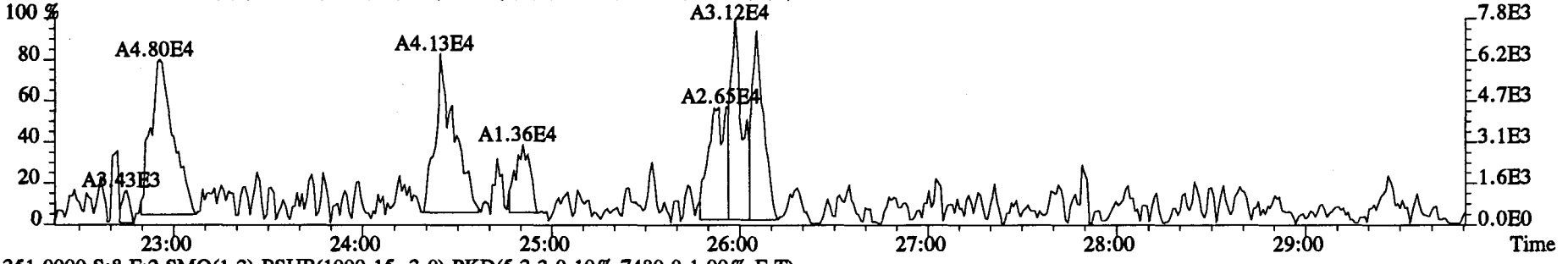


File:17FE104D5 #1-596 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN

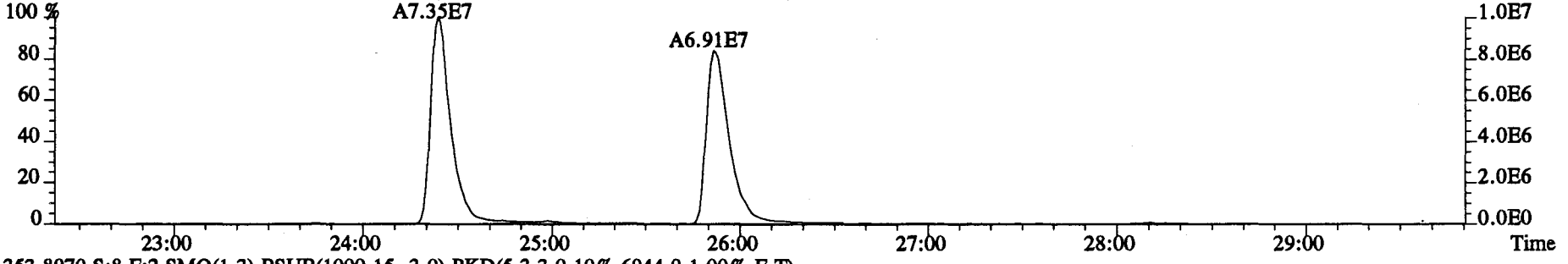
339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,496.0,1.00%,F,T)



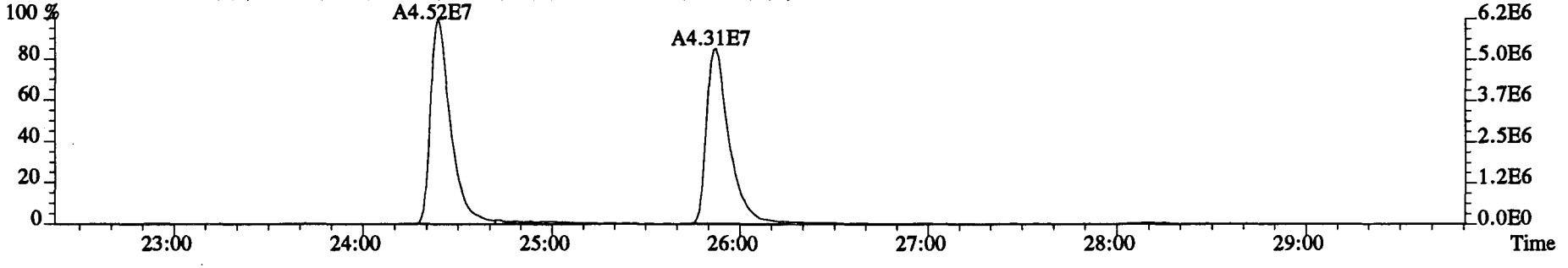
341.8567 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1292.0,1.00%,F,T)



351.9000 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7480.0,1.00%,F,T)

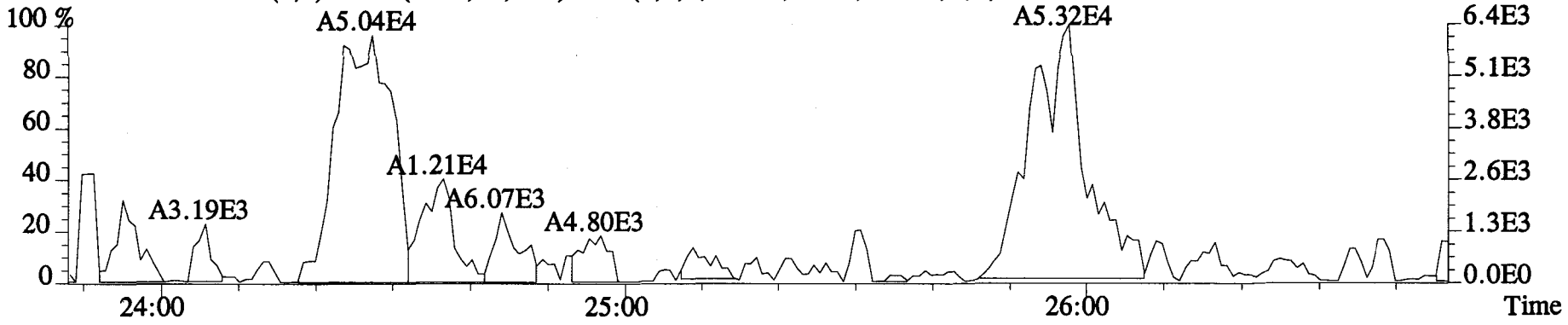


353.8970 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6944.0,1.00%,F,T)

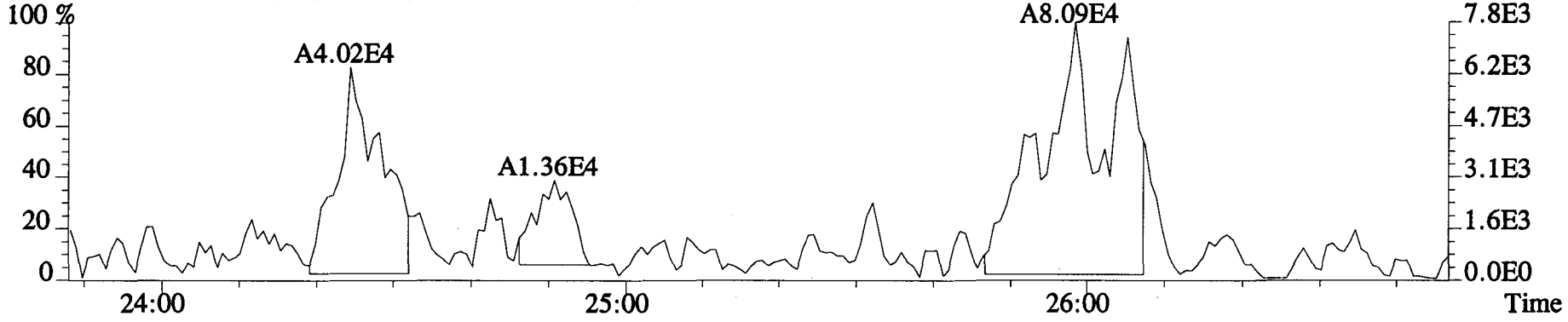


File:17FE104D5 #1-596 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN

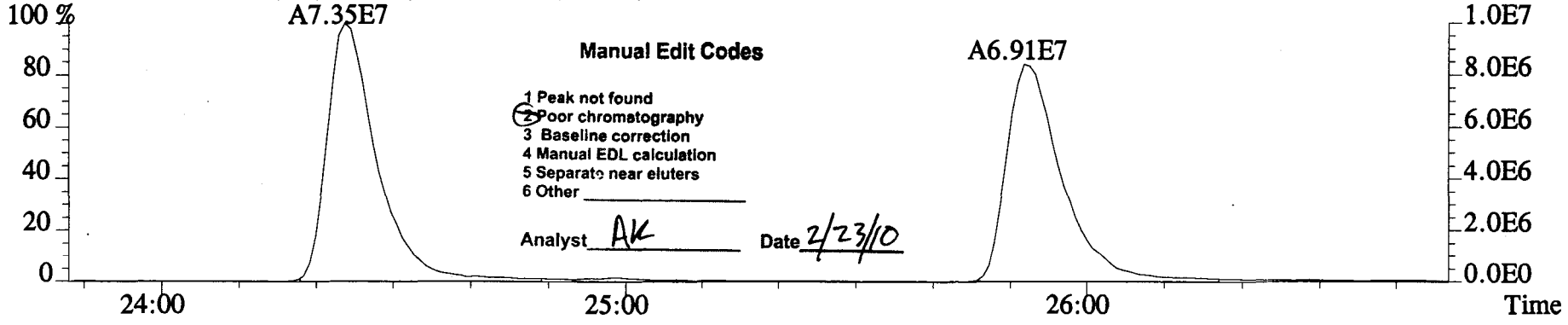
339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,496.0,1.00%,F,T)



341.8567 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1292.0,1.00%,F,T)



351.9000 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7480.0,1.00%,F,T)

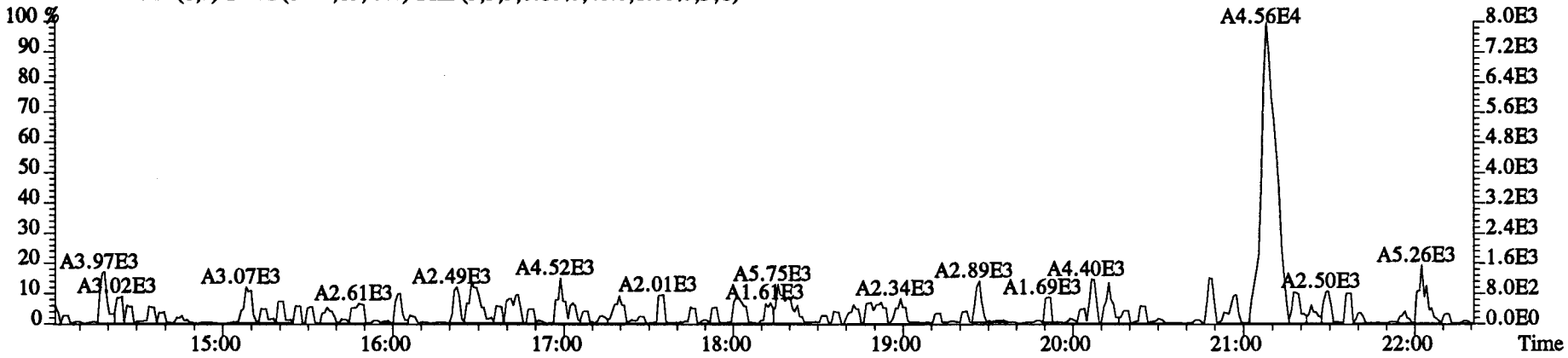


Manual Edit Codes

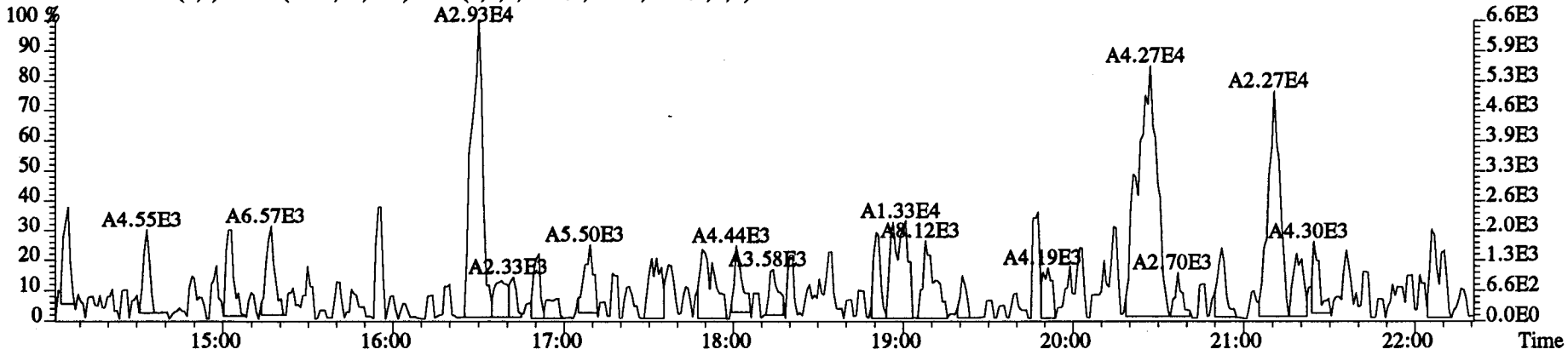
1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst AK Date 2/23/10

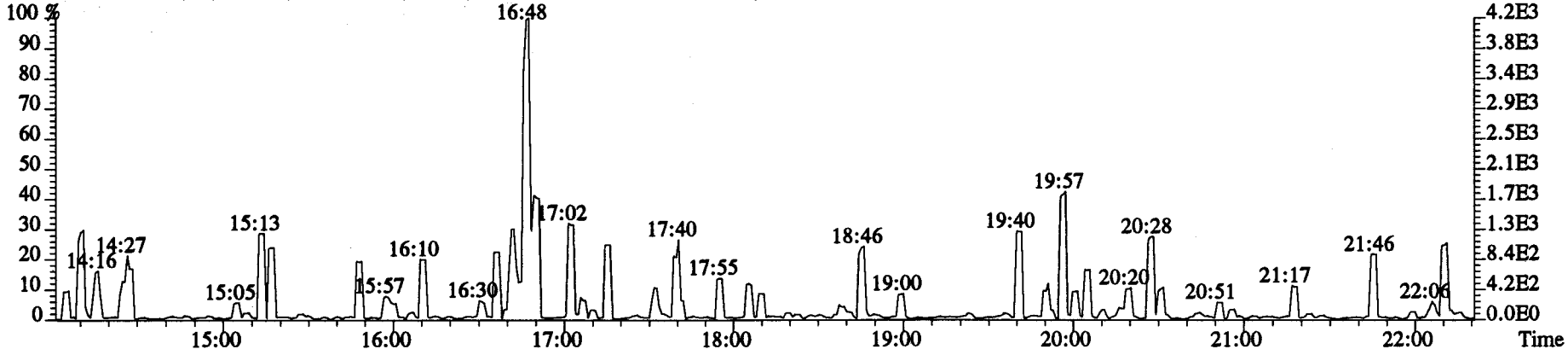
File:17FE104D5 #1-578 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN
339.8597 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)



341.8567 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)

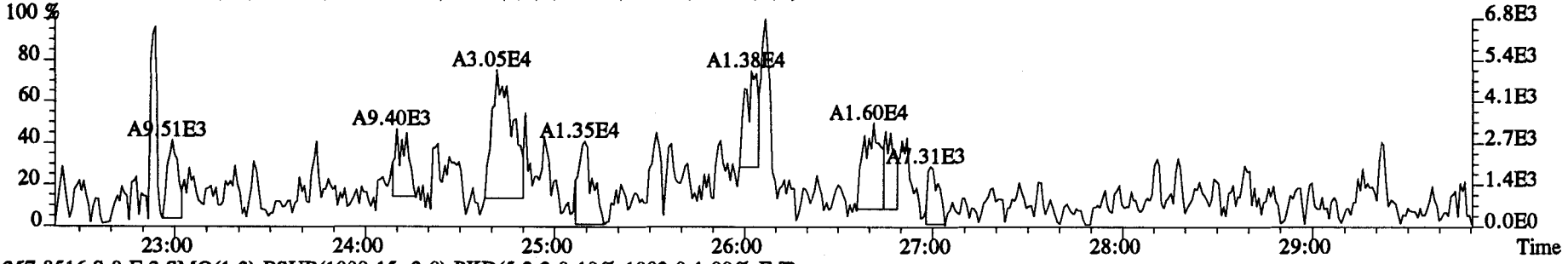


409.7974 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,40.0,1.00%,F,T)

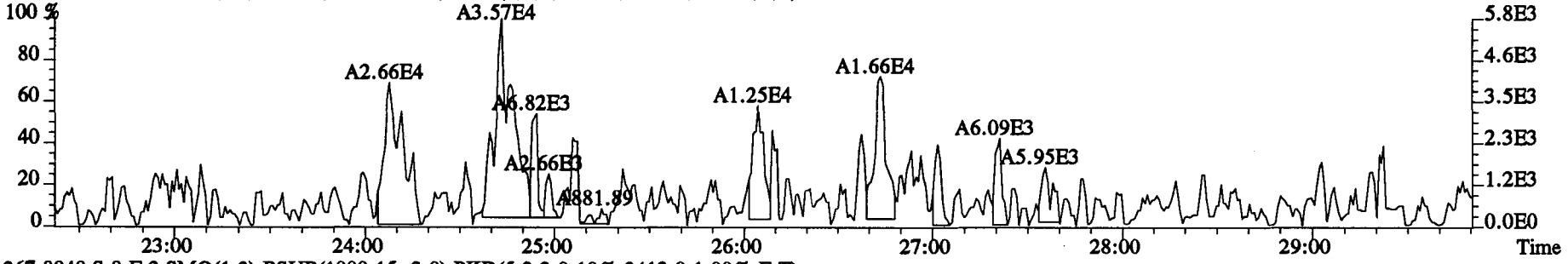


File:17FE104D5 #1-596 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN

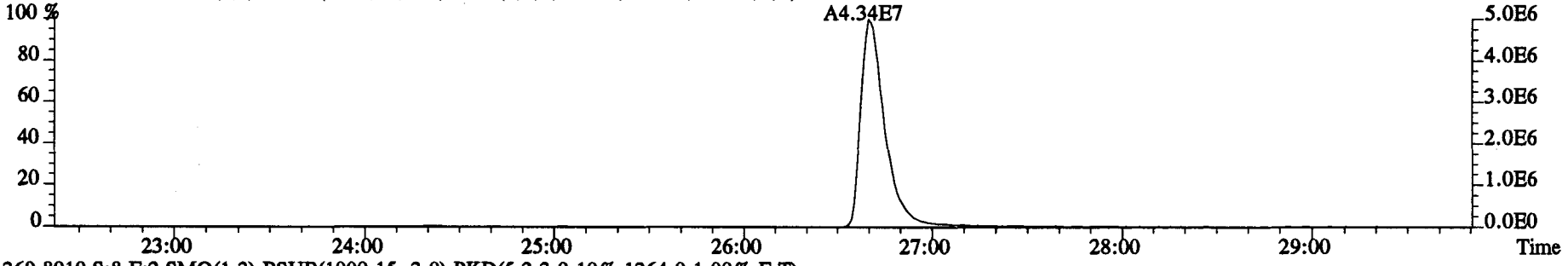
355.8546 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1632.0,1.00%,F,T)



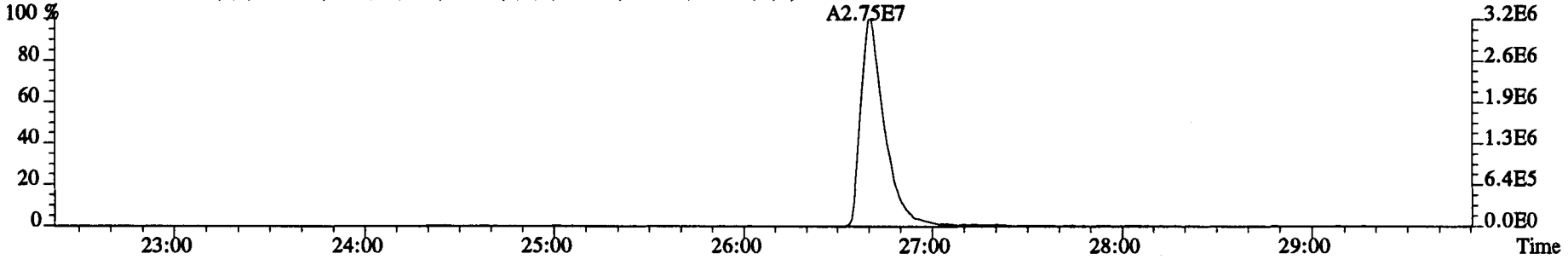
357.8516 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1092.0,1.00%,F,T)



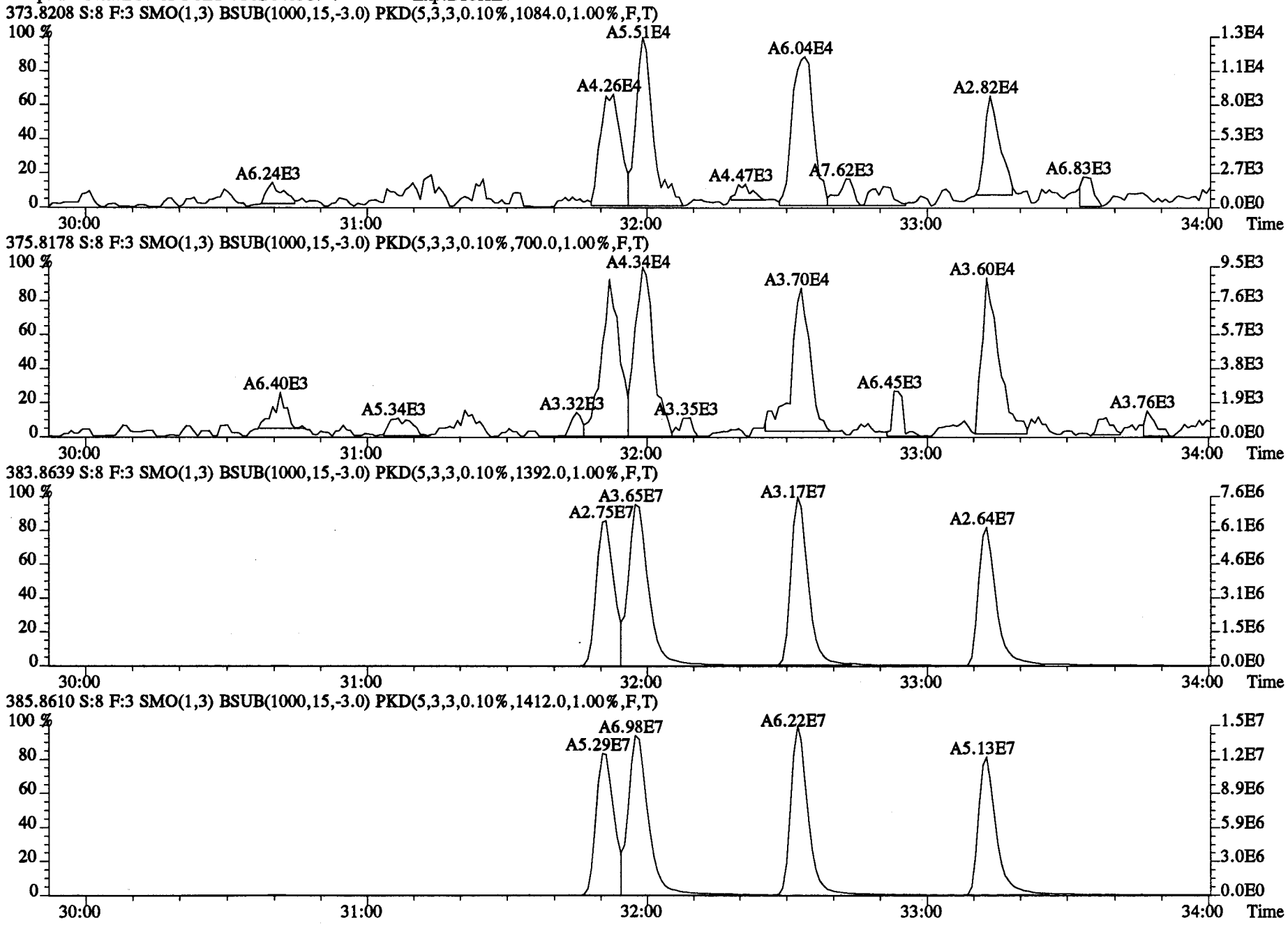
367.8949 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2412.0,1.00%,F,T)



369.8919 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1264.0,1.00%,F,T)

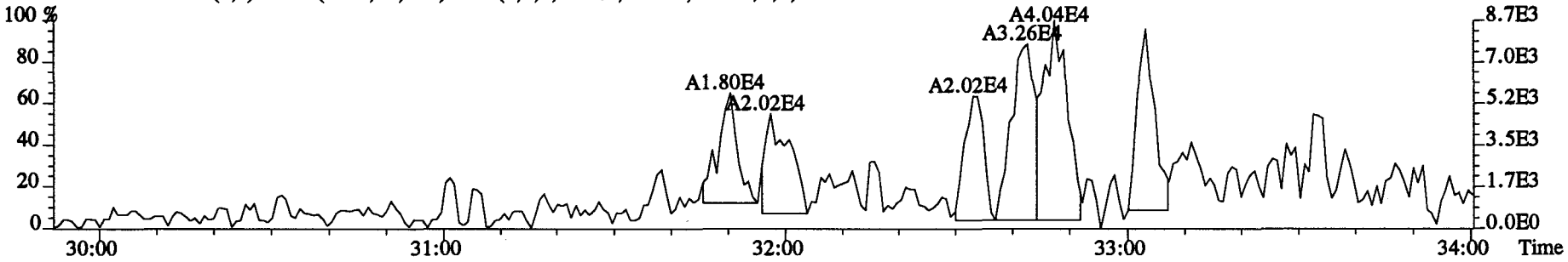


File:17FE104D5 #1-314 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN

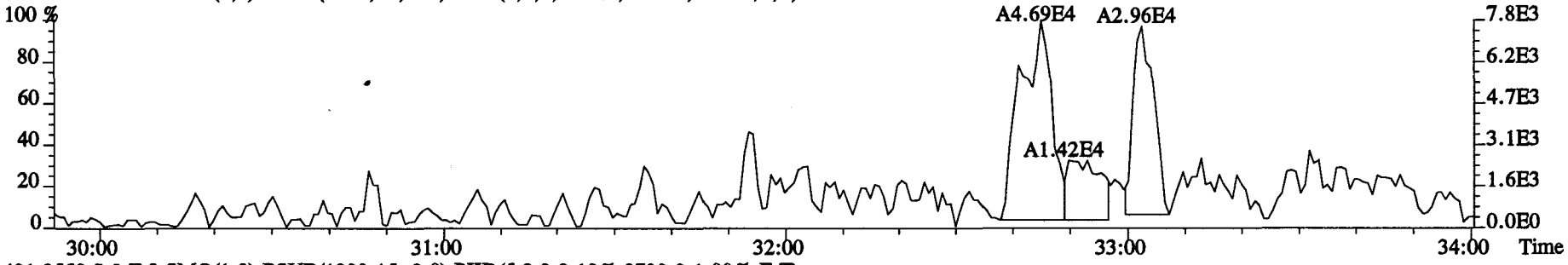


File:17FE104D5 #1-314 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN

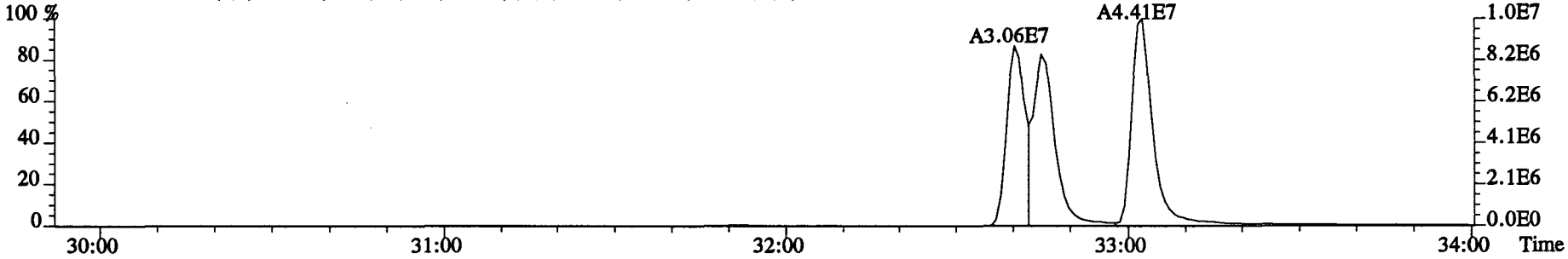
389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2160.0,1.00%,F,T)



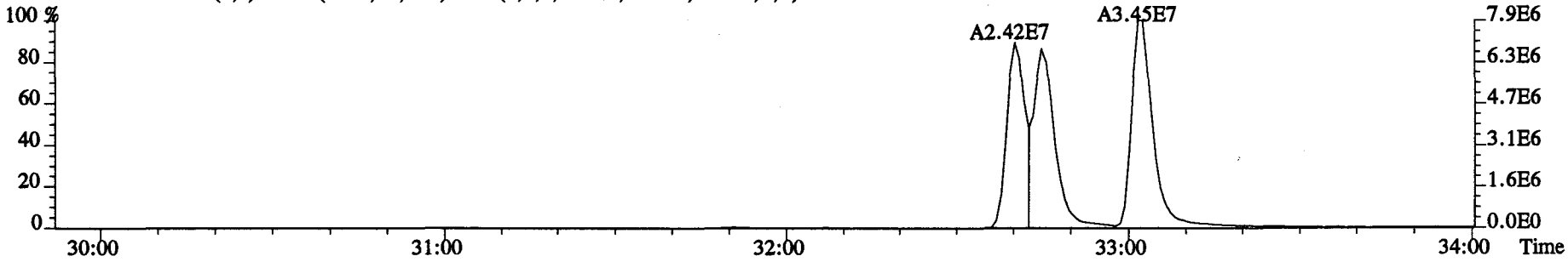
391.8127 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1844.0,1.00%,F,T)



401.8559 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2720.0,1.00%,F,T)

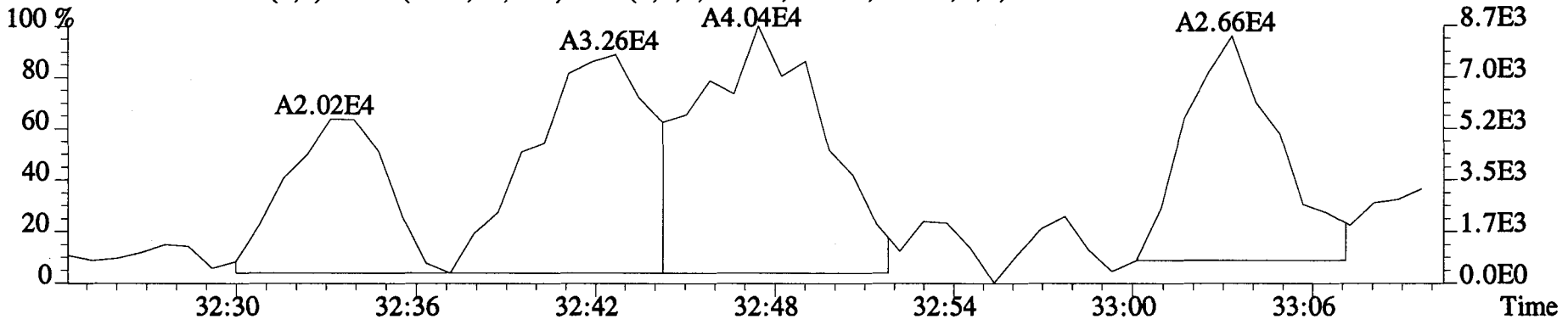


403.8529 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1488.0,1.00%,F,T)

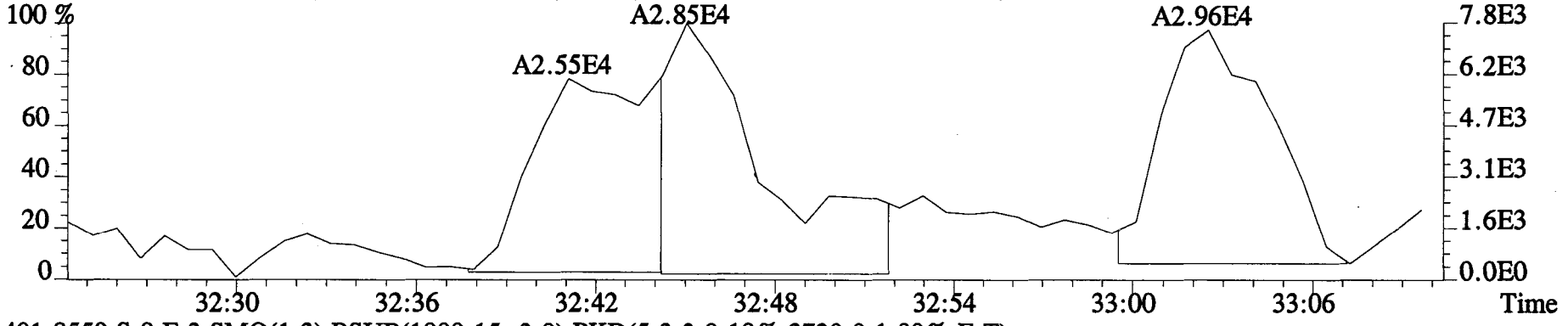


File:17FE104D5 #1-314 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN

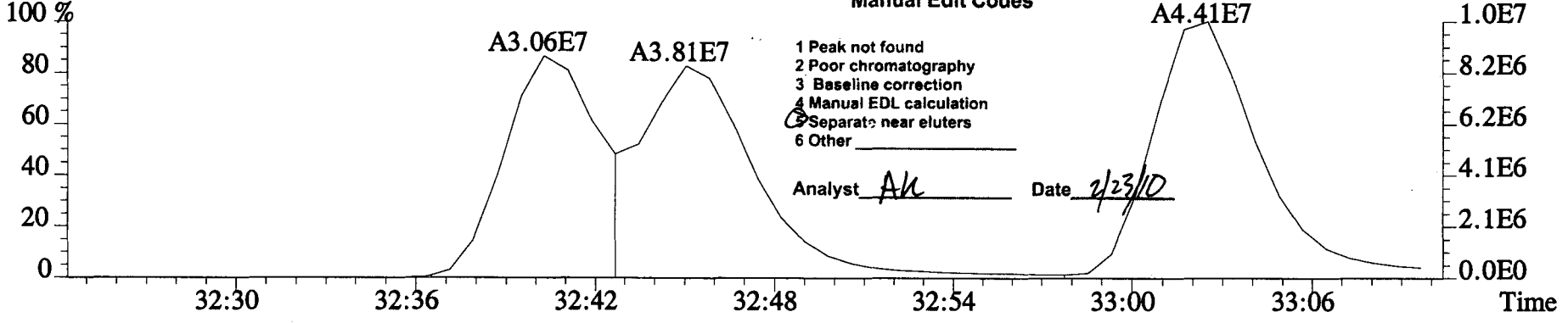
389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2160.0,1.00%,F,T)



391.8127 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1844.0,1.00%,F,T)



401.8559 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2720.0,1.00%,F,T)



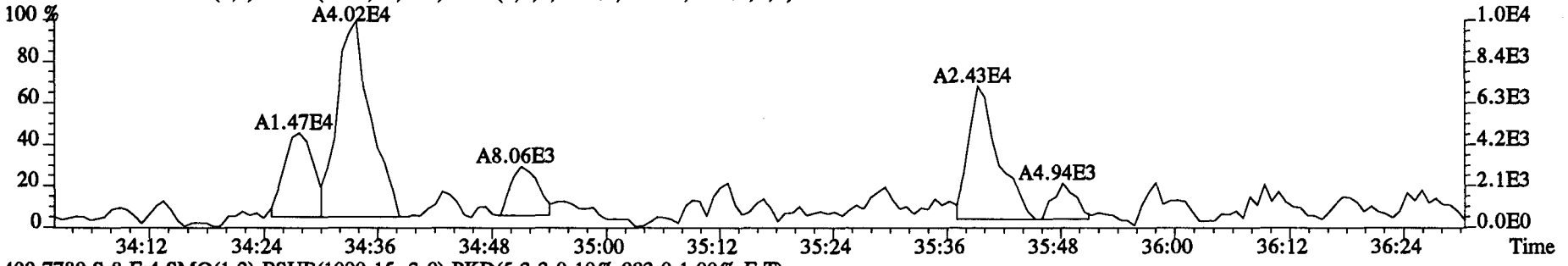
Manual Edit Codes

1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

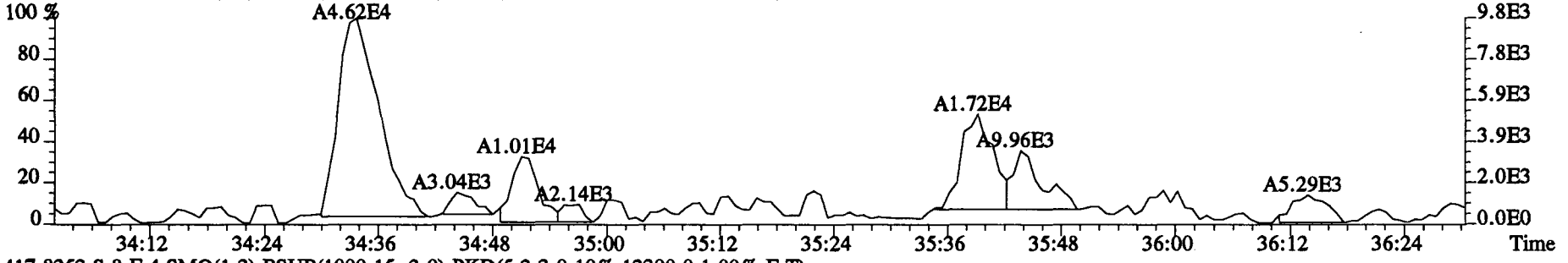
Analyst AK Date 2/23/10

File:17FE104D5 #1-198 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN

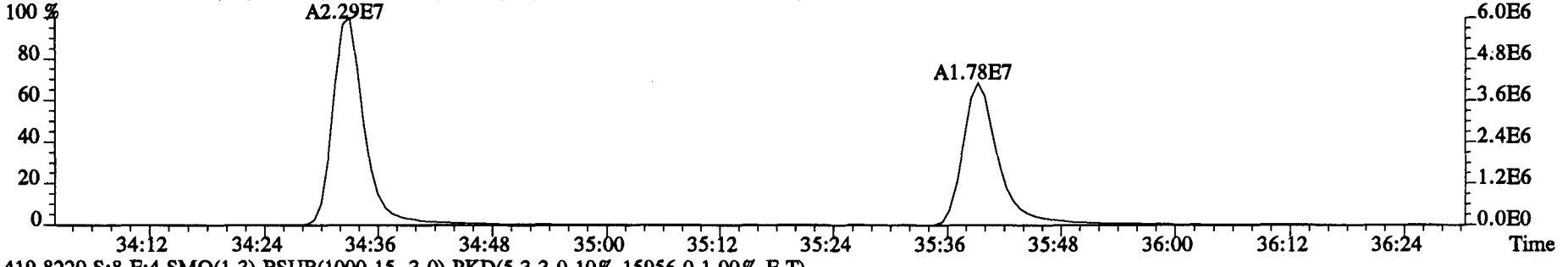
407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1500.0,1.00%,F,T)



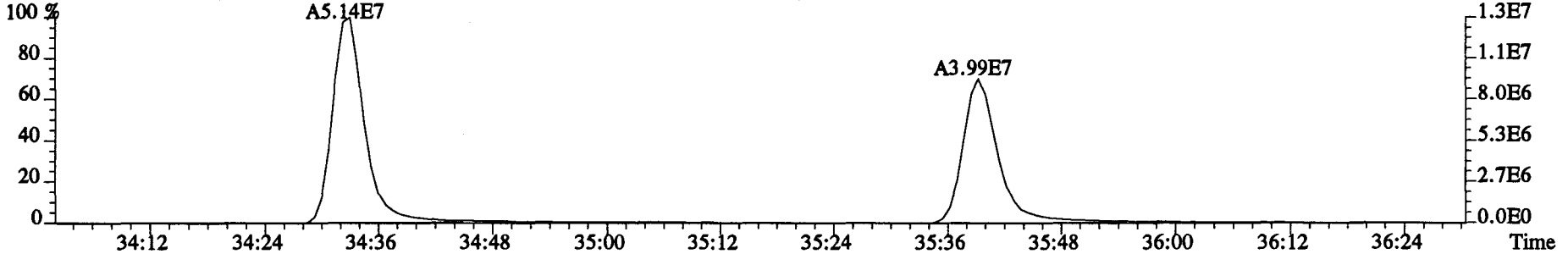
409.7789 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,992.0,1.00%,F,T)



417.8253 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12300.0,1.00%,F,T)

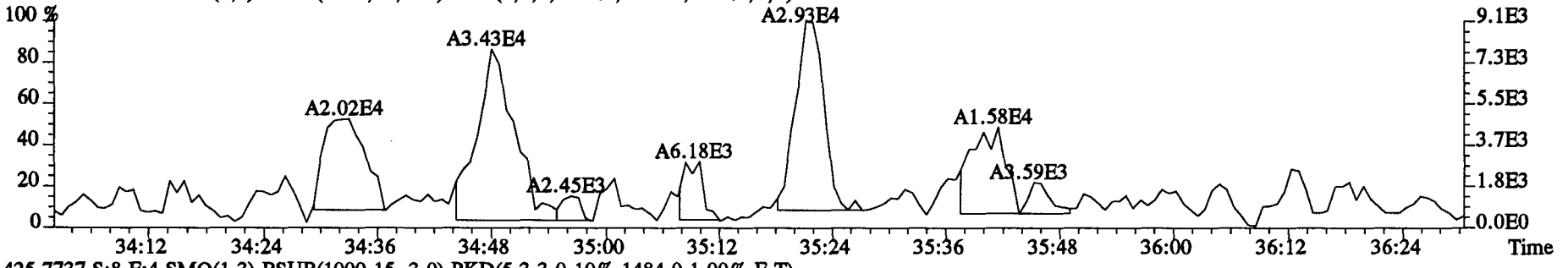


419.8220 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15956.0,1.00%,F,T)

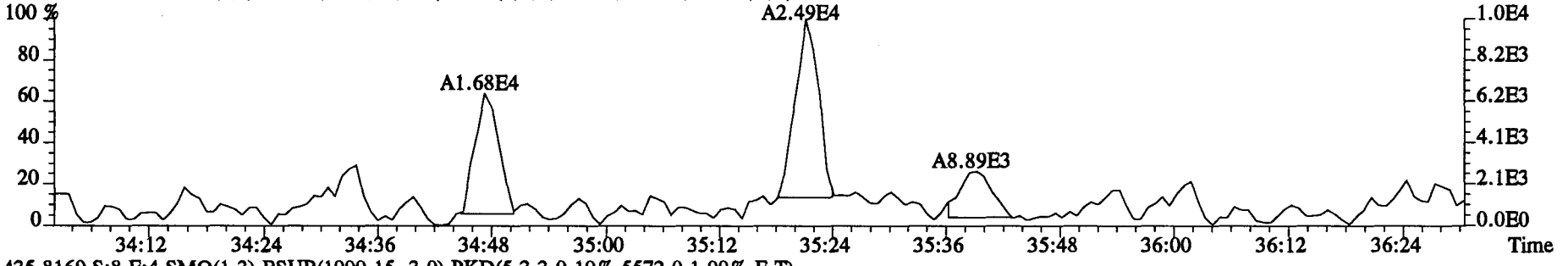


File:17FE104D5 #1-198 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN

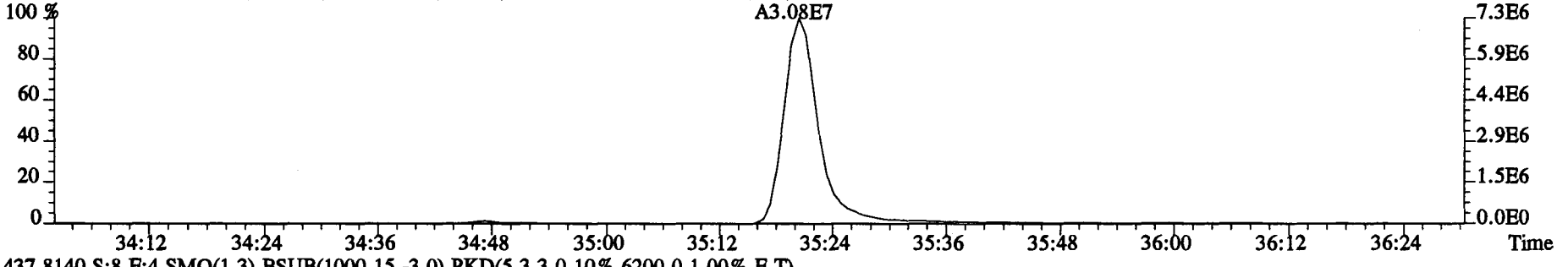
423.7766 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1648.0,1.00%,F,T)



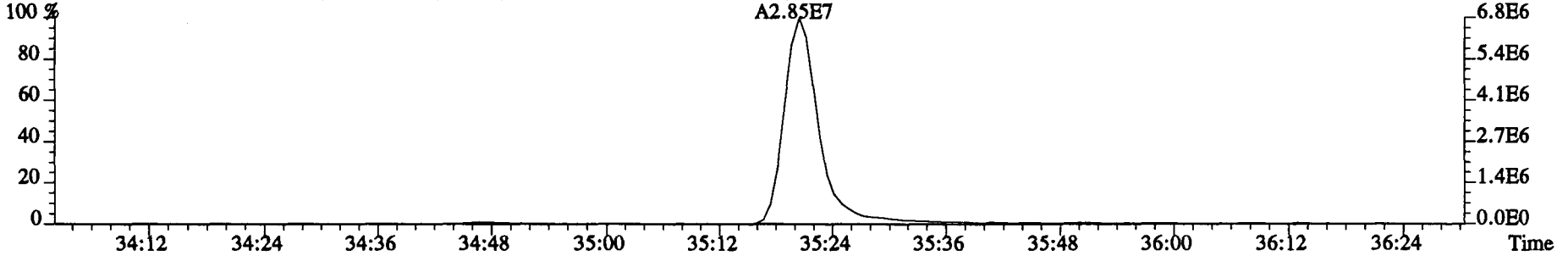
425.7737 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1484.0,1.00%,F,T)



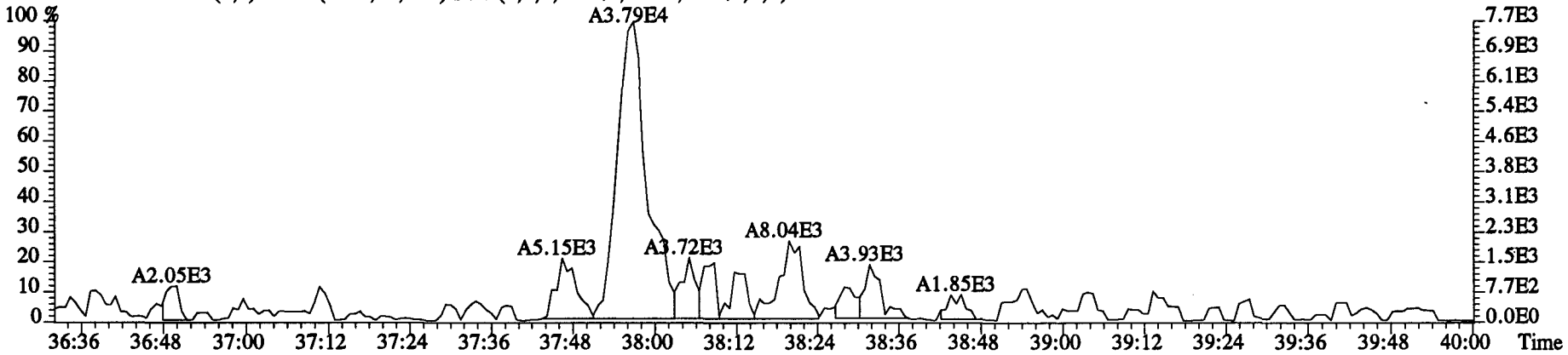
435.8169 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5572.0,1.00%,F,T)



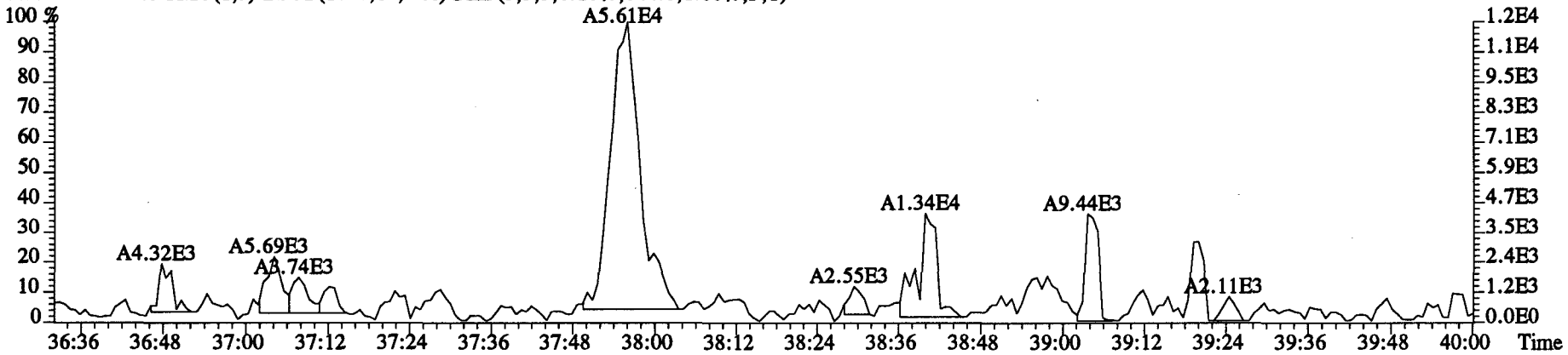
437.8140 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6200.0,1.00%,F,T)



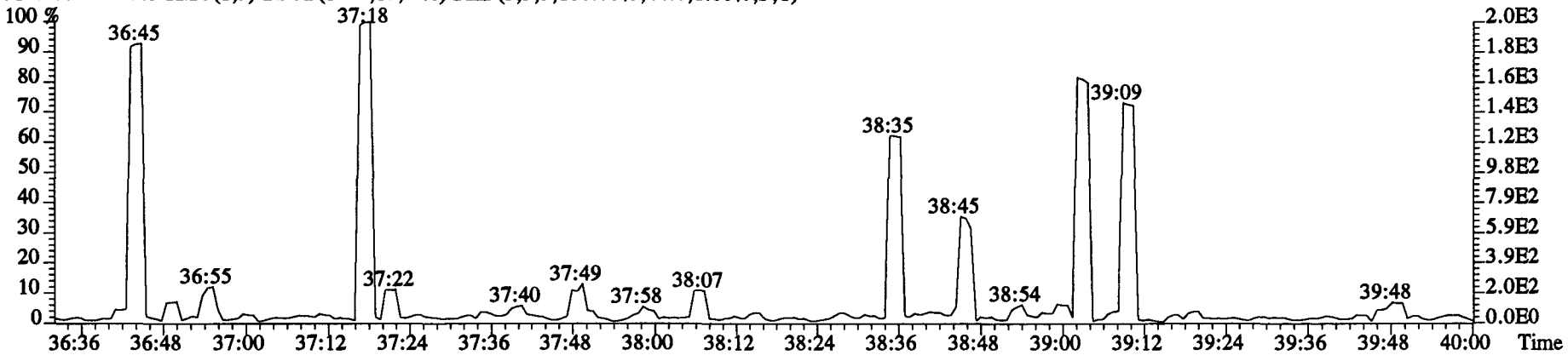
File:17FE104D5 #1-281 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN
441.7428 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,516.0,1.00%,F,T)



443.7399 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,844.0,1.00%,F,T)

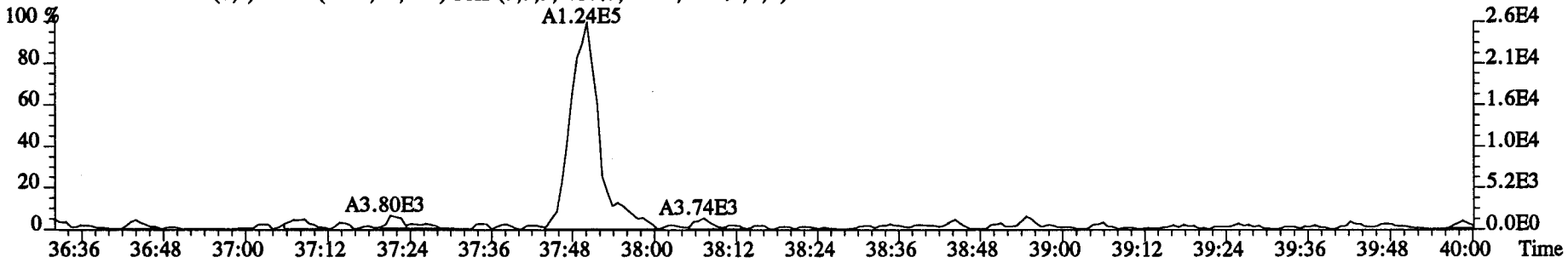


513.6775 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,44.0,1.00%,F,T)

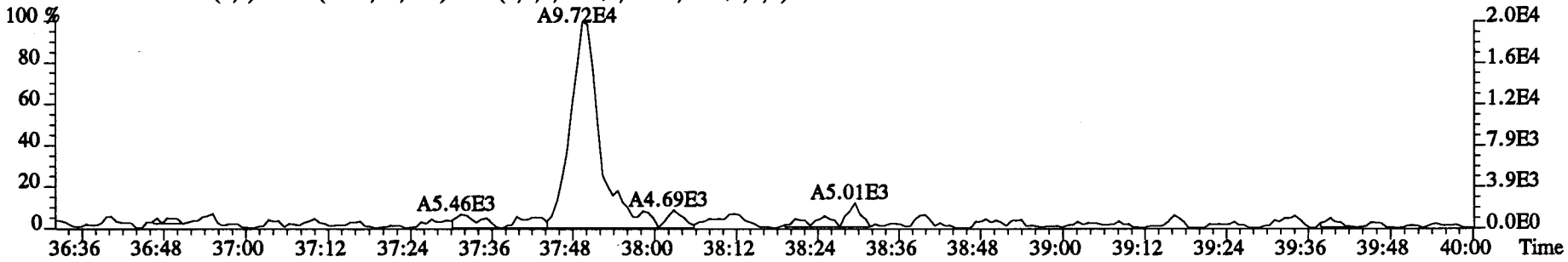


File:17FE104D5 #1-281 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN

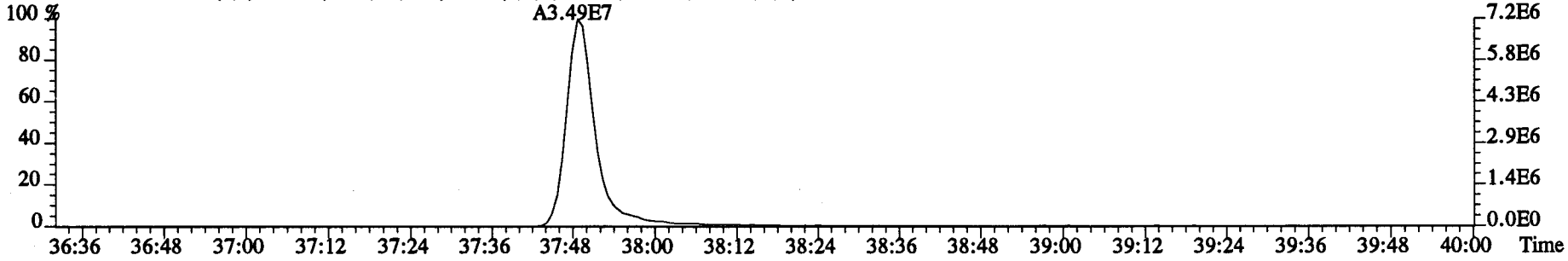
457.7377 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,648.0,1.00%,F,T)



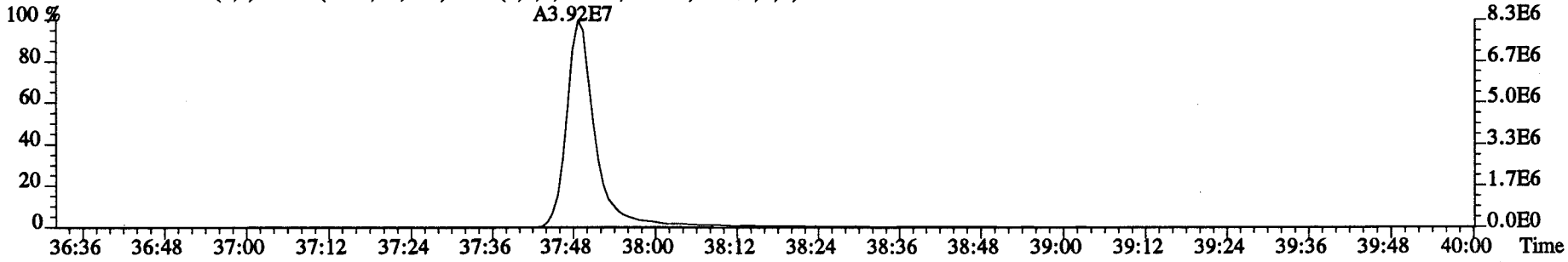
459.7348 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,756.0,1.00%,F,T)



469.7779 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2936.0,1.00%,F,T)

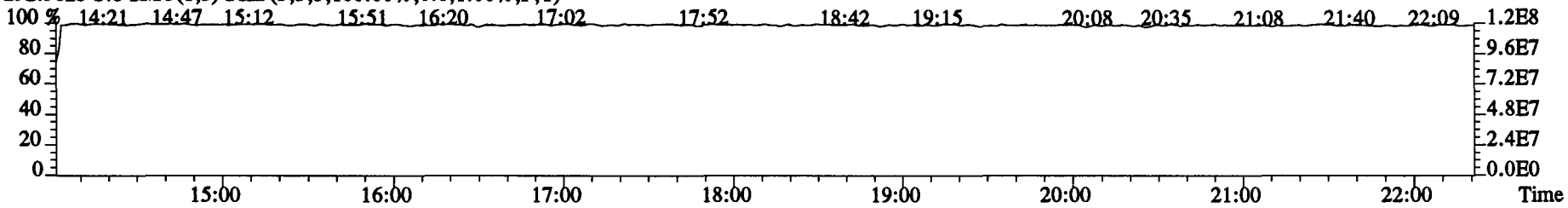


471.7750 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1840.0,1.00%,F,T)

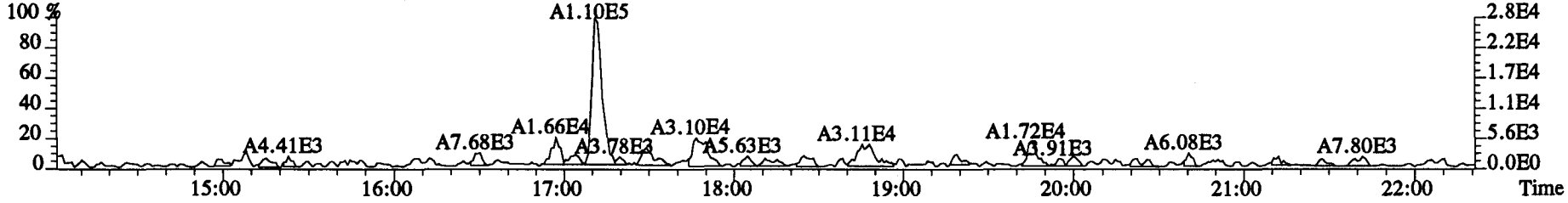


File:17FE104D5 #1-578 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN

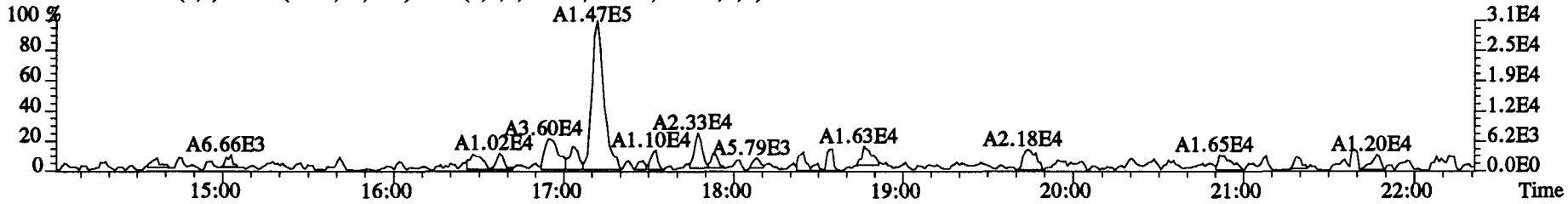
292.9825 S:8 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



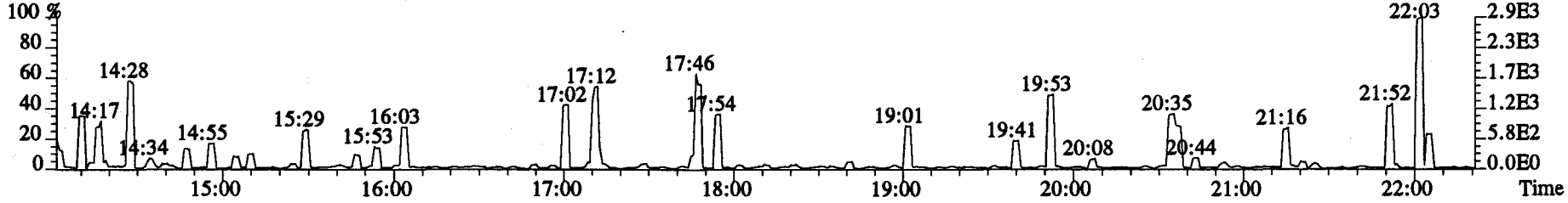
303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1044.0,1.00%,F,T)



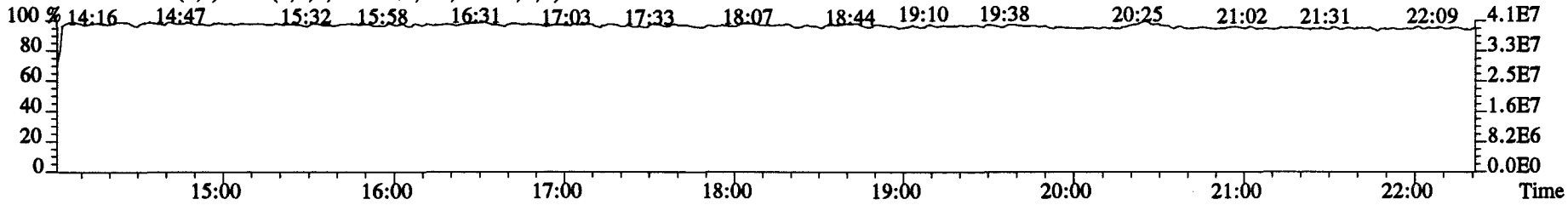
305.8987 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1624.0,1.00%,F,T)



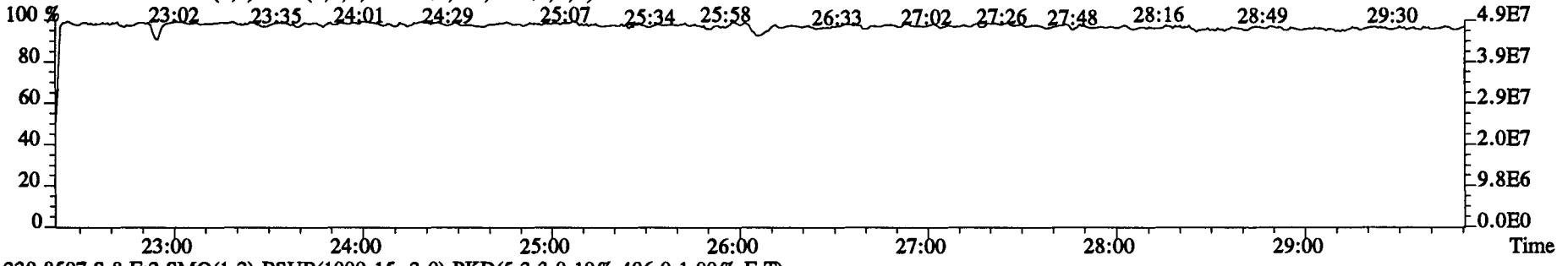
375.8364 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,40.0,1.00%,F,T)



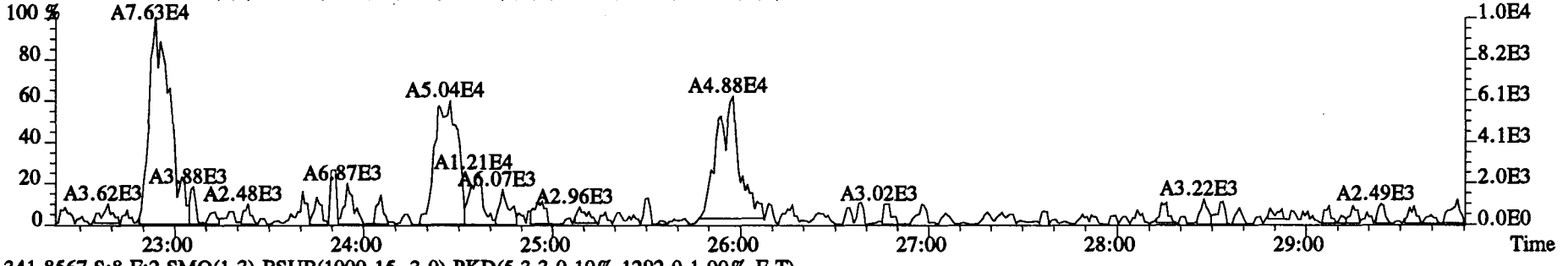
330.9792 S:8 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



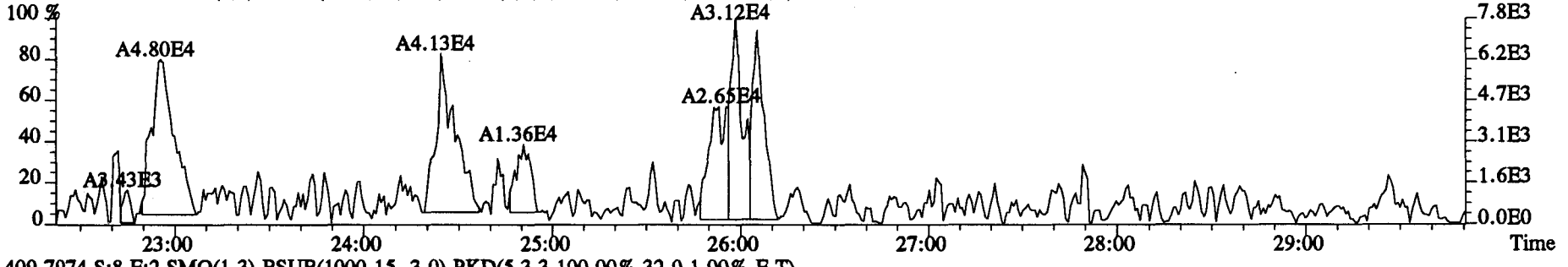
File:17FE104D5 #1-596 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN
342.9792 S:8 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



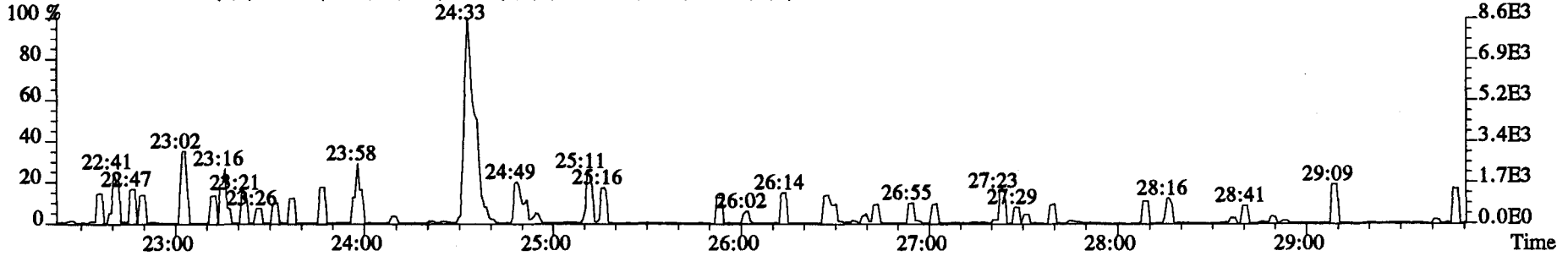
339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,496.0,1.00%,F,T)



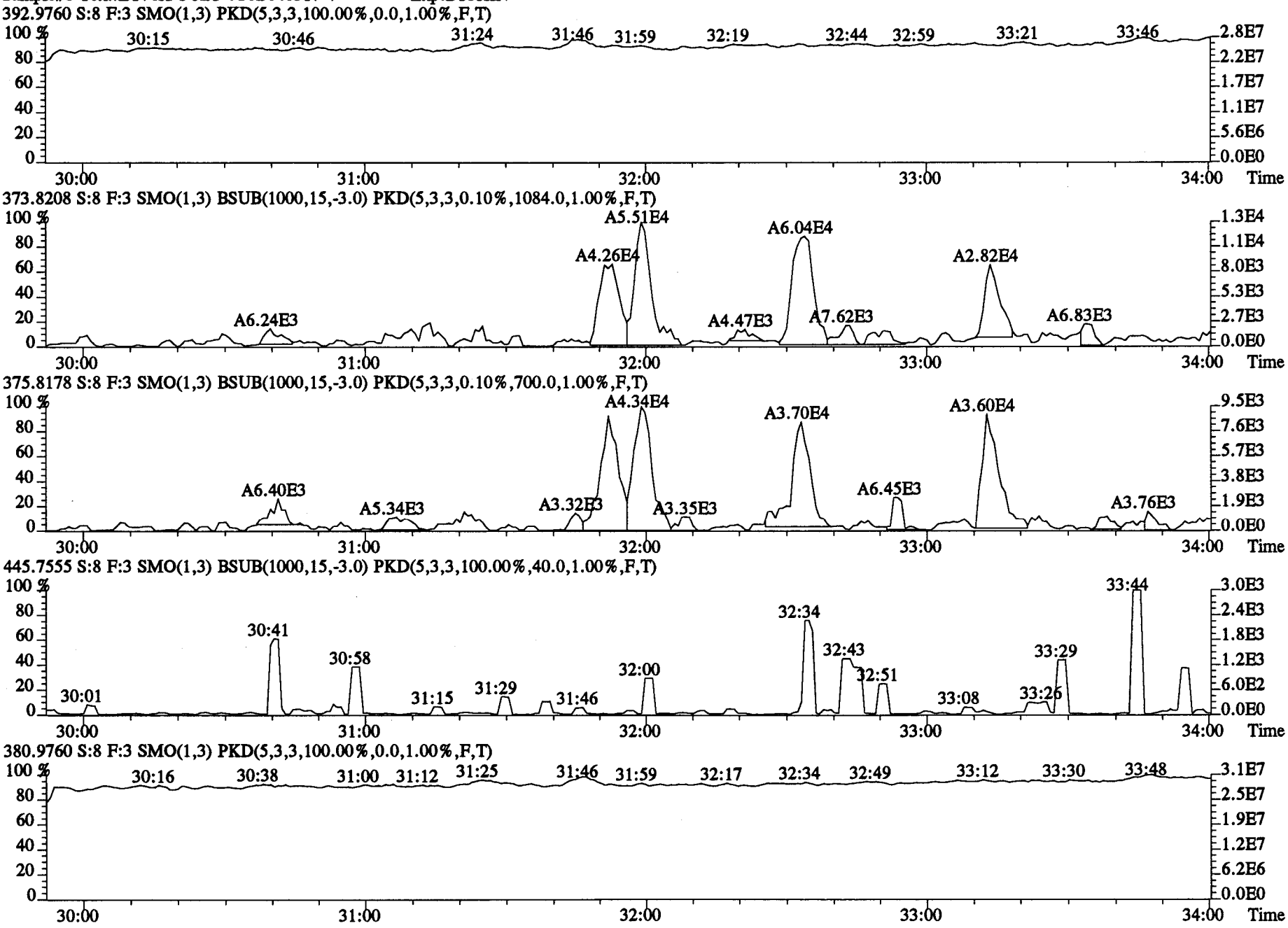
341.8567 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1292.0,1.00%,F,T)



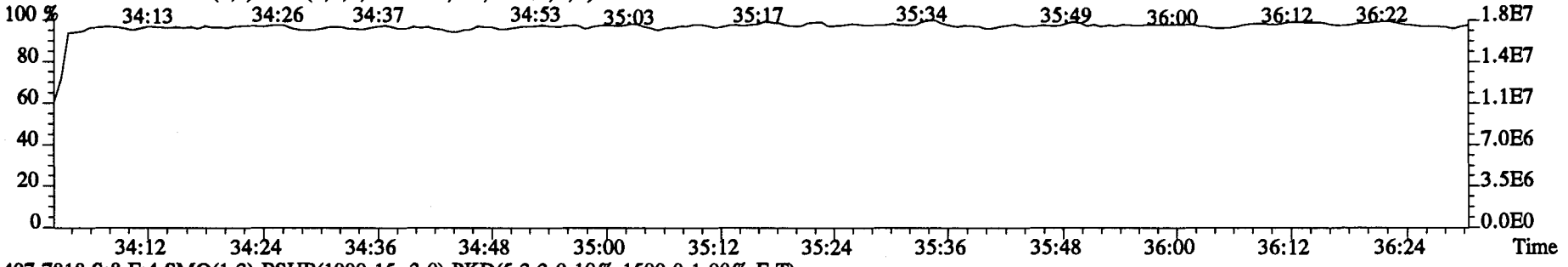
409.7974 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,32.0,1.00%,F,T)



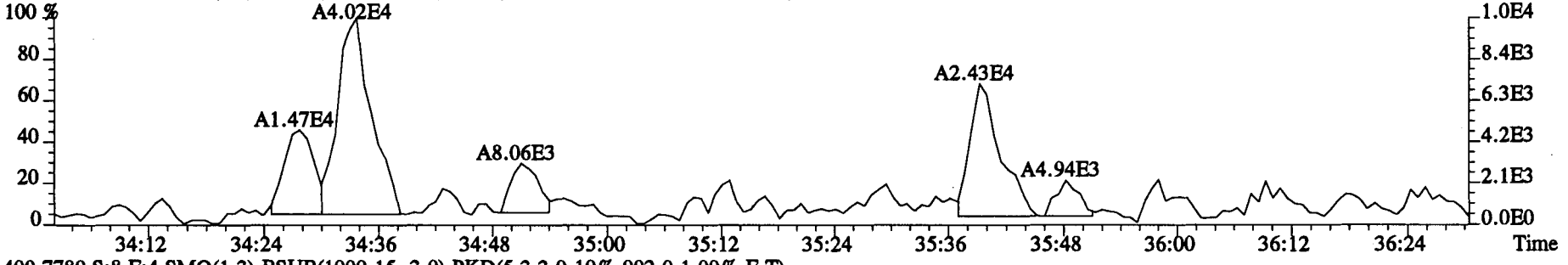
File:17FE104D5 #1-314 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN



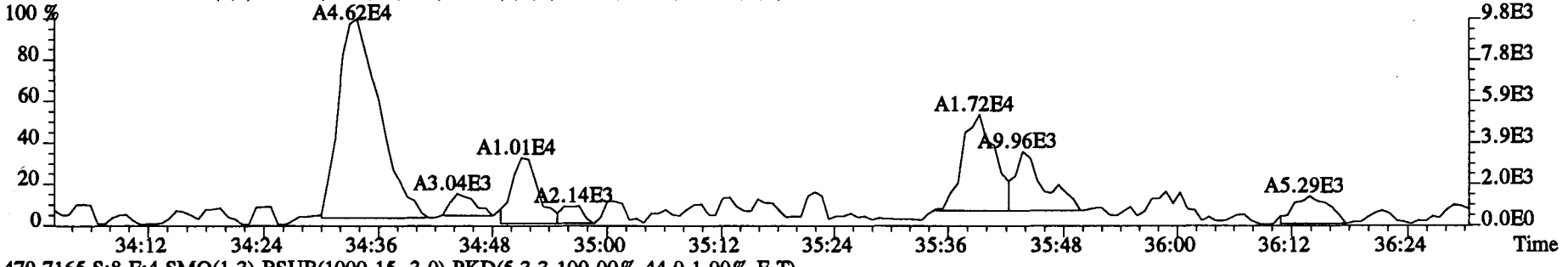
File:17FE104D5 #1-198 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN
430.9728 S:8 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



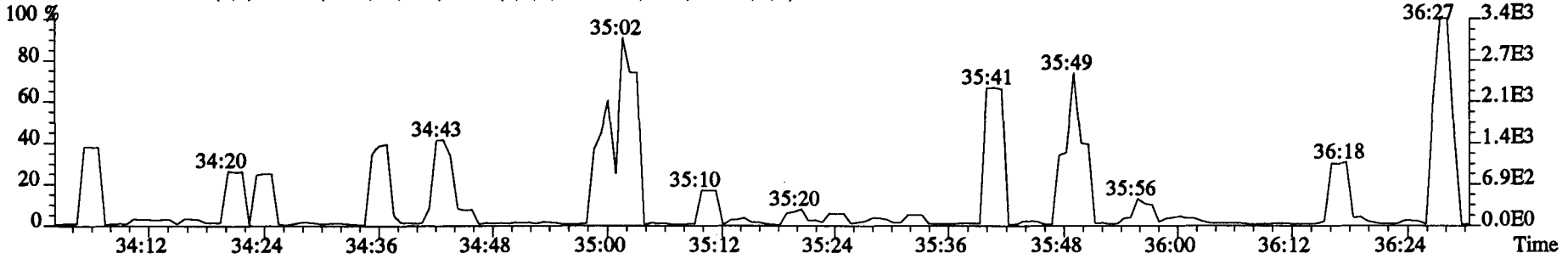
407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1500.0,1.00%,F,T)



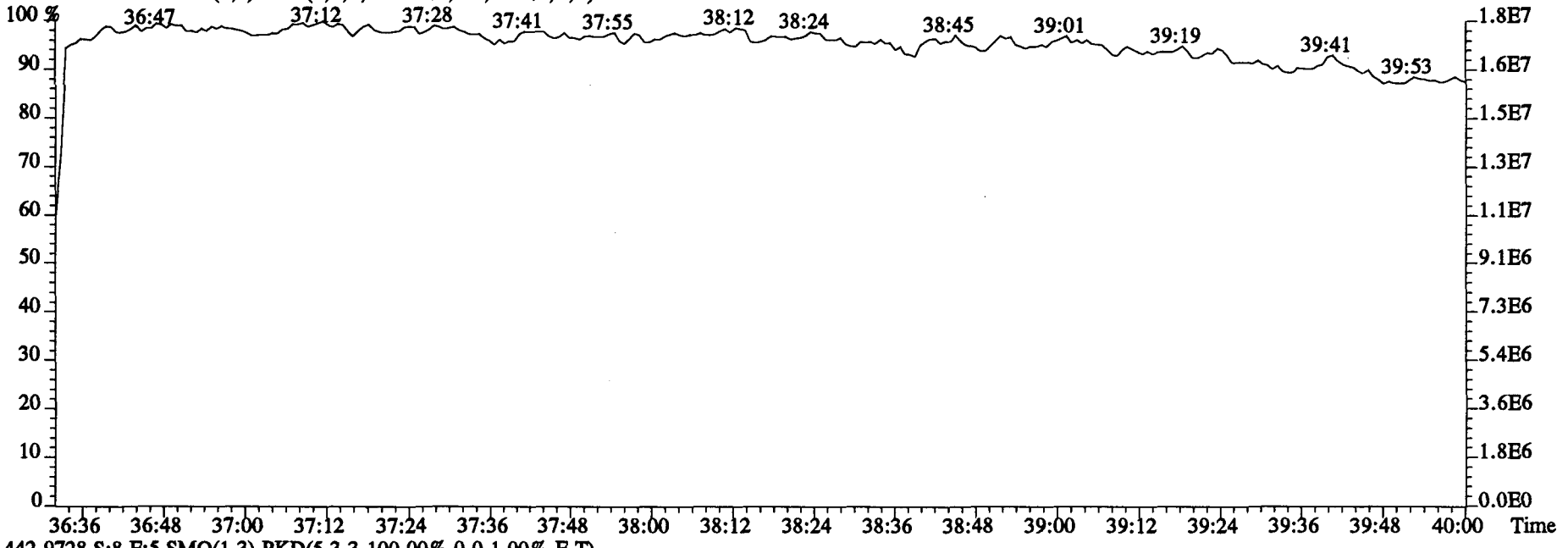
409.7789 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,992.0,1.00%,F,T)



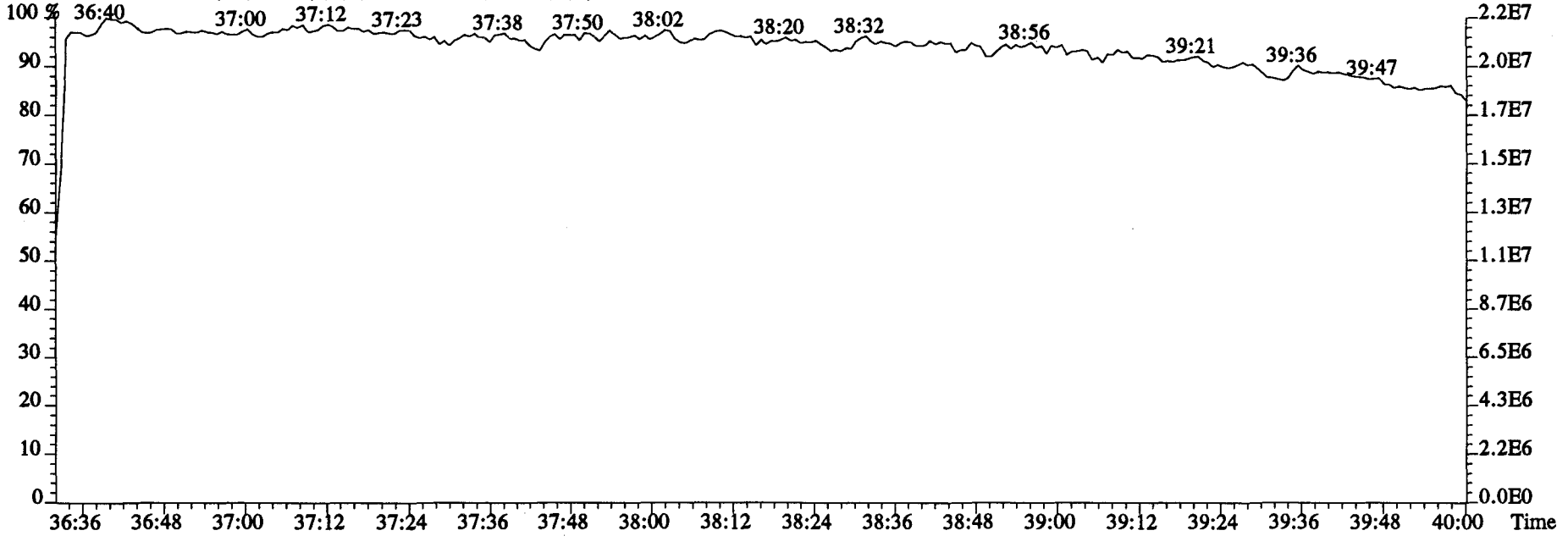
479.7165 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,44.0,1.00%,F,T)



File:17FE104D5 #1-281 Acq:17-FEB-2010 14:42:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:LT76X-1-AA :G0B040517-4 Exp:DIOXIN
454.9728 S:8 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:8 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: LT76X-1-ACS Sample text: LT76X-1-ACS :G0B040517-4S
Run #13 Filename: 17FE104D5 S: 9 I: 1 Results: 17FE104D58290
Acquired: 17-FEB-10 15:26:04 Processed: 17-FEB-10 19:35:02
Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.052000L

AK 2/23/10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	124112700	0.81	y	19:17	-	70.87	-	-	n
13C-2,3,7,8-TCDF	160709800	0.79	y	18:45	1.57	1567.53	1.02	82.5	n
2,3,7,8-TCDF	18557310	0.79	y	18:46	1.05	208.61	0.71	-	n
Total TCDF	19091673	0.72	y	17:00	1.05	214.62	0.71	-	n
13C-2,3,7,8-TCDD	98721600	0.80	y	19:32	1.00	1510.88	2.24	79.5	n
2,3,7,8-TCDD	11348620	0.75	y	19:33	1.05	207.35	1.20	-	n
Total TCDD	11367494	0.75	y	19:33	1.05	207.70	1.20	-	n
37Cl-2,3,7,8-TCDD	105802800	1.00	y	19:33	2.42	670.88	0.30	88.2	n
13C-1,2,3,7,8-PeCDF	111107400	1.56	y	24:22	1.34	1273.27	1.62	67.0	n
1,2,3,7,8-PeCDF	66994500	1.60	y	24:24	1.07	1071.81	2.04	-	n
2,3,4,7,8-PeCDF	61523500	1.51	y	25:51	1.04	1015.79	2.11	-	n
Total F2 PeCDF	129517412	1.25	n	22:52	1.05	2103.85	2.08	-	n
Total F1 PeCDF	85785	3.05	n	14:22	1.05	1.39	0.43	-	n
13C-1,2,3,7,8-PeCDD	66393100	1.57	y	26:38	0.81	1252.36	0.61	65.9	n
1,2,3,7,8-PeCDD	34163300	1.56	y	26:40	1.04	942.50	3.56	-	n
Total PeCDD	34315499	0.34	n	24:10	1.04	946.70	3.56	-	n
13C-1,2,3,7,8,9-HxCDD	79969200	1.27	y	33:02	-	46.60	-	-	n
13C-1,2,3,4,7,8-HxCDF	78524700	0.51	y	31:49	1.01	1840.00	0.79	96.8	n
1,2,3,4,7,8-HxCDF	53800100	1.23	y	31:50	1.24	1050.88	0.50	-	n
1,2,3,6,7,8-HxCDF	62126000	1.24	y	31:57	1.49	1009.35	0.42	-	n
2,3,4,6,7,8-HxCDF	56262600	1.27	y	32:32	1.34	1017.16	0.46	-	n
1,2,3,7,8,9-HxCDF	46359500	1.28	y	33:13	1.22	920.03	0.51	-	n
Total HxCDF	218623691	0.79	n	30:42	1.32	3998.81	0.47	-	n
13C-1,2,3,6,7,8-HxCDD	63751900	1.31	y	32:44	0.88	1714.74	0.04	90.2	n
1,2,3,4,7,8-HxCDD	29718400	1.26	y	32:40	0.90	981.86	1.57	-	n
1,2,3,6,7,8-HxCDD	38557400	1.29	y	32:45	1.19	966.21	1.19	-	n
1,2,3,7,8,9-HxCDD	37951100	1.25	y	33:02	1.16	977.58	1.22	-	n
Total HxCDD	106532032	1.35	y	32:08	1.08	2934.05	1.31	-	n
13C-1,2,3,4,6,7,8-HpCDF	70796700	0.44	y	34:32	0.94	1781.43	9.46	93.7	n
1,2,3,4,6,7,8-HpCDF	51885500	0.98	y	34:33	1.30	1072.68	3.23	-	n
1,2,3,4,7,8,9-HpCDF	40464100	0.97	y	35:39	1.10	986.44	3.81	-	n
Total HpCDF	93037698	0.98	y	34:33	1.20	2074.52	3.49	-	n
13C-1,2,3,4,6,7,8-HpCDD	58743100	1.05	y	35:20	0.79	1761.24	5.98	92.6	n
1,2,3,4,6,7,8-HpCDD	33847700	1.07	y	35:20	1.06	1037.34	4.39	-	n
Total HpCDD	34164302	0.88	y	34:48	1.06	1047.05	4.39	-	n
13C-OCDD	75105100	0.89	y	37:49	0.58	3068.23	4.62	80.7	n

OCDF	63548000	0.91	y	37:55	1.56	2065.40	2.45	-	n
OCDD	48666500	0.91	y	37:49	1.19	2065.04	2.80	-	n

Run Text: LT76X-1-ACS Sample text: LT76X-1-ACS :G0B040517-4S

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:8
Run: 13 File: 17FE104D5 S:9 Acq:17-FEB-10 15:26:04
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	225.78 of which	219.46 named and	6.32 unnamed
Conc:	214.62 of which	208.61 named and	6.01 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	17:00	0.72	y	0.59	21768	2.4	n	n
						30310	3.0	y	n
	2	17:13	1.12	n	0.63	35176	3.9	y	n
						31468	2.9	n	n
	3	17:47	1.96	n	0.53	51857	6.0	y	n
						26454	3.1	y	n
	4	18:23	0.98	n	1.57	77040	8.3	y	n
						78781	6.5	y	n
2,3,7,8-TCDF	5	18:46	0.79	y	208.61	8180010	983.7	y	n
						10377300	732.9	y	n
	6	19:09	0.62	n	0.99	38420	5.0	y	n
						62439	4.2	y	n
	7	19:15	0.62	n	0.91	35098	6.0	y	n
						56994	3.6	y	n
	8	19:41	0.85	y	0.80	32755	3.7	y	n
						38572	4.6	y	n

Run Text: LT76X-1-ACS Sample text: LT76X-1-ACS :G0B040517-4S

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:2
Run: 13 File: 17FE104D5 S:9 Acq:17-FEB-10 15:26:04
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	218.50 of which	218.13 named and	0.36 unnamed
Conc:	207.70 of which	207.35 named and	0.34 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
2,3,7,8-TCDD	1	19:33	0.75	y	207.35	4869310	461.1	y	n
						6479310	500.8	y	n
	2	19:58	0.12	n	0.34	8211	1.5	n	n
						66838	4.9	y	n

Run Text: LT76X-1-ACS Sample text: LT76X-1-ACS :G0B040517-4S

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:5
Run: 13 File: 17FE104D5 S:9 Acq:17-FEB-10 15:26:04
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2213.25 of which	2196.16 named and	17.09	unnamed
Conc:	2103.85 of which	2087.61 named and	16.24	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	22:52	1.25	n	4.67	174599	8.4	y	n
						139482	5.5	y	n
	2	23:44	1.46	y	1.82	66391	3.8	y	n
						45469	2.6	n	n
1,2,3,7,8-PeCDF	3	24:24	1.60	y	1071.81	41232500	1861.8	y	n
						25762000	1024.5	y	n
	4	24:59	3.31	n	9.76	779148	23.1	y	n
						235415	9.8	y	n
2,3,4,7,8-PeCDF	5	25:51	1.51	y	1015.79	37042500	1594.9	y	n
						24481000	893.2	y	n

Run Text: LT76X-1-ACS Sample text: LT76X-1-ACS :G0B040517-4S

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:12
Run: 13 File: 17FE104D5 S:9 Acq:17-FEB-10 15:26:04
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount: 1.47 of which * named and 1.47 unnamed
Conc: 1.39 of which * named and 1.39 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:22	3.05	n	0.03	2529	15.6	y	n
						828	0.3	n	n
	2	14:31	0.42	n	0.04	1471	10.9	y	n
						3515	1.1	n	n
	3	14:36	0.02	n	0.00	60	0.4	n	n
						3515	1.1	n	n
	4	15:12	0.32	n	0.05	1988	9.2	y	n
						6171	1.4	n	n
	5	15:47	0.42	n	0.06	2415	11.3	y	n
						5815	1.3	n	n
	6	16:29	0.26	n	0.28	10648	45.4	y	n
						40543	8.1	y	n
	7	16:41	0.92	n	0.13	5041	18.9	y	n
						5468	1.4	n	n
	8	17:18	0.26	n	0.04	1391	10.8	y	n
						5271	1.4	n	n
	9	17:25	0.24	n	0.03	1278	6.7	y	n
						5271	1.4	n	n
	10	19:37	0.73	n	0.14	5221	29.6	y	n
						7176	1.2	n	n
	11	20:25	0.29	n	0.35	13151	47.1	y	n
						45122	6.5	y	n
	12	21:08	2.74	n	0.22	14499	45.9	y	n
						5287	1.3	n	n

Run Text: LT76X-1-ACS Sample text: LT76X-1-ACS :G0B040517-4S

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:4
Run: 13 File: 17FE104D5 S:9 Acq:17-FEB-10 15:26:04
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount: 995.92 of which 991.51 named and 4.42 unnamed

Conc: 946.70 of which 942.50 named and 4.20 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	24:10	0.34	n	0.69	15270	1.6	n	n
						44530	3.5	y	n
	2	24:43	2.88	n	2.58	105641	4.6	y	n
						36672	3.8	y	n
1,2,3,7,8-PeCDD	3	26:40	1.56	y	942.50	20828500	798.9	y	n
						13334800	599.1	y	n
	4	27:55	1.13	n	0.93	20402	1.9	n	n
						18086	2.7	n	n

Totals Results TestAmerica West Sacramento Page 6 of 9

Run Text: LT76X-1-ACS Sample text: LT76X-1-ACS :G0B040517-4S

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:5
Run: 13 File: 17FE104D5 S:9 Acq:17-FEB-10 15:26:04
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount: 4206.75 of which 4205.30 named and 1.45 unnamed
Conc: 3998.81 of which 3997.43 named and 1.38 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	30:42	0.79	n	1.38	41790	18.1	y	n
						52898	8.3	y	n
1,2,3,4,7,8-HxCDF	2	31:50	1.23	y	1050.88	29656600	11872.3	y	n
						24143500	3736.4	y	n
1,2,3,6,7,8-HxCDF	3	31:57	1.24	y	1009.35	34430500	11790.7	y	n
						27695500	3694.8	y	n
2,3,4,6,7,8-HxCDF	4	32:32	1.27	y	1017.16	31463700	12647.5	y	n
						24798900	3996.7	y	n
1,2,3,7,8,9-HxCDF	5	33:13	1.28	y	920.03	25986900	10256.2	y	n
						20372600	3058.6	y	n

Run Text: LT76X-1-ACS Sample text: LT76X-1-ACS :G0B040517-4S

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:5
Run: 13 File: 17FE104D5 S:9 Acq:17-FEB-10 15:26:04
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	3086.62 of which	3077.79 named and	8.84	unnamed	
Conc:	2934.05 of which	2925.65 named and	8.40	unnamed	

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	32:08	1.35	y	1.47	30718	3.7	y	n
						22730	4.1	y	n
1,2,3,4,7,8-HxCDD	2	32:40	1.26	y	981.86	16548600	2538.3	y	n
						13169800	2176.6	y	n
1,2,3,6,7,8-HxCDD	3	32:45	1.29	y	966.21	21722600	2600.9	y	n
						16834800	2223.7	y	n
1,2,3,7,8,9-HxCDD	4	33:02	1.25	y	977.58	21109400	2570.0	y	n
						16841700	2220.9	y	n
	5	33:29	2.41	n	6.93	270275	18.7	y	n
						112359	12.6	y	n

Run Text: LT76X-1-ACS Sample text: LT76X-1-ACS :G0B040517-4S

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:3
Run: 13 File: 17FE104D5 S:9 Acq:17-FEB-10 15:26:04
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2182.39 of which	2166.20 named and	16.20	unnamed	
Conc:	2074.52 of which	2059.12 named and	15.40	unnamed	

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:33	0.98	y	1072.68	25660600	895.5	y	n
						26224900	1025.2	y	n
	2	34:52	1.24	n	15.40	419454	8.5	y	n
						337303	13.2	y	n
1,2,3,4,7,8,9-HpCDF	3	35:39	0.97	y	986.44	19895000	617.5	y	n
						20569100	735.3	y	n

Run Text: LT76X-1-ACS Sample text: LT76X-1-ACS :G0B040517-4S

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:2
Run: 13 File: 17FE104D5 S:9 Acq:17-FEB-10 15:26:04

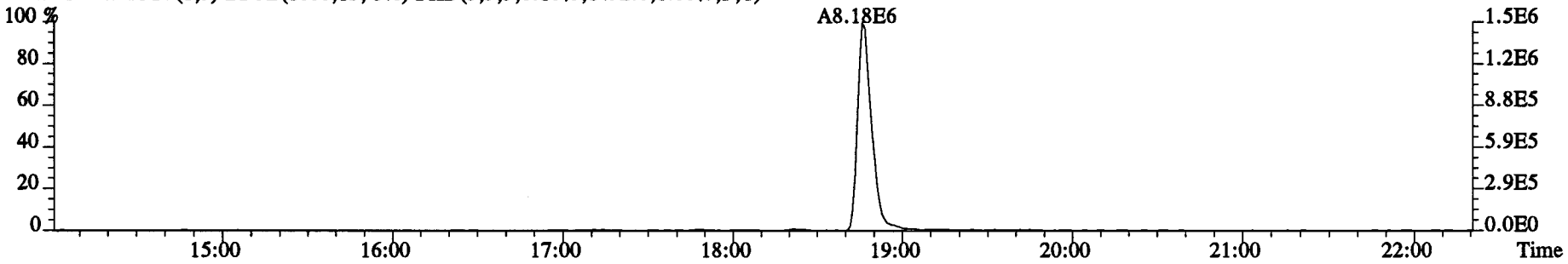
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1101.49	of which	1091.28	named and	10.21	unnamed
Conc:	1047.05	of which	1037.34	named and	9.70	unnamed

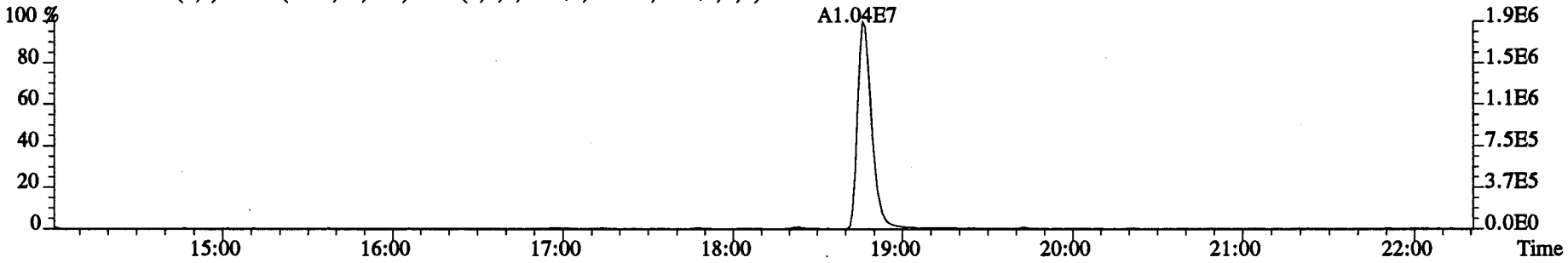
Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	34:48	0.88	y	9.70	148626	6.7	y	n
						167976	11.6	y	n
1,2,3,4,6,7,8-HpCDD	2	35:20	1.07	y	1037.34	17457500	571.7	y	n
						16390200	915.3	y	n

File:17FE104D5 #1-578 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN

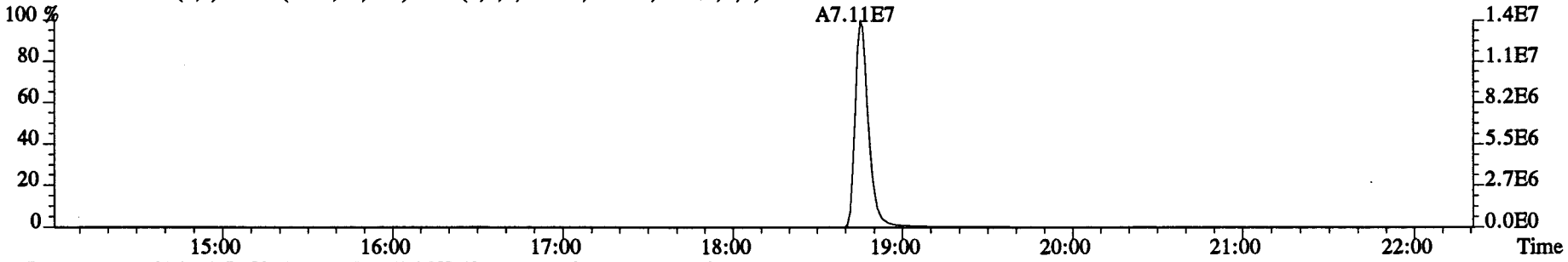
303.9016 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1492.0,1.00%,F,T)



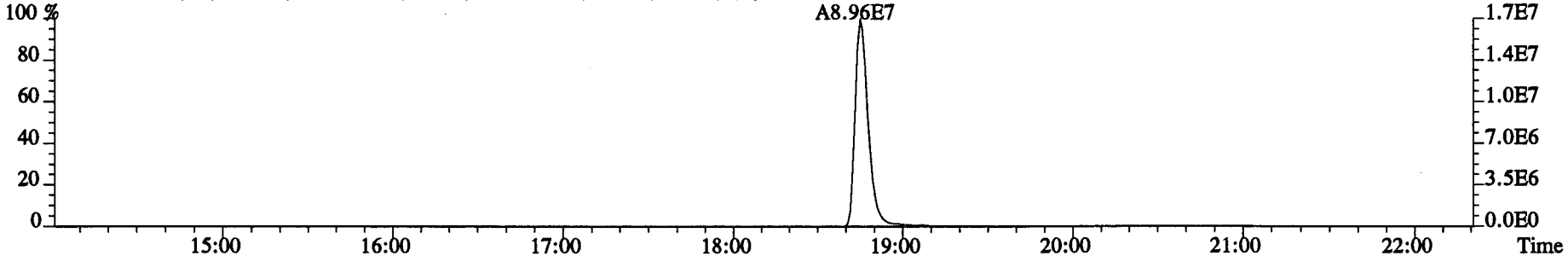
305.8987 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2548.0,1.00%,F,T)



315.9419 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3500.0,1.00%,F,T)

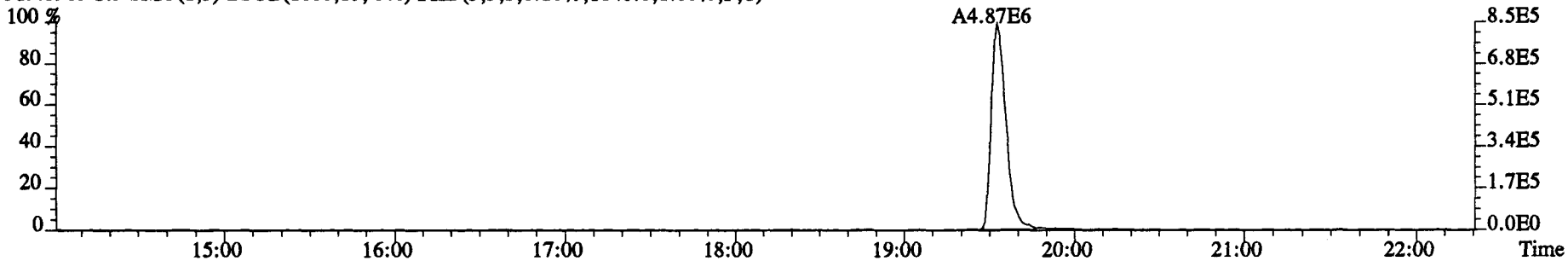


317.9389 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3328.0,1.00%,F,T)

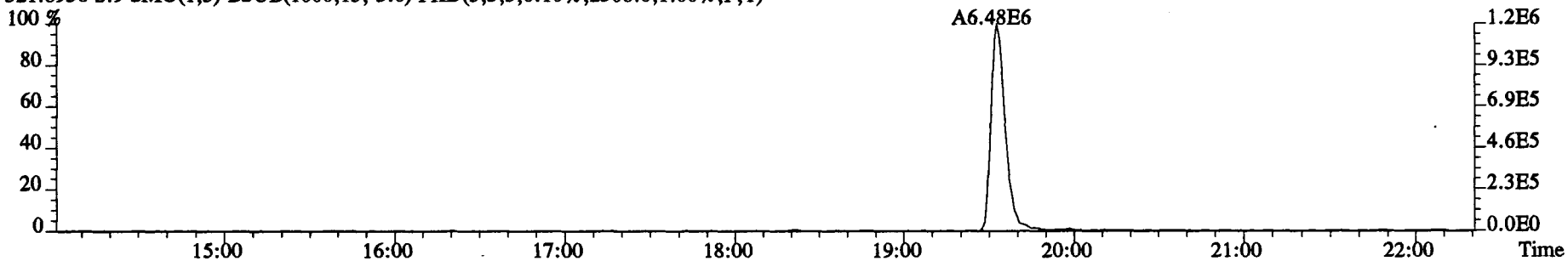


File:17FE104D5 #1-578 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN

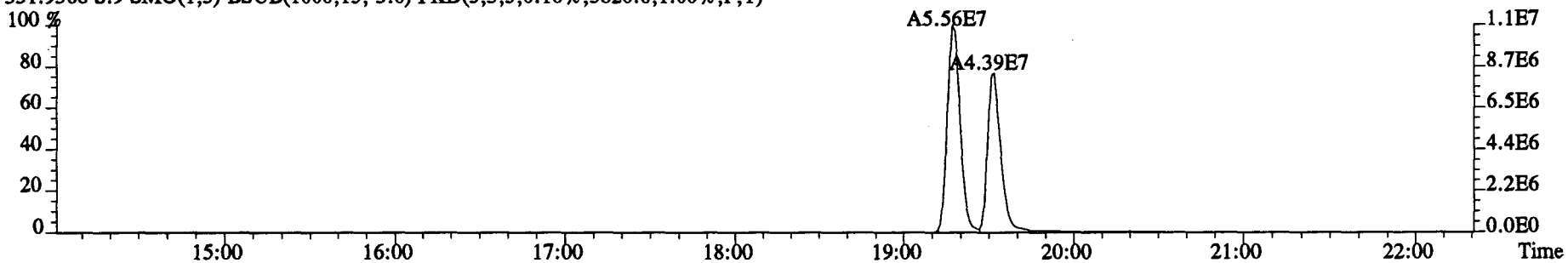
319.8965 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1840.0,1.00%,F,T)



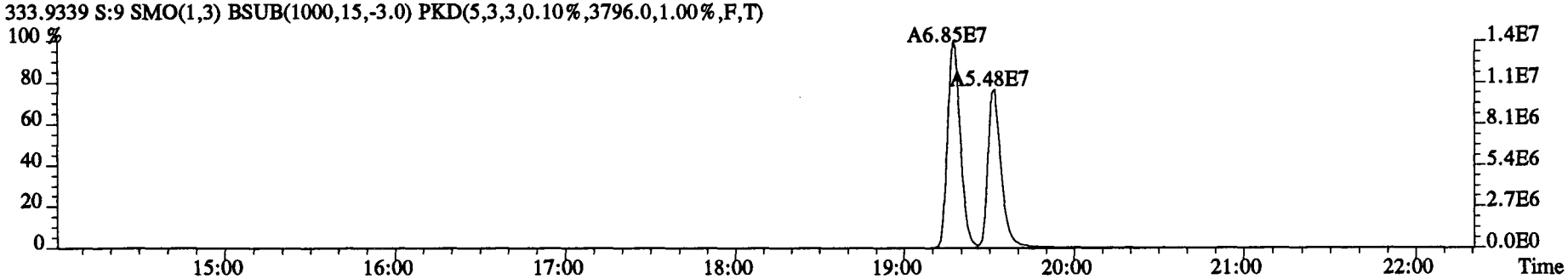
321.8936 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2308.0,1.00%,F,T)



331.9368 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5820.0,1.00%,F,T)

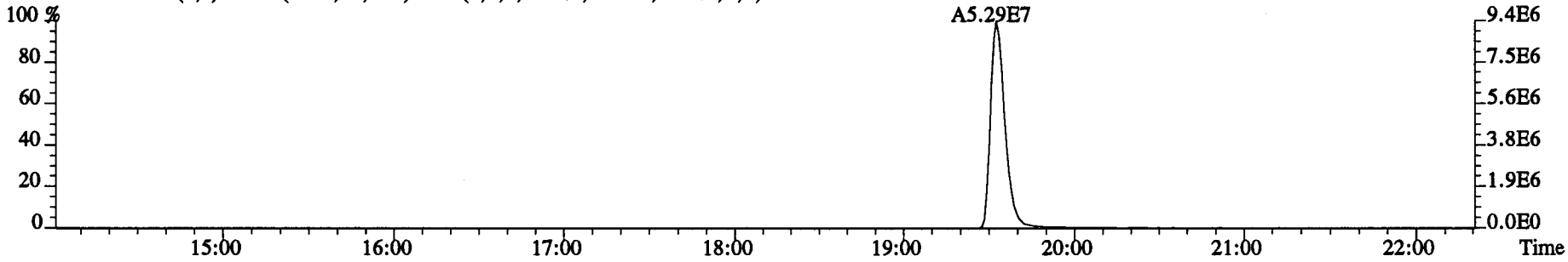


333.9339 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3796.0,1.00%,F,T)

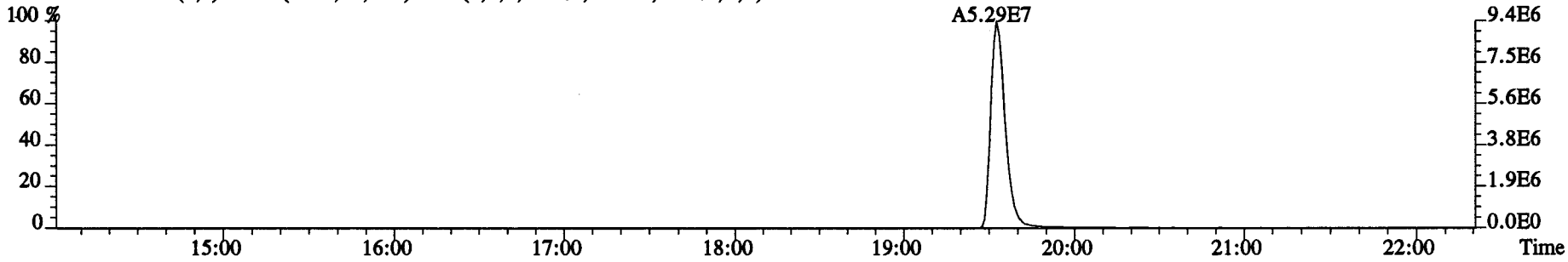


File:17FE104D5 #1-578 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S · Exp:DIOXIN

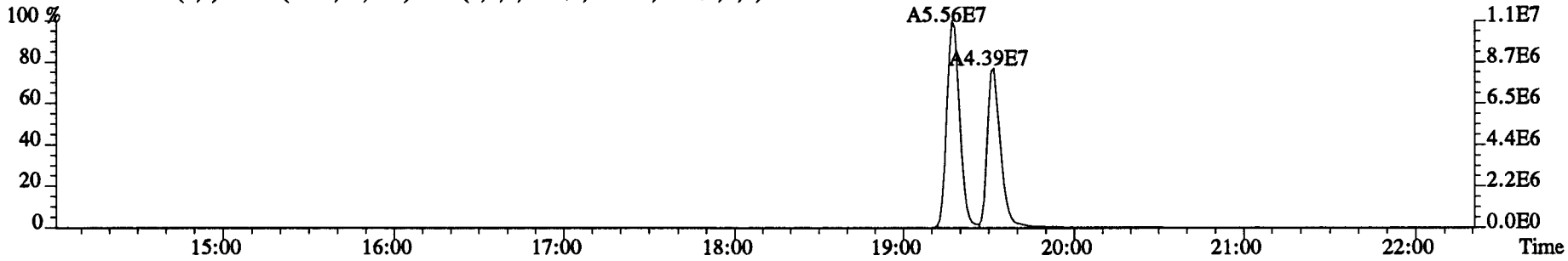
327.8847 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1548.0,1.00%,F,T)



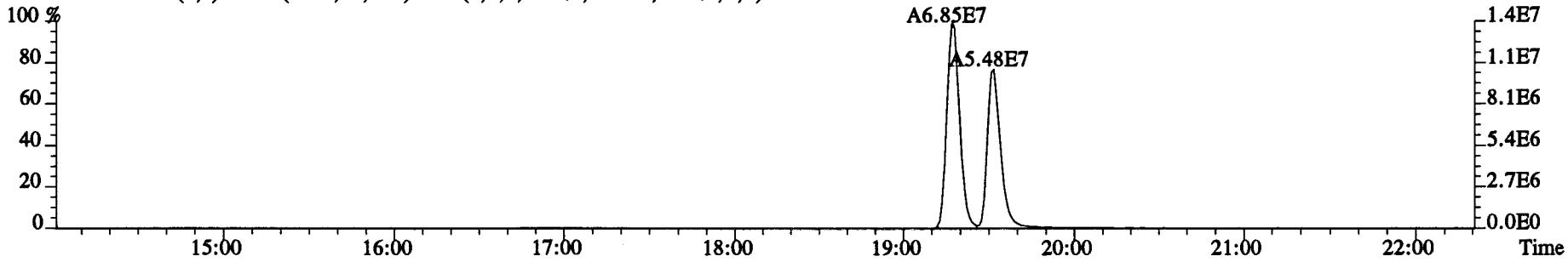
327.8847 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1548.0,1.00%,F,T)



331.9368 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5820.0,1.00%,F,T)

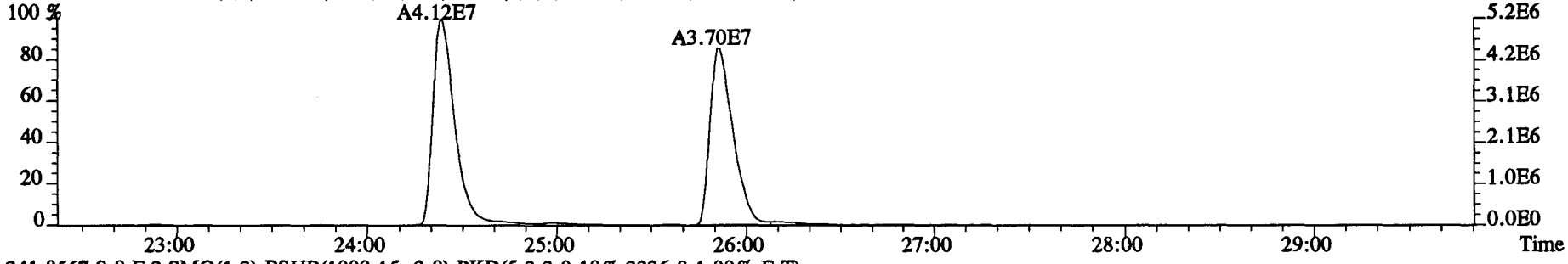


333.9339 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3796.0,1.00%,F,T)

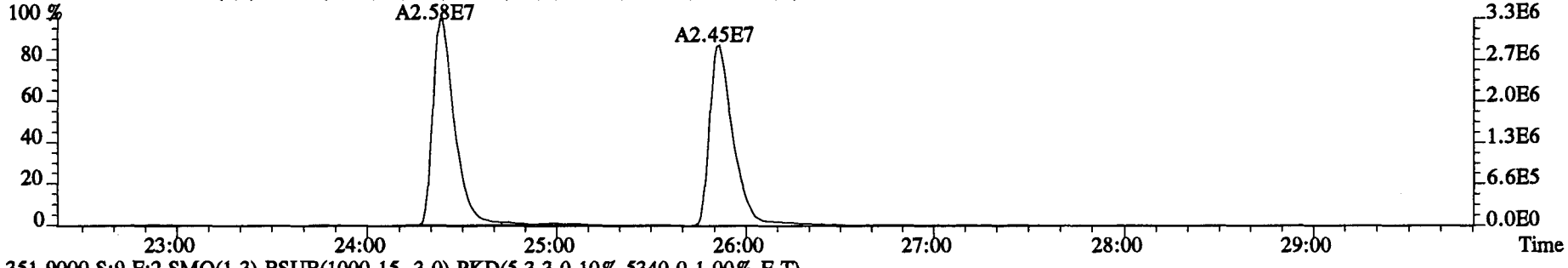


File:17FE104D5 #1-596 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN

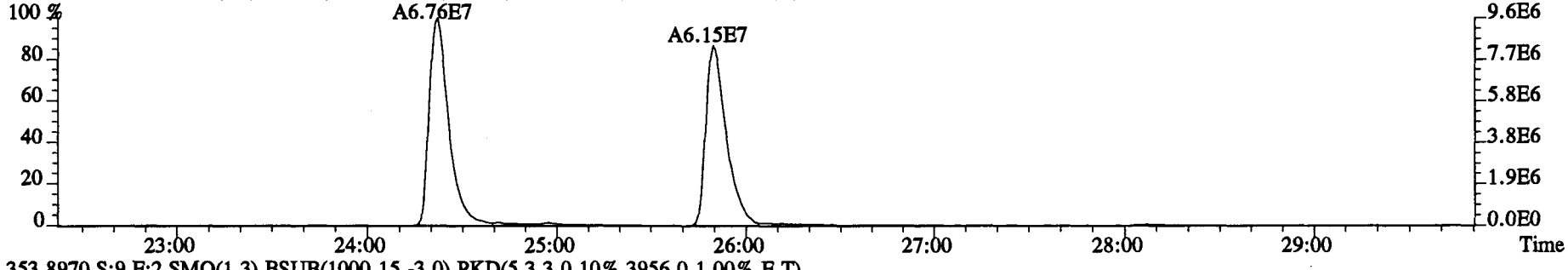
339.8597 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2796.0,1.00%,F,T)



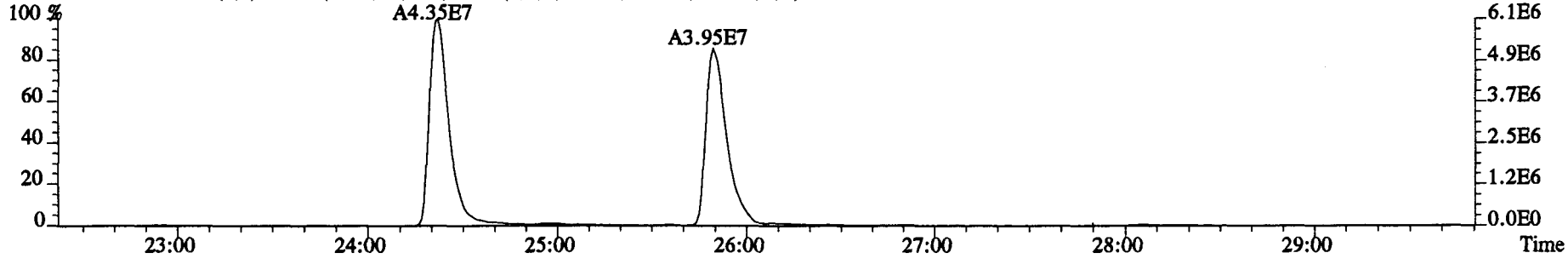
341.8567 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3236.0,1.00%,F,T)



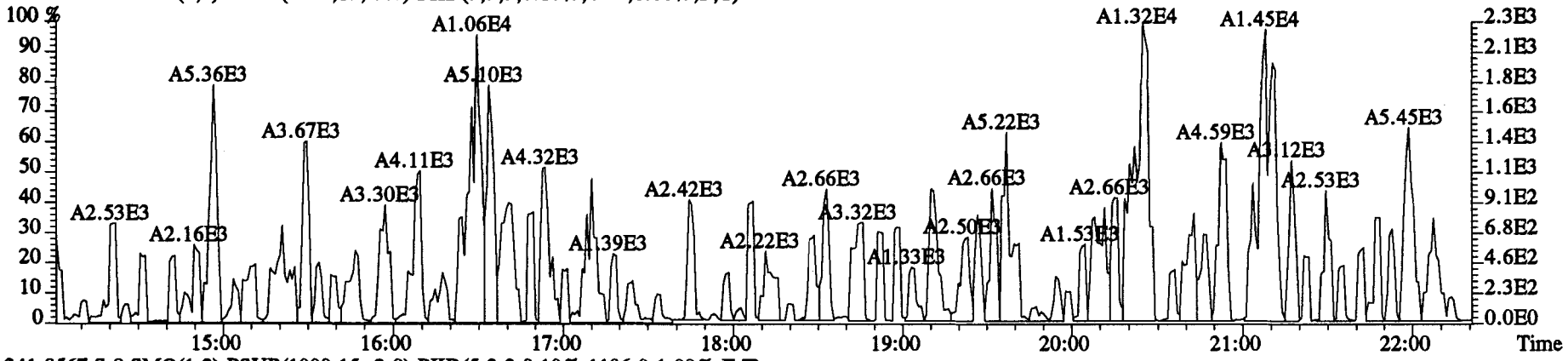
351.9000 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5340.0,1.00%,F,T)



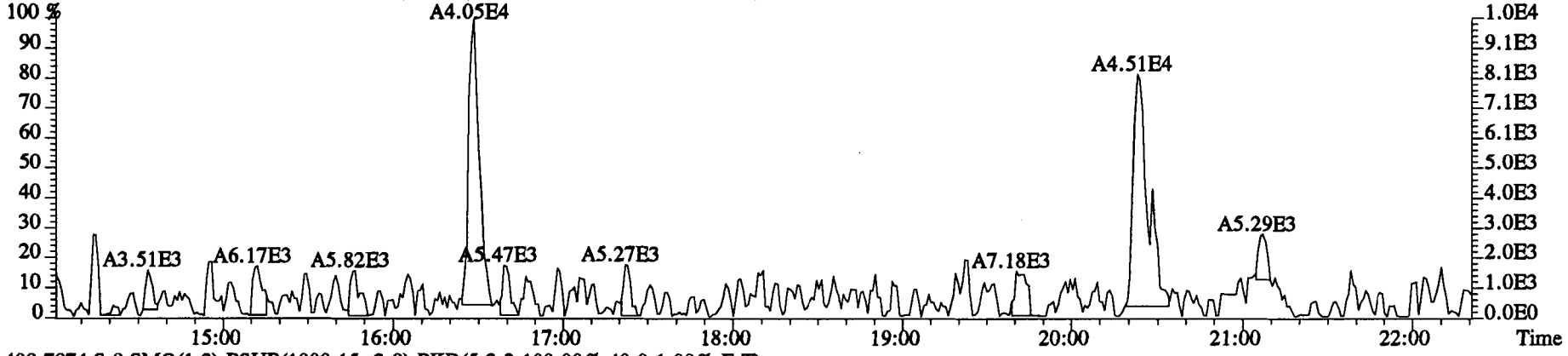
353.8970 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3956.0,1.00%,F,T)



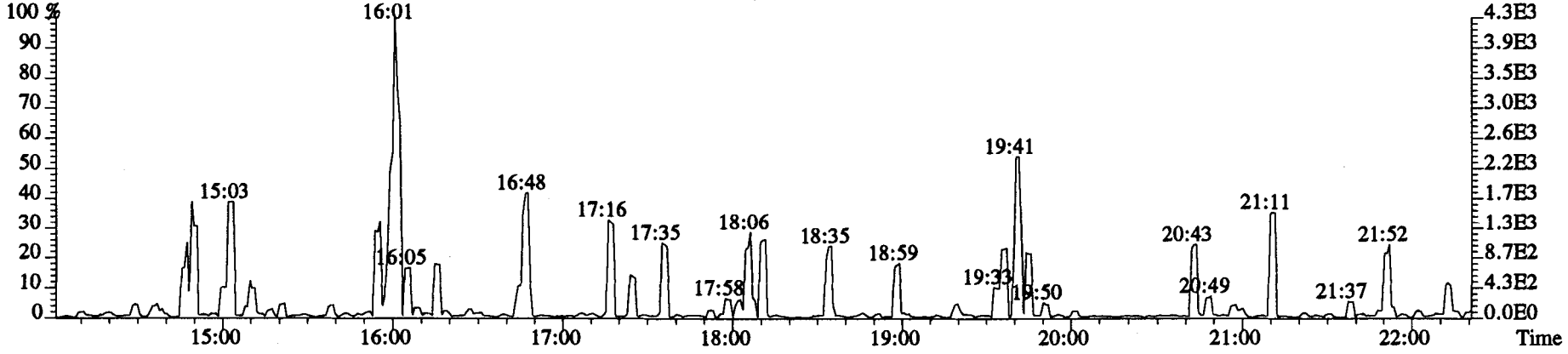
File:17FE104D5 #1-578 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN
339.8597 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)



341.8567 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1196.0,1.00%,F,T)

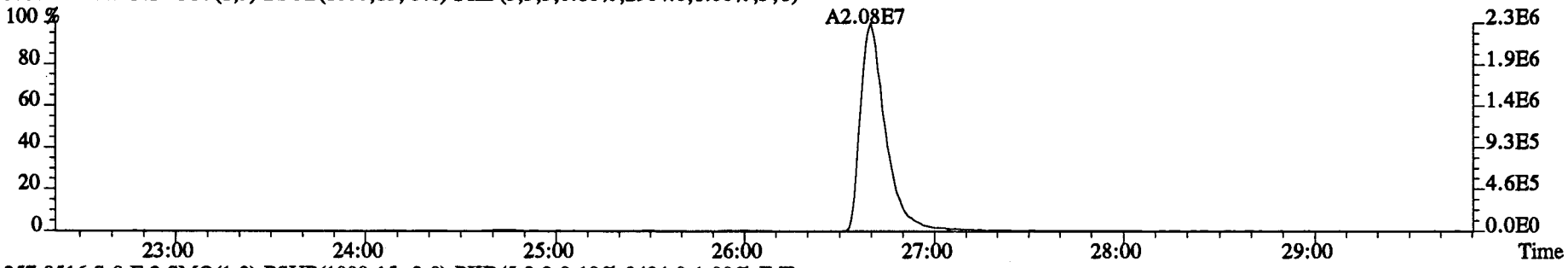


409.7974 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,40.0,1.00%,F,T)

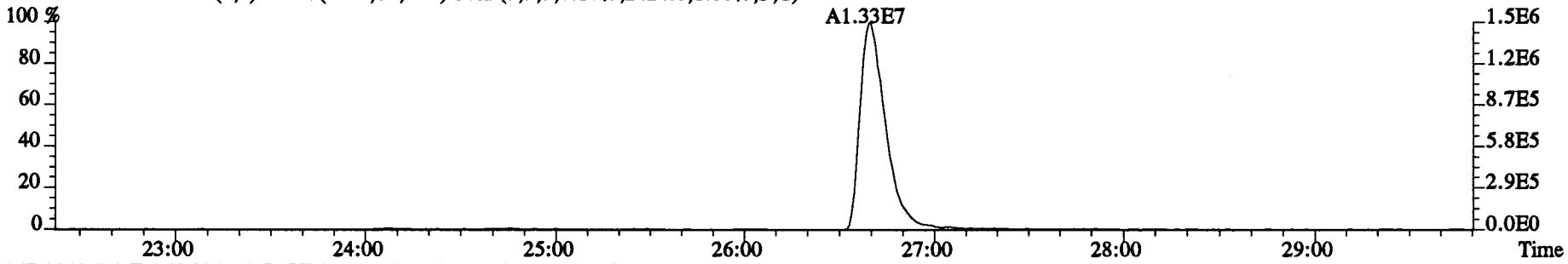


File:17FE104D5 #1-596 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN

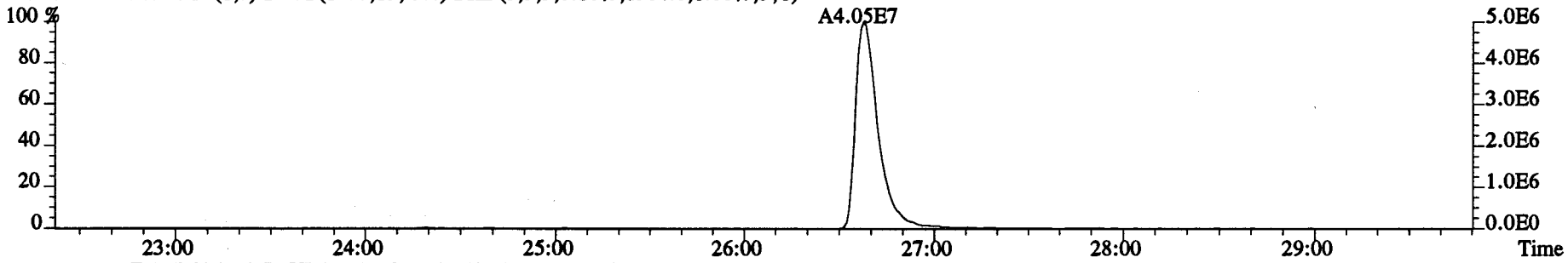
355.8546 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2904.0,1.00%,F,T)



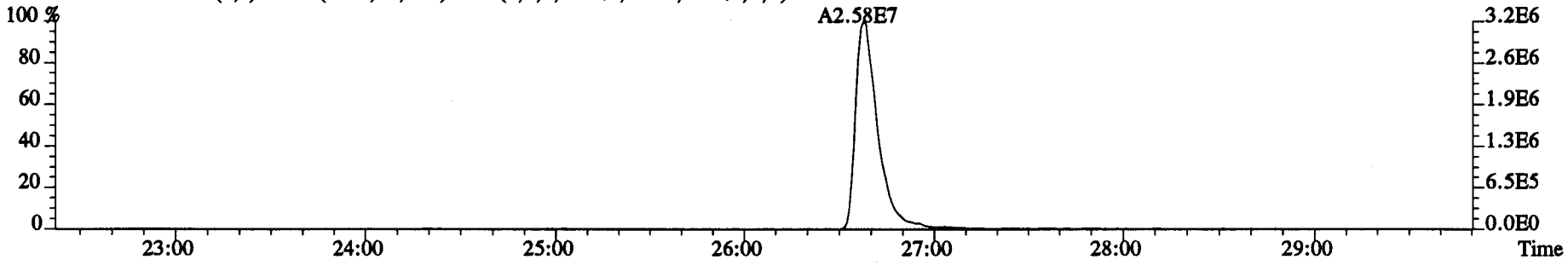
357.8516 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2424.0,1.00%,F,T)



367.8949 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1904.0,1.00%,F,T)

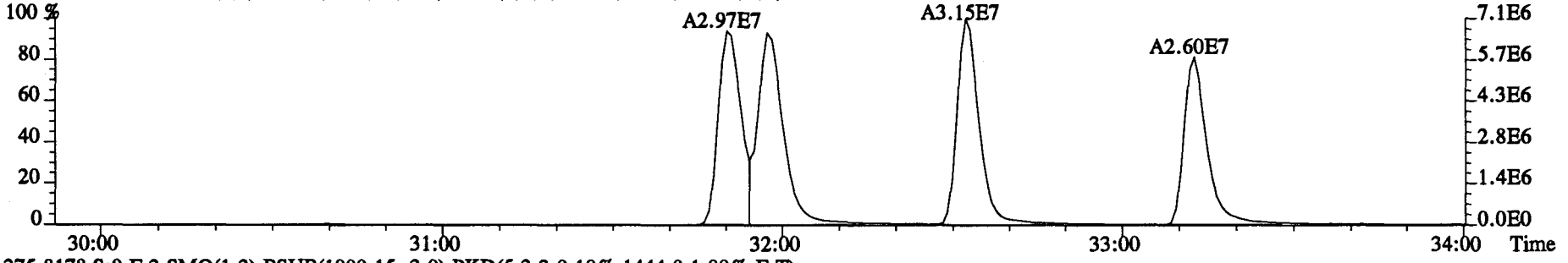


369.8919 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,208.0,1.00%,F,T)

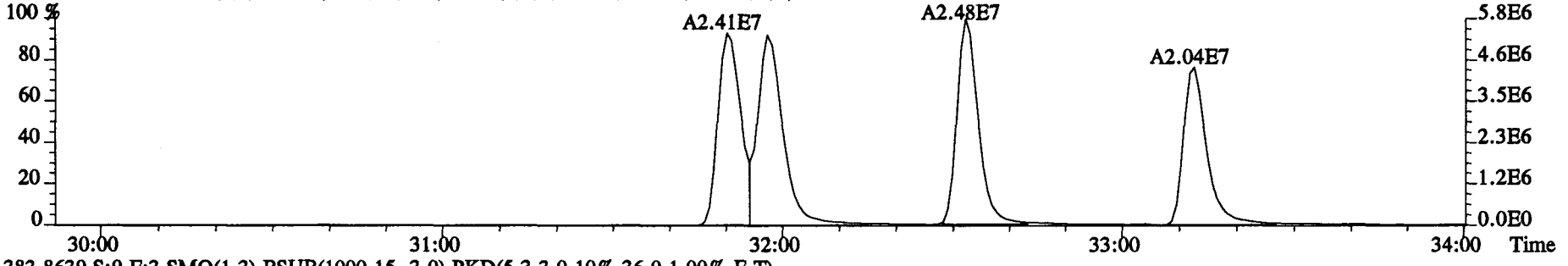


File:17FE104D5 #1-314 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN

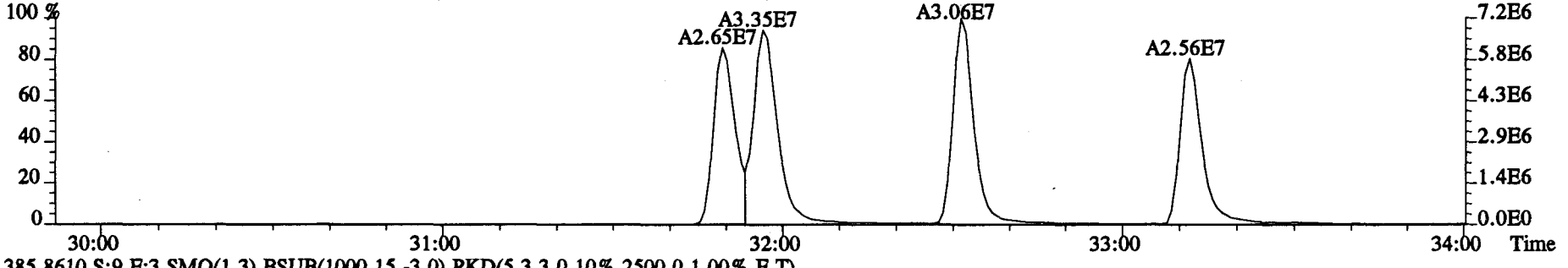
373.8208 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,560.0,1.00%,F,T)



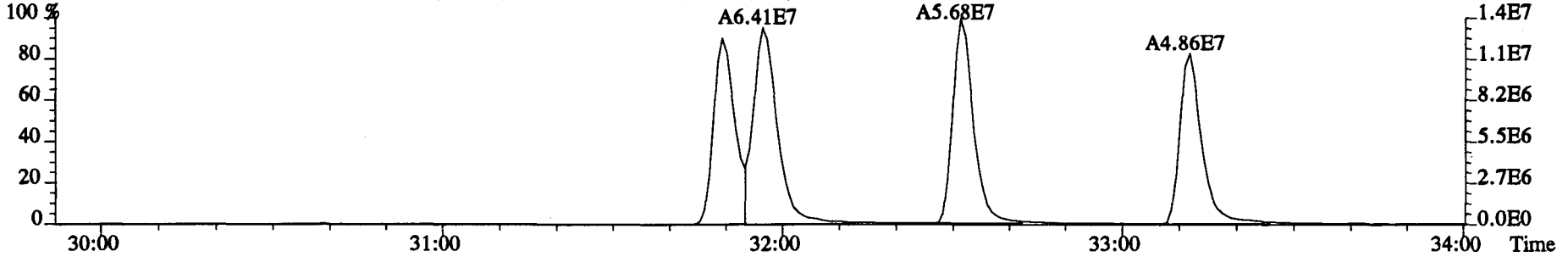
375.8178 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1444.0,1.00%,F,T)



383.8639 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,36.0,1.00%,F,T)

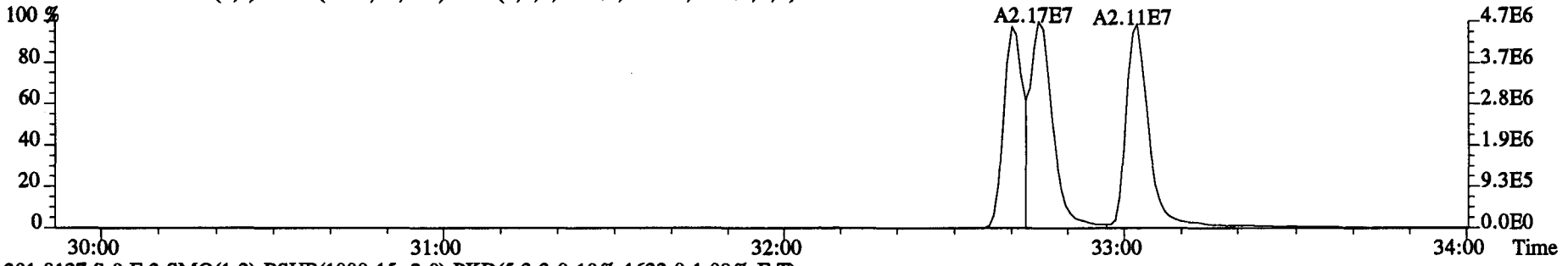


385.8610 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2500.0,1.00%,F,T)

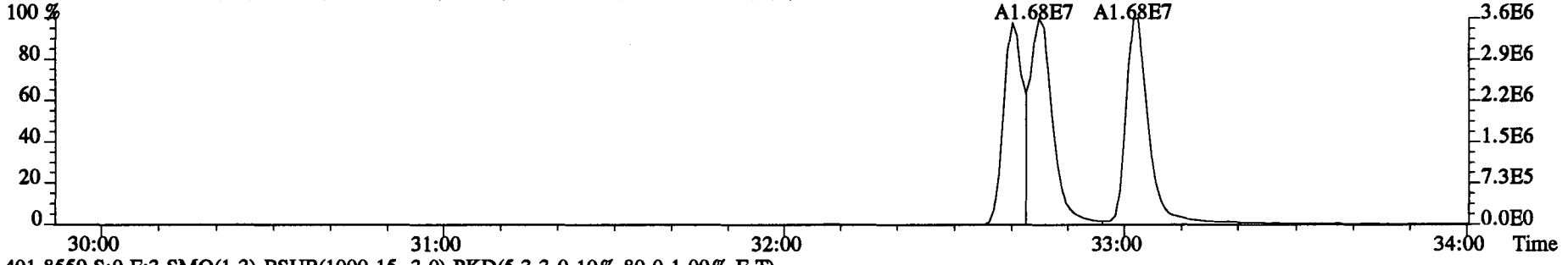


File:17FE104D5 #1-314 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN

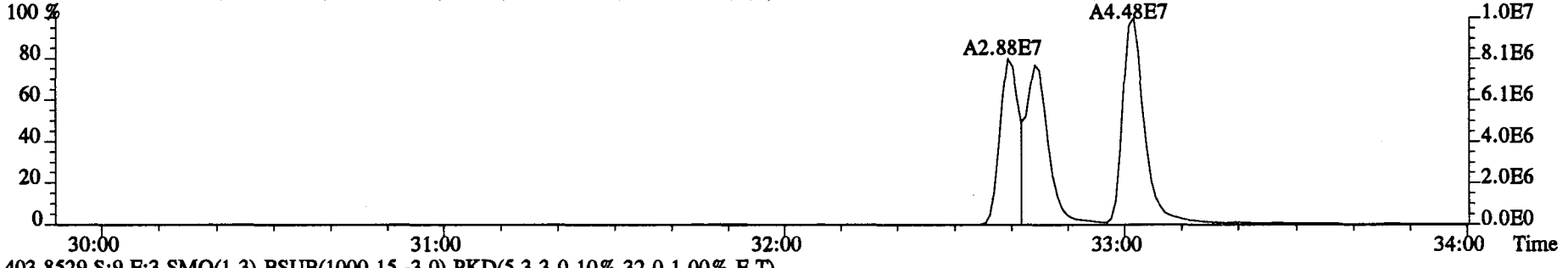
389.8157 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1792.0,1.00%,F,T)



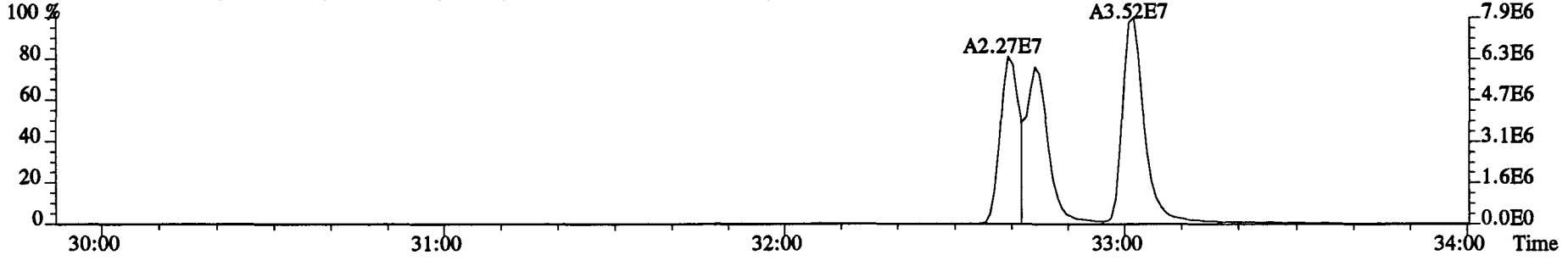
391.8127 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1632.0,1.00%,F,T)



401.8559 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,80.0,1.00%,F,T)

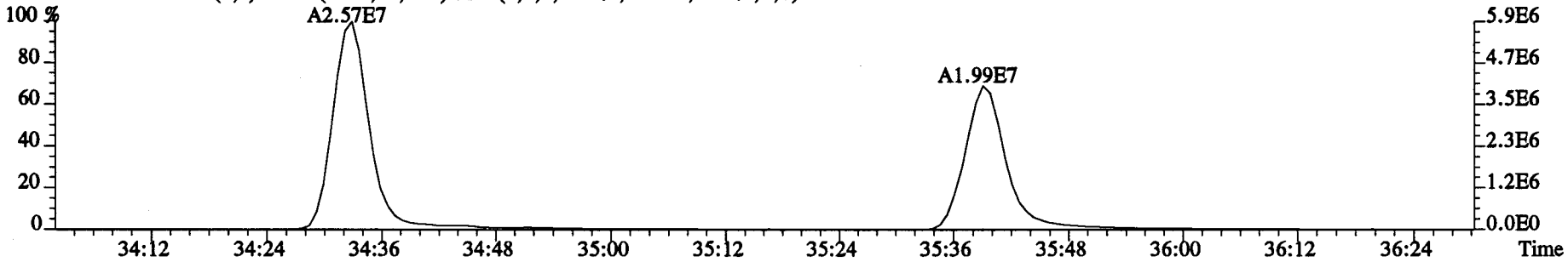


403.8529 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32.0,1.00%,F,T)

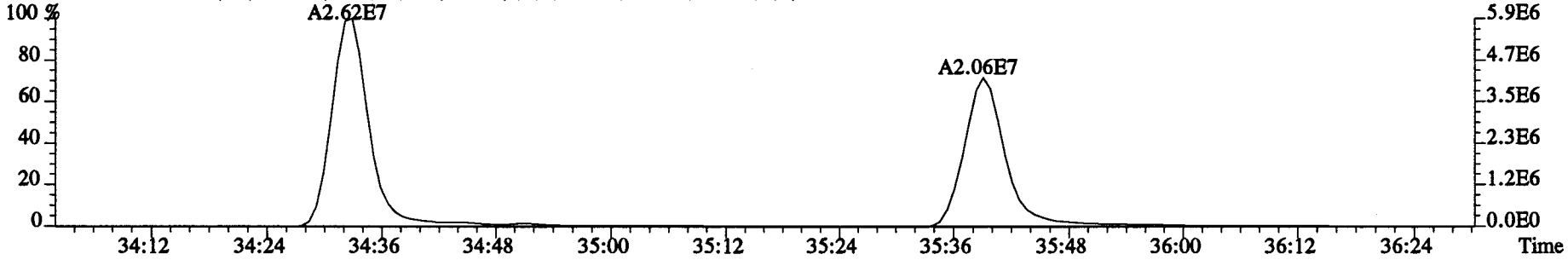


File:17FE104D5 #1-198 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN

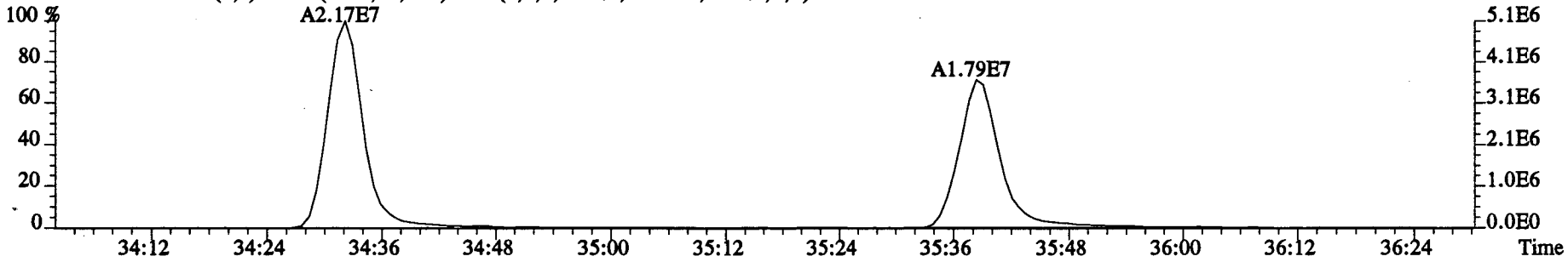
407.7818 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6548.0,1.00%,F,T)



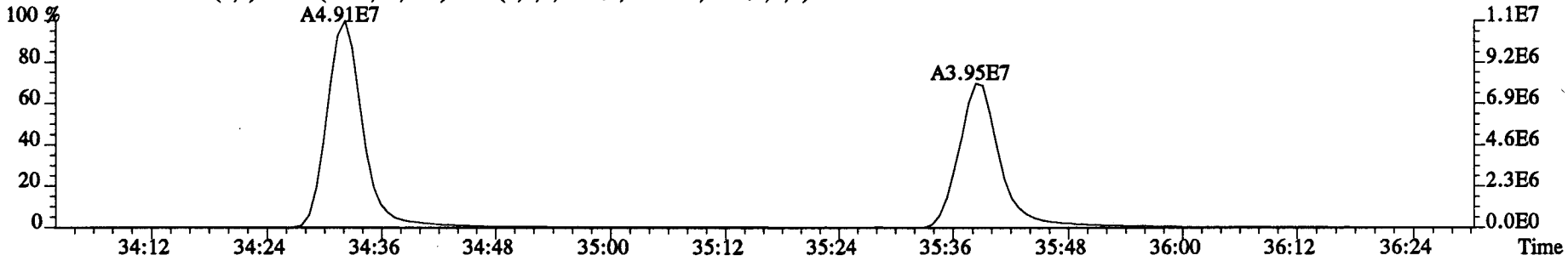
409.7789 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5708.0,1.00%,F,T)



417.8253 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12344.0,1.00%,F,T)

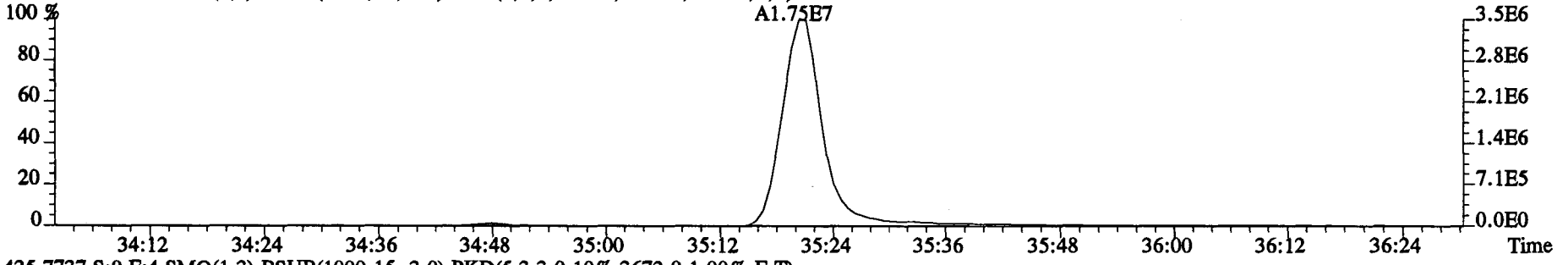


419.8220 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15768.0,1.00%,F,T)

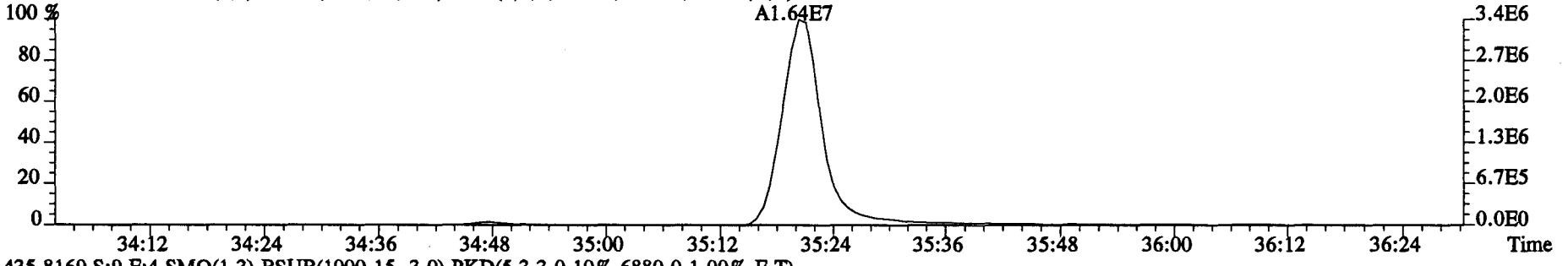


File:17FE104D5 #1-198 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN

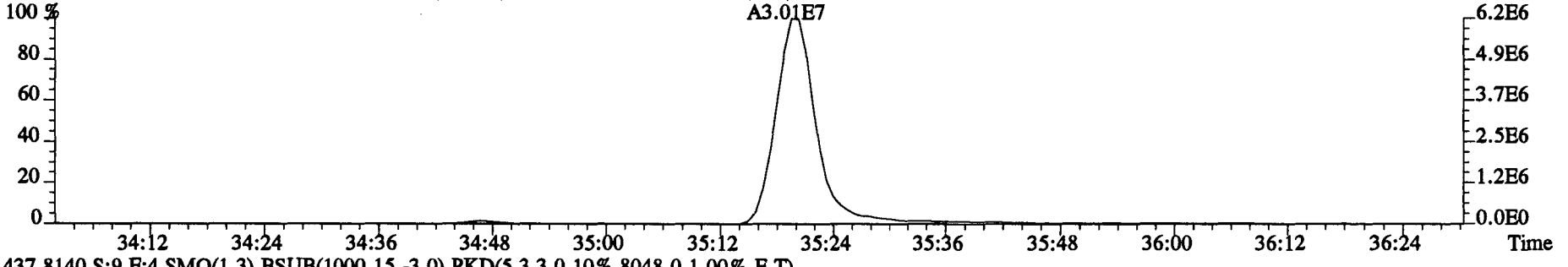
423.7766 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6172.0,1.00%,F,T)



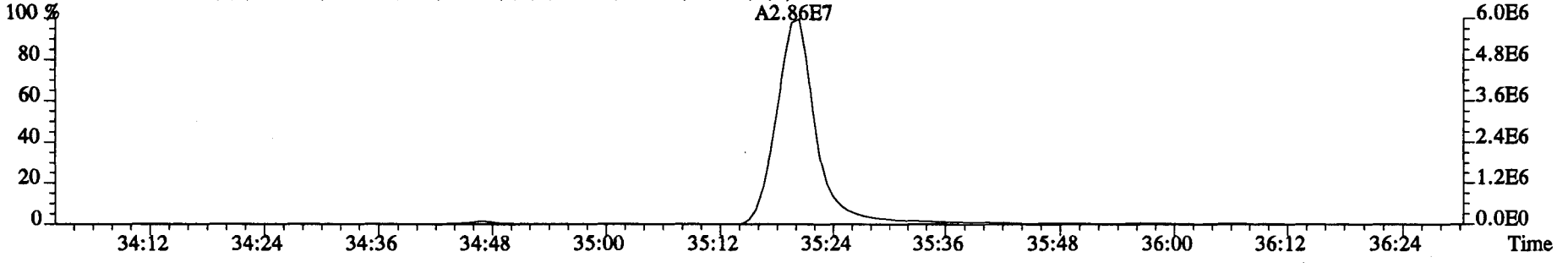
425.7737 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3672.0,1.00%,F,T)



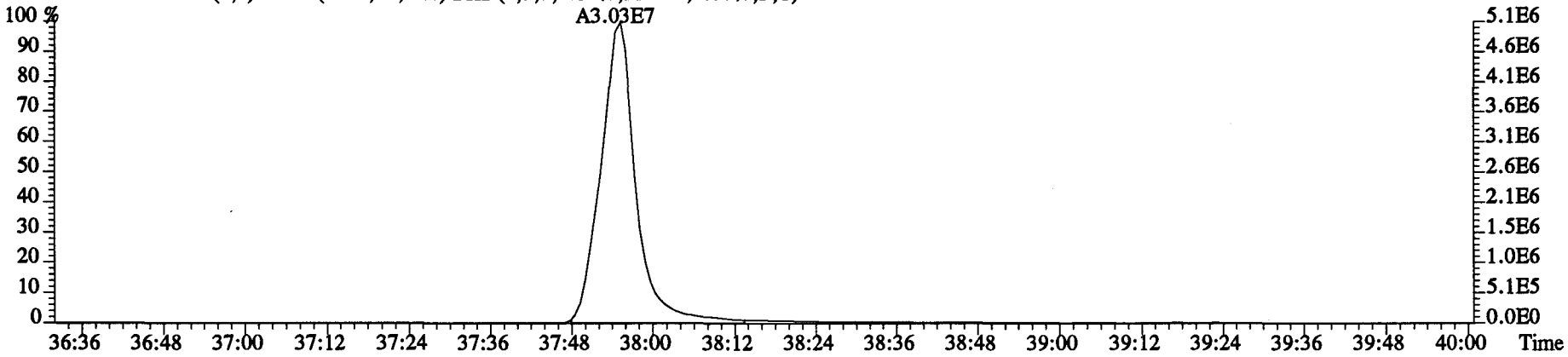
435.8169 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6880.0,1.00%,F,T)



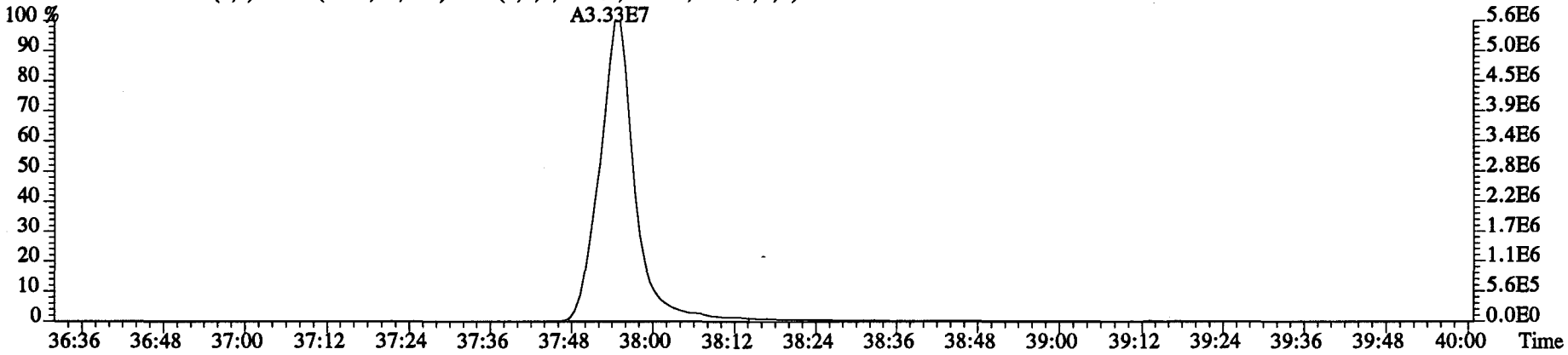
437.8140 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8048.0,1.00%,F,T)



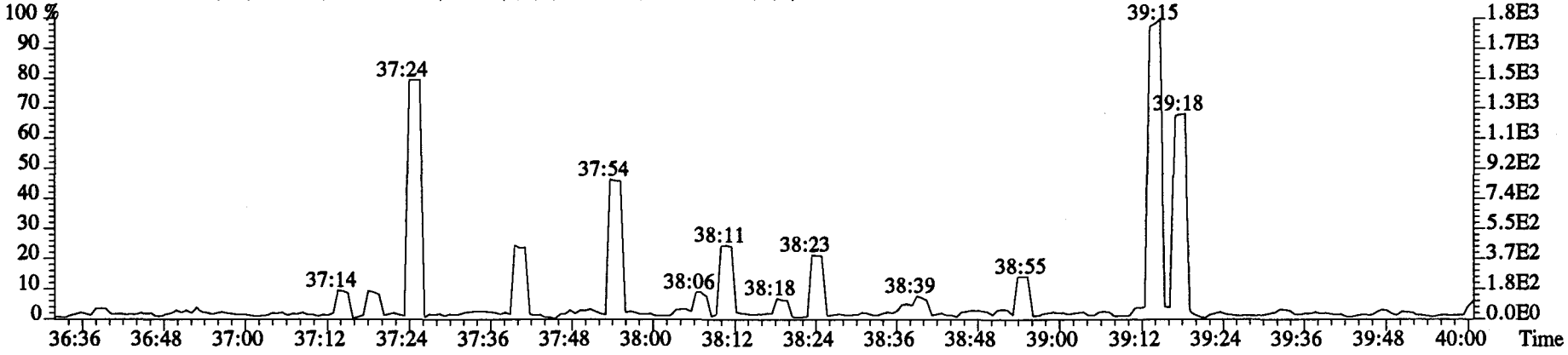
File:17FE104D5 #1-282 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN
441.7428 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2244.0,1.00%,F,T)



443.7399 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2308.0,1.00%,F,T)

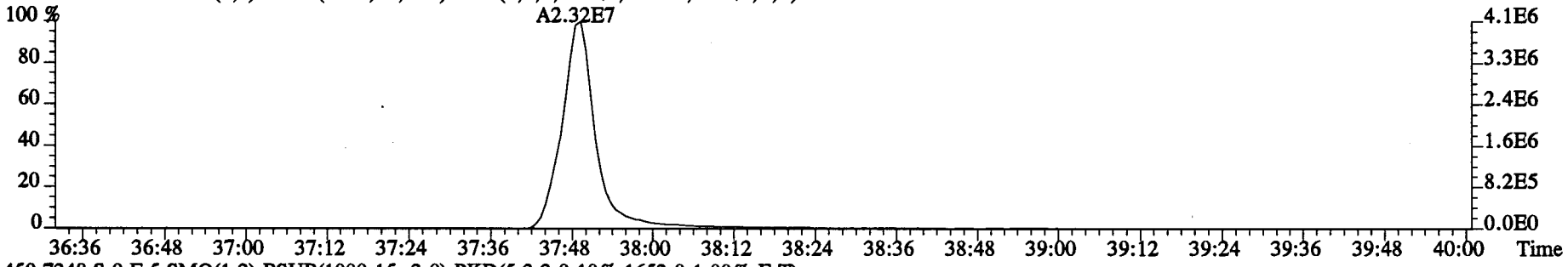


513.6775 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,40.0,1.00%,F,T)

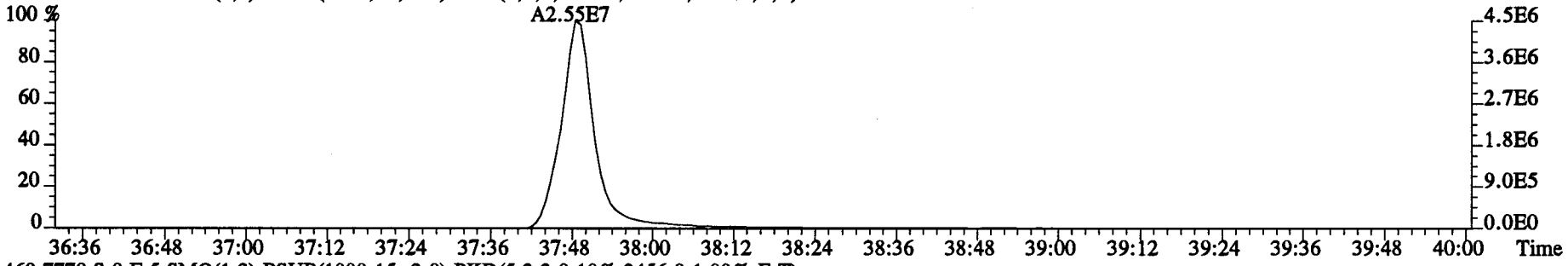


File:17FE104D5 #1-282 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN

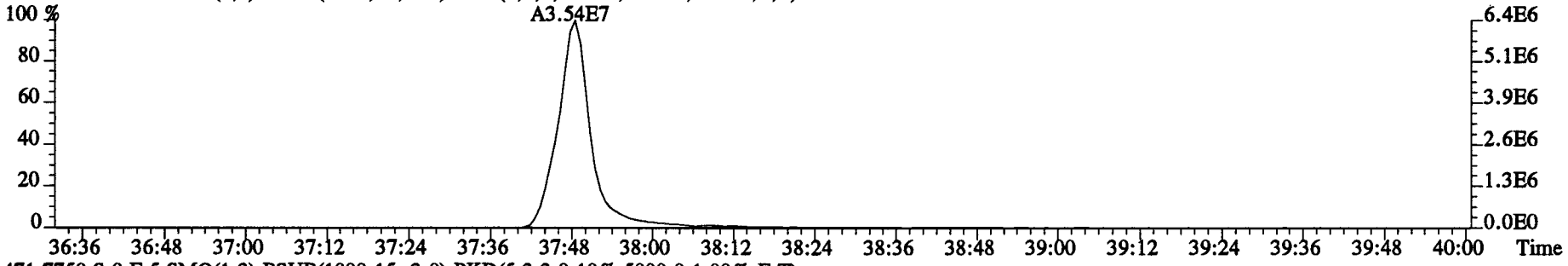
457.7377 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2328.0,1.00%,F,T)



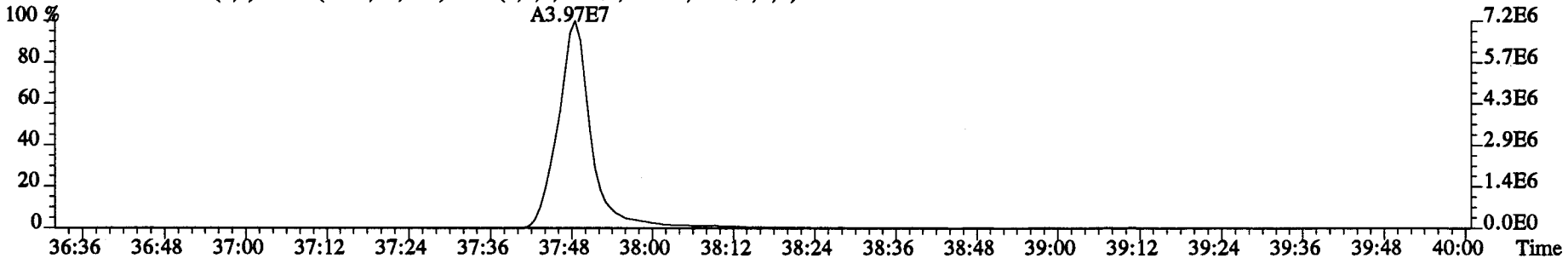
459.7348 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1652.0,1.00%,F,T)



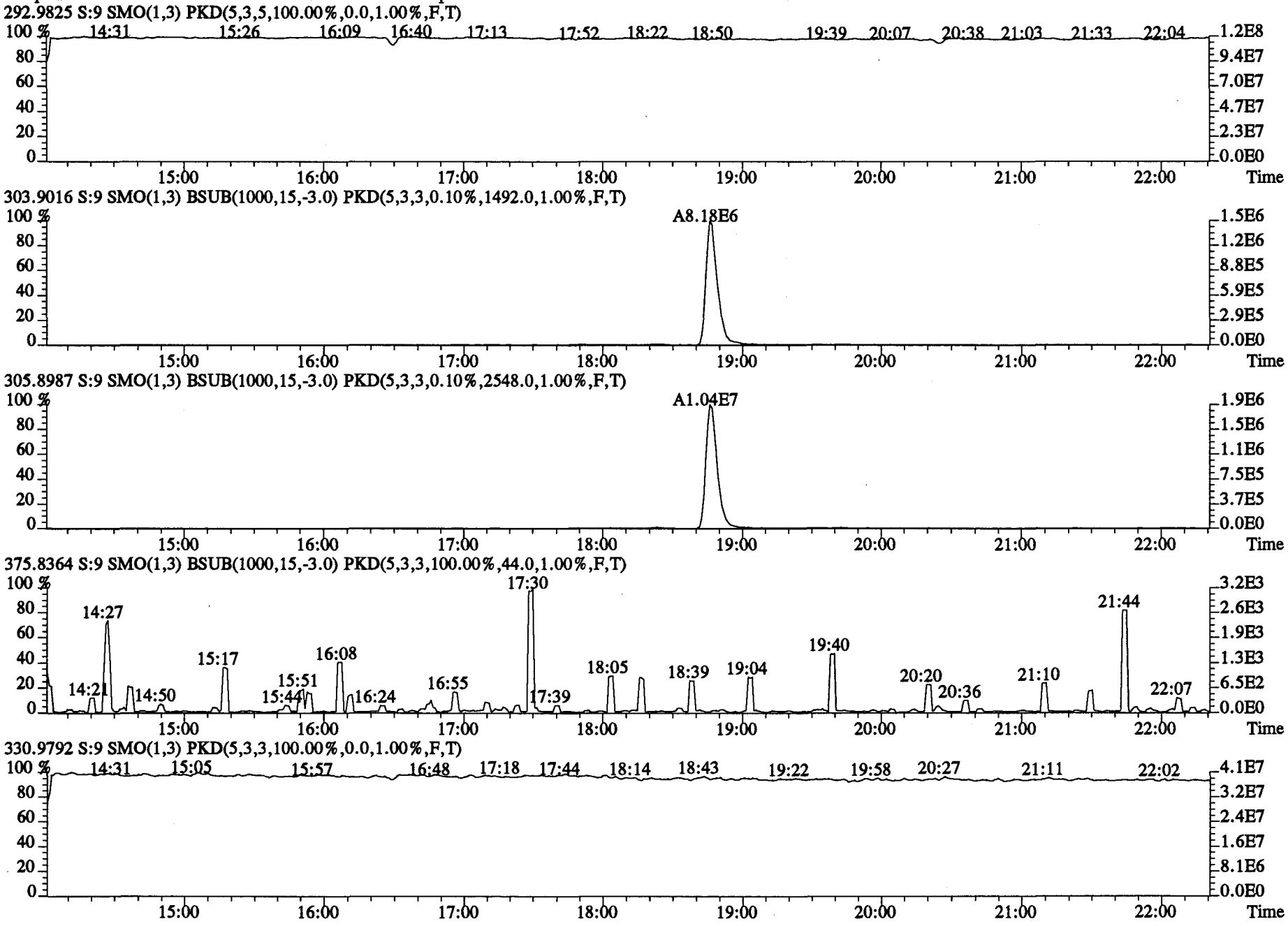
469.7779 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3456.0,1.00%,F,T)



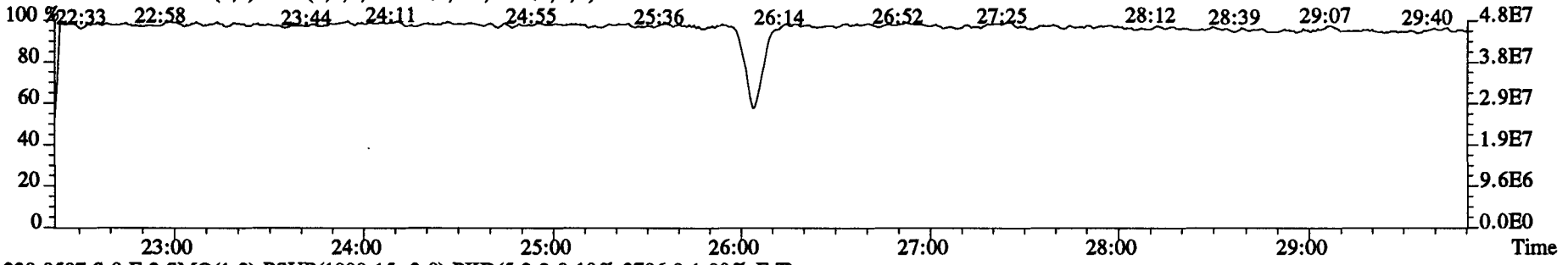
471.7750 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5000.0,1.00%,F,T)



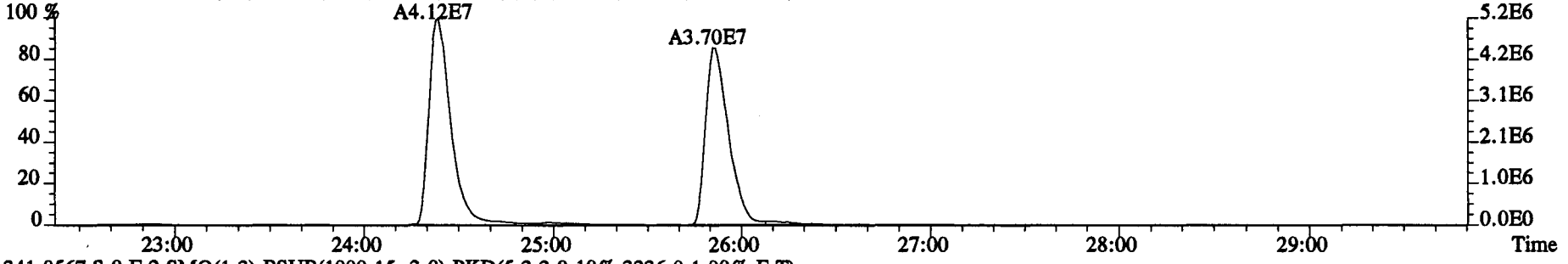
File:17FE104D5 #1-578 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN



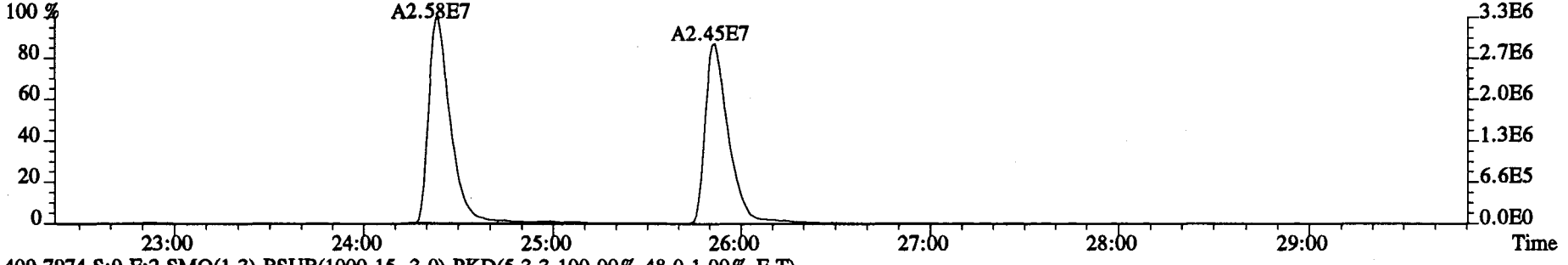
File:17FE104D5 #1-596 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN
342.9792 S:9 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



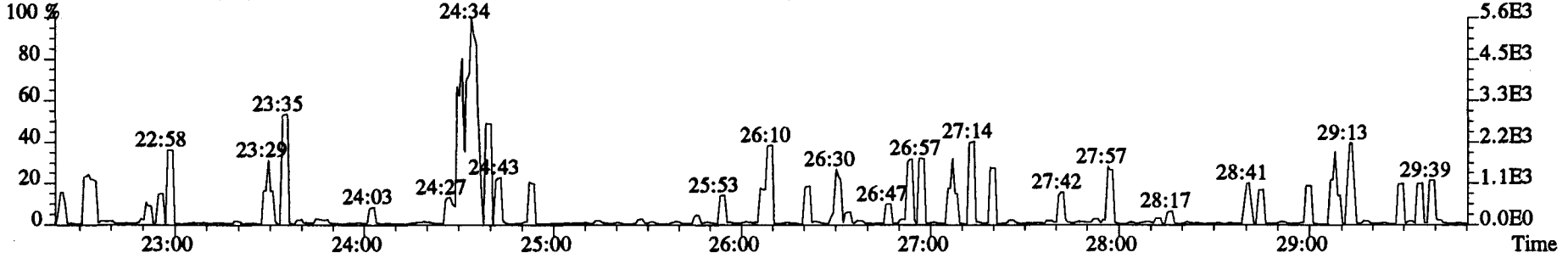
339.8597 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2796.0,1.00%,F,T)



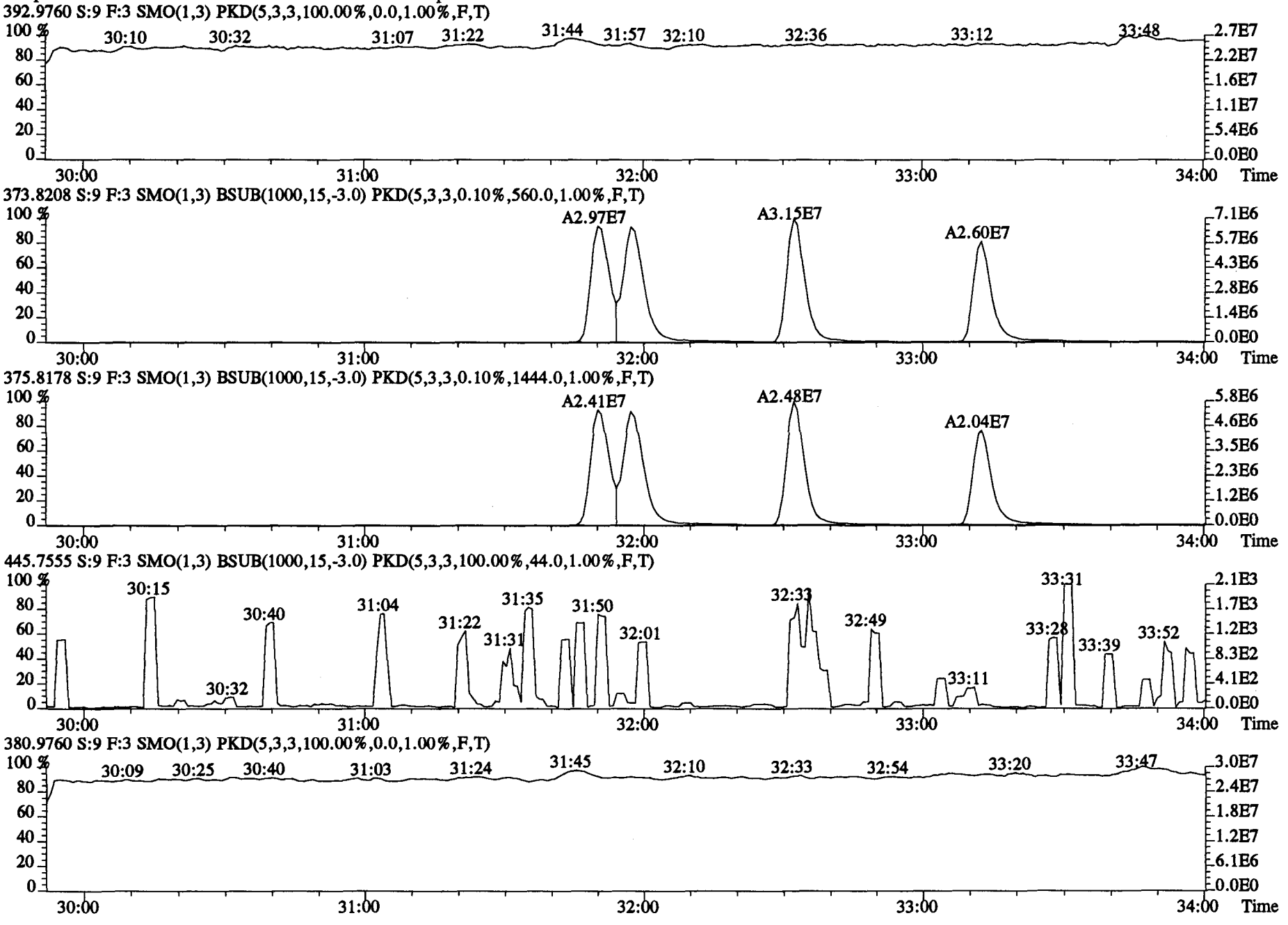
341.8567 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3236.0,1.00%,F,T)



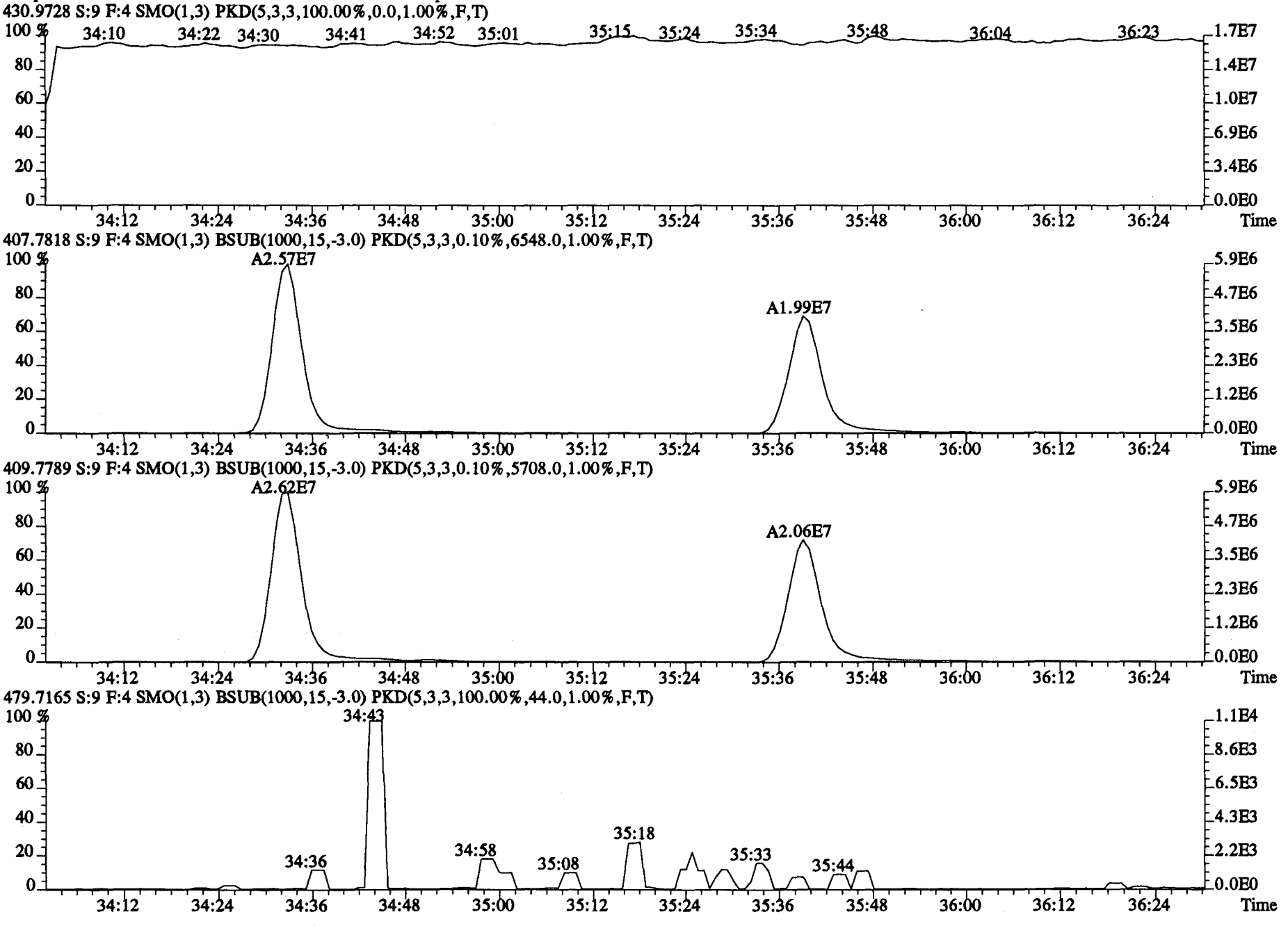
409.7974 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,48.0,1.00%,F,T)



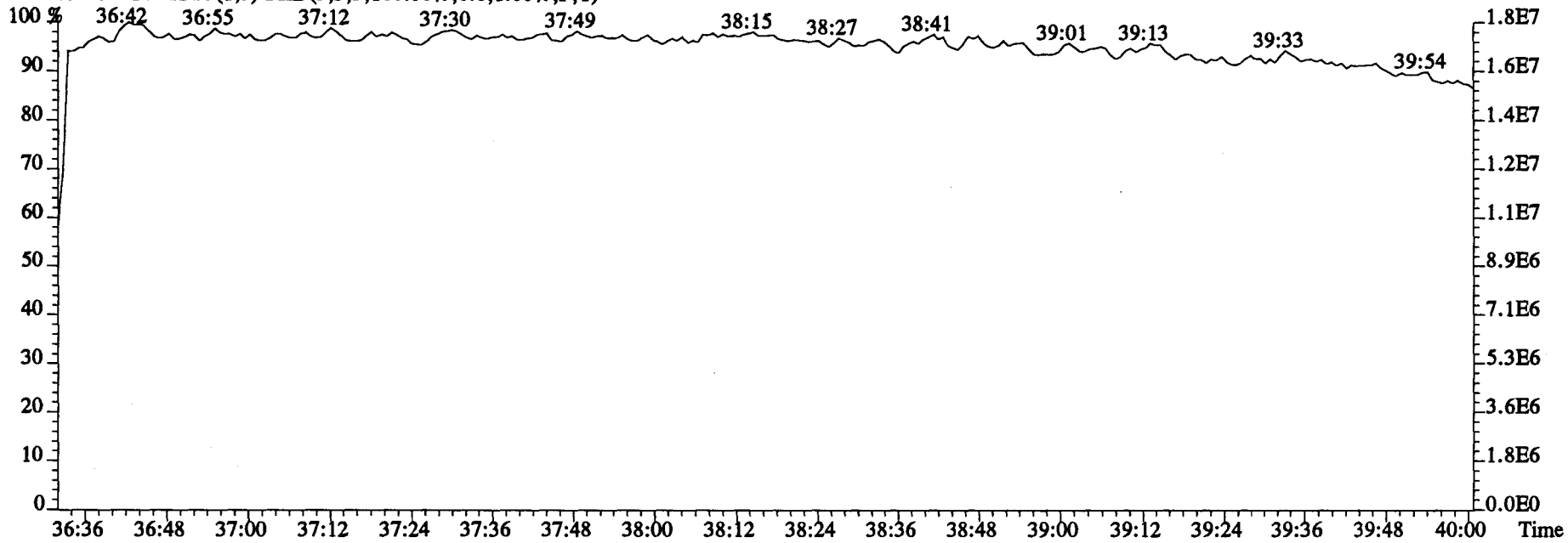
File:17FE104D5 #1-314 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN



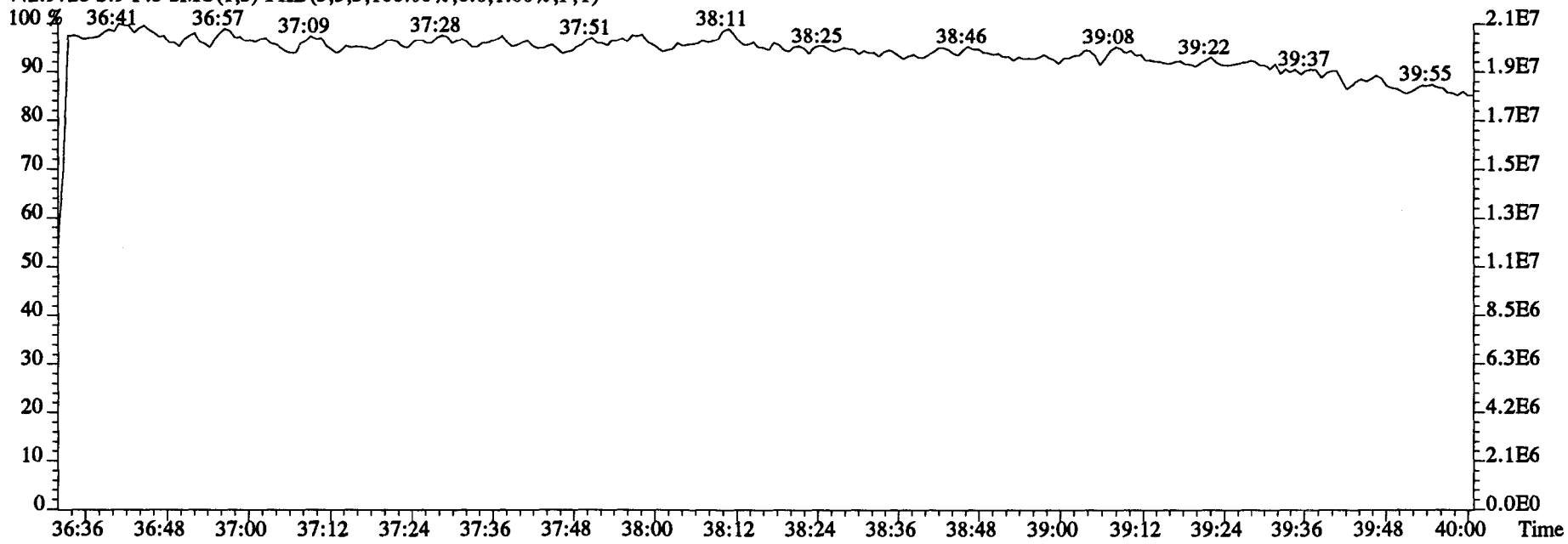
File:17FE104D5 #1-198 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN



File:17FE104D5 #1-282 Acq:17-FEB-2010 15:26:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LT76X-1-ACS :G0B040517-4S Exp:DIOXIN
454.9728 S:9 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:9 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: LT76X-1-ADD Sample text: LT76X-1-ADD :G0B040517-4D
Run #14 Filename: 17FE104D5 S: 10 I: 1 Results: 17FE104D58290
Acquired: 17-FEB-10 16:10:06 Processed: 17-FEB-10 19:35:03
Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.054400L

AK 2/23/10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	131777200	0.82	y	19:17	-	75.08	-	-	n
13C-2,3,7,8-TCDF	193391500	0.81	y	18:45	1.57	1772.55	1.43	93.4	n
2,3,7,8-TCDF	21237840	0.78	y	18:46	1.05	197.95	0.60	-	n
Total TCDF	21866054	0.74	y	16:59	1.05	203.80	0.60	-	n
13C-2,3,7,8-TCDD	116084500	0.80	y	19:31	1.00	1669.47	1.77	88.0	n
2,3,7,8-TCDD	12926370	0.77	y	19:33	1.05	200.40	0.99	-	n
Total TCDD	13027032	0.87	y	18:20	1.05	201.96	0.99	-	n
37Cl-2,3,7,8-TCDD	114468400	1.00	y	19:33	2.42	682.06	0.16	89.9	n
13C-1,2,3,7,8-PeCDF	128484100	1.59	y	24:21	1.34	1383.60	2.02	72.9	n
1,2,3,7,8-PeCDF	79064800	1.56	y	24:23	1.07	1091.36	1.59	-	n
2,3,4,7,8-PeCDF	73883300	1.54	y	25:51	1.04	1052.48	1.64	-	n
Total F2 PeCDF	154257786	1.25	n	22:51	1.05	2162.20	1.62	-	n
Total F1 PeCDF	167770	0.33	n	14:12	1.05	2.35	0.27	-	n
13C-1,2,3,7,8-PeCDD	77277400	1.60	y	26:37	0.81	1369.76	1.15	72.2	n
1,2,3,7,8-PeCDD	39101600	1.57	y	26:39	1.04	924.69	3.09	-	n
Total PeCDD	39236610	3.67	n	24:42	1.04	927.88	3.09	-	n
13C-1,2,3,7,8,9-HxCDD	84703300	1.26	y	33:02	-	49.24	-	-	n
13C-1,2,3,4,7,8-HxCDF	91686000	0.52	y	31:49	1.01	2023.71	5.97	106.7	n
1,2,3,4,7,8-HxCDF	61807000	1.24	y	31:50	1.24	1031.62	0.45	-	n
1,2,3,6,7,8-HxCDF	70539200	1.25	y	31:57	1.49	979.30	0.38	-	n
2,3,4,6,7,8-HxCDF	64821100	1.22	y	32:32	1.34	1001.39	0.42	-	n
1,2,3,7,8,9-HxCDF	53805600	1.26	y	33:13	1.22	912.44	0.46	-	n
Total HxCDF	251124204	1.79	n	30:40	1.32	3927.11	0.43	-	n
13C-1,2,3,6,7,8-HxCDD	72761900	1.29	y	32:44	0.88	1843.50	0.75	97.2	n
1,2,3,4,7,8-HxCDD	33990700	1.27	y	32:40	0.90	981.71	1.14	-	n
1,2,3,6,7,8-HxCDD	44907400	1.29	y	32:45	1.19	983.74	0.87	-	n
1,2,3,7,8,9-HxCDD	43289200	1.25	y	33:02	1.16	974.78	0.89	-	n
Total HxCDD	122237969	1.11	y	32:08	1.08	2941.46	0.95	-	n
13C-1,2,3,4,6,7,8-HpCDF	78920600	0.45	y	34:32	0.94	1870.59	9.33	98.6	n
1,2,3,4,6,7,8-HpCDF	57202300	0.98	y	34:33	1.30	1058.45	4.85	-	n
1,2,3,4,7,8,9-HpCDF	44204100	0.96	y	35:39	1.10	964.49	5.72	-	n
Total HpCDF	102165127	0.98	y	34:33	1.20	2038.13	5.25	-	n
13C-1,2,3,4,6,7,8-HpCDD	64904400	1.08	y	35:20	0.79	1833.03	4.00	96.6	n
1,2,3,4,6,7,8-HpCDD	36634200	1.04	y	35:20	1.06	1013.85	3.71	-	n
Total HpCDD	37066975	0.95	y	34:47	1.06	1025.82	3.71	-	n
13C-OCDD	79227400	0.88	y	37:49	0.58	3048.78	5.08	80.4	n

OCDF	67110800	0.91	y	37:55	1.56	2063.00	2.36	-	n
OCDD	51635200	0.91	y	37:49	1.19	2072.28	2.17	-	n

Run Text: LT76X-1-ADD Sample text: LT76X-1-ADD :G0B040517-4D

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:9
Run: 14 File: 17FE104D5 S:10 Acq:17-FEB-10 16:10:06
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	214.89 of which	208.71 named and	6.17 unnamed
Conc:	203.80 of which	197.95 named and	5.86 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	16:59	0.74	y	0.76	34498	2.2	n	n
						46672	4.2	y	n
	2	17:12	0.82	y	0.63	30177	2.8	n	n
						36922	3.0	n	n
	3	17:46	0.95	n	1.08	62334	6.0	y	n
						65290	7.2	y	n
	4	18:23	0.82	y	1.69	81776	8.5	y	n
						99402	8.8	y	n
2,3,7,8-TCDF	5	18:46	0.78	y	197.95	9315840	829.5	y	n
						11922000	960.1	y	n
	6	19:16	1.58	n	0.87	83348	4.5	y	n
						52873	5.1	y	n
	7	19:41	0.26	n	0.46	21512	2.6	n	n
						82223	7.2	y	n
	8	19:58	1.27	n	0.15	11330	1.9	n	n
						8912	0.8	n	n
	9	21:06	0.71	y	0.23	10136	1.0	n	n
						14261	2.1	n	n

Run Text: LT76X-1-ADD Sample text: LT76X-1-ADD :G0B040517-4D

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:4
Run: 14 File: 17FE104D5 S:10 Acq:17-FEB-10 16:10:06
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	212.94 of which	211.30 named and	1.65 unnamed
Conc:	201.96 of which	200.40 named and	1.56 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	18:20	0.87	y	1.07	32299	2.2	n	n
						36959	3.4	y	n

2,3,7,8-TCDD	2	19:33	0.77	y	200.40	5621350	510.6	y	n
						7305020	575.5	y	n
	3	20:00	0.29	n	0.30	8536	1.6	n	n
						29806	3.5	y	n
	4	21:10	1.14	n	0.18	7574	1.3	n	n
						6657	1.2	n	n

Run Text: LT76X-1-ADD Sample text: LT76X-1-ADD :G0B040517-4D

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:5
Run: 14 File: 17FE104D5 S:10 Acq:17-FEB-10 16:10:06
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2279.82 of which	2260.46 named and	19.36	unnamed
Conc:	2162.20 of which	2143.84 named and	18.36	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	22:51	1.25	n	4.82	209171	8.7	y	n
						167445	7.0	y	n
	2	23:45	1.21	n	1.43	62074	5.2	y	n
						51479	3.4	y	n
1,2,3,7,8-PeCDF	3	24:23	1.56	y	1091.36	48137900	1994.9	y	n
						30926900	1528.3	y	n
	4	24:57	0.98	n	12.11	524839	19.3	y	n
						535033	15.8	y	n
2,3,4,7,8-PeCDF	5	25:51	1.54	y	1052.48	44816400	1749.2	y	n
						29066900	1339.7	y	n

Run Text: LT76X-1-ADD Sample text: LT76X-1-ADD :G0B040517-4D

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:23
Run: 14 File: 17FE104D5 S:10 Acq:17-FEB-10 16:10:06
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2.48 of which	* named and	2.48	unnamed
Conc:	2.35 of which	* named and	2.35	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:12	0.33	n	0.04	1637	12.1	y	n
						5004	1.8	n	n
	2	14:43	0.92	n	0.08	3319	12.4	y	n
						3627	1.2	n	n
	3	14:59	0.48	n	0.10	4187	16.6	y	n
						8634	2.5	n	n
	4	15:21	0.34	n	0.04	1589	11.1	y	n
						4724	1.9	n	n
	5	15:26	1.14	n	0.12	5377	21.6	y	n
						4724	1.9	n	n
	6	16:07	0.36	n	0.04	1782	8.0	y	n
						4939	1.1	n	n
	7	16:10	0.24	n	0.03	1172	7.5	y	n
						4939	1.1	n	n
	8	16:29	0.43	n	0.37	16163	58.1	y	n
						37272	8.7	y	n
	9	16:38	3.11	n	0.15	13054	46.9	y	n
						4204	1.6	n	n
	10	18:48	0.35	n	0.04	1949	10.7	y	n
						5509	2.1	n	n
	11	19:12	0.56	n	0.05	2303	15.0	y	n
						4140	1.1	n	n
	12	19:17	2.09	n	0.15	8667	38.6	y	n
						4140	1.1	n	n
	13	19:44	0.80	n	0.12	5273	25.4	y	n
						6583	2.6	n	n
	14	19:51	1.44	y	0.11	4512	21.5	y	n
						3133	1.1	n	n
	15	20:08	0.76	n	0.06	2755	11.5	y	n
						3633	1.4	n	n
	16	20:23	0.08	n	0.08	3254	23.9	y	n

					38742	8.2	y	n
17	20:27	0.12	n	0.11	4793	26.2	y	n
					38742	8.2	y	n
18	20:38	0.53	n	0.09	4061	30.3	y	n
					7726	1.8	n	n
19	20:46	0.14	n	0.03	1407	10.2	y	n
					10169	2.9	n	n
20	20:54	0.79	n	0.04	1855	11.3	y	n
					2336	0.7	n	n
21	21:07	0.81	n	0.39	16724	44.5	y	n
					20706	4.9	y	n
22	21:18	0.27	n	0.06	2387	13.8	y	n
					8871	2.2	n	n
23	21:46	0.90	n	0.06	2410	11.6	y	n
					2688	1.0	n	n

Run Text: LT76X-1-ADD Sample text: LT76X-1-ADD :G0B040517-4D

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:4
Run: 14 File: 17FE104D5 S:10 Acq:17-FEB-10 16:10:06
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	978.36 of which	974.99 named and	3.37 unnamed		
Conc:	927.88 of which	924.69 named and	3.19 unnamed		

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	24:42	3.67	n	2.00	121789	5.0	y	n
						33224	2.7	n	n
1,2,3,7,8-PeCDD	2	26:39	1.57	y	924.69	23872600	870.3	y	n
						15229000	720.0	y	n
	3	27:17	6.17	n	0.59	60818	4.5	y	n
						9861	1.5	n	n
	4	27:22	6.55	n	0.59	64571	4.9	y	n
						9861	1.5	n	n

Run Text: LT76X-1-ADD Sample text: LT76X-1-ADD :G0B040517-4D

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:5
Run: 14 File: 17FE104D5 S:10 Acq:17-FEB-10 16:10:06
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	4140.75 of which	4138.25 named and	2.50	unnamed
Conc:	3927.11 of which	3924.75 named and	2.37	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	30:40	1.79	n	2.37	121023	16.1	y	n
						67547	15.3	y	n
1,2,3,4,7,8-HxCDF	2	31:50	1.24	y	1031.62	34199800	6292.5	y	n
						27607200	6966.6	y	n
1,2,3,6,7,8-HxCDF	3	31:57	1.25	y	979.30	39159300	6197.3	y	n
						31379900	6944.3	y	n
2,3,4,6,7,8-HxCDF	4	32:32	1.22	y	1001.39	35628300	6631.0	y	n
						29192800	7361.0	y	n
1,2,3,7,8,9-HxCDF	5	33:13	1.26	y	912.44	29958000	5340.9	y	n
						23847600	5800.4	y	n

Run Text: LT76X-1-ADD Sample text: LT76X-1-ADD :G0B040517-4D

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:4
Run: 14 File: 17FE104D5 S:10 Acq:17-FEB-10 16:10:06
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	3101.47 of which	3100.19 named and	1.29	unnamed
Conc:	2941.46 of which	2940.24 named and	1.22	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	32:08	1.11	y	1.22	26645	4.7	y	n
						24024	5.5	y	n
1,2,3,4,7,8-HxCDD	2	32:40	1.27	y	981.71	18987300	3161.4	y	n
						15003400	3245.8	y	n
1,2,3,6,7,8-HxCDD	3	32:45	1.29	y	983.74	25275200	3302.7	y	n
						19632200	3490.0	y	n
1,2,3,7,8,9-HxCDD	4	33:02	1.25	y	974.78	24029200	3258.3	y	n
						19260000	3419.5	y	n

Run Text: LT76X-1-ADD Sample text: LT76X-1-ADD :G0B040517-4D

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:3
Run: 14 File: 17FE104D5 S:10 Acq:17-FEB-10 16:10:06
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2149.01 of which	2132.99 named and	16.02 unnamed		
Conc:	2038.13 of which	2022.94 named and	15.19 unnamed		

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:33	0.98	y	1058.45	28303100	634.1	y	n
						28899200	645.5	y	n
	2	34:51	0.80	n	15.19	386802	6.5	y	n
						485827	7.8	y	n
1,2,3,4,7,8,9-HpCDF	3	35:39	0.96	y	964.49	21603700	419.9	y	n
						22600400	453.7	y	n

Run Text: LT76X-1-ADD Sample text: LT76X-1-ADD :G0B040517-4D

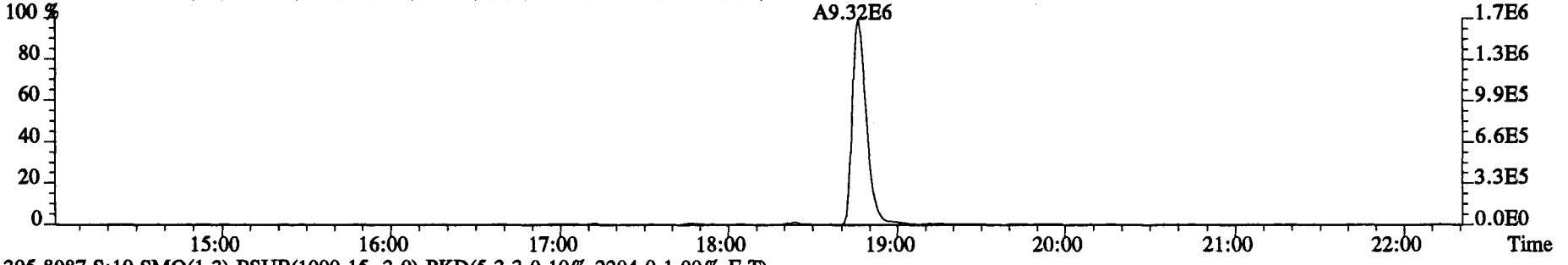
Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:2
Run: 14 File: 17FE104D5 S:10 Acq:17-FEB-10 16:10:06
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1081.63 of which	1069.00 named and	12.63 unnamed		
Conc:	1025.82 of which	1013.85 named and	11.98 unnamed		

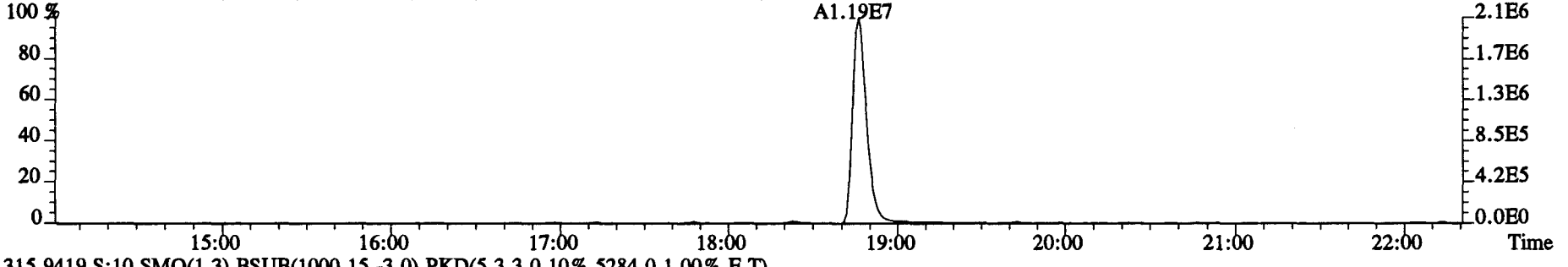
Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	34:47	0.95	y	11.98	211064	9.4	y	n
						221711	13.4	y	n
1,2,3,4,6,7,8-HpCDD	2	35:20	1.04	y	1013.85	18711800	700.7	y	n
						17922400	936.3	y	n

File:17FE104D5 #1-578 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN

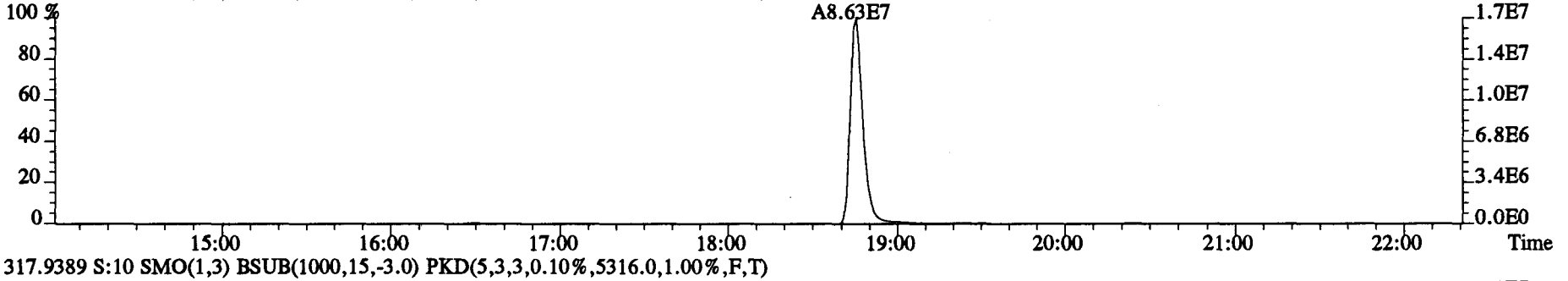
303.9016 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1988.0,1.00%,F,T)



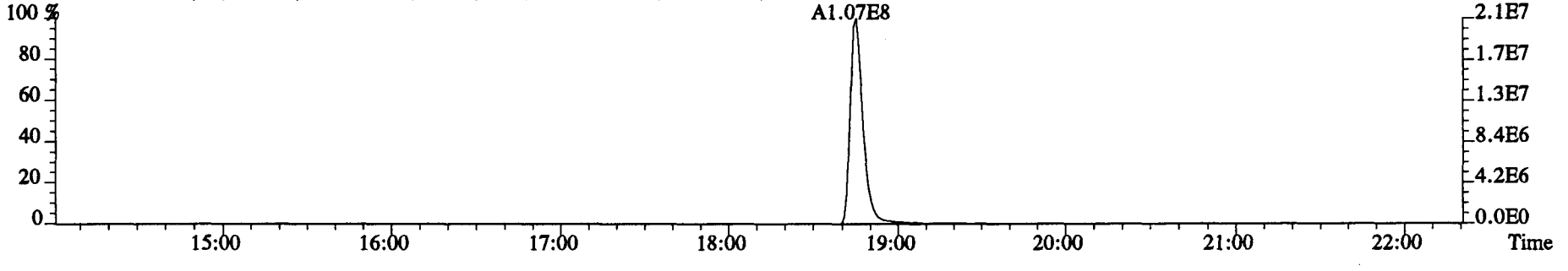
305.8987 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2204.0,1.00%,F,T)



315.9419 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5284.0,1.00%,F,T)

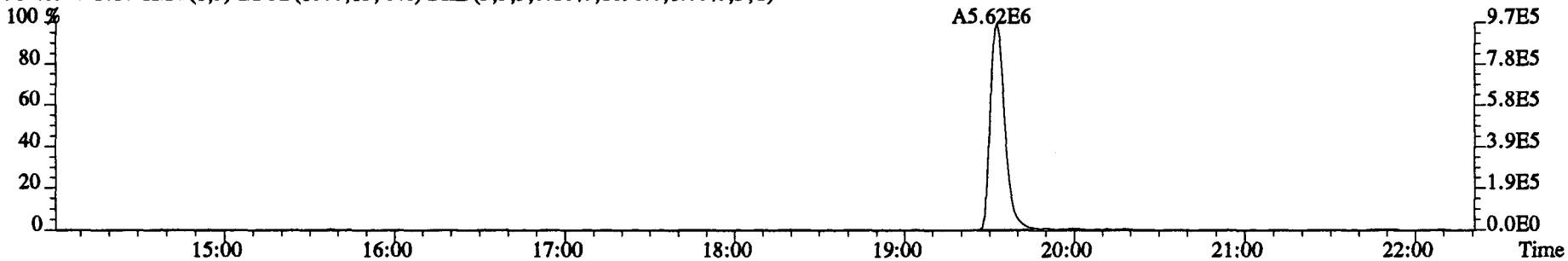


317.9389 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5316.0,1.00%,F,T)

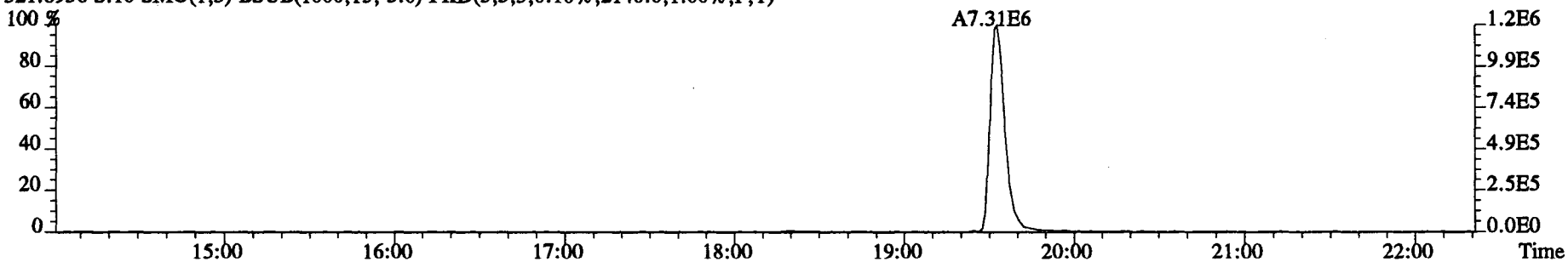


File:17FE104D5 #1-578 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN

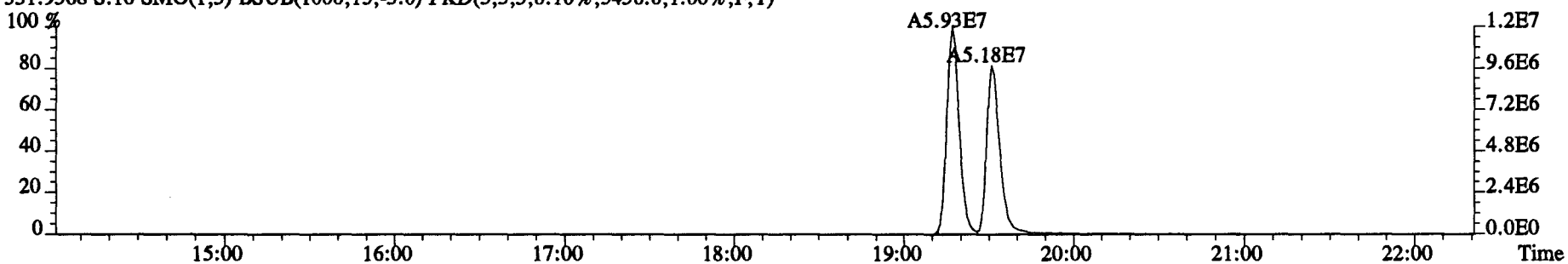
319.8965 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1896.0,1.00%,F,T)



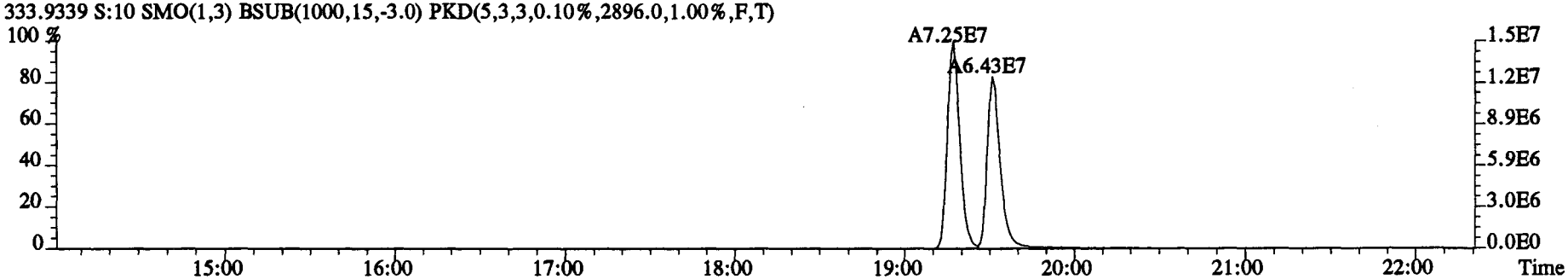
321.8936 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2140.0,1.00%,F,T)



331.9368 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5436.0,1.00%,F,T)



333.9339 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2896.0,1.00%,F,T)



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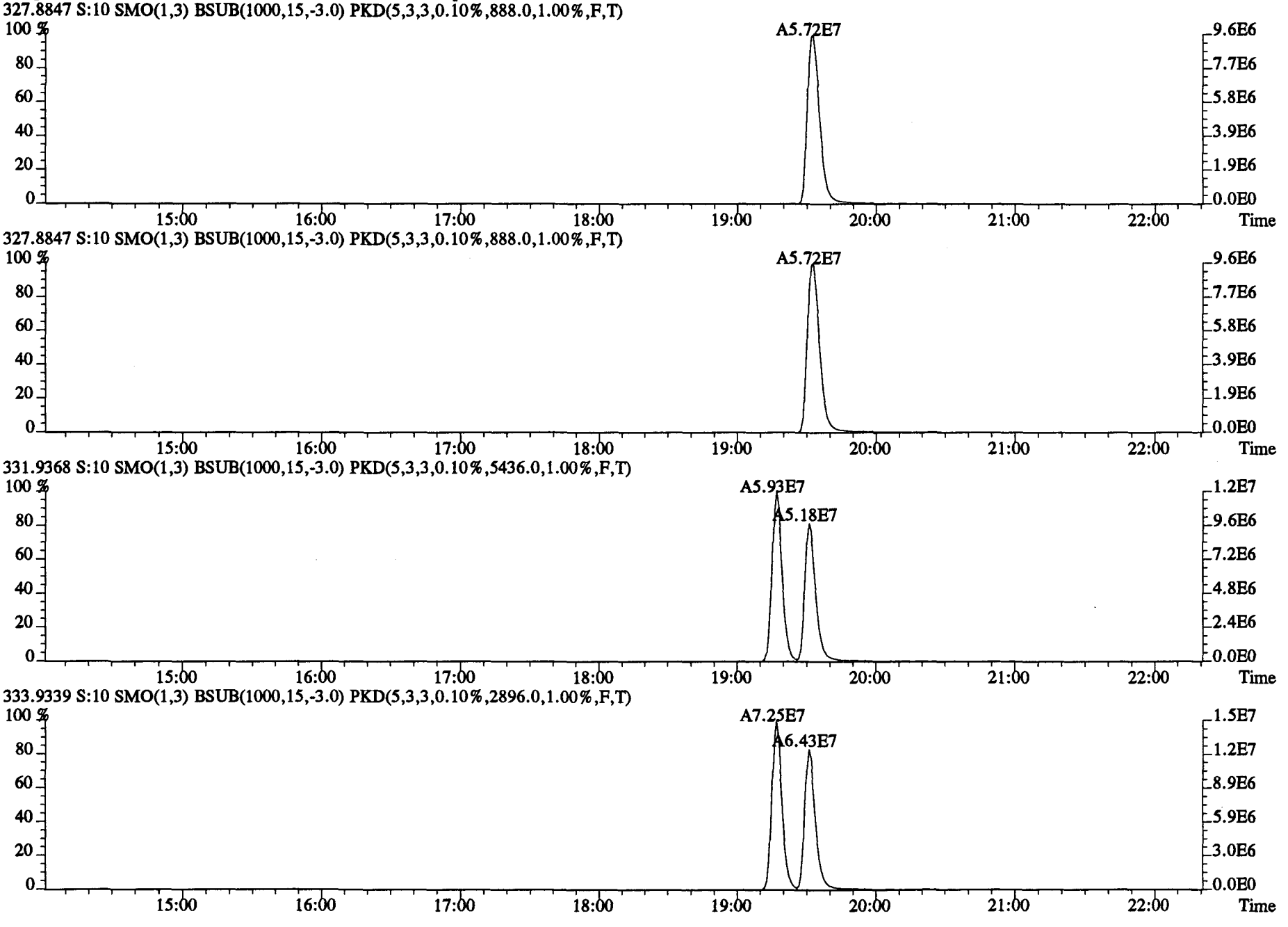
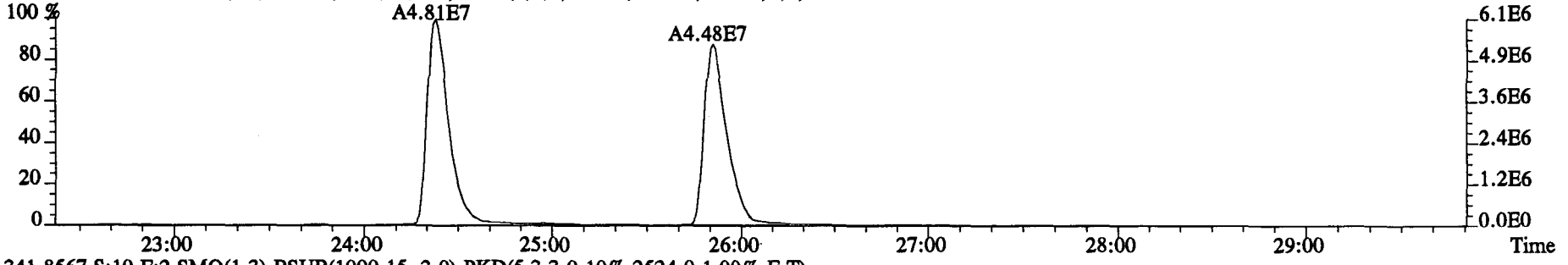
File:17FE104D5 #1-578 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN

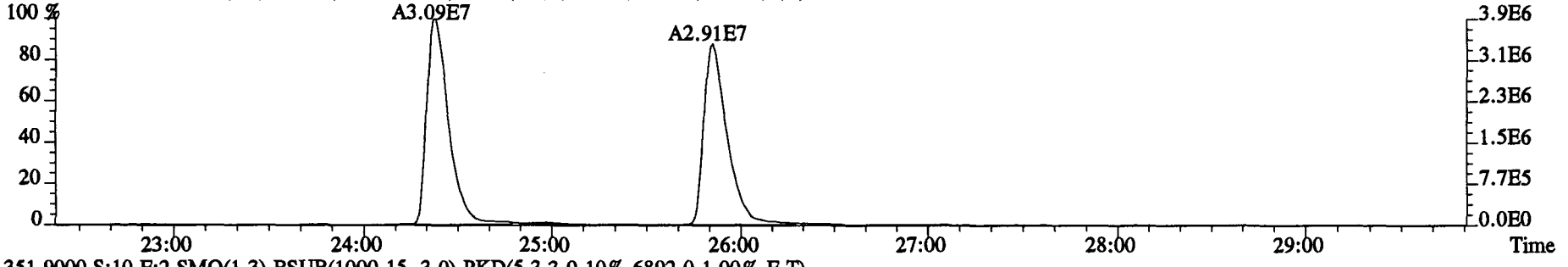


File:17FE104D5 #1-596 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN

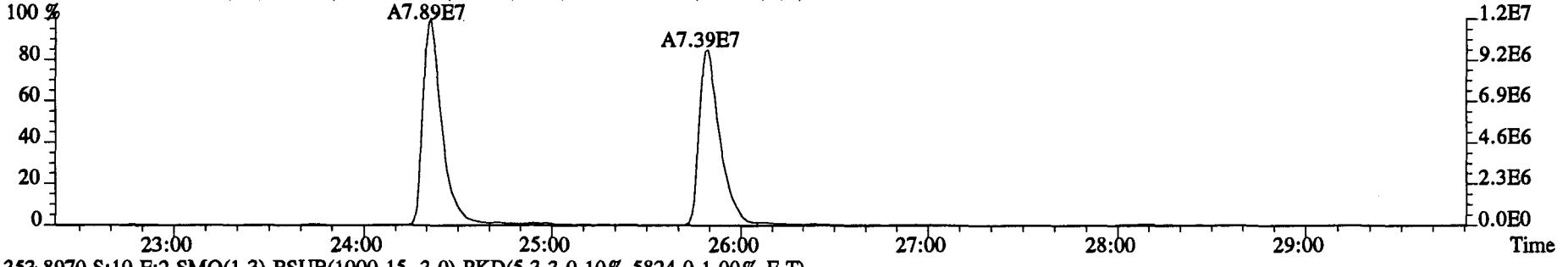
339.8597 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3040.0,1.00%,F,T)



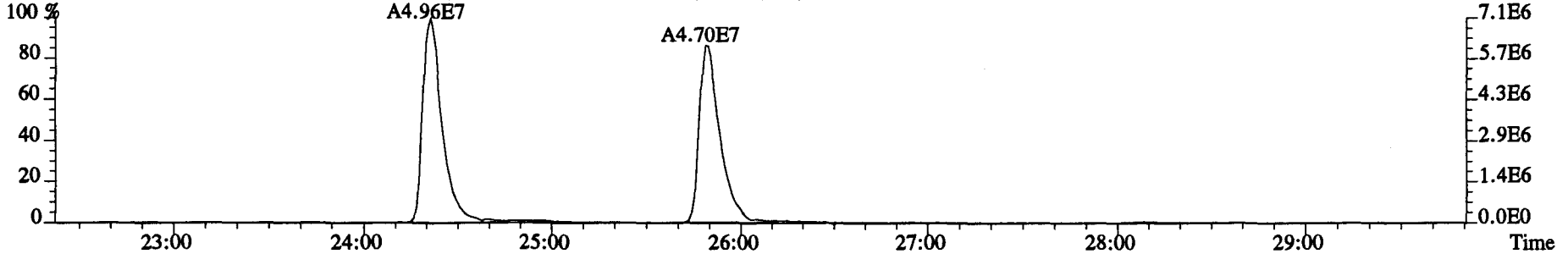
341.8567 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2524.0,1.00%,F,T)



351.9000 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6892.0,1.00%,F,T)

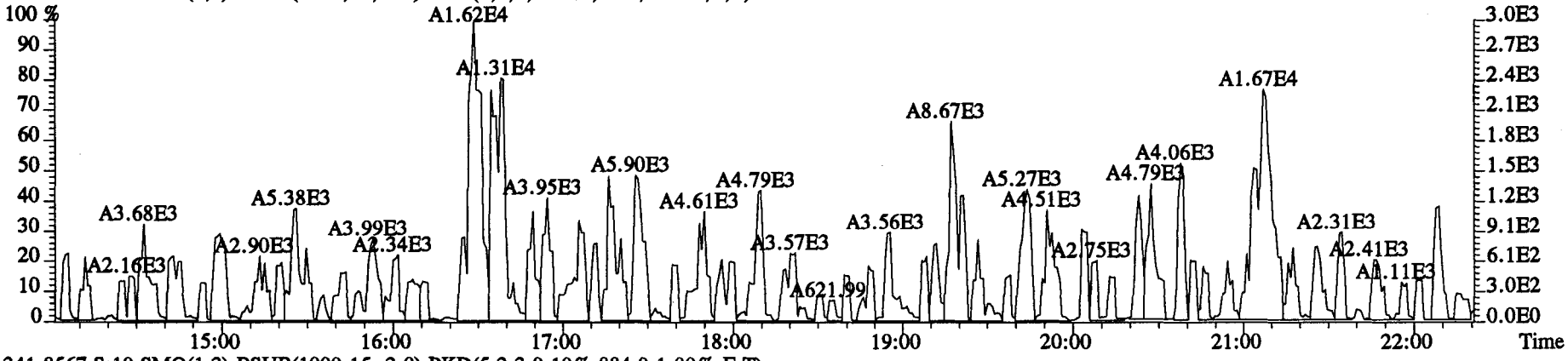


353.8970 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5824.0,1.00%,F,T)

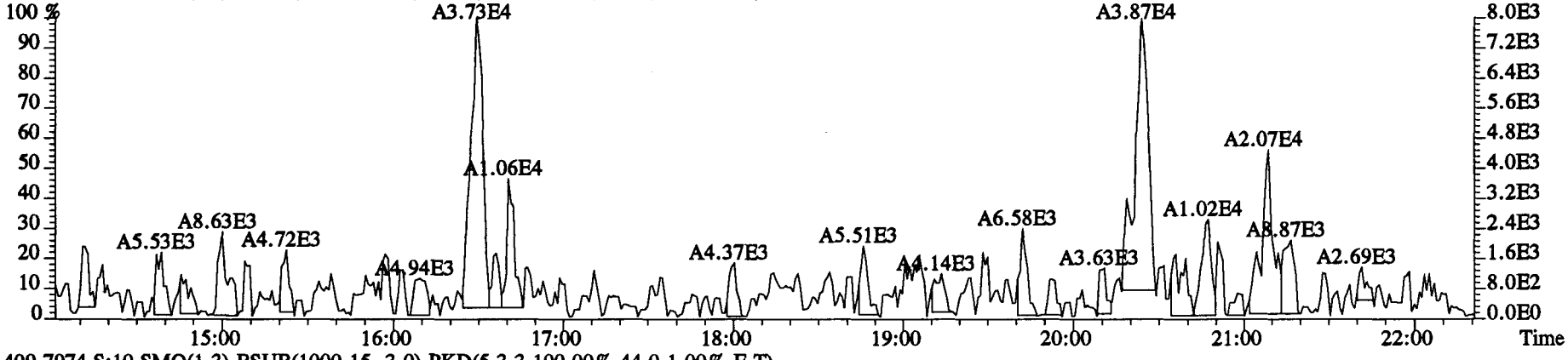


File:17FE104D5 #1-578 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN

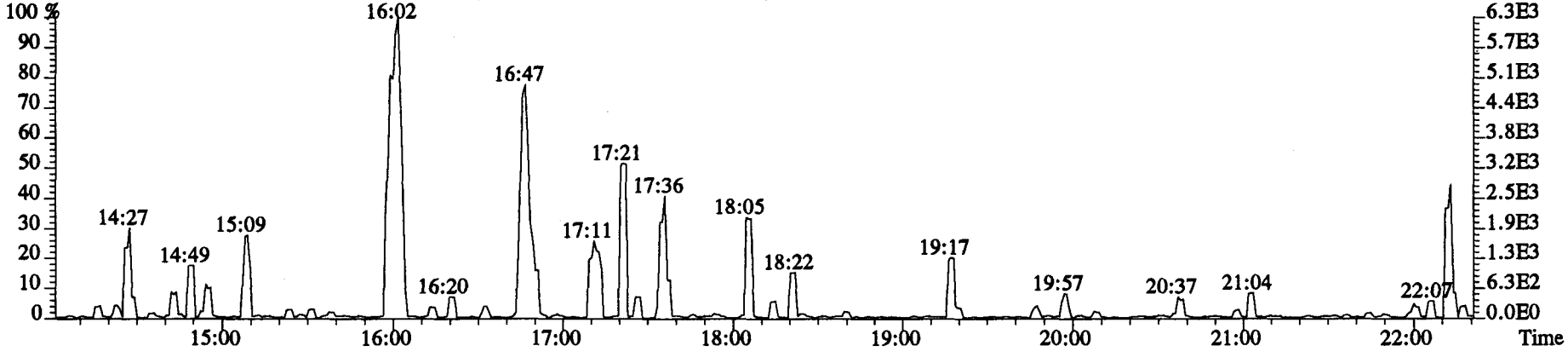
339.8597 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52.0,1.00%,F,T)



341.8567 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,884.0,1.00%,F,T)

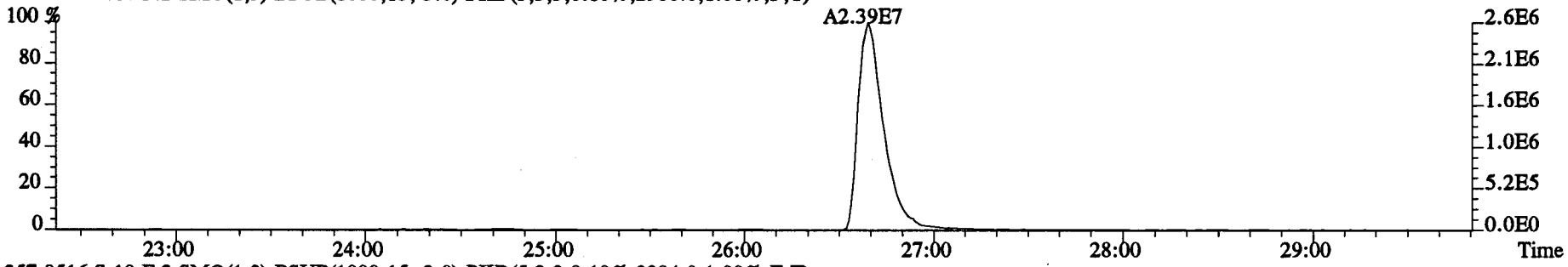


409.7974 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,44.0,1.00%,F,T)

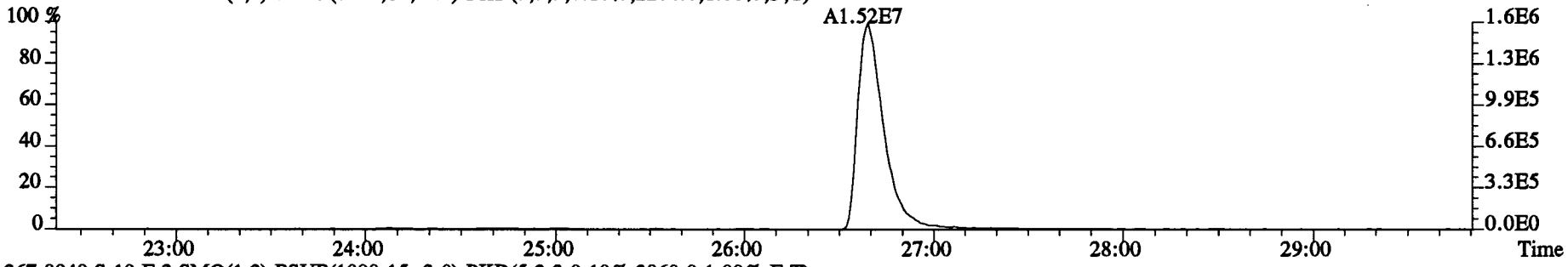


File:17FE104D5 #1-596 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN

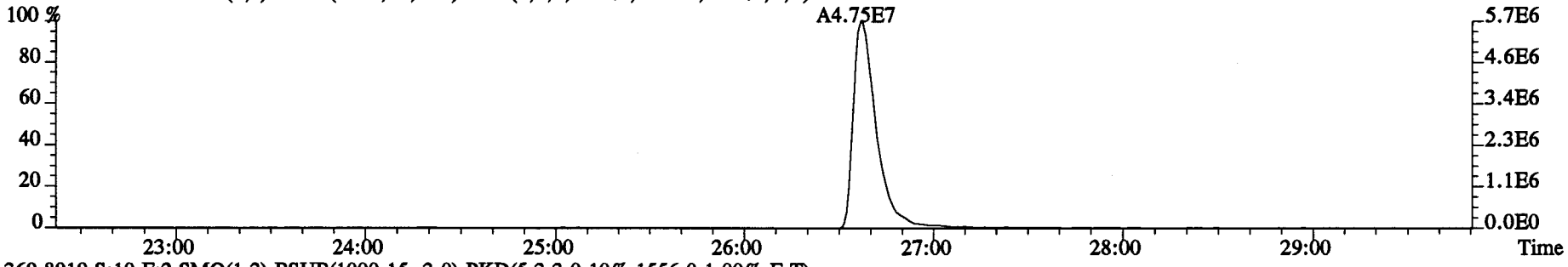
355.8546 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2980.0,1.00%,F,T)



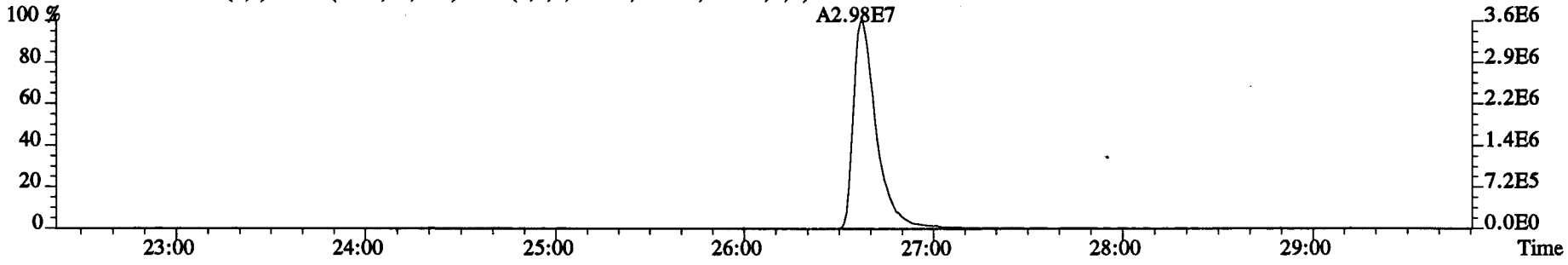
357.8516 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2284.0,1.00%,F,T)



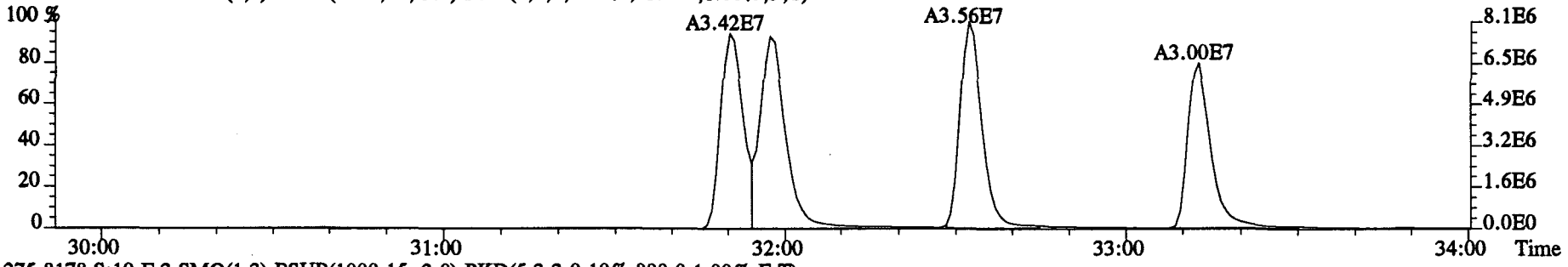
367.8949 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2860.0,1.00%,F,T)



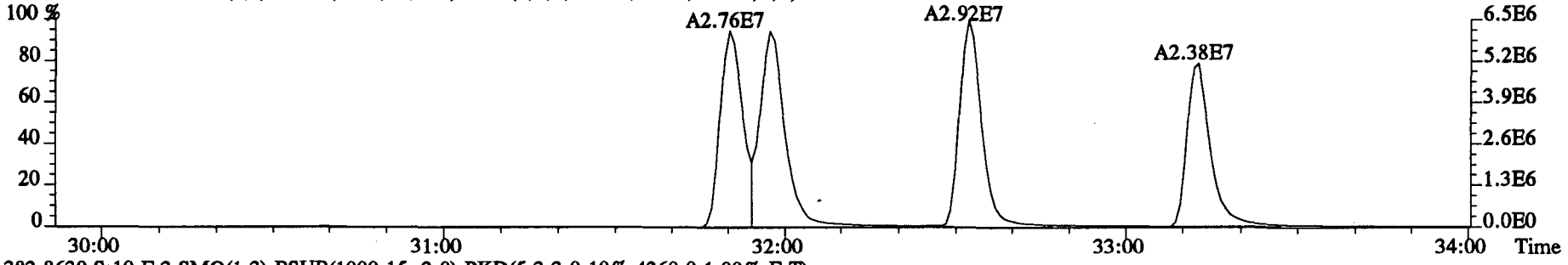
369.8919 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1556.0,1.00%,F,T)



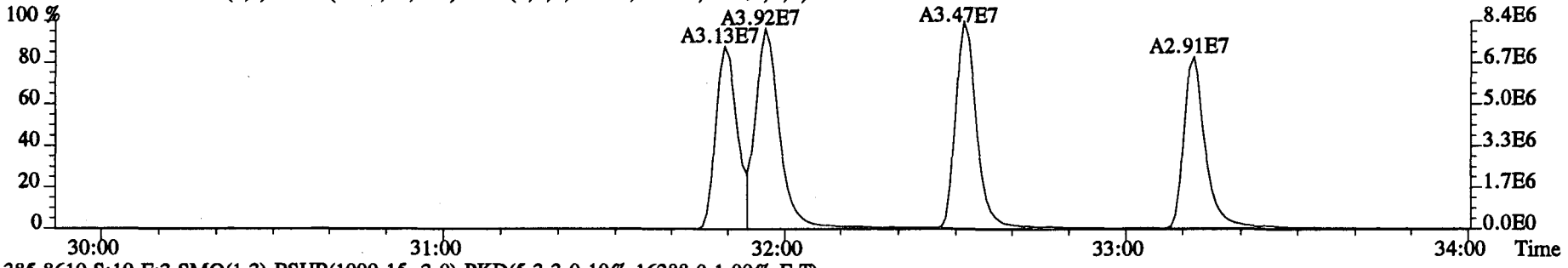
File:17FE104D5 #1-314 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN
373.8208 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1220.0,1.00%,F,T)



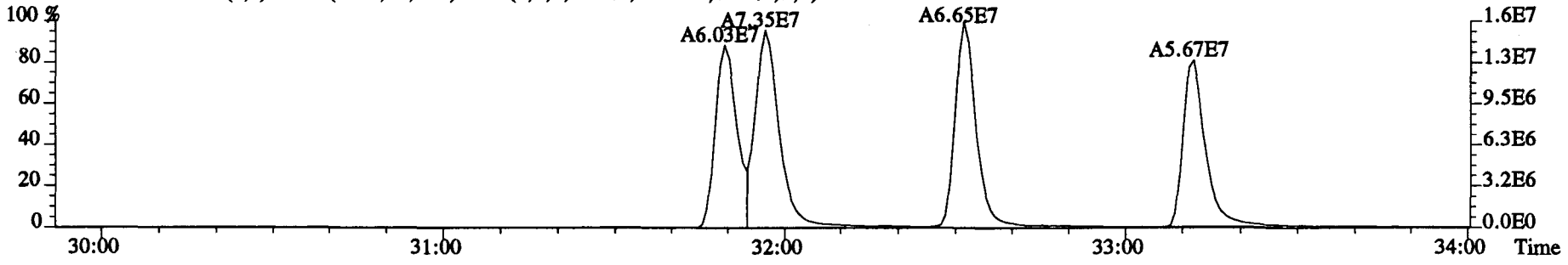
375.8178 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,888.0,1.00%,F,T)



383.8639 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4260.0,1.00%,F,T)

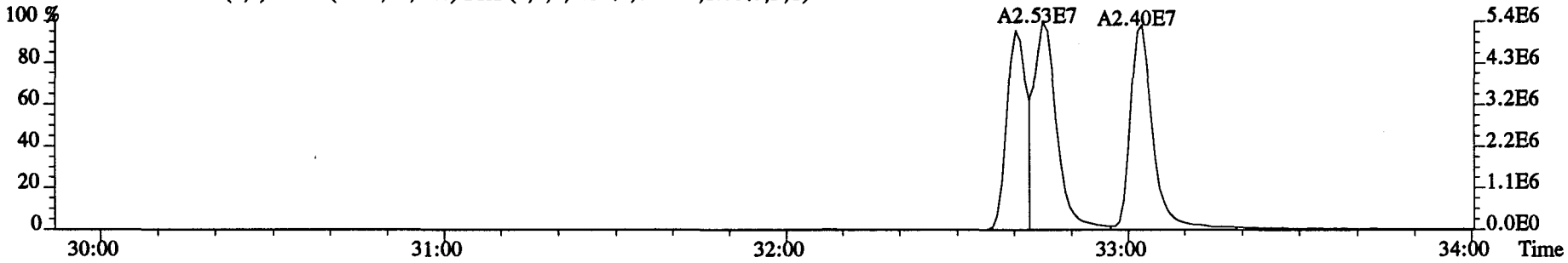


385.8610 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16288.0,1.00%,F,T)

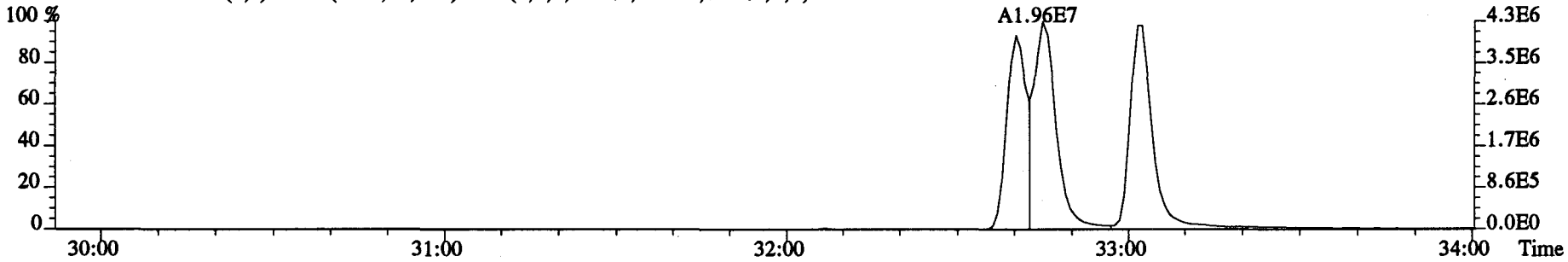


File:17FE104D5 #1-314 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN

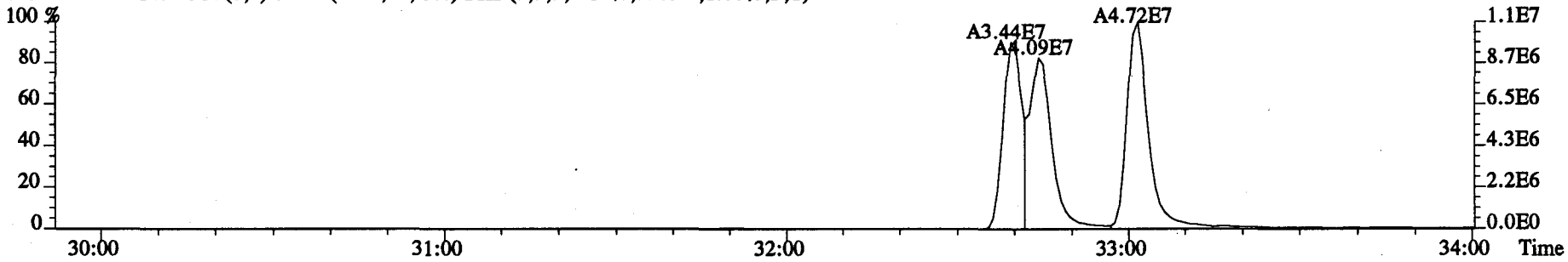
389.8157 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1632.0,1.00%,F,T)



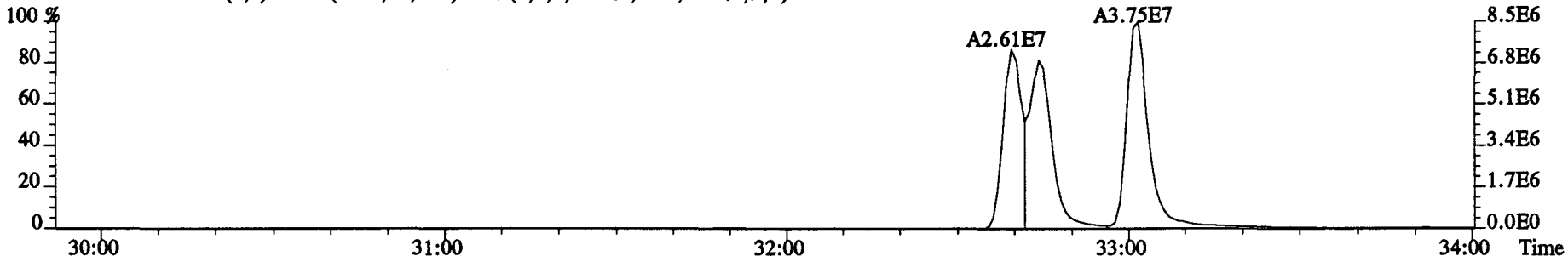
391.8127 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1236.0,1.00%,F,T)



401.8559 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2212.0,1.00%,F,T)

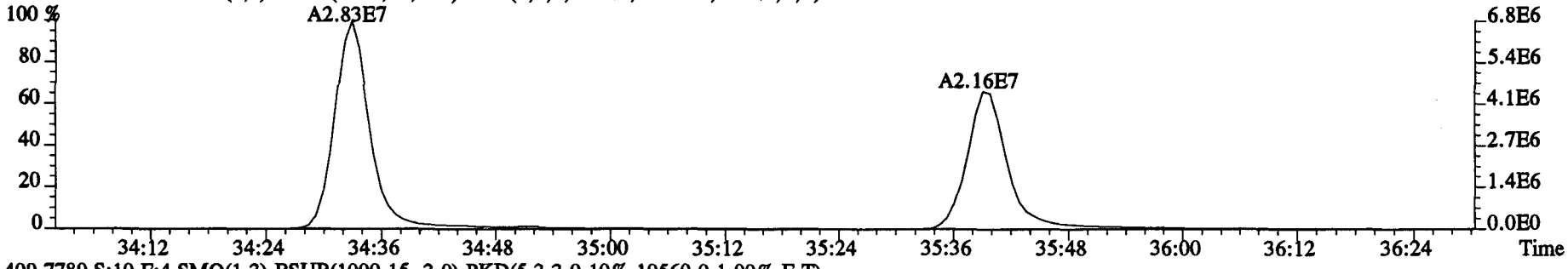


403.8529 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,40.0,1.00%,F,T)

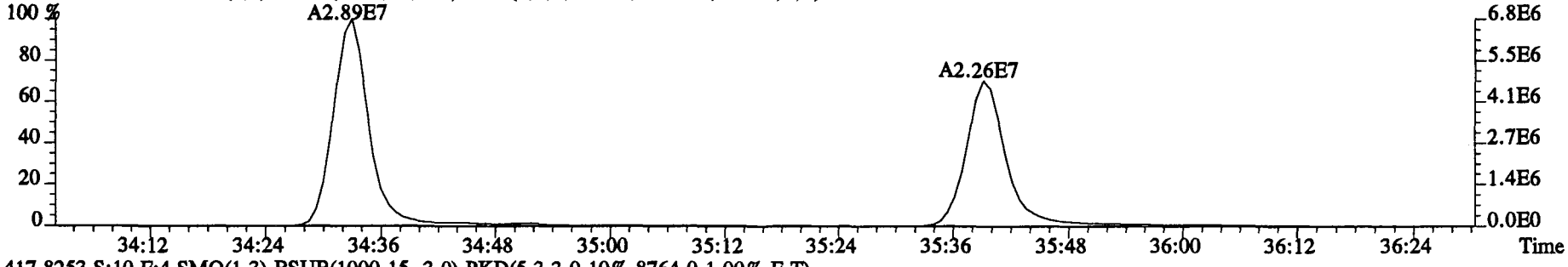


File:17FE104D5 #1-198 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN

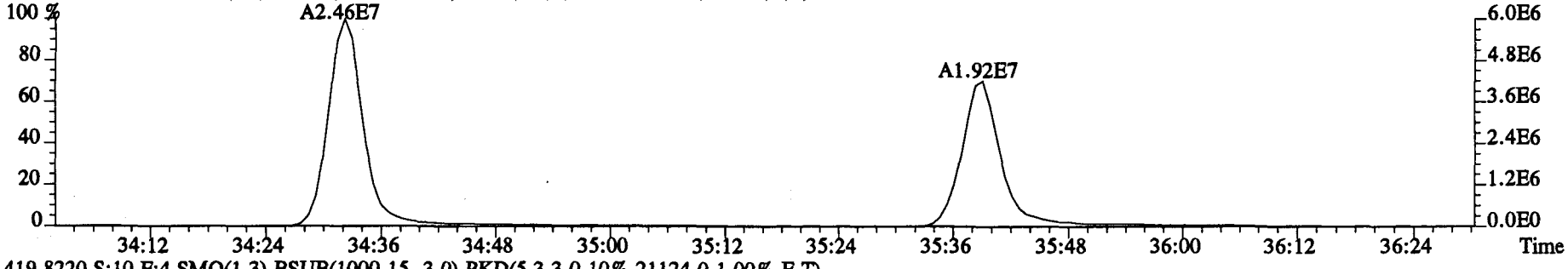
407.7818 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10716.0,1.00%,F,T)



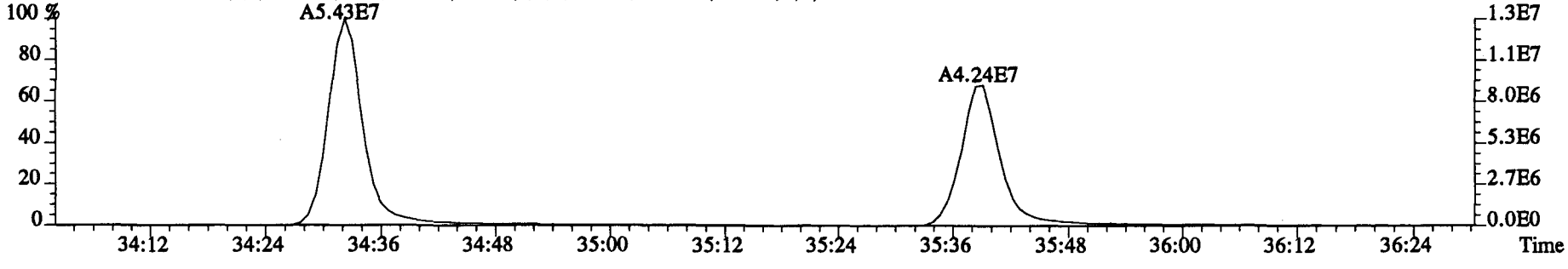
409.7789 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10560.0,1.00%,F,T)



417.8253 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8764.0,1.00%,F,T)

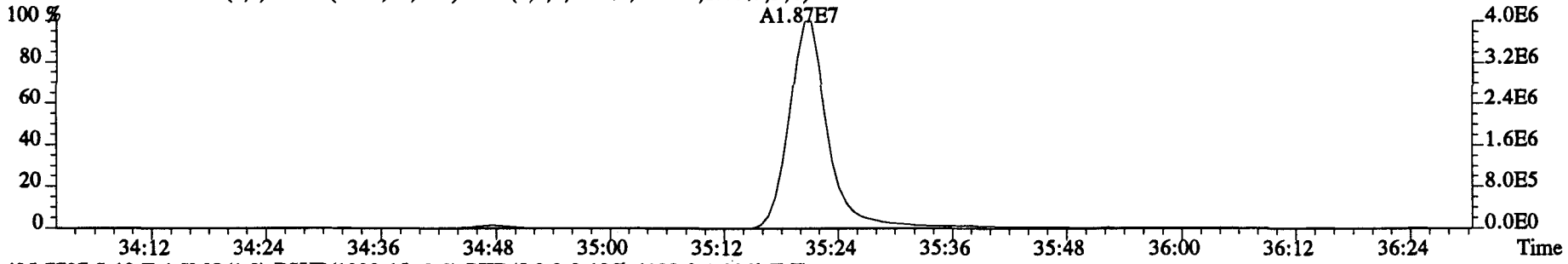


419.8220 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21124.0,1.00%,F,T)

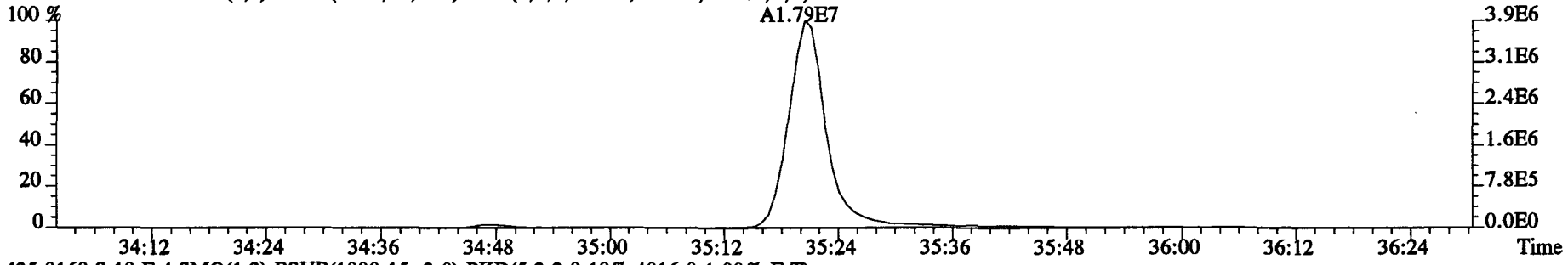


File:17FE104D5 #1-198 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN

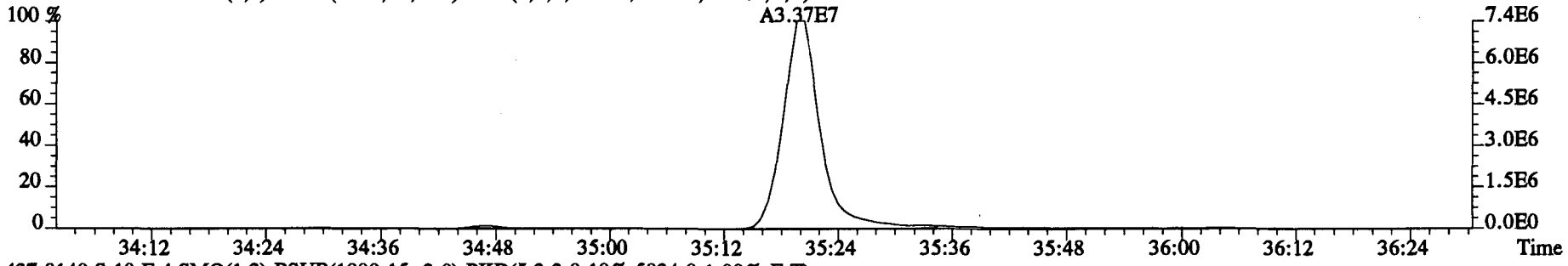
423.7766 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5740.0,1.00%,F,T)



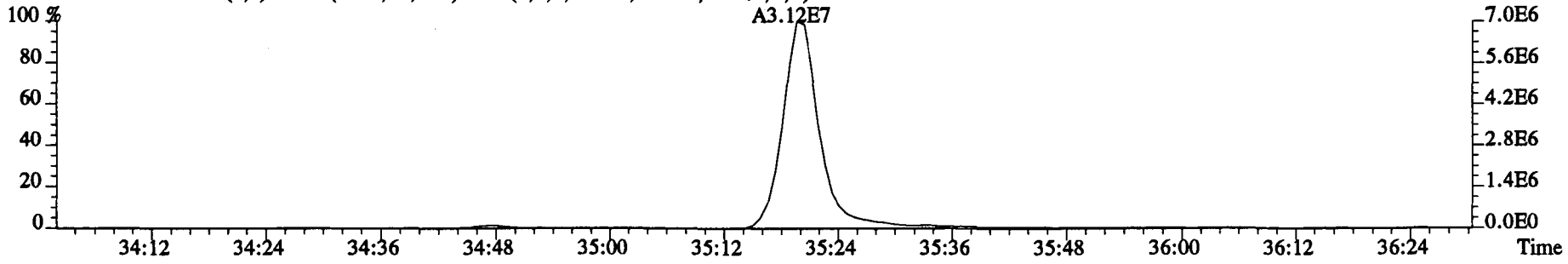
425.7737 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4188.0,1.00%,F,T)



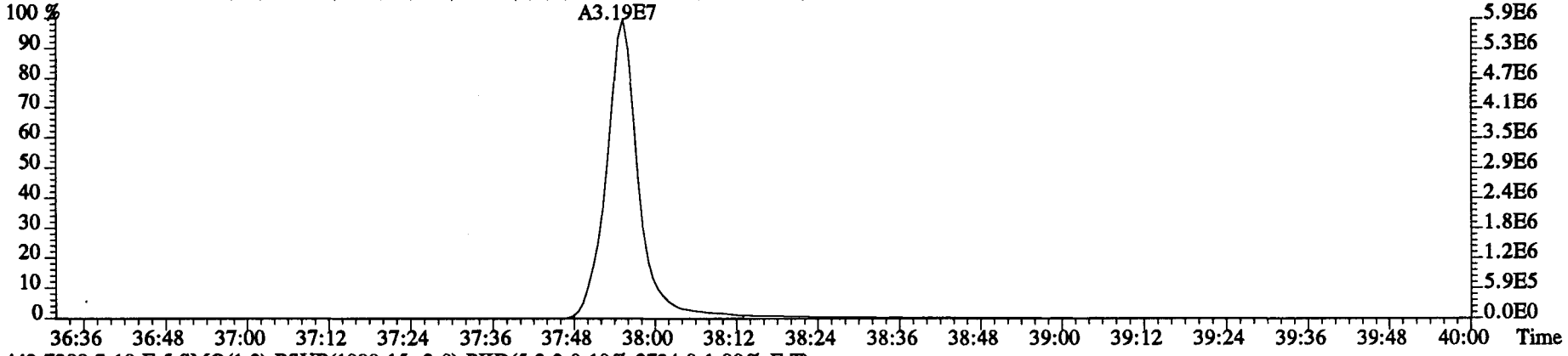
435.8169 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4916.0,1.00%,F,T)



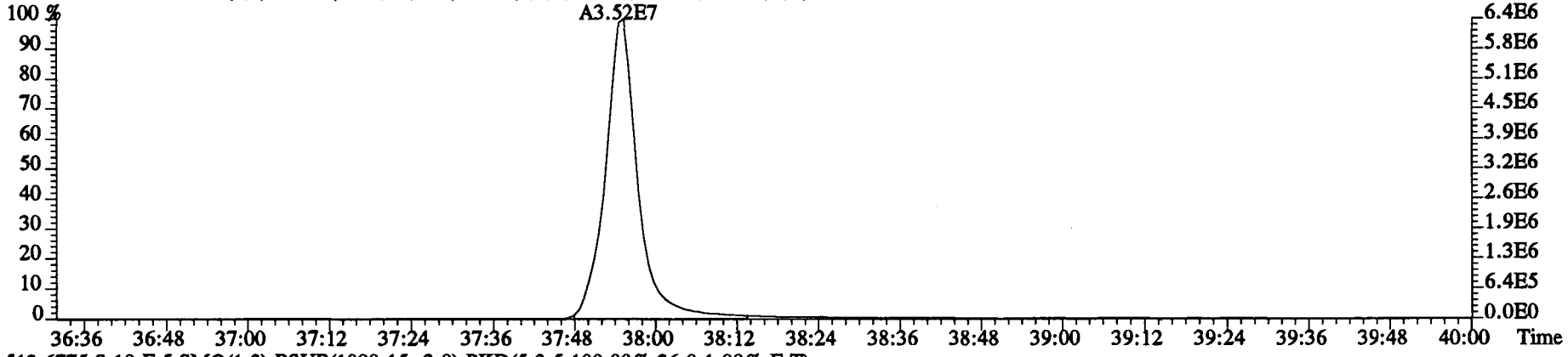
437.8140 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5824.0,1.00%,F,T)



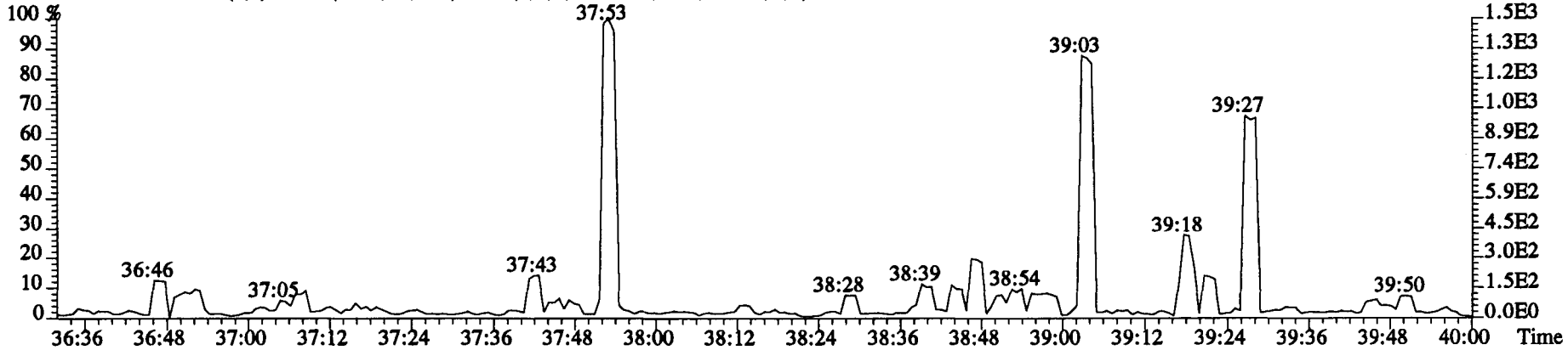
File:17FE104D5 #1-281 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN
441.7428 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2212.0,1.00%,F,T)



443.7399 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2724.0,1.00%,F,T)

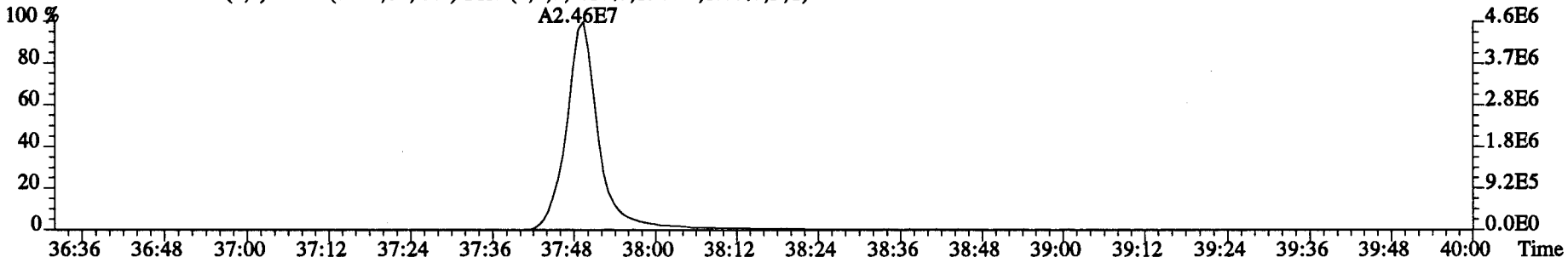


513.6775 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,36.0,1.00%,F,T)

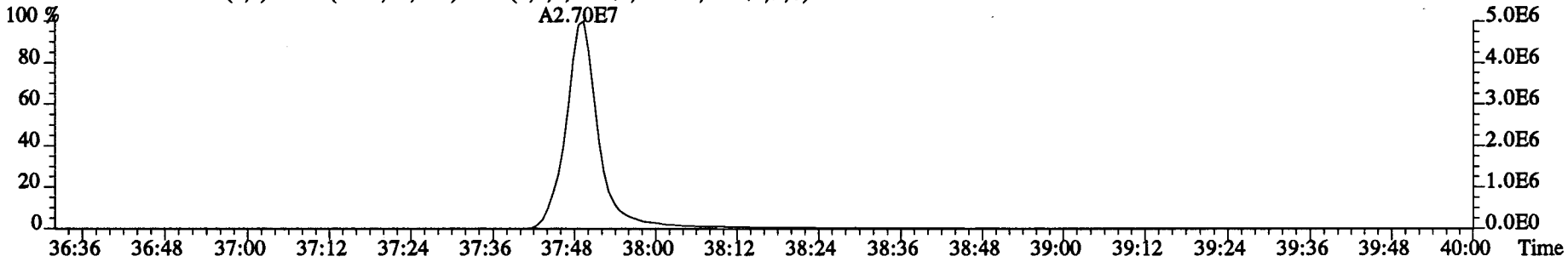


File:17FE104D5 #1-281 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN

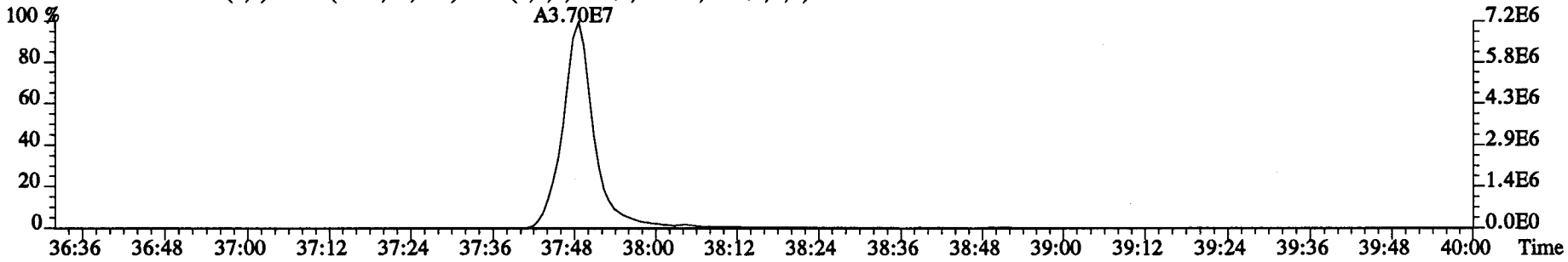
457.7377 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1540.0,1.00%,F,T)



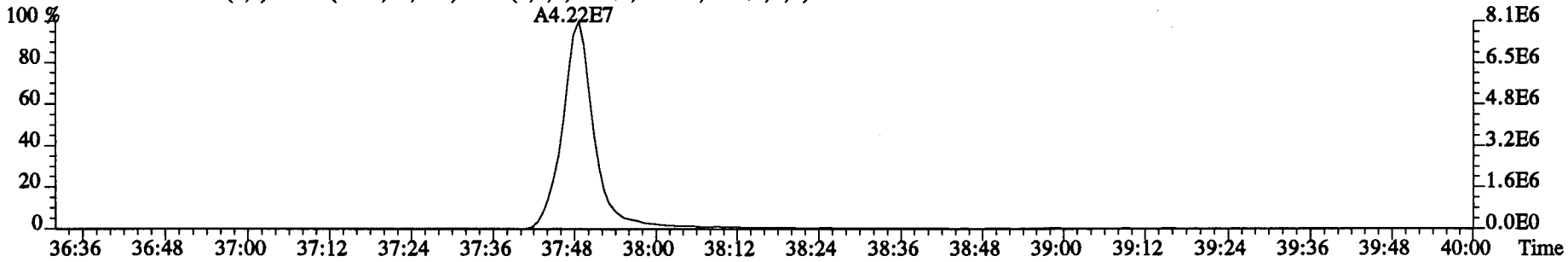
459.7348 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1936.0,1.00%,F,T)



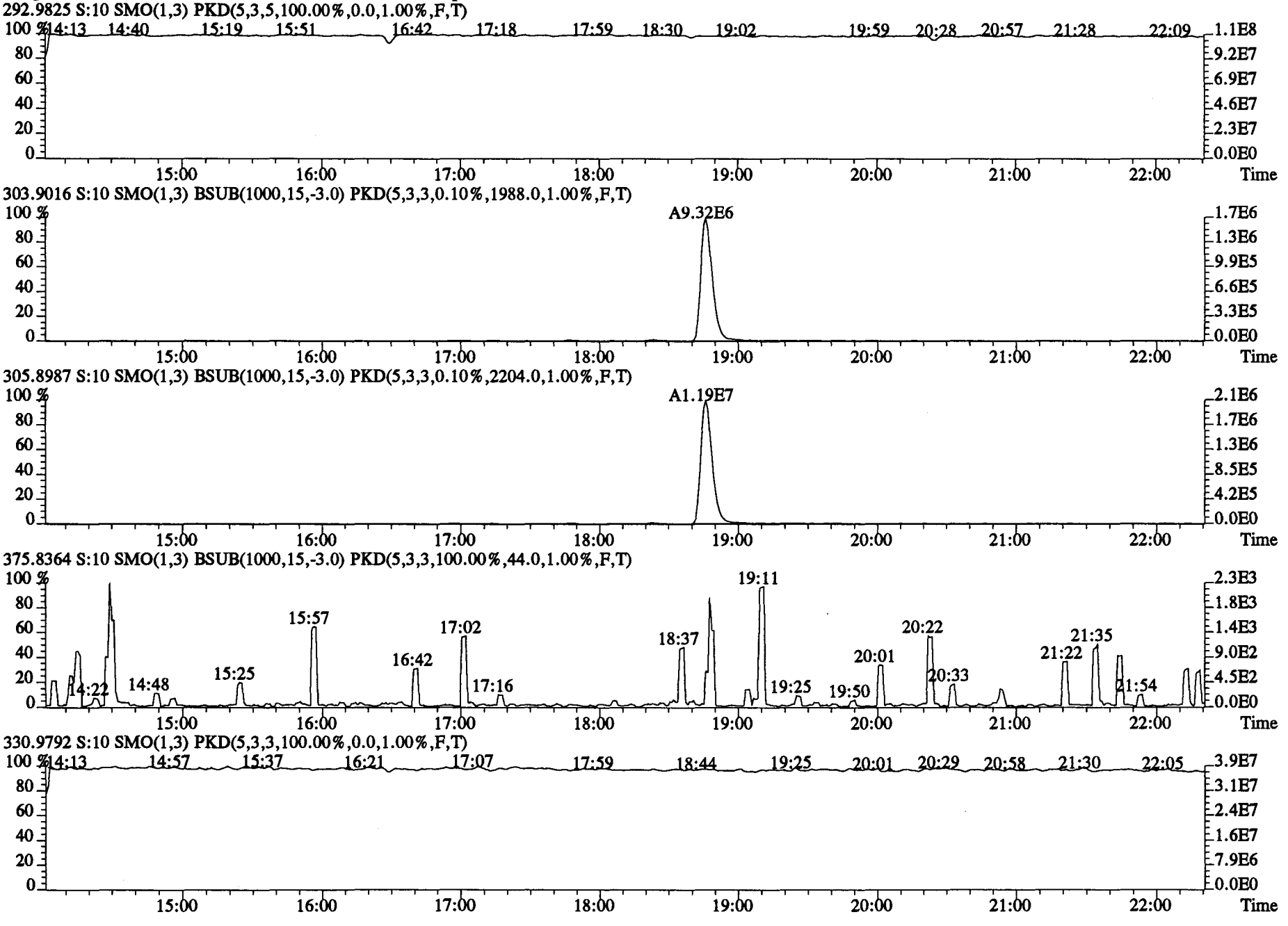
469.7779 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6264.0,1.00%,F,T)



471.7750 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3760.0,1.00%,F,T)

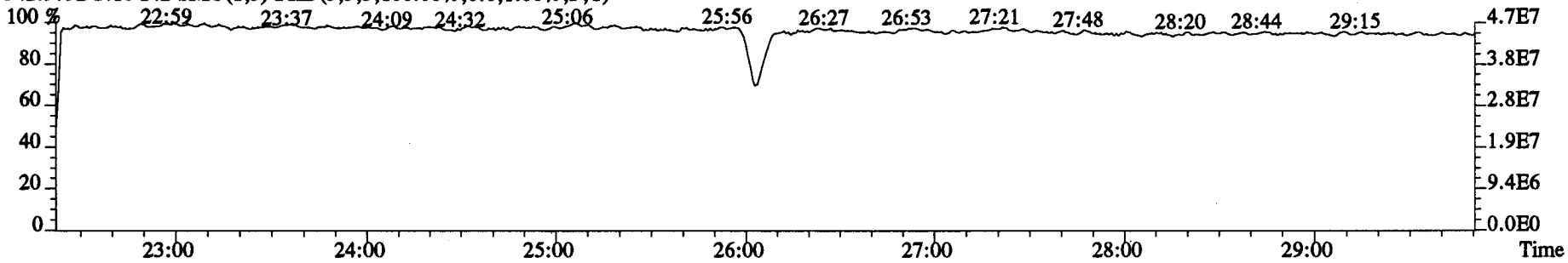


File:17FE104D5 #1-578 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN

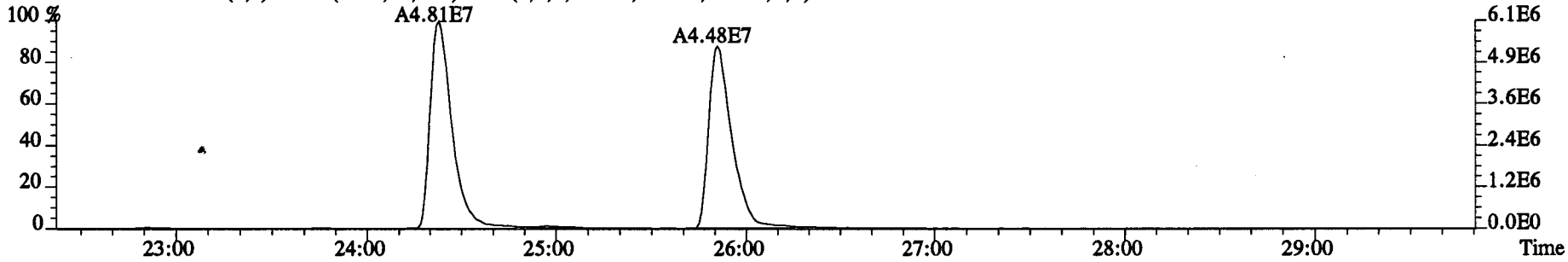


File:17FE104D5 #1-596 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN

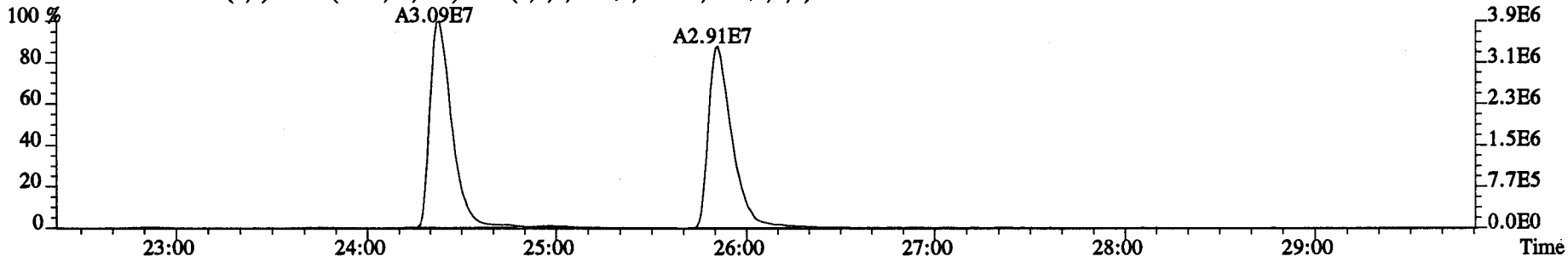
342.9792 S:10 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



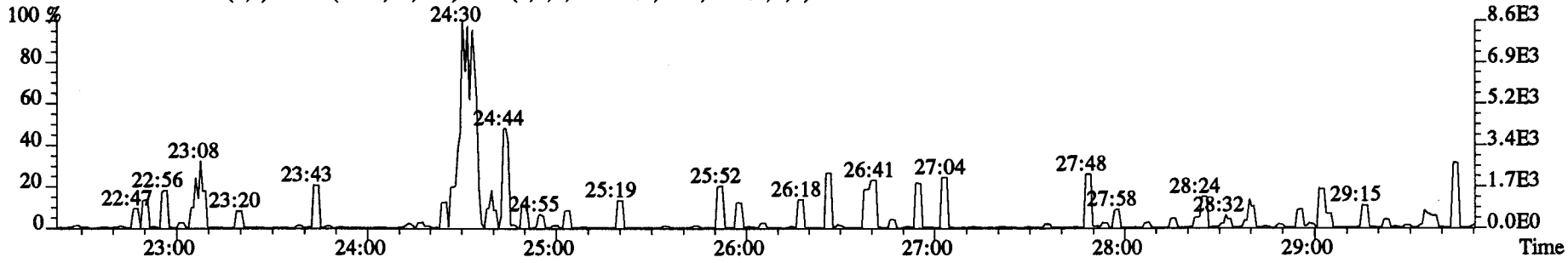
339.8597 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3040.0,1.00%,F,T)



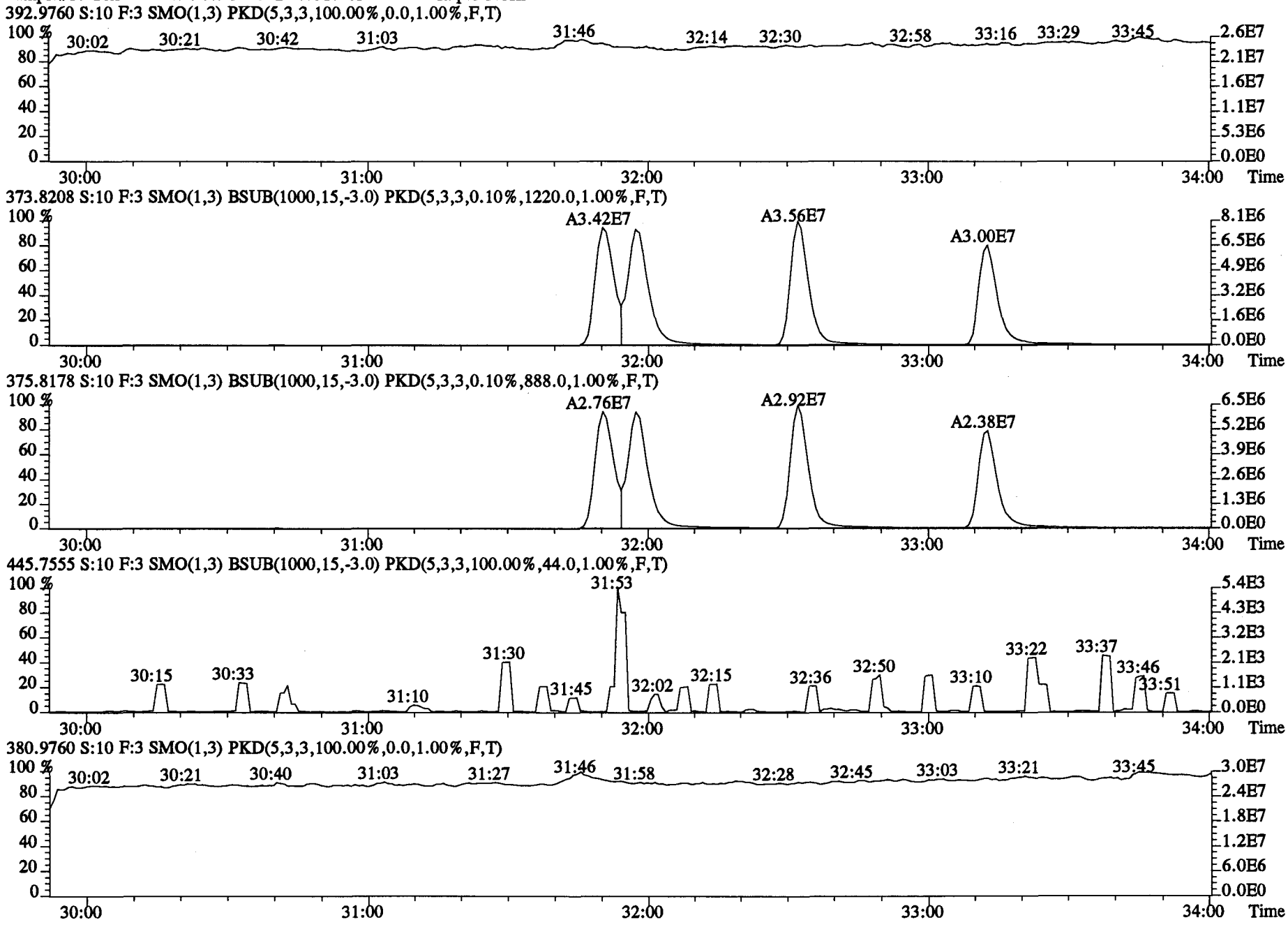
341.8567 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2524.0,1.00%,F,T)



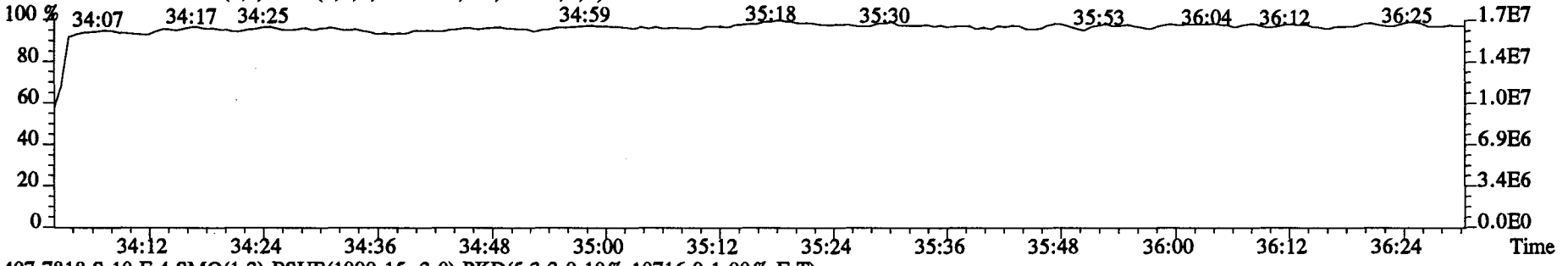
409.7974 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,36.0,1.00%,F,T)



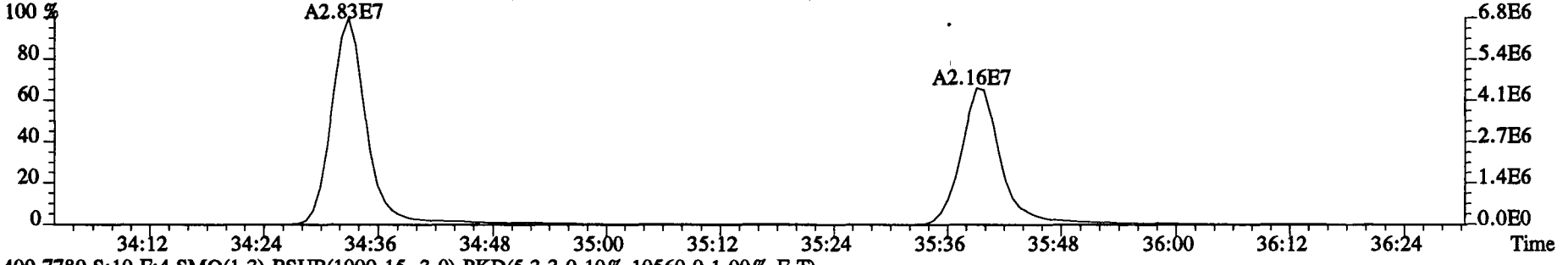
File:17FE104D5 #1-314 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN



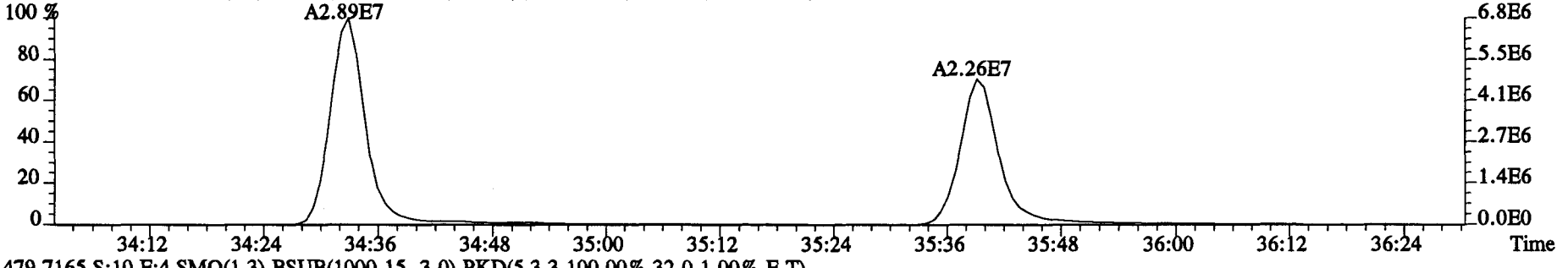
File:17FE104D5 #1-198 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN
430.9728 S:10 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



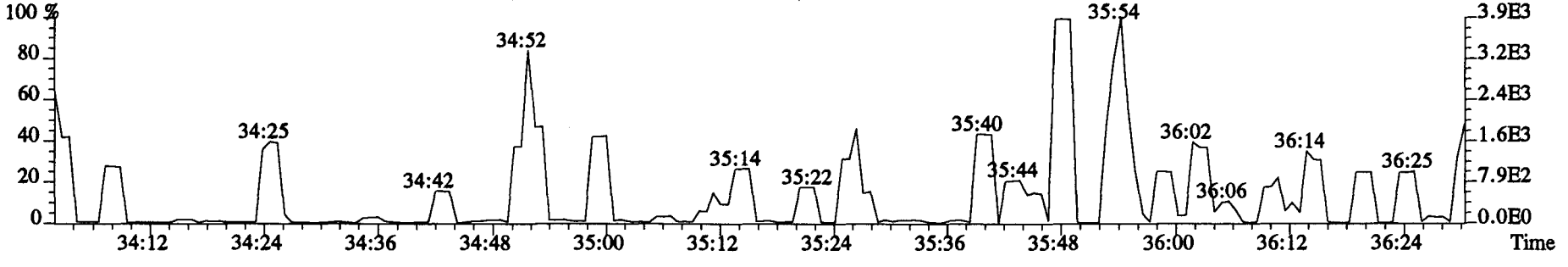
407.7818 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10716.0,1.00%,F,T)



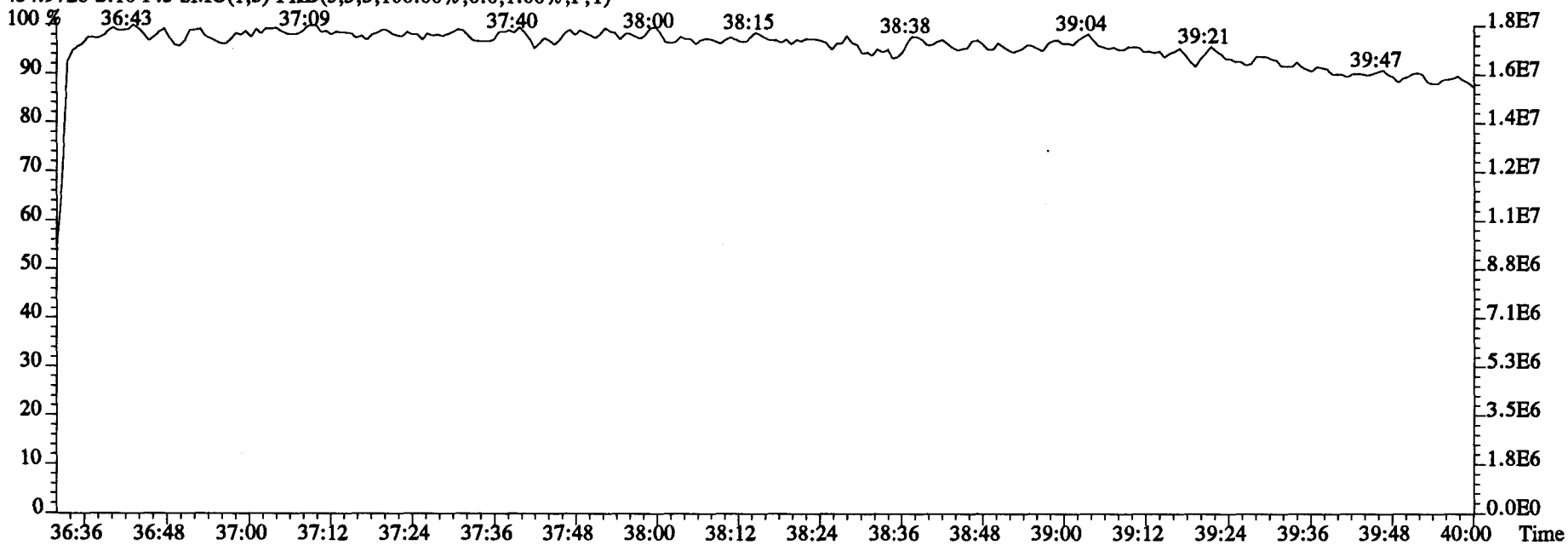
409.7789 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10560.0,1.00%,F,T)



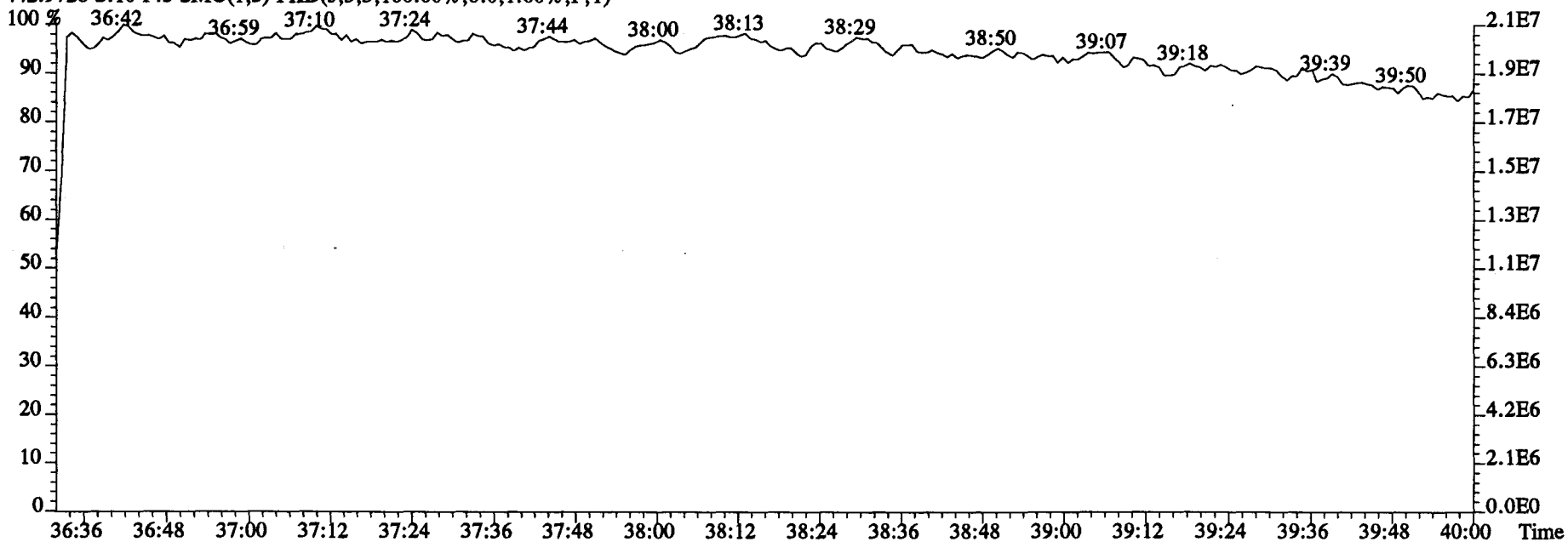
479.7165 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,32.0,1.00%,F,T)



File:17FE104D5 #1-281 Acq:17-FEB-2010 16:10:06 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 Text:LT76X-1-ADD :G0B040517-4D Exp:DIOXIN
454.9728 S:10 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:10 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: LT769-1-AA Sample text: LT769-1-AA :G0B040517-10
Run #15 Filename: 17FE104D5 S: 11 I: 1 Results: 17FE104D58290
Acquired: 17-FEB-10 16:54:08 Processed: 17-FEB-10 19:35:03
Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.055500L

AK 2/23/10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	130597000	0.82	y	19:17	-	74.33	-	-	n
13C-2,3,7,8-TCDF	191195600	0.80	y	18:44	1.57	1766.42	1.07	93.2	n
2,3,7,8-TCDF	18387	1.69	n	18:48	1.05	~~0.17~~	0.46	-	n
Total TCDF	140389	0.31	n	18:21	1.05	~~1.32~~	0.46	-	n
13C-2,3,7,8-TCDD	117846000	0.80	y	19:31	1.00	1708.34	1.72	90.2	n
2,3,7,8-TCDD	111920	0.45	n	19:34	1.05	1.71 SQ	0.87	-	n
Total TCDD	111920	0.45	n	19:34	1.05	1.71	0.87	-	n
37Cl-2,3,7,8-TCDD	120629600	1.00	y	19:32	2.42	724.51	0.04	95.6	n
13C-1,2,3,7,8-PeCDF	133443400	1.59	y	24:21	1.34	1448.49	1.79	76.4	n
1,2,3,7,8-PeCDF	21937	1.04	n	24:21	1.07	~~0.29~~	0.60	-	n
2,3,4,7,8-PeCDF	7006	9.97	n	25:55	1.04	~~0.10~~	0.62	-	n
Total F2 PeCDF	82769	1.44	y	22:50	1.05	~~1.11~~	~~0.61~~	-	n
Total F1 PeCDF	129000	2.00	n	14:18	1.05	~~1.74~~	~~0.25~~ 0.62	-	n
13C-1,2,3,7,8-PeCDD	78955800	1.58	y	26:37	0.81	1410.69	0.73	74.4	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	1.04	*	1.75	-	n
Total PeCDD	111518	1.51	y	24:43	1.04	~~2.58~~	1.75	-	n
13C-1,2,3,7,8,9-HxCDD	78525000	1.30	y	33:01	-	45.61	-	-	n
13C-1,2,3,4,7,8-HxCDF	84335600	0.51	y	31:49	1.01	2005.83	6.63	105.9	n
1,2,3,4,7,8-HxCDF	39161	1.44	n	31:51	1.24	0.71 SQ	0.61	-	n
1,2,3,6,7,8-HxCDF	44143	1.04	n	31:59	1.49	0.67 SQ	0.50	-	n
2,3,4,6,7,8-HxCDF	40525	1.25	y	32:34	1.34	0.68 S	0.56	-	n
1,2,3,7,8,9-HxCDF	34798	0.91	n	33:12	1.22	0.64 SQ	0.62	-	n
Total HxCDF	165896	1.44	n	31:51	1.32	~~2.82~~ 2.70	0.57	-	n
13C-1,2,3,6,7,8-HxCDD	64866900	1.31	y	32:44	0.88	1770.93	0.79	93.5	n
1,2,3,4,7,8-HxCDD	25538	2.22	n	32:42	0.90	~~0.83~~	1.48	-	n
1,2,3,6,7,8-HxCDD	25538	2.22	n	32:42	1.19	0.63	1.13	-	n
1,2,3,7,8,9-HxCDD	18508	1.93	n	33:02	1.16	0.47	1.16	-	n
Total HxCDD	67174	4.23	n	31:49	1.08	~~1.72~~	~~1.24~~ 1.48	-	n
13C-1,2,3,4,6,7,8-HpCDF	79197100	0.45	y	34:32	0.94	2022.73	7.92	106.7	n
1,2,3,4,6,7,8-HpCDF	65952	1.36	n	34:33	1.30	1.21 SQ	0.58	-	n
1,2,3,4,7,8,9-HpCDF	36432	0.93	y	35:40	1.10	0.79 S	0.68	-	n
Total HpCDF	130745	1.36	n	34:33	1.20	✓2.57	0.63	-	n
13C-1,2,3,4,6,7,8-HpCDD	64780800	1.08	y	35:20	0.79	1971.43	5.05	104.0	n
1,2,3,4,6,7,8-HpCDD	70591	0.96	y	35:22	1.06	✓1.96	1.11	-	n
Total HpCDD	128865	1.22	n	34:48	1.06	3.57	1.11	-	n
13C-OCDD	85652600	0.89	y	37:49	0.58	3551.66	4.43	93.7	n

OCDF	101252	0.94	y	37:56	1.56	2.88		0.68	-	n
OCDD	245389	0.92	y	37:49	1.19	9.10		0.90	-	n

Run Text: LT769-1-AA Sample text: LT769-1-AA :G0B040517-10

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:7
Run: 15 File: 17FE104D5 S:11 Acq:17-FEB-10 16:54:08
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1.40 of which	0.18 named and	1.21 unnamed
Conc:	1.32 of which	0.17 named and	1.15 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	18:21	0.31	n	0.07	3176	0.9	n	n
						10270	1.8	n	n
2,3,7,8-TCDF	2	18:48	1.69	n	0.17	17594	3.6	y	n
						10388	1.5	n	n
	3	19:13	1.31	n	0.08	6348	1.7	n	n
						4844	1.0	n	n
	4	19:41	0.30	n	0.23	10653	3.0	y	n
						35996	4.2	y	n
	5	20:02	0.95	n	0.14	8113	2.2	n	n
						8503	1.7	n	n
	6	21:04	0.54	n	0.35	16200	3.3	y	n
						29890	3.5	y	n
	7	22:05	0.33	n	0.28	12769	2.7	n	n
						38994	5.0	y	n

Run Text: LT769-1-AA Sample text: LT769-1-AA :G0B040517-10

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:1
Run: 15 File: 17FE104D5 S:11 Acq:17-FEB-10 16:54:08
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1.80 of which	1.80 named and	*	unnamed
Conc:	1.71 of which	1.71 named and	*	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
2,3,7,8-TCDD	1	19:34	0.45	n	1.71	48688	7.5	y	n
						108083	8.5	y	n

Run Text: LT769-1-AA Sample text: LT769-1-AA :G0B040517-10

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:8
Run: 15 File: 17FE104D5 S:11 Acq:17-FEB-10 16:54:08
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1.17 of which	0.41 named and	0.77 unnamed		
Conc:	1.11 of which	0.39 named and	0.73 unnamed		

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	22:50	1.44	y	0.16	7198	2.6	n	n
						5007	1.5	n	n
	2	22:56	0.35	n	0.04	1733	0.9	n	n
						5007	1.5	n	n
	3	24:13	0.53	n	0.08	3599	2.3	n	n
						6785	1.6	n	n
1,2,3,7,8-PeCDF	4	24:21	1.04	n	0.29	13334	8.2	y	n
						12810	2.5	n	n
	5	24:26	3.94	n	0.25	28245	7.9	y	n
						7165	1.6	n	n
	6	24:34	0.73	n	0.06	2760	1.6	n	n
						3800	1.1	n	n
2,3,4,7,8-PeCDF	7	25:55	9.97	n	0.10	27379	7.9	y	n
						2747	1.6	n	n
	8	26:04	0.14	n	0.14	6101	2.4	n	n
						43174	6.0	y	n

Run Text: LT769-1-AA Sample text: LT769-1-AA :G0B040517-10

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:20
Run: 15 File: 17FE104D5 S:11 Acq:17-FEB-10 16:54:08
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1.84 of which	* named and	1.84	unnamed	
Conc:	1.74 of which	* named and	1.74	unnamed	

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:18	2.00	n	0.11	6406	25.9	y	n
						3201	1.4	n	n
	2	15:15	1.00	n	0.06	2818	24.1	y	n
						2831	1.1	n	n
	3	15:36	0.87	n	0.10	4490	38.8	y	n
						5172	1.7	n	n
	4	16:16	0.38	n	0.03	1230	9.5	y	n
						3210	1.6	n	n
	5	16:29	0.44	n	0.31	14178	72.4	y	n
						32155	10.1	y	n
	6	16:43	0.26	n	0.06	2690	18.4	y	n
						10388	1.9	n	n
	7	17:02	1.20	n	0.11	5033	48.0	y	n
						4179	1.7	n	n
	8	17:10	0.32	n	0.07	3344	31.5	y	n
						10407	2.4	n	n
	9	18:12	0.84	n	0.15	6775	40.7	y	n
						8103	2.2	n	n
	10	18:25	0.21	n	0.04	1579	13.4	y	n
						7628	2.0	n	n
	11	18:31	0.58	n	0.06	2889	18.9	y	n
						4984	1.6	n	n
	12	18:36	0.30	n	0.03	1491	13.0	y	n
						4984	1.6	n	n
	13	18:44	0.53	n	0.08	3530	20.8	y	n
						6702	3.2	y	n
	14	18:51	0.43	n	0.06	2581	17.5	y	n
						6033	2.0	n	n
	15	19:16	1.62	y	0.10	4380	30.5	y	n
						2699	1.3	n	n
	16	20:25	0.08	n	0.09	3901	26.7	y	n

					47511	11.8	y	n
17	20:31	0.36	n	0.06	2708	22.7	y	n
					7463	3.0	n	n
18	21:34	0.34	n	0.05	2231	16.9	y	n
					6508	2.6	n	n
19	22:01	0.10	n	0.03	1335	12.7	y	n
					13416	2.7	n	n
20	22:12	1.09	n	0.14	6345	35.1	y	n
					5822	1.6	n	n

Run Text: LT769-1-AA Sample text: LT769-1-AA :G0B040517-10

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:2
Run: 15 File: 17FE104D5 S:11 Acq:17-FEB-10 16:54:08
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2.72 of which	* named and	2.72	unnamed
Conc:	2.58 of which	* named and	2.58	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	24:43	1.51	y	1.64	42746	3.2	y	n
						28258	4.5	y	n
	2	25:59	3.63	n	0.94	57753	5.6	y	n
						15888	2.7	n	n

Run Text: LT769-1-AA Sample text: LT769-1-AA :G0B040517-10

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:5
Run: 15 File: 17FE104D5 S:11 Acq:17-FEB-10 16:54:08
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2.98 of which	2.85 named and	0.13	unnamed
Conc:	2.82 of which	2.70 named and	0.12	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,7,8-HxCDF	1	31:51	1.44	n	0.71	25185	5.4	y	n
						17482	3.1	y	n
1,2,3,6,7,8-HxCDF	2	31:59	1.04	n	0.67	24436	2.9	n	n
						23459	4.2	y	n
	3	32:05	0.68	n	0.12	4024	1.0	n	n
						5899	2.1	n	n
2,3,4,6,7,8-HxCDF	4	32:34	1.25	y	0.68	22485	3.0	n	n
						18040	4.5	y	n
1,2,3,7,8,9-HxCDF	5	33:12	0.91	n	0.64	19263	2.7	n	n
						21276	4.2	y	n

Run Text: LT769-1-AA Sample text: LT769-1-AA :G0B040517-10

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:4
Run: 15 File: 17FE104D5 S:11 Acq:17-FEB-10 16:54:08
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1.81 of which	1.15 named and	0.66	unnamed
Conc:	1.72 of which	1.09 named and	0.62	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	31:49	4.23	n	0.22	15398	2.4	n	n
						3637	1.0	n	n
1,2,3,6,7,8-HxCDD	2	32:42	2.22	n	0.63	25287	2.3	n	n
						11401	3.0	n	n
1,2,3,7,8,9-HxCDD	3	33:02	1.93	n	0.47	15957	2.1	n	n
						8262	2.1	n	n
	4	33:32	1.94	n	0.40	12947	1.8	n	n
						6688	1.1	n	n

Run Text: LT769-1-AA Sample text: LT769-1-AA :G0B040517-10

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:3
Run: 15 File: 17FE104D5 S:11 Acq:17-FEB-10 16:54:08
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	2.71 of which	2.12 named and	0.60 unnamed
Conc:	2.57 of which	2.01 named and	0.57 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:33	1.36	n	1.21	44018	5.6	y	n
						32330	9.4	y	n
	2	34:52	0.87	n	0.57	14459	3.7	y	n
						16695	4.8	y	n
1,2,3,4,7,8,9-HpCDF	3	35:40	0.93	y	0.79	17513	3.8	y	n
						18919	5.2	y	n

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Run Text: LT769-1-AA Sample text: LT769-1-AA :G0B040517-10

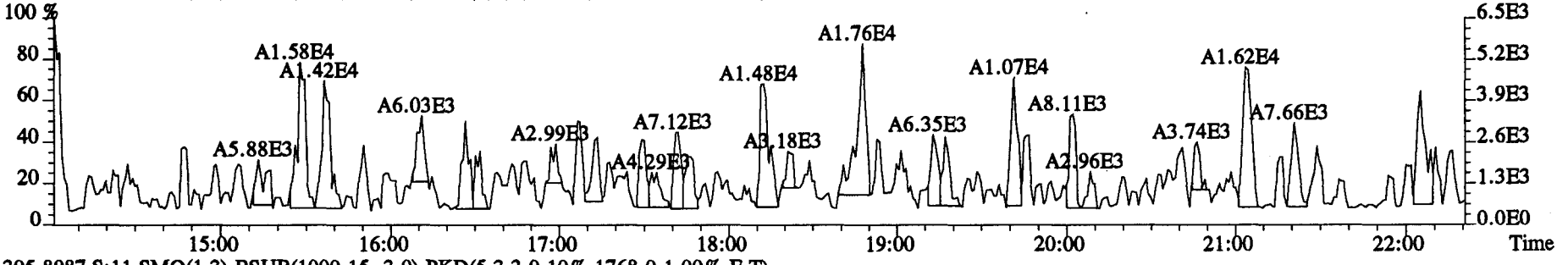
Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:2
Run: 15 File: 17FE104D5 S:11 Acq:17-FEB-10 16:54:08
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	3.77 of which	2.06 named and	1.70 unnamed
Conc:	3.57 of which	1.96 named and	1.61 unnamed

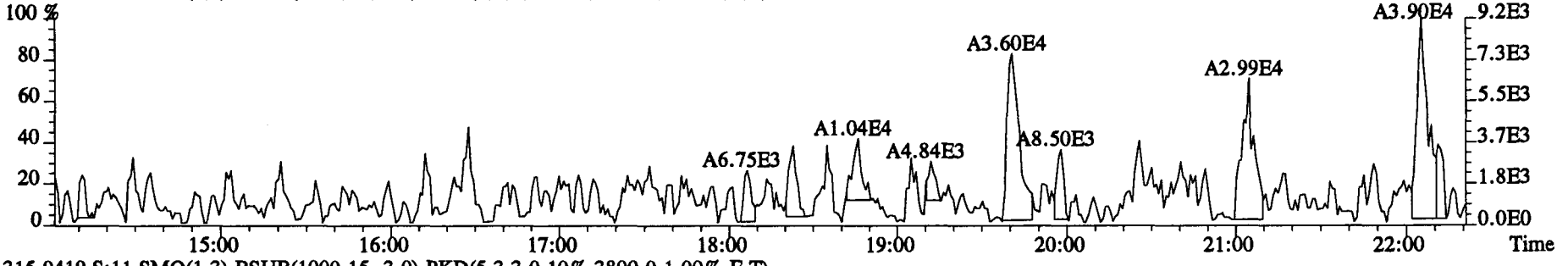
Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	34:48	1.22	n	1.61	34900	4.1	y	n
						28565	5.5	y	n
1,2,3,4,6,7,8-HpCDD	2	35:22	0.96	y	1.96	34616	4.9	y	n
						35976	6.3	y	n

File:17FE104D5 #1-578 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN

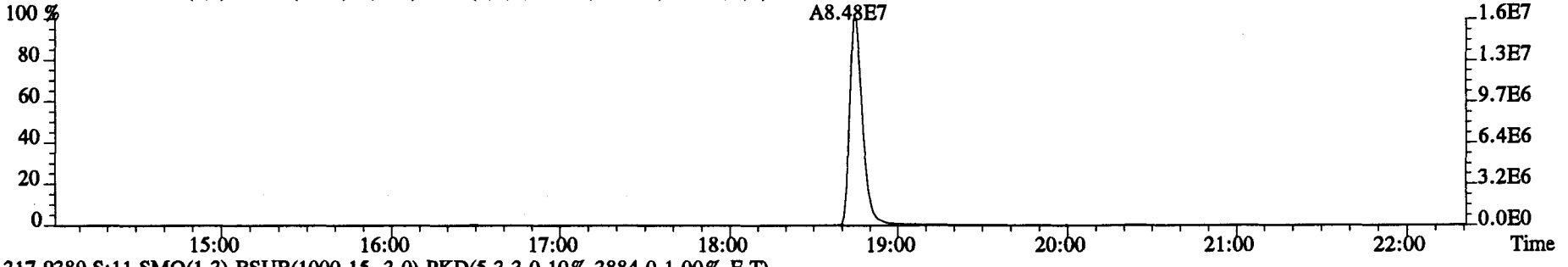
303.9016 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1324.0,1.00%,F,T)



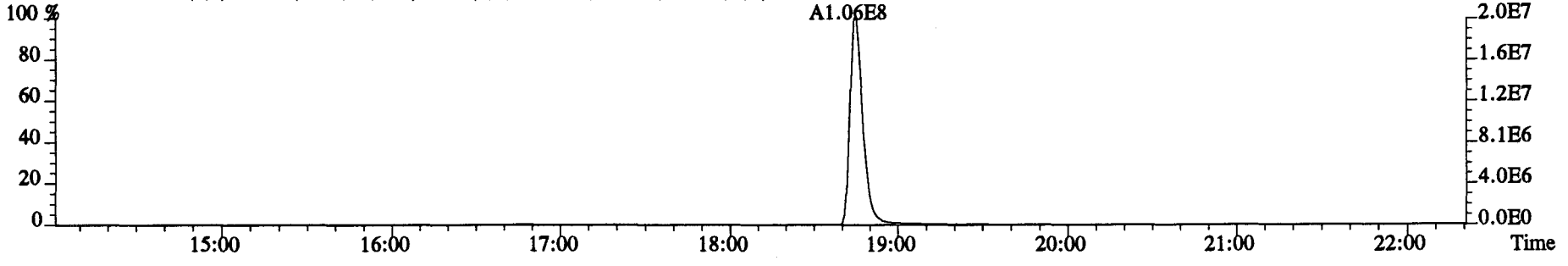
305.8987 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1768.0,1.00%,F,T)



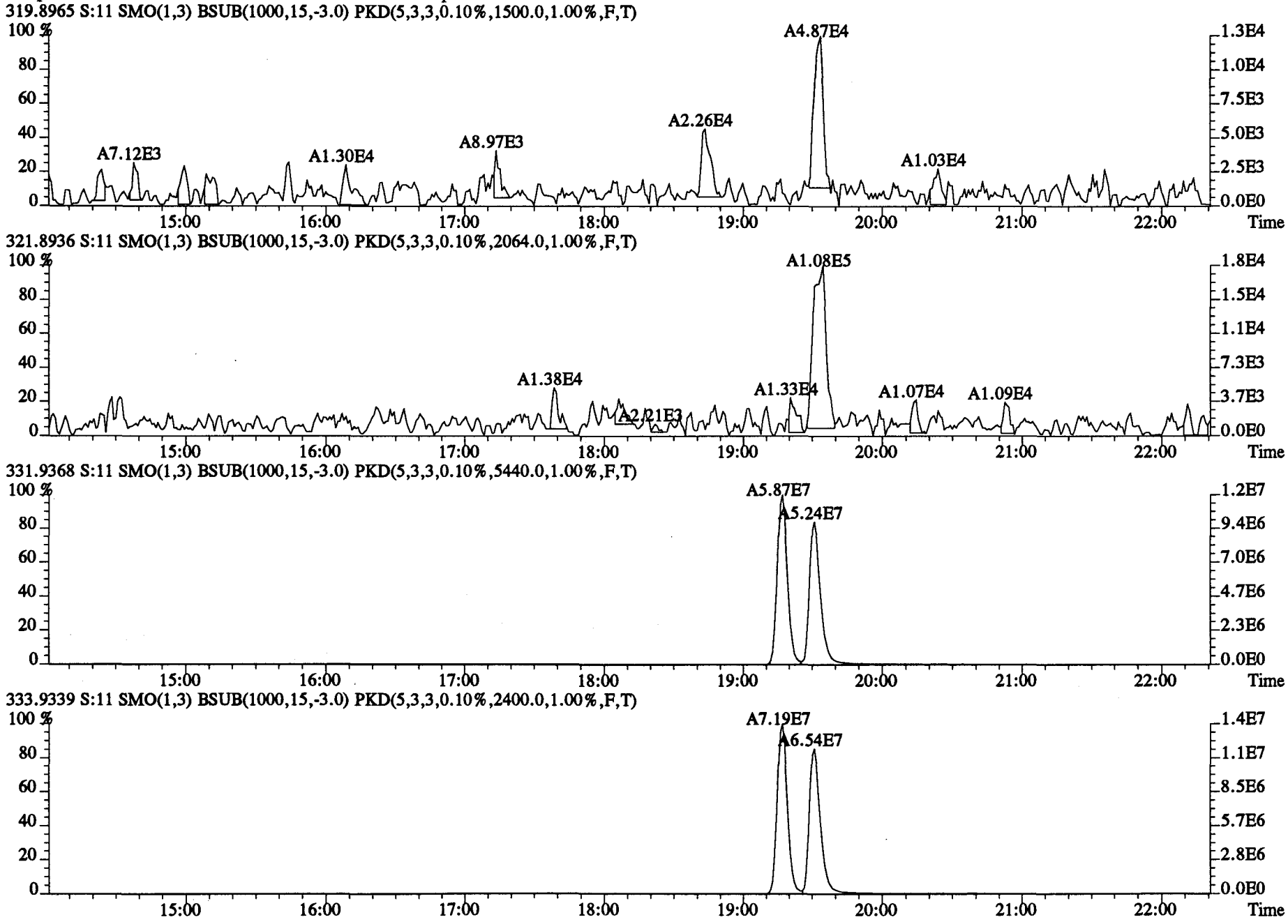
315.9419 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3800.0,1.00%,F,T)



317.9389 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3884.0,1.00%,F,T)

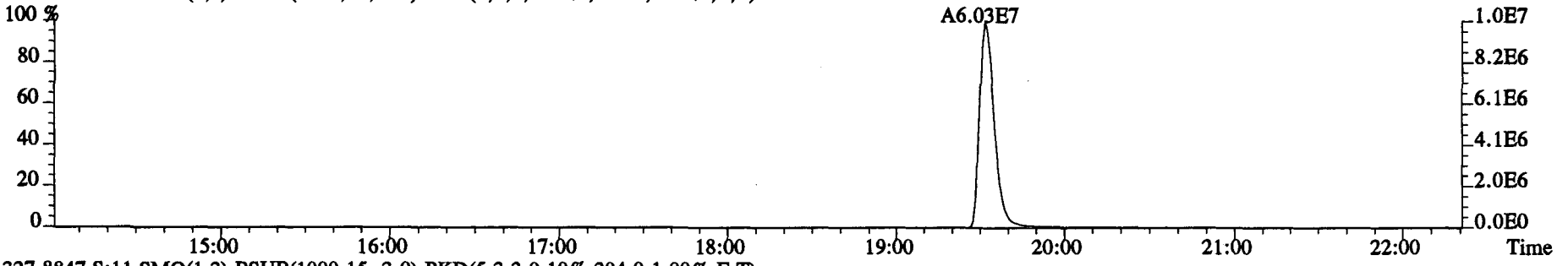


File:17FE104D5 #1-578 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN

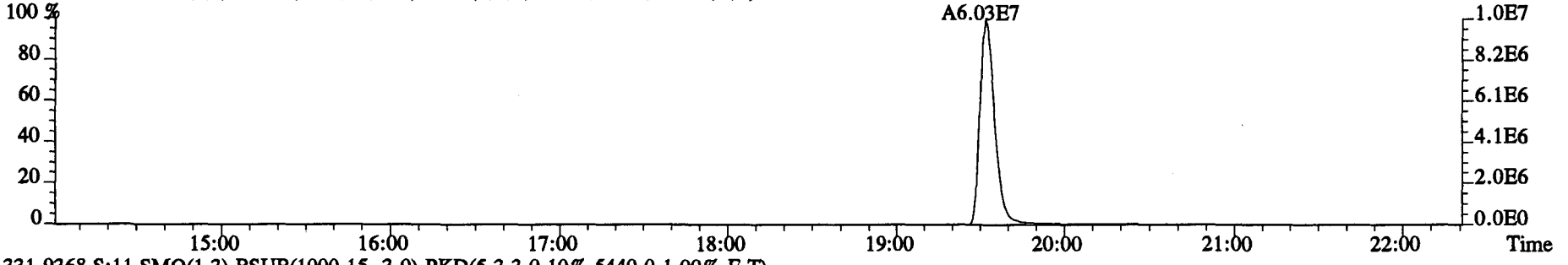


File:17FE104D5 #1-578 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN

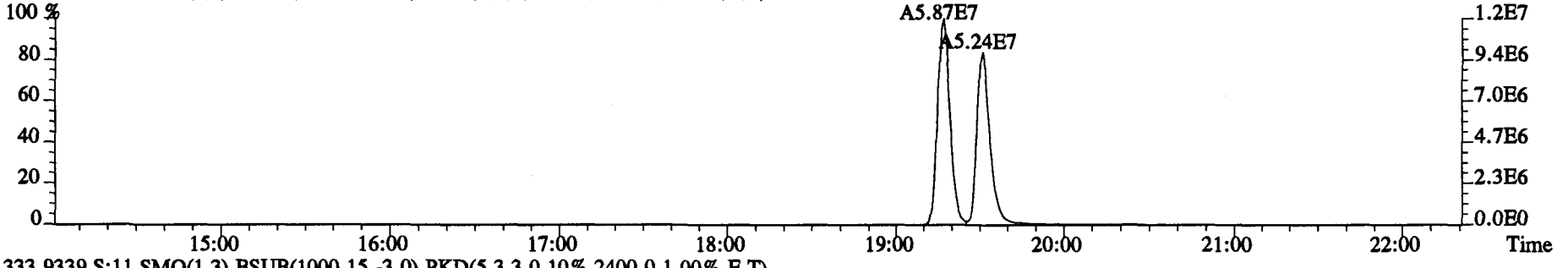
327.8847 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,204.0,1.00%,F,T)



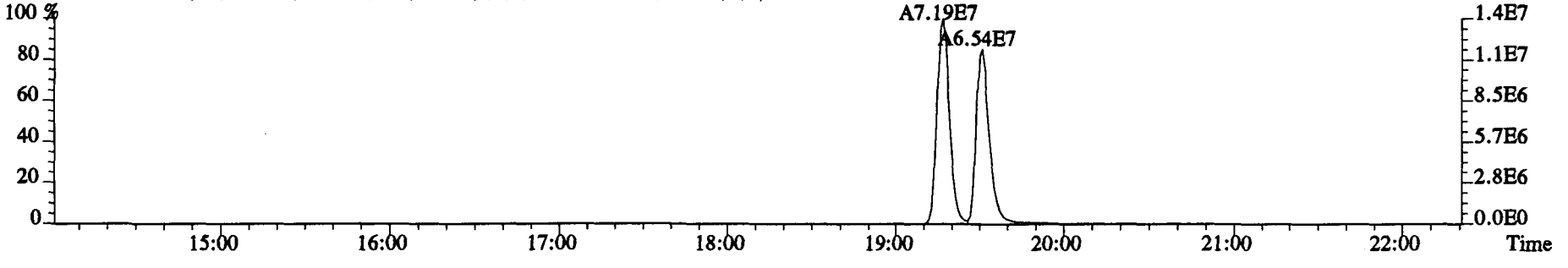
327.8847 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,204.0,1.00%,F,T)



331.9368 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5440.0,1.00%,F,T)

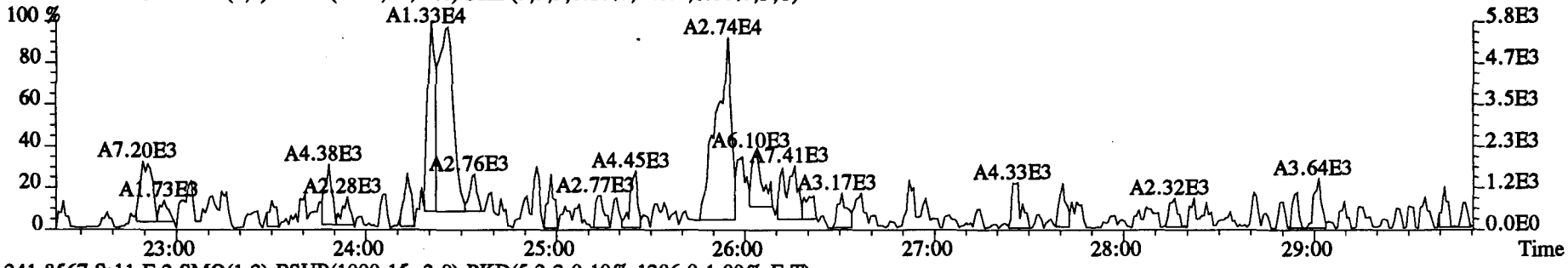


333.9339 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2400.0,1.00%,F,T)

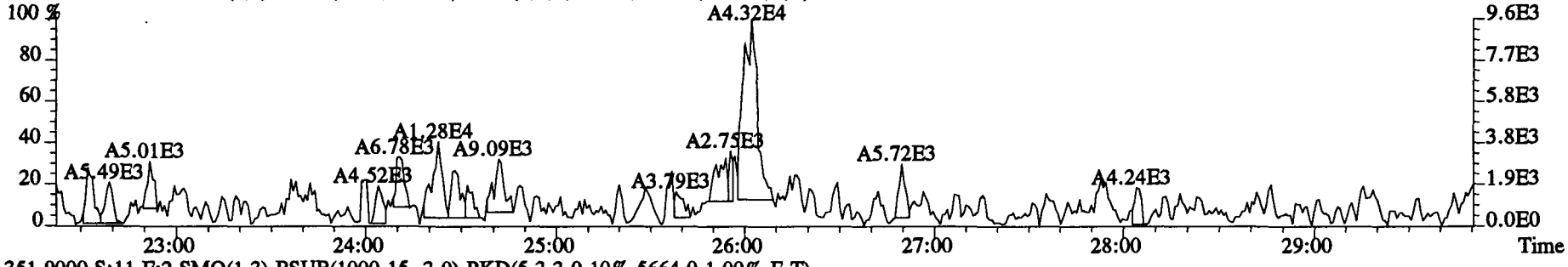


File:17FE104D5 #1-596 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN

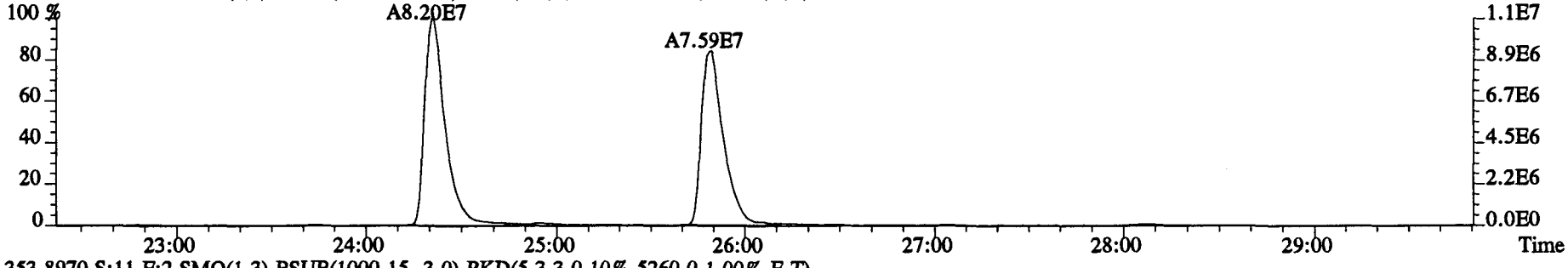
339.8597 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,648.0,1.00%,F,T)



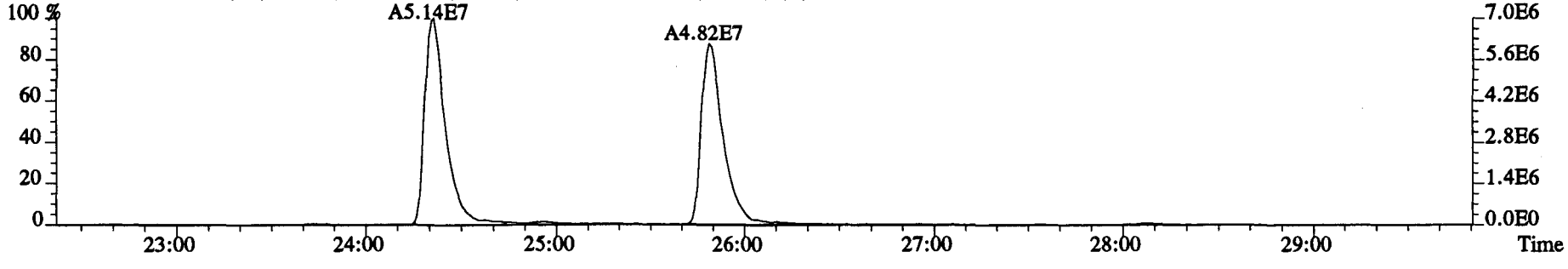
341.8567 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1396.0,1.00%,F,T)



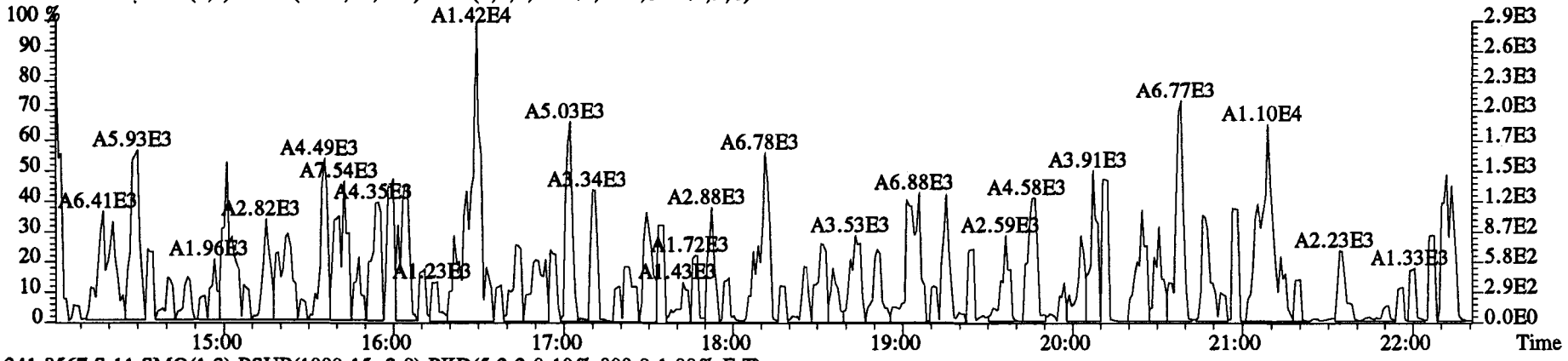
351.9000 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5664.0,1.00%,F,T)



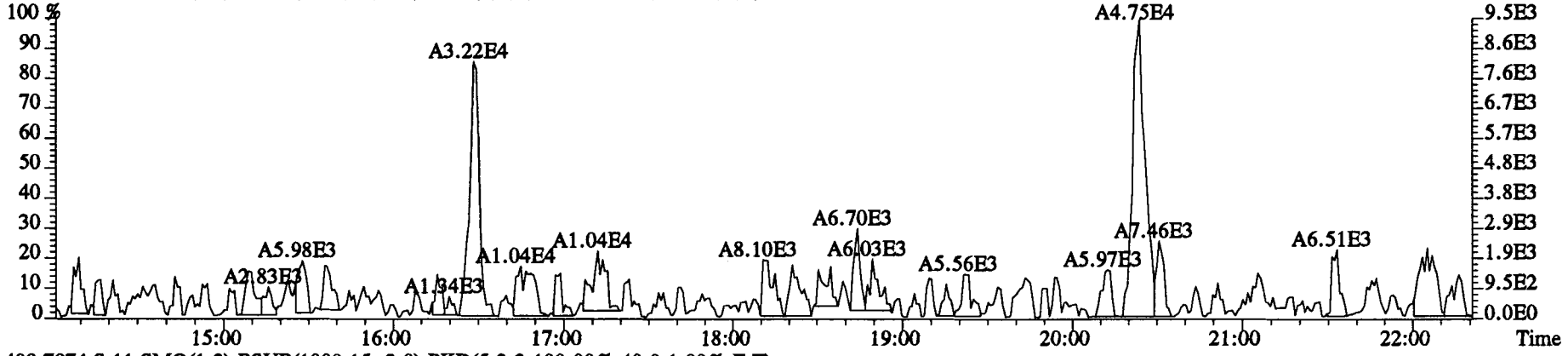
353.8970 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5260.0,1.00%,F,T)



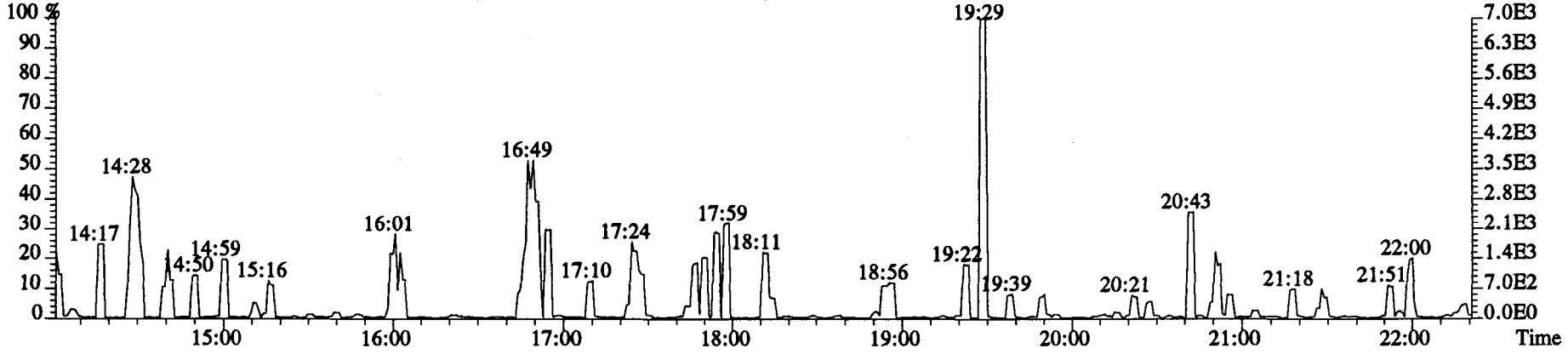
File:17FE104D5 #1-578 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN
339.8597 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,40.0,1.00%,F,T)



341.8567 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,800.0,1.00%,F,T)

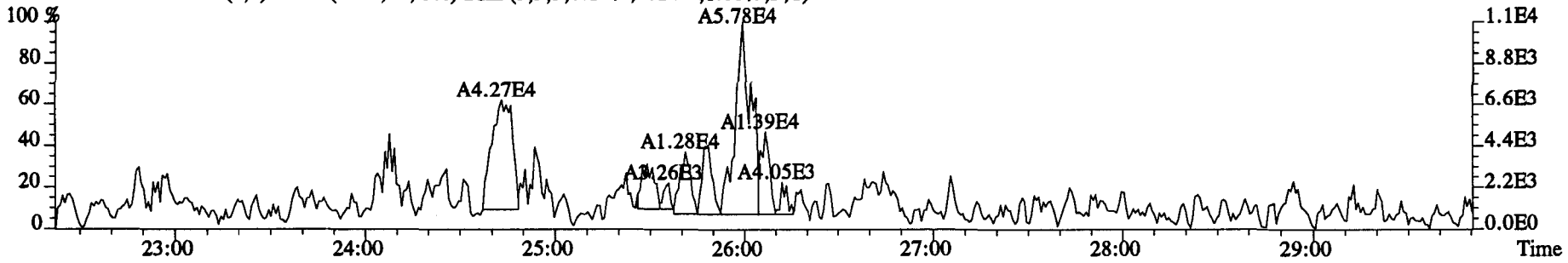


409.7974 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,40.0,1.00%,F,T)

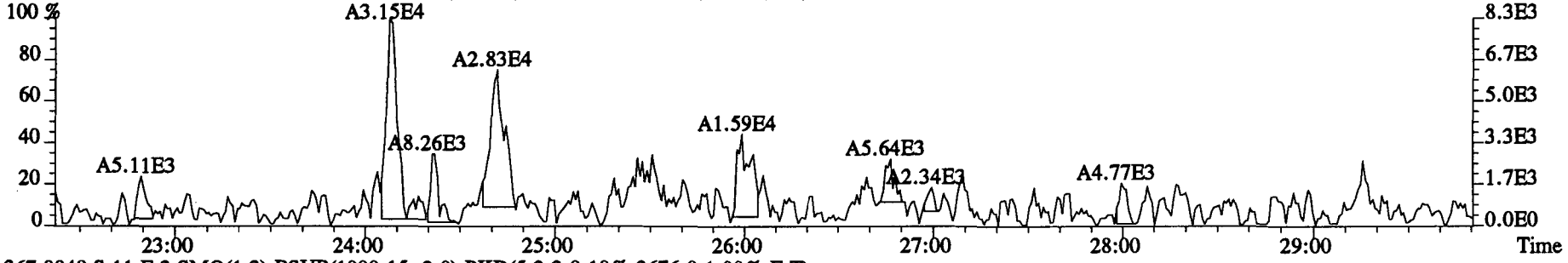


File:17FE104D5 #1-596 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN

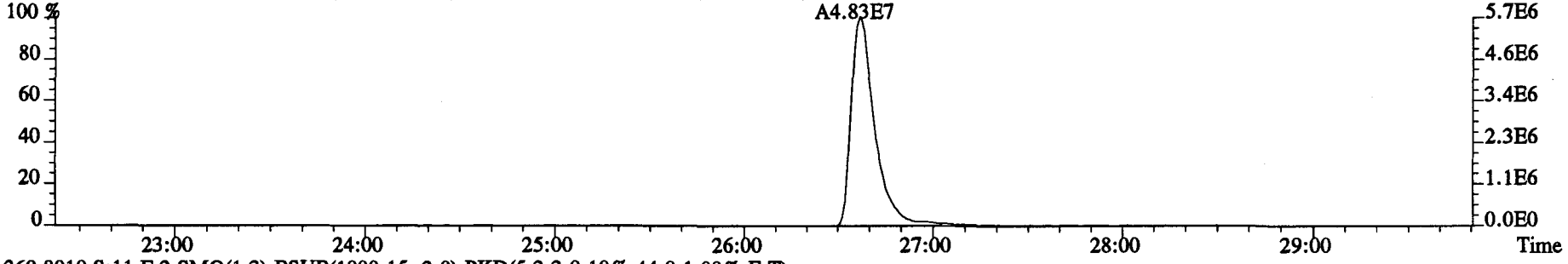
355.8546 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1824.0,1.00%,F,T)



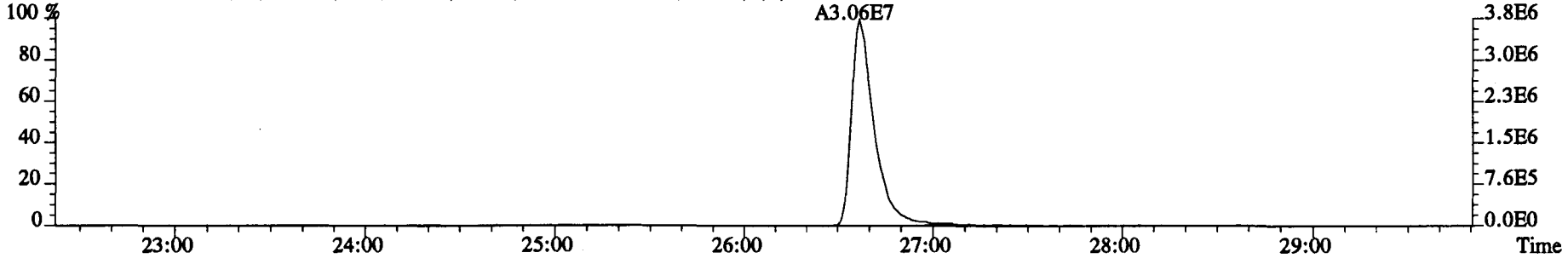
357.8516 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1224.0,1.00%,F,T)



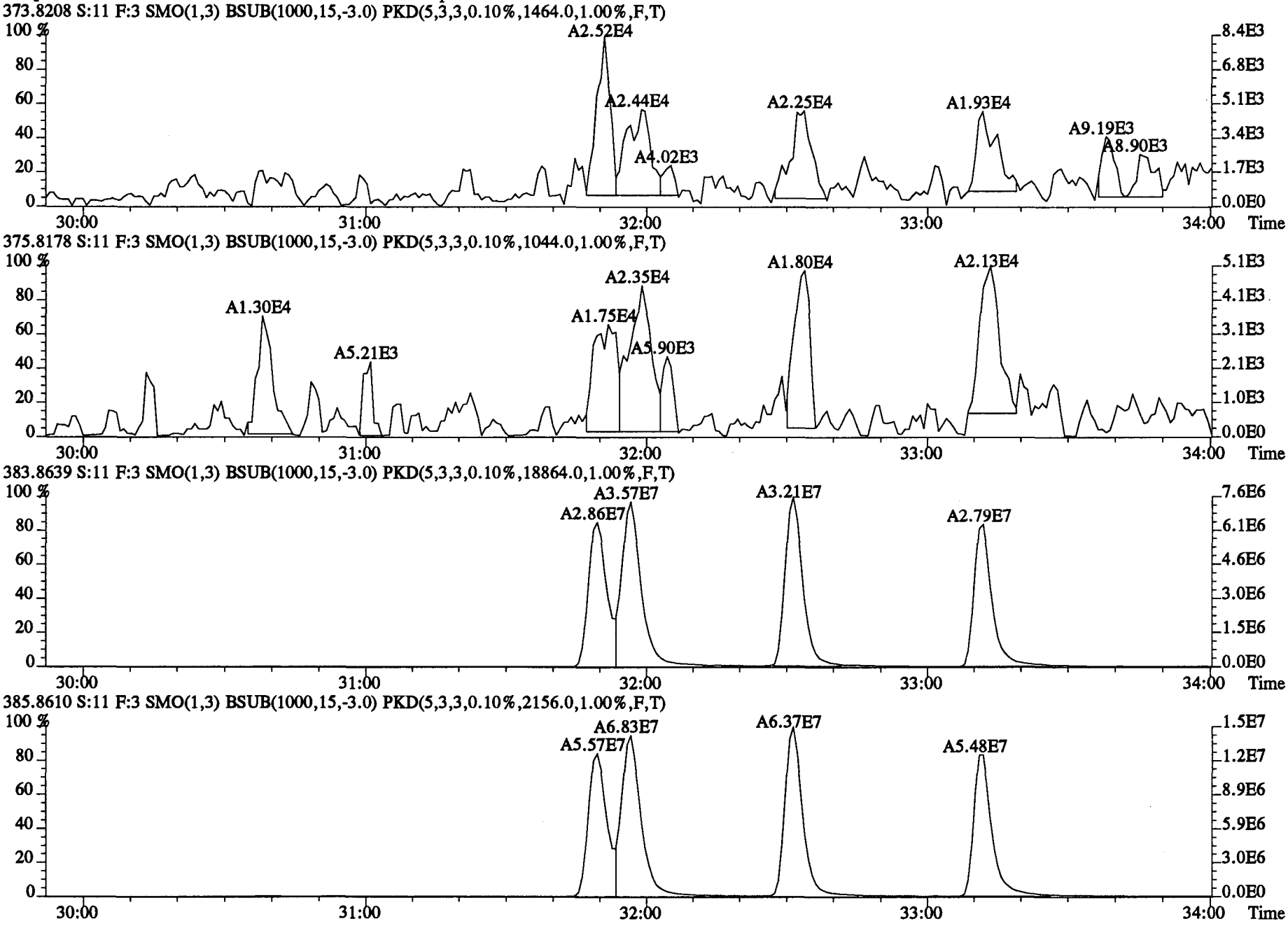
367.8949 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2676.0,1.00%,F,T)



369.8919 S:11 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44.0,1.00%,F,T)

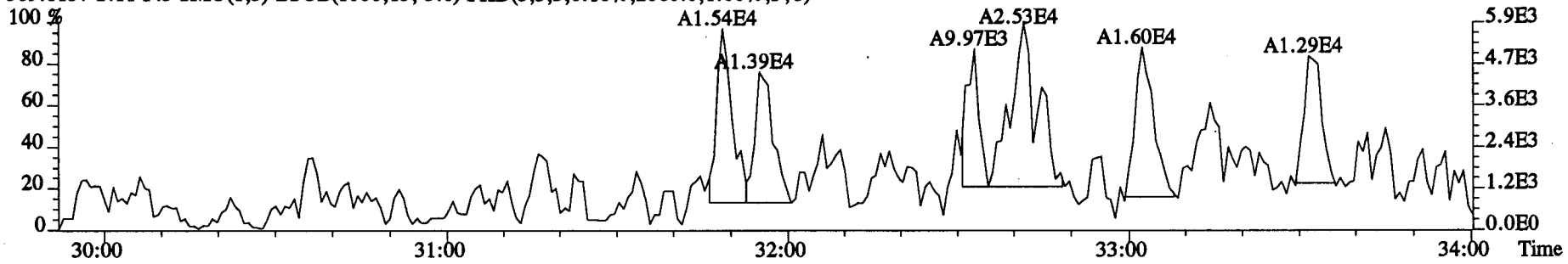


File:17FE104D5 #1-314 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN

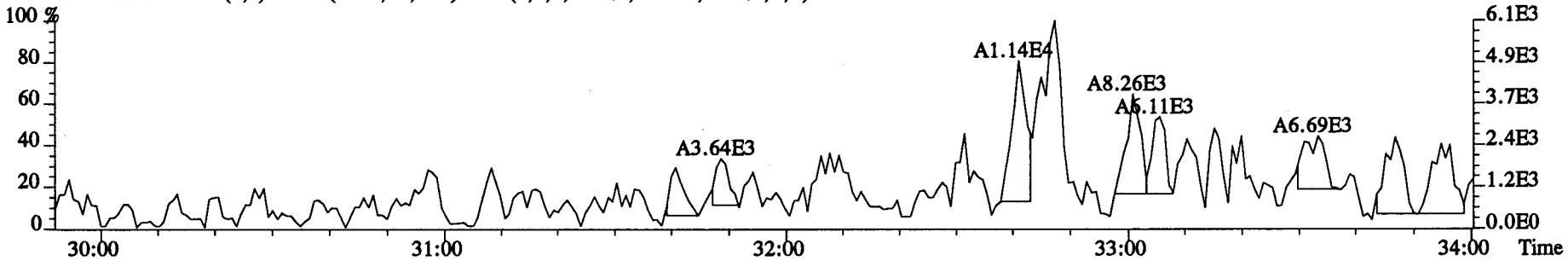


File:17FE104D5 #1-314 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN

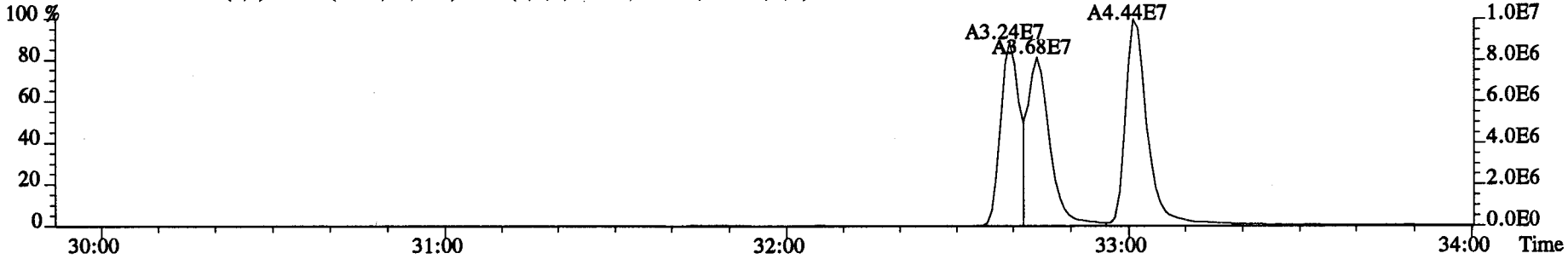
389.8157 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2060.0,1.00%,F,T)



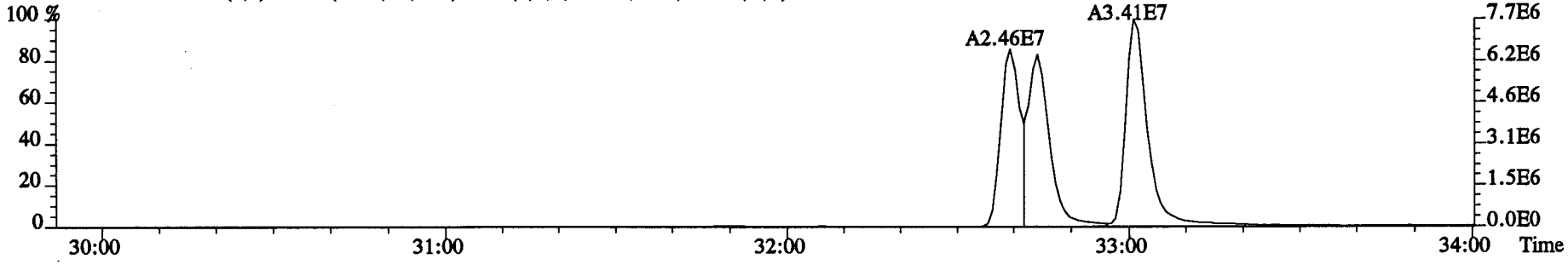
391.8127 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1380.0,1.00%,F,T)



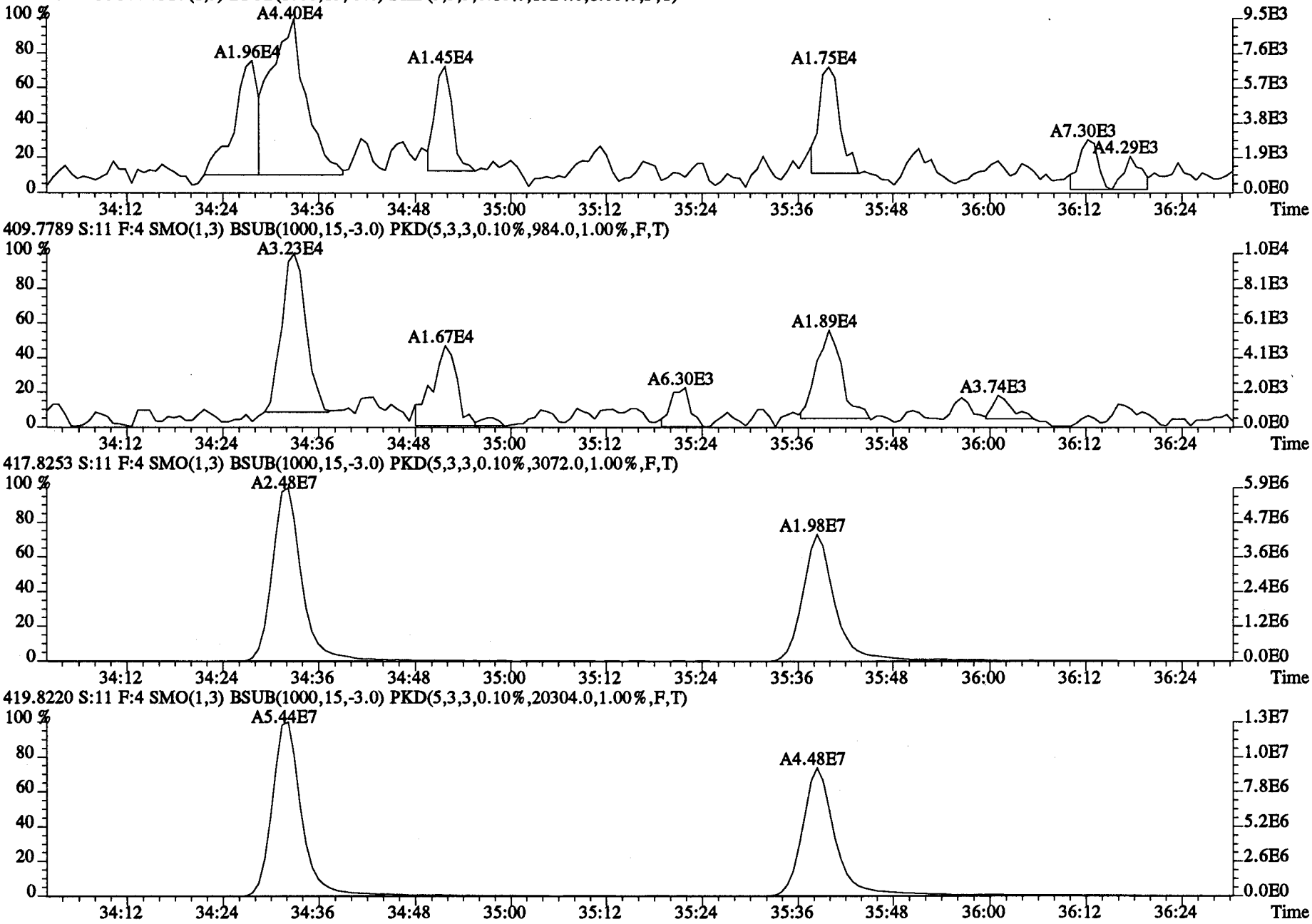
401.8559 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2144.0,1.00%,F,T)



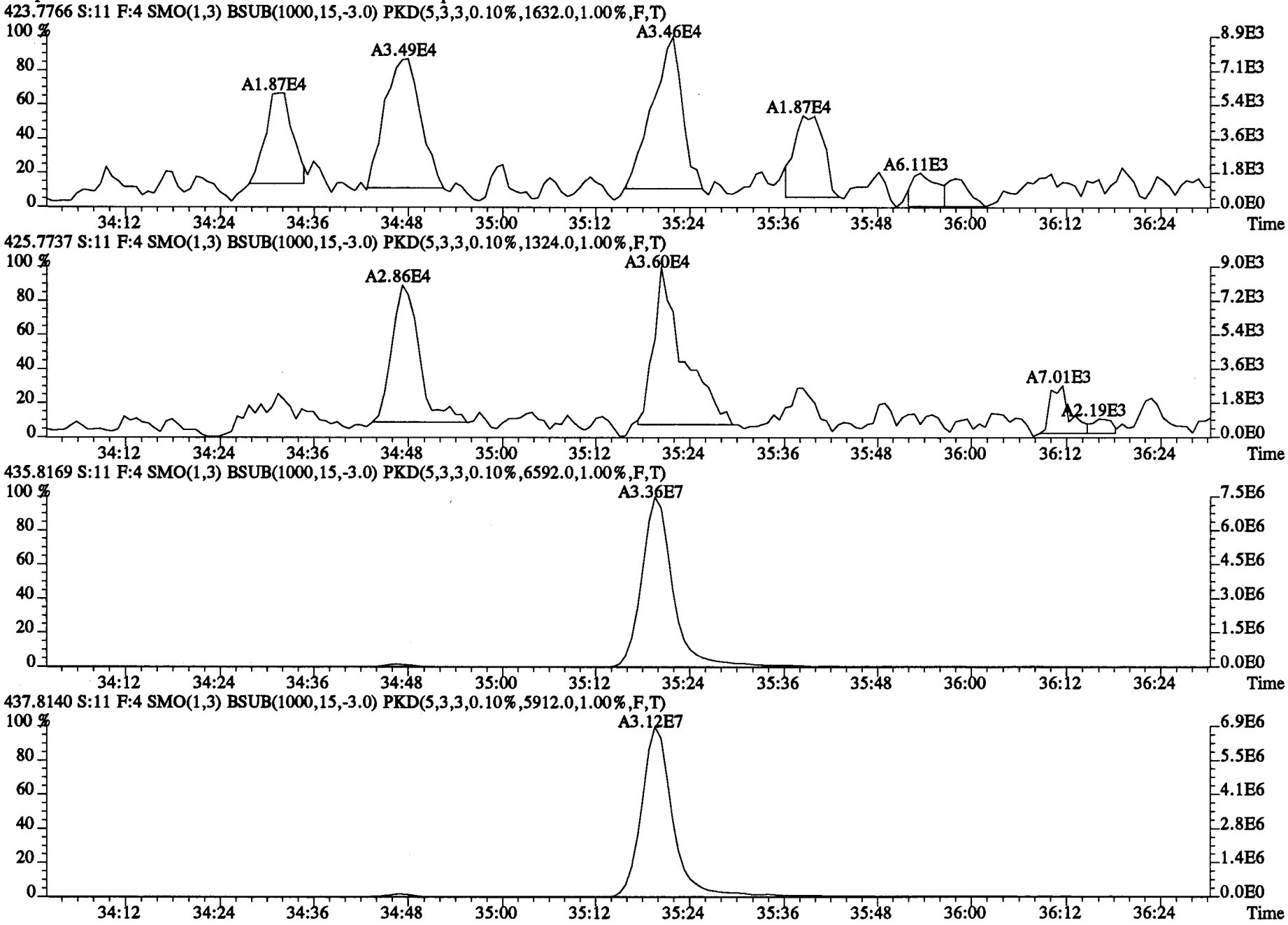
403.8529 S:11 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,36.0,1.00%,F,T)



File:17FE104D5 #1-198 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN

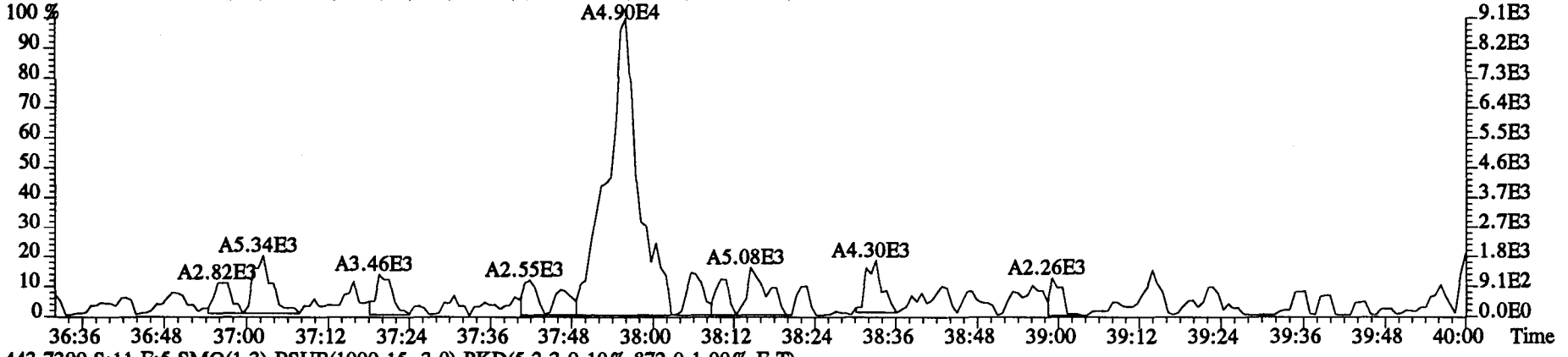


File:17FE104D5 #1-198 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN

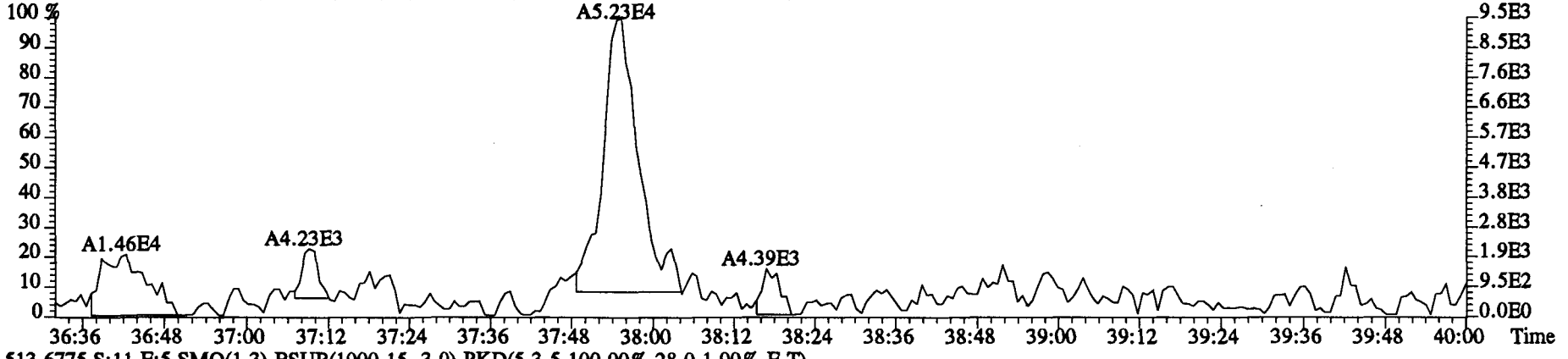


File:17FE104D5 #1-281 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN

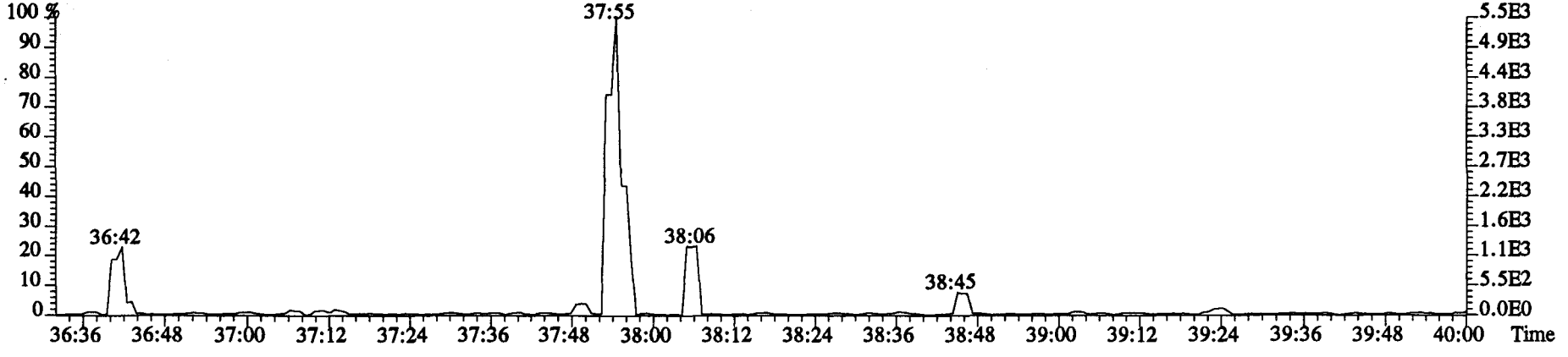
441.7428 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,596.0,1.00%,F,T)



443.7399 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,872.0,1.00%,F,T)

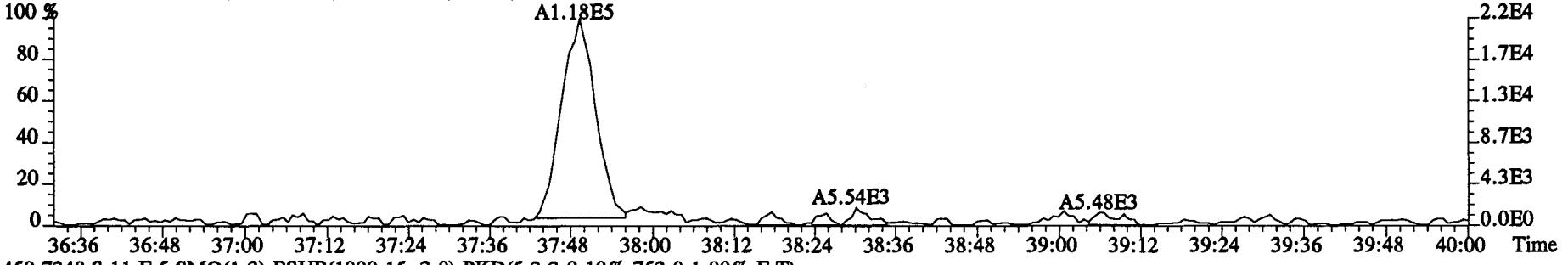


513.6775 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,28.0,1.00%,F,T)

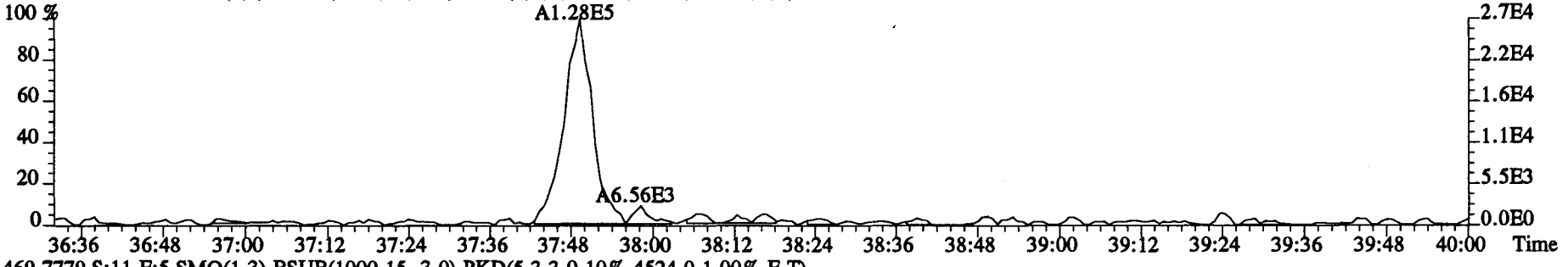


File:17FE104D5 #1-281 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN

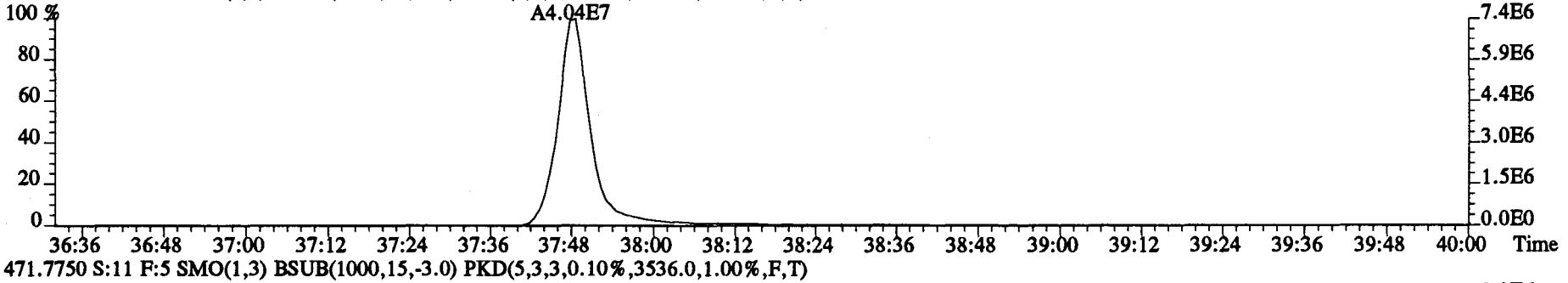
457.7377 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,728.0,1.00%,F,T)



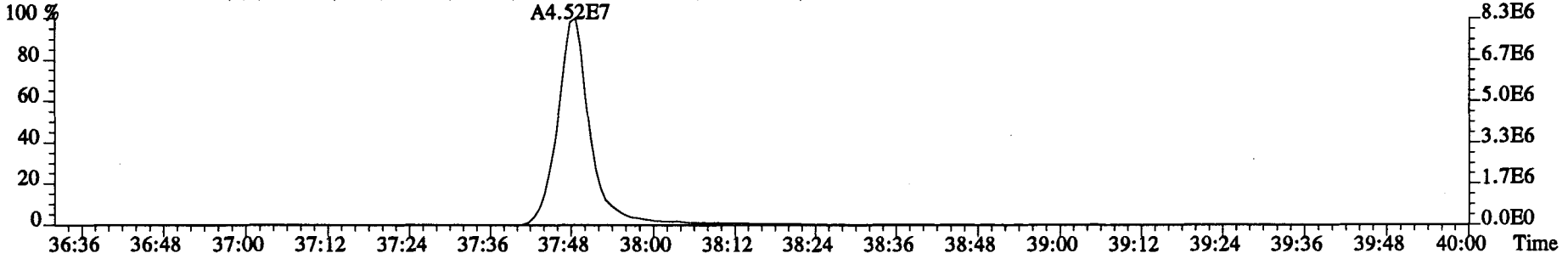
459.7348 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,752.0,1.00%,F,T)



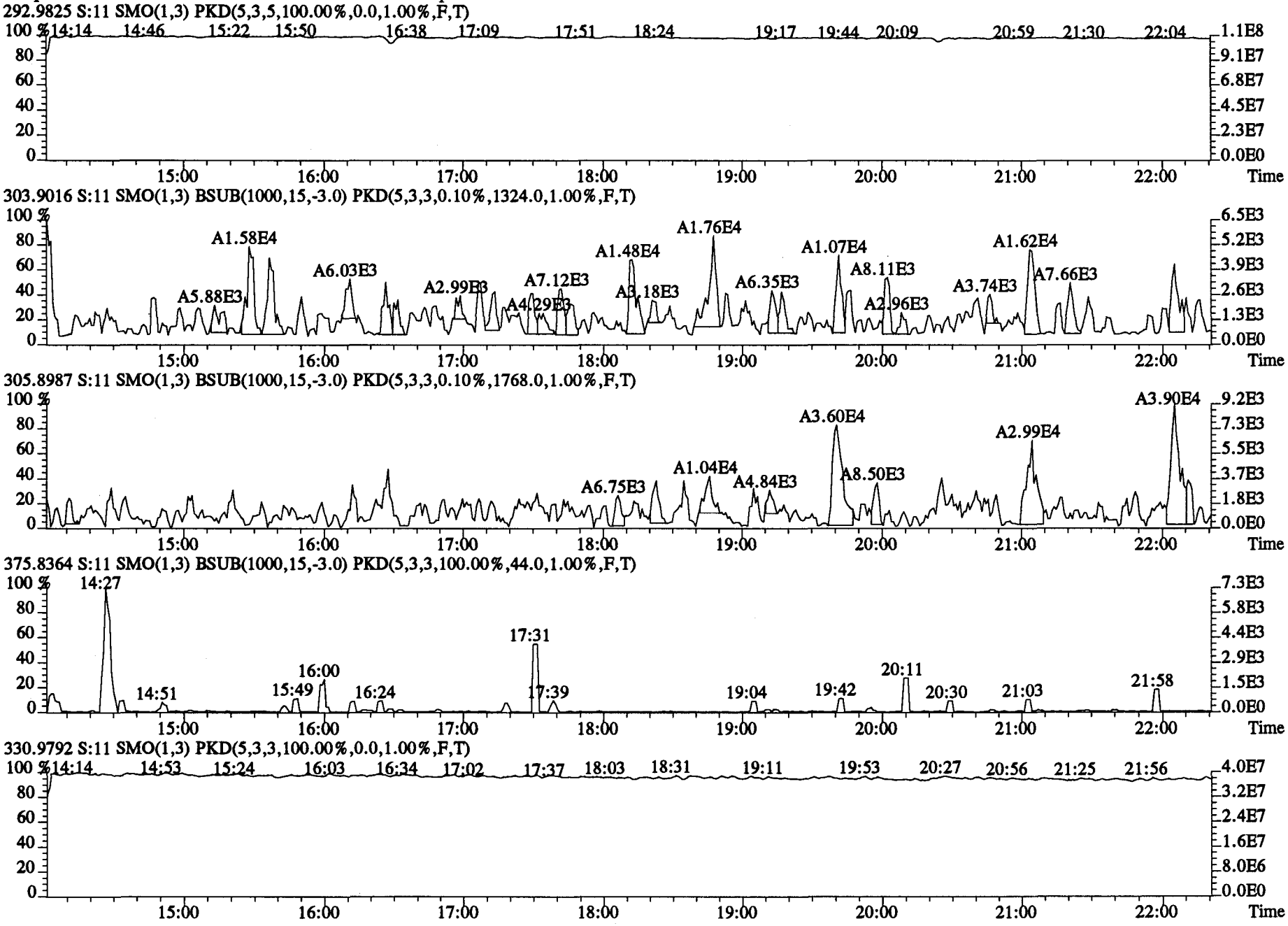
469.7779 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4524.0,1.00%,F,T)



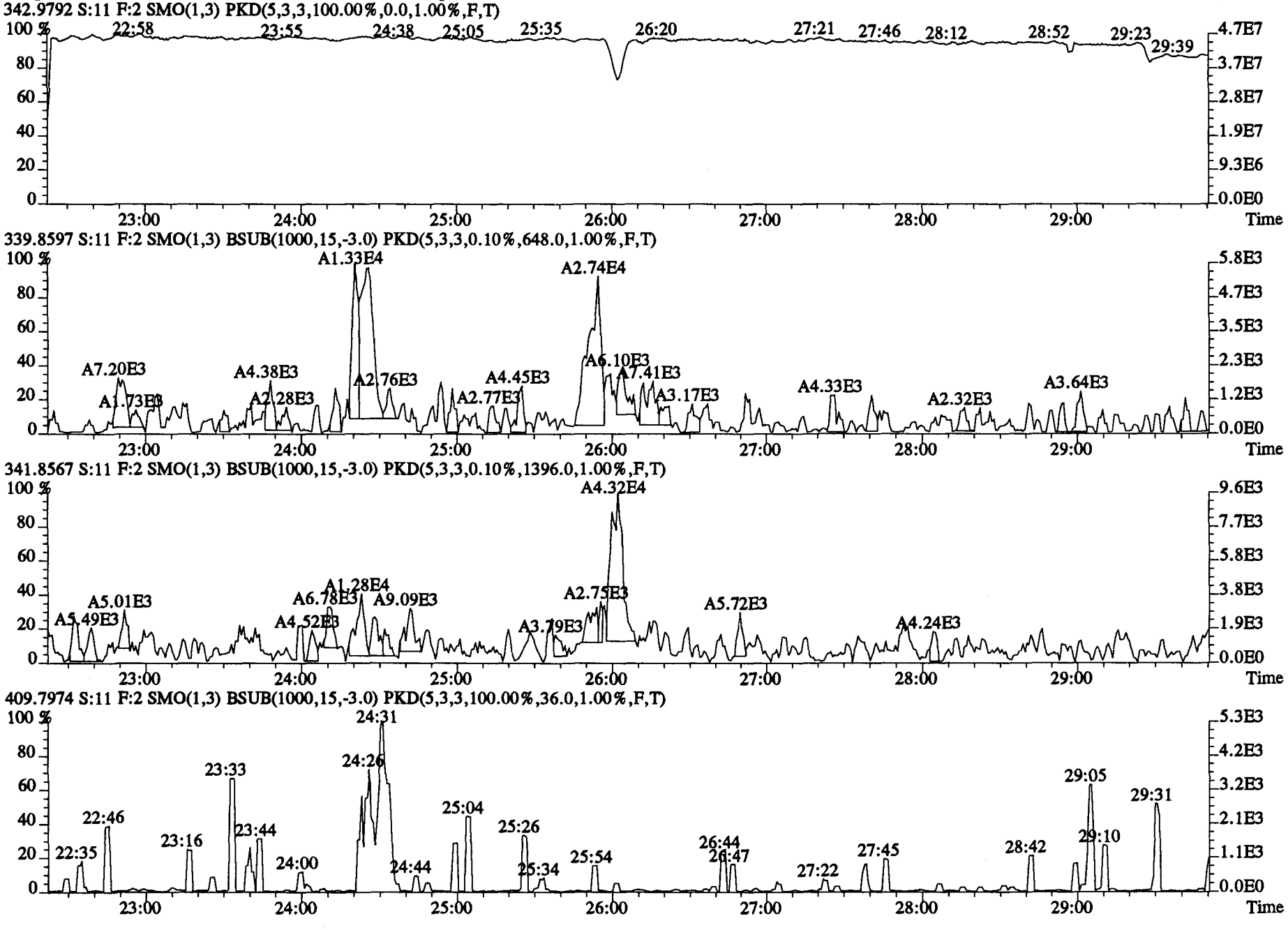
471.7750 S:11 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3536.0,1.00%,F,T)



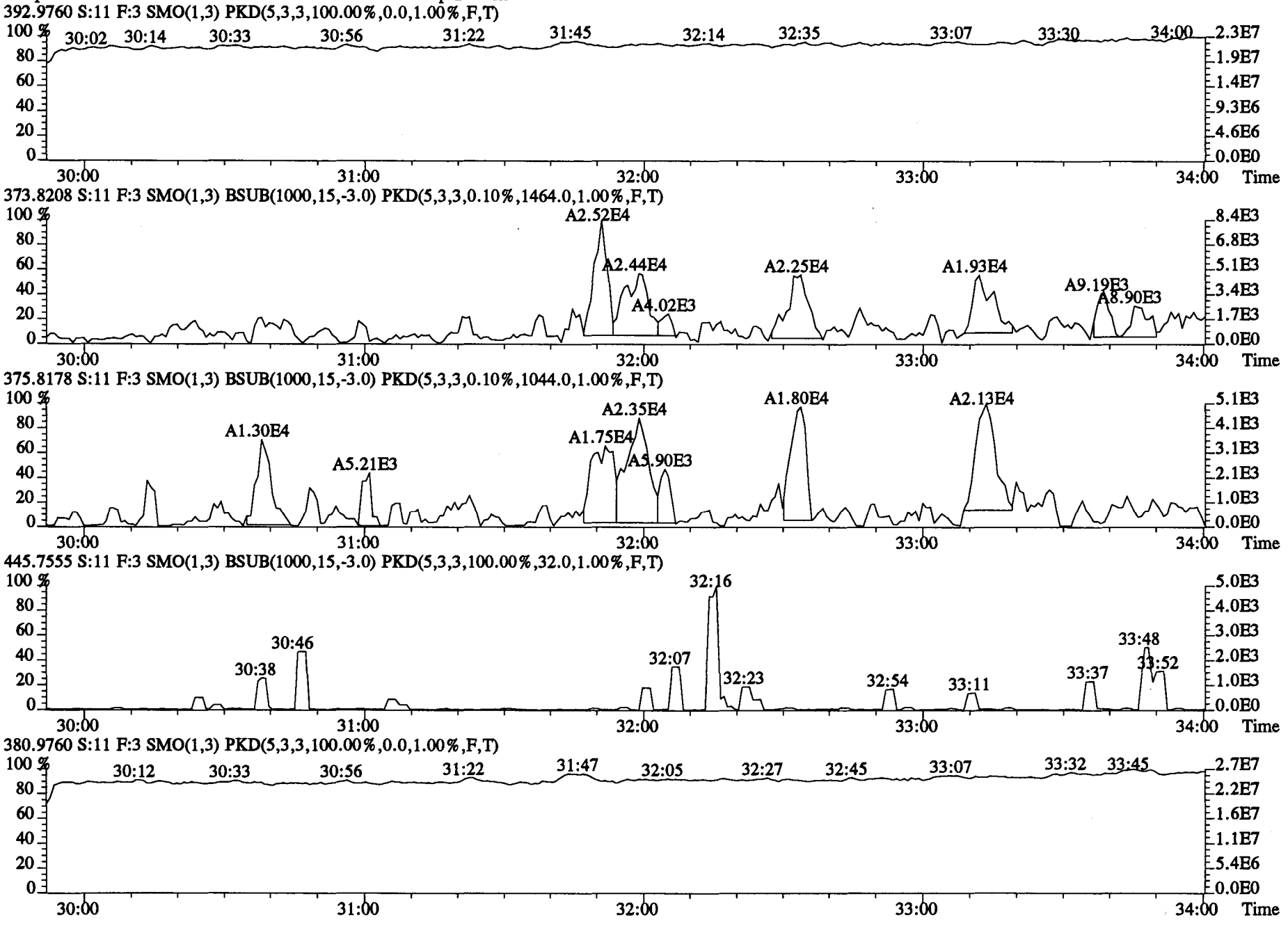
File:17FE104D5 #1-578 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN



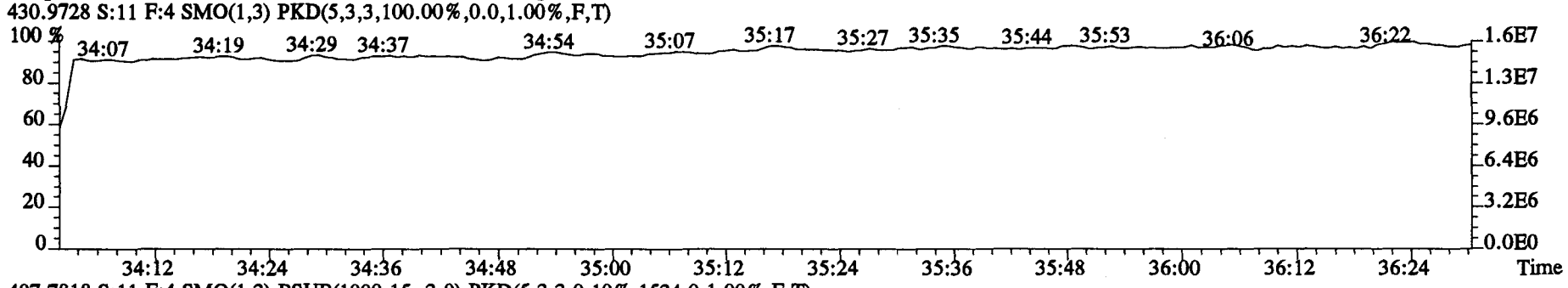
File:17FE104D5 #1-596 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN

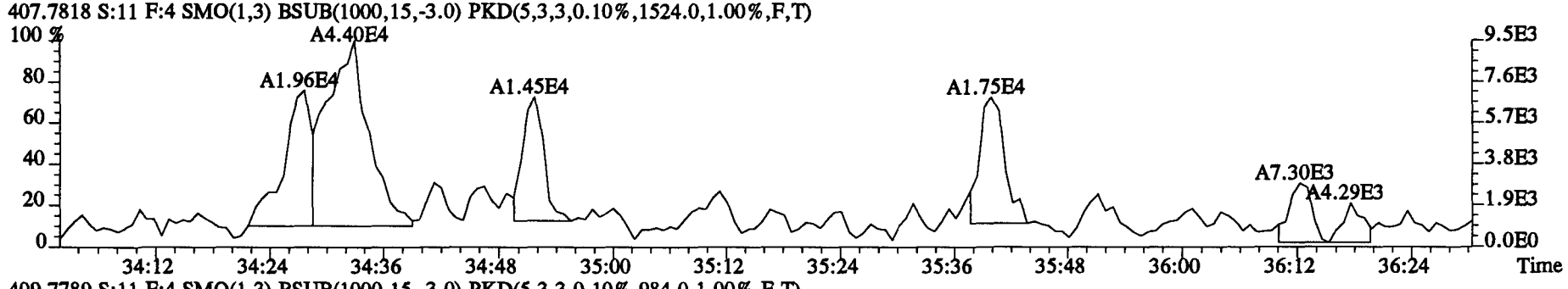


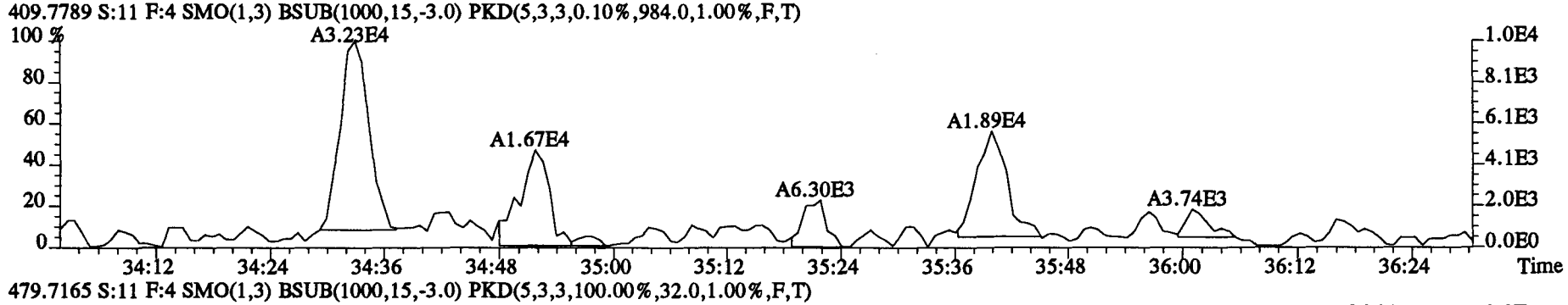
File:17FE104D5 #1-314 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN

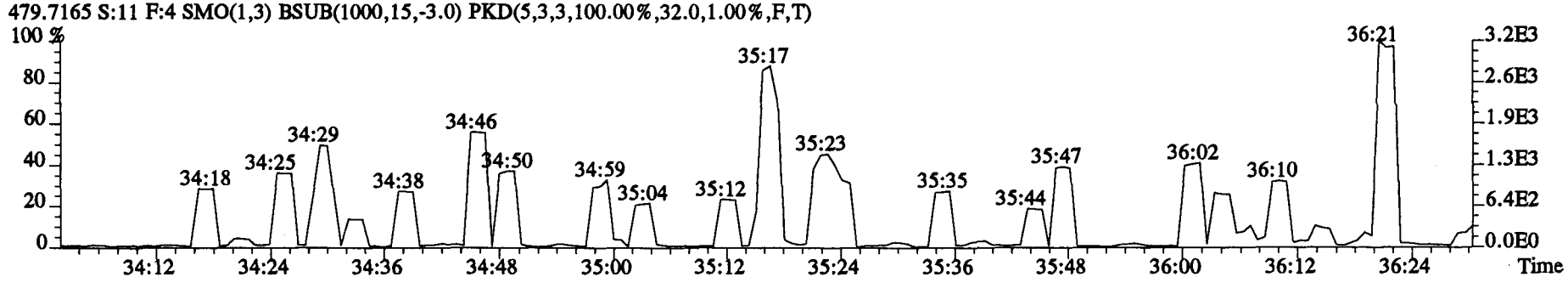


File:17FE104D5 #1-198 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN

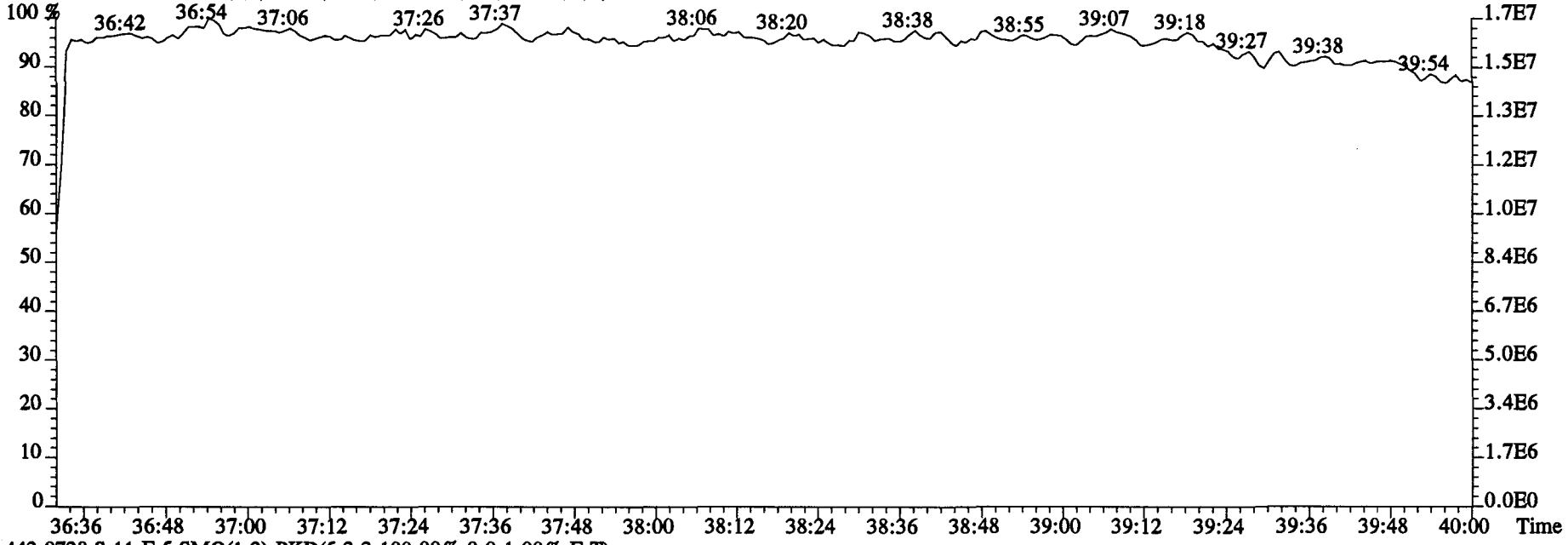




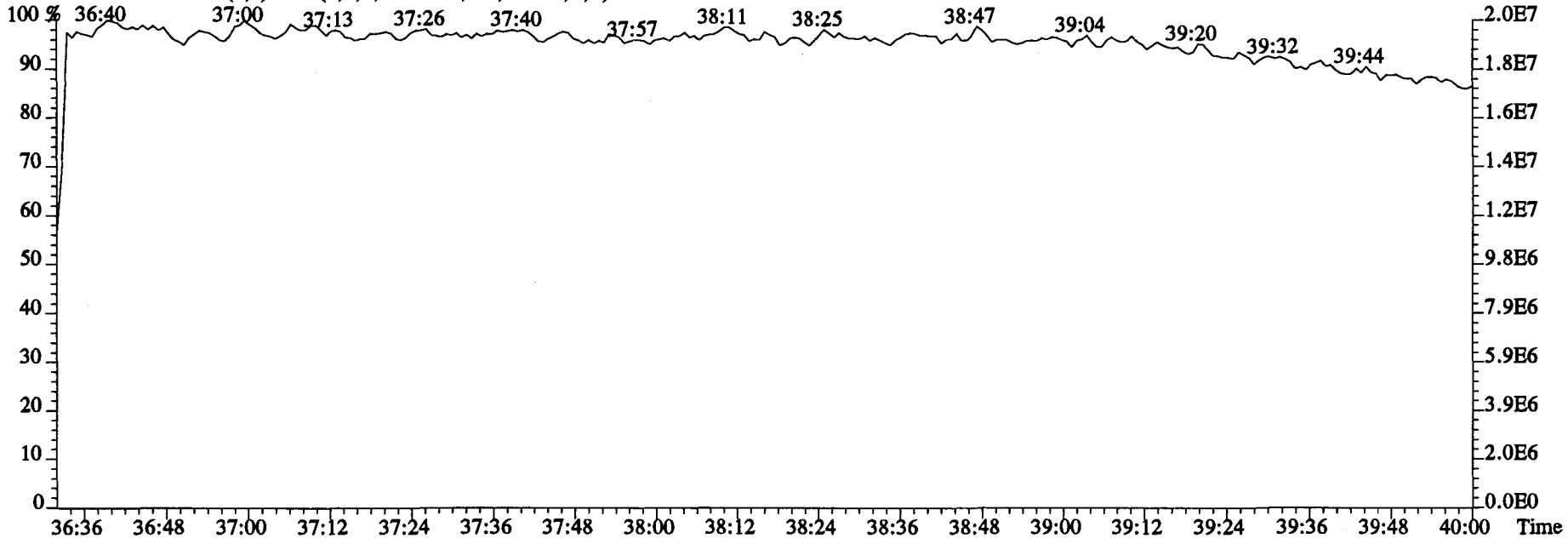




File:17FE104D5 #1-281 Acq:17-FEB-2010 16:54:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#11 Text:LT769-1-AA :G0B040517-10 Exp:DIOXIN
454.9728 S:11 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:11 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: LT77C-1-AA Sample text: LT77C-1-AA :G0B040517-12
Run #16 Filename: 17FE104D5 S: 12 I: 1 Results: 17fe104d58290
Acquired: 17-FEB-10 17:38:10 Processed: 17-FEB-10 19:35:04
Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.03 L

RA 2/23/10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	133535000	0.82	y	19:17	-	78.25	-	-	n
13C-2,3,7,8-TCDF	179903500	0.80	y	18:45	1.57	1673.56	1.00	85.8	n
2,3,7,8-TCDF	*	*	n	NotFnd	1.05	*	0.40	-	n
Total TCDF	145959	0.68	y	15:12	1.05	~~1.50~~ 1.85	0.40	-	n
13C-2,3,7,8-TCDD	109375600	0.81	y	19:31	1.00	1596.49	1.51	81.8	n
2,3,7,8-TCDD	*	*	n	NotFnd	1.05	*	0.87	-	n
Total TCDD	34274	0.78	y	18:45	1.05	~~0.58~~	0.87	-	n
37Cl-2,3,7,8-TCDD	119056400	1.00	y	19:33	2.42	720.00	0.26	92.3	n
13C-1,2,3,7,8-PeCDF	121847300	1.62	y	24:21	1.34	1331.74	2.04	68.3	n
1,2,3,7,8-PeCDF	12649	0.65	n	24:22	1.07	~~0.19~~	0.59	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	1.04	*	0.61	-	n
Total F2 PeCDF	39842	0.37	n	22:55	1.05	~~0.60~~	~~0.69~~ 0.61	-	n
Total F1 PeCDF	116763	0.14	n	14:33	1.05	~~1.78~~	~~0.29~~	-	n
13C-1,2,3,7,8-PeCDD	71587200	1.60	y	26:38	0.81	1287.86	0.37	66.0	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	1.04	*	1.88	-	n
Total PeCDD	195622	1.41	y	24:07	1.04	~~5.14~~	1.88	-	n
13C-1,2,3,7,8,9-HxCDD	85772700	1.27	y	33:02	-	51.29	-	-	n
13C-1,2,3,4,7,8-HxCDF	82490300	0.51	y	31:49	1.01	1849.25	0.59	94.8	n
1,2,3,4,7,8-HxCDF	24799	0.87	n	31:50	1.24	~~0.47~~	0.53	-	n
1,2,3,6,7,8-HxCDF	23626	1.79	n	32:01	1.49	~~0.37~~	0.44	-	n
2,3,4,6,7,8-HxCDF	28826	1.26	y	32:34	1.34	0.51 J	0.49	-	n
1,2,3,7,8,9-HxCDF	15059	0.89	n	33:12	1.22	~~0.29~~	0.54	-	n
Total HxCDF	92311	0.87	n	31:50	1.32	~~1.65~~ 0.51	0.50	-	n
13C-1,2,3,6,7,8-HxCDD	70328100	1.28	y	32:45	0.88	1809.74	1.43	92.8	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	0.90	*	1.73	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.19	*	1.31	-	n
1,2,3,7,8,9-HxCDD	*	*	n	NotFnd	1.16	*	1.34	-	n
Total HxCDD	*	*	n	NotFnd	1.08	*	~~1.44~~ 1.73	-	n
13C-1,2,3,4,6,7,8-HpCDF	75442300	0.45	y	34:32	0.94	1816.15	5.37	93.1	n
1,2,3,4,6,7,8-HpCDF	30102	1.31	n	34:33	1.30	~~0.60~~	0.71	-	n
1,2,3,4,7,8,9-HpCDF	20386	0.61	n	35:40	1.10	0.48	0.84	-	n
Total HpCDF	50488	1.31	n	34:33	1.20	~~1.08~~	~~0.77~~ 0.84	-	n
13C-1,2,3,4,6,7,8-HpCDD	61310900	1.07	y	35:20	0.79	1758.65	3.42	90.1	n
1,2,3,4,6,7,8-HpCDD	24057	0.39	n	35:22	1.06	~~0.72~~	1.06	-	n
Total HpCDD	106452	0.93	y	34:18	1.06	~~3.21~~ 1.37	1.06	-	n
13C-OCDD	76954100	0.91	y	37:49	0.58	3007.68	3.48	77.1	n

OCDF	41902	0.96	y	37:57	1.56	1.36 J	0.62	-	n
OCDD	113601	1.07	n	37:49	1.19	4.83 JQ	0.66	-	n

Run text: LT77C-1-AA Sample text: LT77C-1-AA :G0B040517-12
Run #16 Filename: 17FE104D5 S: 12 I: 1 Results: 17FE104D58290
Acquired: 17-FEB-10 17:38:10 Processed: 17-FEB-10 19:35:04
Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.022000L
10252

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	133535000	0.82	y	19:17	-	78.49	-	-	n
13C-2,3,7,8-TCDF	179903500	0.80	y	18:45	1.57	1678.80	1.00	85.8	n
2,3,7,8-TCDF	*	*	n	NotFnd	1.05	*	0.40	-	n
Total TCDF	145959	0.68	y	15:12	1.05	1.51	0.40	-	n
13C-2,3,7,8-TCDD	109375600	0.81	y	19:31	1.00	1601.49	1.51	81.8	n
2,3,7,8-TCDD	*	*	n	NotFnd	1.05	*	0.87	-	n
Total TCDD	34274	0.78	y	18:45	1.05	0.58	0.87	-	n
37Cl-2,3,7,8-TCDD	119056400	1.00	y	19:33	2.42	722.25	0.26	92.3	n
13C-1,2,3,7,8-PeCDF	121847300	1.62	y	24:21	1.34	1335.91	2.05	68.3	n
1,2,3,7,8-PeCDF	12649	0.65	n	24:22	1.07	0.19	0.60	-	n
2,3,4,7,8-PeCDF	*	*	n	NotFnd	1.04	*	0.61	-	n
Total F2 PeCDF	39842	0.37	n	22:55	1.05	0.60	0.60	-	n
Total F1 PeCDF	116763	0.14	n	14:33	1.05	1.78	0.29	-	n
13C-1,2,3,7,8-PeCDD	71587200	1.60	y	26:38	0.81	1291.90	0.37	66.0	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	1.04	*	1.89	-	n
Total PeCDD	195622	1.41	y	24:07	1.04	5.15	1.89	-	n
13C-1,2,3,7,8,9-HxCDD	85772700	1.27	y	33:02	-	51.45	-	-	n
13C-1,2,3,4,7,8-HxCDF	82490300	0.51	y	31:49	1.01	1855.04	0.59	94.8	n
1,2,3,4,7,8-HxCDF	24799	0.87	n	31:50	1.24	0.47	0.53	-	n
1,2,3,6,7,8-HxCDF	23626	1.79	n	32:01	1.49	0.38	0.44	-	n
2,3,4,6,7,8-HxCDF	28826	1.26	y	32:34	1.34	0.51	0.49	-	n
1,2,3,7,8,9-HxCDF	15059	0.89	n	33:12	1.22	0.29	0.54	-	n
Total HxCDF	92311	0.87	n	31:50	1.32	1.65	0.50	-	n
13C-1,2,3,6,7,8-HxCDD	70328100	1.28	y	32:45	0.88	1815.40	1.44	92.8	n
1,2,3,4,7,8-HxCDD	*	*	n	NotFnd	0.90	*	1.73	-	n
1,2,3,6,7,8-HxCDD	*	*	n	NotFnd	1.19	*	1.31	-	n
1,2,3,7,8,9-HxCDD	*	*	n	NotFnd	1.16	*	1.35	-	n
Total HxCDD	*	*	n	NotFnd	1.08	*	1.44	-	n
13C-1,2,3,4,6,7,8-HpCDF	75442300	0.45	y	34:32	0.94	1821.83	5.39	93.1	n
1,2,3,4,6,7,8-HpCDF	30102	1.31	n	34:33	1.30	0.60	0.72	-	n
1,2,3,4,7,8,9-HpCDF	20386	0.61	n	35:40	1.10	0.48	0.85	-	n
Total HpCDF	50488	1.31	n	34:33	1.20	1.08	0.78	-	n
13C-1,2,3,4,6,7,8-HpCDD	61310900	1.07	y	35:20	0.79	1764.16	3.43	90.1	n
1,2,3,4,6,7,8-HpCDD	24057	0.39	n	35:22	1.06	0.73	1.06	-	n
Total HpCDD	106452	0.93	y	34:18	1.06	3.22	1.06	-	n
13C-OCDD	76954100	0.91	y	37:49	0.58	3017.09	3.49	77.1	n

OCDF	41902	0.96	y	37:57	1.56	1.37	0.62	-	n
OCDD	113601	1.07	n	37:49	1.19	4.84	0.66	-	n

Run Text: LT77C-1-AA Sample text: LT77C-1-AA :G0B040517-12

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:8
Run: 16 File: 17FE104D5 S:12 Acq:17-FEB-10 17:38:10
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1.54 of which	* named and	1.54	unnamed	
Conc:	1.51 of which	* named and	1.51	unnamed	

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	15:12	0.68	y	0.06	2318	0.8	n	n
						3395	0.7	n	n
	2	18:07	0.19	n	0.09	3806	2.2	n	n
						20090	2.3	n	n
	3	19:42	0.98	n	0.44	23528	8.3	y	n
						24048	2.8	n	n
	4	20:19	1.77	n	0.13	12351	4.1	y	n
						6994	1.2	n	n
	5	21:05	1.67	n	0.41	37013	17.6	y	n
						22214	3.2	y	n
	6	21:15	0.54	n	0.13	5526	3.4	y	n
						10322	1.5	n	n
	7	21:27	1.41	n	0.10	7914	2.9	n	n
						5621	1.2	n	n
	8	22:02	0.29	n	0.15	6343	2.6	n	n
						22110	2.7	n	n

Run Text: LT77C-1-AA Sample text: LT77C-1-AA :G0B040517-12

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:2
Run: 16 File: 17FE104D5 S:12 Acq:17-FEB-10 17:38:10
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	0.59 of which	* named and	0.59	unnamed	
Conc:	0.58 of which	* named and	0.58	unnamed	

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	18:45	0.78	y	0.44	11466	2.9	n	n
						14720	2.3	n	n
	2	19:56	1.74	n	0.14	7961	2.1	n	n
						4570	0.9	n	n

Run Text: LT77C-1-AA Sample text: LT77C-1-AA :G0B040517-12

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:4
Run: 16 File: 17FE104D5 S:12 Acq:17-FEB-10 17:38:10
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	0.62 of which	0.19 named and	0.42	unnamed
Conc:	0.60 of which	0.19 named and	0.41	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	22:55	0.37	n	0.07	2829	2.4	n	n
						7575	1.7	n	n
	2	24:18	0.43	n	0.13	5125	2.5	n	n
						11808	1.7	n	n
1,2,3,7,8-PeCDF	3	24:22	0.65	n	0.19	7689	5.3	y	n
						11808	1.7	n	n
	4	24:27	1.10	n	0.22	8575	5.7	y	n
						7785	1.8	n	n

Run Text: LT77C-1-AA Sample text: LT77C-1-AA :G0B040517-12

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:21
Run: 16 File: 17FE104D5 S:12 Acq:17-FEB-10 17:38:10
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1.82 of which	* named and	1.82	unnamed	
Conc:	1.78 of which	* named and	1.78	unnamed	

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	14:33	0.14	n	0.03	1348	15.7	y	n
						9404	3.1	y	n
	2	14:40	0.47	n	0.05	2053	22.0	y	n
						4414	1.9	n	n
	3	15:06	0.66	n	0.03	1384	13.6	y	n
						2091	0.9	n	n
	4	16:01	0.34	n	0.02	844	8.9	y	n
						2511	1.3	n	n
	5	16:08	0.71	n	0.06	2587	29.0	y	n
						3665	1.2	n	n
	6	16:31	0.30	n	0.31	12438	64.6	y	n
						41613	10.5	y	n
	7	17:28	0.41	n	0.11	4497	52.9	y	n
						10852	2.8	n	n
	8	18:06	0.51	n	0.11	4189	42.6	y	n
						8271	2.4	n	n
	9	18:25	0.95	n	0.13	5284	32.4	y	n
						5569	1.8	n	n
	10	18:40	0.81	n	0.09	3668	39.0	y	n
						4521	1.5	n	n
	11	18:51	1.72	y	0.08	3519	41.6	y	n
						2040	1.0	n	n
	12	18:59	0.45	n	0.04	1462	15.1	y	n
						3213	1.0	n	n
	13	19:16	0.09	n	0.01	332	3.1	y	n
						3857	1.5	n	n
	14	19:24	0.26	n	0.03	997	9.8	y	n
						3849	1.3	n	n
	15	19:29	0.15	n	0.01	559	5.0	y	n
						3849	1.3	n	n
	16	19:42	0.95	n	0.11	4476	45.1	y	n

					4724	2.1	n	n
17	19:48	0.53	n	0.06	2579	17.9	y	n
					4839	1.5	n	n
18	19:54	0.17	n	0.02	799	9.8	y	n
					4839	1.5	n	n
19	20:22	0.15	n	0.14	5742	64.4	y	n
					38928	9.4	y	n
20	20:26	0.23	n	0.23	9086	85.2	y	n
					38928	9.4	y	n
21	22:04	0.94	n	0.08	3272	27.6	y	n
					3478	1.1	n	n

Run Text: LT77C-1-AA Sample text: LT77C-1-AA :G0B040517-12

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:4
Run: 16 File: 17FE104D5 S:12 Acq:17-FEB-10 17:38:10
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	5.27 of which	* named and	5.27	unnamed
Conc:	5.15 of which	* named and	5.15	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	24:07	1.41	y	1.70	37844	2.6	n	n
						26803	6.3	y	n
	2	24:42	2.31	n	1.60	54894	4.2	y	n
						23779	7.5	y	n
	3	25:58	2.44	n	0.93	33592	5.4	y	n
						13792	3.2	y	n
	4	26:03	2.24	n	0.93	30961	3.9	y	n
						13792	3.2	y	n

Run Text: LT77C-1-AA Sample text: LT77C-1-AA :G0B040517-12

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:4
Run: 16 File: 17FE104D5 S:12 Acq:17-FEB-10 17:38:10
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1.69 of which	1.69 named and	*	unnamed
Conc:	1.65 of which	1.65 named and	*	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,7,8-HxCDF	1	31:50	0.87	n	0.47	13728	3.2	y	n
						15792	2.8	n	n
1,2,3,6,7,8-HxCDF	2	32:01	1.79	n	0.38	18883	3.5	y	n
						10547	3.0	y	n
2,3,4,6,7,8-HxCDF	3	32:34	1.26	y	0.51	16066	3.7	y	n
						12761	2.6	n	n
1,2,3,7,8,9-HxCDF	4	33:12	0.89	n	0.29	8336	2.0	n	n
						9389	4.0	y	n

Run Text: LT77C-1-AA Sample text: LT77C-1-AA :G0B040517-12

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:0
Run: 16 File: 17FE104D5 S:12 Acq:17-FEB-10 17:38:10
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	* of which	* named and	*	unnamed
Conc:	* of which	* named and	*	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	NotF	*	n	*	*	*	n	n
						*	*	n	n

Run Text: LT77C-1-AA Sample text: LT77C-1-AA :G0B040517-12

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:2
Run: 16 File: 17FE104D5 S:12 Acq:17-FEB-10 17:38:10
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

Amount:	1.11 of which	1.11 named and	*	unnamed
Conc:	1.08 of which	1.08 named and	*	unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	34:33	1.31	n	0.60	19301	2.8	n	n

						14756	4.5	y	n
1,2,3,4,7,8,9-HpCDF	2	35:40	0.61	n	0.48	10393	2.1	n	n
						17111	3.9	y	n

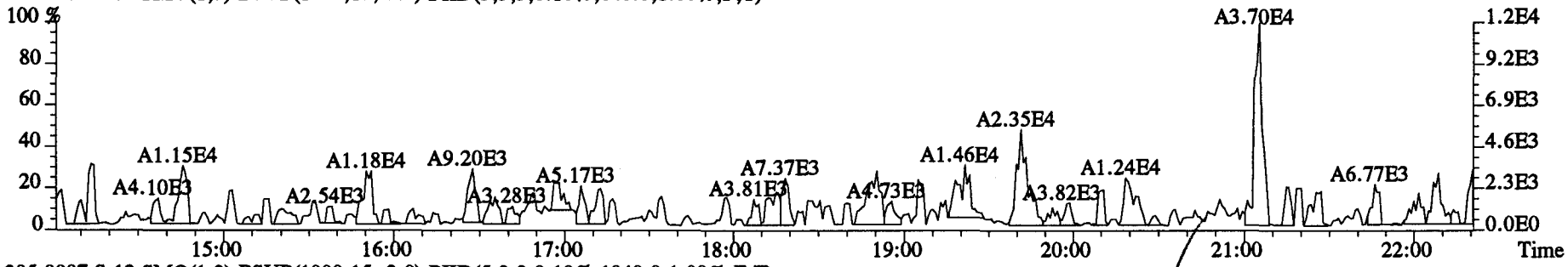
Run Text: LT77C-1-AA Sample text: LT77C-1-AA :G0B040517-12

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:5
Run: 16 File: 17FE104D5 S:12 Acq:17-FEB-10 17:38:10
Tables: Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D

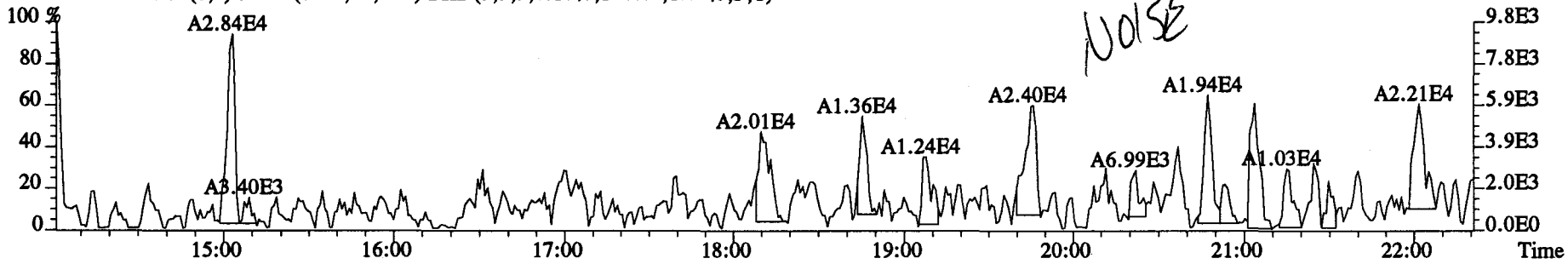
Amount:	3.29	of which	0.74	named and	2.55 unnamed
Conc:	3.22	of which	0.73	named and	2.49 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	34:18	0.93	y	0.25	4013	1.1	n	n
						4323	1.6	n	n
	2	34:32	4.50	n	0.42	30418	4.5	y	n
						6762	1.8	n	n
	3	34:47	0.94	y	1.37	21906	3.5	y	n
						23310	5.0	y	n
1,2,3,4,6,7,8-HpCDD	4	35:22	0.39	n	0.73	12264	2.8	n	n
						31614	7.8	y	n
	5	35:38	2.12	n	0.45	15674	3.5	y	n
						7377	2.7	n	n

File:17FE104D5 #1-578 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN
303.9016 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,640.0,1.00%,F,T)

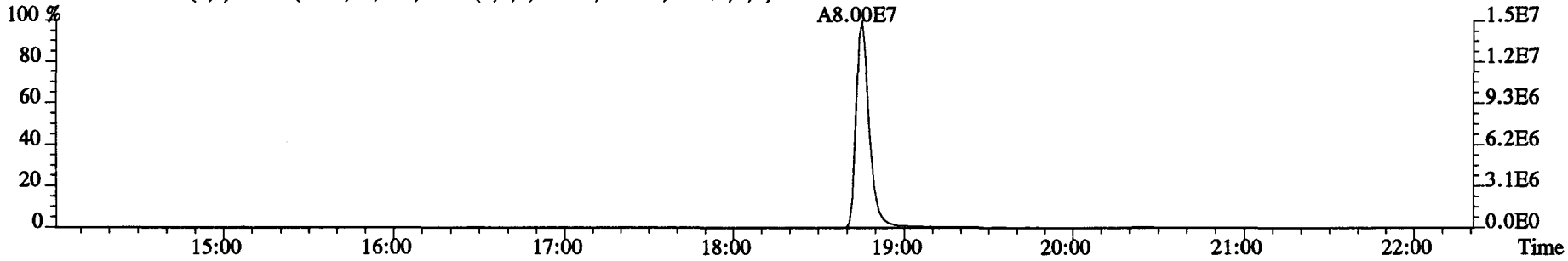


305.8987 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1840.0,1.00%,F,T)

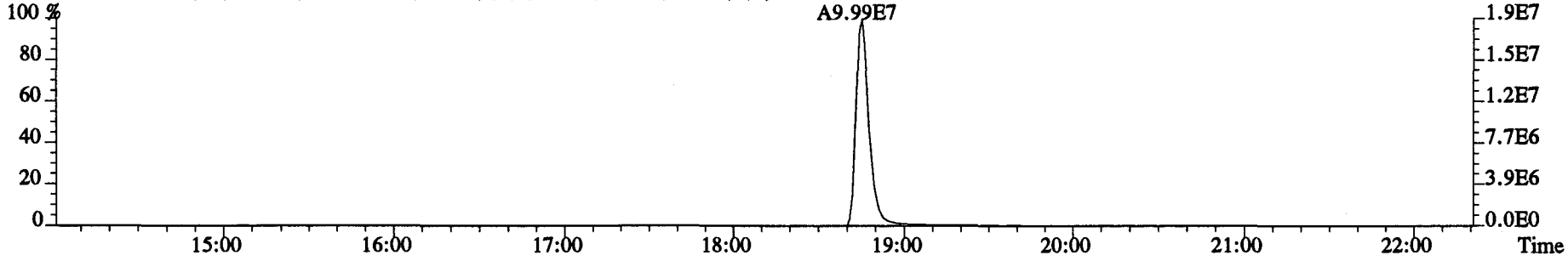


NOISE

315.9419 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3996.0,1.00%,F,T)

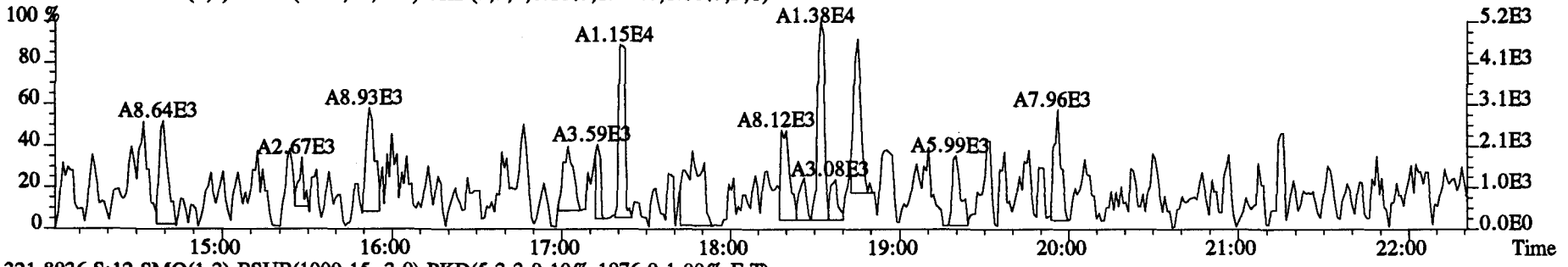


317.9389 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3108.0,1.00%,F,T)

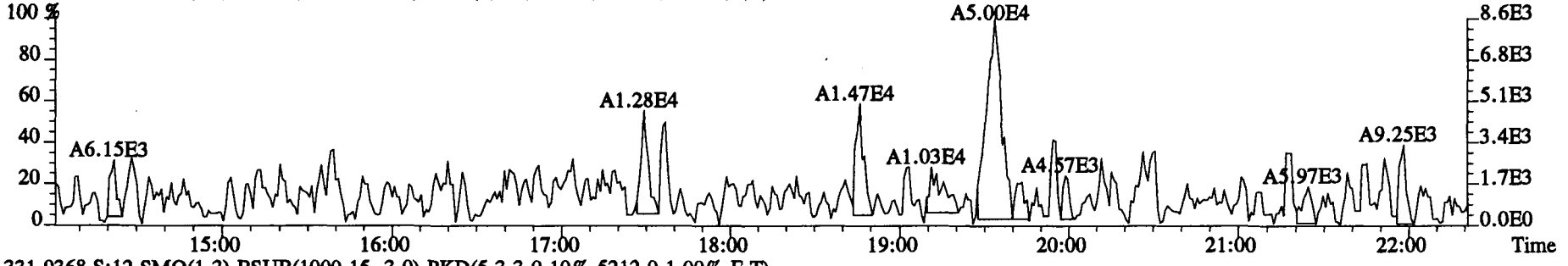


File:17FE104D5 #1-578 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN

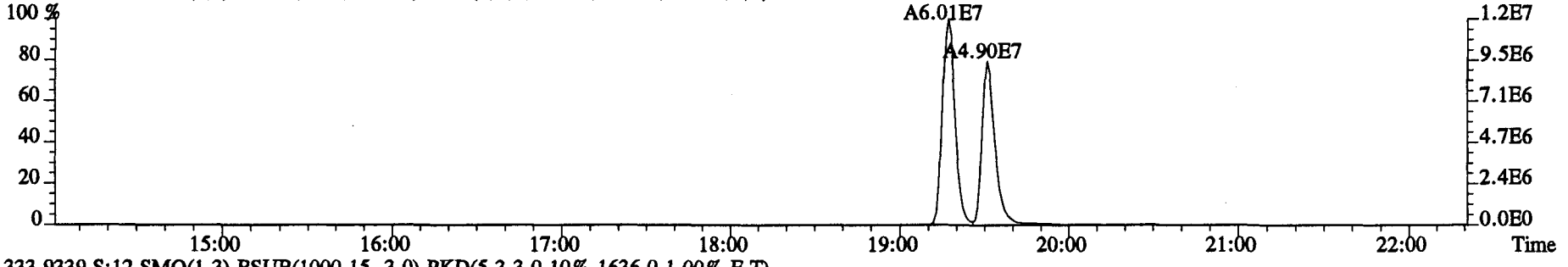
319.8965 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1300.0,1.00%,F,T)



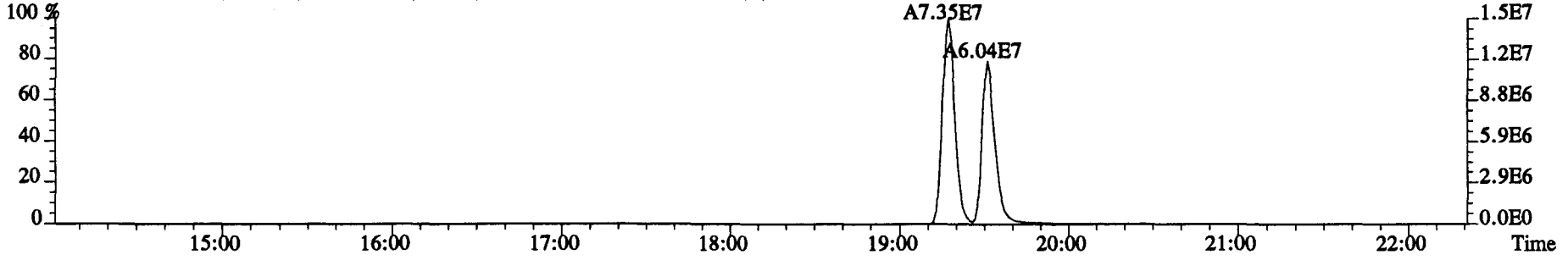
321.8936 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1976.0,1.00%,F,T)



331.9368 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5212.0,1.00%,F,T)

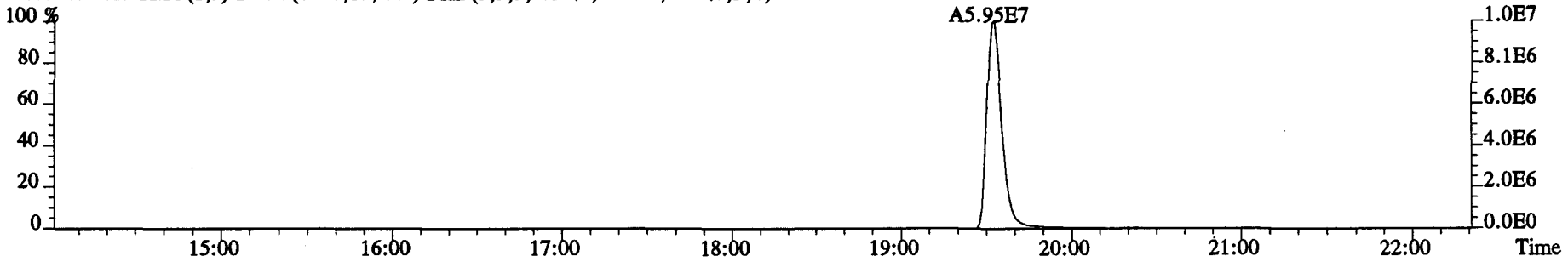


333.9339 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1636.0,1.00%,F,T)

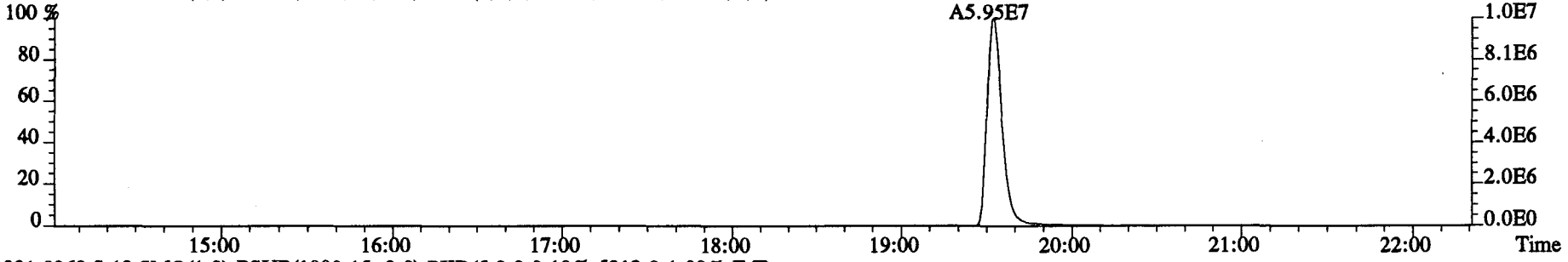


File:17FE104D5 #1-578 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN

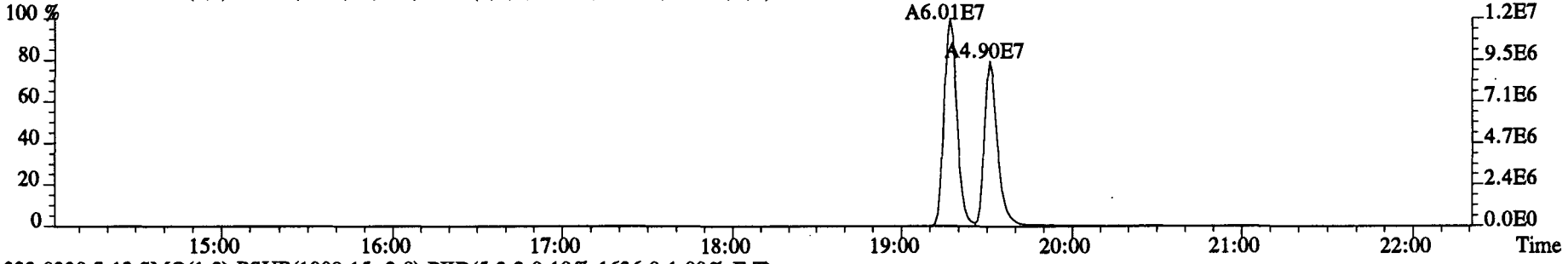
327.8847 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1440.0,1.00%,F,T)



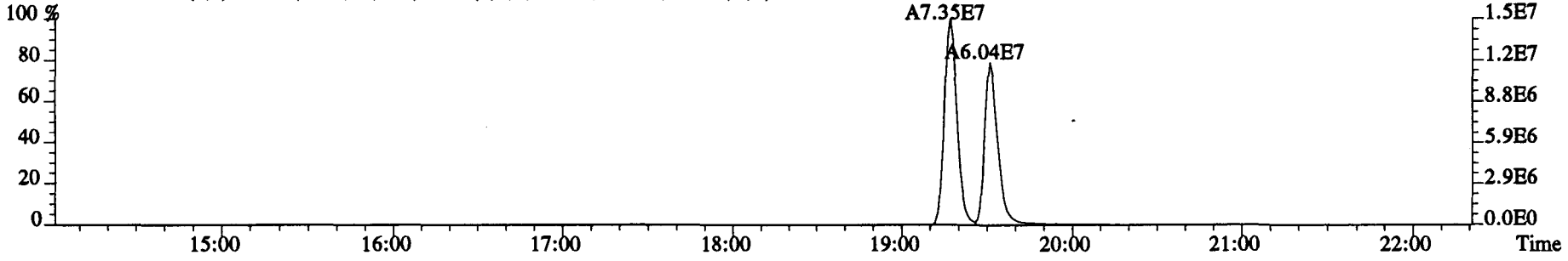
327.8847 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1440.0,1.00%,F,T)



331.9368 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5212.0,1.00%,F,T)

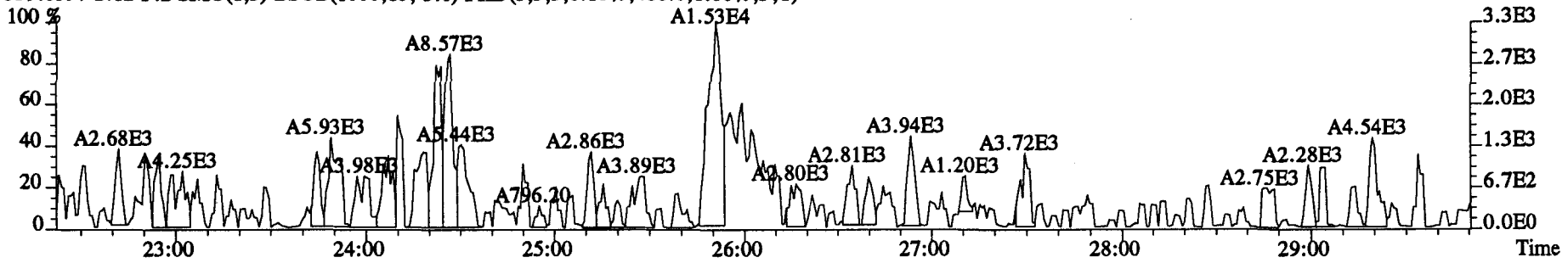


333.9339 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1636.0,1.00%,F,T)

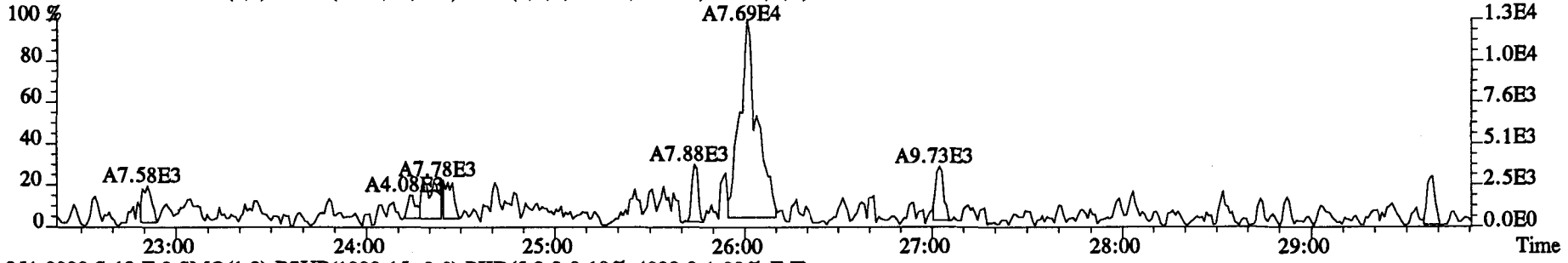


File:17FE104D5 #1-596 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN

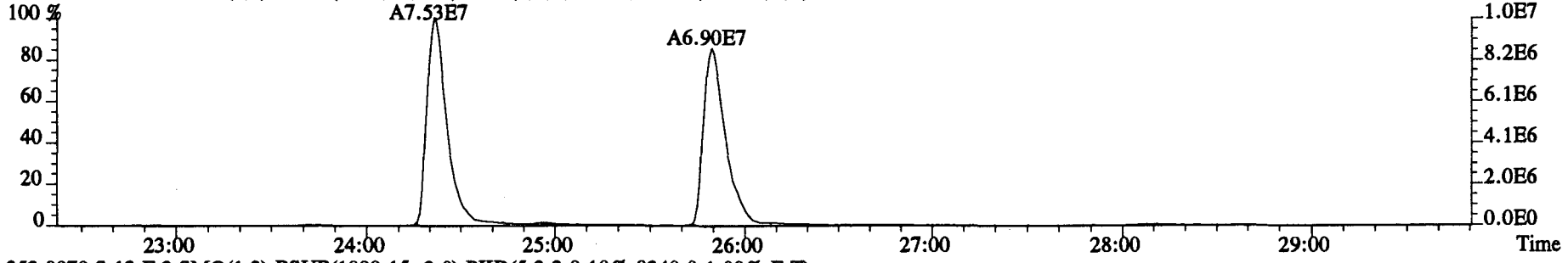
339.8597 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,488.0,1.00%,F,T)



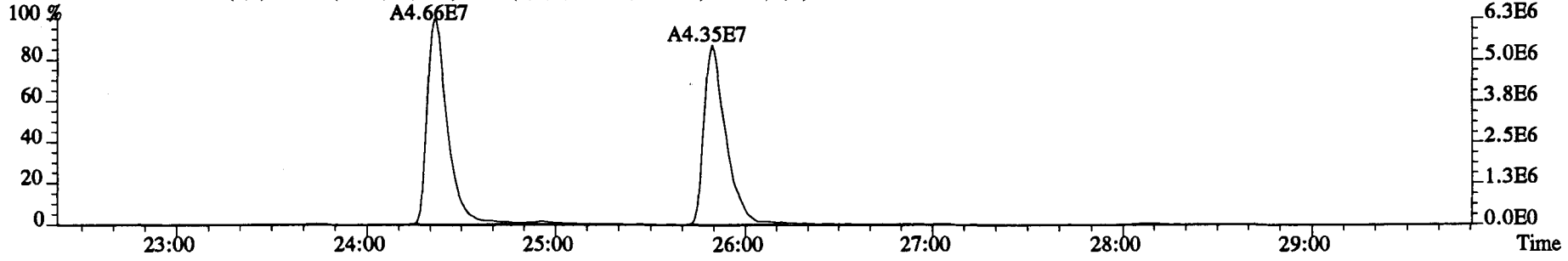
341.8567 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1300.0,1.00%,F,T)



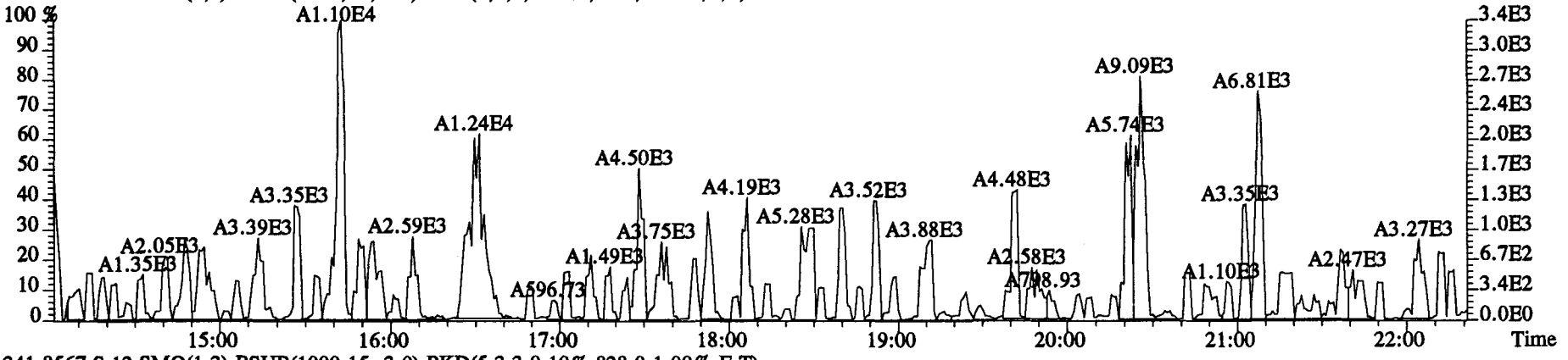
351.9000 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4028.0,1.00%,F,T)



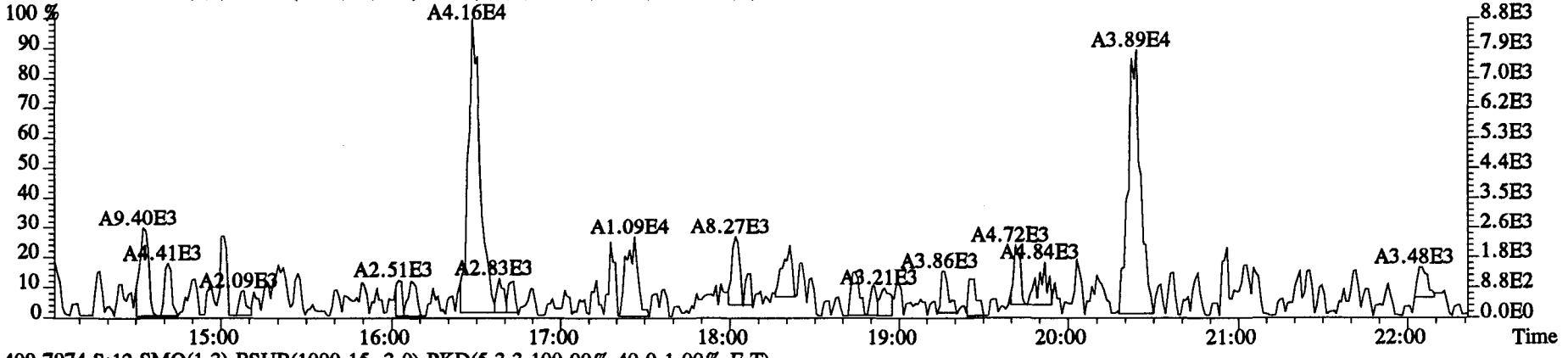
353.8970 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8340.0,1.00%,F,T)



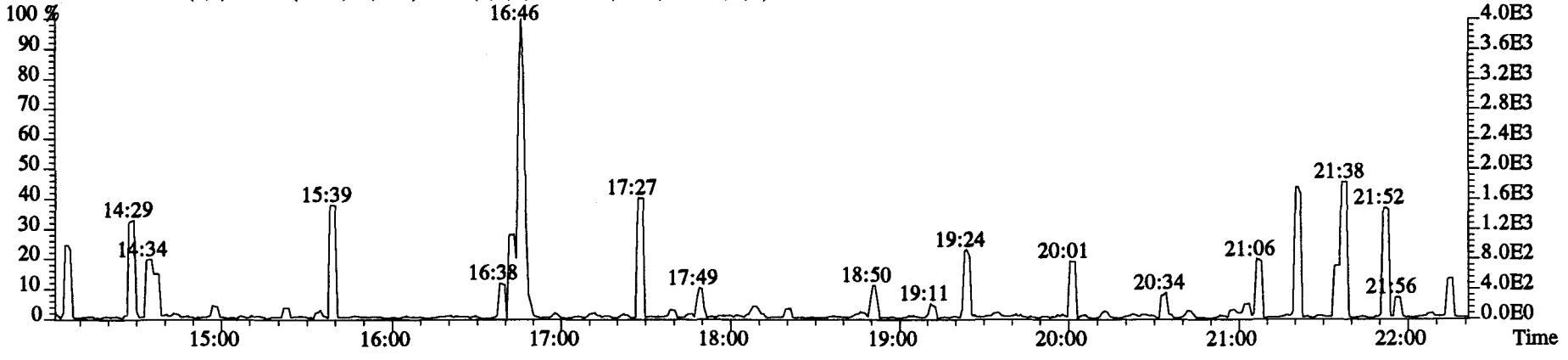
File:17FE104D5 #1-578 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN
339.8597 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32.0,1.00%,F,T)



341.8567 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,828.0,1.00%,F,T)

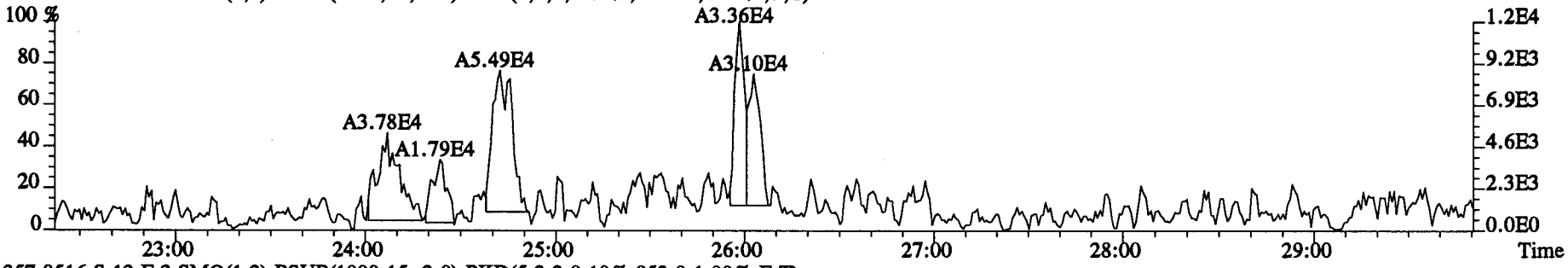


409.7974 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,40.0,1.00%,F,T)

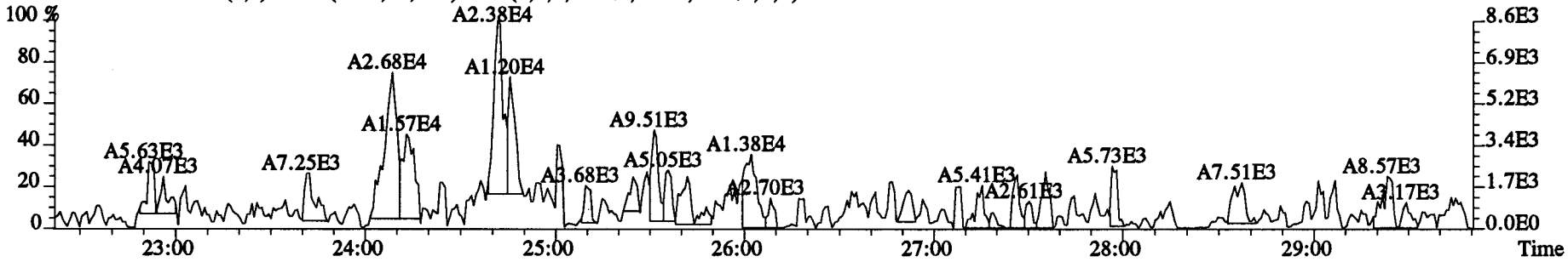


File:17FE104D5 #1-596 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN

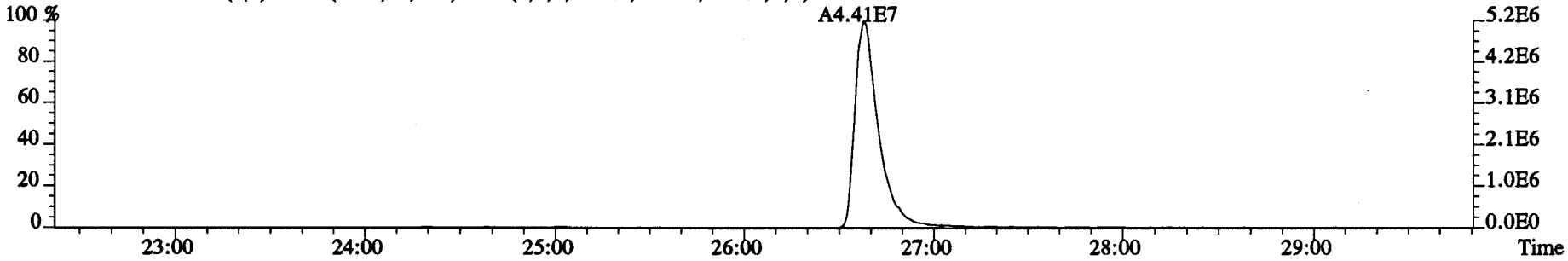
355.8546 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1868.0,1.00%,F,T)



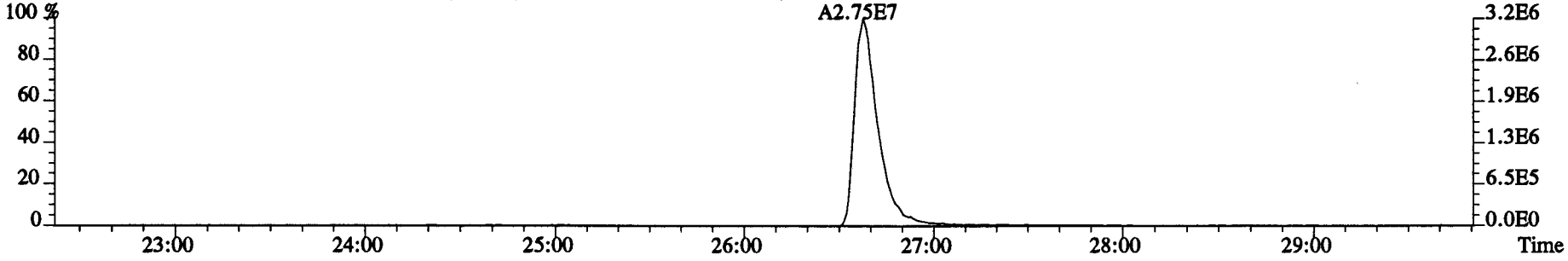
357.8516 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,952.0,1.00%,F,T)



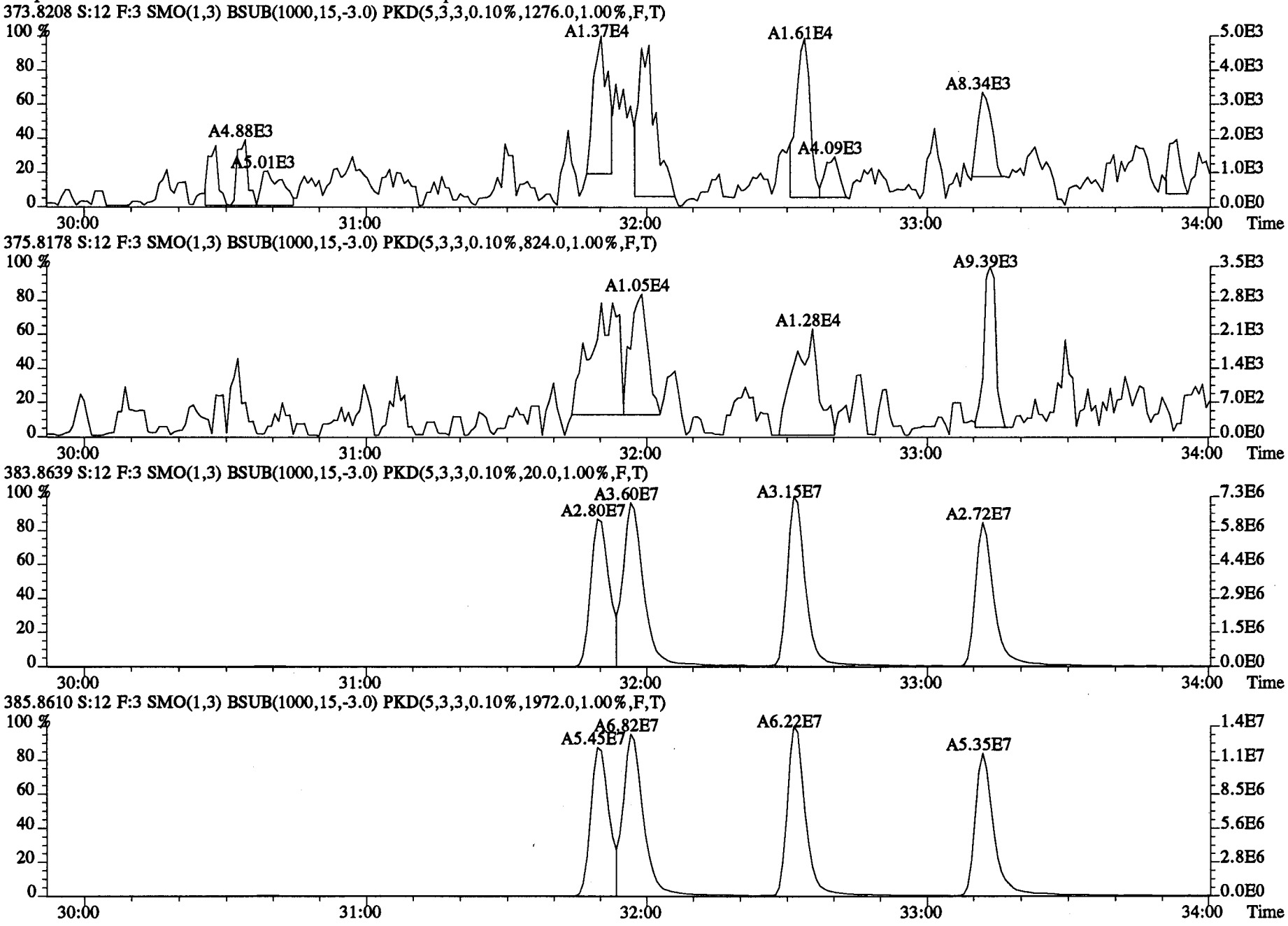
367.8949 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1324.0,1.00%,F,T)



369.8919 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)

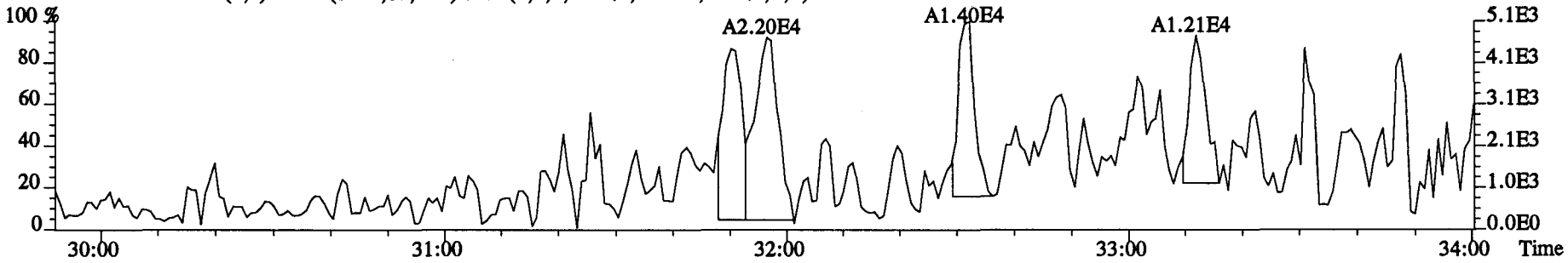


File:17FE104D5 #1-314 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN

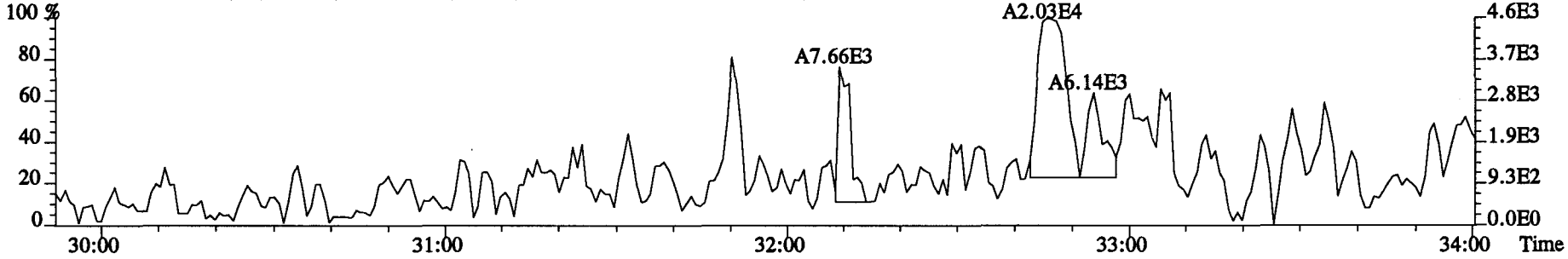


File:17FE104D5 #1-314 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN

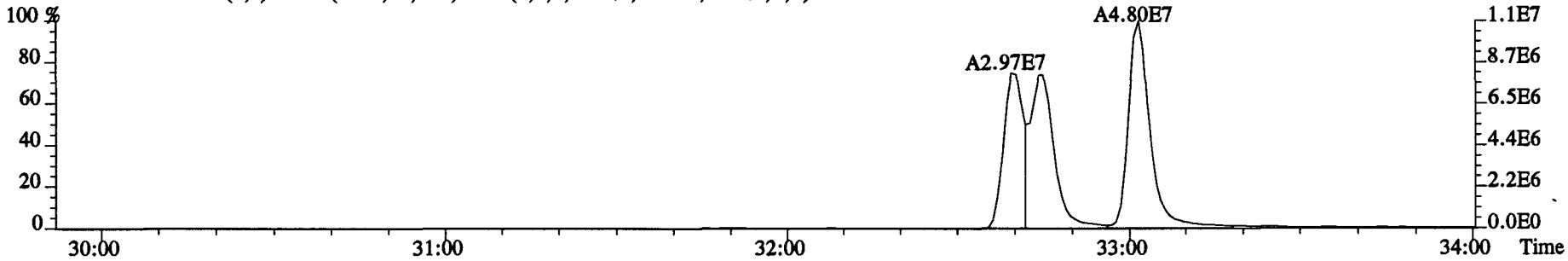
389.8157 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2148.0,1.00%,F,T)



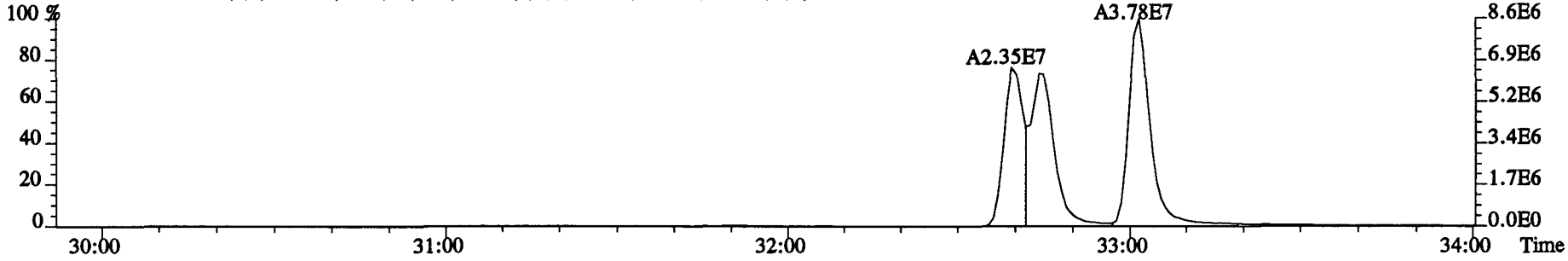
391.8127 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1676.0,1.00%,F,T)



401.8559 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2856.0,1.00%,F,T)

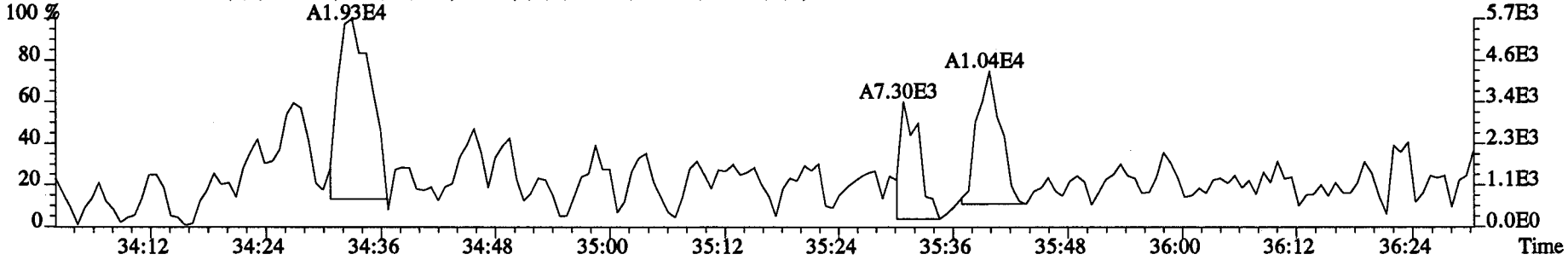


403.8529 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1372.0,1.00%,F,T)

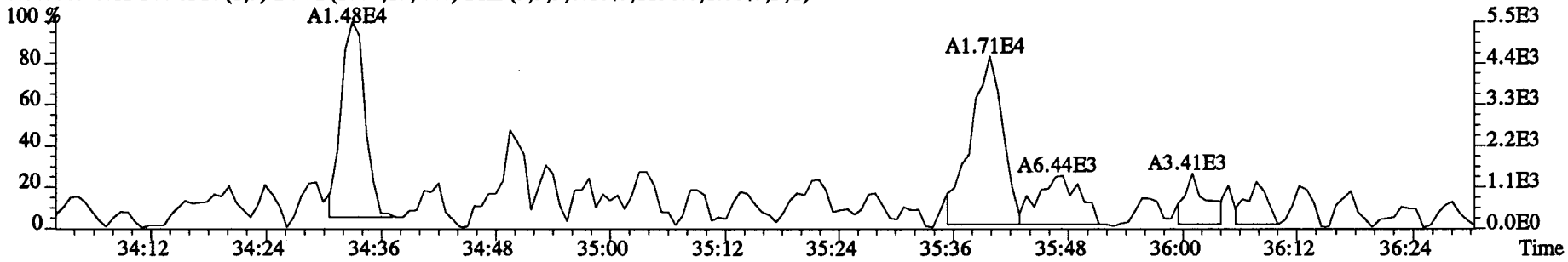


File:17FE104D5 #1-198 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN

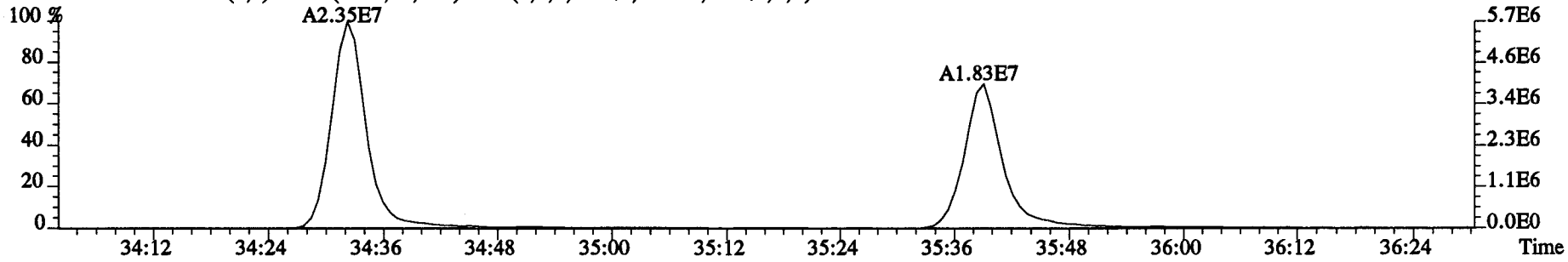
407.7818 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1776.0,1.00%,F,T)



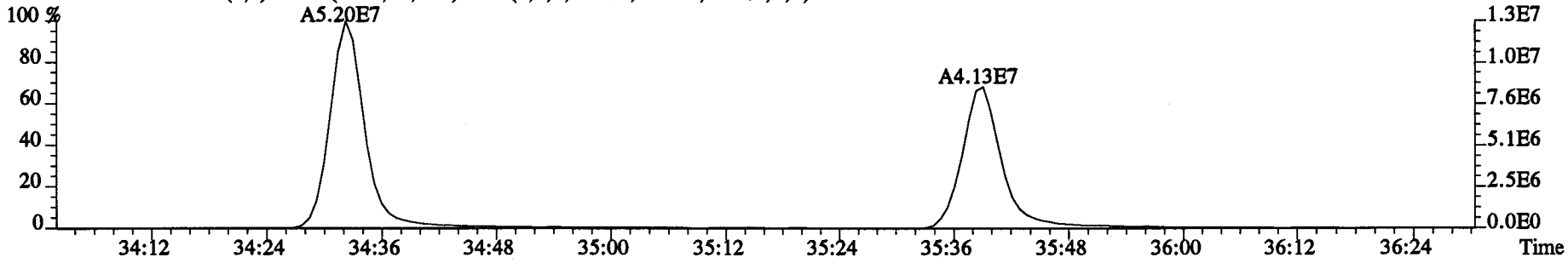
409.7789 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1136.0,1.00%,F,T)



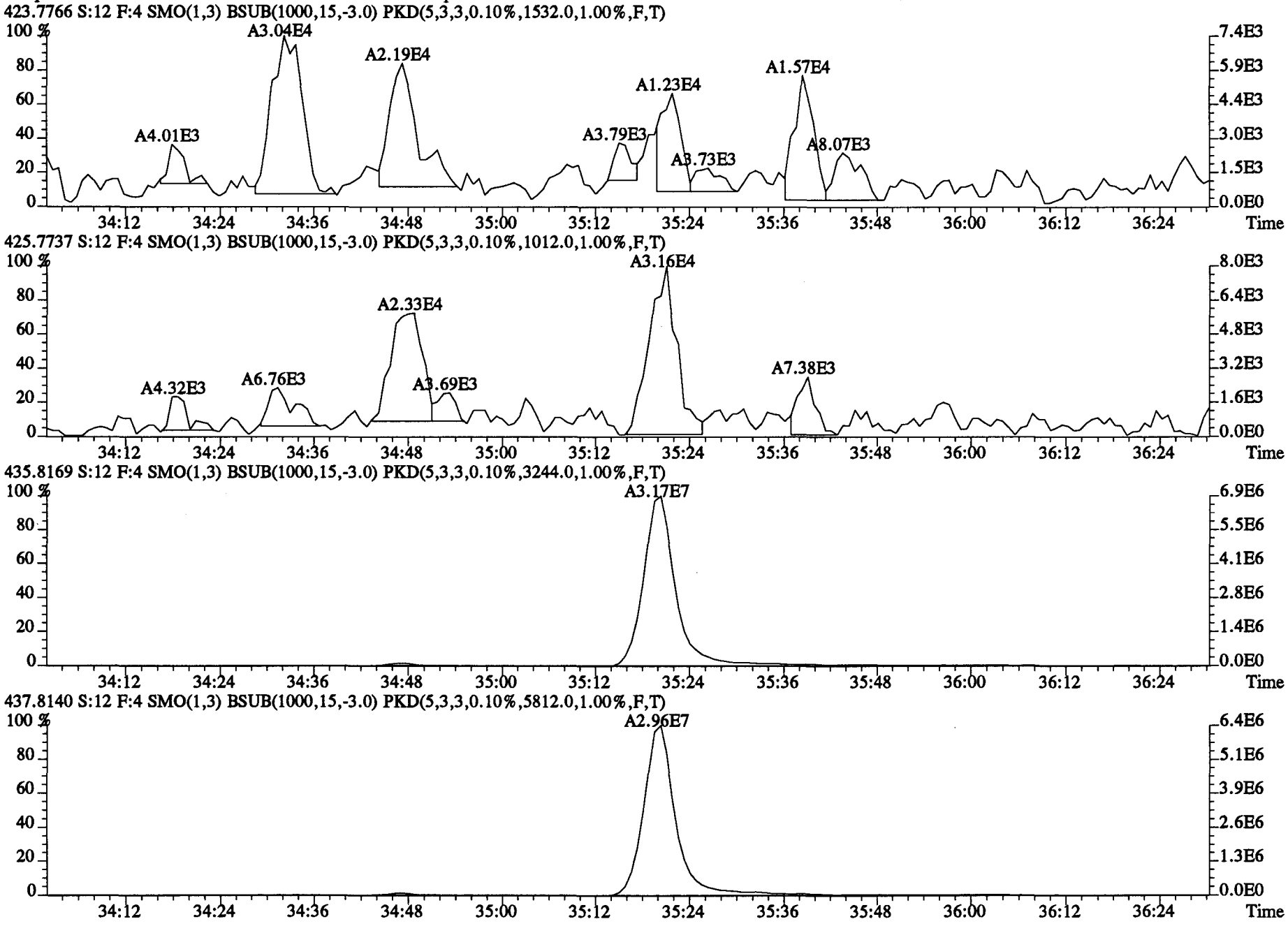
417.8253 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9204.0,1.00%,F,T)



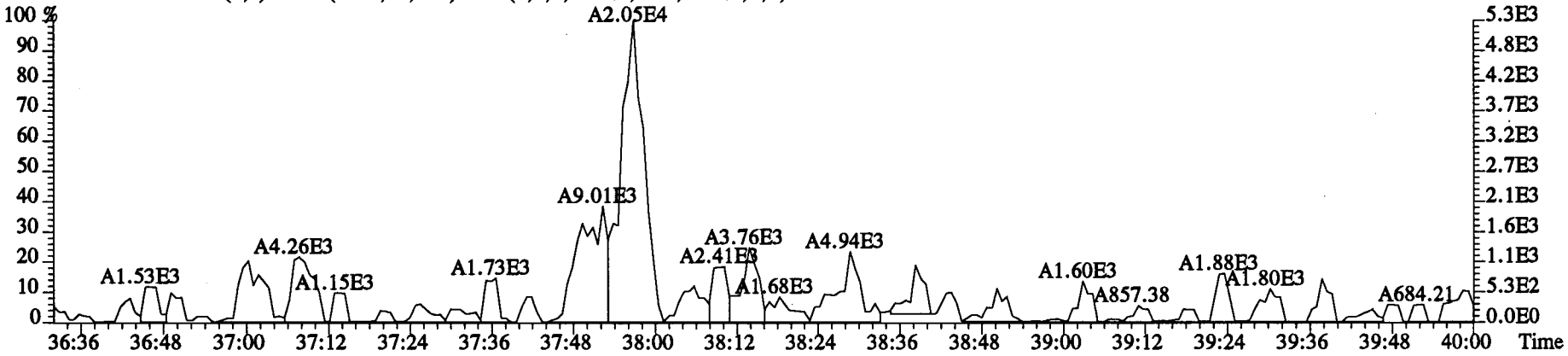
419.8220 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7732.0,1.00%,F,T)



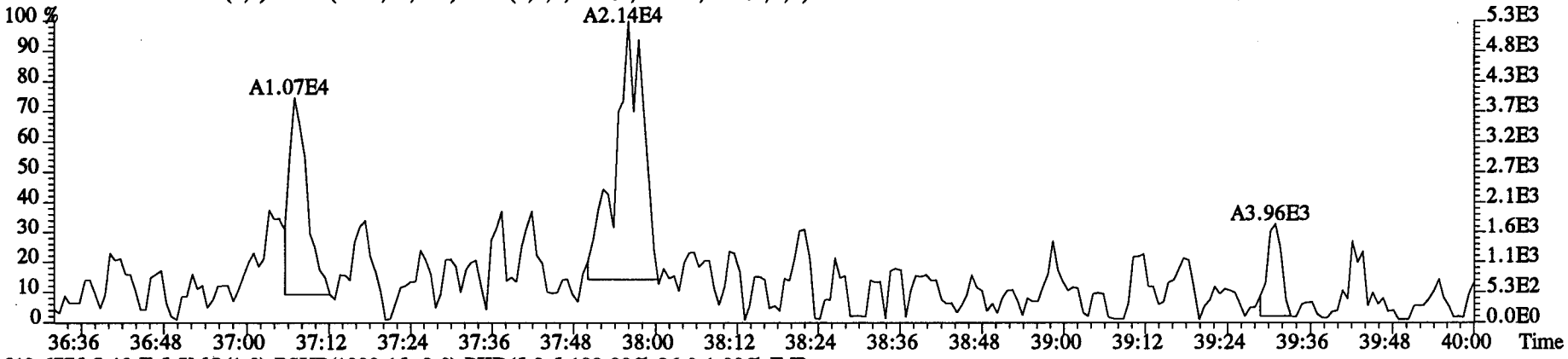
File:17FE104D5 #1-198 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN



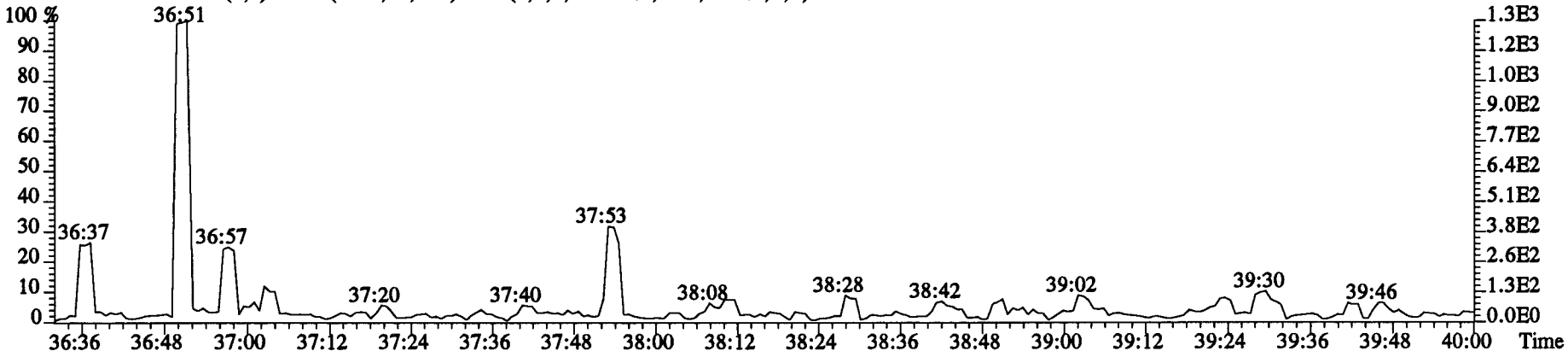
File:17FE104D5 #1-281 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN
441.7428 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24.0,1.00%,F,T)



443.7399 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1184.0,1.00%,F,T)

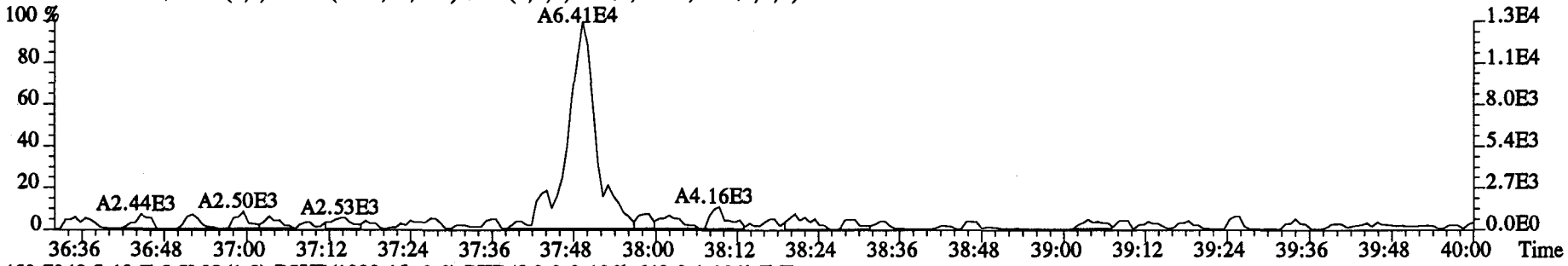


513.6775 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,36.0,1.00%,F,T)

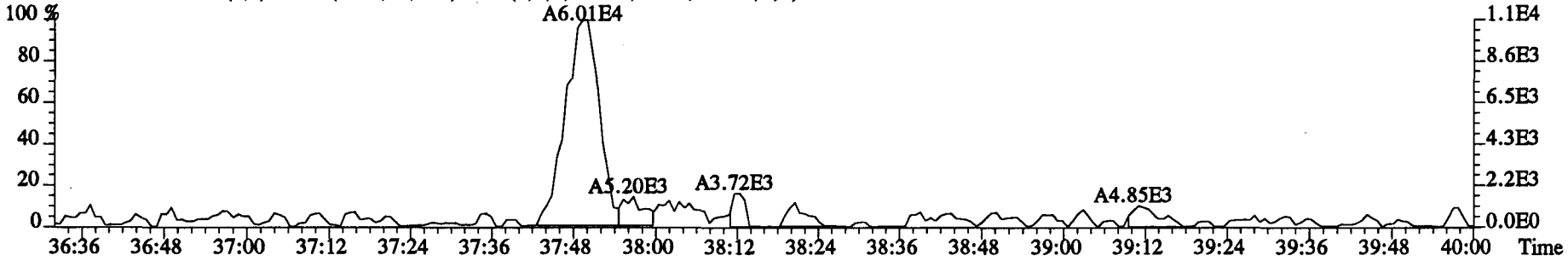


File:17FE104D5 #1-281 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN

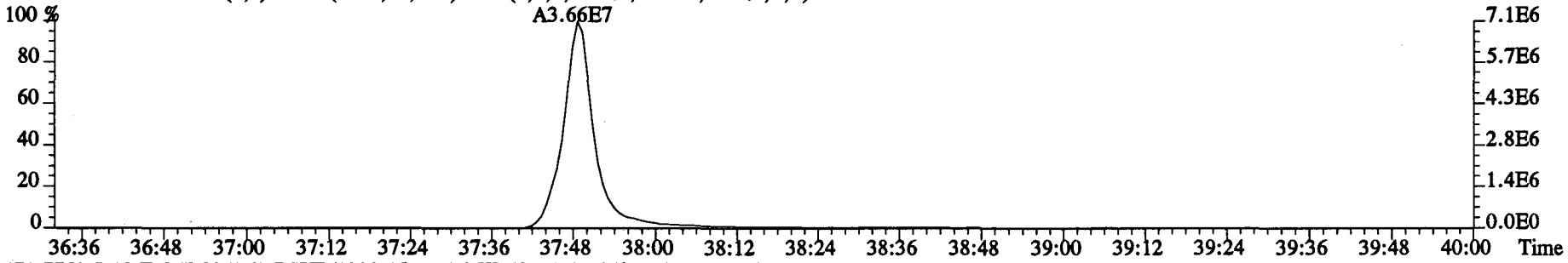
457.7377 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,344.0,1.00%,F,T)



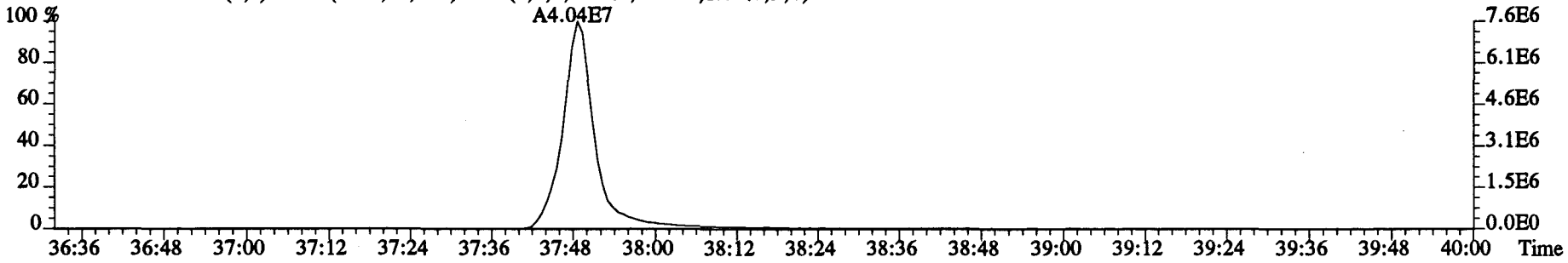
459.7348 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,648.0,1.00%,F,T)



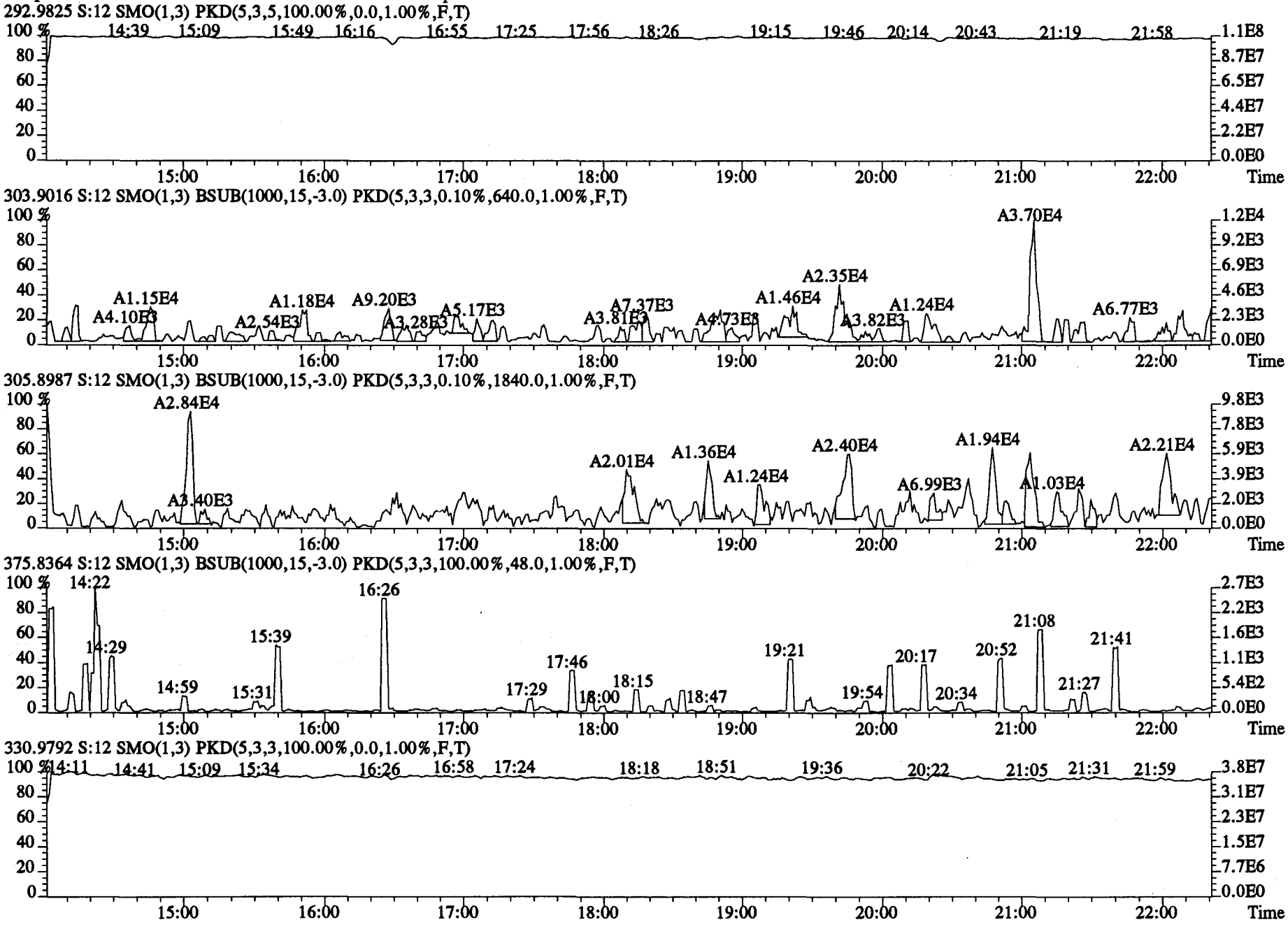
469.7779 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3400.0,1.00%,F,T)



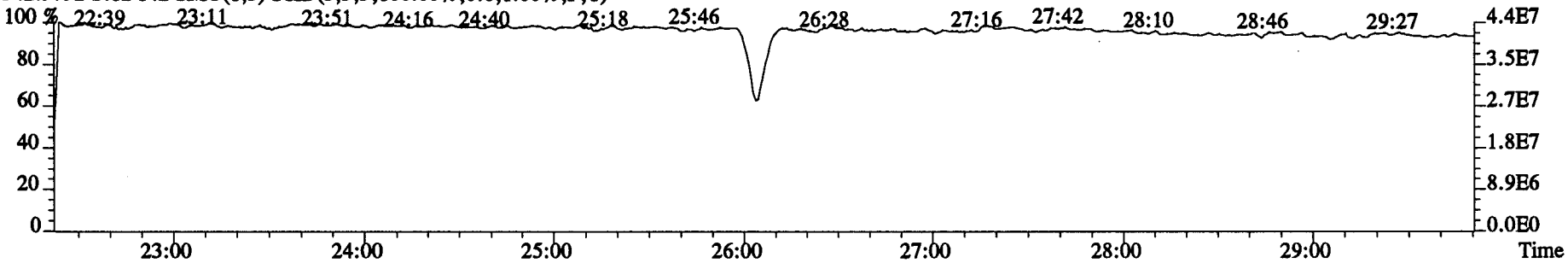
471.7750 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3364.0,1.00%,F,T)



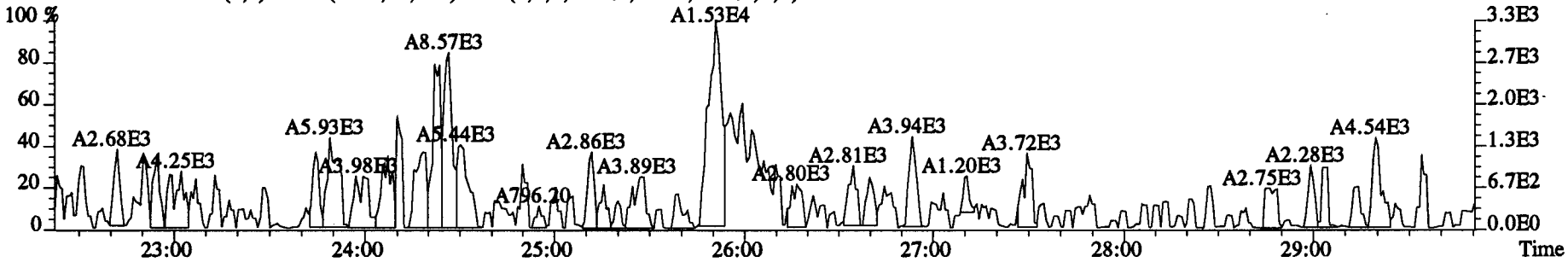
File:17FE104D5 #1-578 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN



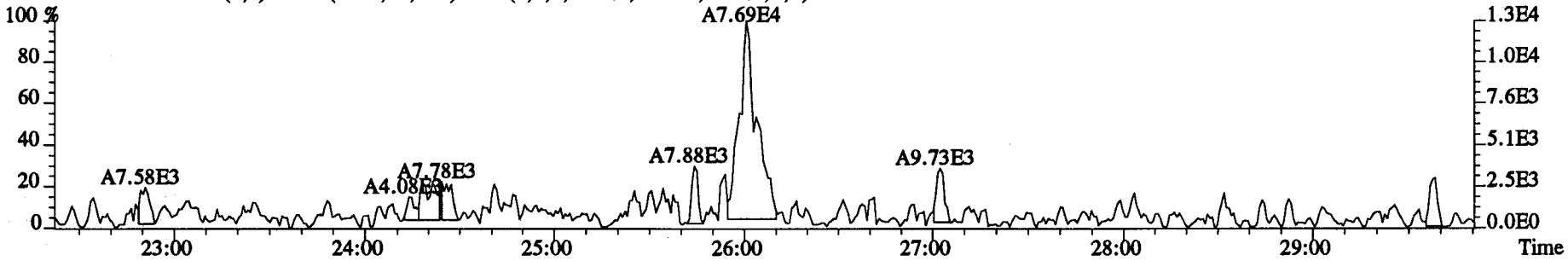
File:17FE104D5 #1-596 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN
342.9792 S:12 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



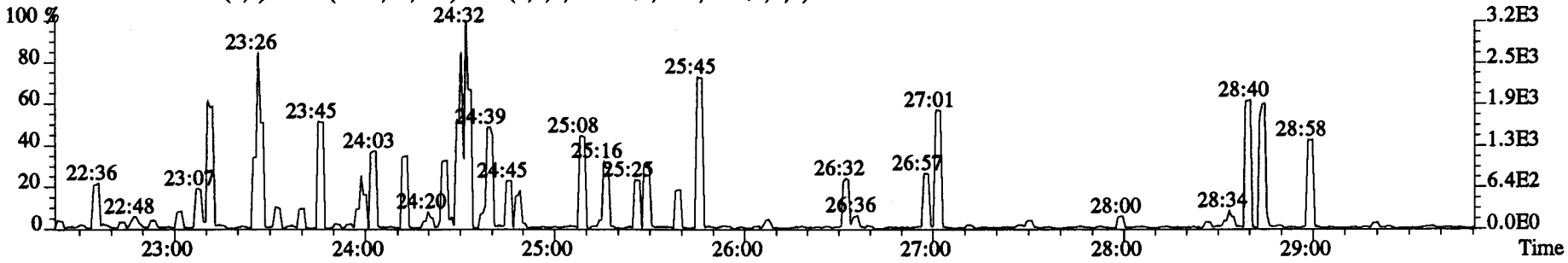
339.8597 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,488.0,1.00%,F,T)



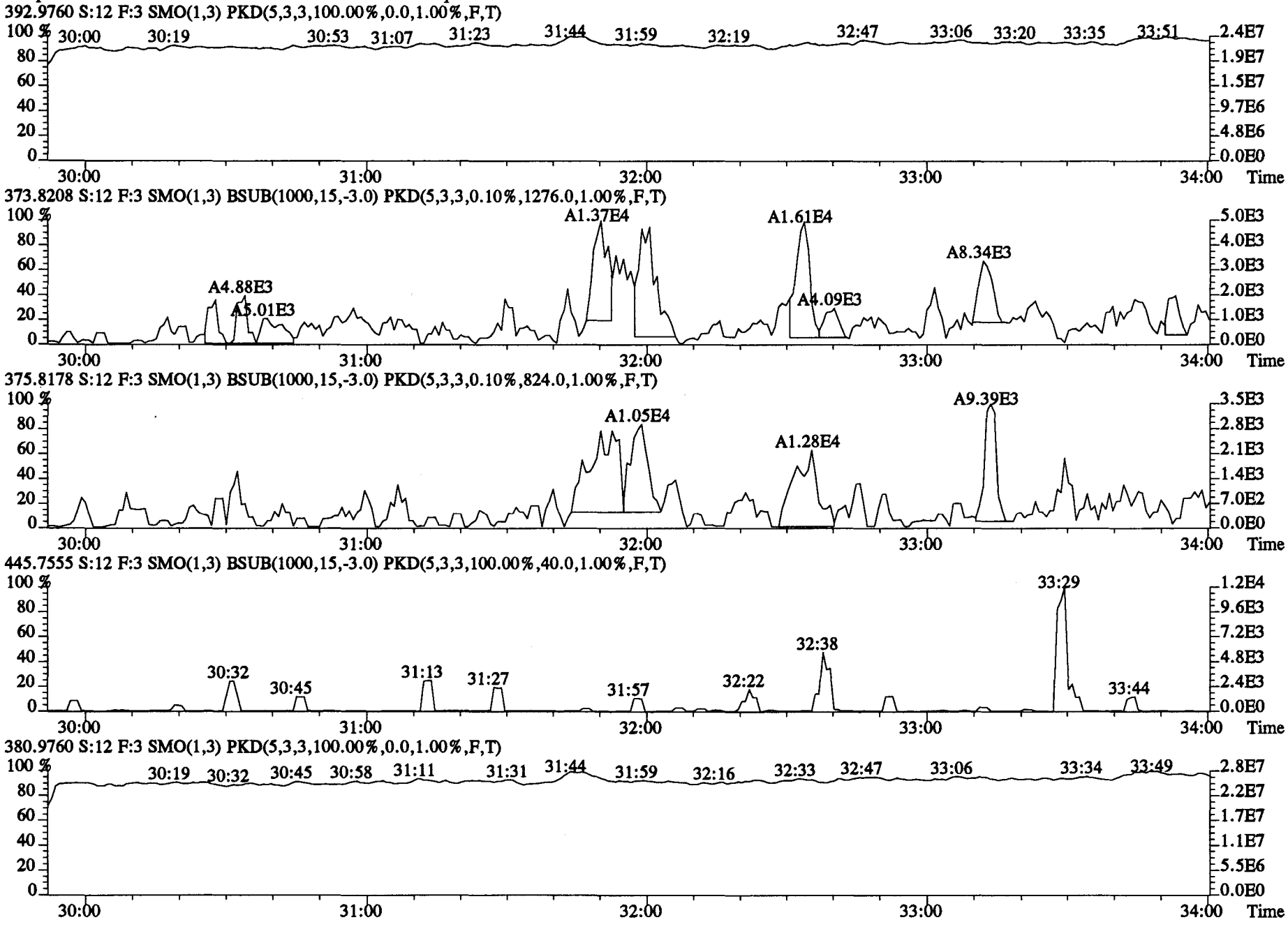
341.8567 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1300.0,1.00%,F,T)



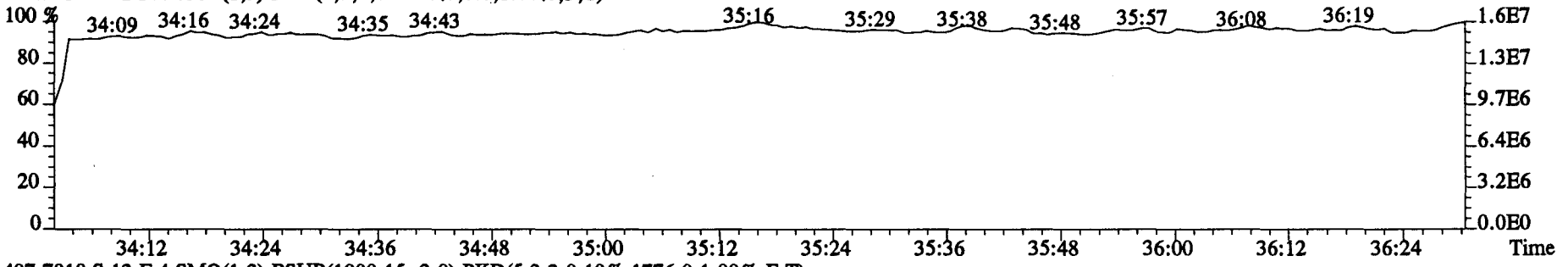
409.7974 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,36.0,1.00%,F,T)



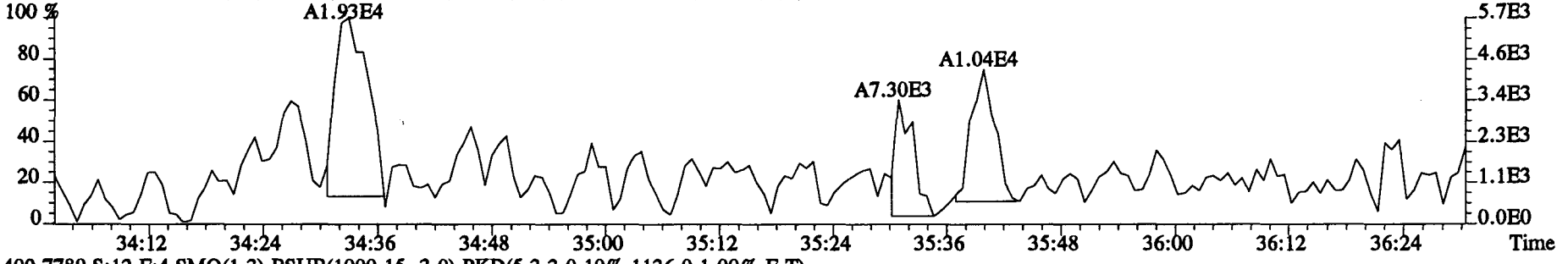
File:17FE104D5 #1-314 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN



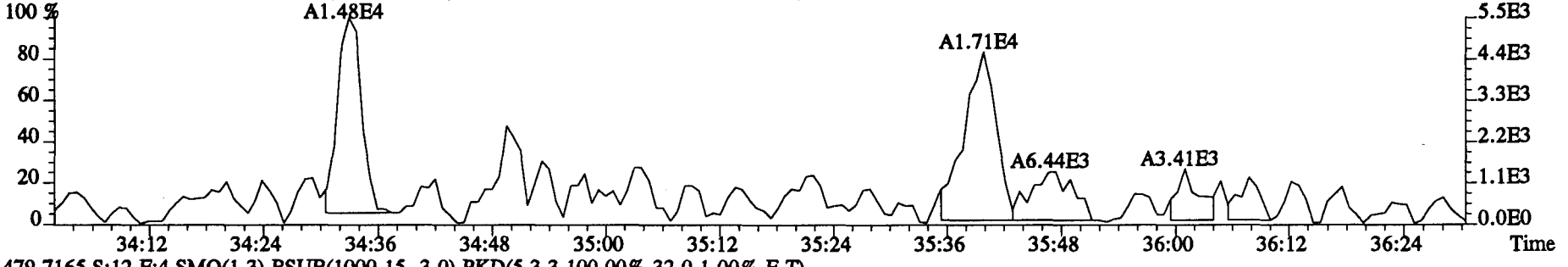
File:17FE104D5 #1-198 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN
430.9728 S:12 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



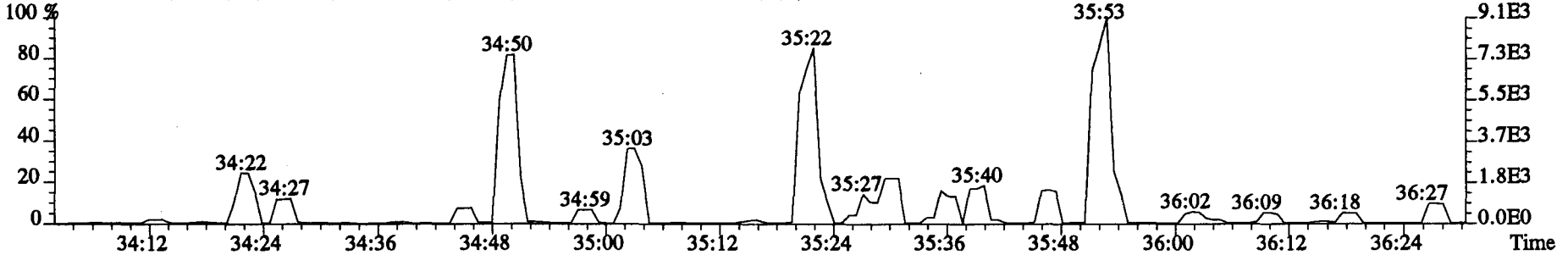
407.7818 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1776.0,1.00%,F,T)



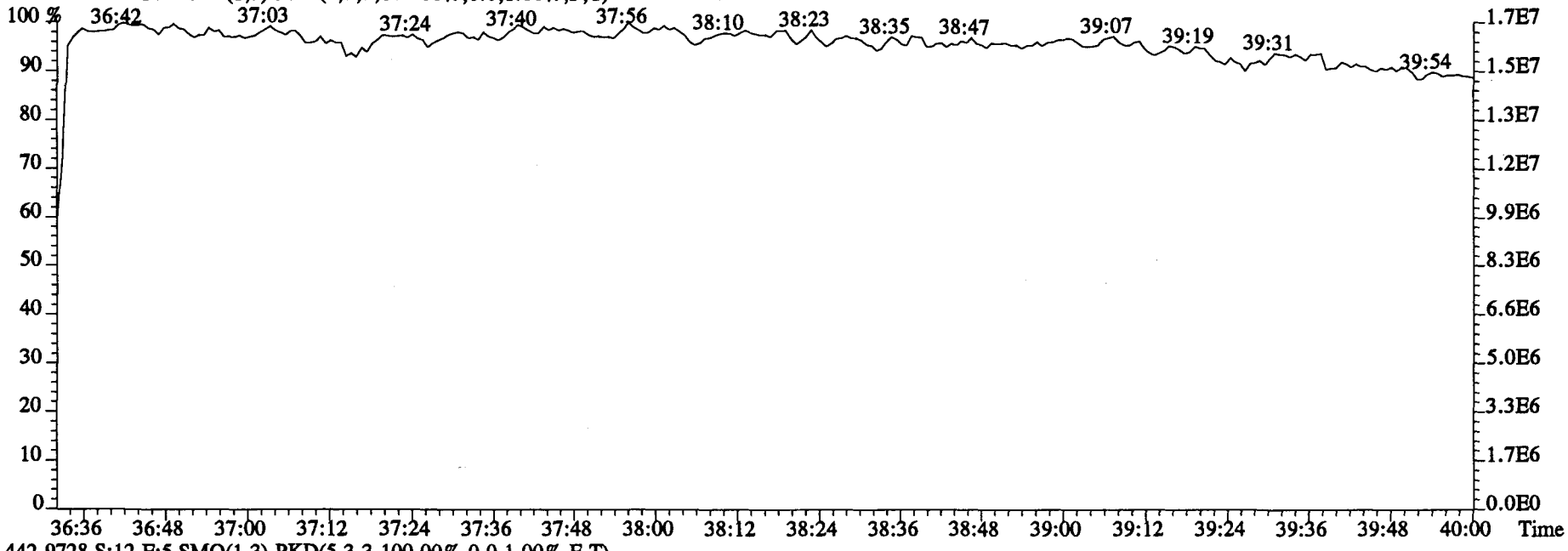
409.7789 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1136.0,1.00%,F,T)



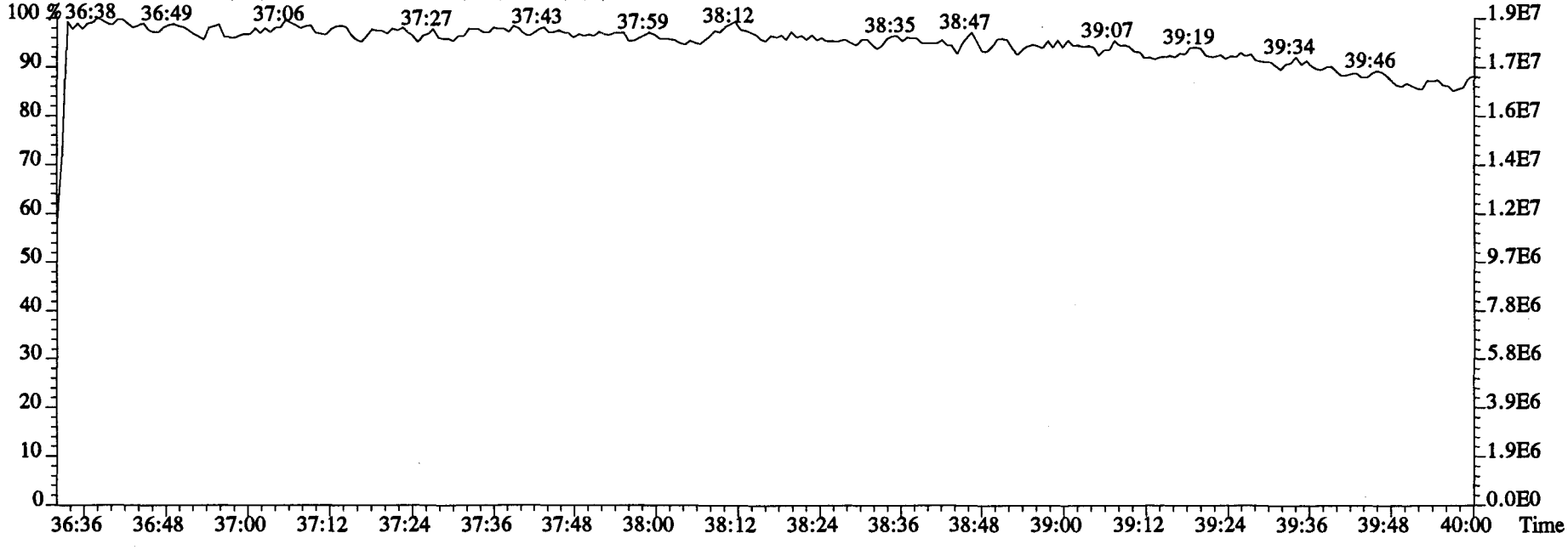
479.7165 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,32.0,1.00%,F,T)



File:17FE104D5 #1-281 Acq:17-FEB-2010 17:38:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text:LT77C-1-AA :G0B040517-12 Exp:DIOXIN
454.9728 S:12 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:12 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



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Daily Calibration Checklist
Dioxin Methods

Method ID 8290 **Associated ICAL** 829002041 04D5

Column ID DB5 **Instrument ID** 4D5

STD ID ST0217, ST0217A **STD Solution** 09DXN425

Analyzed by KSS **Date Analyzed** 2-17-10

Std. Pkg. By SH **Date Std. Pkg. Assembled** 2-18-10

Std. Pkg. Reviewed By MQ **Date Std. Pkg. Reviewed** 2/18/10

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?**	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for **all** 1613B samples)	NA	NA

COMMENTS:

* **Method 8290/TO9/M0023A: (beginning)** ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.
Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.
Method 23: See Method 23 Daily Standard Criteria, Table 5.
Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria,
** **Method 23/0023A CPSM Criteria**: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet
Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST0217 File text: ST0217 :CS3 09DXN425
Run #6 Filename 17FE104D5 S: 2 I: 1
Acquired: 17-FEB-10 10:17:49 Processed: 17-FEB-10 15:33:16
Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D58290

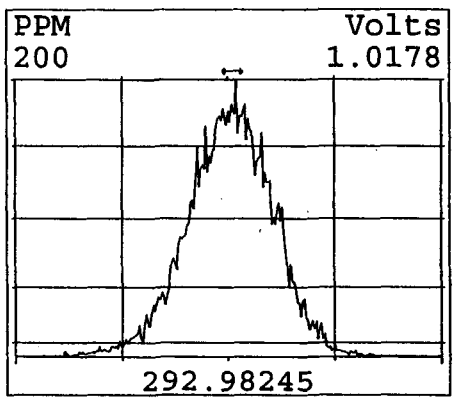
Name	Resp	RA		RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	74577300	0.81	y	19:17	-	100.00	-	n
13C-2,3,7,8-TCDF	119663300	0.79	y	18:44	1.60	100.00	2.2	n
2,3,7,8-TCDF	12751810	0.77	y	18:45	1.07	10.00	1.3	n
Total TCDF	12927378	1.40	n	16:56	1.07	10.00	1.3	n
13C-2,3,7,8-TCDD	74654600	0.81	y	19:31	1.00	100.00	0.0	n
2,3,7,8-TCDD	7727830	0.79	y	19:32	1.04	10.00	-1.8	n
Total TCDD	7844641	0.77	y	18:16	1.04	10.00	-1.8	n
37Cl-2,3,7,8-TCDD	16705160	1.00	y	19:32	2.24	10.00	-7.3	n
13C-1,2,3,7,8-PeCDF	86555000	1.60	y	24:21	1.16	100.00	-13.2	n
1,2,3,7,8-PeCDF	50654000	1.57	y	24:23	1.17	50.00	9.4	n
2,3,4,7,8-PeCDF	48153400	1.57	y	25:51	1.11	50.00	7.4	n
Total F2 PeCDF	99588505	1.27	n	22:53	1.14	100.00	8.4	n
Total F1 PeCDF	130650	0.59	n	14:12	1.14	100.00	8.4	n
13C-1,2,3,7,8-PeCDD	56903400	1.58	y	26:37	0.76	100.00	-6.0	n
1,2,3,7,8-PeCDD	28409800	1.58	y	26:40	1.00	50.00	-3.8	n
Total PeCDD	28693632	0.92	n	24:37	1.00	50.00	-3.8	n
13C-1,2,3,7,8,9-HxCDD	63513900	1.26	y	33:01	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	68428600	0.51	y	31:49	1.08	100.00	6.2	n
1,2,3,4,7,8-HxCDF	45182300	1.24	y	31:51	1.32	50.00	6.5	n
1,2,3,6,7,8-HxCDF	52989700	1.25	y	31:58	1.55	50.00	3.9	n
2,3,4,6,7,8-HxCDF	48462100	1.26	y	32:32	1.42	50.00	5.8	n
1,2,3,7,8,9-HxCDF	40688900	1.22	y	33:12	1.19	50.00	-2.5	n
Total HxCDF	187495461	1.08	y	30:40	1.37	200.00	3.5	n
13C-1,2,3,6,7,8-HxCDD	59419100	1.28	y	32:45	0.94	100.00	5.8	n
1,2,3,4,7,8-HxCDD	29052000	1.43	y	32:40	0.98	50.00	8.3	n
1,2,3,6,7,8-HxCDD	36551700	1.18	y	32:45	1.23	50.00	3.4	n
1,2,3,7,8,9-HxCDD	34782700	1.24	y	33:02	1.17	50.00	1.1	n
Total HxCDD	100685025	1.05	y	32:06	1.13	150.00	4.0	n
13C-1,2,3,4,6,7,8-HpCDF	60266700	0.44	y	34:32	0.95	100.00	0.4	n
1,2,3,4,6,7,8-HpCDF	41895000	0.99	y	34:33	1.39	50.00	7.0	n
1,2,3,4,7,8,9-HpCDF	32846000	0.98	y	35:39	1.09	50.00	-1.0	n
Total HpCDF	75371710	0.99	y	34:33	1.24	100.00	3.3	n
13C-1,2,3,4,6,7,8-HpCDD	51070800	1.09	y	35:20	0.80	100.00	1.4	n
1,2,3,4,6,7,8-HpCDD	27699000	1.04	y	35:21	1.08	50.00	2.7	n
Total HpCDD	28096841	1.04	y	34:48	1.08	50.00	2.7	n
13C-OCDD	68766600	0.89	y	37:48	0.54	200.00	-7.0	n
OCDF	53536300	0.91	y	37:55	1.56	100.00	0.0	n
OCDD	42330200	0.91	y	37:49	1.23	100.00	3.2	n

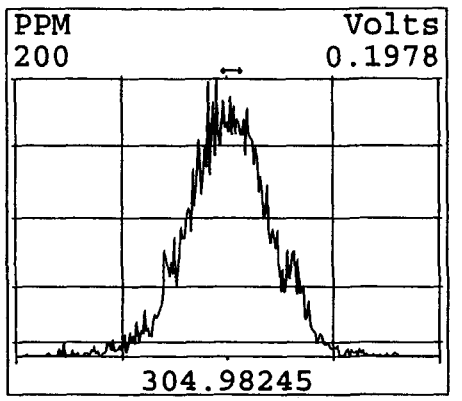
Run text: ST0217A File text: ST0217A :CS3 09DXN425
Run #17 Filename 17FE104D5 S: 14 I: 1
Acquired: 17-FEB-10 19:06:14 Processed: 17-FEB-10 19:47:10
Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D58290

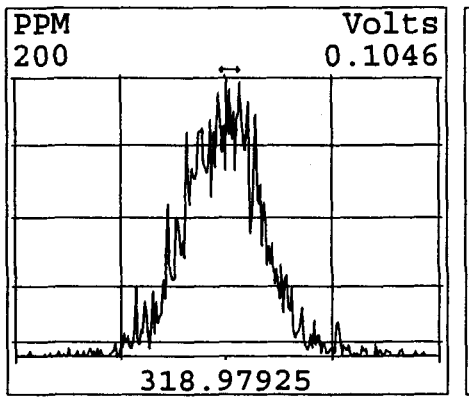
Name	Resp	RA		RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	140635400	0.81	y	19:17	-	100.00	-	n
13C-2,3,7,8-TCDF	247237000	0.80	y	18:45	1.76	100.00	11.9	n
2,3,7,8-TCDF	26291100	0.81	y	18:46	1.06	10.00	1.1	n
Total TCDF	26645245	0.73	y	16:57	1.06	10.00	1.1	n
13C-2,3,7,8-TCDD	141696100	0.79	y	19:31	1.01	100.00	0.7	n
2,3,7,8-TCDD	14058910	0.78	y	19:33	0.99	10.00	-5.9	n
Total TCDD	14171618	0.74	y	15:58	0.99	10.00	-5.9	n
37Cl-2,3,7,8-TCDD	32386200	1.00	y	19:33	2.30	10.00	-4.7	n
13C-1,2,3,7,8-PeCDF	157712200	1.59	y	24:21	1.12	100.00	-16.1	n
1,2,3,7,8-PeCDF	90387800	1.57	y	24:23	1.15	50.00	7.2	n
2,3,4,7,8-PeCDF	84212300	1.57	y	25:51	1.07	50.00	3.0	n
Total F2 PeCDF	176059145	1.26	n	22:53	1.11	100.00	5.1	n
Total F1 PeCDF	33613	0.14	n	16:30	1.11	100.00	5.1	n
13C-1,2,3,7,8-PeCDD	92746600	1.58	y	26:38	0.66	100.00	-18.8	n
1,2,3,7,8-PeCDD	45033000	1.56	y	26:39	0.97	50.00	-6.4	n
Total PeCDD	45070495	1.74	y	24:20	0.97	50.00	-6.4	n
13C-1,2,3,7,8,9-HxCDD	90279800	1.31	y	33:02	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	103495100	0.54	y	31:49	1.15	100.00	13.0	n
1,2,3,4,7,8-HxCDF	67080100	1.23	y	31:50	1.30	50.00	4.6	n
1,2,3,6,7,8-HxCDF	78962300	1.25	y	31:57	1.53	50.00	2.4	n
2,3,4,6,7,8-HxCDF	69531800	1.30	y	32:32	1.34	50.00	0.3	n
1,2,3,7,8,9-HxCDF	58298800	1.25	y	33:13	1.13	50.00	-7.7	n
Total HxCDF	273980004	0.97	n	30:40	1.32	200.00	0.1	n
13C-1,2,3,6,7,8-HxCDD	92589700	1.30	y	32:45	1.03	100.00	16.0	n
1,2,3,4,7,8-HxCDD	36727800	1.26	y	32:40	0.79	50.00	-12.1	n
1,2,3,6,7,8-HxCDD	54970200	1.29	y	32:46	1.19	50.00	-0.2	n
1,2,3,7,8,9-HxCDD	47947300	1.26	y	33:02	1.04	50.00	-10.5	n
Total HxCDD	139706046	1.15	y	32:08	1.01	150.00	-7.2	n
13C-1,2,3,4,6,7,8-HpCDF	88184000	0.45	y	34:32	0.98	100.00	3.4	n
1,2,3,4,6,7,8-HpCDF	60163000	0.97	y	34:33	1.36	50.00	5.0	n
1,2,3,4,7,8,9-HpCDF	47218900	0.97	y	35:39	1.07	50.00	-2.8	n
Total HpCDF	109523149	0.97	y	34:33	1.22	100.00	1.5	n
13C-1,2,3,4,6,7,8-HpCDD	70250500	1.08	y	35:20	0.78	100.00	-1.9	n
1,2,3,4,6,7,8-HpCDD	38219200	1.06	y	35:21	1.09	50.00	3.0	n
Total HpCDD	38925162	1.03	y	34:48	1.09	50.00	3.0	n
13C-OCDD	85469900	0.89	y	37:49	0.47	200.00	-18.7	n
OCDF	69471100	0.91	y	37:55	1.63	100.00	4.4	n
OCDD	52265000	0.91	y	37:49	1.22	100.00	2.5	n

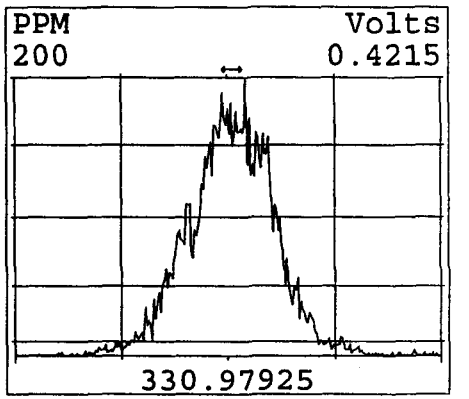
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
17FE104D5	1	CP0217	DB-5 CPSM 3732-05				1.00000	
17FE104D5	2	ST0217	CS3 09DXN425				1.00000	
17FE104D5	3	SB0217	Solvent Blank C-14				1.00000	
17FE104D5	4	LVLQM-1-AAB	G0B120000-244 (517-2MB)	20	8290A/WATER	14	1.00000	L
17FE104D5	5	LVLRV-1-ADB	G0B120000-251 (541-1MBX)	20	8290/LEACHATE		0.98770	L
17FE104D5	6	LVLQM-1-ACC	G0B120000-244 (517-2LCS)	20	8290A/WATER		1.00000	L
17FE104D5	7	LT76V-1-AA	G0B040517-2	20	8290A/WATER		1.05430	L
17FE104D5	8	LT76X-1-AA	G0B040517-4	20	8290A/WATER		1.05160	L
17FE104D5	9	LT76X-1-ACS	G0B040517-4S	20	8290A/WATER		1.05200	L
17FE104D5	10	LT76X-1-ADD	G0B040517-4D	20	8290A/WATER		1.05440	L
17FE104D5	11	LT769-1-AA	G0B040517-10	20	8290A/WATER		1.05550	L
17FE104D5	12	LT77C-1-AA	G0B040517-12	20	8290A/WATER		1.02200	L
17FE104D5	13	SB0217A	Solvent Blank C-14				1.00000	
17FE104D5	14	ST0217A	CS3 09DXN425				1.00000	
17FE104D5	15						1.00000	
17FE104D5	16						1.00000	
17FE104D5	17		KSS 02-17-10				1.00000	
17FE104D5	18						1.00000	
17FE104D5	19						1.00000	

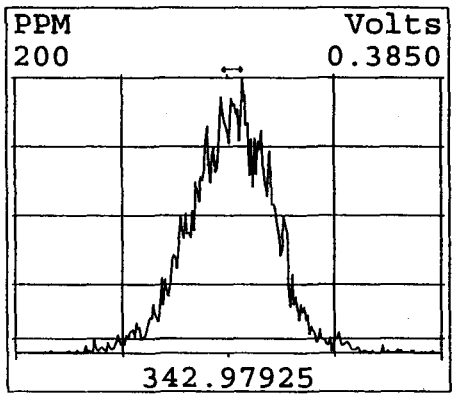
Peak Locate Examination:17-FEB-2010:09:30 File:17FE104D5
Experiment:DIOXIN Function:1 Reference:PFK

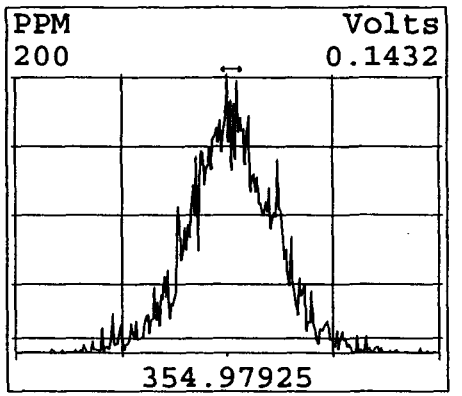


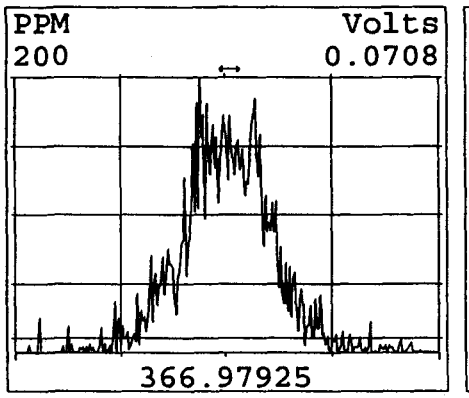


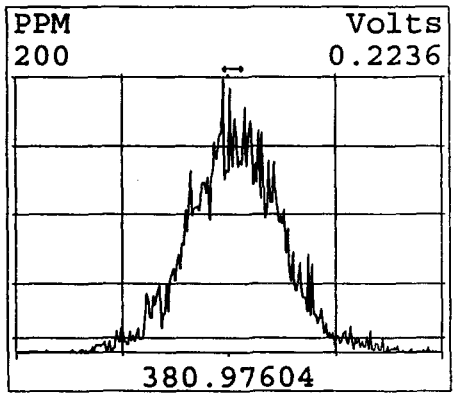


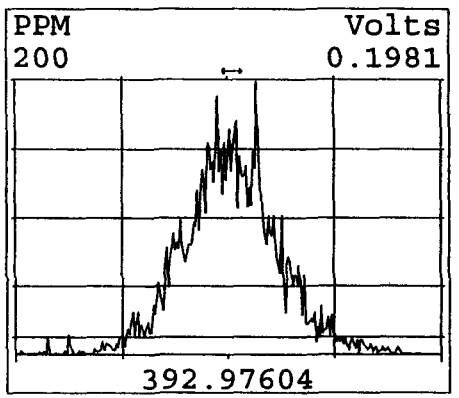


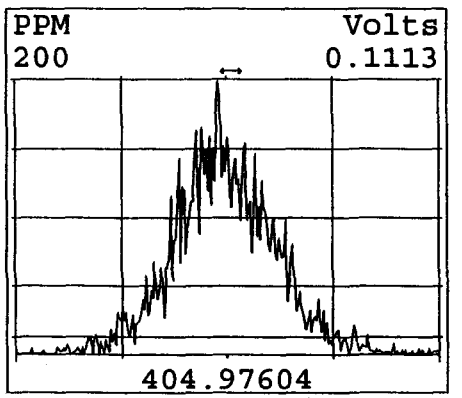


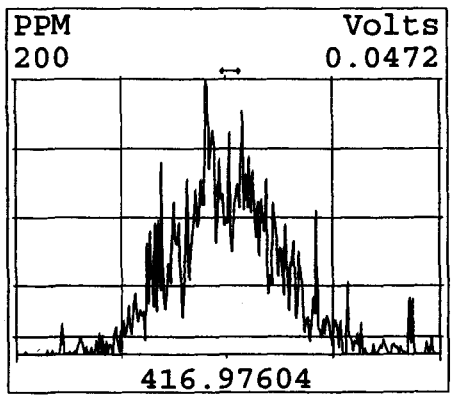




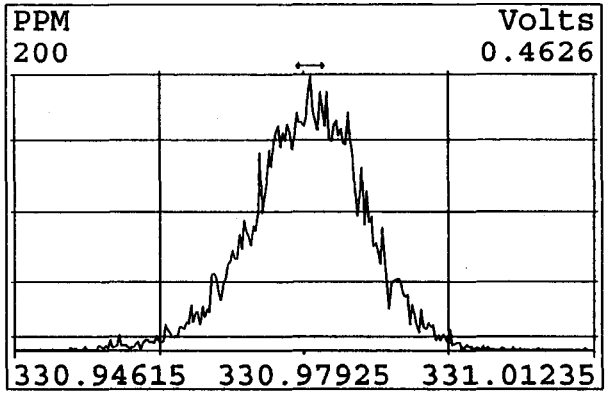


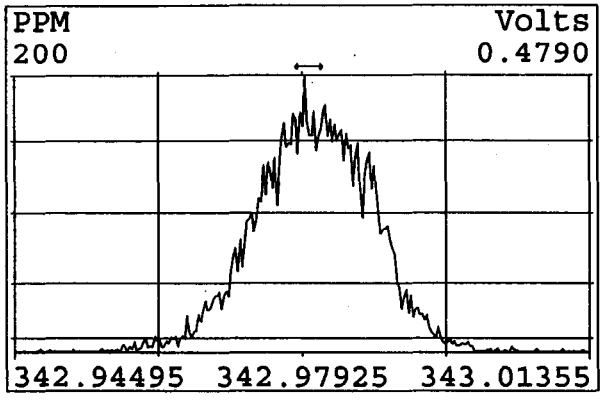


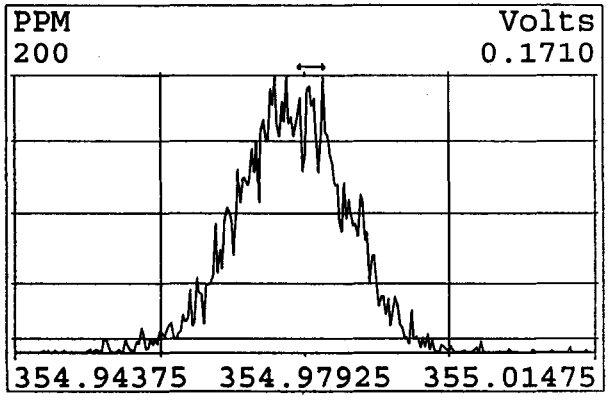


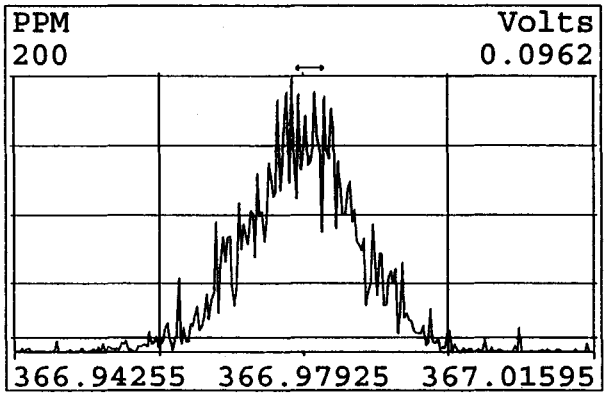


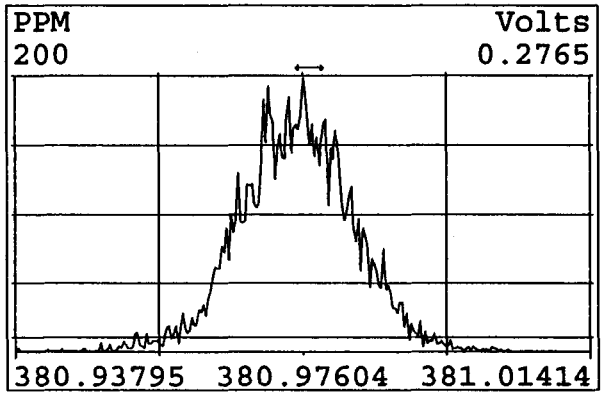
Peak Locate Examination:17-FEB-2010:09:31 File:17FE104D5
Experiment:DIOXIN Function:2 Reference:PFK

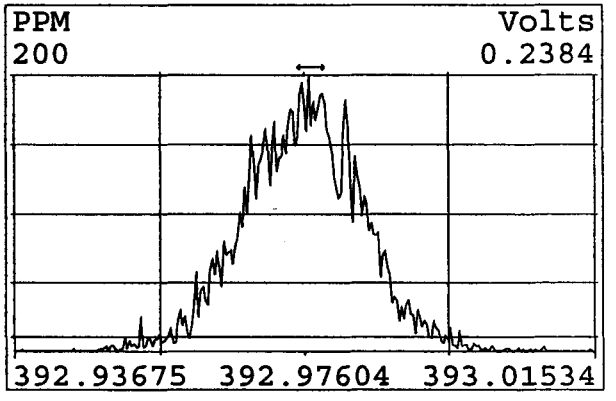


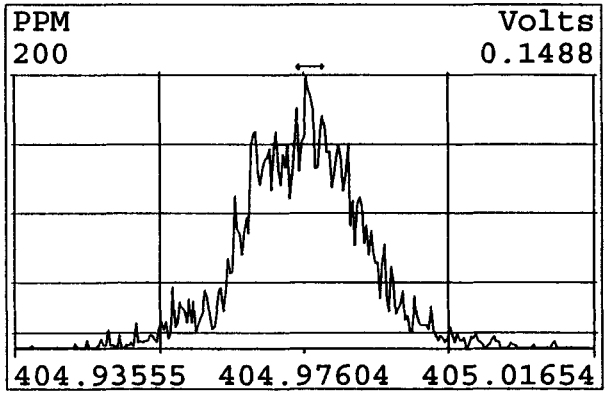


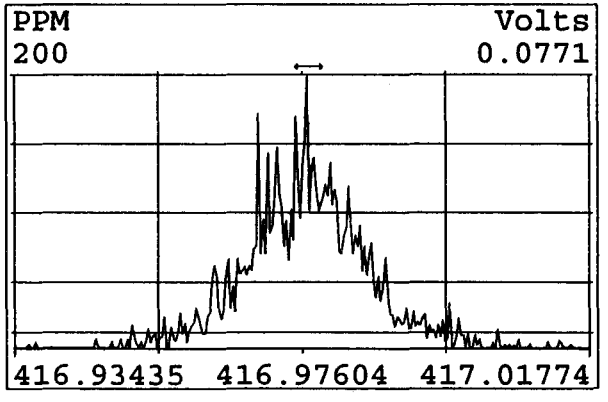




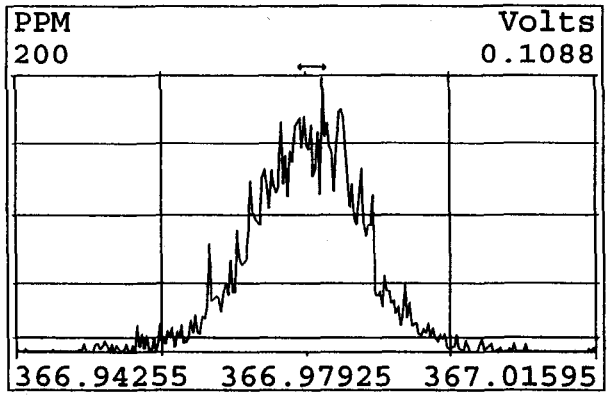


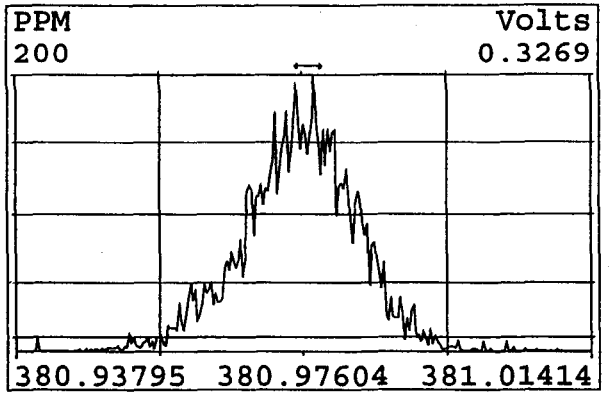


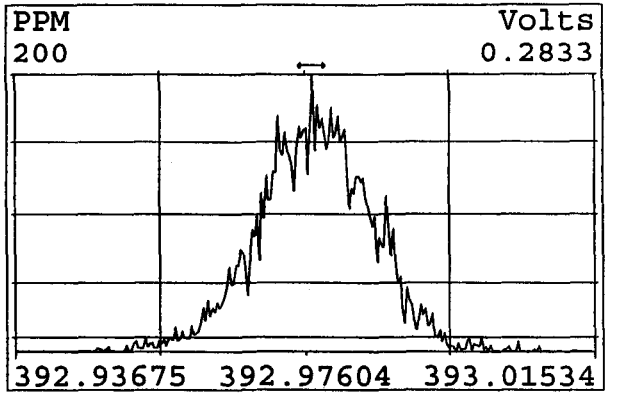


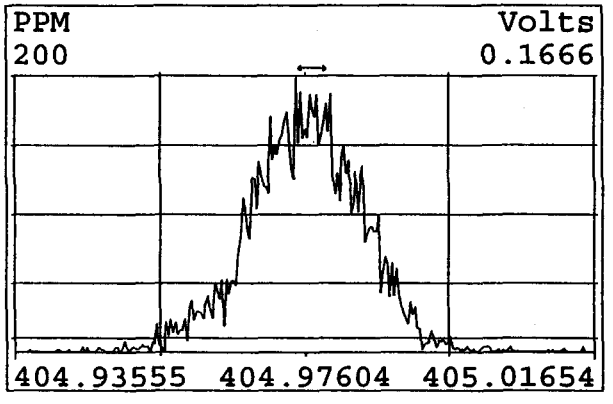


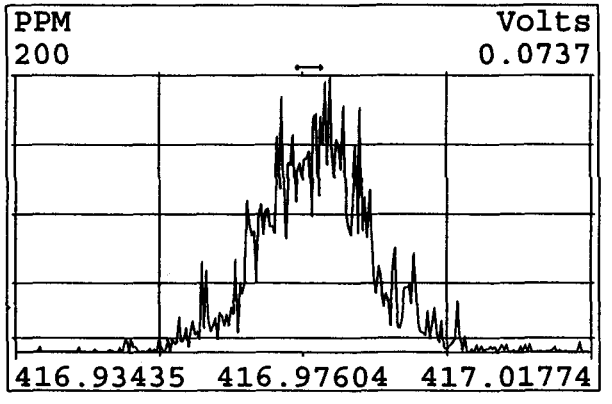
Peak Locate Examination:17-FEB-2010:09:32 File:17FE104D5
Experiment:DIOXIN Function:3 Reference:PFK

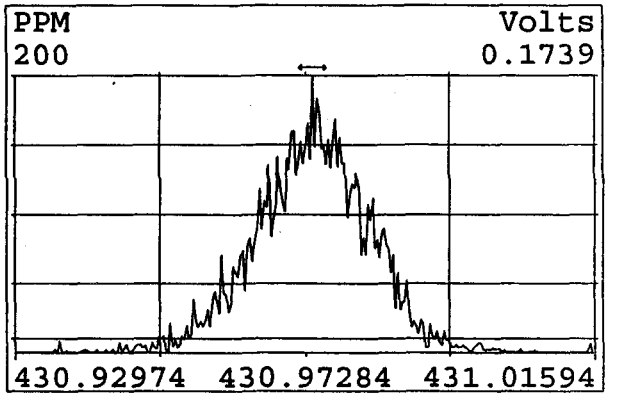


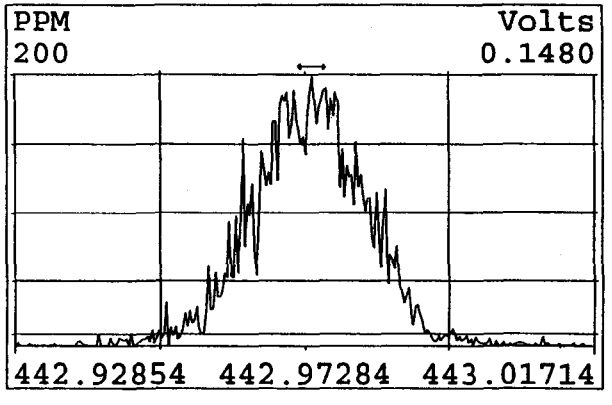


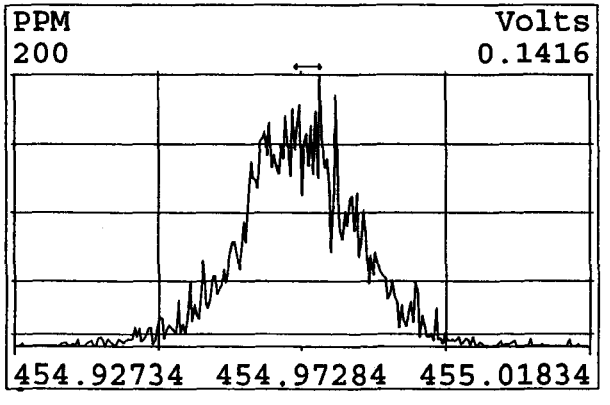




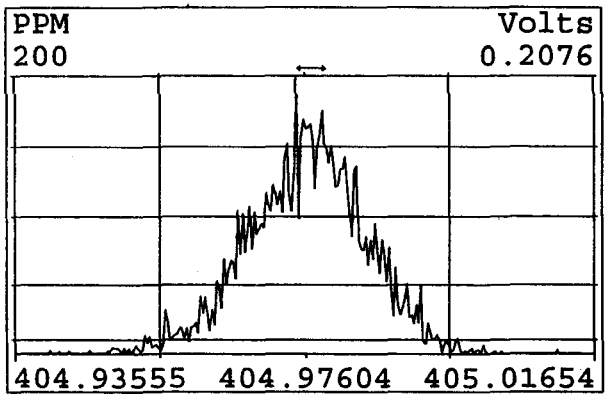


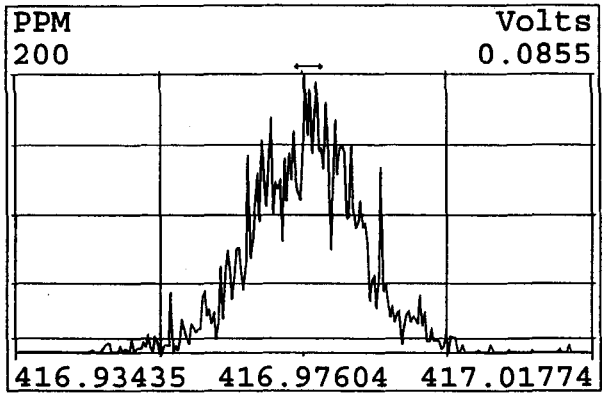


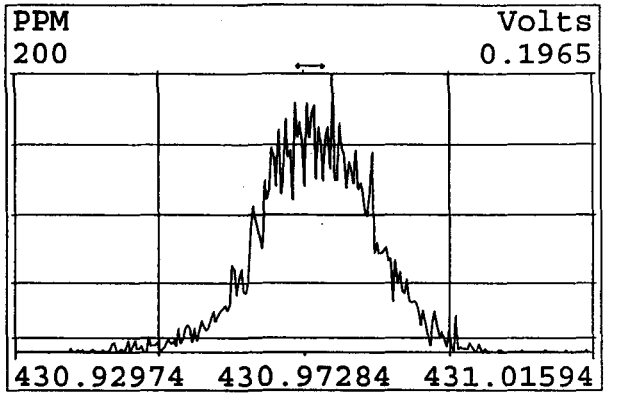


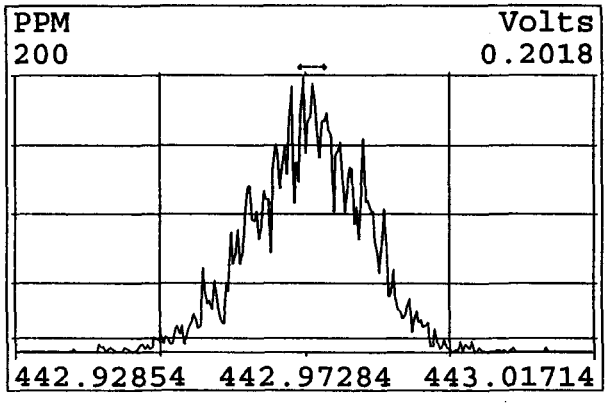


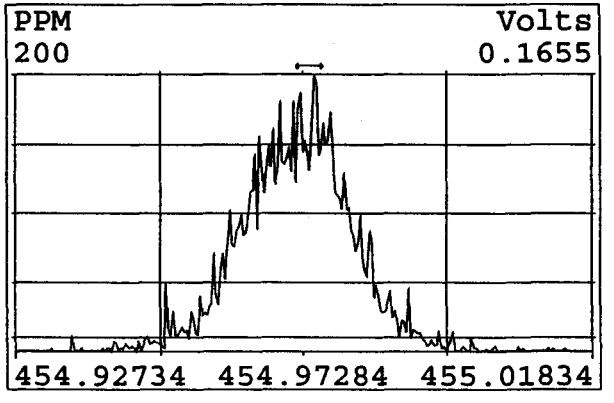
Peak Locate Examination:17-FEB-2010:09:33 File:17FE104D5
Experiment:DIOXIN Function:4 Reference:PFK

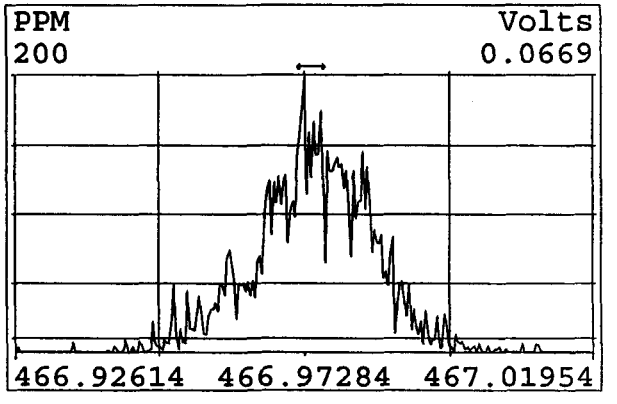


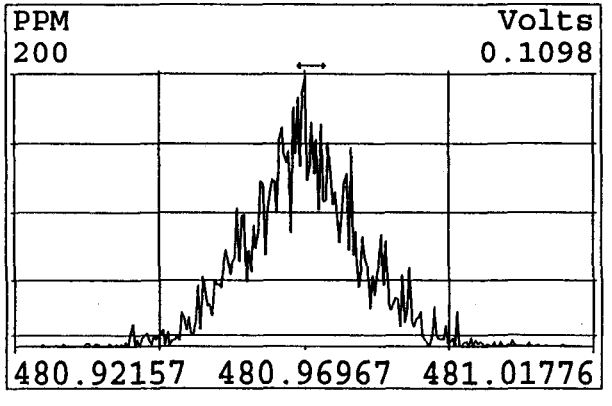




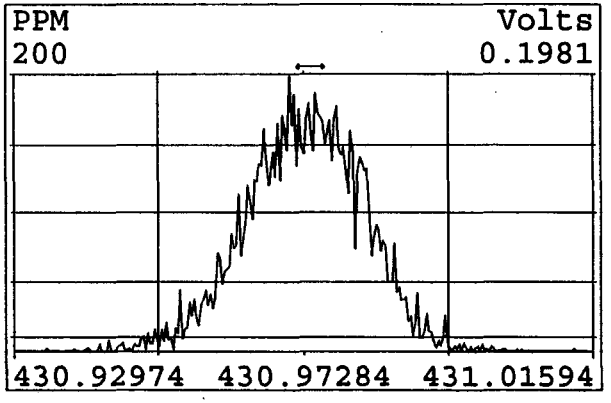


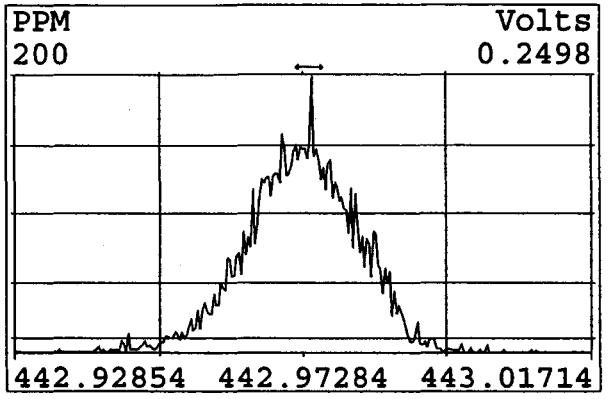


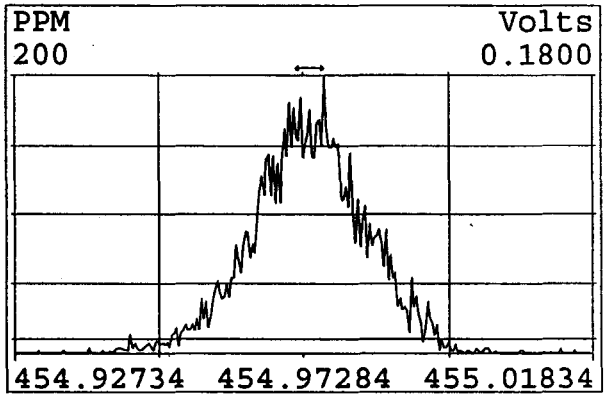


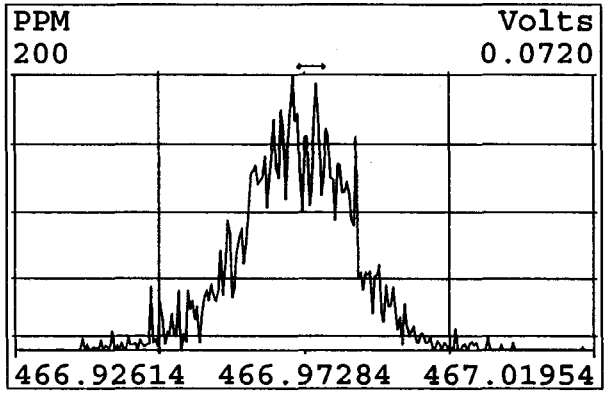


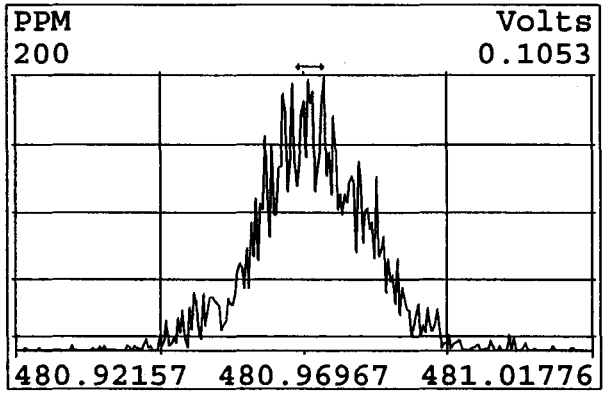
Peak Locate Examination:17-FEB-2010:09:33 File:17FE104D5
Experiment:DIOXIN Function:5 Reference:PFK

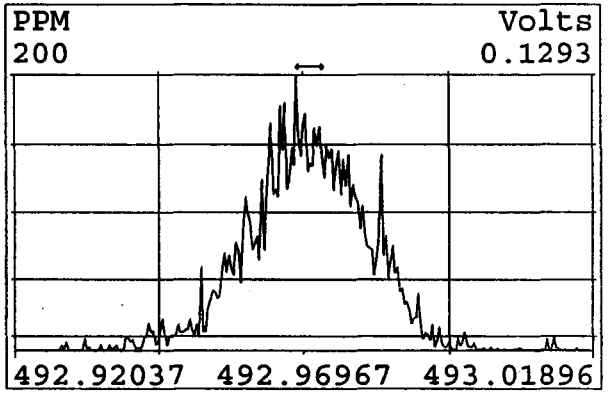


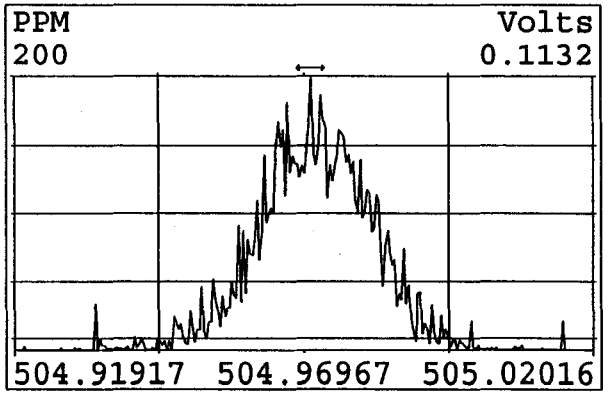


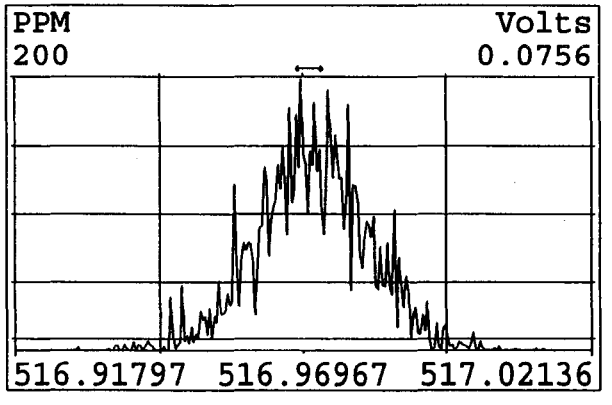




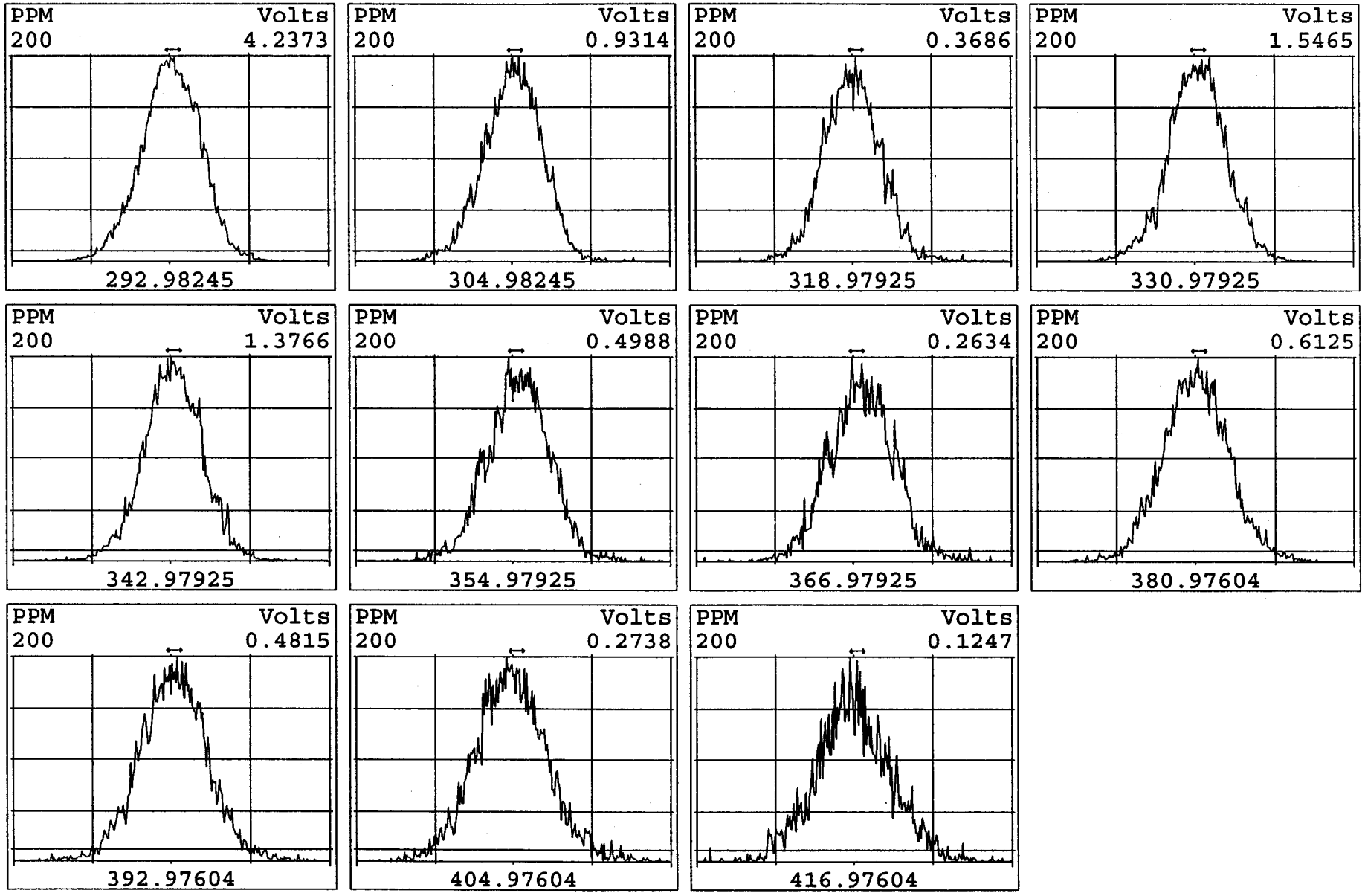




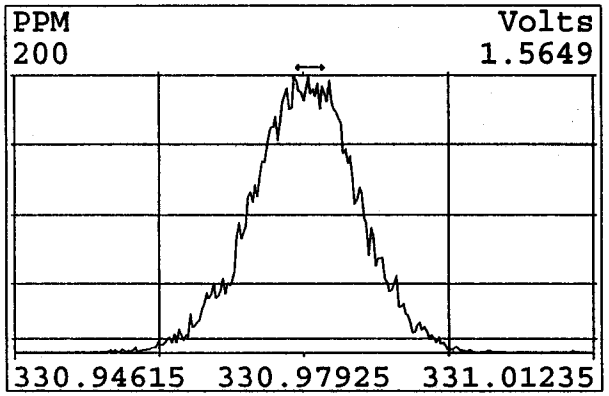


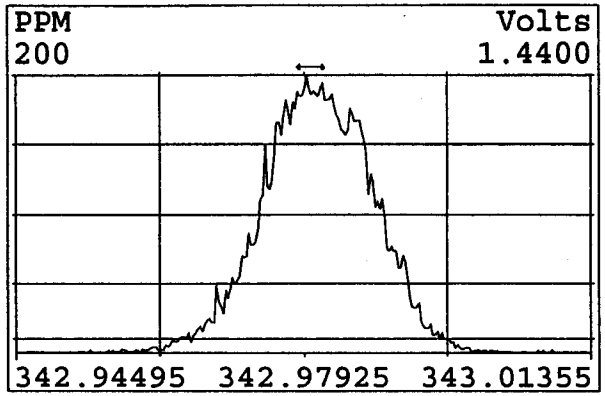


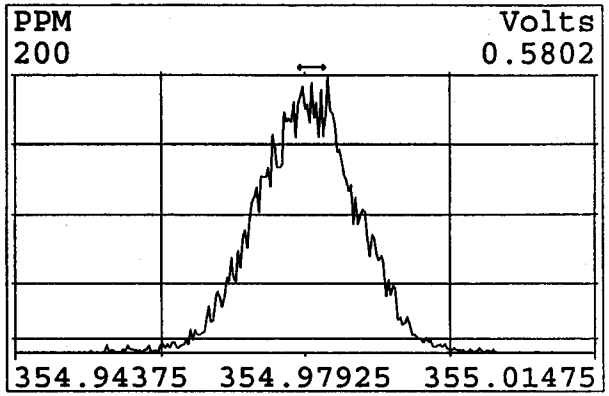
Peak Locate Examination:17-FEB-2010:20:01 File:RESCHK17FE104D5
Experiment:DIOXIN Function:1 Reference:PFK

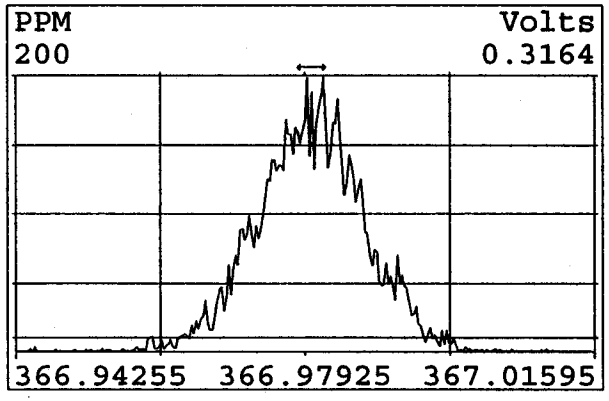


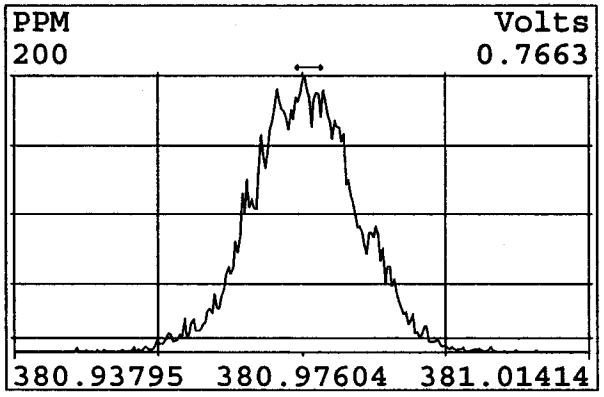
Peak Locate Examination:17-FEB-2010:20:03 File:RESCHK17FE104D5
Experiment:DIOXIN Function:2 Reference:PFK

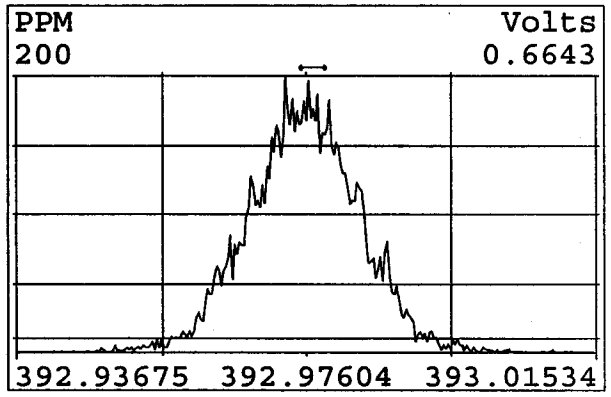


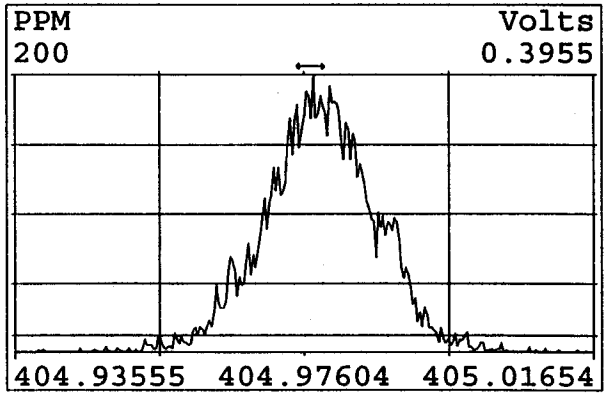


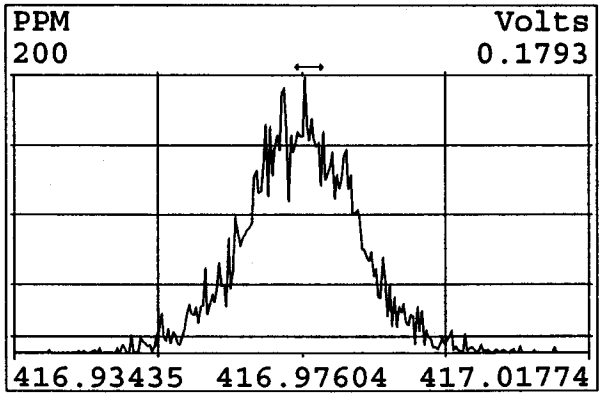




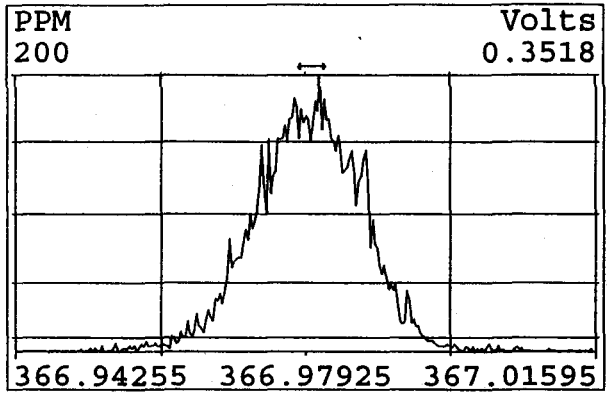


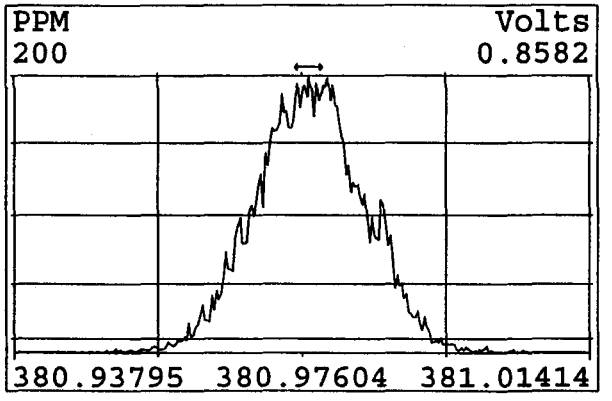


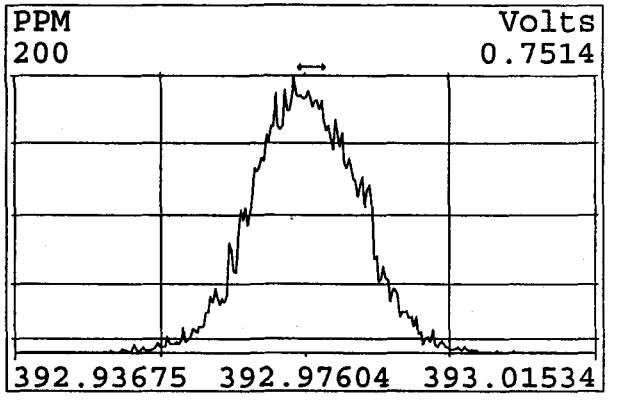


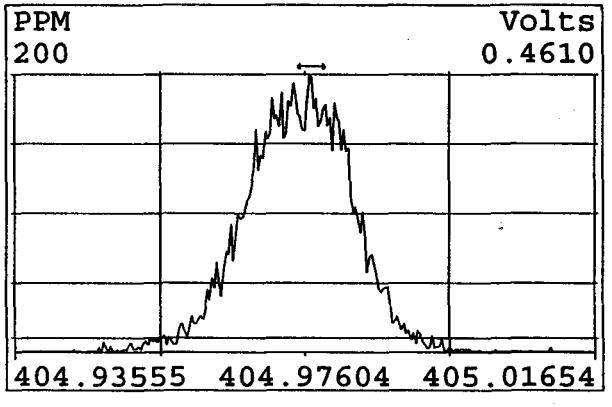


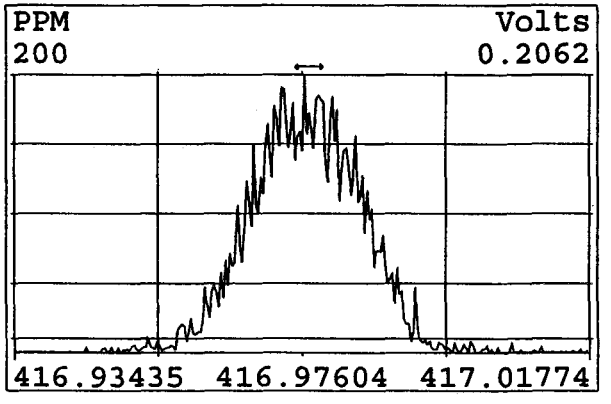
Peak Locate Examination:17-FEB-2010:20:04 File:RESCHK17FE104D5
Experiment:DIOXIN Function:3 Reference:PFK

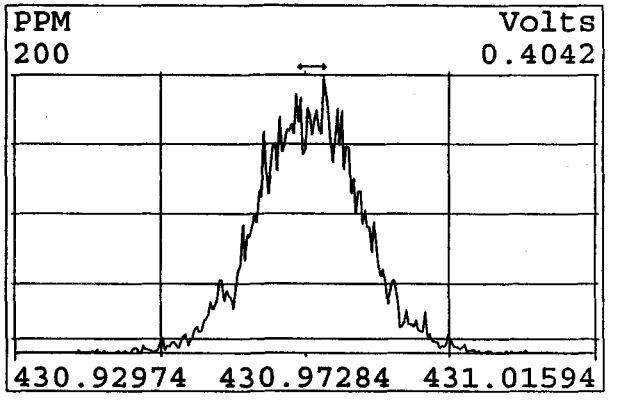


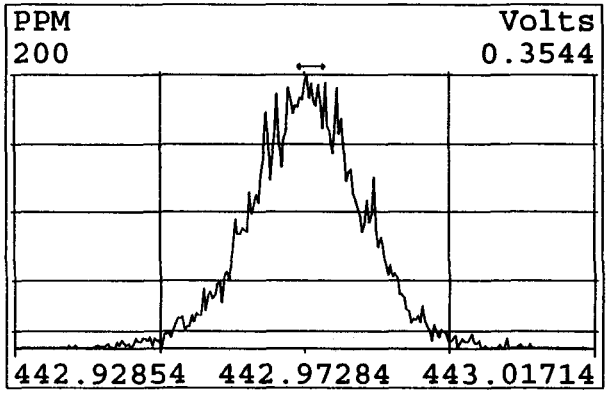


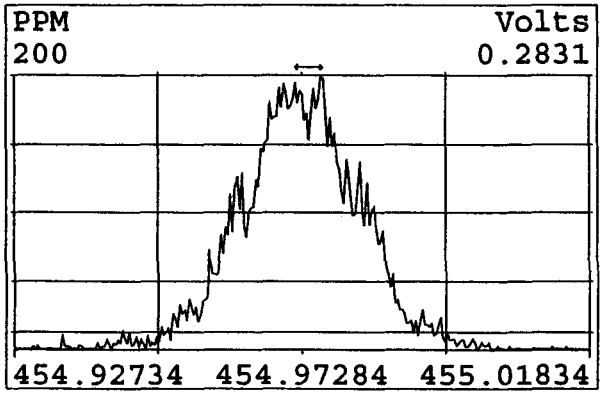




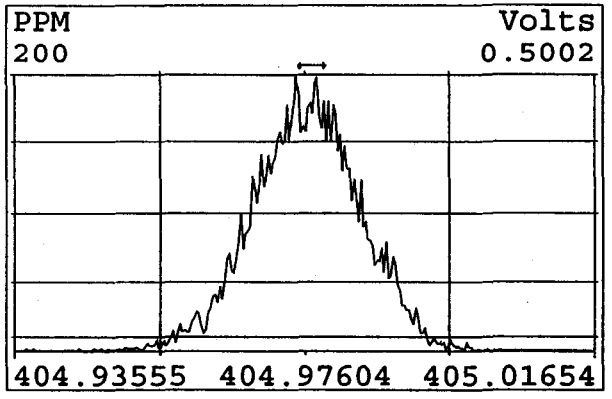


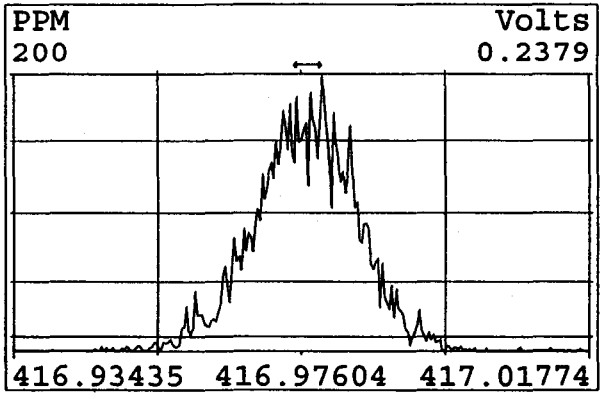


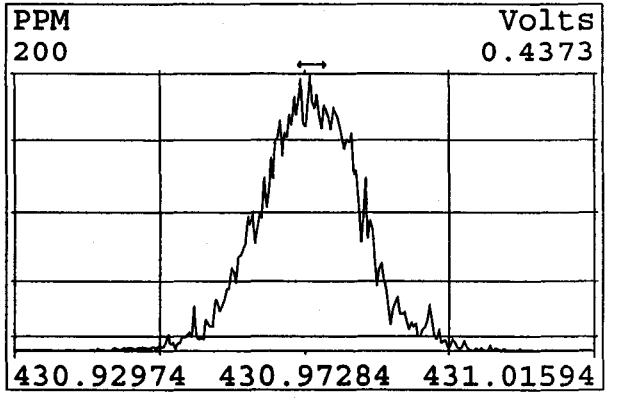


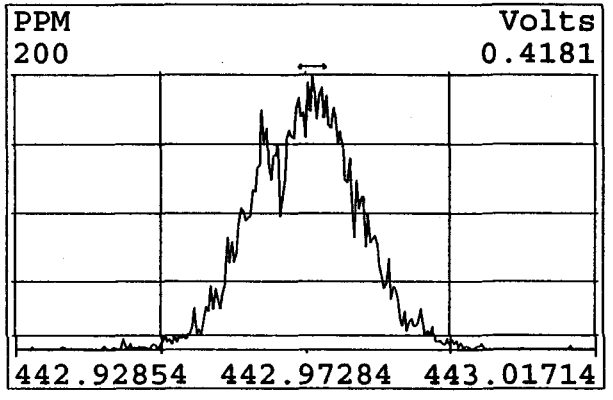


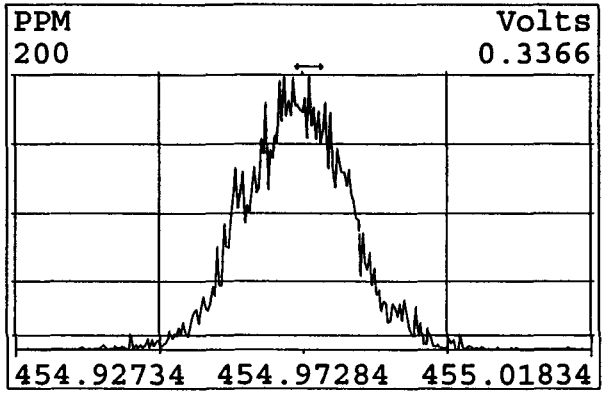
Peak Locate Examination:17-FEB-2010:20:05 File:RESCHK17FE104D5
Experiment:DIOXIN Function:4 Reference:PFK

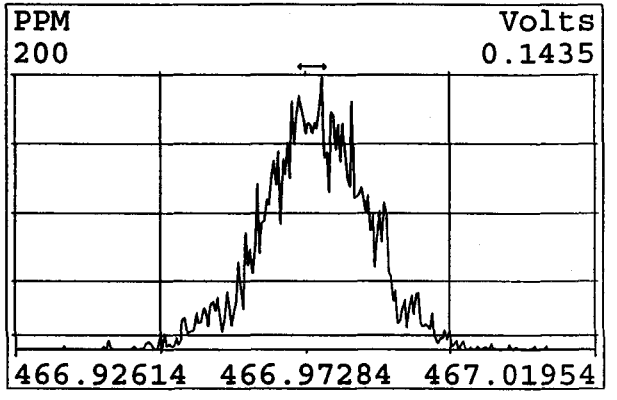


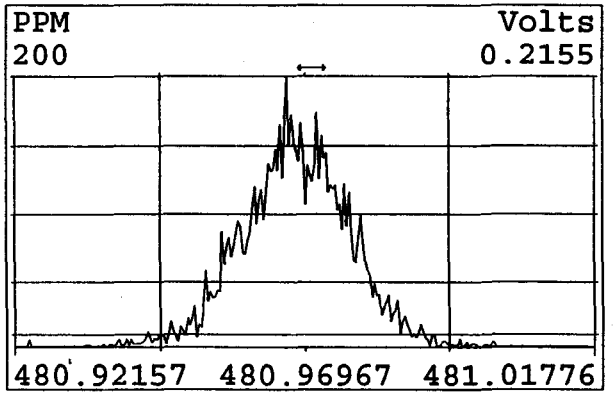




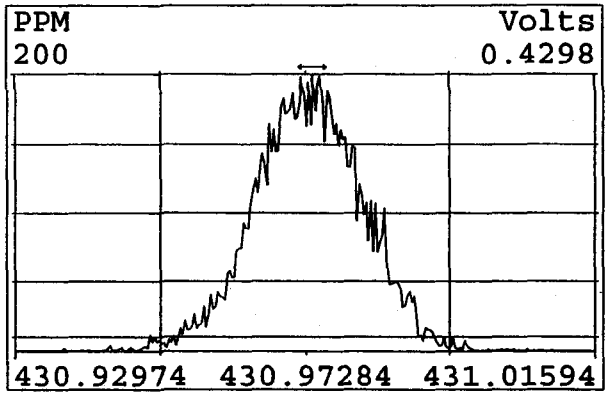


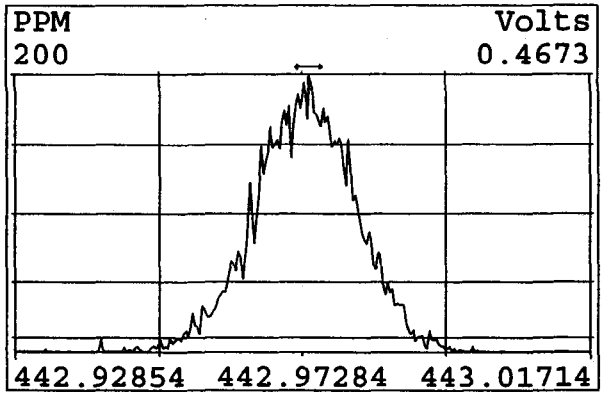


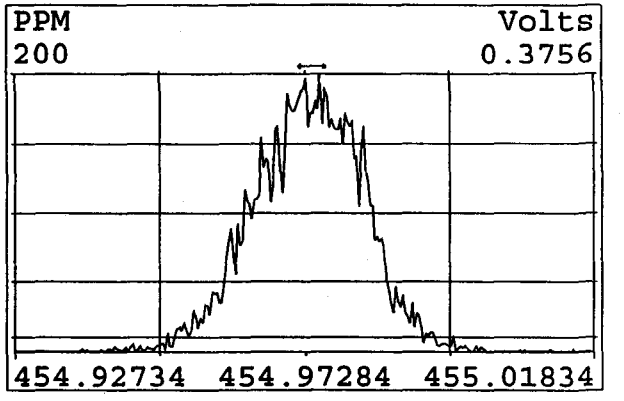


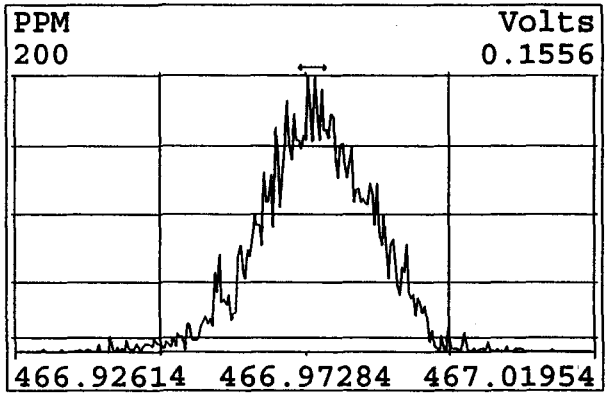


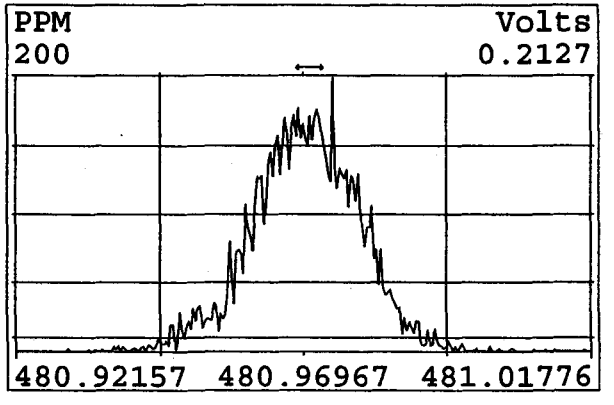
Peak Locate Examination:17-FEB-2010:20:06 File:RESCHK17FE104D5
Experiment:DIOXIN Function:5 Reference:PFK

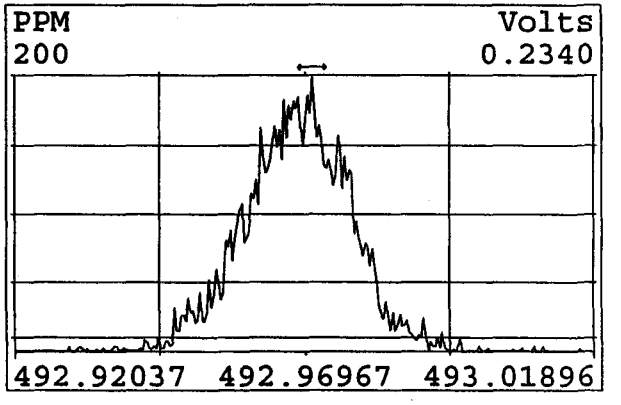


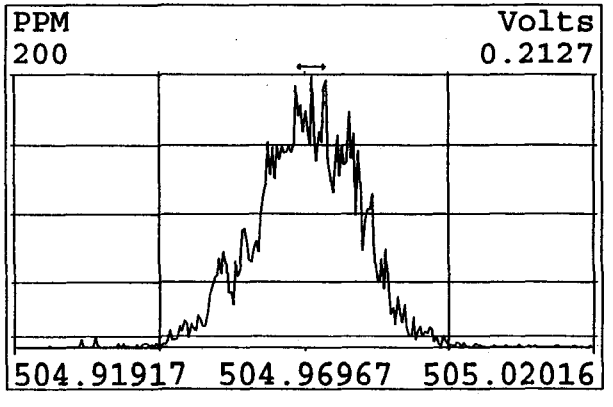


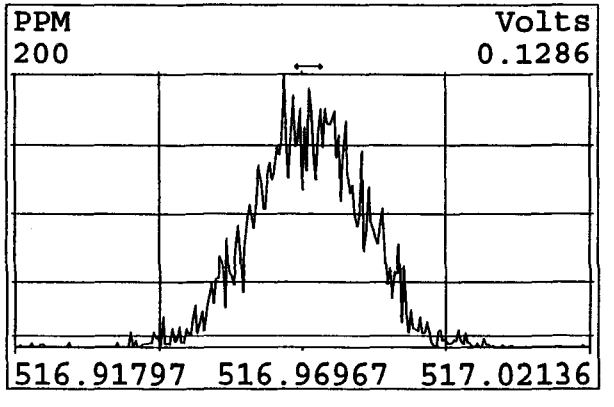




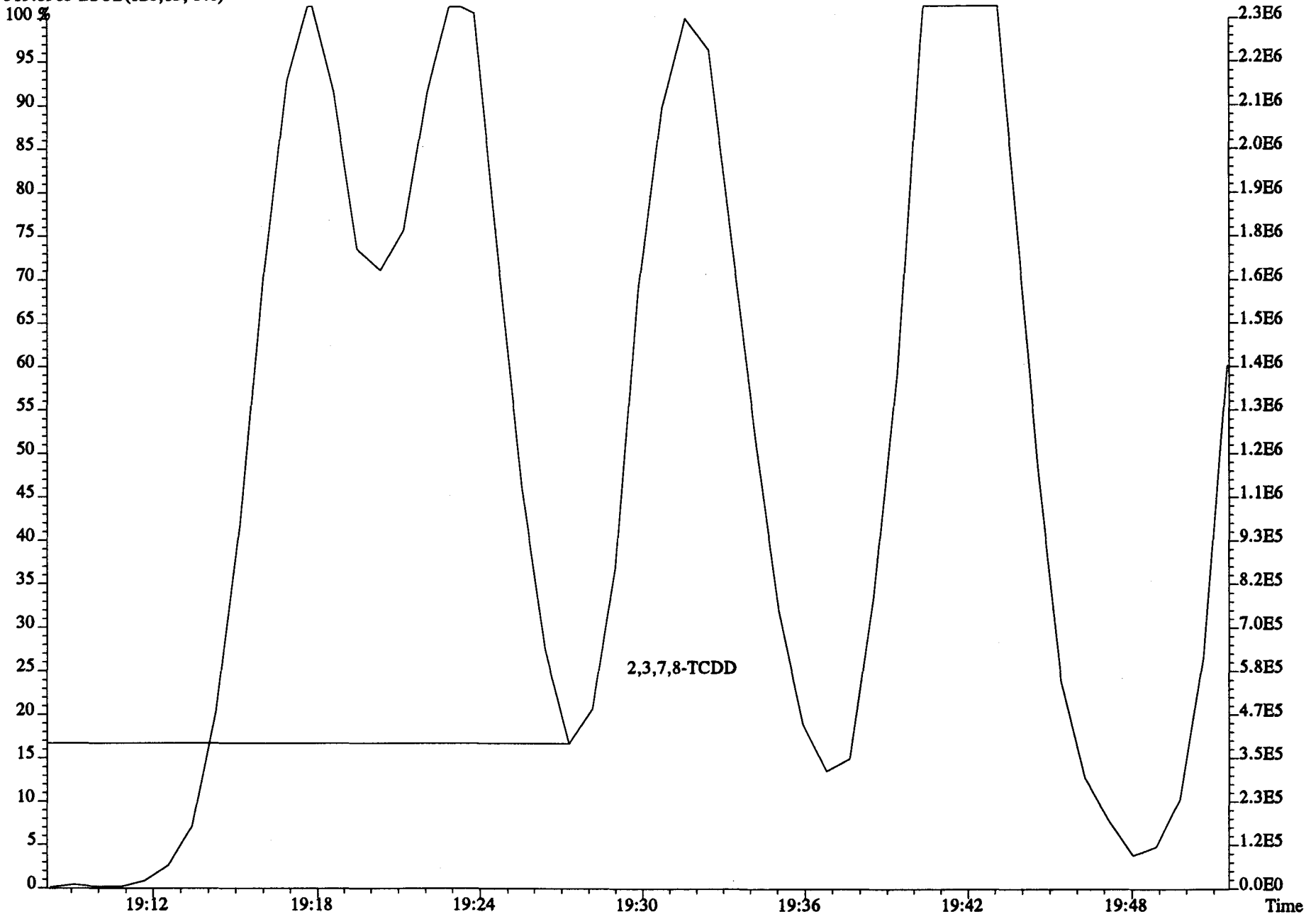








File:17FE104D5 #1-578 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN
319.8965 BSUB(128,15,-3.0)



TestAmerica West Sacramento (916) 373 - 5600

Run: 04FE104D5 Analyte: 8290 Cal: 82900204104D5

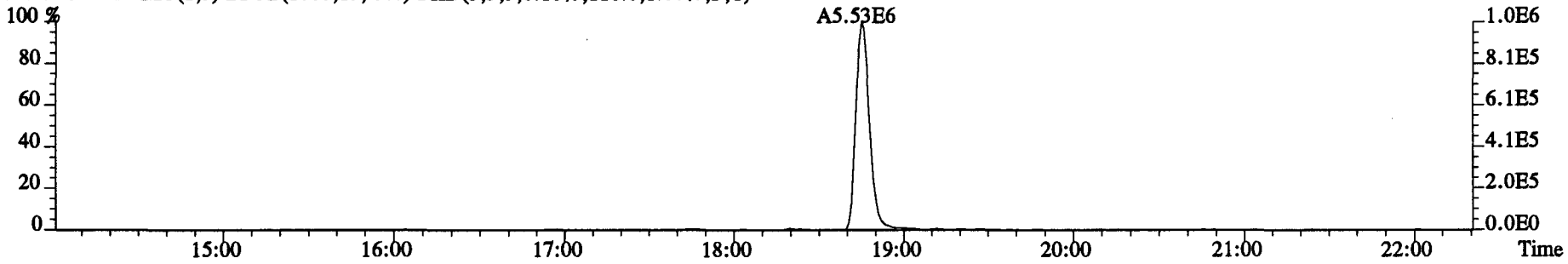
ST0204 :CS-3 09DXN425 ST0204A :CS-1 09DXN422 ST0204B :CS-2 09DXN423
ST0204C :CS-5 09DXN456 ST0204D :CS-4 09DXN426

Name	Mean	S. D.	%RSD	04FE104D5 S1 RRF1	04FE104D5 S2 RRF2	04FE104D5 S3 RRF3	04FE104D5 S4 RRF4	04FE104D5 S5 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.570	0.092	5.86 %	1.67	1.59	1.55	1.61	1.43
2,3,7,8-TCDF	1.052	0.051	4.86 %	1.09	0.98	1.02	1.09	1.08
Total TCDF	1.052	0.051	4.86 %	1.09	0.98	1.02	1.09	1.08
13C-2,3,7,8-TCDD	1.001	0.057	5.65 %	1.03	0.97	0.95	1.08	0.96
2,3,7,8-TCDD	1.054	0.050	4.70 %	1.08	1.02	0.99	1.11	1.08
Total TCDD	1.054	0.050	4.70 %	1.08	1.02	0.99	1.11	1.08
37Cl-2,3,7,8-TCDD	2.416	0.164	6.77 %	2.42	2.35	2.25	2.69	2.36
13C-1,2,3,7,8-PeCDF	1.337	0.127	9.47 %	1.38	1.26	1.23	1.54	1.27
1,2,3,7,8-PeCDF	1.070	0.057	5.34 %	1.12	0.99	1.04	1.09	1.12
2,3,4,7,8-PeCDF	1.036	0.054	5.21 %	1.08	0.97	0.99	1.06	1.09
Total F2 PeCDF	1.053	0.055	5.24 %	1.10	0.98	1.01	1.07	1.10
Total F1 PeCDF	1.053	0.055	5.24 %	1.10	0.98	1.01	1.07	1.10
13C-1,2,3,7,8-PeCDD	0.812	0.084	10.4 %	0.86	0.77	0.74	0.94	0.76
1,2,3,7,8-PeCDD	1.038	0.067	6.47 %	1.03	0.95	1.00	1.09	1.11
Total PeCDD	1.038	0.067	6.47 %	1.03	0.95	1.00	1.09	1.11
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.015	0.057	5.60 %	1.03	1.03	0.98	1.09	0.94
1,2,3,4,7,8-HxCDF	1.239	0.064	5.14 %	1.28	1.15	1.20	1.28	1.30
1,2,3,6,7,8-HxCDF	1.490	0.054	3.63 %	1.52	1.43	1.48	1.46	1.57
2,3,4,6,7,8-HxCDF	1.339	0.065	4.85 %	1.37	1.25	1.32	1.32	1.43
1,2,3,7,8,9-HxCDF	1.220	0.092	7.58 %	1.24	1.08	1.19	1.25	1.34
Total HxCDF	1.322	0.066	5.00 %	1.35	1.23	1.30	1.33	1.41
13C-1,2,3,6,7,8-HxCDD	0.884	0.041	4.68 %	0.88	0.88	0.89	0.95	0.83
1,2,3,4,7,8-HxCDD	0.903	0.090	10.0 %	1.00	0.81	0.81	0.92	0.98

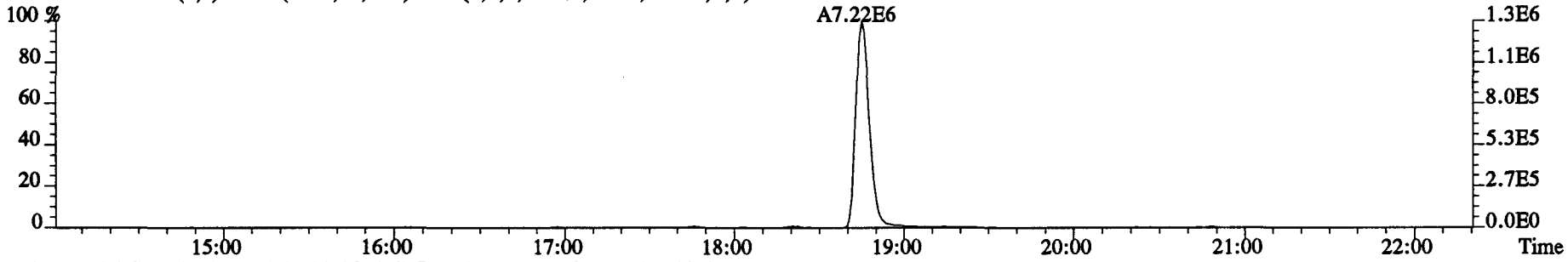
1,2,3,6,7,8-HxCDD	1.190	0.048	4.00 %	1.17	1.17	1.14	1.20	1.26
1,2,3,7,8,9-HxCDD	1.158	0.110	9.51 %	1.22	1.01	1.08	1.20	1.28
Total HxCDD	1.083	0.078	7.16 %	1.13	1.00	1.01	1.11	1.18
13C-1,2,3,4,6,7,8-HpCDF	0.945	0.040	4.25 %	0.97	0.95	0.92	1.00	0.89
1,2,3,4,6,7,8-HpCDF	1.299	0.053	4.10 %	1.35	1.24	1.25	1.31	1.35
1,2,3,4,7,8,9-HpCDF	1.102	0.071	6.42 %	1.17	1.01	1.04	1.13	1.15
Total HpCDF	1.200	0.062	5.15 %	1.26	1.12	1.15	1.22	1.25
13C-1,2,3,4,6,7,8-HpCDD	0.793	0.040	5.08 %	0.82	0.79	0.76	0.85	0.75
1,2,3,4,6,7,8-HpCDD	1.056	0.061	5.82 %	1.08	0.96	1.03	1.09	1.12
Total HpCDD	1.056	0.061	5.82 %	1.08	0.96	1.03	1.09	1.12
13C-OCDD	0.582	0.046	7.84 %	0.61	0.57	0.54	0.65	0.54
OCDF	1.558	0.101	6.46 %	1.56	1.43	1.49	1.63	1.68
OCDD	1.193	0.056	4.70 %	1.21	1.11	1.16	1.22	1.26

File:17FE104D5 #1-578 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN

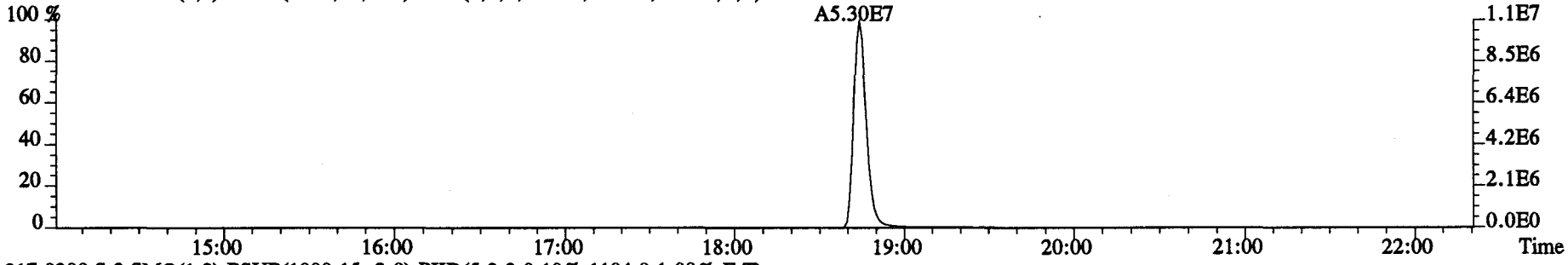
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,116.0,1.00%,F,T)



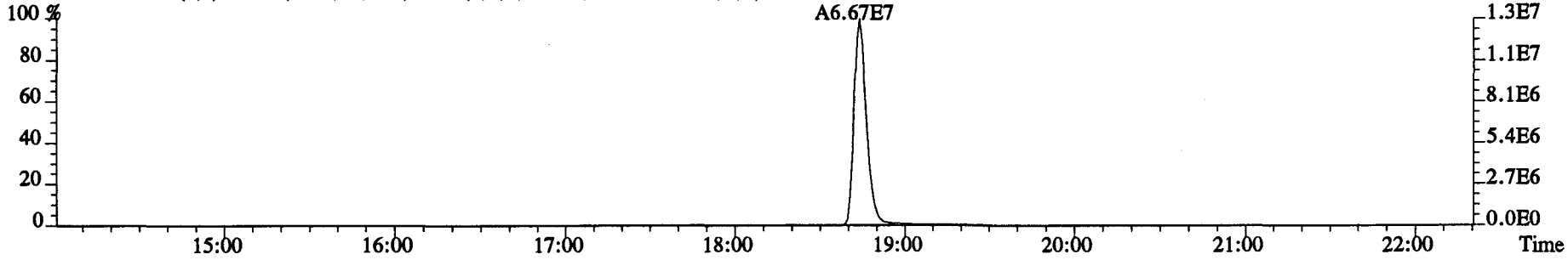
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,616.0,1.00%,F,T)



315.9419 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2120.0,1.00%,F,T)

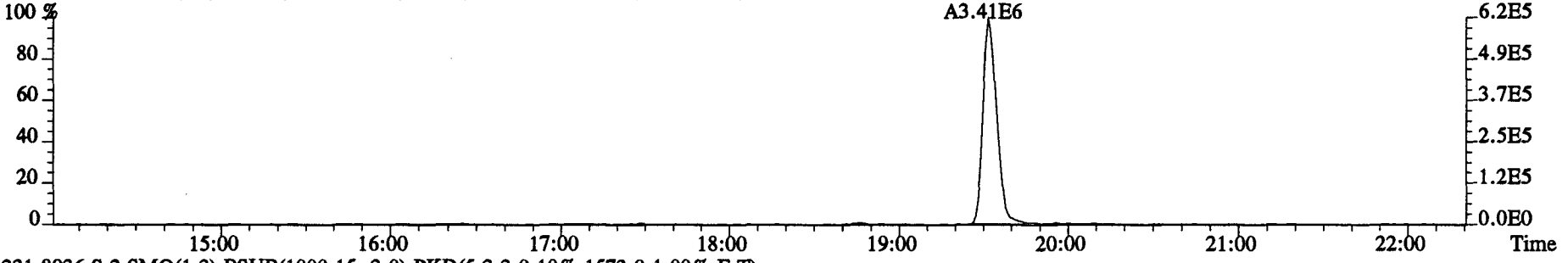


317.9389 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1104.0,1.00%,F,T)

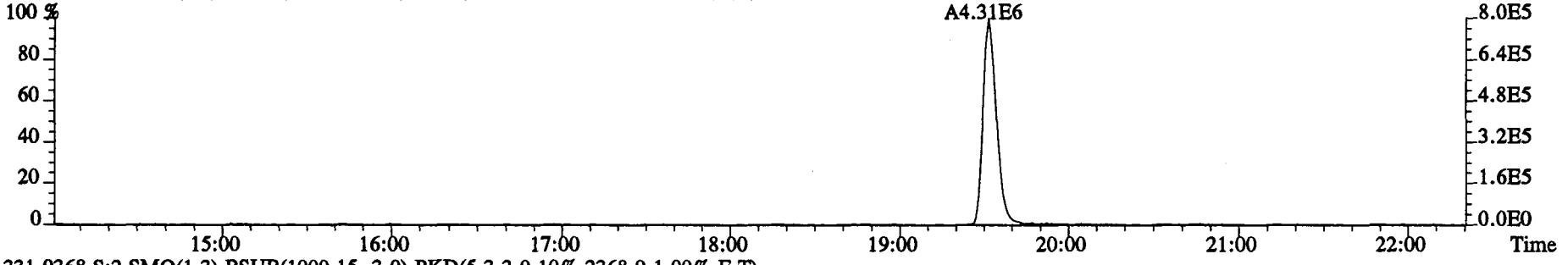


File:17FE104D5 #1-578 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN

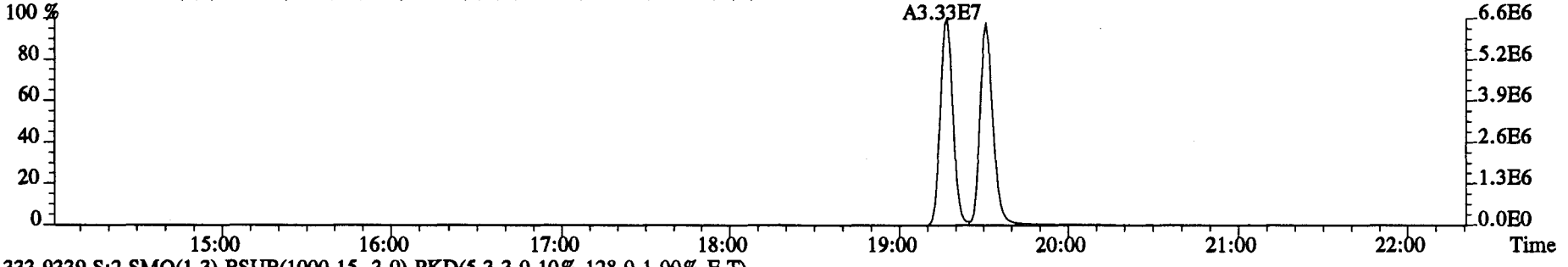
319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,952.0,1.00%,F,T)



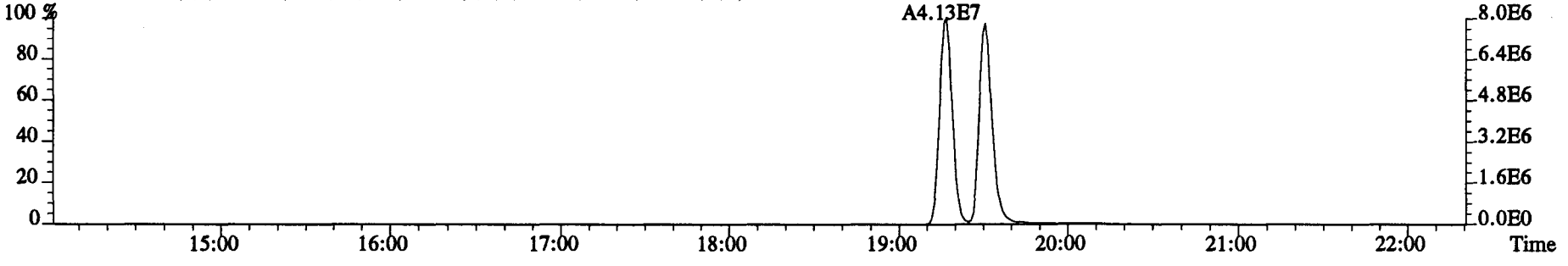
321.8936 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1572.0,1.00%,F,T)



331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2368.0,1.00%,F,T)

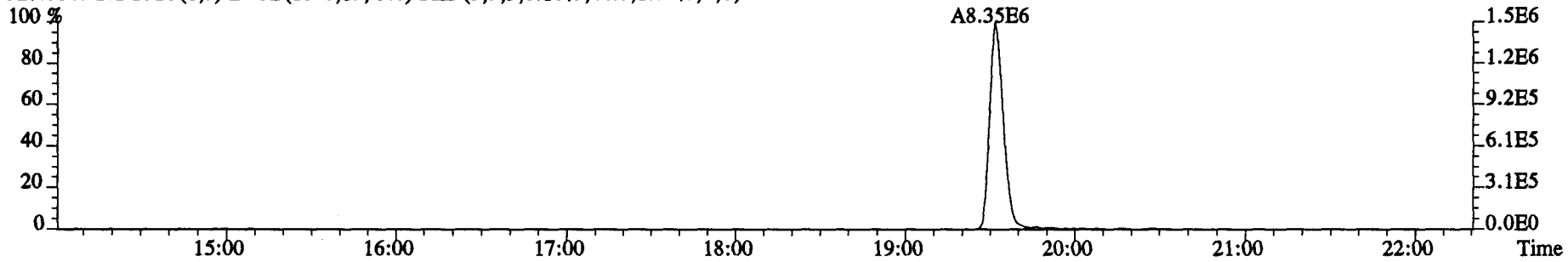


333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,128.0,1.00%,F,T)

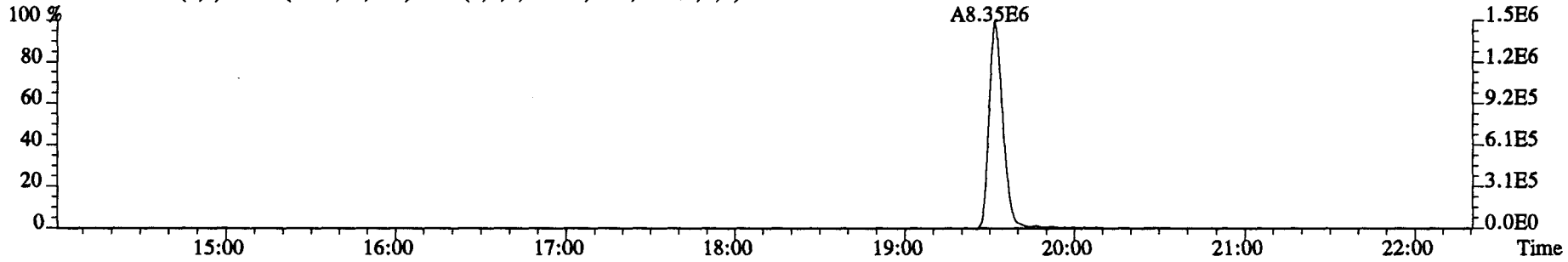


File:17FE104D5 #1-578 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN

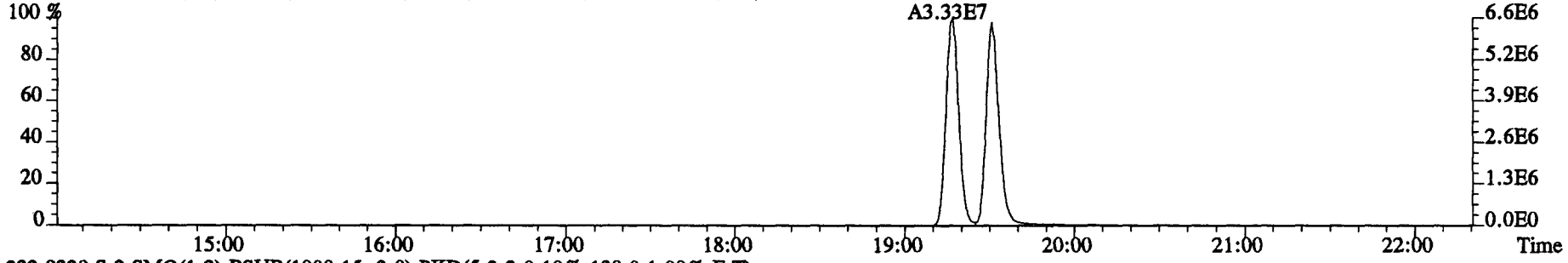
327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44.0,1.00%,F,T)



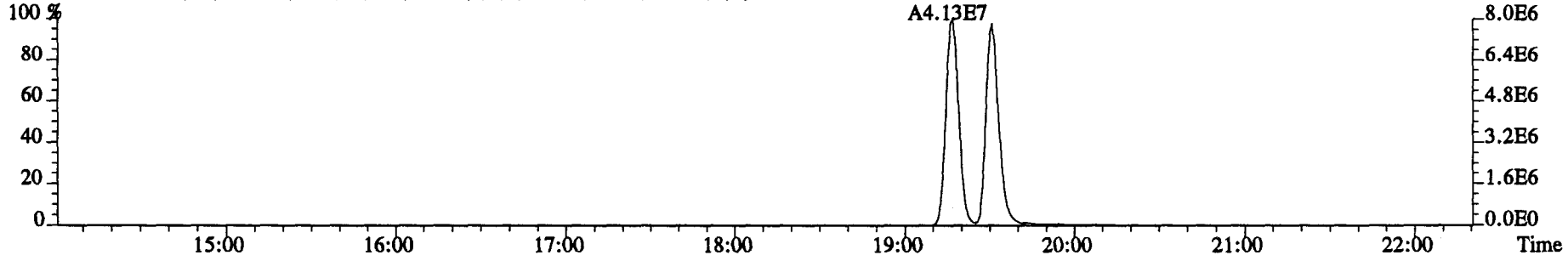
327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44.0,1.00%,F,T)



331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2368.0,1.00%,F,T)

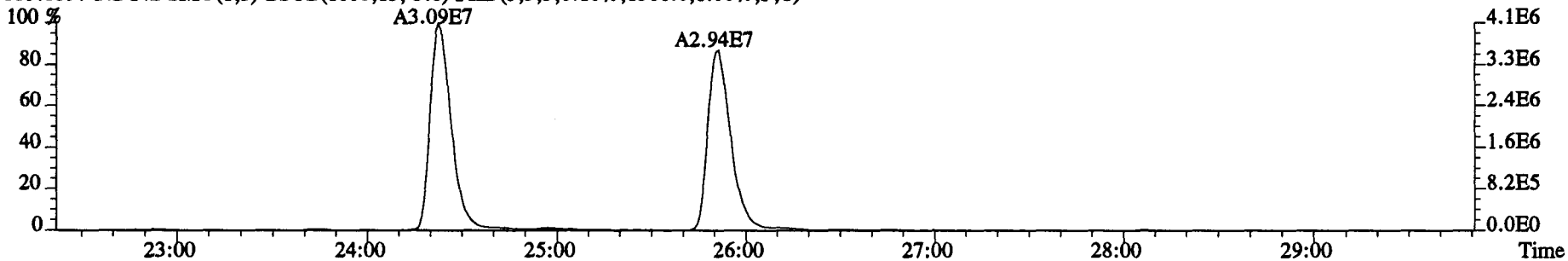


333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,128.0,1.00%,F,T)

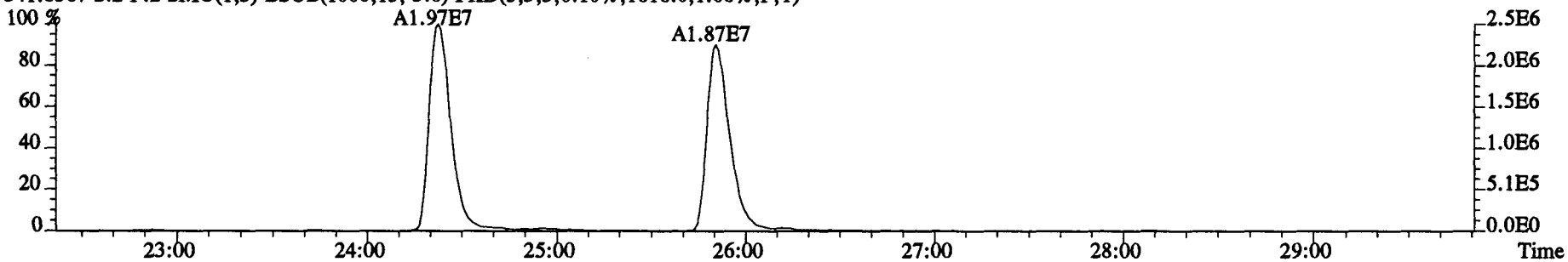


File:17FE104D5 #1-597 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN

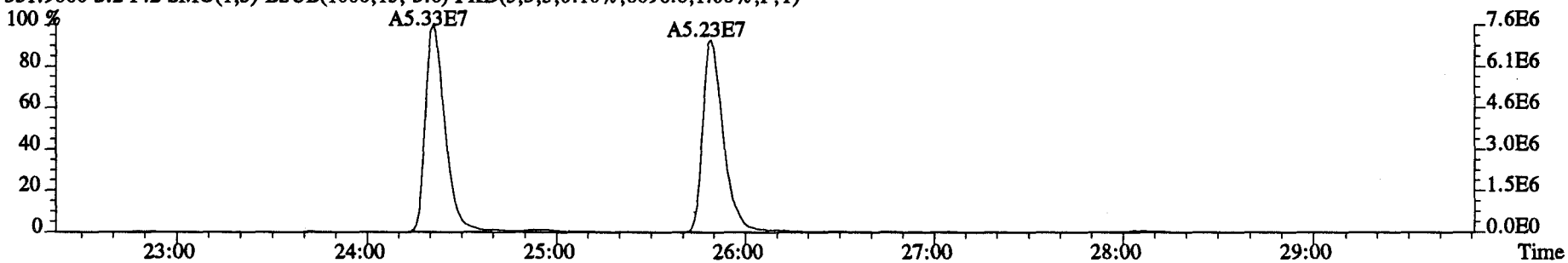
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1380.0,1.00%,F,T)



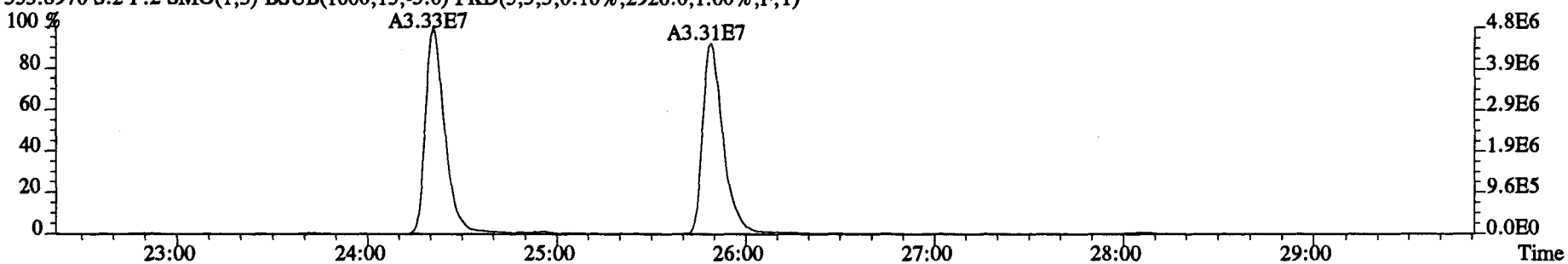
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1616.0,1.00%,F,T)



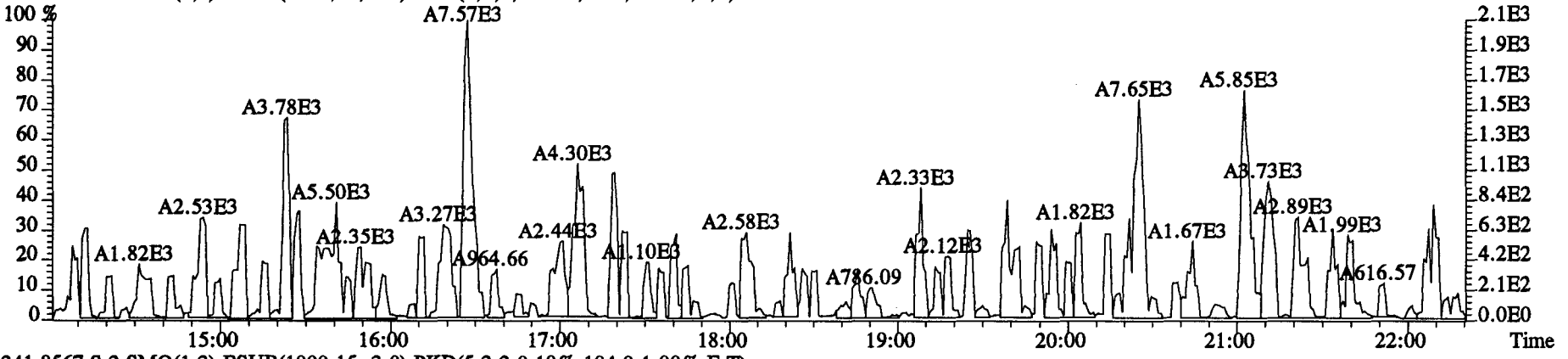
351.9000 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6096.0,1.00%,F,T)



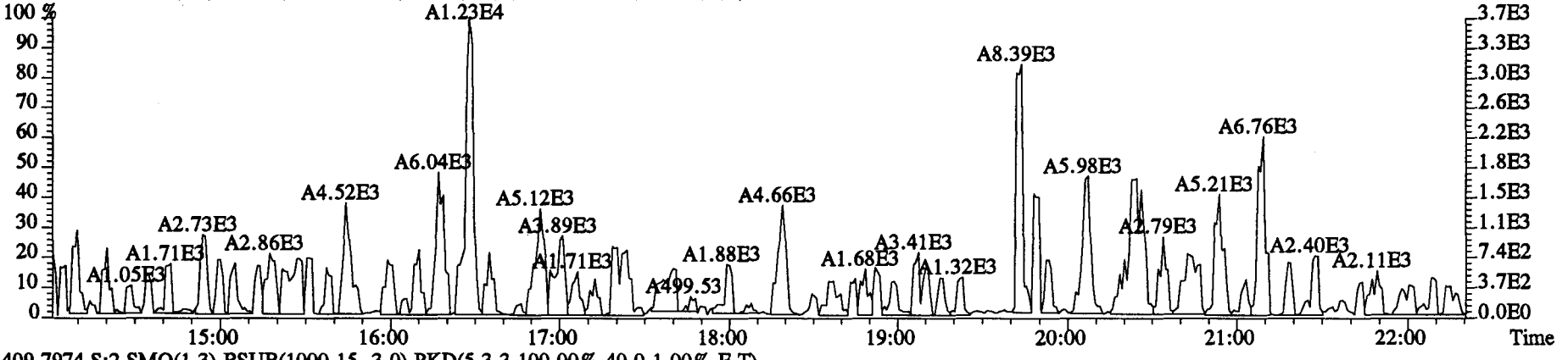
353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2920.0,1.00%,F,T)



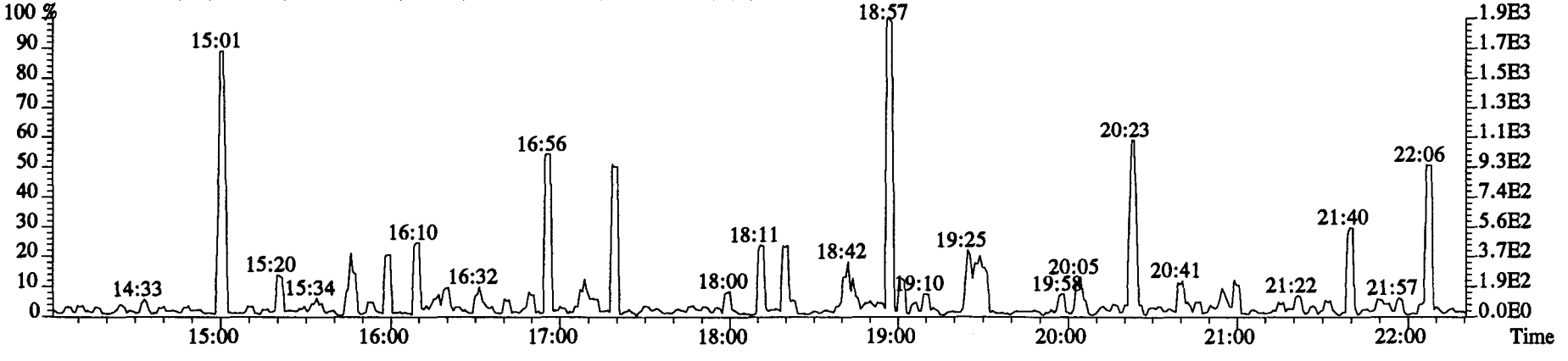
File:17FE104D5 #1-578 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN
339.8597 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52.0,1.00%,F,T)



341.8567 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,104.0,1.00%,F,T)

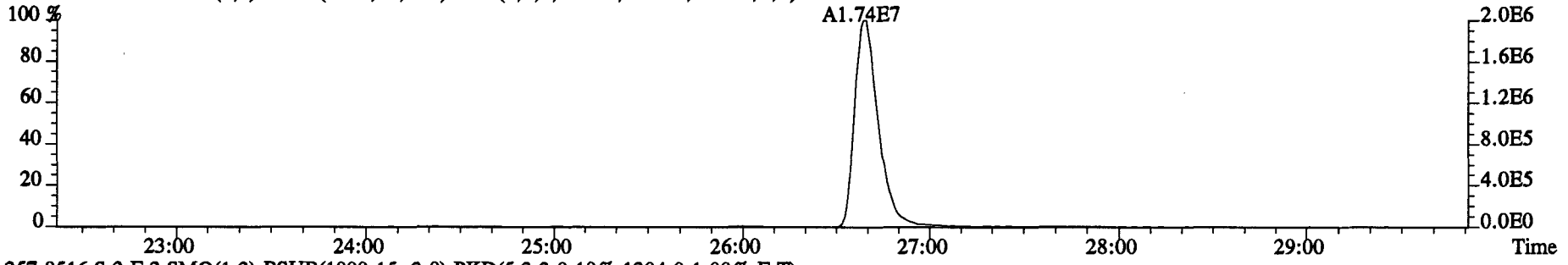


409.7974 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,40.0,1.00%,F,T)

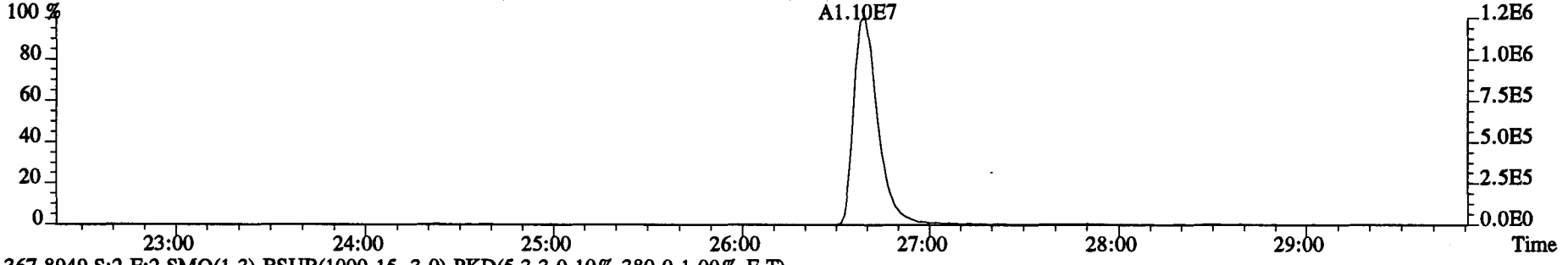


File:17FE104D5 #1-597 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN

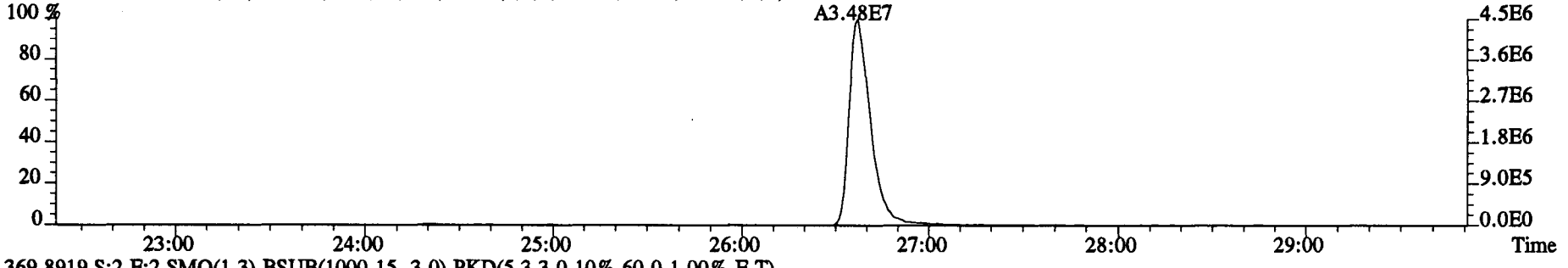
355.8546 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1844.0,1.00%,F,T)



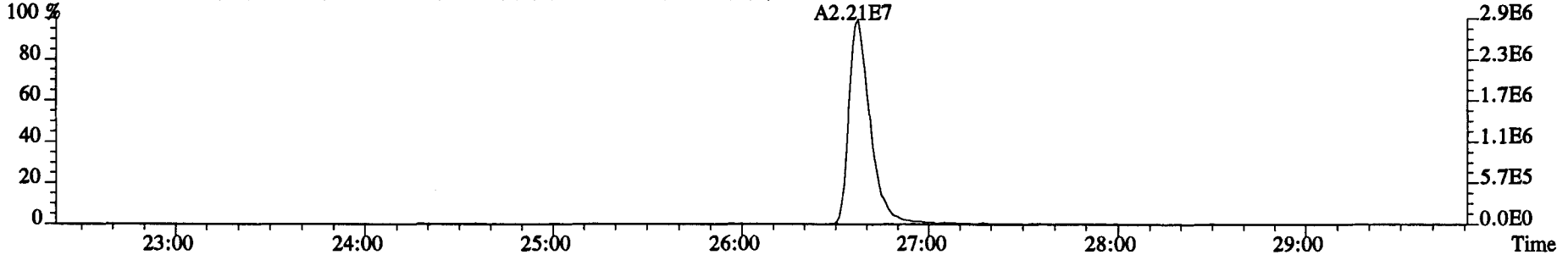
357.8516 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1204.0,1.00%,F,T)



367.8949 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,380.0,1.00%,F,T)

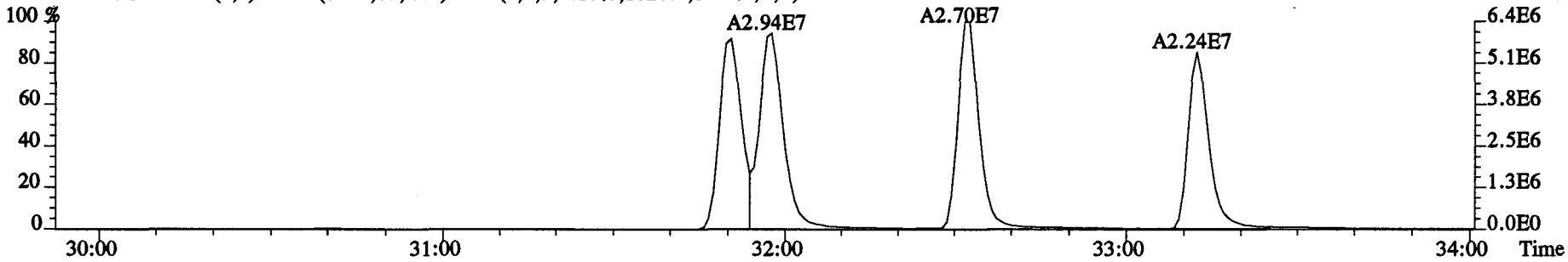


369.8919 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,60.0,1.00%,F,T)

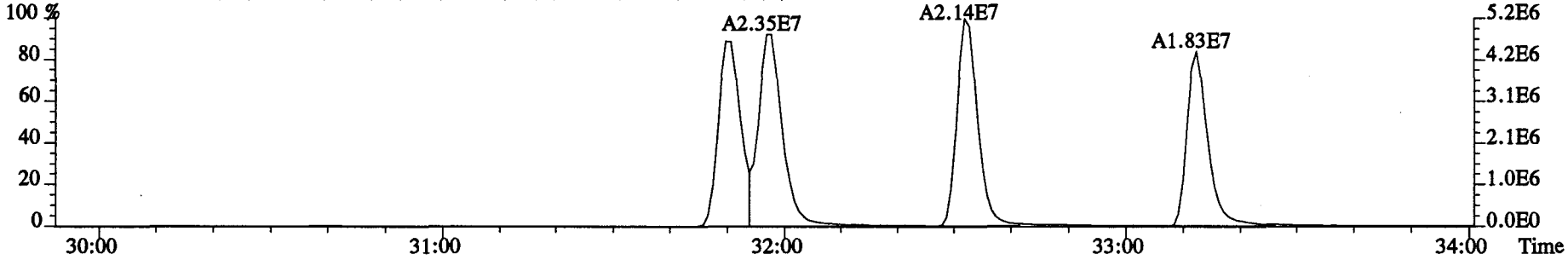


File:17FE104D5 #1-314 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN

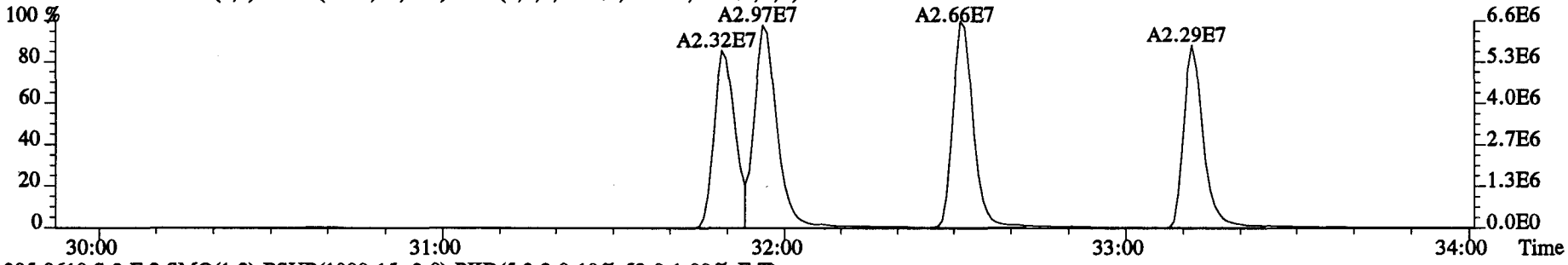
373.8208 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1020.0,1.00%,F,T)



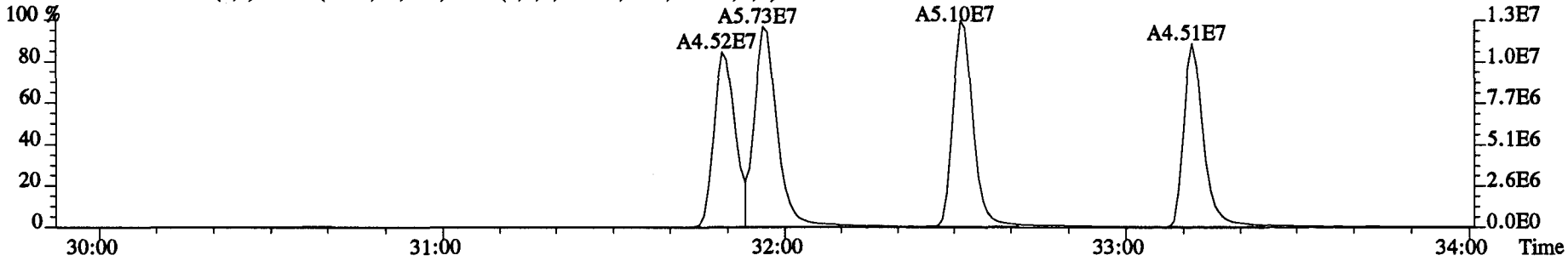
375.8178 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,740.0,1.00%,F,T)



383.8639 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4112.0,1.00%,F,T)

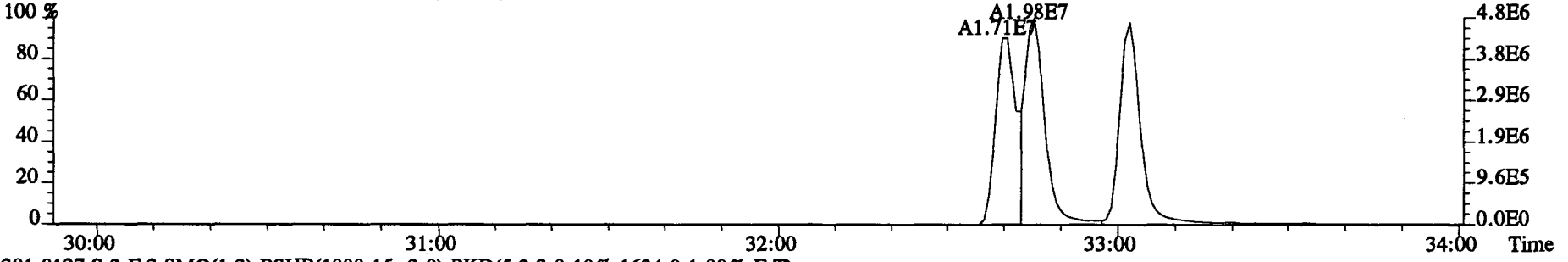


385.8610 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52.0,1.00%,F,T)

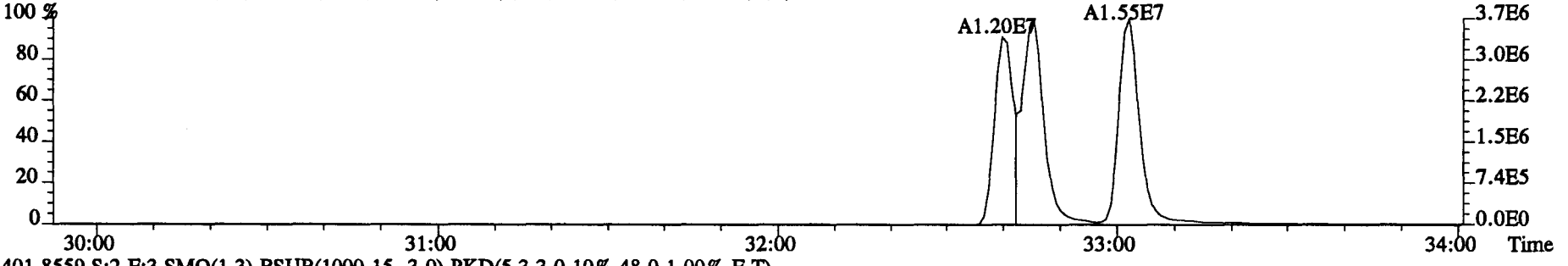


File:17FE104D5 #1-314 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN

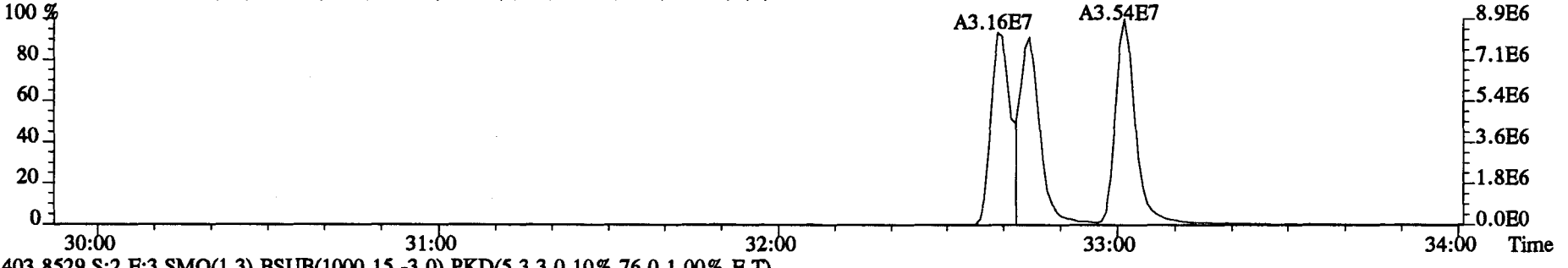
389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1032.0,1.00%,F,T)



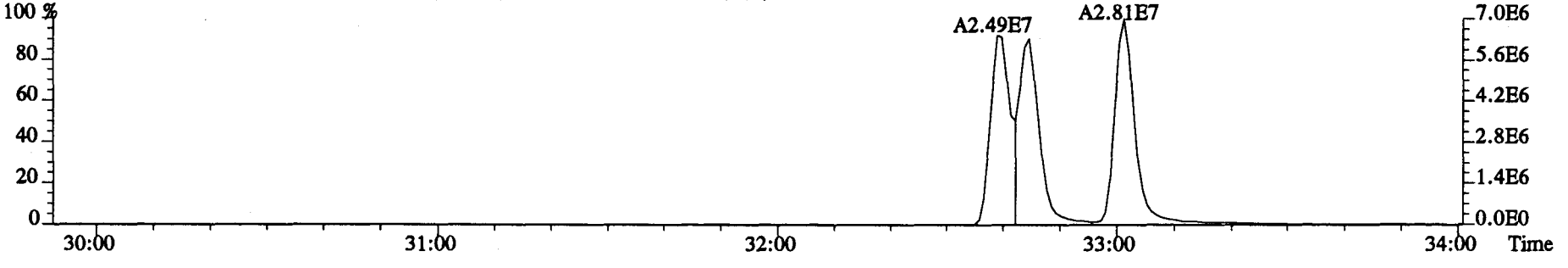
391.8127 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1624.0,1.00%,F,T)



401.8559 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)

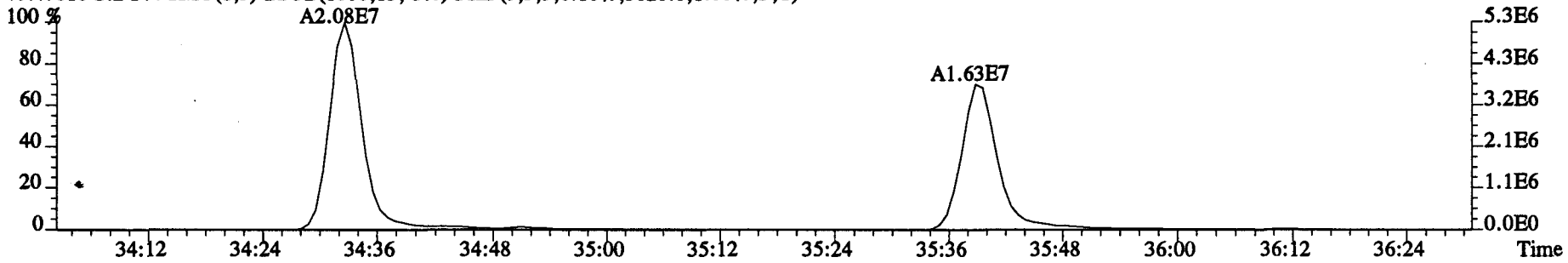


403.8529 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,76.0,1.00%,F,T)

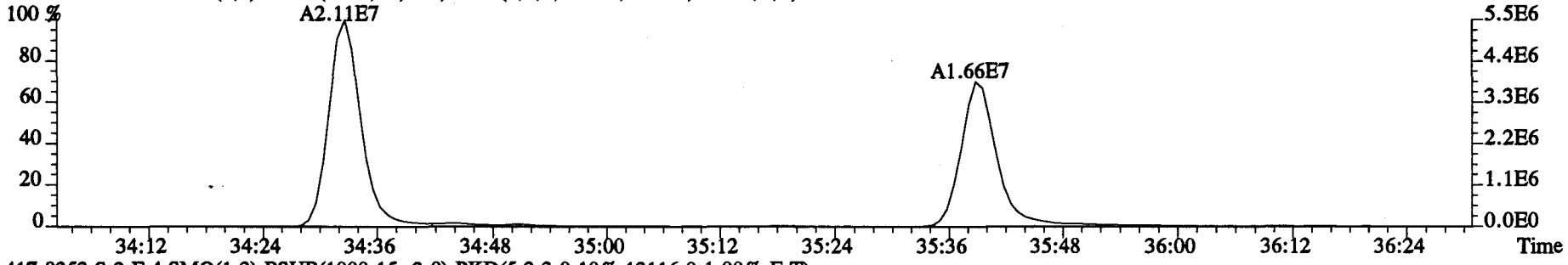


File:17FE104D5 #1-198 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN

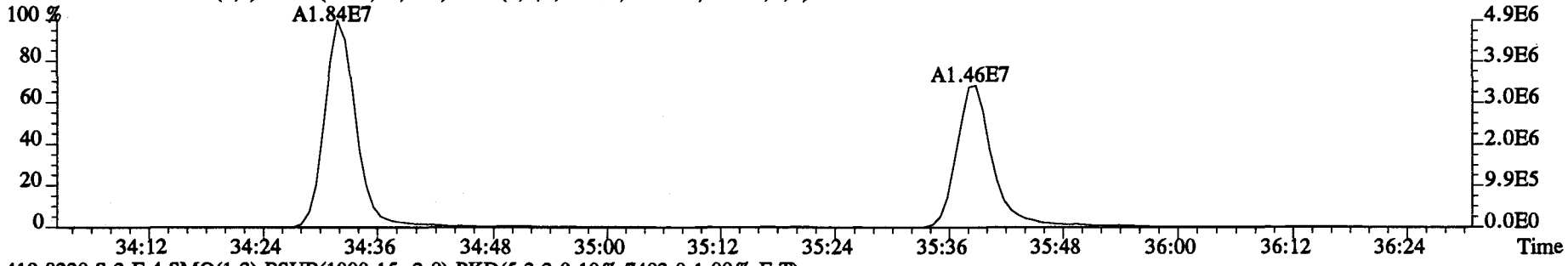
407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5020.0,1.00%,F,T)



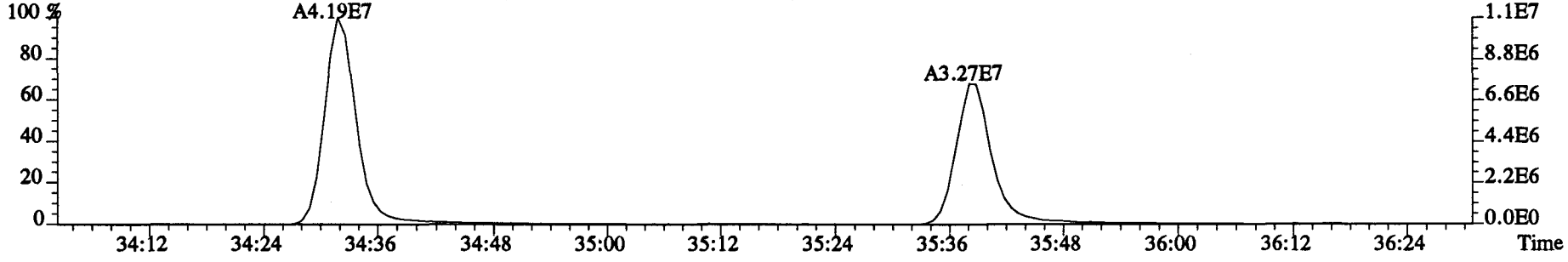
409.7789 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8136.0,1.00%,F,T)



417.8253 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12116.0,1.00%,F,T)

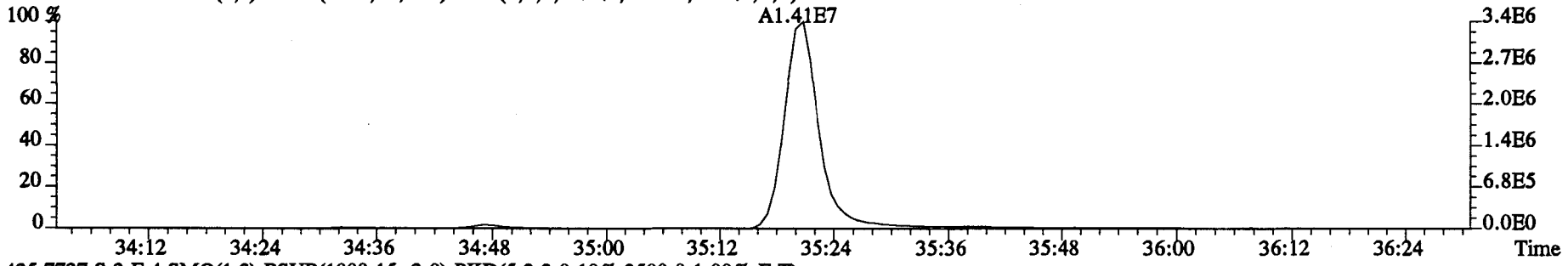


419.8220 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7492.0,1.00%,F,T)

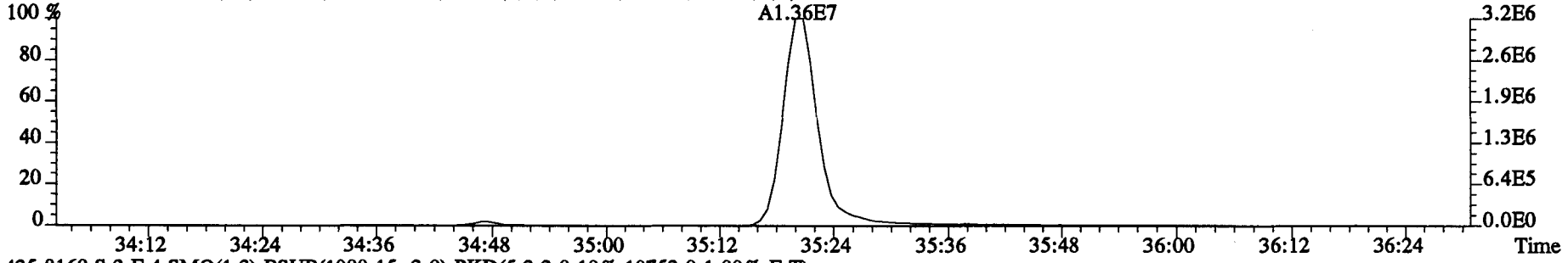


File:17FE104D5 #1-198 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN

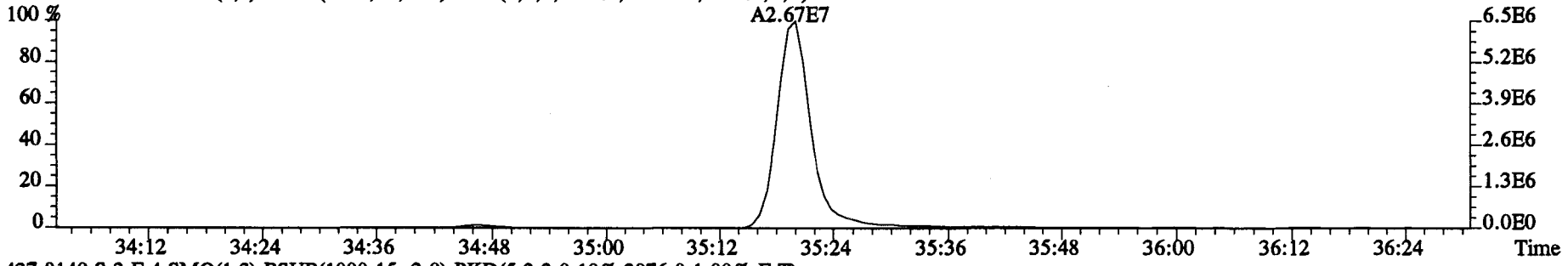
423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3136.0,1.00%,F,T)



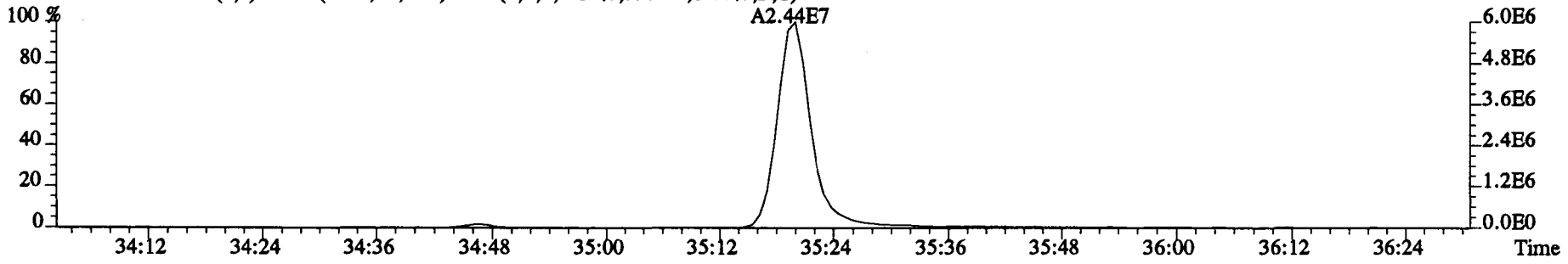
425.7737 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3500.0,1.00%,F,T)



435.8169 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10752.0,1.00%,F,T)

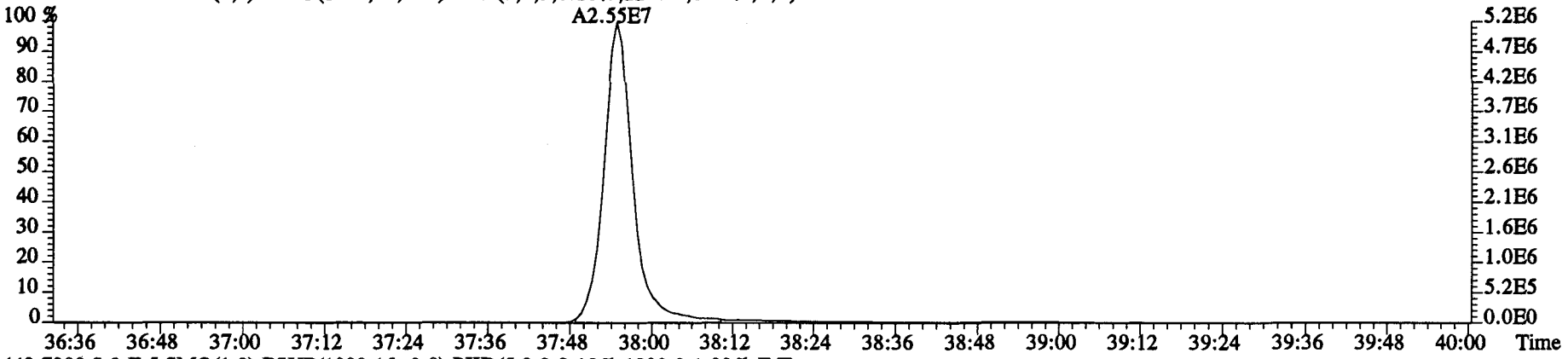


437.8140 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3976.0,1.00%,F,T)

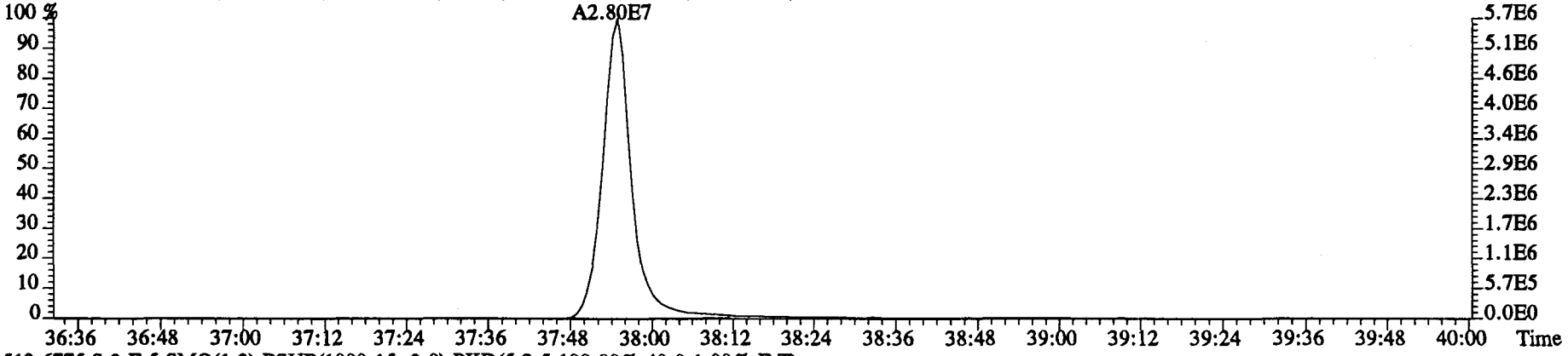


TestAmerica West Sacramento (916) 373 - 5600

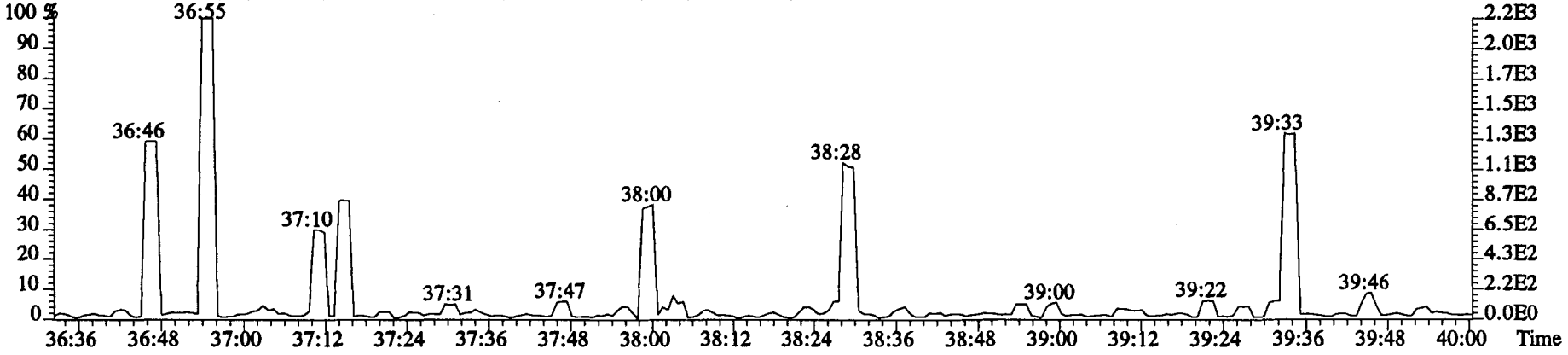
File:17FE104D5 #1-281 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN
441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2232.0,1.00%,F,T)



443.7399 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1800.0,1.00%,F,T)

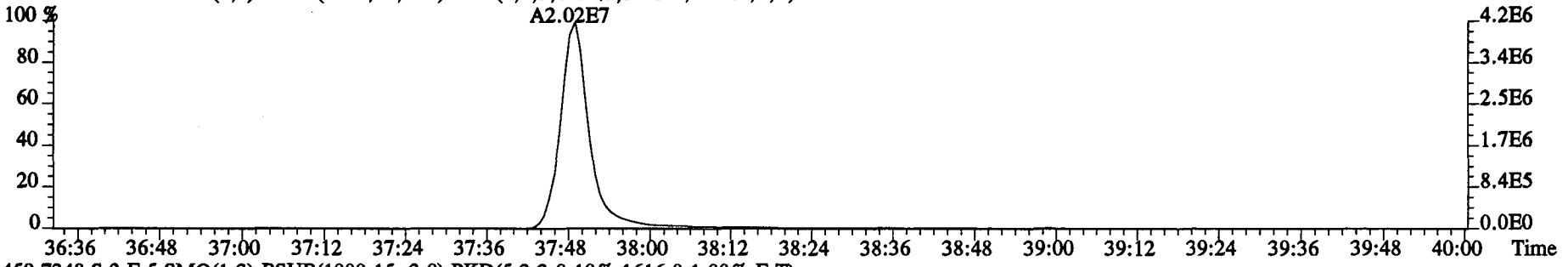


513.6775 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,40.0,1.00%,F,T)

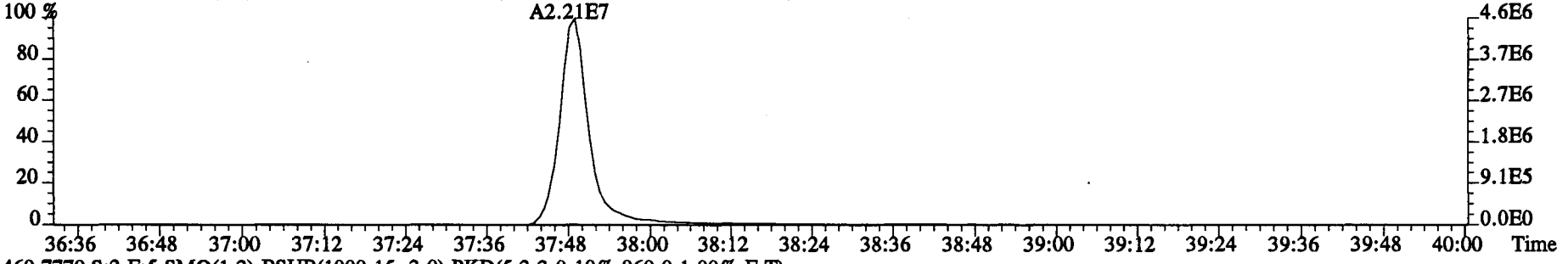


File:17FE104D5 #1-281 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN

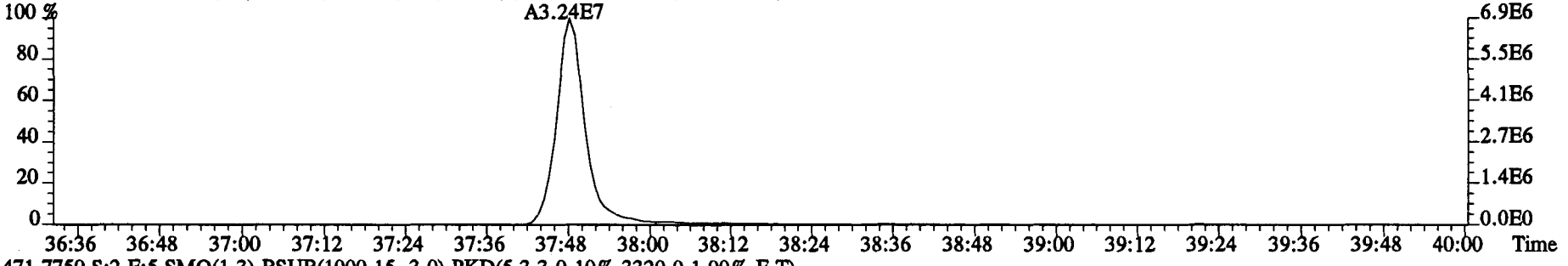
457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1692.0,1.00%,F,T)



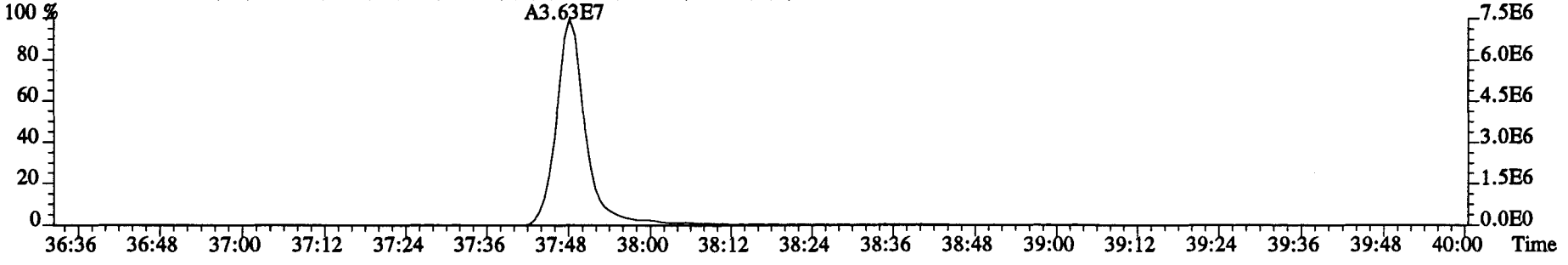
459.7348 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1616.0,1.00%,F,T)



469.7779 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,960.0,1.00%,F,T)



471.7750 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3320.0,1.00%,F,T)



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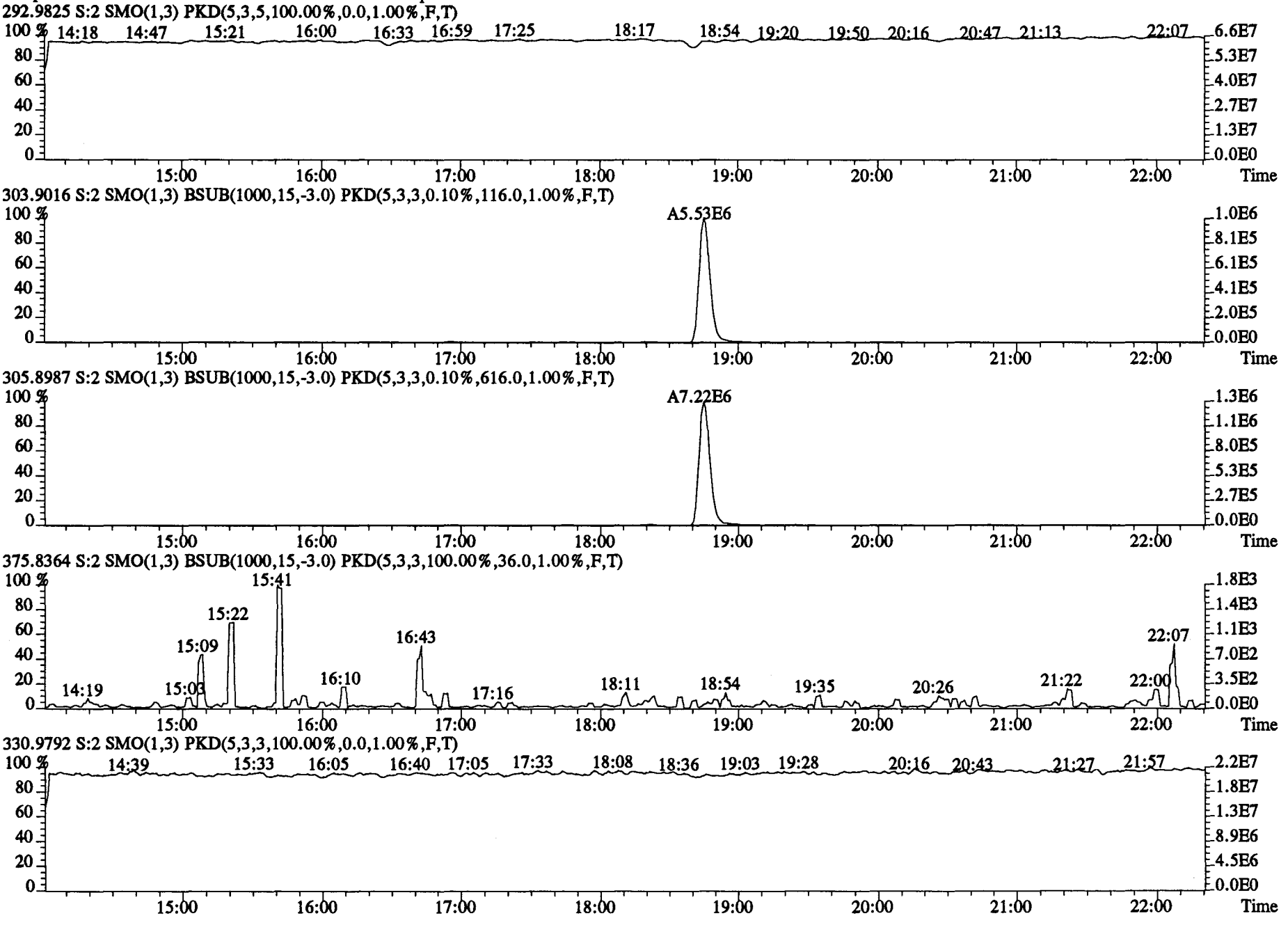
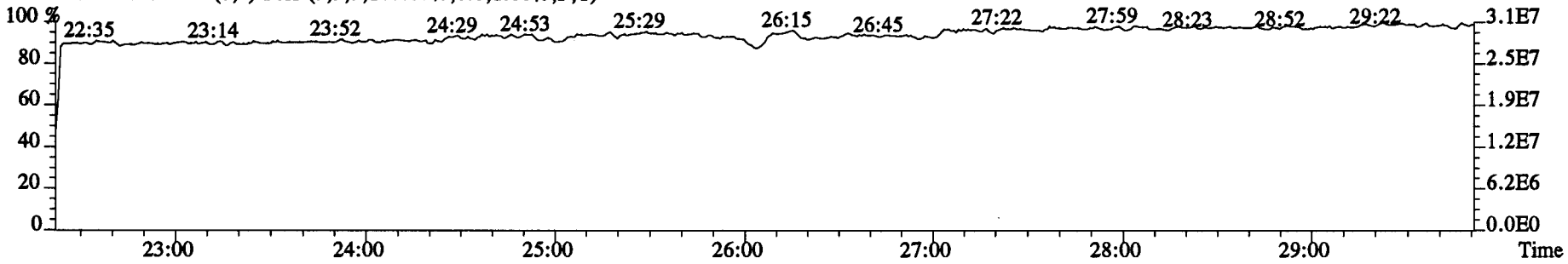
File:17FE104D5 #1-578 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN

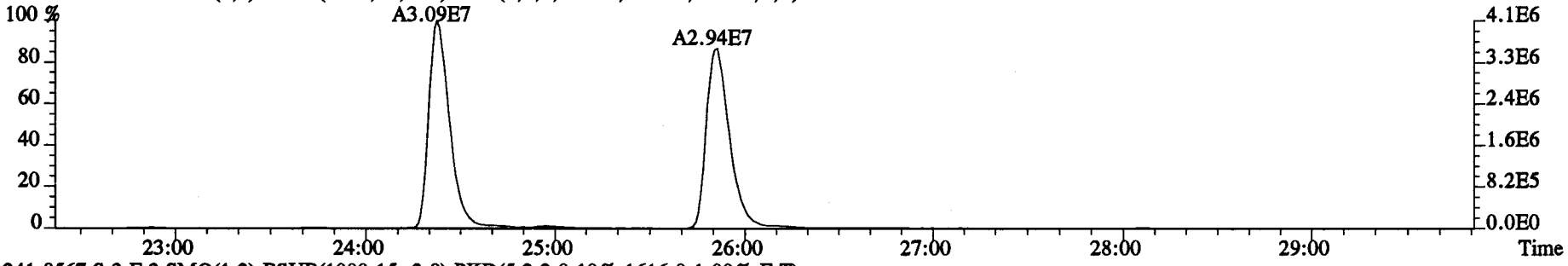


File:17FE104D5 #1-597 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN

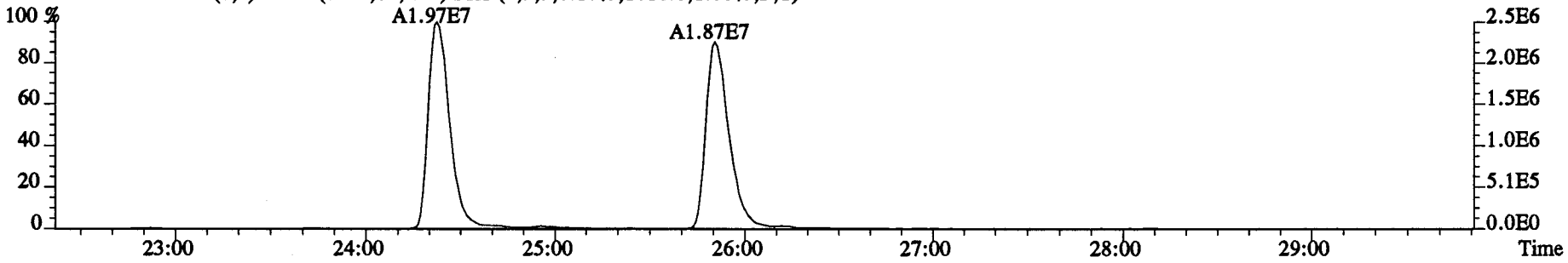
342.9792 S:2 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



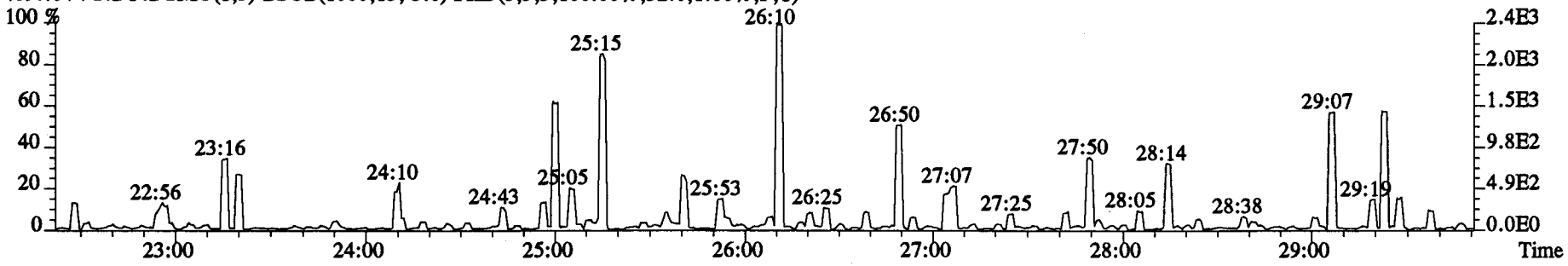
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1380.0,1.00%,F,T)



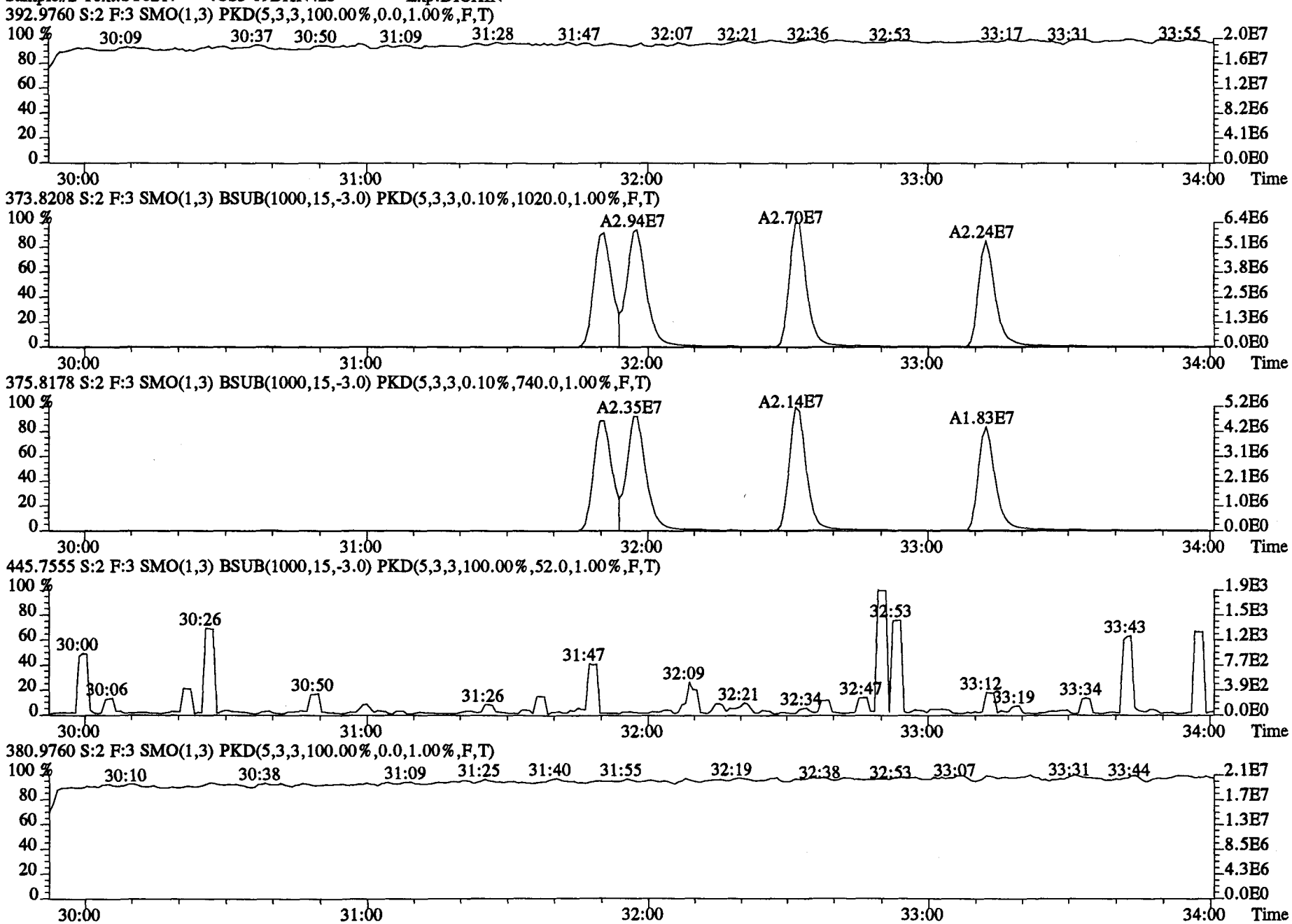
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1616.0,1.00%,F,T)



409.7974 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,32.0,1.00%,F,T)



File:17FE104D5 #1-314 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN



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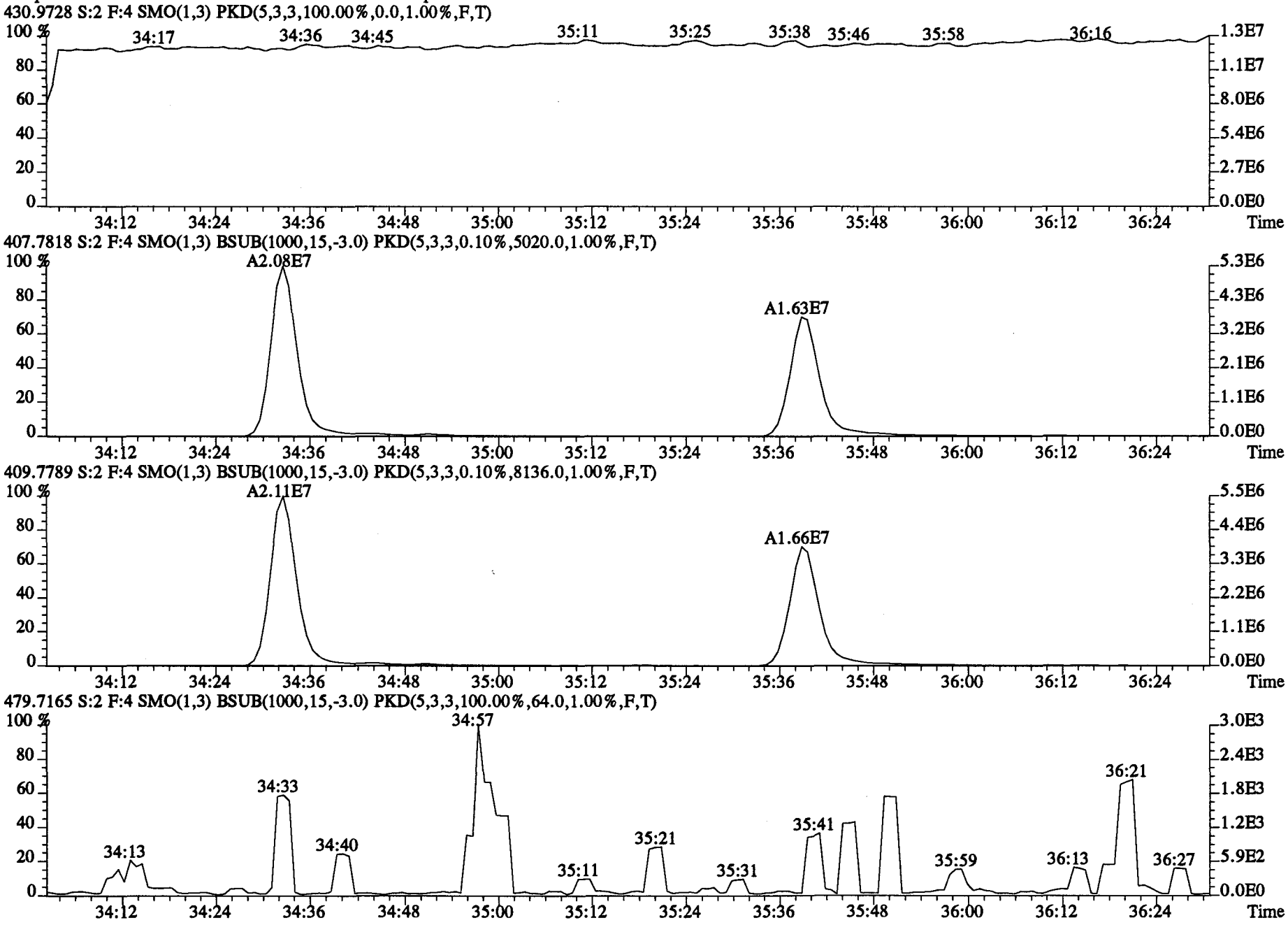
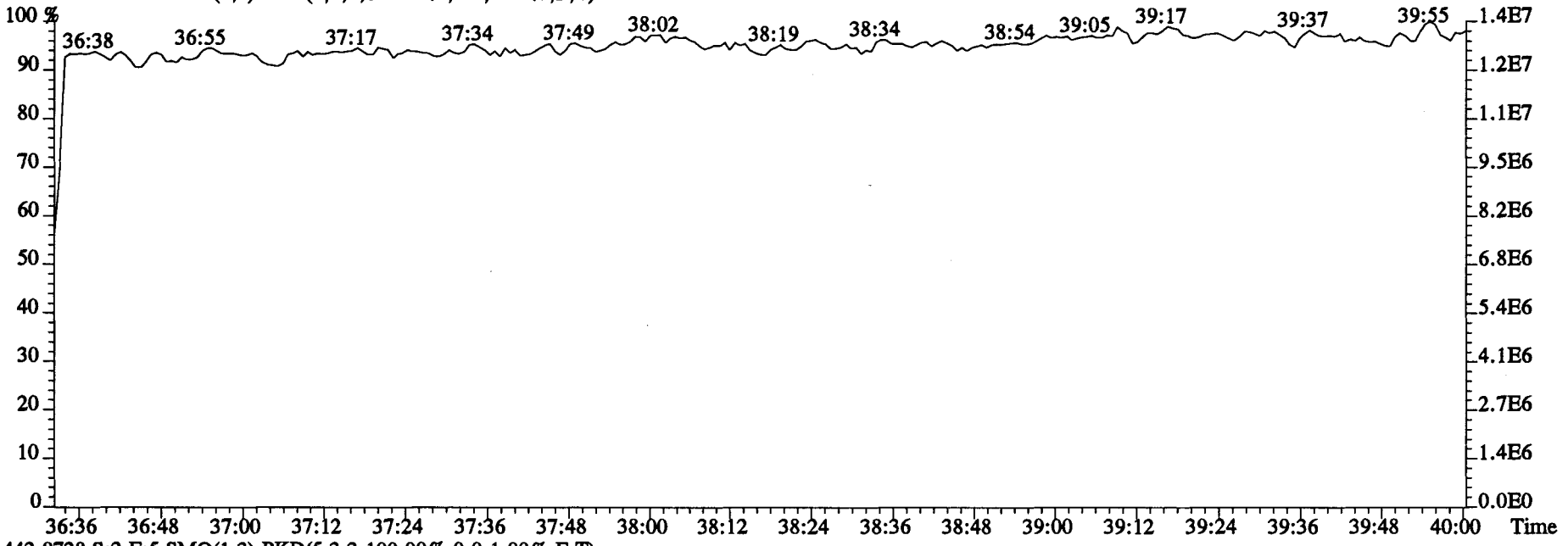
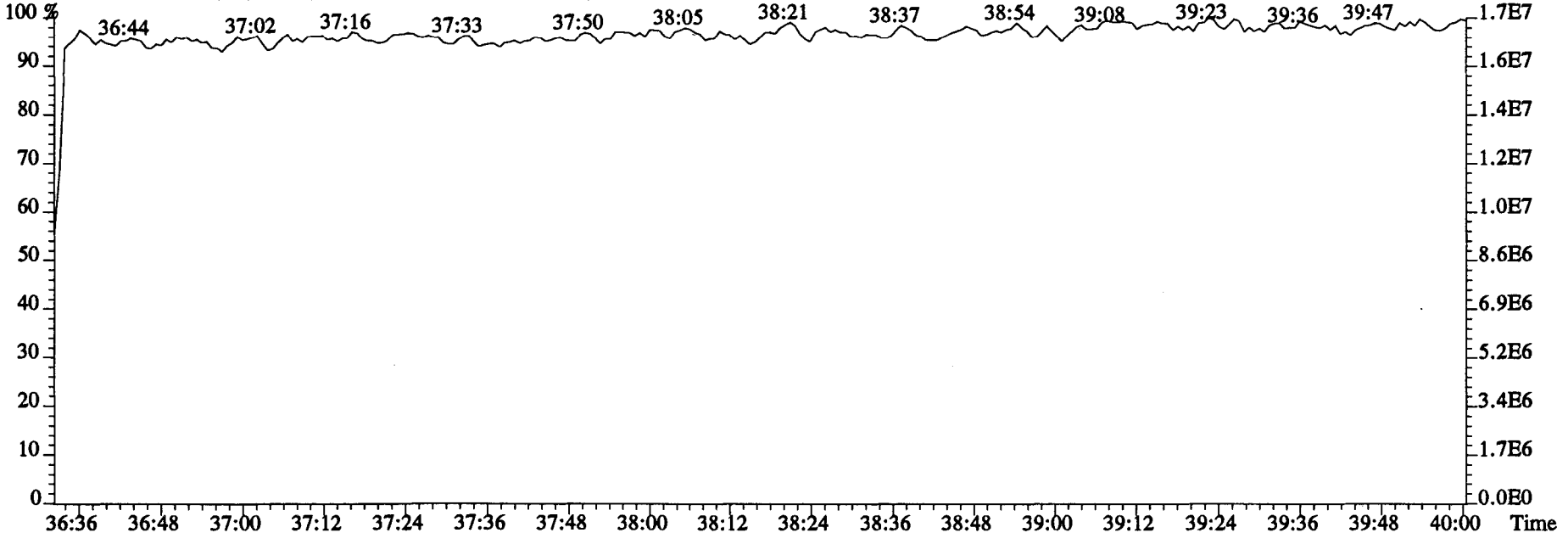
File:17FE104D5 #1-198 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN



File:17FE104D5 #1-281 Acq:17-FEB-2010 10:17:49 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0217 :CS3 09DXN425 Exp:DIOXIN
454.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

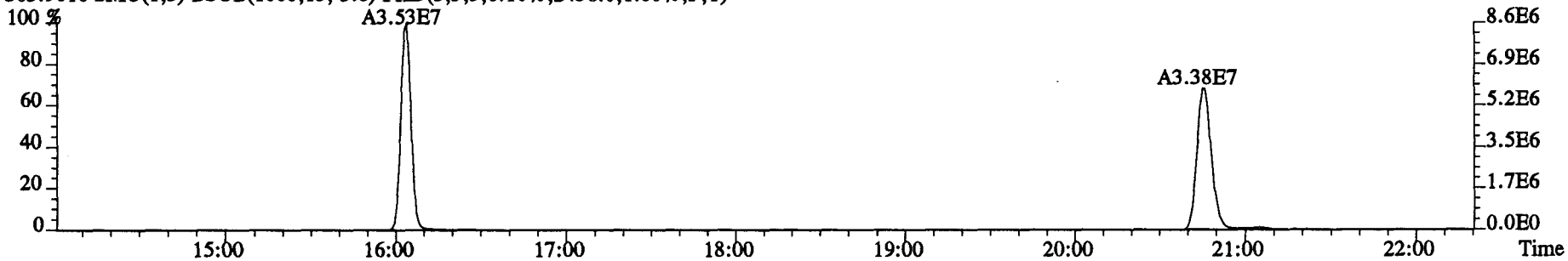


442.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

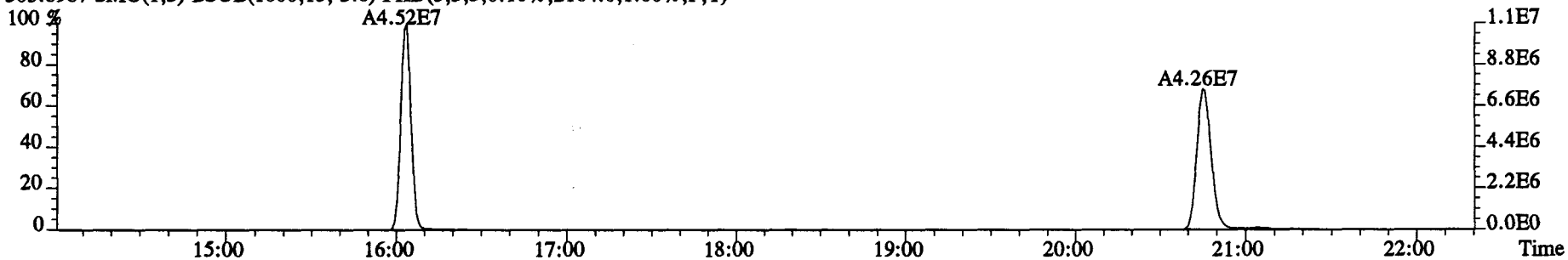


File:17FE104D5 #1-578 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN

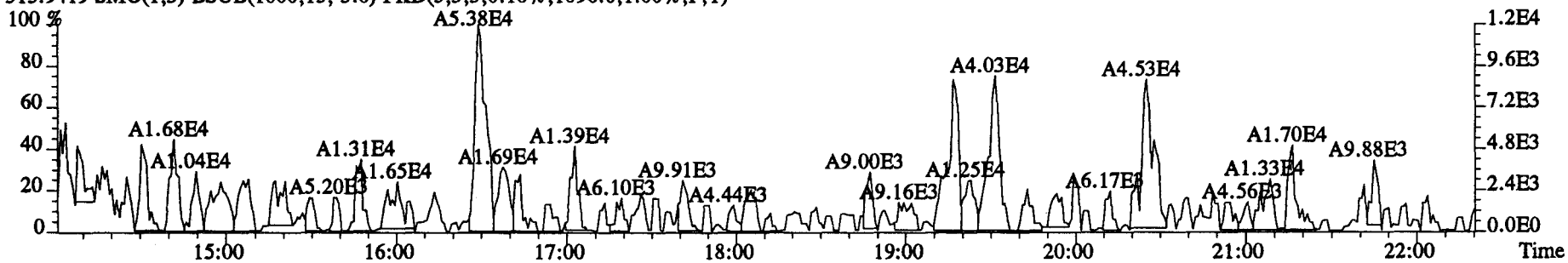
303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2436.0,1.00%,F,T)



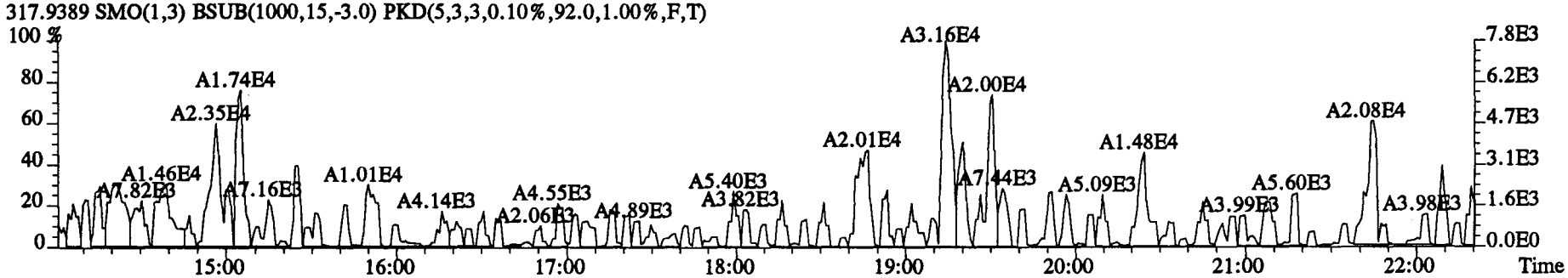
305.8987 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2164.0,1.00%,F,T)



315.9419 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1096.0,1.00%,F,T)



317.9389 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,92.0,1.00%,F,T)



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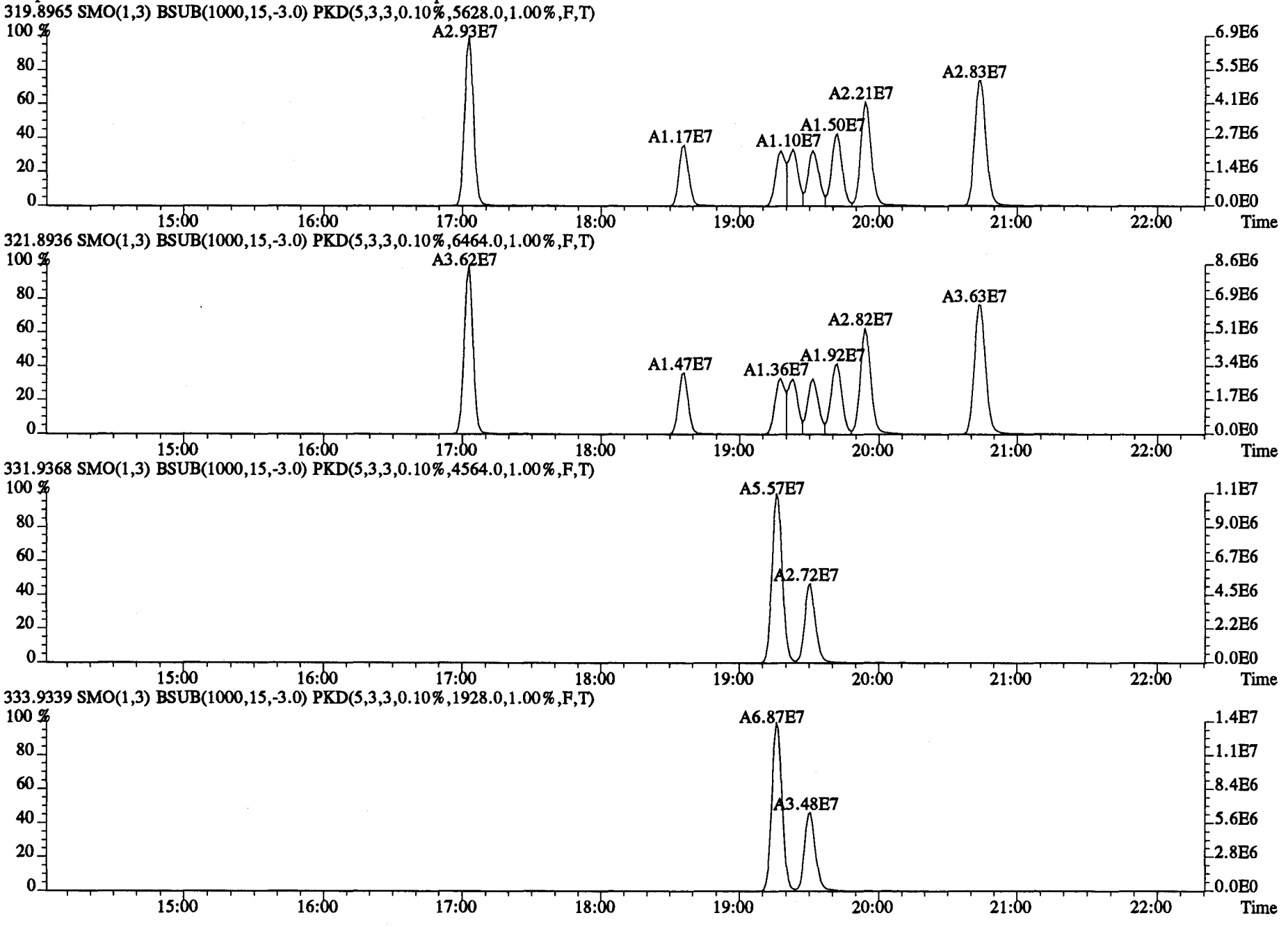
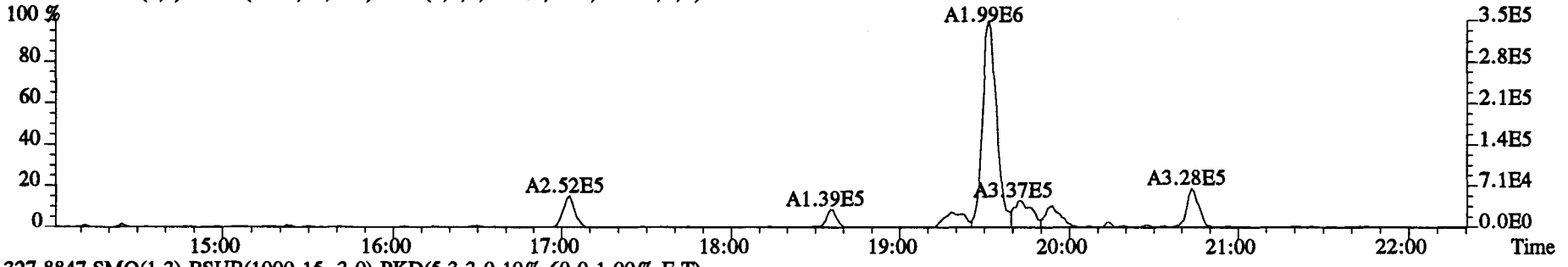
File:17FE104D5 #1-578 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN

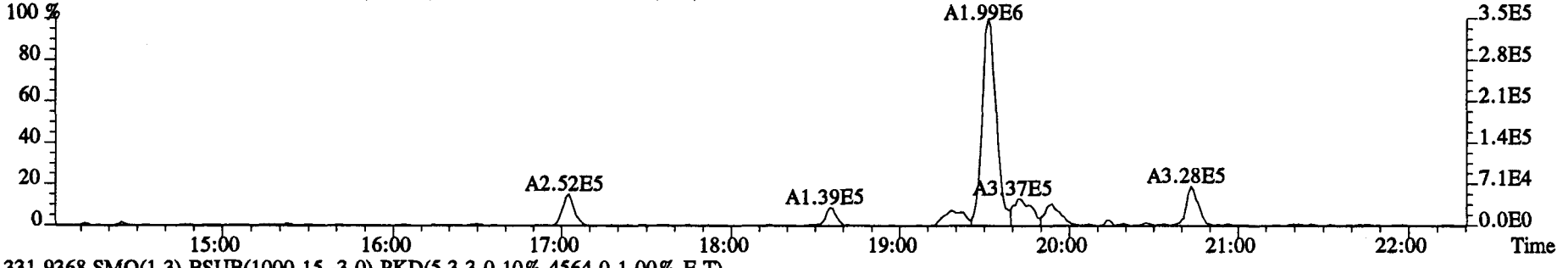


File:17FE104D5 #1-578 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN

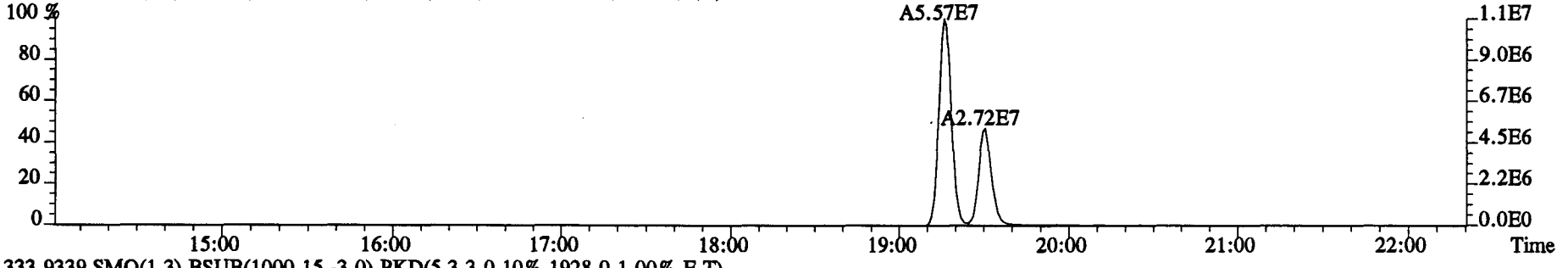
327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,60.0,1.00%,F,T)



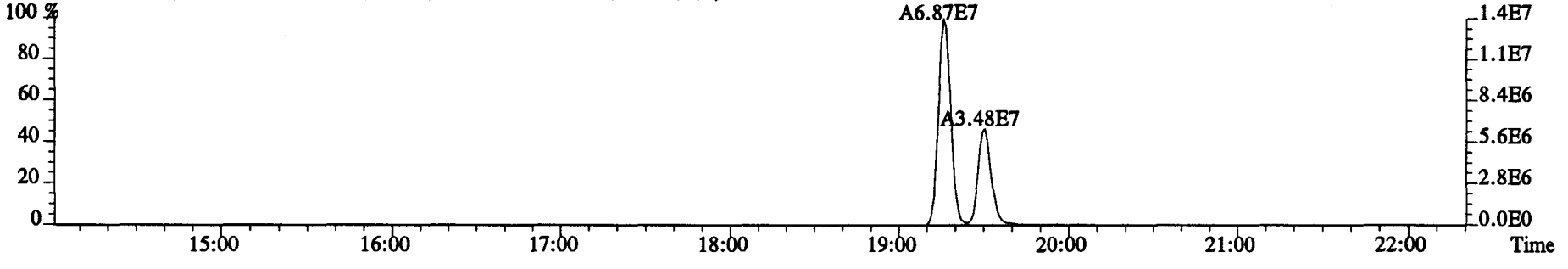
327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,60.0,1.00%,F,T)



331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4564.0,1.00%,F,T)

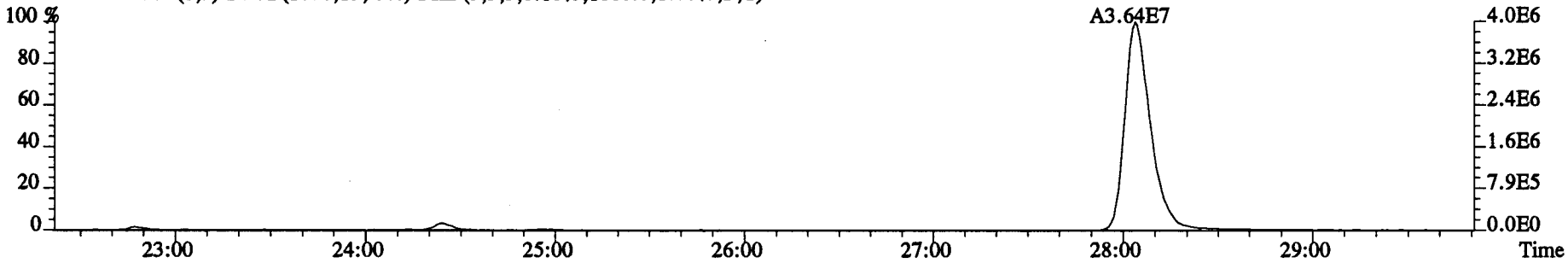


333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1928.0,1.00%,F,T)

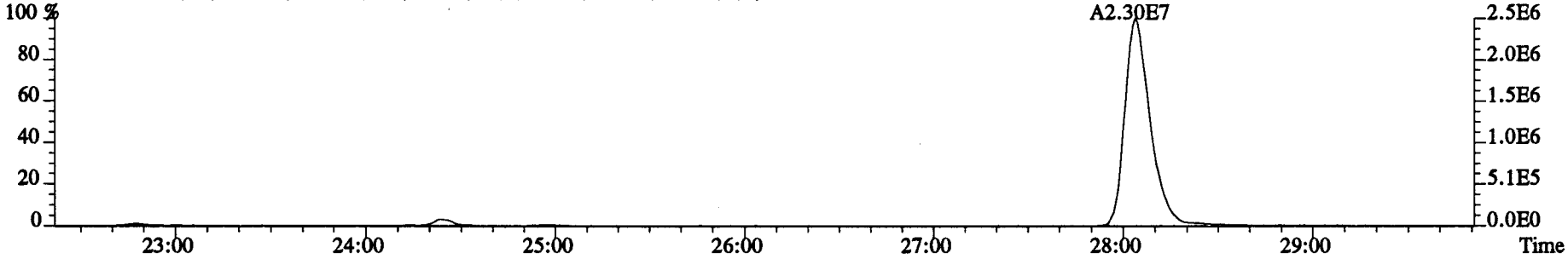


File:17FE104D5 #1-597 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN

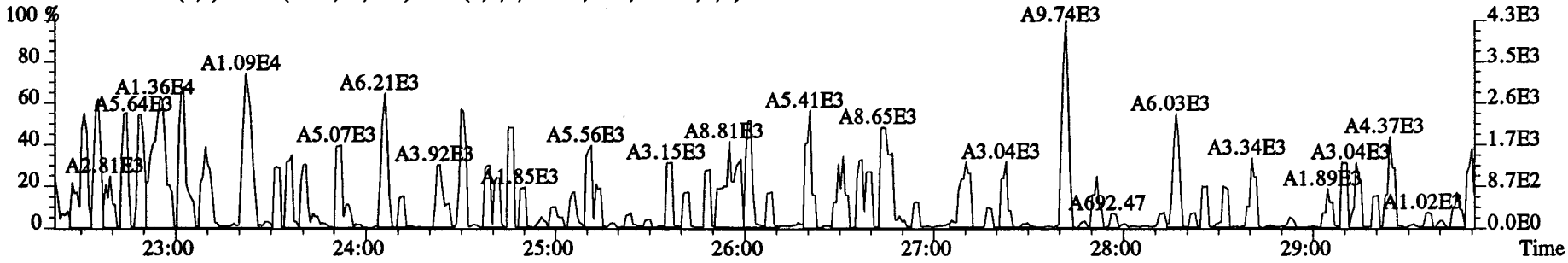
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1860.0,1.00%,F,T)



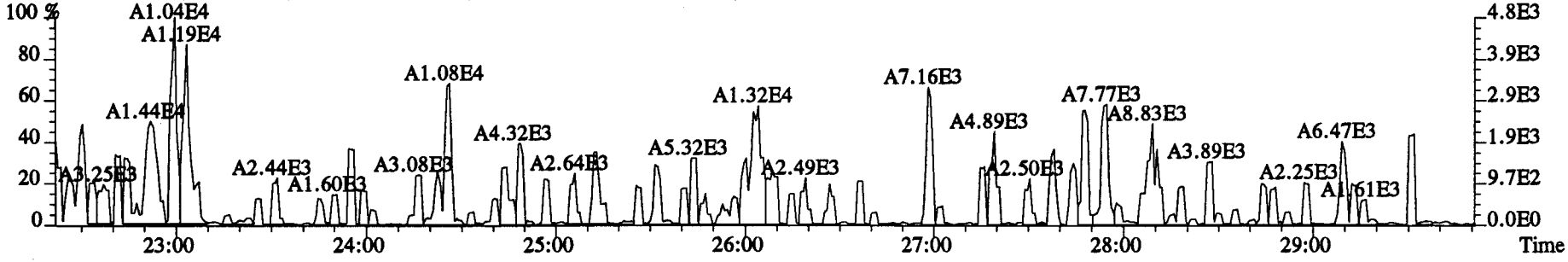
341.8567 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1472.0,1.00%,F,T)



351.9000 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52.0,1.00%,F,T)

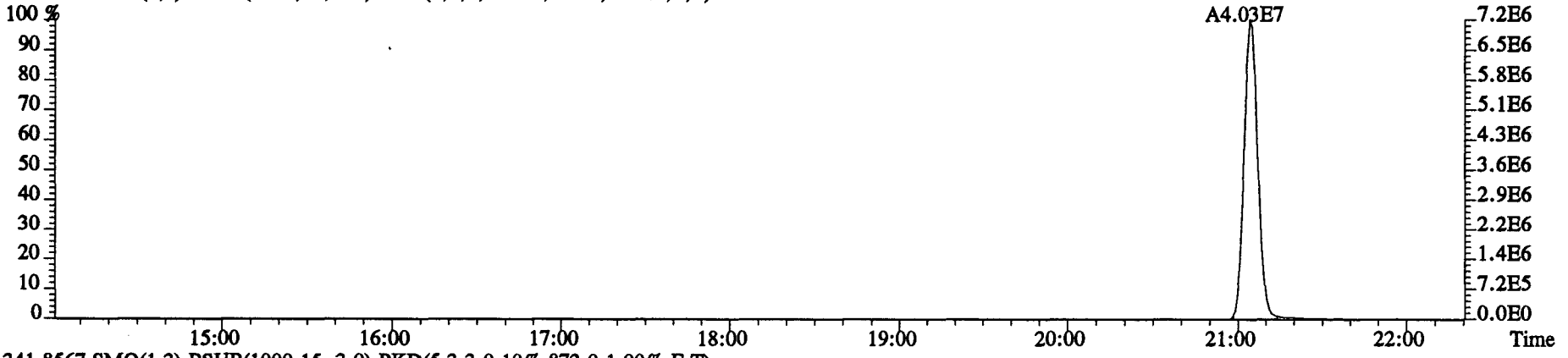


353.8970 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)

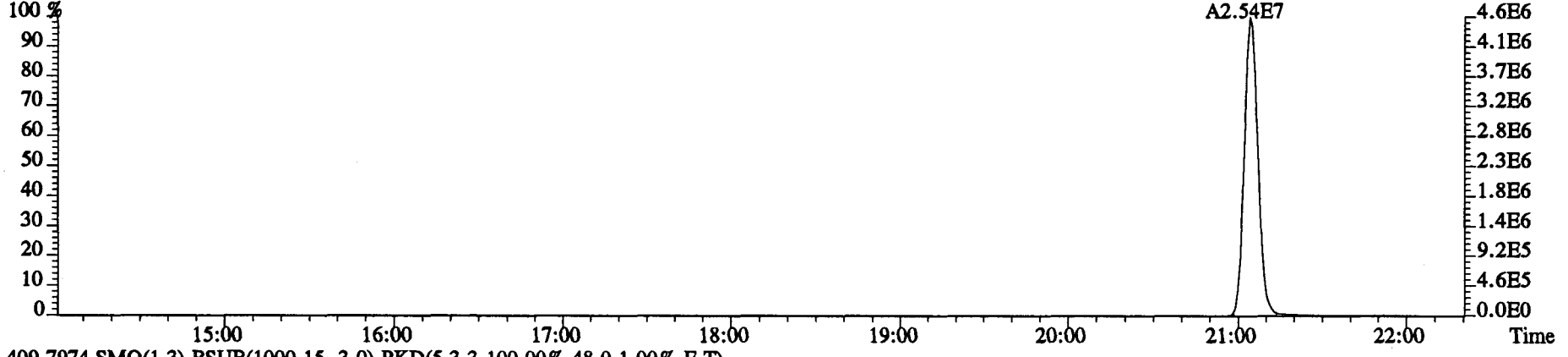


File:17FE104D5 #1-578 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN

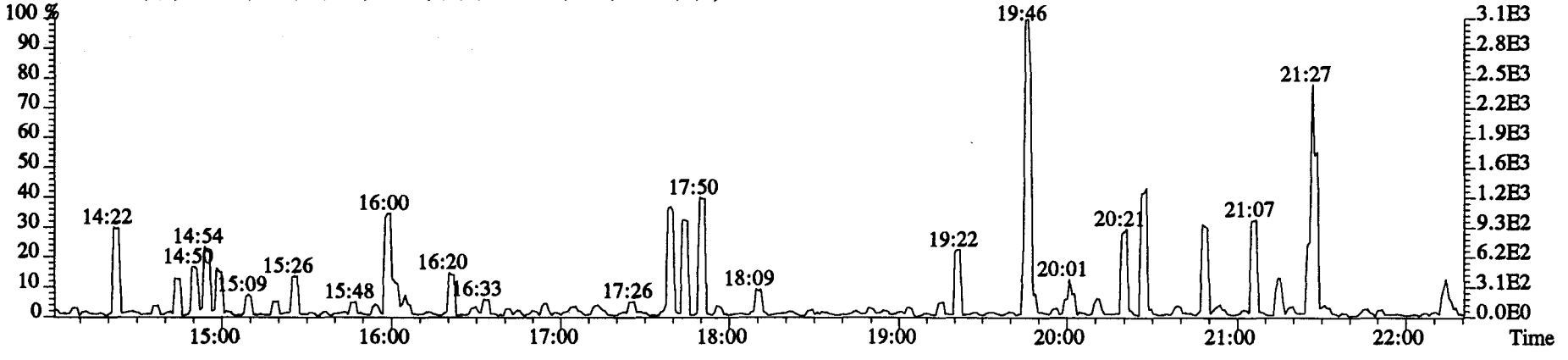
339.8597 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,840.0,1.00%,F,T)



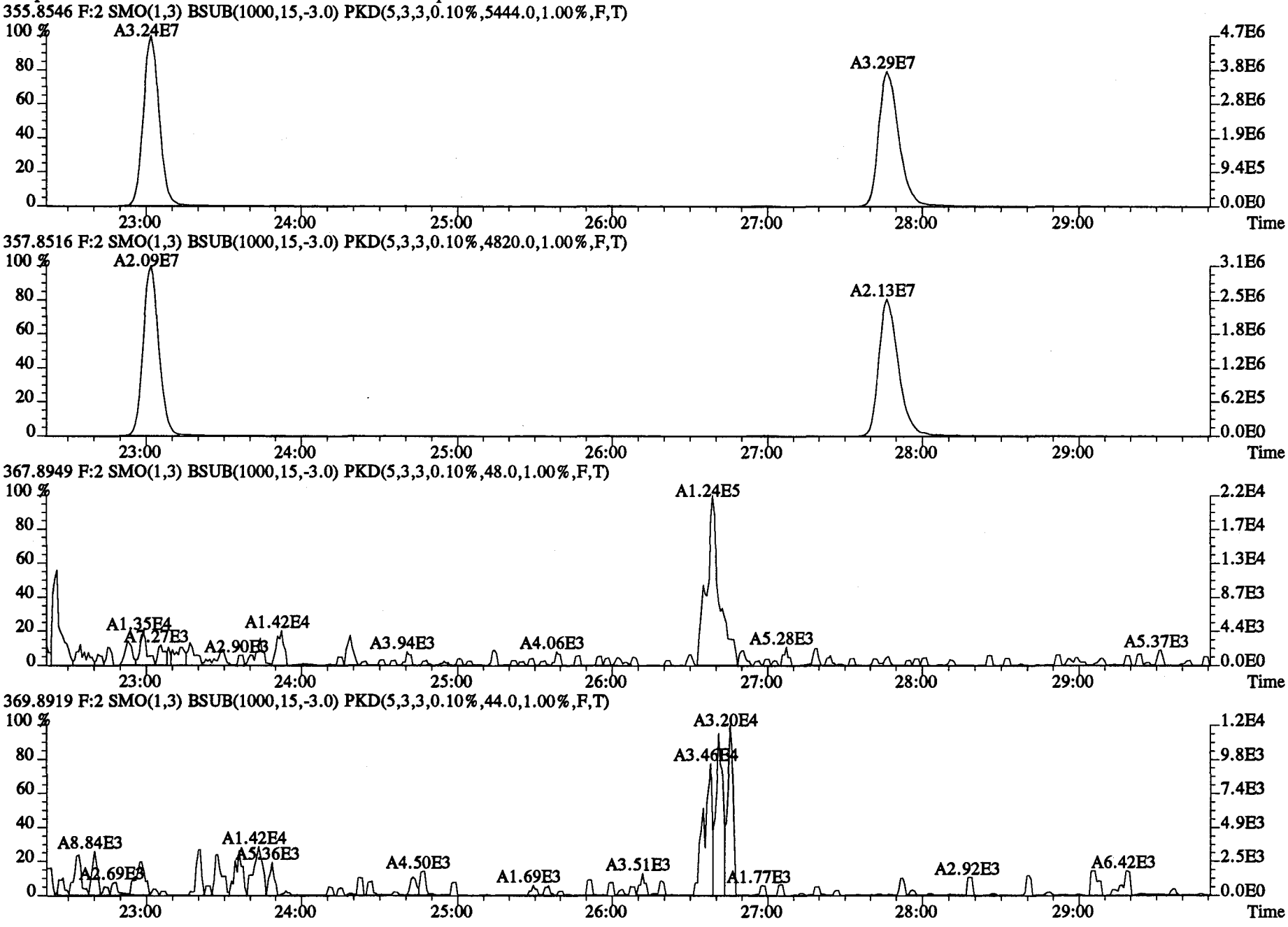
341.8567 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,872.0,1.00%,F,T)



409.7974 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,48.0,1.00%,F,T)

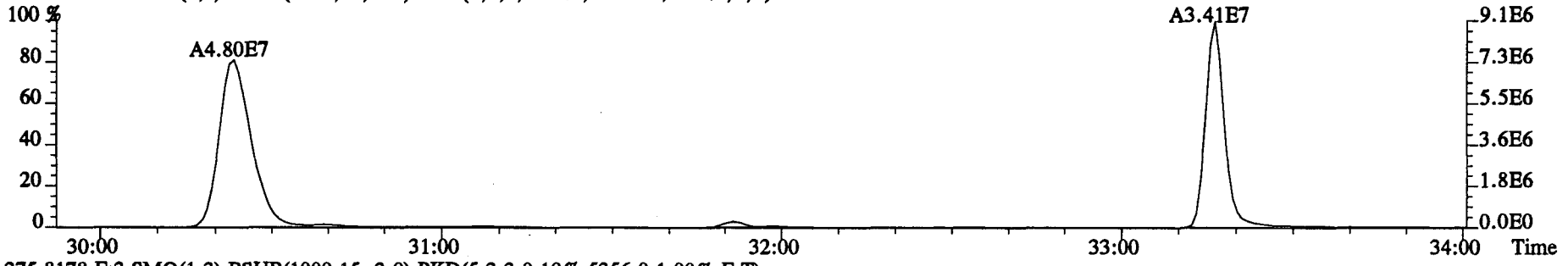


File:17FE104D5 #1-597 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN

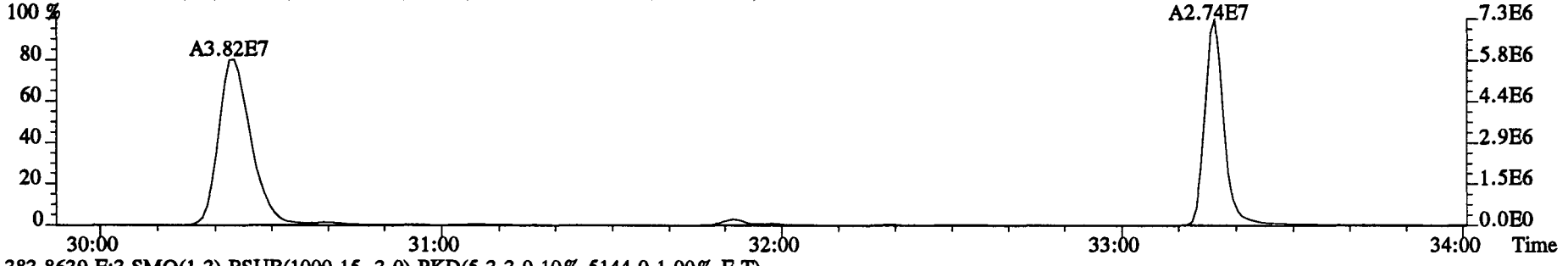


File:17FE104D5 #1-314 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN

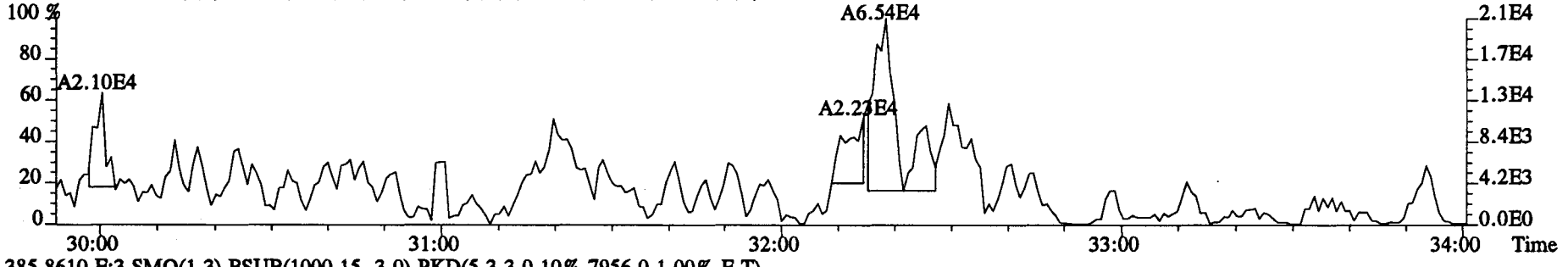
373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11772.0,1.00%,F,T)



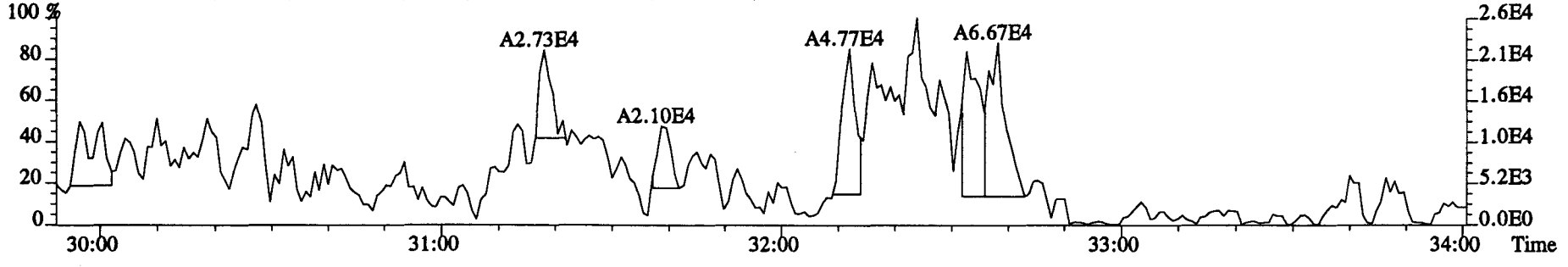
375.8178 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5356.0,1.00%,F,T)



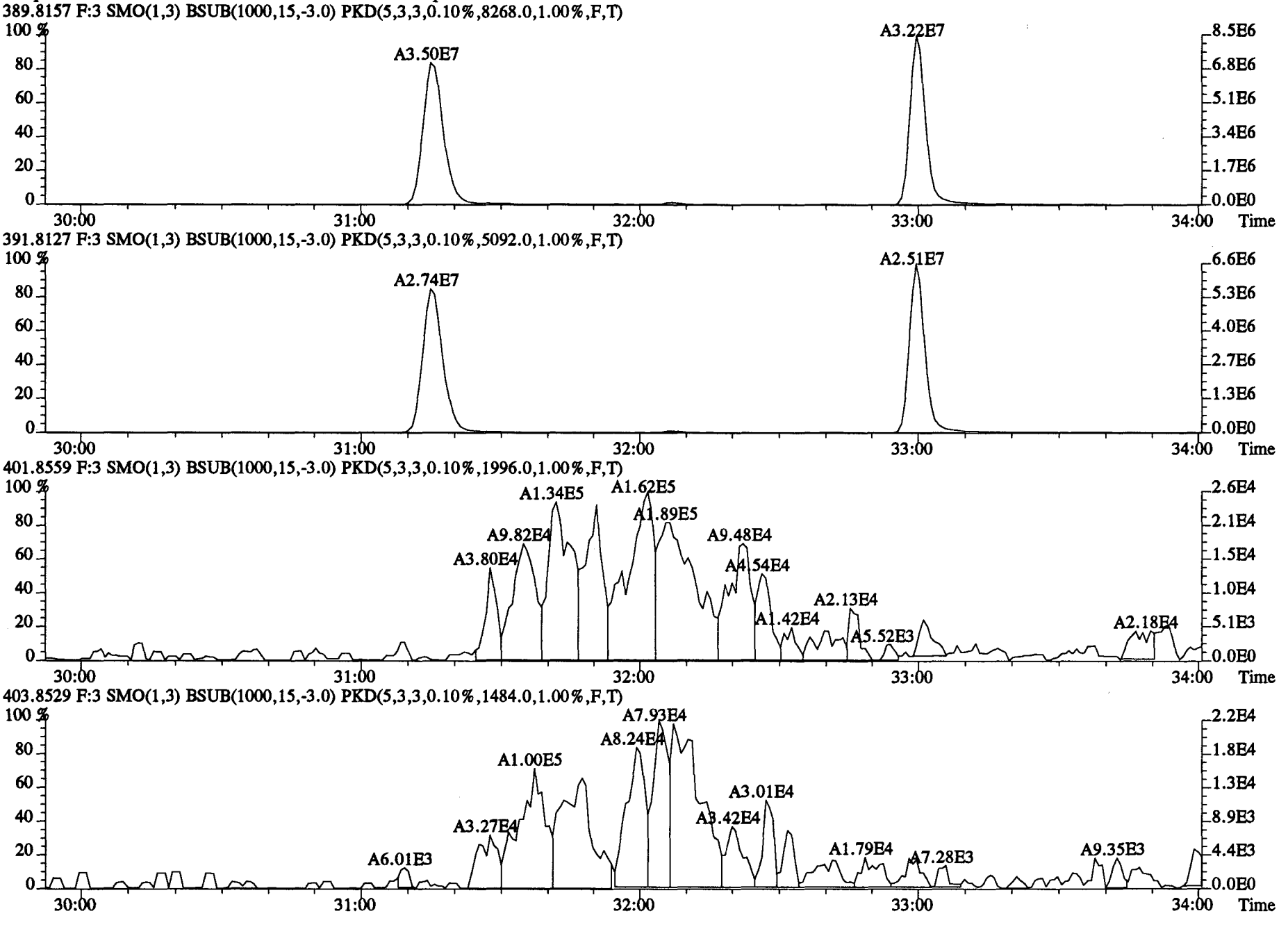
383.8639 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5144.0,1.00%,F,T)



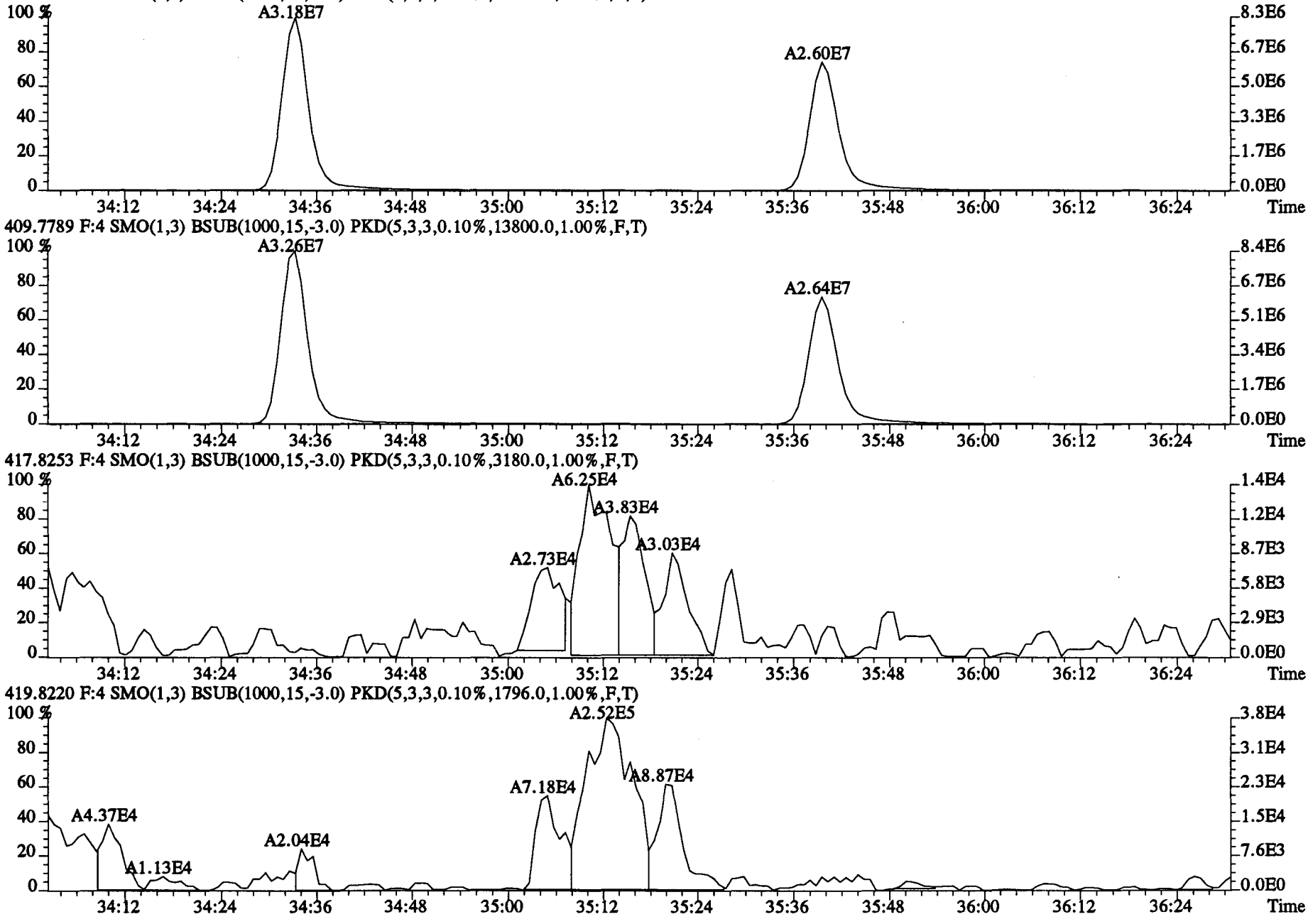
385.8610 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7956.0,1.00%,F,T)



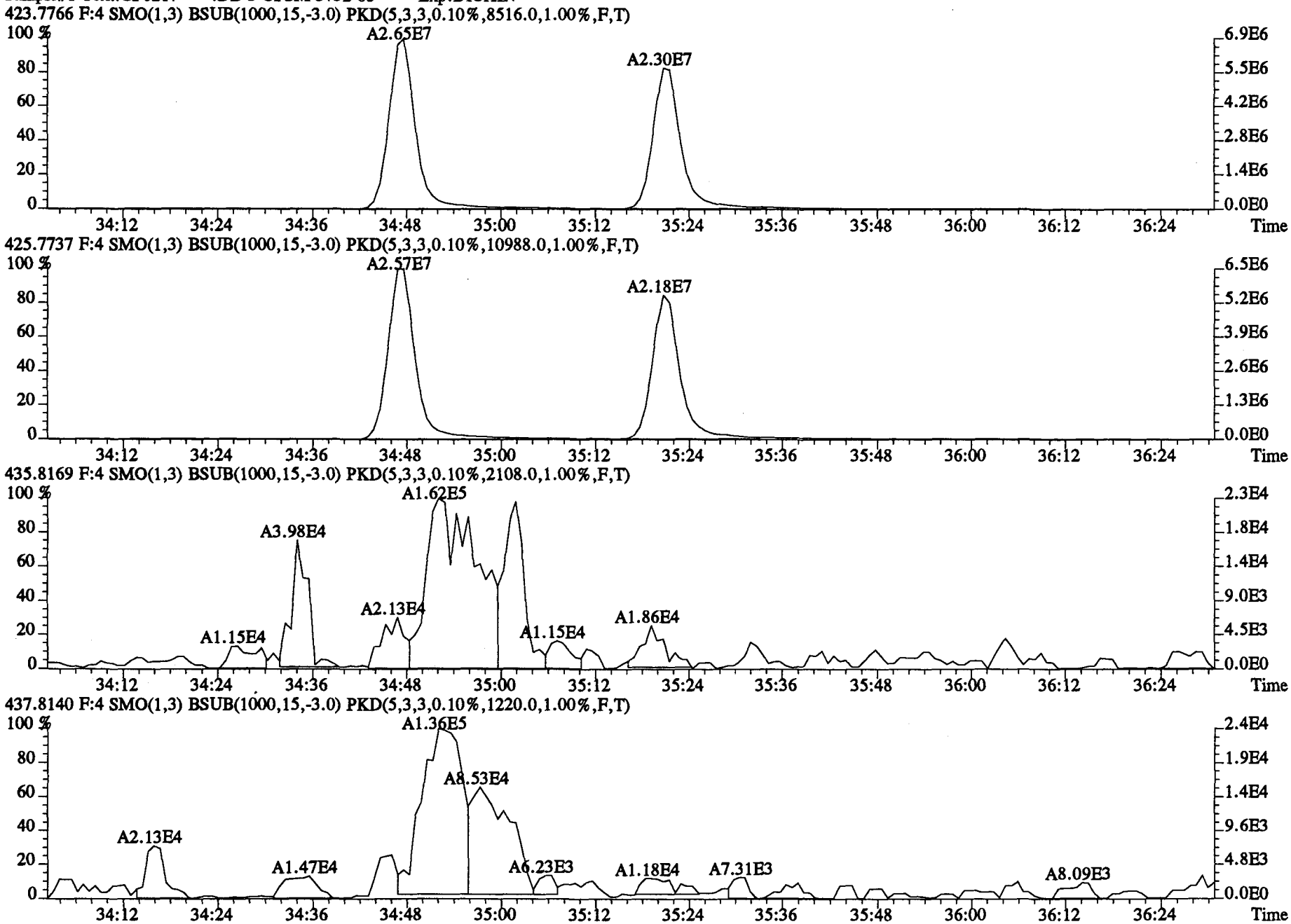
File:17FE104D5 #1-314 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN



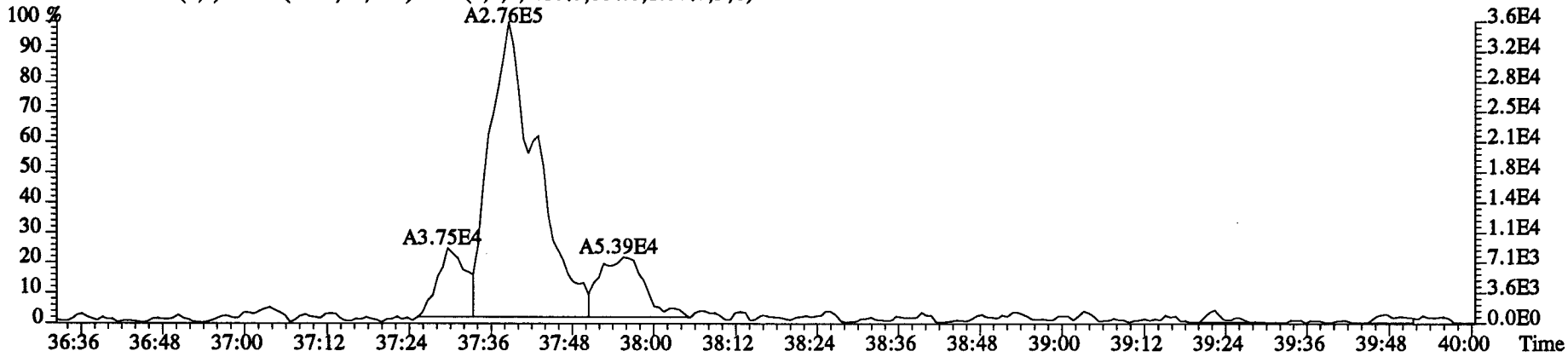
File:17FE104D5 #1-198 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN



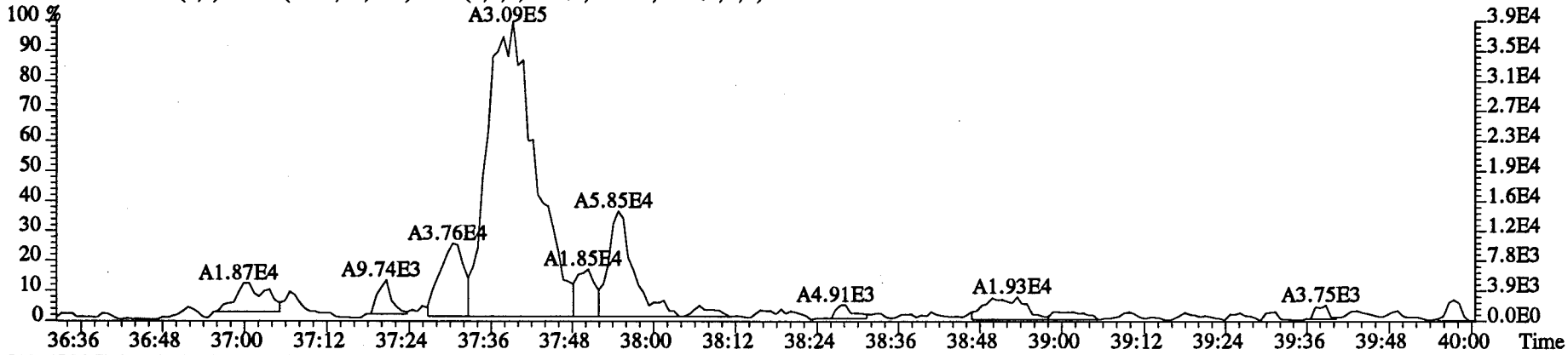
File:17FE104D5 #1-198 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN



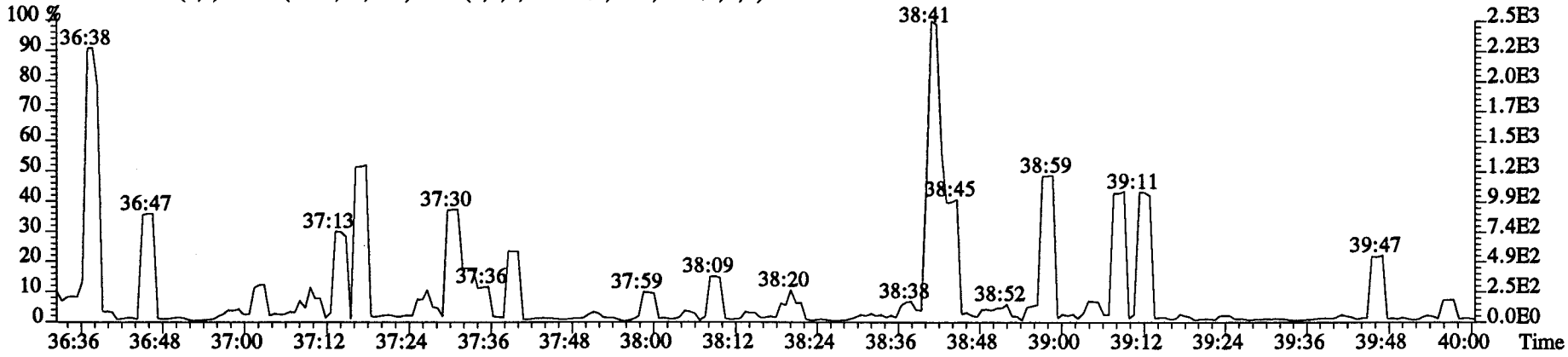
File:17FE104D5 #1-281 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN
441.7428 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,804.0,1.00%,F,T)



443.7399 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1200.0,1.00%,F,T)

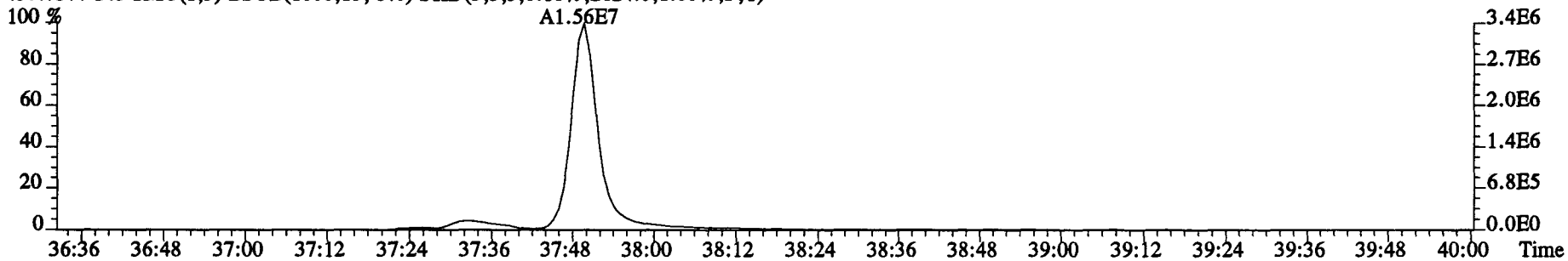


513.6775 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,36.0,1.00%,F,T)

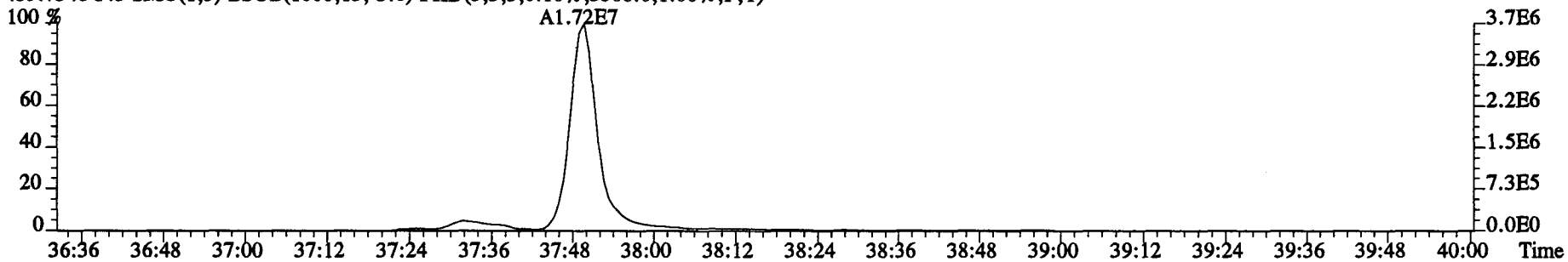


File:17FE104D5 #1-281 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN

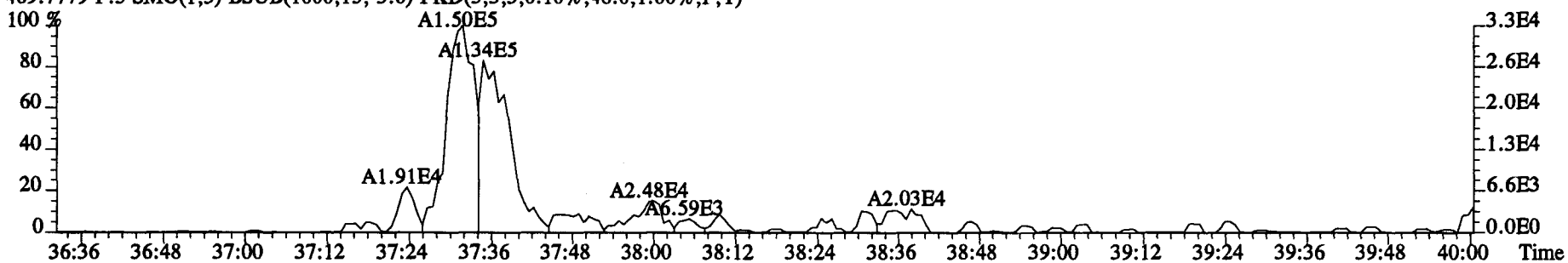
457.7377 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2624.0,1.00%,F,T)



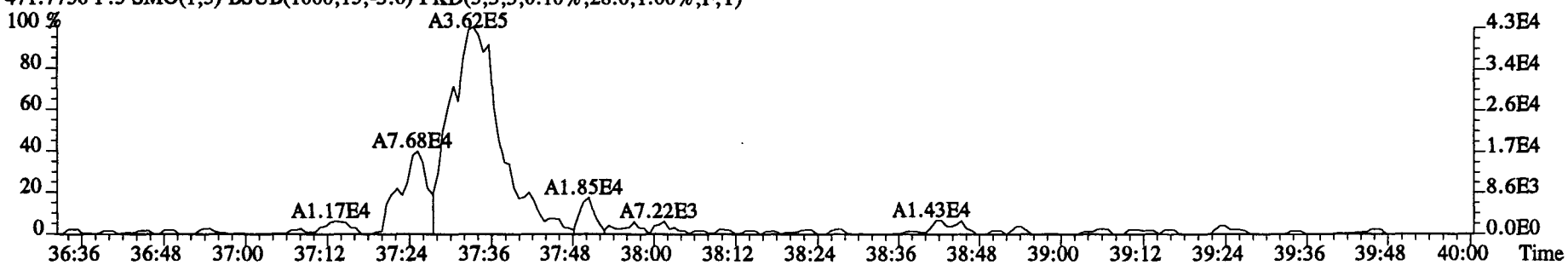
459.7348 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3508.0,1.00%,F,T)



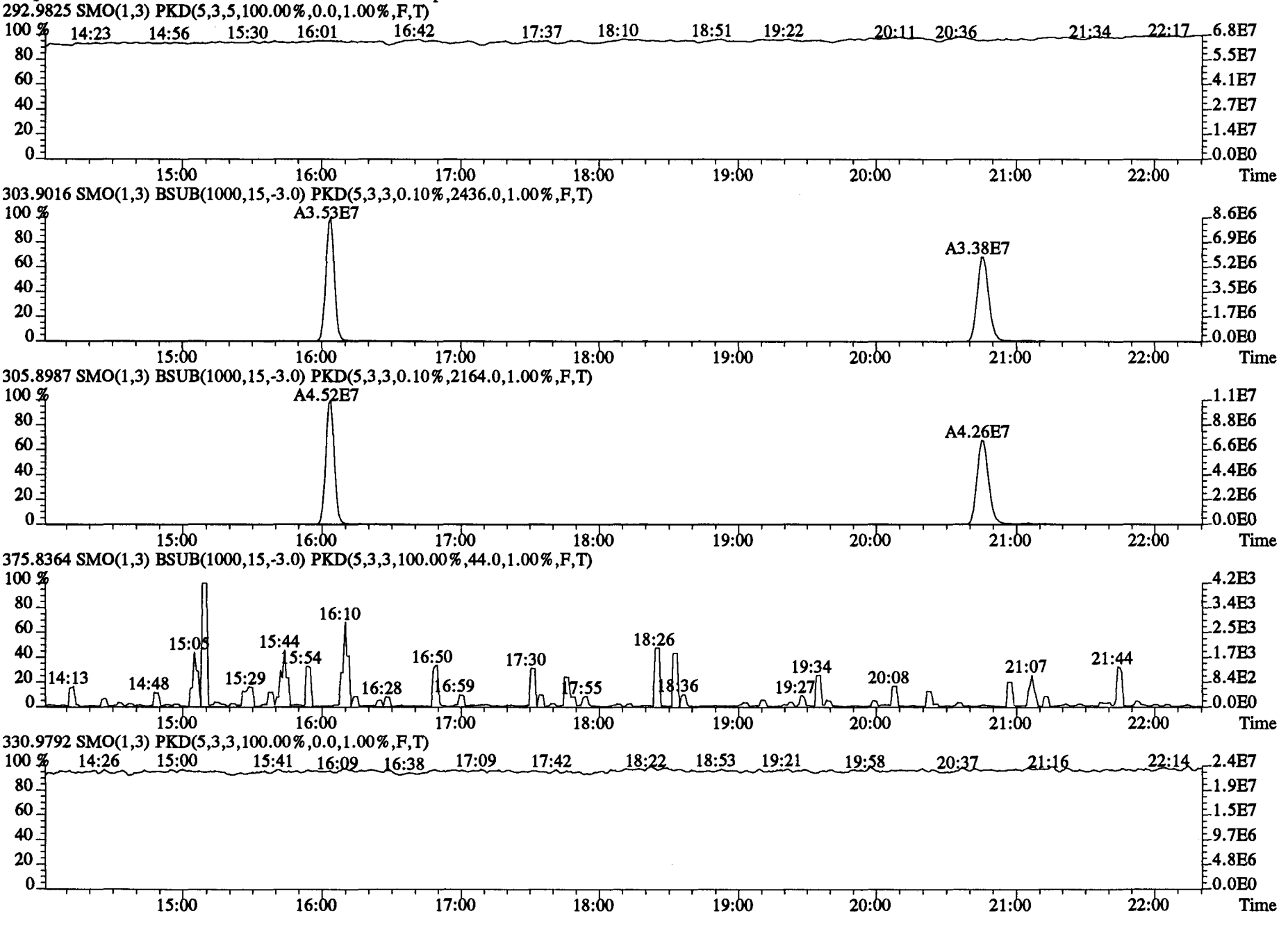
469.7779 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)



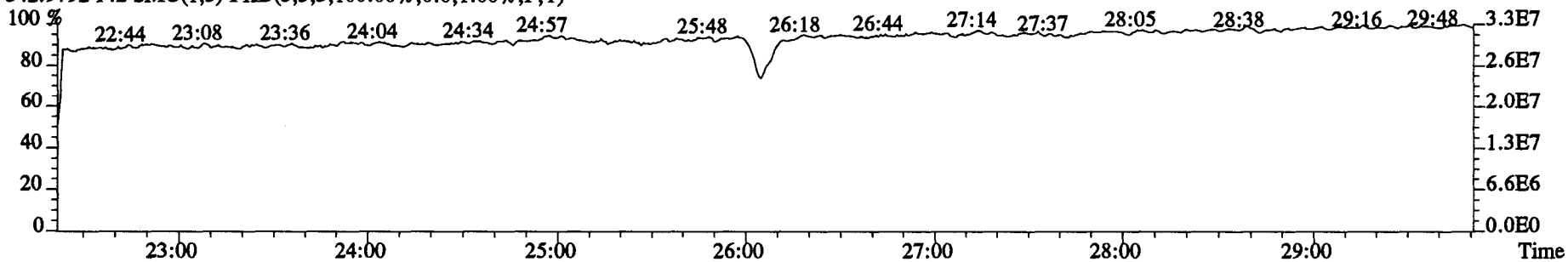
471.7750 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28.0,1.00%,F,T)



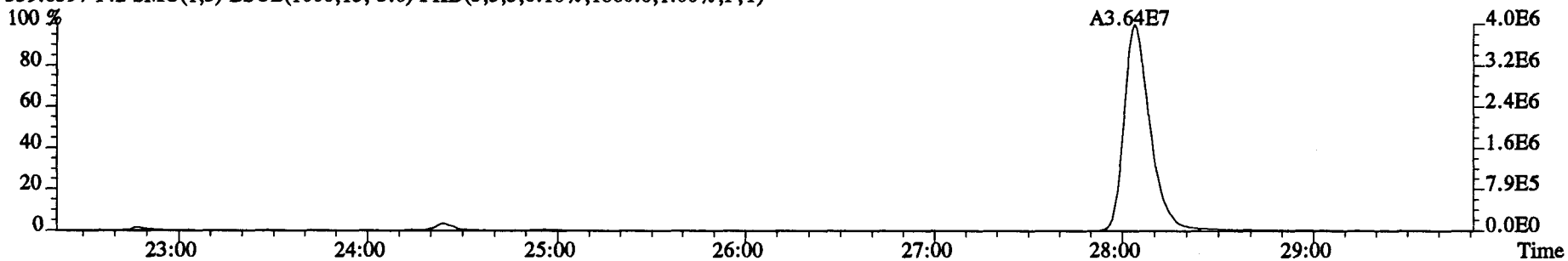
File:17FE104D5 #1-578 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN



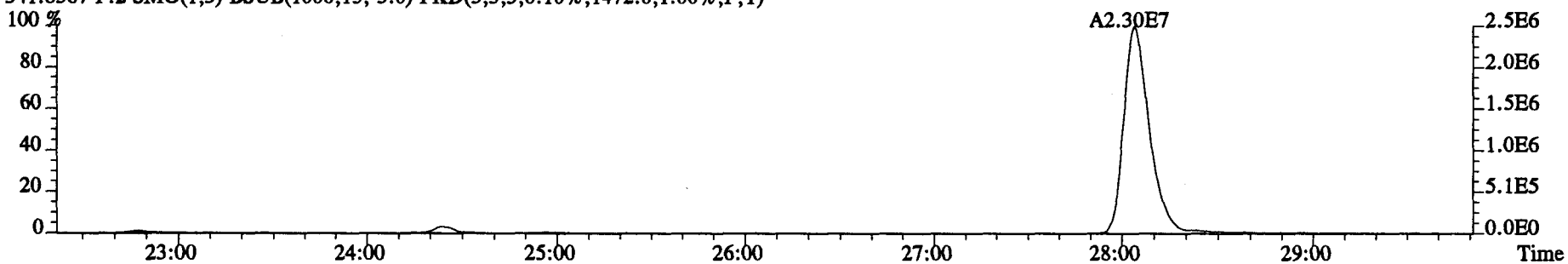
File:17FE104D5 #1-597 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN
342.9792 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



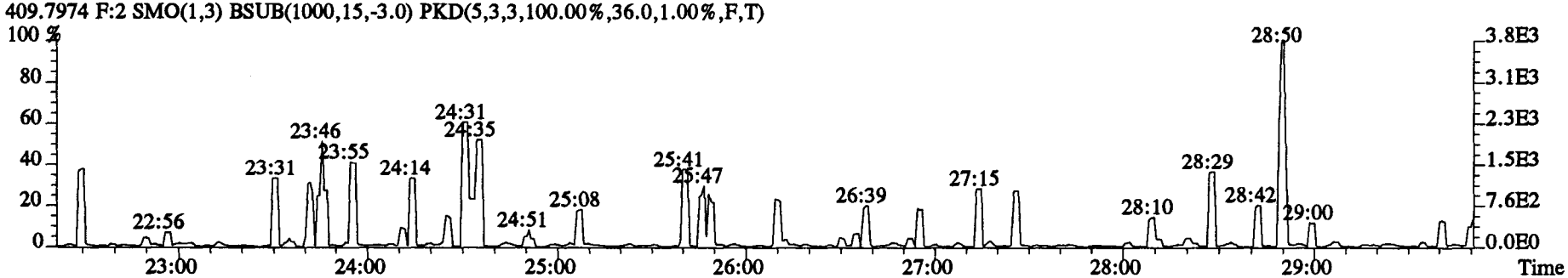
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1860.0,1.00%,F,T)



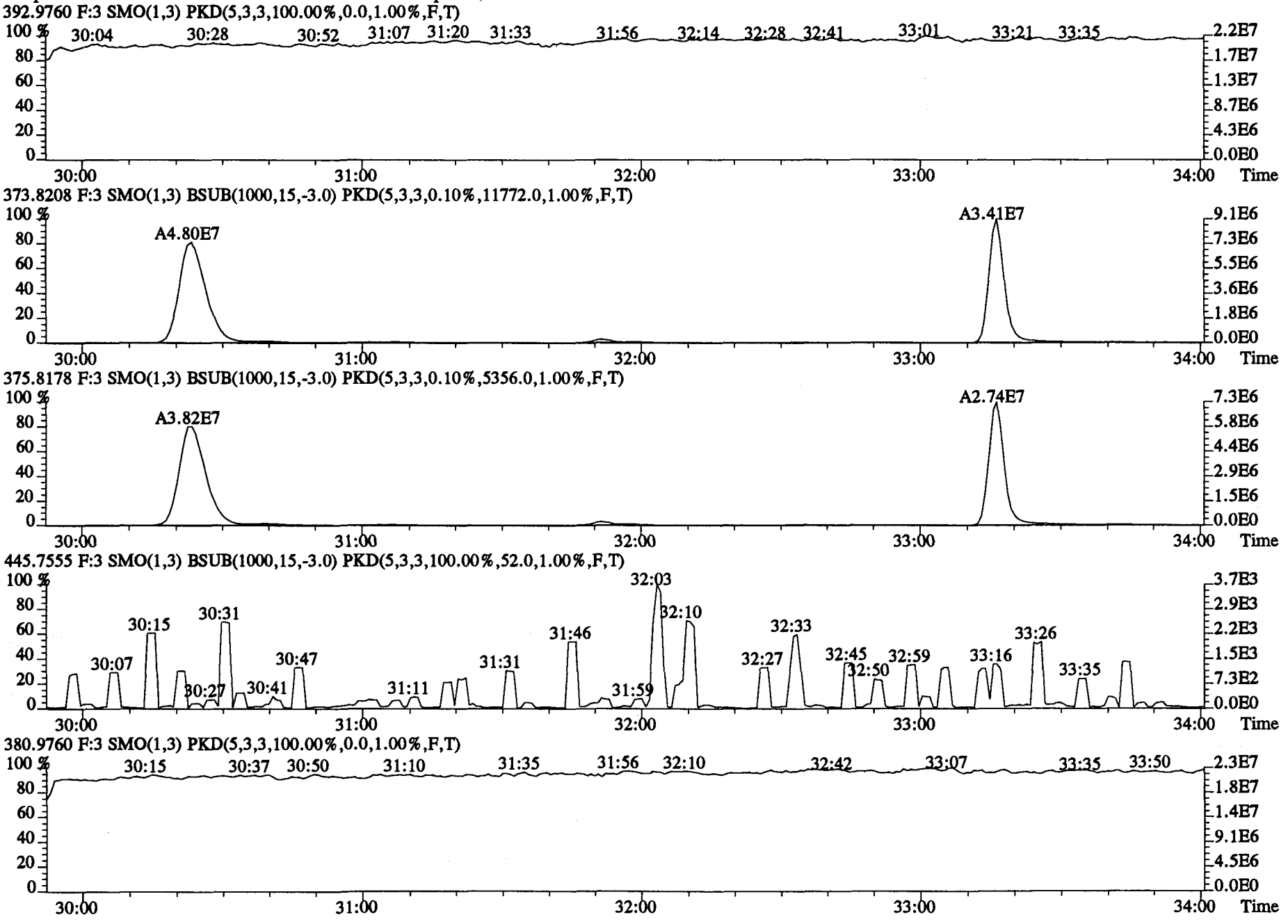
341.8567 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1472.0,1.00%,F,T)



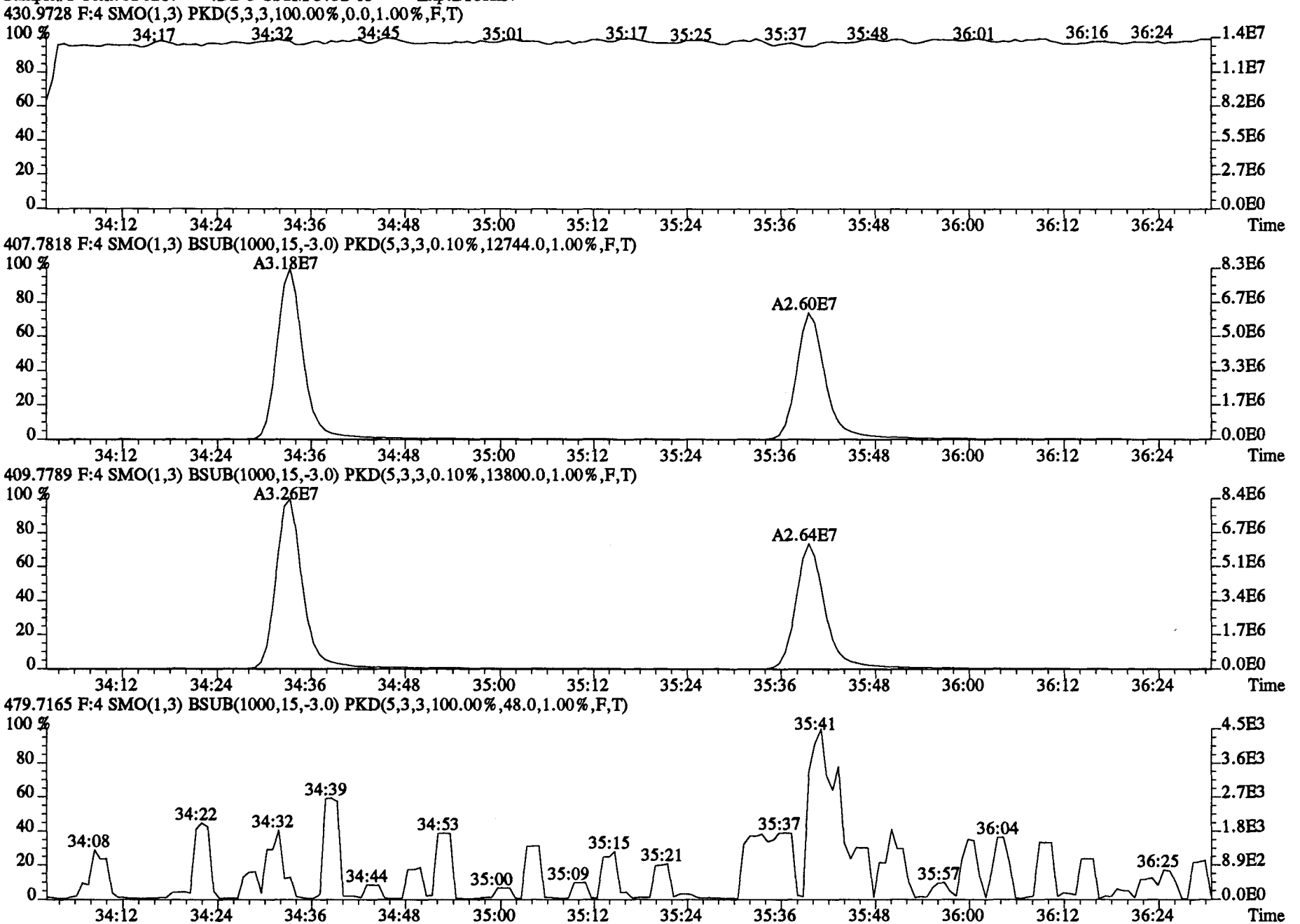
409.7974 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,36.0,1.00%,F,T)



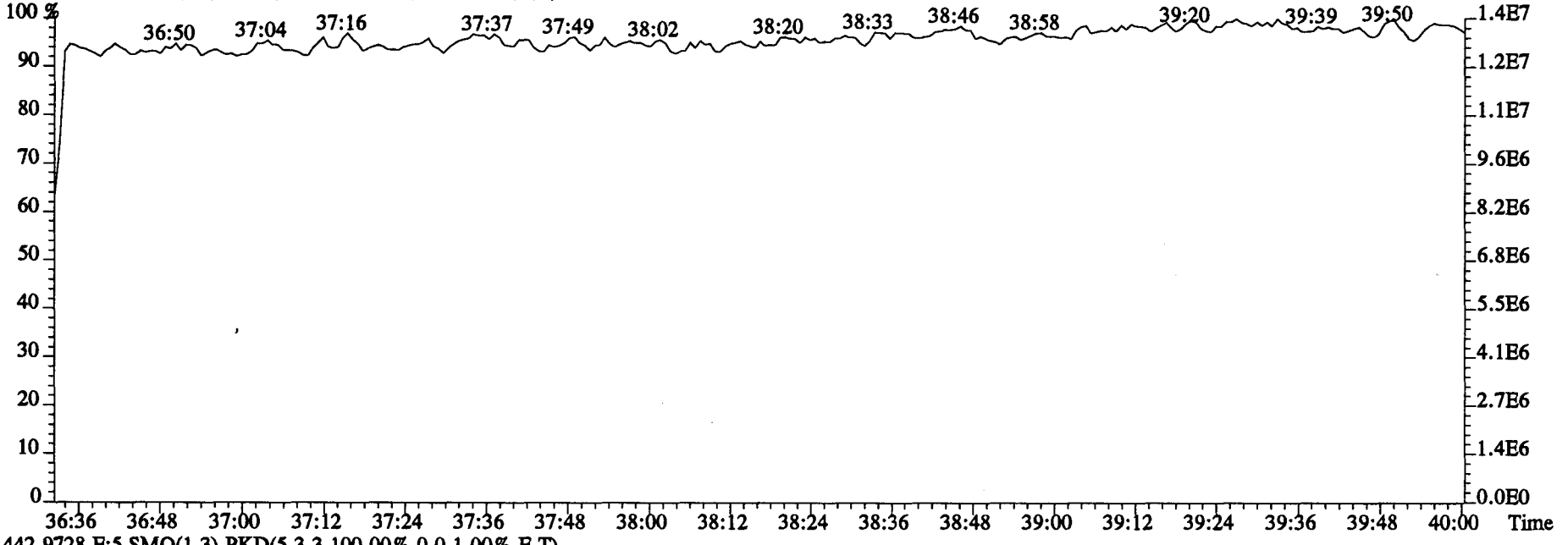
File:17FE104D5 #1-314 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN



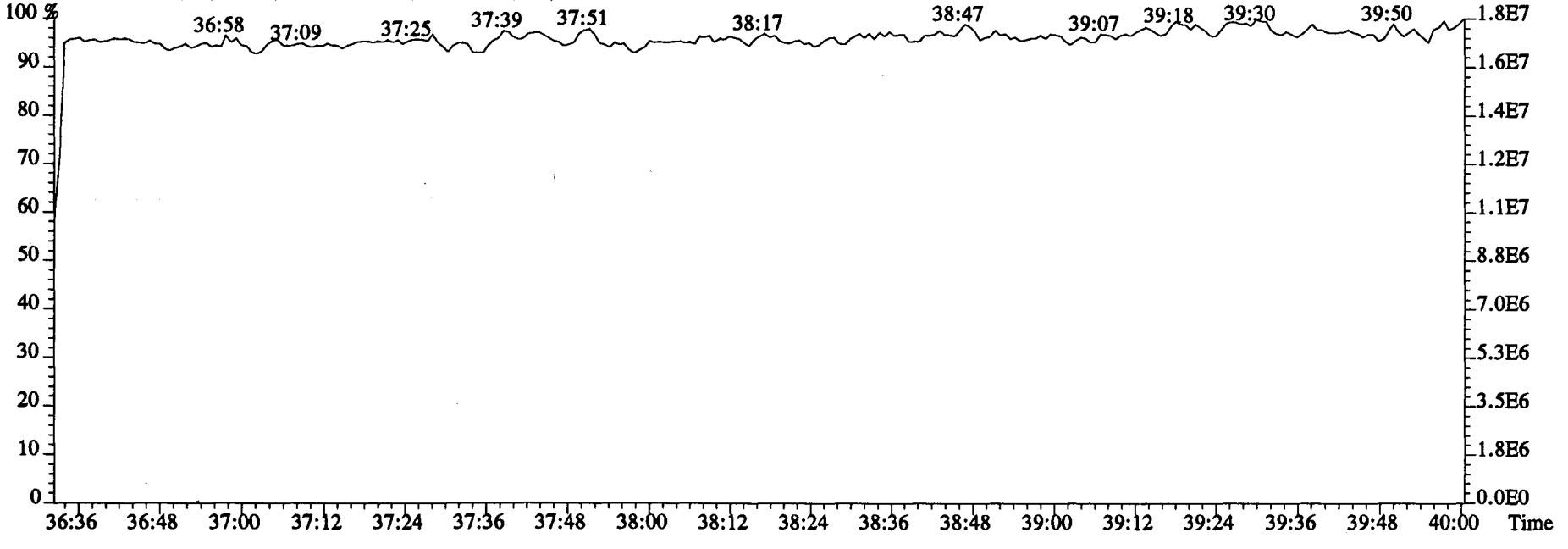
File:17FE104D5 #1-198 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN



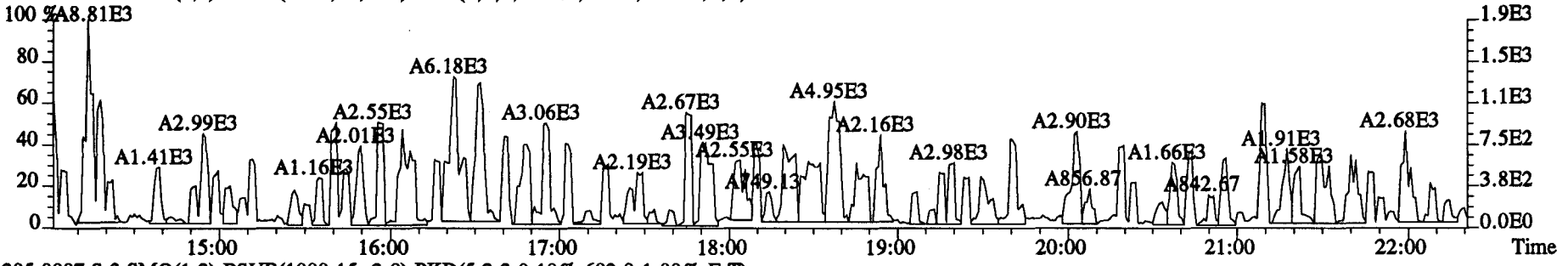
File:17FE104D5 #1-281 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN
454.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



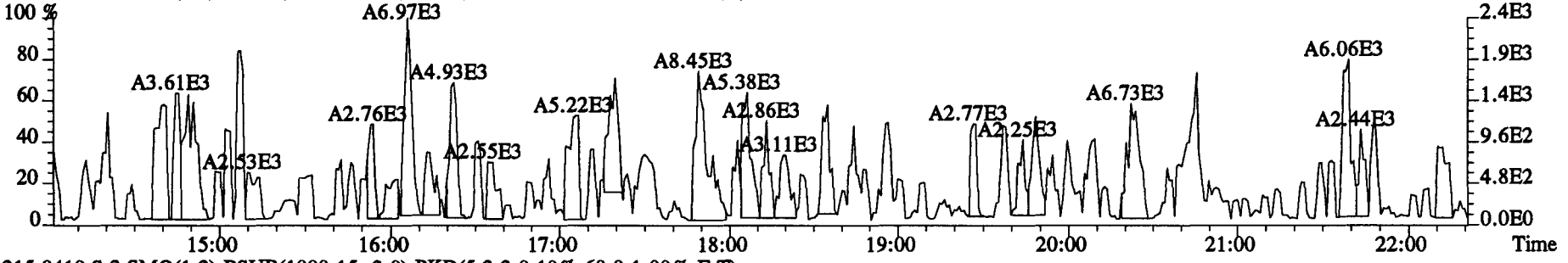
442.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



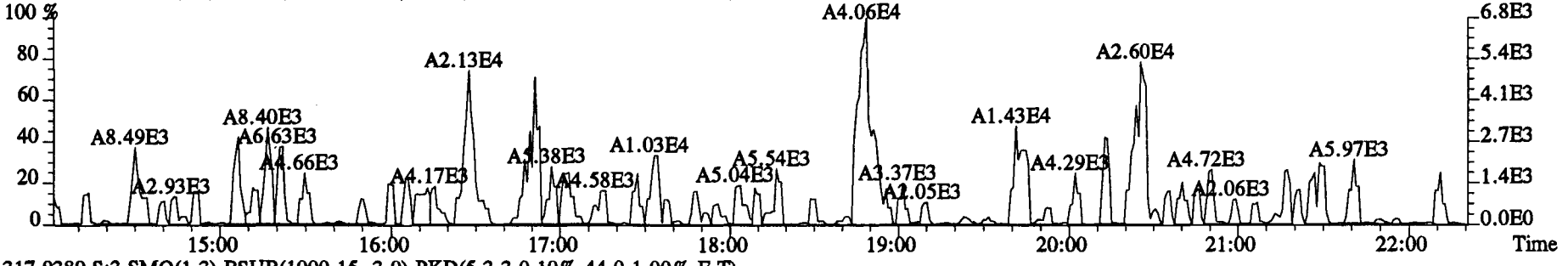
File:17FE104D5 #1-578 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,100.0,1.00%,F,T)



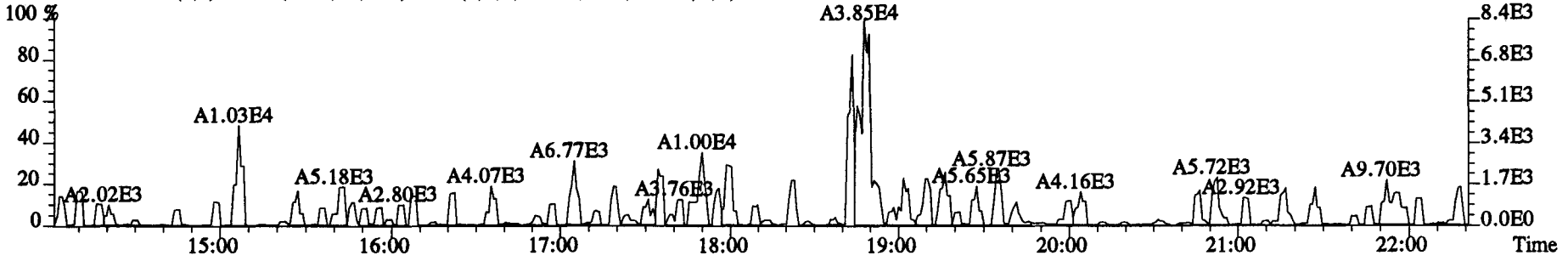
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,692.0,1.00%,F,T)



315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,60.0,1.00%,F,T)

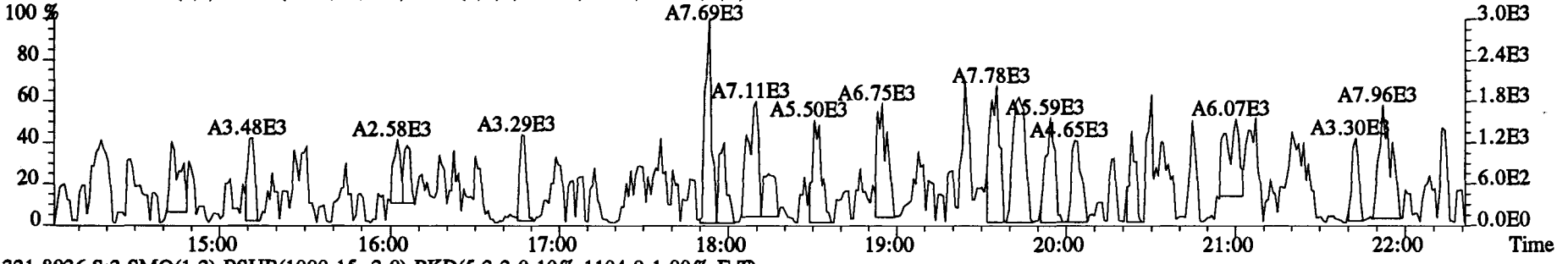


317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44.0,1.00%,F,T)

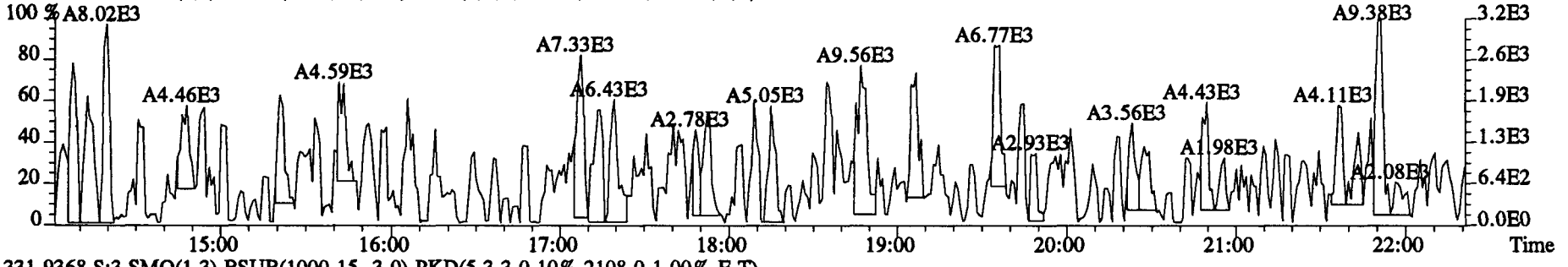


File:17FE104D5 #1-578 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN

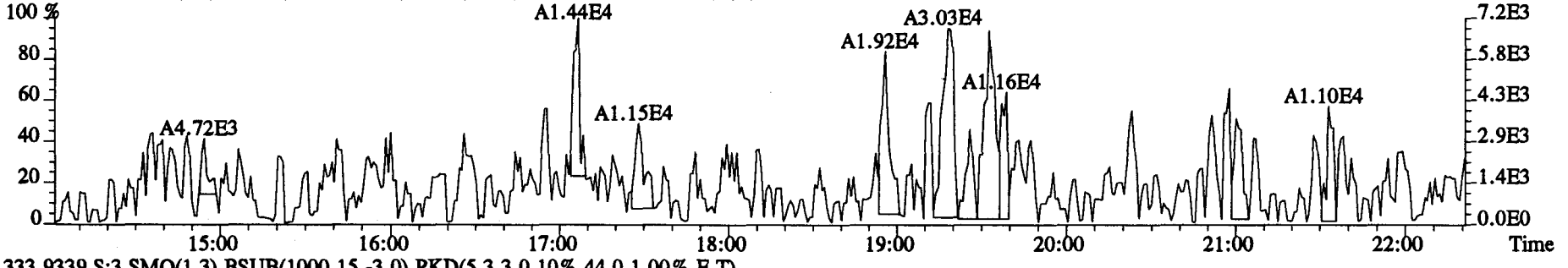
319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,824.0,1.00%,F,T)



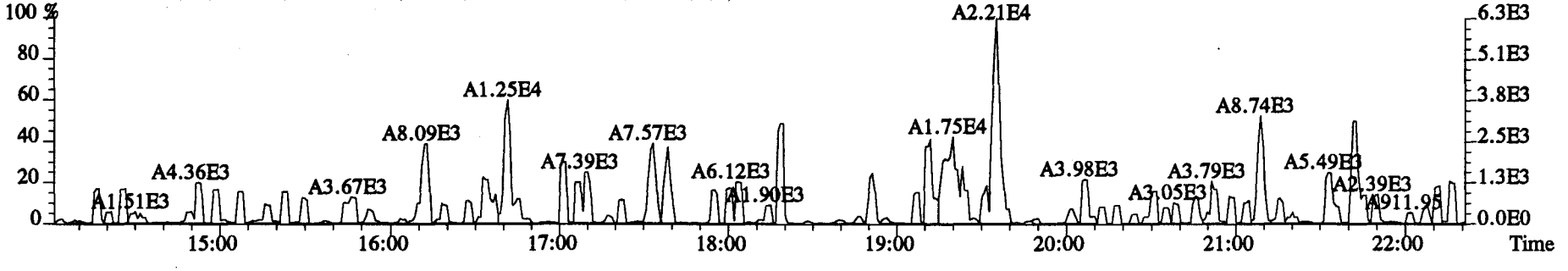
321.8936 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1104.0,1.00%,F,T)



331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2108.0,1.00%,F,T)

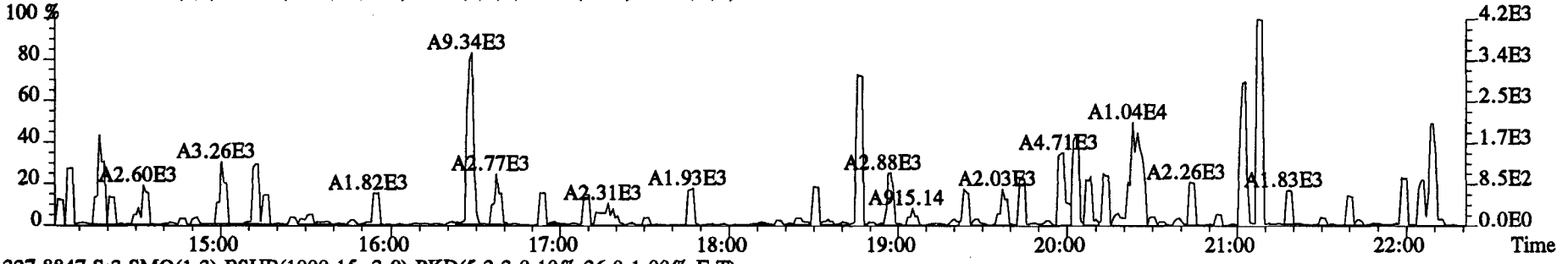


333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44.0,1.00%,F,T)

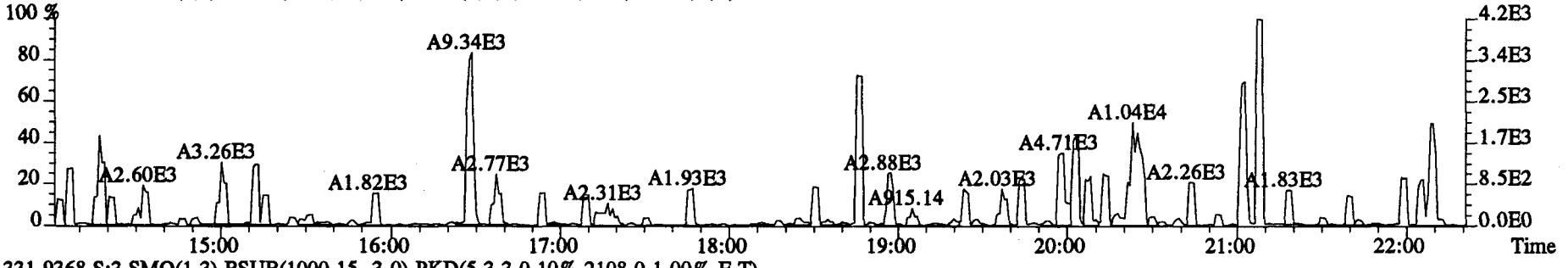


File:17FE104D5 #1-578 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN

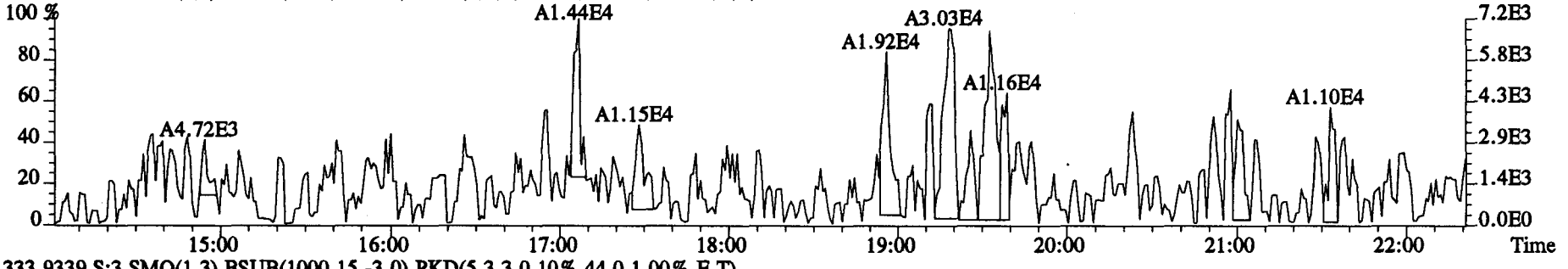
327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,36.0,1.00%,F,T)



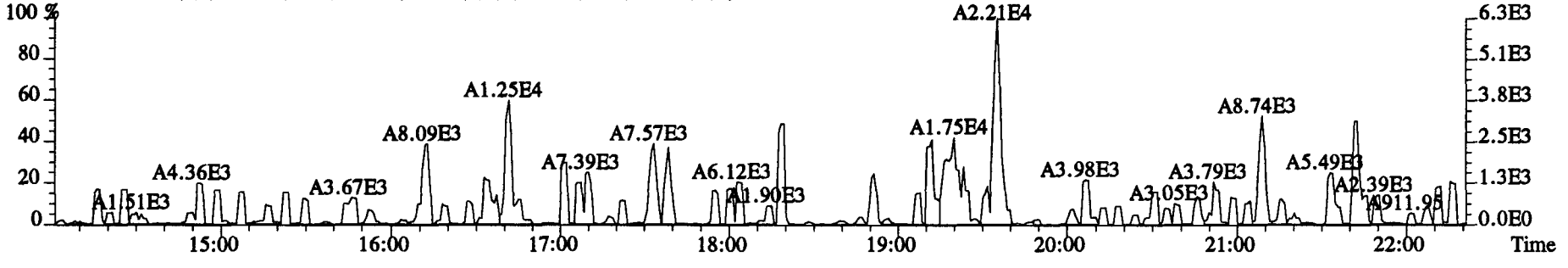
327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,36.0,1.00%,F,T)



331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2108.0,1.00%,F,T)

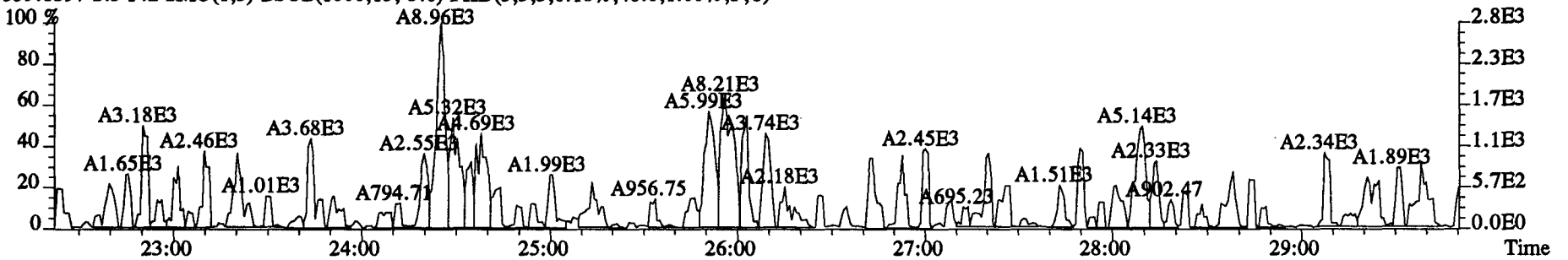


333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44.0,1.00%,F,T)

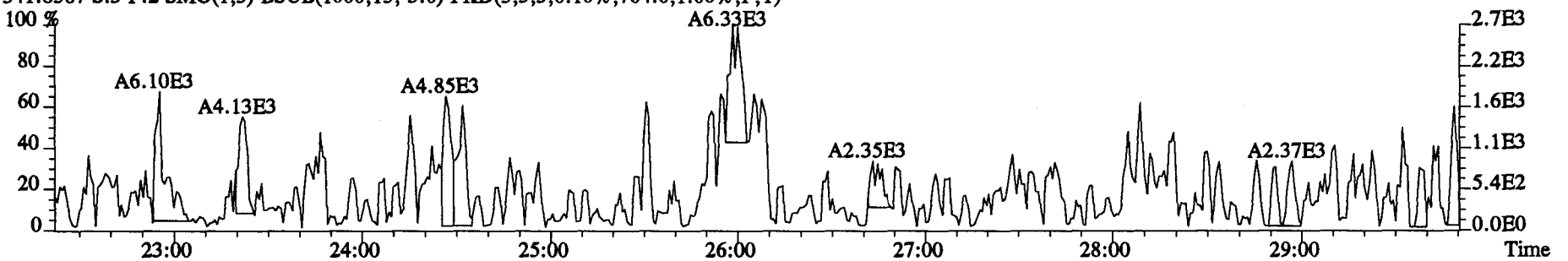


File:17FE104D5 #1-596 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN

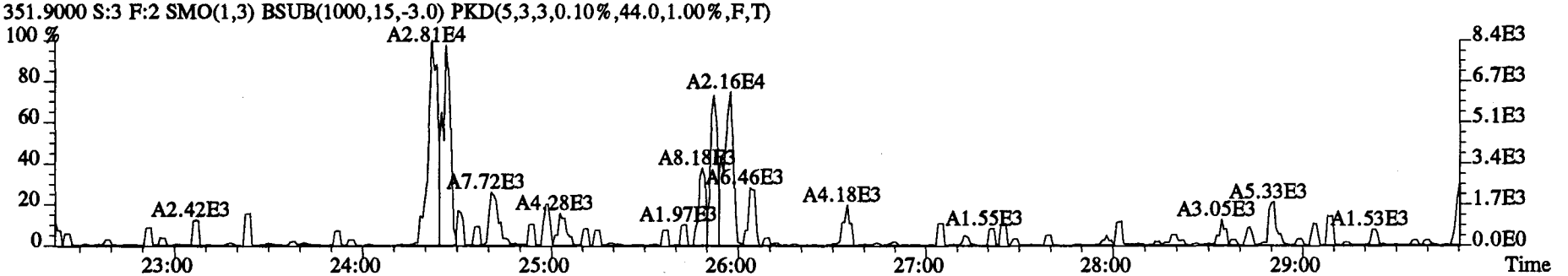
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)



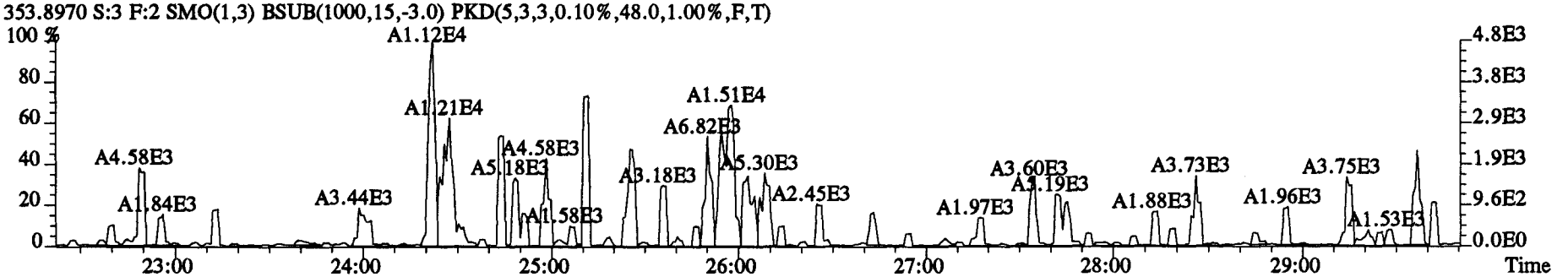
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,704.0,1.00%,F,T)



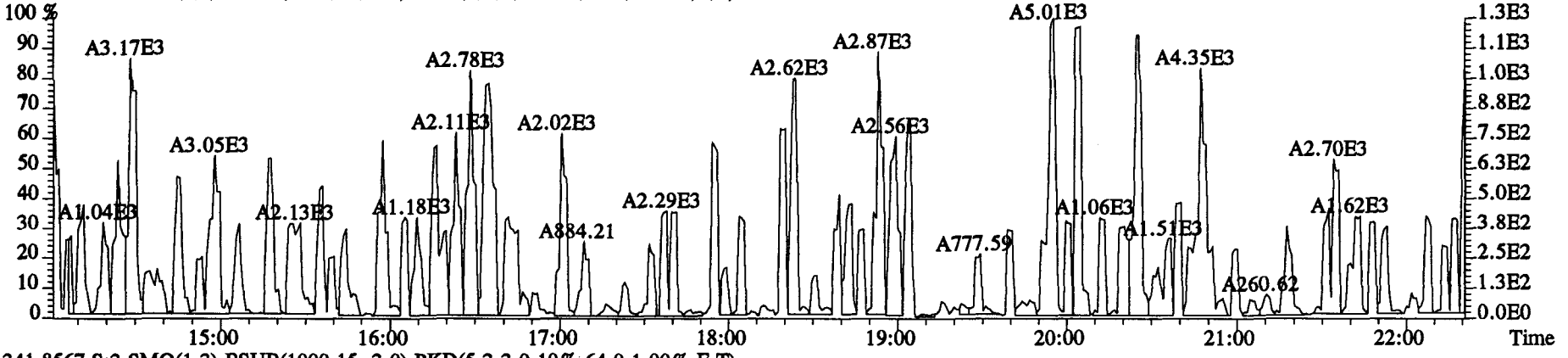
351.9000 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44.0,1.00%,F,T)



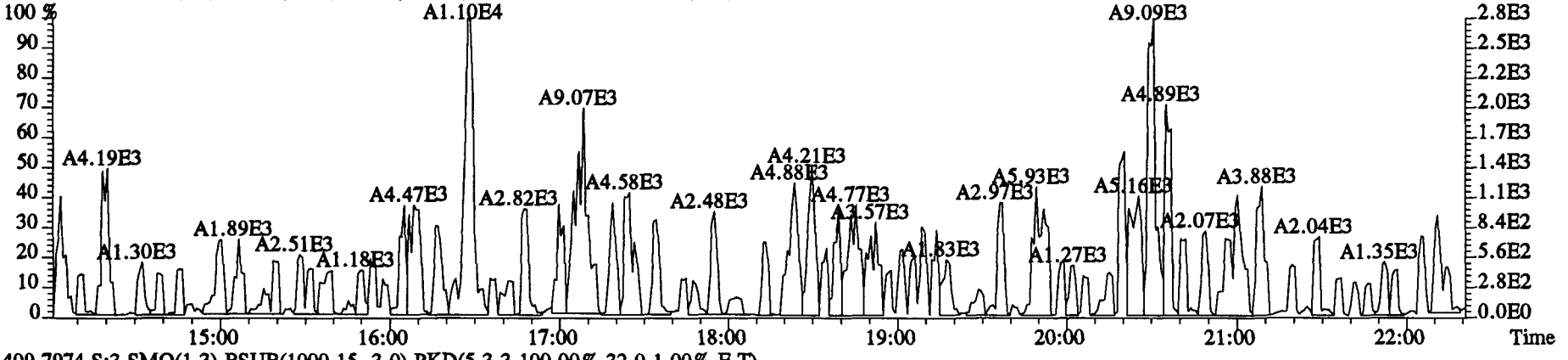
353.8970 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)



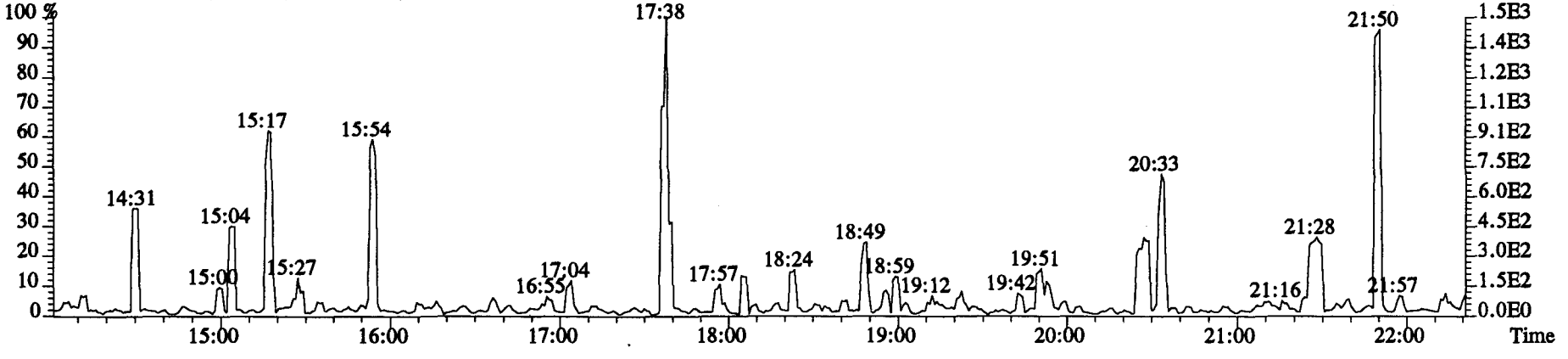
File:17FE104D5 #1-578 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN
339.8597 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32.0,1.00%,F,T)



341.8567 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T)

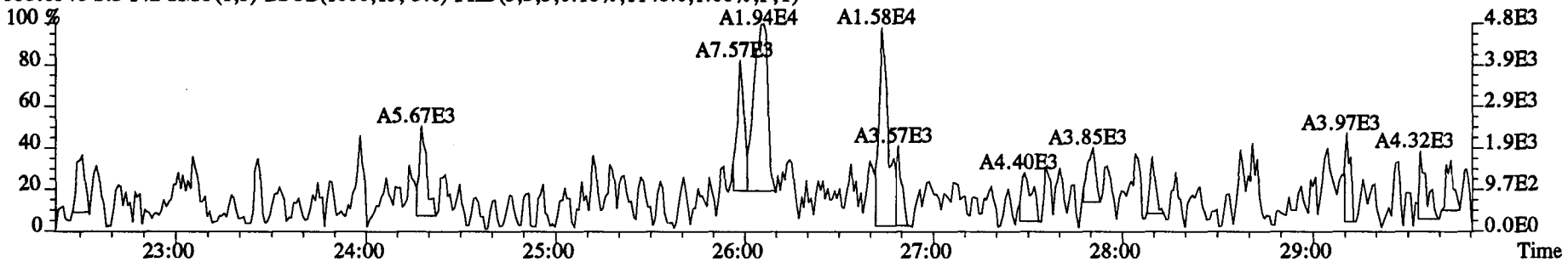


409.7974 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,32.0,1.00%,F,T)

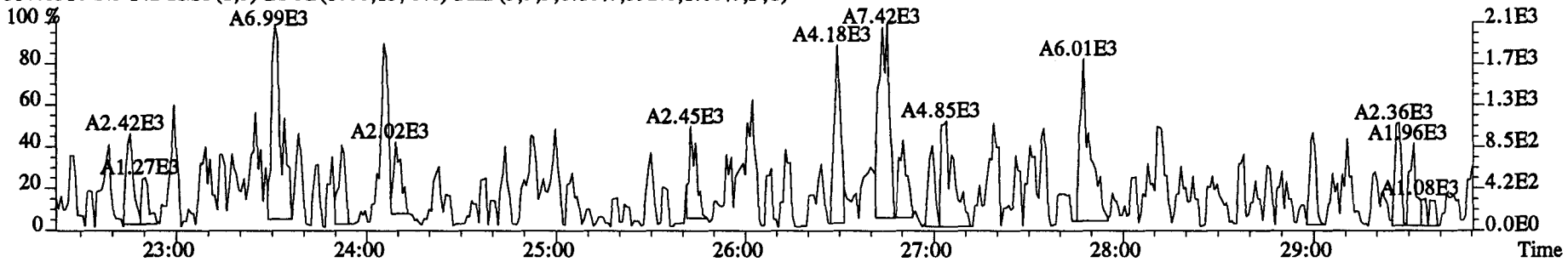


File:17FE104D5 #1-596 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN

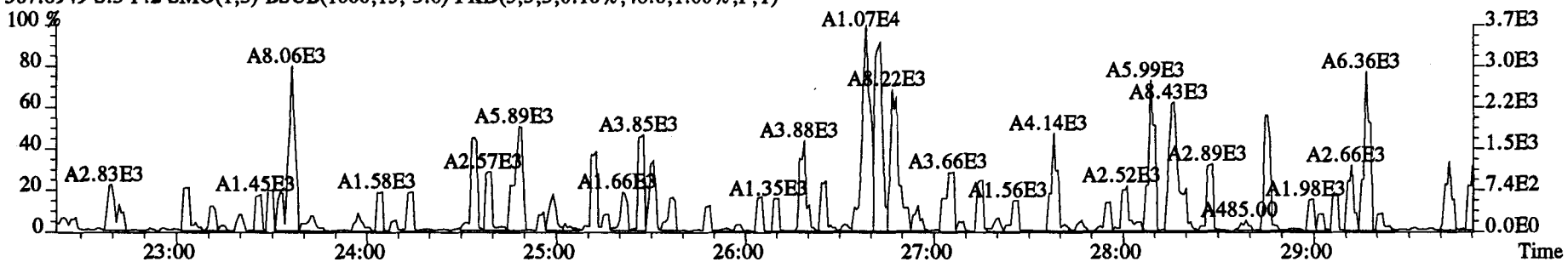
355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1148.0,1.00%,F,T)



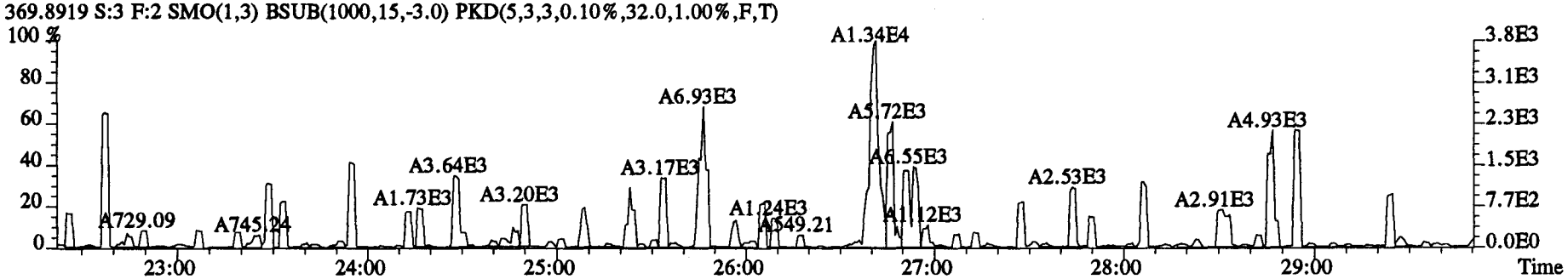
357.8516 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,592.0,1.00%,F,T)



367.8949 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)

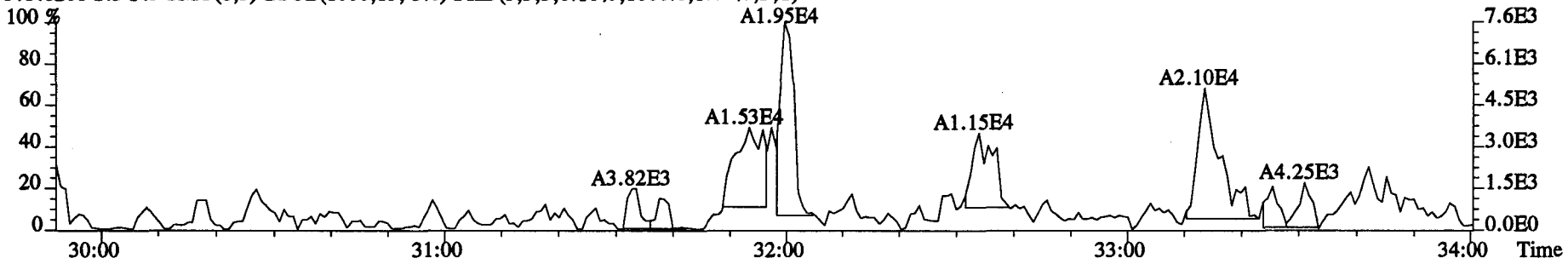


369.8919 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32.0,1.00%,F,T)

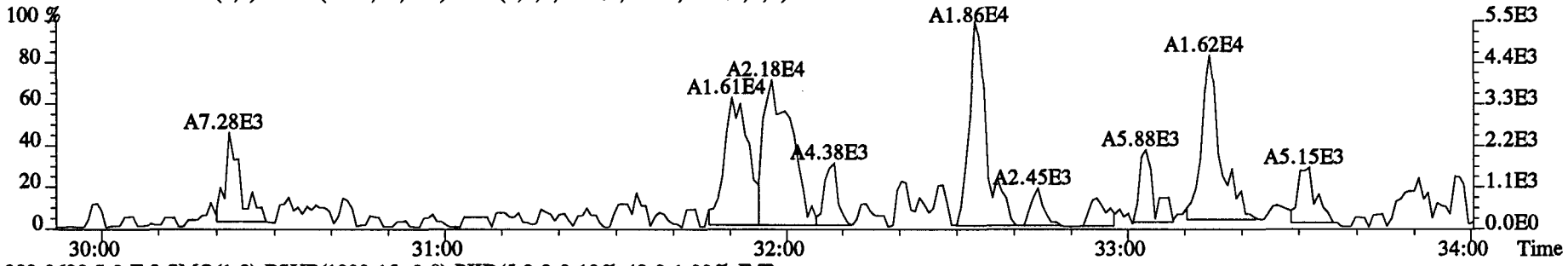


File:17FE104D5 #1-314 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN

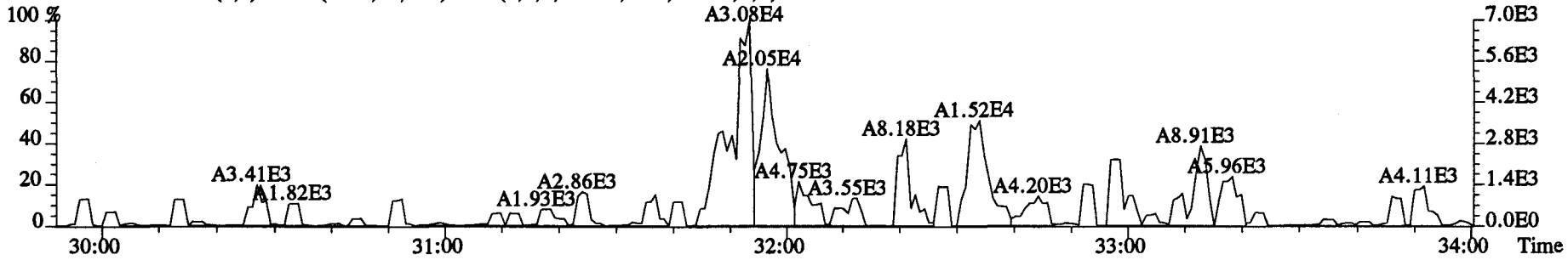
373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1000.0,1.00%,F,T)



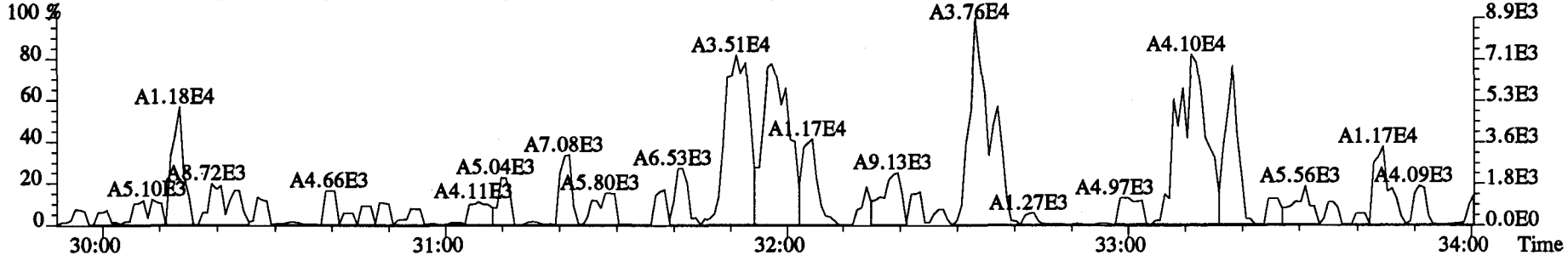
375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,636.0,1.00%,F,T)



383.8639 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)

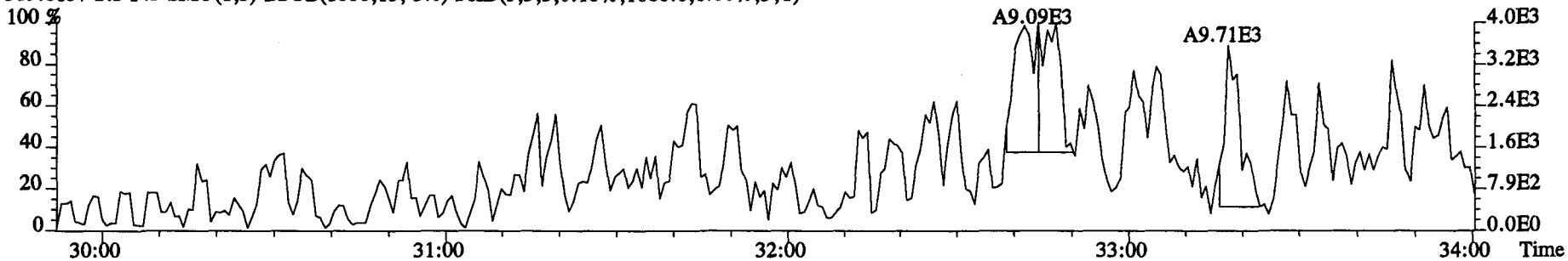


385.8610 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)

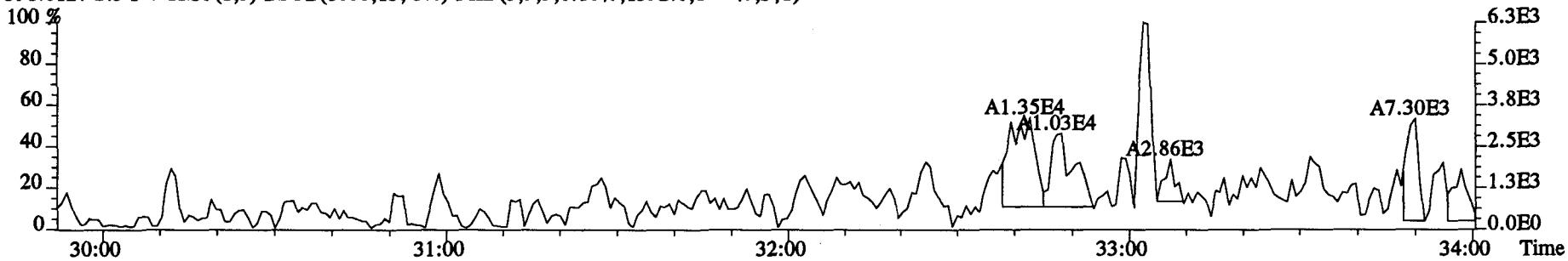


File:17FE104D5 #1-314 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN

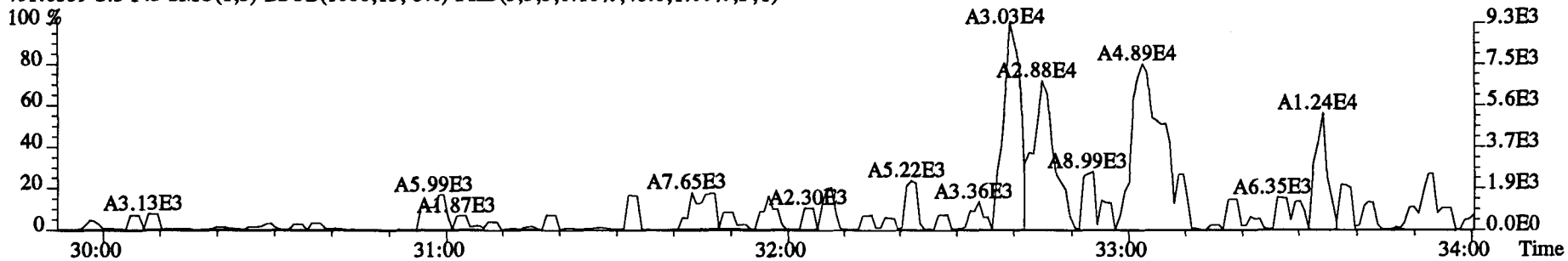
389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1660.0,1.00%,F,T)



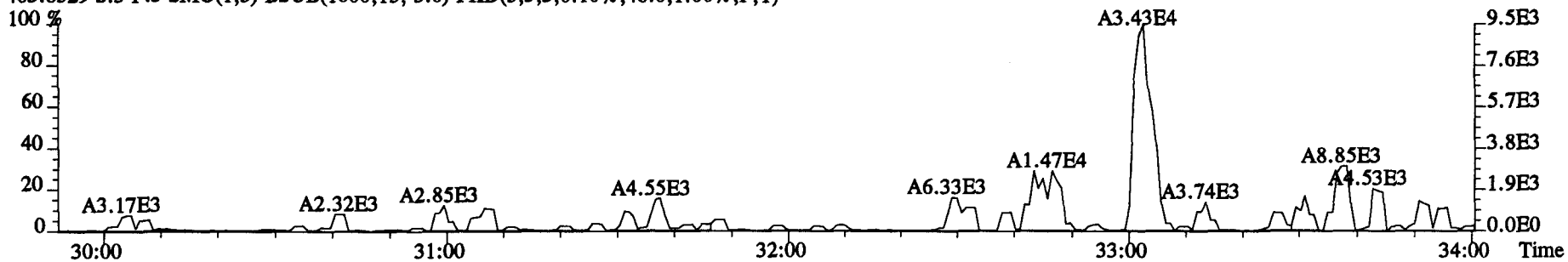
391.8127 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1392.0,1.00%,F,T)



401.8559 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)

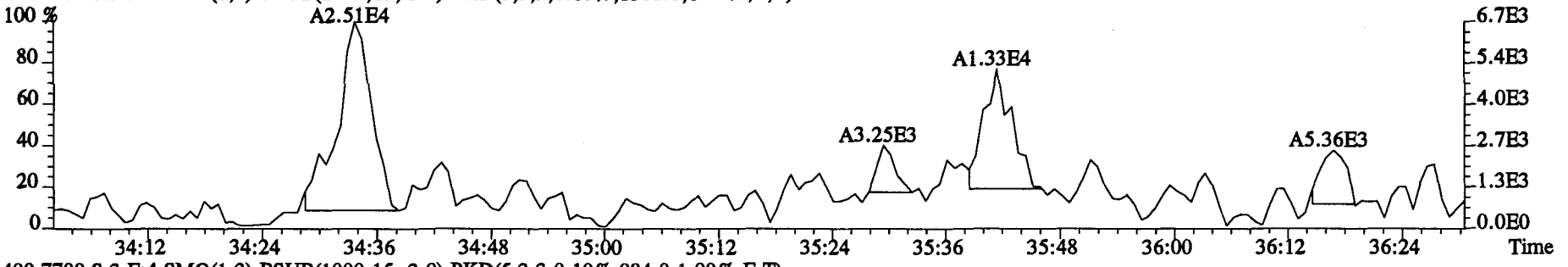


403.8529 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)

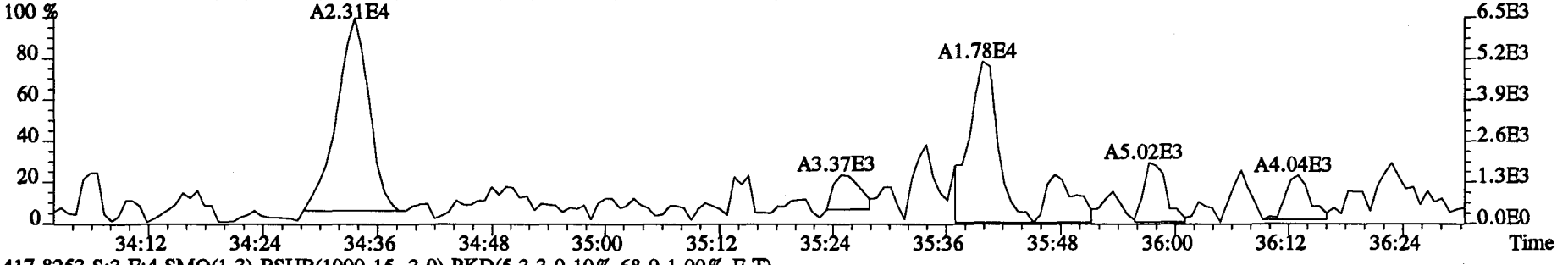


File:17FE104D5 #1-198 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN

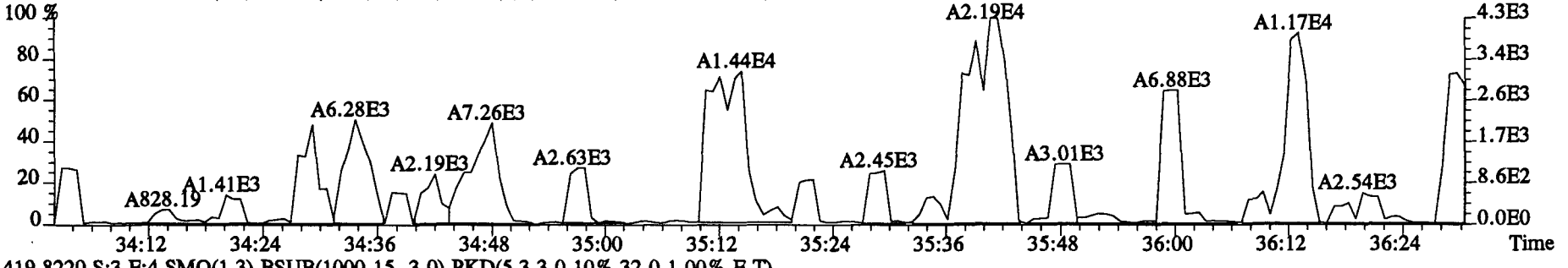
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1508.0,1.00%,F,T)



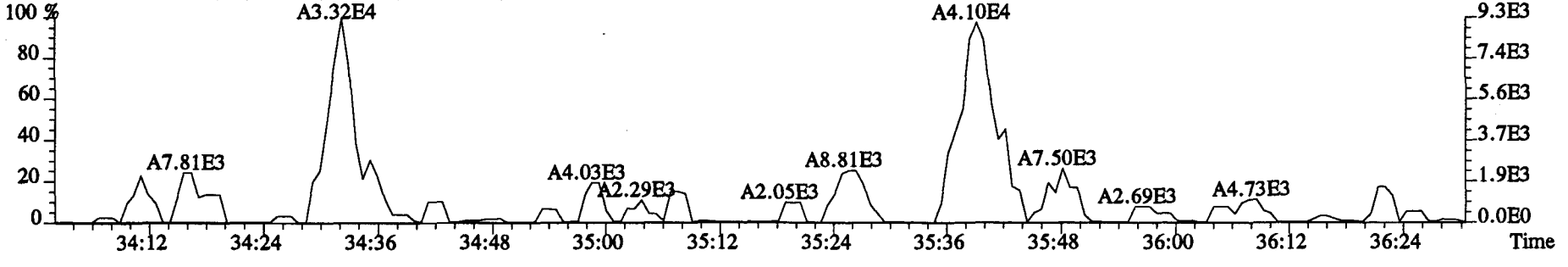
409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,984.0,1.00%,F,T)



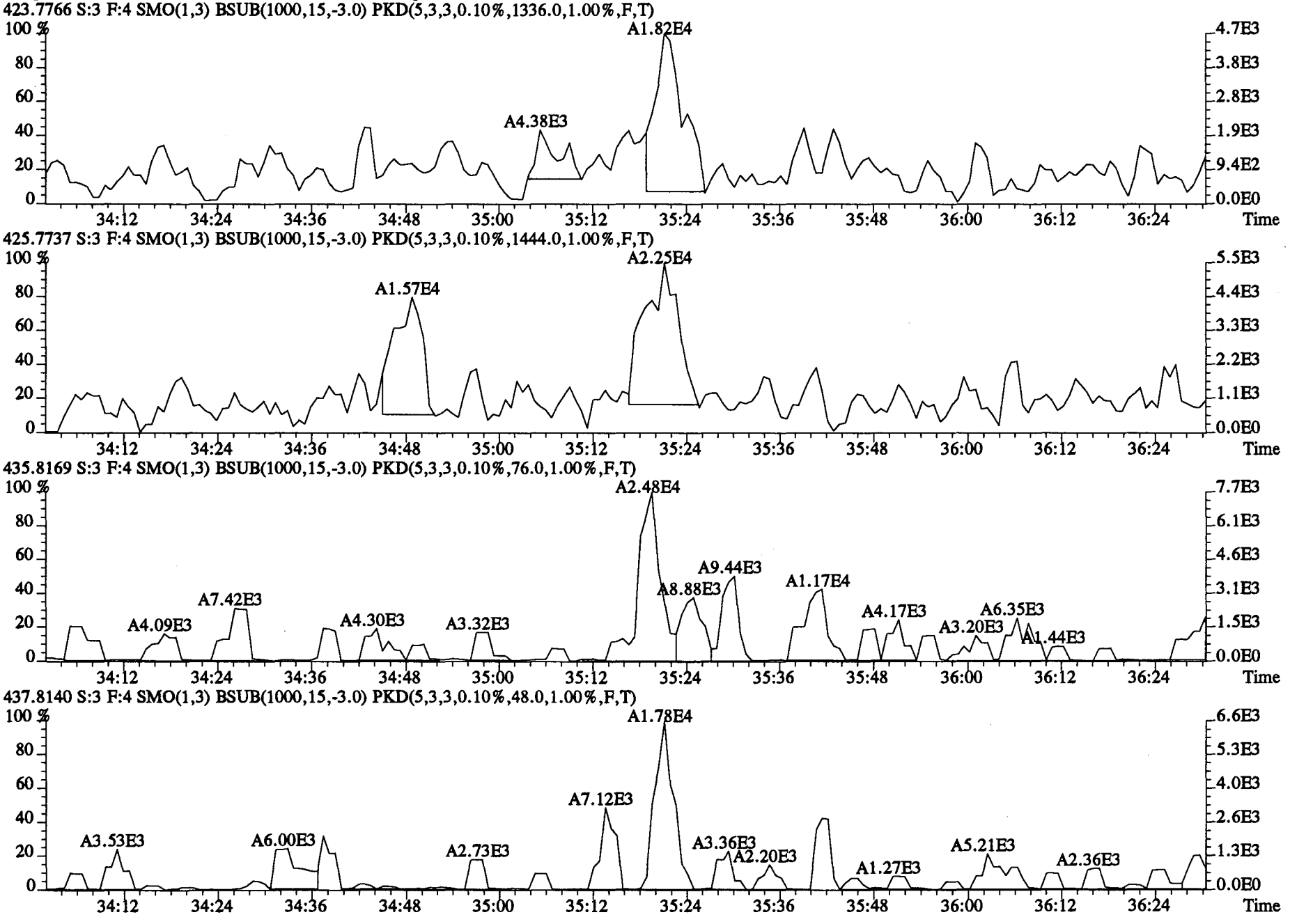
417.8253 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68.0,1.00%,F,T)



419.8220 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32.0,1.00%,F,T)

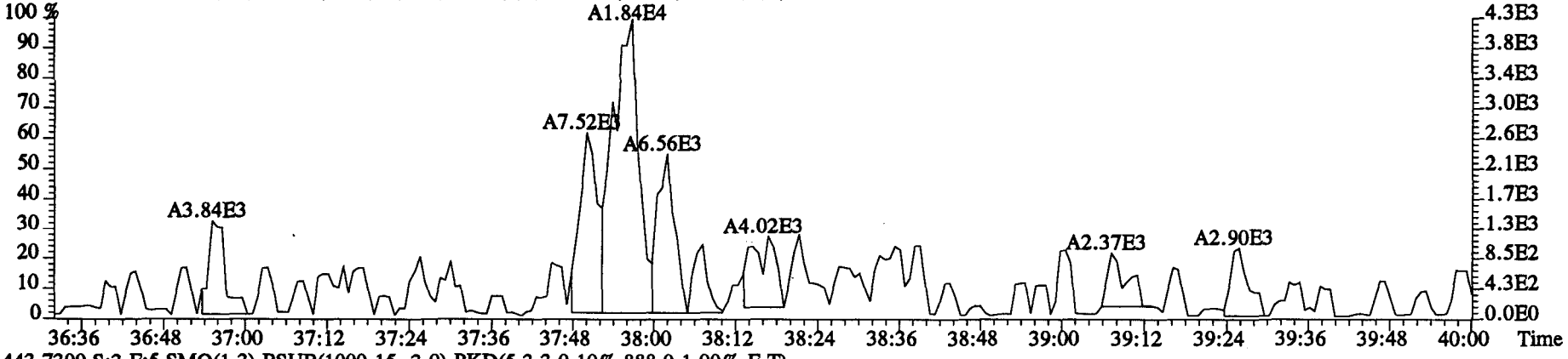


File:17FE104D5 #1-198 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN

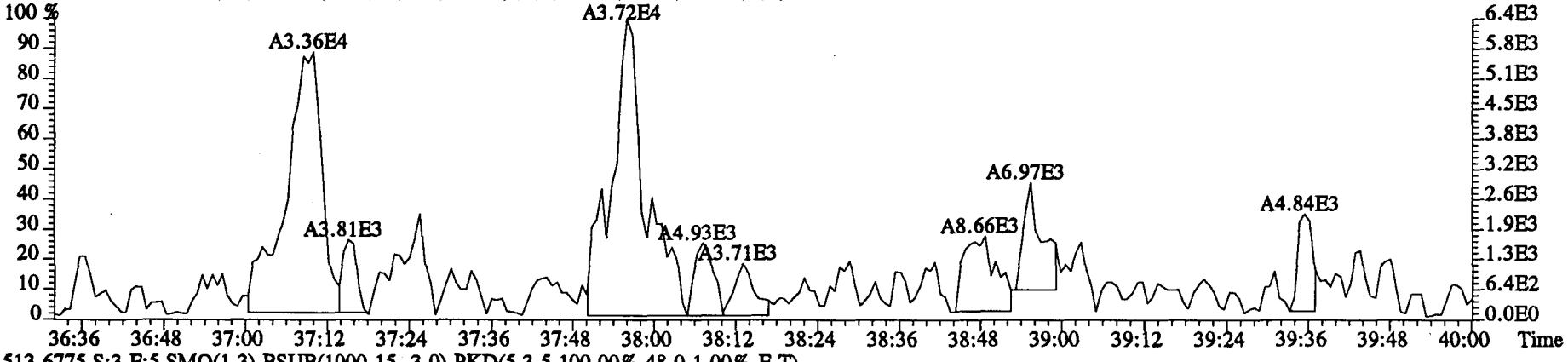


File:17FE104D5 #1-281 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN

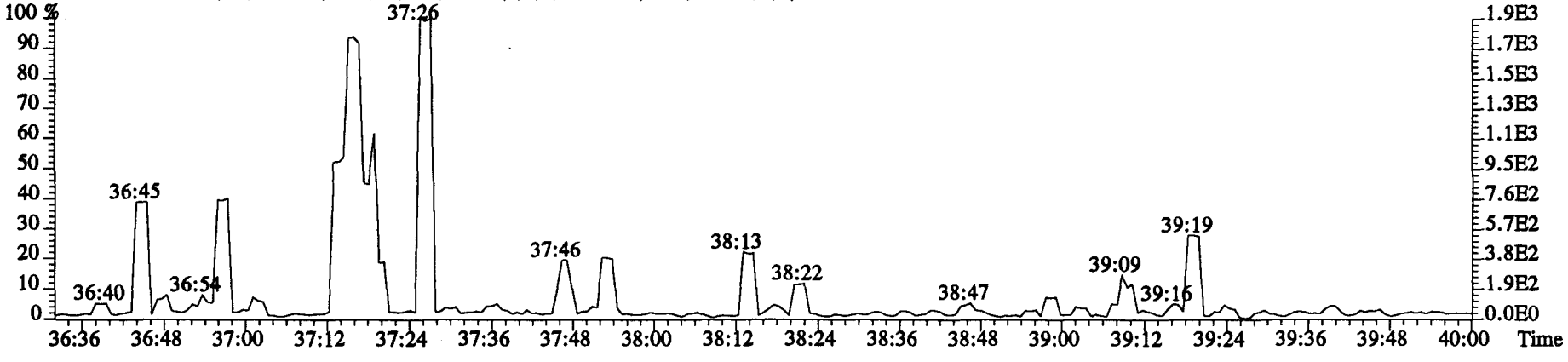
441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,756.0,1.00%,F,T)



443.7399 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,888.0,1.00%,F,T)

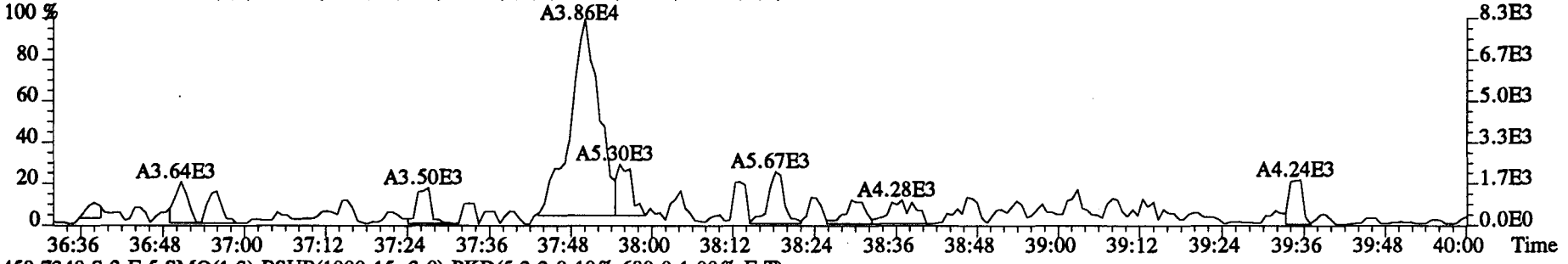


513.6775 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,48.0,1.00%,F,T)

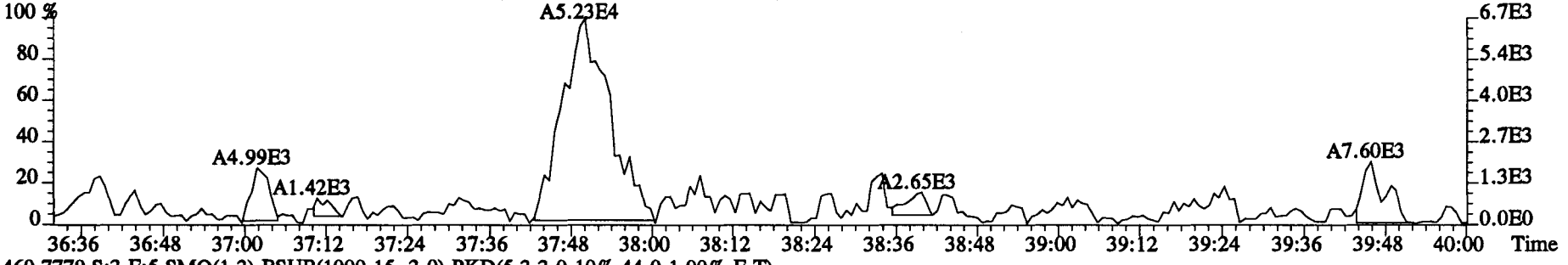


File:17FE104D5 #1-281 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN

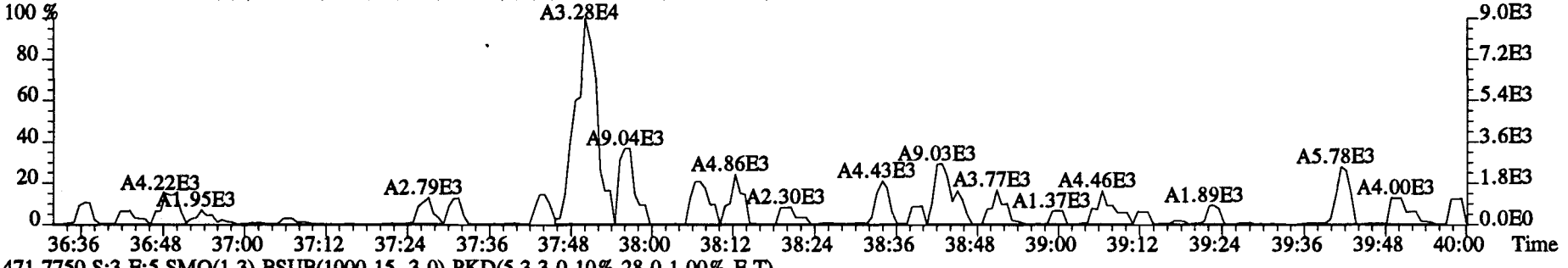
457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,632.0,1.00%,F,T)



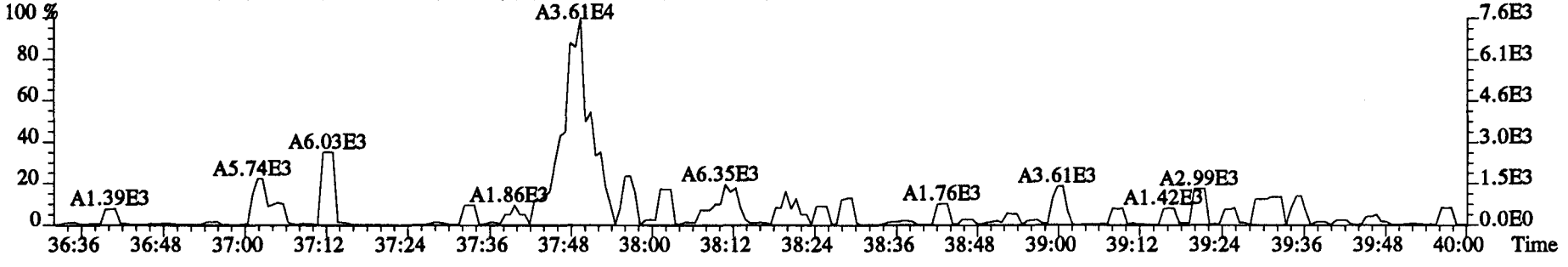
459.7348 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,680.0,1.00%,F,T)



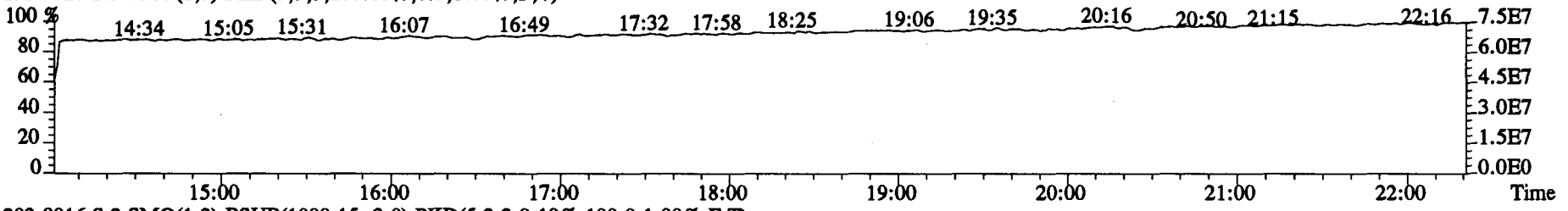
469.7779 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44.0,1.00%,F,T)



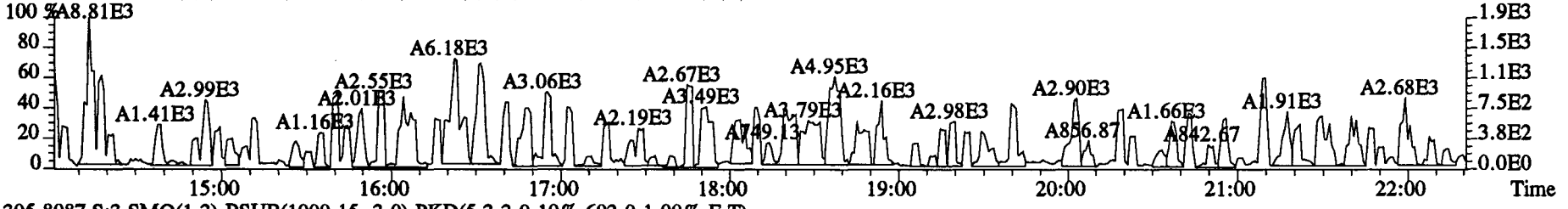
471.7750 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28.0,1.00%,F,T)



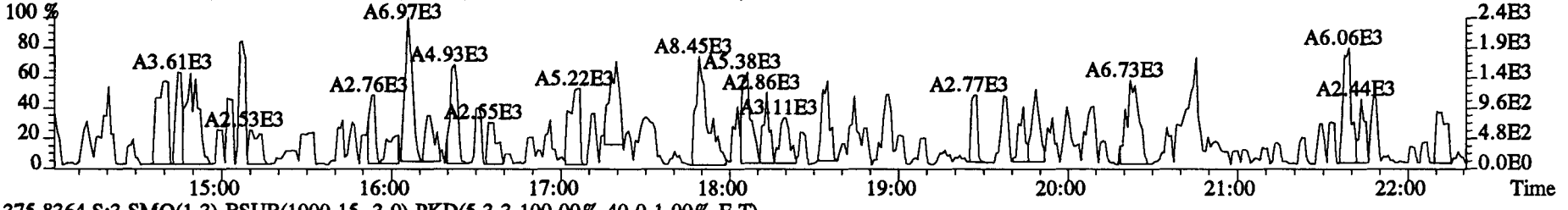
File:17FE104D5 #1-578 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN
292.9825 S:3 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



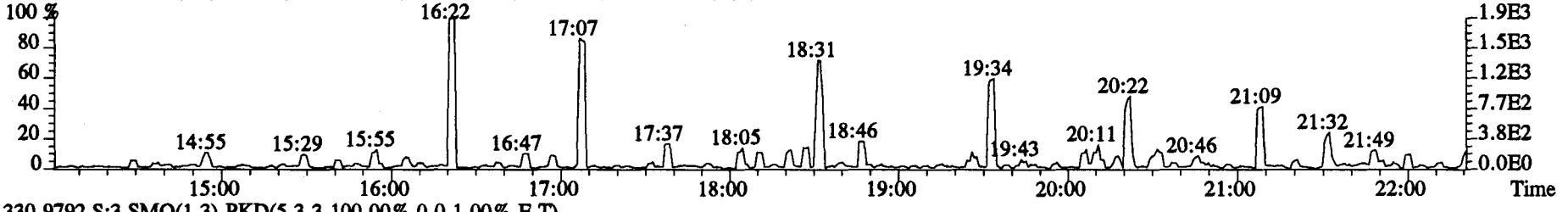
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,100.0,1.00%,F,T)



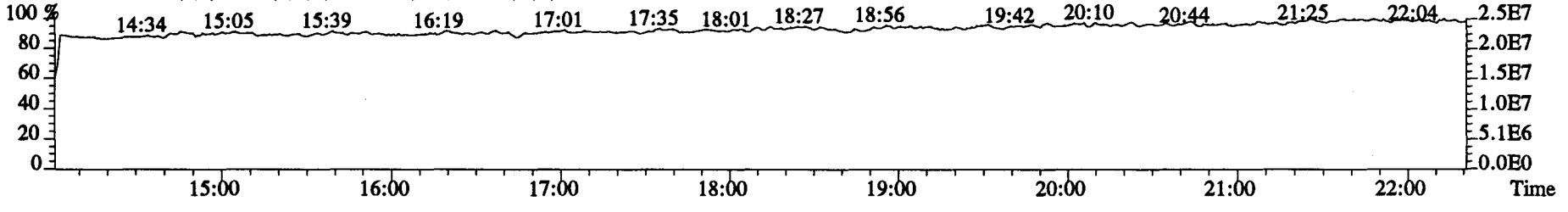
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,692.0,1.00%,F,T)



375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,40.0,1.00%,F,T)

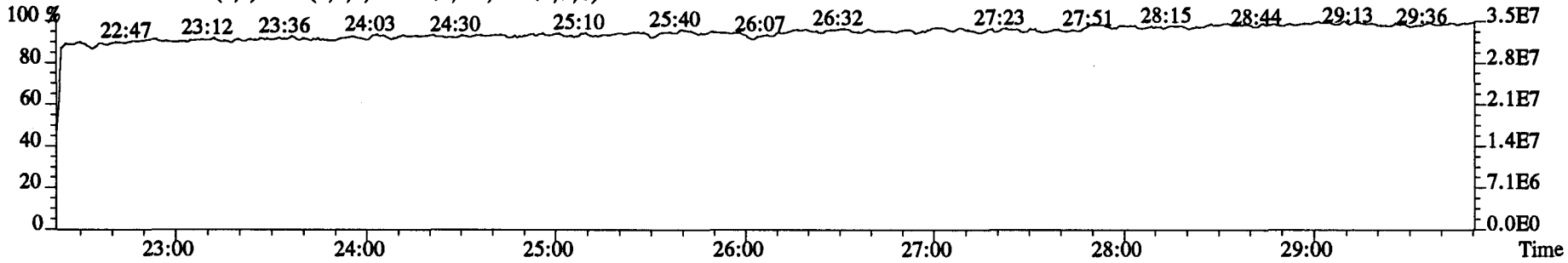


330.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

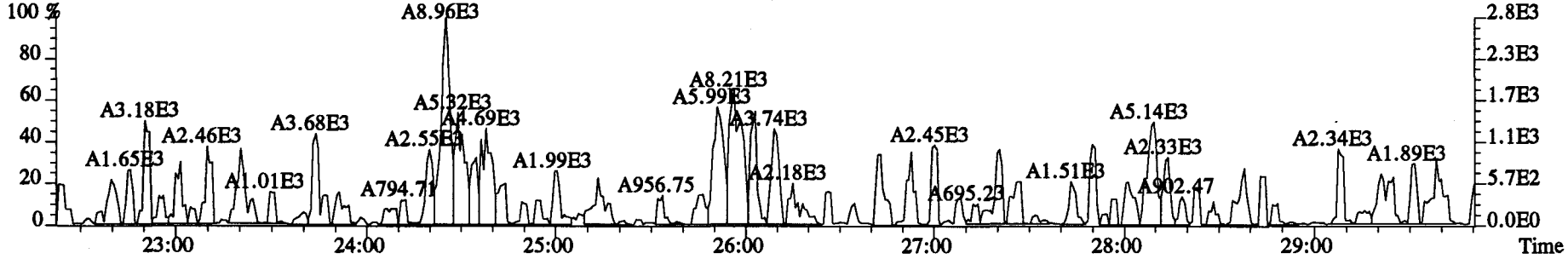


File:17FE104D5 #1-596 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN

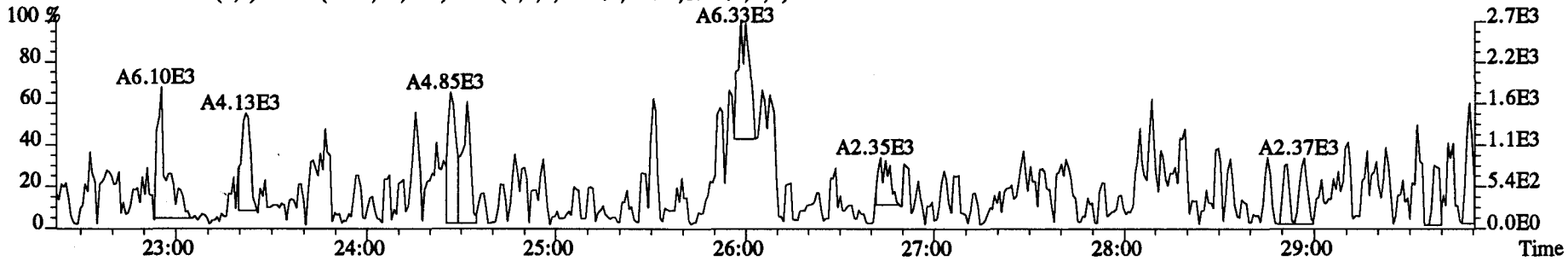
342.9792 S:3 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



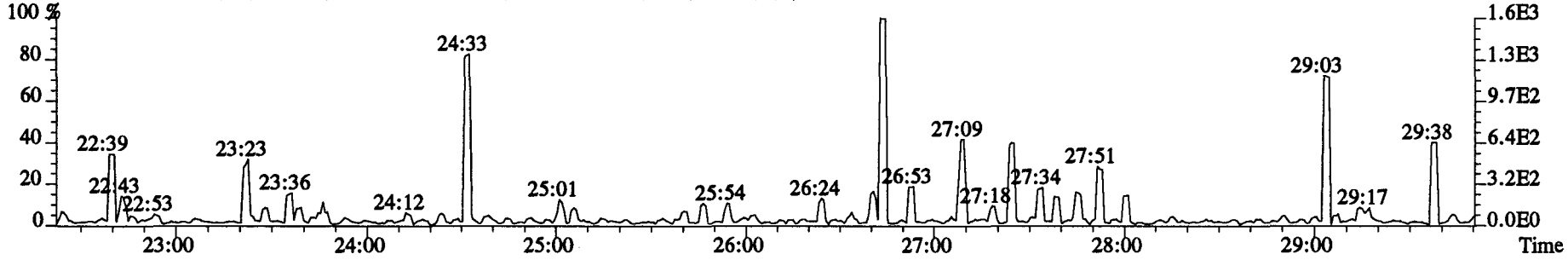
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)



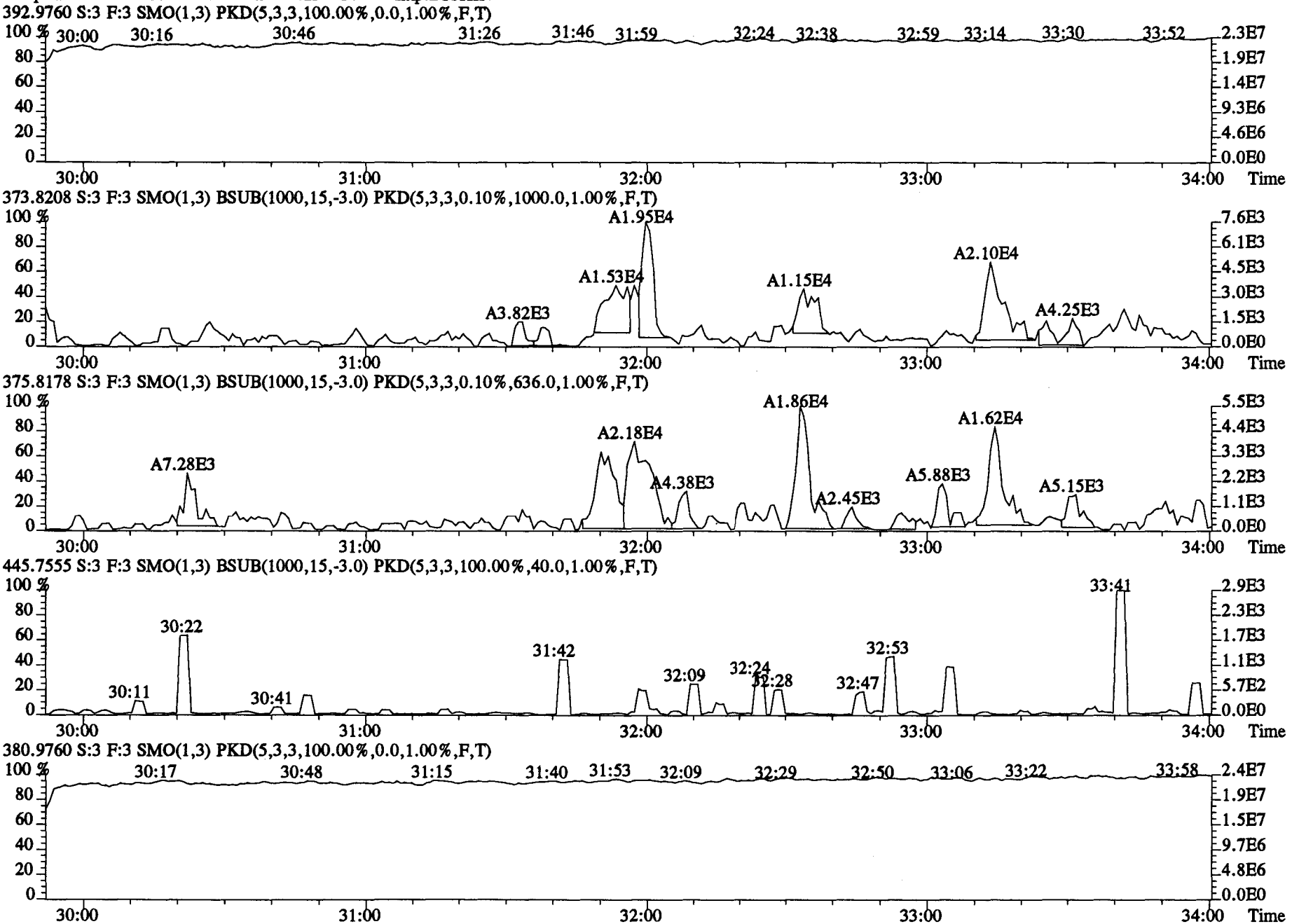
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,704.0,1.00%,F,T)



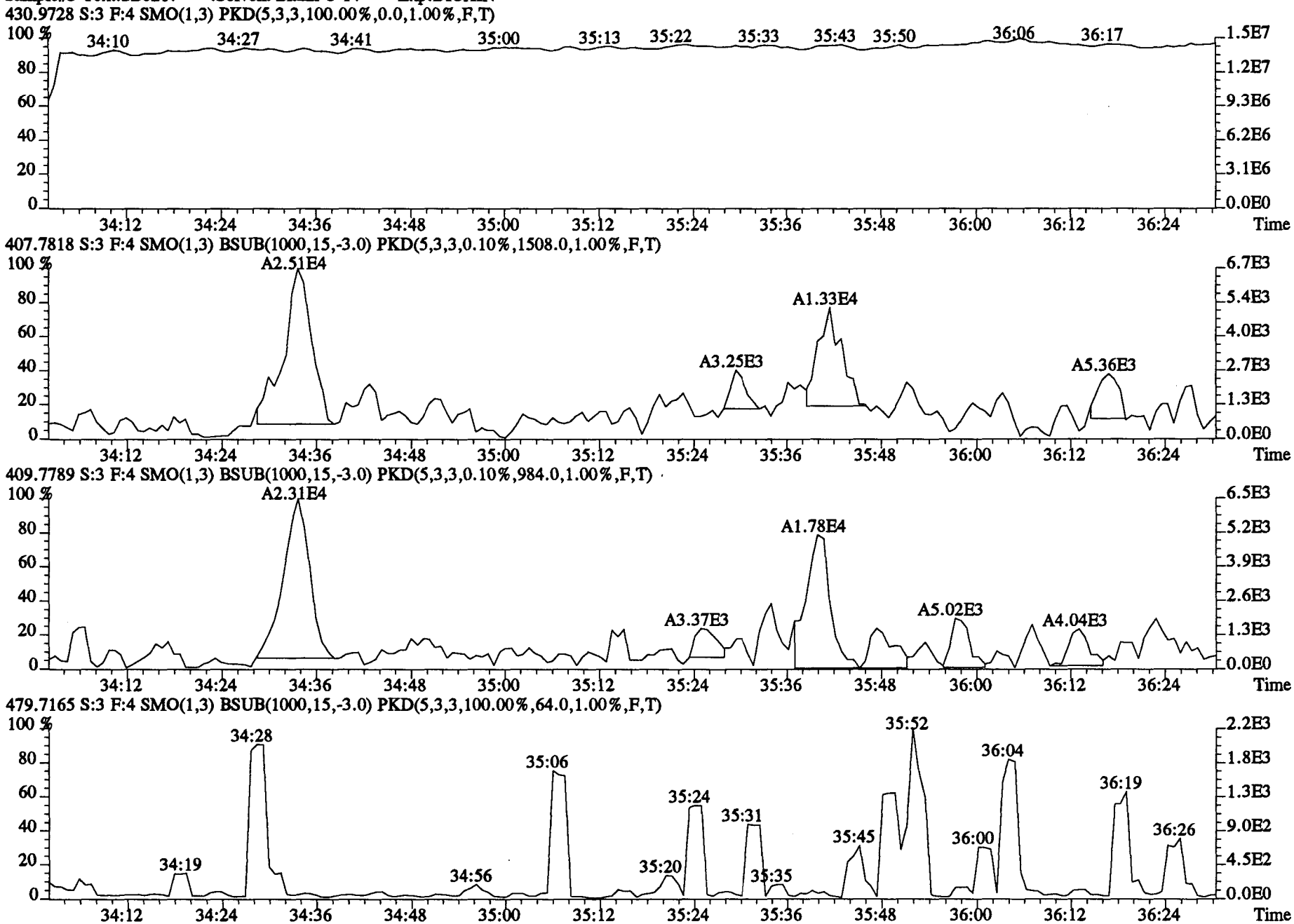
409.7974 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,44.0,1.00%,F,T)



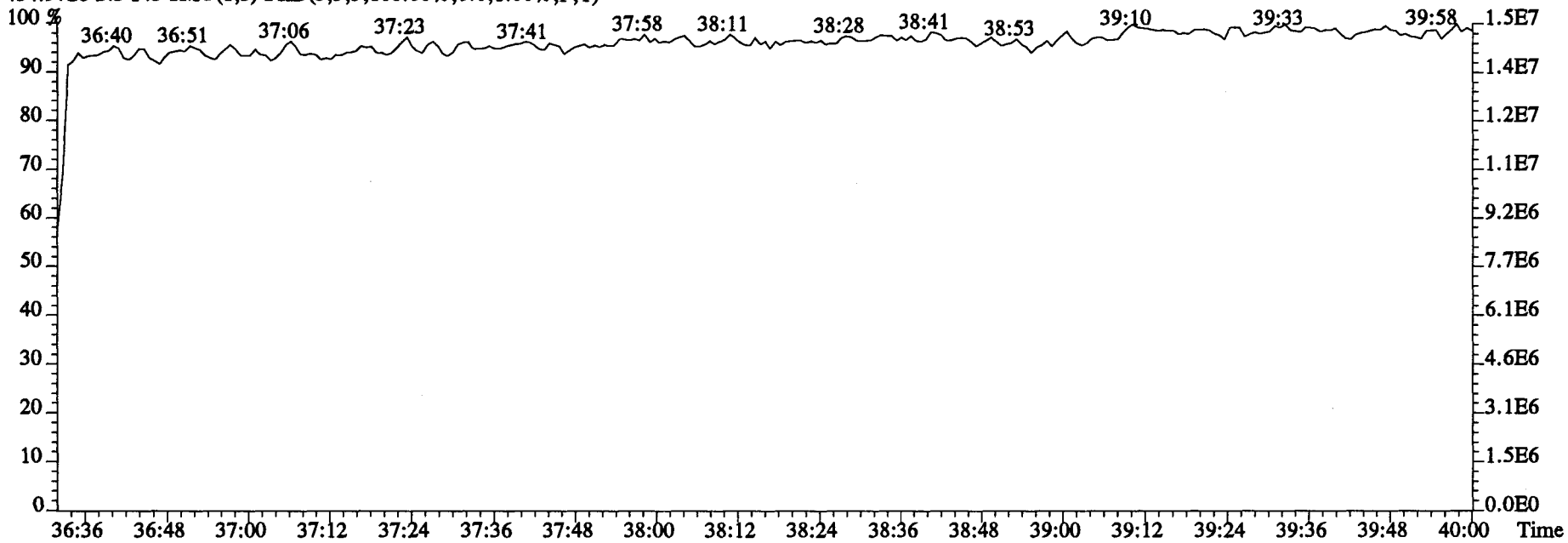
File:17FE104D5 #1-314 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN



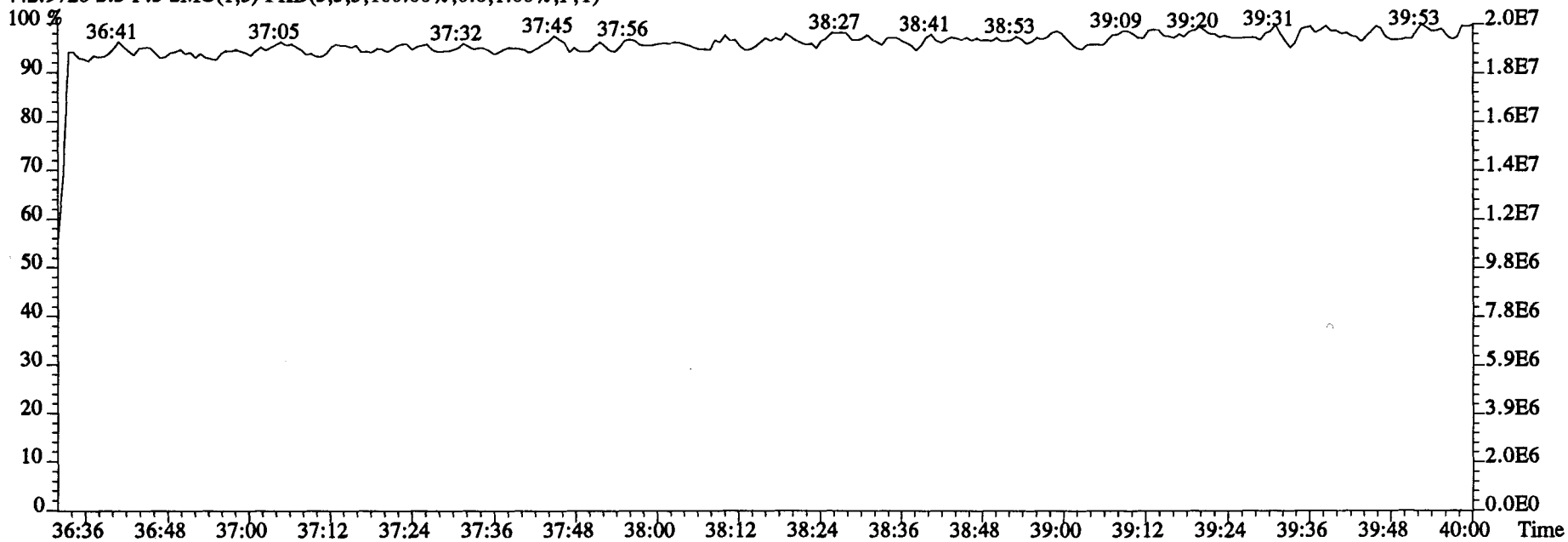
File:17FE104D5 #1-198 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN



File:17FE104D5 #1-281 Acq:17-FEB-2010 11:01:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB0217 :Solvent Blank C-14 Exp:DIOXIN
454.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

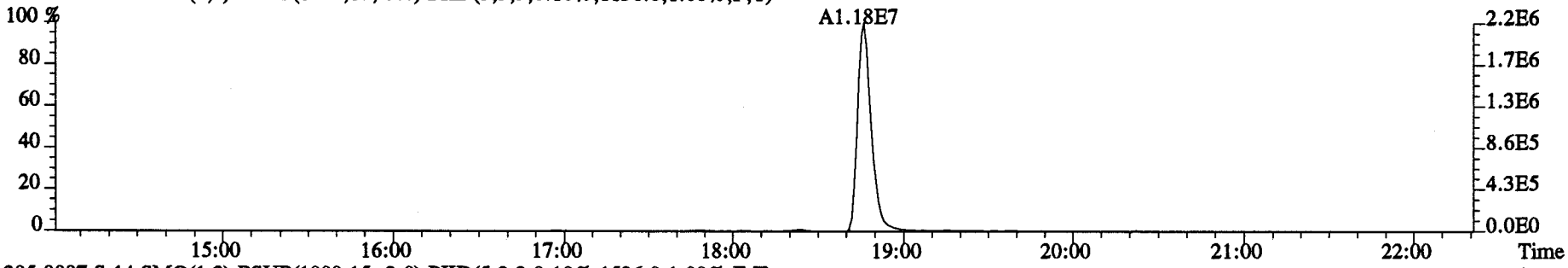


442.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

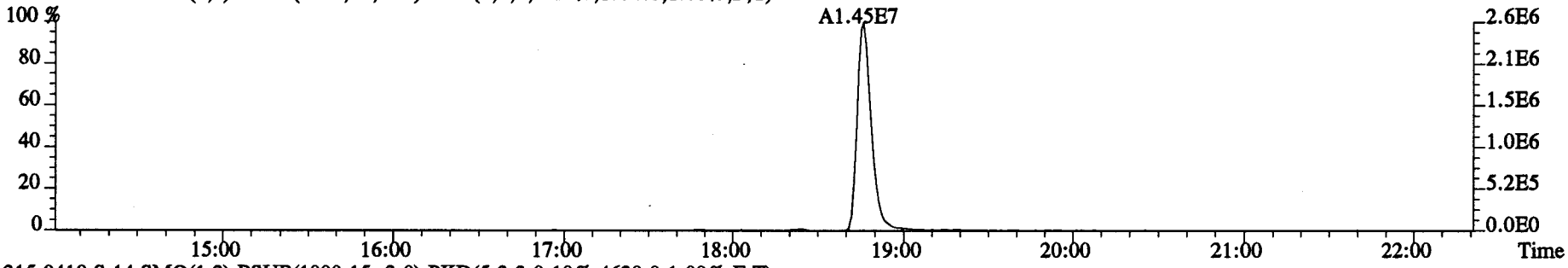


File:17FE104D5 #1-578 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN

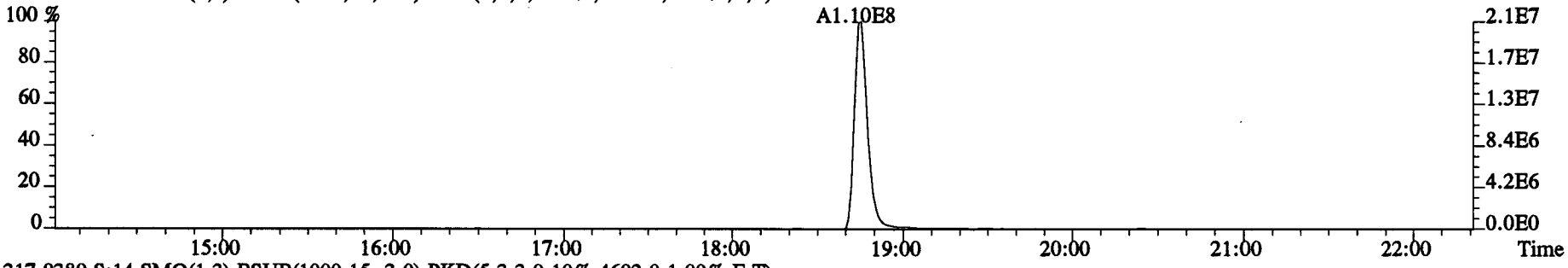
303.9016 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1136.0,1.00%,F,T)



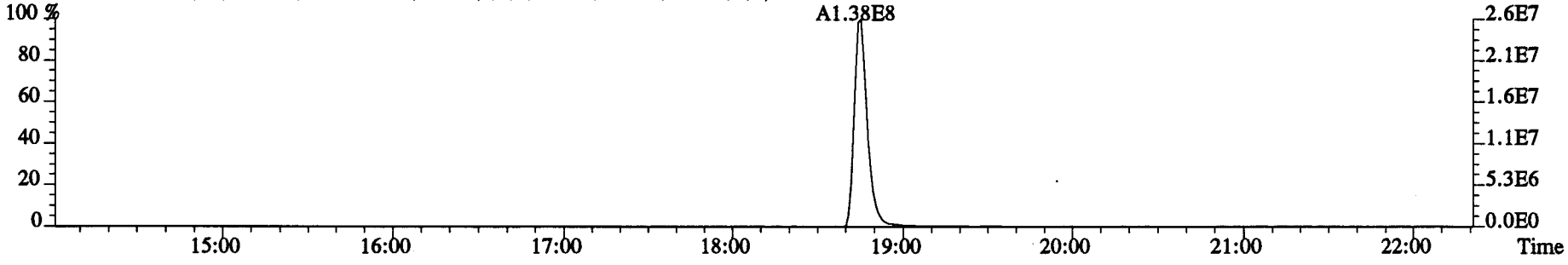
305.8987 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1536.0,1.00%,F,T)



315.9419 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4620.0,1.00%,F,T)

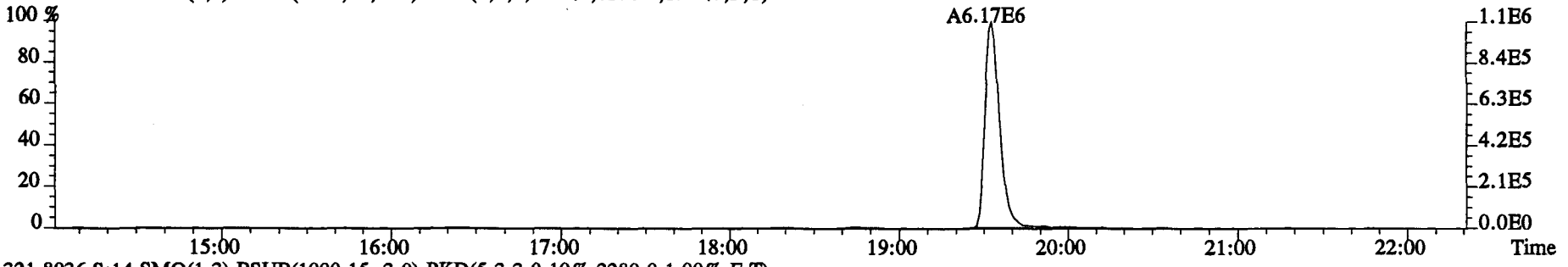


317.9389 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4692.0,1.00%,F,T)

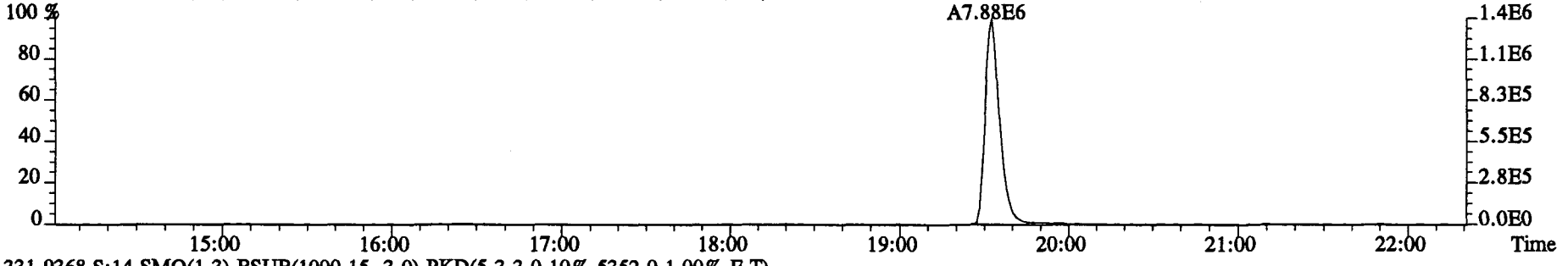


File:17FE104D5 #1-578 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN

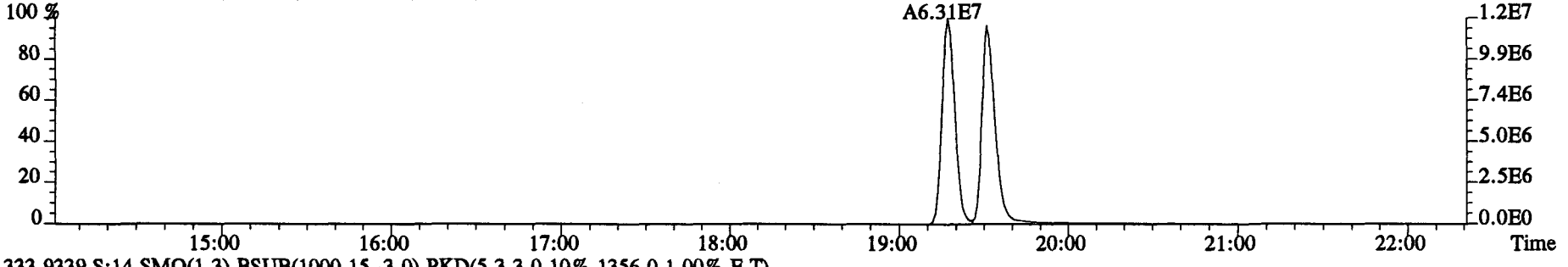
319.8965 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1256.0,1.00%,F,T)



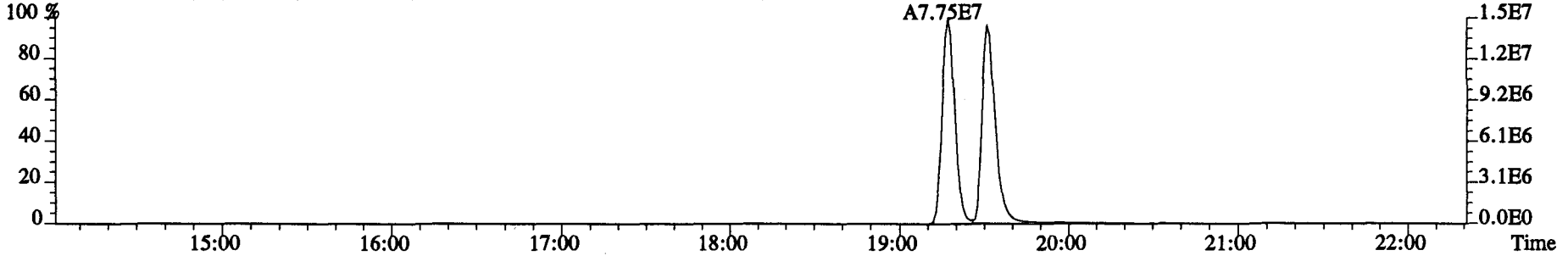
321.8936 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2280.0,1.00%,F,T)



331.9368 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5352.0,1.00%,F,T)

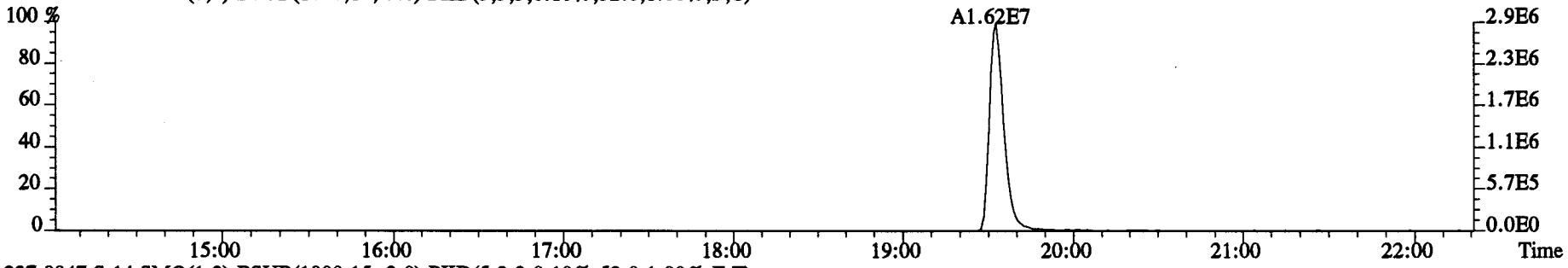


333.9339 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1356.0,1.00%,F,T)

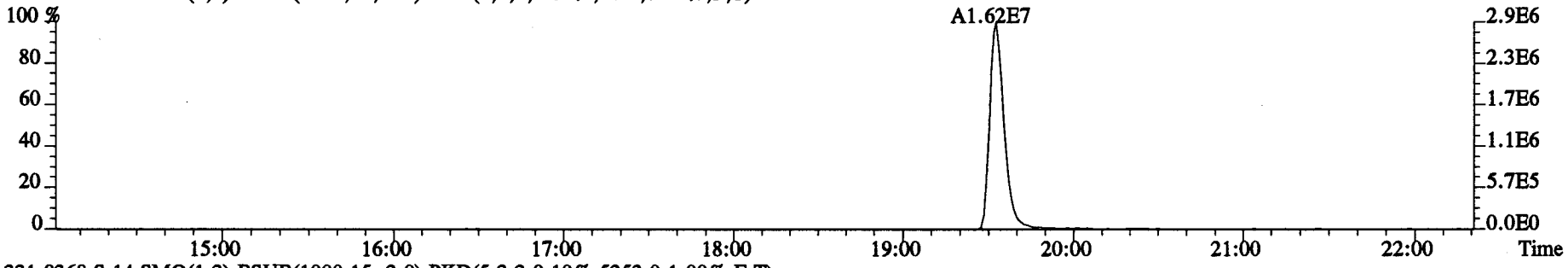


File:17FE104D5 #1-578 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN

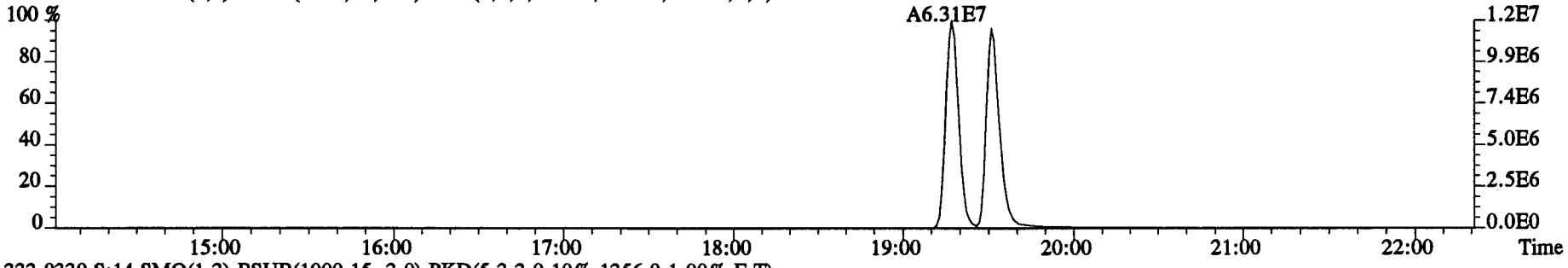
327.8847 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52.0,1.00%,F,T)



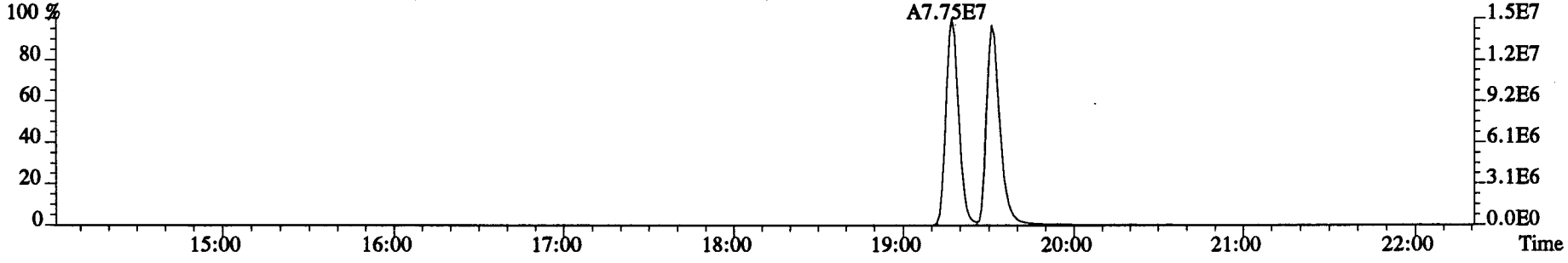
327.8847 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52.0,1.00%,F,T)



331.9368 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5352.0,1.00%,F,T)

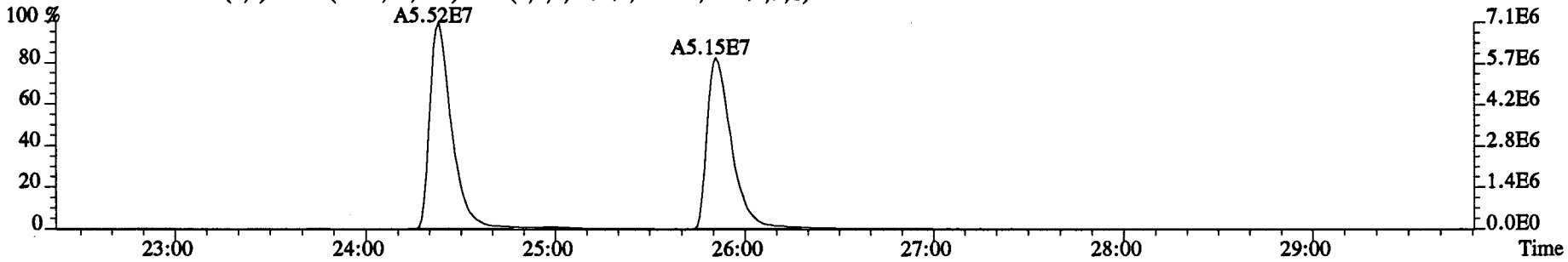


333.9339 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1356.0,1.00%,F,T)

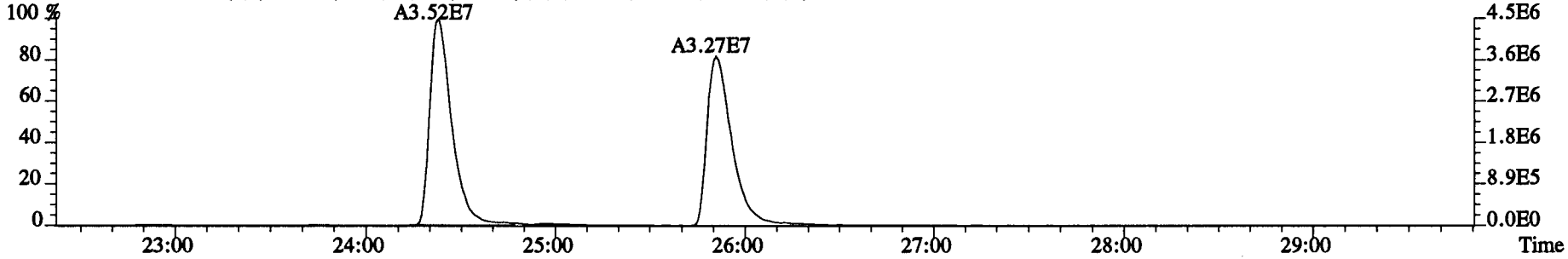


File:17FE104D5 #1-596 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN

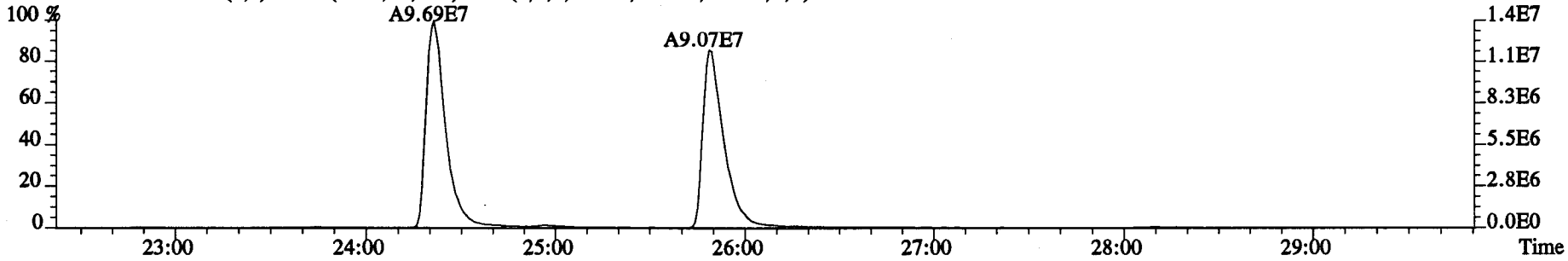
339.8597 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4132.0,1.00%,F,T)



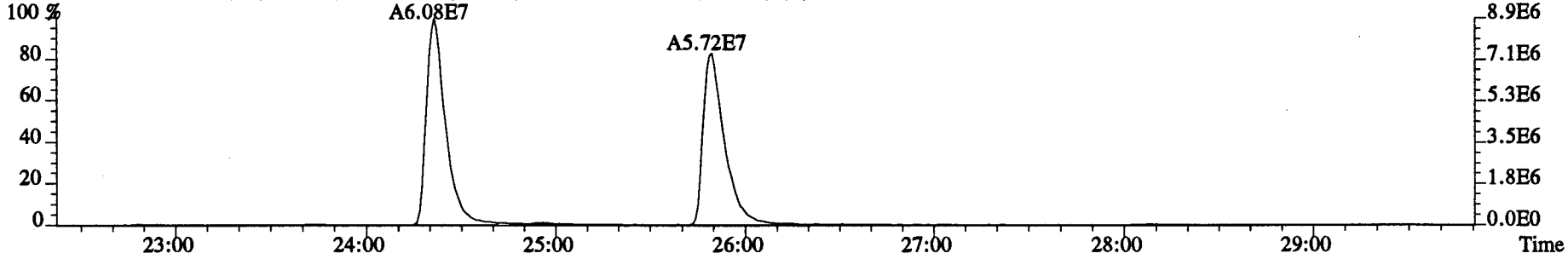
341.8567 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2644.0,1.00%,F,T)



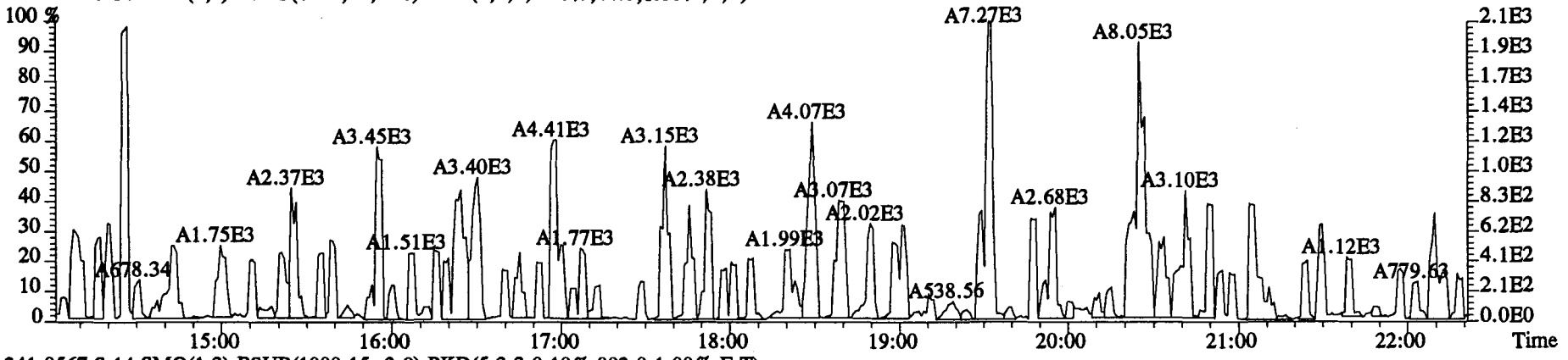
351.9000 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5664.0,1.00%,F,T)



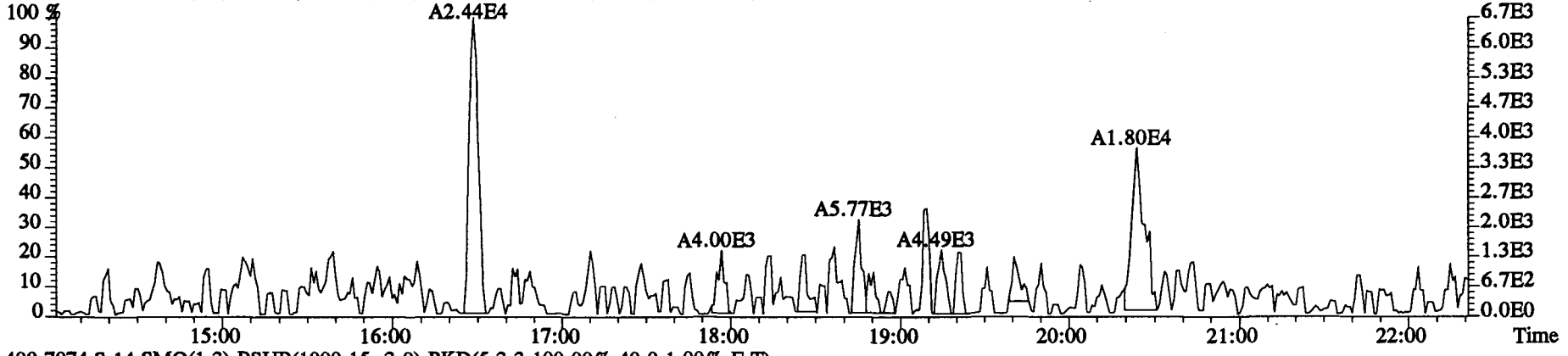
353.8970 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6516.0,1.00%,F,T)



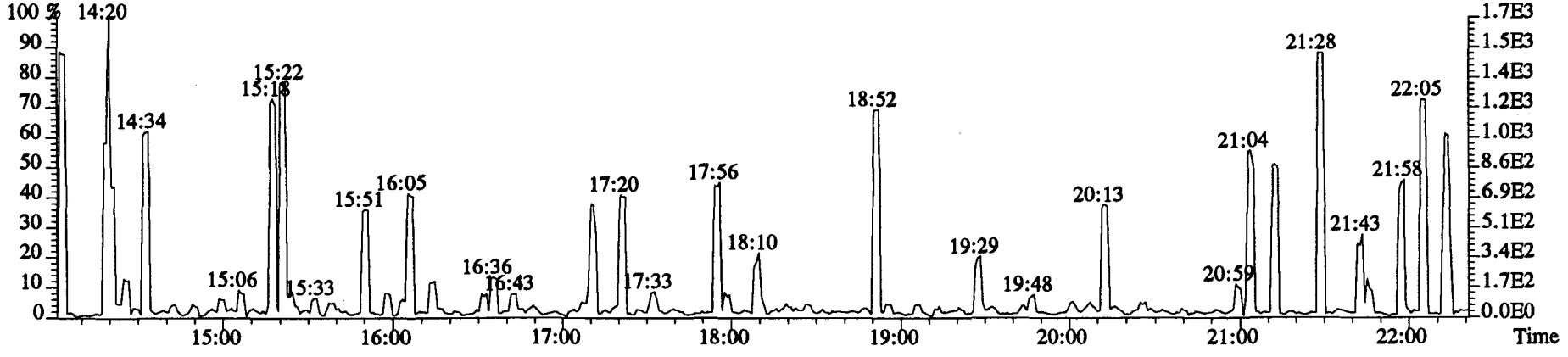
File:17FE104D5 #1-578 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN
339.8597 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44.0,1.00%,F,T)



341.8567 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,892.0,1.00%,F,T)

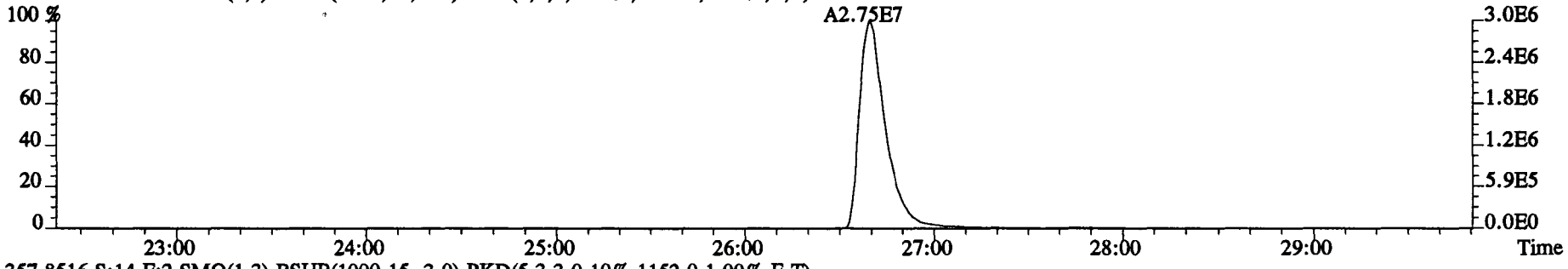


409.7974 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,40.0,1.00%,F,T)

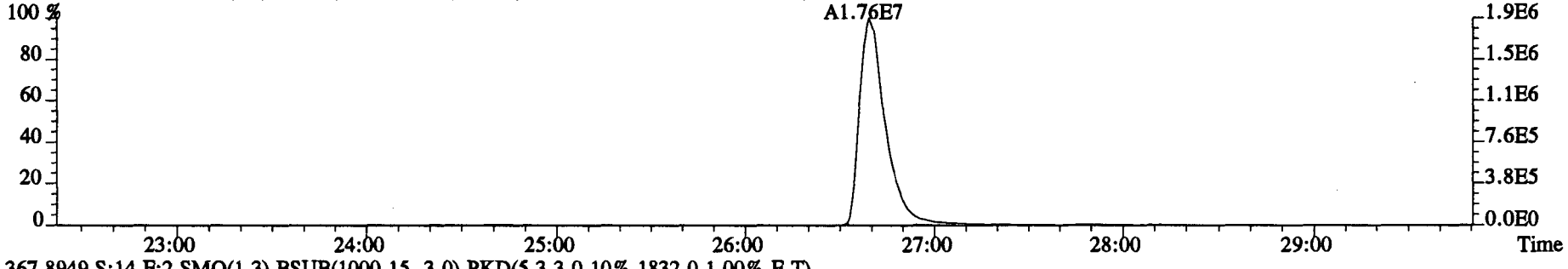


File:17FE104D5 #1-596 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN

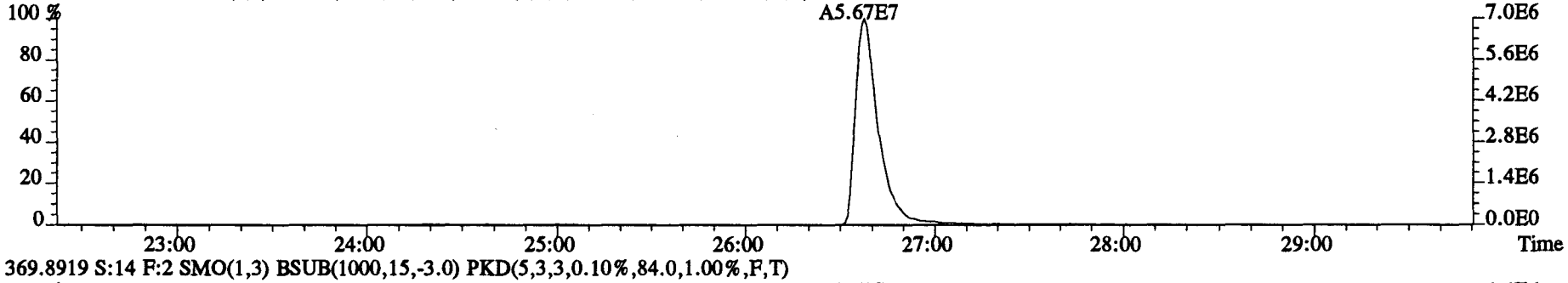
355.8546 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2024.0,1.00%,F,T)



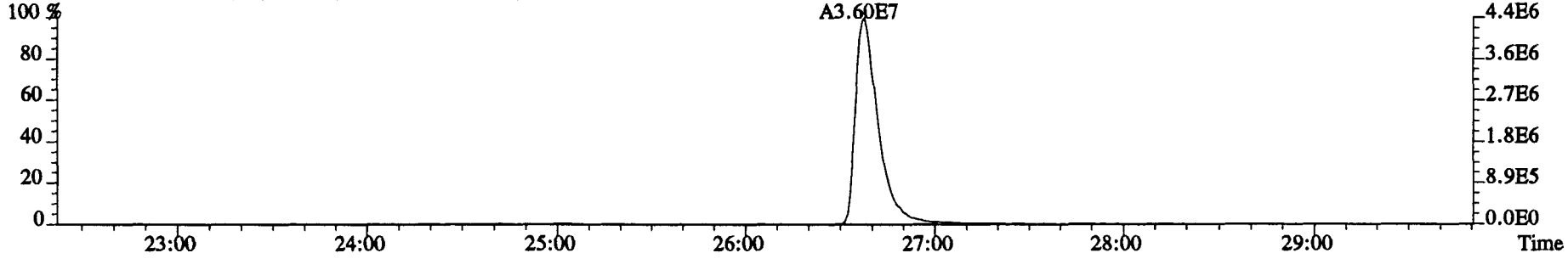
357.8516 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1152.0,1.00%,F,T)



367.8949 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1832.0,1.00%,F,T)

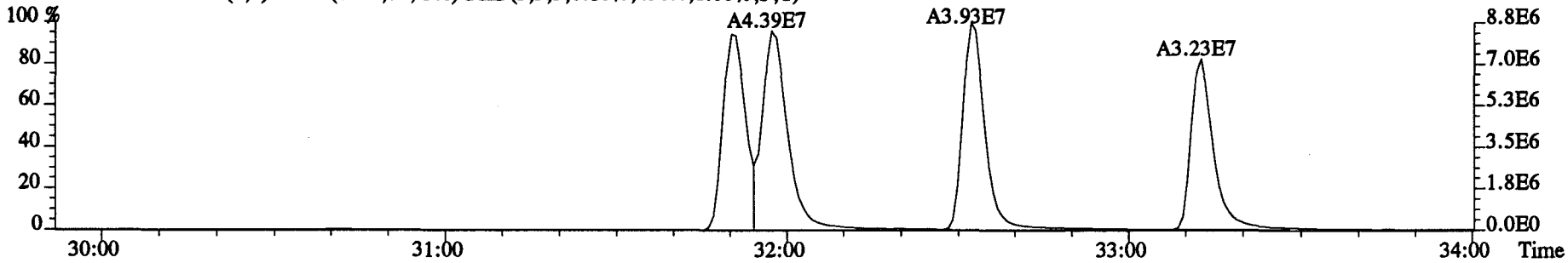


369.8919 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,84.0,1.00%,F,T)

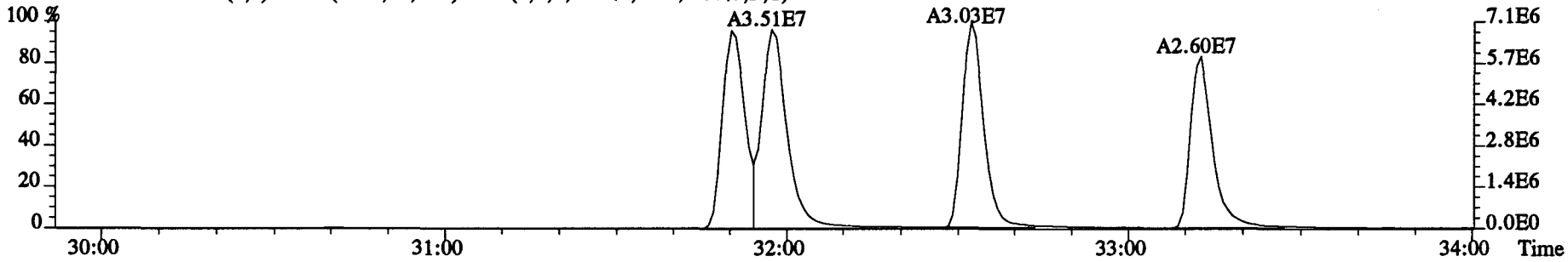


File:17FE104D5 #1-314 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN

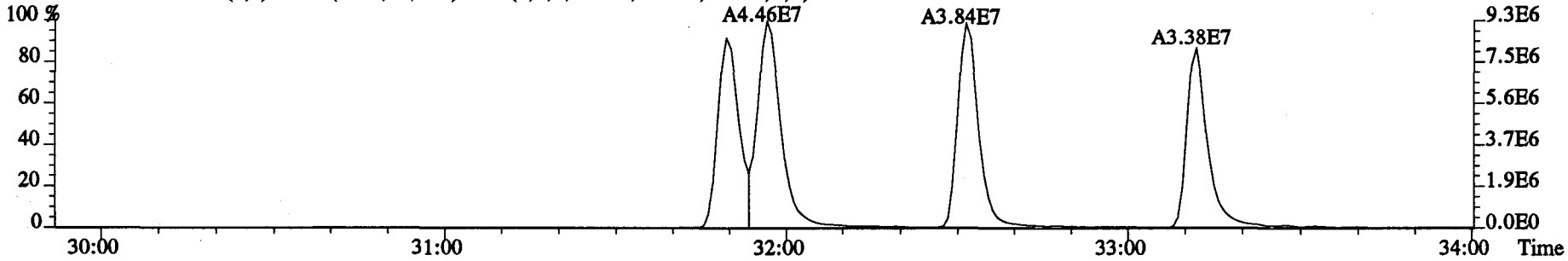
373.8208 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,436.0,1.00%,F,T)



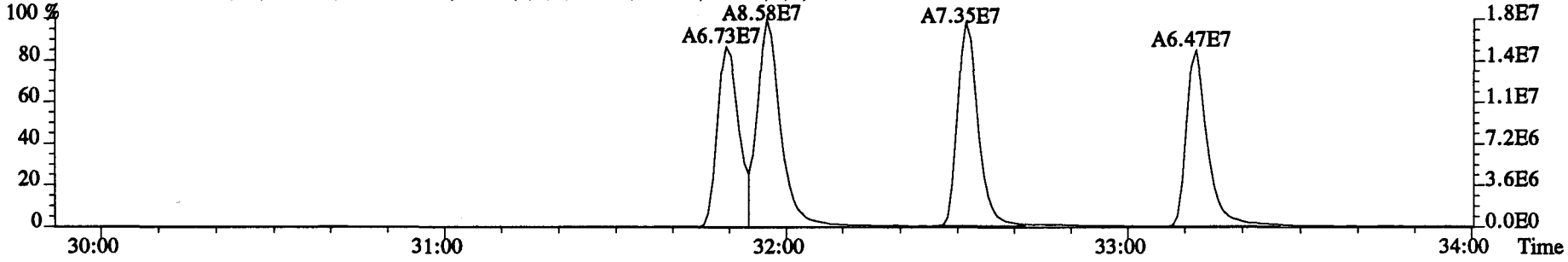
375.8178 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20.0,1.00%,F,T)



383.8639 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1556.0,1.00%,F,T)

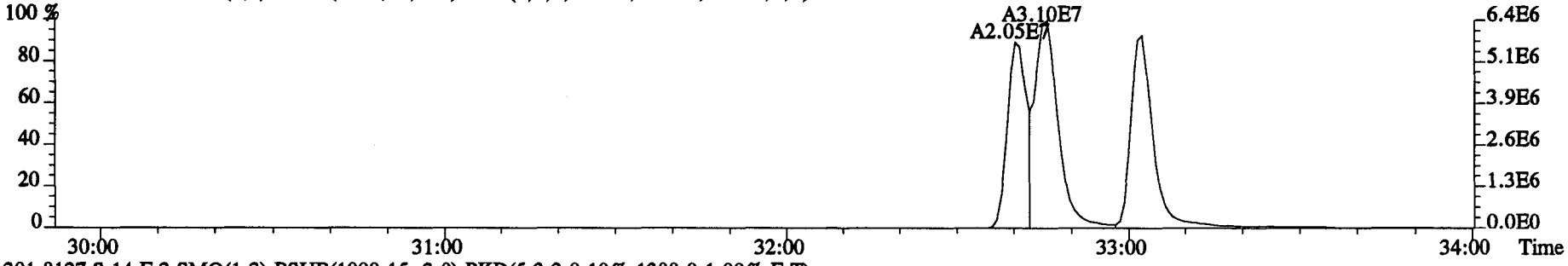


385.8610 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2124.0,1.00%,F,T)

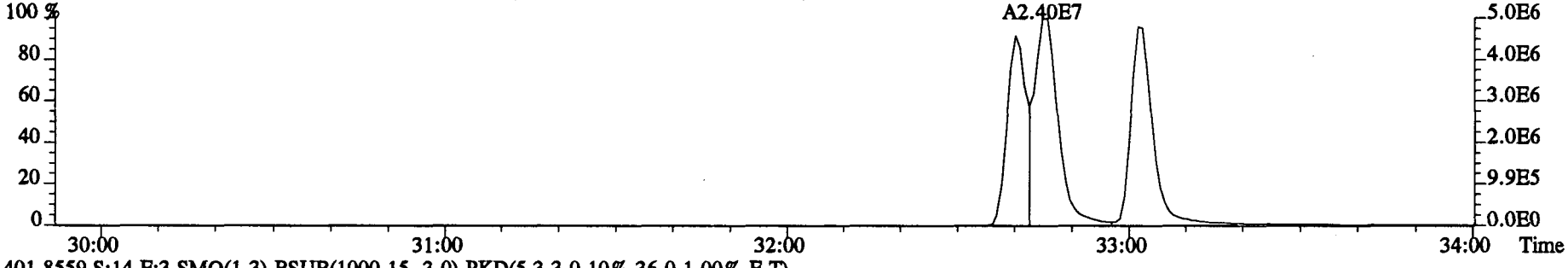


File:17FE104D5 #1-314 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN

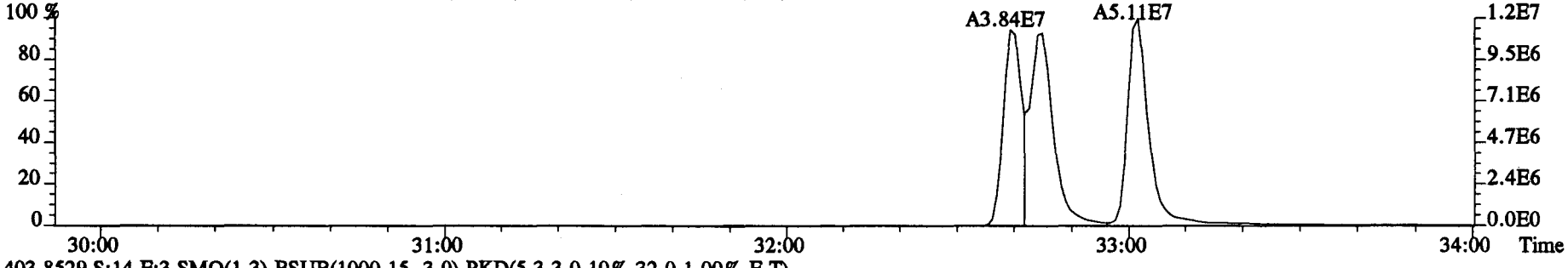
389.8157 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1004.0,1.00%,F,T)



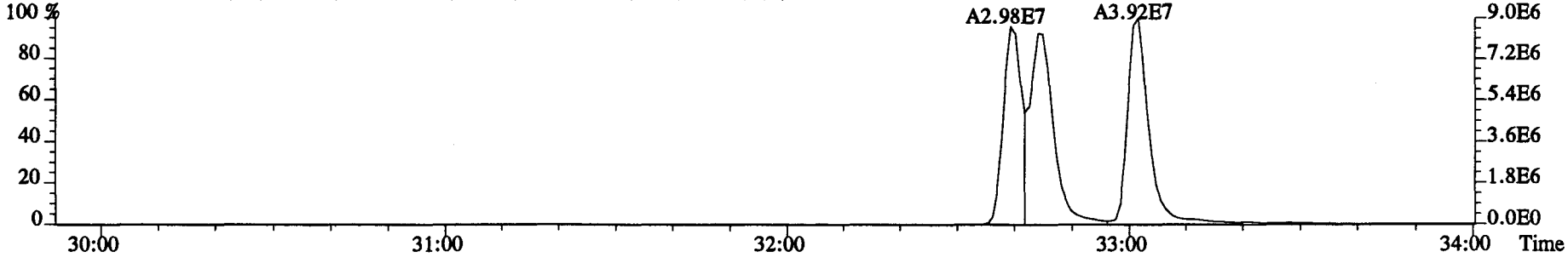
391.8127 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1388.0,1.00%,F,T)



401.8559 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,36.0,1.00%,F,T)

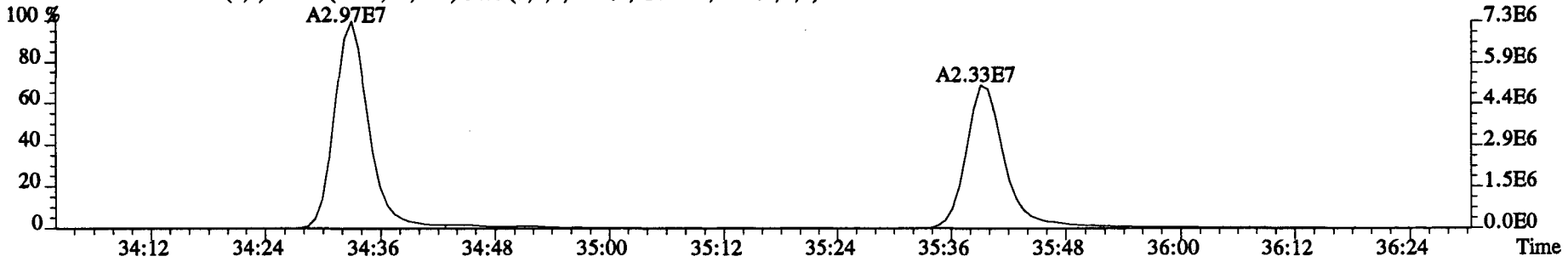


403.8529 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32.0,1.00%,F,T)

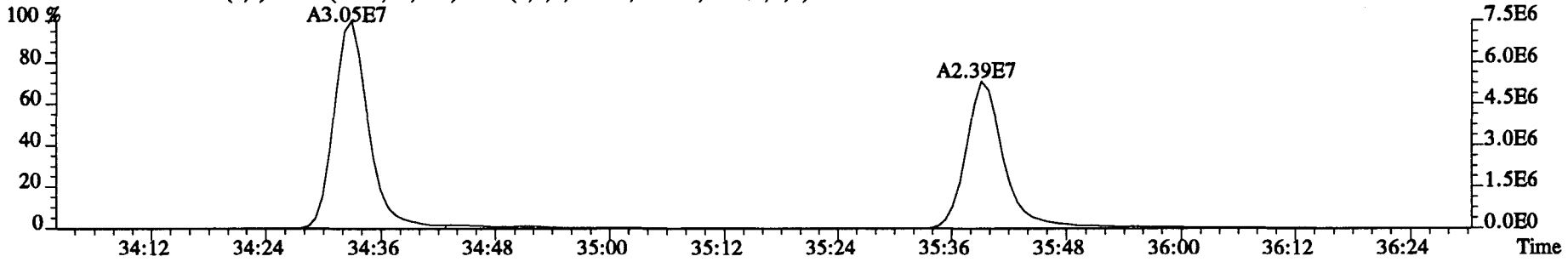


File:17FE104D5 #1-198 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN

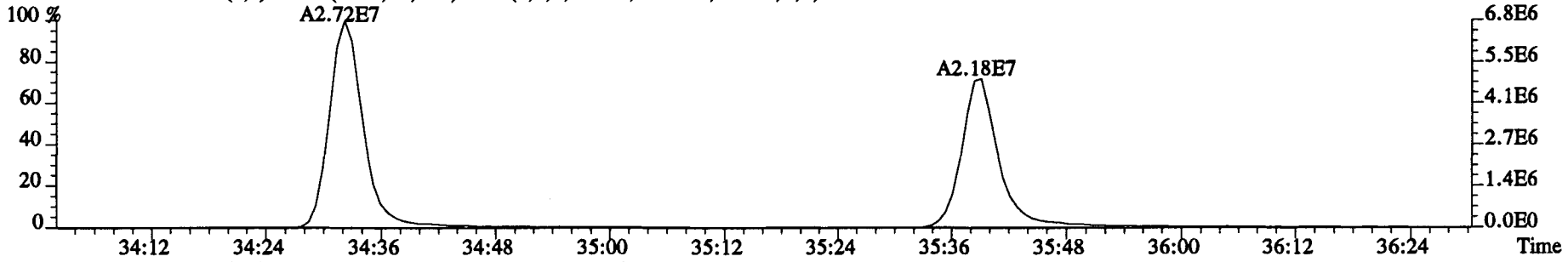
407.7818 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12700.0,1.00%,F,T)



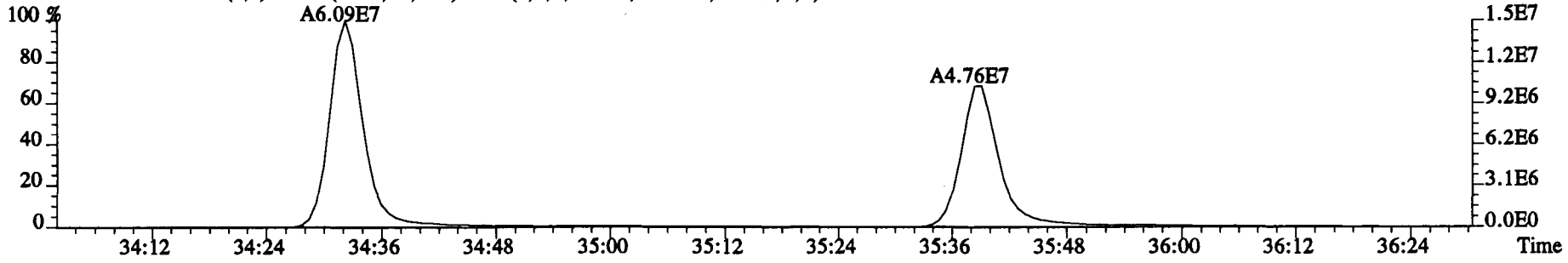
409.7789 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3348.0,1.00%,F,T)



417.8253 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10864.0,1.00%,F,T)

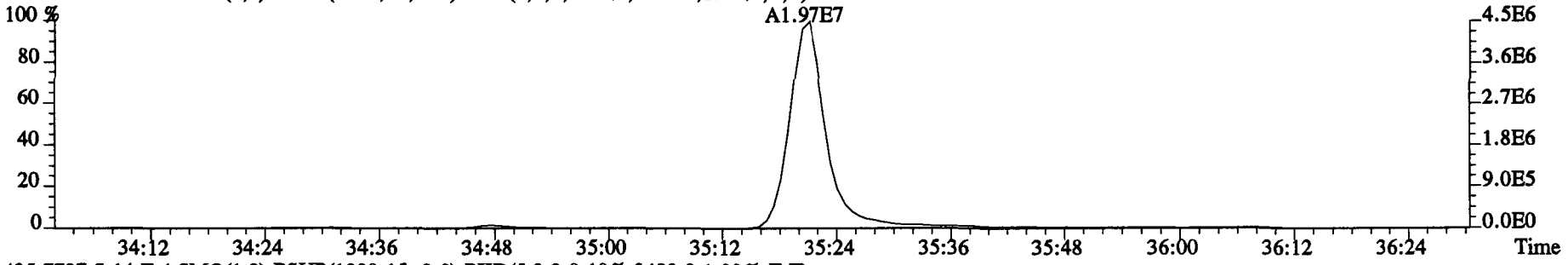


419.8220 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,35244.0,1.00%,F,T)

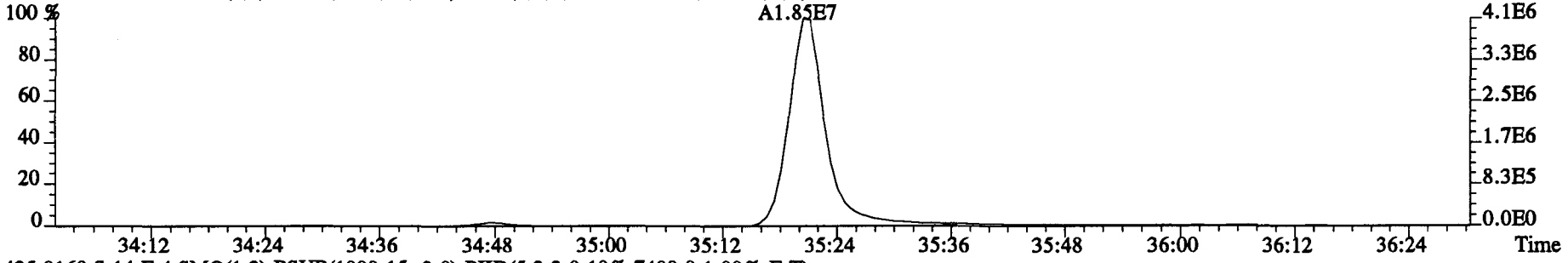


File:17FE104D5 #1-198 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN

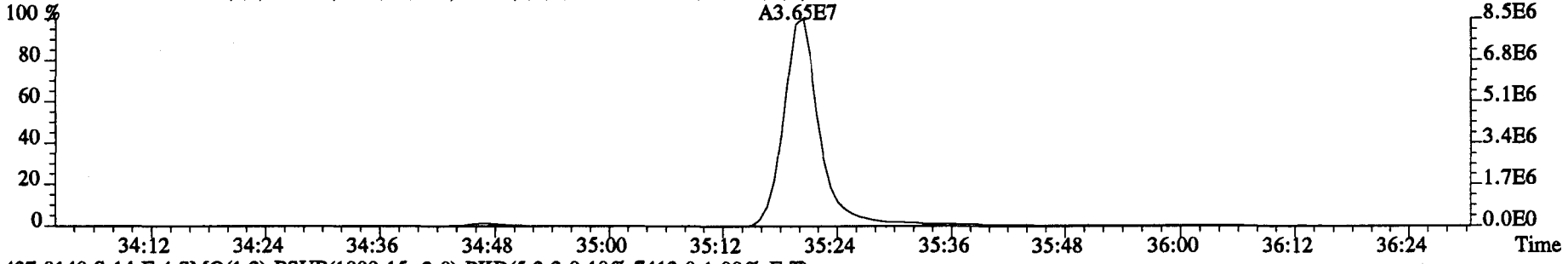
423.7766 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2996.0,1.00%,F,T)



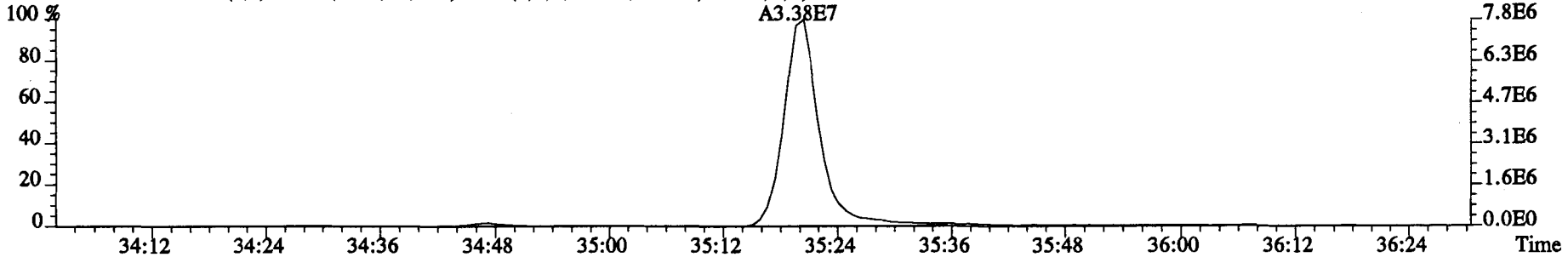
425.7737 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2492.0,1.00%,F,T)



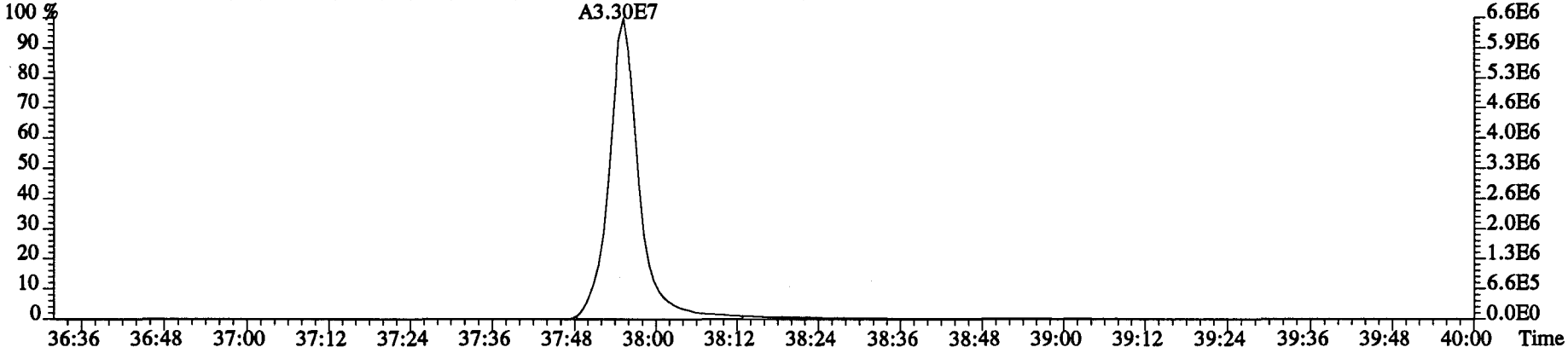
435.8169 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7408.0,1.00%,F,T)



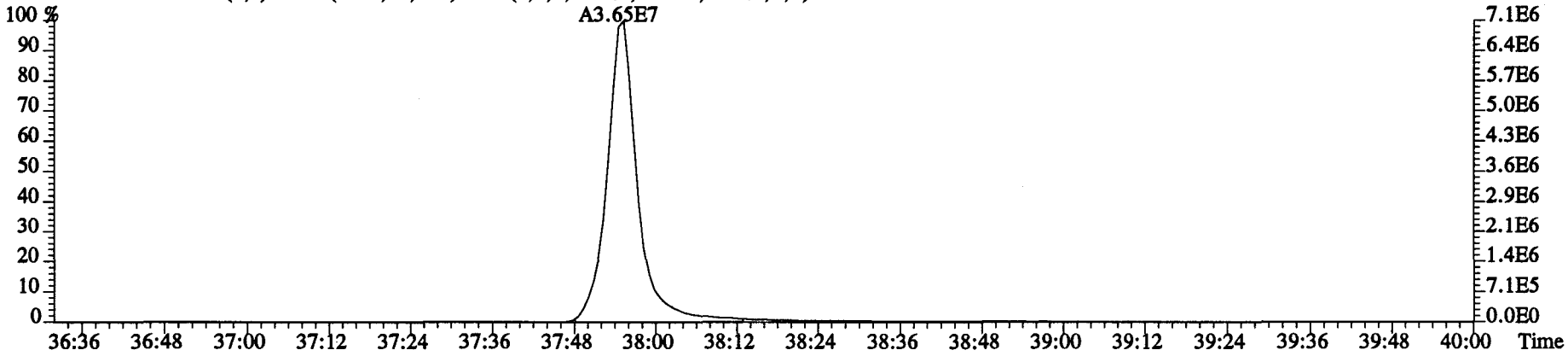
437.8140 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7412.0,1.00%,F,T)



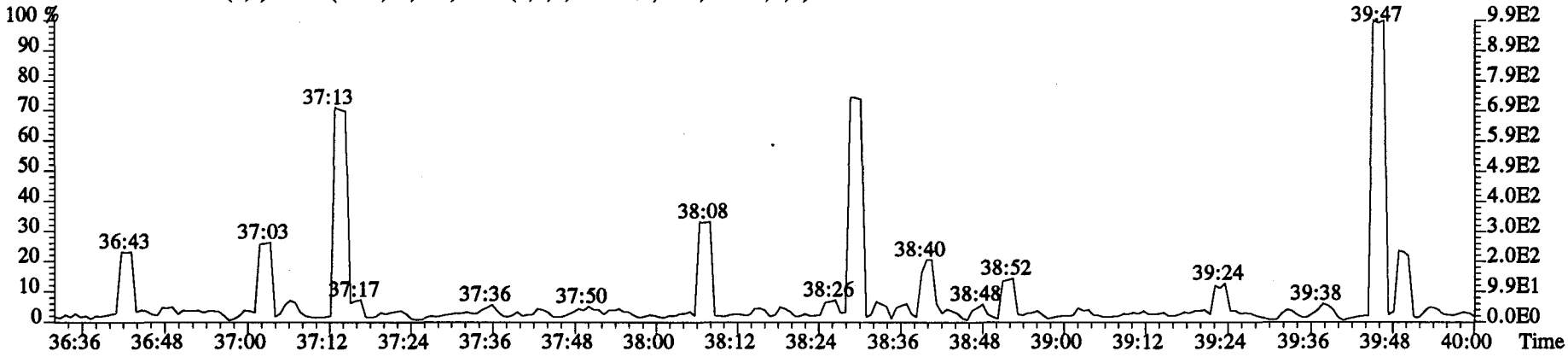
File:17FE104D5 #1-281 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN
441.7428 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3320.0,1.00%,F,T)



443.7399 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2168.0,1.00%,F,T)

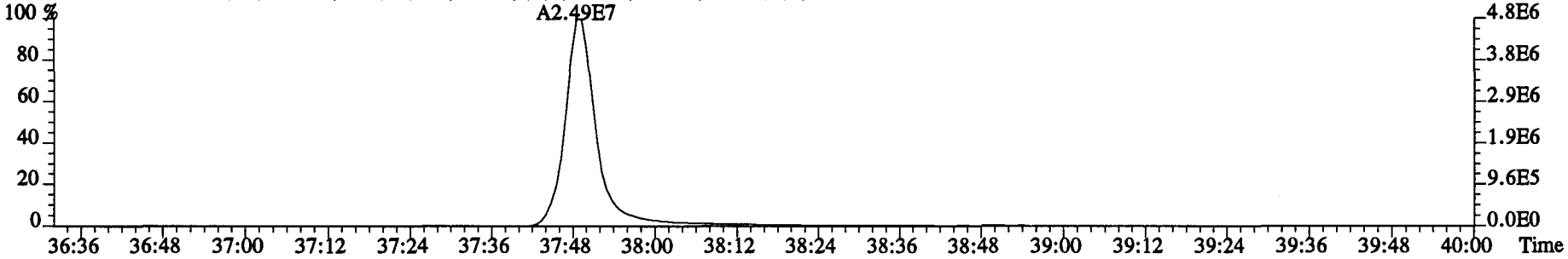


513.6775 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,32.0,1.00%,F,T)

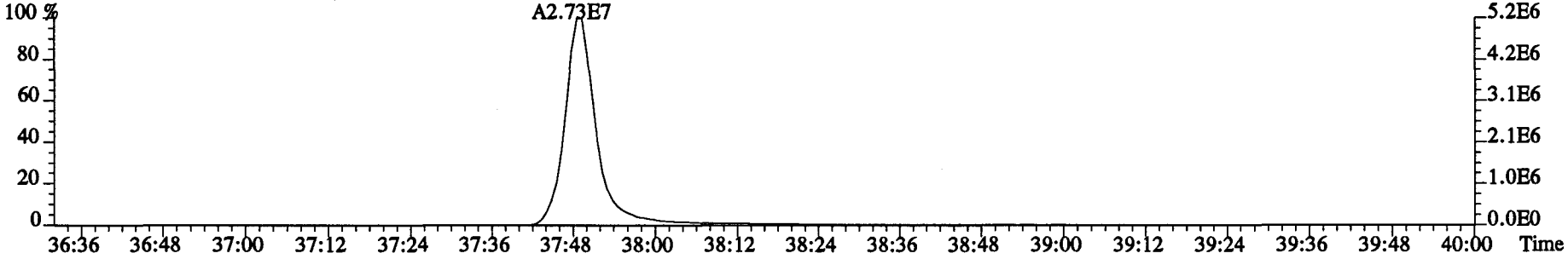


File:17FE104D5 #1-281 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN

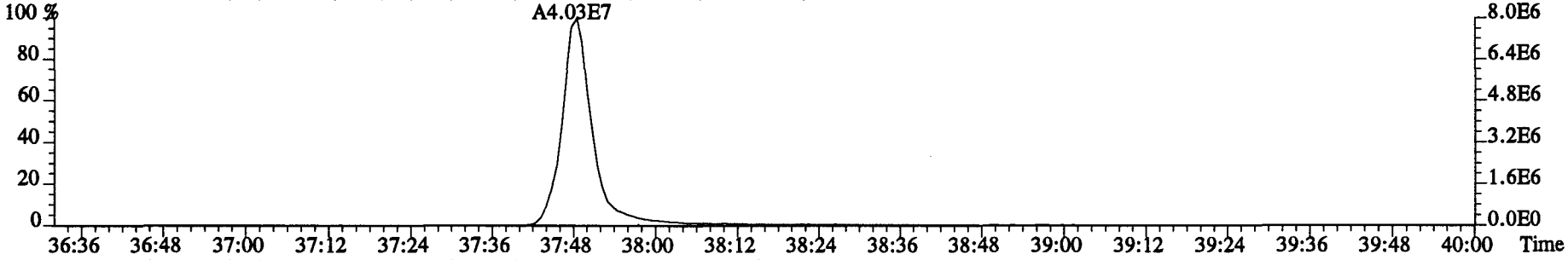
457.7377 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1268.0,1.00%,F,T)



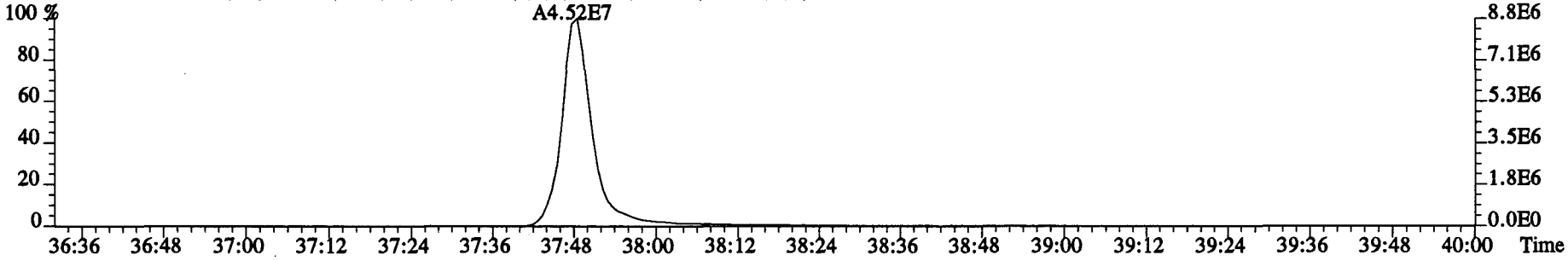
459.7348 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1768.0,1.00%,F,T)



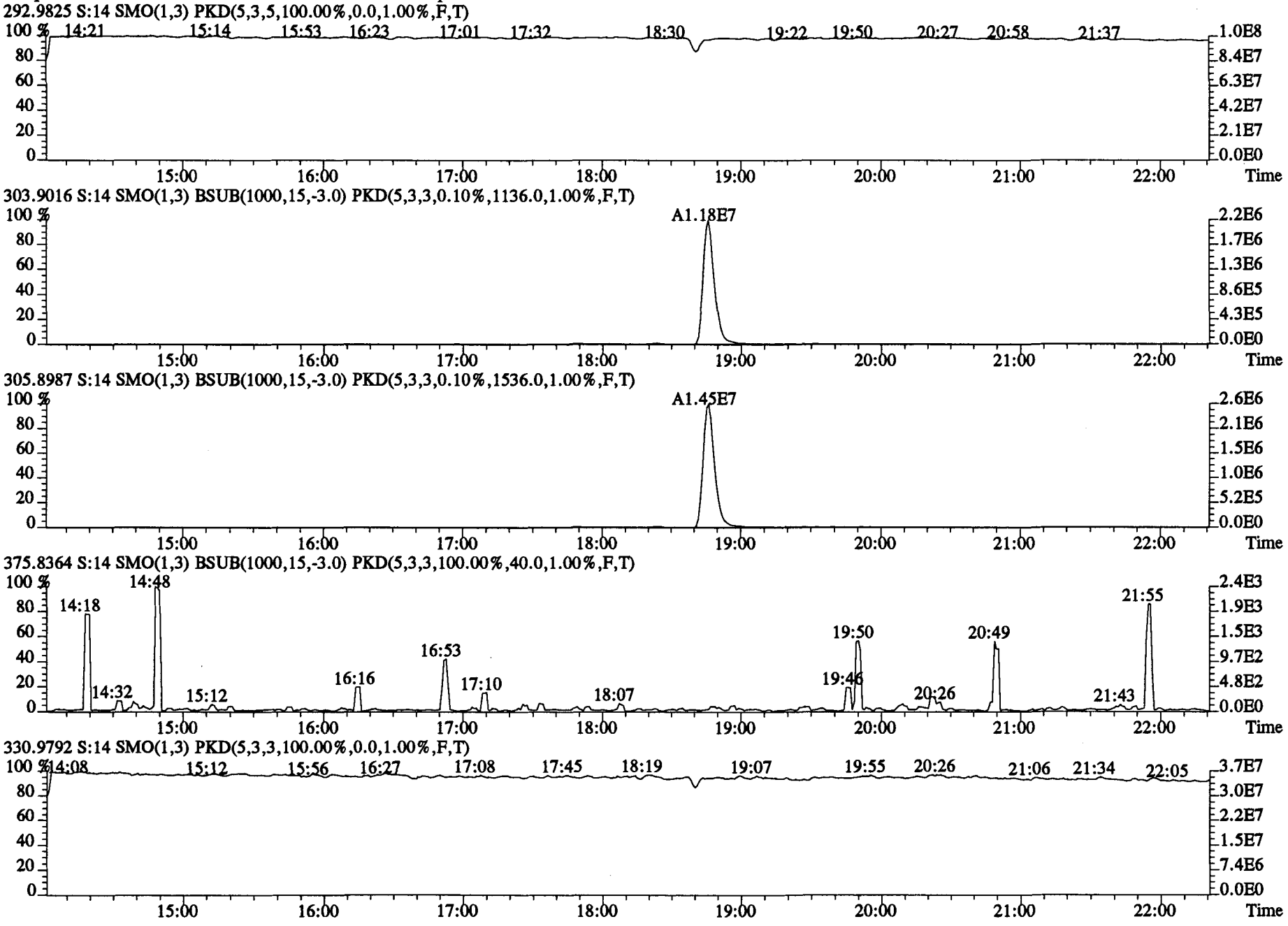
469.7779 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2892.0,1.00%,F,T)



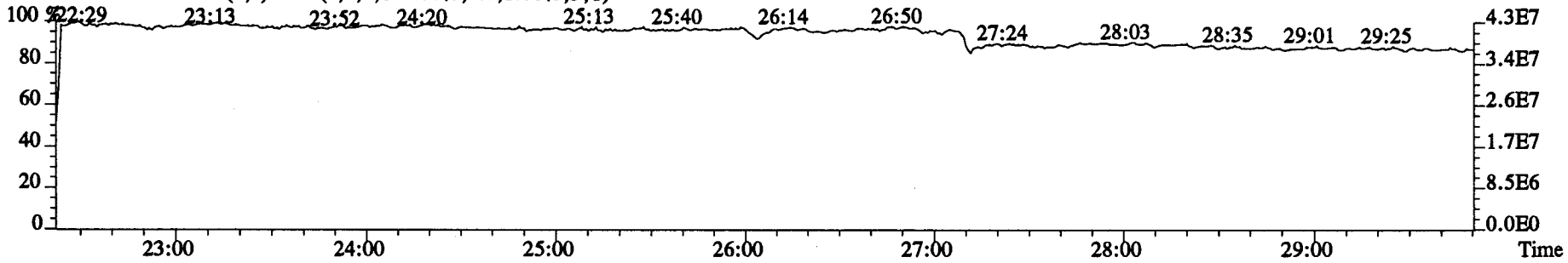
471.7750 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2488.0,1.00%,F,T)



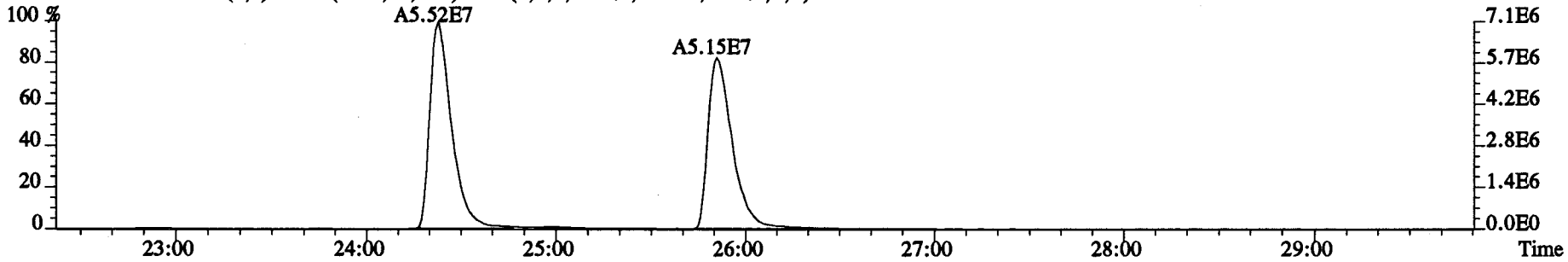
File:17FE104D5 #1-578 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN



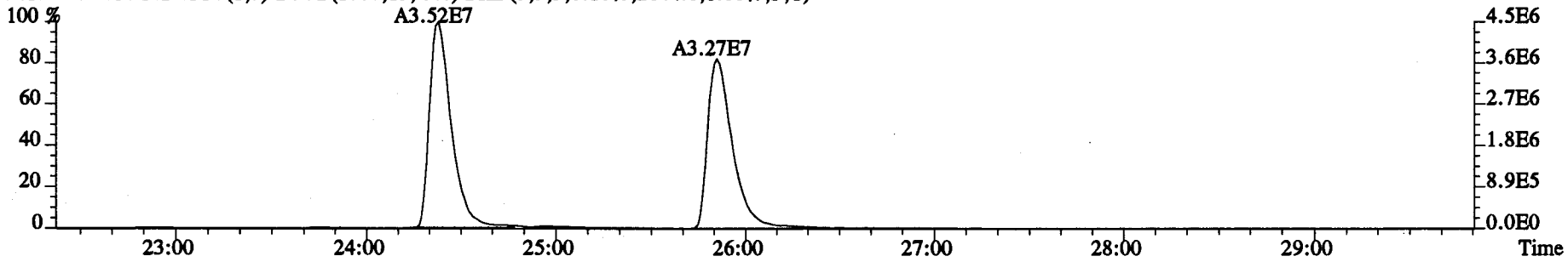
File:17FE104D5 #1-596 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN
342.9792 S:14 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



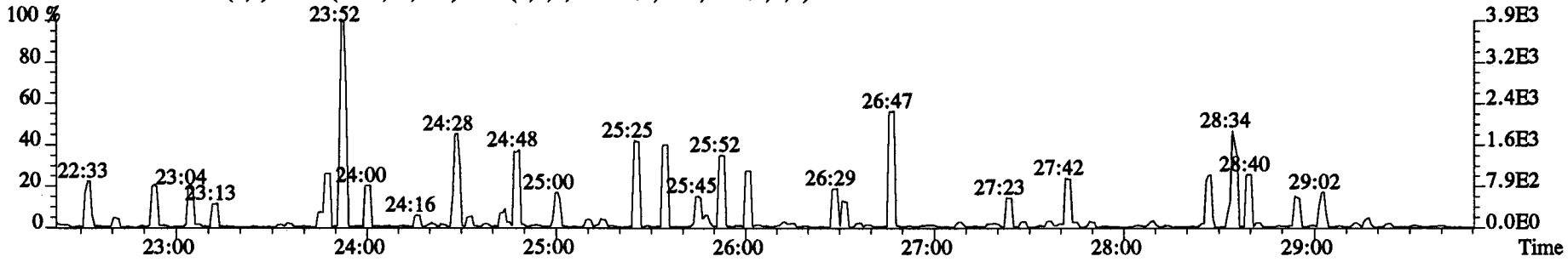
339.8597 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4132.0,1.00%,F,T)



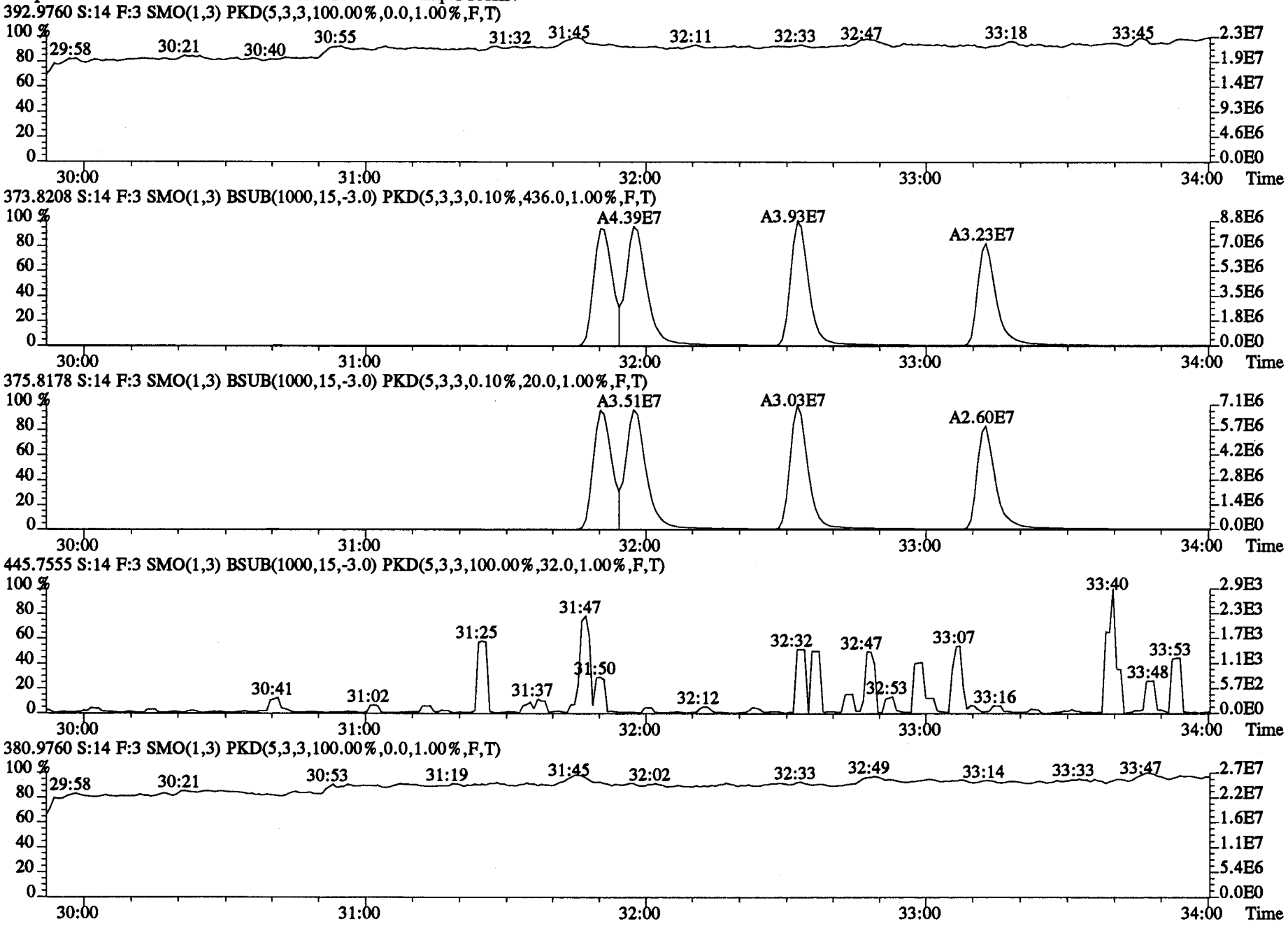
341.8567 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2644.0,1.00%,F,T)



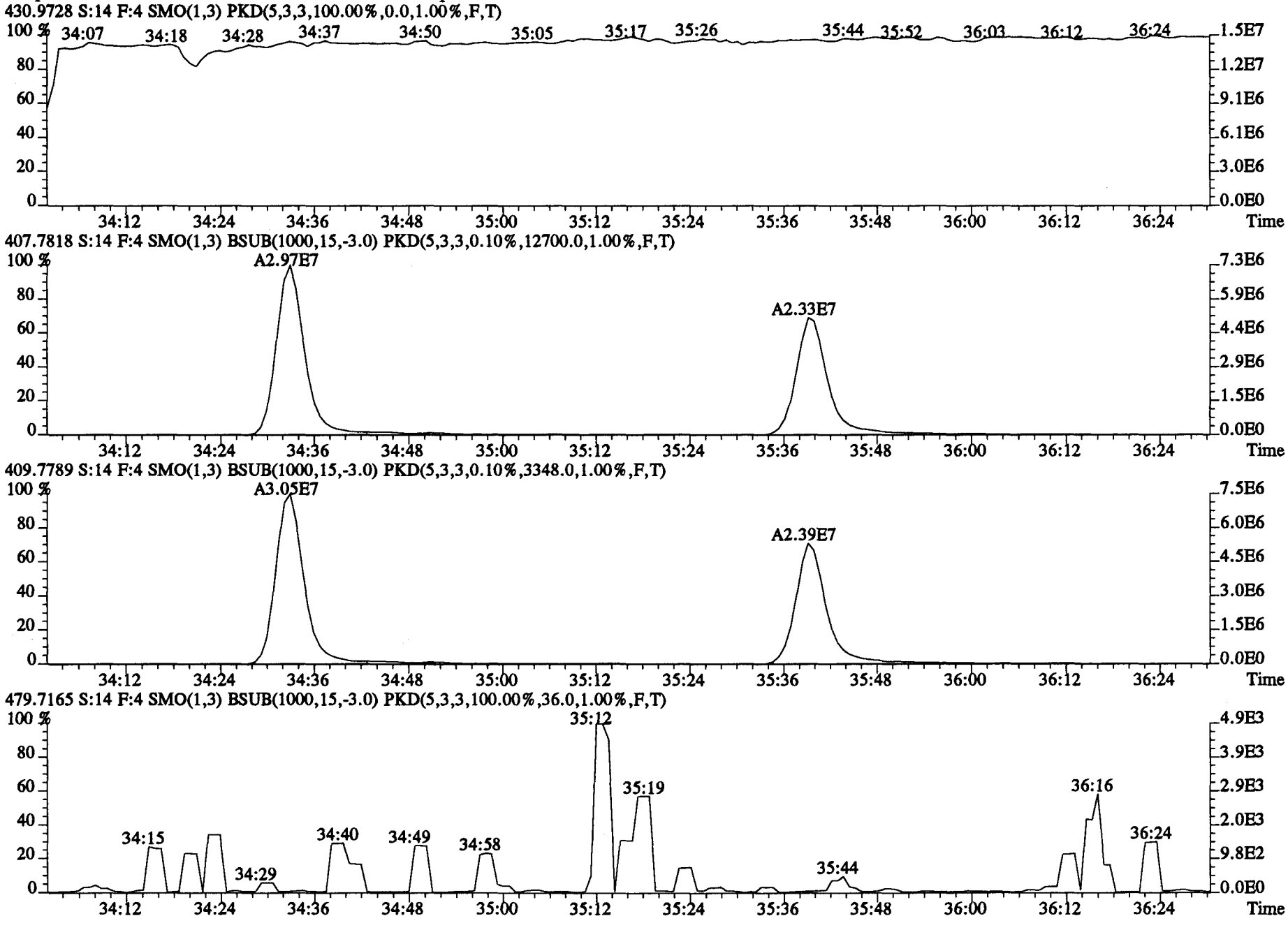
409.7974 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,32.0,1.00%,F,T)



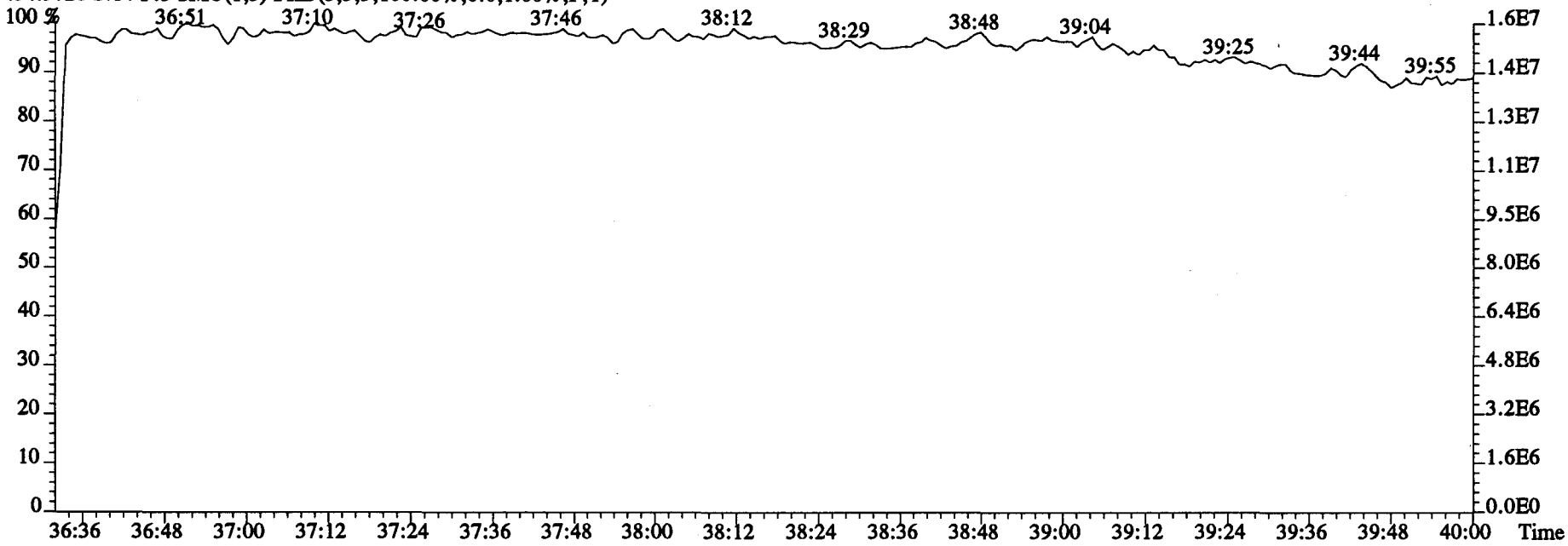
File:17FE104D5 #1-314 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN



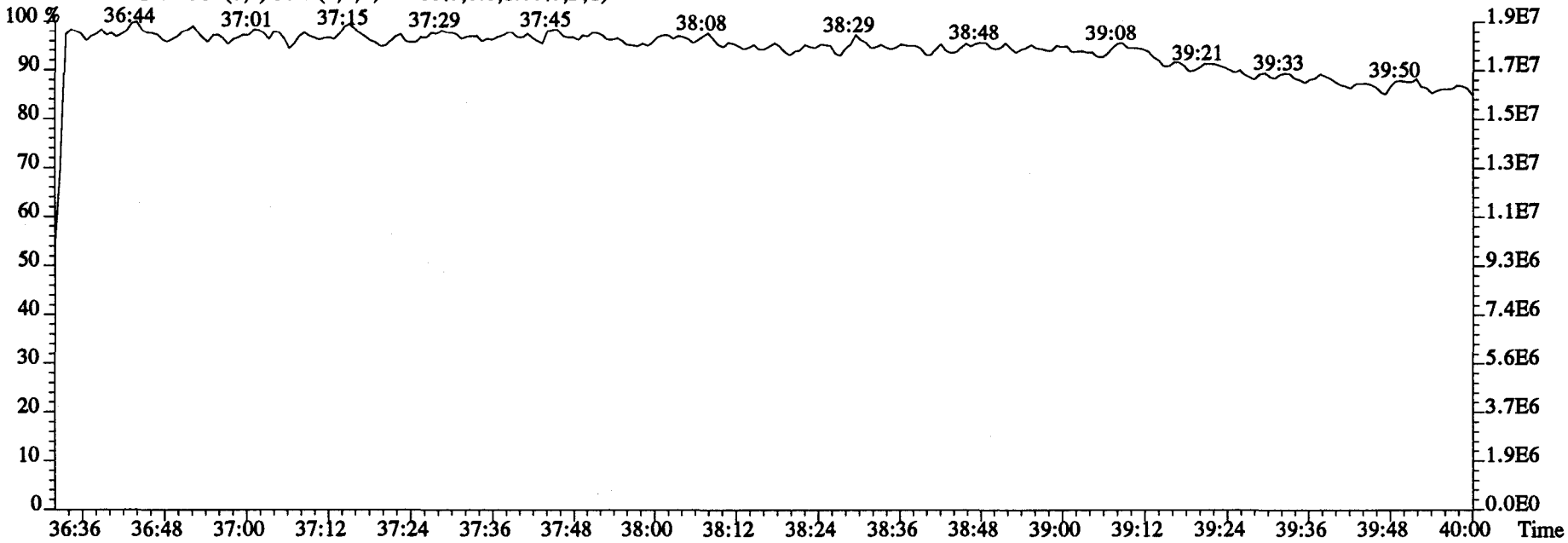
File:17FE104D5 #1-198 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN



File:17FE104D5 #1-281 Acq:17-FEB-2010 19:06:14 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:ST0217A :CS3 09DXN425 Exp:DIOXIN
454.9728 S:14 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:14 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

Test America – West Sacramento

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Initial Calibration Checklist
Dioxin Methods

ICAL ID (8290,1613,Tetras,TO9,23,0023A) 0204104D5

Method ID 8290,1613B,Tetras,TO9,M23,0023A Date Scanned _____

Column ID DB5 Instrument ID 4D5

STD ID's STO204, STO204A → D STD Solution (09DXN) - 422,423,425,426,456

GC Program OCDD Multiplier Setting 410 kV

Analyzed By KSS Date Analyzed 02-04-10

Prepared By KSS Date Prepared 02-04-10

Reviewed By M.G. Date Reviewed 2/5/10

Curve summary present?	✓	✓
Hardcopies of chromatograms for CS1-CS5 present?	✓	✓
Copy of log-file present?	✓	✓
Static resolution check present?	✓	✓
Target file RT's correct?	✓	✓
%RSD within method-specified limits?*	✓	✓
Signal-to-noise criteria met?	✓	✓
Isotopic ratios within limits?	✓	✓
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
Manual reintegration's checked and hardcopies included?	✓	✓

COMMENTS:

ICAL Abs CS3 RS RT's = 19:24, 33:05

*Method 8290/TO9/M0023A: %RSD ≤20% for natives, ≤30% for labeled compounds; S/N≥10
Method 1613B: %RSD≤ 20% natives, ≤30% labeled compounds; S/N ≥10
Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N ≥ 2.5

N:\Hires\Forms\QA-384 Dioxins ICAL Checklist.doc QA-384 7/26/06 DAW

Run: 04FE104D5 Analyte: 8290 Cal: 82900204104D5

ST0204 :CS-3 09DXN425 ST0204A :CS-1 09DXN422 ST0204B :CS-2 09DXN423
ST0204C :CS-5 09DXN456 ST0204D :CS-4 09DXN426

Name	Mean	S. D.	%RSD	04FE104D5 S1 RRF1	04FE104D5 S2 RRF2	04FE104D5 S3 RRF3	04FE104D5 S4 RRF4	04FE104D5 S5 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.570	0.092	5.86 %	1.67	1.59	1.55	1.61	1.43
2,3,7,8-TCDF	1.052	0.051	4.86 %	1.09	0.98	1.02	1.09	1.08
Total TCDF	1.052	0.051	4.86 %	1.09	0.98	1.02	1.09	1.08
13C-2,3,7,8-TCDD	1.001	0.057	5.65 %	1.03	0.97	0.95	1.08	0.96
2,3,7,8-TCDD	1.054	0.050	4.70 %	1.08	1.02	0.99	1.11	1.08
Total TCDD	1.054	0.050	4.70 %	1.08	1.02	0.99	1.11	1.08
37Cl-2,3,7,8-TCDD	2.416	0.164	6.77 %	2.42	2.35	2.25	2.69	2.36
13C-1,2,3,7,8-PeCDF	1.337	0.127	9.47 %	1.38	1.26	1.23	1.54	1.27
1,2,3,7,8-PeCDF	1.070	0.057	5.34 %	1.12	0.99	1.04	1.09	1.12
2,3,4,7,8-PeCDF	1.036	0.054	5.21 %	1.08	0.97	0.99	1.06	1.09
Total F2 PeCDF	1.053	0.055	5.24 %	1.10	0.98	1.01	1.07	1.10
Total F1 PeCDF	1.053	0.055	5.24 %	1.10	0.98	1.01	1.07	1.10
13C-1,2,3,7,8-PeCDD	0.812	0.084	10.4 %	0.86	0.77	0.74	0.94	0.76
1,2,3,7,8-PeCDD	1.038	0.067	6.47 %	1.03	0.95	1.00	1.09	1.11
Total PeCDD	1.038	0.067	6.47 %	1.03	0.95	1.00	1.09	1.11
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.015	0.057	5.60 %	1.03	1.03	0.98	1.09	0.94
1,2,3,4,7,8-HxCDF	1.239	0.064	5.14 %	1.28	1.15	1.20	1.28	1.30
1,2,3,6,7,8-HxCDF	1.490	0.054	3.63 %	1.52	1.43	1.48	1.46	1.57
2,3,4,6,7,8-HxCDF	1.339	0.065	4.85 %	1.37	1.25	1.32	1.32	1.43
1,2,3,7,8,9-HxCDF	1.220	0.092	7.58 %	1.24	1.08	1.19	1.25	1.34
Total HxCDF	1.322	0.066	5.00 %	1.35	1.23	1.30	1.33	1.41
13C-1,2,3,6,7,8-HxCDD	0.884	0.041	4.68 %	0.88	0.88	0.89	0.95	0.83
1,2,3,4,7,8-HxCDD	0.903	0.090	10.0 %	1.00	0.81	0.81	0.92	0.98

1,2,3,6,7,8-HxCDD	1.190	0.048	4.00 %	1.17	1.17	1.14	1.20	1.26
1,2,3,7,8,9-HxCDD	1.158	0.110	9.51 %	1.22	1.01	1.08	1.20	1.28
Total HxCDD	1.083	0.078	7.16 %	1.13	1.00	1.01	1.11	1.18
13C-1,2,3,4,6,7,8-HpCDF	0.945	0.040	4.25 %	0.97	0.95	0.92	1.00	0.89
1,2,3,4,6,7,8-HpCDF	1.299	0.053	4.10 %	1.35	1.24	1.25	1.31	1.35
1,2,3,4,7,8,9-HpCDF	1.102	0.071	6.42 %	1.17	1.01	1.04	1.13	1.15
Total HpCDF	1.200	0.062	5.15 %	1.26	1.12	1.15	1.22	1.25
13C-1,2,3,4,6,7,8-HpCDD	0.793	0.040	5.08 %	0.82	0.79	0.76	0.85	0.75
1,2,3,4,6,7,8-HpCDD	1.056	0.061	5.82 %	1.08	0.96	1.03	1.09	1.12
Total HpCDD	1.056	0.061	5.82 %	1.08	0.96	1.03	1.09	1.12
13C-OCDD	0.582	0.046	7.84 %	0.61	0.57	0.54	0.65	0.54
OCDF	1.558	0.101	6.46 %	1.56	1.43	1.49	1.63	1.68
OCDD	1.193	0.056	4.70 %	1.21	1.11	1.16	1.22	1.26

Run #1 Filename 04FE104D5 S: 1 I: 1
Acquired: 4-FEB-10 09:42:23 Processed: 4-FEB-10 13:22:03
Run: 04FE104D5 Analyte: 8290 Cal: 82900204104D5
Comments:
Sample text: ST0204 :CS-3 09DXN425

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	189539200	0.81	y	19:24	-	100.00	n
13C-2,3,7,8-TCDF	317104000	0.80	y	18:50	1.6730	100.00	n
2,3,7,8-TCDF	34666400	0.77	y	18:52	1.0932	10.00	n
Total TCDF	-	-	n	-	1.0932	10.00	n
13C-2,3,7,8-TCDD	196066400	0.81	y	19:38	1.0344	100.00	n
2,3,7,8-TCDD	21159740	0.80	y	19:38	1.0792	10.00	n
Total TCDD	-	-	n	-	1.0792	10.00	n
37Cl-2,3,7,8-TCDD	45936600	1.00	y	19:38	2.4236	10.00	n
13C-1,2,3,7,8-PeCDF	261875000	1.62	y	24:30	1.3816	100.00	n
1,2,3,7,8-PeCDF	146433400	1.57	y	24:31	1.1183	50.00	n
2,3,4,7,8-PeCDF	141427200	1.56	y	26:00	1.0801	50.00	n
Total F2 PeCDF	-	-	n	-	1.0992	100.00	n
Total F1 PeCDF	-	-	n	-	1.0992	100.00	n
13C-1,2,3,7,8-PeCDD	163034900	1.56	y	26:47	0.8602	100.00	n
1,2,3,7,8-PeCDD	84173600	1.59	y	26:48	1.0326	50.00	n
Total PeCDD	-	-	n	-	1.0326	50.00	n
13C-1,2,3,7,8,9-HxCDD	192024700	1.28	y	33:05	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	198335800	0.53	y	31:54	1.0329	100.00	n
1,2,3,4,7,8-HxCDF	126685400	1.22	y	31:55	1.2775	50.00	n
1,2,3,6,7,8-HxCDF	150675100	1.24	y	32:02	1.5194	50.00	n
2,3,4,6,7,8-HxCDF	135577900	1.22	y	32:37	1.3672	50.00	n
1,2,3,7,8,9-HxCDF	123051700	1.23	y	33:16	1.2408	50.00	n
Total HxCDF	-	-	n	-	1.3512	200.00	n
13C-1,2,3,6,7,8-HxCDD	168632300	1.28	y	32:49	0.8782	100.00	n
1,2,3,4,7,8-HxCDD	83924500	1.26	y	32:45	0.9954	50.00	n
1,2,3,6,7,8-HxCDD	98833700	1.28	y	32:49	1.1722	50.00	n
1,2,3,7,8,9-HxCDD	102764300	1.25	y	33:06	1.2188	50.00	n
Total HxCDD	-	-	n	-	1.1288	150.00	n
13C-1,2,3,4,6,7,8-HpCDF	185458700	0.45	y	34:36	0.9658	100.00	n
1,2,3,4,6,7,8-HpCDF	125289400	0.97	y	34:36	1.3511	50.00	n
1,2,3,4,7,8,9-HpCDF	108908000	0.96	y	35:43	1.1745	50.00	n
Total HpCDF	-	-	n	-	1.2628	100.00	n
13C-1,2,3,4,6,7,8-HpCDD	156732500	1.06	y	35:23	0.8162	100.00	n
1,2,3,4,6,7,8-HpCDD	84887300	1.06	y	35:24	1.0832	50.00	n
Total HpCDD	-	-	n	-	1.0832	50.00	n
13C-OCDD	232720000	0.91	y	37:52	0.6060	200.00	n
OCDF	181605400	0.91	y	37:59	1.5607	100.00	n

OCDD	141182300	0.89	y	37:53	1.2133	100.00	n

Run #2 Filename 04FE104D5 S: 2 I: 1
Acquired: 4-FEB-10 10:26:20 Processed: 4-FEB-10 13:22:03
Run: 04FE104D5 Analyte: 8290 Cal: 82900204104D5
Comments:
Sample text: ST0204A :CS-1 09DXN422

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	149053200	0.83	y	19:23	-	100.00	n
13C-2,3,7,8-TCDF	237038000	0.79	y	18:50	1.5903	100.00	n
2,3,7,8-TCDF	1160135	0.71	y	18:52	0.9789	0.50	n
Total TCDF	-	-	n	-	0.9789	0.50	n
13C-2,3,7,8-TCDD	144961800	0.81	y	19:38	0.9726	100.00	n
2,3,7,8-TCDD	735811	0.77	y	19:39	1.0152	0.50	n
Total TCDD	-	-	n	-	1.0152	0.50	n
37Cl-2,3,7,8-TCDD	1754072	1.00	y	19:39	2.3536	0.50	n
13C-1,2,3,7,8-PeCDF	188115200	1.58	y	24:31	1.2621	100.00	n
1,2,3,7,8-PeCDF	4637450	1.54	y	24:33	0.9861	2.50	n
2,3,4,7,8-PeCDF	4561930	1.56	y	26:02	0.9700	2.50	n
Total F2 PeCDF	-	-	n	-	0.9781	5.00	n
Total F1 PeCDF	-	-	n	-	0.9781	5.00	n
13C-1,2,3,7,8-PeCDD	114187300	1.61	y	26:49	0.7661	100.00	n
1,2,3,7,8-PeCDD	2712120	1.50	y	26:50	0.9501	2.50	n
Total PeCDD	-	-	n	-	0.9501	2.50	n
13C-1,2,3,7,8,9-HxCDD	132059800	1.26	y	33:04	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	136430500	0.52	y	31:55	1.0331	100.00	n
1,2,3,4,7,8-HxCDF	3919980	1.24	y	31:55	1.1493	2.50	n
1,2,3,6,7,8-HxCDF	4866840	1.20	y	32:02	1.4269	2.50	n
2,3,4,6,7,8-HxCDF	4280340	1.22	y	32:36	1.2550	2.50	n
1,2,3,7,8,9-HxCDF	3697350	1.22	y	33:16	1.0840	2.50	n
Total HxCDF	-	-	n	-	1.2288	10.00	n
13C-1,2,3,6,7,8-HxCDD	115745500	1.28	y	32:49	0.8765	100.00	y ✓
1,2,3,4,7,8-HxCDD	2347230	1.26	y	32:44	0.8112	2.50	n
1,2,3,6,7,8-HxCDD	3396940	1.22	y	32:49	1.1739	2.50	n
1,2,3,7,8,9-HxCDD	2927450	1.11	y	33:05	1.0117	2.50	n
Total HxCDD	-	-	n	-	0.9989	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	125104300	0.44	y	34:36	0.9473	100.00	n
1,2,3,4,6,7,8-HpCDF	3862910	0.99	y	34:36	1.2351	2.50	n
1,2,3,4,7,8,9-HpCDF	3171750	0.95	y	35:43	1.0141	2.50	n
Total HpCDF	-	-	n	-	1.1246	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	104154400	1.08	y	35:23	0.7887	100.00	n
1,2,3,4,6,7,8-HpCDD	2502480	1.08	y	35:24	0.9611	2.50	n
Total HpCDD	-	-	n	-	0.9611	2.50	n
13C-OCDD	151506800	0.92	y	37:52	0.5736	200.00	n
OCDF	5408900	0.92	y	37:59	1.4280	5.00	n

OCDD	4220230	0.90 y	37:53	1.1142	5.00	n

Run #2 Filename 04FE104D5 S: 2 I: 1
Acquired: 4-FEB-10 10:26:20 Processed: 4-FEB-10 13:22:03
Run: 04FE104D5 Analyte: 8290 Cal: 82900204104D5
Comments:
Sample text: ST0204A :CS-1 09DXN422

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	149053200	0.83	y	19:23	-	100.00	n
13C-2,3,7,8-TCDF	237038000	0.79	y	18:50	1.5903	100.00	n
2,3,7,8-TCDF	1160135	0.71	y	18:52	0.9789	0.50	n
Total TCDF	-	-	n	-	0.9789	0.50	n
13C-2,3,7,8-TCDD	144961800	0.81	y	19:38	0.9726	100.00	n
2,3,7,8-TCDD	735811	0.77	y	19:39	1.0152	0.50	n
Total TCDD	-	-	n	-	1.0152	0.50	n
37Cl-2,3,7,8-TCDD	1754072	1.00	y	19:39	2.3536	0.50	n
13C-1,2,3,7,8-PeCDF	188115200	1.58	y	24:31	1.2621	100.00	n
1,2,3,7,8-PeCDF	4637450	1.54	y	24:33	0.9861	2.50	n
2,3,4,7,8-PeCDF	4561930	1.56	y	26:02	0.9700	2.50	n
Total F2 PeCDF	-	-	n	-	0.9781	5.00	n
Total F1 PeCDF	-	-	n	-	0.9781	5.00	n
13C-1,2,3,7,8-PeCDD	114187300	1.61	y	26:49	0.7661	100.00	n
1,2,3,7,8-PeCDD	2712120	1.50	y	26:50	0.9501	2.50	n
Total PeCDD	-	-	n	-	0.9501	2.50	n
13C-1,2,3,7,8,9-HxCDD	132059800	1.26	y	33:04	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	136430500	0.52	y	31:55	1.0331	100.00	n
1,2,3,4,7,8-HxCDF	3919980	1.24	y	31:55	1.1493	2.50	n
1,2,3,6,7,8-HxCDF	4866840	1.20	y	32:02	1.4269	2.50	n
2,3,4,6,7,8-HxCDF	4280340	1.22	y	32:36	1.2550	2.50	n
1,2,3,7,8,9-HxCDF	3697350	1.22	y	33:16	1.0840	2.50	n
Total HxCDF	-	-	n	-	1.2288	10.00	n
13C-1,2,3,6,7,8-HxCDD	115477300	1.15	y	32:49	0.8744	100.00	n
1,2,3,4,7,8-HxCDD	2347230	1.26	y	32:44	0.8131	2.50	n
1,2,3,6,7,8-HxCDD	3396940	1.22	y	32:49	1.1767	2.50	n
1,2,3,7,8,9-HxCDD	2927450	1.11	y	33:05	1.0140	2.50	n
Total HxCDD	-	-	n	-	1.0012	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	125104300	0.44	y	34:36	0.9473	100.00	n
1,2,3,4,6,7,8-HpCDF	3862910	0.99	y	34:36	1.2351	2.50	n
1,2,3,4,7,8,9-HpCDF	3171750	0.95	y	35:43	1.0141	2.50	n
Total HpCDF	-	-	n	-	1.1246	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	104154400	1.08	y	35:23	0.7887	100.00	n
1,2,3,4,6,7,8-HpCDD	2502480	1.08	y	35:24	0.9611	2.50	n
Total HpCDD	-	-	n	-	0.9611	2.50	n
13C-OCDD	151506800	0.92	y	37:52	0.5736	200.00	n
OCDF	5408900	0.92	y	37:59	1.4280	5.00	n
OCDD	4220230	0.90	y	37:53	1.1142	5.00	n

Run #3 Filename 04FE104D5 S: 3 I: 1
Acquired: 4-FEB-10 11:10:23 Processed: 4-FEB-10 13:22:04
Run: 04FE104D5 Analyte: 8290 Cal: 82900204104D5
Comments:
Sample text: ST0204B :CS-2 09DXN423

Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	119443600	0.81	y	19:23	-	100.00	n
13C-2,3,7,8-TCDF	184895500	0.78	y	18:50	1.5480	100.00	n
2,3,7,8-TCDF	3767230	0.82	y	18:51	1.0187	2.00	n
Total TCDF	-	-	n	-	1.0187	2.00	n
13C-2,3,7,8-TCDD	113971500	0.82	y	19:38	0.9542	100.00	n
2,3,7,8-TCDD	2253860	0.86	y	19:39	0.9888	2.00	n
Total TCDD	-	-	n	-	0.9888	2.00	n
37Cl-2,3,7,8-TCDD	5379700	1.00	y	19:39	2.2520	2.00	n
13C-1,2,3,7,8-PeCDF	147396100	1.61	y	24:32	1.2340	100.00	n
1,2,3,7,8-PeCDF	15277420	1.58	y	24:33	1.0365	10.00	n
2,3,4,7,8-PeCDF	14567090	1.54	y	26:02	0.9883	10.00	n
Total F2 PeCDF	-	-	n	-	1.0124	20.00	n
Total F1 PeCDF	-	-	n	-	1.0124	20.00	n
13C-1,2,3,7,8-PeCDD	88219000	1.64	y	26:50	0.7386	100.00	n
1,2,3,7,8-PeCDD	8822860	1.54	y	26:50	1.0001	10.00	n
Total PeCDD	-	-	n	-	1.0001	10.00	n
13C-1,2,3,7,8,9-HxCDD	106001600	1.28	y	33:05	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	104159500	0.52	y	31:55	0.9826	100.00	n
1,2,3,4,7,8-HxCDF	12456270	1.22	y	31:56	1.1959	10.00	n
1,2,3,6,7,8-HxCDF	15409960	1.22	y	32:02	1.4795	10.00	n
2,3,4,6,7,8-HxCDF	13773430	1.21	y	32:37	1.3223	10.00	n
1,2,3,7,8,9-HxCDF	12390480	1.21	y	33:16	1.1896	10.00	n
Total HxCDF	-	-	n	-	1.2968	40.00	n
13C-1,2,3,6,7,8-HxCDD	94225700	1.25	y	32:48	0.8889	100.00	n
1,2,3,4,7,8-HxCDD	7594000	1.27	y	32:44	0.8059	10.00	n
1,2,3,6,7,8-HxCDD	10710000	1.29	y	32:49	1.1366	10.00	n
1,2,3,7,8,9-HxCDD	10153830	1.27	y	33:06	1.0776	10.00	n
Total HxCDD	-	-	n	-	1.0067	30.00	n
13C-1,2,3,4,6,7,8-HpCDF	97712400	0.43	y	34:35	0.9218	100.00	n
1,2,3,4,6,7,8-HpCDF	12228700	0.94	y	34:36	1.2515	10.00	n
1,2,3,4,7,8,9-HpCDF	10148100	0.93	y	35:43	1.0386	10.00	n
Total HpCDF	-	-	n	-	1.1450	20.00	n
13C-1,2,3,4,6,7,8-HpCDD	80860300	1.08	y	35:23	0.7628	100.00	n
1,2,3,4,6,7,8-HpCDD	8329100	1.07	y	35:24	1.0301	10.00	n
Total HpCDD	-	-	n	-	1.0301	10.00	n
13C-OCDD	114322200	0.93	y	37:52	0.5392	200.00	n
OCDF	17074150	0.92	y	37:59	1.4935	20.00	n
OCDD	13280390	0.85	y	37:53	1.1617	20.00	n

Run #4 Filename 04FE104D5 S: 4 I: 1
Acquired: 4-FEB-10 11:54:32 Processed: 4-FEB-10 13:22:05
Run: 04FE104D5 Analyte: 8290 Cal: 82900204104D5
Comments:
Sample text: ST0204C :CS-5 09DXN456

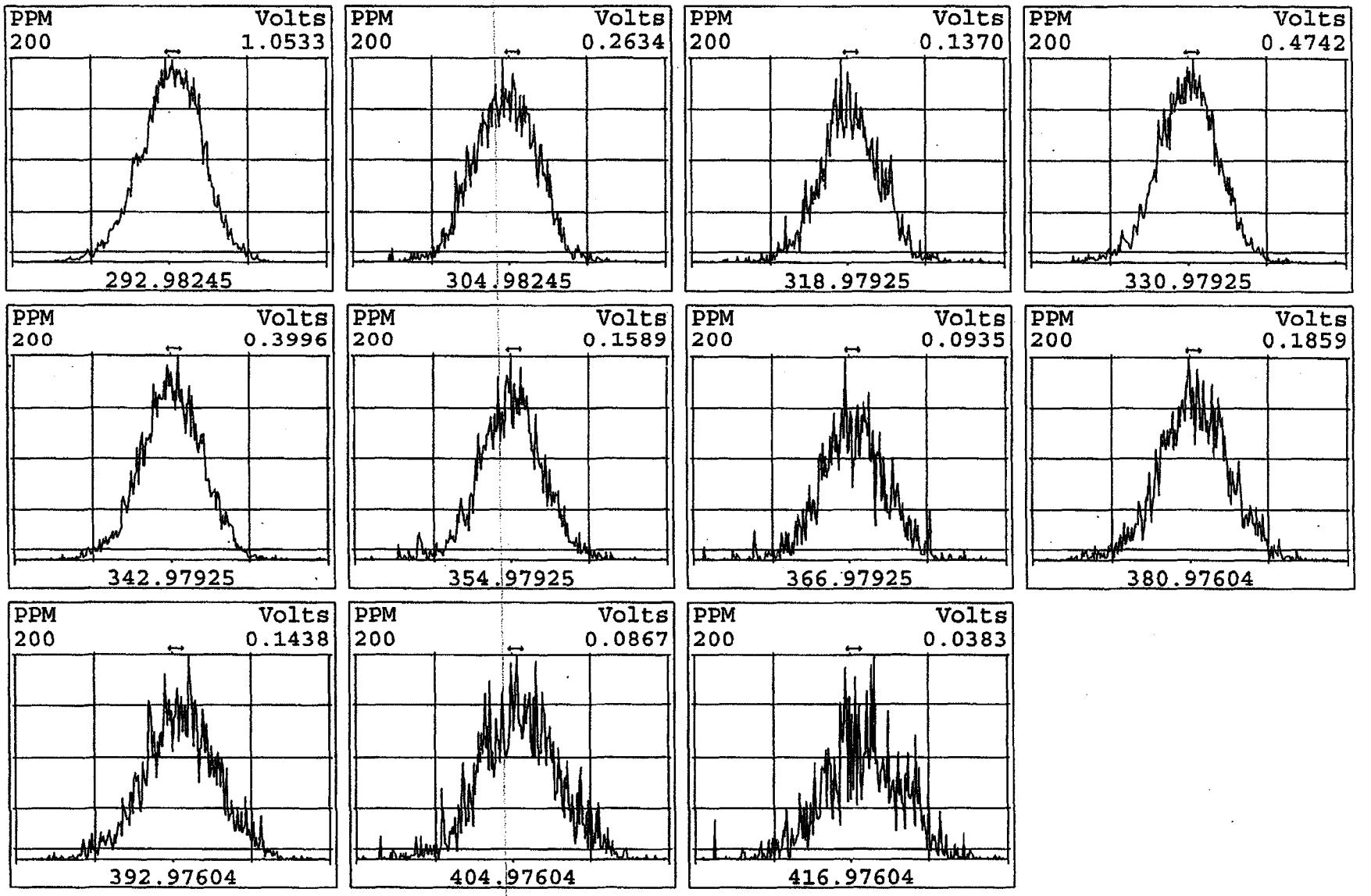
Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	173717900	0.83	y	19:23	-	100.00	n
13C-2,3,7,8-TCDF	280340000	0.78	y	18:49	1.6138	100.00	n
2,3,7,8-TCDF	612197000	0.75	y	18:51	1.0919	200.00	n
Total TCDF	-	-	n	-	1.0919	200.00	n
13C-2,3,7,8-TCDD	188346700	0.82	y	19:36	1.0842	100.00	n
2,3,7,8-TCDD	416662000	0.81	y	19:37	1.1061	200.00	n
Total TCDD	-	-	n	-	1.1061	200.00	n
37Cl-2,3,7,8-TCDD	933520000	1.00	y	19:37	2.6869	200.00	n
13C-1,2,3,7,8-PeCDF	267395000	1.60	y	24:28	1.5392	100.00	n
1,2,3,7,8-PeCDF	2917600000	1.54	y	24:30	1.0911	1000.00	n
2,3,4,7,8-PeCDF	2821390000	1.53	y	25:59	1.0551	1000.00	n
Total F2 PeCDF	-	-	n	-	1.0731	2000.00	n
Total F1 PeCDF	-	-	n	-	1.0731	2000.00	n
13C-1,2,3,7,8-PeCDD	162818900	1.62	y	26:45	0.9373	100.00	n
1,2,3,7,8-PeCDD	1778462000	1.61	y	26:47	1.0923	1000.00	n
Total PeCDD	-	-	n	-	1.0923	1000.00	n
13C-1,2,3,7,8,9-HxCDD	188905200	1.29	y	33:04	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	205334300	0.52	y	31:54	1.0870	100.00	n
1,2,3,4,7,8-HxCDF	2623970000	1.27	y	31:54	1.2779	1000.00	n
1,2,3,6,7,8-HxCDF	2995860000	1.18	y	32:01	1.4590	1000.00	n
2,3,4,6,7,8-HxCDF	2711600000	1.21	y	32:36	1.3206	1000.00	n
1,2,3,7,8,9-HxCDF	2564680000	1.22	y	33:15	1.2490	1000.00	n
Total HxCDF	-	-	n	-	1.3266	4000.00	n
13C-1,2,3,6,7,8-HxCDD	178668900	1.29	y	32:47	0.9458	100.00	n
1,2,3,4,7,8-HxCDD	1643209000	1.25	y	32:44	0.9197	1000.00	n
1,2,3,6,7,8-HxCDD	2150479000	1.28	y	32:48	1.2036	1000.00	n
1,2,3,7,8,9-HxCDD	2142360000	1.27	y	33:05	1.1991	1000.00	n
Total HxCDD	-	-	n	-	1.1075	3000.00	n
13C-1,2,3,4,6,7,8-HpCDF	188302900	0.45	y	34:35	0.9968	100.00	n
1,2,3,4,6,7,8-HpCDF	2469880000	0.96	y	34:35	1.3117	1000.00	n
1,2,3,4,7,8,9-HpCDF	2135880000	0.95	y	35:42	1.1343	1000.00	n
Total HpCDF	-	-	n	-	1.2230	2000.00	n
13C-1,2,3,4,6,7,8-HpCDD	160228900	1.08	y	35:23	0.8482	100.00	n
1,2,3,4,6,7,8-HpCDD	1747543000	1.05	y	35:23	1.0907	1000.00	n
Total HpCDD	-	-	n	-	1.0907	1000.00	n
13C-OCDD	244764000	0.94	y	37:52	0.6478	200.00	n
OCDF	3982740000	0.91	y	37:58	1.6272	2000.00	n
OCDD	2979250000	0.88	y	37:52	1.2172	2000.00	n

Run #5 Filename 04FE104D5 S: 5 I: 1
Acquired: 4-FEB-10 12:38:34 Processed: 4-FEB-10 13:22:05
Run: 04FE104D5 Analyte: 8290 Cal: 82900204104D5
Comments:
Sample text: ST0204D :CS-4 09DXN426

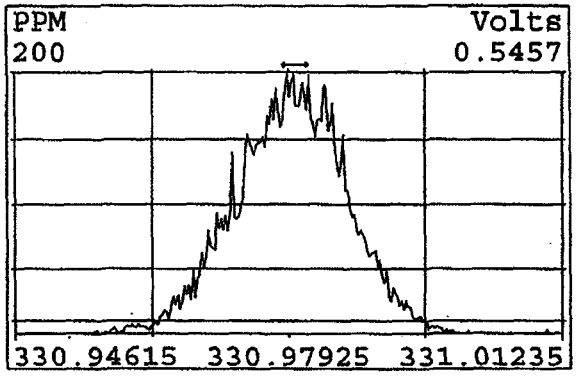
Name	Resp	RA		RT	RRF		Mod?
13C-1,2,3,4-TCDD	200569200	0.82	y	19:23	-	100.00	n
13C-2,3,7,8-TCDF	286249000	0.78	y	18:50	1.4272	100.00	n
2,3,7,8-TCDF	123538800	0.76	y	18:50	1.0789	40.00	n
Total TCDF	-	-	n	-	1.0789	40.00	n
13C-2,3,7,8-TCDD	192344200	0.82	y	19:36	0.9590	100.00	n
2,3,7,8-TCDD	83146500	0.80	y	19:38	1.0807	40.00	n
Total TCDD	-	-	n	-	1.0807	40.00	n
37Cl-2,3,7,8-TCDD	189544400	1.00	y	19:38	2.3626	40.00	n
13C-1,2,3,7,8-PeCDF	253987000	1.59	y	24:29	1.2663	100.00	n
1,2,3,7,8-PeCDF	566693000	1.55	y	24:30	1.1156	200.00	n
2,3,4,7,8-PeCDF	552768000	1.53	y	25:59	1.0882	200.00	n
Total F2 PeCDF	-	-	n	-	1.1019	400.00	n
Total F1 PeCDF	-	-	n	-	1.1019	400.00	n
13C-1,2,3,7,8-PeCDD	152080400	1.65	y	26:46	0.7582	100.00	n
1,2,3,7,8-PeCDD	339029000	1.61	y	26:47	1.1146	200.00	n
Total PeCDD	-	-	n	-	1.1146	200.00	n
13C-1,2,3,7,8,9-HxCDD	196662000	1.28	y	33:04	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	184325400	0.52	y	31:53	0.9373	100.00	n
1,2,3,4,7,8-HxCDF	478071000	1.20	y	31:54	1.2968	200.00	n
1,2,3,6,7,8-HxCDF	577346000	1.21	y	32:01	1.5661	200.00	n
2,3,4,6,7,8-HxCDF	527480000	1.23	y	32:35	1.4308	200.00	n
1,2,3,7,8,9-HxCDF	492635000	1.22	y	33:15	1.3363	200.00	n
Total HxCDF	-	-	n	-	1.4075	800.00	n
13C-1,2,3,6,7,8-HxCDD	163221000	1.30	y	32:47	0.8300	100.00	n
1,2,3,4,7,8-HxCDD	320189000	1.26	y	32:43	0.9808	200.00	n
1,2,3,6,7,8-HxCDD	412557000	1.29	y	32:48	1.2638	200.00	n
1,2,3,7,8,9-HxCDD	418266000	1.28	y	33:05	1.2813	200.00	n
Total HxCDD	-	-	n	-	1.1753	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	175463300	0.45	y	34:34	0.8922	100.00	n
1,2,3,4,6,7,8-HpCDF	472037000	0.96	y	34:35	1.3451	200.00	n
1,2,3,4,7,8,9-HpCDF	402257000	0.97	y	35:41	1.1463	200.00	n
Total HpCDF	-	-	n	-	1.2457	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	147236900	1.08	y	35:23	0.7487	100.00	n
1,2,3,4,6,7,8-HpCDD	328342000	1.04	y	35:23	1.1150	200.00	n
Total HpCDD	-	-	n	-	1.1150	200.00	n
13C-OCDD	213565000	0.94	y	37:51	0.5430	200.00	n
OCDF	717095000	0.91	y	37:58	1.6789	400.00	n
OCDD	537805000	0.89	y	37:52	1.2591	400.00	n

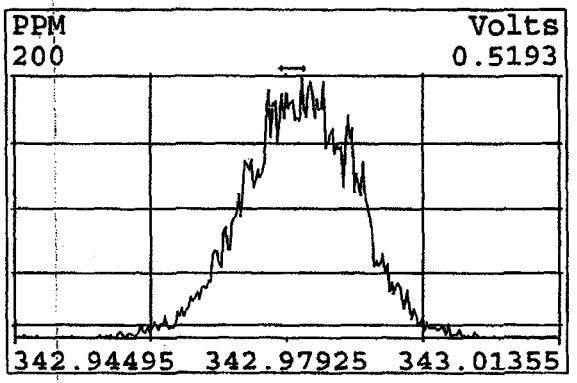
ata file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
04FE104D5	1	STO204	CS-3 09DXN425				1.00000	
04FE104D5	2	STO204A	CS-1 09DXN422				1.00000	
04FE104D5	3	STO204B	CS-2 09DXN423				1.00000	
04FE104D5	4	STO204C	CS-5 09DXN456				1.00000	
04FE104D5	5	STO204D	CS-4 09DXN426				1.00000	
04FE104D5	6	CPO204	DB-5 CPSM 3732-04				1.00000	
04FE104D5	7	STO204E	2nd Source 09DXN449				1.00000	
04FE104D5	8						1.00000	
04FE104D5	9						1.00000	
04FE104D5	10						1.00000	
04FE104D5	11						1.00000	
04FE104D5	12						1.00000	
04FE104D5	13						1.00000	
04FE104D5	14		KSS 02-04-10				1.00000	
04FE104D5	15						1.00000	

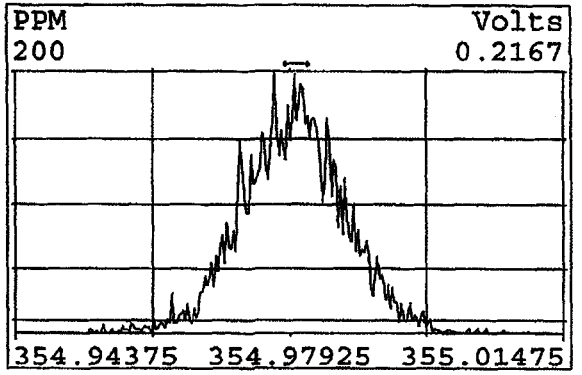
Peak Locate Examination: 4-FEB-2010:09:40 File:04FE104D5
Experiment:DIOXIN Function:1 Reference:PFK

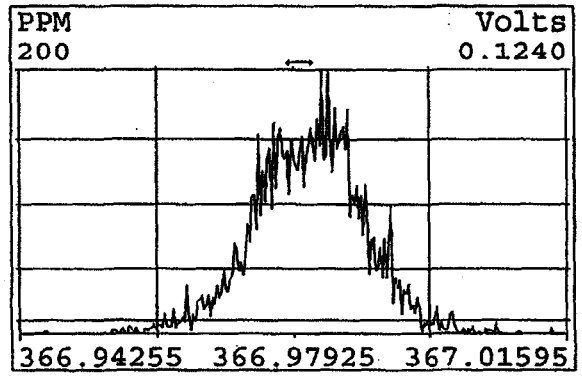


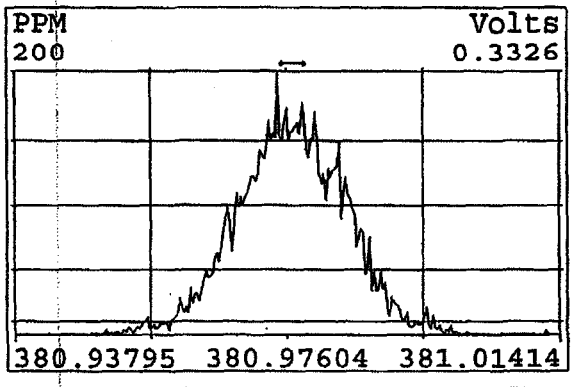
Peak Locate Examination: 4-FEB-2010:09:40 File:04FE104D5
Experiment:DIOXIN Function:2 Reference:PFK

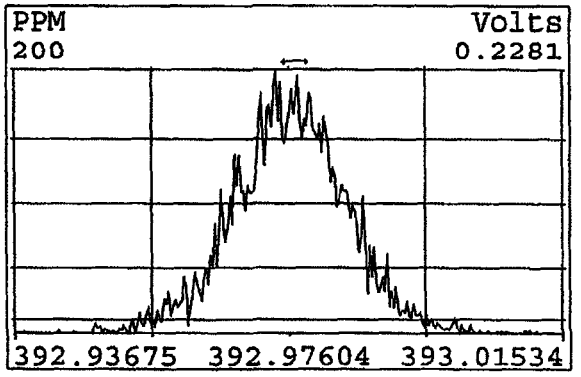


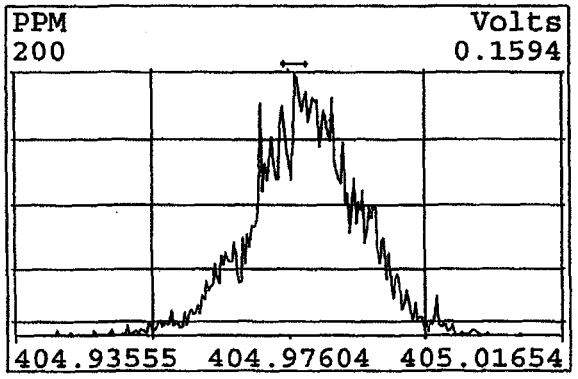


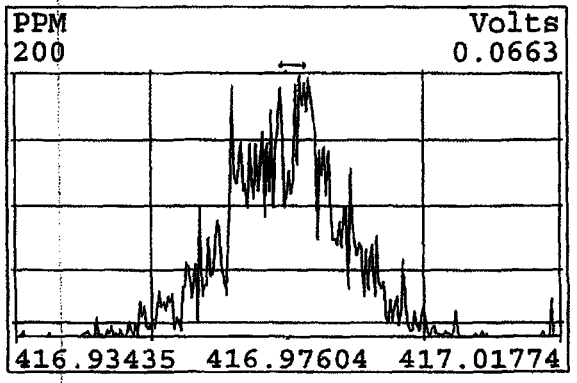




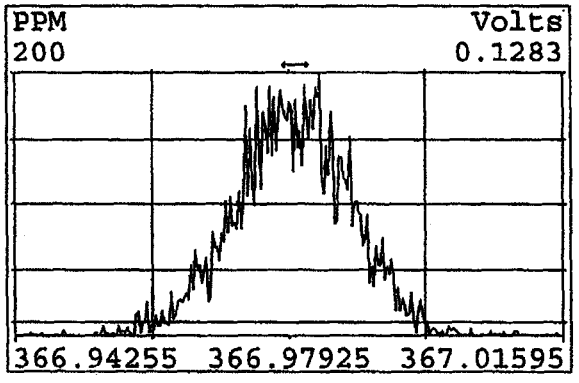


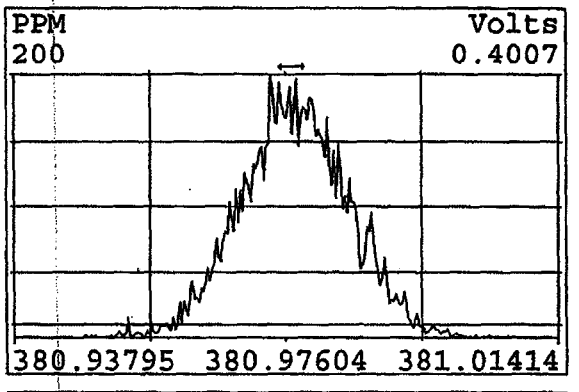


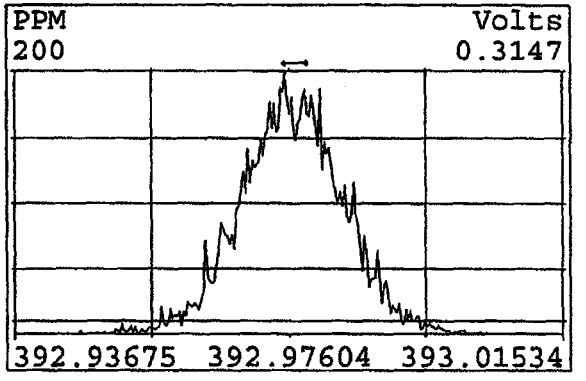


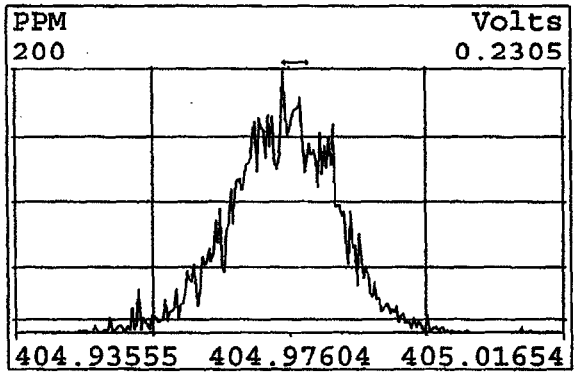


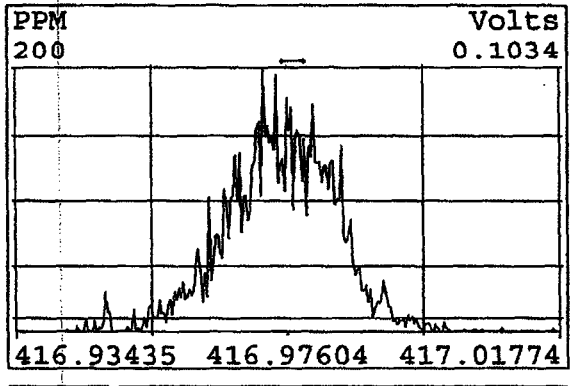
Peak Locate Examination: 4-FEB-2010:09:41 File:04FE104D5
Experiment:DIOXIN Function:3 Reference:PFK

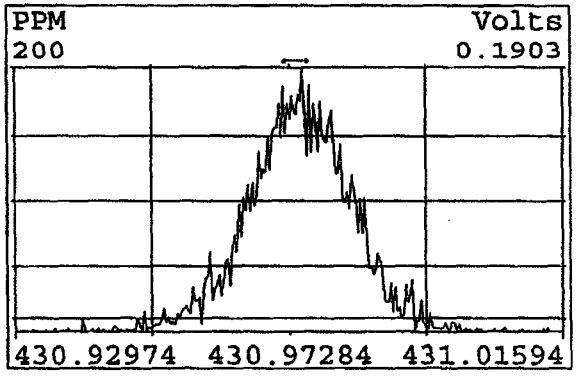


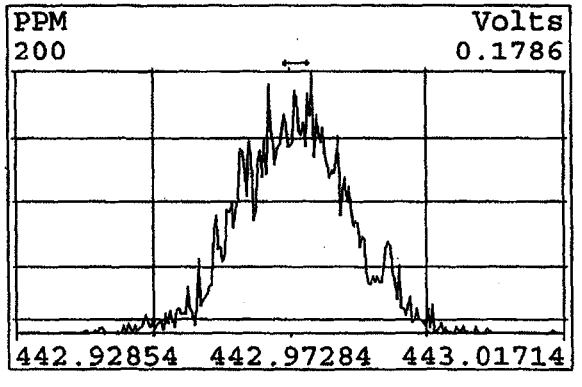


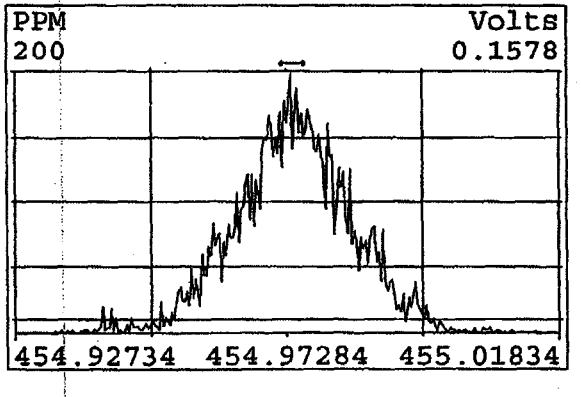




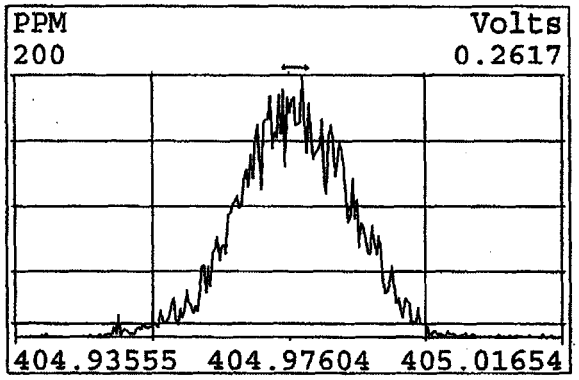


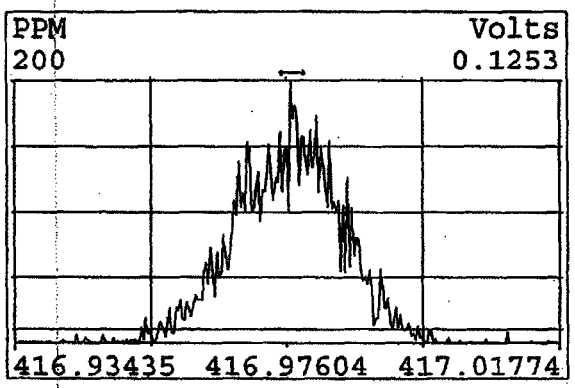


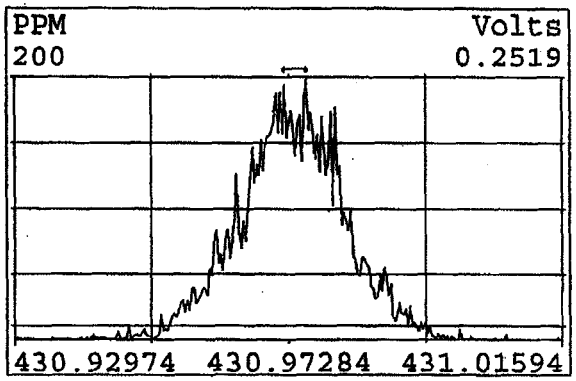


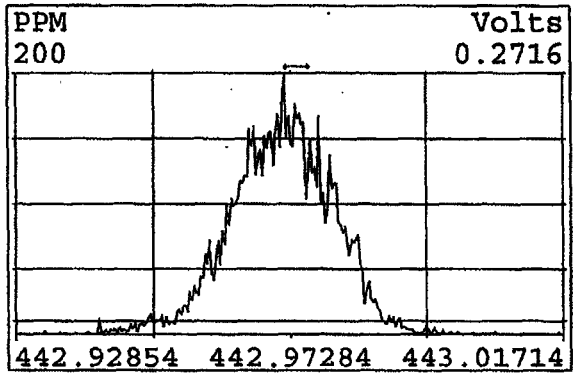


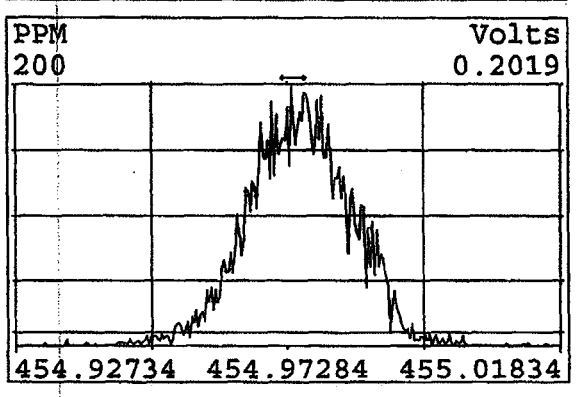
Peak Locate Examination: 4-FEB-2010:09:41 File:04FE104D5
Experiment:DIOXIN Function:4 Reference:PFK

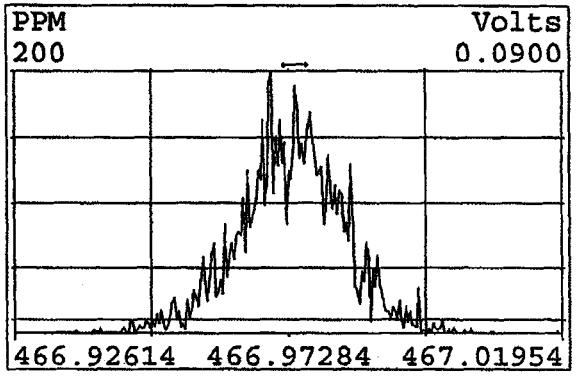


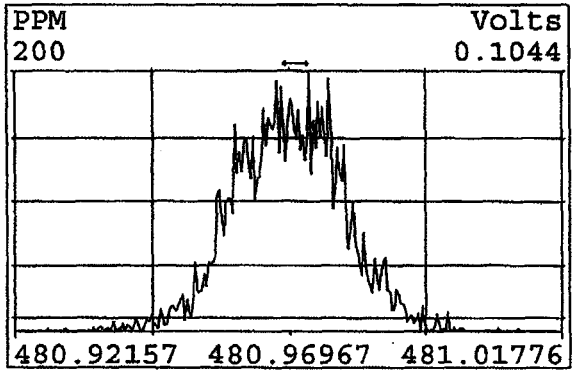




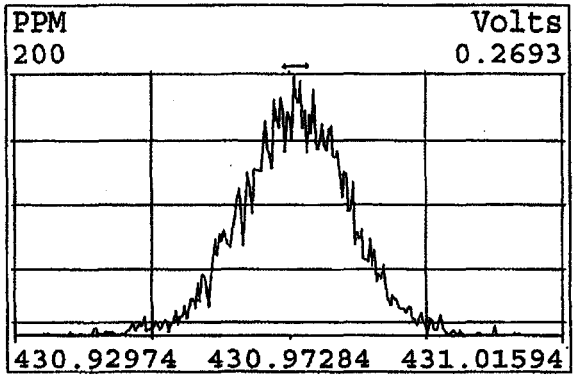


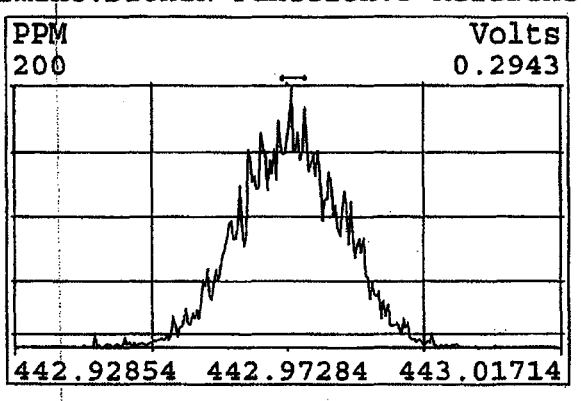


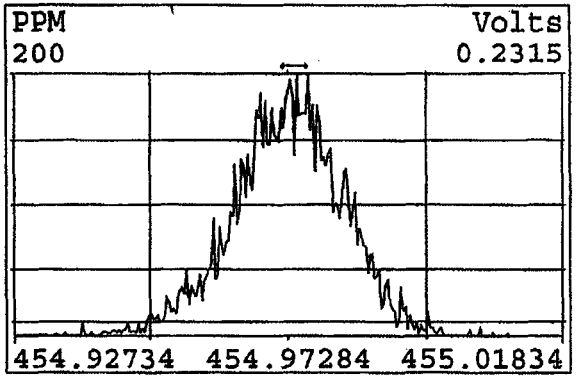


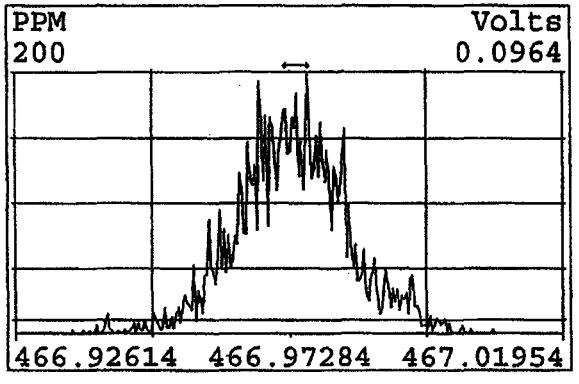


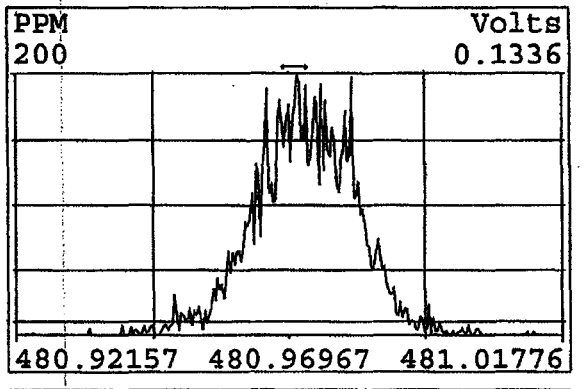
Peak Locate Examination: 4-FEB-2010:09:42 File:04FE104D5
Experiment:DIOXIN Function:5 Reference:PFK

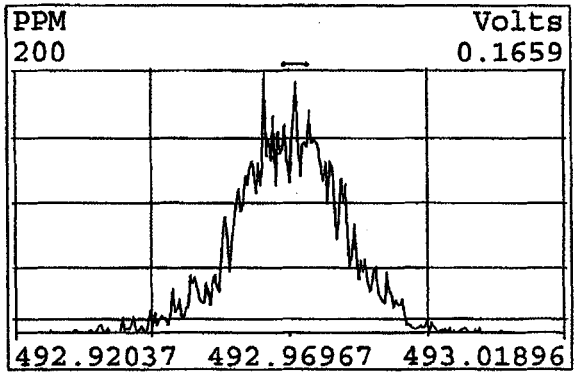


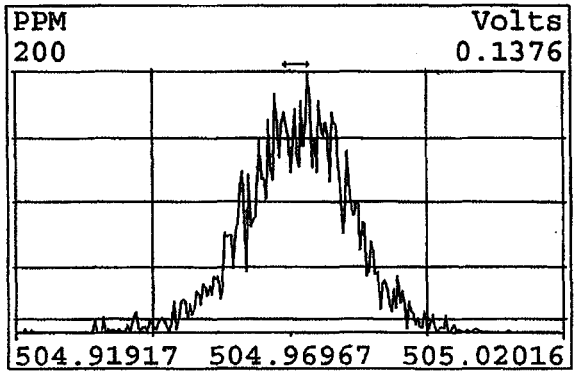


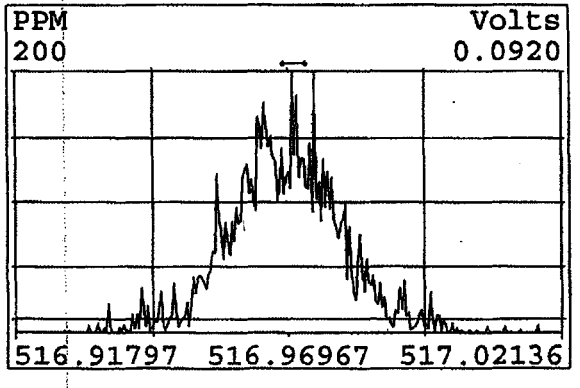




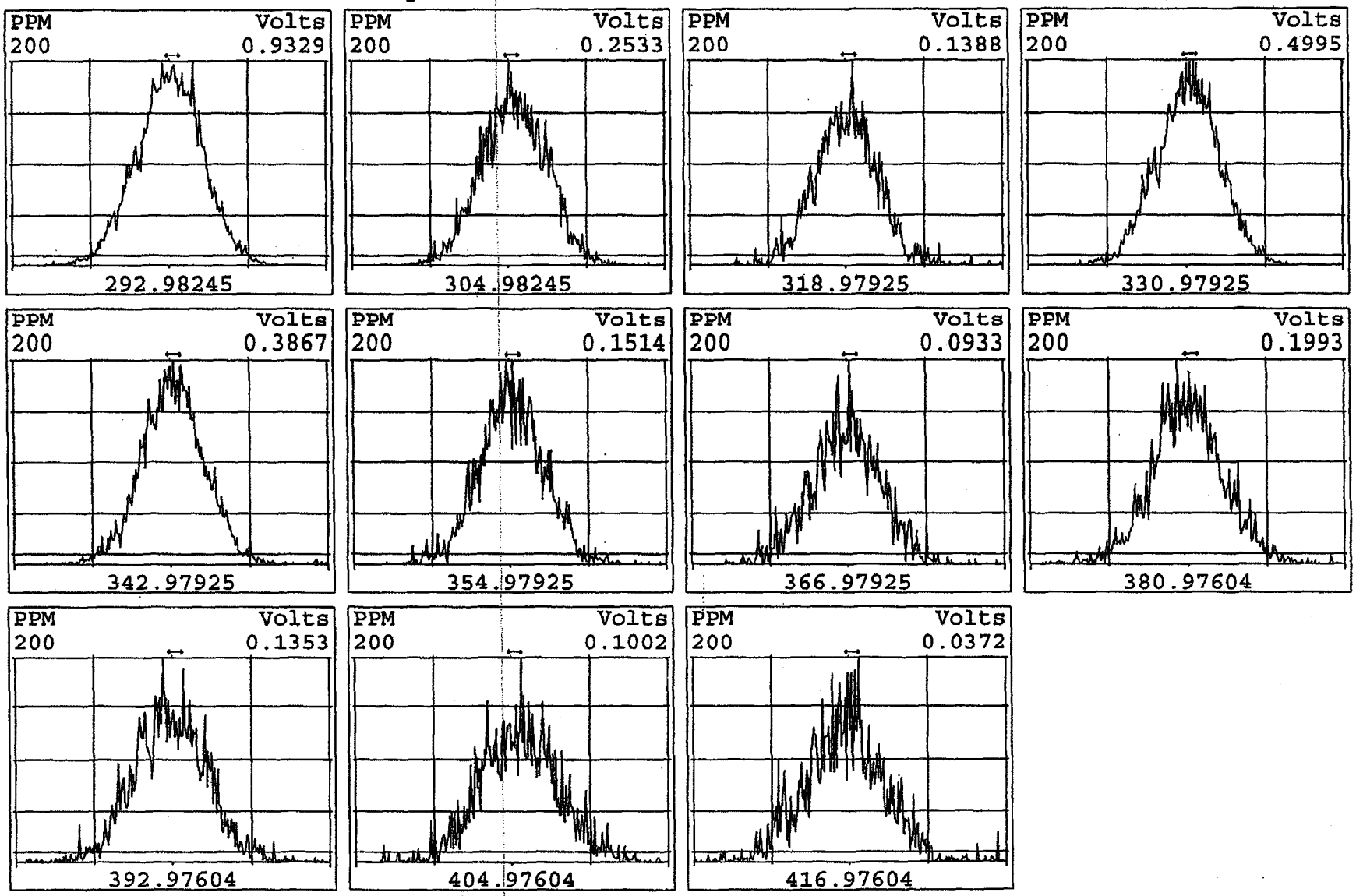




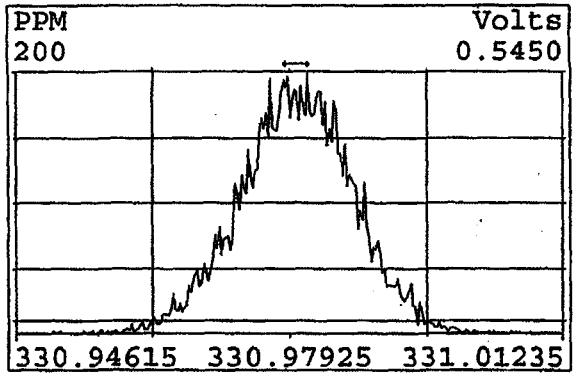


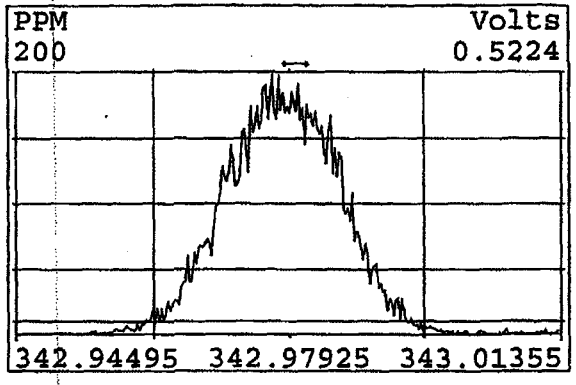


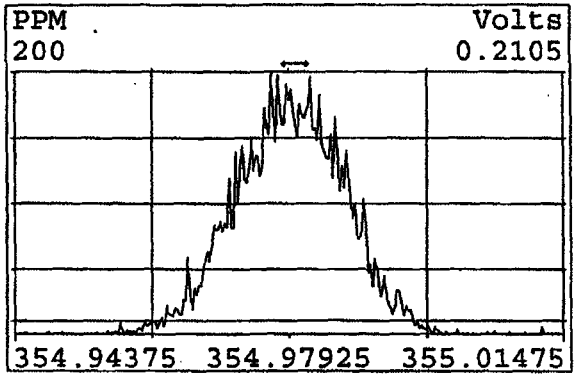
Peak Locate Examination: 4-FEB-2010:14:53 File:ENDRES04FE104D5
Experiment:DIOXIN Function:1 Reference:PFK

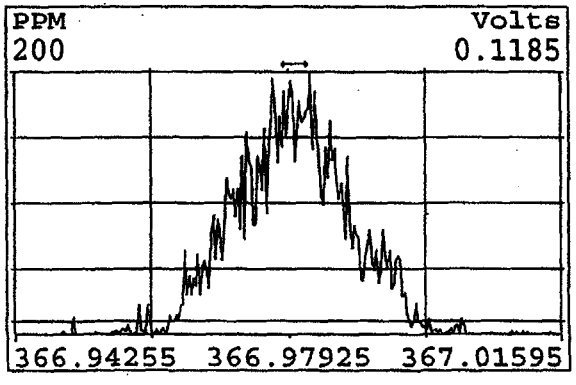


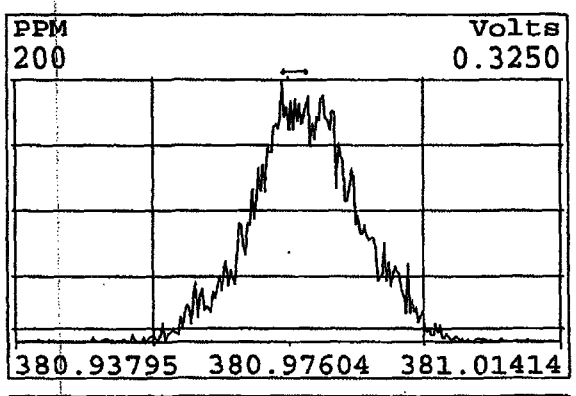
Peak Locate Examination: 4-FEB-2010:14:54 File:ENDRES04FE104D5
Experiment:DIOXIN Function:2 Reference:PFK

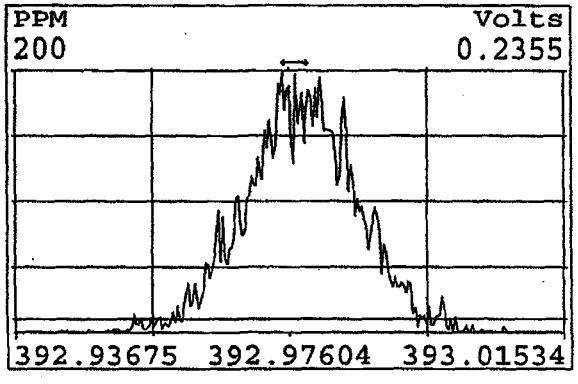


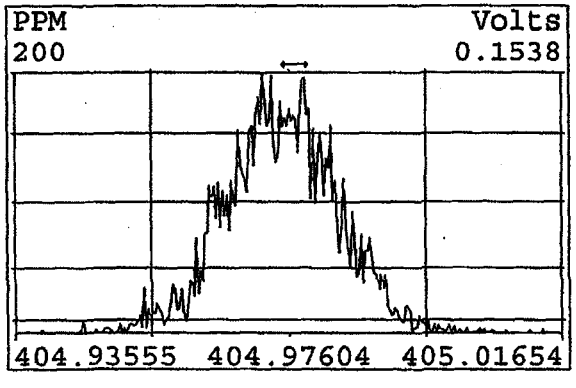


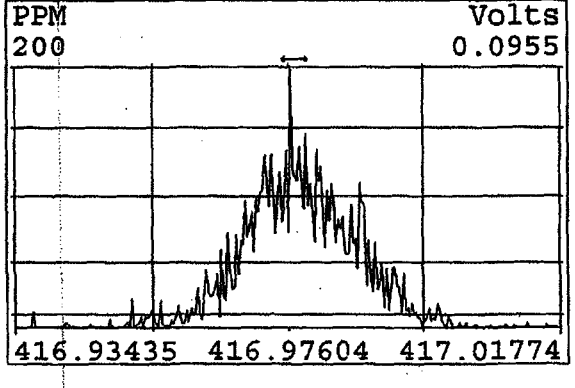




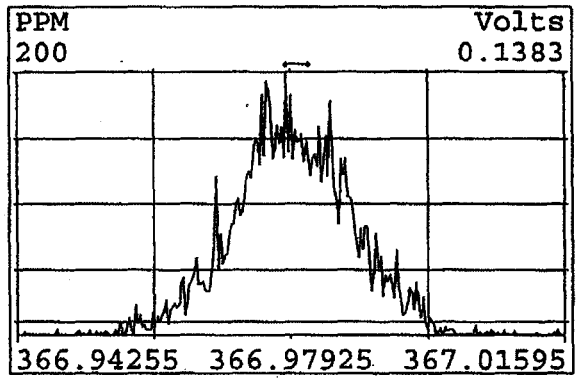


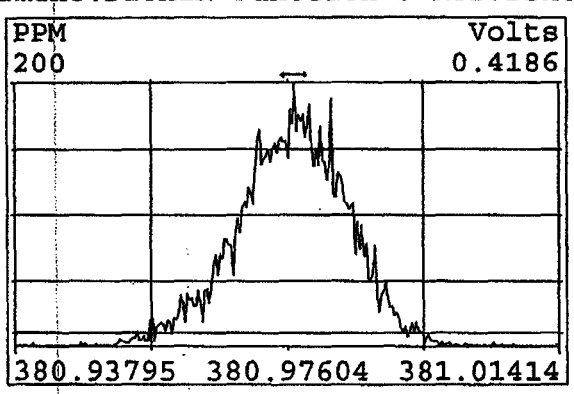


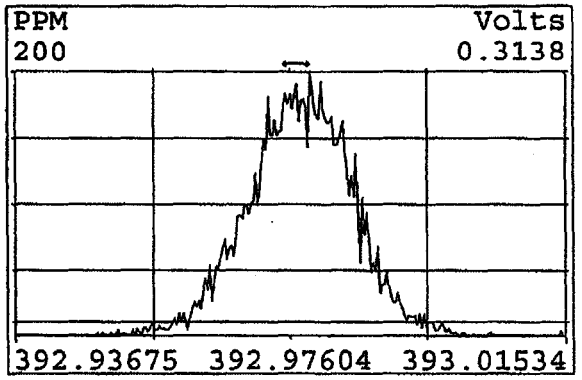


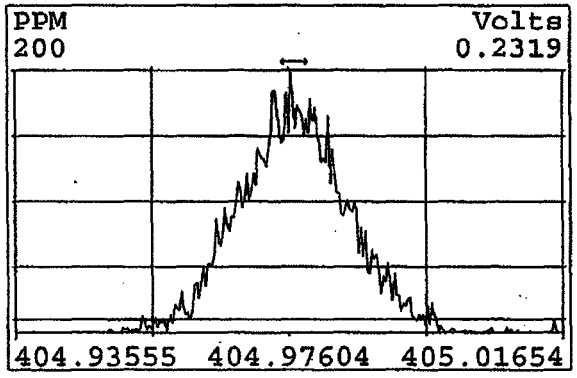


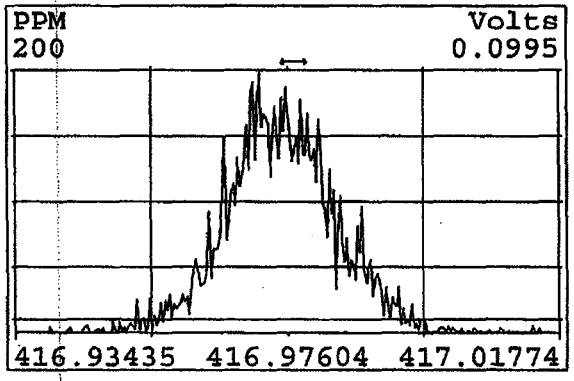
Peak Locate Examination: 4-FEB-2010:14:54 File:ENDRES04FE104D5
Experiment:DIOXIN Function:3 Reference:PFK

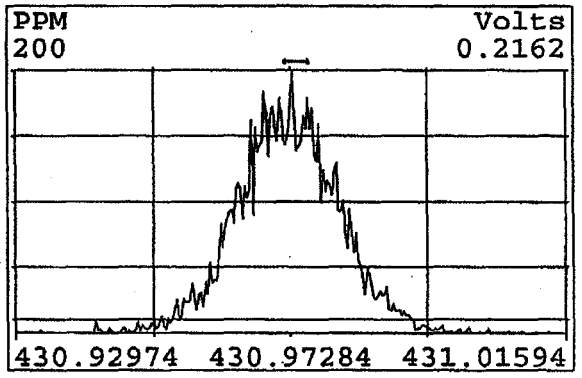


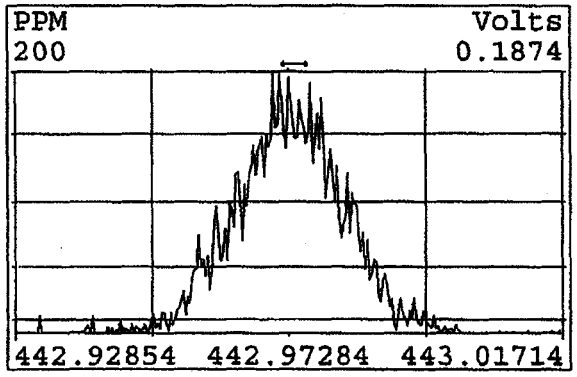


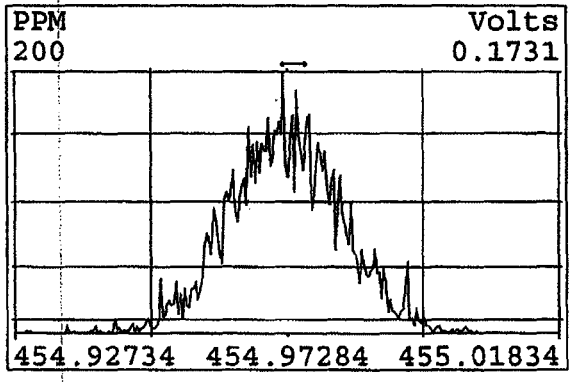




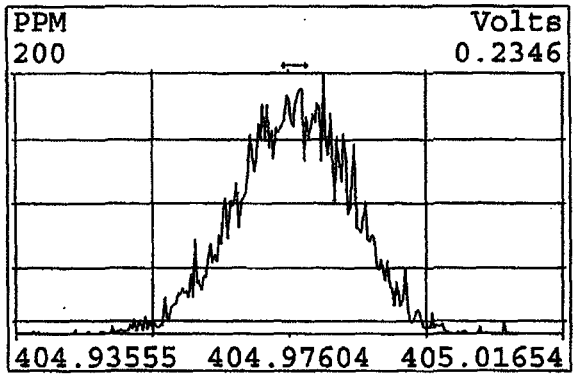


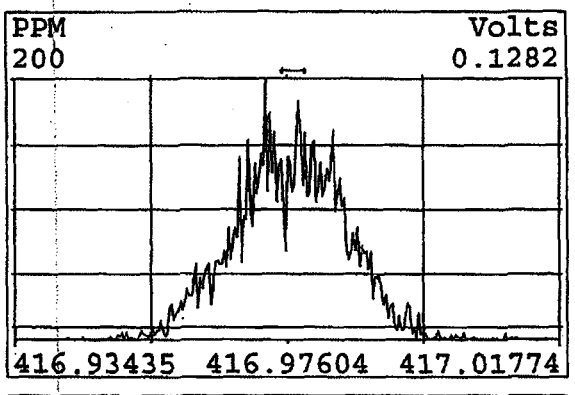


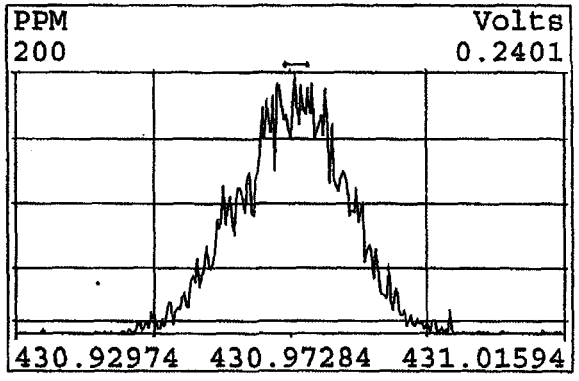


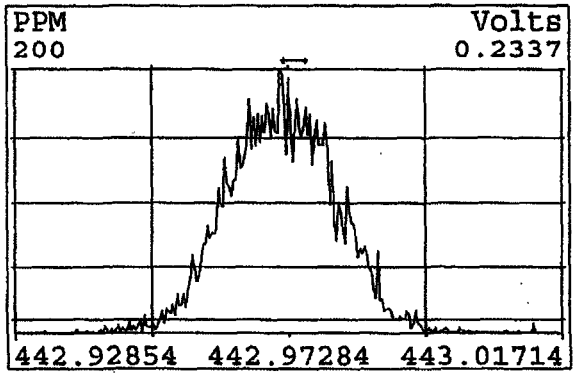


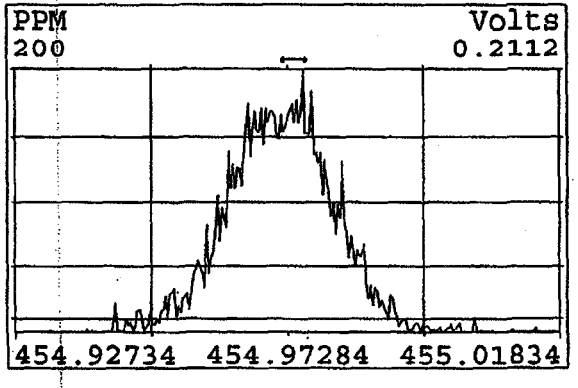
Peak Locate Examination: 4-FEB-2010:14:55 File:ENDRES04FE104D5
Experiment:DIOXIN Function:4 Reference:PFK

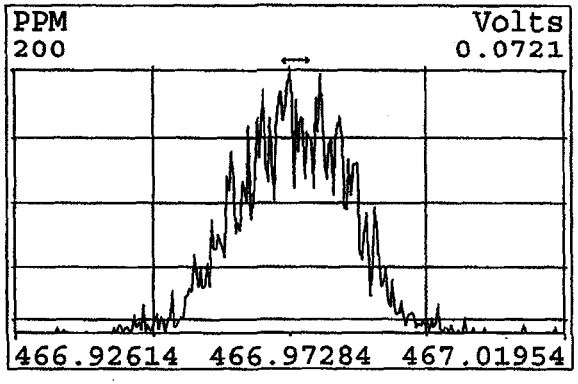


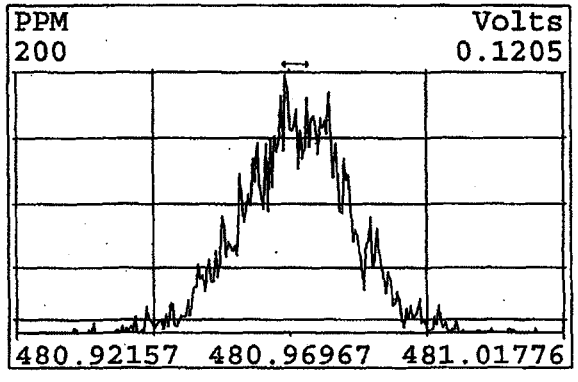




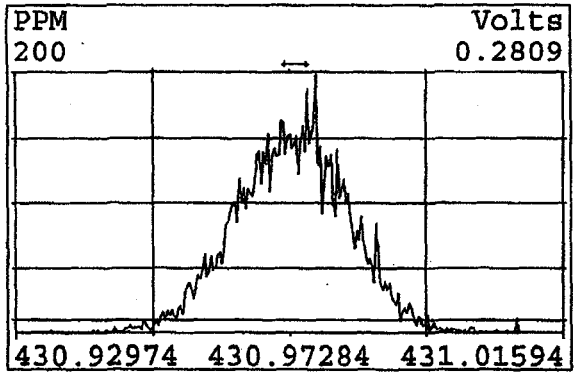


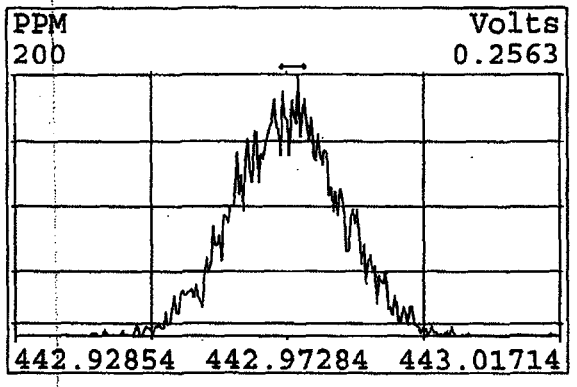


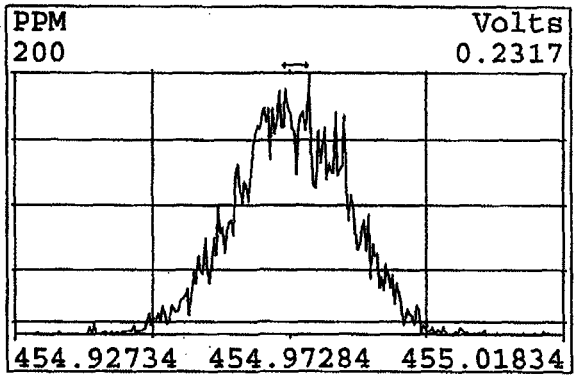


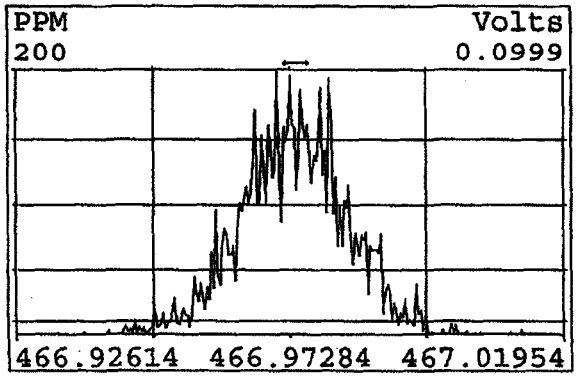


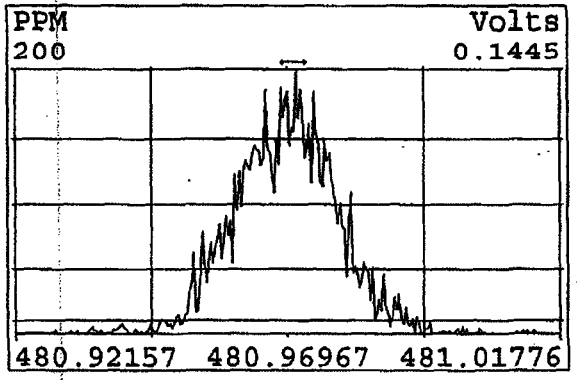
Peak Locate Examination: 4-FEB-2010:14:55 File:ENDRES04FE104D5
Experiment:DIOXIN Function:5 Reference:PFK

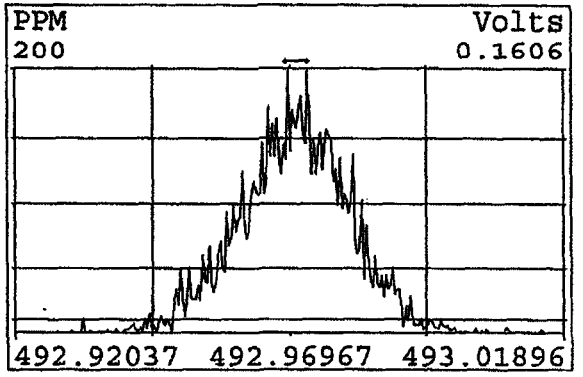


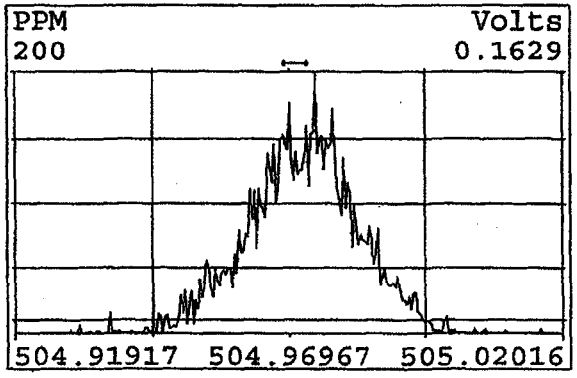


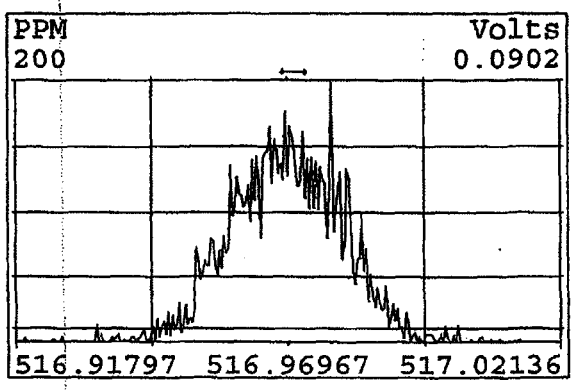




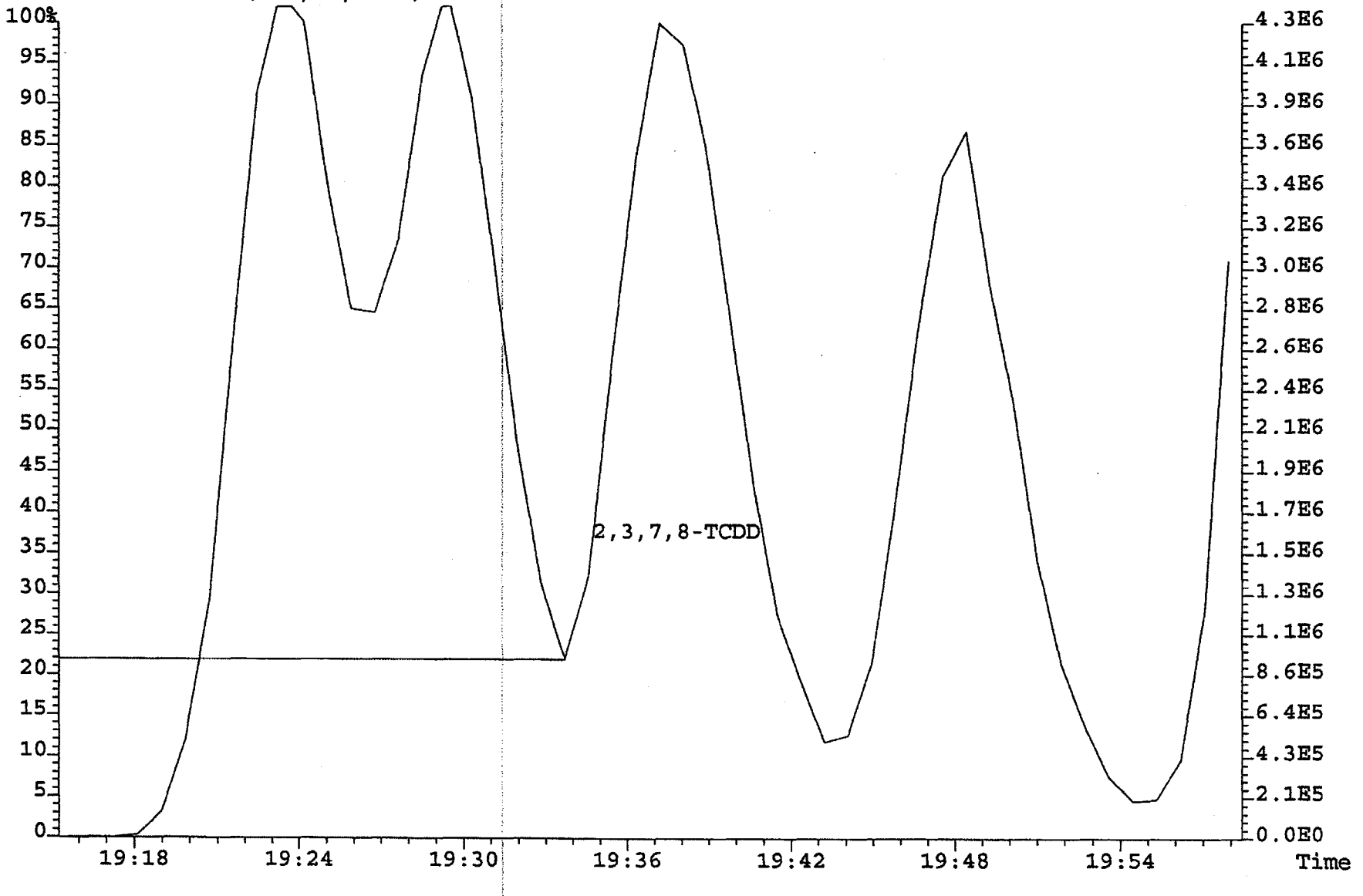








File:04FE104D5 #1-578 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN
319.8965 S:6 BSUB(128,15,-3.0)



Run text: ST0204E Sample text: ST0204E :2nd Source 09DXN449
Run #7 Filename: 04FE104D5 S: 7 I: 1 Results: 04FE104D51613SS
Acquired: 4-FEB-10 14:06:33 Processed: 4-FEB-10 14:47:04
Run: 04FE104D5 Analyte: 1613 Cal: 16130204104D5
Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

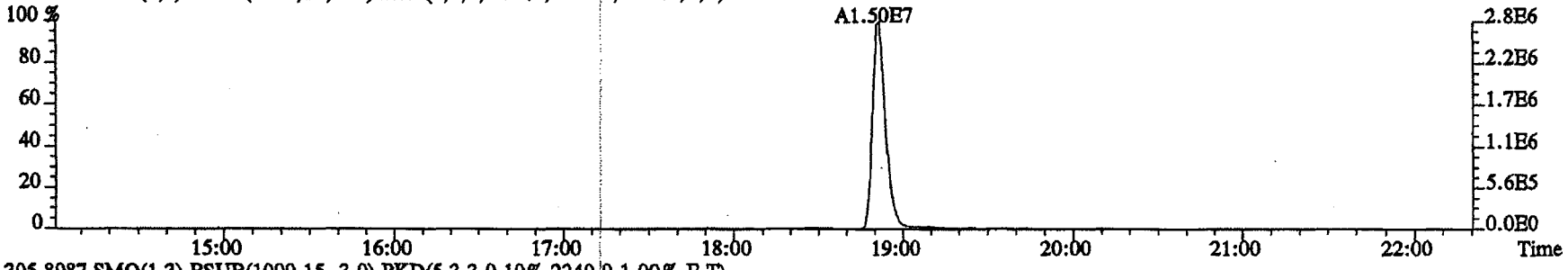
Spiked @ 200/500/1000 2/4/10 KS

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	175287100	0.81	y	19:22	-	105.30	-	-	n
13C-2,3,7,8-TCDF	266922000	0.78	y	18:50	1.57	1939.28	0.72	97.0	n
2,3,7,8-TCDF	26307300	0.73	y	18:50	1.05	187.31 ✓ 94%	0.49	-	n
Total TCDF	26695670	1.00	n	18:27	1.05	190.08	0.49	-	n
13C-2,3,7,8-TCDD	181958400	0.80	y	19:36	1.00	2074.30	1.30	103.7	n
2,3,7,8-TCDD	18371850	0.78	y	19:38	1.05	191.59 ✓ 96%	0.96	-	n
Total TCDD	18453194	0.36	n	15:21	1.05	192.44	0.96	-	n
37Cl-2,3,7,8-TCDD	44269600	1.00	y	19:37	2.42	209.09	0.01	104.5	n
13C-1,2,3,7,8-PeCDF	245877900	1.64	y	24:30	1.34	2098.83	2.44	104.9	n
1,2,3,7,8-PeCDF	63525100	1.52	y	24:30	1.07	483.13 ✓ 97%	1.41	-	n
13C-2,3,4,7,8-PeCDF	242738100	1.62	y	25:58	1.31	2107.55	2.48	105.4	n
2,3,4,7,8-PeCDF	62244900	1.54	y	26:00	1.05	486.28 ✓ 97%	1.51	-	n
Total F2 PeCDF	127148228	1.73	y	23:00	1.06	980.03	1.46	-	n
Total F1 PeCDF	*	*	n	NotFnd	1.06	*	0.66	-	n
13C-1,2,3,7,8-PeCDD	137224100	1.69	y	26:47	0.81	1928.05	0.47	96.4	n
1,2,3,7,8-PeCDD	37422200	1.65	y	26:48	1.04	525.48 ✓ 105%	2.24	-	n
Total PeCDD	37733904	1.65	y	26:48	1.04	529.86	2.24	-	n
13C-1,2,3,7,8,9-HxCDD	164296200	1.27	y	33:04	-	100.71	-	-	n
13C-1,2,3,4,7,8-HxCDF	187336200	0.51	y	31:53	1.01	2247.73	0.92	112.4	n
1,2,3,4,7,8-HxCDF	55922500	1.21	y	31:54	1.24	481.68 ✓ 96%	0.59	-	n
13C-1,2,3,6,7,8-HxCDF	235114700	0.52	y	32:01	1.33	2149.85	0.70	107.5	n
1,2,3,6,7,8-HxCDF	64341100	1.22	y	32:01	1.13	482.24 ✓ 96%	0.56	-	n
13C-2,3,4,6,7,8-HxCDF	214823600	0.52	y	32:35	1.18	2212.73	0.79	110.6	n
2,3,4,6,7,8-HxCDF	58389600	1.19	y	32:36	1.15	472.99 ✓ 95%	0.53	-	n
13C-1,2,3,7,8,9-HxCDF	192523600	0.53	y	33:14	1.10	2140.01	0.85	107.0	n
1,2,3,7,8,9-HxCDF	53423000	1.21	y	33:15	1.13	491.82 ✓ 98%	0.62	-	n
Total HxCDF	232534013	1.21	y	31:54	1.16	1932.53	0.57	-	n
13C-1,2,3,4,7,8-HxCDD	122968200	1.28	y	32:43	0.74	2010.84	0.07	100.5	n
1,2,3,4,7,8-HxCDD	37078000	1.26	y	32:43	1.07	562.04 ✓ 112%	1.35	-	n
13C-1,2,3,6,7,8-HxCDD	151023300	1.30	y	32:47	0.88	2079.99	0.06	104.0	n
1,2,3,6,7,8-HxCDD	46262200	1.31	y	32:48	1.19	514.82 ✓ 103%	1.28	-	n
1,2,3,7,8,9-HxCDD	44506700	1.29	y	33:05	1.26	516.67 ✓ 103%	1.19	-	n
Total HxCDD	127846900	1.26	y	32:43	1.18	1593.53	1.27	-	n
13C-1,2,3,4,6,7,8-HpCDF	165616100	0.44	y	34:34	0.94	2133.88	3.91	106.7	n
1,2,3,4,6,7,8-HpCDF	51186200	0.94	y	34:35	1.30	475.89 ✓ 95%	2.19	-	n
13C-1,2,3,4,7,8,9-HpCDF	140442700	0.43	y	35:41	0.81	2102.73	4.54	105.1	n
1,2,3,4,7,8,9-HpCDF	43079900	0.96	y	35:42	1.28	479.11 ✓ 96%	2.92	-	n
Total HpCDF	94266100	0.94	y	34:35	1.29	955.00	2.52	-	n

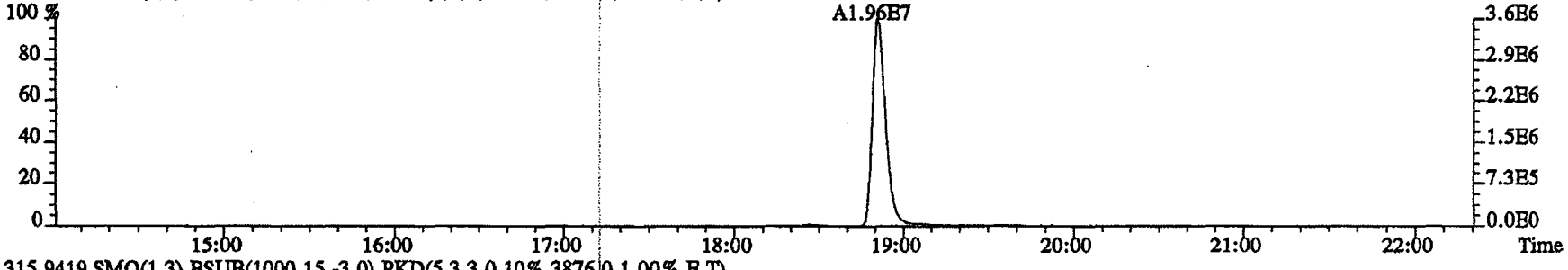
13C-1,2,3,4,6,7,8-HpCDD	139296600	1.07	y	35:23	0.79	2138.52		2.90	106.9	n
1,2,3,4,6,7,8-HpCDD	35570300	1.06	y	35:23	1.06	483.63 ✓ 97%		1.89	-	n
Total HpCDD	36207386	4.47	n	34:35	1.06	492.29		1.89	-	n
13C-OCDD	194917600	0.95	y	37:52	0.58	4077.38		3.13	101.9	n
OCDF	75151300	0.89	y	37:58	1.56	990.09 ✓ 99%	•	1.04	-	n
OCDD	58400500	0.88	y	37:52	1.19	1004.50 ✓ 100%		1.52	-	n

File:04FE104D5 #1-578 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN

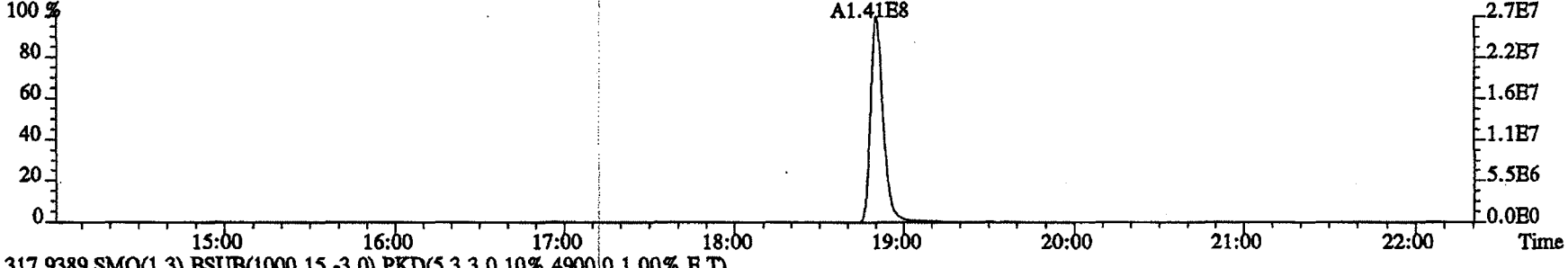
303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1004.0,1.00%,F,T)



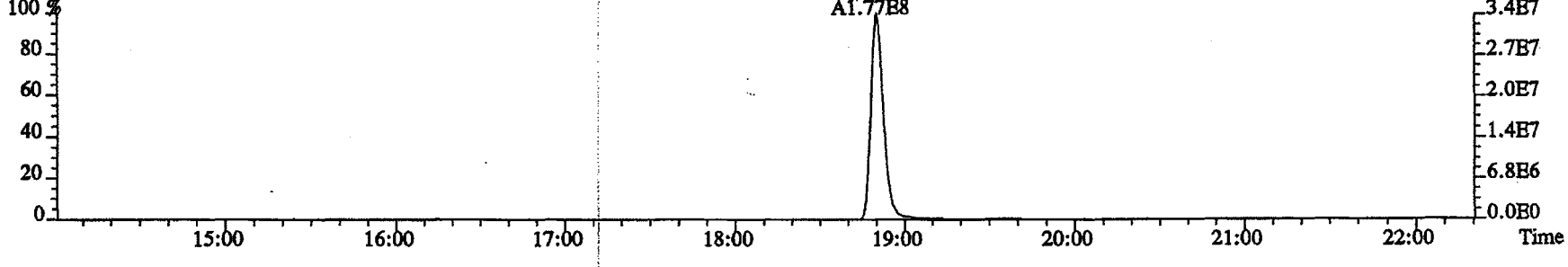
305.8987 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2240.0,1.00%,F,T)



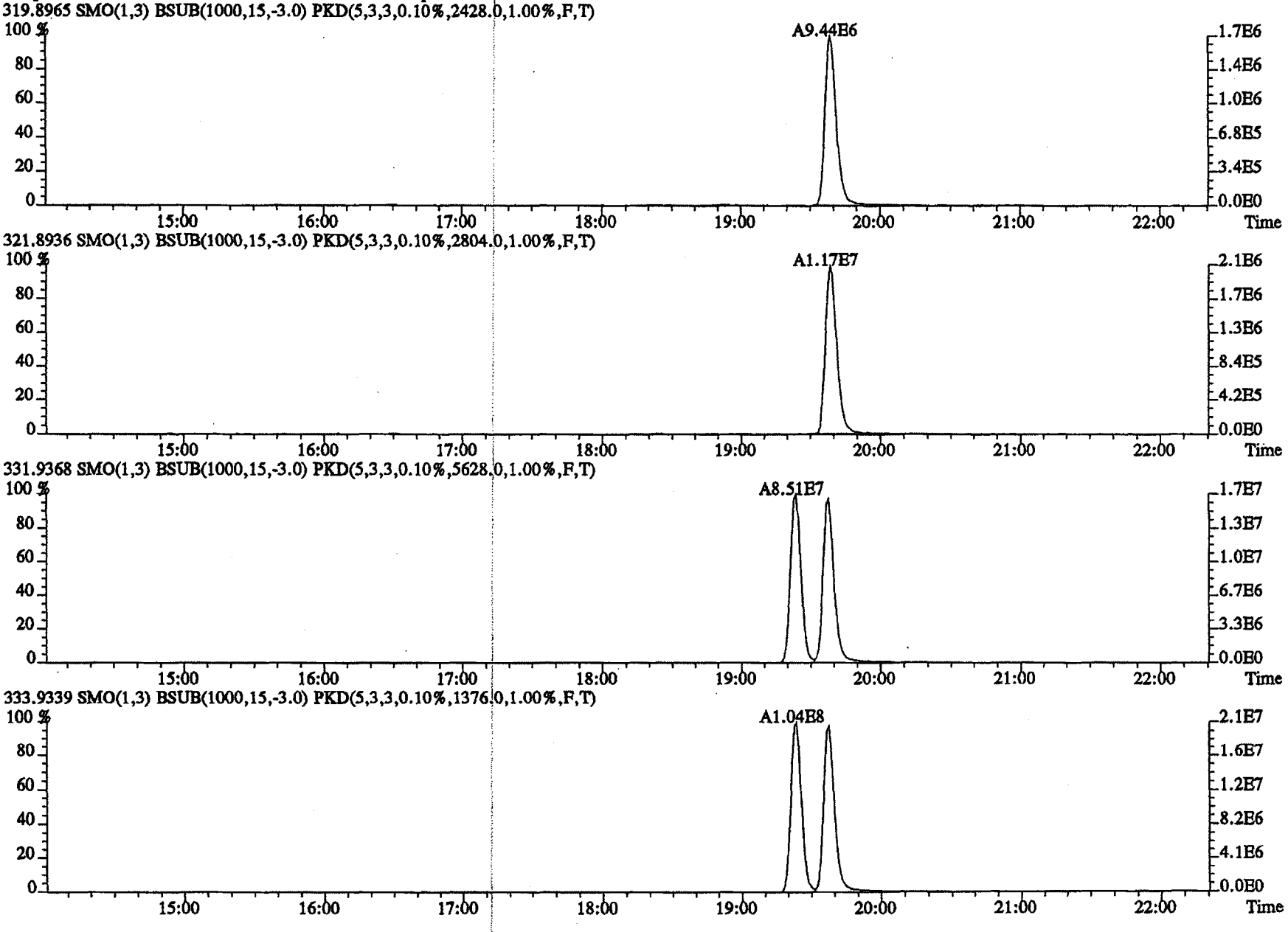
315.9419 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3876.0,1.00%,F,T)



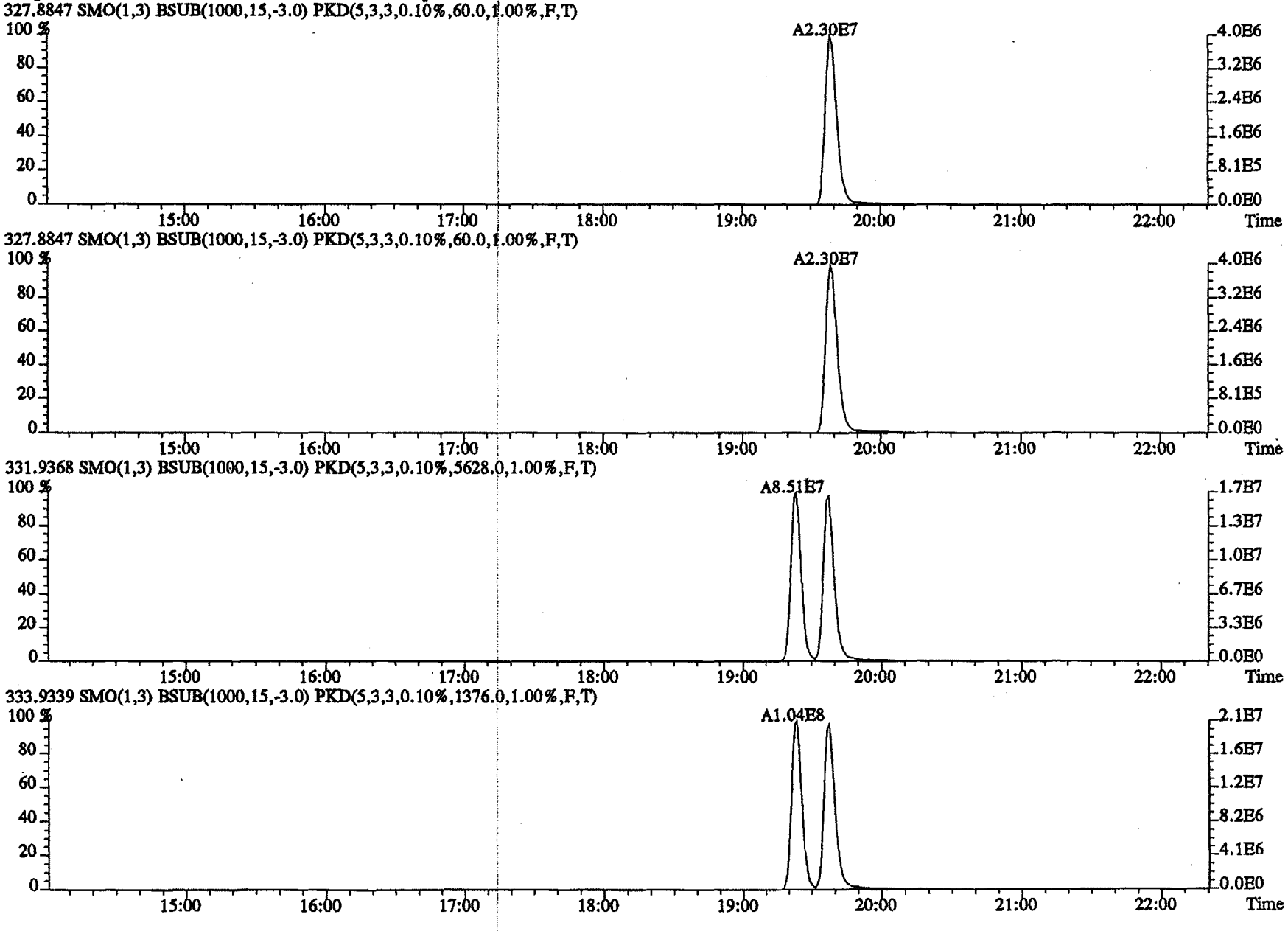
317.9389 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4900.0,1.00%,F,T)



File:04FE104D5 #1-578 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN

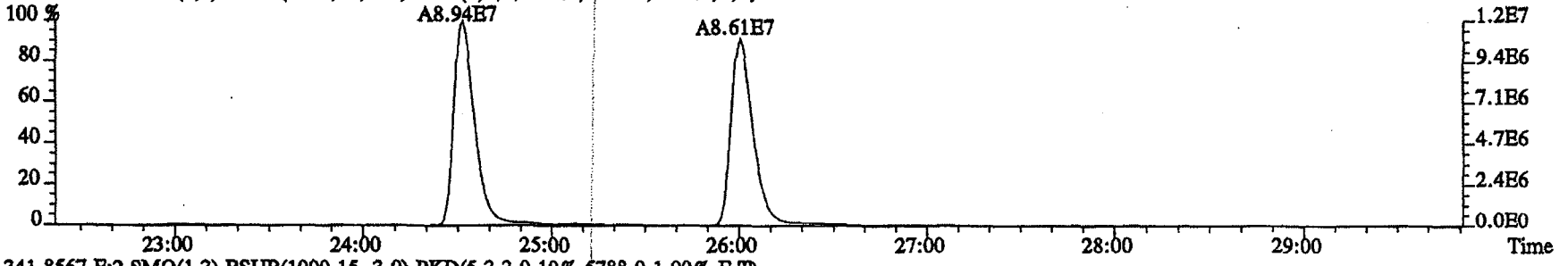


File:04FB104D5 #1-578 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN

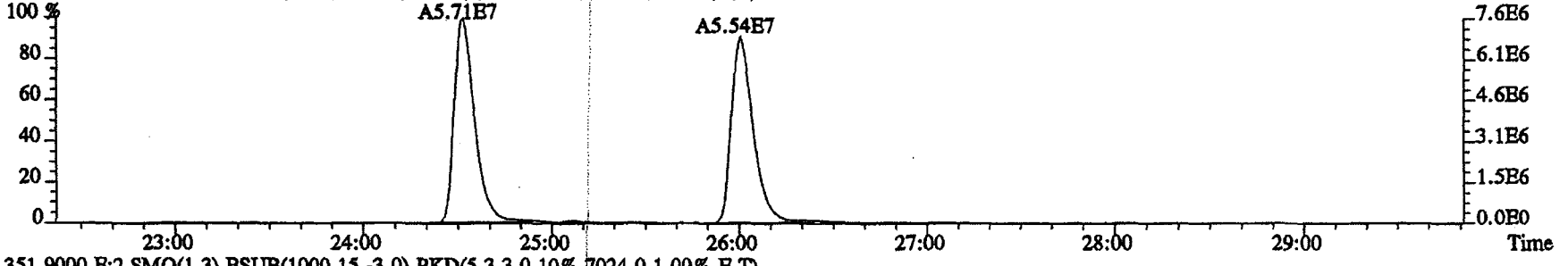


File:04FB104D5 #1-597 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN

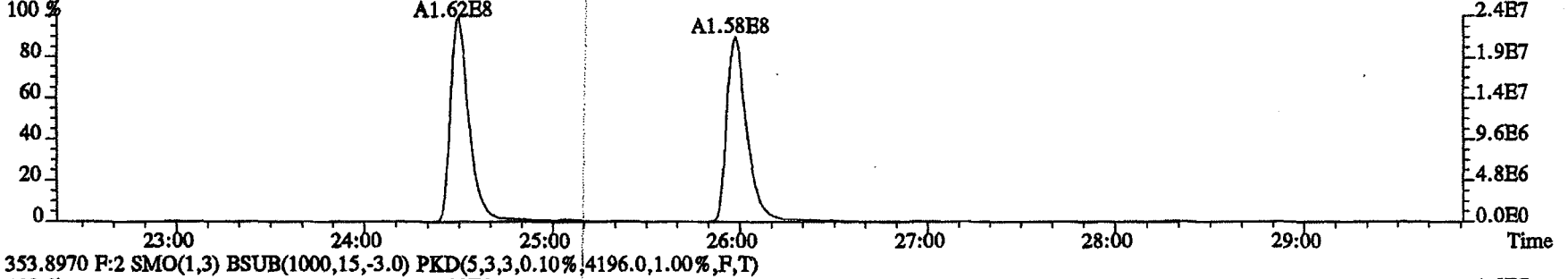
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2492.0,1.00%,F,T)



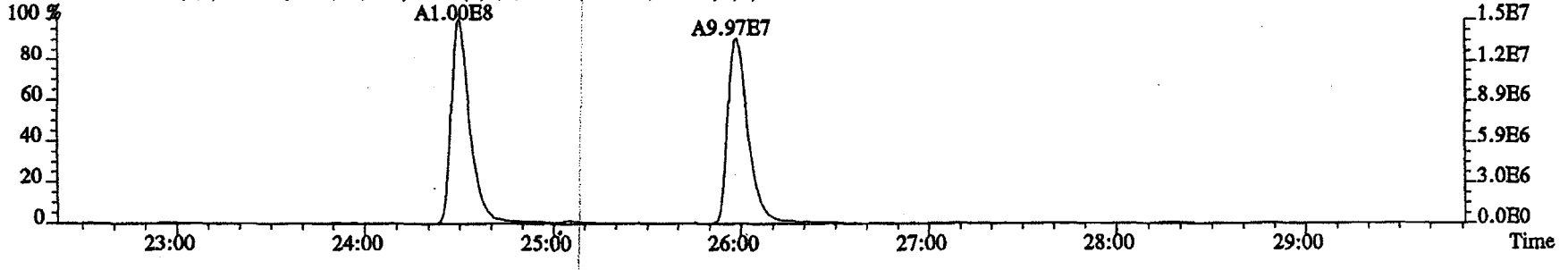
341.8567 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5788.0,1.00%,F,T)



351.9000 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7024.0,1.00%,F,T)

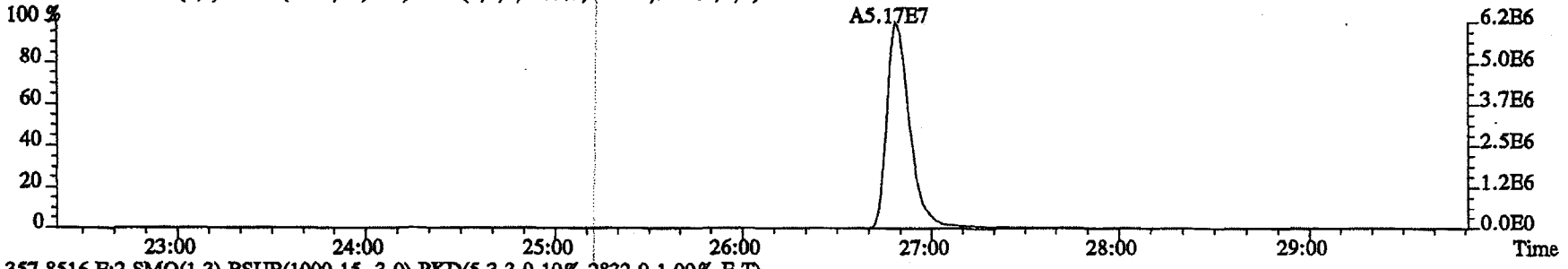


353.8970 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4196.0,1.00%,F,T)

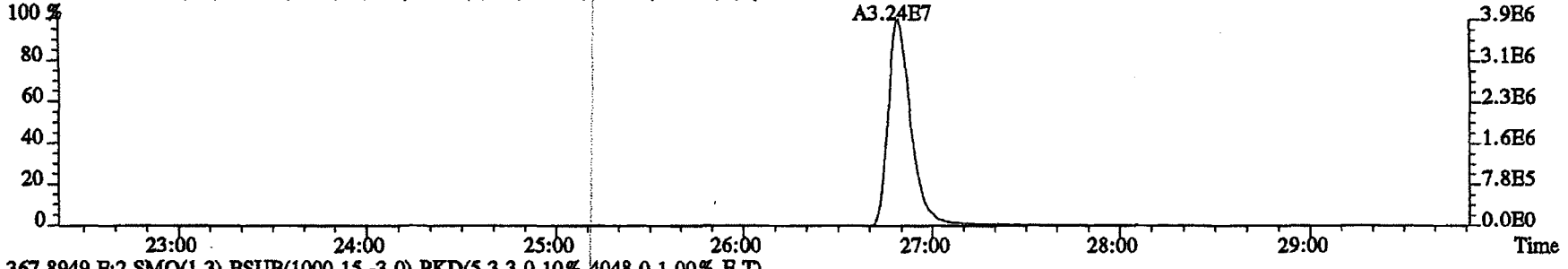


File:04FB104D5 #1-597 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN

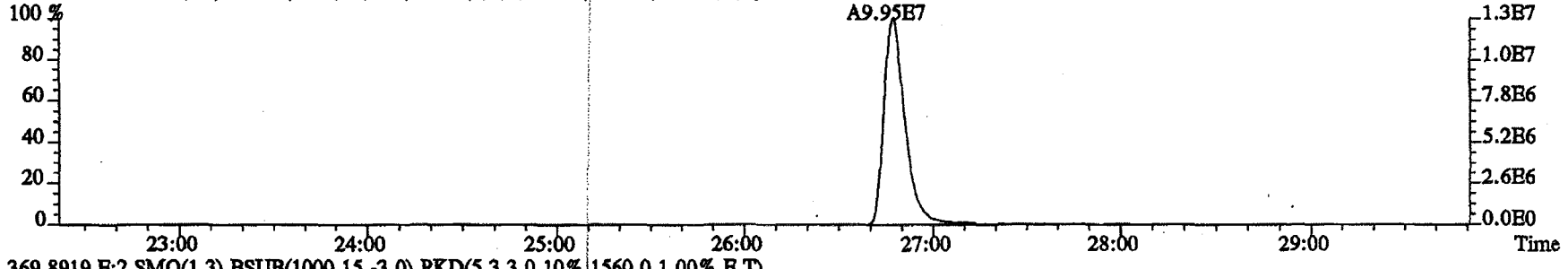
355.8546 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4144.0,1.00%,F,T)



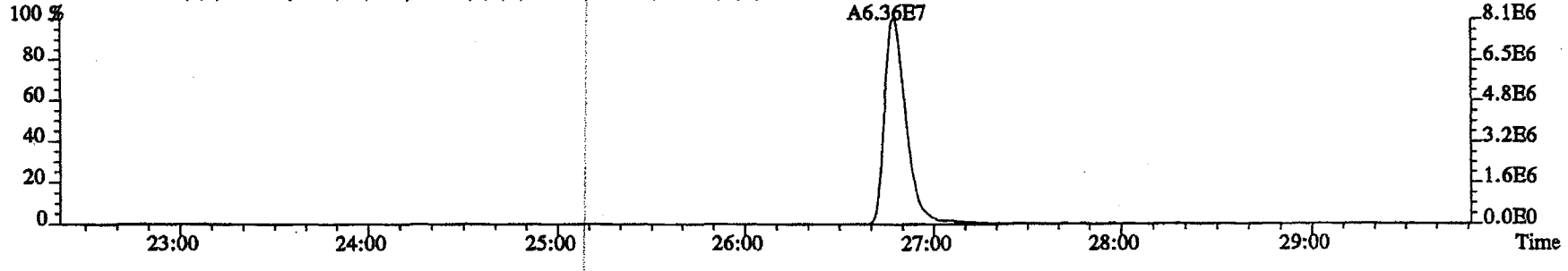
357.8516 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2832.0,1.00%,F,T)



367.8949 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4048.0,1.00%,F,T)

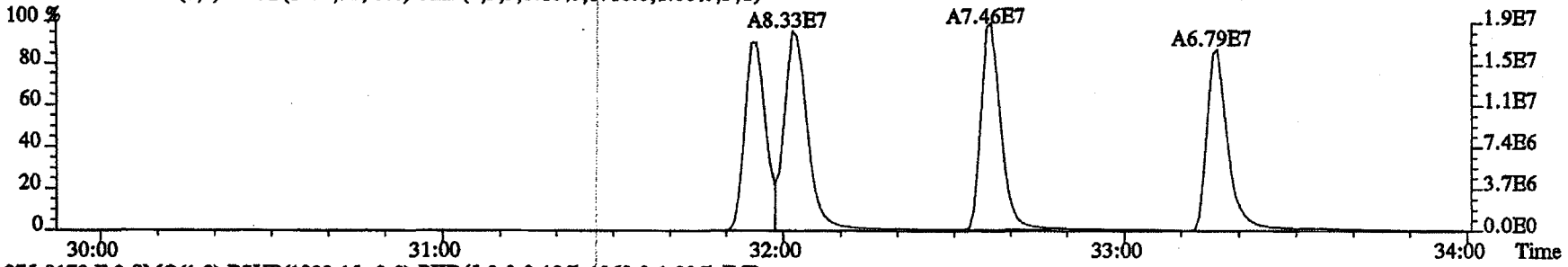


369.8919 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1560.0,1.00%,F,T)

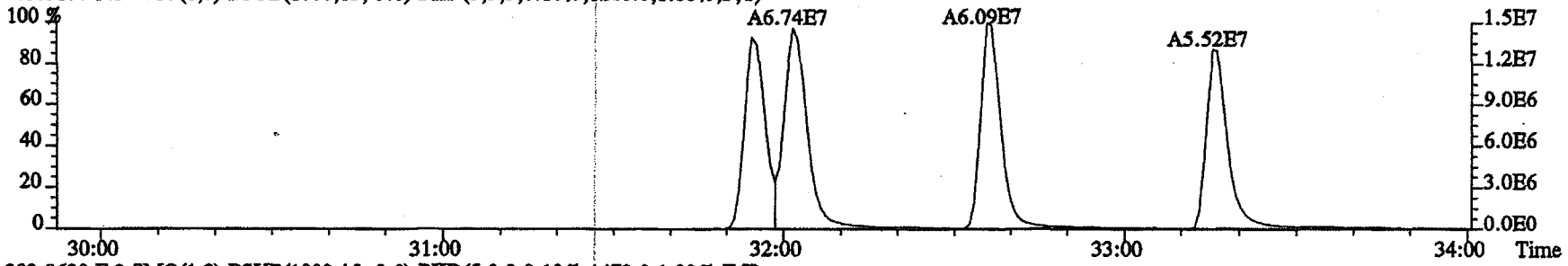


File:04FE104D5 #1-314 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN

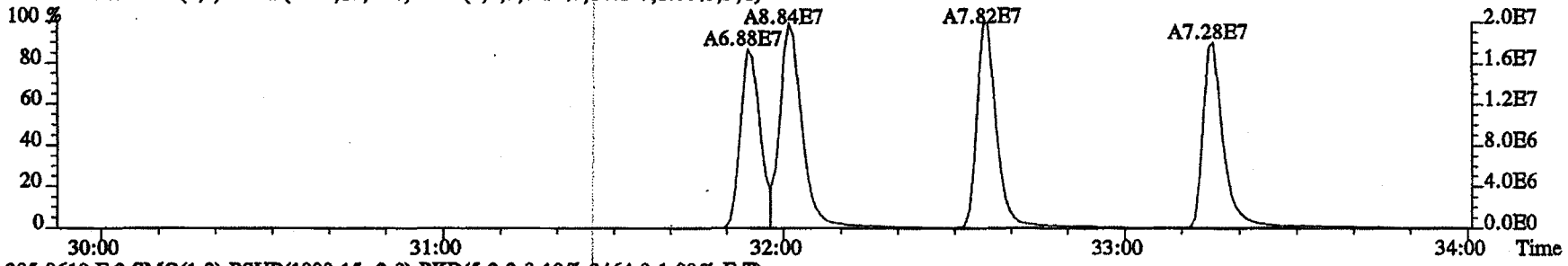
373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1716.0,1.00%,F,T)



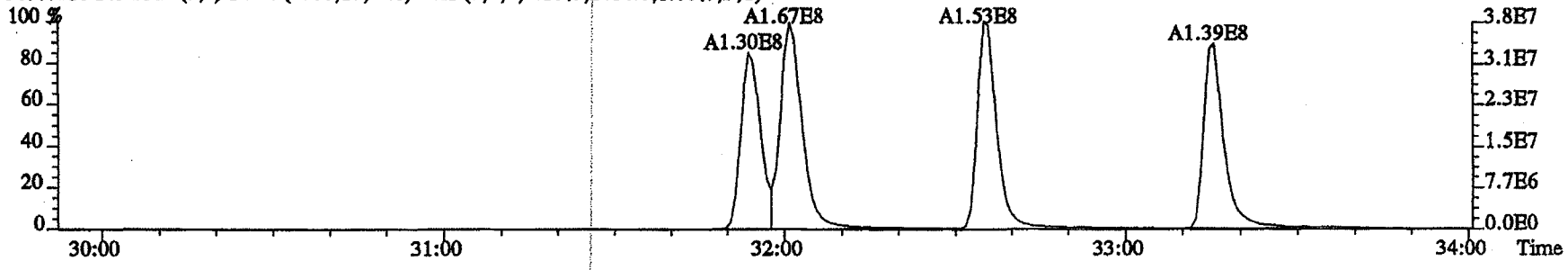
375.8178 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1260.0,1.00%,F,T)



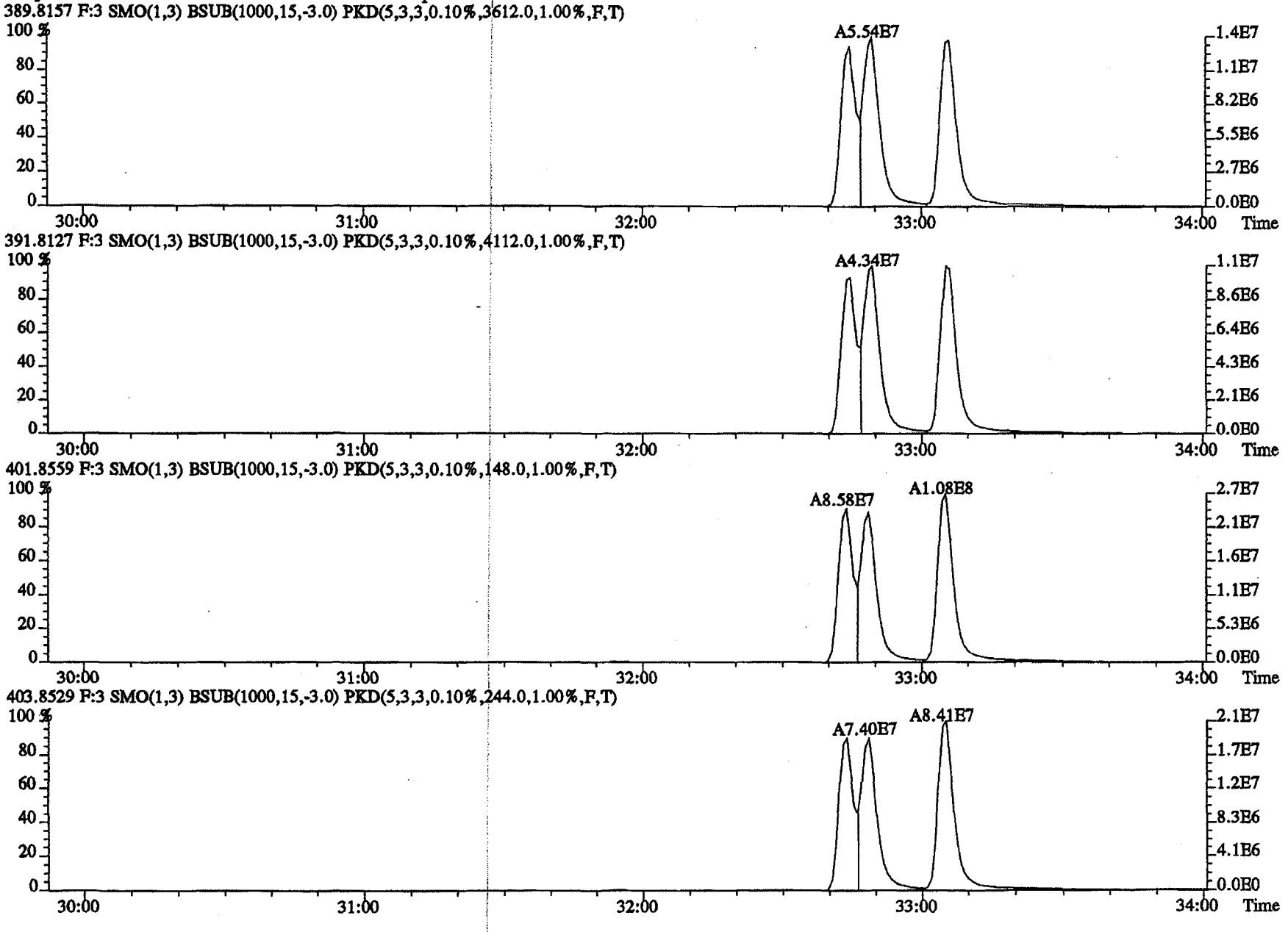
383.8639 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1472.0,1.00%,F,T)



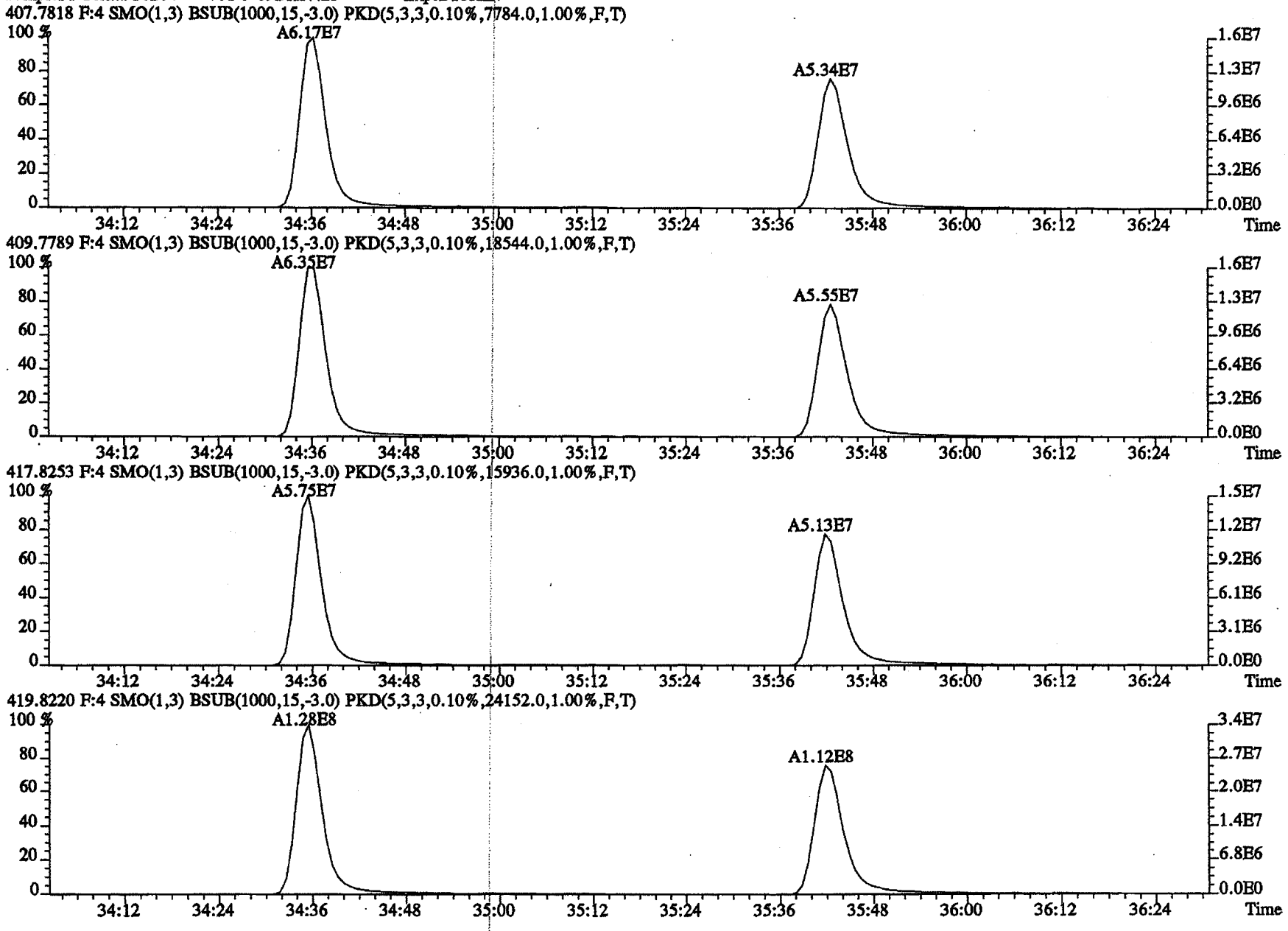
385.8610 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2464.0,1.00%,F,T)



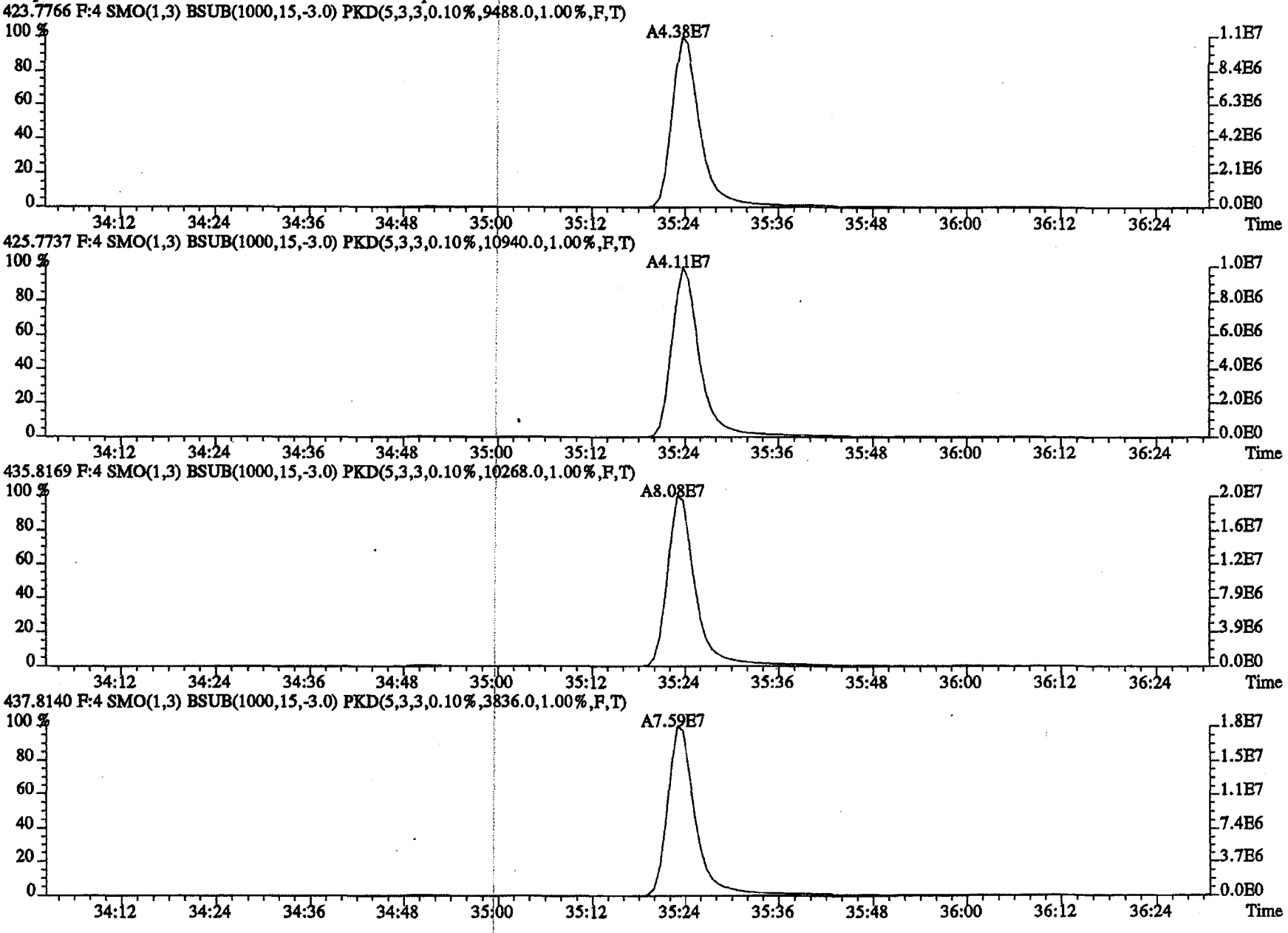
File:04FE104D5 #1-314 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN



File:04FB104D5 #1-198 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN

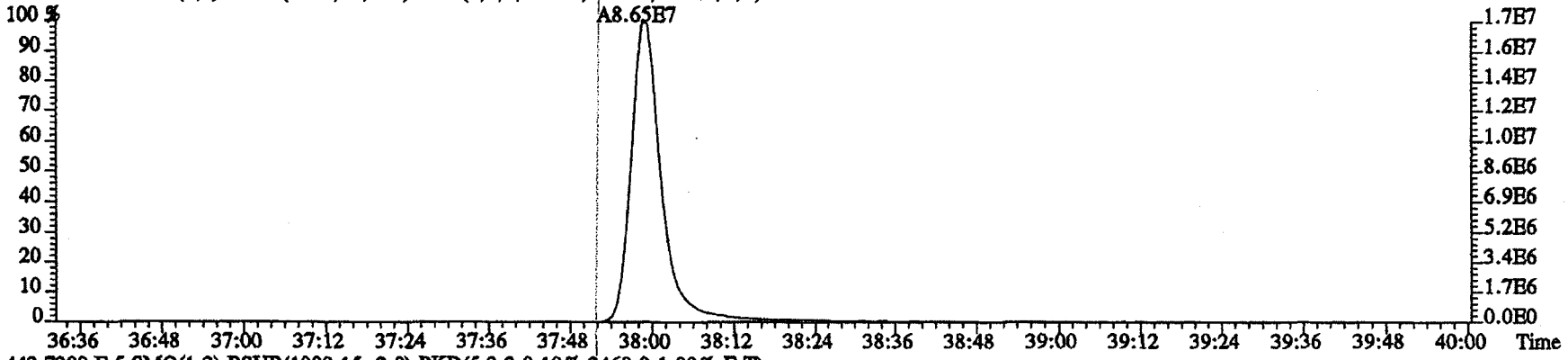


File:04FE104D5 #1-198 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN

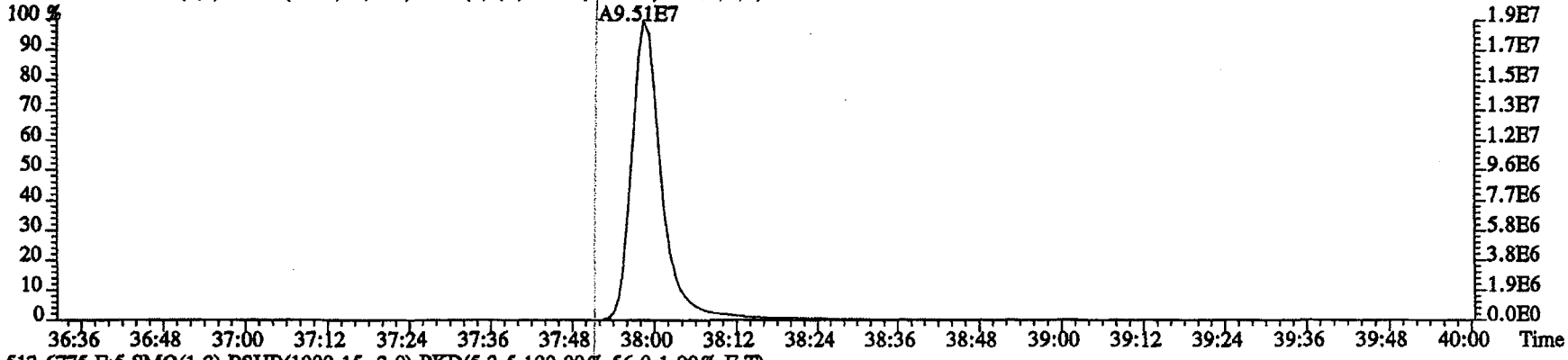


File:04FE104D5 #1-281 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN

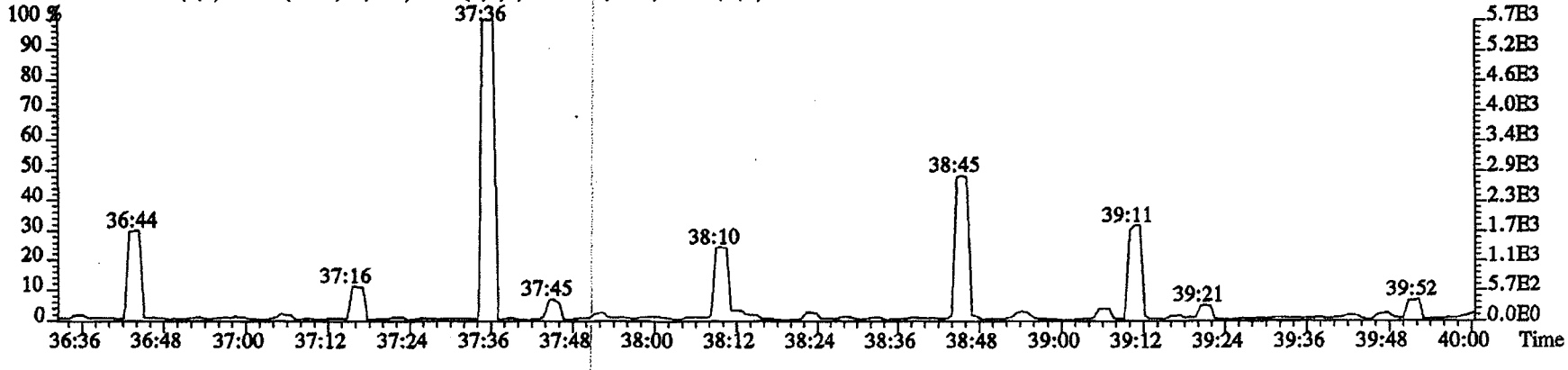
441.7428 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2736.0,1.00%,F,T)



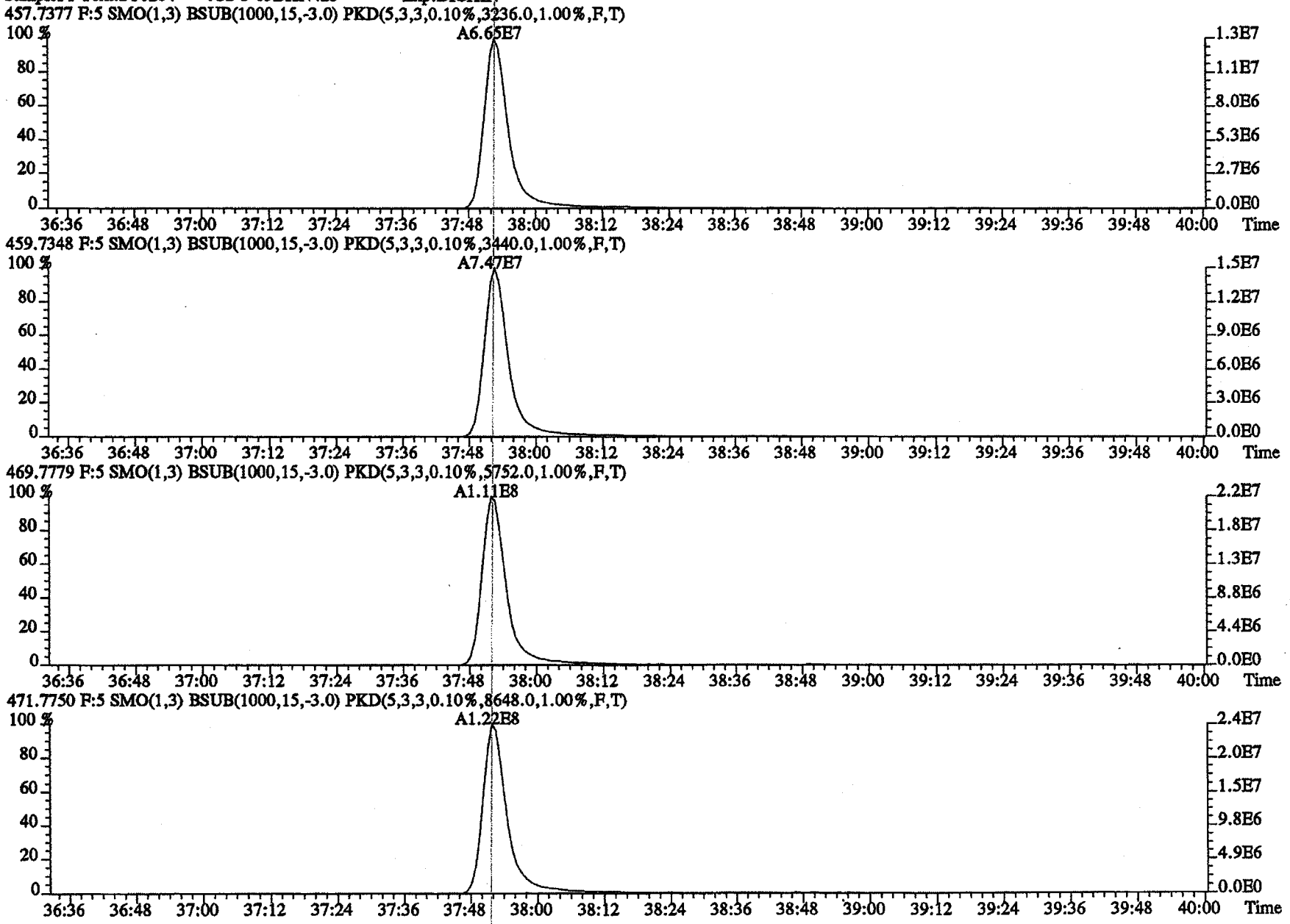
443.7399 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3468.0,1.00%,F,T)



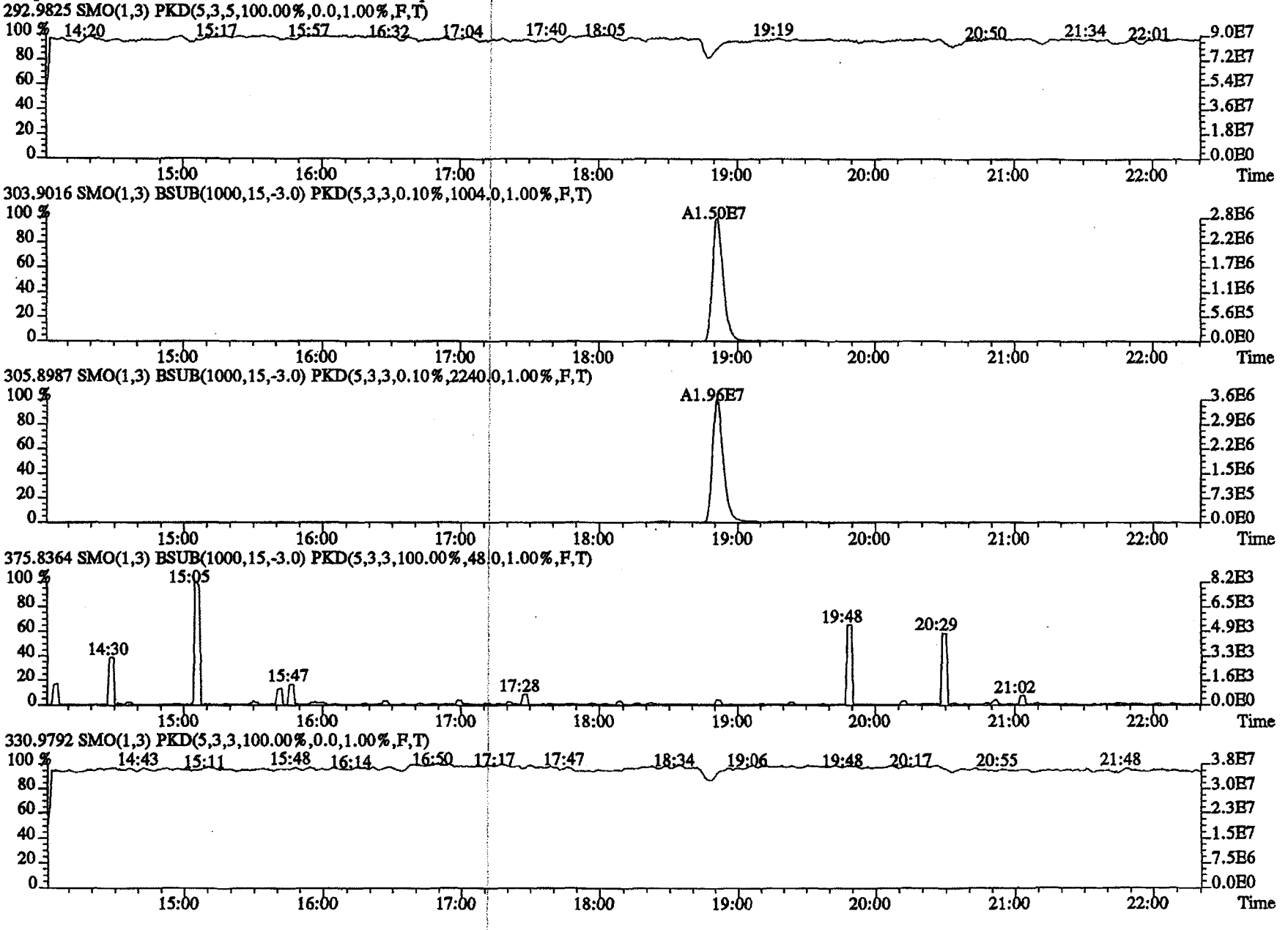
513.6775 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,56.0,1.00%,F,T)



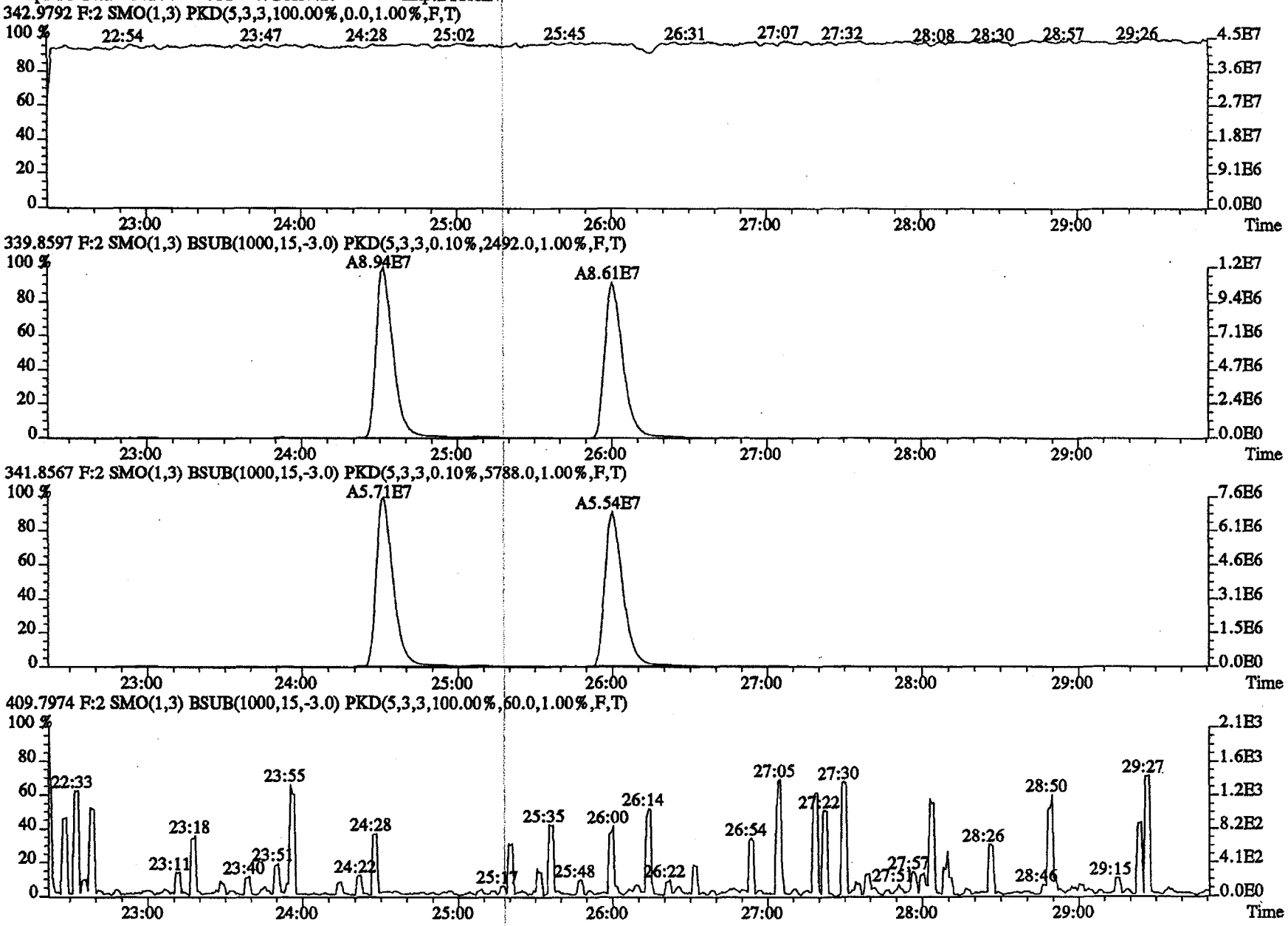
File:04FB104D5 #1-281 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN



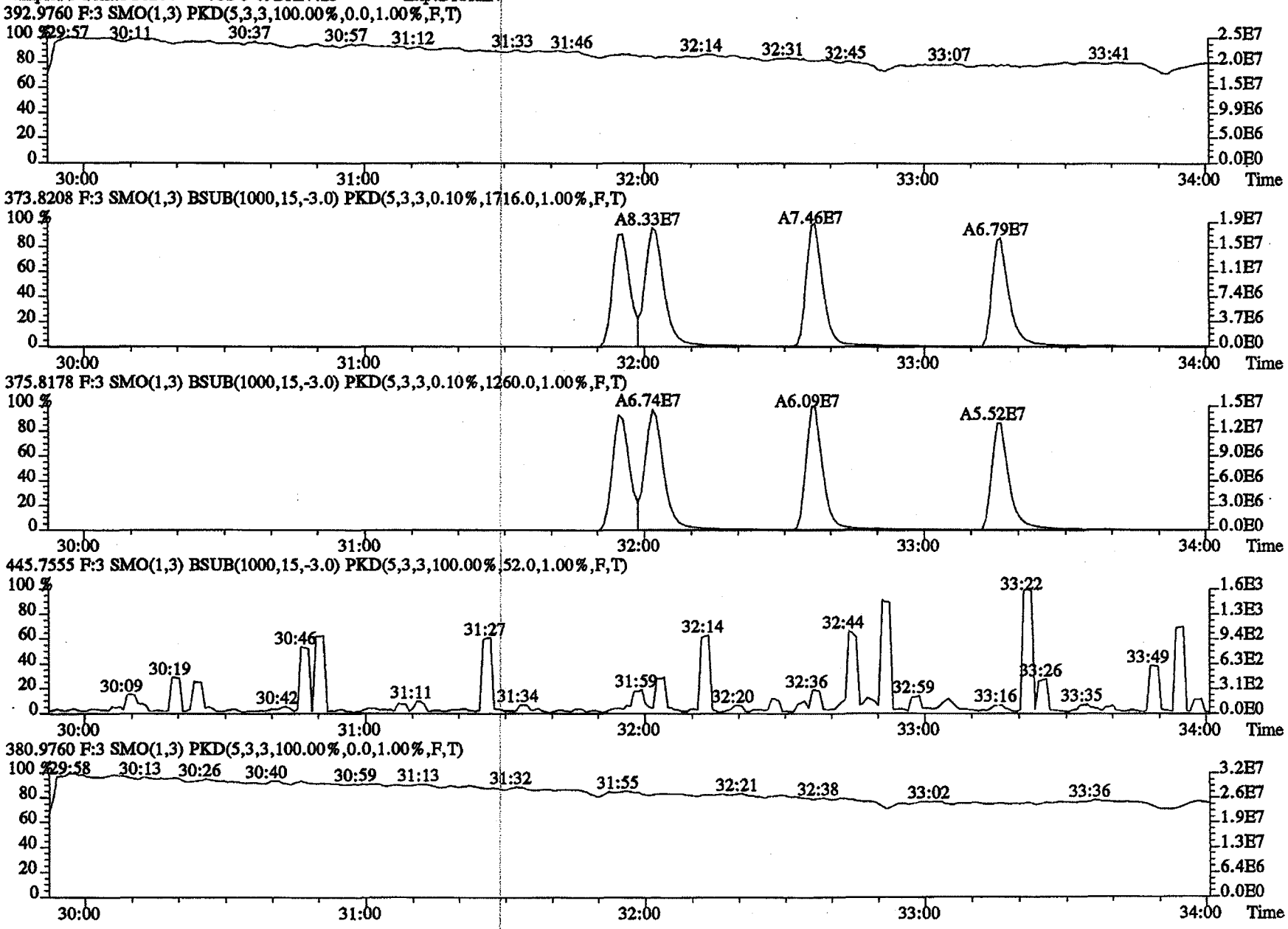
File:04FE104D5 #1-578 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN



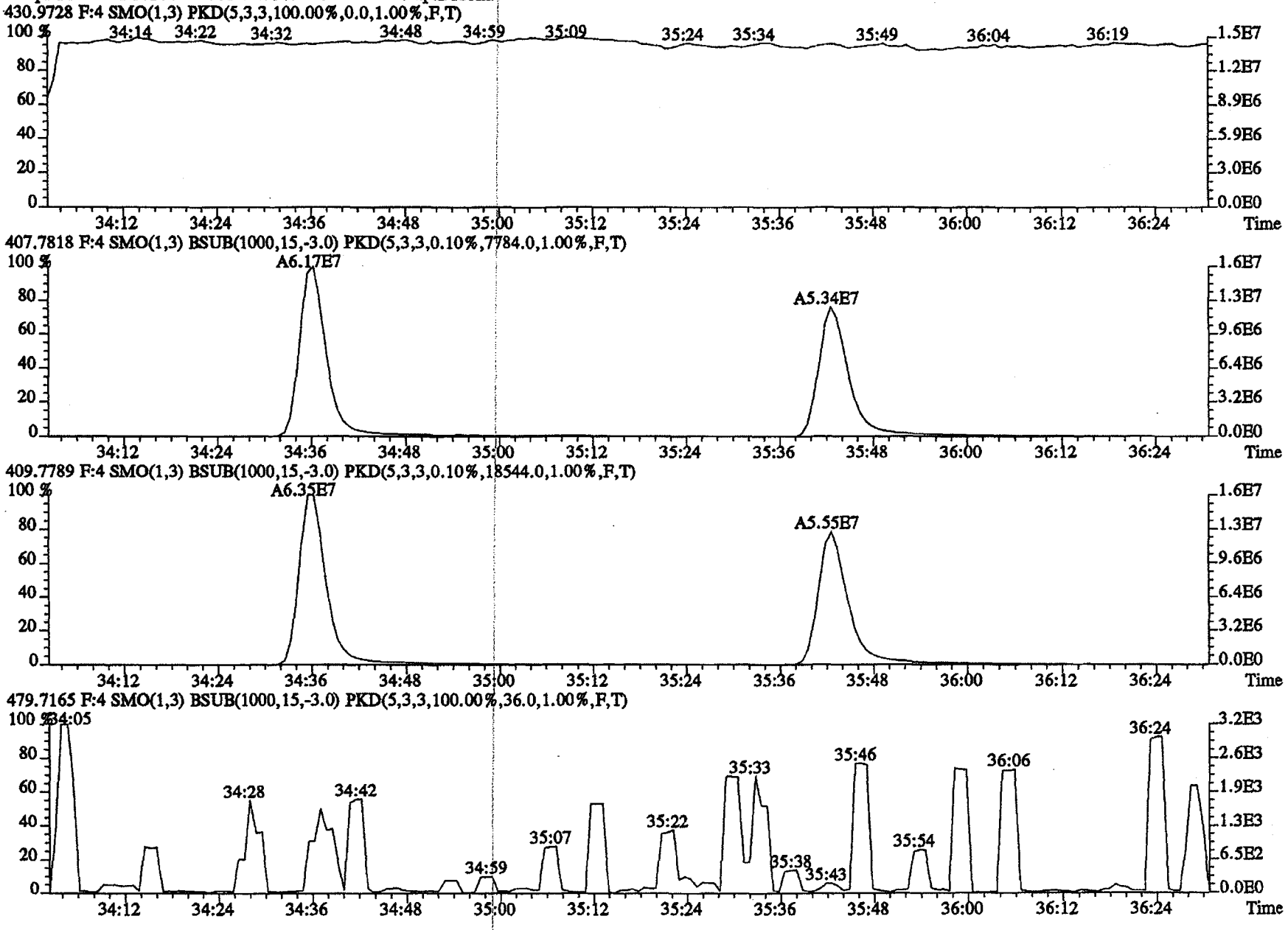
File:04FE104D5 #1-597 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN



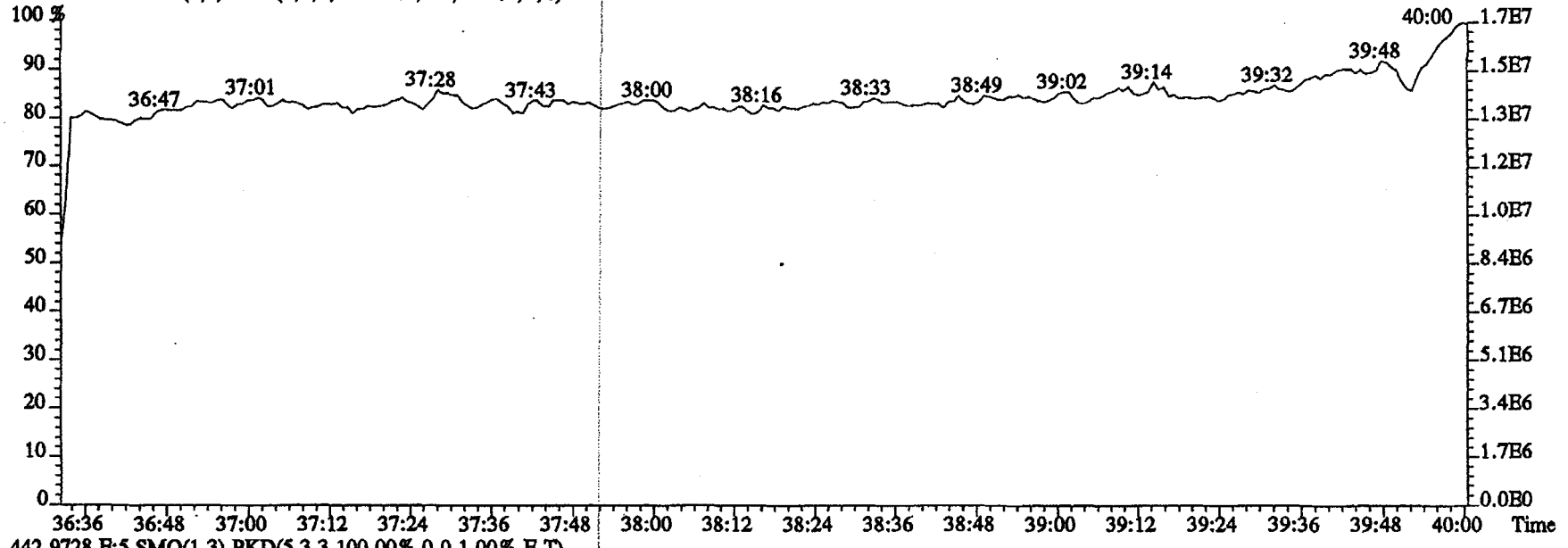
File:04FE104D5 #1-314 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN



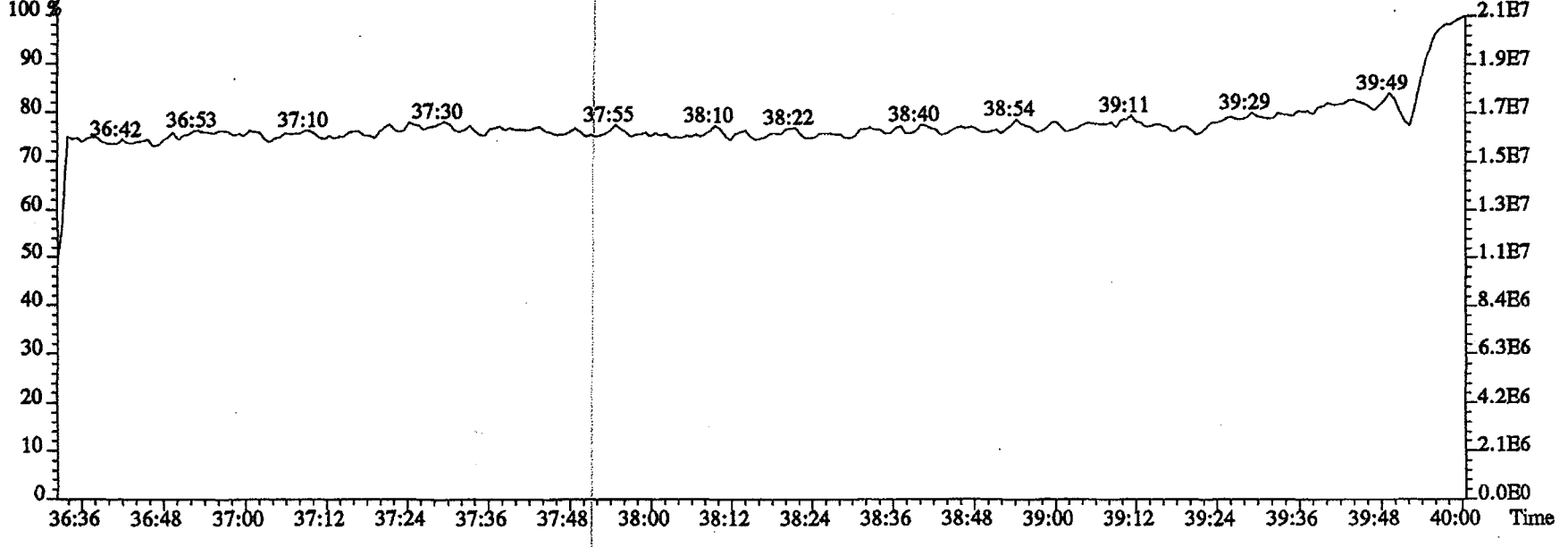
File:04FE104D5 #1-198 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN



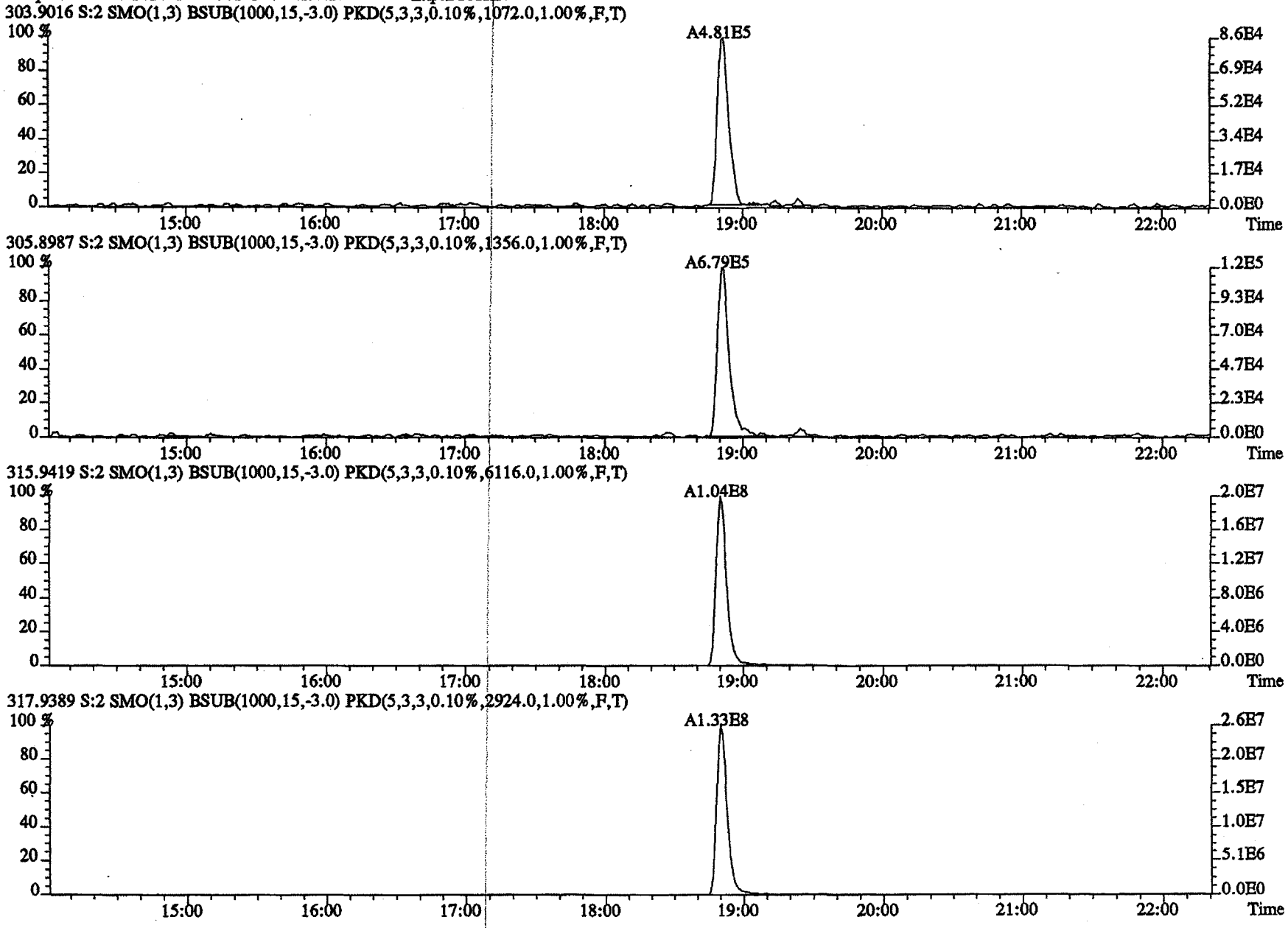
File:04FB104D5 #1-281 Acq: 4-FEB-2010 09:42:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0204 :CS-3 09DXN425 Exp:DIOXIN
454.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



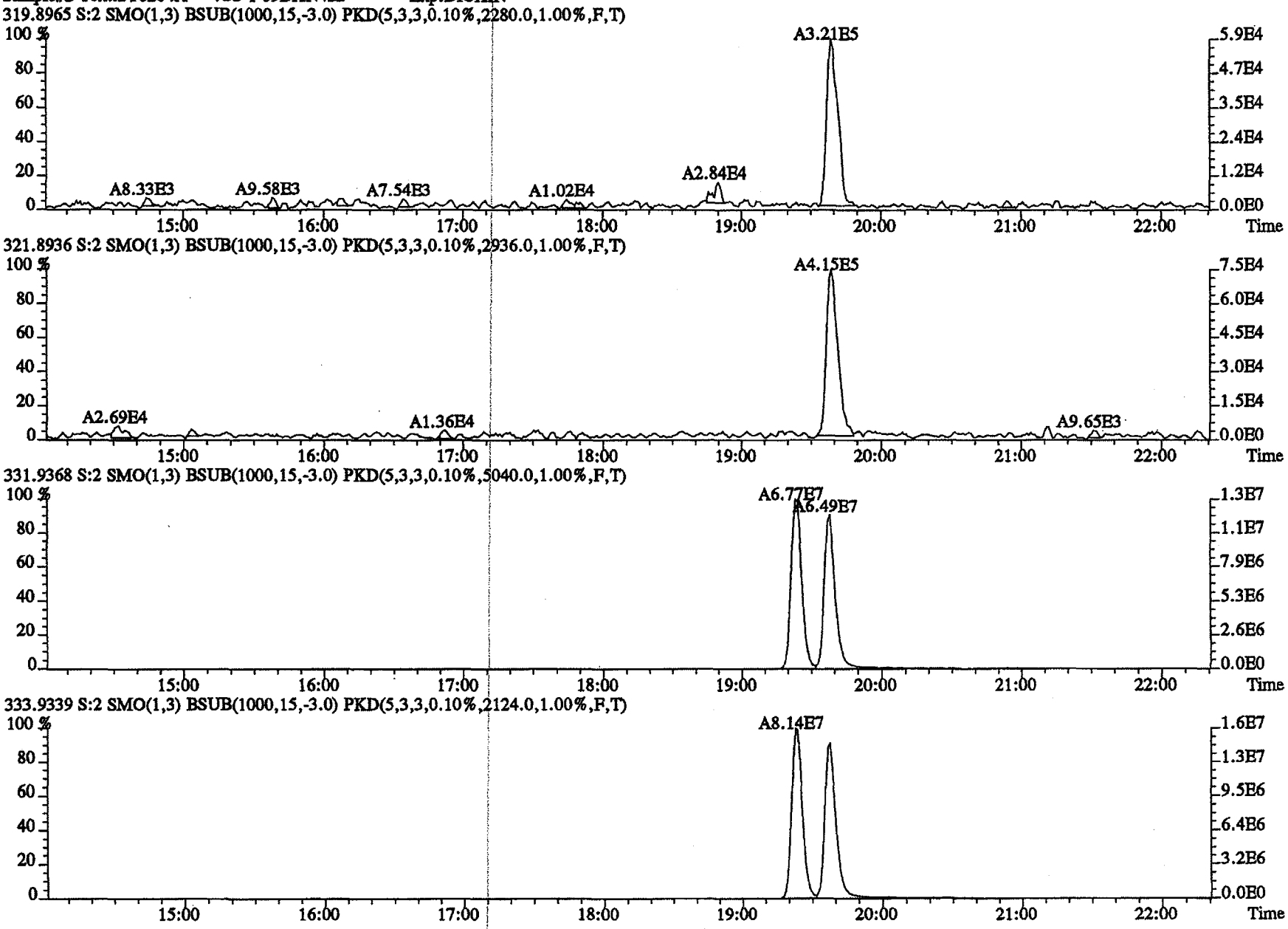
442.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:04FE104D5 #1-578 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN

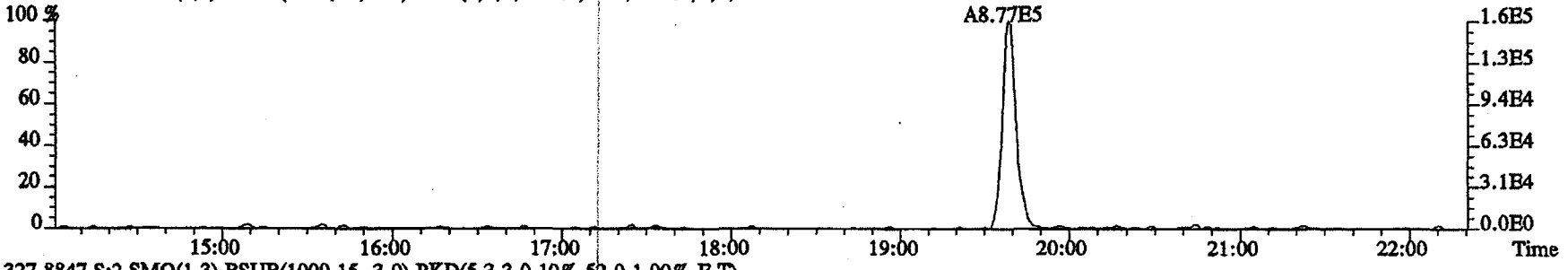


File:04FE104D5 #1-578 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN

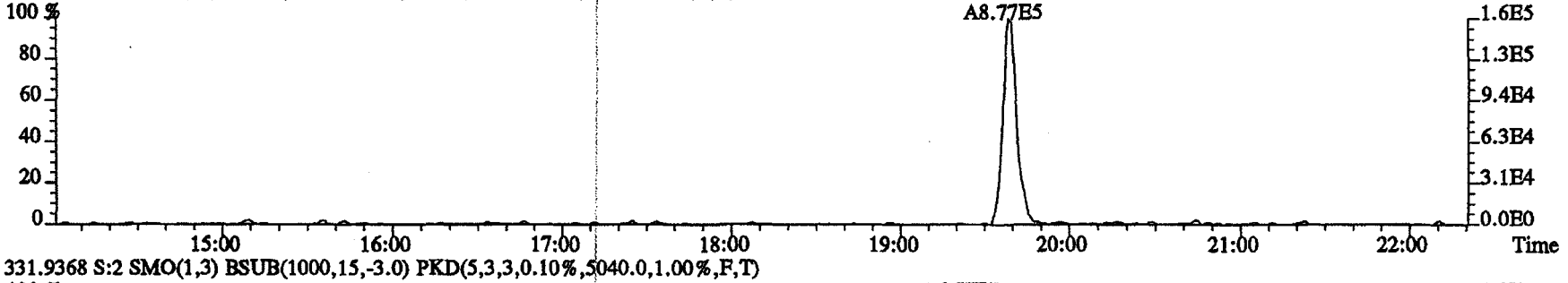


File:04FB104D5 #1-578 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN

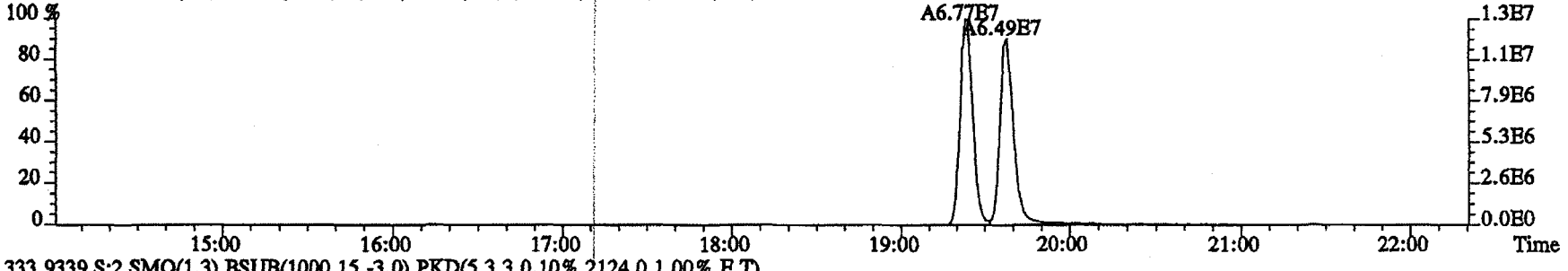
327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52.0,1.00%,F,T)



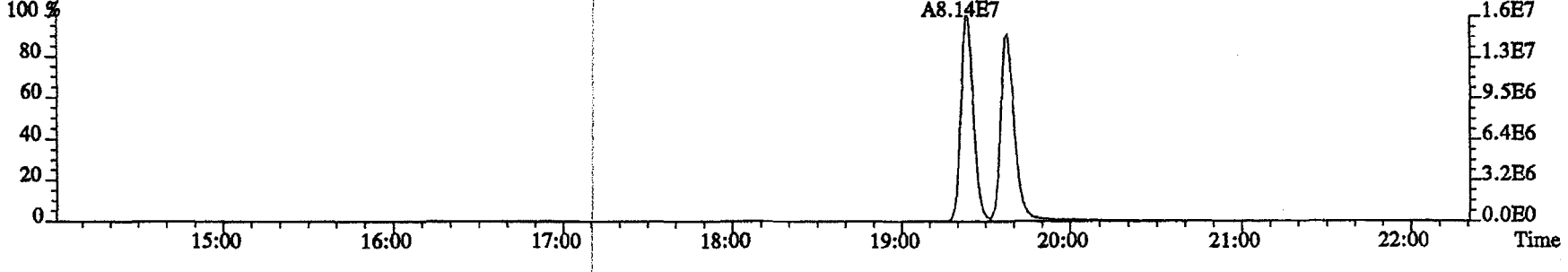
327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52.0,1.00%,F,T)



331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5040.0,1.00%,F,T)

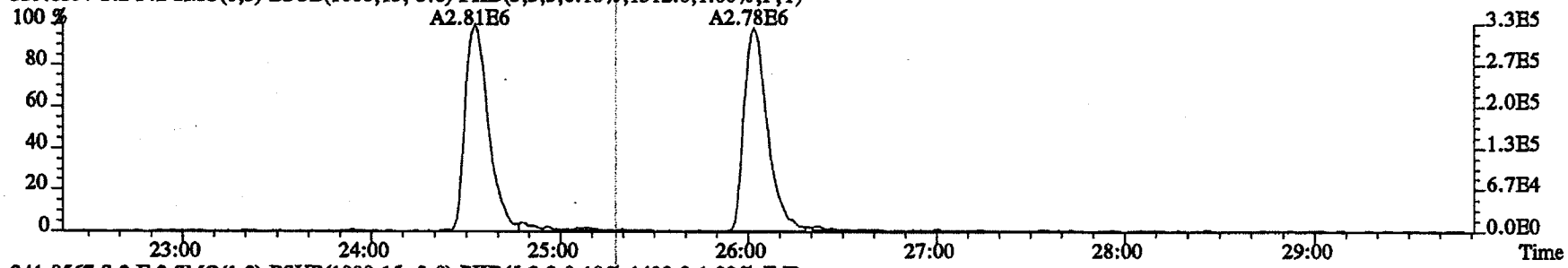


333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2124.0,1.00%,F,T)

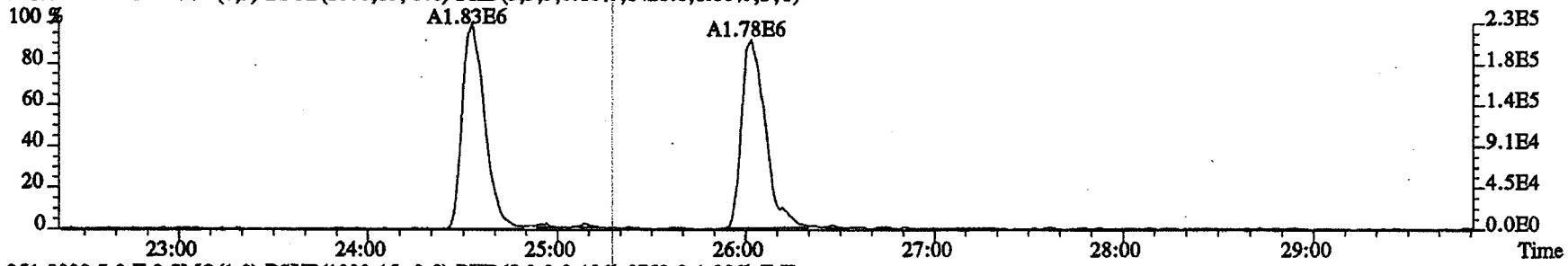


File:04FB104D5 #1-597 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN

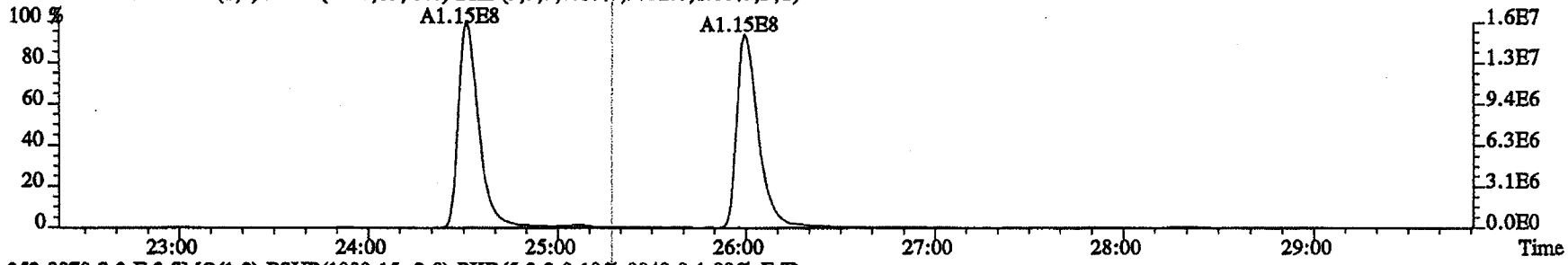
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1312.0,1.00%,F,T)



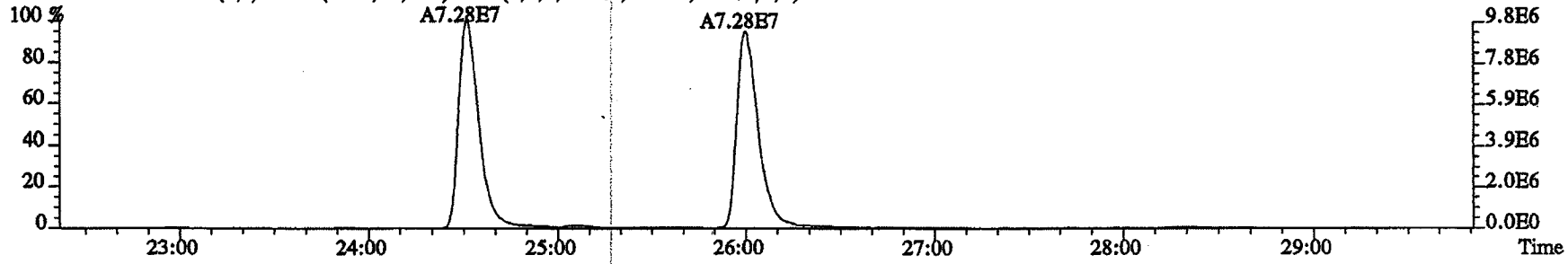
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1420.0,1.00%,F,T)



351.9000 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9752.0,1.00%,F,T)

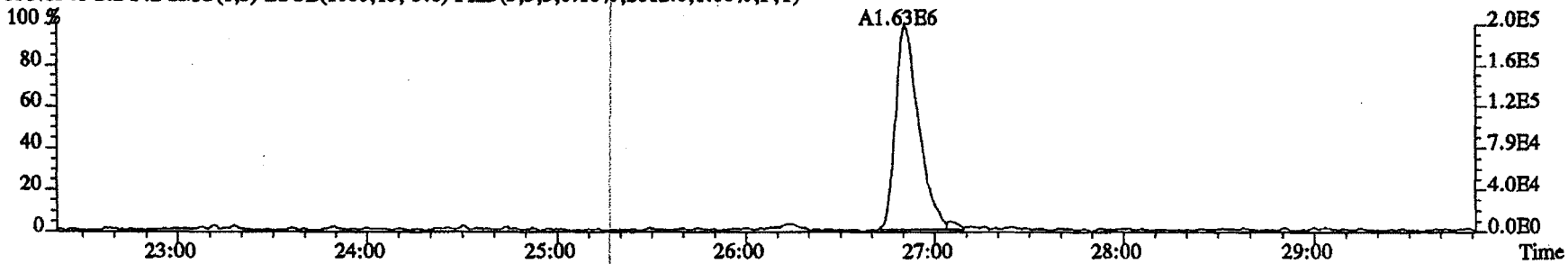


353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8040.0,1.00%,F,T)

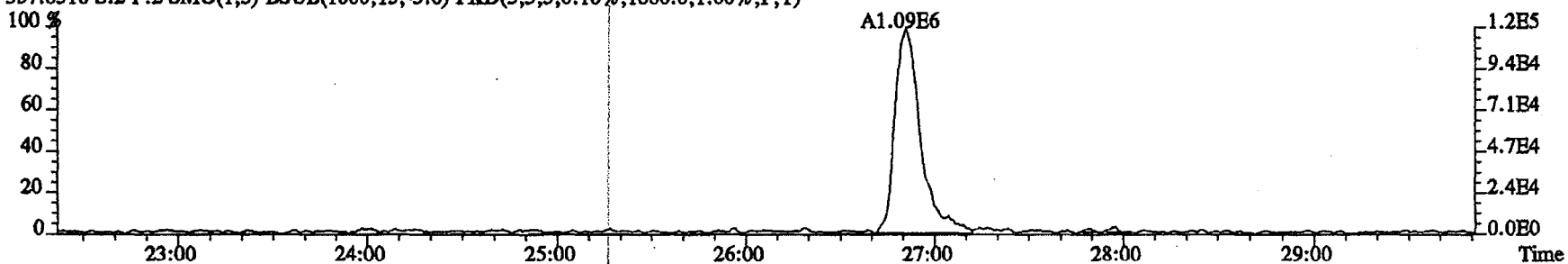


File:04FB104D5 #1-597 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN

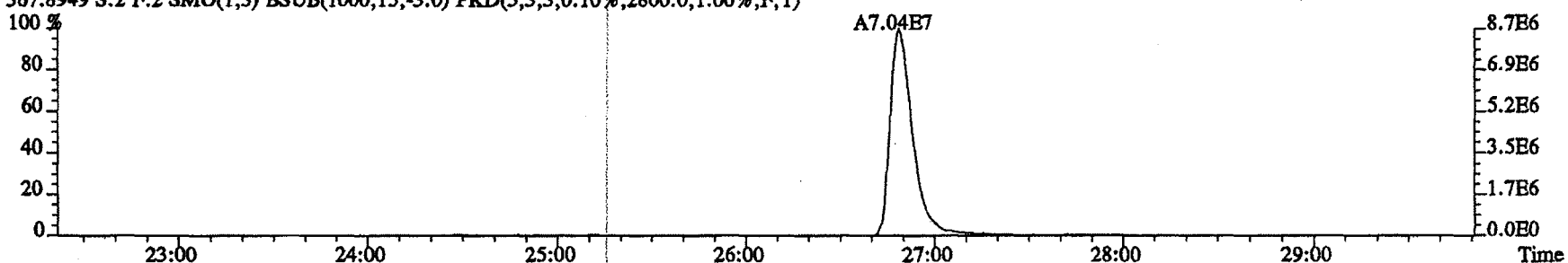
355.8546 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2812.0,1.00%,F,T)



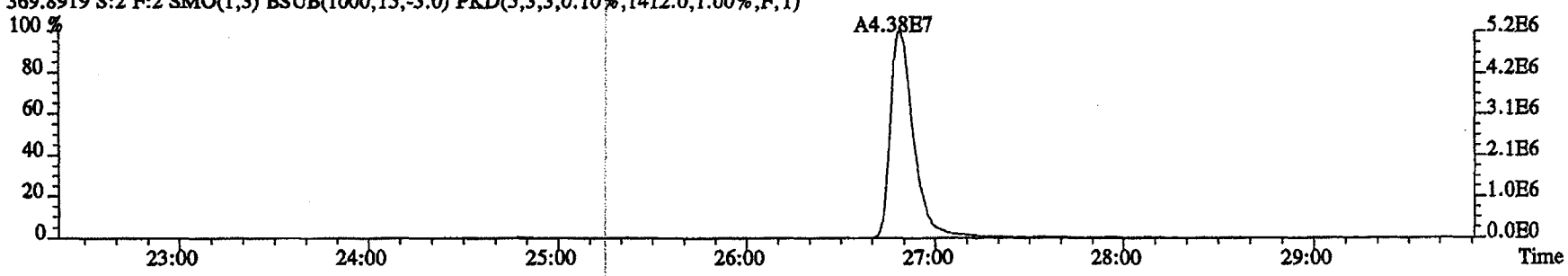
357.8516 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1880.0,1.00%,F,T)



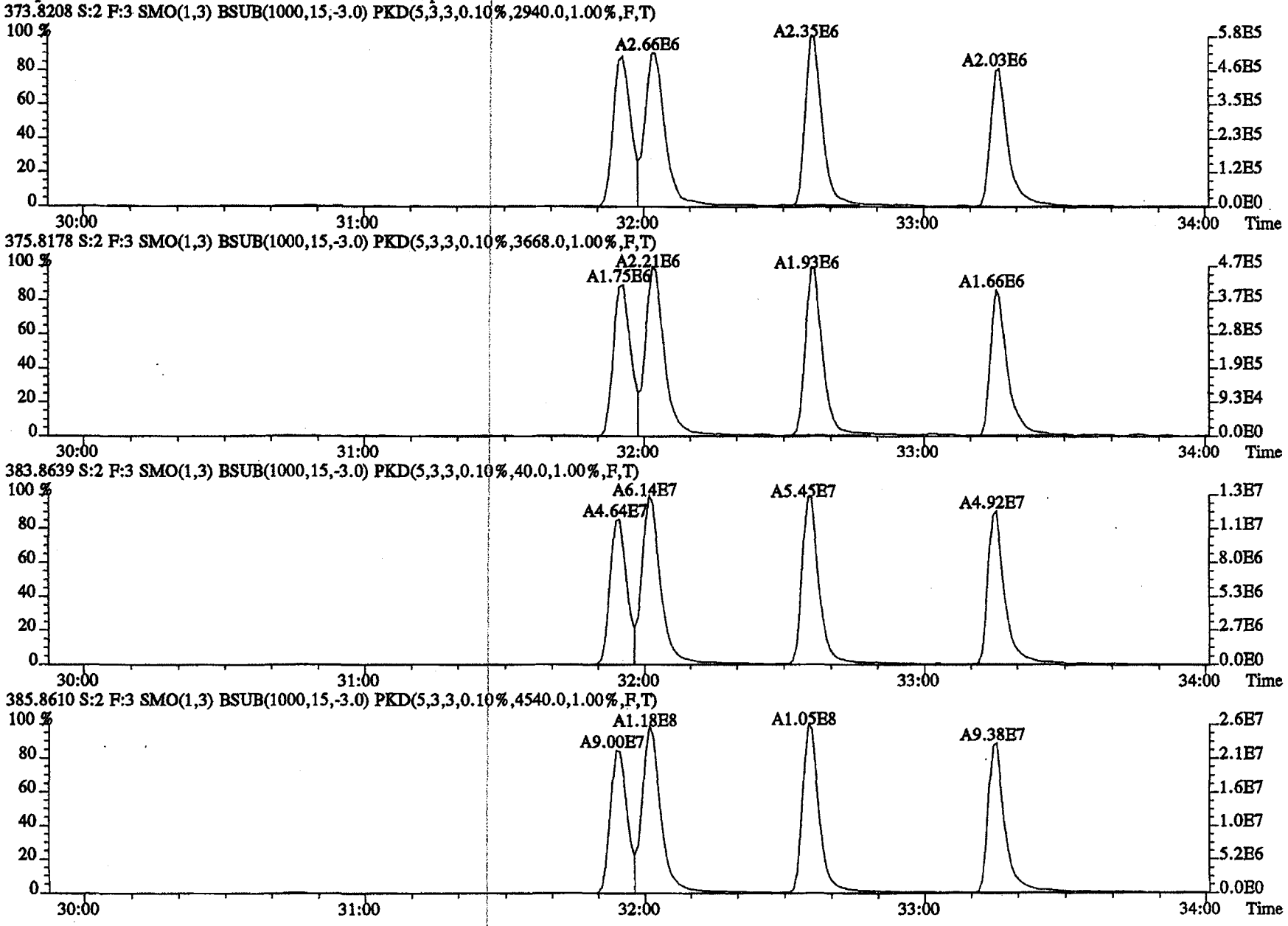
367.8949 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2800.0,1.00%,F,T)



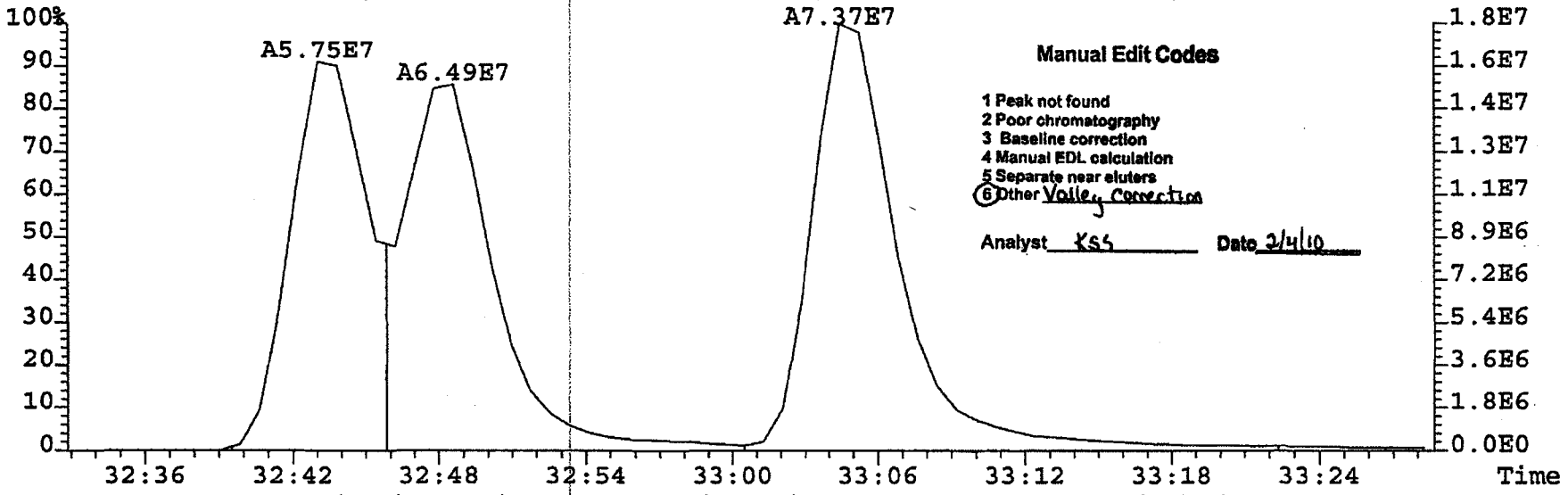
369.8919 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1412.0,1.00%,F,T)



File:04FE104D5 #1-314 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN



File:04FE104D5 #1-314 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN
401.8559 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,120.0,1.00%,F,T)

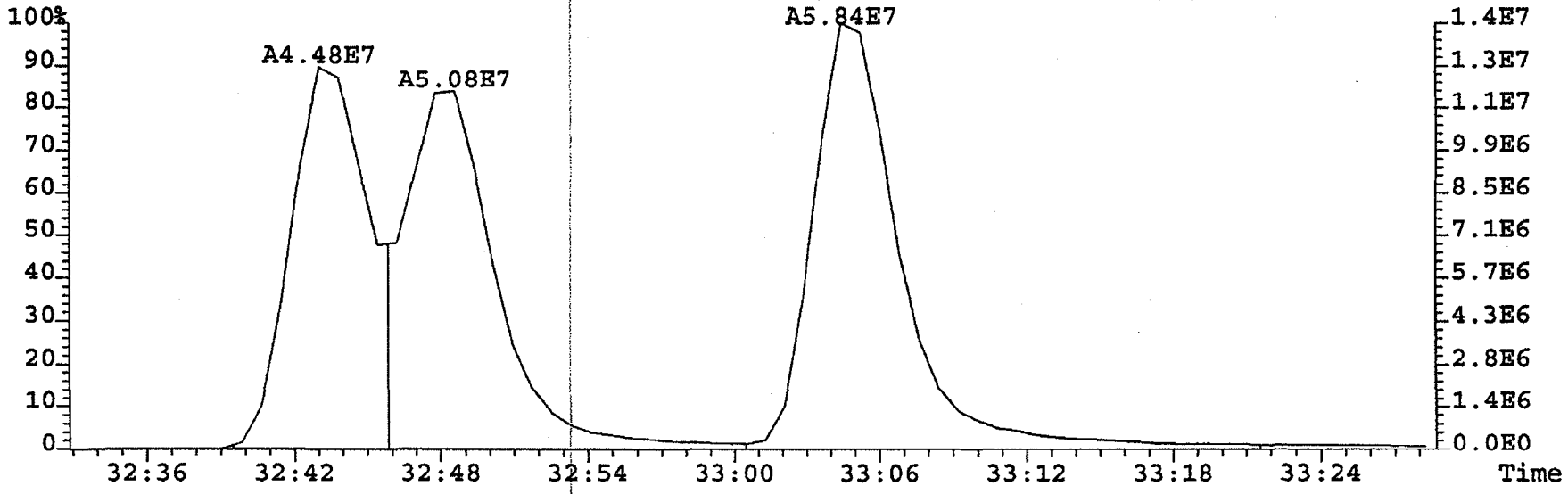


Manual Edit Codes

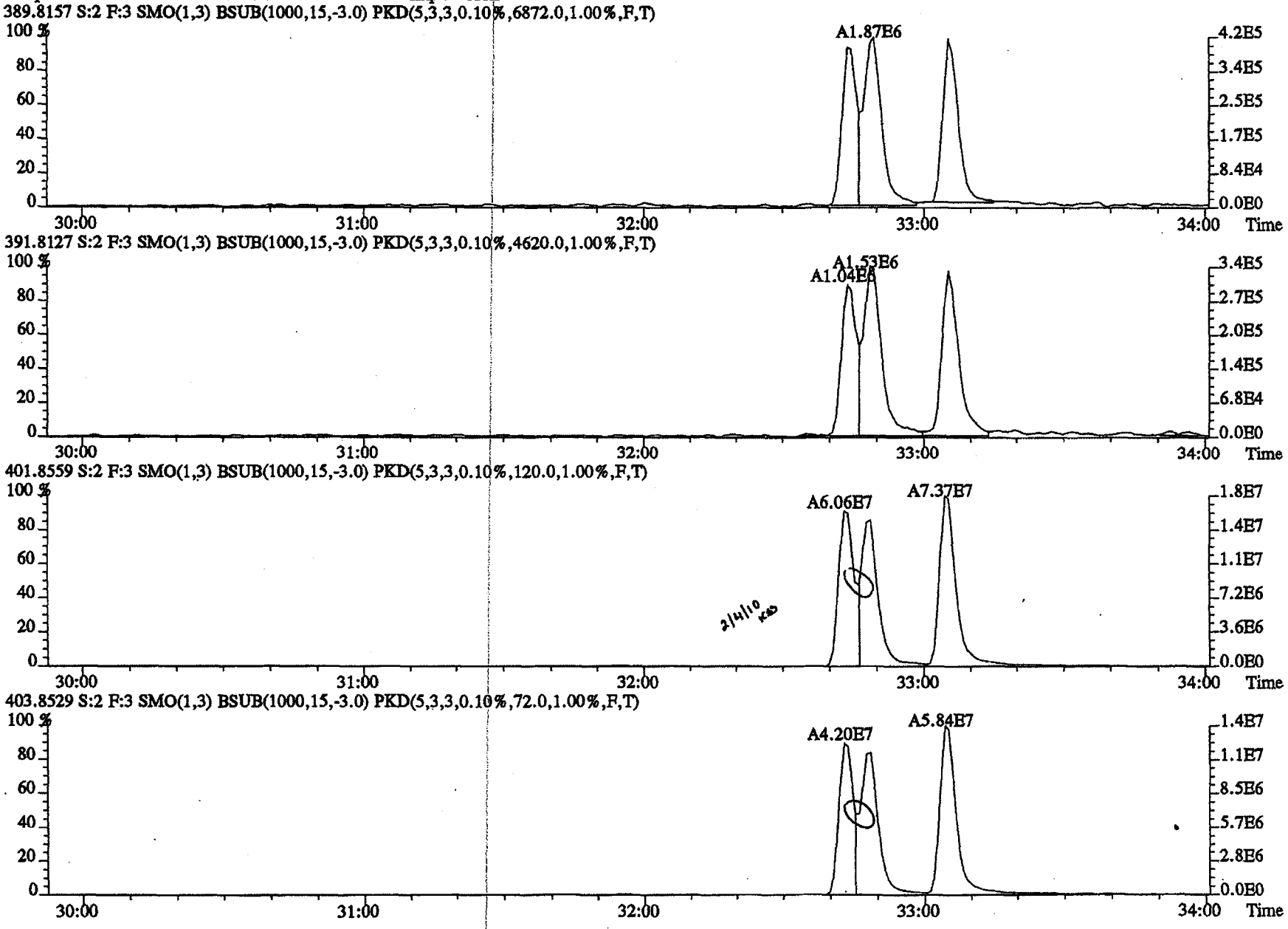
1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other Valley Correction

Analyst KSS Date 2/4/10

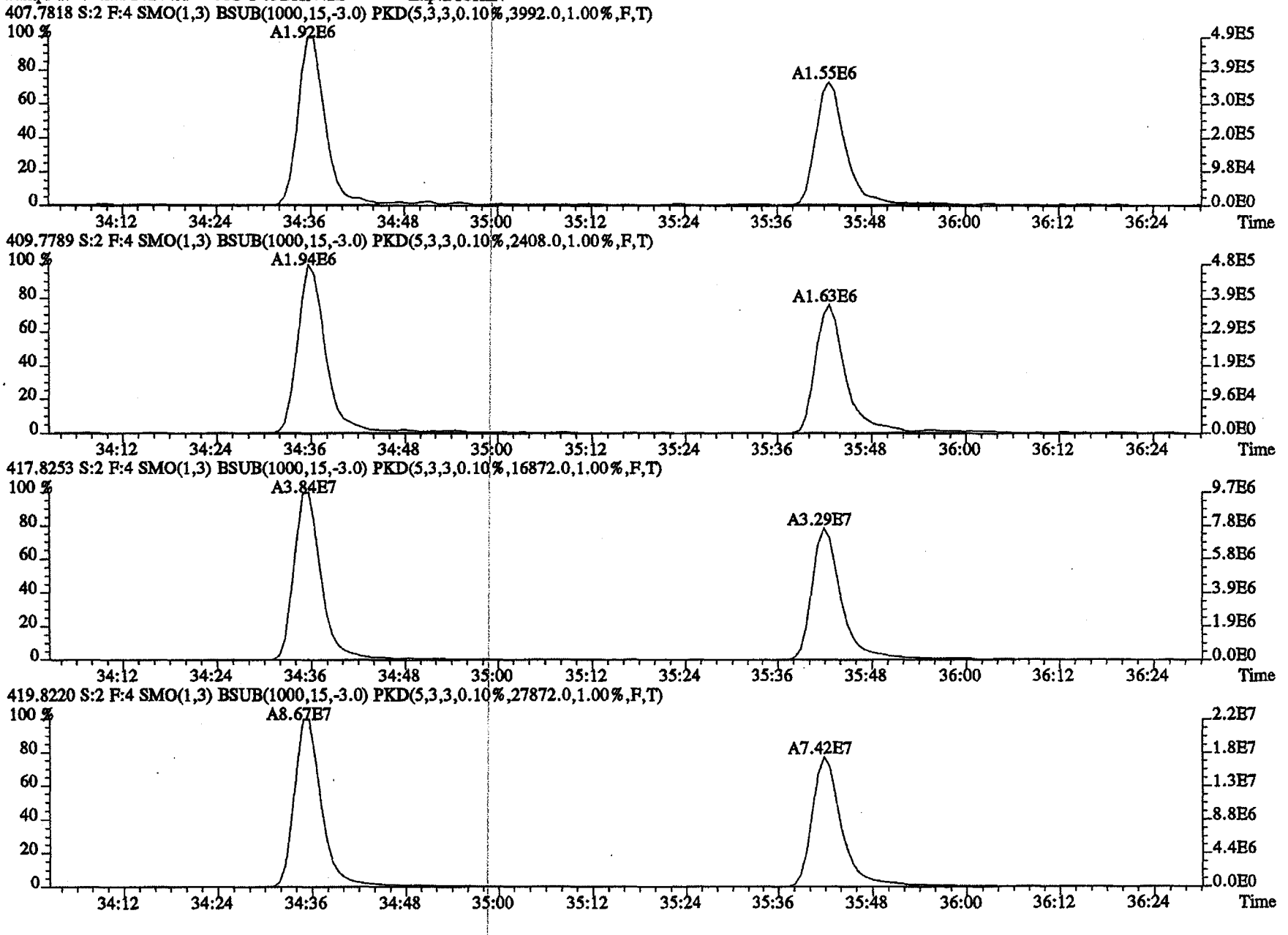
403.8529 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,72.0,1.00%,F,T)



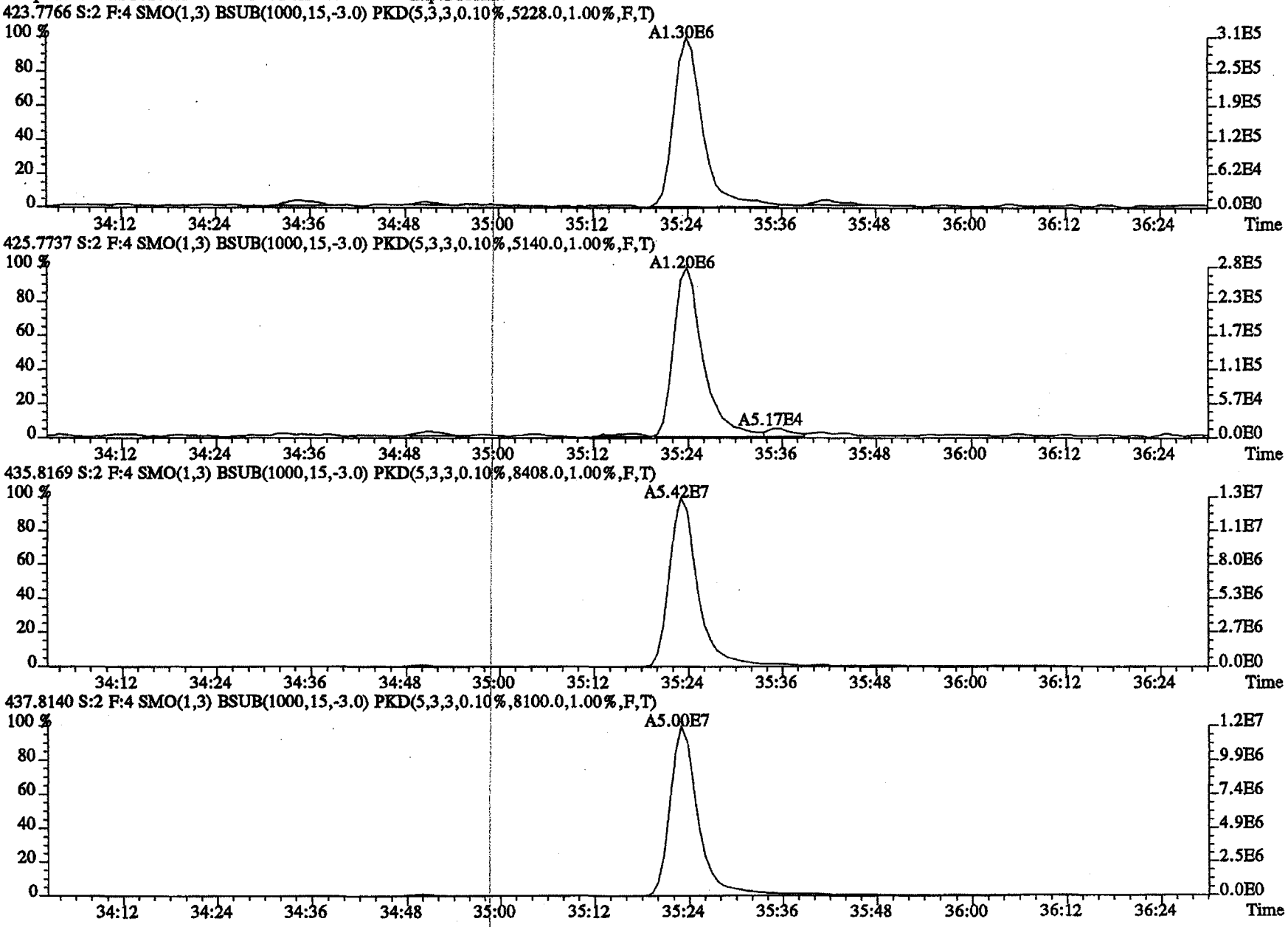
File:04FE104D5 #1-314 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN



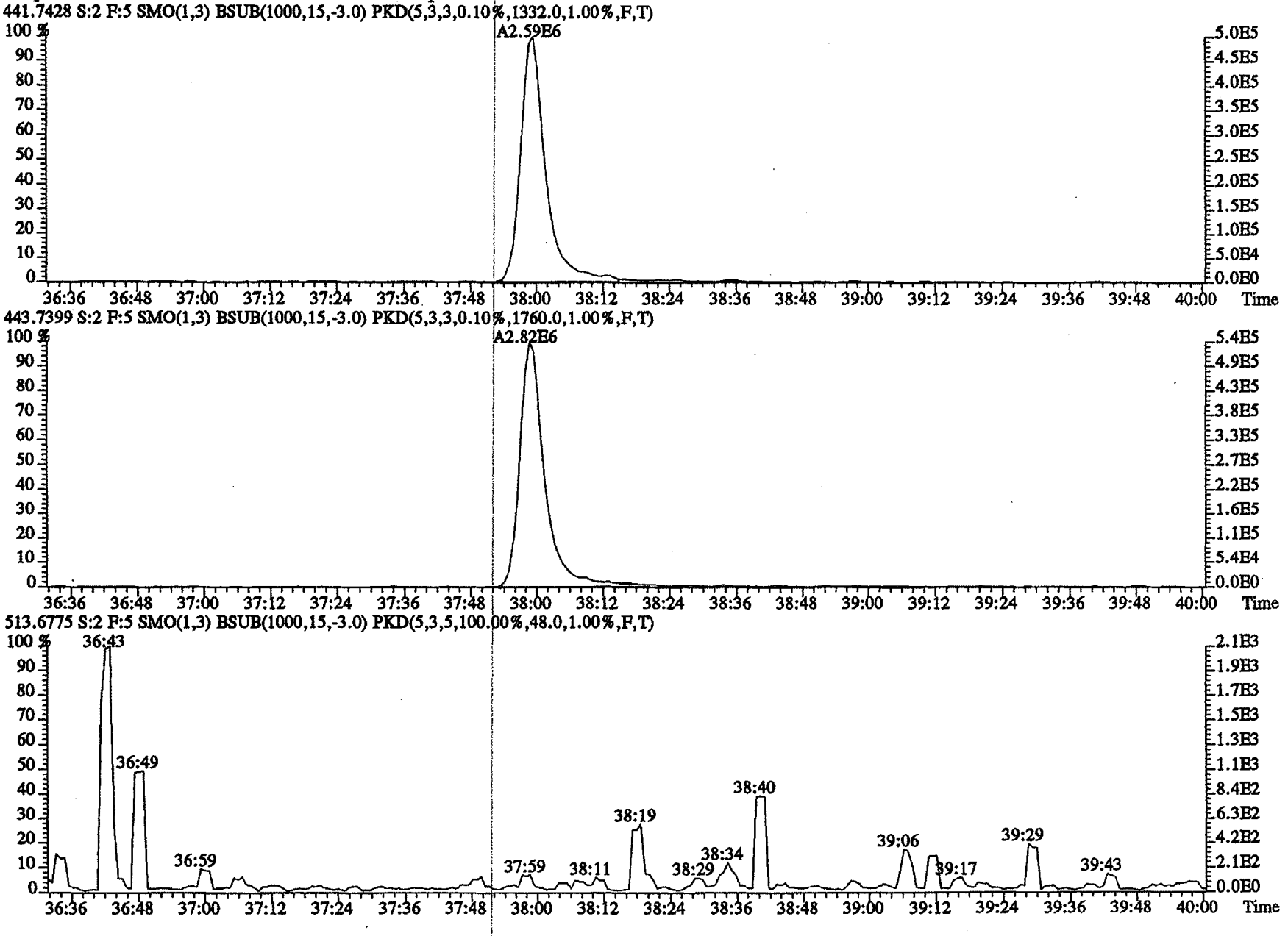
File:04FE104D5 #1-197 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN



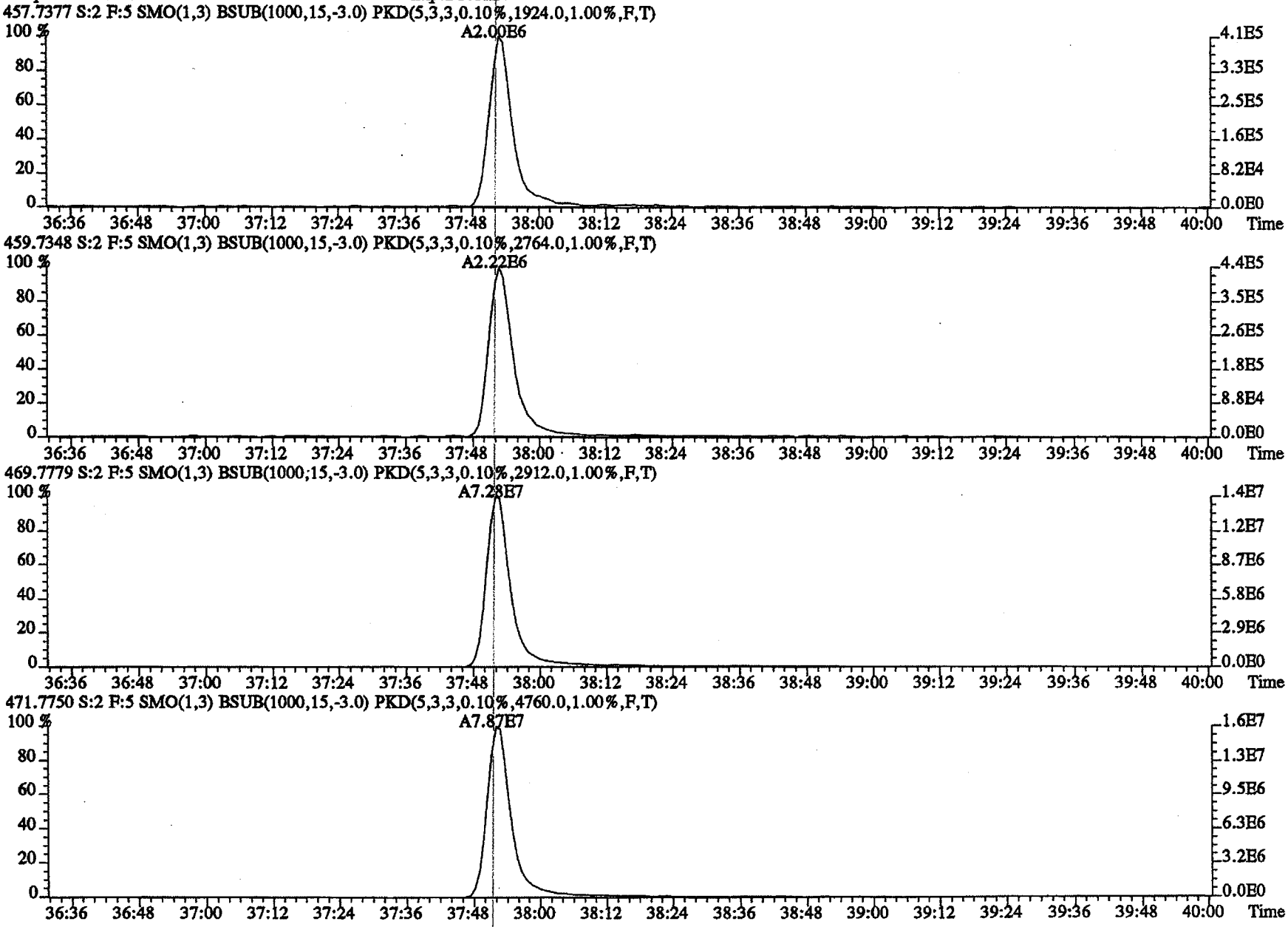
File:04FB104D5 #1-197 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN



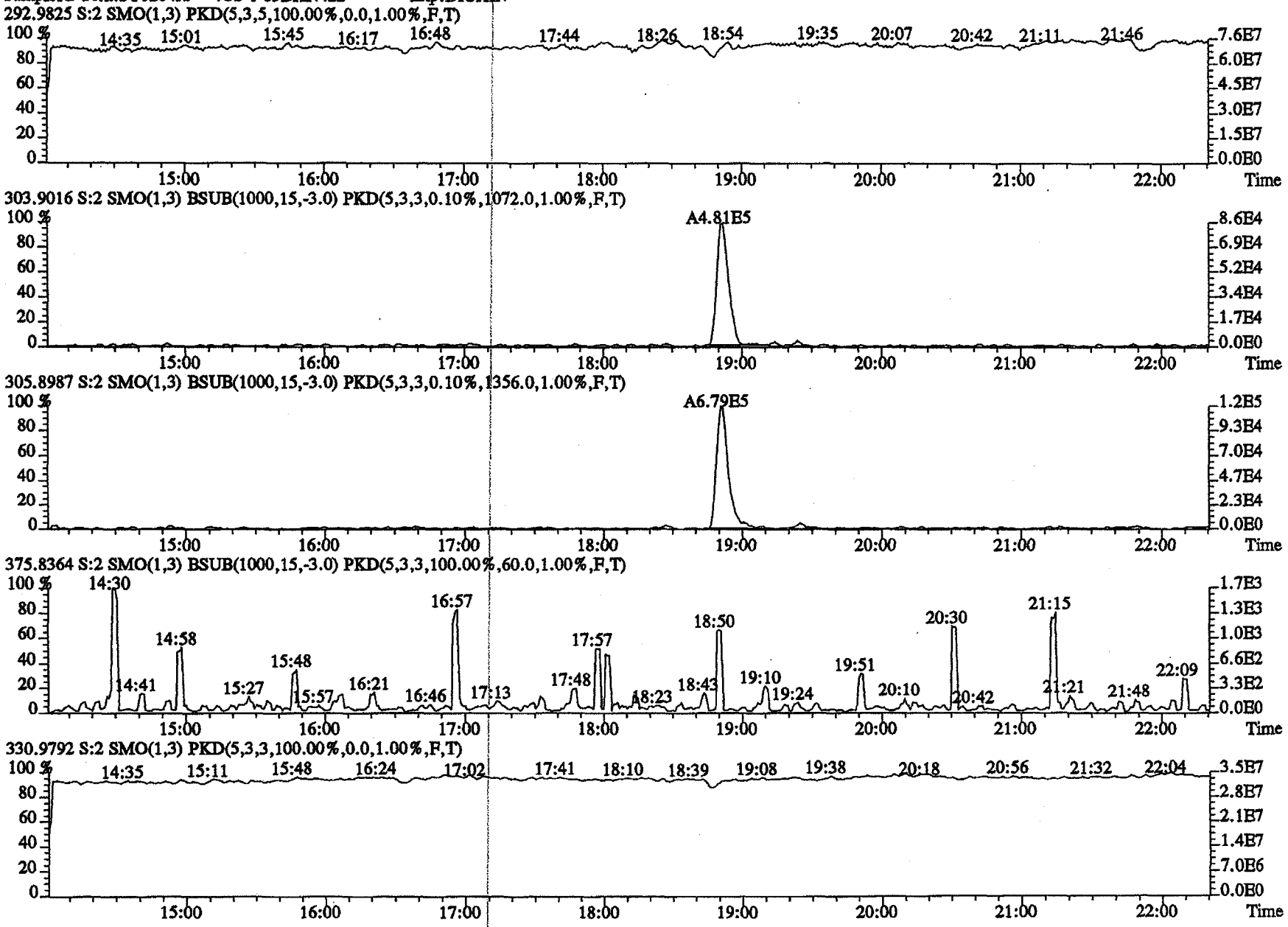
File:04FE104D5 #1-282 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN



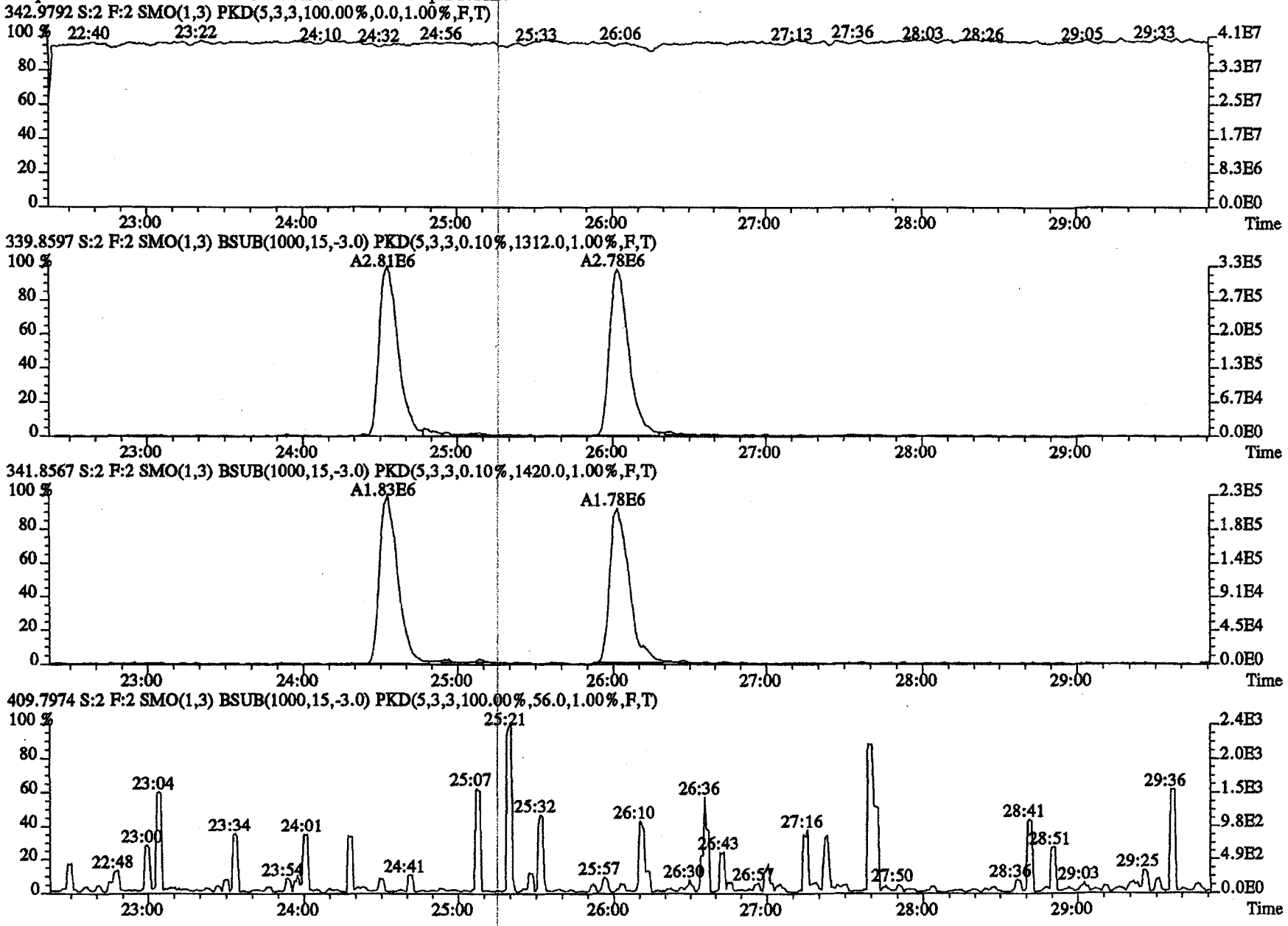
File:04FB104D5 #1-282 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN



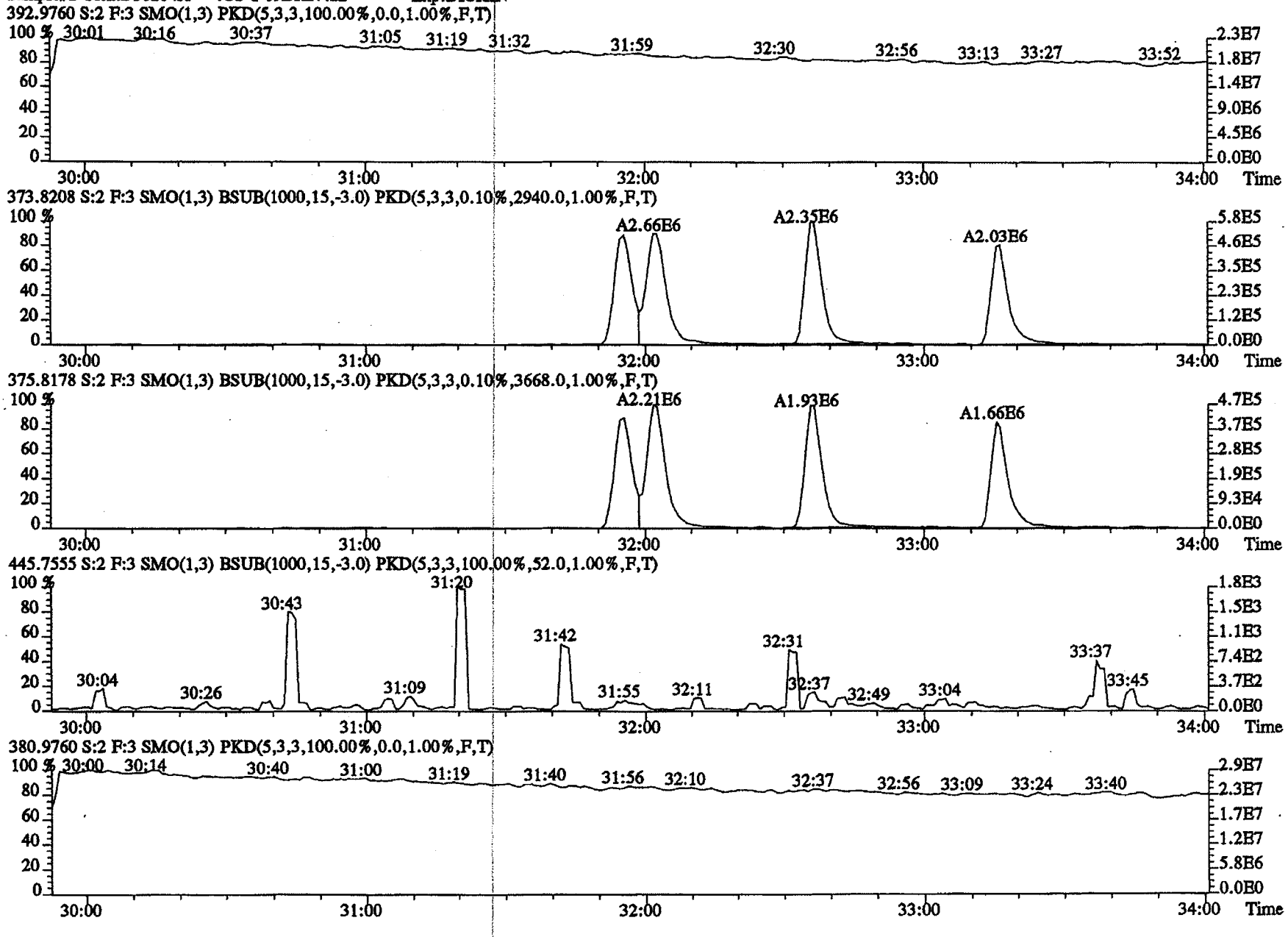
File:04FE104D5 #1-578 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN



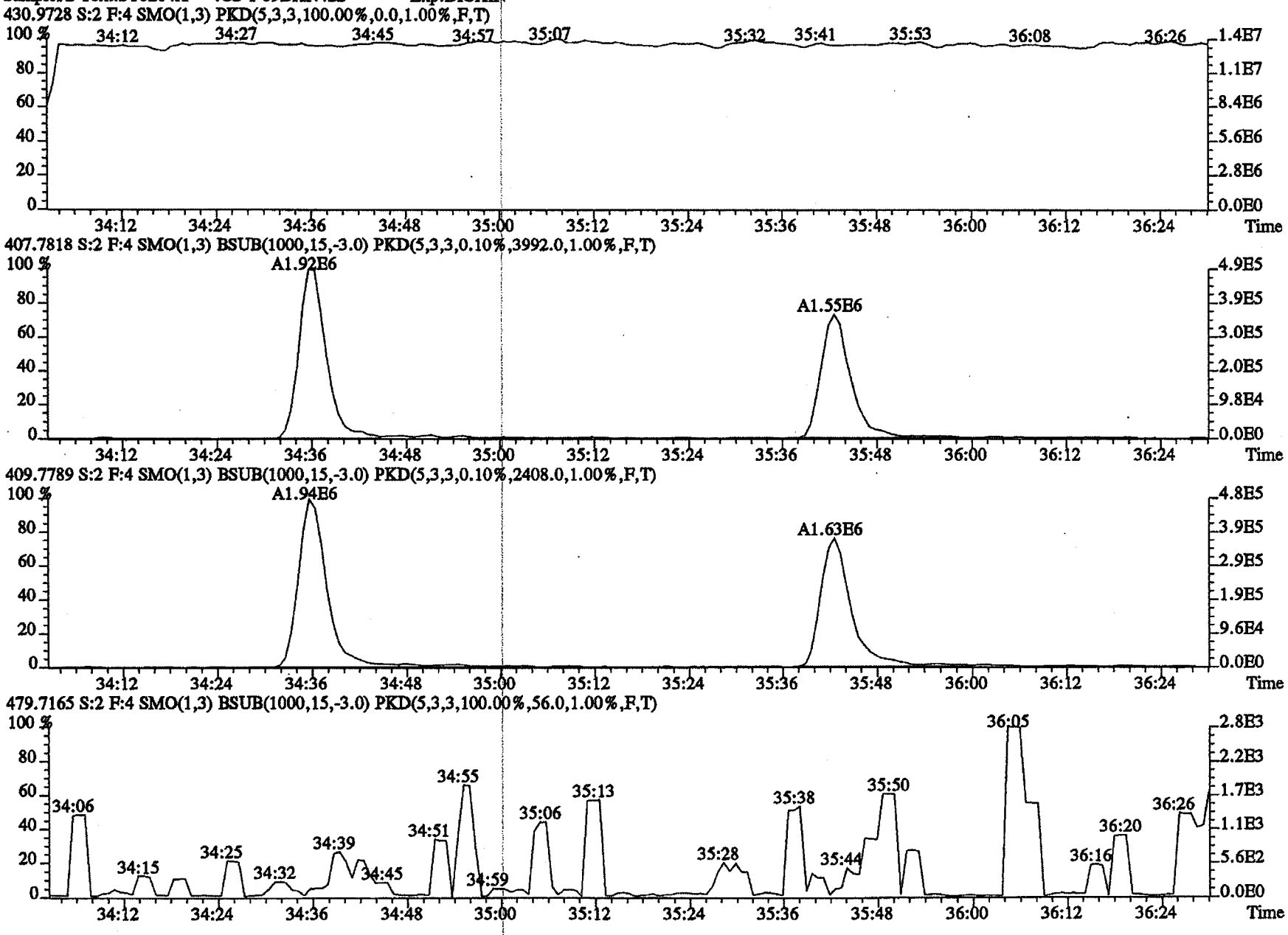
File:04FB104D5 #1-597 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN



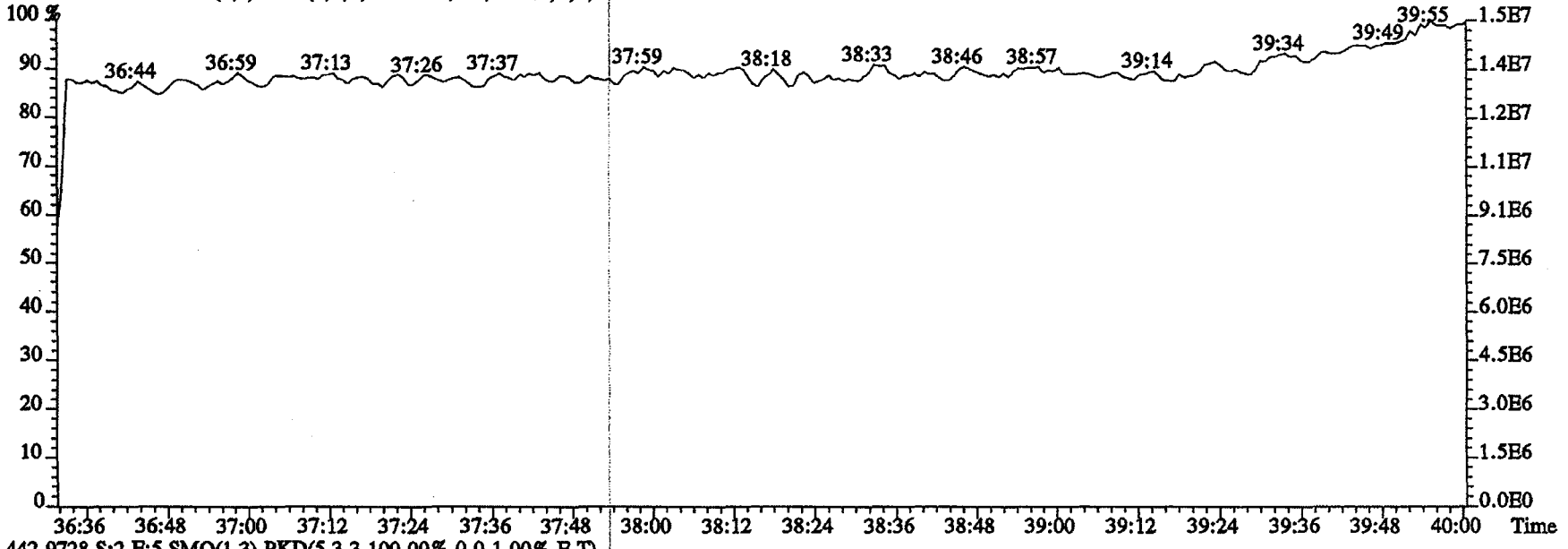
File:04FE104D5 #1-314 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN



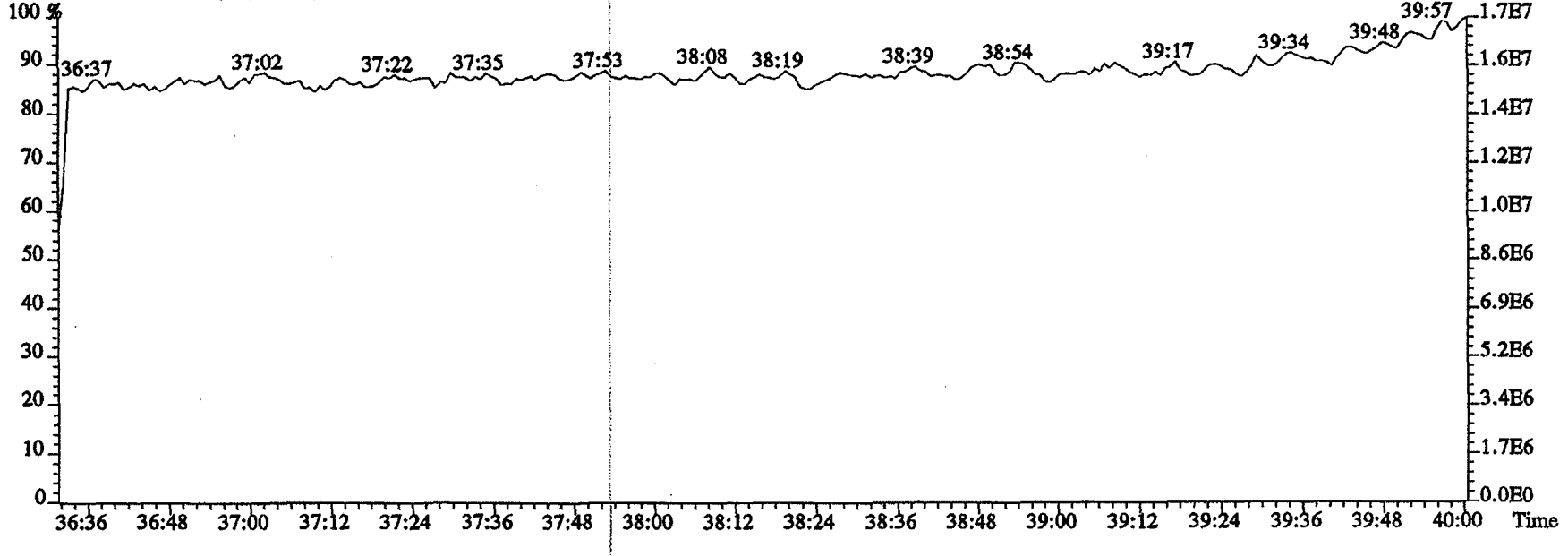
File:04FB104D5 #1-197 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN



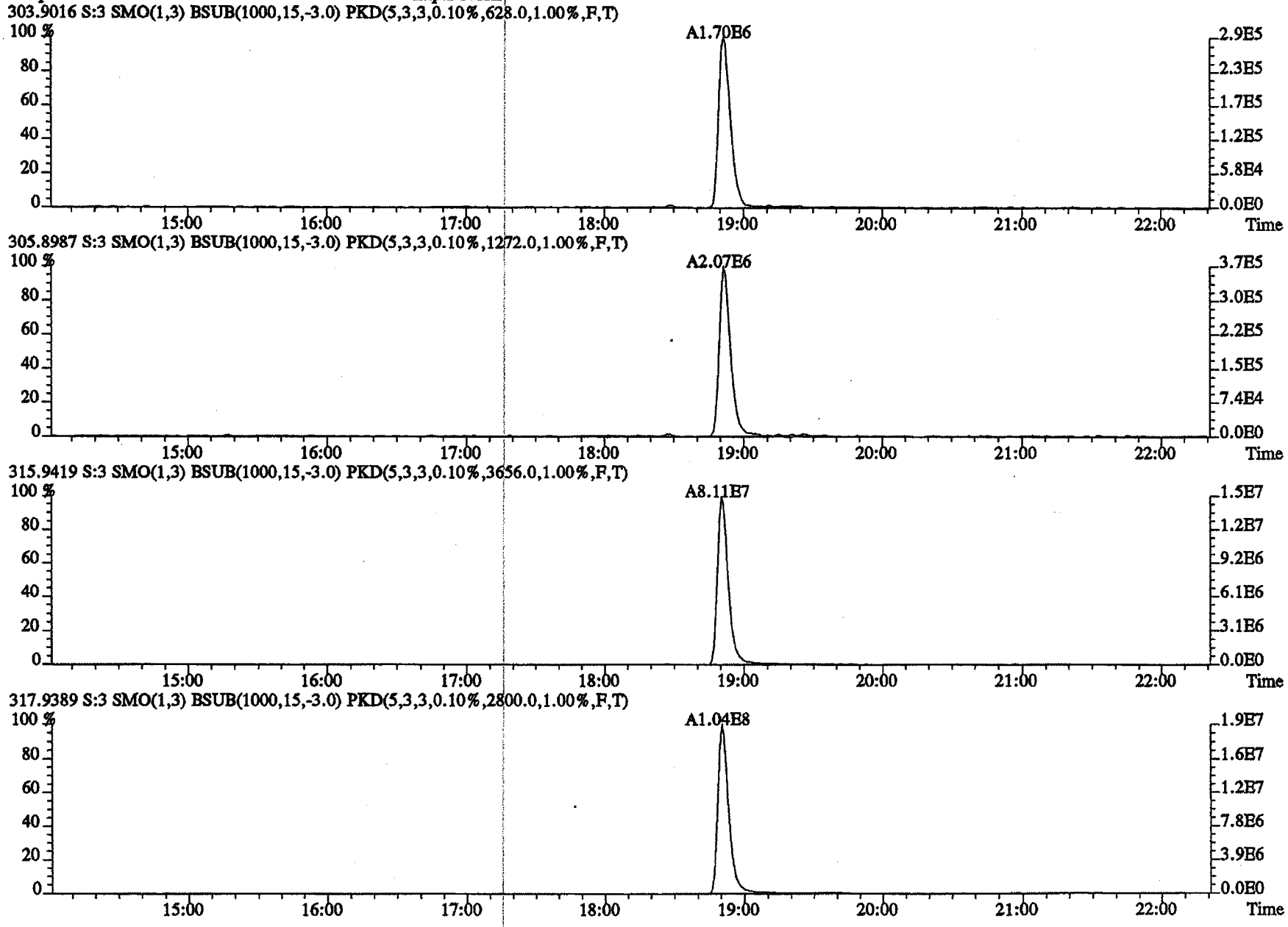
File:04FB104D5 #1-282 Acq: 4-FEB-2010 10:26:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST0204A :CS-1 09DXN422 Exp:DIOXIN
454.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

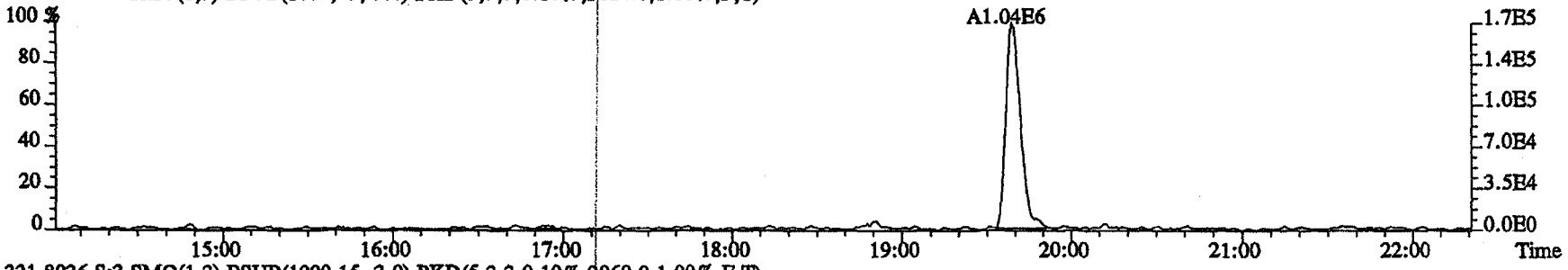


File:04FE104D5 #1-578 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN

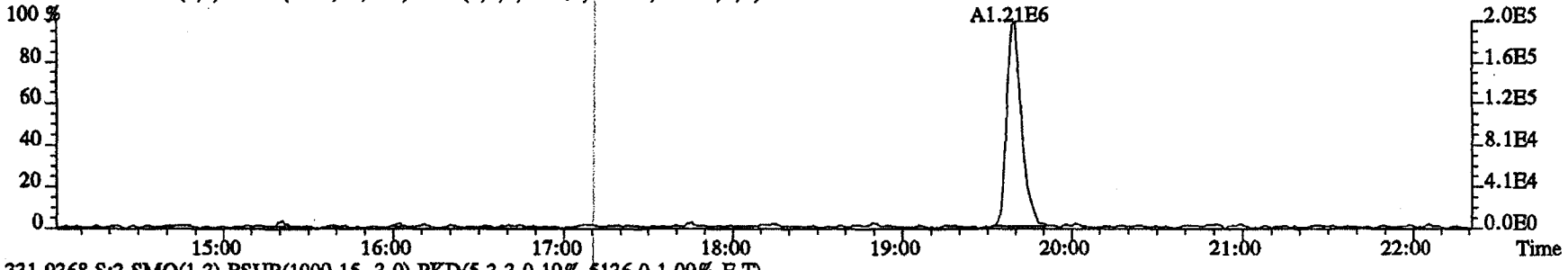


File:04FE104D5 #1-578 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN

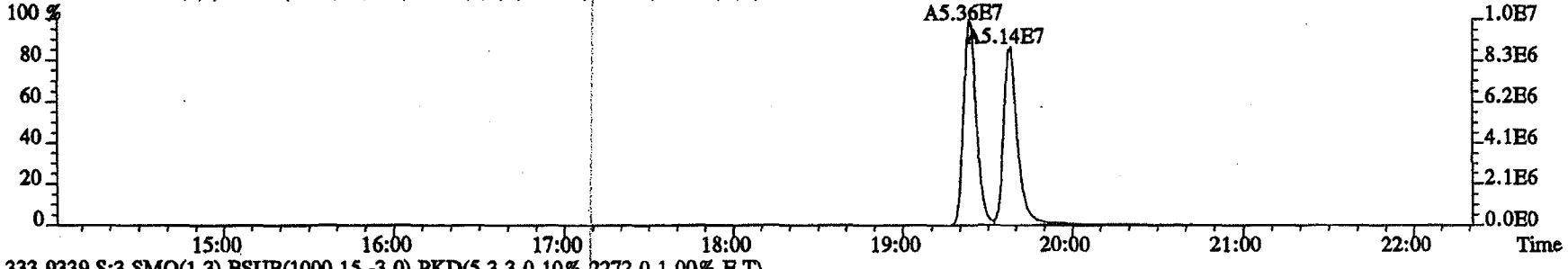
319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2624.0,1.00%,F,T)



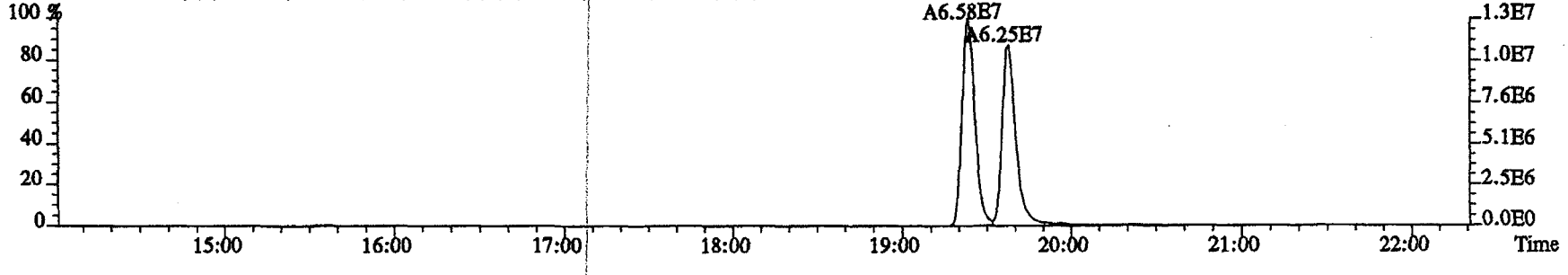
321.8936 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2960.0,1.00%,F,T)



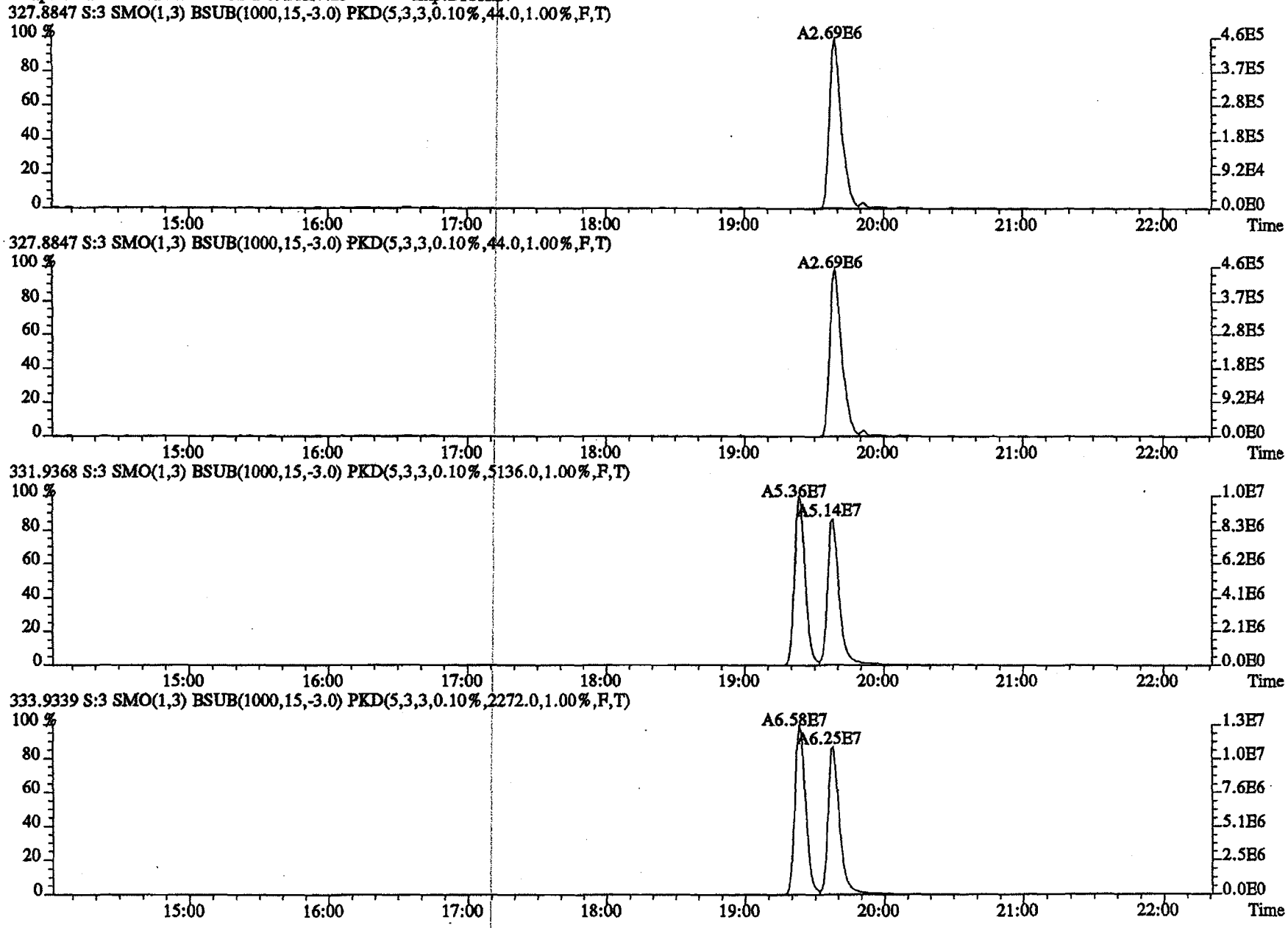
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5136.0,1.00%,F,T)



333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2272.0,1.00%,F,T)

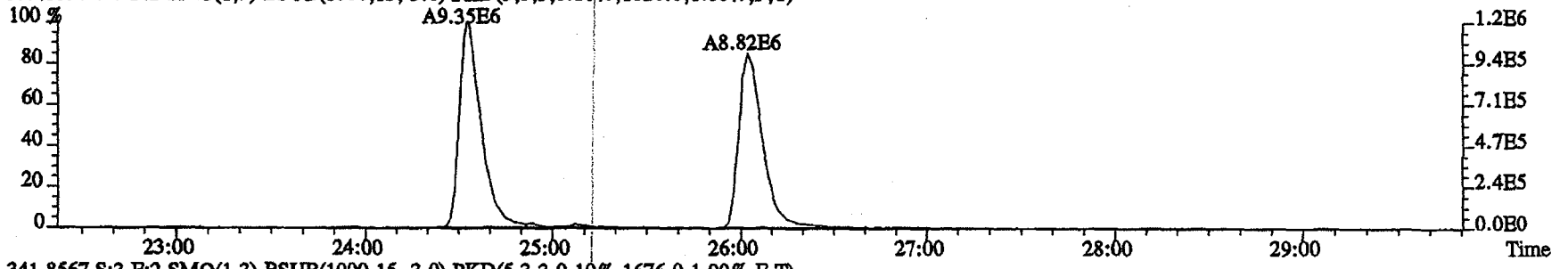


File:04FE104D5 #1-578 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN

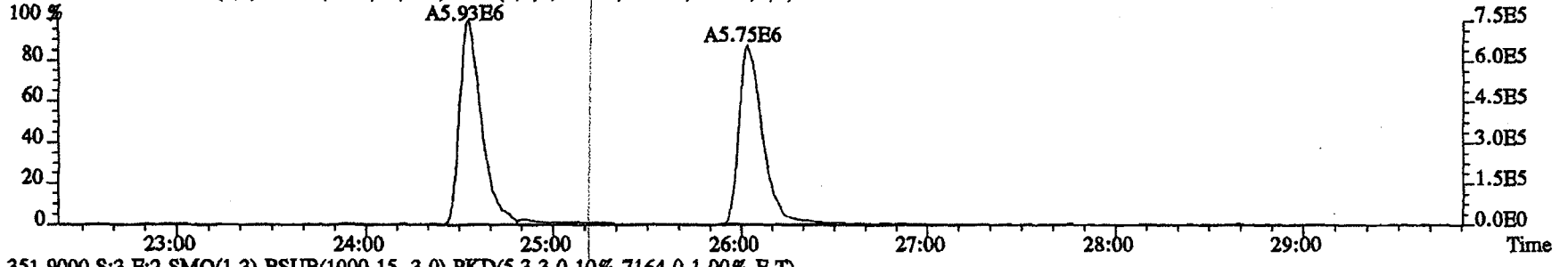


File:04FB104D5 #1-596 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN

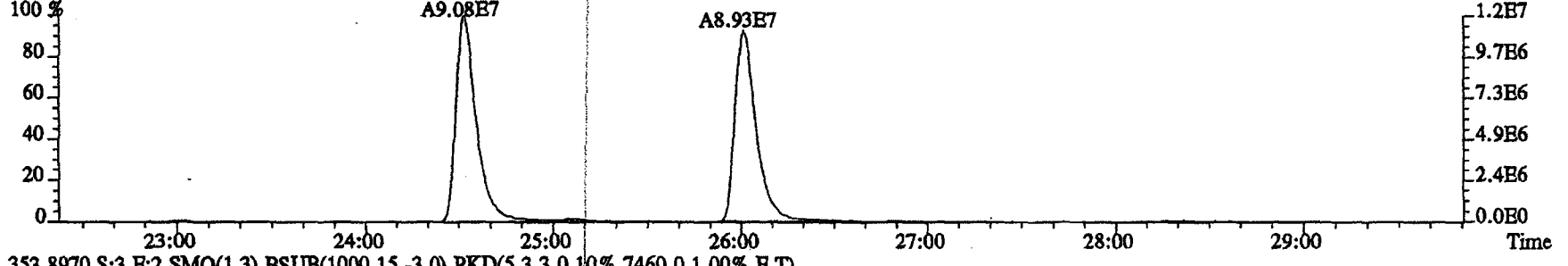
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1828.0,1.00%,F,T)



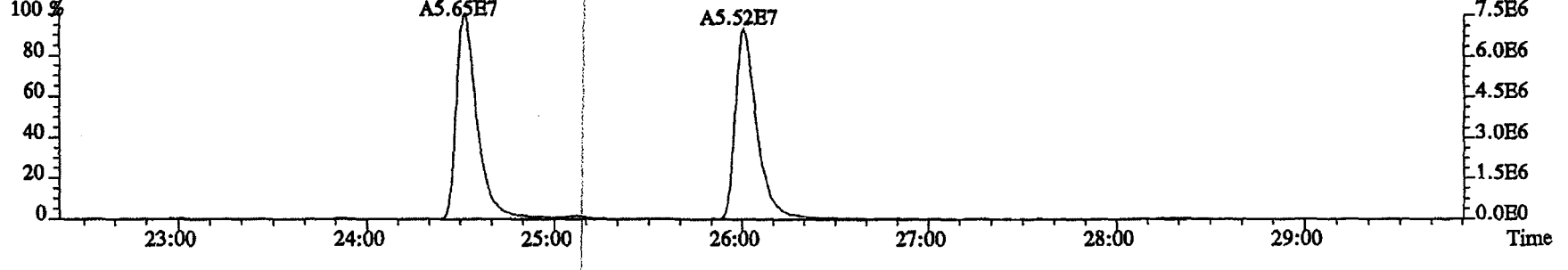
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1676.0,1.00%,F,T)



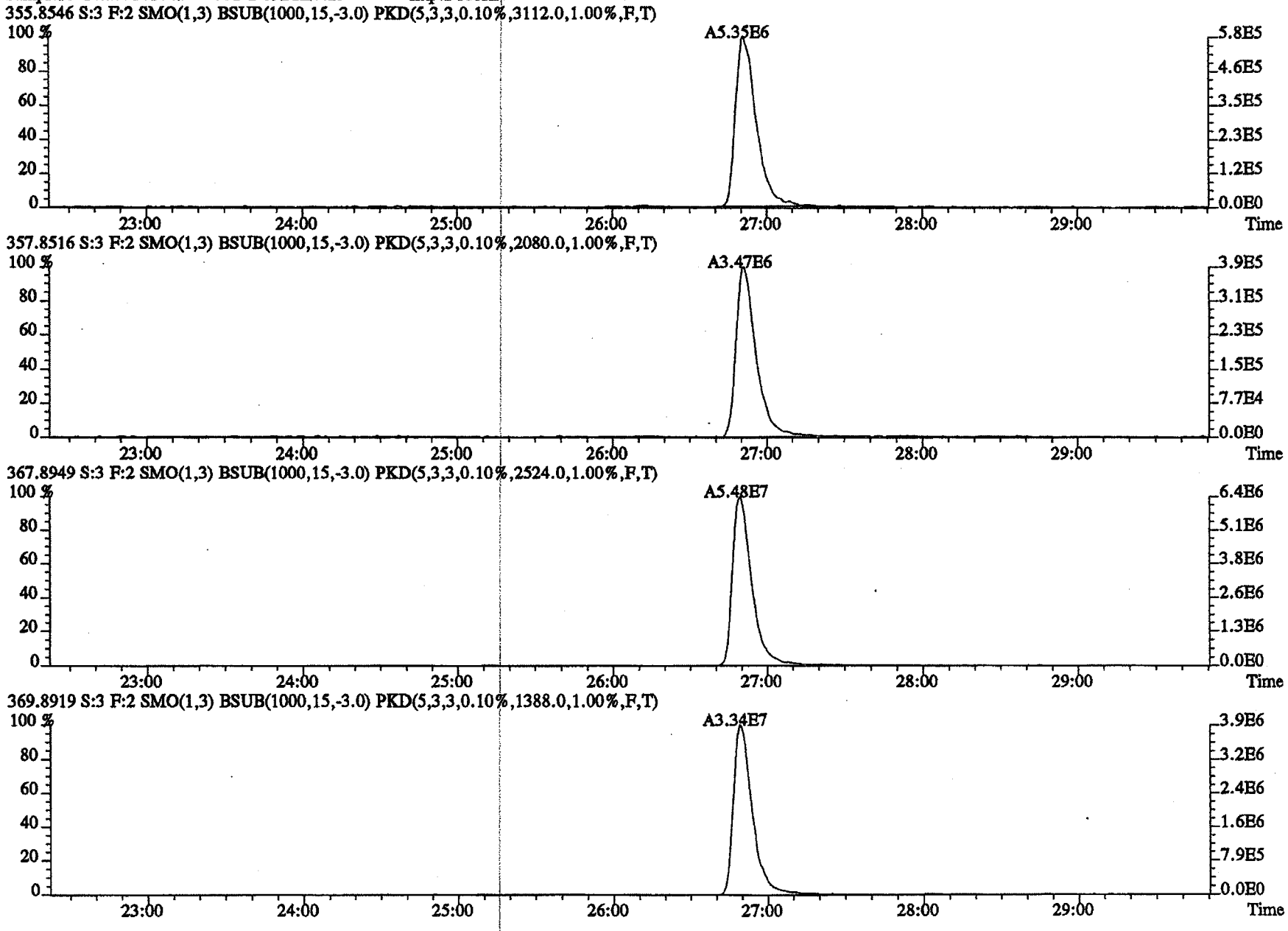
351.9000 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7164.0,1.00%,F,T)



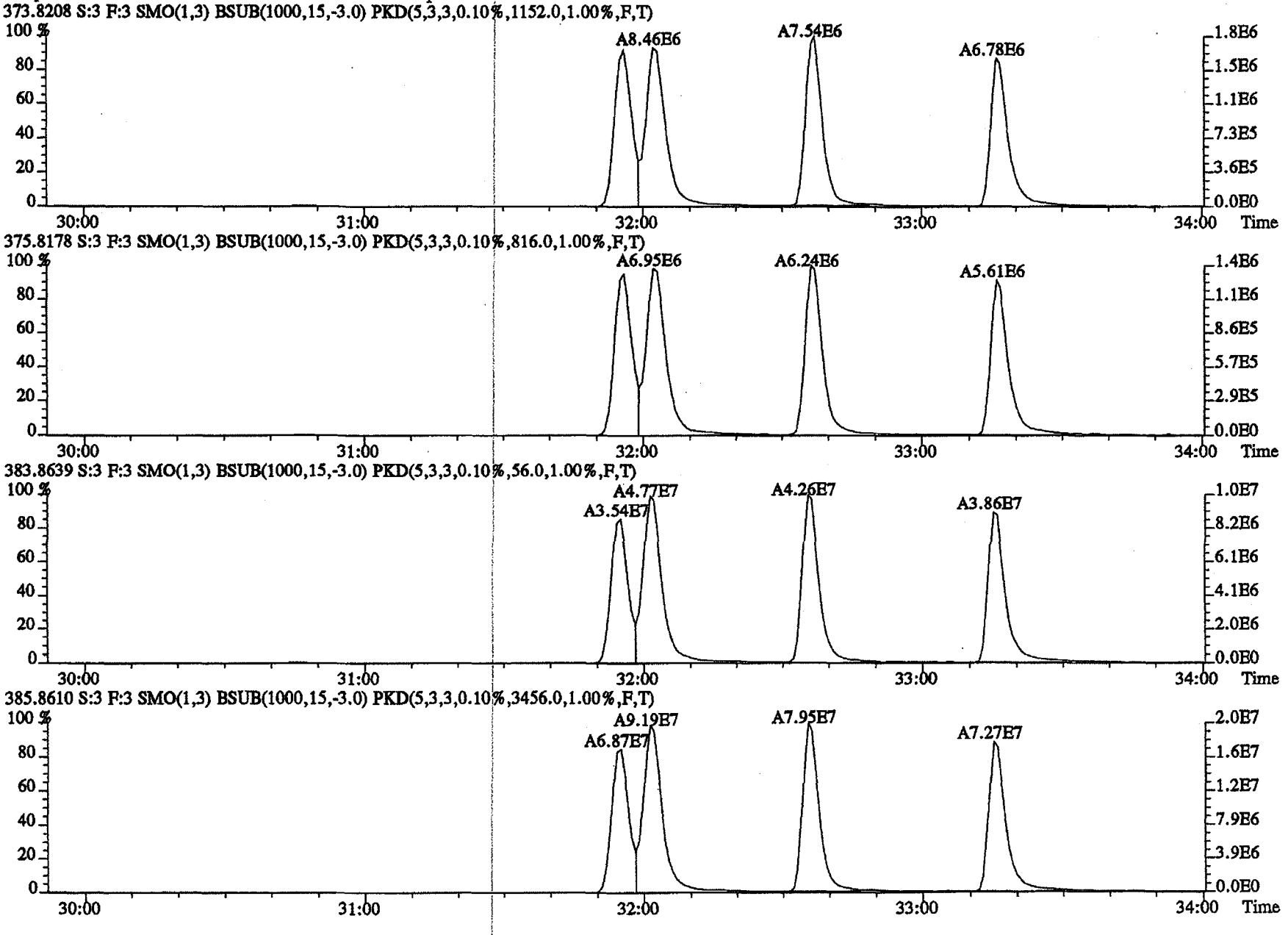
353.8970 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7460.0,1.00%,F,T)



File:04FE104D5 #1-596 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN

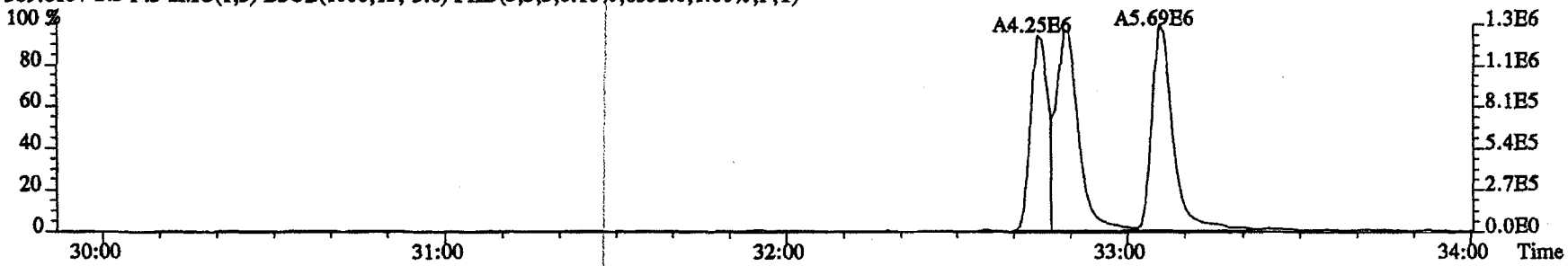


File:04FE104D5 #1-314 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN

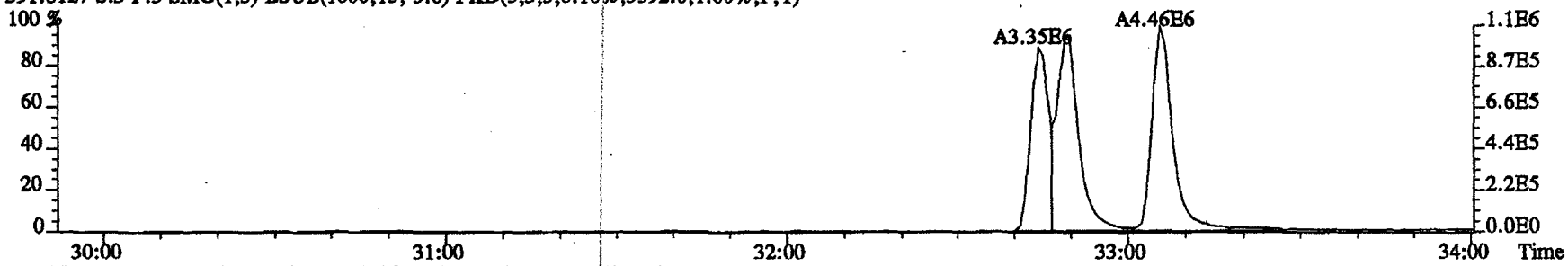


File:04FE104D5 #1-314 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN

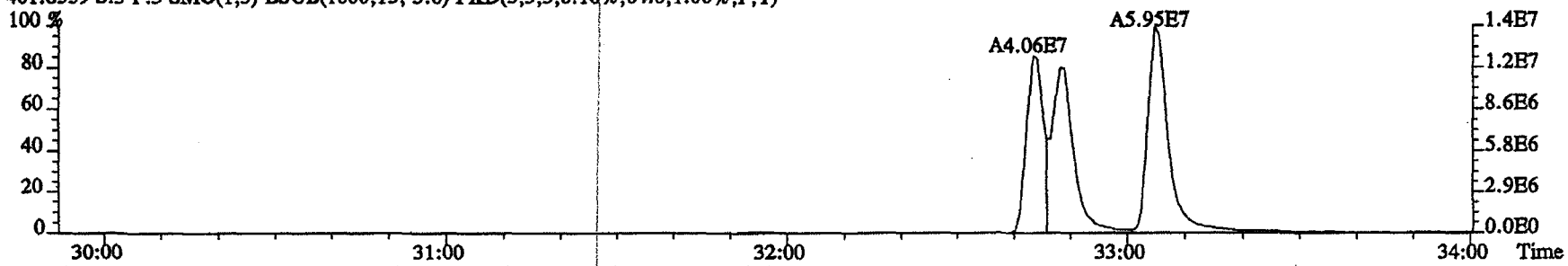
389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6532.0,1.00%,F,T)



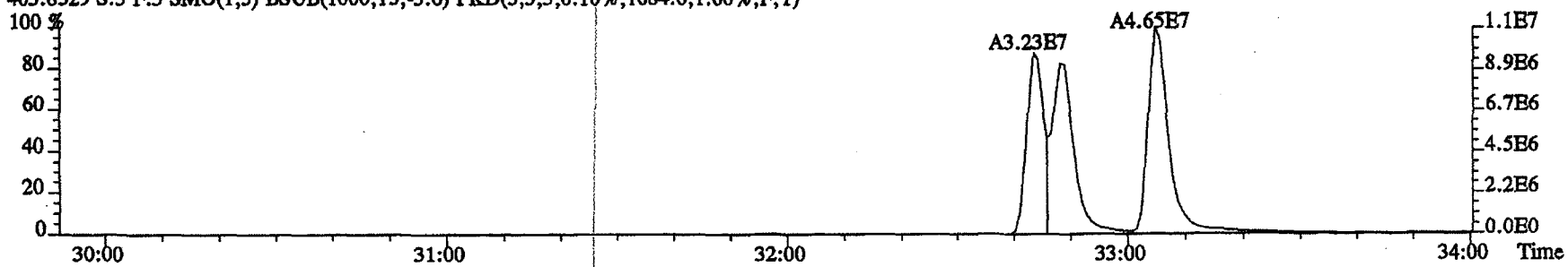
391.8127 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3592.0,1.00%,F,T)



401.8559 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T)

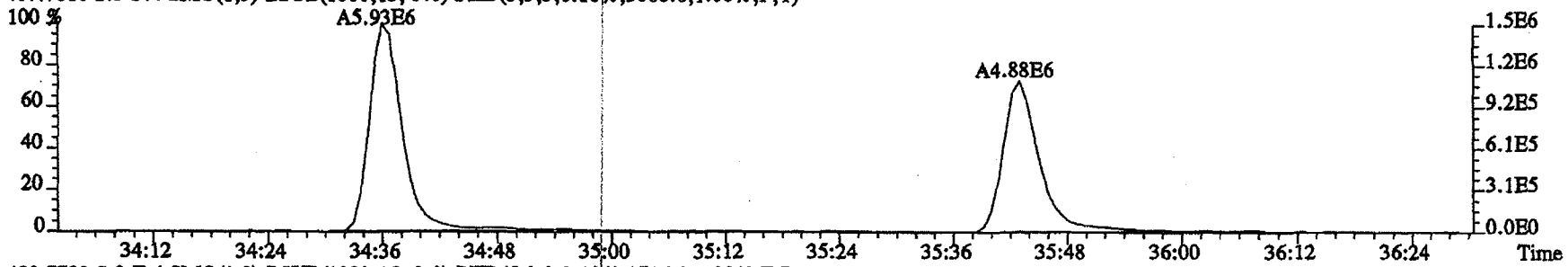


403.8529 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1684.0,1.00%,F,T)

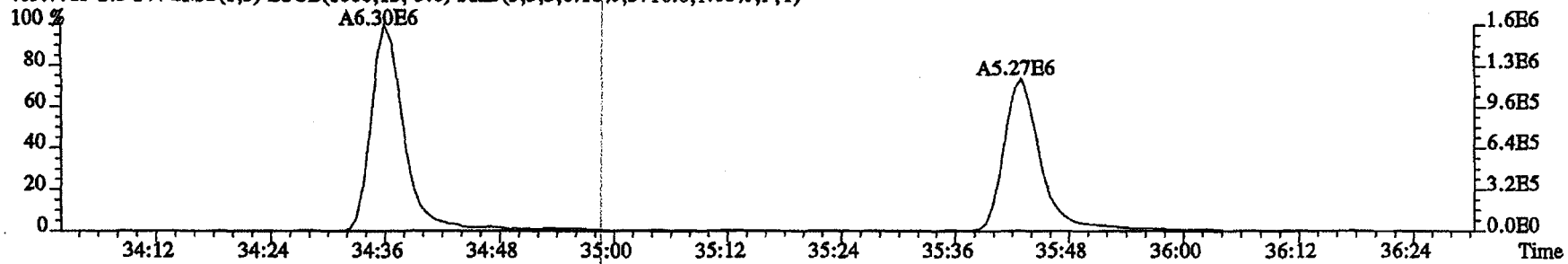


File:04FB104D5 #1-198 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN

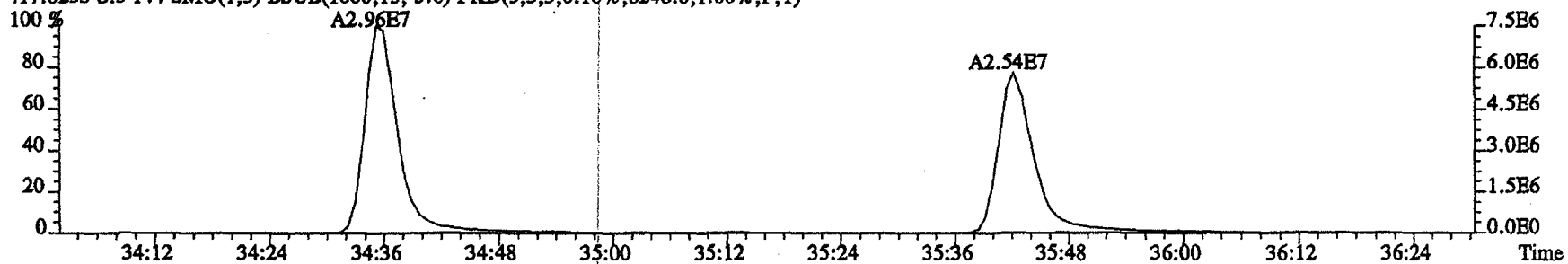
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3060.0,1.00%,F,T)



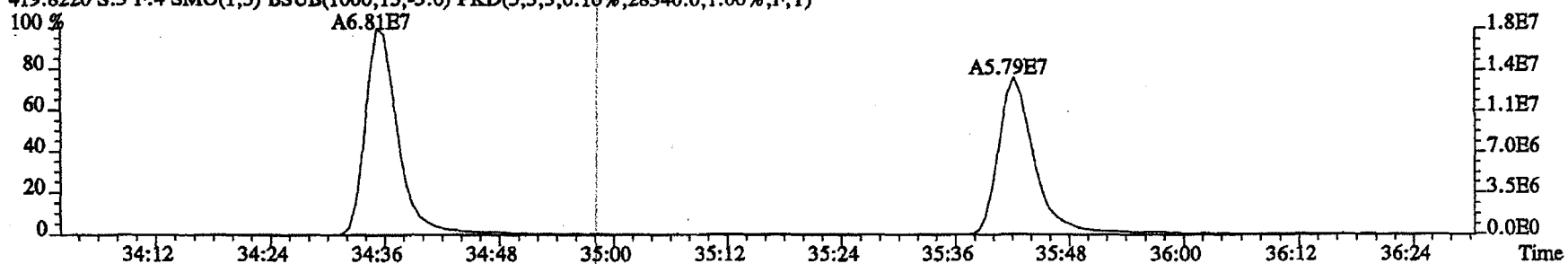
409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3716.0,1.00%,F,T)



417.8253 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6248.0,1.00%,F,T)

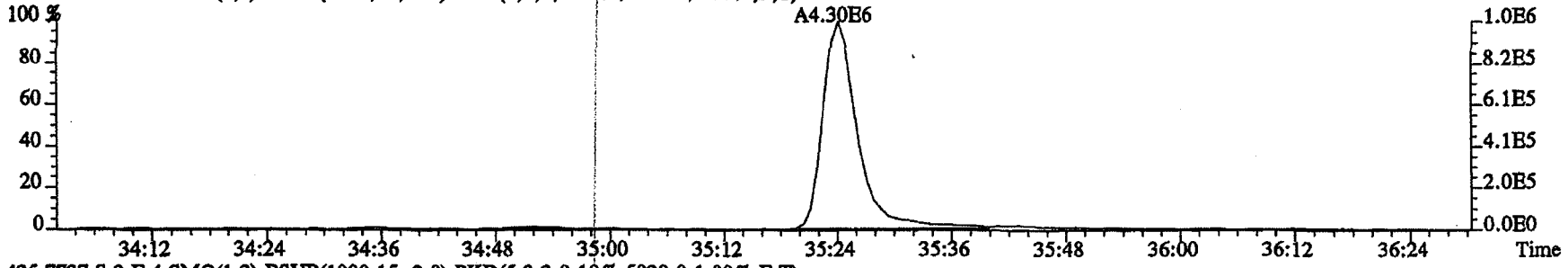


419.8220 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28340.0,1.00%,F,T)

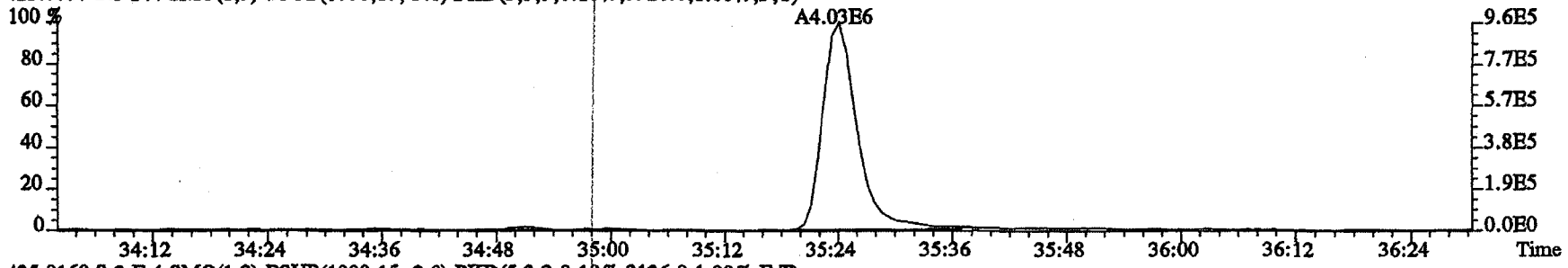


File:04FE104D5 #1-198 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN

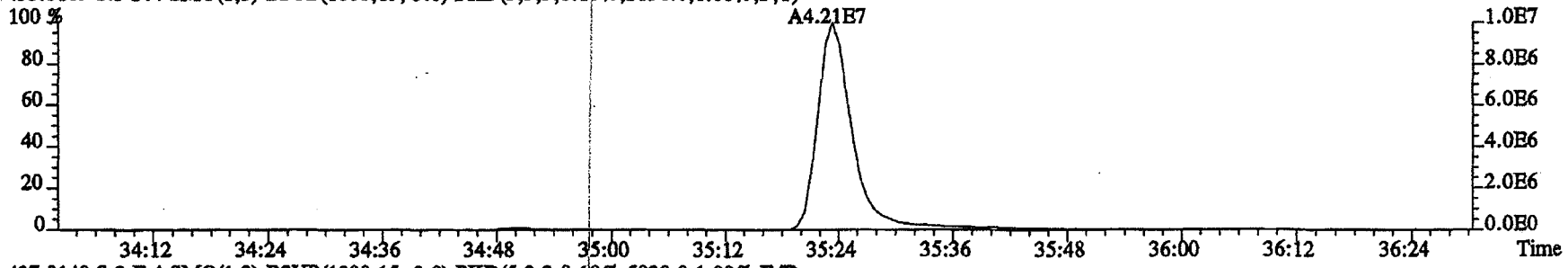
423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5584.0,1.00%,F,T)



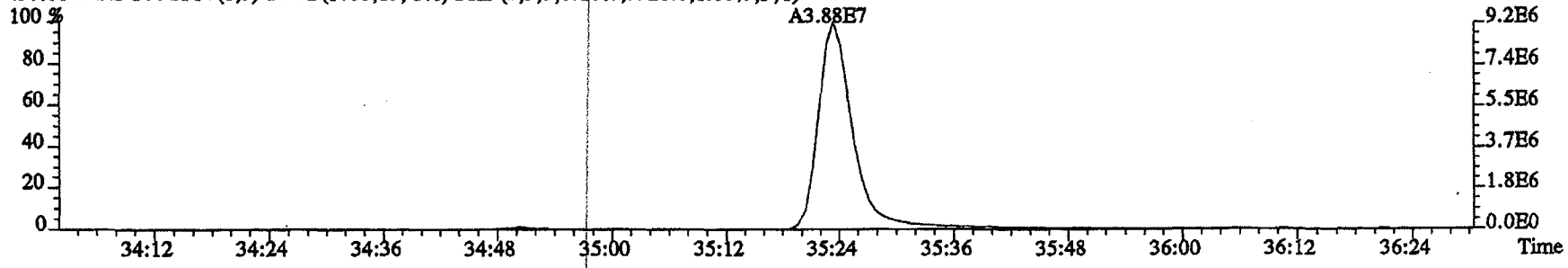
425.7737 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5920.0,1.00%,F,T)



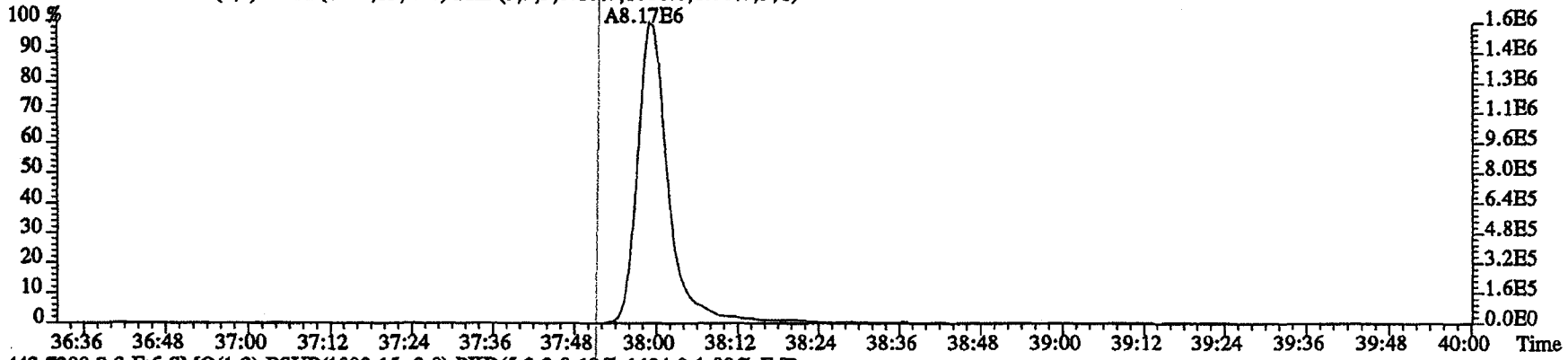
435.8169 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2136.0,1.00%,F,T)



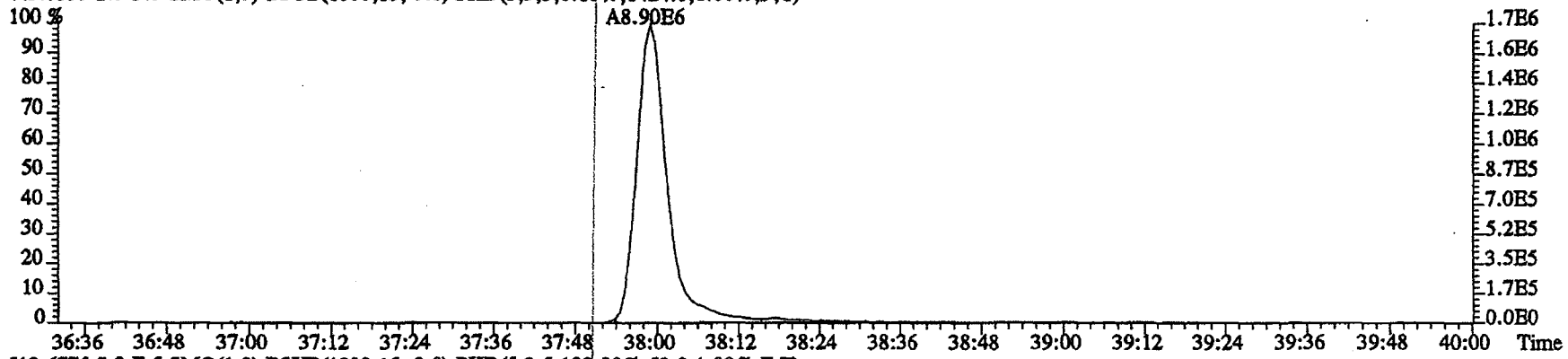
437.8140 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5928.0,1.00%,F,T)



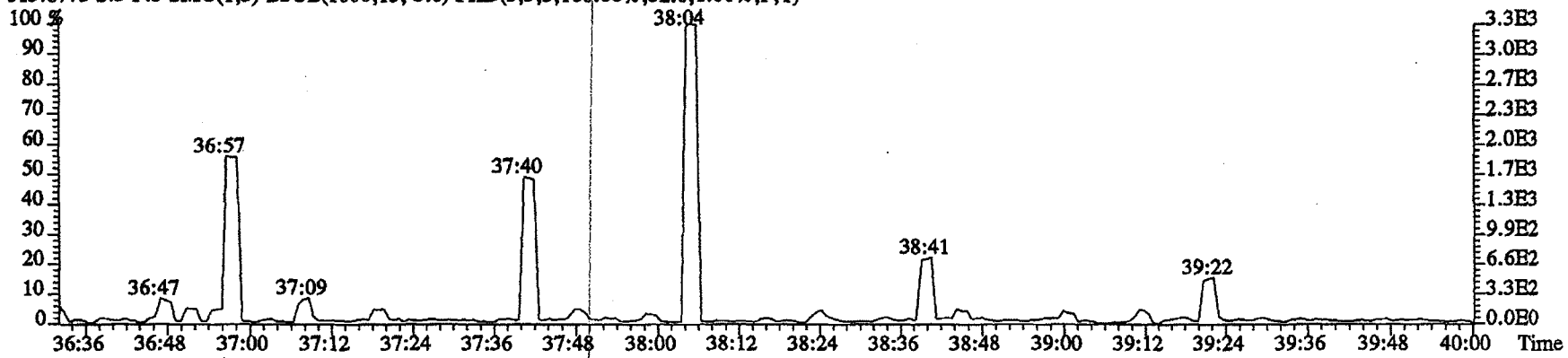
File:04FB104D5 #1-281 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN
441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1068.0,1.00%,F,T)



443.7399 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1424.0,1.00%,F,T)

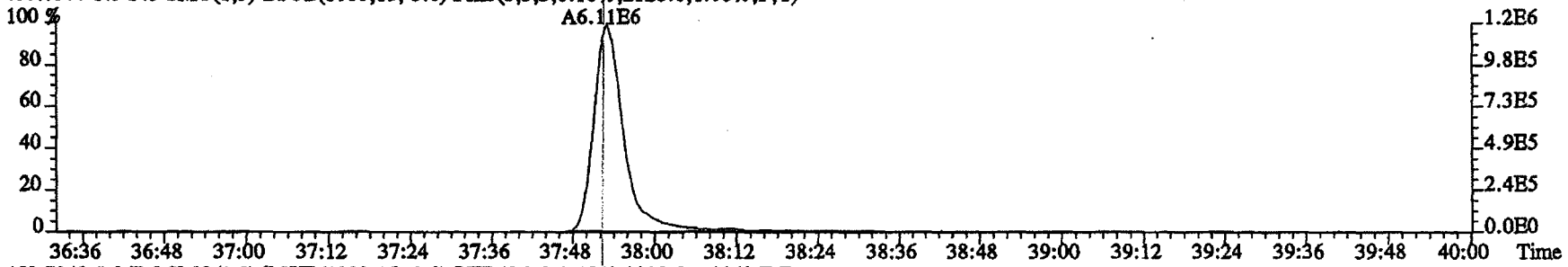


513.6775 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,52.0,1.00%,F,T)

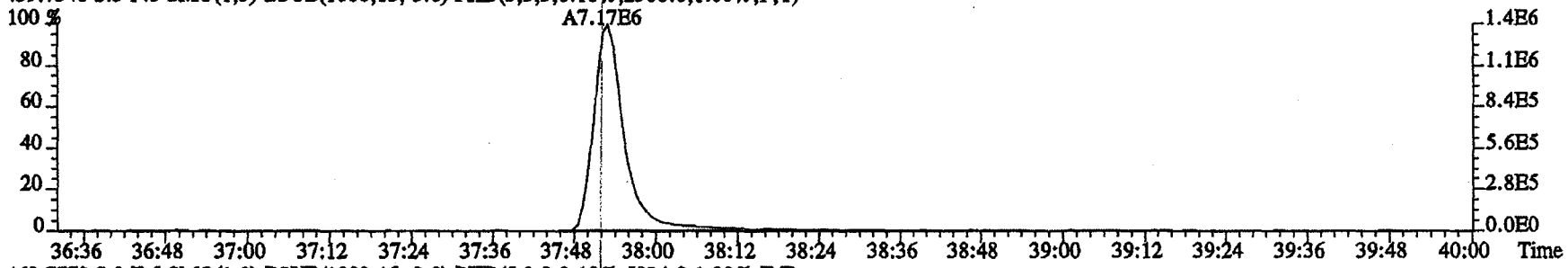


File:04FB104D5 #1-281 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN

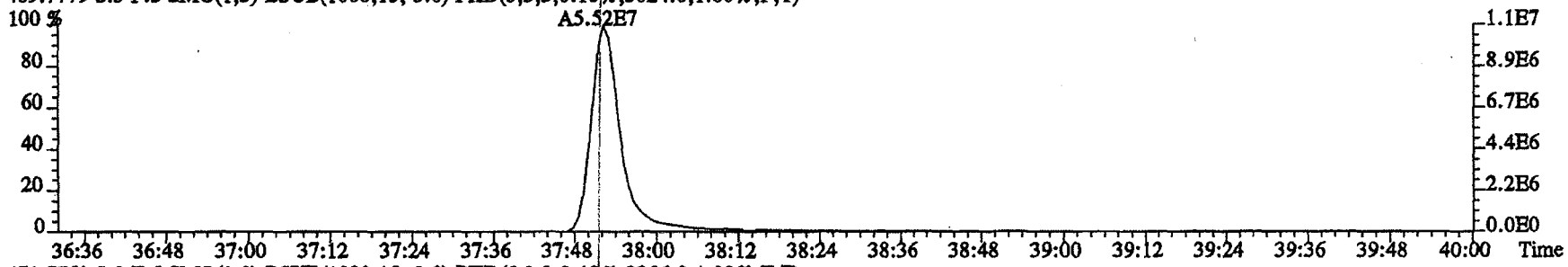
457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2128.0,1.00%,F,T)



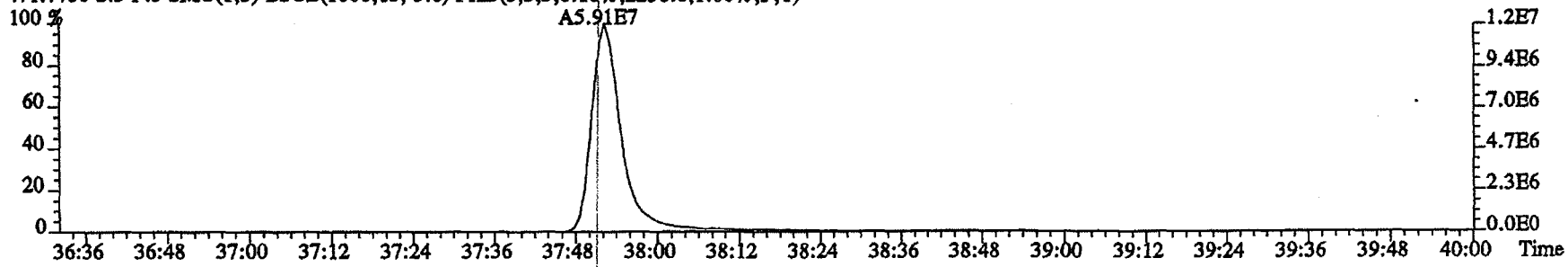
459.7348 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2388.0,1.00%,F,T)



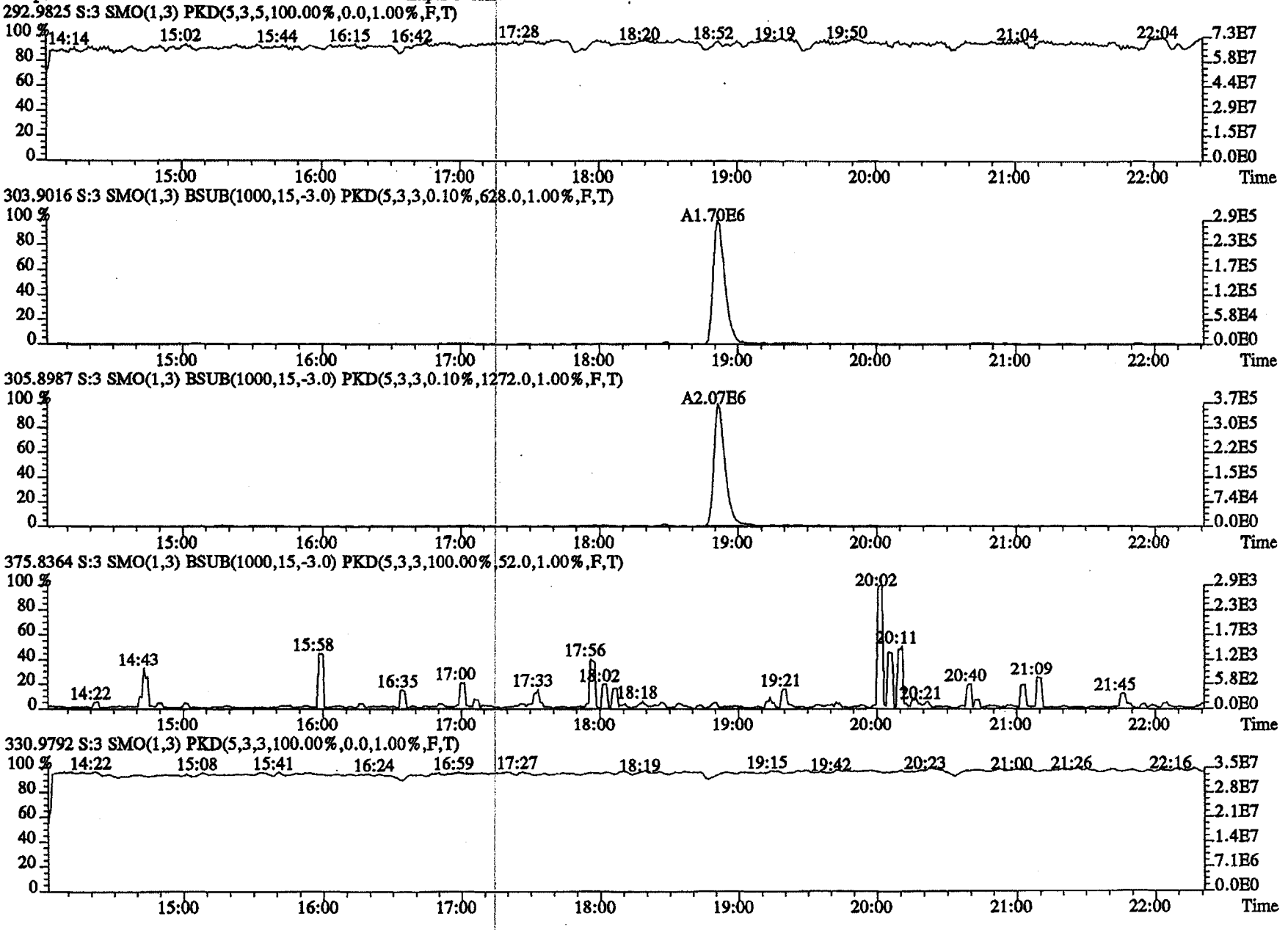
469.7779 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5024.0,1.00%,F,T)



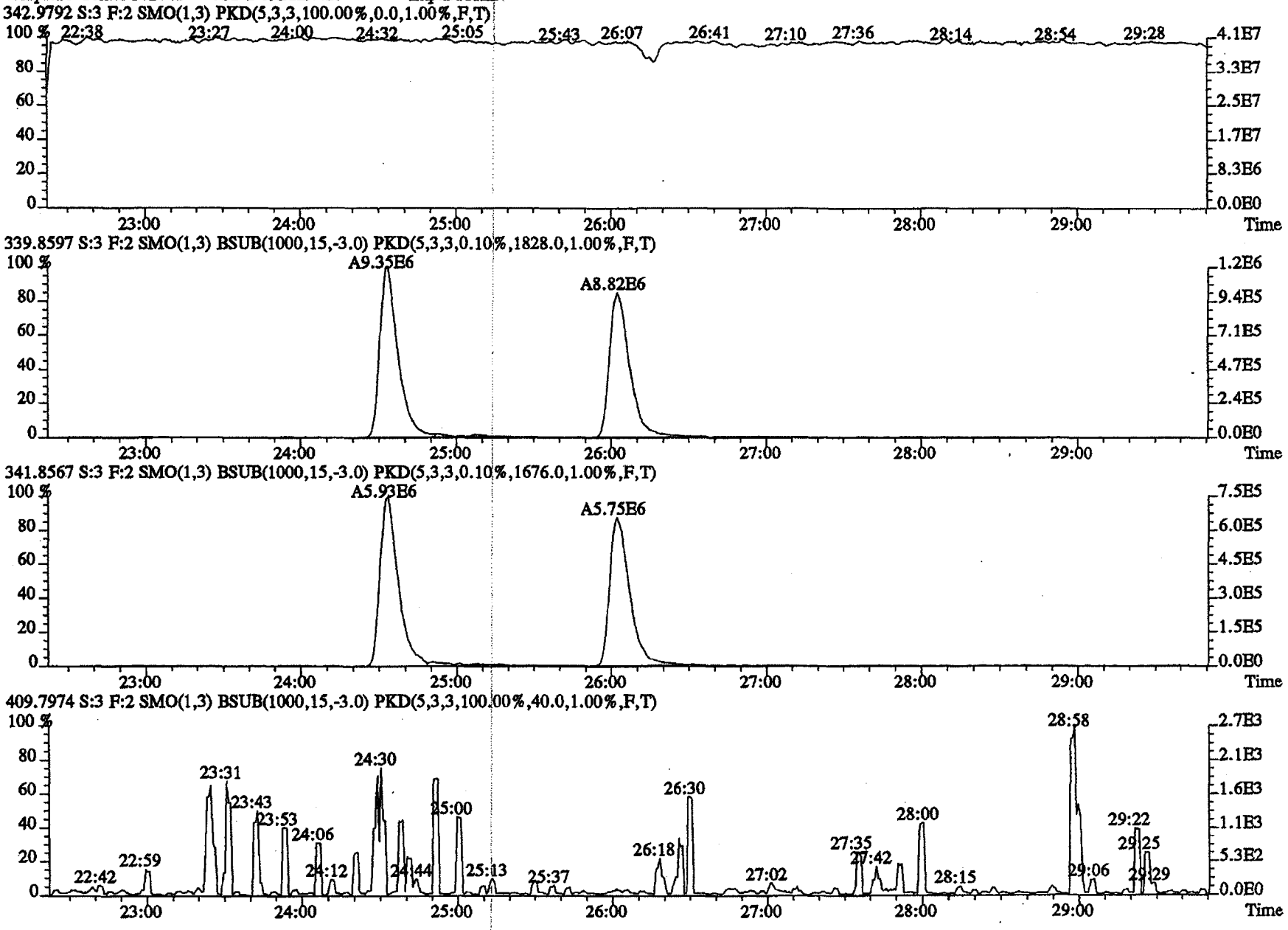
471.7750 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2256.0,1.00%,F,T)



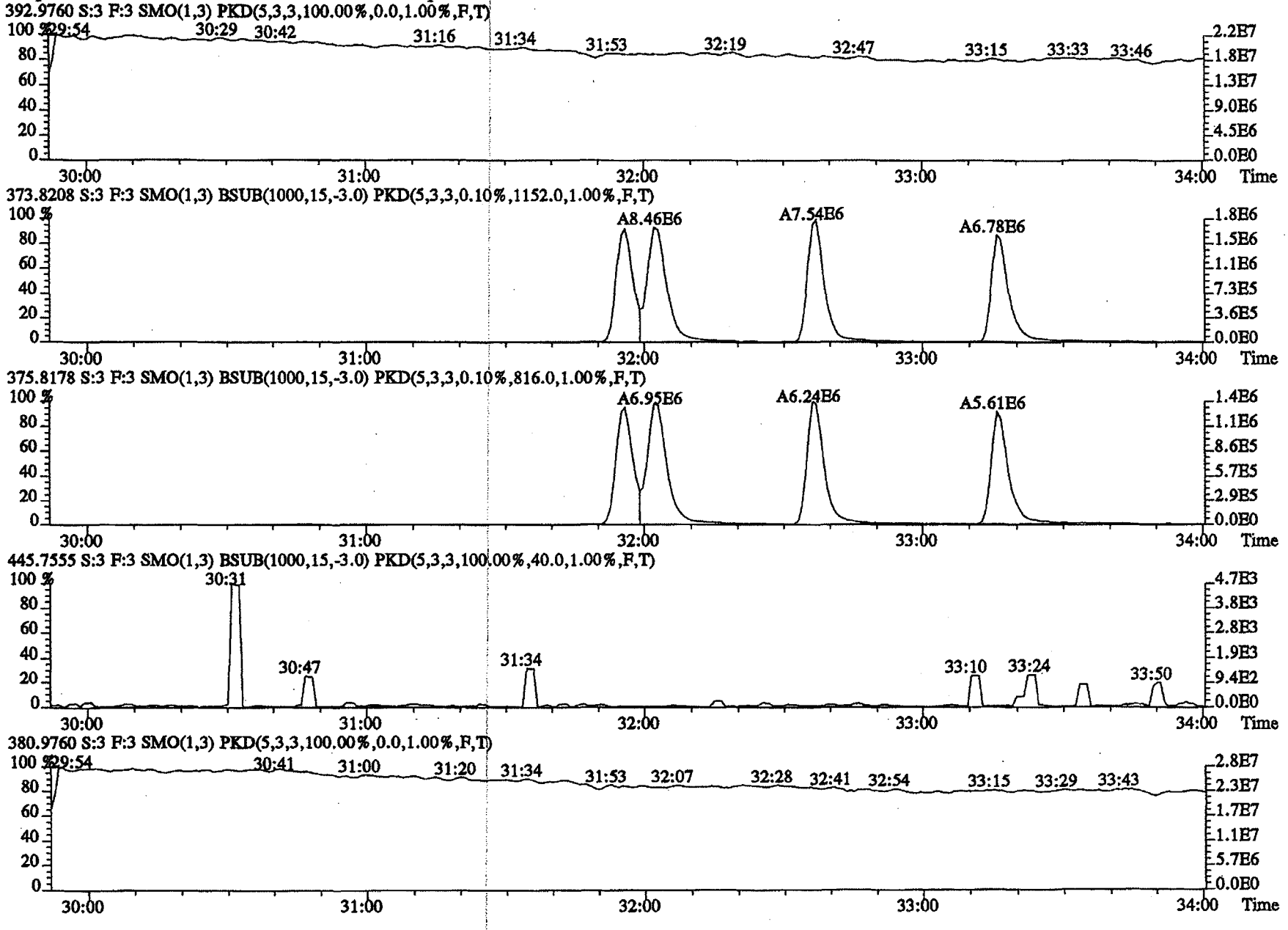
File:04FE104D5 #1-578 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN



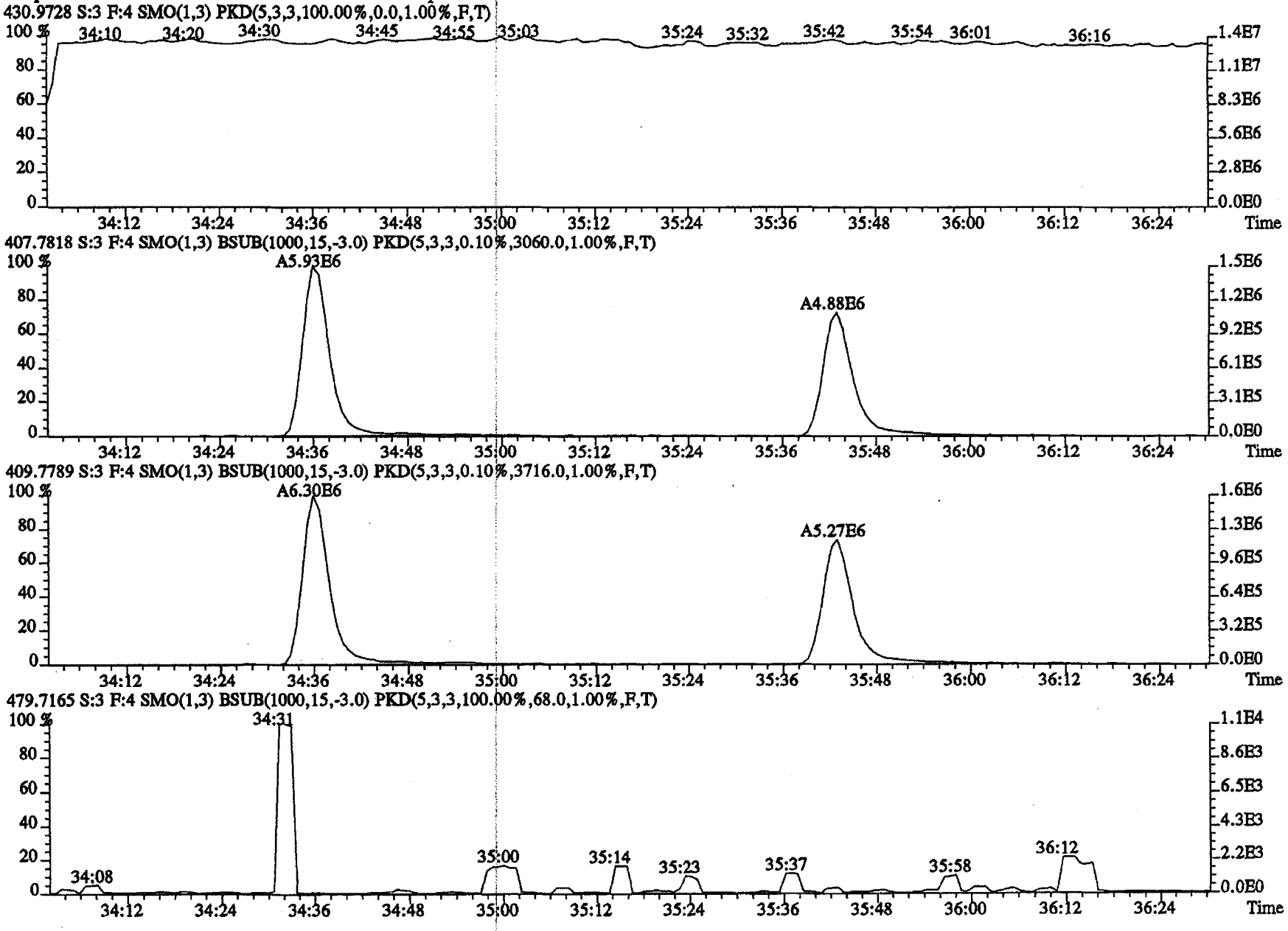
File:04FE104D5 #1-596 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN



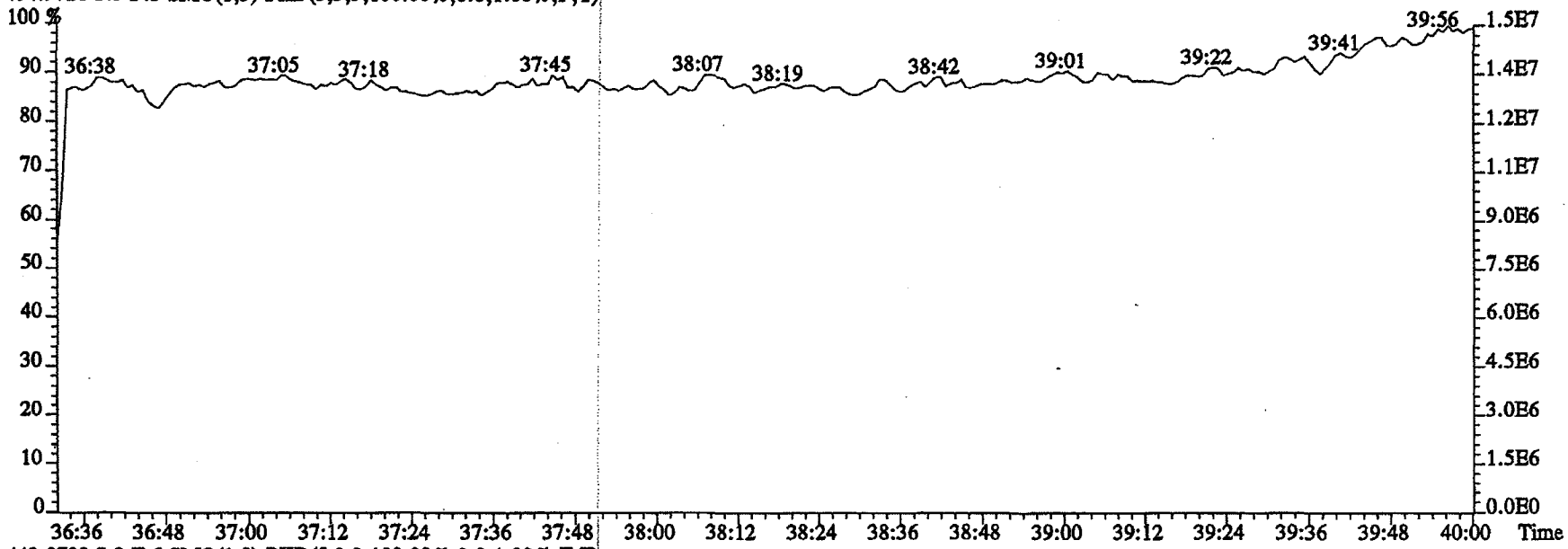
File:04FB104D5 #1-314 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN



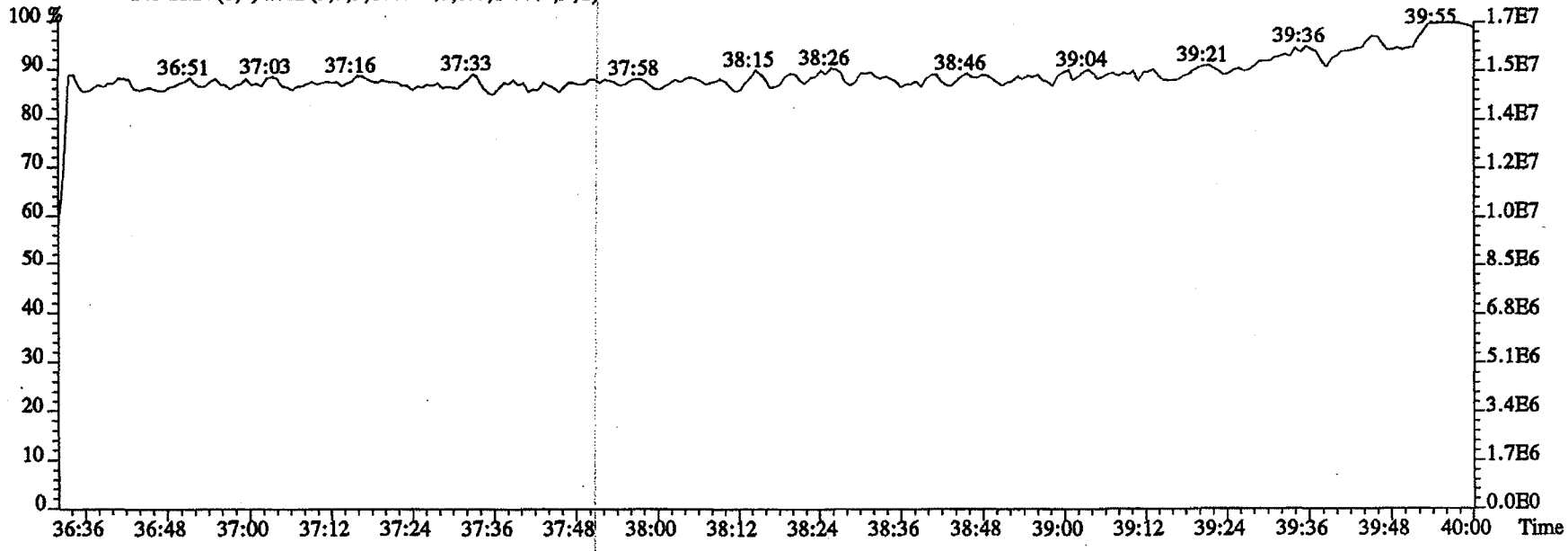
File:04FE104D5 #1-198 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN



File:04FE104D5 #1-281 Acq: 4-FEB-2010 11:10:23 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:ST0204B :CS-2 09DXN423 Exp:DIOXIN
454.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

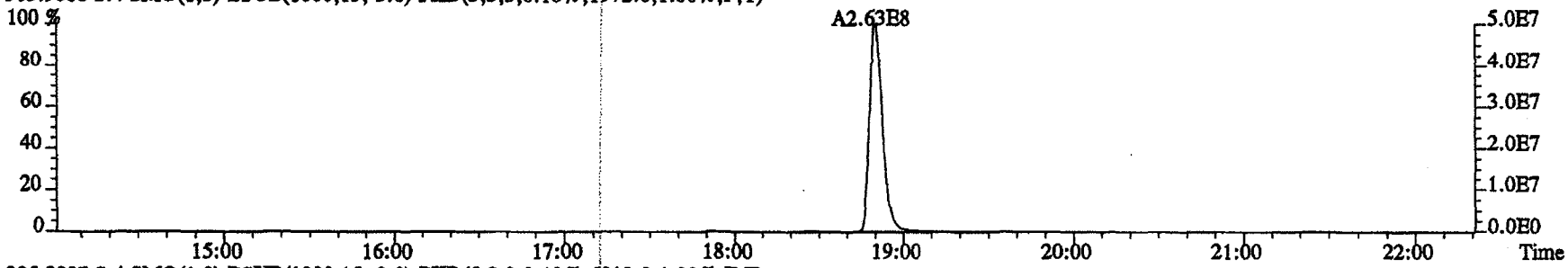


442.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

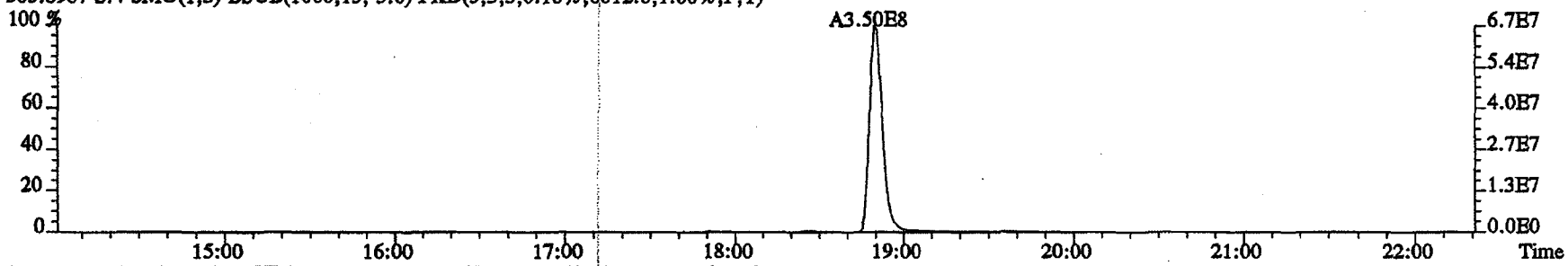


File:04FB104D5 #1-578 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN

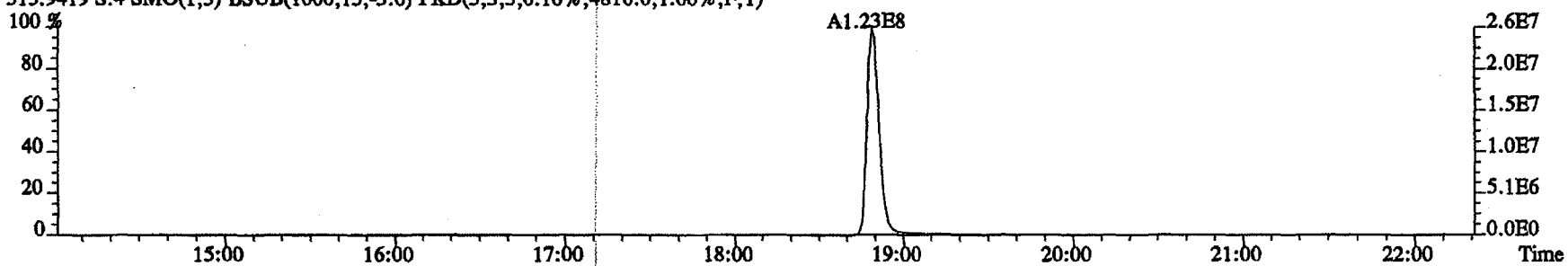
303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1972.0,1.00%,F,T)



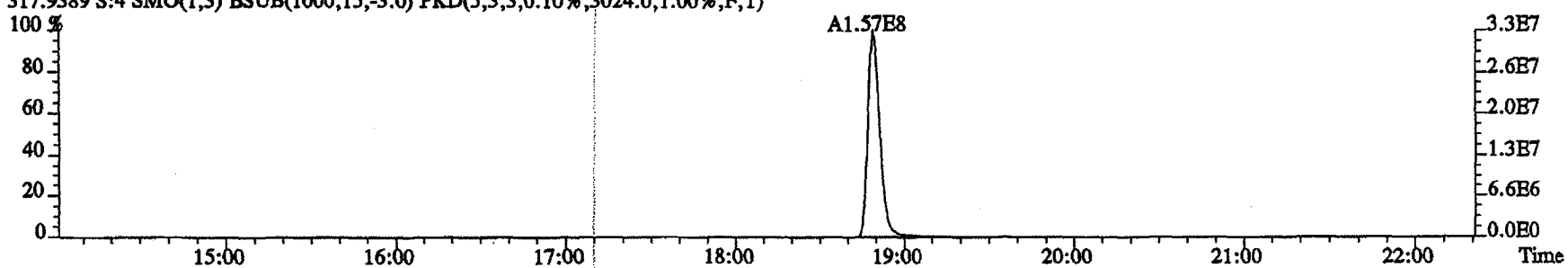
305.8987 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6012.0,1.00%,F,T)



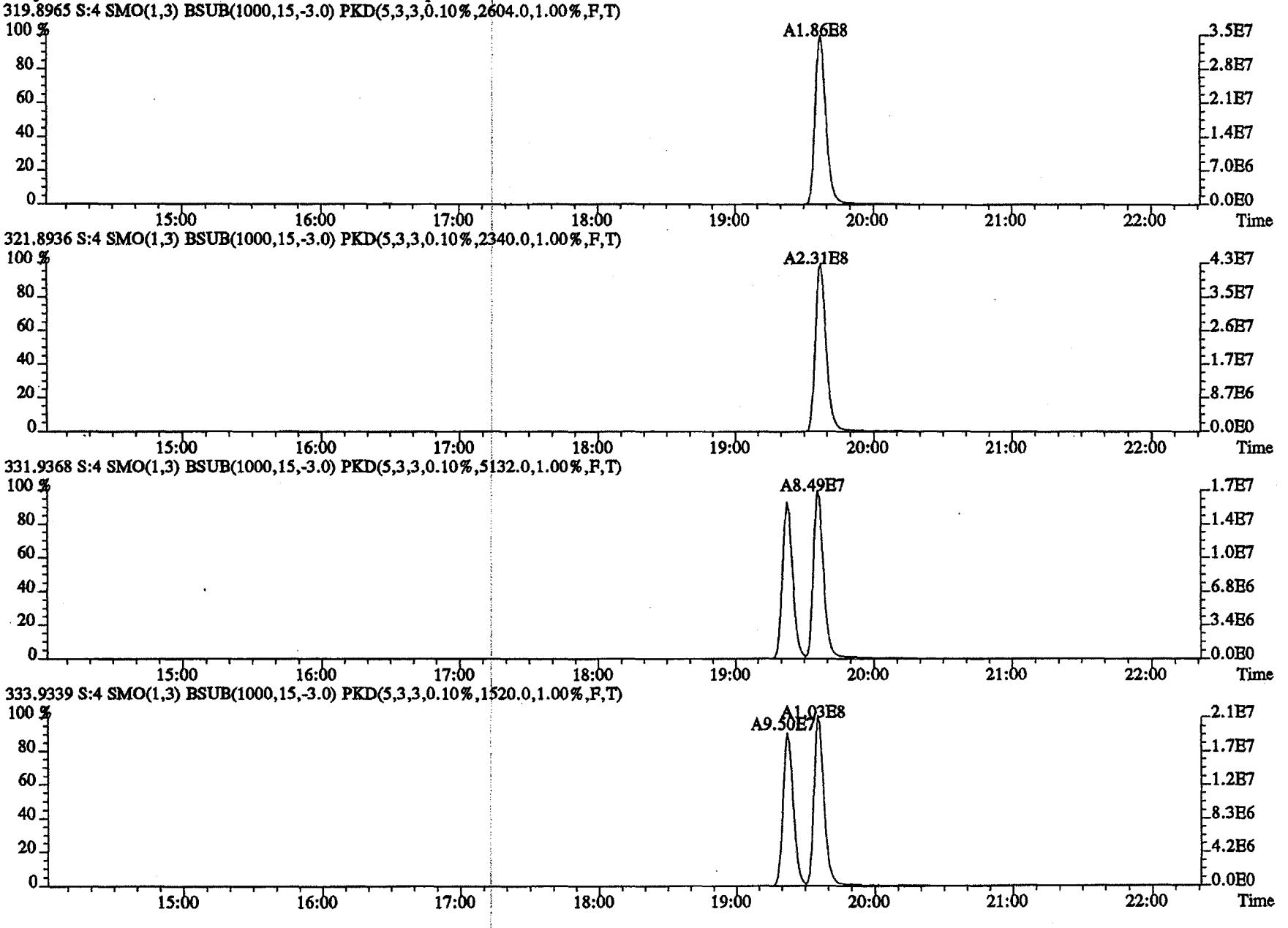
315.9419 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4816.0,1.00%,F,T)



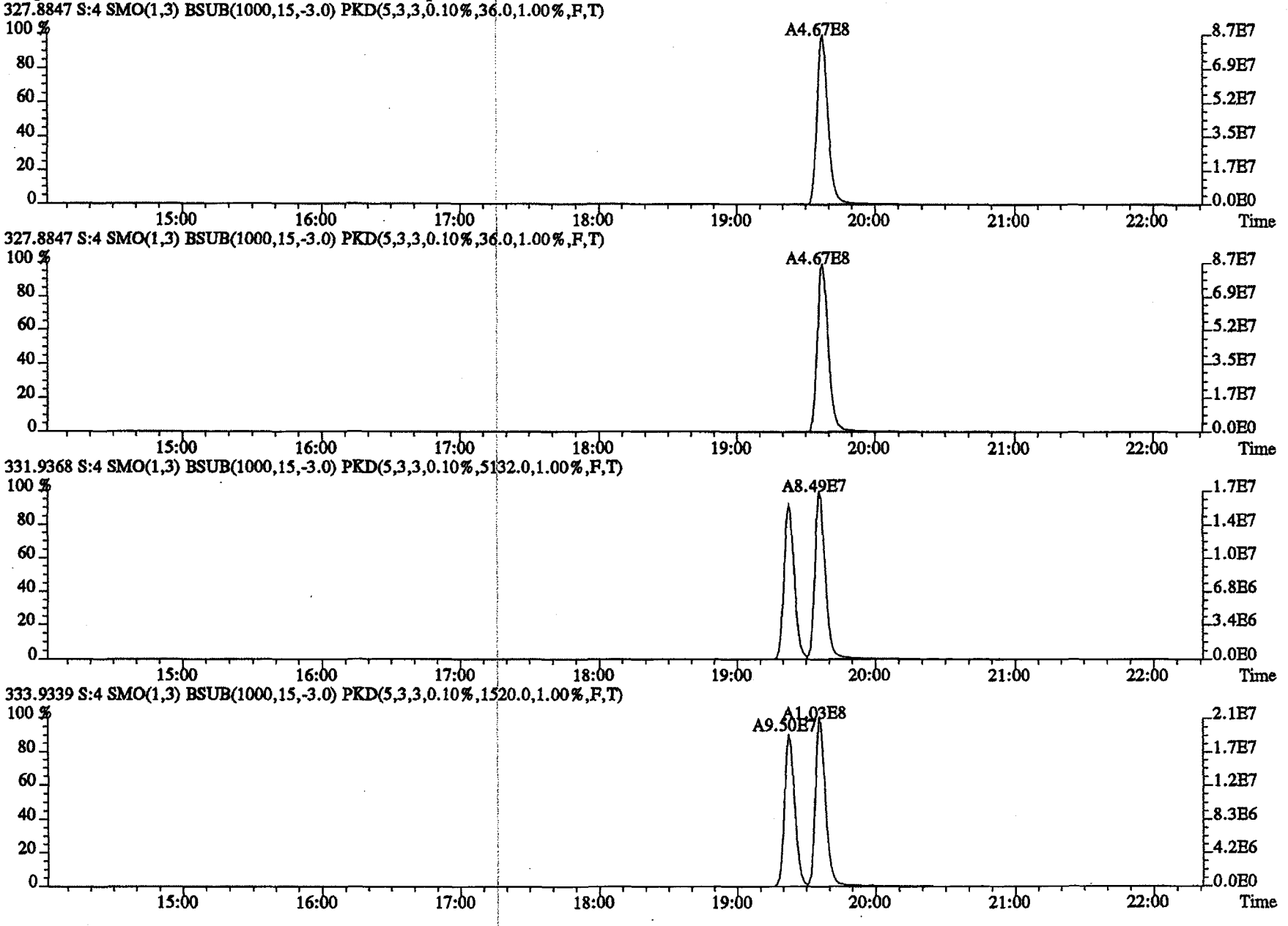
317.9389 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3024.0,1.00%,F,T)



File:04FE104D5 #1-578 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN

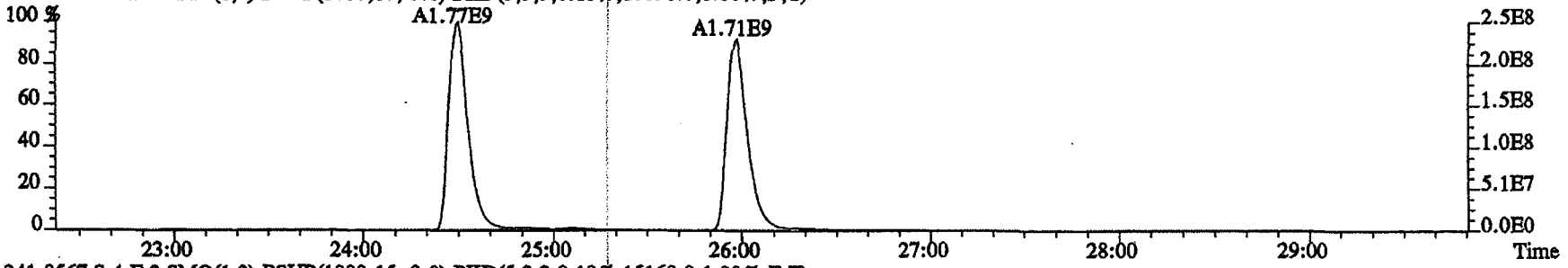


File:04FB104D5 #1-578 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN

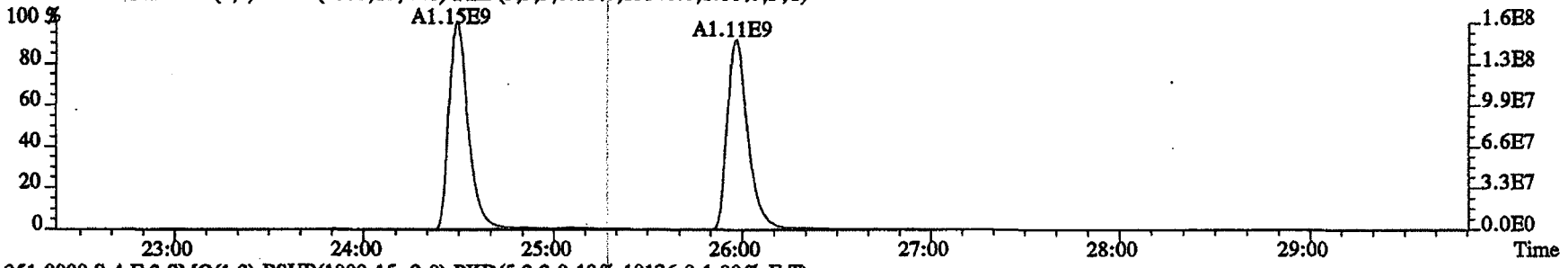


File:04FE104D5 #1-596 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN

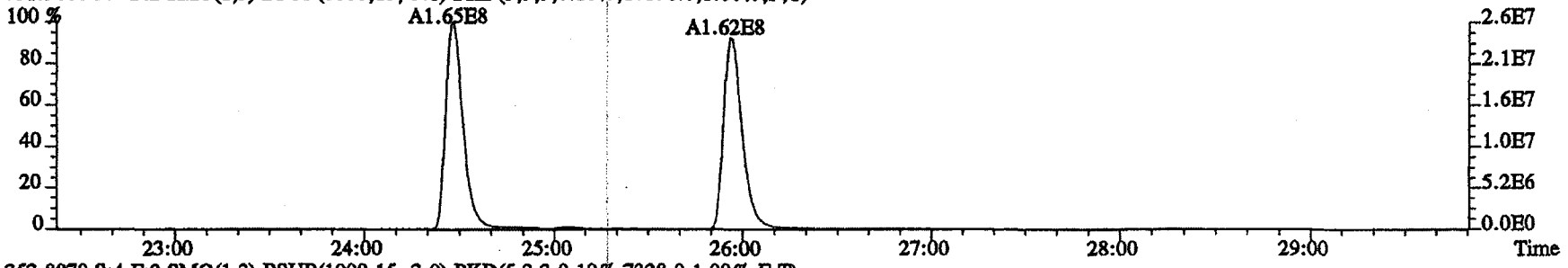
339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18636.0,1.00%,F,T)



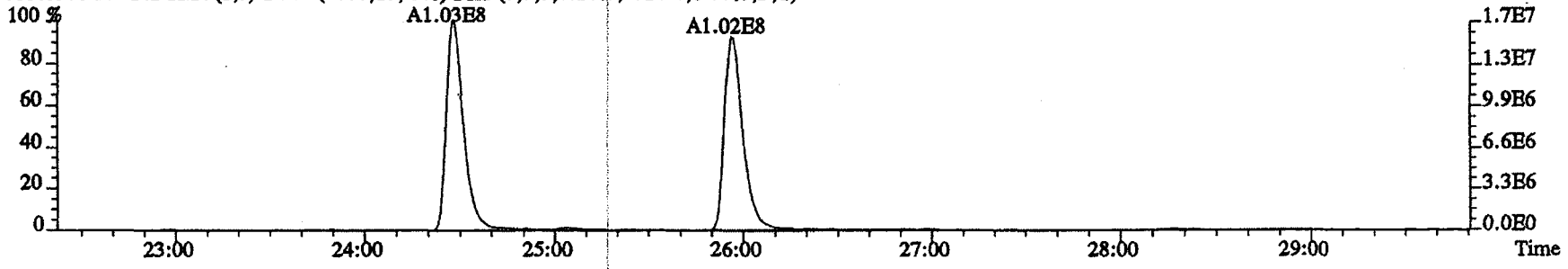
341.8567 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15168.0,1.00%,F,T)



351.9000 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10136.0,1.00%,F,T)

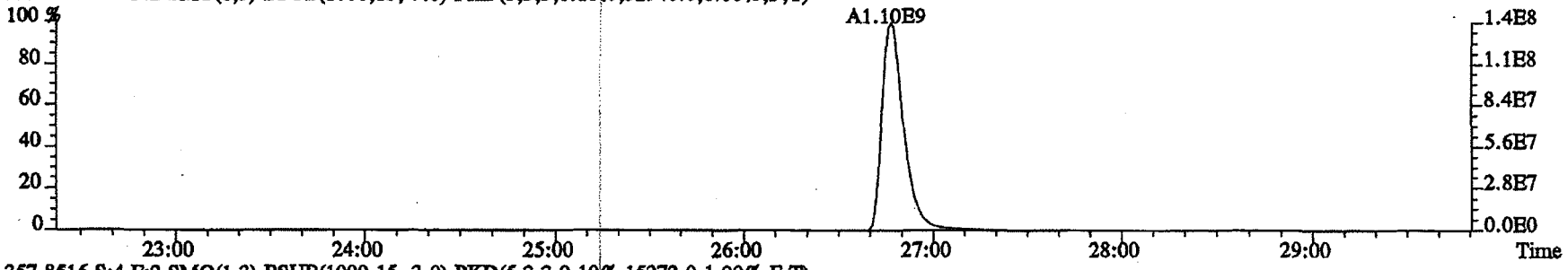


353.8970 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7328.0,1.00%,F,T)

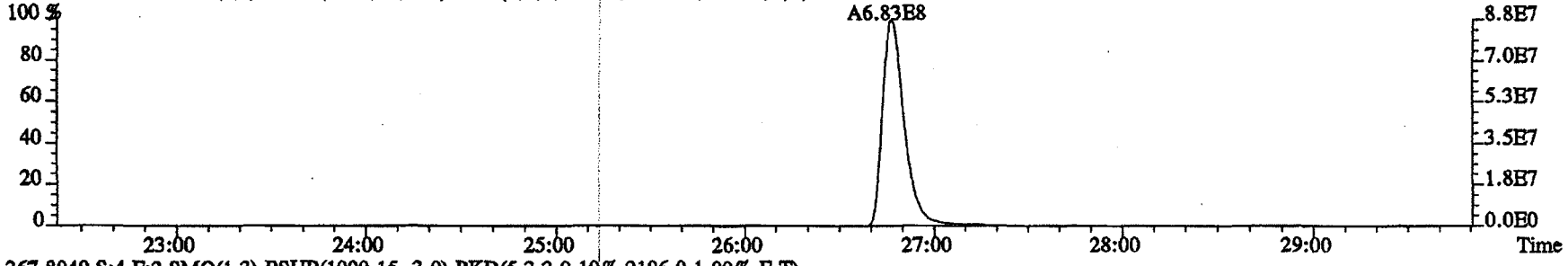


File:04FB104D5 #1-596 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN

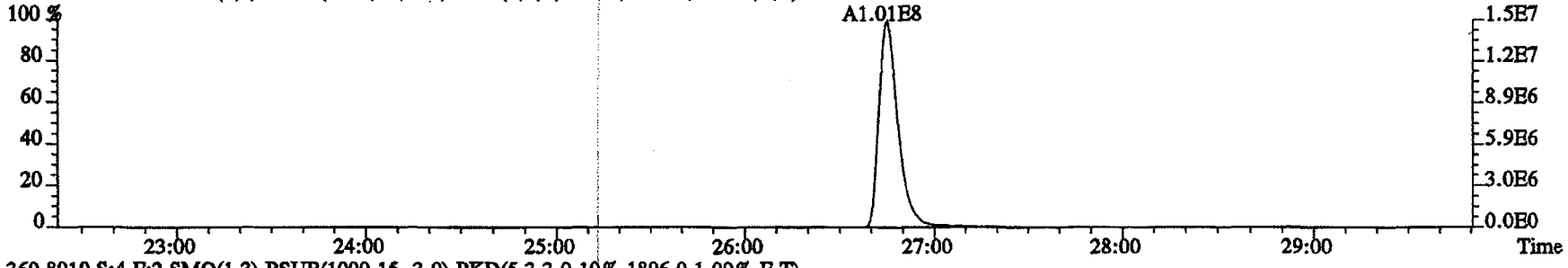
355.8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32940.0,1.00%,F,T)



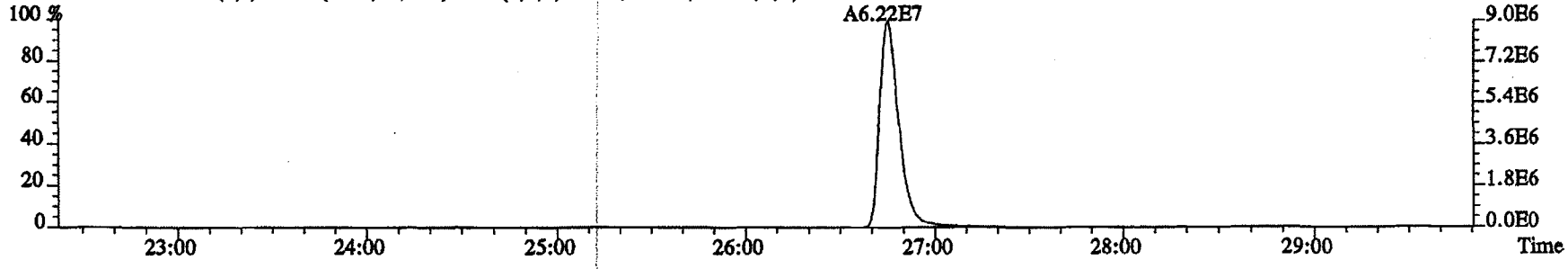
357.8516 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15272.0,1.00%,F,T)



367.8949 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2196.0,1.00%,F,T)

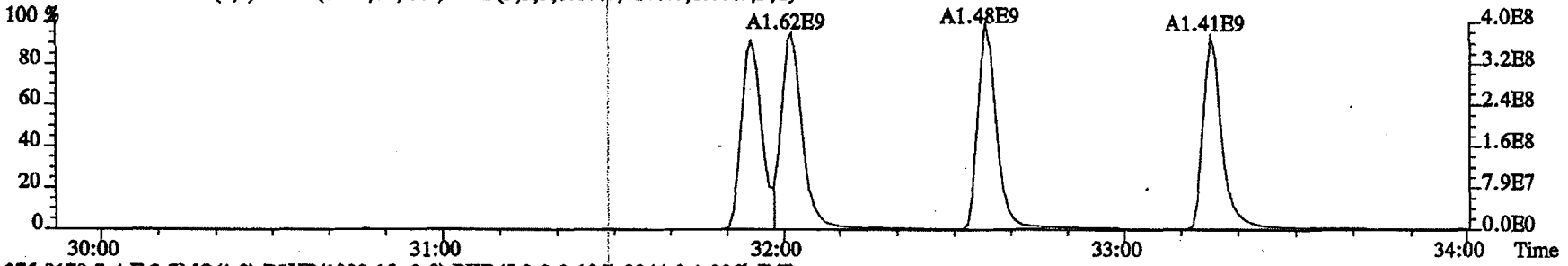


369.8919 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1896.0,1.00%,F,T)

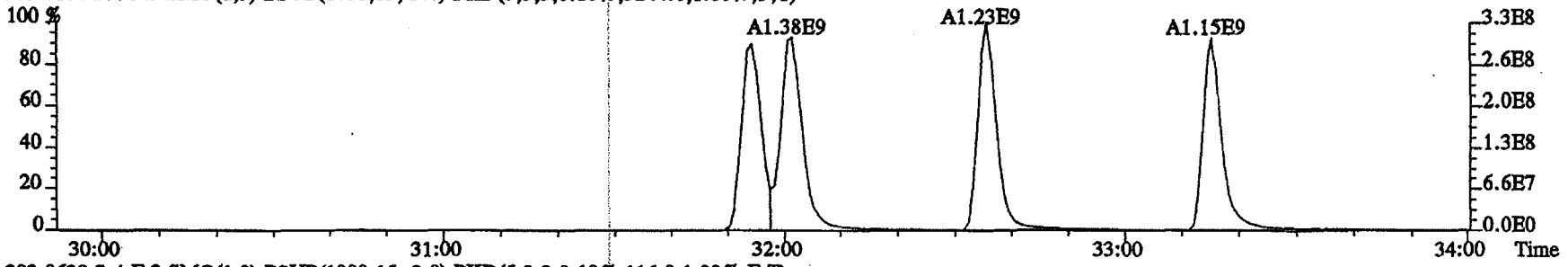


File:04FE104D5 #1-314 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN

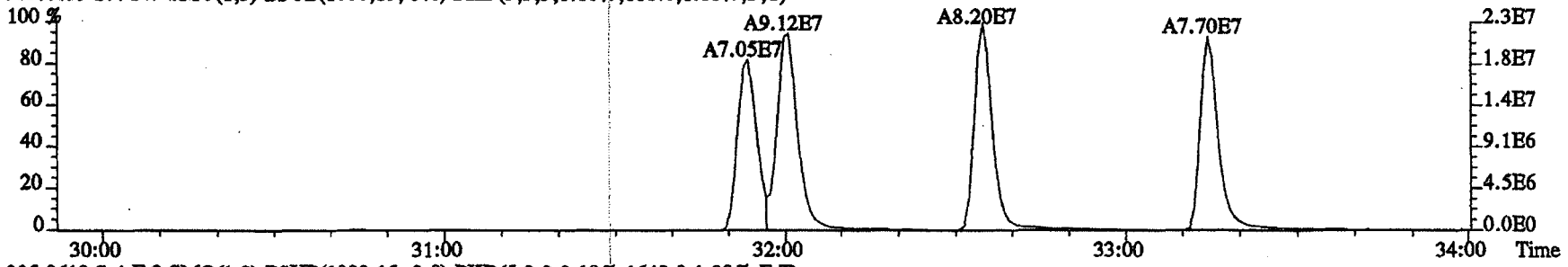
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4260.0,1.00%,F,T)



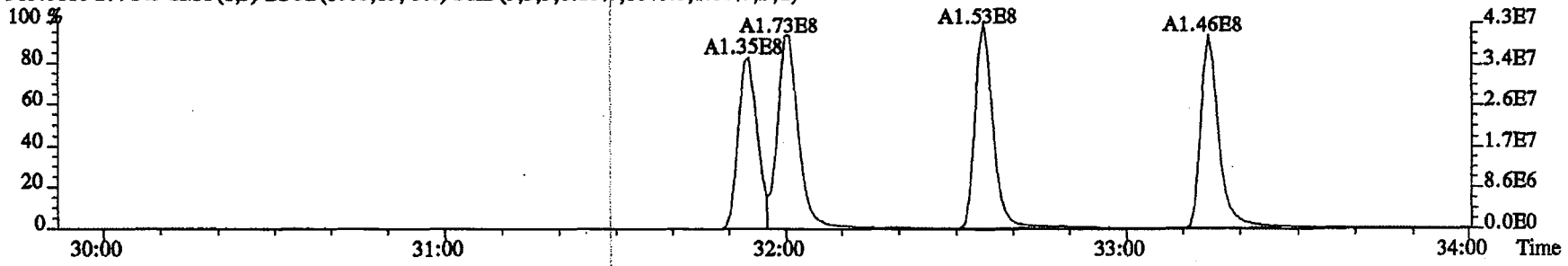
375.8178 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3244.0,1.00%,F,T)



383.8639 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,116.0,1.00%,F,T)

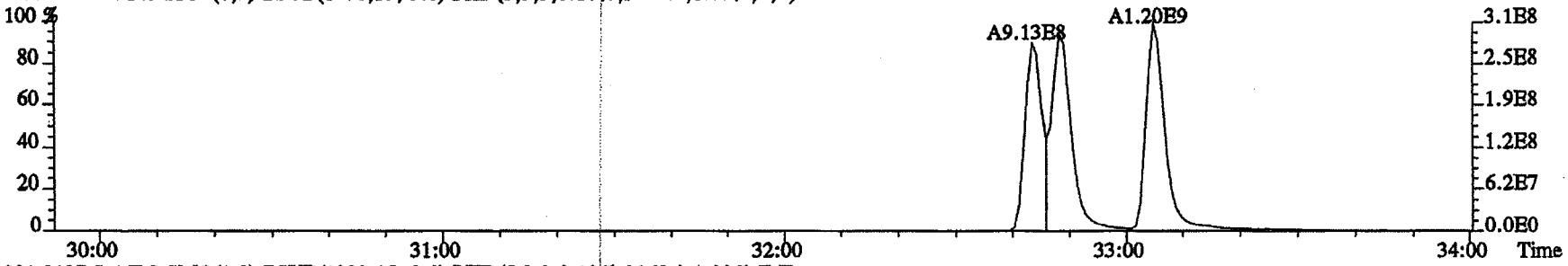


385.8610 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1648.0,1.00%,F,T)

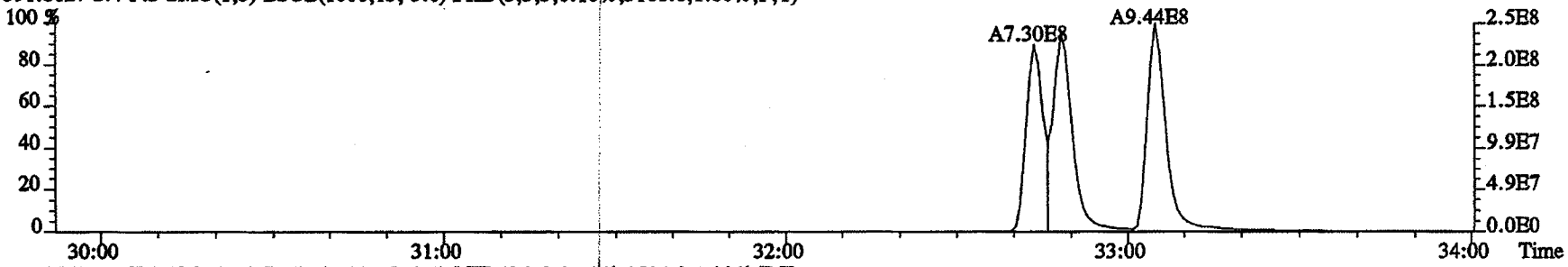


File:04FB104D5 #1-314 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN

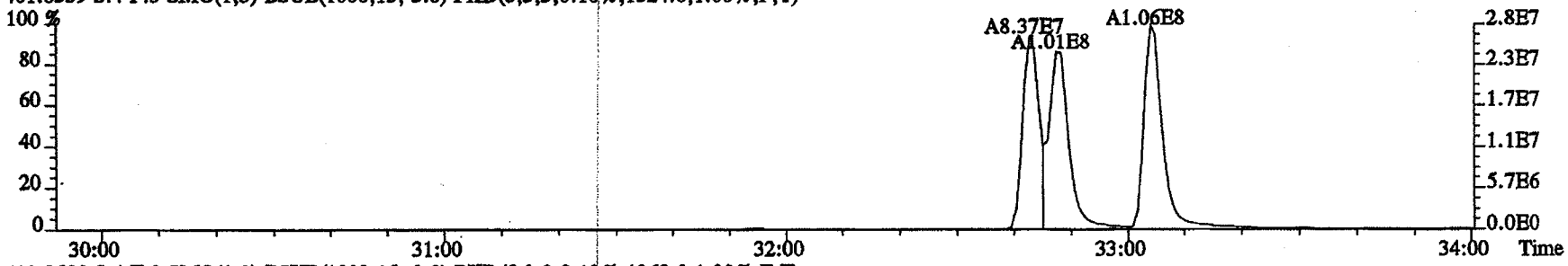
389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2768.0,1.00%,F,T)



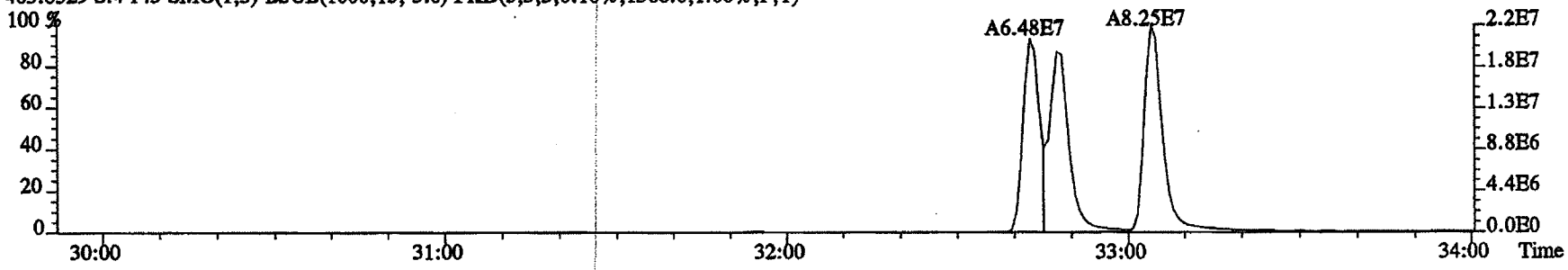
391.8127 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3168.0,1.00%,F,T)



401.8559 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1524.0,1.00%,F,T)

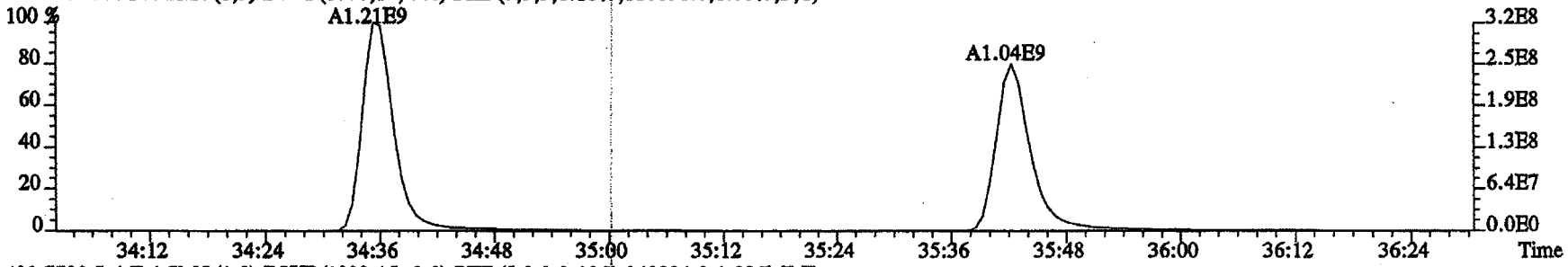


403.8529 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1368.0,1.00%,F,T)

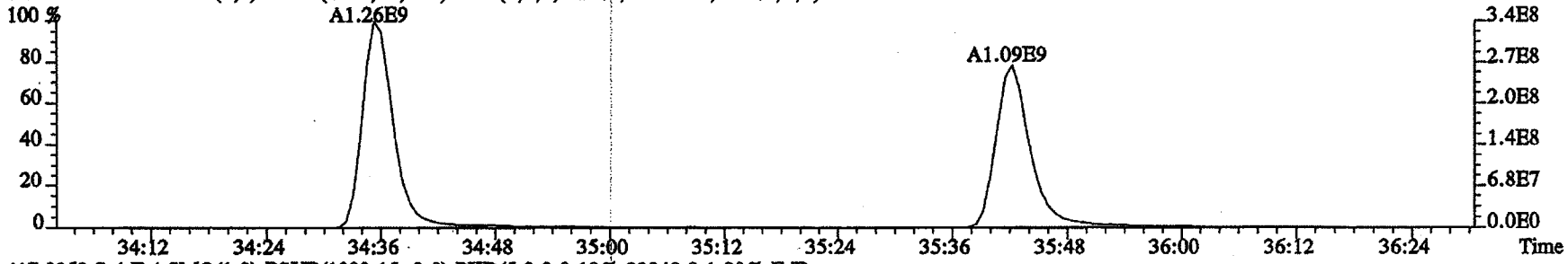


File:04FB104D5 #1-198 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN

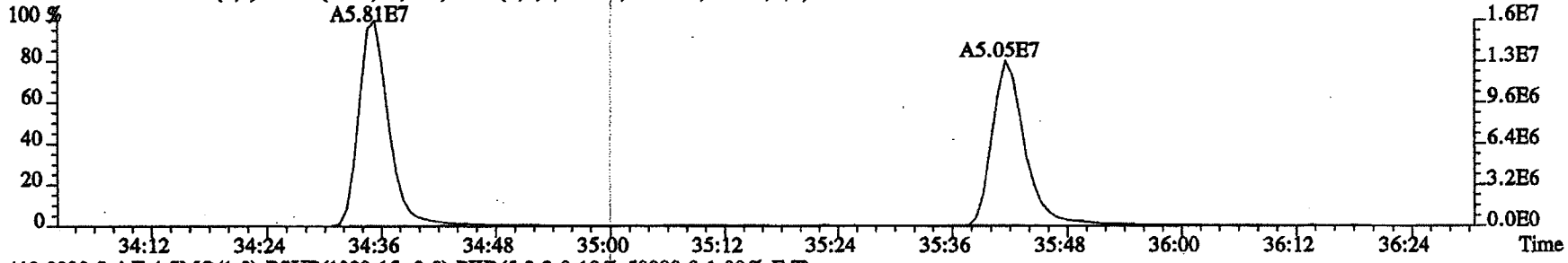
407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,110856.0,1.00%,F,T)



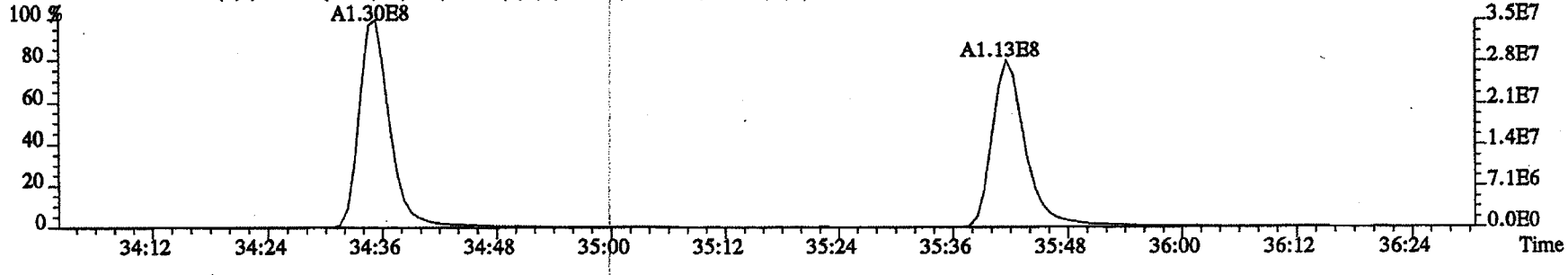
409.7789 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,240904.0,1.00%,F,T)



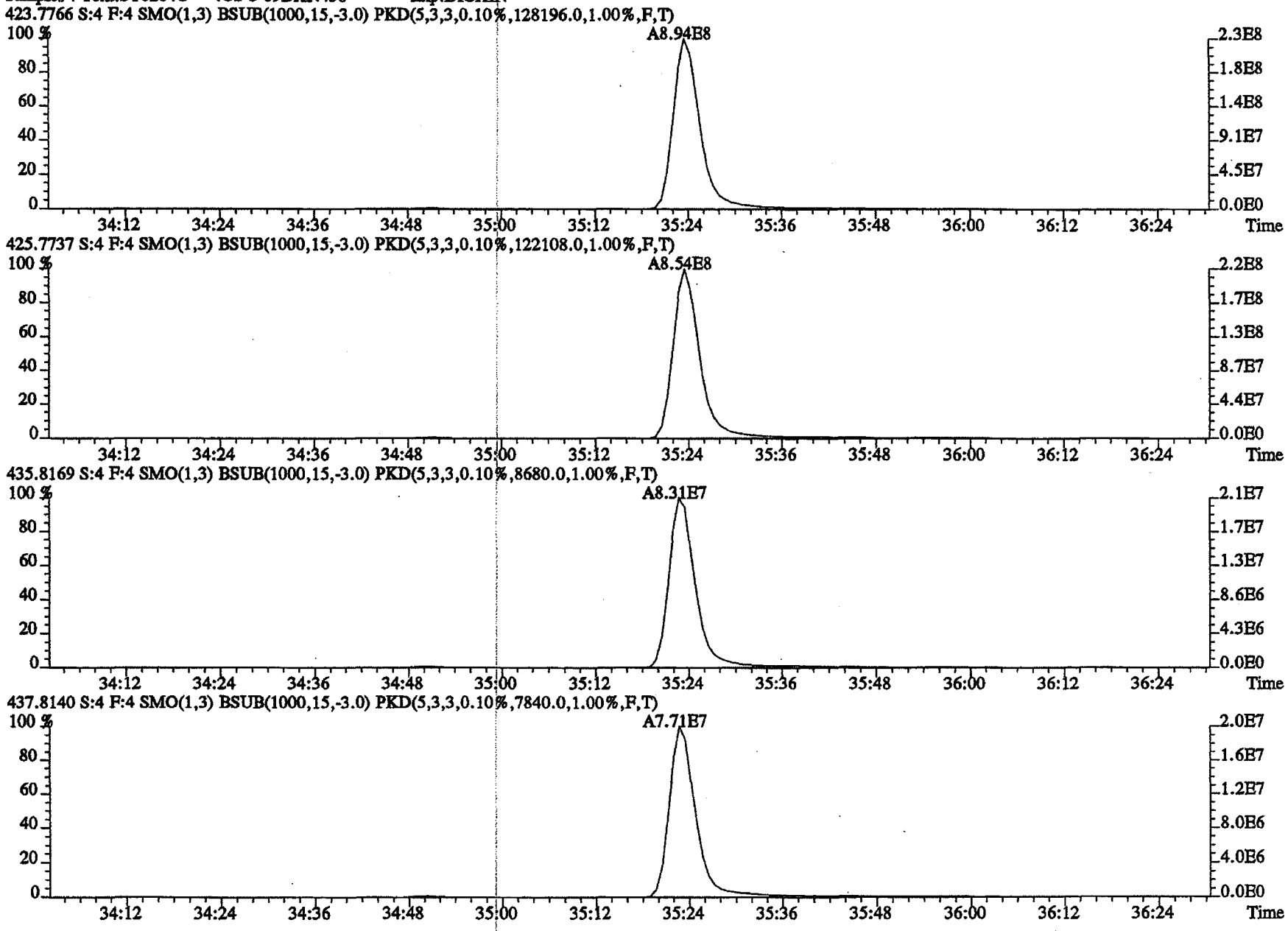
417.8253 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22940.0,1.00%,F,T)



419.8220 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,50080.0,1.00%,F,T)

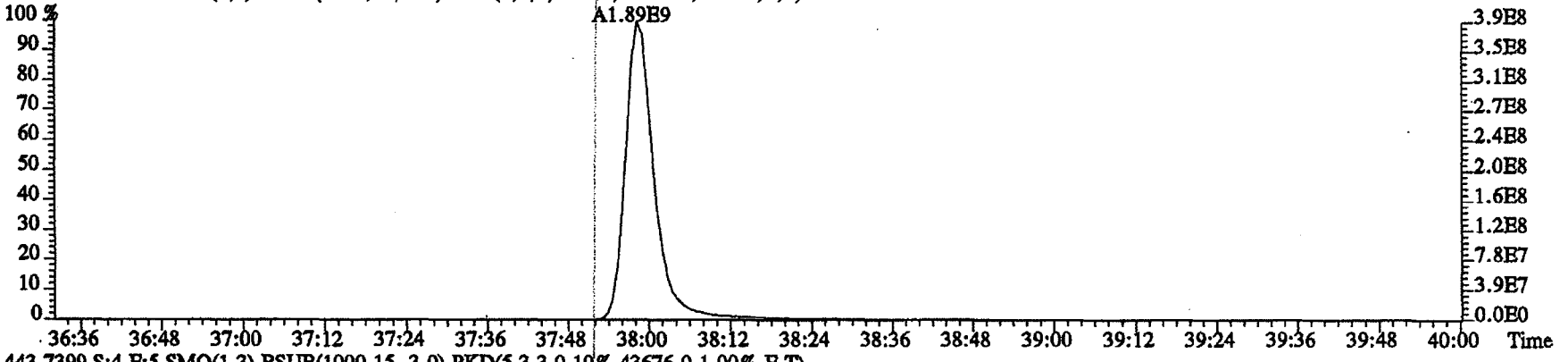


File:04FE104D5 #1-198 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN

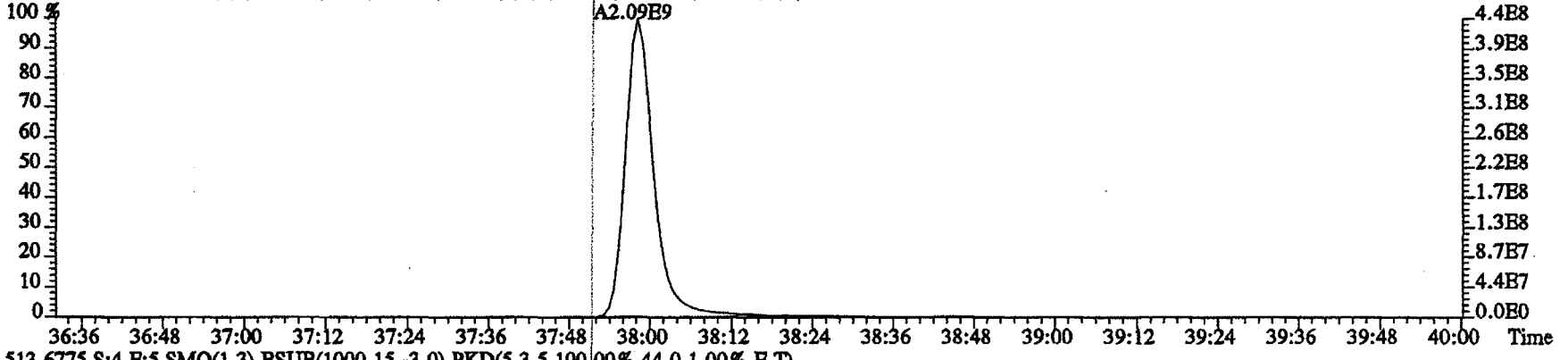


File:04FE104D5 #1-281 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN

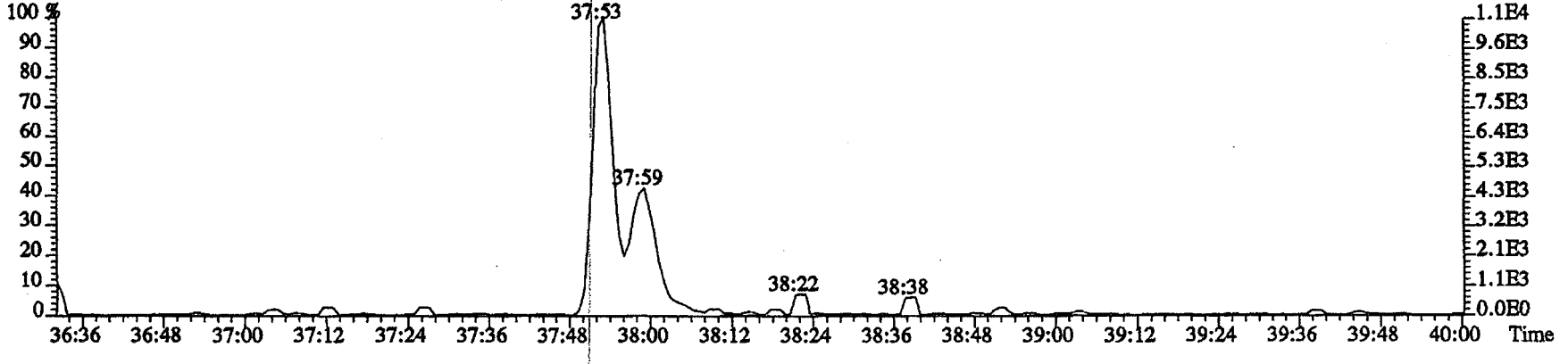
441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52848.0,1.00%,F,T)



443.7399 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,43676.0,1.00%,F,T)

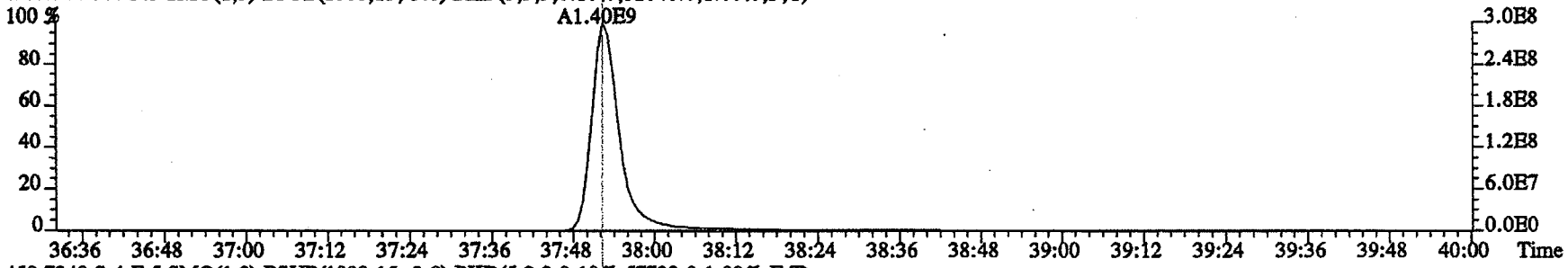


513.6775 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,44.0,1.00%,F,T)

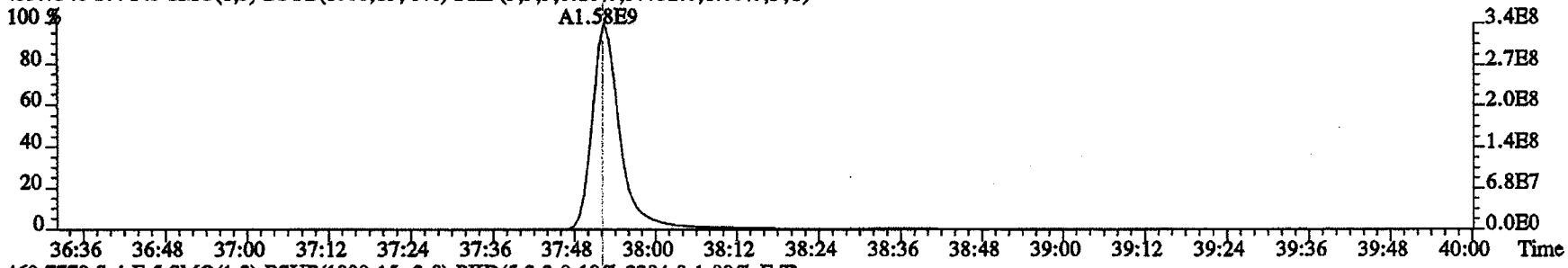


File:04FB104D5 #1-281 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN

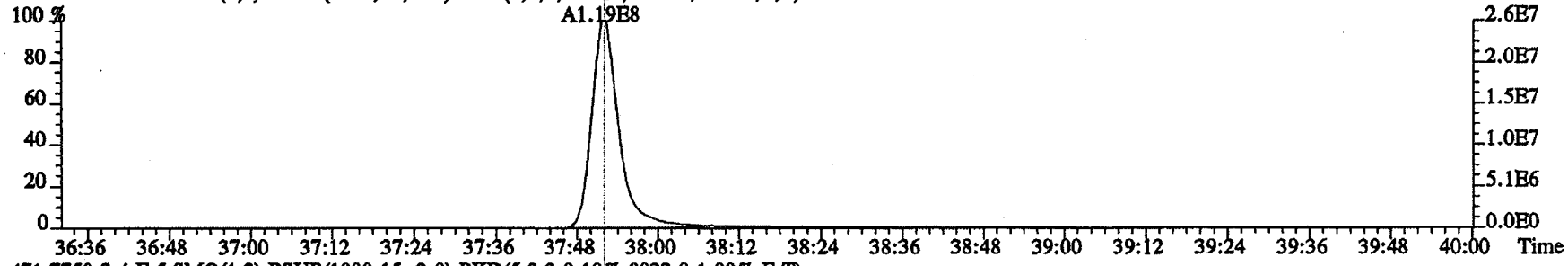
457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52848.0,1.00%,F,T)



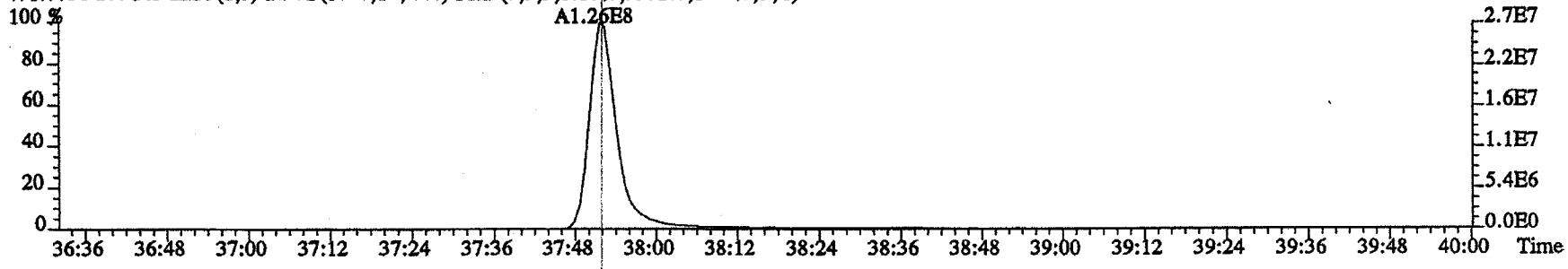
459.7348 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,57732.0,1.00%,F,T)



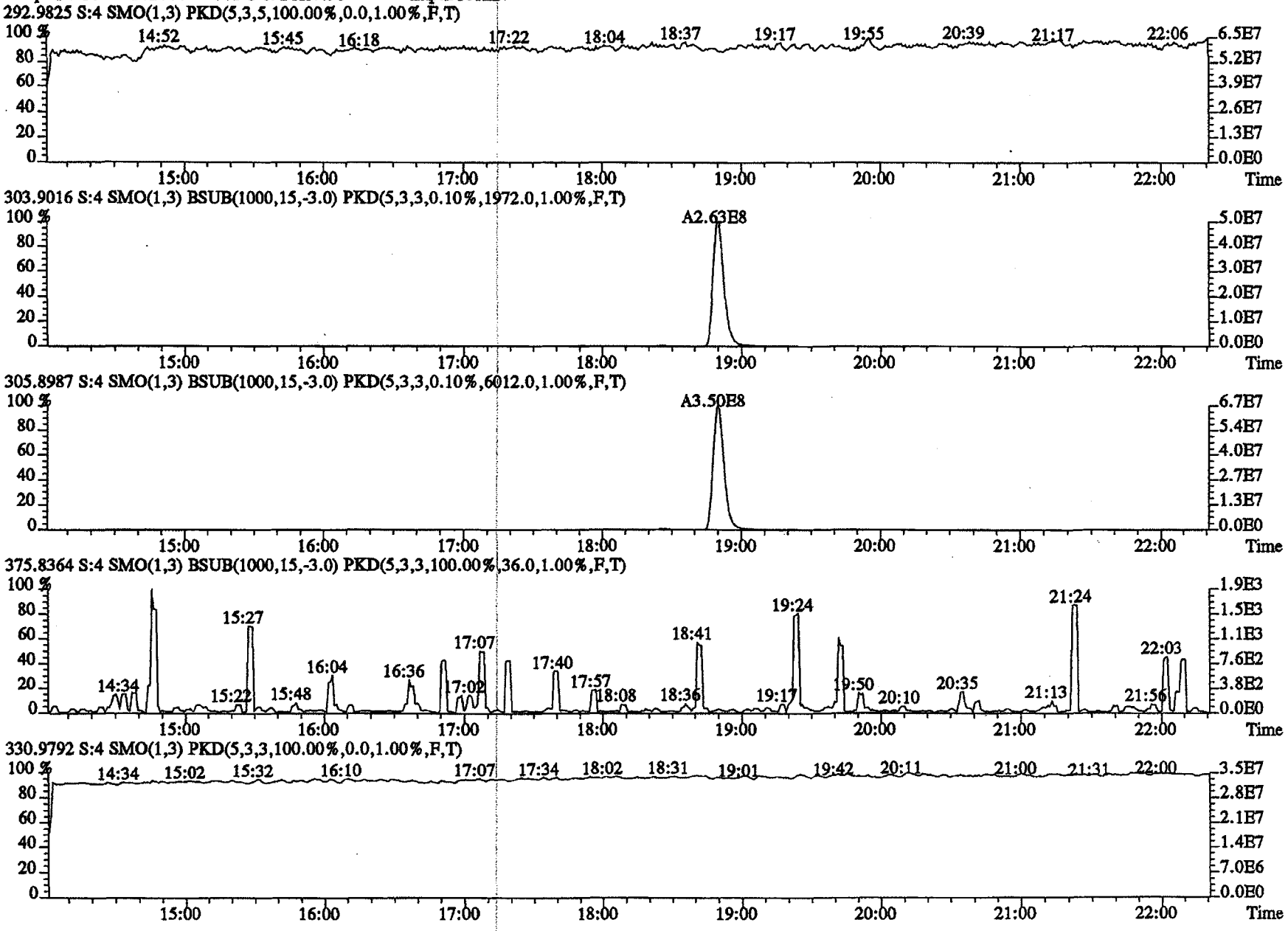
469.7779 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2384.0,1.00%,F,T)



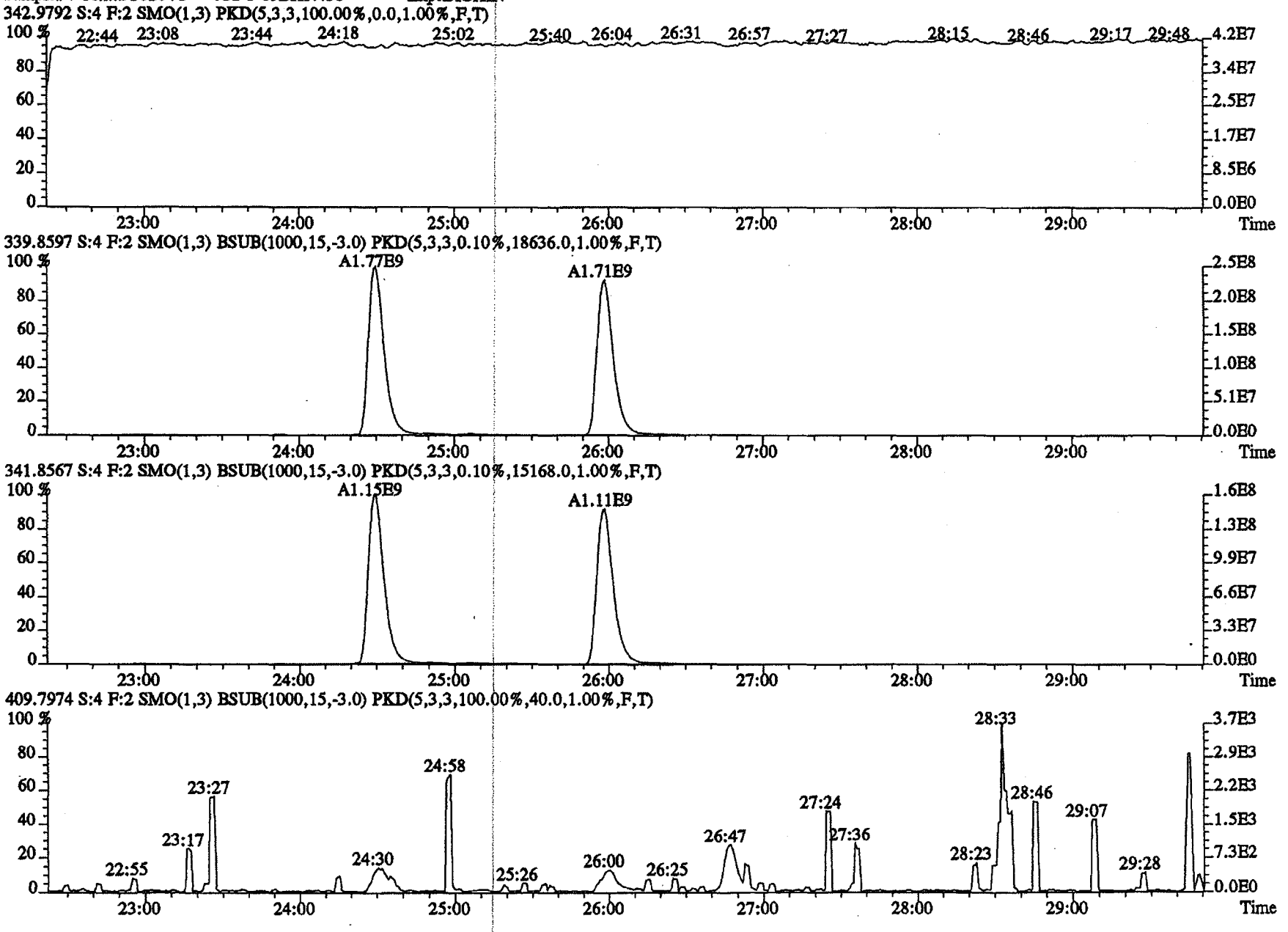
471.7750 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9932.0,1.00%,F,T)



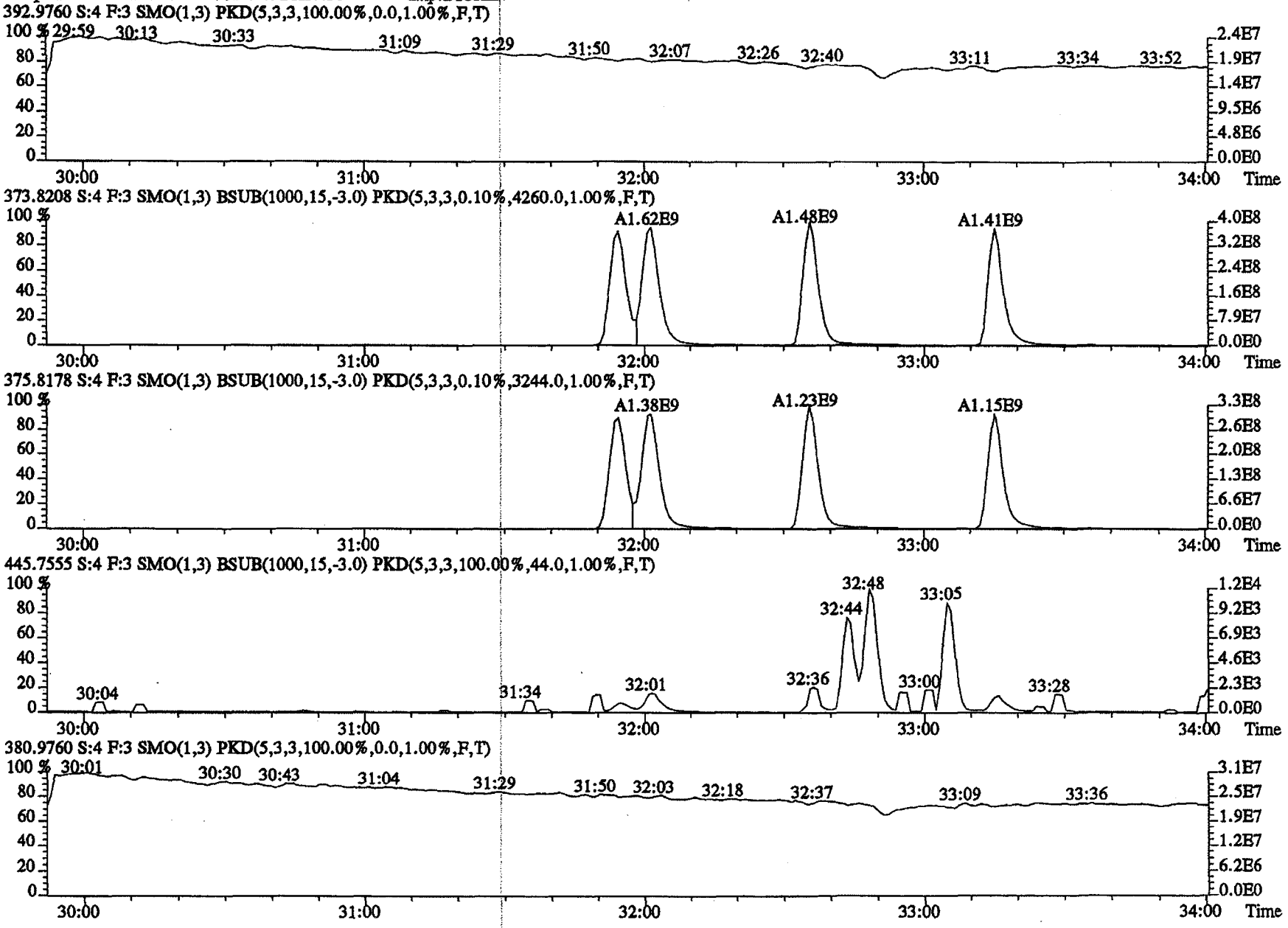
File:04FE104D5 #1-578 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN



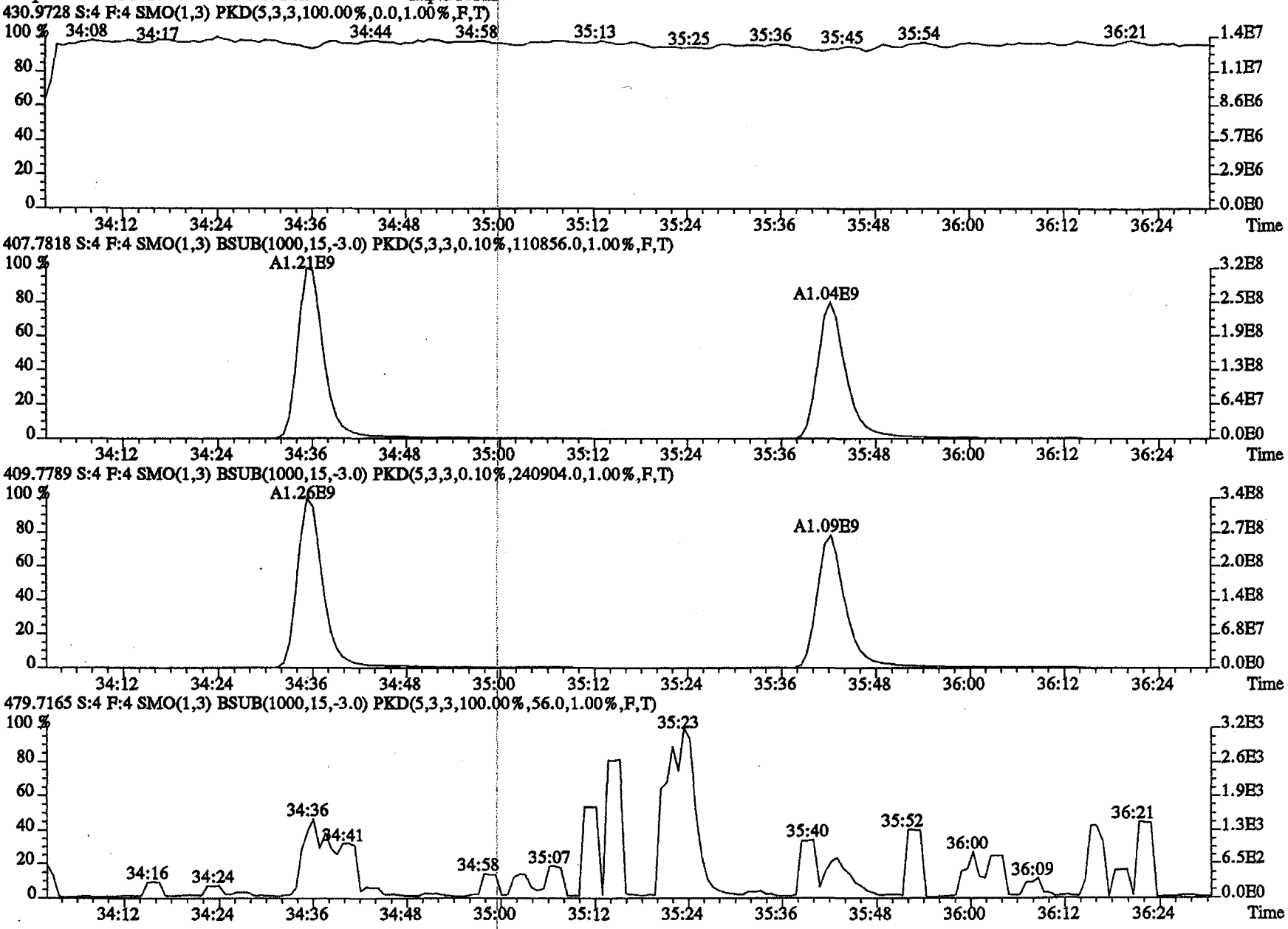
File:04FE104D5 #1-596 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN



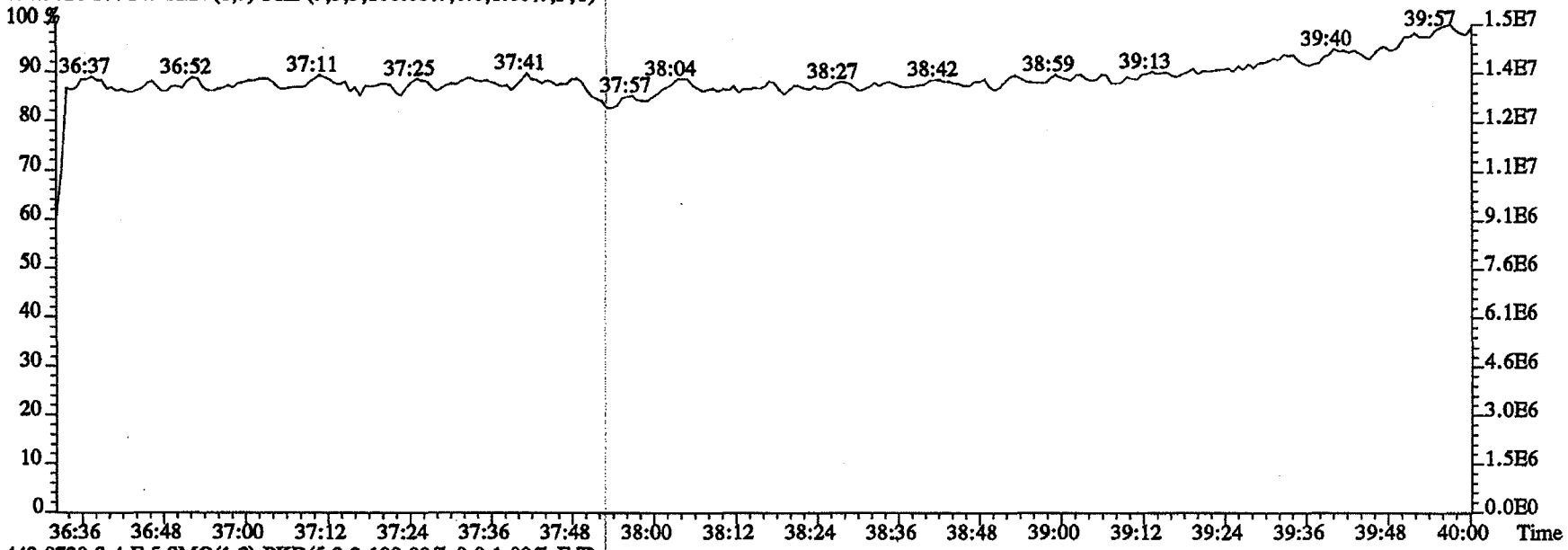
File:04FE104D5 #1-314 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN



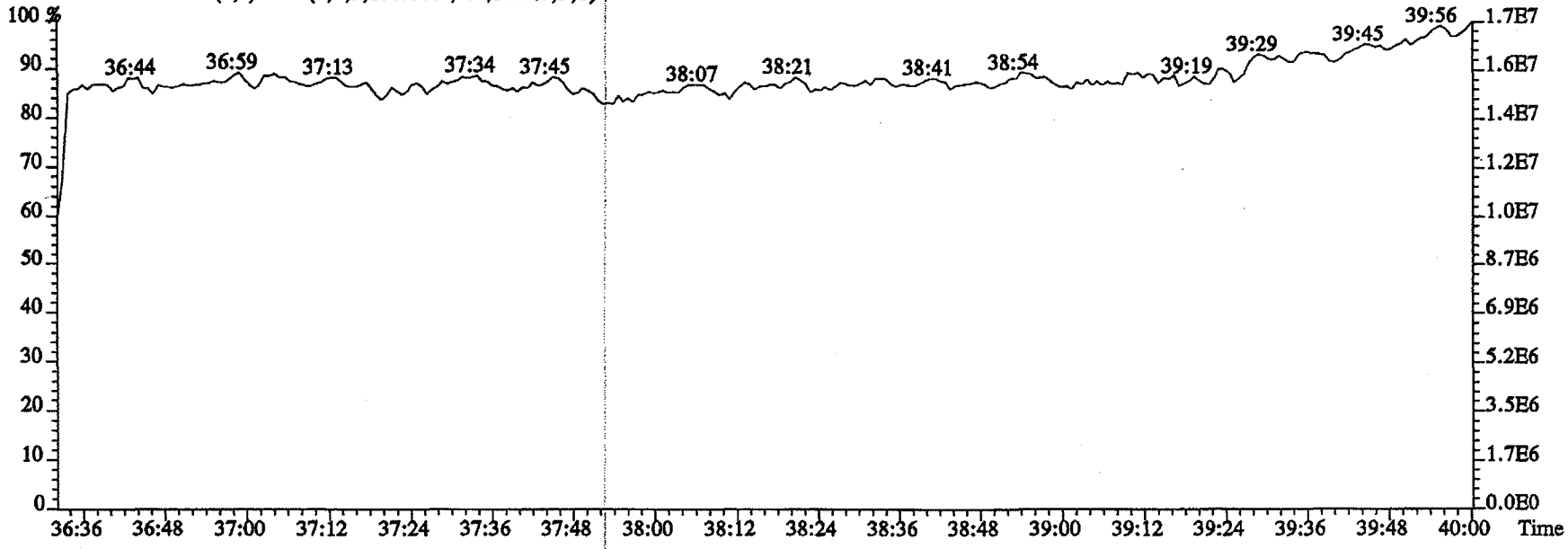
File:04FE104D5 #1-198 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN



File:04FE104D5 #1-281 Acq: 4-FEB-2010 11:54:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0204C :CS-5 09DXN456 Exp:DIOXIN
454.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

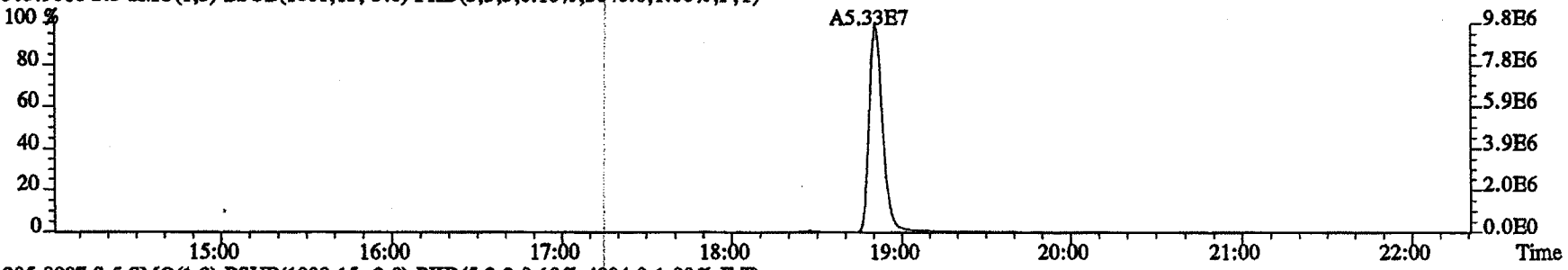


442.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

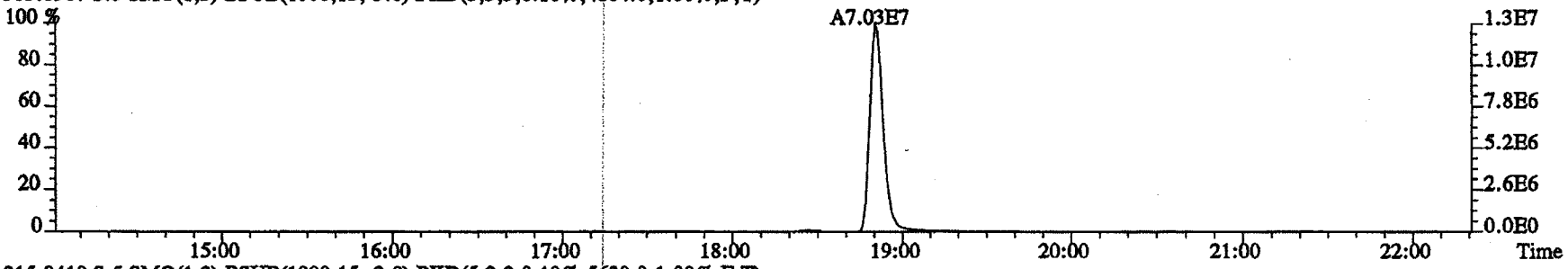


File:04FE104D5 #1-578 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN

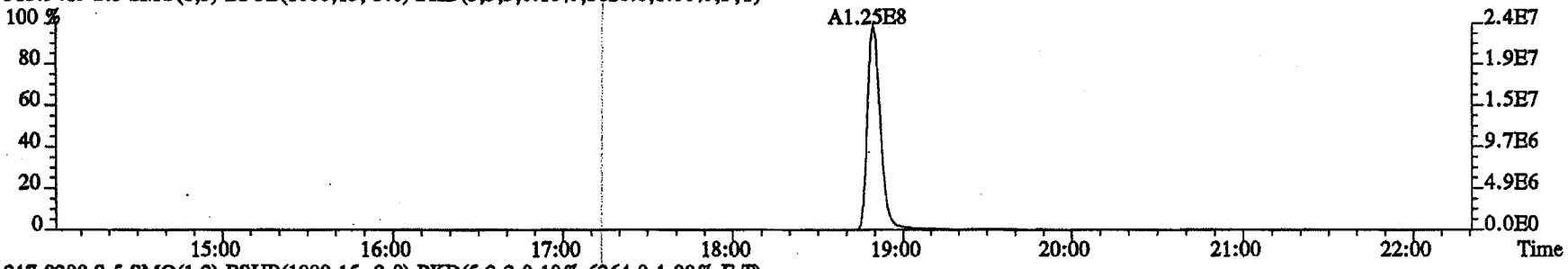
303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5040.0,1.00%,F,T)



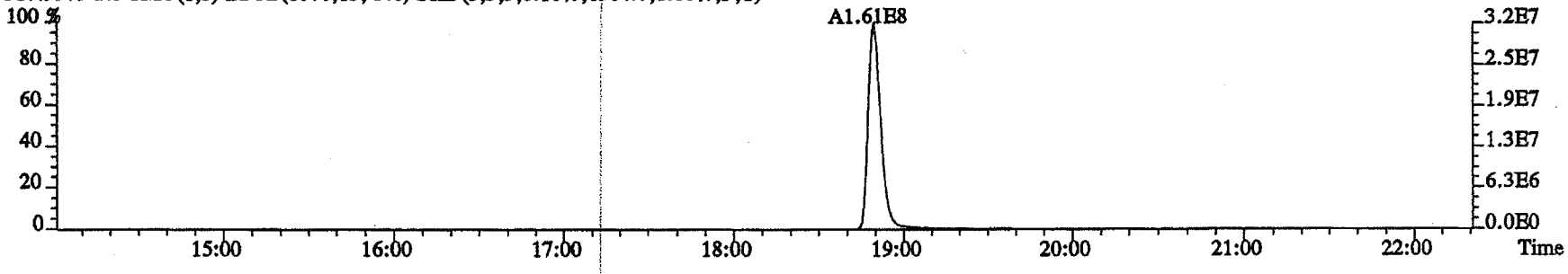
305.8987 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4884.0,1.00%,F,T)



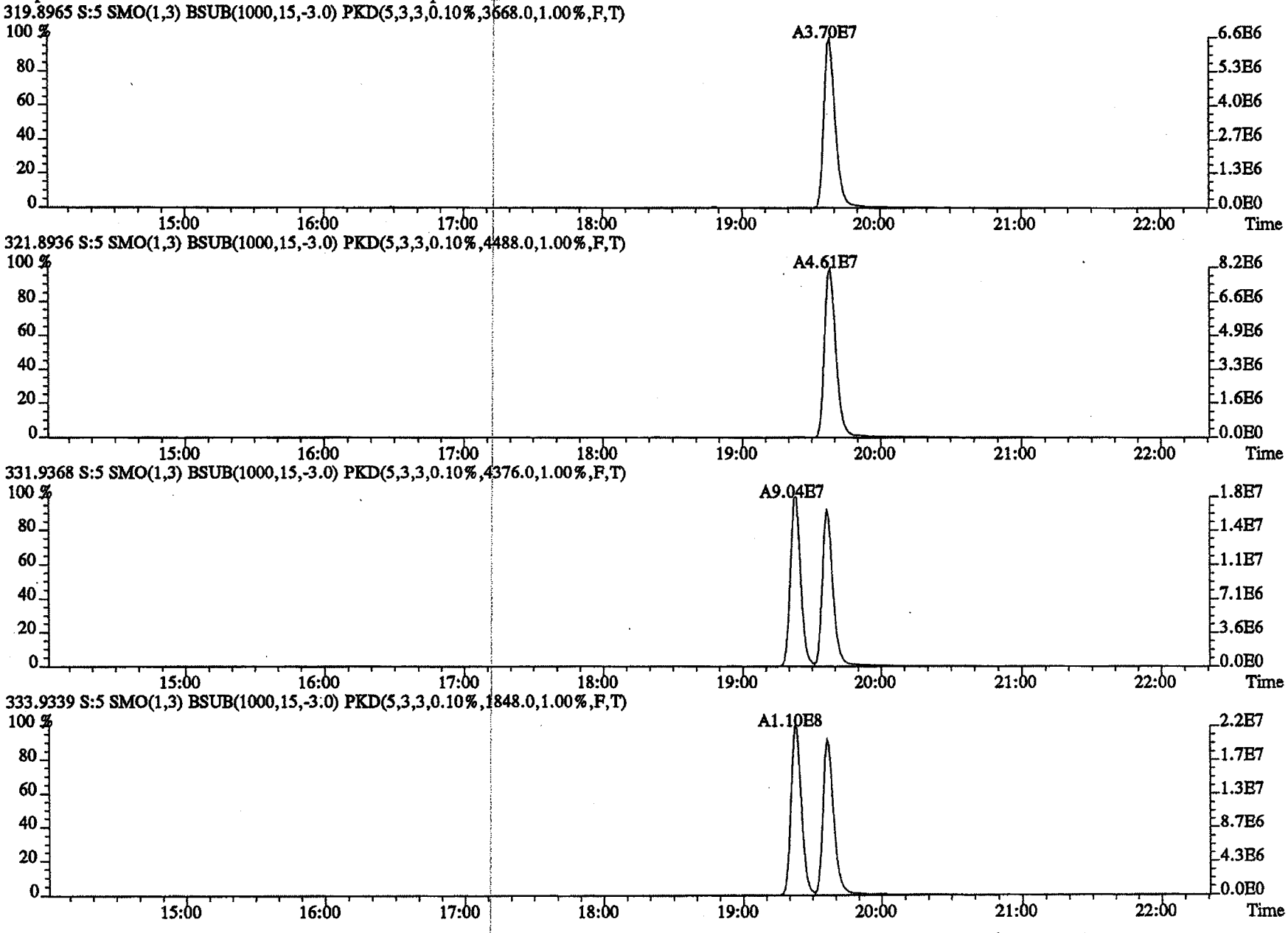
315.9419 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5620.0,1.00%,F,T)



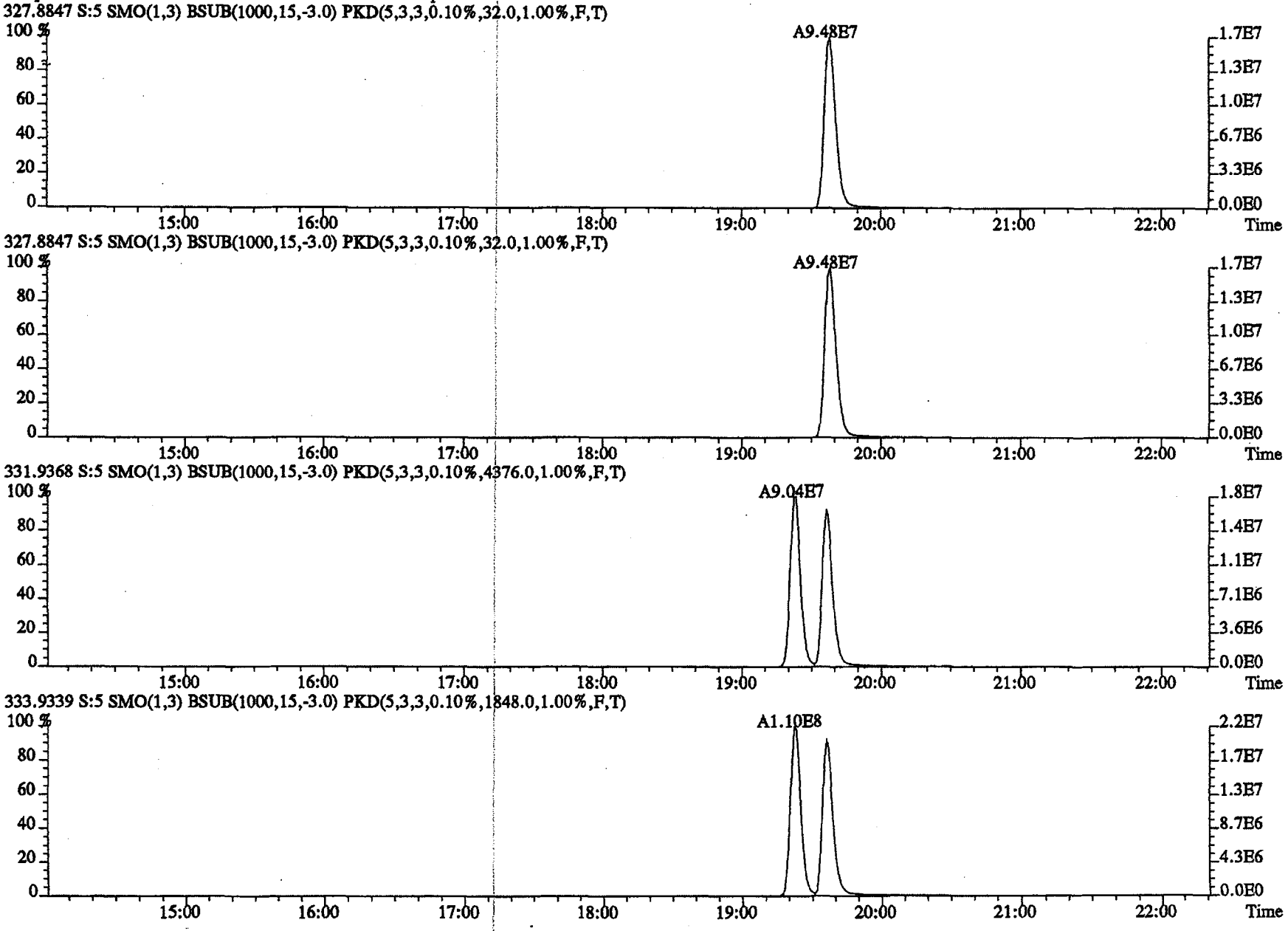
317.9389 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6364.0,1.00%,F,T)



File:04FE104D5 #1-578 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN

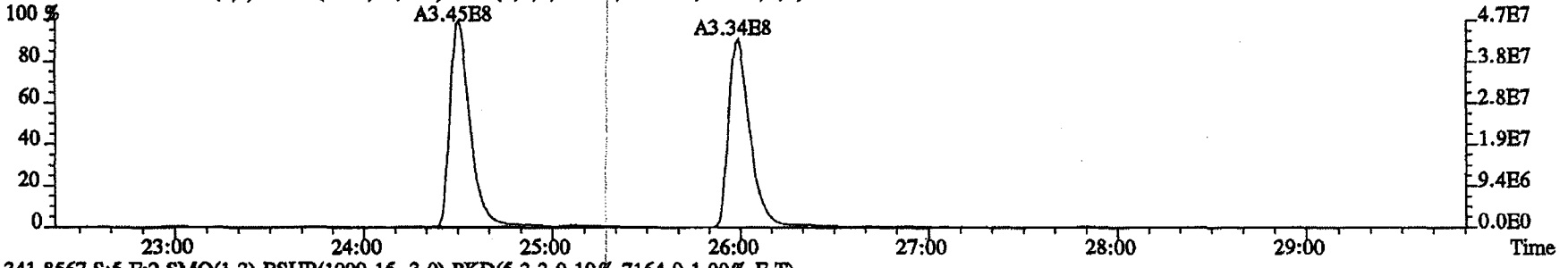


File:04FB104D5 #1-578 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN

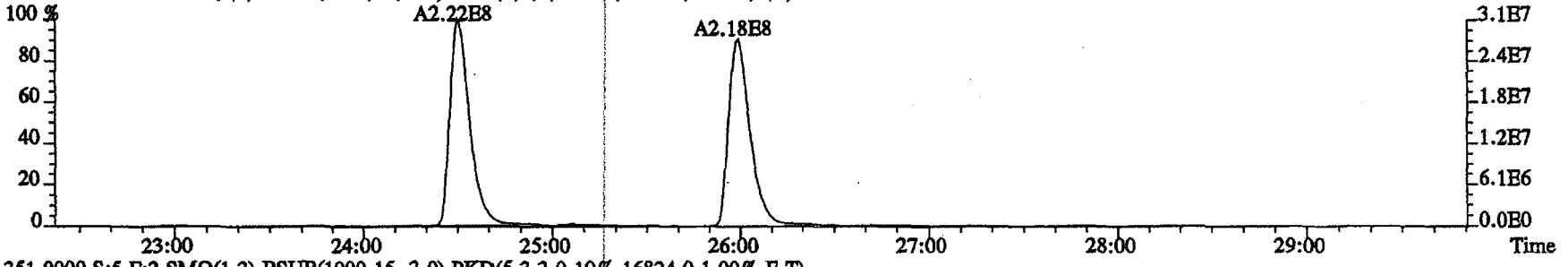


File:04FB104D5 #1-596 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN

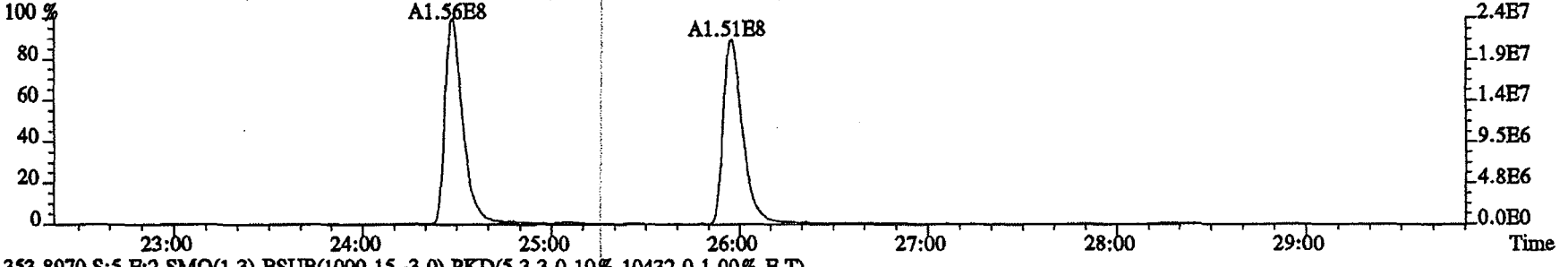
339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10228.0,1.00%,F,T)



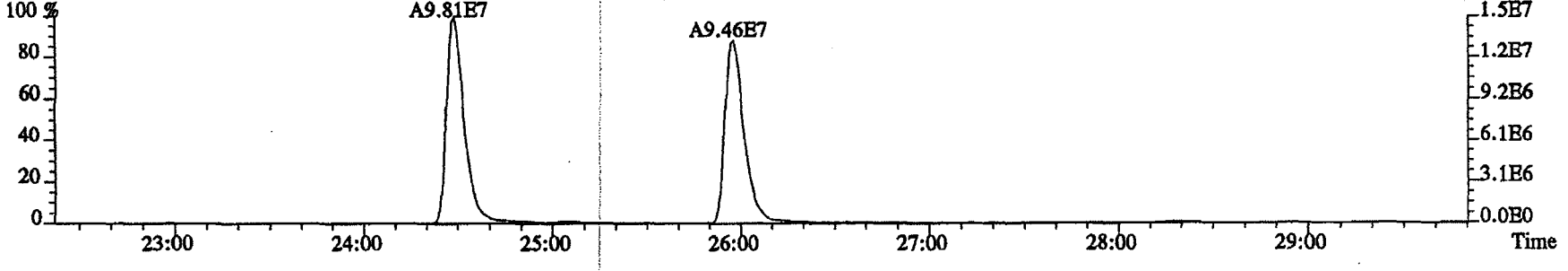
341.8567 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7164.0,1.00%,F,T)



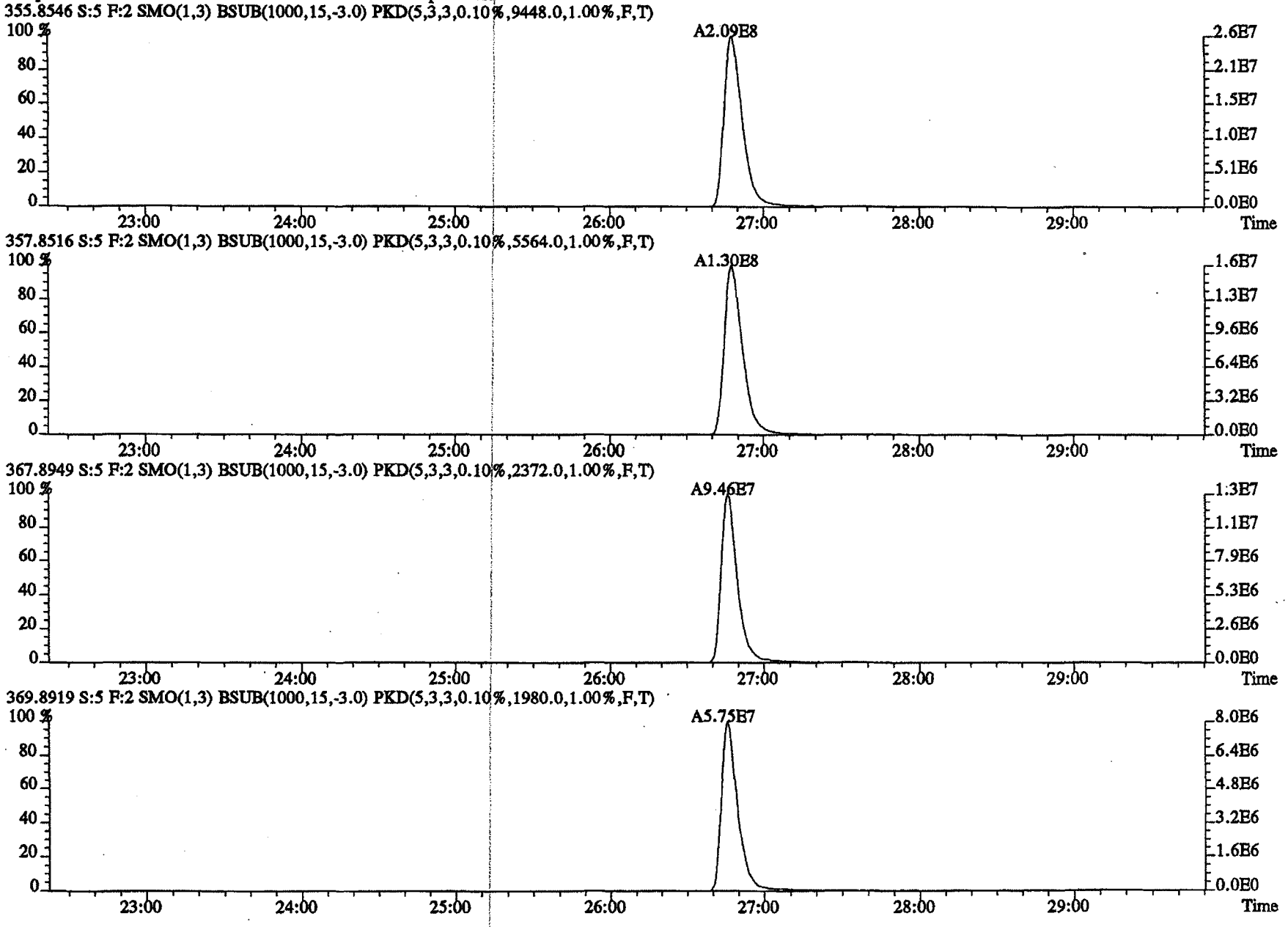
351.9000 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16824.0,1.00%,F,T)



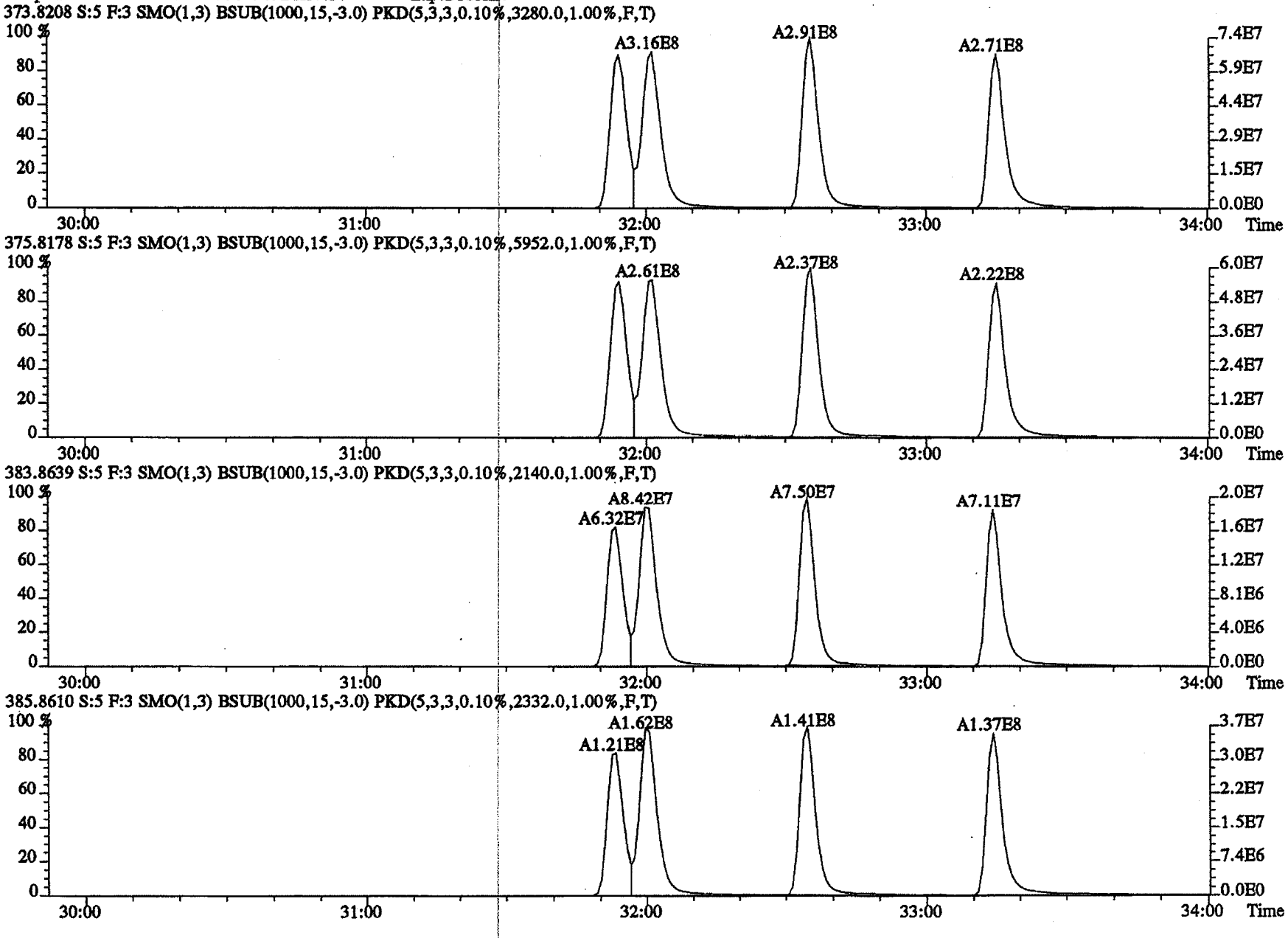
353.8970 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10432.0,1.00%,F,T)



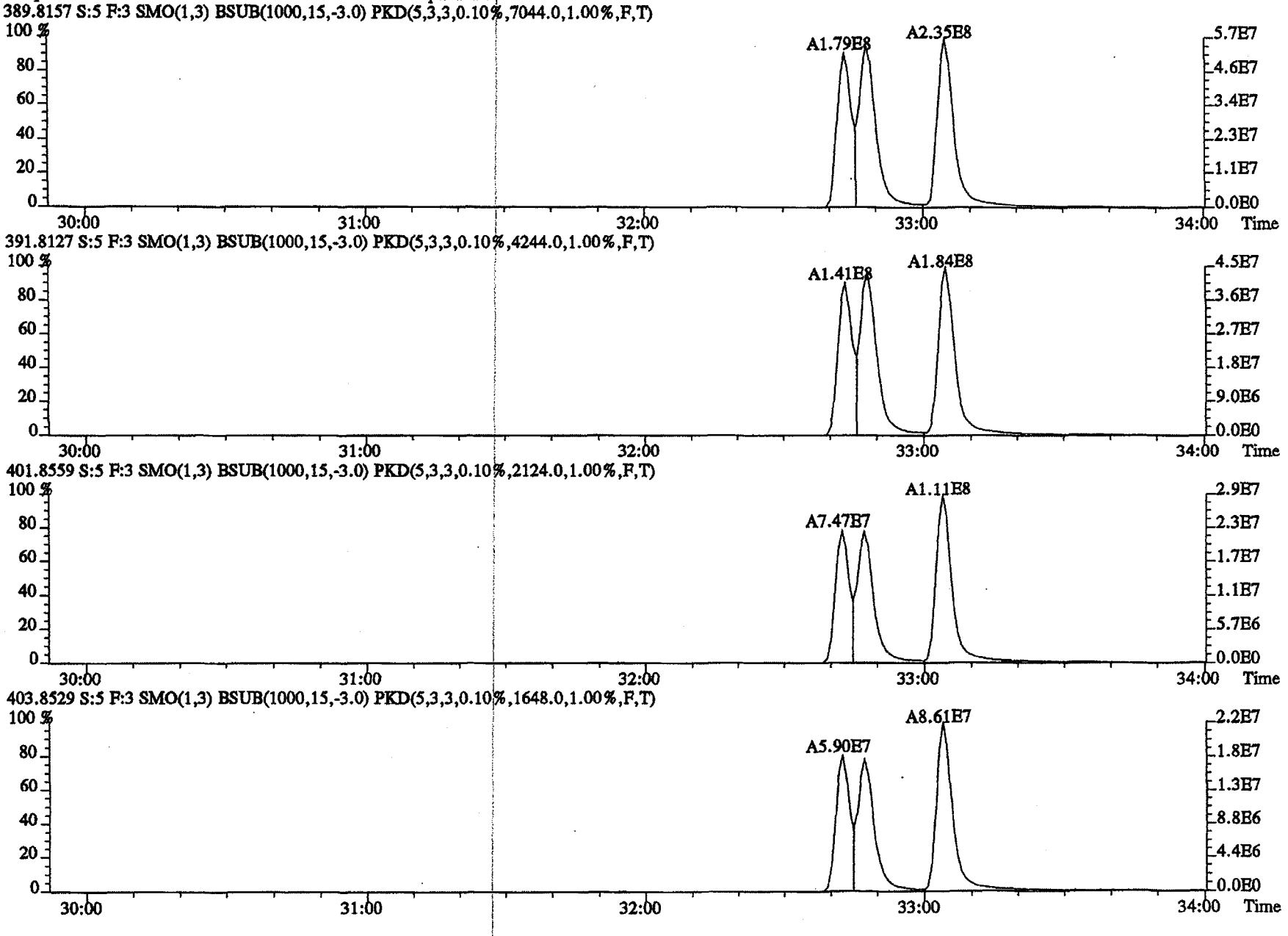
File:04FE104D5 #1-596 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN



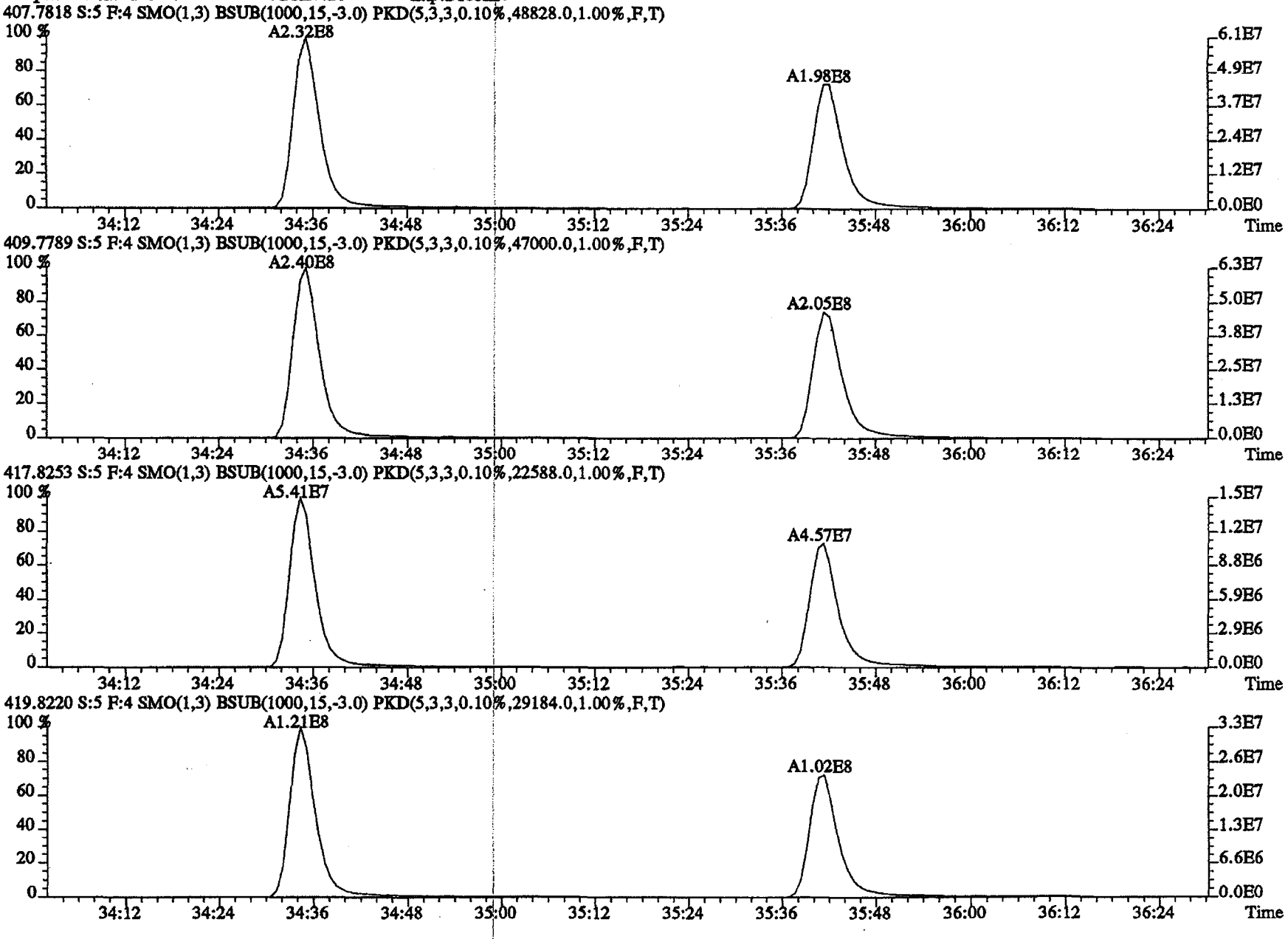
File:04FB104D5 #1-314 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN



File:04FE104D5 #1-314 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN

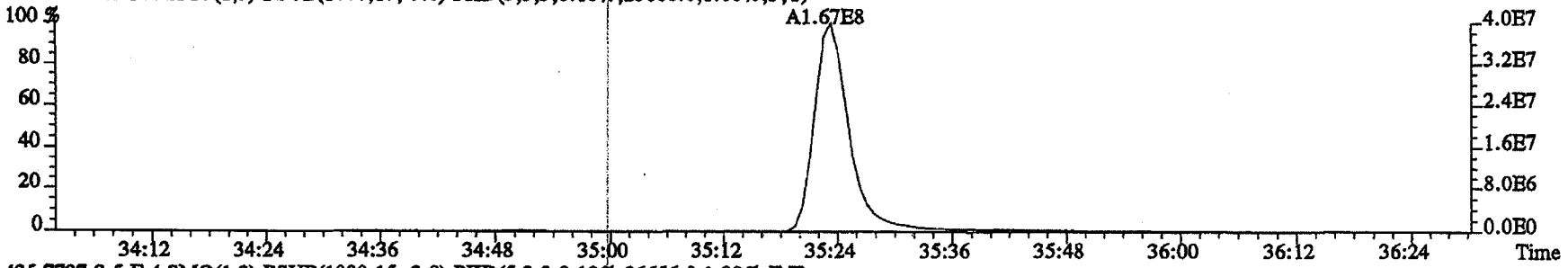


File:04FE104D5 #1-198 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN

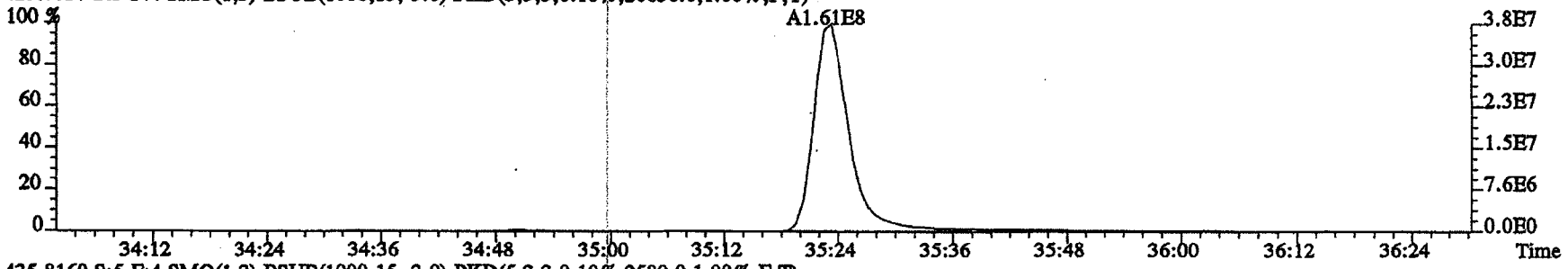


File:04FB104D5 #1-198 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN

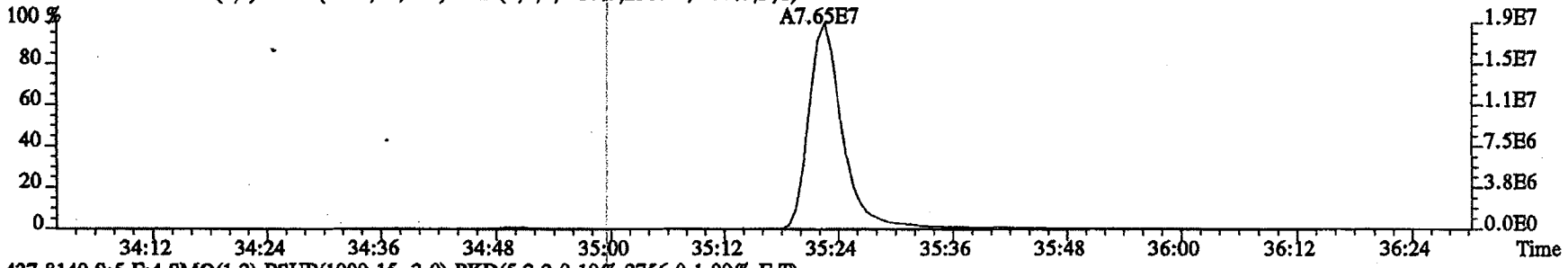
423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25808.0,1.00%,F,T)



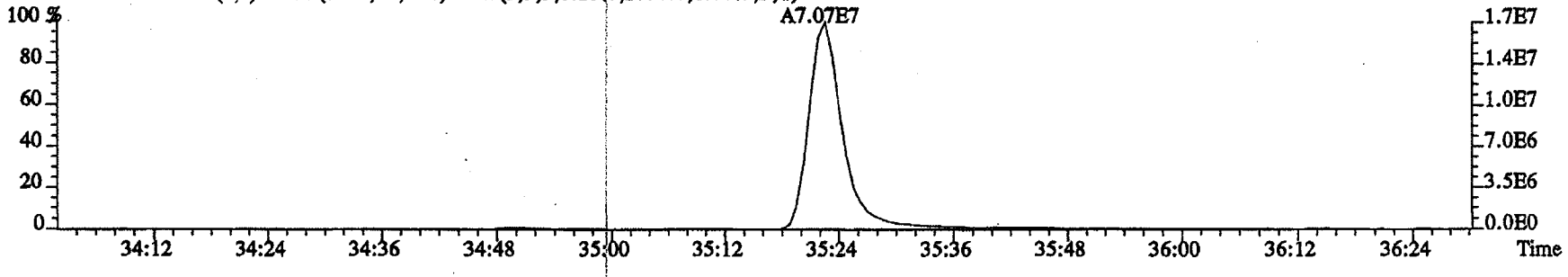
425.7737 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26656.0,1.00%,F,T)



435.8169 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2580.0,1.00%,F,T)

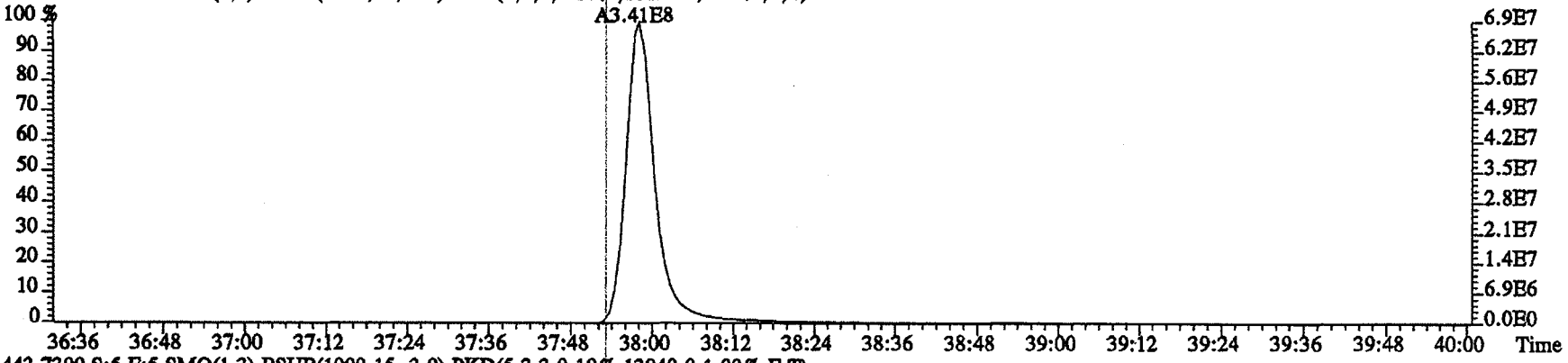


437.8140 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2756.0,1.00%,F,T)

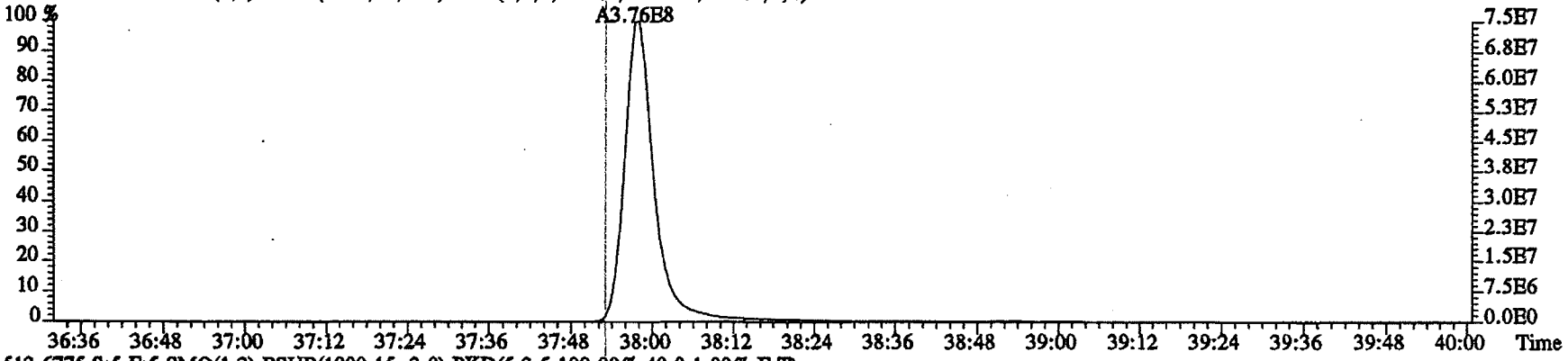


File:04FB104D5 #1-282 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN

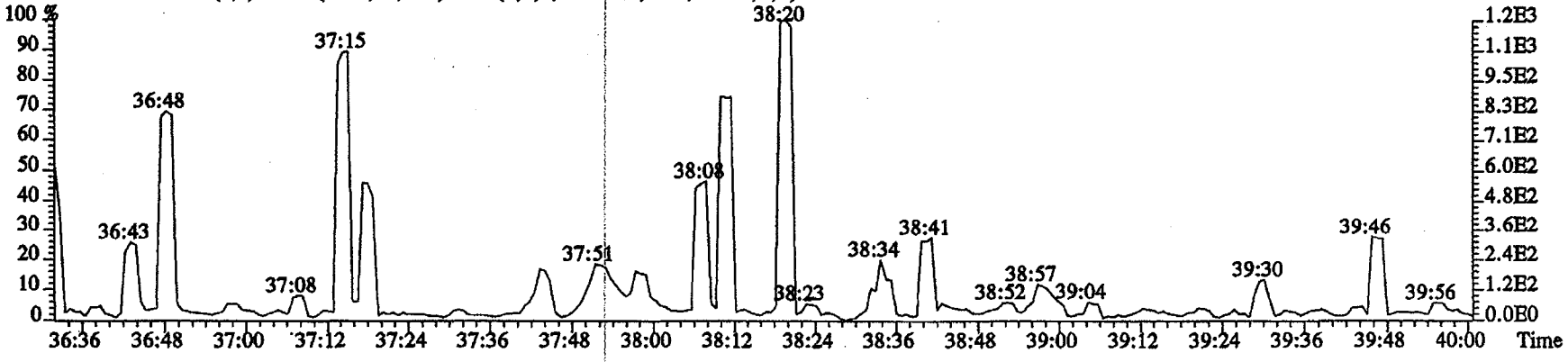
441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11120.0,1.00%,F,T)



443.7399 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13940.0,1.00%,F,T)

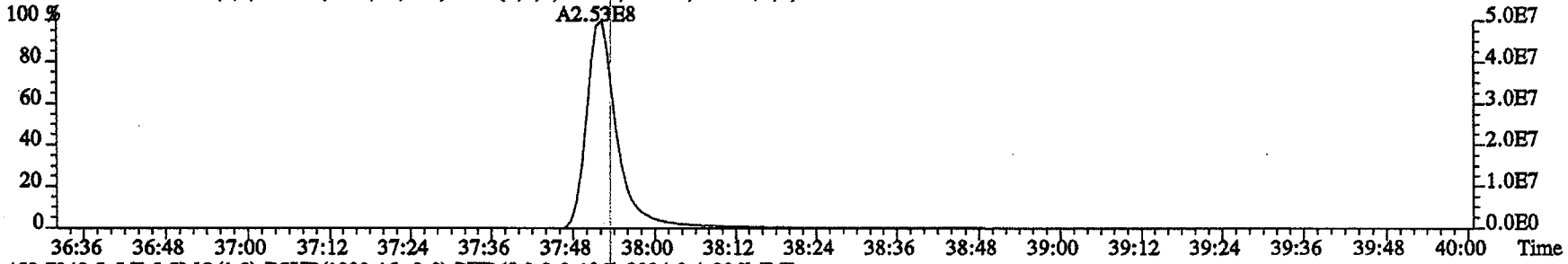


513.6775 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,40.0,1.00%,F,T)

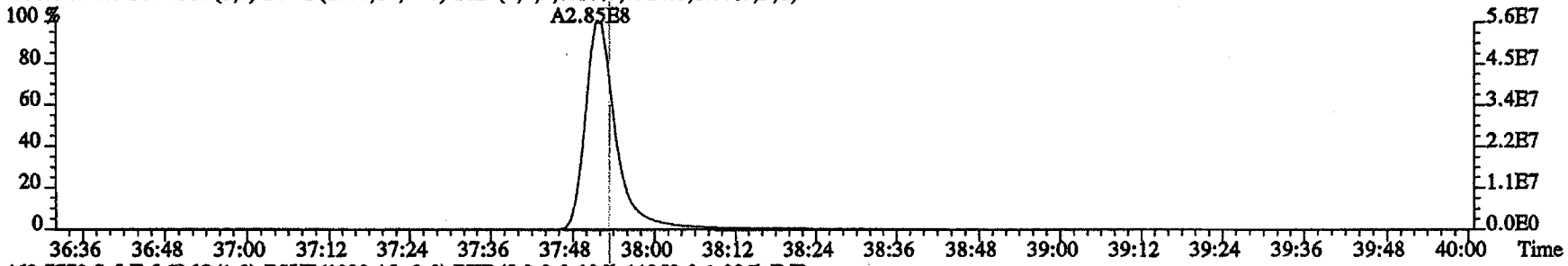


File:04FE104D5 #1-282 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN

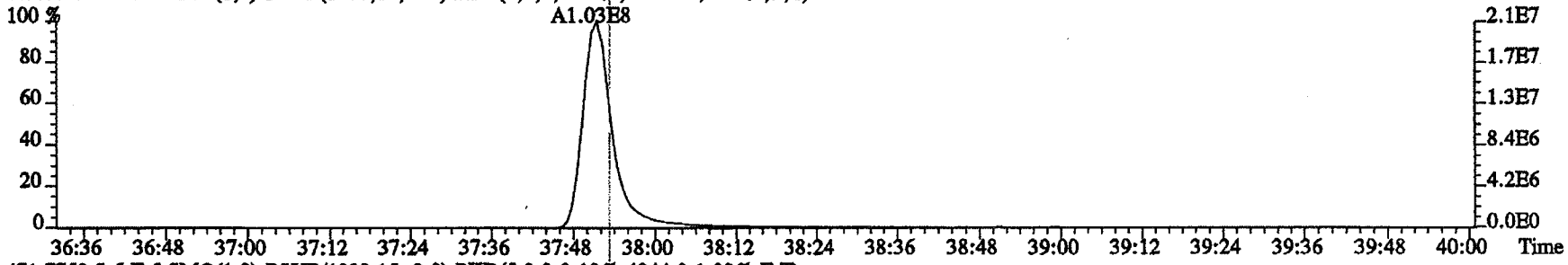
457.7377 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8580.0,1.00%,F,T)



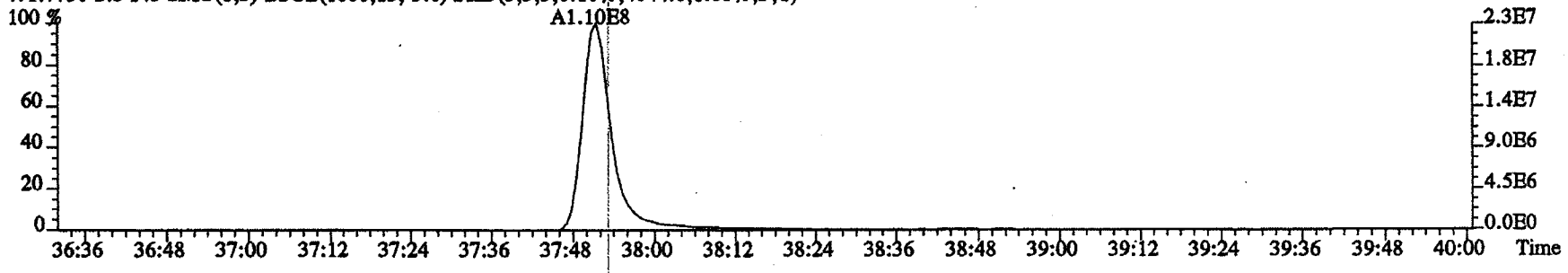
459.7348 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8924.0,1.00%,F,T)



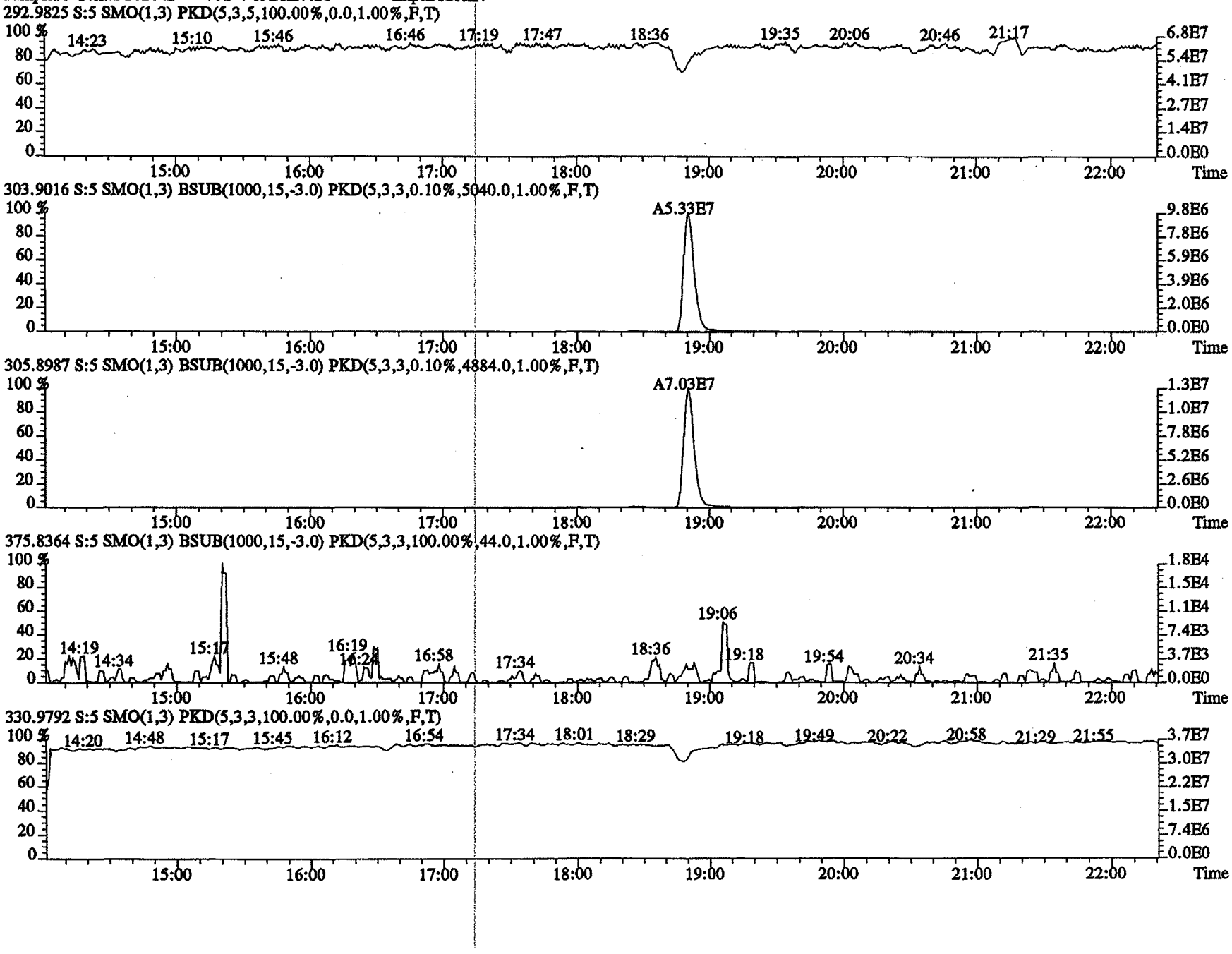
469.7779 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11352.0,1.00%,F,T)



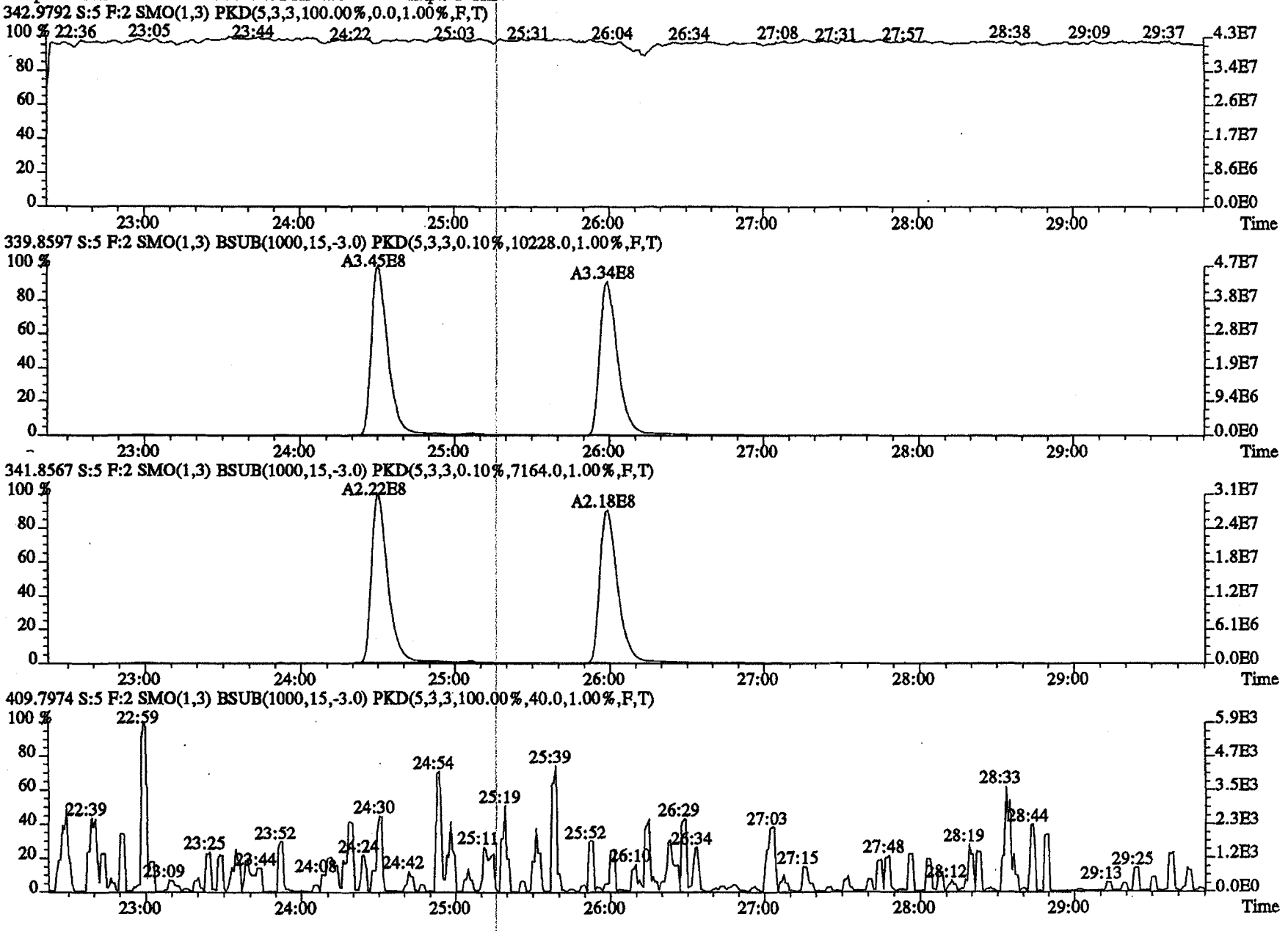
471.7750 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4044.0,1.00%,F,T)



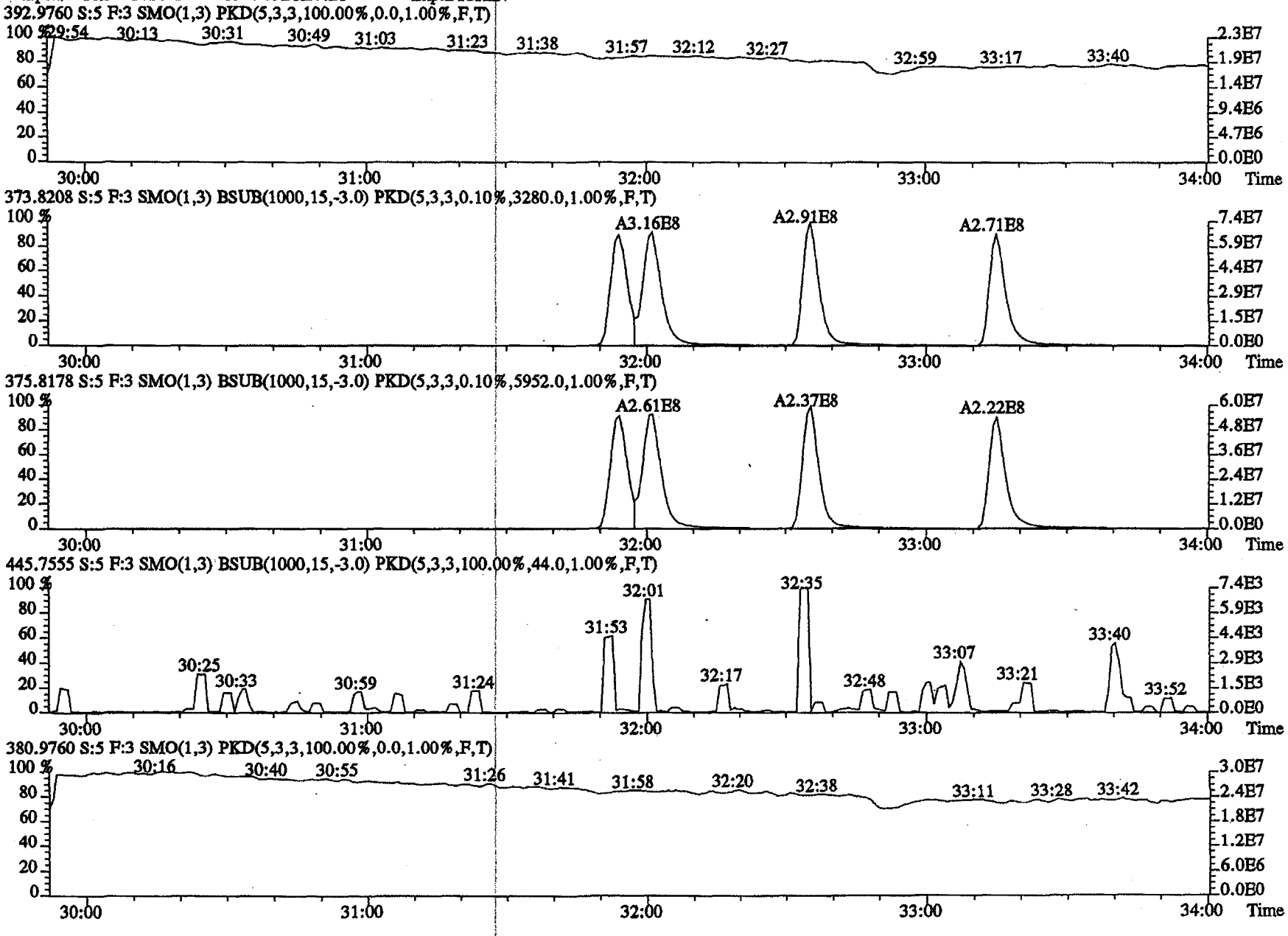
File:04FE104D5 #1-578 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN



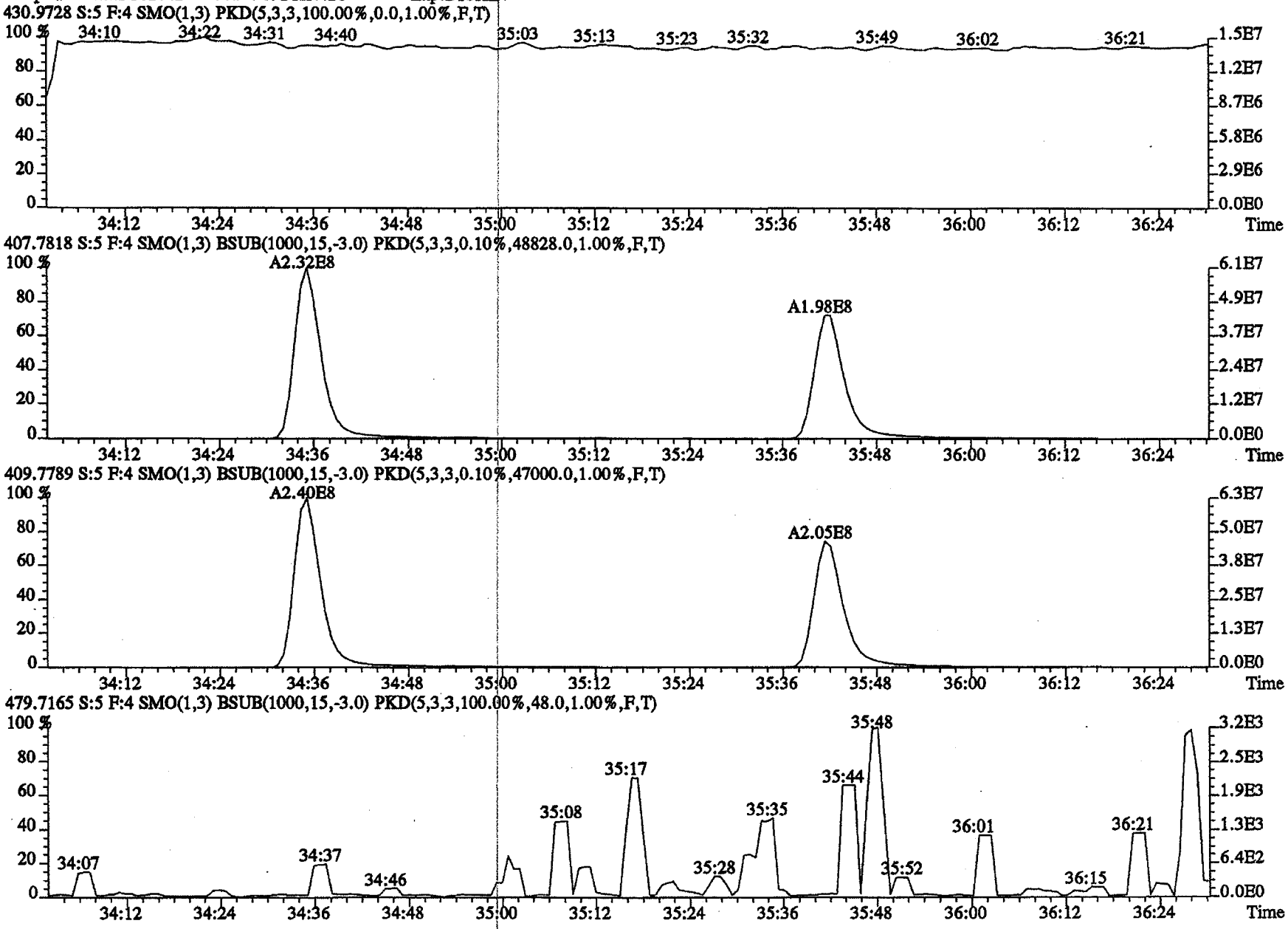
File:04FB104D5 #1-596 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN



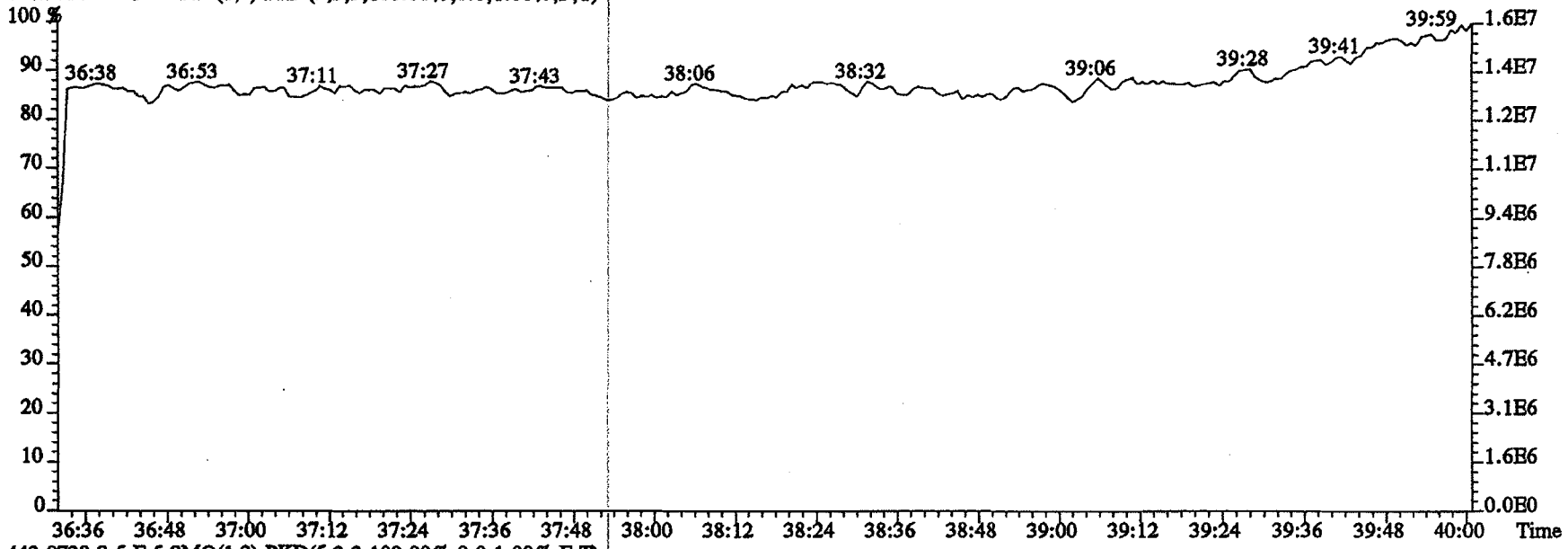
File:04FE104D5 #1-314 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN



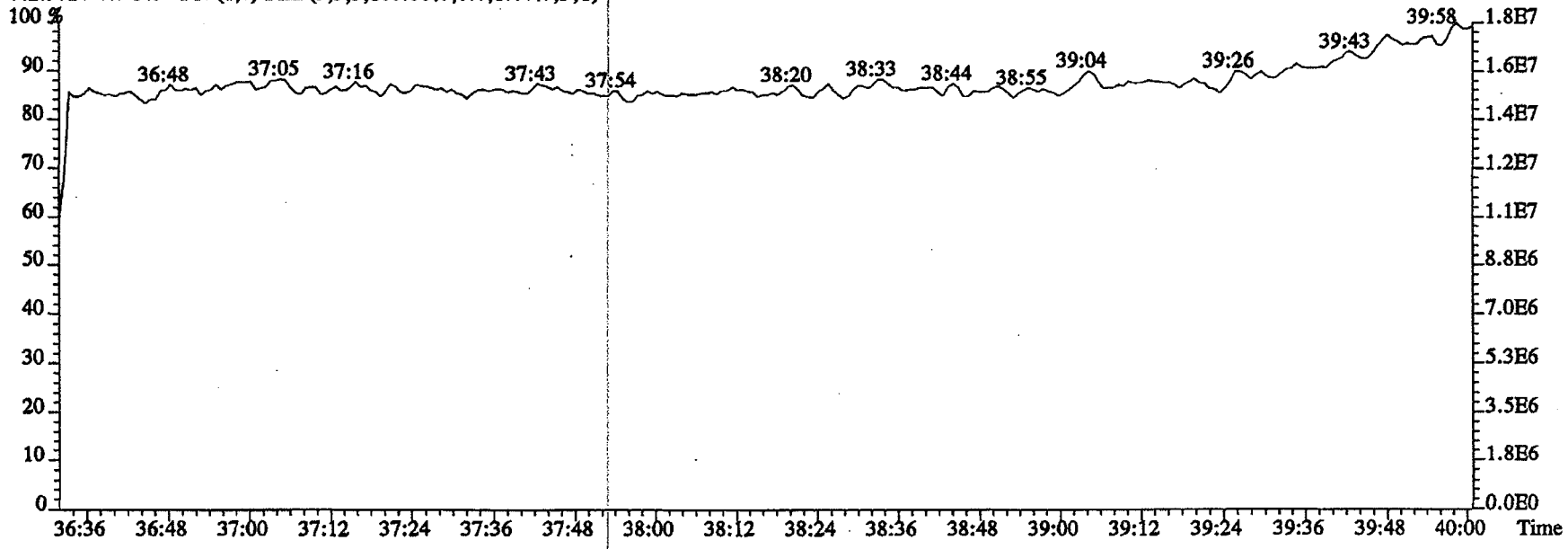
File:04FB104D5 #1-198 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN



File:04FB104D5 #1-282 Acq: 4-FEB-2010 12:38:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0204D :CS-4 09DXN426 Exp:DIOXIN
454.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

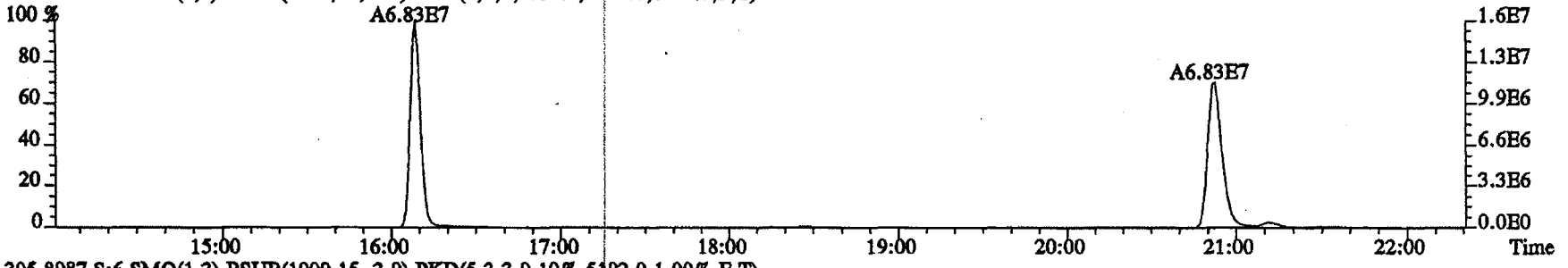


442.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

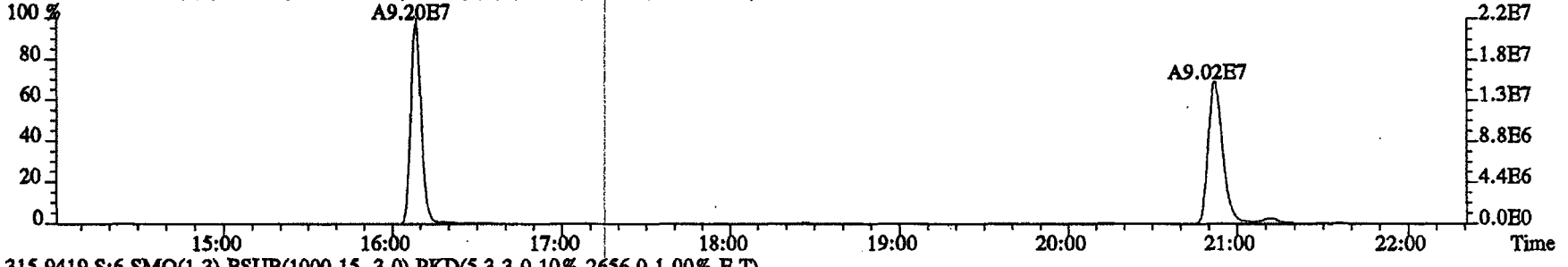


File:04FB104D5 #1-578 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN

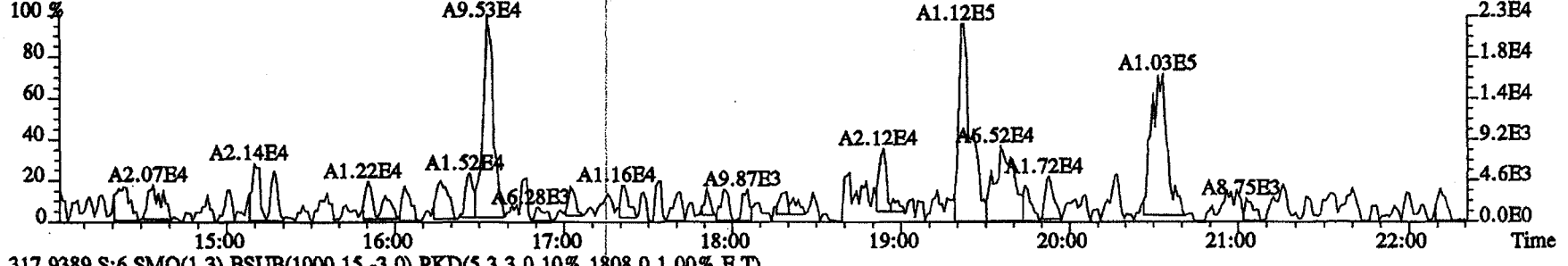
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3680.0,1.00%,F,T)



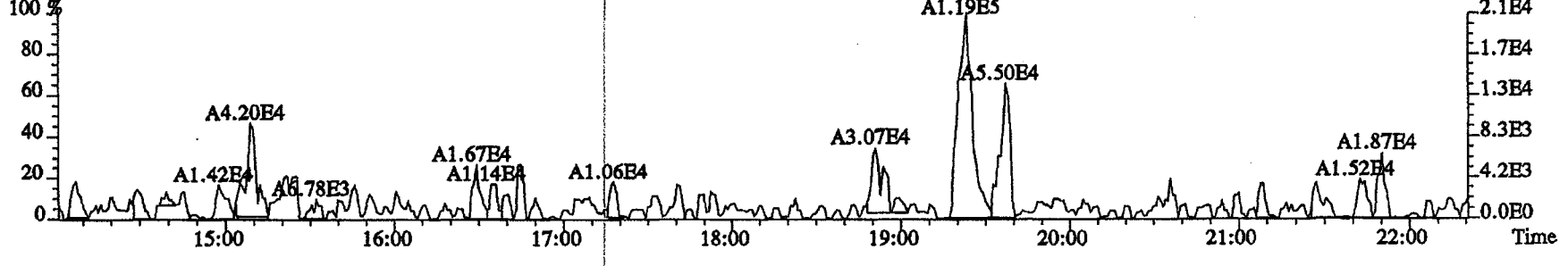
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5192.0,1.00%,F,T)



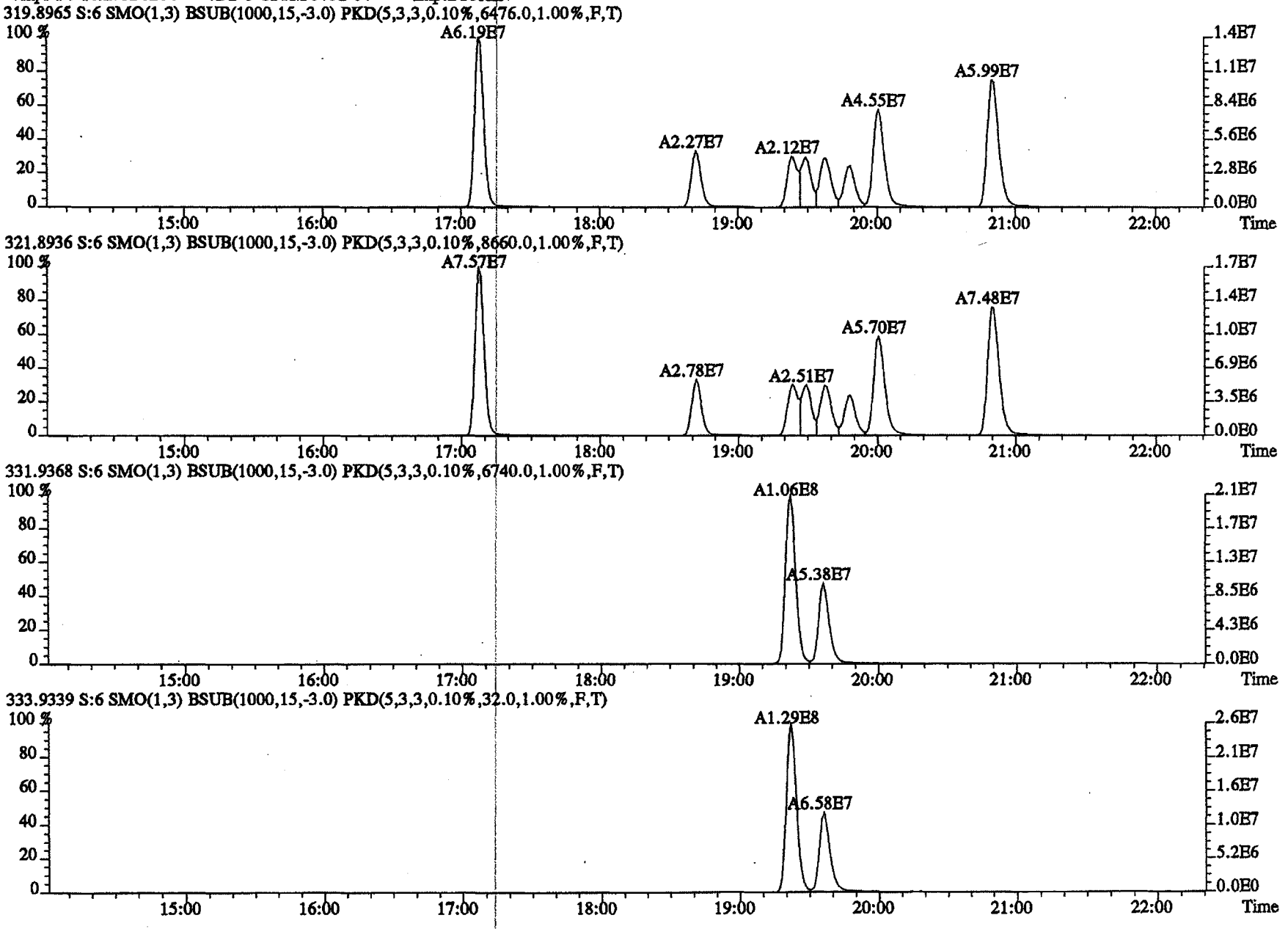
315.9419 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2656.0,1.00%,F,T)



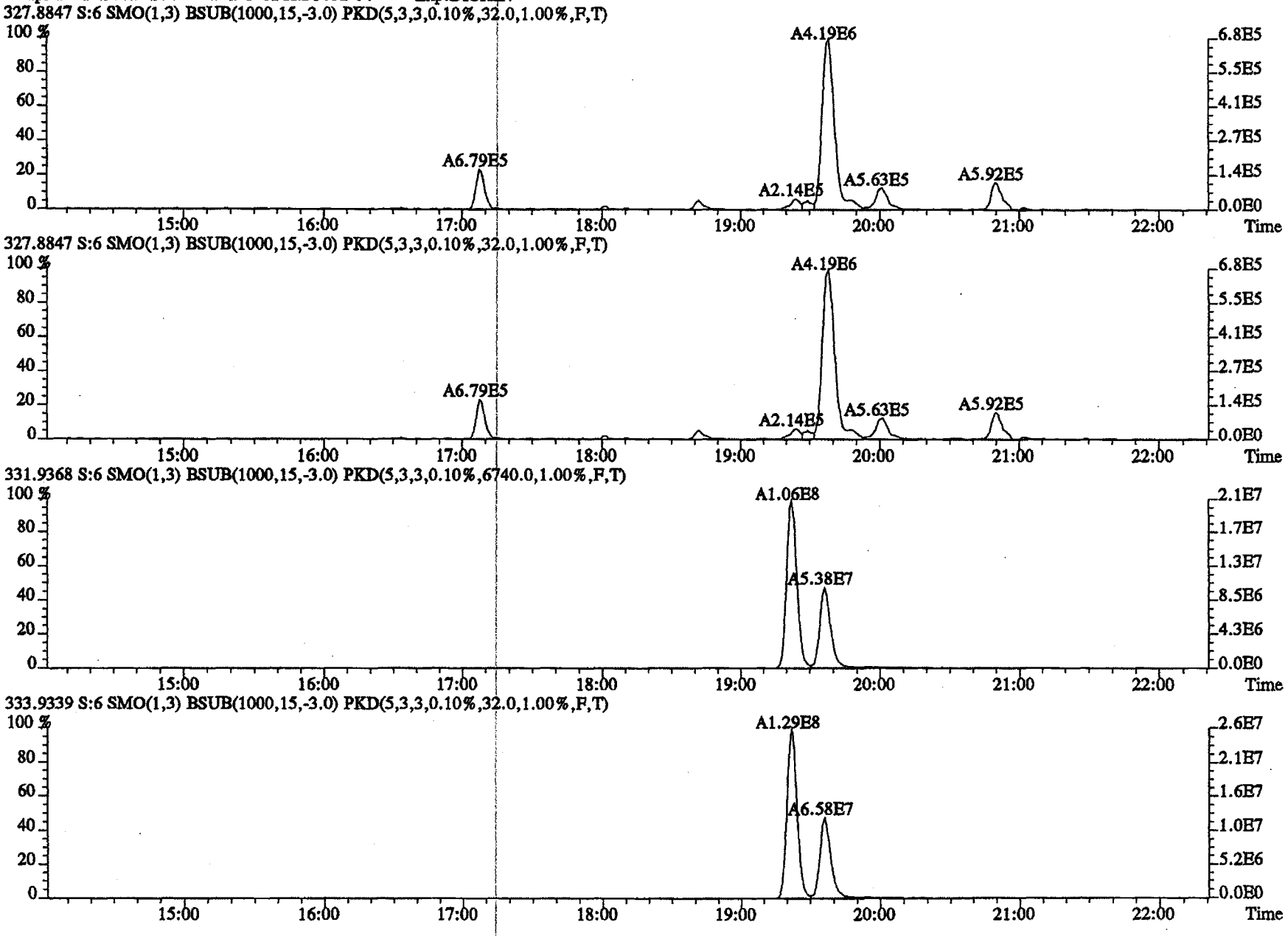
317.9389 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1808.0,1.00%,F,T)



File:04FE104D5 #1-578 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN

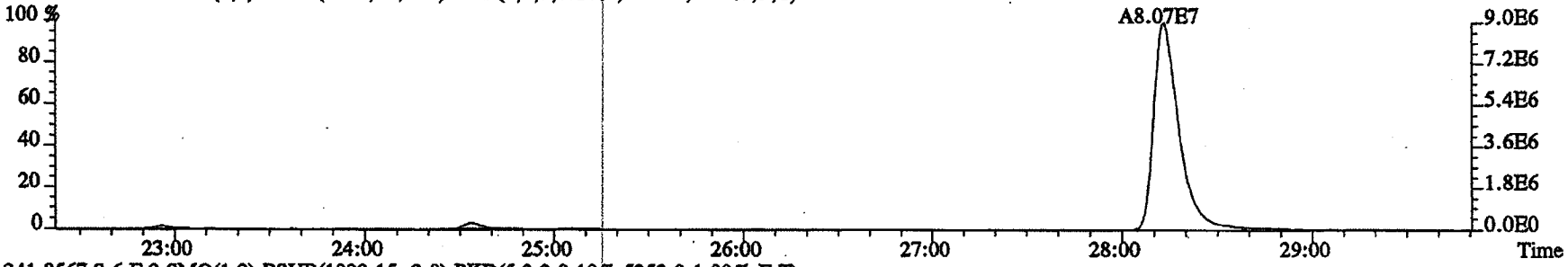


File:04FB104D5 #1-578 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN

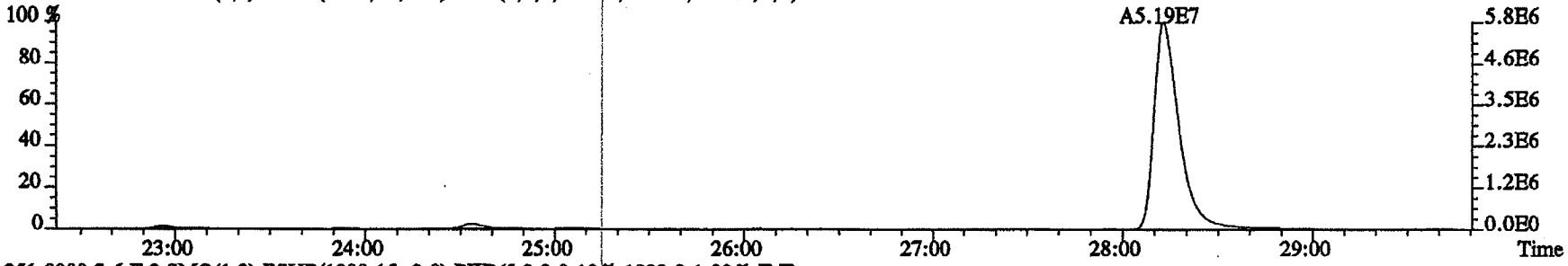


File:04FE104D5 #1-596 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN

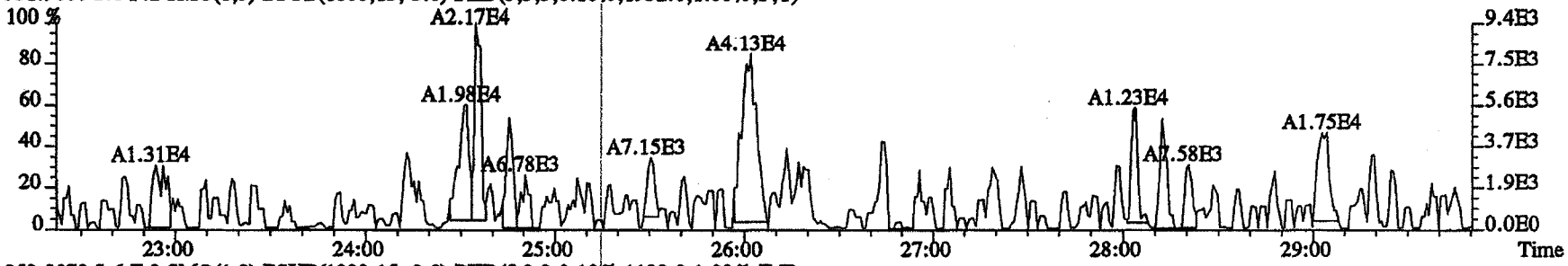
339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5900.0,1.00%,F,T)



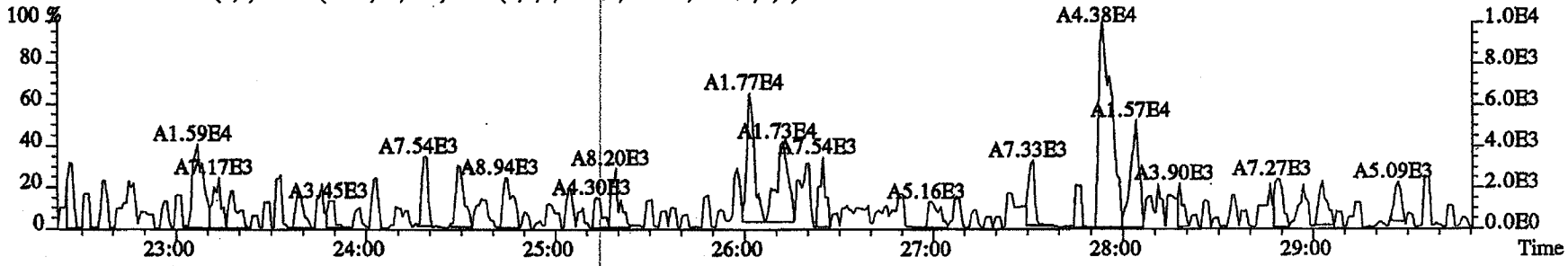
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5352.0,1.00%,F,T)



351.9000 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1932.0,1.00%,F,T)

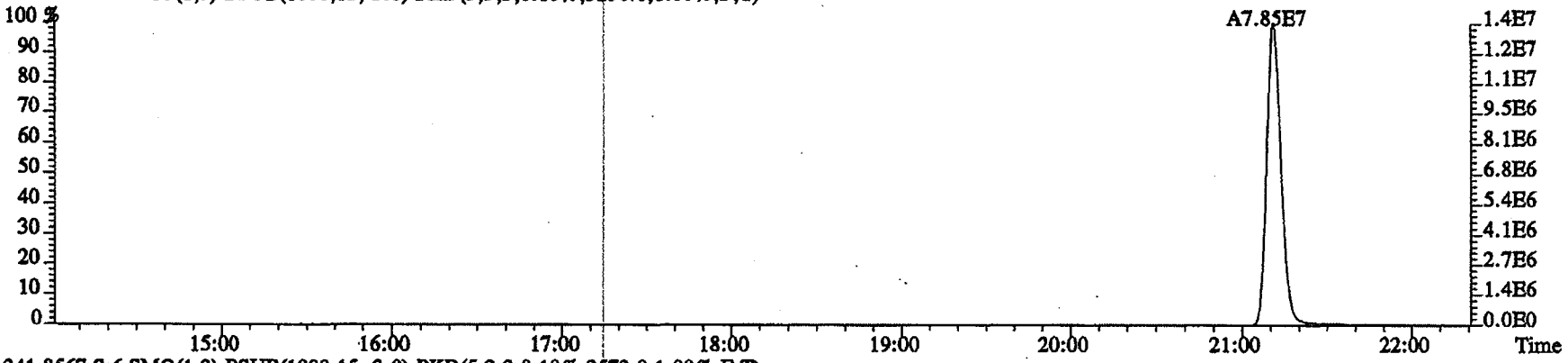


353.8970 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1188.0,1.00%,F,T)

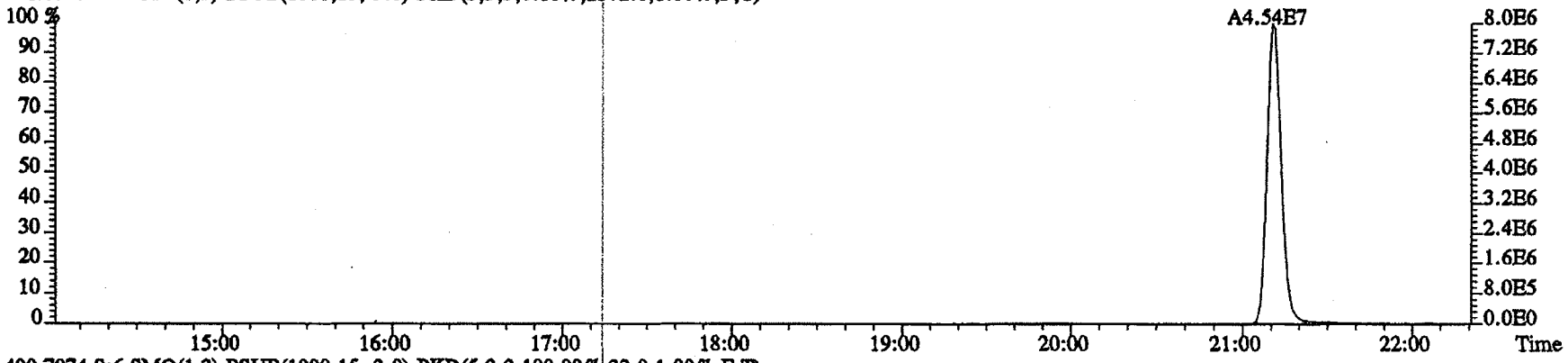


File:04FE104D5 #1-578 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN

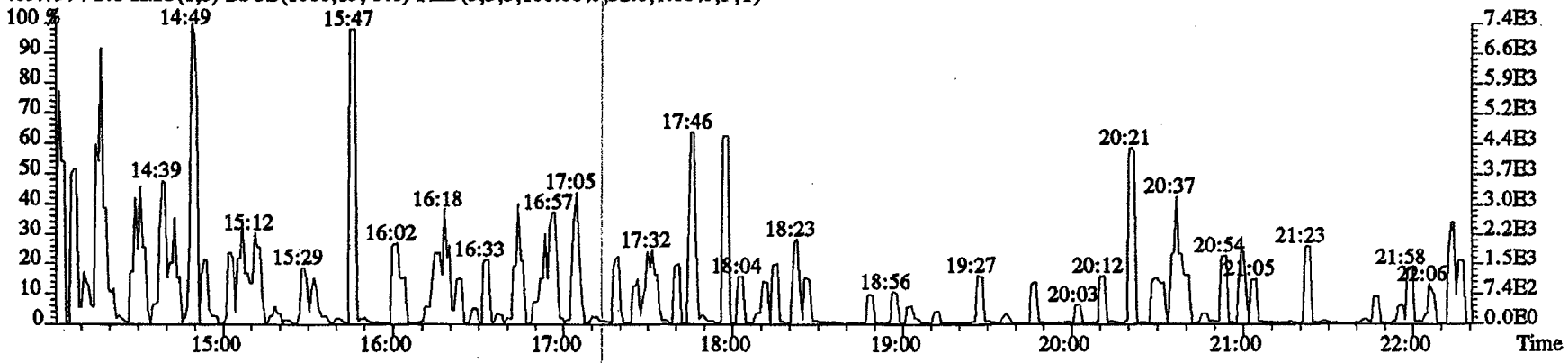
339.8597 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3236.0,1.00%,F,T)



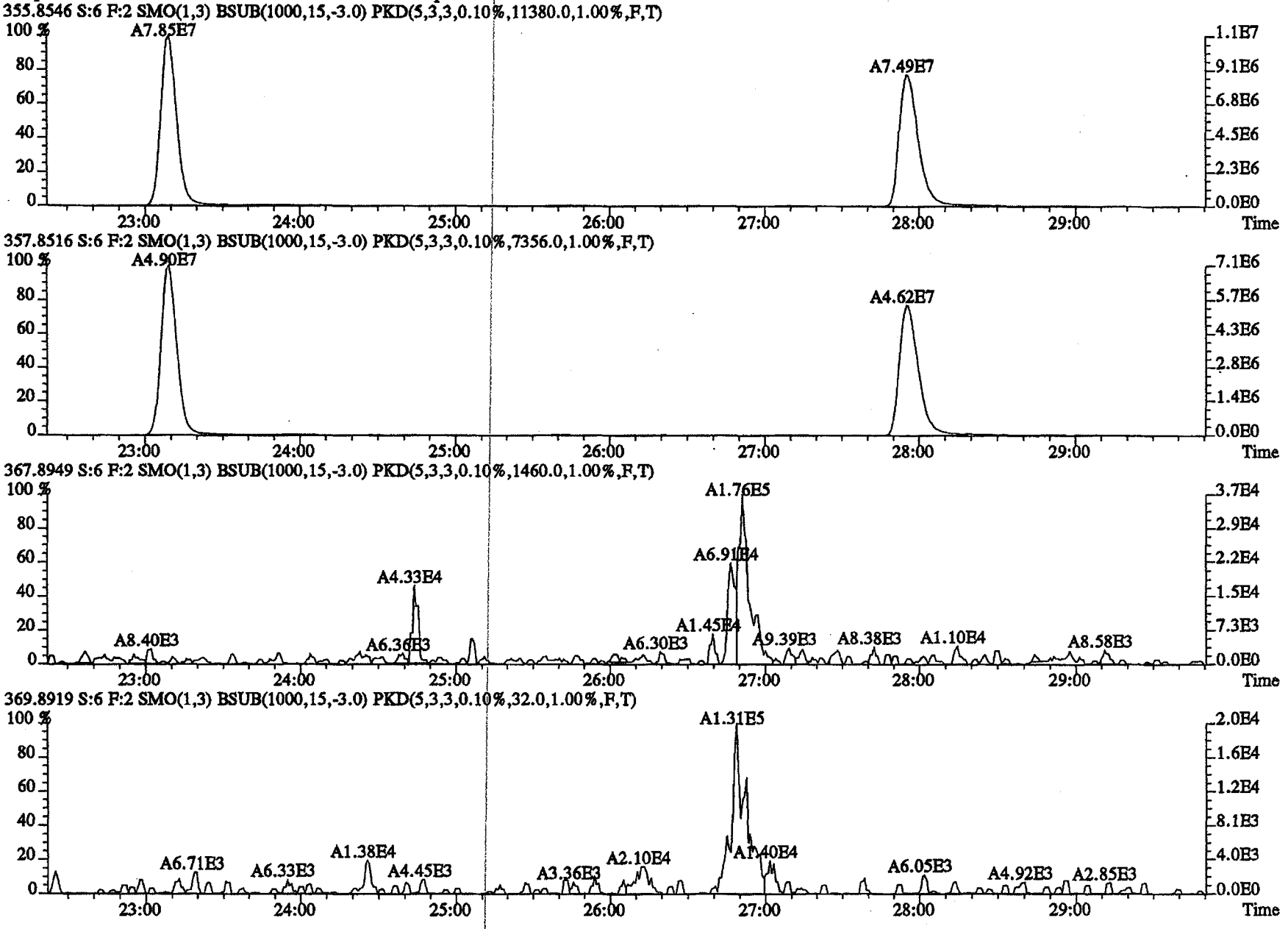
341.8567 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2572.0,1.00%,F,T)



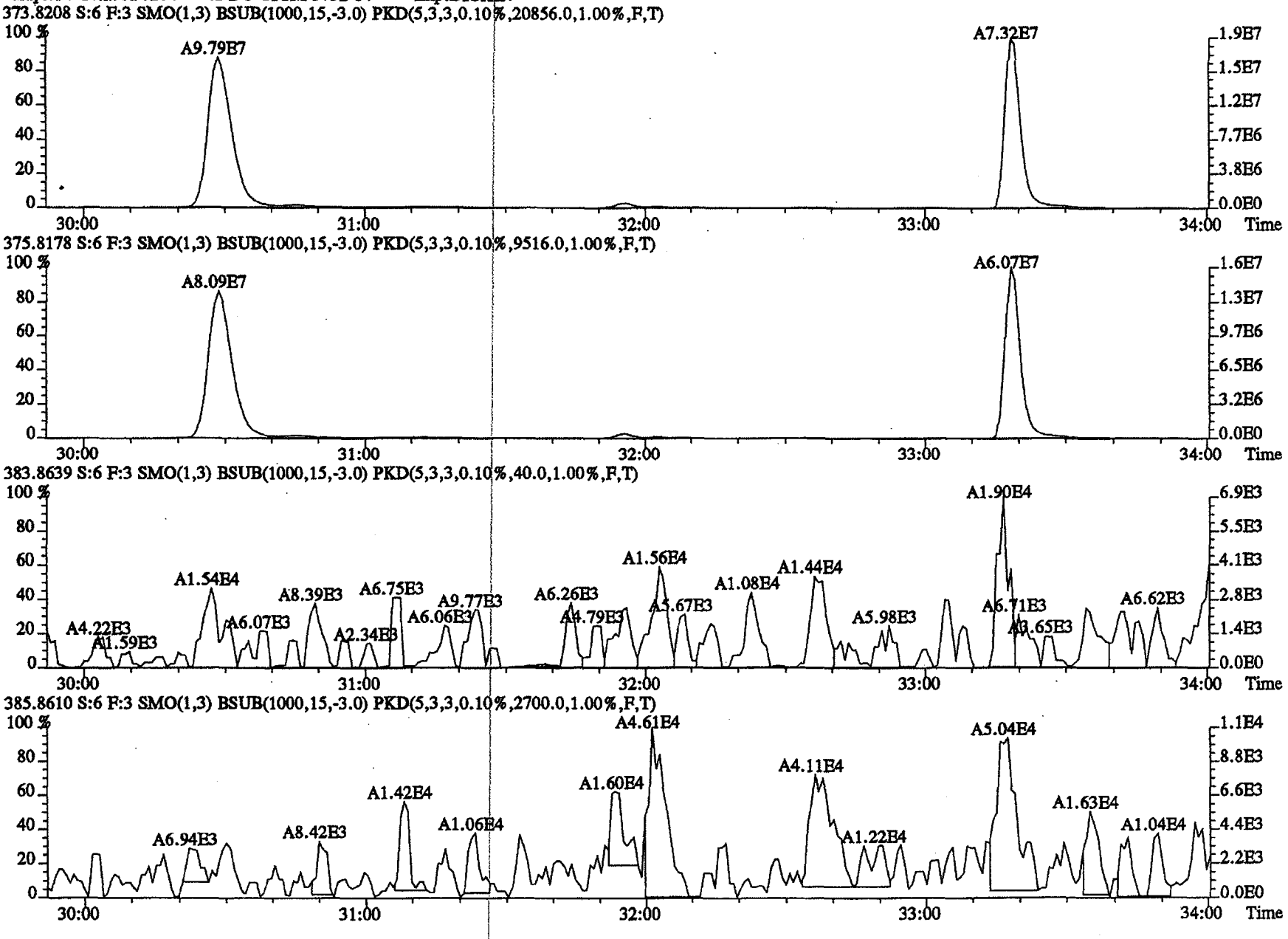
409.7974 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,32.0,1.00%,F,T)



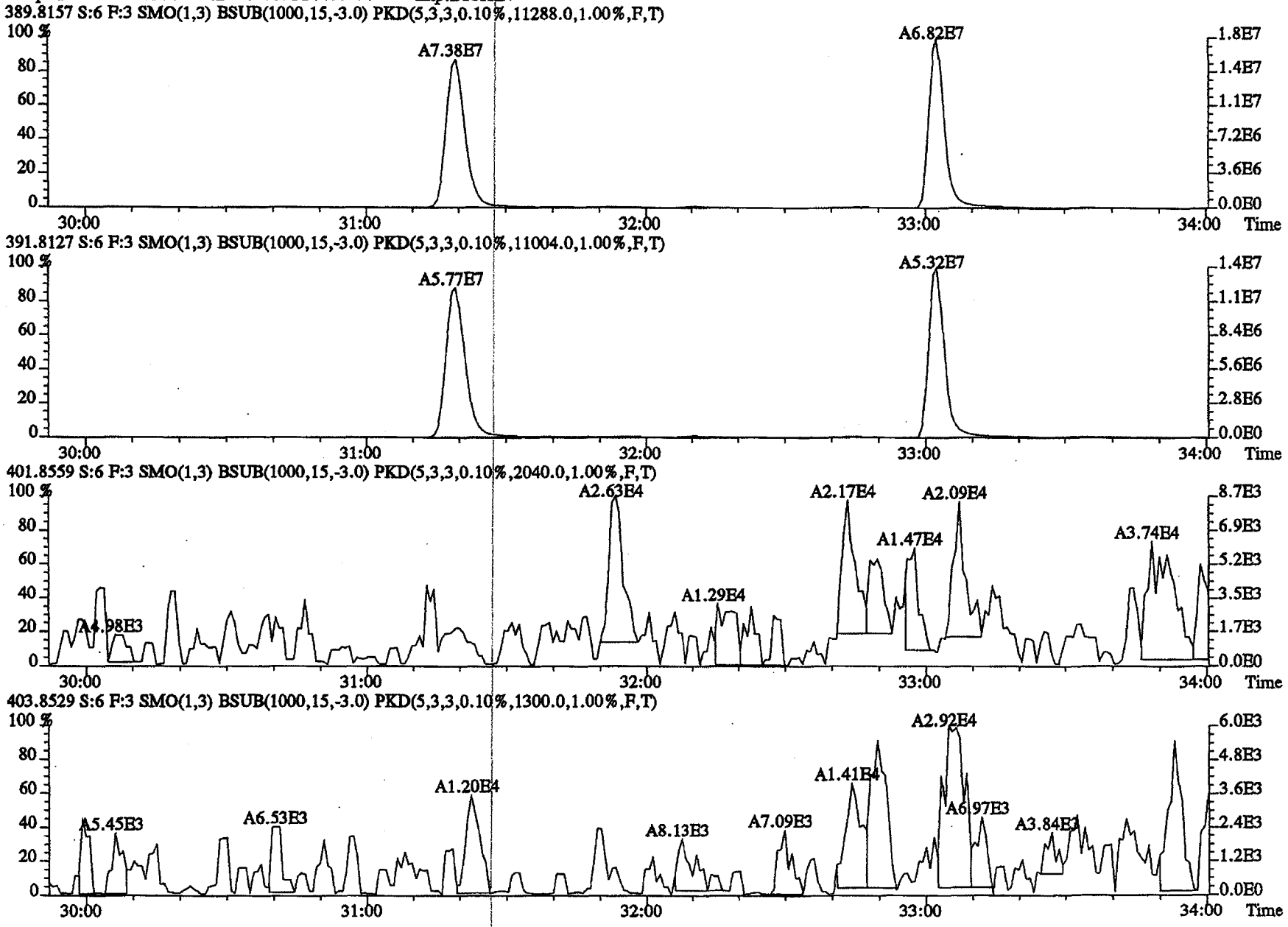
File:04FE104D5 #1-596 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN



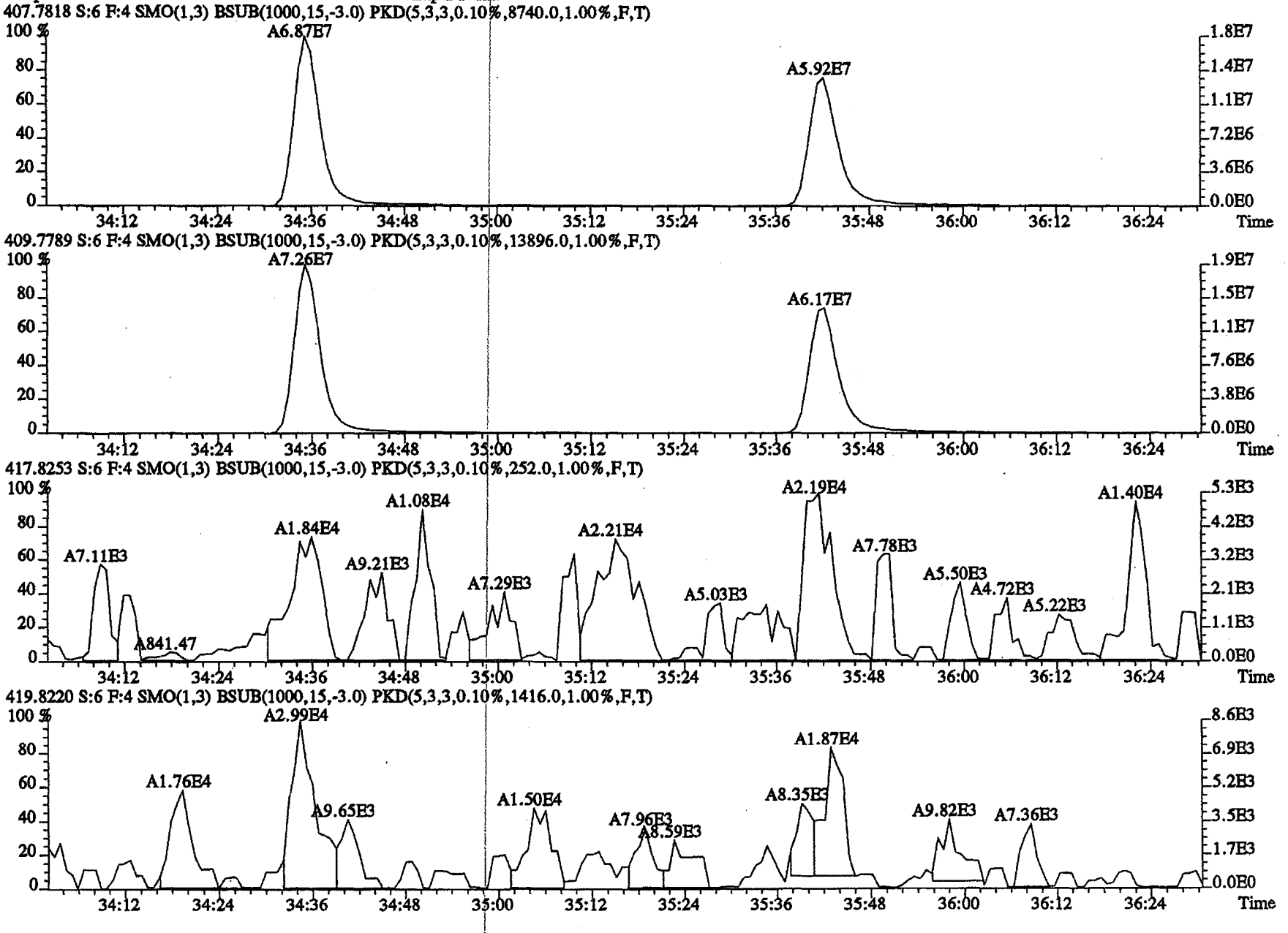
File:04FB104D5 #1-314 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN



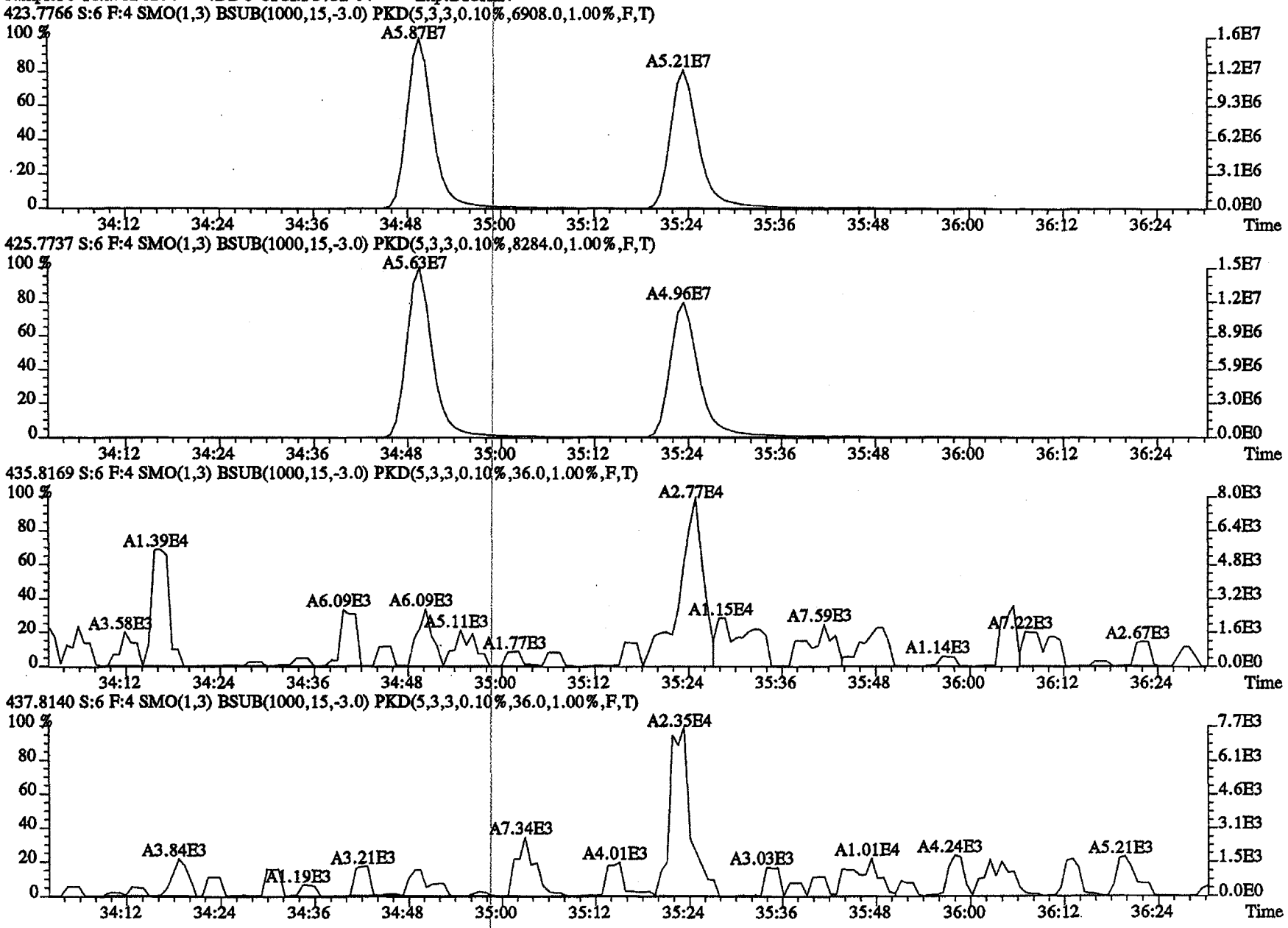
File:04FB104D5 #1-314 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN



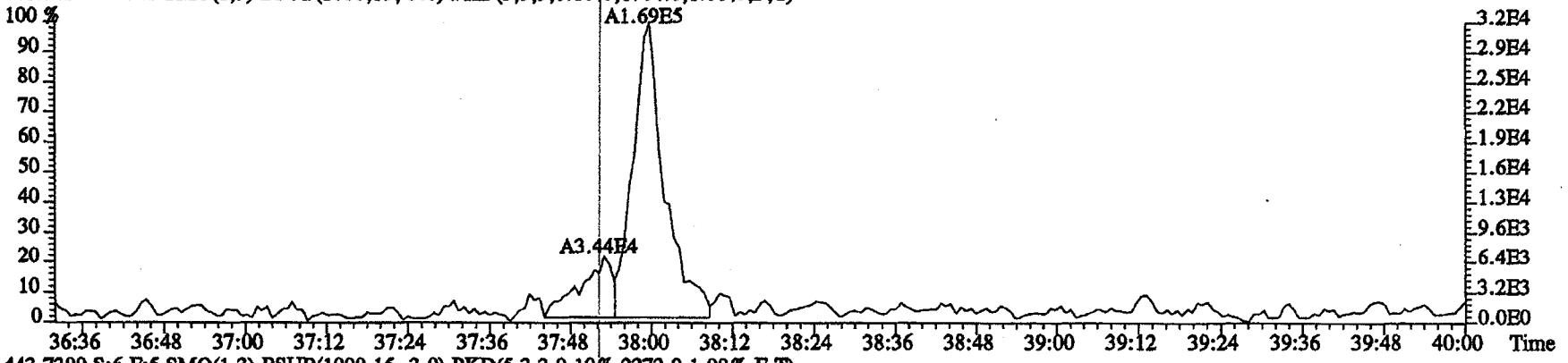
File:04FE104D5 #1-198 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN



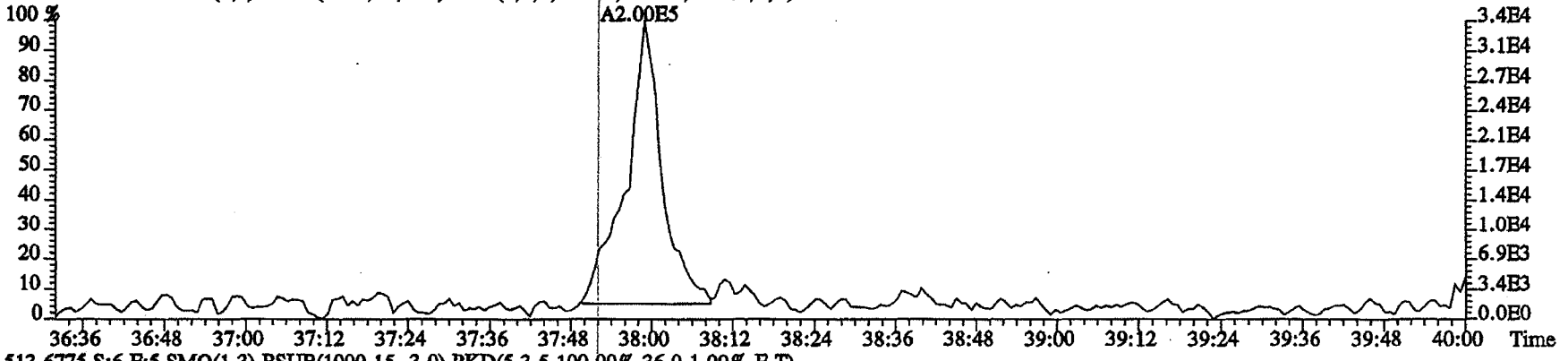
File:04FE104D5 #1-198 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN



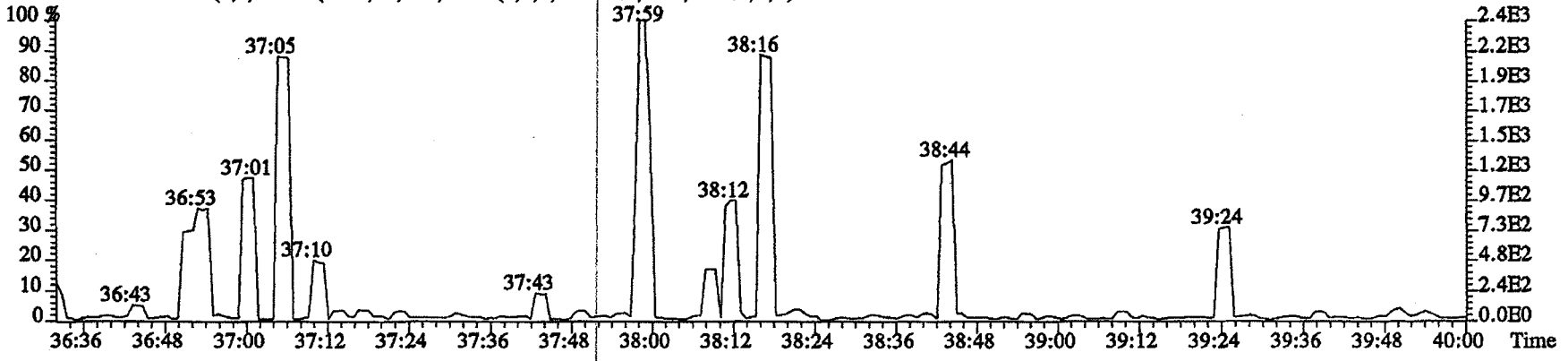
File:04FE104D5 #1-281 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN
441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1704.0,1.00%,F,T)



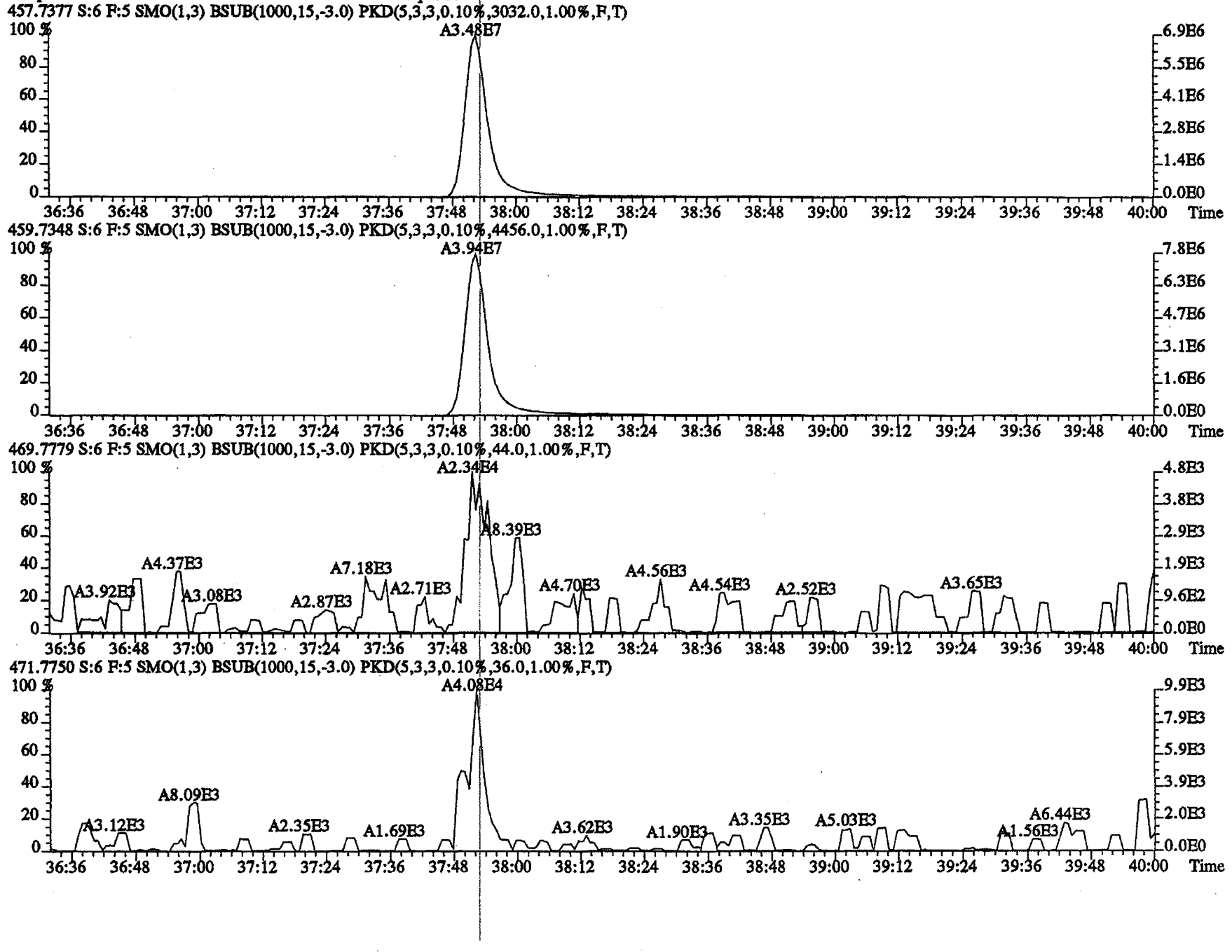
443.7399 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2272.0,1.00%,F,T)



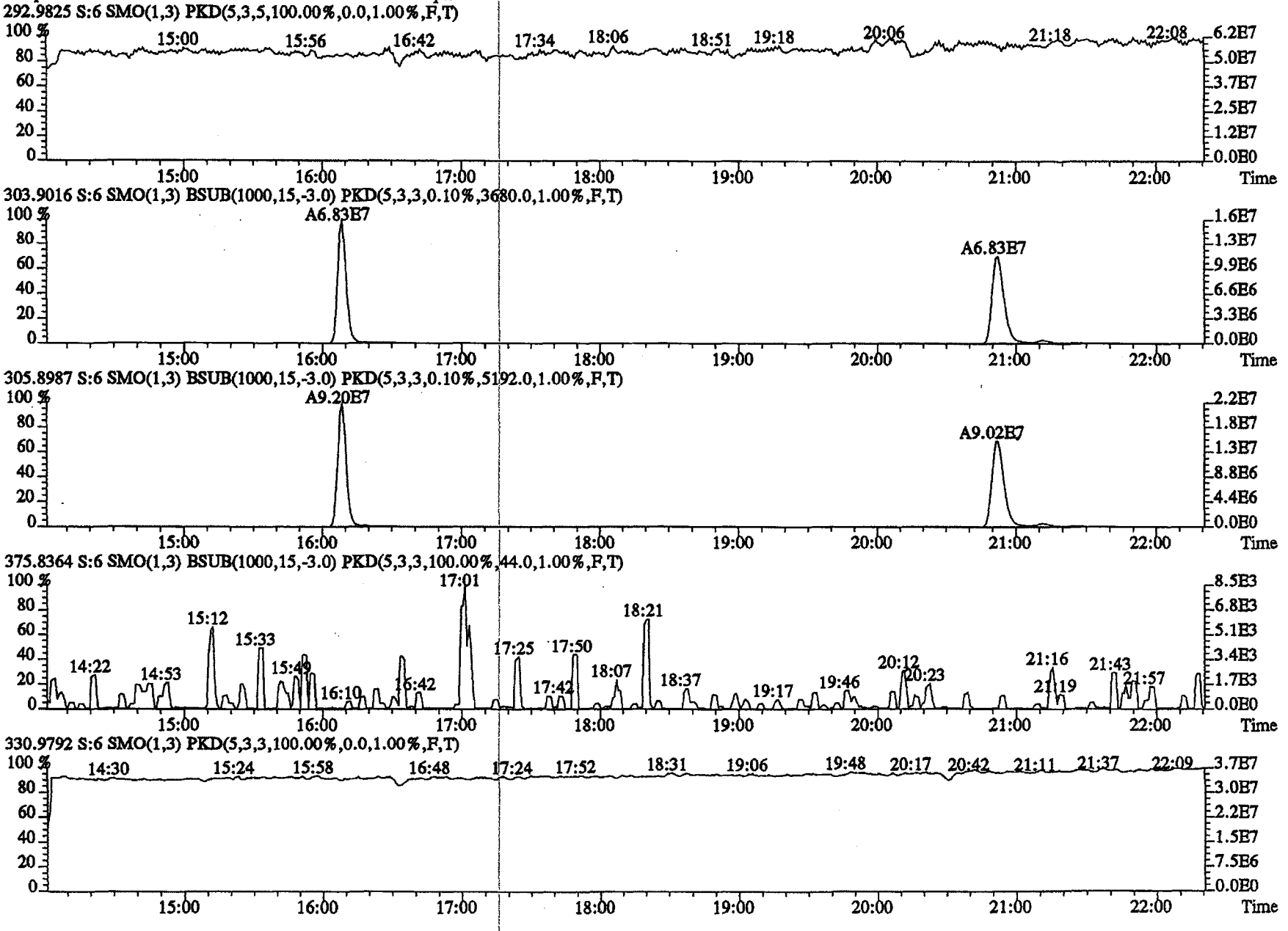
513.6775 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,36.0,1.00%,F,T)



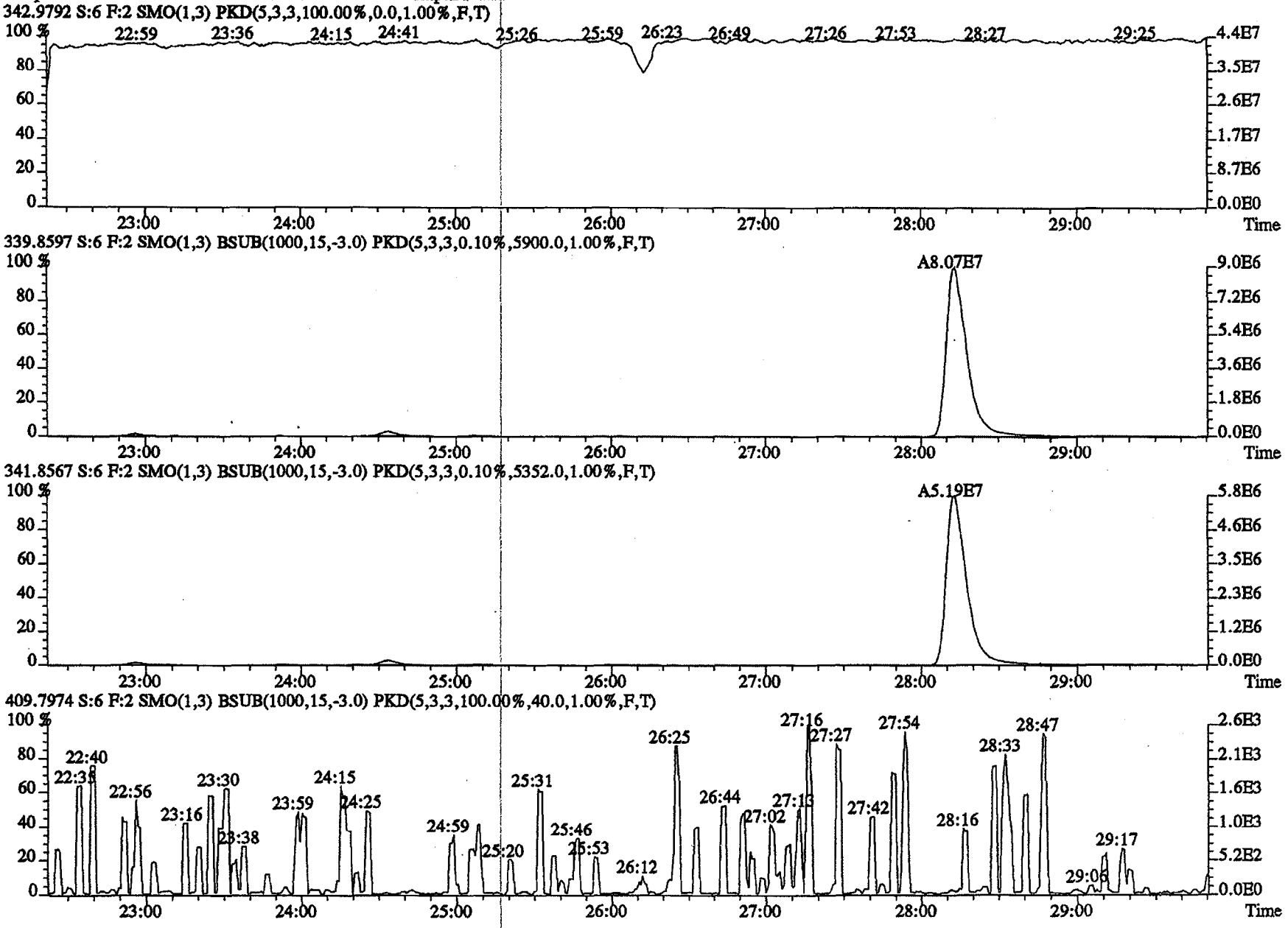
File:04FE104D5 #1-281 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN



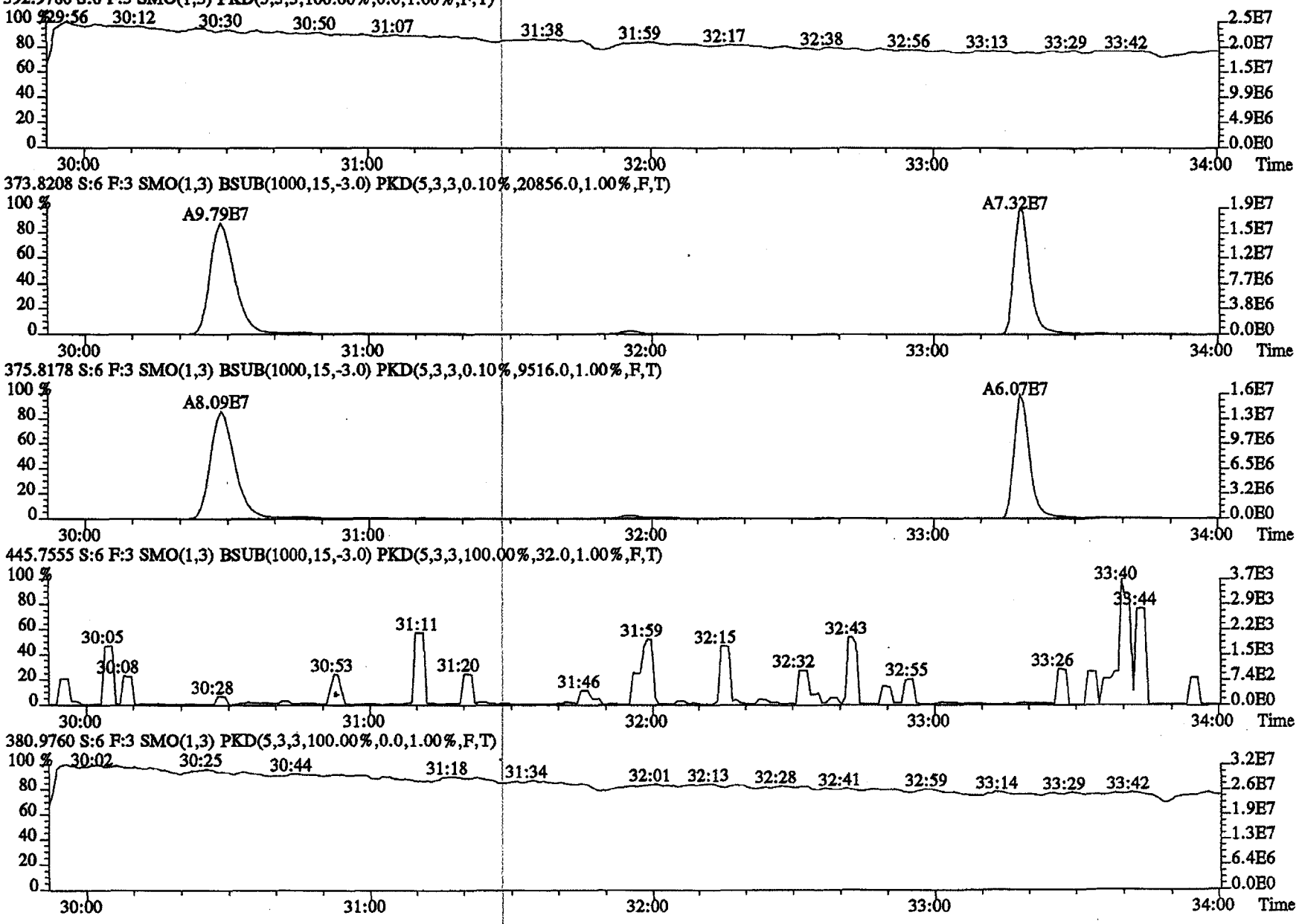
File:04FE104D5 #1-578 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN



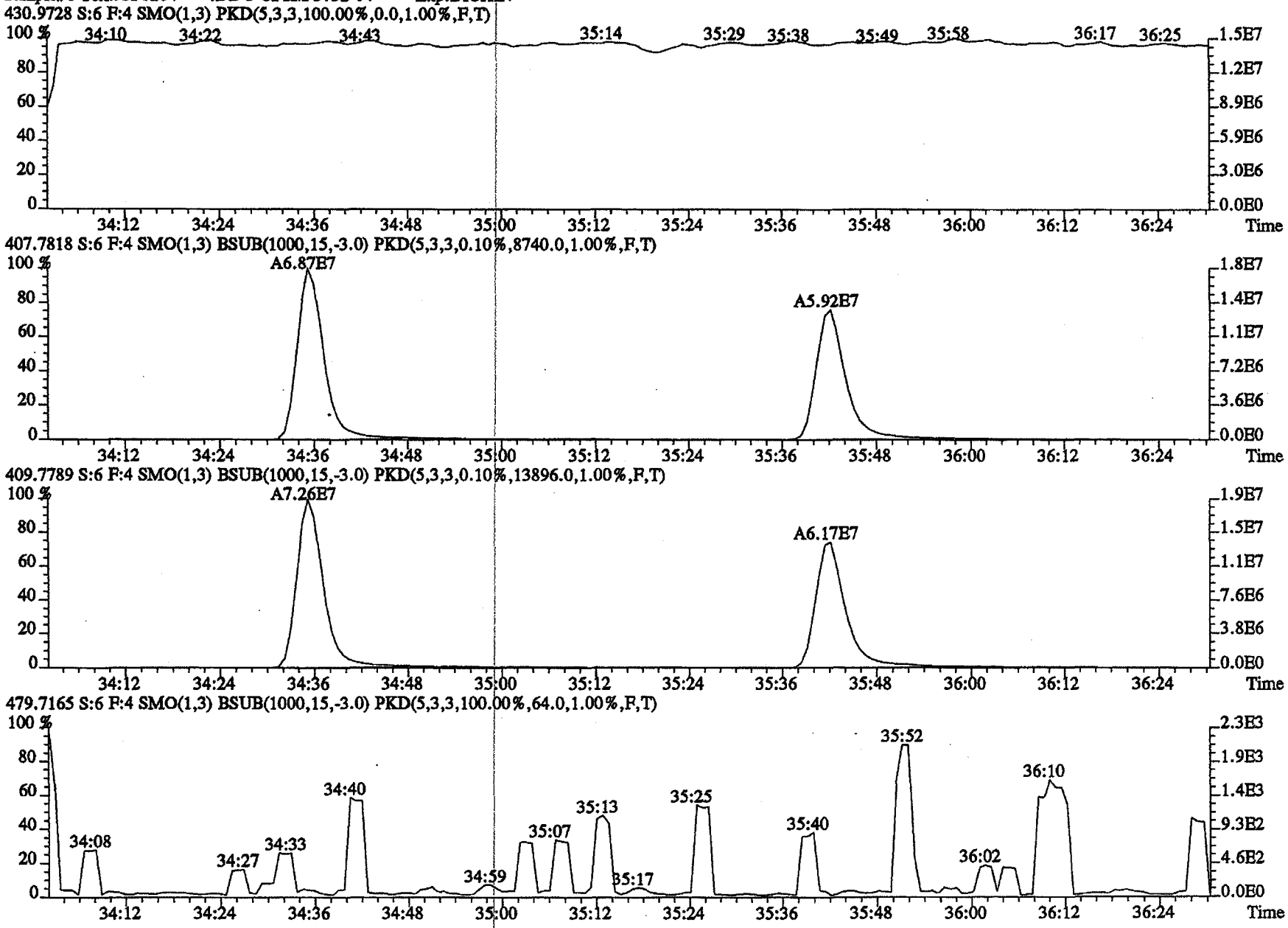
File:04FE104D5 #1-596 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN



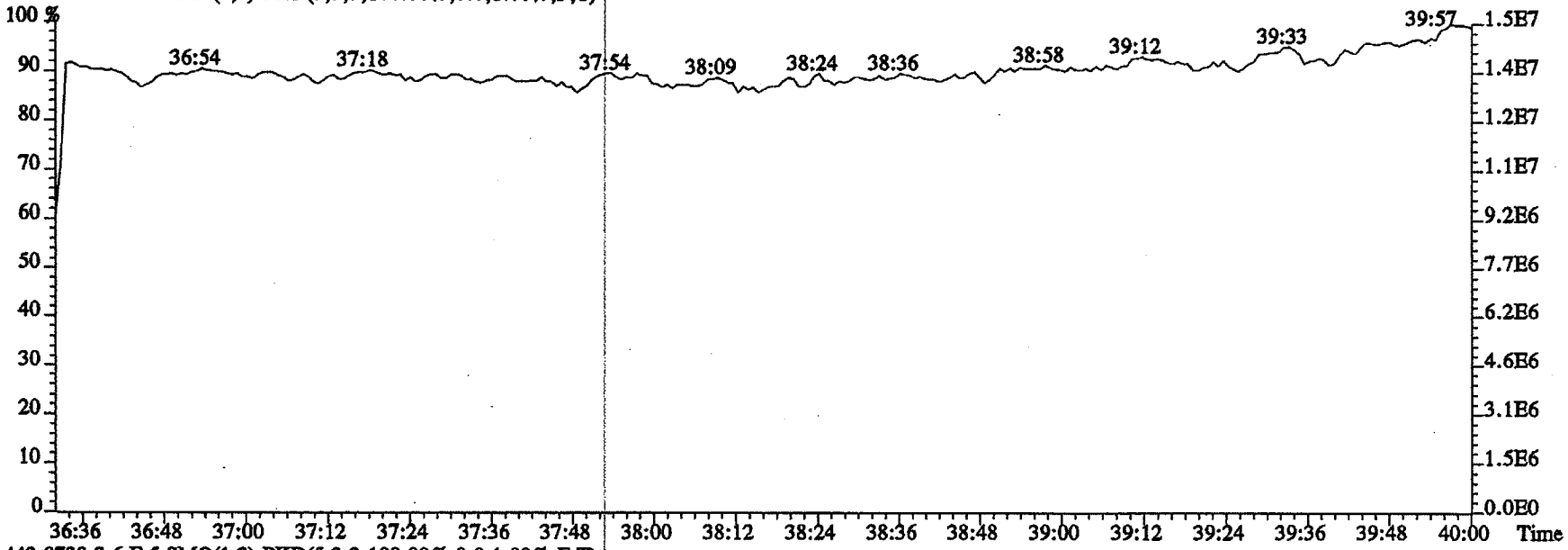
File:04FE104D5 #1-314 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN



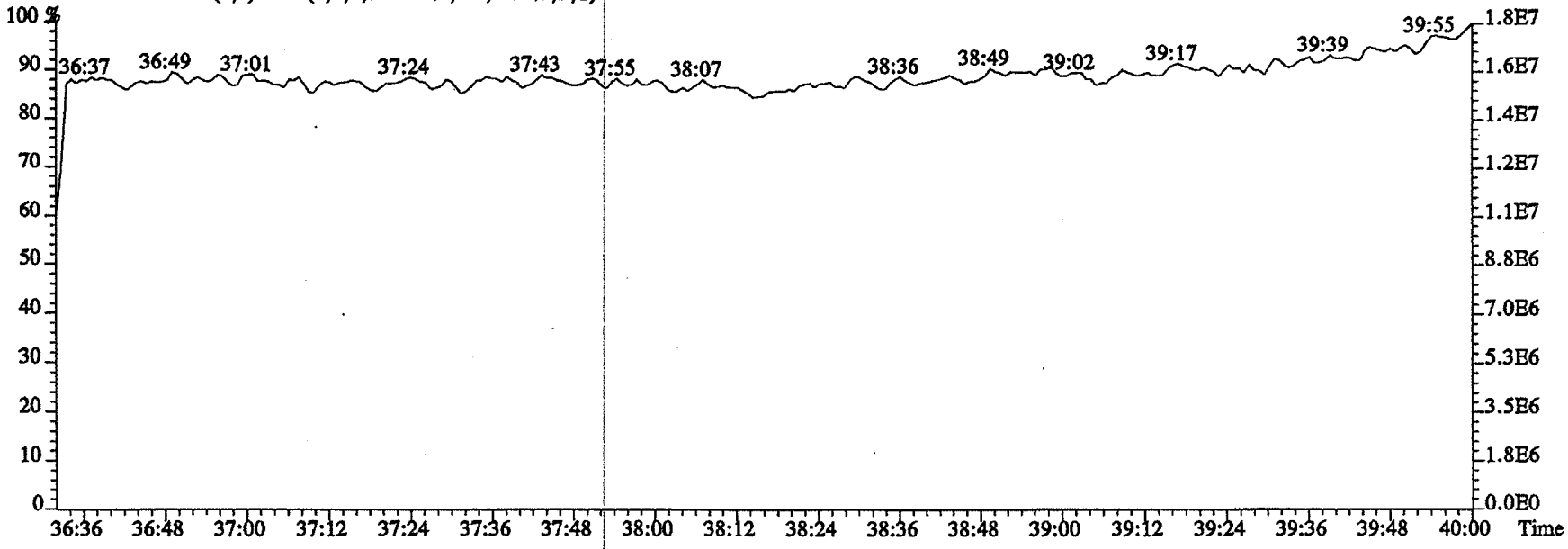
File:04FB104D5 #1-198 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN



File:04FB104D5 #1-281 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN
454.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

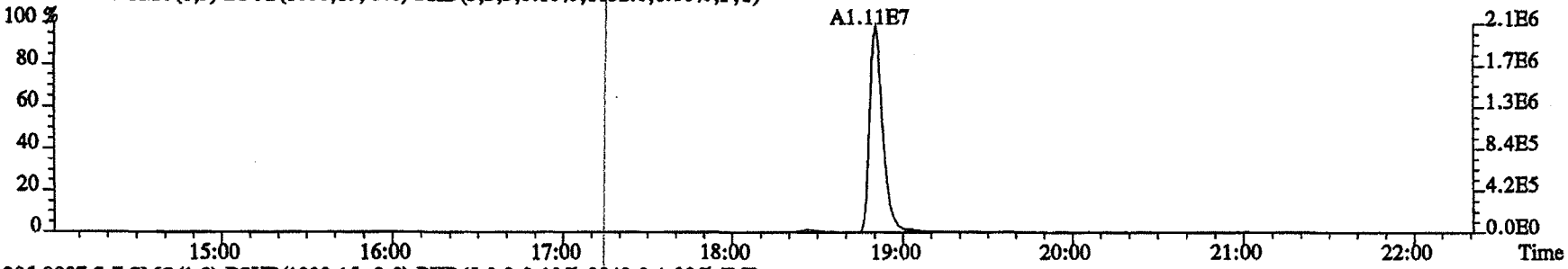


442.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

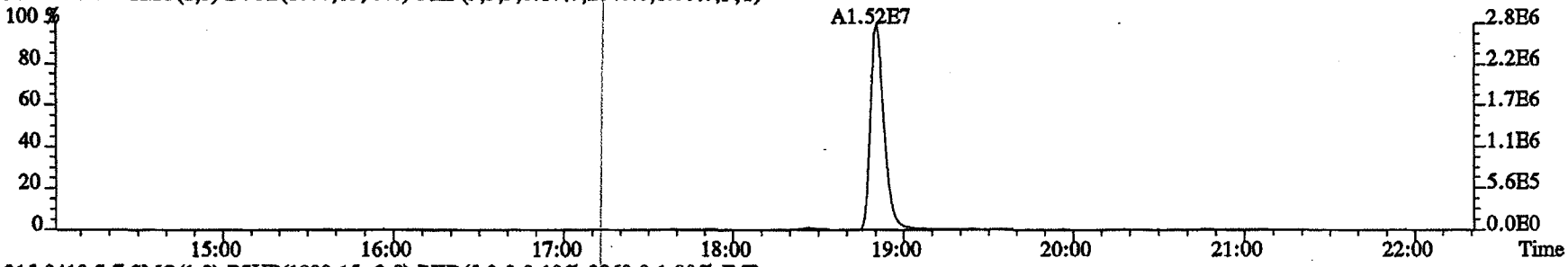


File:04FB104D5 #1-578 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN

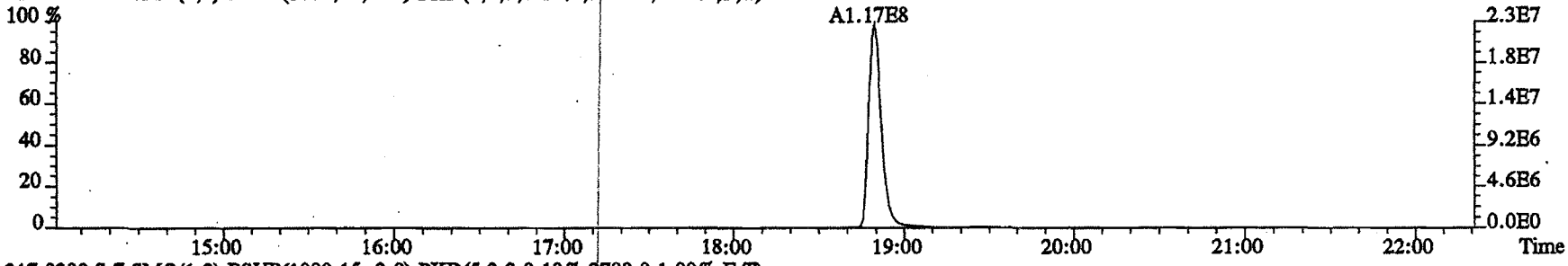
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1652.0,1.00%,F,T)



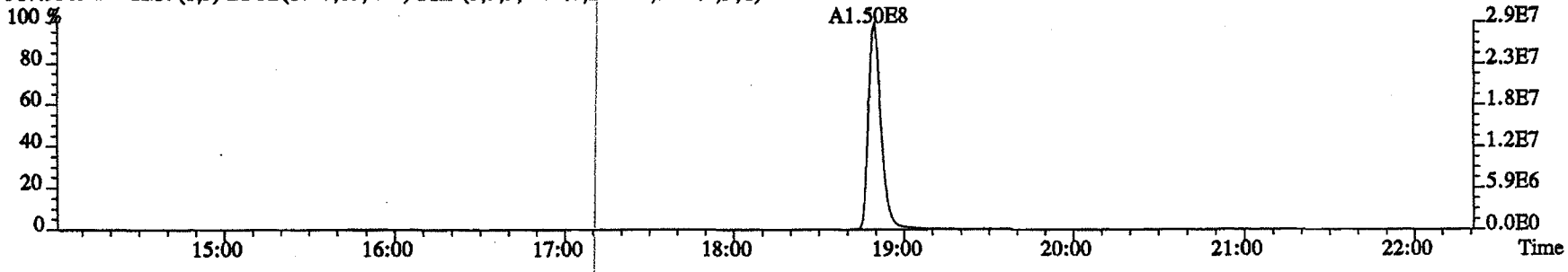
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2848.0,1.00%,F,T)



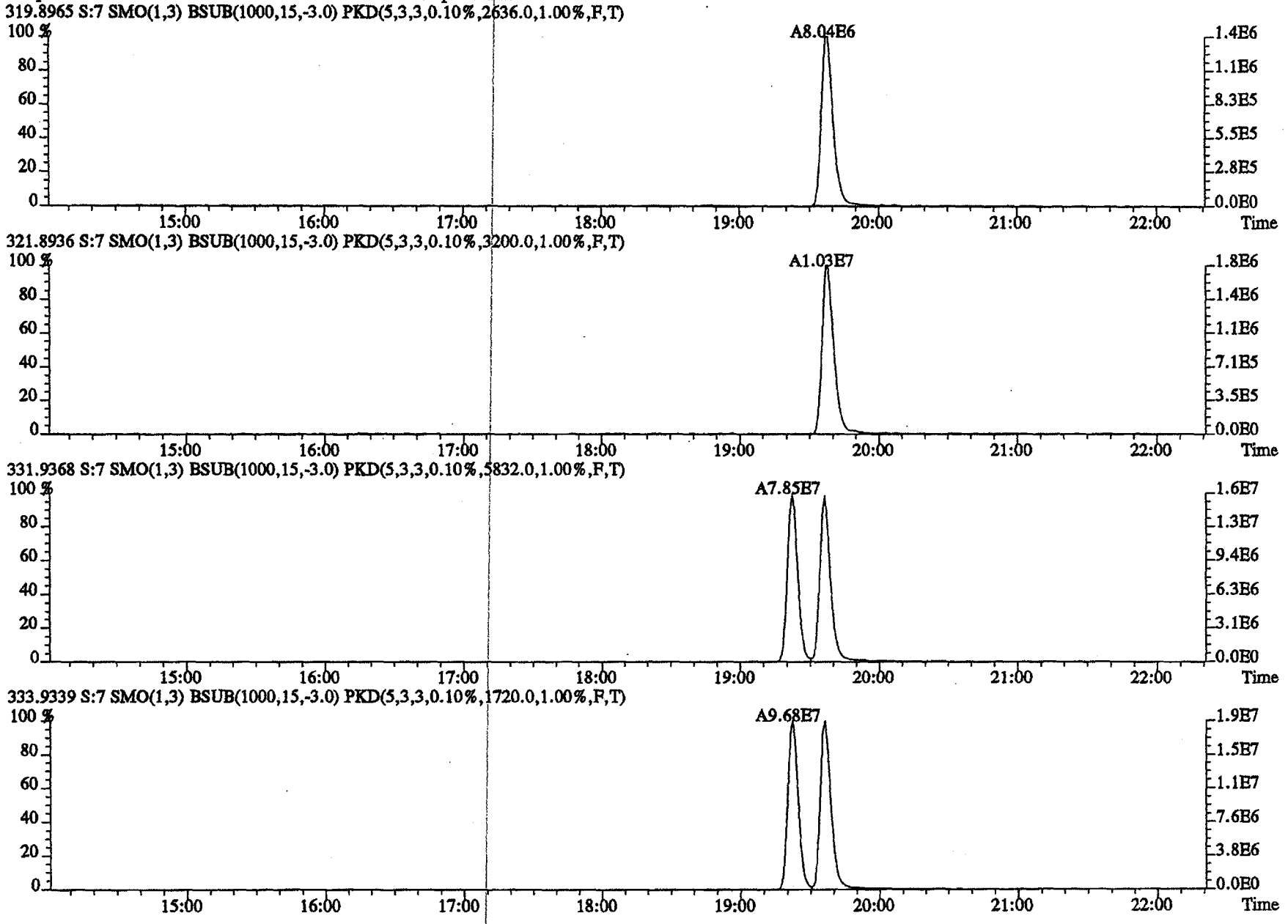
315.9419 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3860.0,1.00%,F,T)



317.9389 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2708.0,1.00%,F,T)

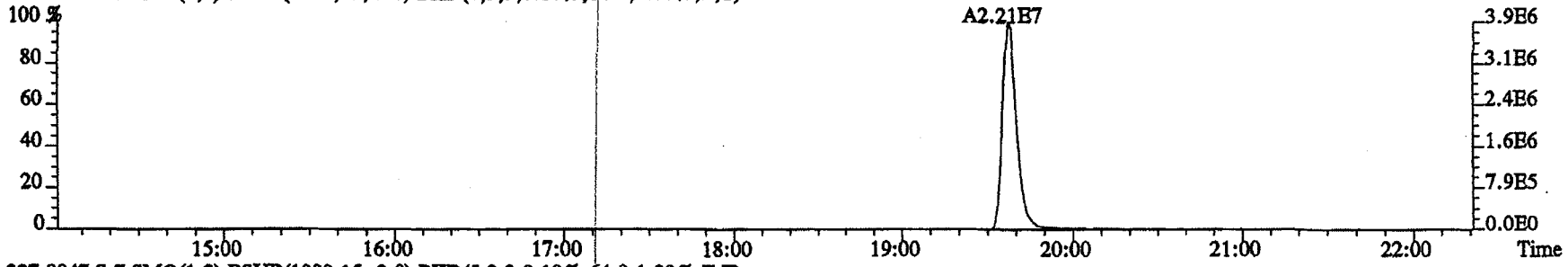


File:04FB104D5 #1-578 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN

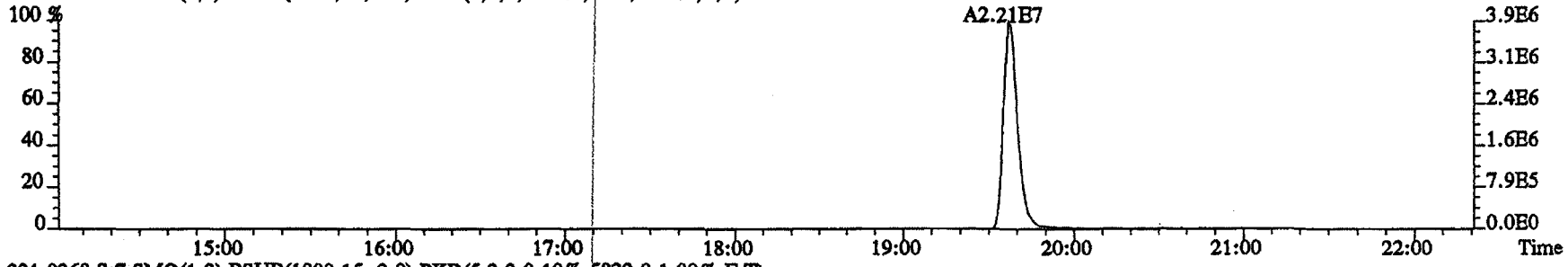


File:04FE104D5 #1-578 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN

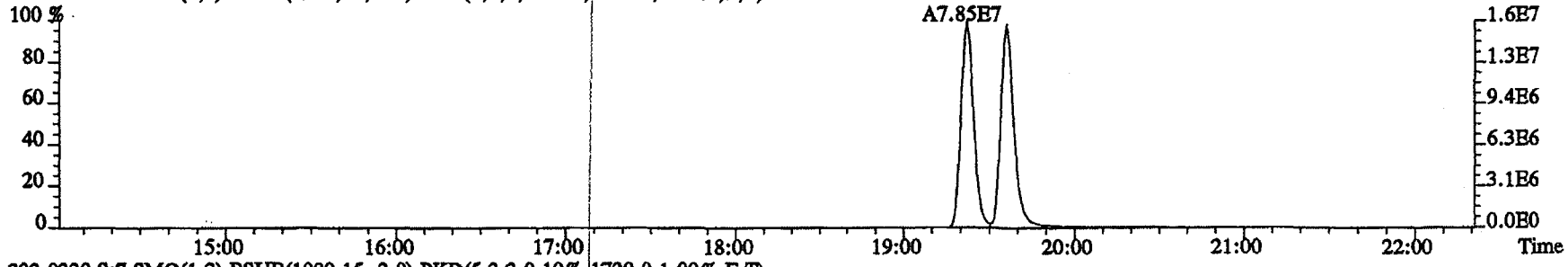
327.8847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T)



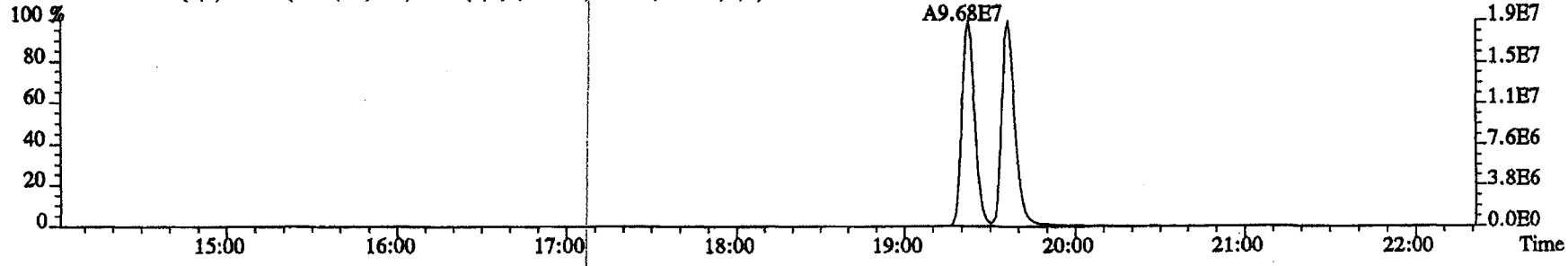
327.8847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T)



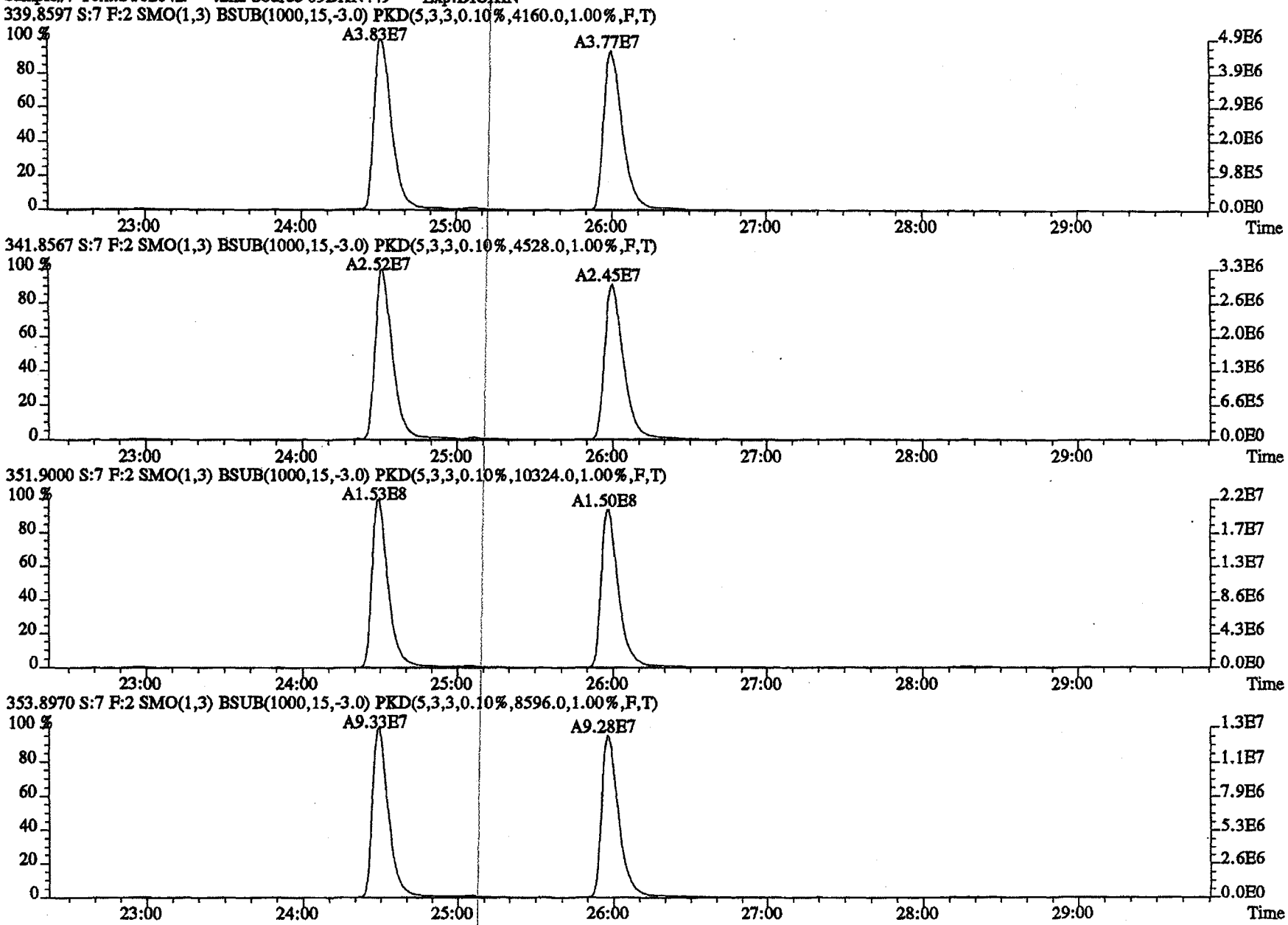
331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5832.0,1.00%,F,T)



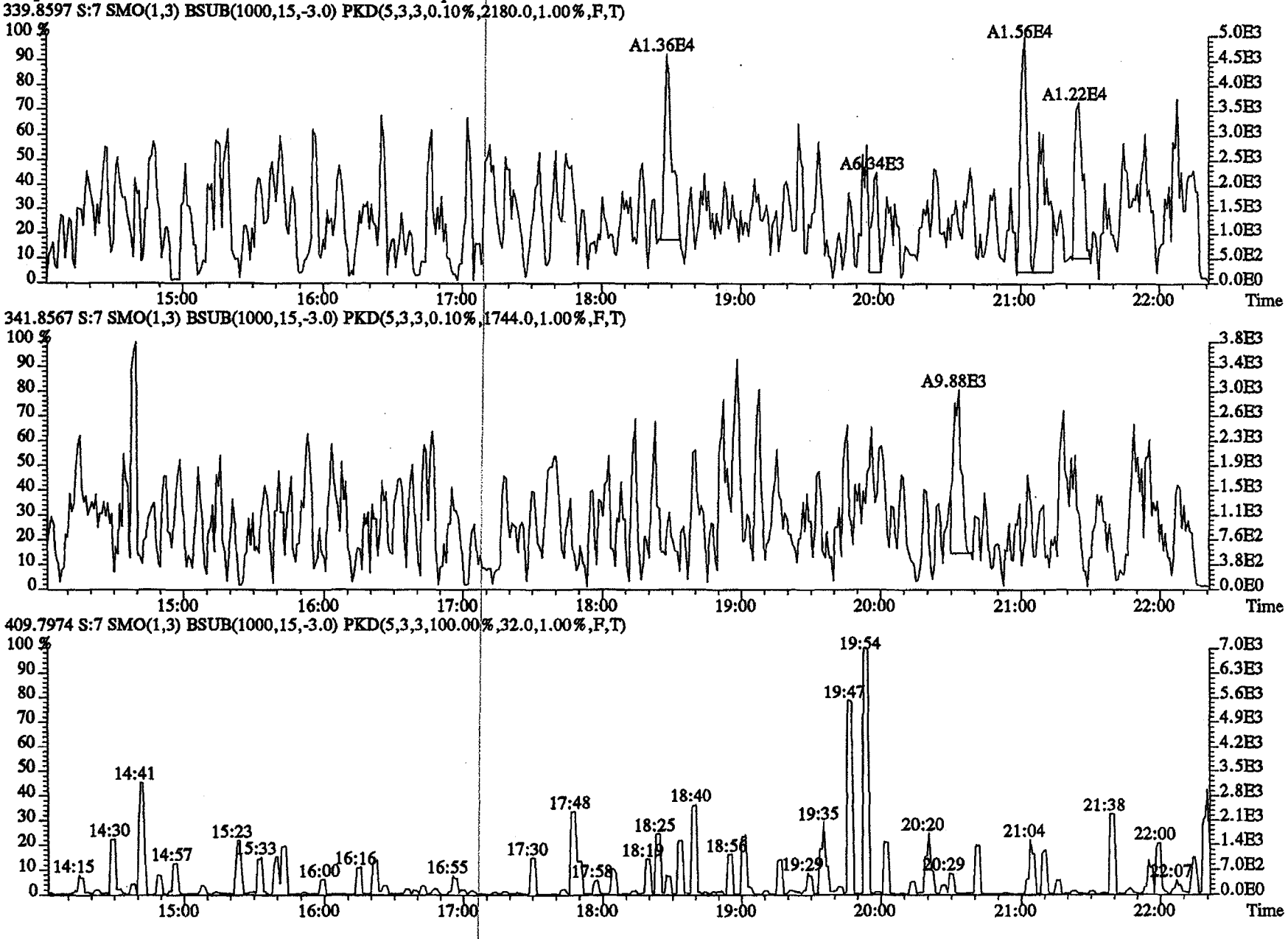
333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1720.0,1.00%,F,T)



File:04FB104D5 #1-596 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN

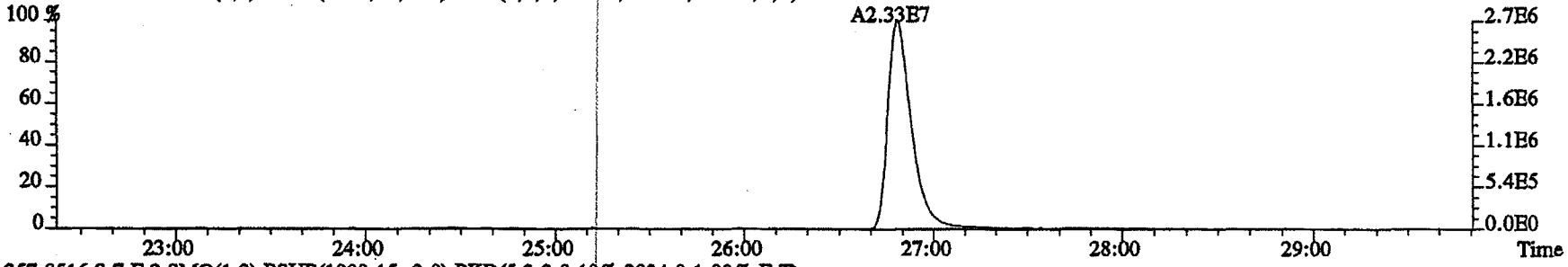


File:04FB104D5 #1-578 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN

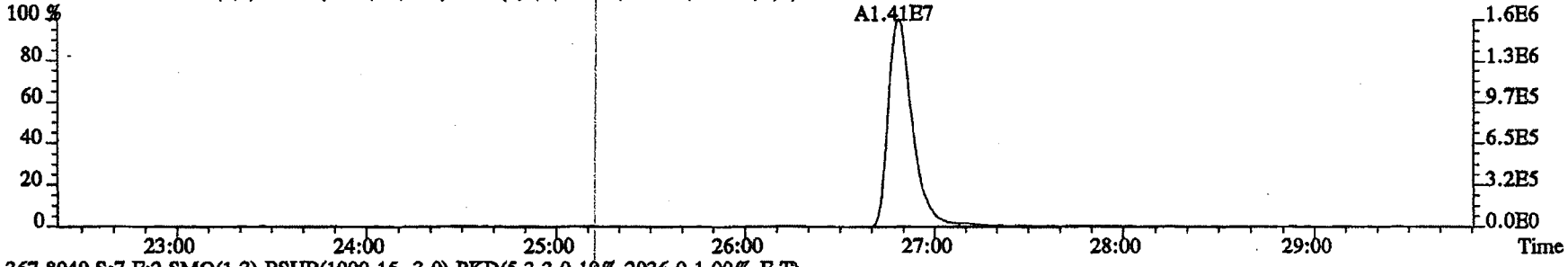


File:04FE104D5 #1-596 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN

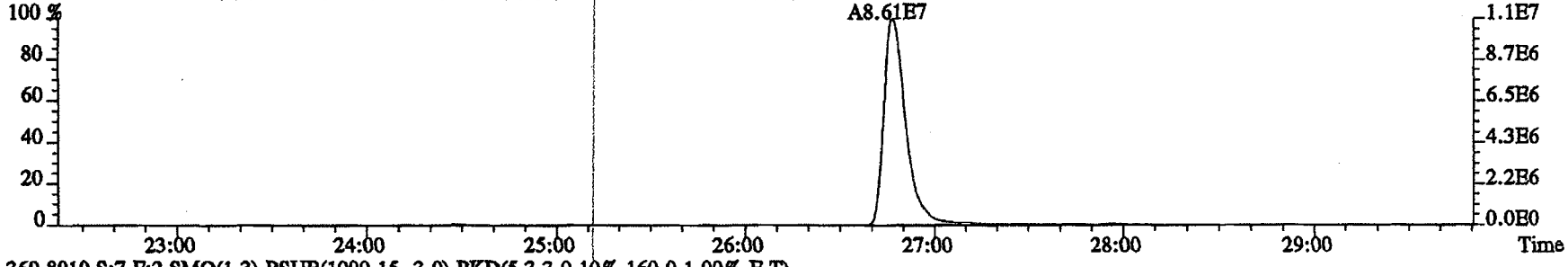
355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3836.0,1.00%,F,T)



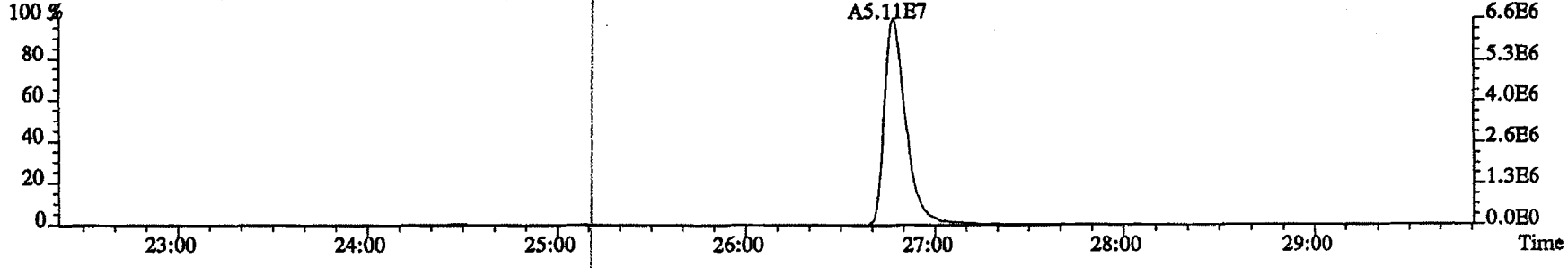
357.8516 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2924.0,1.00%,F,T)



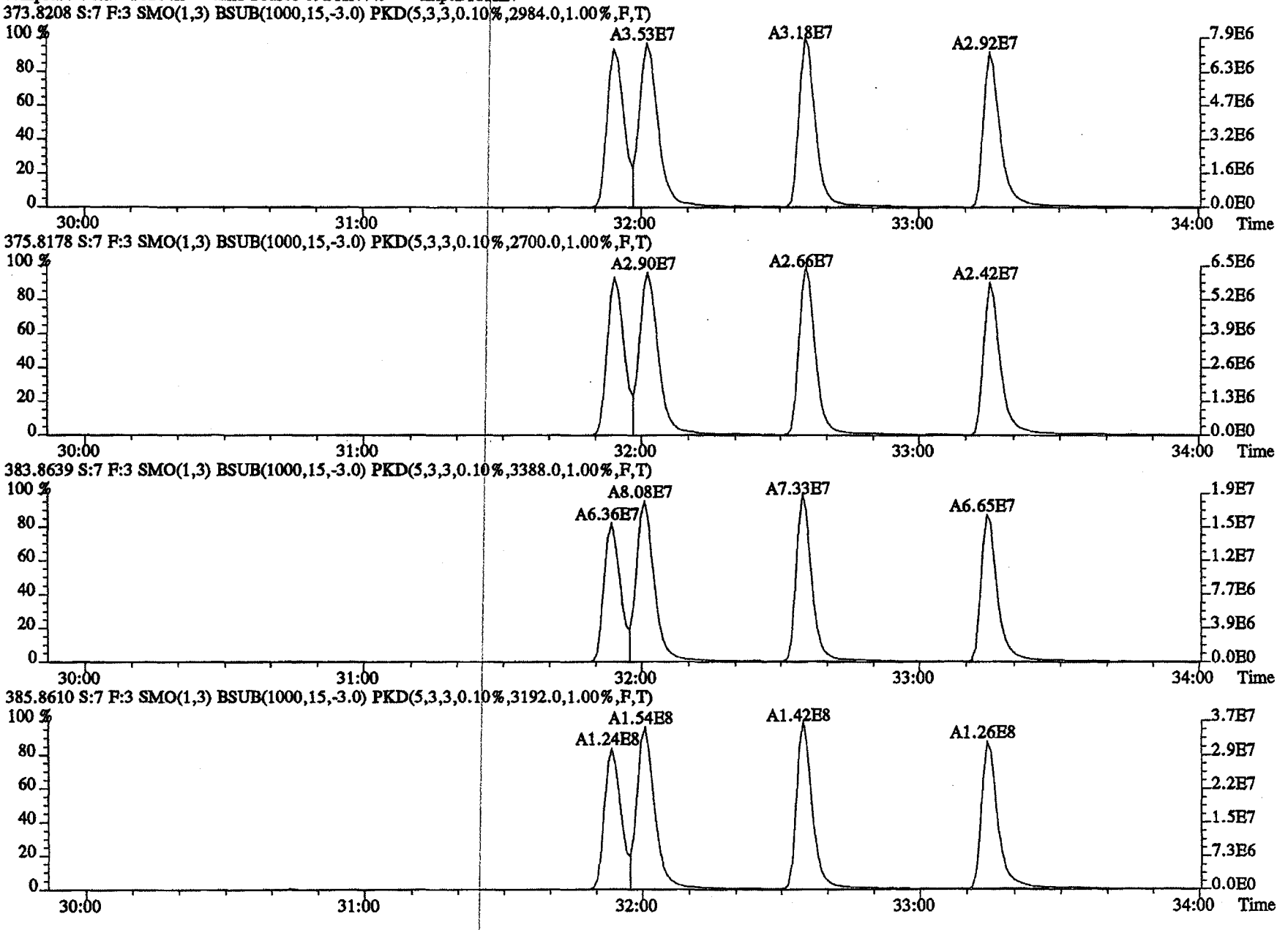
367.8949 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2036.0,1.00%,F,T)



369.8919 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,160.0,1.00%,F,T)

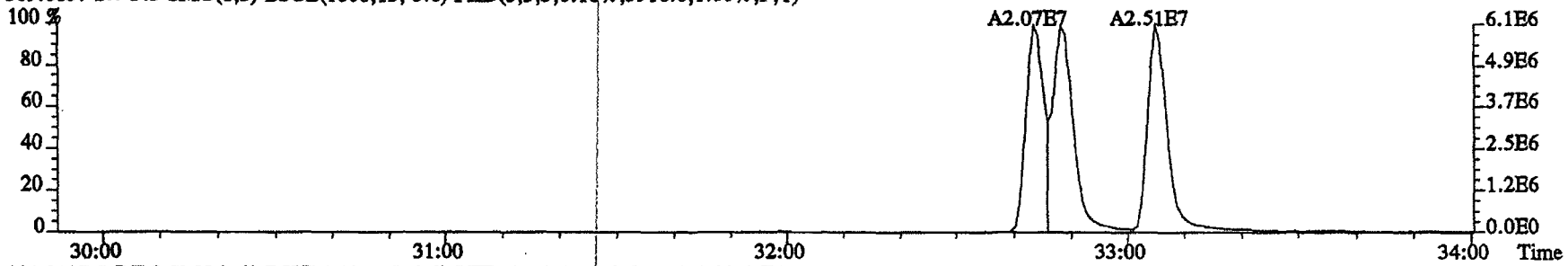


File:04FE104D5 #1-314 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN

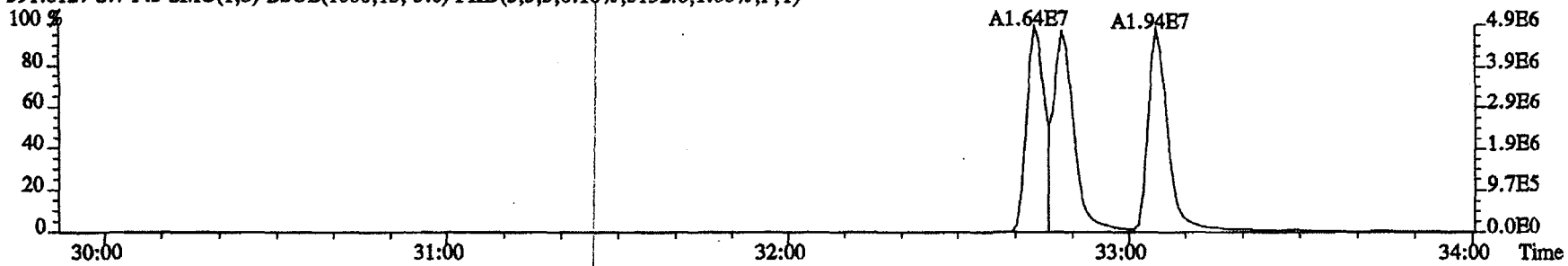


File:04FE104D5 #1-314 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN

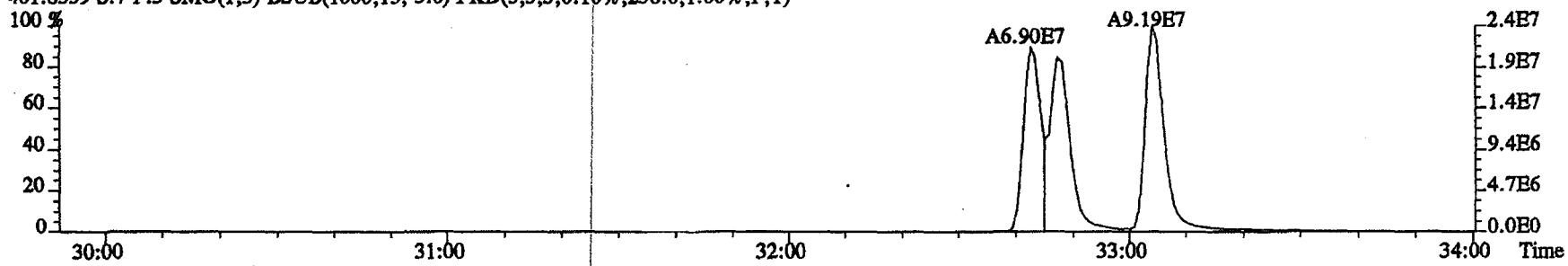
389.8157 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3916.0,1.00%,F,T)



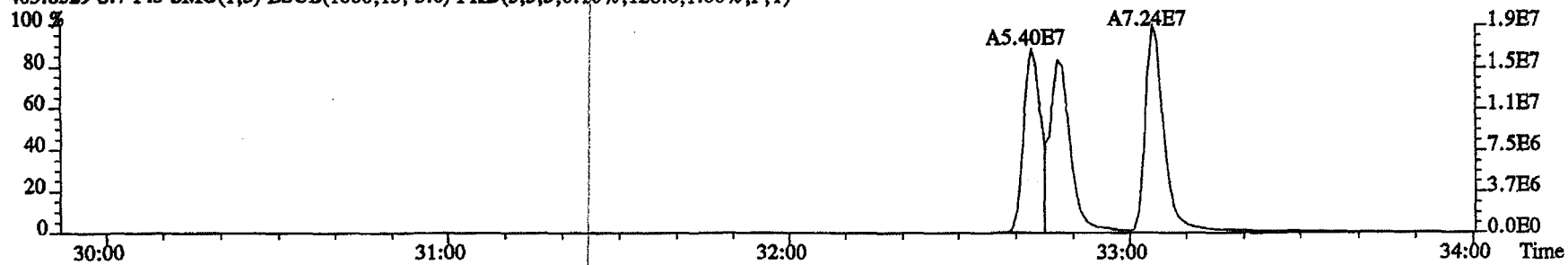
391.8127 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5132.0,1.00%,F,T)



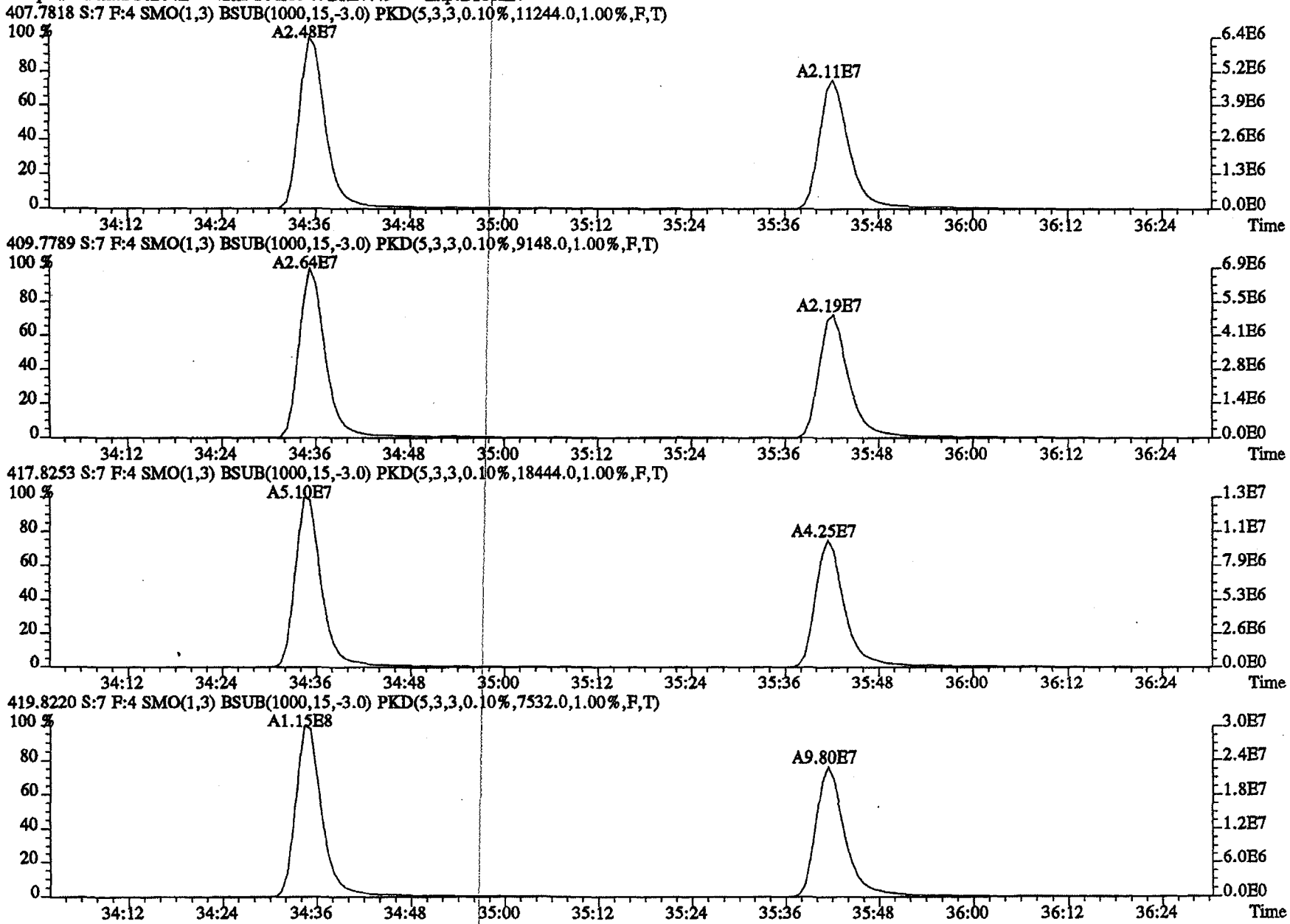
401.8559 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,236.0,1.00%,F,T)



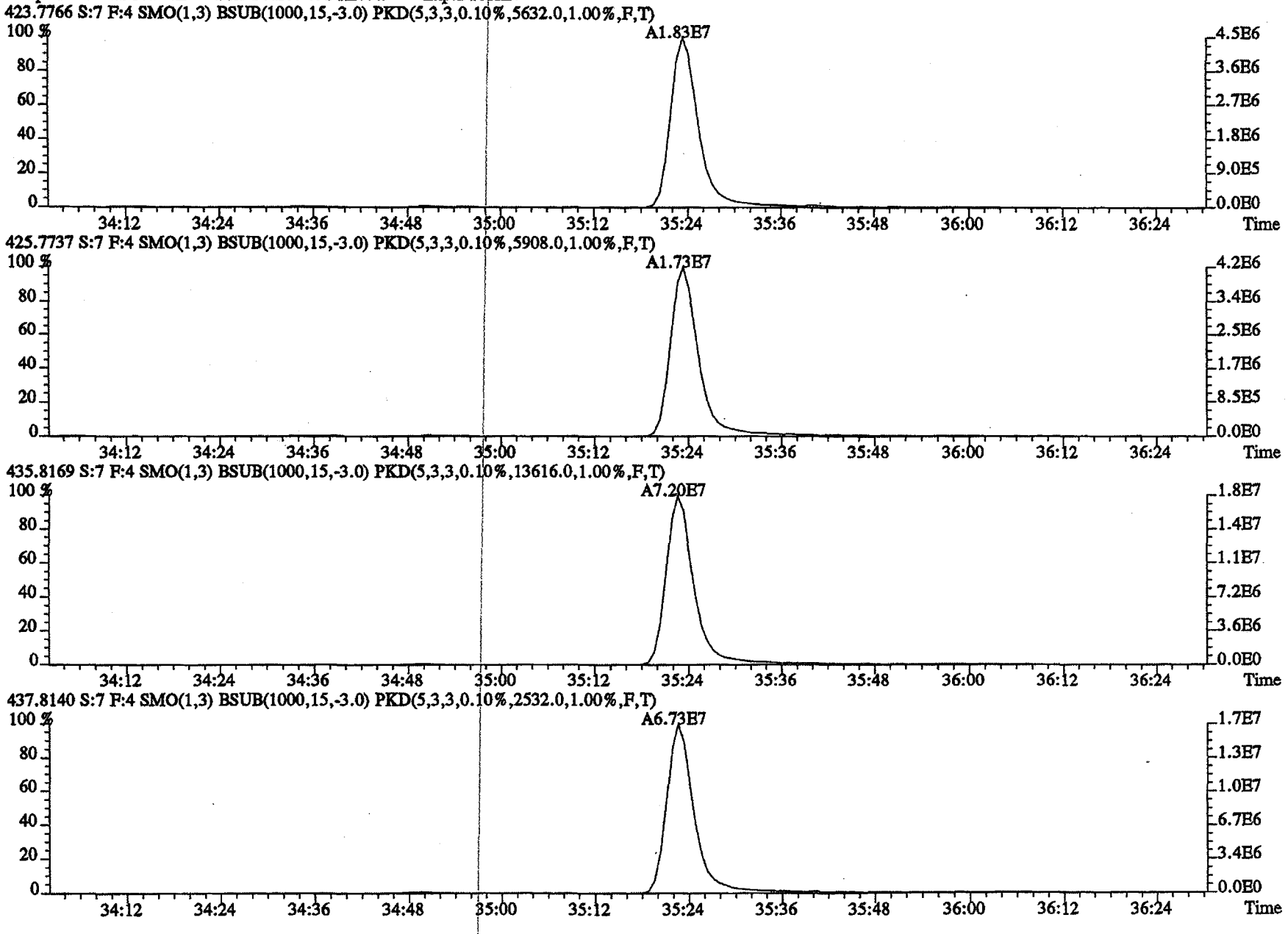
403.8529 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,128.0,1.00%,F,T)



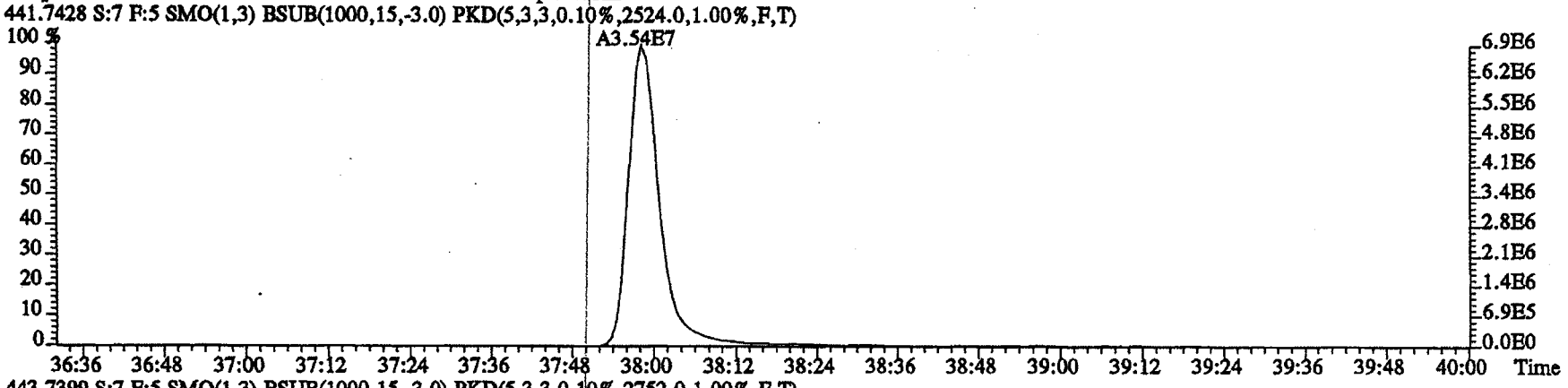
File:04FE104D5 #1-198 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN

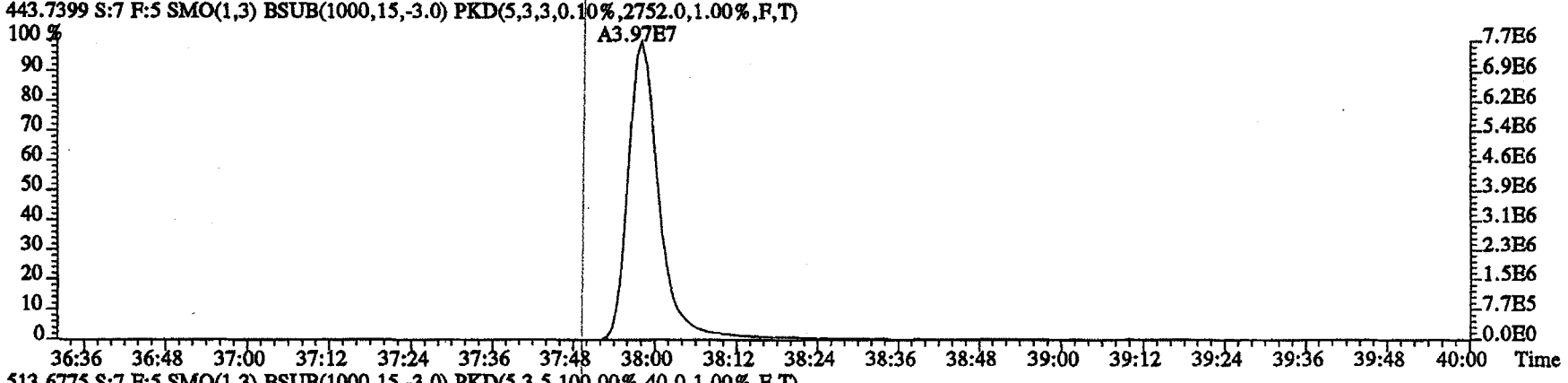


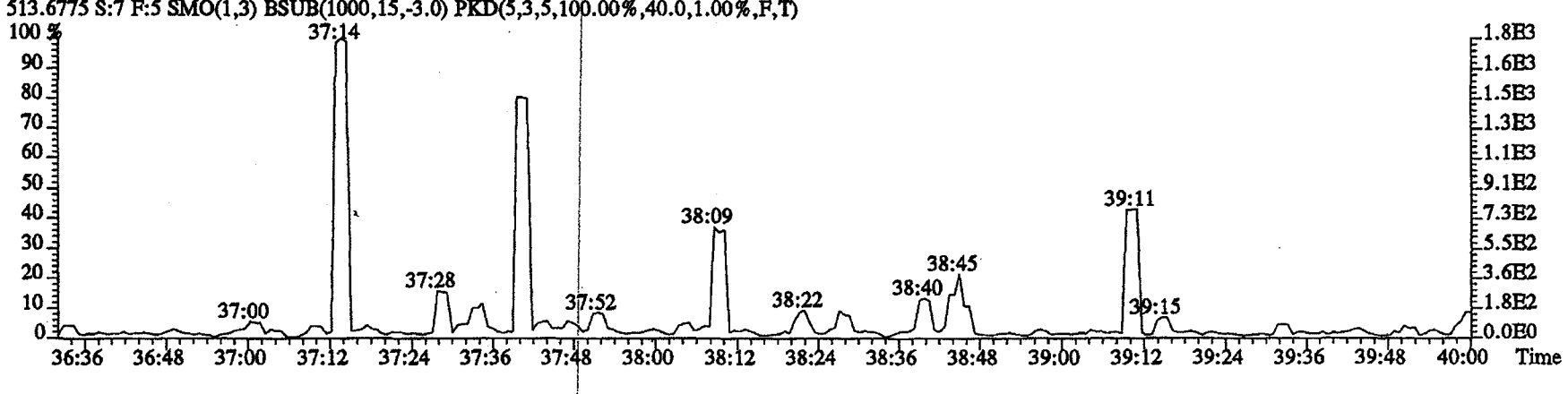
File:04FE104D5 #1-198 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN



File:04FB104D5 #1-281 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204B :2nd Source 09DXN449 Exp:DIOXIN

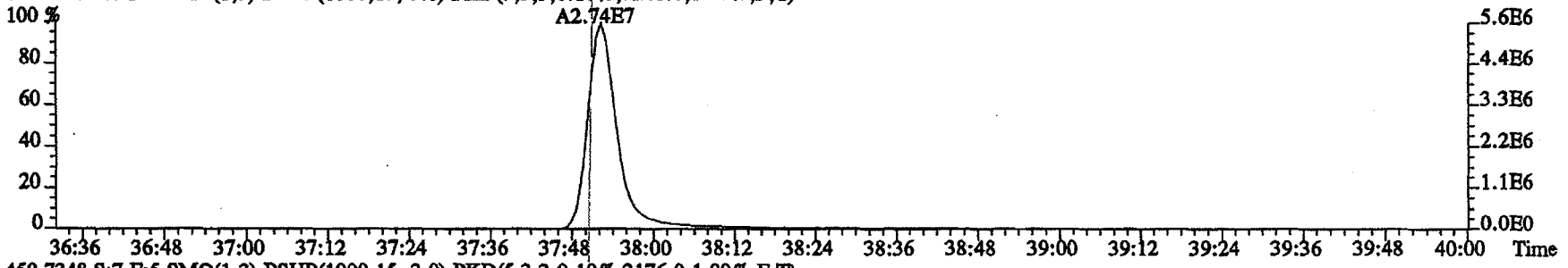




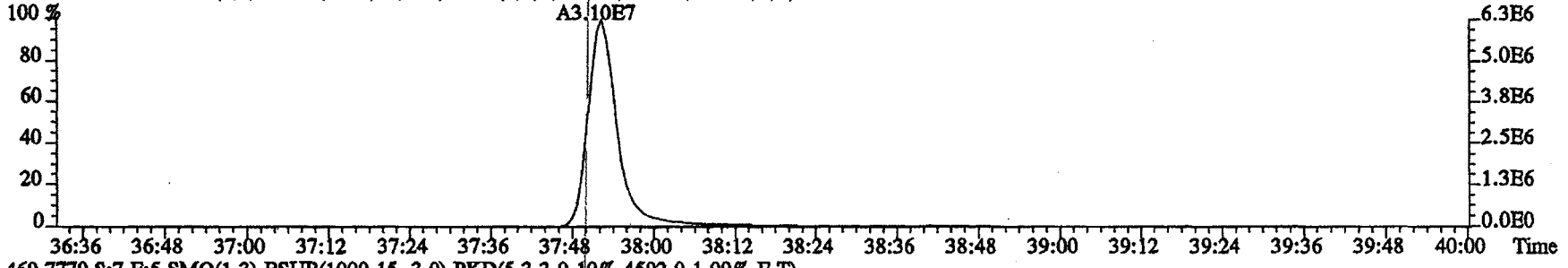


File:04FE104D5 #1-281 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN

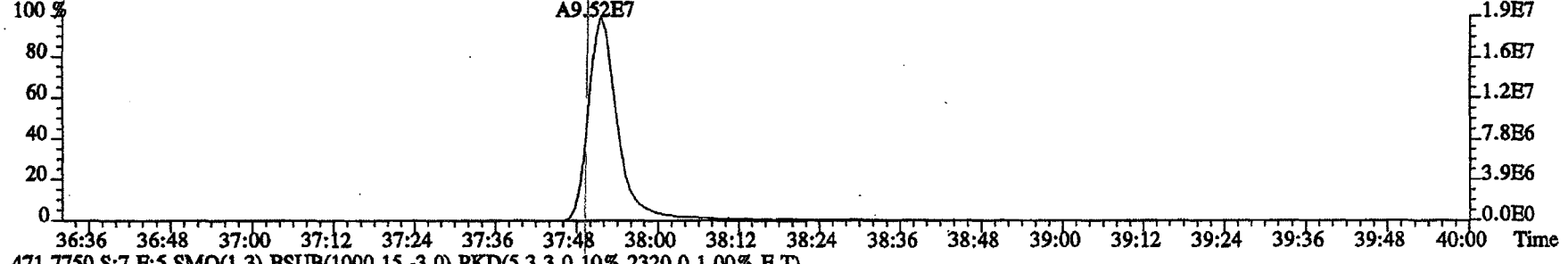
457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3248.0,1.00%,F,T)



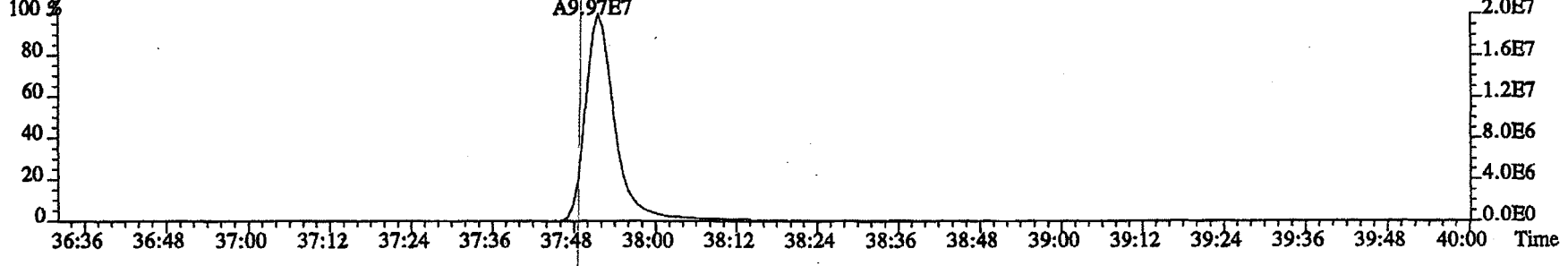
459.7348 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3176.0,1.00%,F,T)



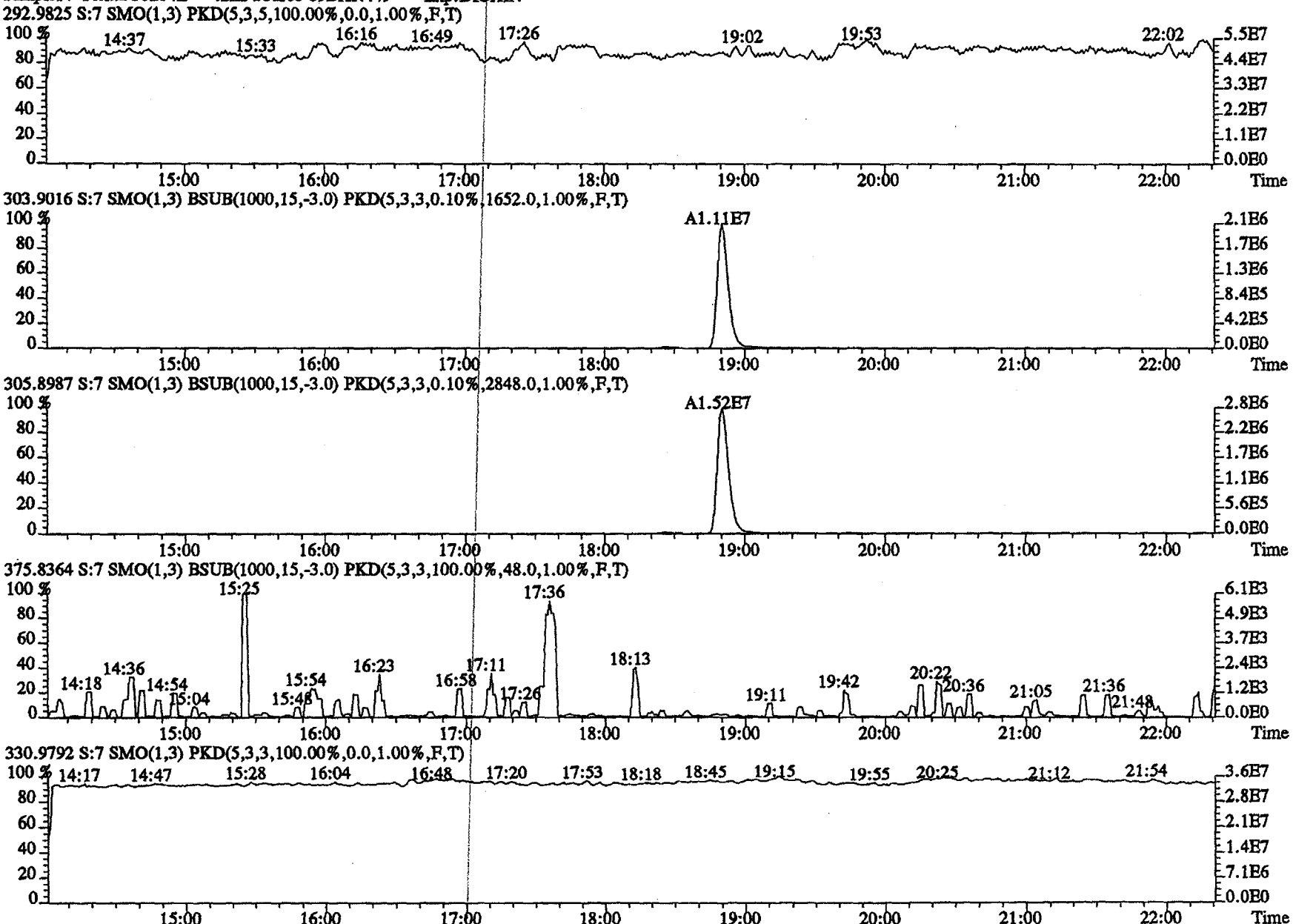
469.7779 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4592.0,1.00%,F,T)



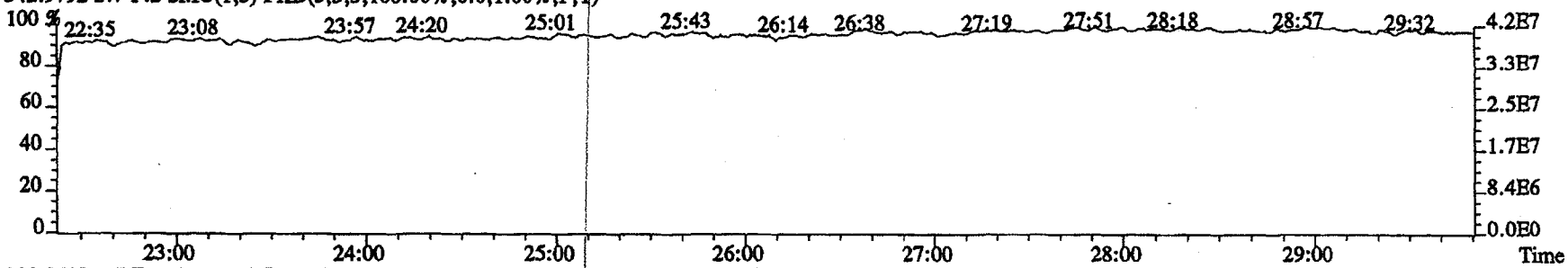
471.7750 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2320.0,1.00%,F,T)



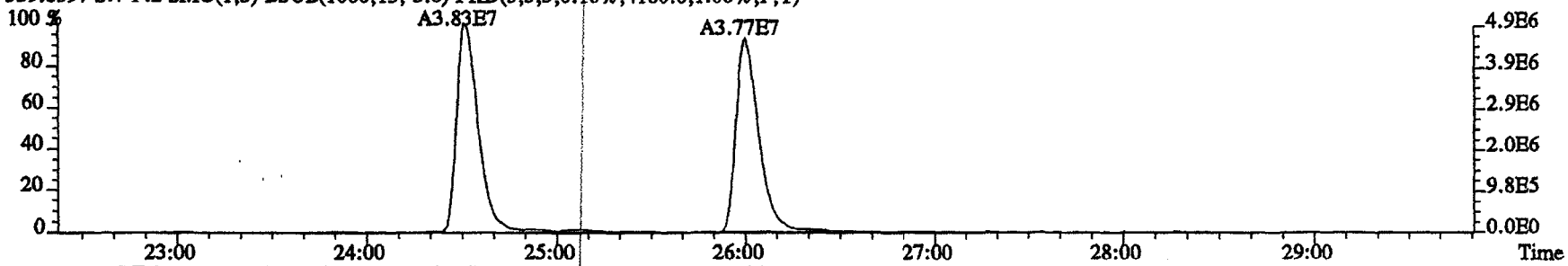
File:04FB104D5 #1-578 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN



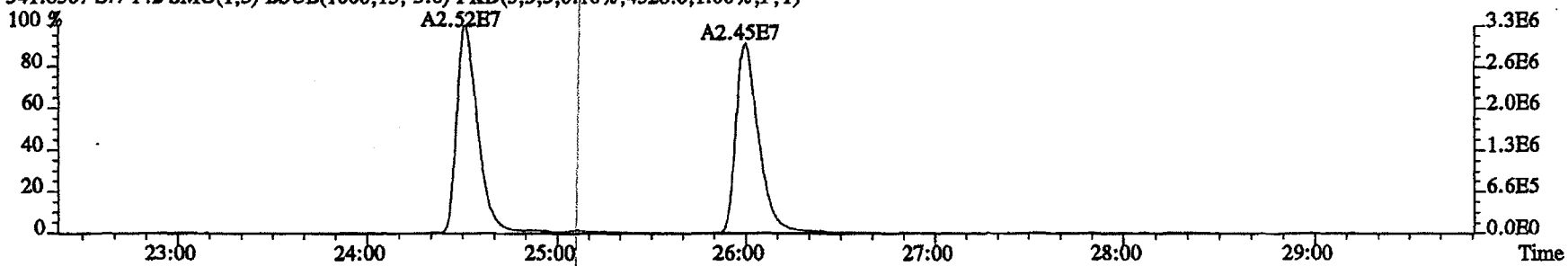
File:04FE104D5 #1-596 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN
342.9792 S:7 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



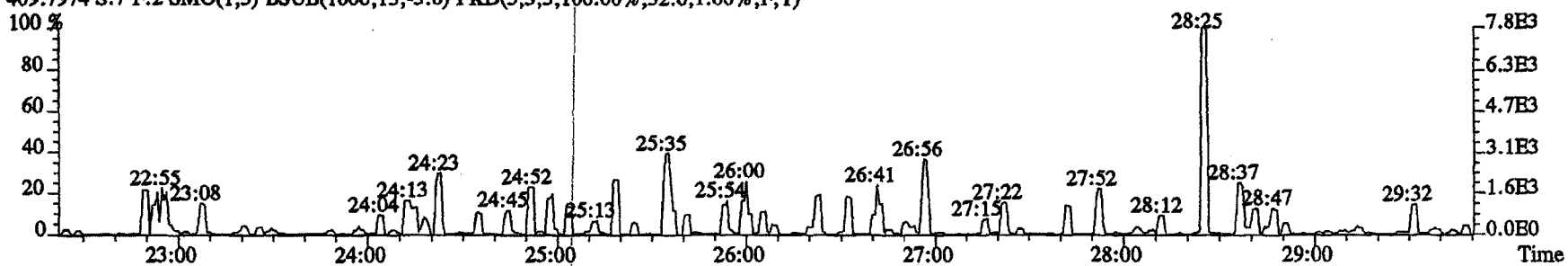
339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4160.0,1.00%,F,T)



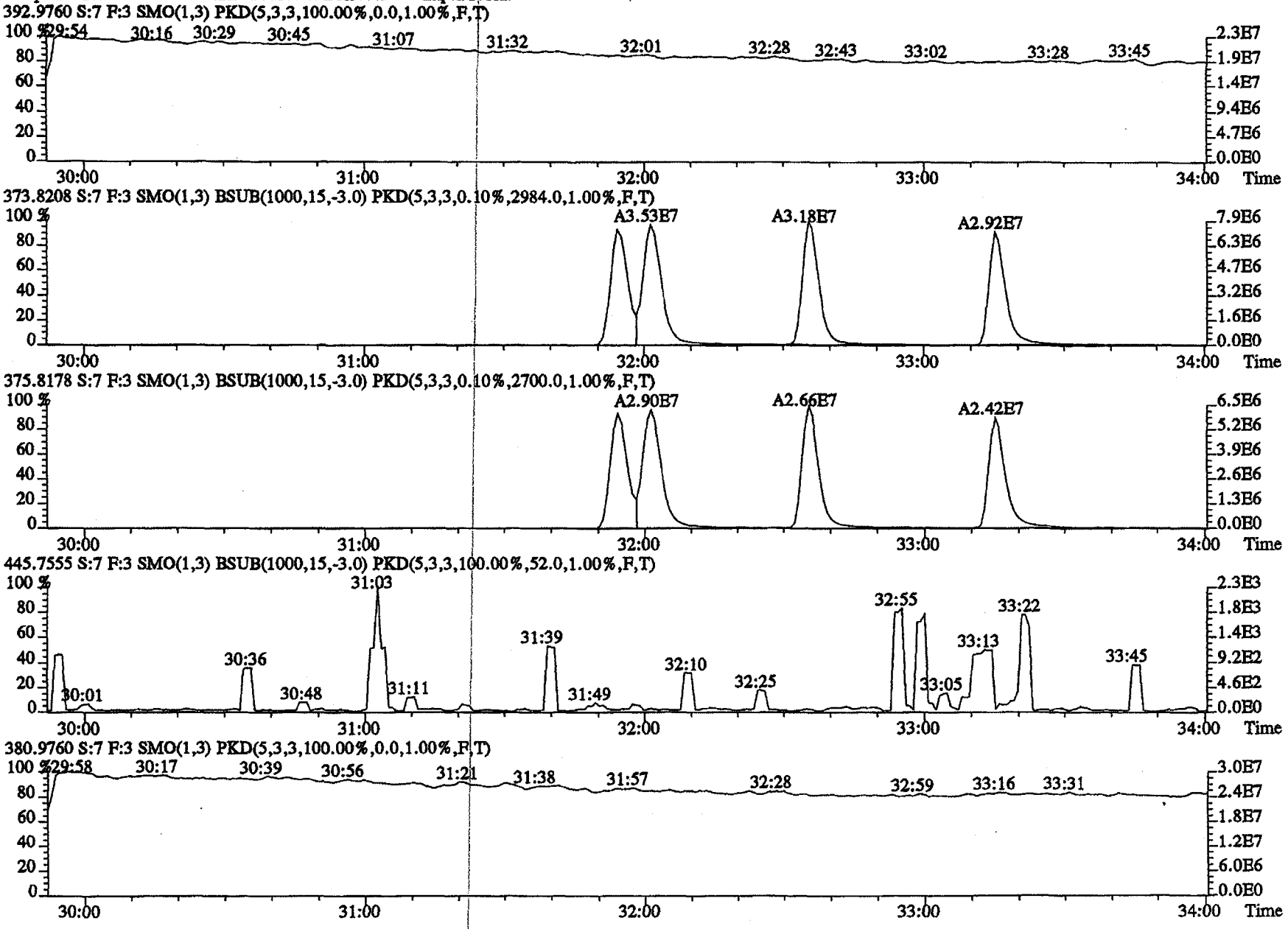
341.8567 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4528.0,1.00%,F,T)



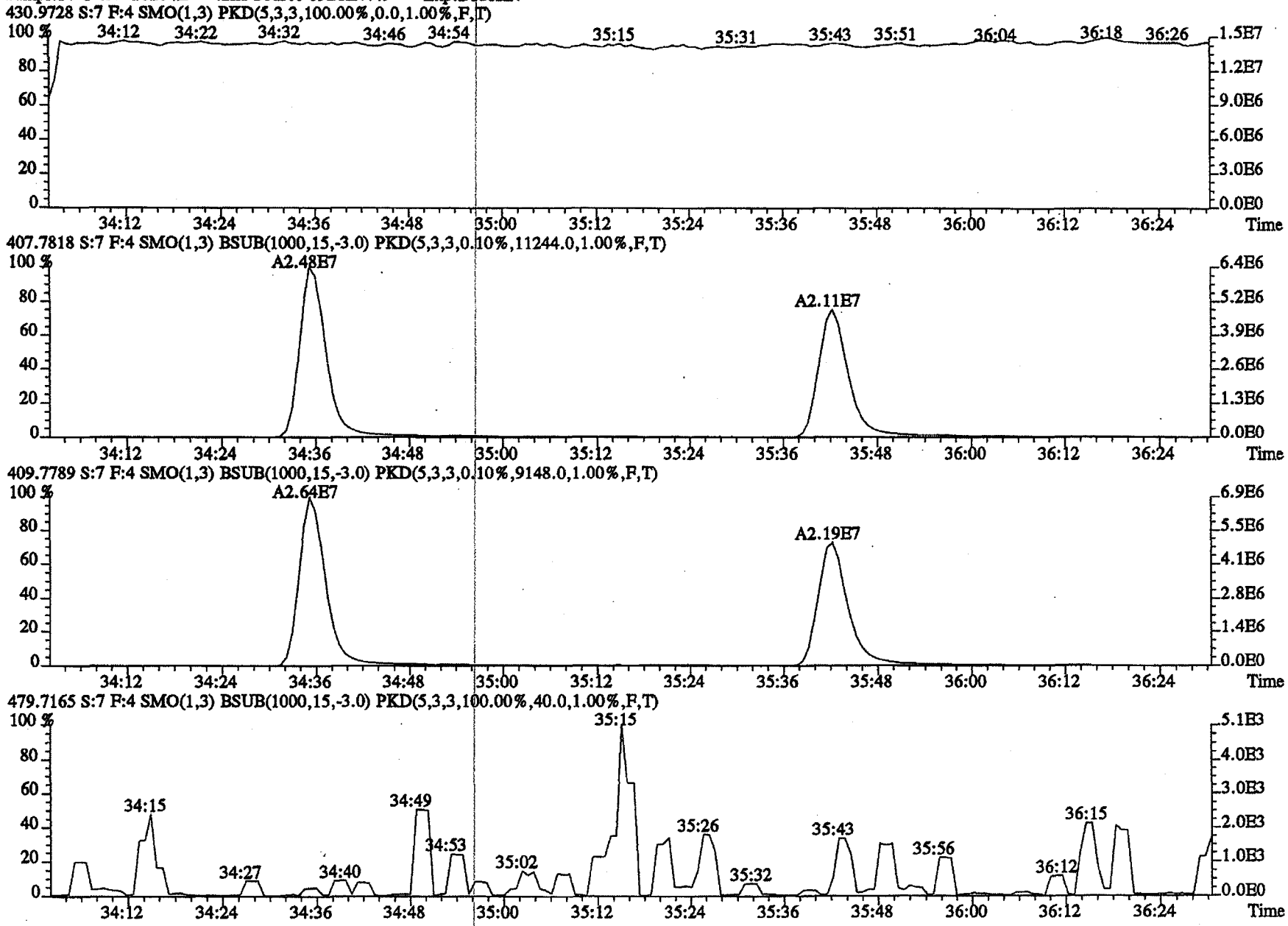
409.7974 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,32.0,1.00%,F,T)



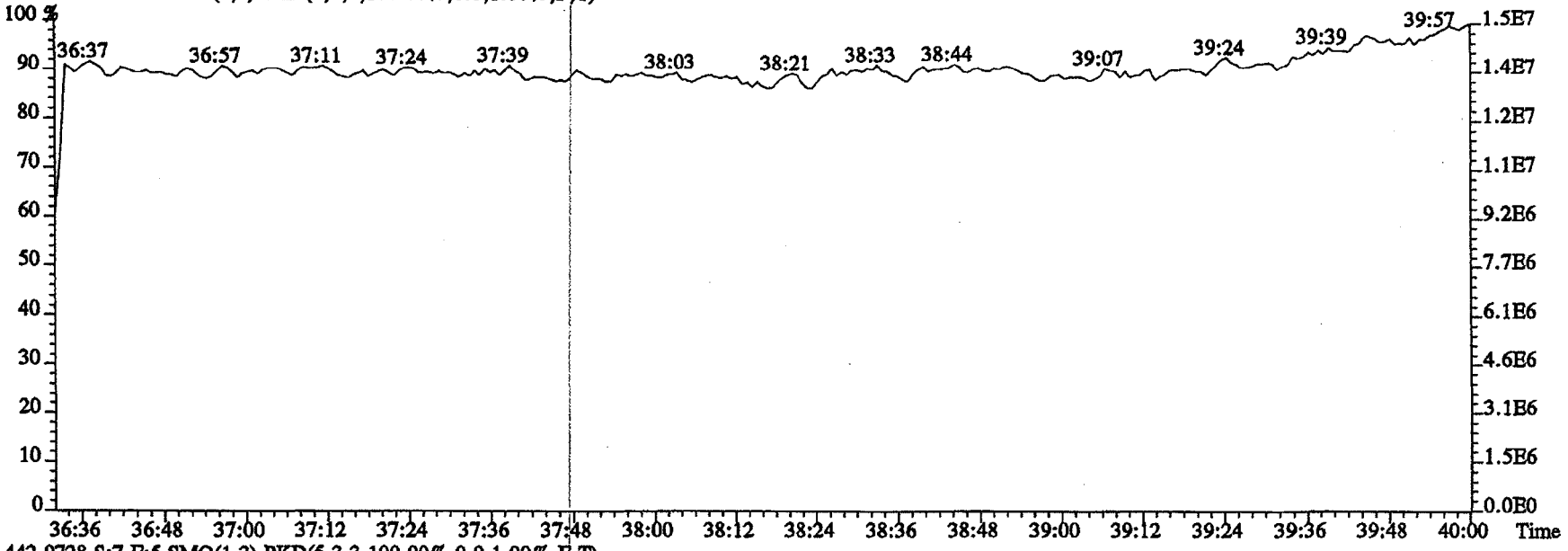
File:04FB104D5 #1-314 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN



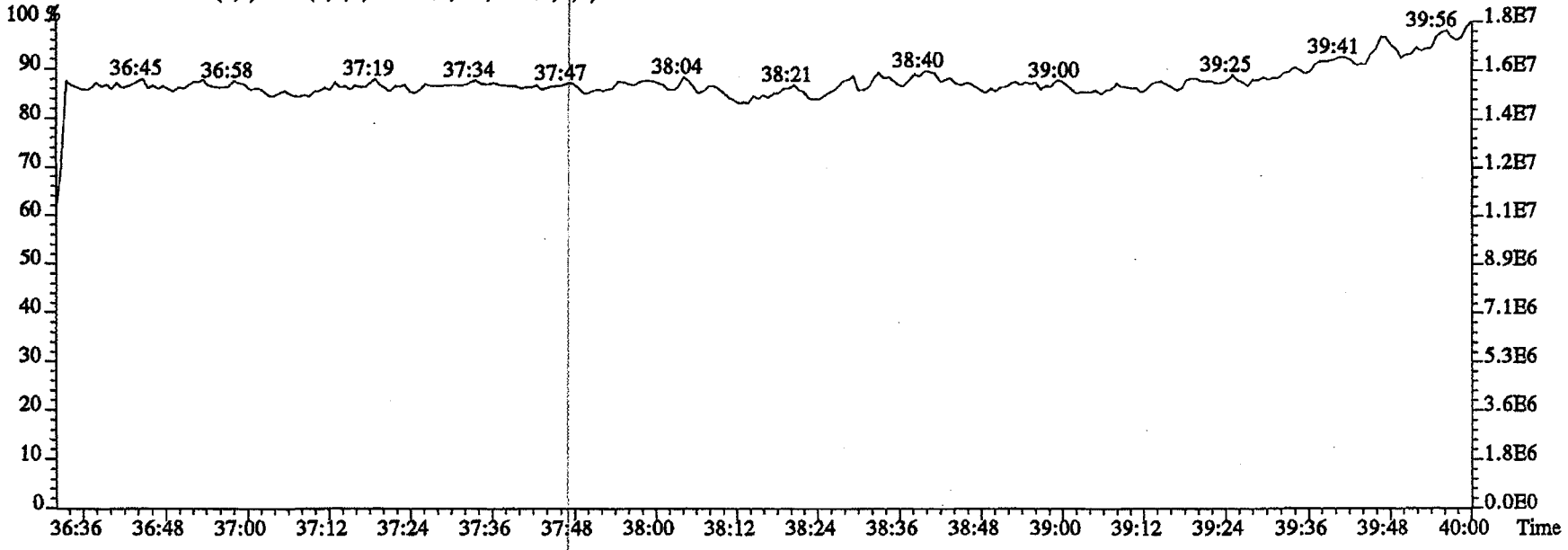
File:04FE104D5 #1-198 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN



File:04FB104D5 #1-281 Acq: 4-FEB-2010 14:06:33 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0204E :2nd Source 09DXN449 Exp:DIOXIN
454.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Sample Extraction/Preparation Log Copies and Checklists

TestAmerica West Sacramento

Data Checklist
HRGCMS/LRGCMS Analyses

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Batch #: 0043244 Method ID: 8290

	DB-5	DB-225
Data Analyst:	AK	
Date initiated:	2/23/10	
Reviewer:		
Date reviewed:	2/23/10	

QA/QC verification:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Daily standard package(s) present?	✓	✓		
-Method Blank present?	✓	✓		
-LCS/DCS copy present and meets native recovery criteria?	✓	✓		
-Internal standard recoveries within limits?*	✓	✓		
-Ion ratios within + 15% of theoretical values?	①	①		
-Other QC (Dup,MS,SD) within specs?**	✓	✓		

Sample Analysis:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Correct sample aliquot used?	✓	✓		
-All raw data present?	✓	✓		
-Standard target DL's used? If RL's are used specify:	✓	✓		
-DL's below TDL / LCL (please circle)?	✓	✓		
-All positives reported at levels greater than method blank DL's?	✓	✓		
-Correct RRF's used for method?	✓	✓		
-Internal standard amounts correct for method?	✓	✓		
-Target analytes are not saturated?	✓	✓		
-Dilution/splitting of extract taken into account?	NA	NA		
-Have dilution calculations been verified?	NA	NA		
-Has a manual calculation for the sequence(s) been verified?	✓	✓		
-Are retention times (RT) correct?	✓	✓		
-Manual integrations checked?	✓	✓		

Comments: (Use other side if necessary)
① See NCM

* Recovery limits:		**RPD limits:
NCASI 551:	40-120%***	50%
Method 8290:	40-135%***	20%
Method 1613:	25-150%***	50%
Method 23:	40-130%***(Cl4-Cl6), 25-130%(Cl7-8), 70-130%(surr.)	50%
PCBs:	25-150%***	50%
Method 8280:	40-120%***	
DFLM01.0:	25-150%***	
Method 1614	25-150%***	

*** Lower recoveries are acceptable if I.S. S/N ≥10:1 and DL's are <LCL for target analytes.

QA-371 07/99 MAF

TestAmerica West Sacramento
High Resolution Prep Log
Dioxin/Furan AQ Extraction

Box # 14

Shared QC Batch: Same

Shares QC With: 0043251, 0043250, 0043248

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	2/15/10
Inst Receipt:	

Batch: 0043244

MS Run #:

Prep Date: 2/12/2010

Method: Q& 8290A

Matrix: I WATER

Extraction: 09 LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

QC: 01 STANDARD TEST SET

SAC: Q& - I - 09 - 01

Prep Reagents

Reagent	Supplier	Lot #
DCM	Baker	HU0502
Hexane	Baker	H33E04
H2SO4	Baker	NA
20% DCM:Hexane	NA	3630-48E
65% DCM:Hexane	NA	3630-48D
1:1 DCM:Cyclohexane	NA	NA
75:20:5 DCM:Hexane:Benzene	NA	NA
Silica Gel	Whatman	22-22
Acid Alumina	MP Bio	18
5% Carbon:Silica Gel	NA	NA

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size * 1000ml	Initial Weight	Final Weight	Final Volume 20uL	Final Volume Other	Analysis Hold Time Expires	Extraction ID	Rotovap ID
G0B040517 - 2		LT76V1AA	3/4/2010	1054.3	1551.5	497.2			3/29/2010		
G0B040517 - 4		LT76X1AA	3/4/2010	1051.6	1548.9	497.3			3/29/2010		
G0B040517 - 4	S	LT76X1AC	3/4/2010	1052.0	1549.5	497.5			3/29/2010		
G0B040517 - 4	D	LT76X1AD	3/4/2010	1054.4	1551.1	496.7			3/29/2010		
G0B040517 - 10		LT7691AA	3/4/2010	1055.5	1552.9	497.4		2/15/10	3/29/2010	2/15/10	2/15/10
G0B040517 - 12		LT77C1AA	3/4/2010	1025.2	1516.3	491.1			3/29/2010		
G0B120000 - 244	B	LVLQM1AA	3/4/2010	1000	NA	NA			3/29/2010		
G0B120000 - 244	C	LVLQM1AC	3/4/2010	1000.0					3/29/2010		

* See attached sheet for sample volumes recorded from scale

Comments/NCMs:

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Internal Standard All Samples	IM 10DXN 051	10/31/10	BG	[illegible]	2/12/10
Spike Mix LCS/LCSD/MS/MS	SQ 10DXN 005	1/11/11	BG	[illegible]	2/12/10
Cleanup Standard All Samples	1.0mL 10DXN 048	10/30/2010	[illegible]	T.L	02/15/10
Recovery Standard All Samples	20.0 09DXN 388	11/19/10	[illegible]	[illegible]	2/15/10
Liq Liq Extraction Analyst/Date	BG 2/12/10				

Split/Archive Analyst/Date	Option C Analyst/Date	IFB Analyst/Date	D2 Analyst/Date
—	—	T.L 02/15/10	—

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 2/15/10
Time: 16:15:38

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
Y	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 403613 Brent Ginn

Concentrationist: 006625 Elizabeth Nguyen

QC BATCH: 0043244

PREP DATE: 2/12/10 11:00
COMP DATE: 2/15/10 17:00

Reviewer/Date: NGUYENE / 2/15/10

Dioxins/Furans, HRGC/HRMS (8290A)
LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/04/10	2/22/10	G0B040517-002 **LT76V-1-AA**	D	09	Q&	WATER	**1054.3mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS10DXN051
COMMENTS:															
3/04/10	2/22/10	G0B040517-004 **LT76X-1-AA**	D	09	Q&	WATER	**1051.6mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS10DXN051
COMMENTS:															
3/04/10	2/22/10	G0B040517-004 **LT76X-1-ACS**	D	09	Q&	WATER	**1052.0mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	20.0	50UL NS10DXN005 1.0ML IS10DXN051
COMMENTS:															
3/04/10	2/22/10	G0B040517-004 **LT76X-1-ADD**	D	09	Q&	WATER	**1054.4mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	20.0	50UL NS10DXN005 1.0ML IS10DXN051
COMMENTS:															
3/04/10	2/22/10	G0B040517-010 **LT769-1-AA**	D	09	Q&	WATER	**1055.5mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS10DXN051
COMMENTS:															
3/04/10	2/22/10	G0B040517-012 **LT77C-1-AA**	D	09	Q&	WATER	**1025.2mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS10DXN051
COMMENTS:															
3/04/10	0/00/00	G0B120000-244 **LVLQM-1-AAB**		09	Q&	WATER	**1000.0mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS10DXN051
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 2/15/10
Time: 16:15:38

QC BATCH: 0043244

PREP DATE: 2/12/10 11:00
COMP DATE: 2/15/10 17:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
		G0B120000-244													
3/04/10	0/00/00	**LVLQM-1-ACC**		09	Q&	WATER	**1000.0mL**	NA	NA	NA	DCM	300.0	C-14	20.0	50UL NS10DXN005
COMMENTS:							20.00uL								1.0ML IS10DXN051

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD
‡

NUMBER OF WORK ORDERS IN BATCH: 8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0043244 **Test:** 8290

Prep Date: 2/12/10 **Holding Times:** 3/4/10 **NCM:** Y (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. **Holding times checked?** NCMs filed as appropriate	✓	✓
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	✓	✓
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.	✓	NA
4. Worksheets have been checked for required spiking compounds	✓	✓
5. Spiking volumes are correctly documented	✓	✓
6. Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7. Expiration dates have been checked	✓	✓
8. Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet	✓	✓
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	✓
2. Balance upload or raw data for weights is included	NA	✓
3. Weights and volumes have been transcribed correctly to LIMS.	NA	✓
4. Weights are not targeted to meet exact weights.	NA	✓
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	✓
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	✓
2. Are dates and analysts for cleanups recorded?	NA	✓
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	✓
D. Documentation		✓
1. Are all nonconformances documented appropriately?	NA	✓
2. QuantIMs entry correct, including dates and times.	NA	✓
3. Are all fields completed?	NA	✓

Spike witness: [signature] Date: 2/12/10

2nd Level Reviewer: [signature] Date: 2/15/10

Comments:

March 4, 2010

TestAmerica Project Number: G0B250507

Christina Venable
Loureiro Engineering Associates
100 Northwest Drive
Plainville, CT 06062

Dear Ms. Venable,

This report contains the analytical results for the sample received under chain of custody by TestAmerica on February 25, 2010. This sample is associated with your Centredale Manor project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4402.

Sincerely,

Jill Kellmann
Project Manager

CC: Kyle R. Clay – Environmental Standards

Table of Contents

TestAmerica West Sacramento Project Number G0B250507

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

WATER, 8290A, Dioxins/Furans
Sample: 1
- Sample Data Sheet
- Method Blank Report
- Laboratory QC Reports

Full Raw Data Package

Case Narrative

TestAmerica West Sacramento Project Number G0B250507

WATER, 8290A, Dioxins/Furans
Sample(s): 1
Several analytes have been qualified with a "Q" flag as the ion abundance ratios are outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio.

There were no other anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G0B250507

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LV3T7	1	1138344	2/2/2010 04:30 PM	2/4/2010 09:00 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

G0B250507

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Loureiro Engineering Assoc	Dave Scotti	2/2/10	133162
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
100 Northwest Dr	8607476181 / 8607478822		
City / State / Zip Code	**Site Contact / Lab Contact**		
Plainville / CT / 06062	Dave Briel		
Project Name and Location (State)	**Carrier/Waybill Number**		
GW Sampling Centredale Manor RI			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICL	EDD/PCDF EPA 8270A											Special Instructions/ Conditions of Receipt
1138343 uf	2/2/10	1630		X										2	X											
Temp Blank	2/2/10													1												
1138344	2/2/10	1630		X										2	X											
														2/3/10												
* labeled 1138344 uf - @ 02/4/10																										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	2/3/10	1600	1. Received By: C Leng Vue	2/4/10	1045
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: EDD and Data Validation Package Deliverables — Cooler # 540288

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

411111 THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Loureiro Eng. PM UK LOG # 63085

LOT# (QUANTIMS ID) ~~G0B040517OU~~ 2/23/10 G0B250507 QUOTE# 85234 LOCATION W15B

Checked (✓)

DATE RECEIVED 2/4/10 TIME RECEIVED 0900 ☑

DELIVERED BY ☑ FEDEX ☐ ON TRAC ☐ CLIENT

☐ GOLDENSTATE ☐ UPS ☐ GO-GETTERS ☐ OTHER

☐ TAL COURIER ☐ TAL SF ☐ VALLEY LOGISTICS ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) 540286, 540287, 540288

SHIPPPING CONTAINER(S) ☑ TAL ☐ CLIENT ☐ N/A ☑

COC #(S) 133161, 133169, 133162 ☑

TEMPERATURE BLANK Observed: Corrected: See multi-cooler checklist

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: Average Corrected Average

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☐ #5 ☑ ☐ OTHER ☑

Initials CV Date 2/4/10

pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A ☑

LABELED BY ☑

LABELS CHECKED BY ☑

PEER REVIEW ☑ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING ☑

WETCHEM ☑ N/A ☑

VOA-ENCORES ☑ N/A ☑

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☑ N/A ☑

☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☑ N/A ☑ 2/4/10

☑ CLOUSEAU ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)[1] ☑ N/A 2/4/10

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☑ PM NOTIFIED

Initials ~~CV~~ 2/4/10 AV 2/25/10 Date 2/25/10

Notes

[1] Acceptable temperature range for State of Wisconsin samples is ≤4°C.

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TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G0B250507

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB	/																			
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 5/05 EM

Page 3

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

MULTI COOLER RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT: Loureiro Eng. LOT# (QUANTIMS ID): G0B040517

Checked (✓)

TEMPERTURE RECORD (IN °C) IR 4☐ 5☑ ☐ OTHER _____ ☑

COOLER ID 1 ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) 540286 ☑

COC #(S) 133161

TEMPERATURE BLANK: OBSERVED: 1 CORRECTED 2 ☑

SAMPLE TEMPERATURE:

OBSERVED: 2 4 3 AVERAGE: 3 CORRECTED 3 ☑

SAMPLES / TESTS (IF NCM REQUIRED): _____ ☑

TEMPERTURE RECORD (IN °C) IR 4☐ 5☑ ☐ OTHER _____ ☑

COOLER ID 2 ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) 433160 540287 ☑

COC #(S) 133160

TEMPERATURE BLANK: OBSERVED: 2 CORRECTED 3 ☑

SAMPLE TEMPERATURE:

OBSERVED: 3 3 3 AVERAGE: 3 CORRECTED 3 ☑

SAMPLES / TESTS (IF NCM REQUIRED): _____ ☑

TEMPERTURE RECORD (IN °C) IR 4☐ 5☑ ☐ OTHER _____ ☑

COOLER ID 3 ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) 540288 ☑

COC #(S) 133162

TEMPERATURE BLANK: OBSERVED: 2 CORRECTED 3 ☑

SAMPLE TEMPERATURE:

OBSERVED: 2 3 0 AVERAGE: 2 CORRECTED 2 ☑

SAMPLES / TESTS (IF NCM REQUIRED): _____ ☑

CV 2/4/10

Initials Date

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE. INITIAL AND DATE ALL "N/A" ENTRIES.

QA-185 1/06 RKE, Page 2

WATER, 8290A, Dioxins/Furans

Loureiro Engineering Associates Inc

Sample ID: 1138344

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B250507 - 001	**Work Order #....:**	LV3T71AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	1
Prep Date....:	02/25/10	**Analysis Date....:**	03/02/10		
Prep Batch # ....:	0056319	**Instrument ID....:**	3D5		
Initial Wgt/Vol :	992.93 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	**68**		**10**	**0.39**	**pg/L**
Total TCDD	**68**		**10**	**0.39**	**pg/L**
1,2,3,7,8-PeCDD	ND		50	0.60	pg/L
Total PeCDD	ND		50	0.60	pg/L
1,2,3,4,7,8-HxCDD	ND		50	0.49	pg/L
1,2,3,6,7,8-HxCDD	ND		50	0.40	pg/L
1,2,3,7,8,9-HxCDD	ND		50	0.42	pg/L
Total HxCDD	ND		50	0.49	pg/L
1,2,3,4,6,7,8-HpCDD	**1.6**	**J B**	**50**	**0.87**	**pg/L**
Total HpCDD	**3.8**		**50**	**0.87**	**pg/L**
OCDD	**4.6**	**J Q B**	**100**	**0.95**	**pg/L**
2,3,7,8-TCDF	ND		10	0.30	pg/L
Total TCDF	ND		10	0.30	pg/L
1,2,3,7,8-PeCDF	ND		50	0.38	pg/L
2,3,4,7,8-PeCDF	ND		50	0.40	pg/L
Total PeCDF	ND		50	0.40	pg/L
1,2,3,4,7,8-HxCDF	ND		50	0.34	pg/L
1,2,3,6,7,8-HxCDF	ND		50	0.31	pg/L
2,3,4,6,7,8-HxCDF	ND		50	0.33	pg/L
1,2,3,7,8,9-HxCDF	ND		50	0.38	pg/L
Total HxCDF	ND		50	0.38	pg/L
1,2,3,4,6,7,8-HpCDF	**1.2**	**J B**	**50**	**0.38**	**pg/L**
1,2,3,4,7,8,9-HpCDF	ND		50	0.46	pg/L
Total HpCDF	**2.3**		**50**	**0.41**	**pg/L**
OCDF	**2.2**	**J B**	**100**	**0.90**	**pg/L**

\\qsacsql1\QDSApps\SOG_Stnd\EDL_RL_Report.rpt 3/4/2010

Loureiro Engineering Associates Inc

Sample ID: 1138344

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B250507 - 001	**Work Order #....:**	LV3T71AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	1
Prep Date....:	02/25/10	**Analysis Date....:**	03/02/10		
Prep Batch # ....:	0056319	**Instrument ID....:**	3D5		
Initial Wgt/Vol :	992.93 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	40 - 135
13C-1,2,3,7,8-PeCDD	78	40 - 135
13C-1,2,3,6,7,8-HxCDD	90	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	93	40 - 135
13C-OCDD	89	40 - 135
13C-2,3,7,8-TCDF	82	40 - 135
13C-1,2,3,7,8-PeCDF	80	40 - 135
13C-1,2,3,4,7,8-HxCDF	87	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	89	40 - 135

QUALIFIERS

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

\\qsacsql1\QDSApps\SOG_Stnd\EDL_RL_Report.rpt 3/4/2010

QC DATA ASSOCIATION SUMMARY

G0B250507

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8290A		0056319	

Method Blank Report

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B250000 - 319B	**Work Order #....:**	LV4HR1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	1
Prep Date....:	02/25/10	**Analysis Date....:**	03/02/10		
Prep Batch # ....:	0056319	**Instrument ID....:**	3D5		
Initial Wgt/Vol :	1000 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	0.38	pg/L
Total TCDD	ND		10	0.38	pg/L
1,2,3,7,8-PeCDD	ND		50	0.68	pg/L
Total PeCDD	ND		50	0.68	pg/L
1,2,3,4,7,8-HxCDD	ND		50	0.50	pg/L
1,2,3,6,7,8-HxCDD	ND		50	0.41	pg/L
1,2,3,7,8,9-HxCDD	ND		50	0.42	pg/L
Total HxCDD	ND		50	0.50	pg/L
1,2,3,4,6,7,8-HpCDD	**0.90**	**J Q**	**50**	**0.64**	**pg/L**
Total HpCDD	**2.5**		**50**	**0.64**	**pg/L**
OCDD	**4.0**	**J**	**100**	**0.46**	**pg/L**
2,3,7,8-TCDF	**0.24**	**J Q**	**10**	**0.18**	**pg/L**
Total TCDF	**0.48**		**10**	**0.18**	**pg/L**
1,2,3,7,8-PeCDF	ND		50	0.32	pg/L
2,3,4,7,8-PeCDF	ND		50	0.34	pg/L
Total PeCDF	ND		50	0.34	pg/L
1,2,3,4,7,8-HxCDF	ND		50	0.30	pg/L
1,2,3,6,7,8-HxCDF	ND		50	0.27	pg/L
2,3,4,6,7,8-HxCDF	ND		50	0.29	pg/L
1,2,3,7,8,9-HxCDF	ND		50	0.34	pg/L
Total HxCDF	ND		50	0.34	pg/L
1,2,3,4,6,7,8-HpCDF	**0.54**	**J Q**	**50**	**0.39**	**pg/L**
1,2,3,4,7,8,9-HpCDF	ND		50	0.47	pg/L
Total HpCDF	**0.54**		**50**	**0.43**	**pg/L**
OCDF	**1.5**	**J**	**100**	**0.44**	**pg/L**

\\qsacsql1\QDSApps\SOG_Stnd\EDL_RL_Report.rpt 3/4/2010

Method Blank Report

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B250000 - 319B	**Work Order #....:**	LV4HR1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	1
Prep Date....:	02/25/10	**Analysis Date....:**	03/02/10		
Prep Batch # ....:	0056319	**Instrument ID....:**	3D5		
Initial Wgt/Vol :	1000 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	40 - 135
13C-1,2,3,7,8-PeCDD	85	40 - 135
13C-1,2,3,6,7,8-HxCDD	86	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	103	40 - 135
13C-OCDD	89	40 - 135
13C-2,3,7,8-TCDF	85	40 - 135
13C-1,2,3,7,8-PeCDF	86	40 - 135
13C-1,2,3,4,7,8-HxCDF	84	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	94	40 - 135

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

\\qsacsql1\QDSApps\SOG_Stnd\EDL_RL_Report.rpt 3/4/2010

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	G0B250507	**Work Order # ...:**	LV4HR1AC-LCS	**Matrix .....:**	WATER
LCS Lot-Sample# :	G0B250000 - 319				
Prep Date .....:	02/25/10	**Analysis Date ..:**	03/02/10		
Prep Batch # ...:	0056319				
Dilution Factor :	1				
Analyst ID.....:	Alora Kuczynski	**Instrument ID..:**	3D5	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	1000 mL				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS
2,3,7,8-TCDD	**200**	**196**	**pg/L**	**98**	**(64 - 142)**
1,2,3,7,8-PeCDD	**1000**	**987**	**pg/L**	**99**	**(71 - 140)**
1,2,3,4,7,8-HxCDD	**1000**	**1100**	**pg/L**	**110**	**(56 - 146)**
1,2,3,6,7,8-HxCDD	**1000**	**1030**	**pg/L**	**103**	**(73 - 144)**
1,2,3,7,8,9-HxCDD	**1000**	**1080**	**pg/L**	**108**	**(71 - 151)**
1,2,3,4,6,7,8-HpCDD	**1000**	**983**	**pg/L**	**98**	**(78 - 139)**
OCDD	**2000**	**2010**	**pg/L**	**101**	**(80 - 132)**
2,3,7,8-TCDF	**200**	**204**	**pg/L**	**102**	**(71 - 142)**
1,2,3,7,8-PeCDF	**1000**	**1000**	**pg/L**	**100**	**(76 - 135)**
2,3,4,7,8-PeCDF	**1000**	**1020**	**pg/L**	**102**	**(74 - 137)**
1,2,3,4,7,8-HxCDF	**1000**	**1060**	**pg/L**	**106**	**(75 - 131)**
1,2,3,6,7,8-HxCDF	**1000**	**1020**	**pg/L**	**102**	**(76 - 133)**
2,3,4,6,7,8-HxCDF	**1000**	**1060**	**pg/L**	**106**	**(80 - 137)**
1,2,3,7,8,9-HxCDF	**1000**	**1120**	**pg/L**	**112**	**(77 - 142)**
1,2,3,4,6,7,8-HpCDF	**1000**	**1030**	**pg/L**	**103**	**(79 - 133)**
1,2,3,4,7,8,9-HpCDF	**1000**	**1150**	**pg/L**	**115**	**(83 - 130)**
OCDF	**2000**	**2010**	**pg/L**	**101**	**(72 - 140)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	83	(40 - 135)
13C-1,2,3,7,8-PeCDD	77	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	83	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	97	(40 - 135)
13C-OCDD	99	(40 - 135)
13C-2,3,7,8-TCDF	83	(40 - 135)
13C-1,2,3,7,8-PeCDF	78	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	84	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	90	(40 - 135)

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

2005 WHO TEQs
ND=0

Loureiro Engineering Associates Inc

Sample ID: 1138344

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B250507 - 001	**Work Order #....:**	LV3T71AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Instrument ID....:**	3D5
Prep Date....:	02/25/10	**Analysis Date....:**	03/02/10		
Prep Batch # ....:	0056319	**Dilution Factor....:**	1	**Units.....:**	pg/L
Initial Wgt/Vol :	992.93 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	**68**		**10**	**0.39**	**1**	**68**
Total TCDD	**68**		**10**	**0.39**		
1,2,3,7,8-PeCDD	ND		50	0.60	1	0
Total PeCDD	ND		50	0.60		0
1,2,3,4,7,8-HxCDD	ND		50	0.49	0.1	0
1,2,3,6,7,8-HxCDD	ND		50	0.40	0.1	0
1,2,3,7,8,9-HxCDD	ND		50	0.42	0.1	0
Total HxCDD	ND		50	0.49		0
1,2,3,4,6,7,8-HpCDD	**1.6**	**J B**	**50**	**0.87**	**0.01**	**0.016**
Total HpCDD	**3.8**		**50**	**0.87**		
OCDD	**4.6**	**J Q B**	**100**	**0.95**	**0.0003**	**0.0014**
2,3,7,8-TCDF	ND		10	0.30	0.1	0
Total TCDF	ND		10	0.30		0
1,2,3,7,8-PeCDF	ND		50	0.38	0.03	0
2,3,4,7,8-PeCDF	ND		50	0.40	0.3	0
Total PeCDF	ND		50	0.40		0
1,2,3,4,7,8-HxCDF	ND		50	0.34	0.1	0
1,2,3,6,7,8-HxCDF	ND		50	0.31	0.1	0
2,3,4,6,7,8-HxCDF	ND		50	0.33	0.1	0
1,2,3,7,8,9-HxCDF	ND		50	0.38	0.1	0
Total HxCDF	ND		50	0.38		0
1,2,3,4,6,7,8-HpCDF	**1.2**	**J B**	**50**	**0.38**	**0.01**	**0.012**
1,2,3,4,7,8,9-HpCDF	ND		50	0.46	0.01	0
Total HpCDF	**2.3**		**50**	**0.41**		
OCDF	**2.2**	**J B**	**100**	**0.90**	**0.0003**	**0.00066**
Total TEQ Concentration						**68**

\\qsacsql1\QDSApps\TEQ\WHO_2005_TEQ_ND_0.rpt 3/4/2010

Loureiro Engineering Associates Inc

Sample ID: 1138344

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B250507 - 001	**Work Order #....:**	LV3T71AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Instrument ID....:**	3D5
Prep Date....:	02/25/10	**Analysis Date....:**	03/02/10		
Prep Batch # ....:	0056319	**Dilution Factor....:**	1	**Units.....:**	pg/L
Initial Wgt/Vol :	992.93 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	40 - 135
13C-1,2,3,7,8-PeCDD	78	40 - 135
13C-1,2,3,6,7,8-HxCDD	90	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	93	40 - 135
13C-OCDD	89	40 - 135
13C-2,3,7,8-TCDF	82	40 - 135
13C-1,2,3,7,8-PeCDF	80	40 - 135
13C-1,2,3,4,7,8-HxCDF	87	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	89	40 - 135

QUALIFIERS

Notes:

WHO TEFs for human risk assessment based on the conclusions of the World Health Organization meeting in Geneva, Switzerland, June 2005.

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

\\qsacsql1\QDSApps\TEQ\WHO_2005_TEQ_ND_0.rpt 3/4/2010

WATER, 8290A, Dioxins/Furans

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

continuing calibration standards

interference/performance check standards

continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

ms tune data

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: X:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Wednesday, March 03, 2010 10:07:47 Pacific Standard Time
Printed: Wednesday, March 03, 2010 10:08:32 Pacific Standard Time

AK 3/3/10

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 02 Mar 2010 14:08:15
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB, Task:

#	Name	Trace	Sample Size	RT	Prd.RT	RRF M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	1.000	19.14	19.14	1.00000	2255693.13	2000.0000	2000.0000	100.0	1.11954	0.78	NO	
2														
3	13C-2,3,7,8-TCDF	315.9419	1.000	18.57	18.55	1.40173	2680479.00	1695.5049	1695.5049	84.8	0.69940	0.80	NO	
4	2,3,7,8-TCDF	303.9016	1.000	18.60	18.58	0.92135	344.28	0.2788	0.2408 JQ		0.17793	1.05	YES	
5	Total TCDFs	303.9016	1.000		21.44	0.92135		0.8379	~~0.6569~~ 0.477		0.17793			
6														
7	13C-2,3,7,8-TCDD	331.9368	1.000	19.35	19.35	0.94961	1822656.69	1701.7998	1701.7998	85.1	1.17895	0.79	NO	
8	2,3,7,8-TCDD	319.8965	1.000		19.37	1.03870					0.37719		NO	
9	Total TCDDs	319.8965	1.000		19.55	1.03870					~~0.18945~~ 0.1377			
10														
11	37CL-2,3,7,8-TCDD	327.8847	1.000	19.37	19.37	1.14465	856986.13	663.8216	0.0000	83.0	0.34609			
12														
13	13C-1,2,3,7,8-PeCDF	351.9000	1.000	24.16	24.14	1.11677	2172664.88	1724.9665	1724.9665	86.2	1.94780	1.58	NO	
14	1,2,3,7,8-PeCDF	339.8597	1.000		24.20	0.98929					0.32157		NO	
15	2,3,4,7,8-PeCDF	339.8597	1.000		25.67	0.94936					0.33509		NO	
16	Total F2 PeCDFs	339.8597	1.000		34.47	0.96932					0.~~14078~~ 0.0335			
17	Total F1 PeCDFs	339.8597	1.000		36.56	0.96932					0.~~12727~~			
18														
19	13C-1,2,3,7,8-PeCDD	367.8949	1.000	26.45	26.44	0.77603	1483889.19	1695.4105	1695.4105	84.8	1.38771	1.65	NO	
20	1,2,3,7,8-PeCDD	355.8546	1.000		26.47	0.96958					0.68348		NO	
21	Total PeCDDs	355.8546	1.000		31.10	0.96958		0.0230	~~0.0213~~		0.68348			
22														
23	13C-1,2,3,7,8,9-HxCDD	401.8559	1.000	32.98	32.97	1.00000	1843230.44	2000.0000	2000.0000	100.0	1.90104	1.28	NO	
24														
25	13C-1,2,3,4,7,8-HxCDF	383.8639	1.000	31.75	31.75	0.97183	1499475.38	1674.1725	1674.1725	83.7	2.89944	0.52	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	1.000		31.77	1.20038					0.30355		NO	
27	1,2,3,6,7,8-HxCDF	373.8208	1.000		31.87	1.34082					0.27175		NO	
28	2,3,4,6,7,8-HxCDF	373.8208	1.000		32.49	1.25668					0.28995		NO	
29	1,2,3,7,8,9-HxCDF	373.8208	1.000		33.16	1.07528					0.33887		NO	
30	Total HxCDFs	373.8208	1.000		0.00	1.21829		0.1276	~~0.0647~~		~~0.29909~~ 0.339			
31														

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: X:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Wednesday, March 03, 2010 10:07:47 Pacific Standard Time
Printed: Wednesday, March 03, 2010 10:08:32 Pacific Standard Time

Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB, Task:

#	Name	Trace	Sample Size	RT	Prd.RT	RRF M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
32	13C-1,2,3,6,7,8-HxCDD	401.8559	1.000	32.70	32.69	0.89936	1421123.13	1714.5383	1714.5383	85.7	2.11376	1.28	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	1.000		32.62	0.90180					0.50131		NO	
34	1,2,3,6,7,8-HxCDD	389.8157	1.000		32.71	1.09904					0.41134		NO	
35	1,2,3,7,8,9-HxCDD	389.8157	1.000		33.00	1.06390					0.42493		NO	
36	Total HxCDDs	389.8157	1.000		0.00	1.02158					~~0.25764~~ 0.501			
37														
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	1.000	34.52	34.52	0.84273	1465239.38	1886.5518	1886.5518	94.3	3.74427	0.47	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	1.000	34.54	34.53	1.30670	598.40	0.6251	0.5430 JQ		0.38630	1.35	YES	03-Mar-10
40	1,2,3,4,7,8,9-HpCDF	407.7818	1.000		35.66	1.06434					0.47426		NO	
41	Total HpCDFs	407.7818	1.000		0.00	1.18552		0.6251	0.5430		0.42578			
42														
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	1.000	35.34	35.34	0.79749	1513088.56	2058.6926	2058.6926	102.9	2.83557	1.02	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	1.000	35.35	35.35	0.99684	810.54	1.0748	0.8952 JQ		0.63916	0.74	YES	
45	Total HpCDDs	423.7766	1.000		0.01	0.99684		2.9845	✓2.5456		0.63916			
46														
47	13C-OCDD	469.7779	1.000	37.86	37.87	0.59869	1955306.81	3543.7663	3543.7663	88.6	3.98692	0.89	NO	
48	OCDF	441.7428	1.000	37.99	37.98	1.26224	916.92	1.4861	1.4861 J		0.43745	0.82	NO	03-Mar-10
49	OCDD	457.7377	1.000	37.89	37.87	1.11522	2160.90	3.9639	3.9639		0.46316	0.97	NO	
50														
51														
52	Function 1 PFK	330.97920	1.000		0.00	11489....					0.00000			
53	Function 2 PFK	342.97920	1.000		0.00	9733.6...					0.00000			
54	Function 3 PFK	380.97600	1.000		0.00	5225.1...					0.00000			
55	Function 4 PFK	430.97290	1.000		0.00	4454.8...					0.00000			
56	Function 5 PFK	442.97280	1.000		0.00	3910.7...					0.00000			
57	TCDF PCDPE	375.8364	1.000		0.00	45.934...					0.00000			
58	F1 PeCDF PCDPE	409.79740	1.000		0.00	76.179...					0.00000			
59	F2 PeCDF PCDPE	409.7974	1.000		0.00	92.309...					0.00000			
60	HXCDF PCDPE	445.7555	1.000		0.00	77.611...					0.00000			
61	HPCDF PCDPE	479.7165	1.000		0.00	88.953...					0.00000			
62	OCDF PCDPE	513.67750	1.000		0.00	102.26...					0.00000			

Quantify Totals Report MassLynx 4.1

Dataset: X:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Wednesday, March 03, 2010 10:07:47 Pacific Standard Time
Printed: Wednesday, March 03, 2010 10:08:32 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 02 Mar 2010 14:08:15
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB, Task:

Total TCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1	5	Total TCDFs	303.9016	15.92	228.452	0.1850	0.0908	0.92135	0.1779	2.607	0.770	YES	2.202
2	5	Total TCDFs	303.9016	19.14	170.751	0.1383	0.0895	0.92135	0.1779	0.392	0.770	YES	2.813
3	4	2,3,7,8-TCDF	303.9016	18.60	344.277	0.2788	0.2408	0.92135	0.1779	1.049	0.770	YES	5.128
4	5	Total TCDFs	303.9016	18.17	291.145	0.2358	0.2358	0.92135	0.1779	0.833	0.770	NO	4.804

Total TCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1													

Total F2 PeCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1													

Total F1 PeCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1													

Total PeCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1	21	Total PeCDDs	355.8546	22.90	16.526	0.0230	0.0213	0.96958	0.6835	1.297	1.550	YES	0.900

Total HxCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1	30	Total HxCDFs	373.8208	33.82	116.588	0.1276	0.0647	1.21829	0.2991	0.390	1.240	YES	3.720

Quantify Totals Report MassLynx 4.1

Dataset: X:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Wednesday, March 03, 2010 10:07:47 Pacific Standard Time
Printed: Wednesday, March 03, 2010 10:08:32 Pacific Standard Time

Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB, Task:

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1													

Total HxCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1													

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1													

Total HpCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1	39	1,2,3,4,6,7,8-H...	407.7818	34.54	598.400	0.6251	0.5430	1.30670	0.3863	1.349	1.040	YES	3.723

Total HpCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1	44	1,2,3,4,6,7,8-H...	423.7766	35.35	810.541	1.0748	0.8952	0.99684	0.6392	0.738	1.040	YES	7.061
2	45	Total HpCDDs	423.7766	34.78	1440.217	1.9097	1.6504	0.99684	0.6392	1.360	1.040	YES	9.350

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld 41 45 48

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:13:21 Pacific Standard Time

JRB 3/2/10

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 01 Mar 2010 16:44:35
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB, Task:

#	Name	Trace	Sample Size	RT	Prd.RT	RRF	M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Prd.Ratio	Ratio ...	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	1.000	19.14	19.14	1.000		2255693.13	2000.0000	2000.0000	100.0	1.1195	0.777	0.770	NO	
2																
3	13C-2,3,7,8-TCDF	315.9419	1.000	18.57	18.55	1.402		2680479.00	1695.5049	1695.5049	84.8	0.6994	0.798	0.770	NO	
4	2,3,7,8-TCDF	303.9016	1.000	18.60	18.58	0.921		344.28	0.2788 DL	0.2408		~~0.1779~~	1.049	0.770	YES	
5	Total TCDFs	303.9016	1.000		21.44	0.921			0.28 ~~0.8379~~ DL	0.6569		0.1779				
6																
7	13C-2,3,7,8-TCDD	331.9368	1.000	19.35	19.35	0.950		1822656.69	1701.7998	1701.7998	85.1	1.1789	0.790	0.770	NO	
8	2,3,7,8-TCDD	319.8965	1.000		19.37	1.039						0.3772		0.770	NO	
9	Total TCDDs	319.8965	1.000		19.55	1.039						~~0.1894~~ 0.38				
10																
11	37CL-2,3,7,8-TCDD	327.8847	1.000	19.37	19.37	1.145		856986.13	663.8216	0.0000	83.0	0.3461				
12																
13	13C-1,2,3,7,8-PeCDF	351.9000	1.000	24.16	24.14	1.117		2172664.88	1724.9665	1724.9665	86.2	1.9478	1.578	1.550	NO	
14	1,2,3,7,8-PeCDF	339.8597	1.000		24.20	0.989						0.3216		1.550	NO	
15	2,3,4,7,8-PeCDF	339.8597	1.000	26.03	25.67	0.949		77.96	~~0.0756~~	0.0347		0.3351	0.387	1.550	YES	
16	Total F2 PeCDFs	339.8597	1.000		34.47	0.969			~~0.2225~~	0.1269		~~0.3282~~ 0.34				
17	Total F1 PeCDFs	339.8597	1.000		36.56	0.969						~~0.1273~~				
18																
19	13C-1,2,3,7,8-PeCDD	367.8949	1.000	26.45	26.44	0.776		1483889.19	1695.4105	1695.4105	84.8	1.3877	1.654	1.550	NO	
20	1,2,3,7,8-PeCDD	355.8546	1.000		26.47	0.970						0.6835		1.550	NO	
21	Total PeCDDs	355.8546	1.000		31.10	0.970			~~0.0230~~	0.0213		0.6835				
22																
23	13C-1,2,3,7,8,9-HxCDD	401.8559	1.000	32.98	32.97	1.000		1843230.44	2000.0000	2000.0000	100.0	1.9010	1.284	1.240	NO	
24																
25	13C-1,2,3,4,7,8-HxCDF	383.8639	1.000	31.75	31.75	0.972		1499475.38	1674.1725	1674.1725	83.7	2.8994	0.520	0.510	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	1.000		31.77	1.200						0.3035		1.240	NO	
27	1,2,3,6,7,8-HxCDF	373.8208	1.000		31.87	1.341						0.2718		1.240	NO	
28	2,3,4,6,7,8-HxCDF	373.8208	1.000		32.49	1.257						0.2900		1.240	NO	
29	1,2,3,7,8,9-HxCDF	373.8208	1.000		33.16	1.075						0.3389		1.240	NO	
30	Total HxCDFs	373.8208	1.000		0.00	1.218			~~0.2369~~	0.1790		~~0.2991~~ 0.34				
31																

TestAmerica West Sacramento (916) 373 - 5600

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:13:21 Pacific Standard Time

Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB, Task:

#	Name	Trace	Sample Size	RT	Prd.RT	RRF	M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Prd.Ratio	Ratio ...	Mod Date
32	13C-1,2,3,6,7,8-HxCDD	401.8559	1.000	32.70	32.69	0.899		1421123.13	1714.5383	1714.5383	85.7	2.1138	1.277	1.240	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	1.000		32.62	0.902						0.5013		1.240	NO	
34	1,2,3,6,7,8-HxCDD	389.8157	1.000		32.71	1.099						0.4113		1.240	NO	
35	1,2,3,7,8,9-HxCDD	389.8157	1.000		33.00	1.064						0.4249		1.240	NO	
36	Total HxCDDs	389.8157	1.000		0.00	1.022						~~0.2576~~ 0.50				
37																
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	1.000	34.52	34.52	0.843		1465239.38	1886.5518	1886.5518	94.3	3.7443	0.465	0.440	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	1.000	34.54	34.53	1.307		332.82	~~0.3477~~	0.3156		0.3863	0.862	1.040	YES	
40	1,2,3,4,7,8,9-HpCDF	407.7818	1.000		35.66	1.064						0.4743		1.040	NO	
41	Total HpCDFs	407.7818	1.000		0.00	1.186			~~0.9326~~	0.6365		~~0.4256~~ 0.47				
42																
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	1.000	35.34	35.34	0.797		1513088.56	2058.6926	2058.6926	102.9	2.8356	1.025	1.040	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	1.000	35.35	35.35	0.997		810.54	1.0748 DL	0.8952		~~0.6392~~	0.738	1.040	YES	
45	Total HpCDDs	423.7766	1.000		0.01	0.997		1.7	~~2.7770~~ DL	2.5974		~~0.6392~~				
46																
47	13C-OCDD	469.7779	1.000	37.86	37.87	0.599		1955306.81	3543.7663	3543.7663	88.6	3.9869	0.894	0.890	NO	
48	OCDF	441.7428	1.000	37.99	37.98	1.262		813.85	1.3190 DL	1.0667		~~0.4374~~	0.615	0.890	YES	
49	OCDD	457.7377	1.000	37.89	37.88	1.115		2160.90	3.9639 DL	3.9639		~~0.4632~~	0.974	0.890	NO	
50																
51																
52	Function 1 PFK	330.97920	1.000	18.22	18.17	11489....		3906.05	0.3400		34.0	1.1894				
53	Function 2 PFK	342.97920	1.000		25.55	9733.6...						0.0000				
54	Function 3 PFK	380.97600	1.000	32.33	32.30	5225.1...		5217.04	0.9985		99.8	2.3345				
55	Function 4 PFK	430.97290	1.000	34.61	34.60	4454.8...		2881.39	0.6468		64.7	1.4026				
56	Function 5 PFK	442.97280	1.000	38.53	38.49	3910.7...		4377.98	1.1195		111.9	3.5722				
57	TCDF PCDPE	375.8364	1.000		21.12	45.934						0.0000				
58	F1 PeCDF PCDPE	409.79740	1.000	18.81	18.83	76.179		18.44	0.2421		24.2	0.6961				
59	F2 PeCDF PCDPE	409.7974	1.000	23.17	23.23	92.309		58.55	0.6343		63.4	0.4189				
60	HXCDF PCDPE	445.7555	1.000		33.73	77.611						0.0000				
61	HPCDF PCDPE	479.7165	1.000	34.59	34.51	88.954		132.25	1.4868		148.7	0.8600				
62	OCDF PCDPE	513.67750	1.000	39.61	39.62	102.269		63.88	0.6246		62.5	0.1540				

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:13:58 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 01 Mar 2010 16:44:35
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB, Task:

Total TCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Meas	EDL	Ratio	Ratio(L)	Ratio	S/N
1	5	Total TCDFs	303.9016	15.92	228.452	0.1850	0.0908	0.92135	0.1779	2.607	0.770	YES	2.202
2	5	Total TCDFs	303.9016	19.14	170.751	0.1383	0.0895	0.92135	0.1779	0.392	0.770	YES	2.813
3	4	2,3,7,8-TCDF	303.9016	18.60	344.277	0.2788	0.2408	0.92135	0.1779	1.049	0.770	YES	5.128
4	5	Total TCDFs	303.9016	18.18	291.145	0.2358	0.2358	0.92135	0.1779	0.833	0.770	NO	4.804

Total TCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Meas	EDL	Ratio	Ratio(L)	Ratio	S/N
1													

Total F2 PeCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Meas	EDL	Ratio	Ratio(L)	Ratio	S/N
1	...	Total F2 PeCD...	339.8597	27.97	42.255	0.0401	0.0144	0.96932	0.3282	0.280	1.550	YES	1.611
2	...	2,3,4,7,8-PeCDF	339.8597	26.03	77.964	0.0756	0.0347	0.94936	0.3351	0.387	1.550	YES	1.776
3	...	Total F2 PeCD...	339.8597	23.48	112.460	0.1068	0.0777	0.96932	0.3282	2.504	1.550	YES	1.949

Total F1 PeCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Meas	EDL	Ratio	Ratio(L)	Ratio	S/N
1													

Total PeCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Meas	EDL	Ratio	Ratio(L)	Ratio	S/N
1	...	Total PeCDDs	355.8546	22.90	16.526	0.0230	0.0213	0.96958	0.6835	1.297	1.550	YES	0.900

Total HxCDFs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Meas	EDL	Ratio	Ratio(L)	Ratio	S/N
1	...	Total HxCDFs	373.8208	33.82	80.859	0.0885	0.0647	1.21829	0.2991	0.680	1.240	YES	1.761
2	...	Total HxCDFs	373.8208	33.73	137.368	0.1504	0.1143	1.21829	0.2991	1.948	1.240	YES	2.815

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Meas	EDL	Ratio	Ratio(L)	Ratio	S/N
1													

Total HxCDDs

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Meas	EDL	Ratio	Ratio(L)	Ratio	S/N
1													

	#	Name	Trace	RT	Abs Resp	Conc	EMPC	RRF Meas	EDL	Ratio	Ratio(L)	Ratio	S/N
1													

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:13:58 Pacific Standard Time

Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB, Task:

Total HpCDFs

#	Name	Target	RT	Area	Conc	Amount	Ion Ratio	Ratio	Ratio Error	Qual	S/N
1	... Total HpCDFs	407.7818	34.90	161.664	0.1861	0.0441	1.18552	0.4258	0.138	1.040	YES	3.775
2	... Total HpCDFs	407.7818	34.85	346.403	0.3988	0.2767	1.18552	0.4258	1.940	1.040	YES	3.450
3	... 1,2,3,4,6,7,8-H...	407.7818	34.54	332.822	0.3477	0.3156	1.30670	0.3863	0.862	1.040	YES	3.051

Total HpCDDs

#	Name	Target	RT	Area	Conc	Amount	Ion Ratio	Ratio	Ratio Error	Qual	S/N
1	... 1,2,3,4,6,7,8-H...	423.7766	35.35	810.541	1.0748	0.8952	0.99684	0.6392	0.738	1.040	YES	7.061
2	... Total HpCDDs	423.7766	34.78	1283.751	1.7022	1.7022	0.99684	0.6392	1.104	1.040	NO	9.350

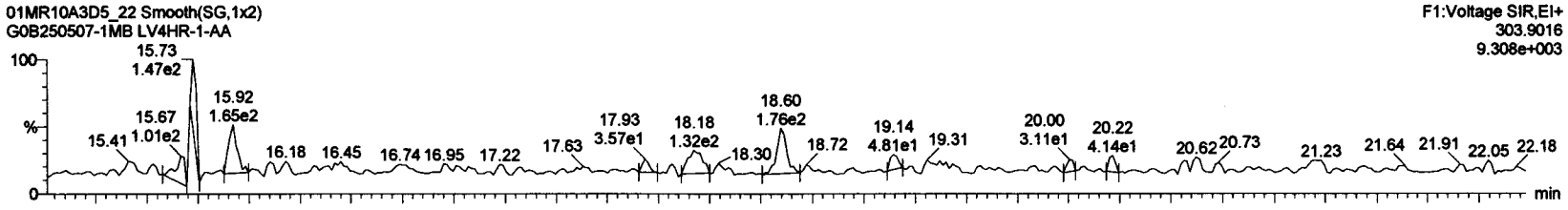
Quantify Sample Report **MassLynx 4.1**

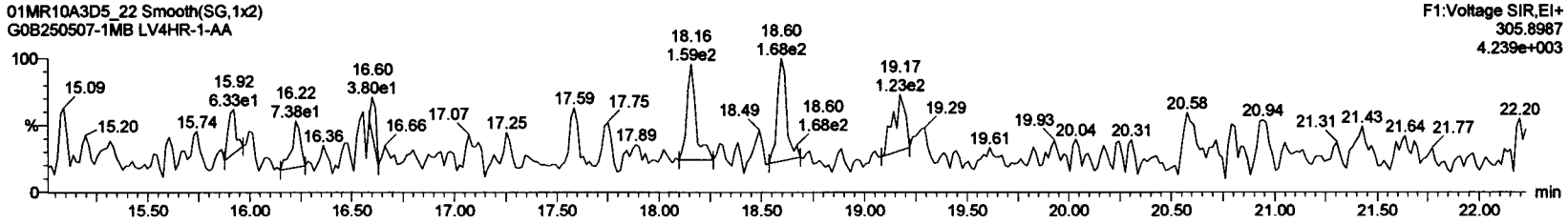
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

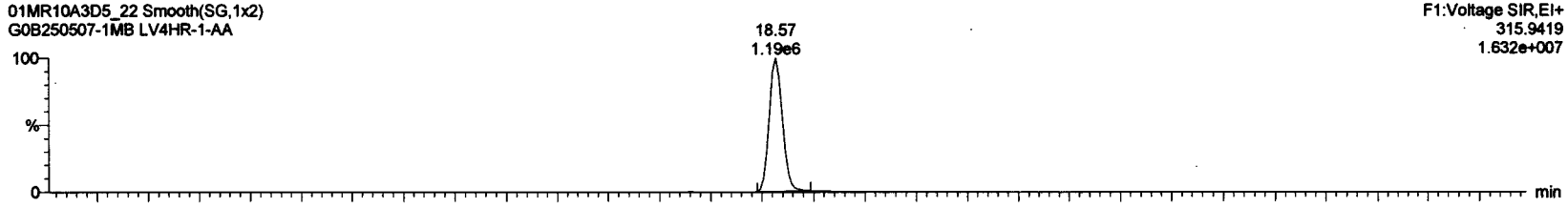
Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

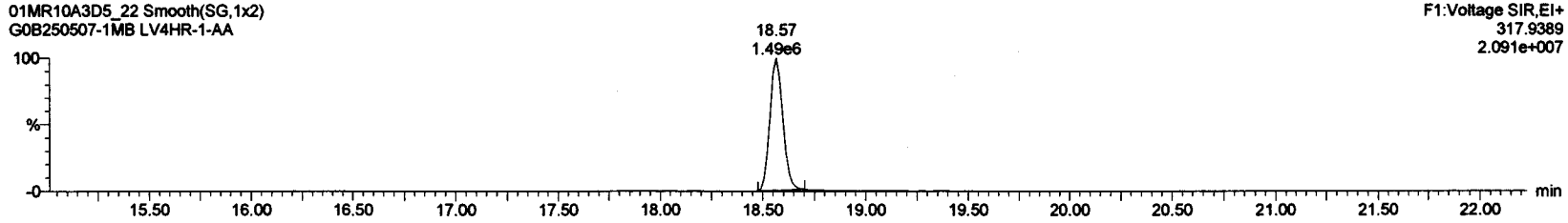
TCDFs





13C-TCDF





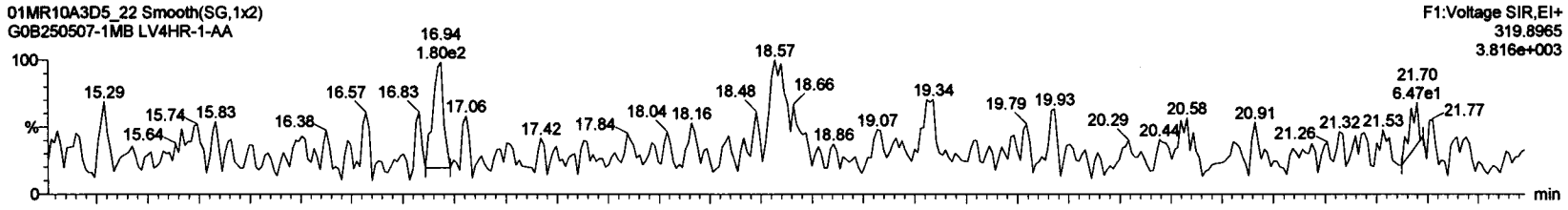
Quantify Sample Report **MassLynx 4.1**

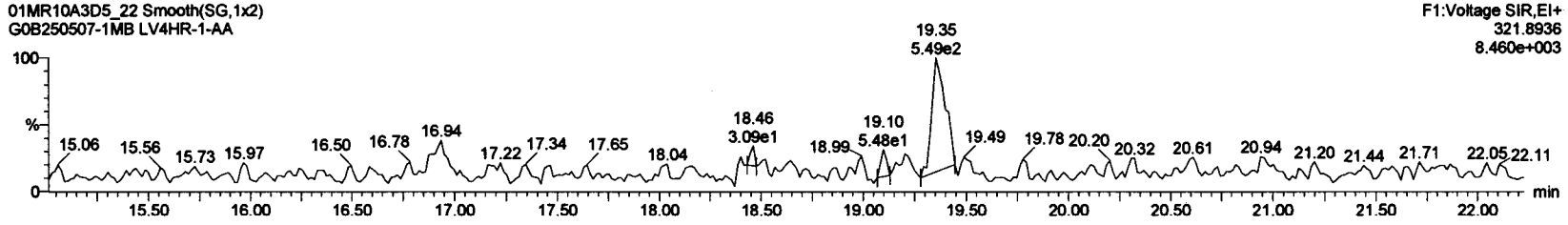
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

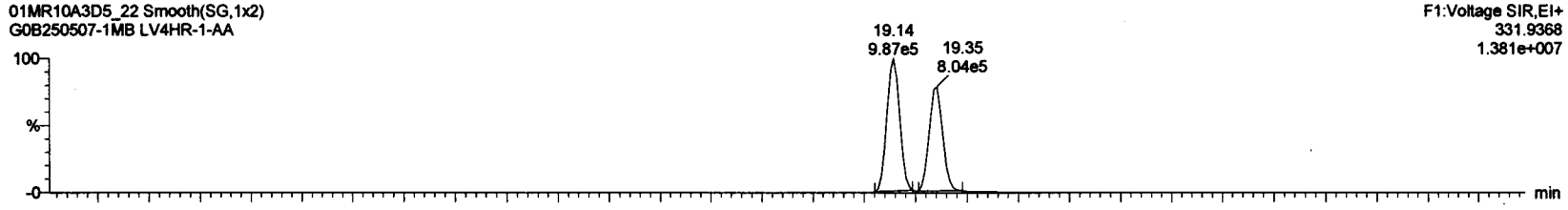
Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

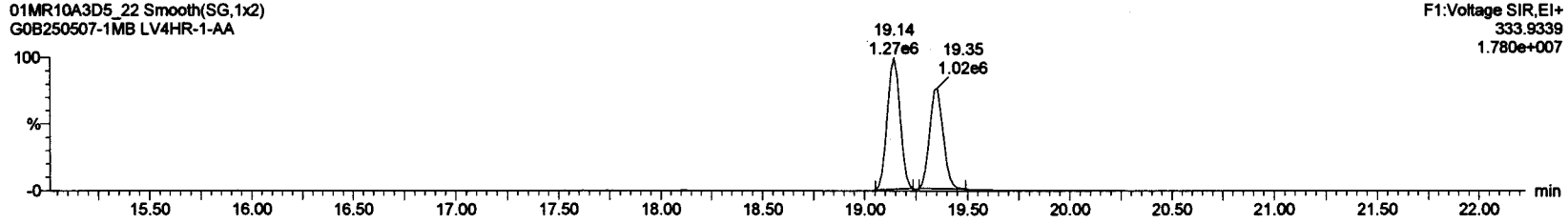
TCDDs





13C-TCDDs





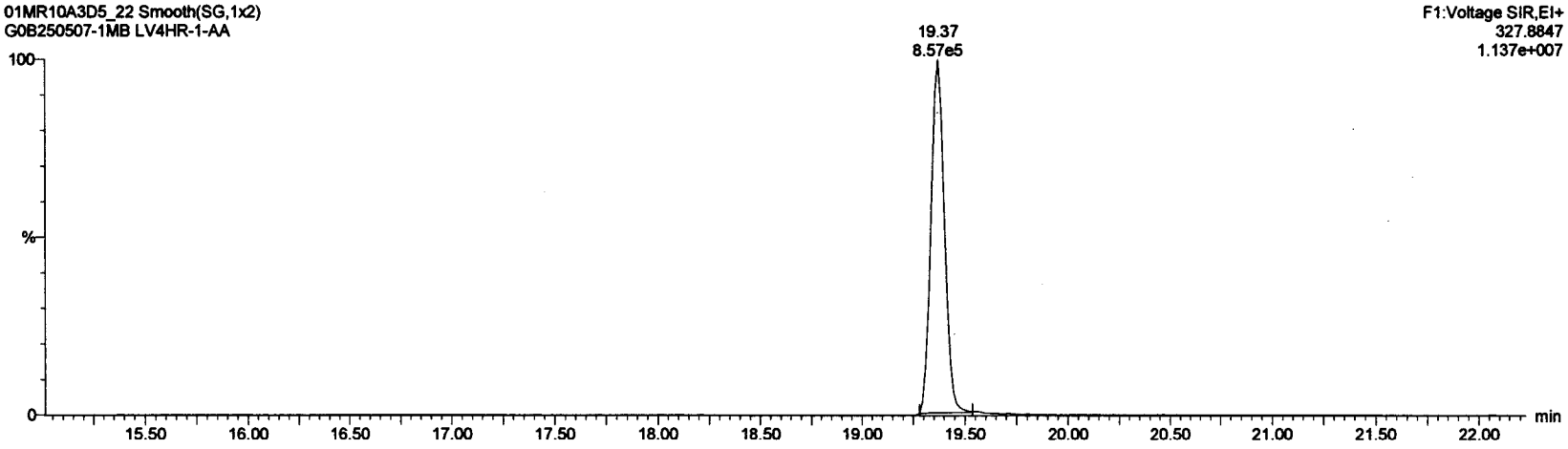
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

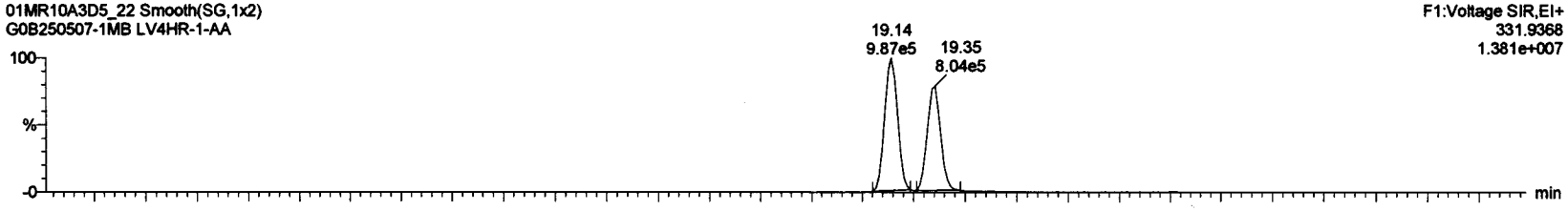
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

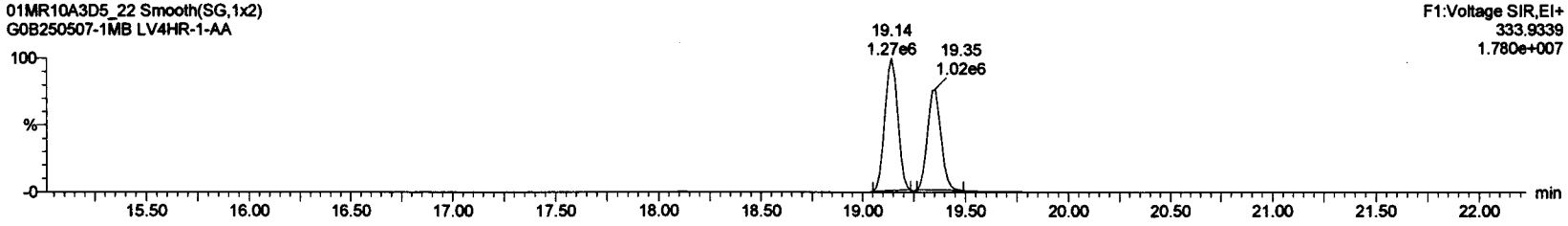
Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

37CL-2,3,7,8-TCDD



13C-TCDDs





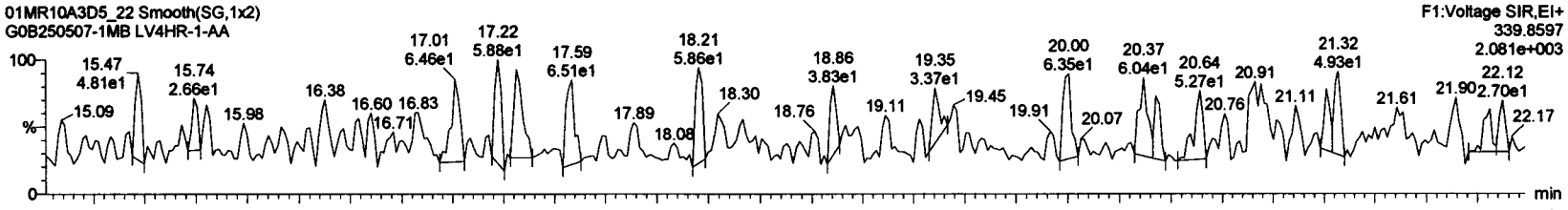
Quantify Sample Report **MassLynx 4.1**

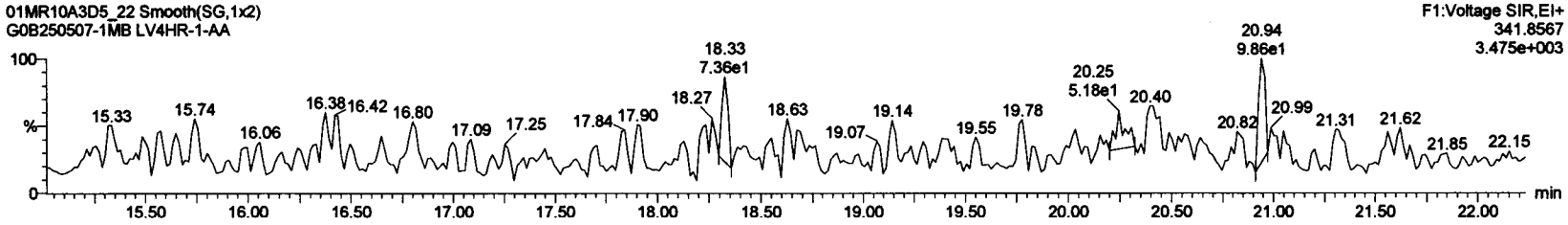
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

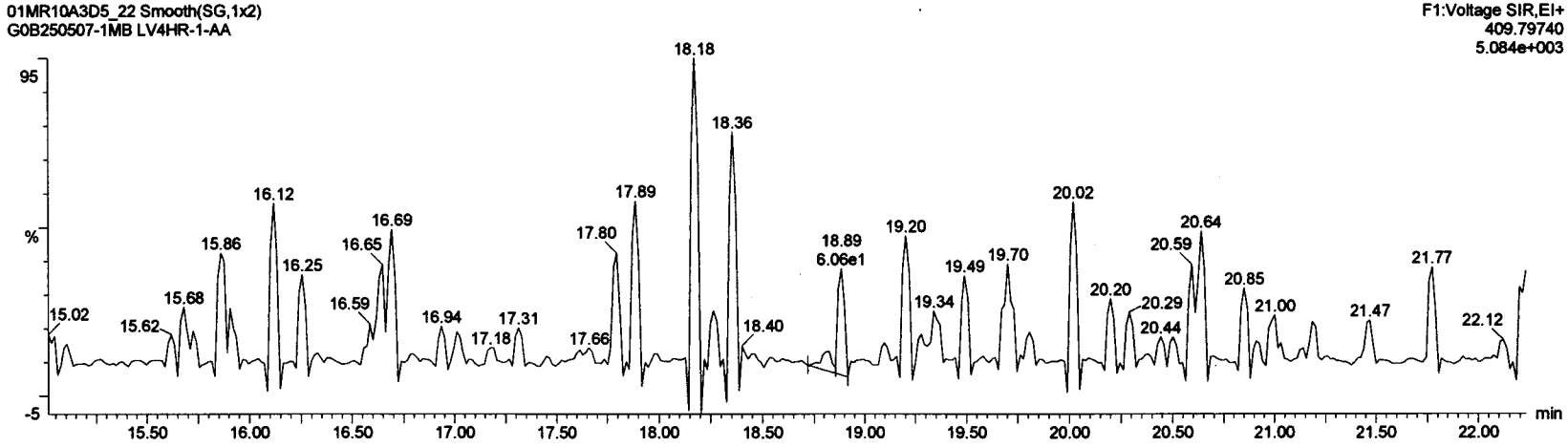
Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

F1 PeCDFs





F1 PeCDF PCDPE



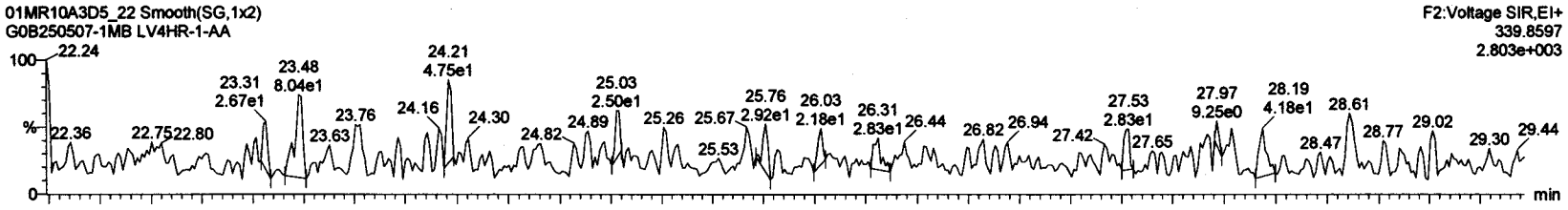
Quantify Sample Report **MassLynx 4.1**

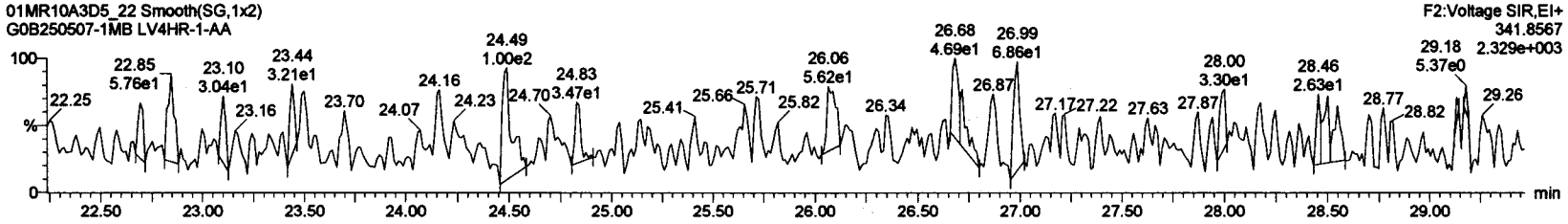
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

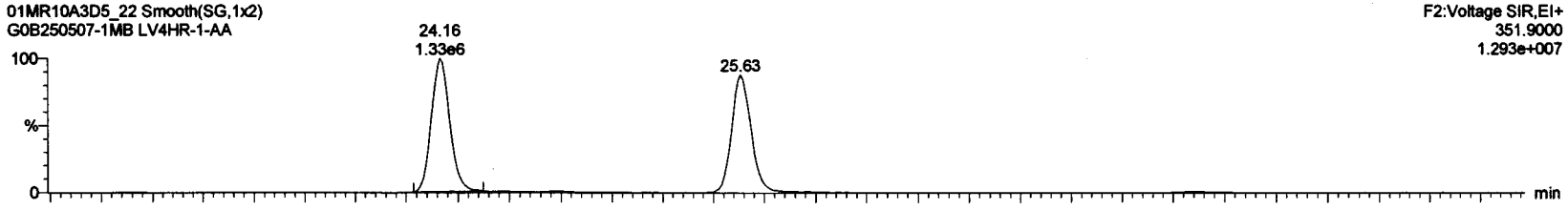
Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

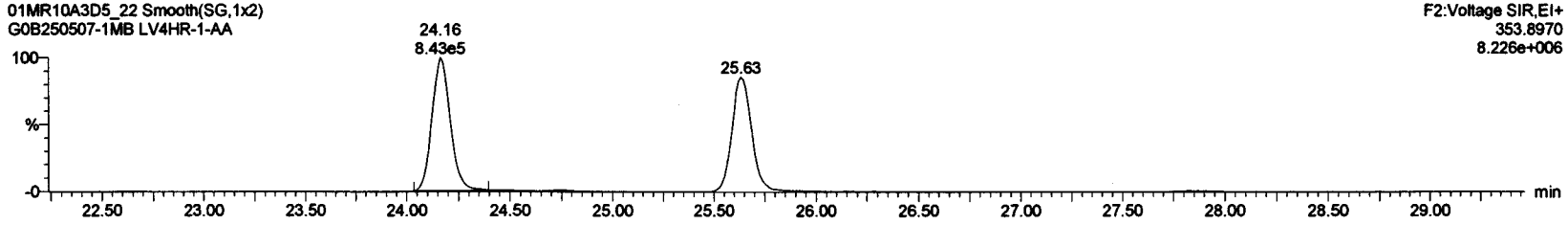
PeCDFs





13C-PeCDFs





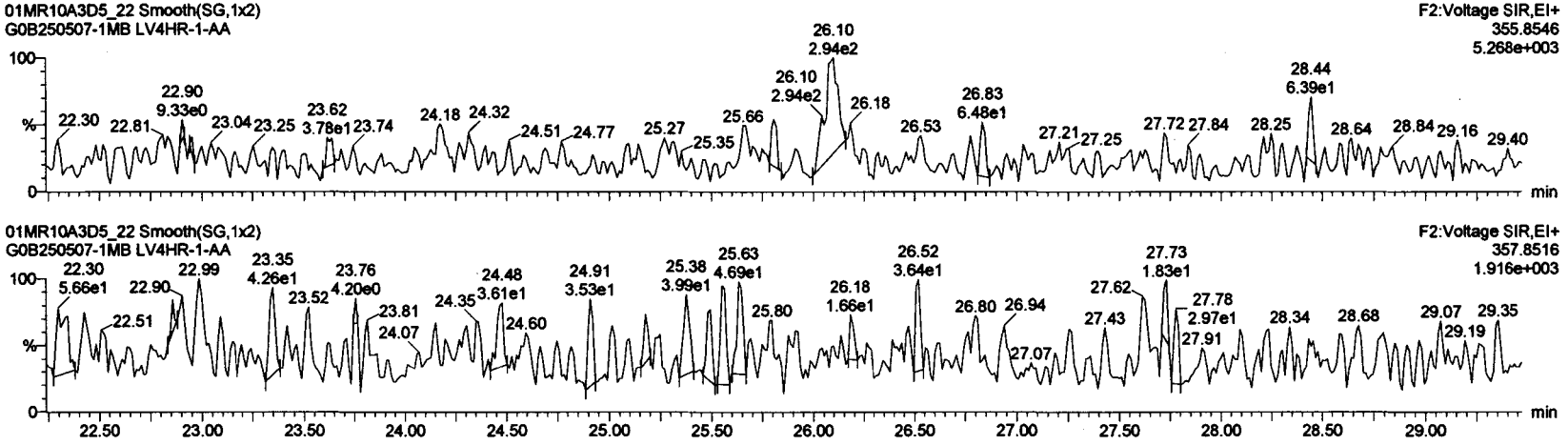
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

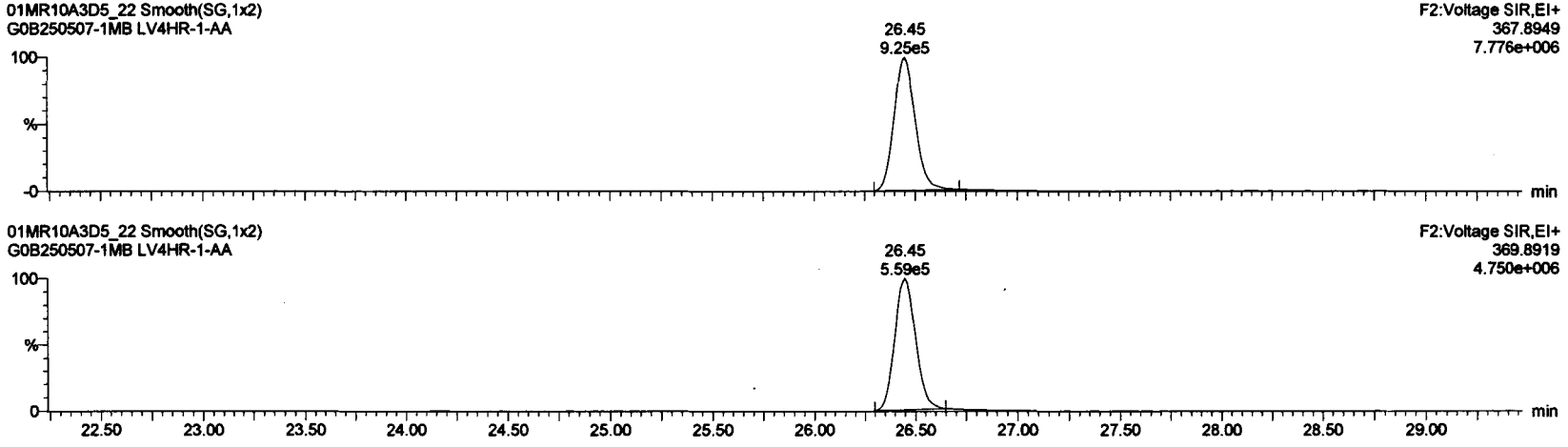
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

PeCDDs



13C-PeCDD



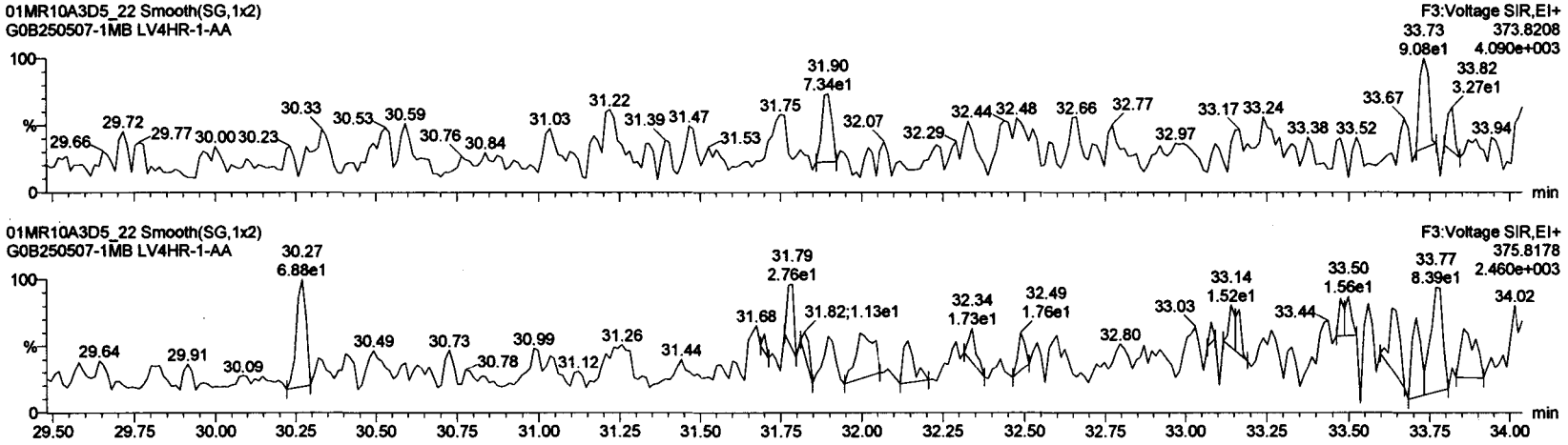
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

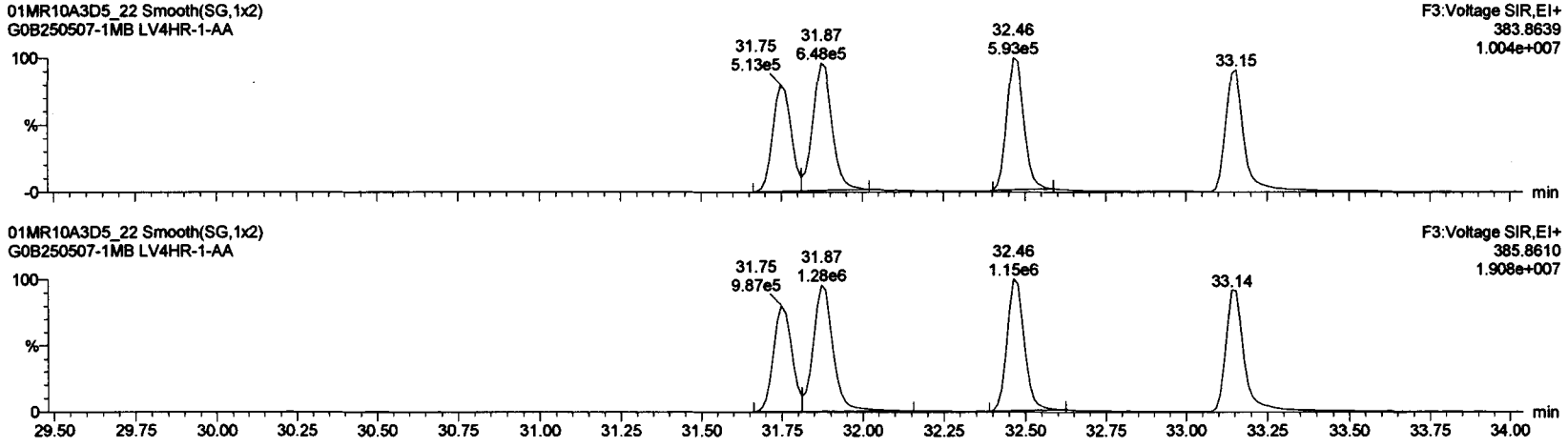
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

HxCDFs



13C-HxCDFs



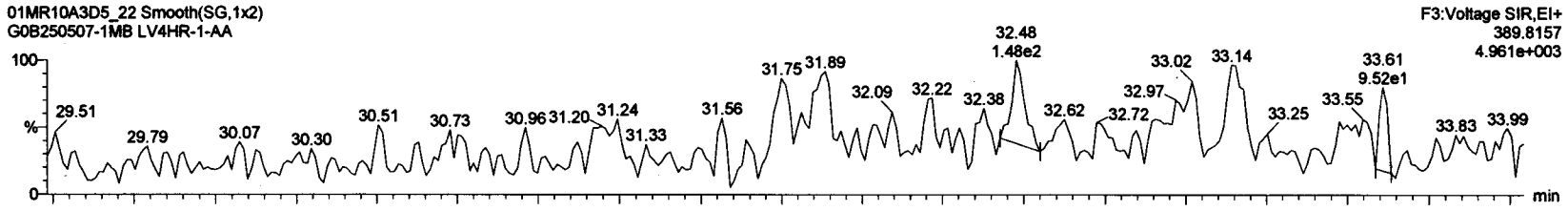
Quantify Sample Report **MassLynx 4.1**

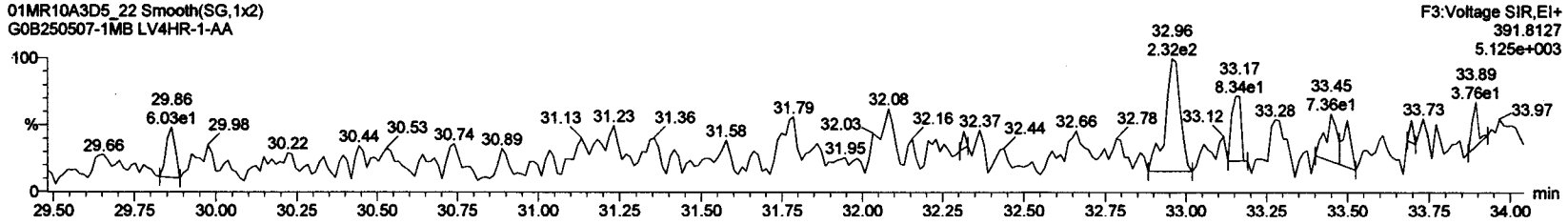
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

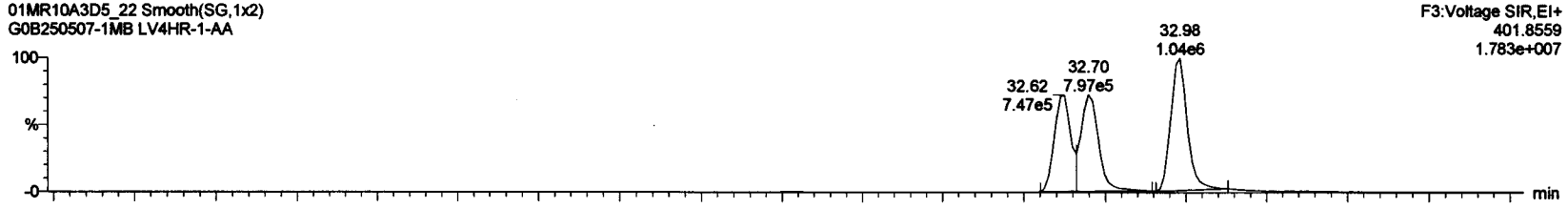
Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

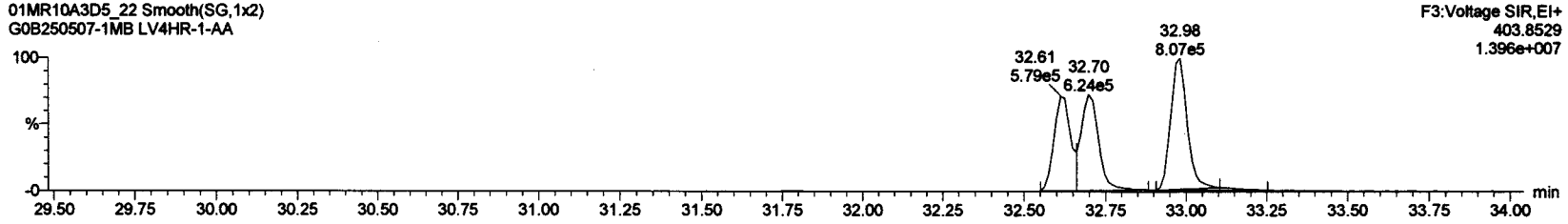
HxCDDs





13C-HxCDDs





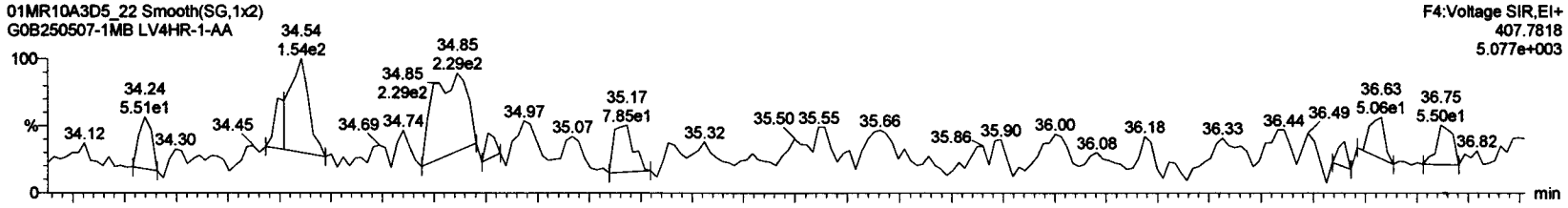
Quantify Sample Report **MassLynx 4.1**

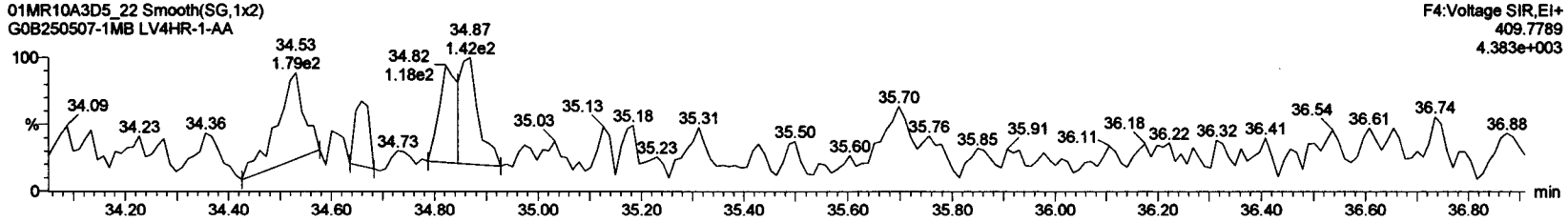
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

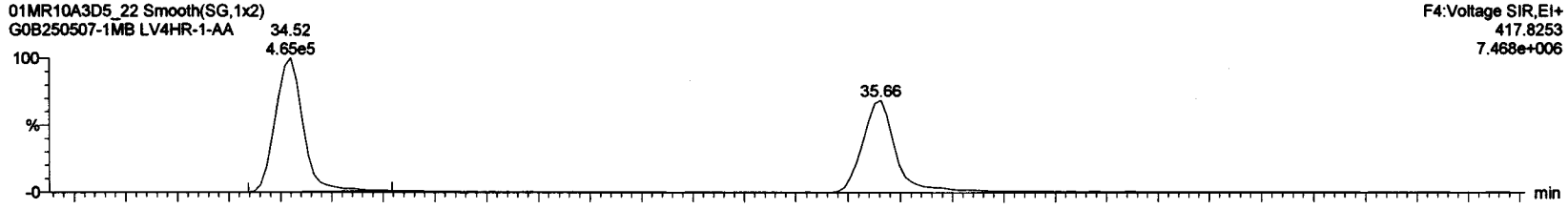
Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

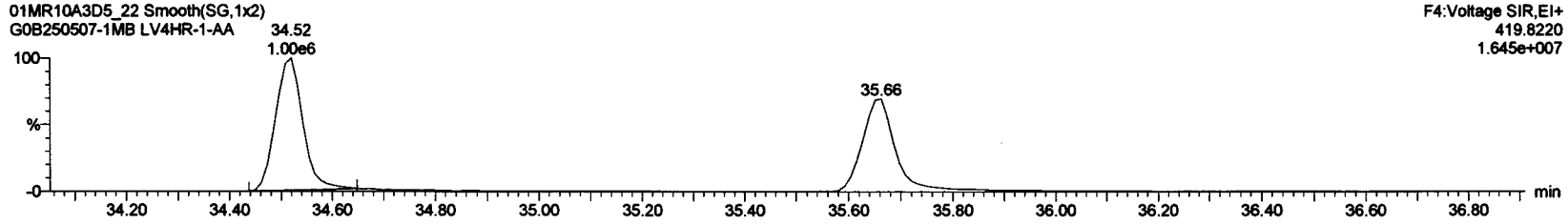
HpCDFs





13C-HpCDFs





Quantify Compound Report **MassLynx 4.1**

Dataset: X:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Wednesday, March 03, 2010 10:07:47 Pacific Standard Time
Printed: Wednesday, March 03, 2010 10:08:14 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 02 Mar 2010 14:08:15
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

Sample Name: 01MR10A3D5_22

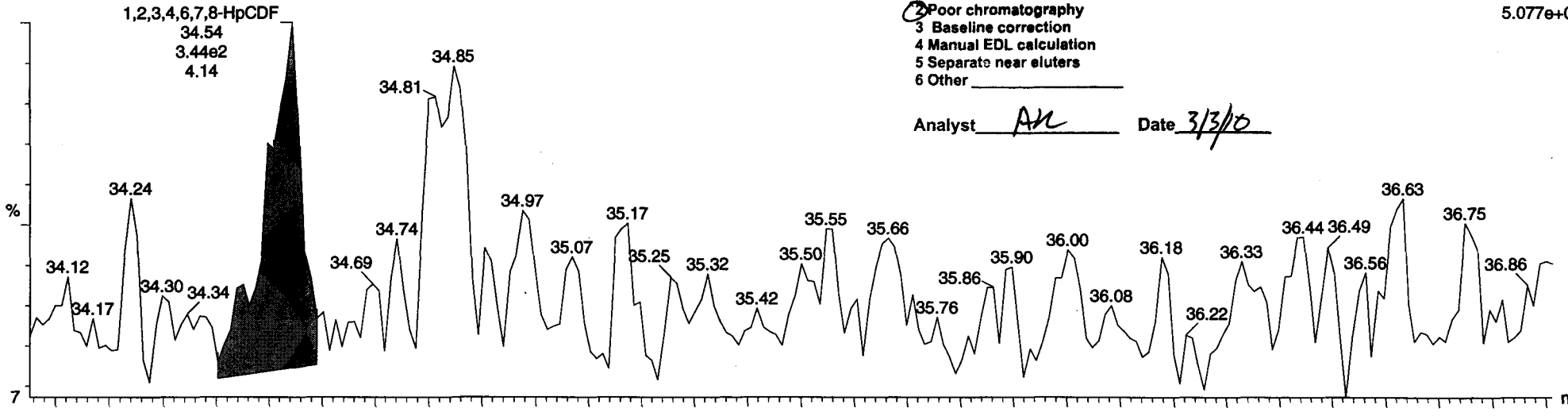
Manual Edit Codes

1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst AR Date 3/3/10

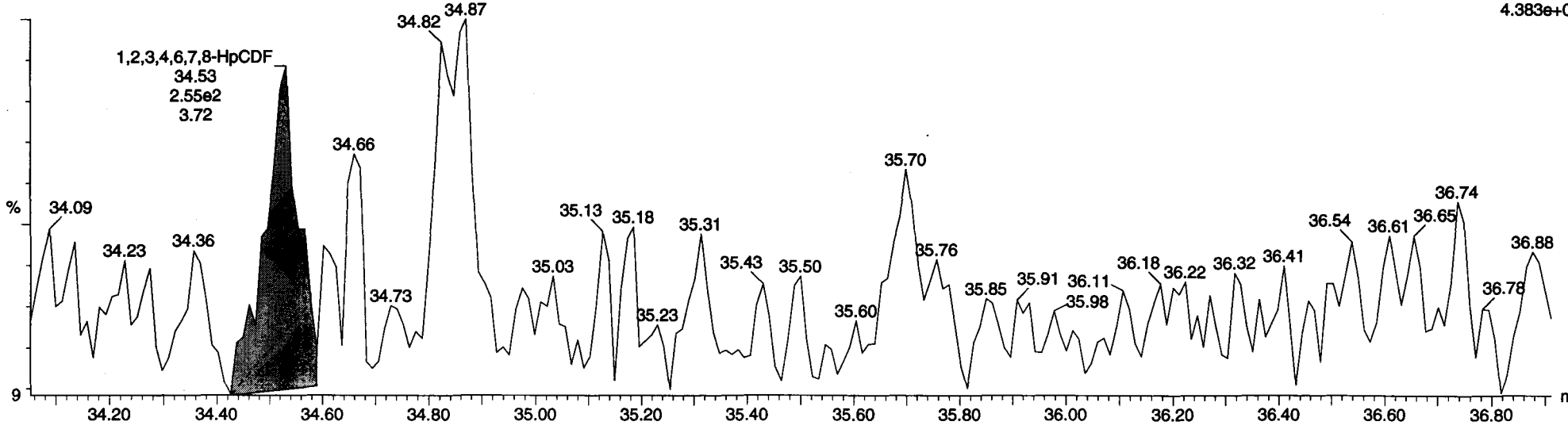
01MR10A3D5_22 Smooth(SG,1x2)
G0B250507-1MB LV4HR-1-AA

F4:Voltage SIR,EI+
407.7818
5.077e+003



01MR10A3D5_22 Smooth(SG,1x2)
G0B250507-1MB LV4HR-1-AA

F4:Voltage SIR,EI+
409.7789
4.383e+003



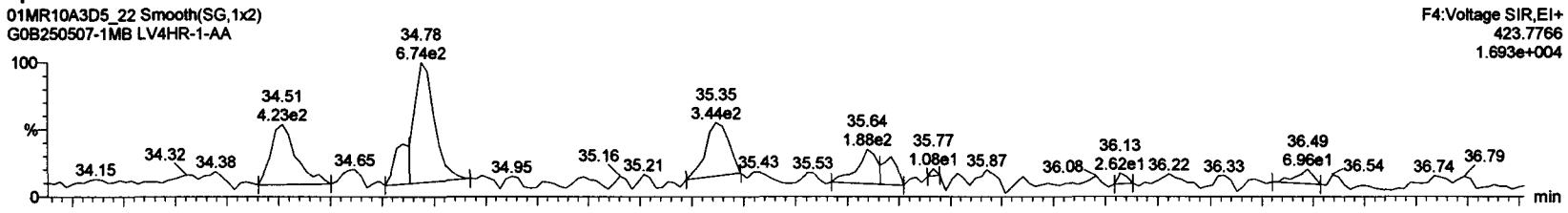
Quantify Sample Report **MassLynx 4.1**

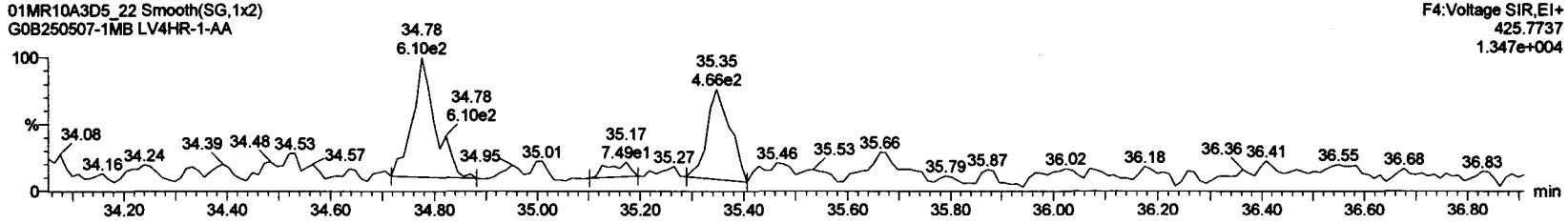
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

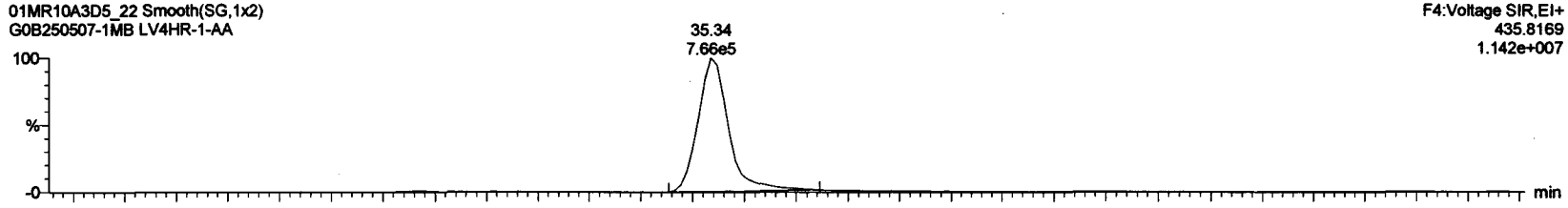
Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

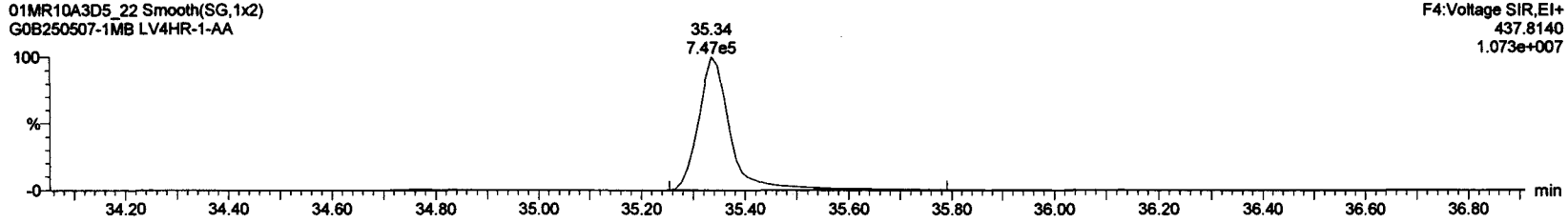
HpCDDs





13C-HpCDD





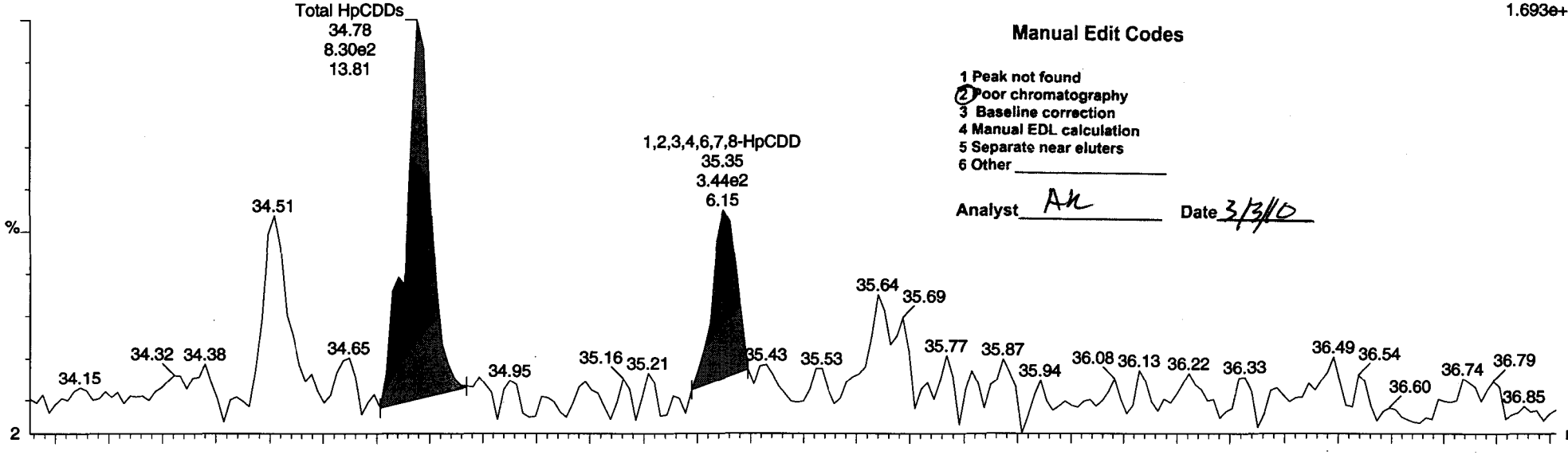
Dataset: X:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Wednesday, March 03, 2010 10:07:47 Pacific Standard Time
Printed: Wednesday, March 03, 2010 10:08:14 Pacific Standard Time

Sample Name: 01MR10A3D5_22

01MR10A3D5_22 Smooth(SG,1x2)
G0B250507-1MB LV4HR-1-AA

F4:Voltage SIR,EI+
423.7766
1.693e+004



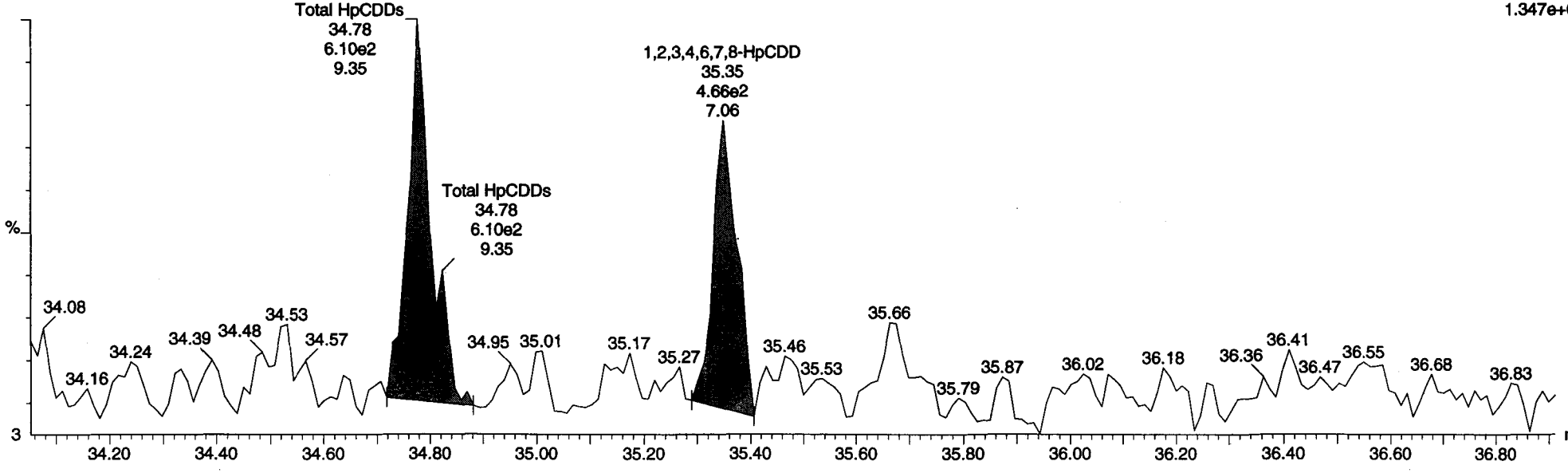
Manual Edit Codes

1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst AK Date 3/3/10

01MR10A3D5_22 Smooth(SG,1x2)
G0B250507-1MB LV4HR-1-AA

F4:Voltage SIR,EI+
425.7737
1.347e+003



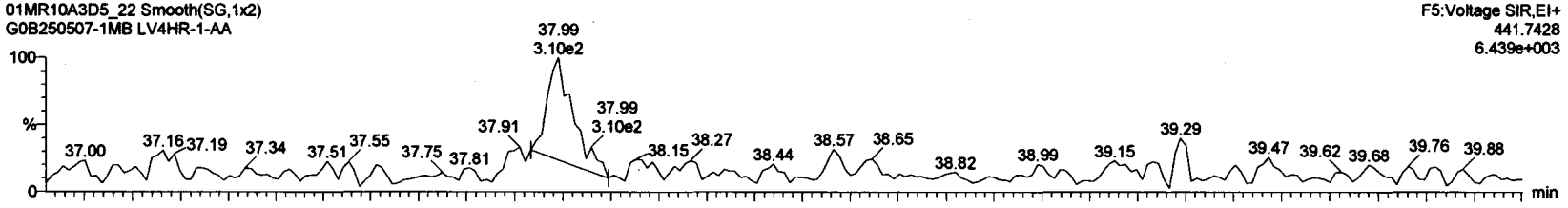
Quantify Sample Report **MassLynx 4.1**

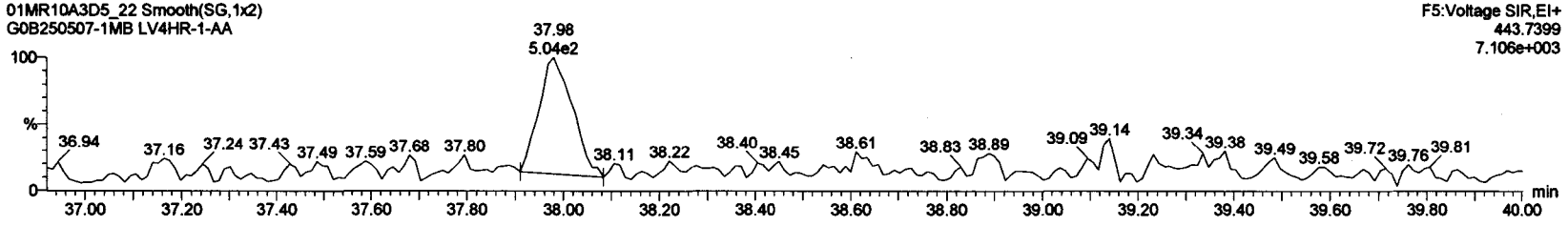
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

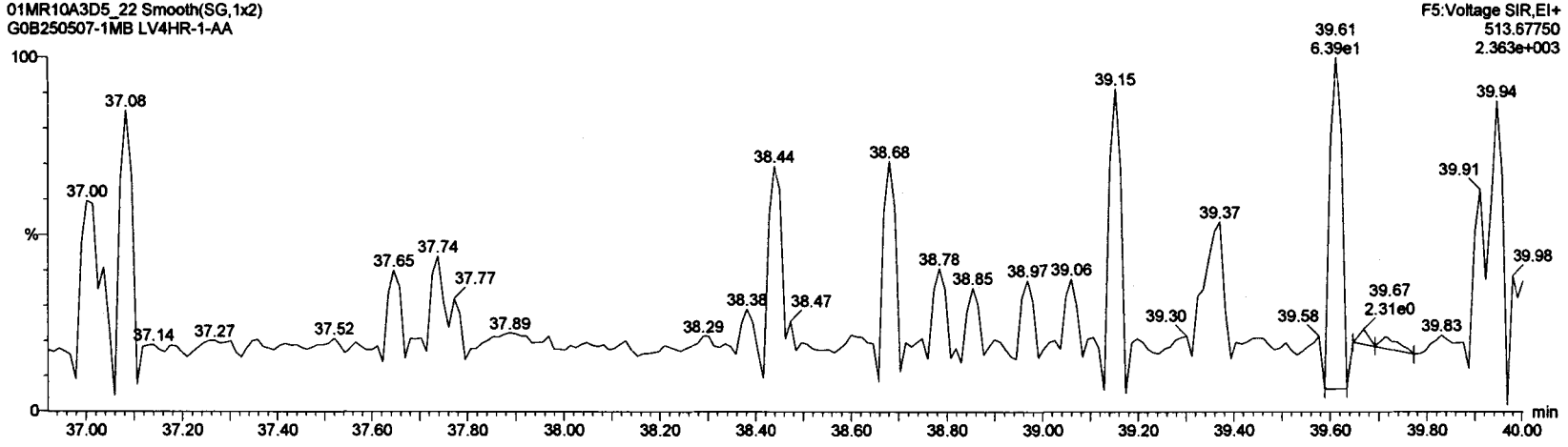
Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

OCDFs





OCDF PCDPE



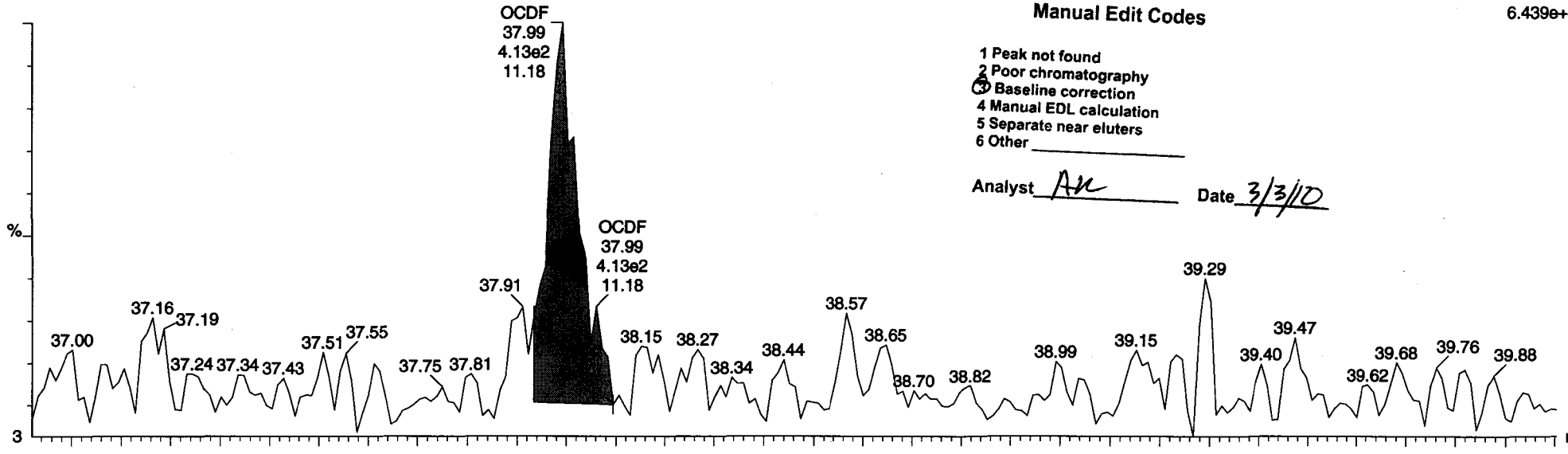
Dataset: X:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Wednesday, March 03, 2010 10:07:47 Pacific Standard Time
Printed: Wednesday, March 03, 2010 10:08:14 Pacific Standard Time

Sample Name: 01MR10A3D5_22

01MR10A3D5_22 Smooth(SG,1x2)
G0B250507-1MB LV4HR-1-AA

F5:Voltage SIR,EI+
441.7428
6.439e+003



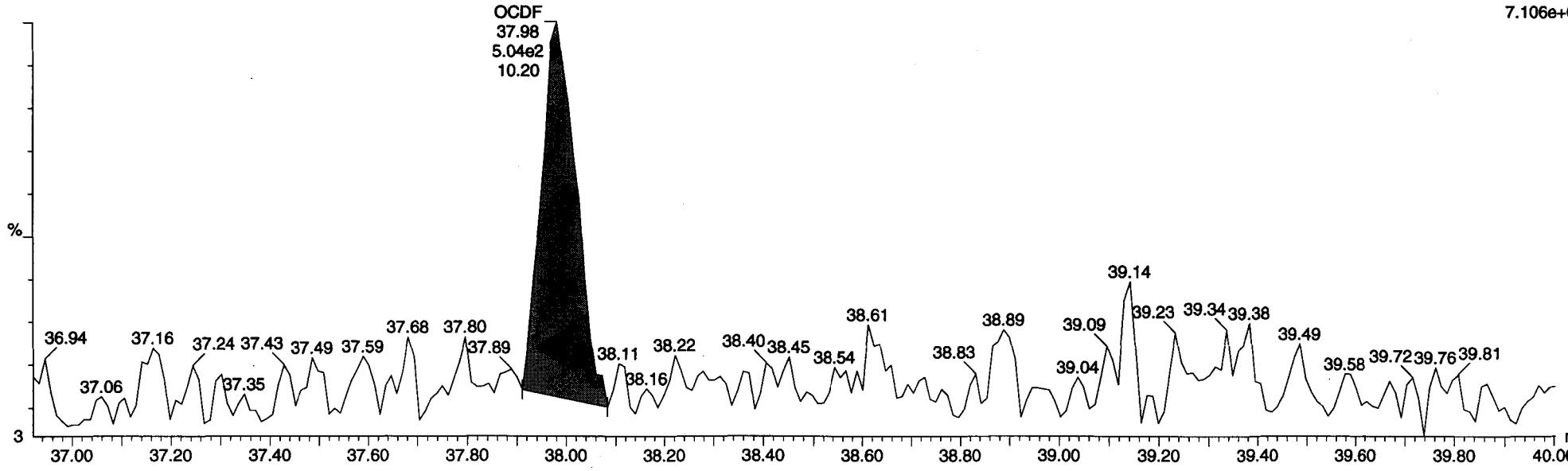
Manual Edit Codes

1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst AK Date 3/3/10

01MR10A3D5_22 Smooth(SG,1x2)
G0B250507-1MB LV4HR-1-AA

F5:Voltage SIR,EI+
443.7399
7.106e+003



Test America West Sacramento (916) 373 - 5600

G0B250507

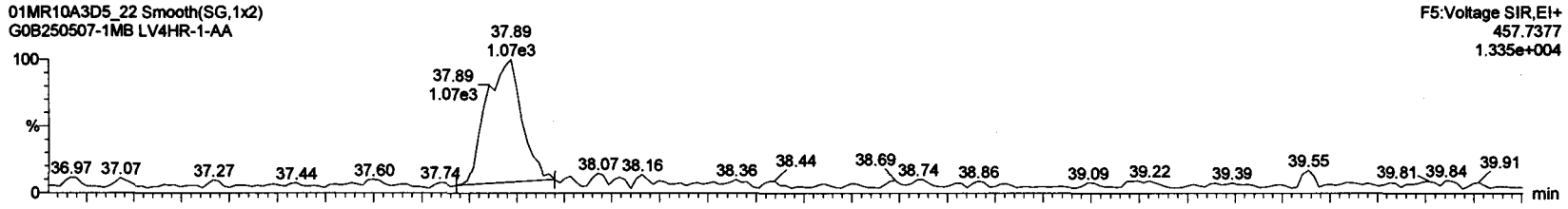
Quantify Sample Report **MassLynx 4.1**

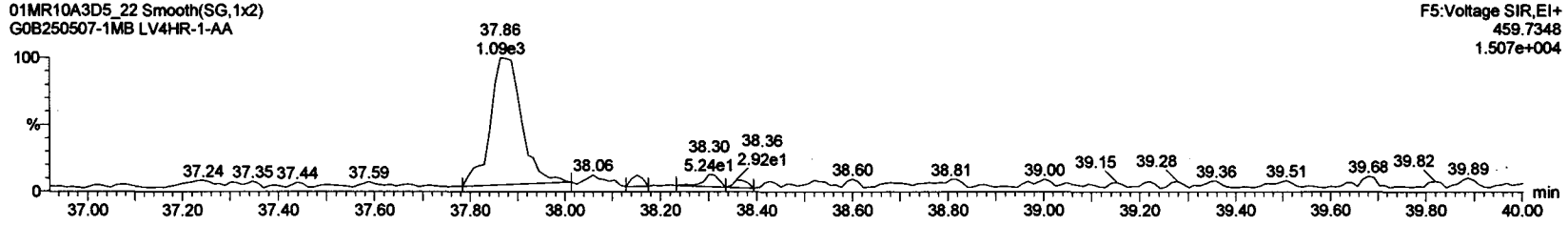
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

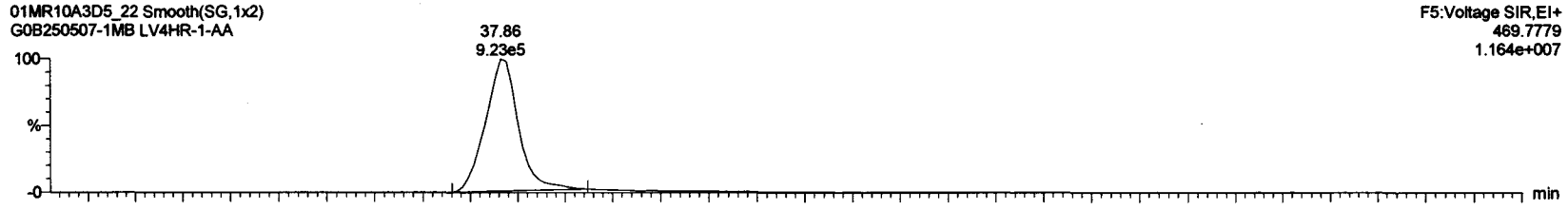
Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

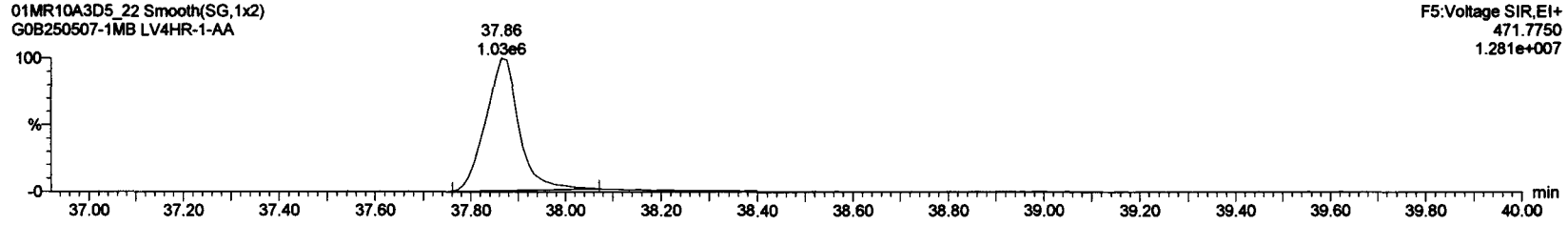
OCDD





13C-OCDD





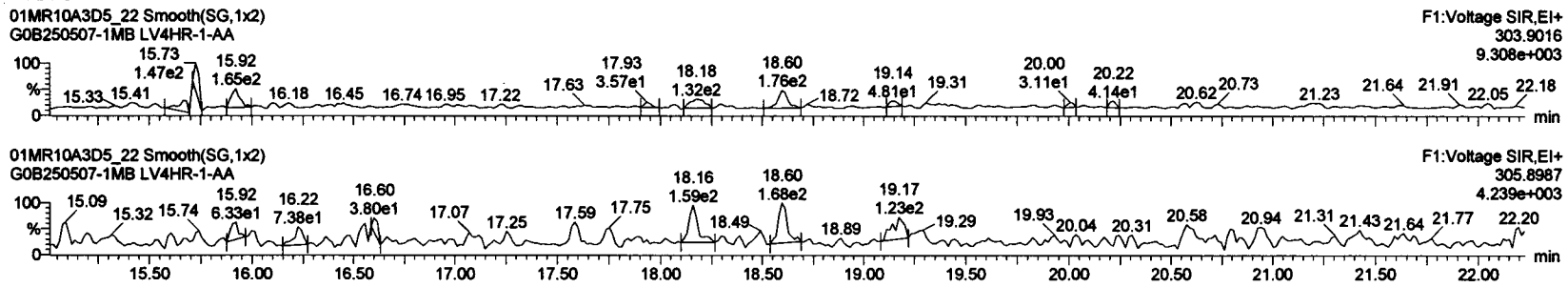
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

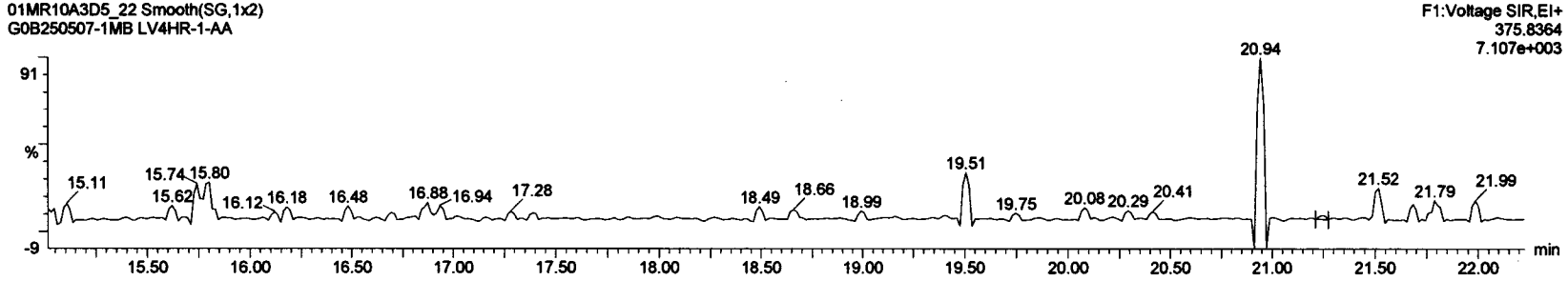
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

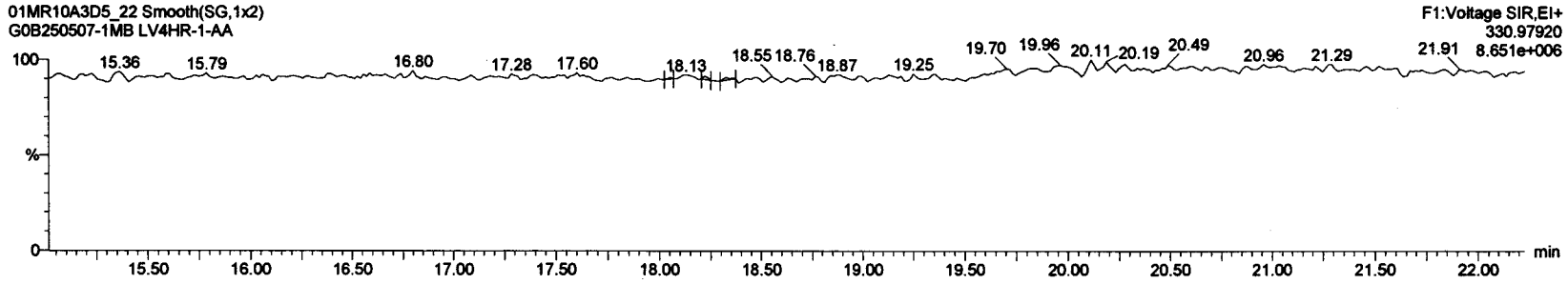
TCDFs



TCDF PCDPE



Function 1 PFK



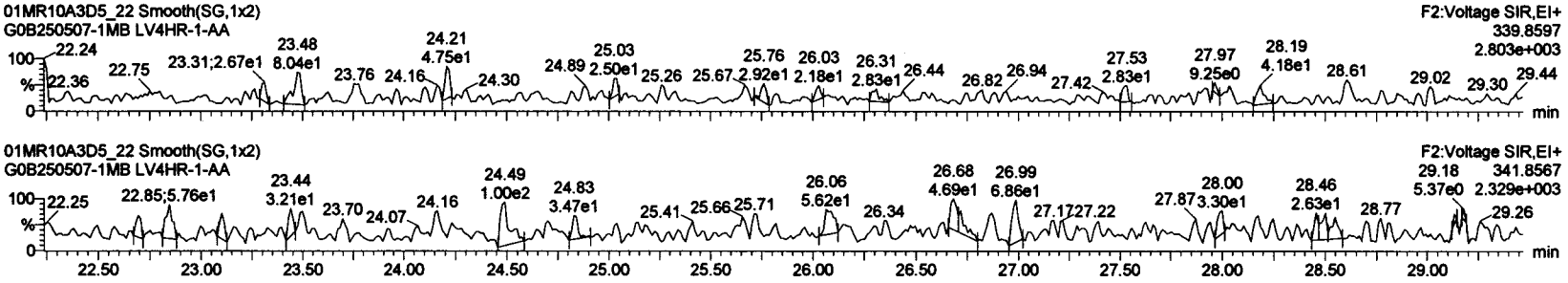
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

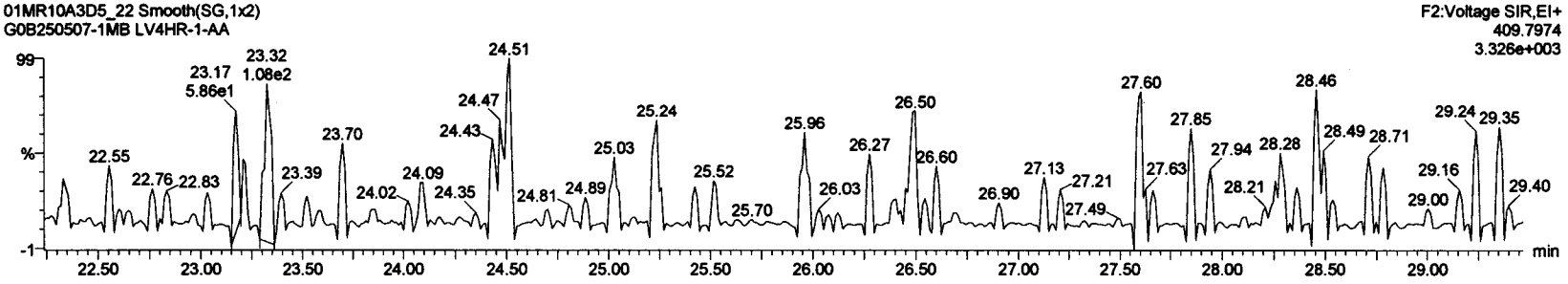
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

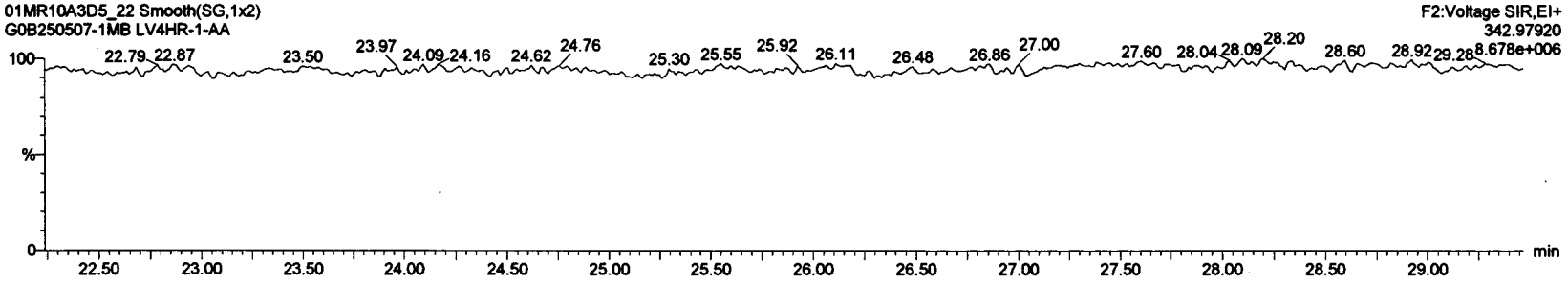
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



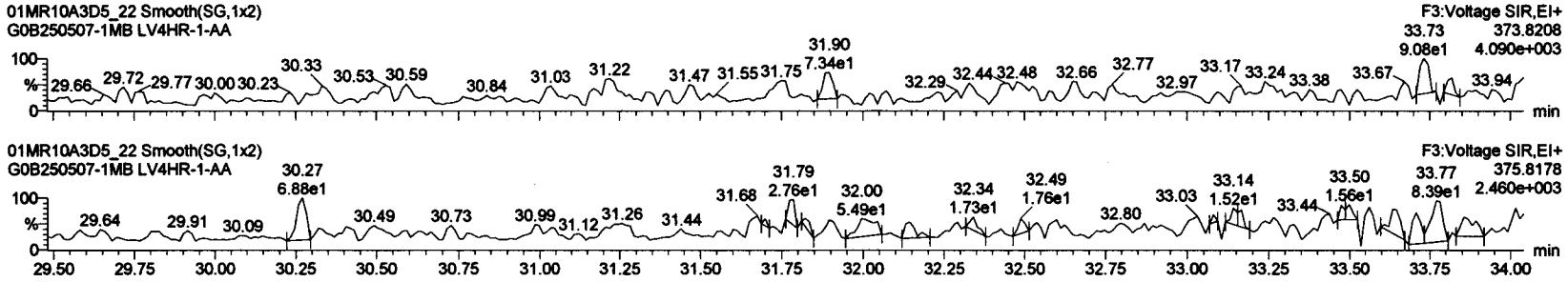
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

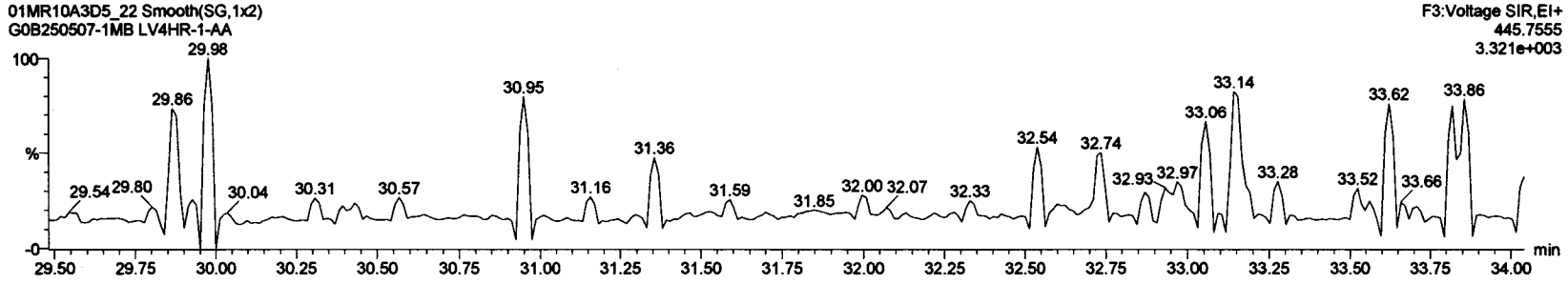
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

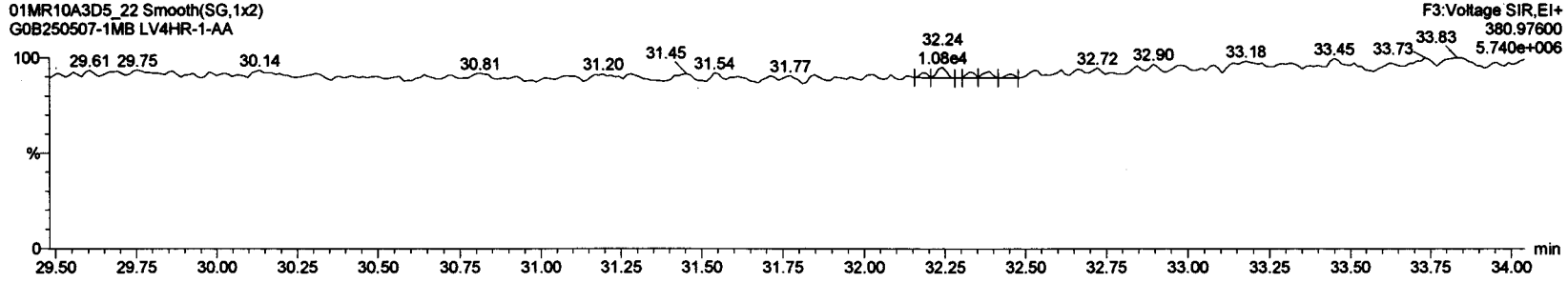
HxCDFs



HxCDF PCDPE



Function 3 PFK



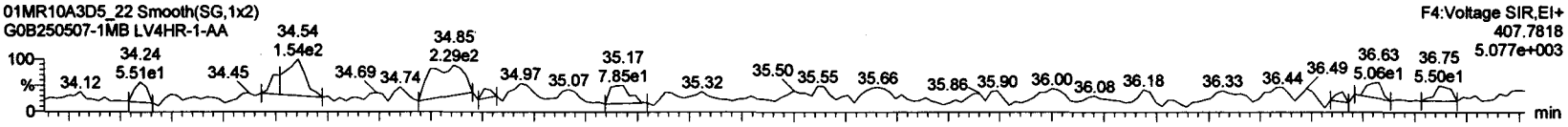
Quantify Sample Report **MassLynx 4.1**

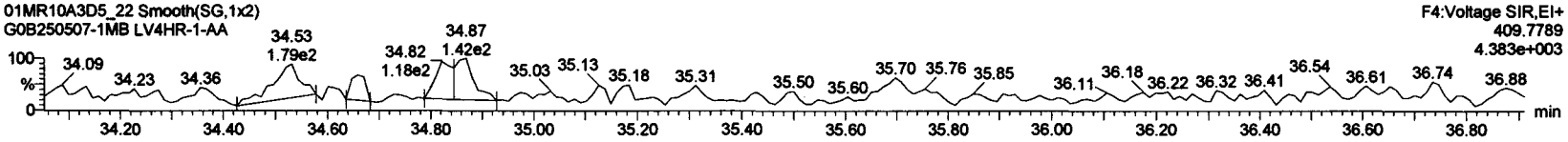
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

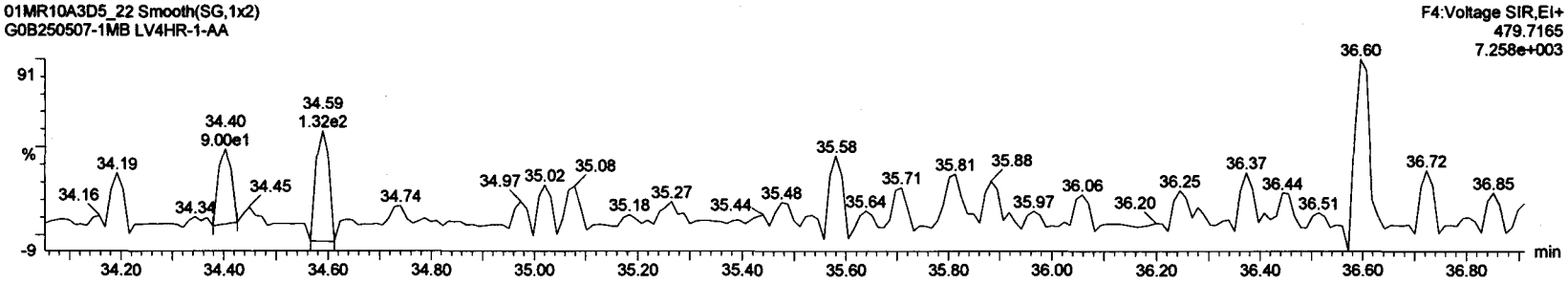
Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

HpCDFs

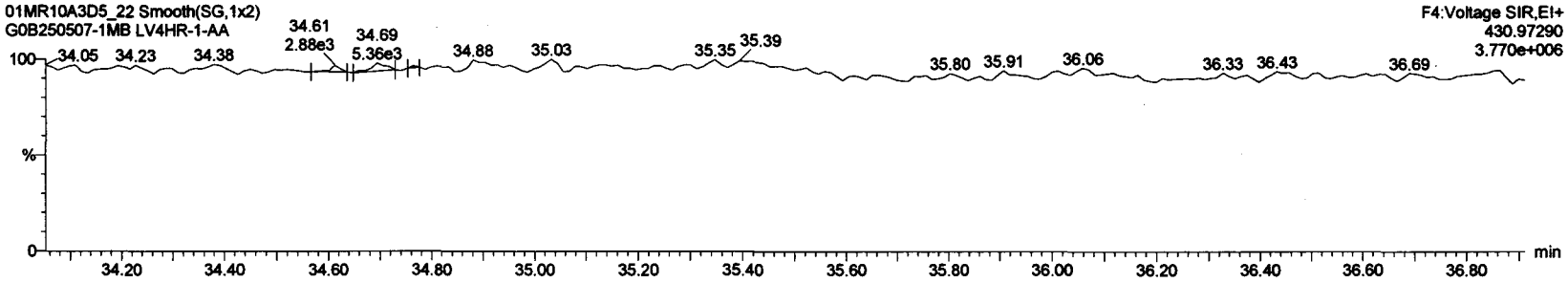




HpCDF PCDPE



Function 4 PFK



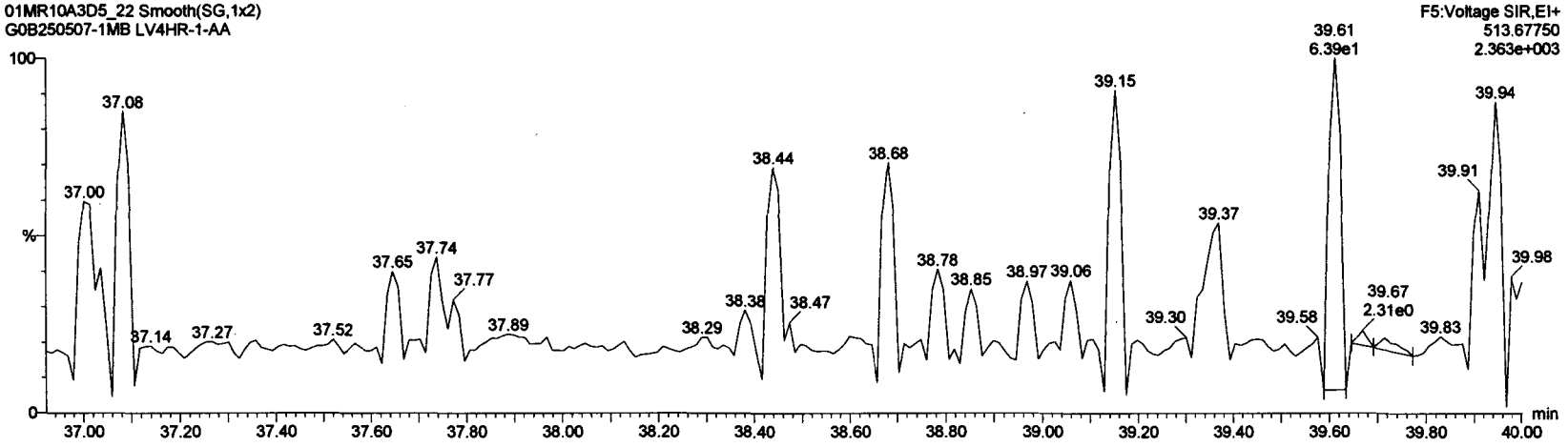
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

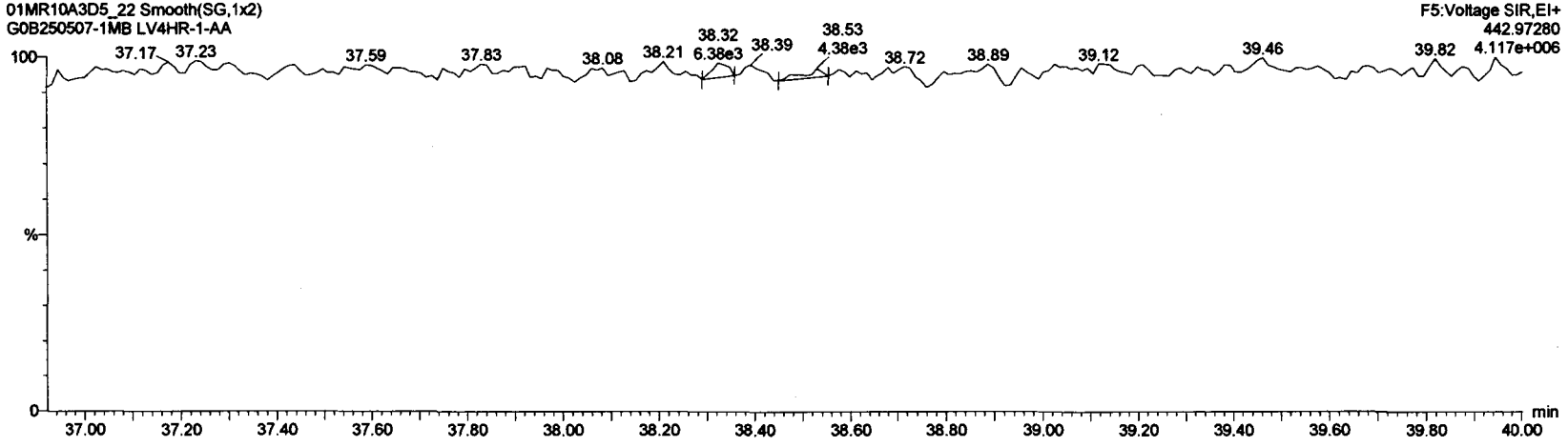
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_22, Date: 02-Mar-2010, Time: 10:54:35, ID: LV4HR-1-AA, Description: G0B250507-1MB

OCDF PCDPE



Function 5 PFK



Quantify Sample Summary Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:13:21 Pacific Standard Time

JRB 3/2/10

Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-A~~A~~C, Description: G0B250507-1LCS, Task:

#	Name	Trace	Sample Size	RT	Prd.RT	RRF	M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Prd.Ratio	Ratio ...	Mod.Date
1	13C-1,2,3,4-TCDD	331.9368	1.000	19.13	19.13	1.000		2021787.25	2000.0000	2000.0000	100.0	1.2688	0.792	0.770	NO	
2																
3	13C-2,3,7,8-TCDF	315.9419	1.000	18.55	18.55	1.402		2342613.06	1653.2242	1653.2242	82.7	0.9119	0.804	0.770	NO	
4	2,3,7,8-TCDF	303.9016	1.000	18.57	18.57	0.921		219953.81	203.8145	203.8145		0.3239	0.761	0.770	NO	
5	Total TCDFs	303.9016	1.000		21.44	0.921			203.8145	203.8145		0.3239				
6																
7	13C-2,3,7,8-TCDD	331.9368	1.000	19.34	19.34	0.950		1584896.13	1651.0072	1651.0072	82.6	1.3361	0.800	0.770	NO	
8	2,3,7,8-TCDD	319.8965	1.000	19.35	19.35	1.039		161444.81	196.1383	196.1383		0.4748	0.786	0.770	NO	
9	Total TCDDs	319.8965	1.000		19.55	1.039			196.1383	196.1383		0.4748				
10																
11	37CL-2,3,7,8-TCDD	327.8847	1.000	19.35	19.35	1.145		740529.19	639.9770	0.0000	80.0	0.3975				
12																
13	13C-1,2,3,7,8-PeCDF	351.9000	1.000	24.15	24.13	1.117		1765093.69	1563.5085	1563.5085	78.2	1.6650	1.580	1.550	NO	
14	1,2,3,7,8-PeCDF	339.8597	1.000	24.18	24.19	0.989		872816.13	999.6816	999.6816		1.2791	1.583	1.550	NO	
15	2,3,4,7,8-PeCDF	339.8597	1.000	25.66	25.66	0.949		850634.94	1015.2572	1015.2572		1.3329	1.558	1.550	NO	
16	Total F2 PeCDFs	339.8597	1.000		34.47	0.969			2014.9388	2014.9388		1.3055				
17	Total F1 PeCDFs	339.8597	1.000		36.56	0.969						0.1464				
18																
19	13C-1,2,3,7,8-PeCDD	367.8949	1.000	26.44	26.43	0.776		1202336.84	1532.6540	1532.6540	76.6	1.5408	1.641	1.550	NO	
20	1,2,3,7,8-PeCDD	355.8546	1.000	26.46	26.46	0.970		575508.92	987.3564	987.3564		1.1842	1.557	1.550	NO	
21	Total PeCDDs	355.8546	1.000		31.10	0.970			987.3564	987.3564		1.1842				
22																
23	13C-1,2,3,7,8,9-HxCDD	401.8559	1.000	32.97	32.97	1.000		1481050.38	2000.0000	2000.0000	100.0	1.6404	1.289	1.240	NO	
24																
25	13C-1,2,3,4,7,8-HxCDF	383.8639	1.000	31.74	31.74	0.972		1210583.09	1682.1522	1682.1522	84.1	3.0417	0.509	0.510	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	1.000	31.76	31.76	1.200		768253.03	1057.3550	1057.3550		0.9121	1.247	1.240	NO	
27	1,2,3,6,7,8-HxCDF	373.8208	1.000	31.89	31.86	1.341		824327.75	1015.6961	1015.6961		0.8165	1.257	1.240	NO	
28	2,3,4,6,7,8-HxCDF	373.8208	1.000	32.48	32.47	1.257		808880.63	1063.3969	1063.3969		0.8712	1.249	1.240	NO	
29	1,2,3,7,8,9-HxCDF	373.8208	1.000	33.15	33.15	1.075		727811.13	1118.2336	1118.2336		1.0182	1.278	1.240	NO	
30	Total HxCDFs	373.8208	1.000		0.00	1.218			4254.6816	4254.6816		0.8987				
31																
32	13C-1,2,3,6,7,8-HxCDD	401.8559	1.000	32.69	32.68	0.899		1108831.41	1664.9101	1664.9101	83.2	1.8240	1.284	1.240	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	1.000	32.62	32.61	0.902		549896.38	1099.8584	1099.8584		0.9854	1.261	1.240	NO	
34	1,2,3,6,7,8-HxCDD	389.8157	1.000	32.70	32.70	1.099		629370.34	1032.8993	1032.8993		0.8085	1.245	1.240	NO	
35	1,2,3,7,8,9-HxCDD	389.8157	1.000	32.98	32.99	1.064		638346.50	1082.2362	1082.2362		0.8352	1.202	1.240	NO	

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:13:21 Pacific Standard Time

Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS, Task:

#	Name	Trace	Sample Size	RT	Prd.RT	RRF	M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Prd.Ratio	Ratio ...	Mod Date
36	Total HxCDDs	389.8157	1.000		0.00	1.022			3214.9939	3214.9939		0.8698				
37																
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	1.000	34.51	34.51	0.843		1120888.22	1796.1072	1796.1072	89.8	4.6252	0.451	0.440	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	1.000	34.52	34.52	1.307		756909.28	1033.5628	1033.5628		1.5059	1.036	1.040	NO	
40	1,2,3,4,7,8,9-HpCDF	407.7818	1.000	35.65	35.65	1.064		685929.09	1149.9168	1149.9168		1.8488	1.030	1.040	NO	
41	Total HpCDFs	407.7818	1.000		0.00	1.186			2183.4796	2183.4796		1.6598				
42																
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	1.000	35.32	35.32	0.797		1148841.75	1945.3474	1945.3474	97.3	3.8348	1.004	1.040	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	1.000	35.34	35.34	0.997		563146.94	983.4774	983.4774		1.4038	1.040	1.040	NO	
45	Total HpCDDs	423.7766	1.000		0.00	0.997			983.4774	983.4774		1.4038				
46																
47	13C-OCDD	469.7779	1.000	37.85	37.85	0.599		1758136.06	3965.6324	3965.6324	99.1	3.2418	0.886	0.890	NO	
48	OCDF	441.7428	1.000	37.97	37.97	1.262		1116349.00	2012.1727	2012.1727		1.6683	0.891	0.890	NO	
49	OCDD	457.7377	1.000	37.86	37.86	1.115		987499.94	2014.5858	2014.5858		2.3245	0.878	0.890	NO	
50																
51																
52	Function 1 PFK	330.97920	1.000		18.17	11489....						0.0000				
53	Function 2 PFK	342.97920	1.000		25.55	9733.6...						0.0000				
54	Function 3 PFK	380.97600	1.000	32.29	32.30	5225.1...		12093.81	2.3145		231.5	3.9928				
55	Function 4 PFK	430.97290	1.000		34.60	4454.8...						0.0000				
56	Function 5 PFK	442.97280	1.000		38.49	3910.7...						0.0000				
57	TCDF PCDPE	375.8364	1.000		21.12	45.934						0.0000				
58	F1 PeCDF PCDPE	409.79740	1.000		18.83	76.179						0.0000				
59	F2 PeCDF PCDPE	409.7974	1.000	23.21	23.23	92.309		3.90	0.0422		4.2	0.2248				
60	HXCDF PCDPE	445.7555	1.000	33.82	33.73	77.611		46.89	0.6041		60.4	0.1383				
61	HPCDF PCDPE	479.7165	1.000		34.51	88.954						0.0000				
62	OCDF PCDPE	513.67750	1.000	39.63	39.62	102.269		11.56	0.1130		11.3	0.0952				

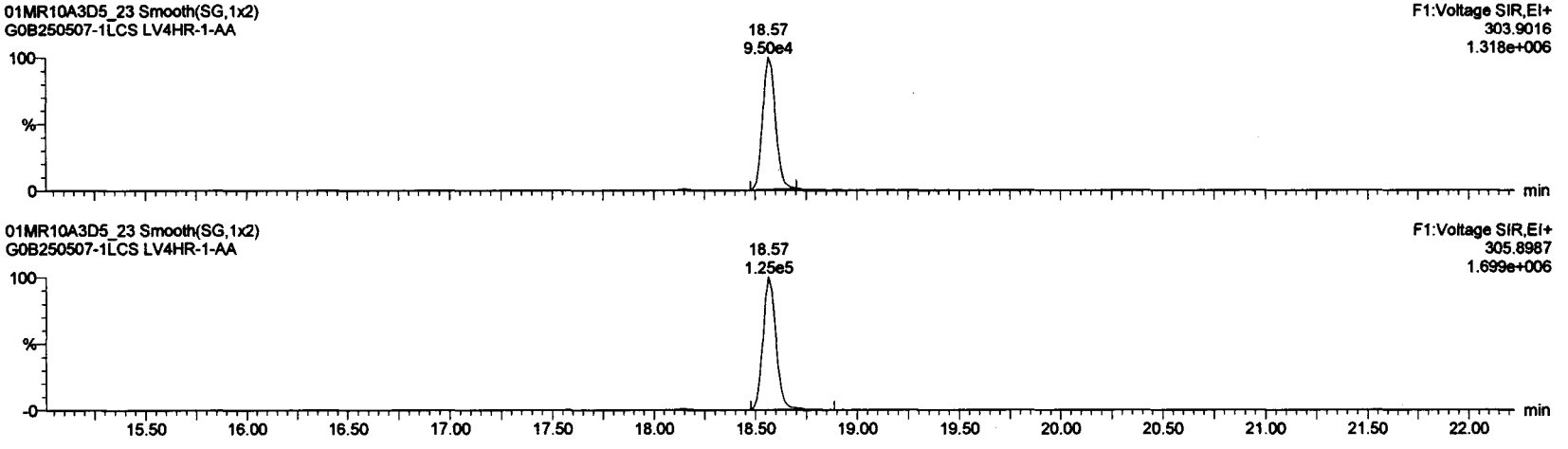
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

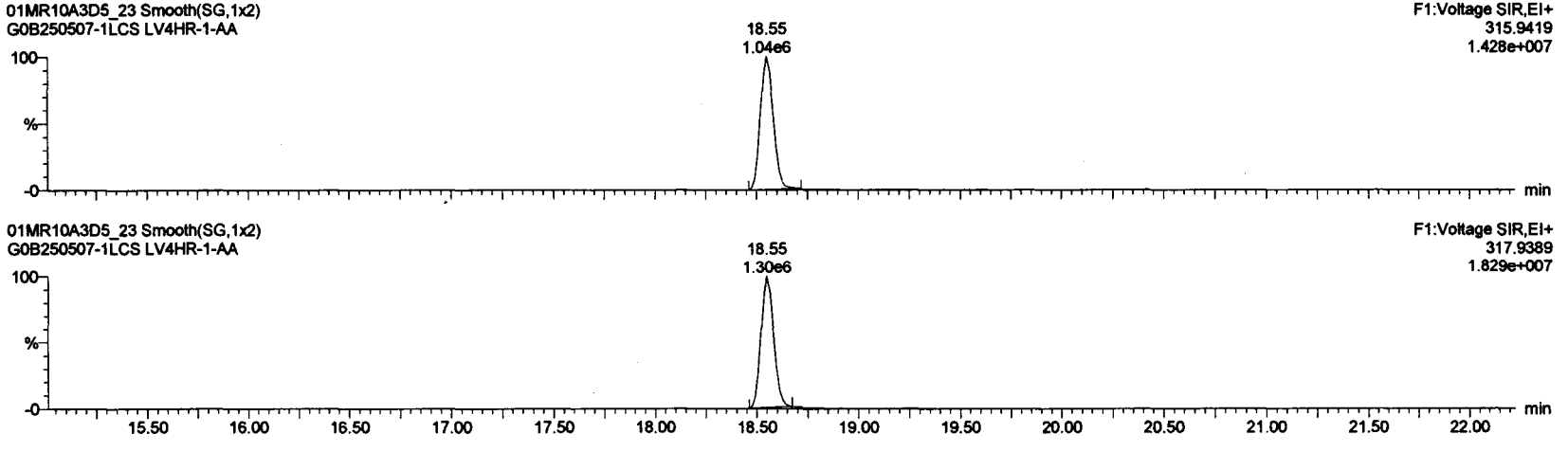
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

TCDFs



13C-TCDF



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
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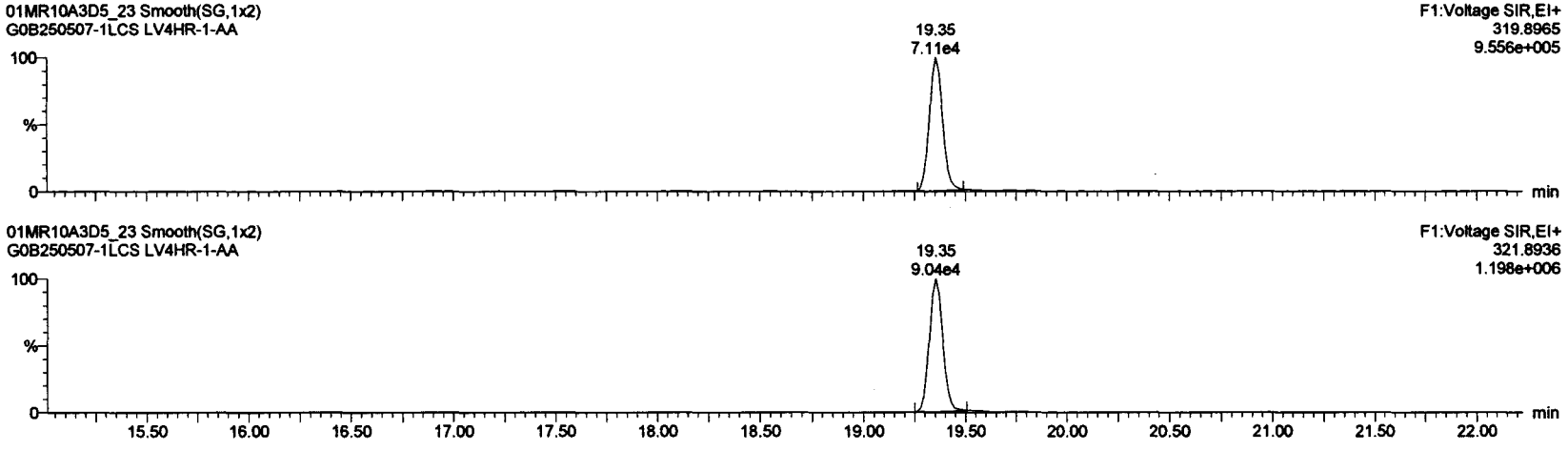
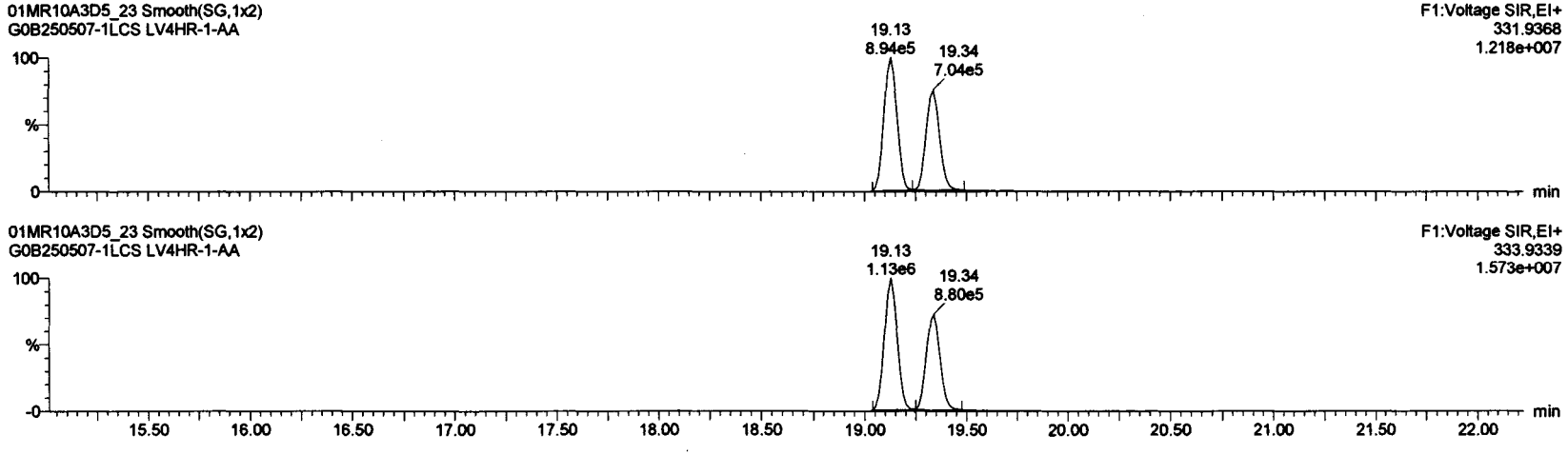
Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

TCDDs



13C-TCDDs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
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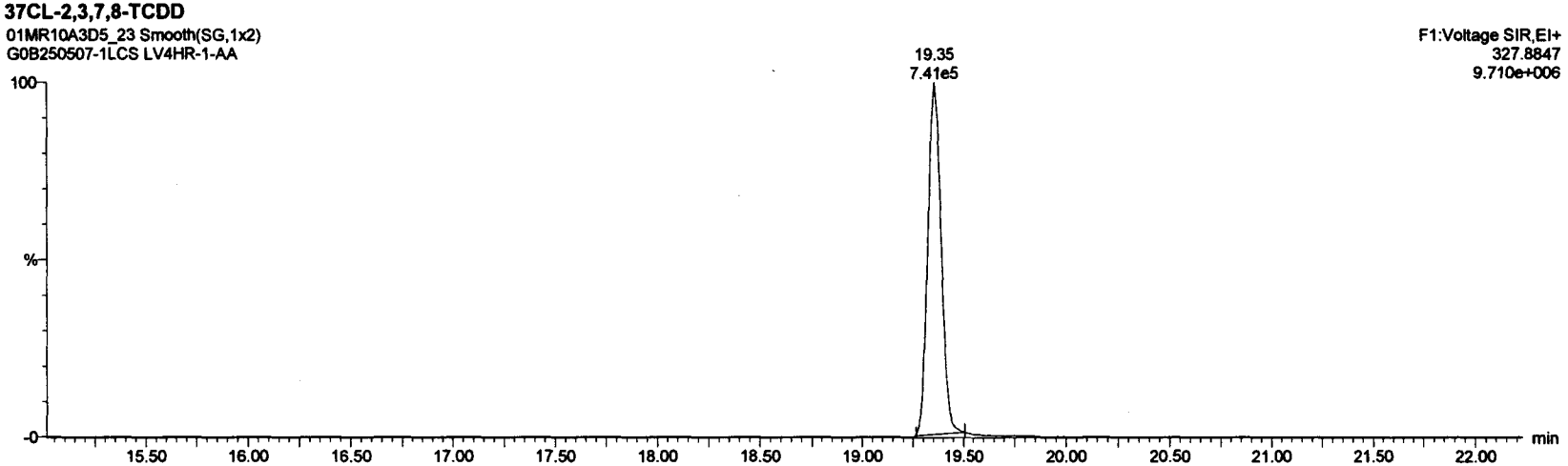
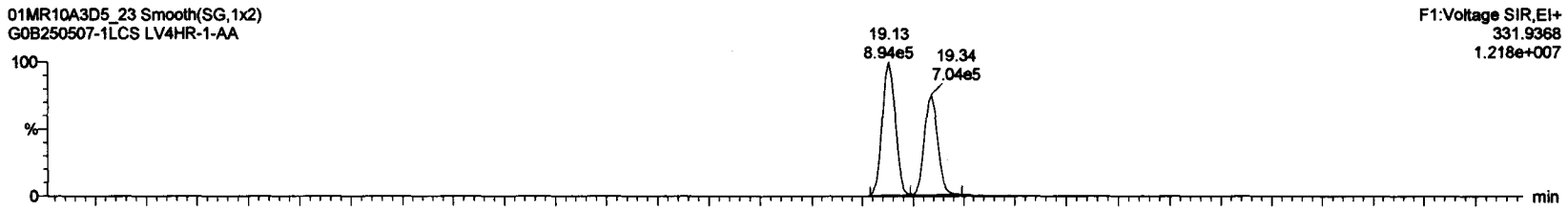
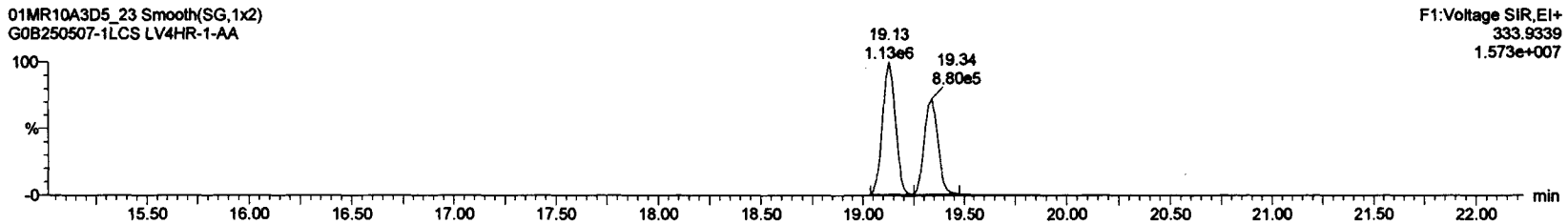
Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

37CL-2,3,7,8-TCDD



13C-TCDDs





Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
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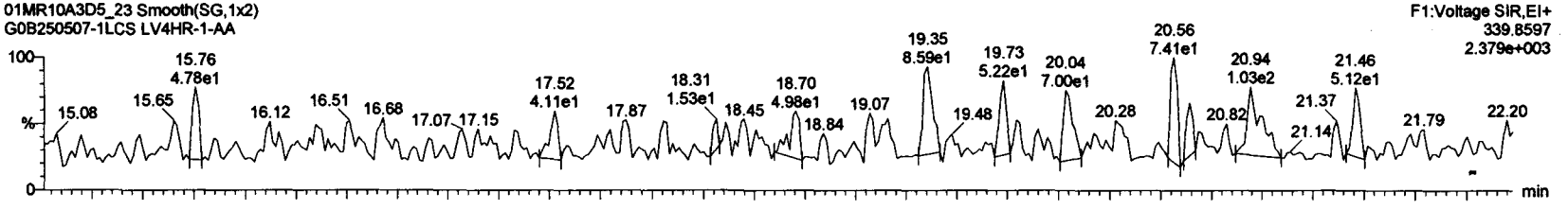
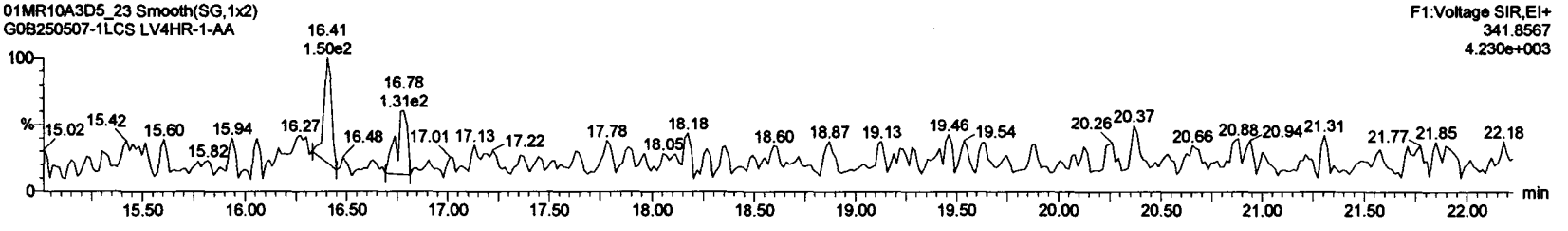
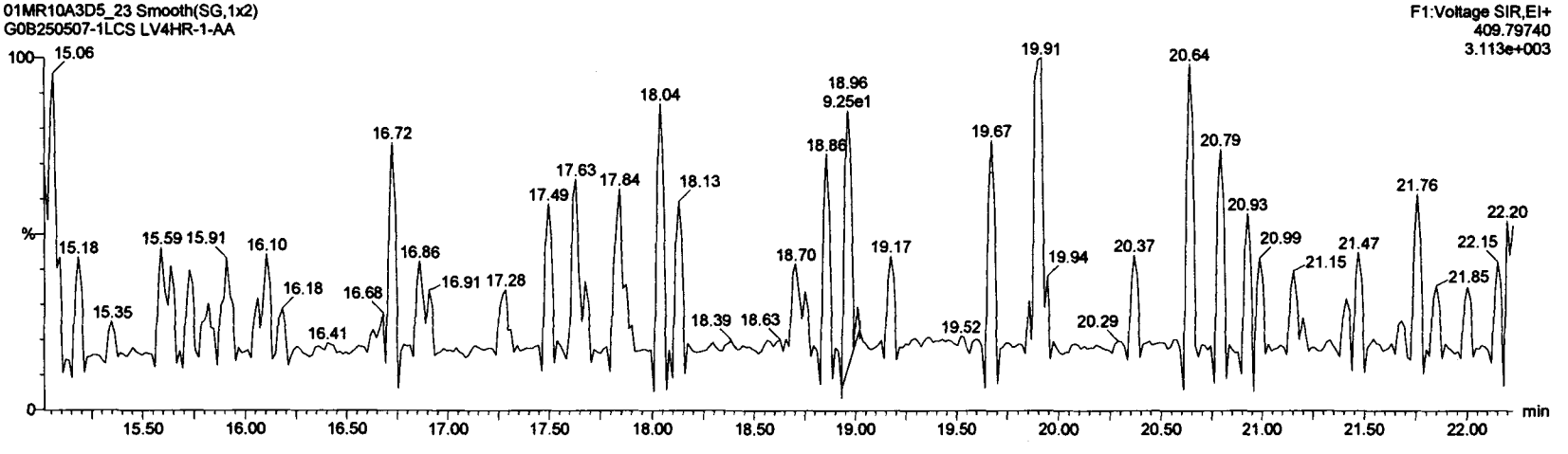
Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

F1 PeCDFs





F1 PeCDF PCDPE



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
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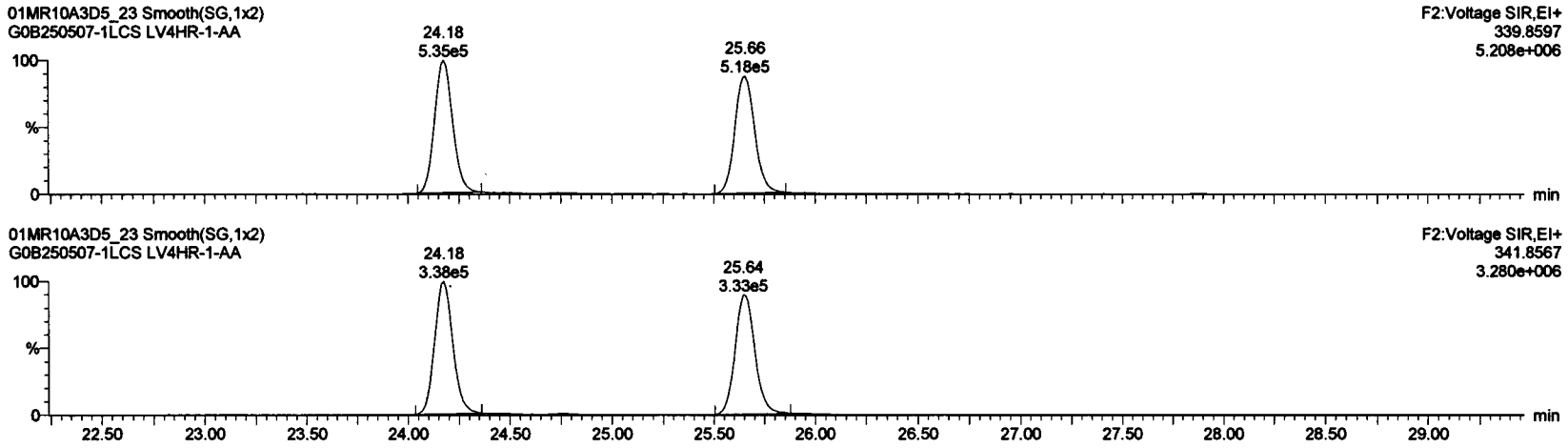
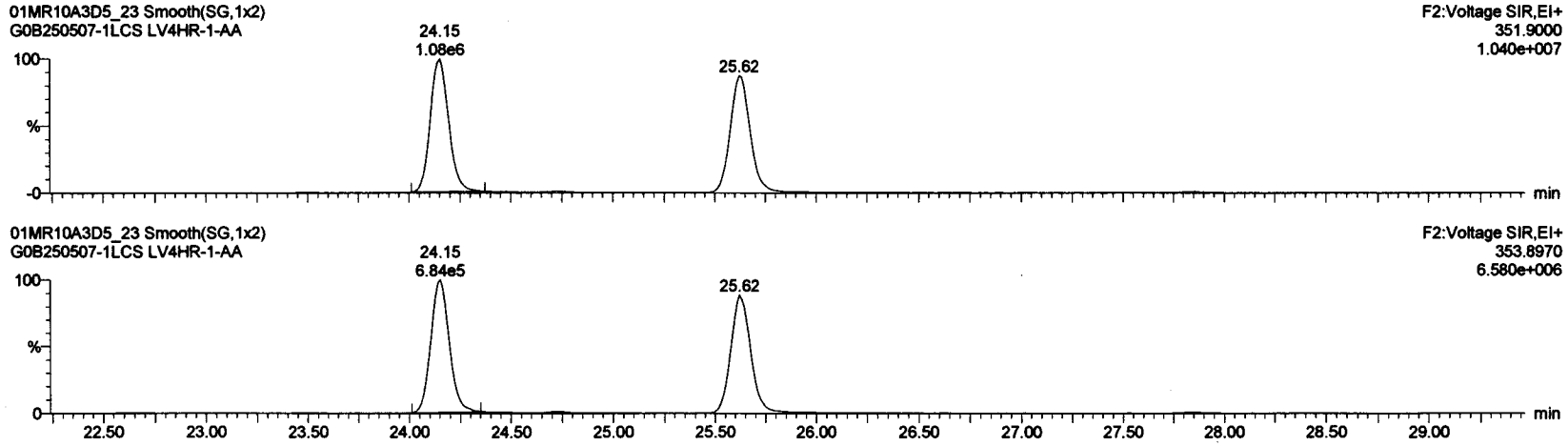
Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

PeCDFs



13C-PeCDFs



Quantify Sample Report **MassLynx 4.1**

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Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
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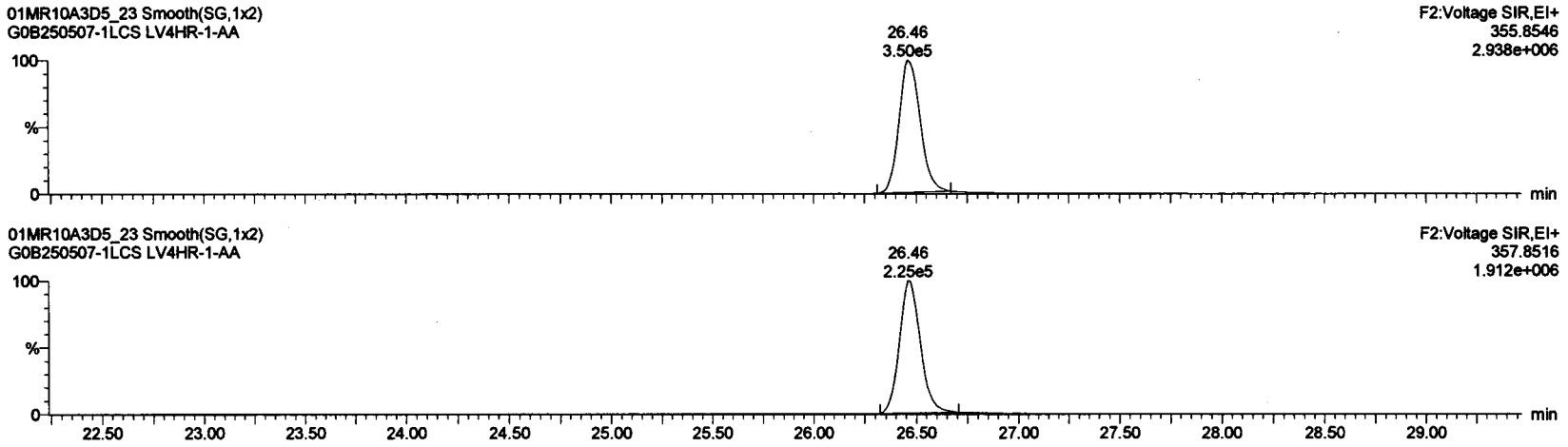
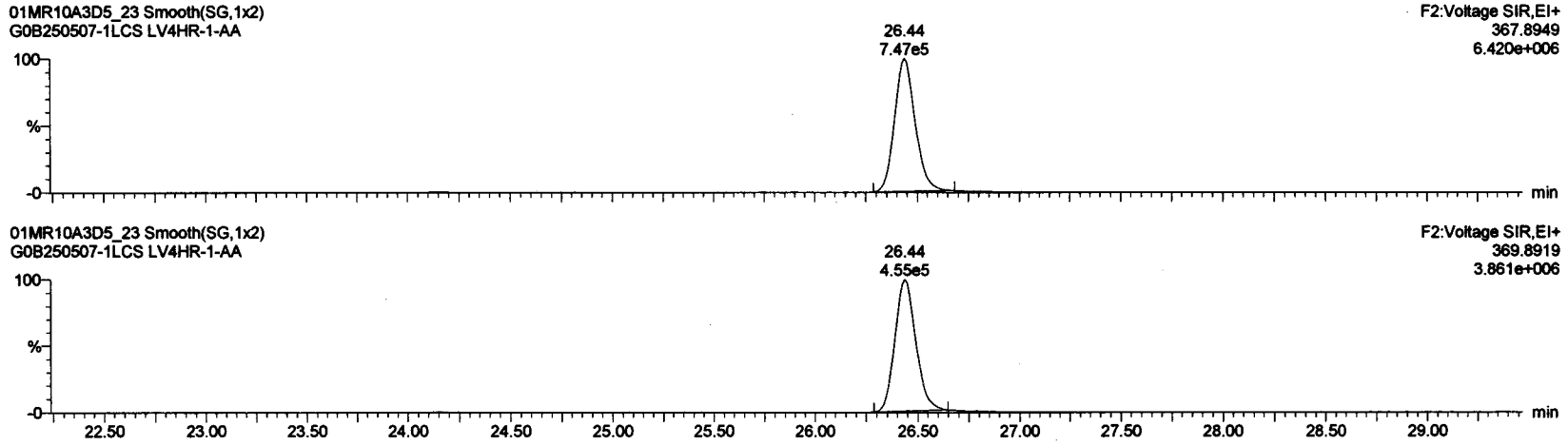
Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

PeCDDs



13C-PeCDD



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
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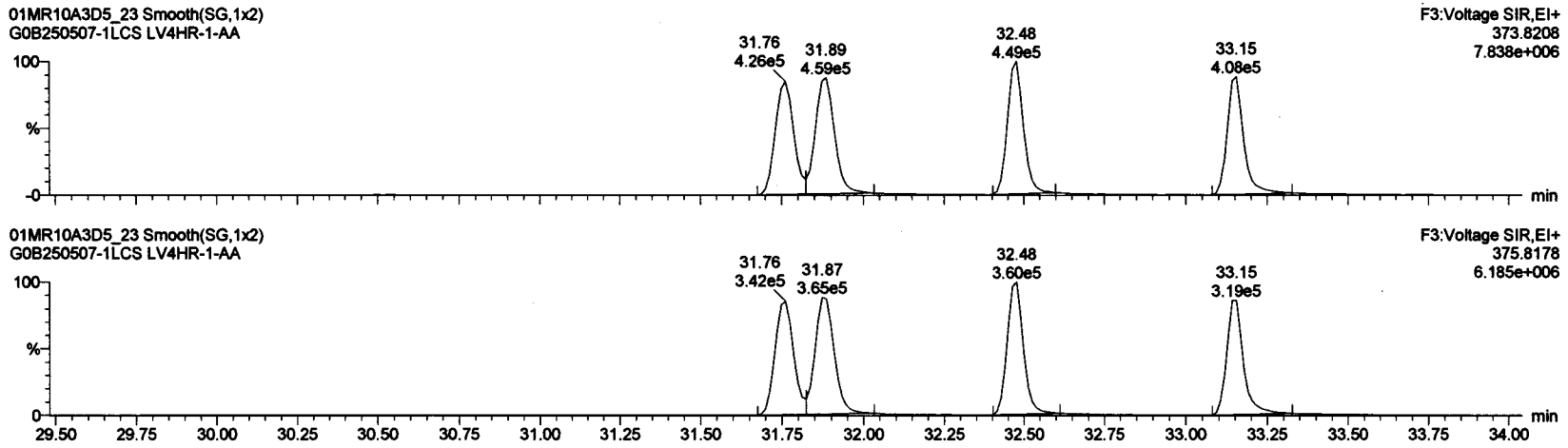
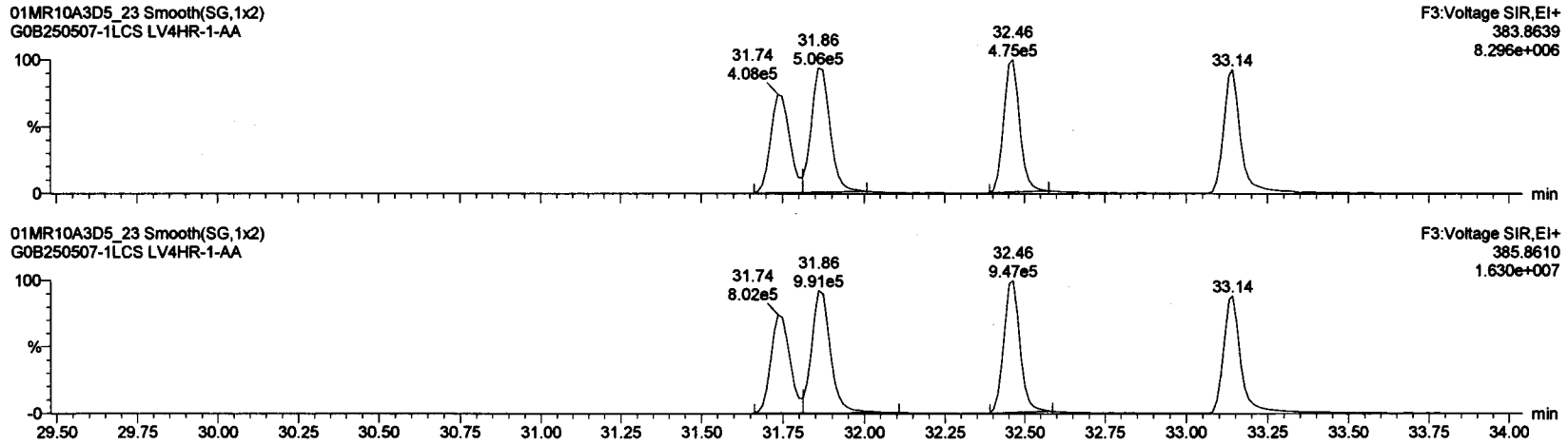
Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

HxCDFs



13C-HxCDFs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
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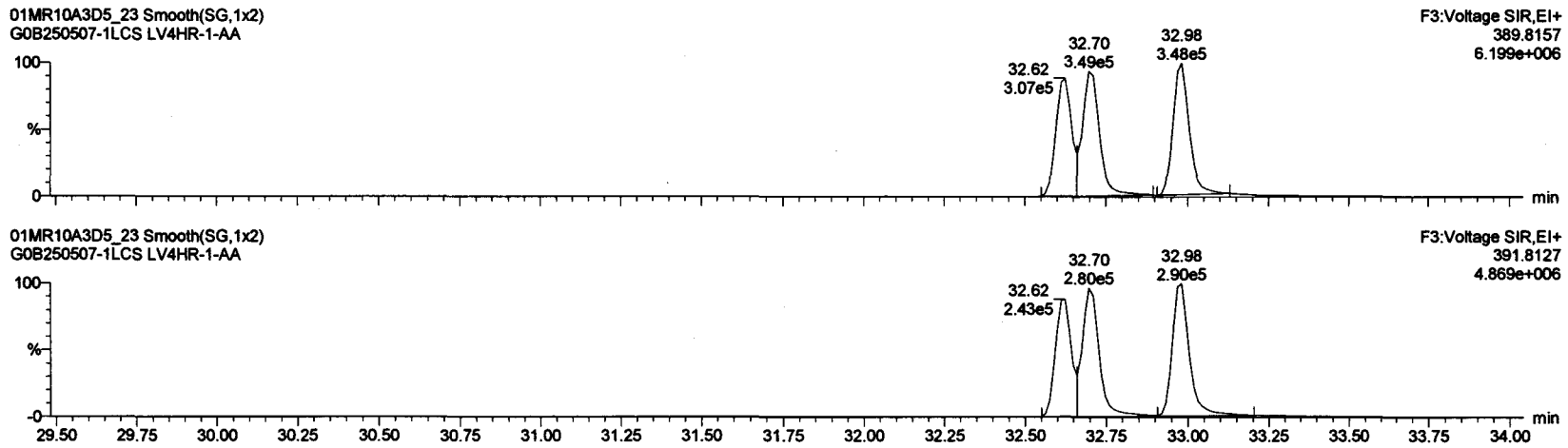
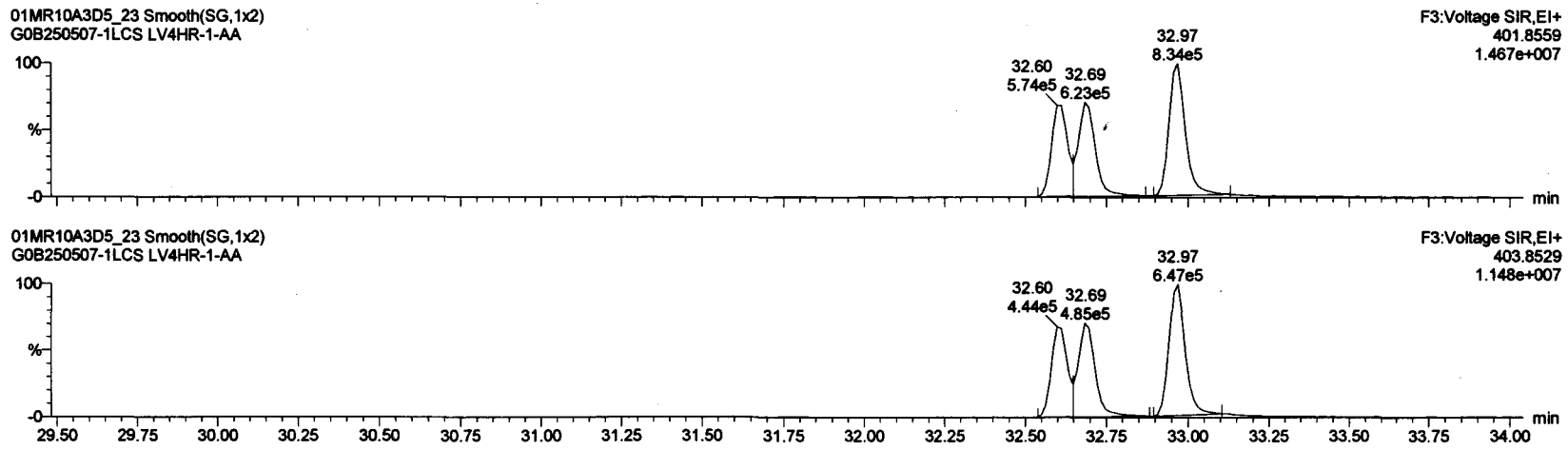
Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

HxCDDs



13C-HxCDDs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
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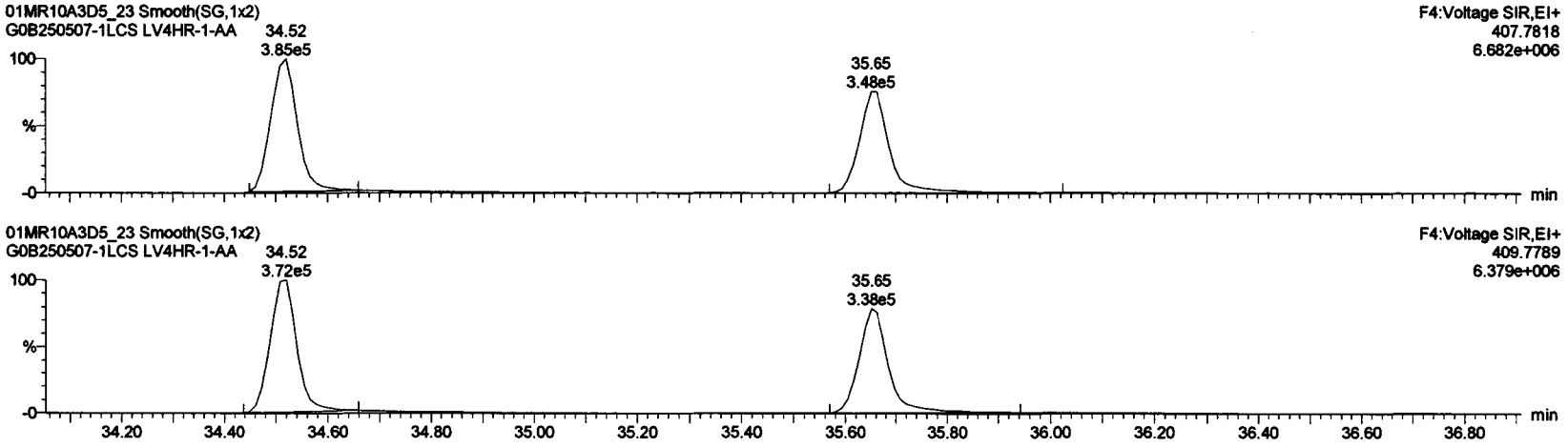
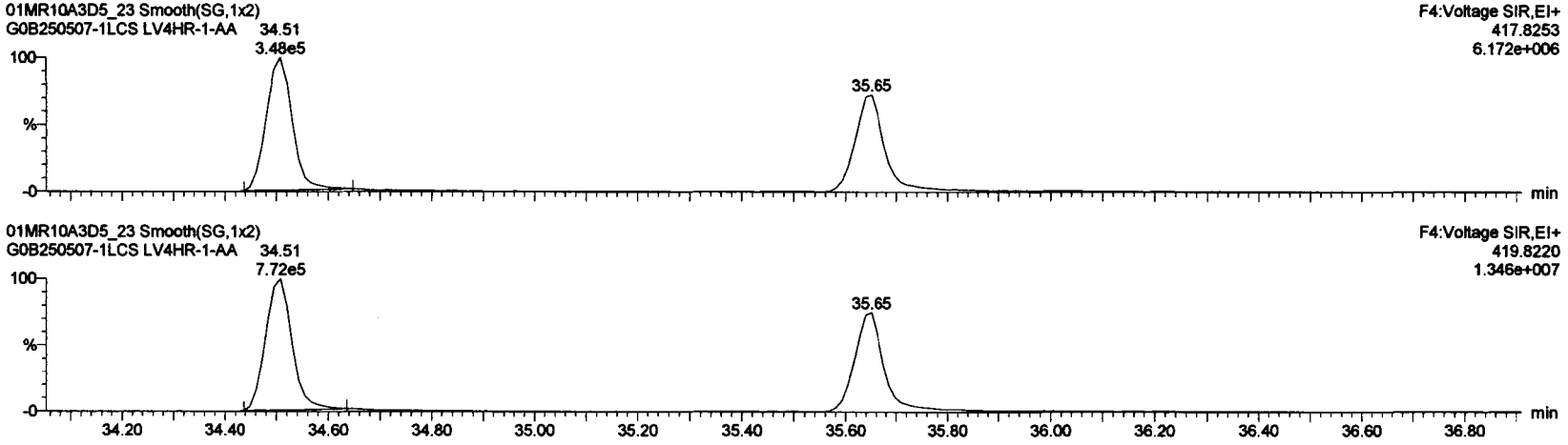
Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

HpCDFs



13C-HpCDFs



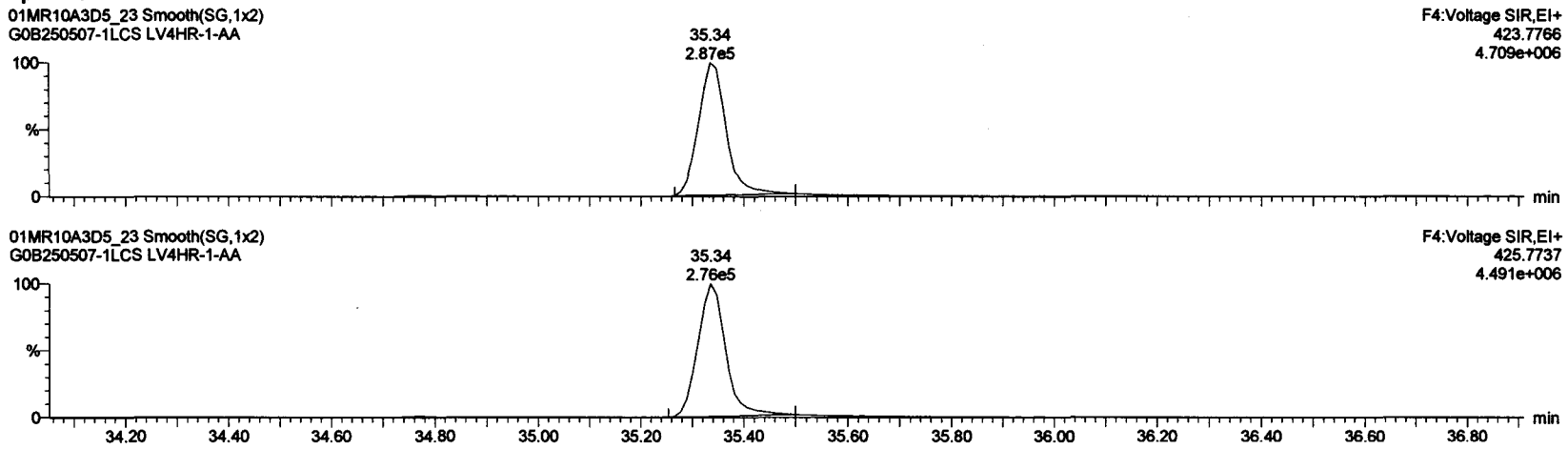
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

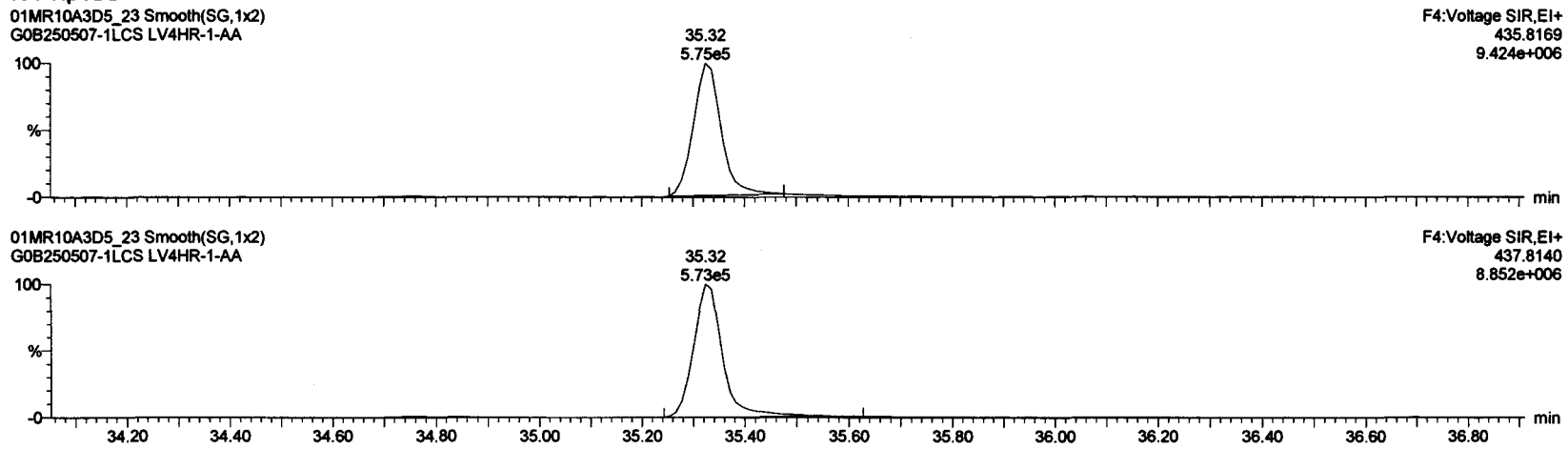
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

HpCDDs



13C-HpCDD



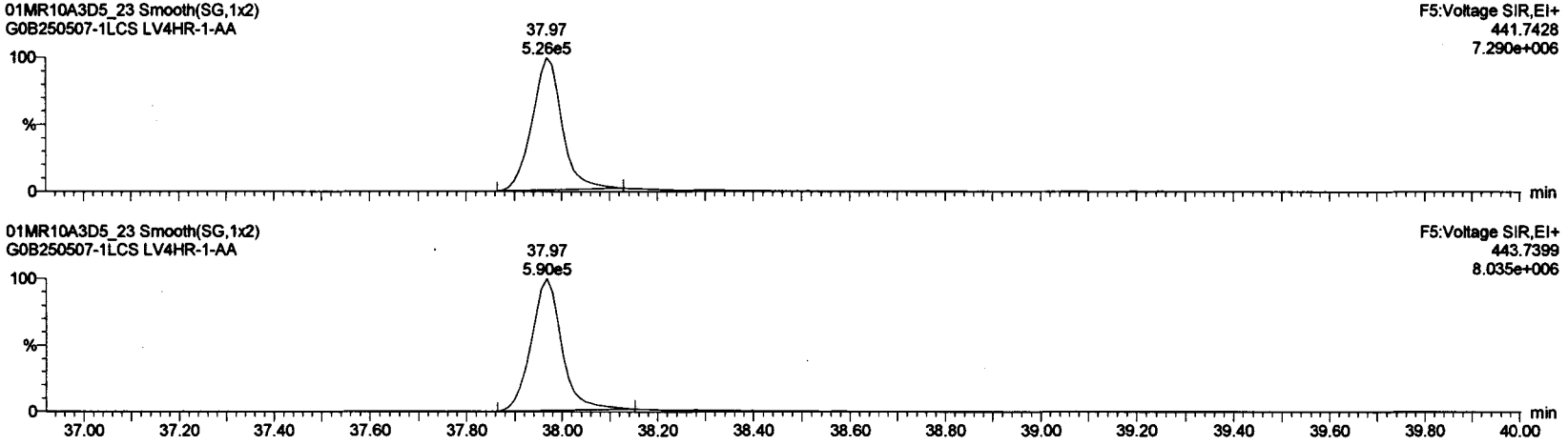
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

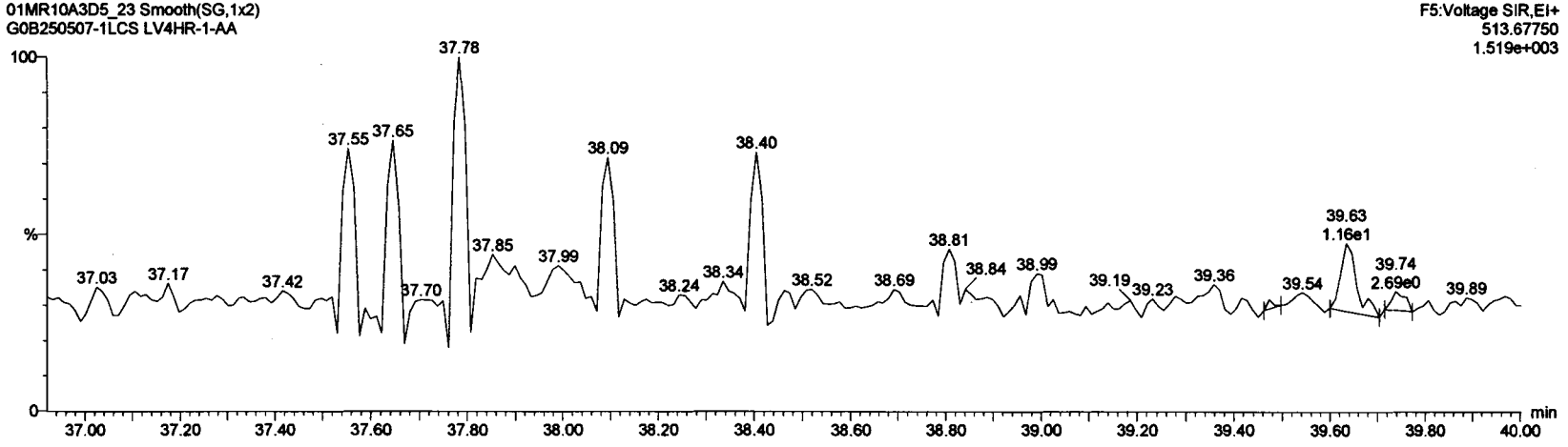
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

OCDFs



OCDF PCDPE



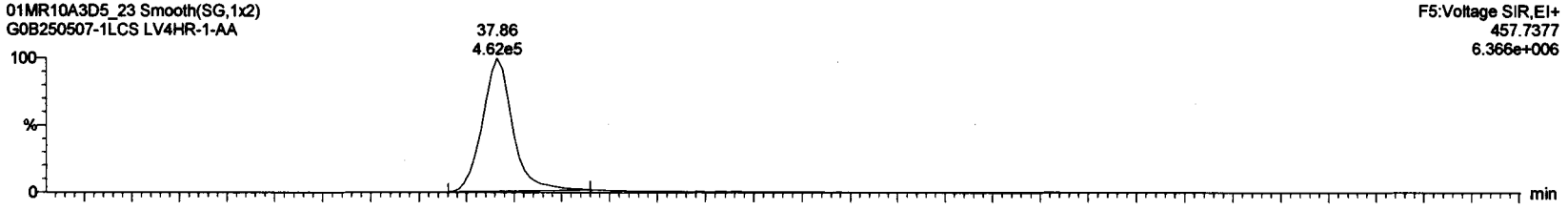
Quantify Sample Report **MassLynx 4.1**

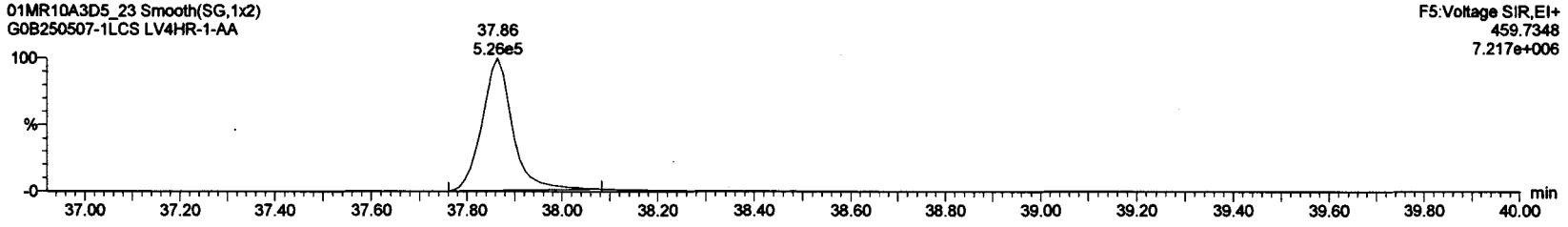
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

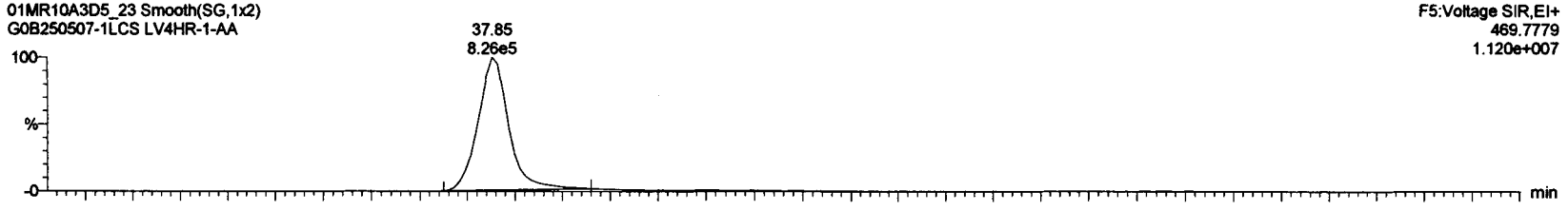
Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

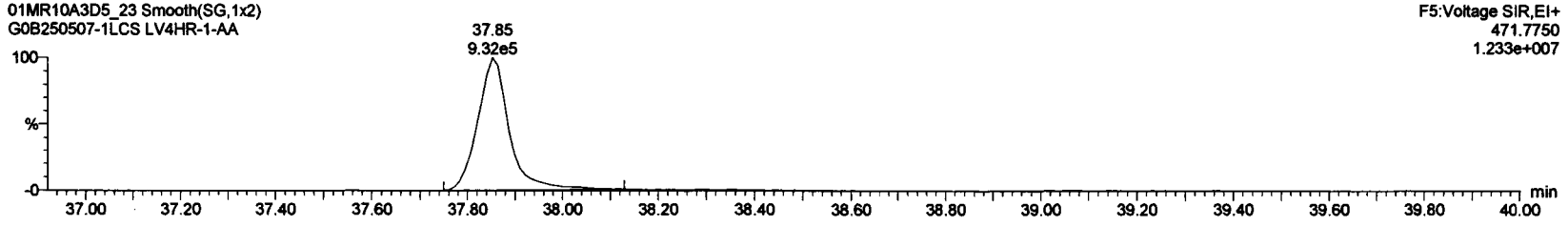
OCDD





13C-OCDD





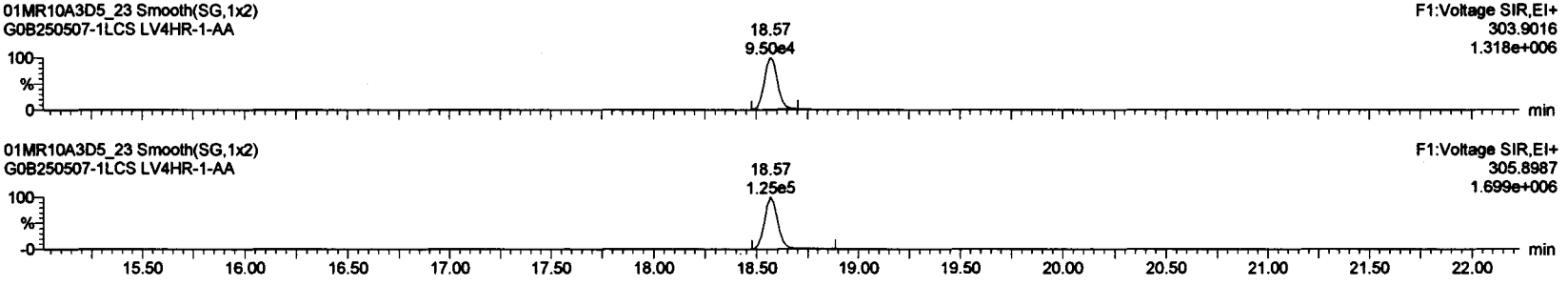
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

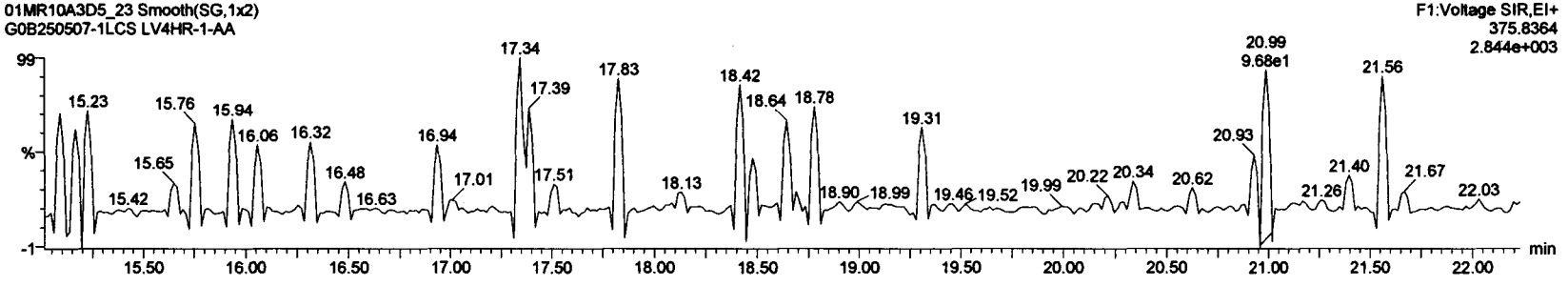
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

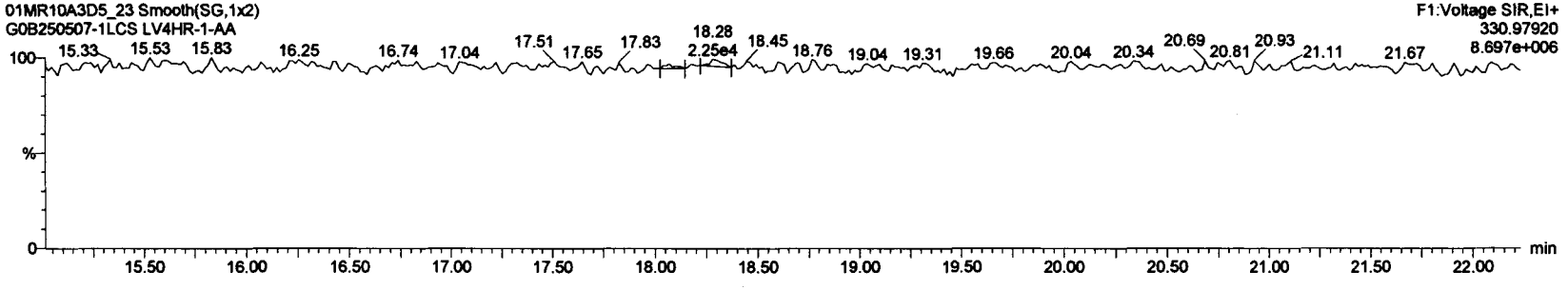
TCDFs



TCDF PCDPE



Function 1 PFK



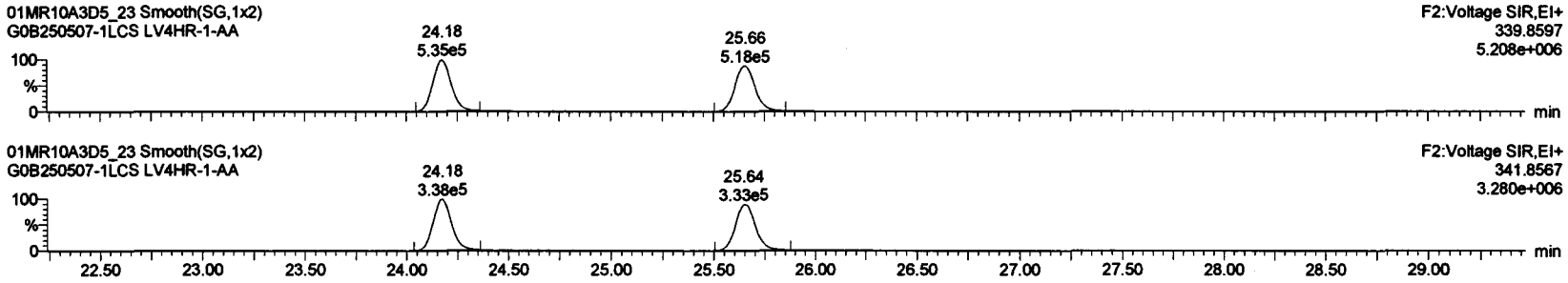
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

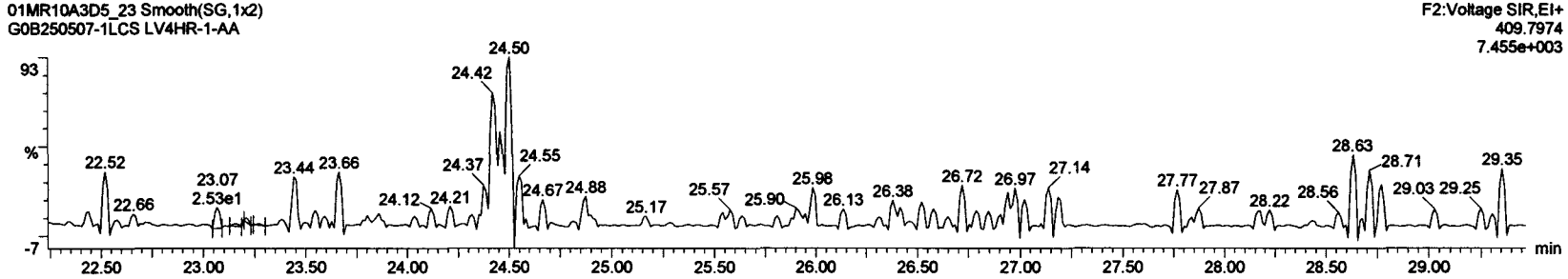
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

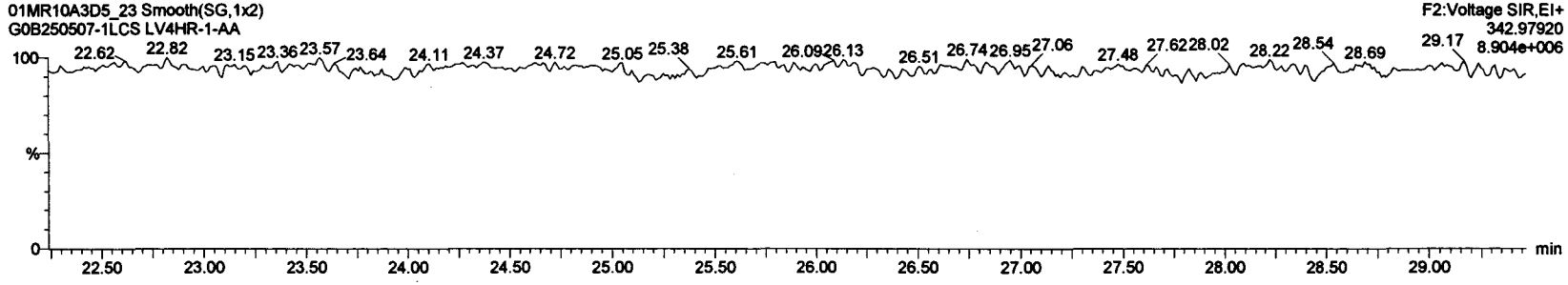
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



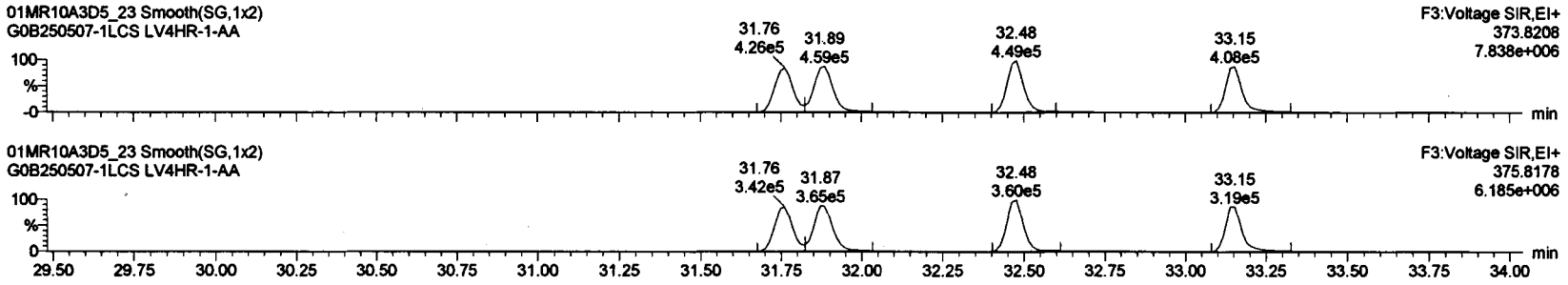
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

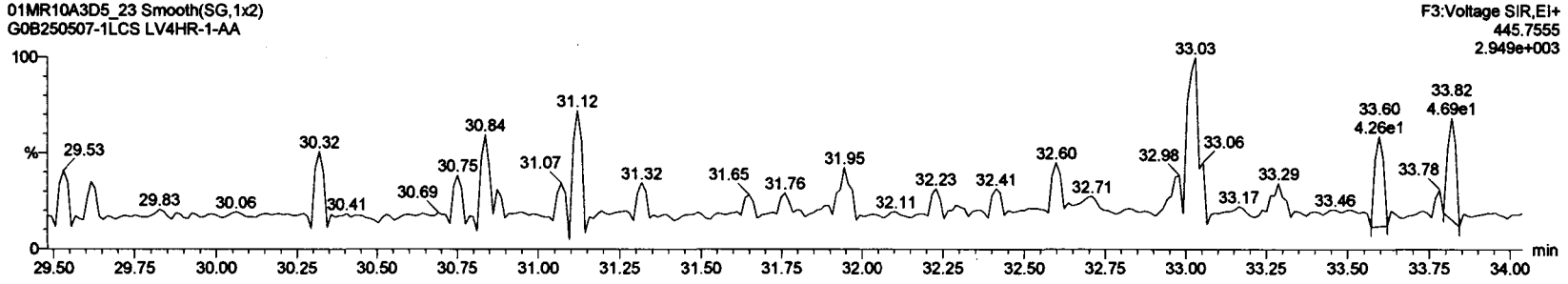
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

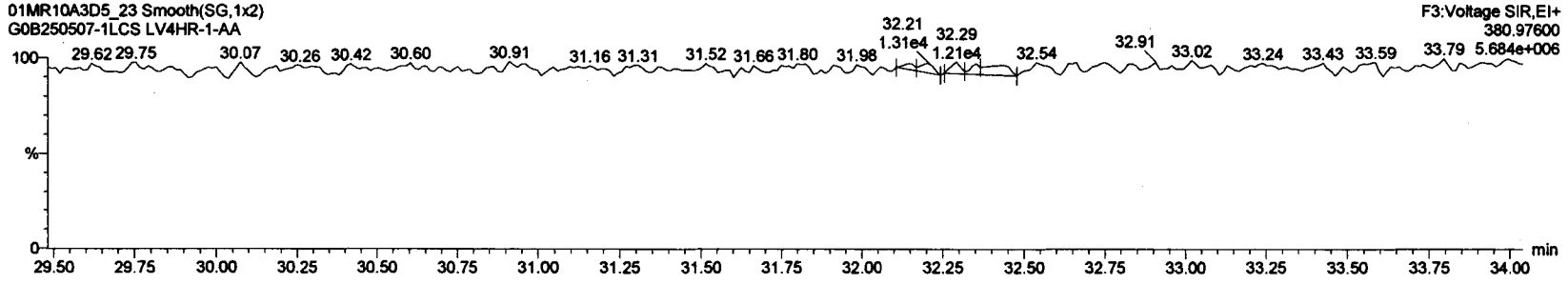
HxCDFs



HxCDF PCDPE



Function 3 PFK



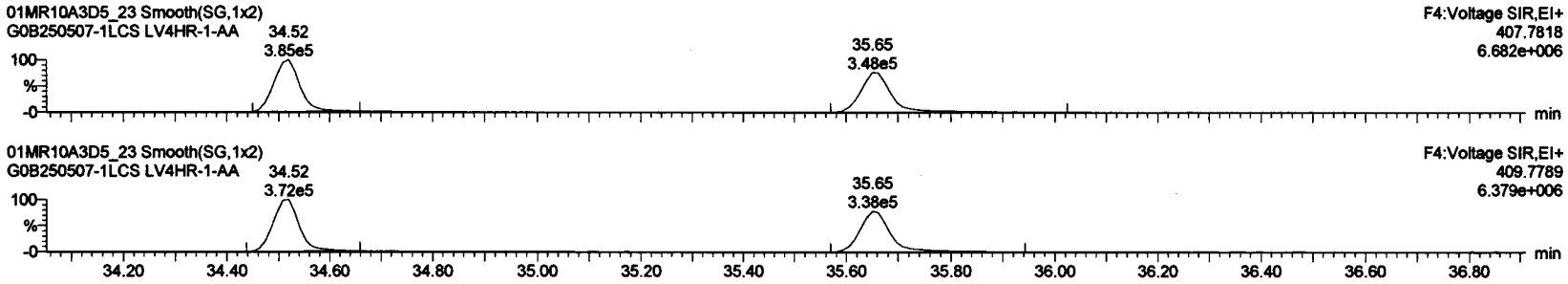
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

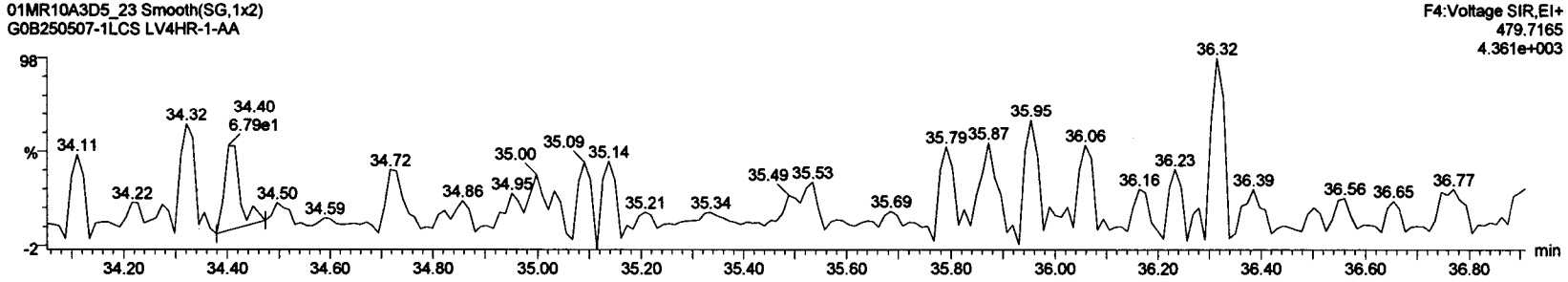
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

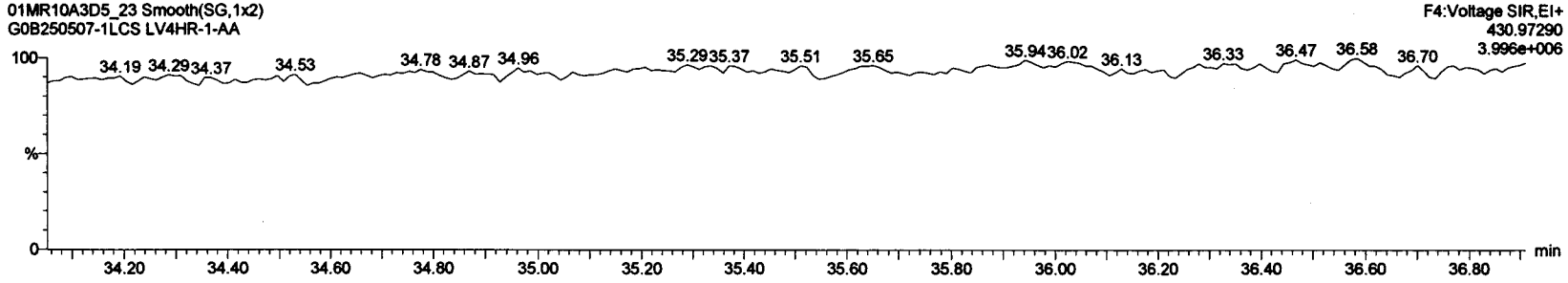
HpCDFs



HpCDF PCDPE



Function 4 PFK



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

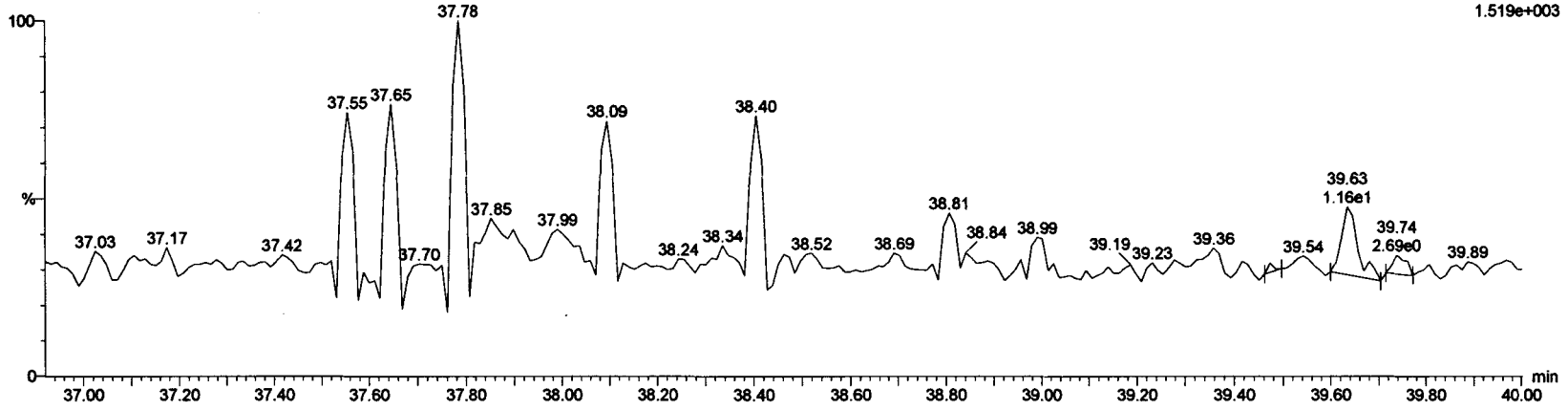
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_23, Date: 02-Mar-2010, Time: 11:36:49, ID: LV4HR-1-AA, Description: G0B250507-1LCS

OCDF PCDPE

01MR10A3D5_23 Smooth(SG,1x2)
G0B250507-1LCS LV4HR-1-AA

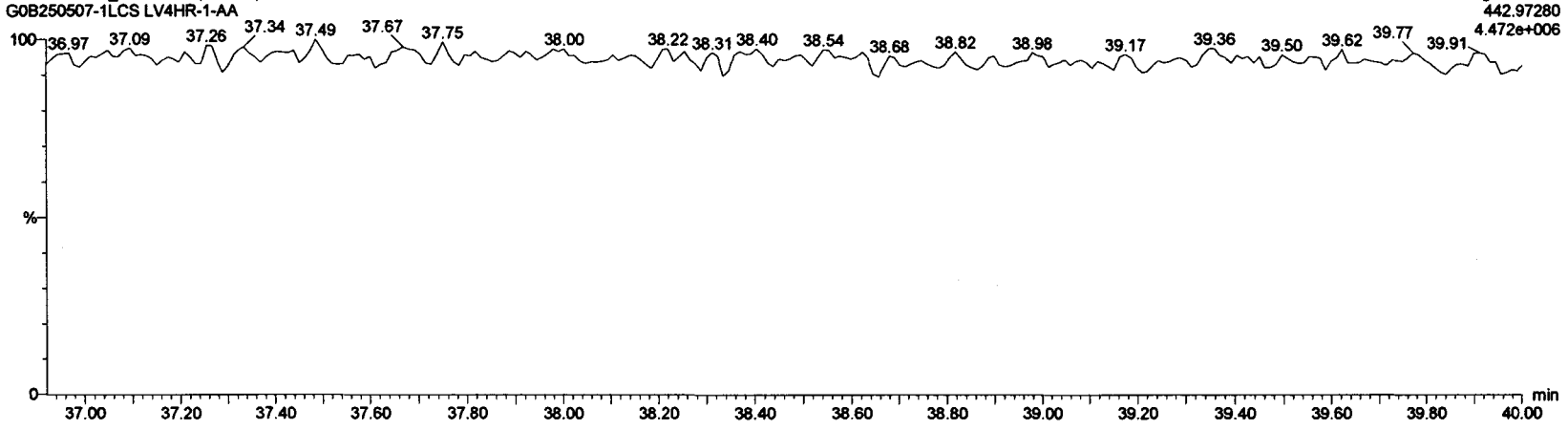
F5:Voltage SIR,EI+
513.67750
1.519e+003



Function 5 PFK

01MR10A3D5_23 Smooth(SG,1x2)
G0B250507-1LCS LV4HR-1-AA

F5:Voltage SIR,EI+
442.97280
4.472e+006



Quantify Sample Summary Report **MassLynx 4.1**

Dataset: X:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Wednesday, March 03, 2010 10:50:10 Pacific Standard Time
Printed: Wednesday, March 03, 2010 10:51:14 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 02 Mar 2010 14:08:15
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

AK 3/3/10

Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1, Task:

#	Name	Trace	Sample Size	RT	Prd.RT	RRF M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	0.993	19.13	19.14	1.00000	2046797.19	2014.3015	2014.3015	100.0	1.27723	0.79	NO	
2														
3	13C-2,3,7,8-TCDF	315.9419	0.993	18.57	18.55	1.40173	2362606.25	1658.7375	1658.7375	82.3	0.91542	0.79	NO	
4	2,3,7,8-TCDF	303.9016	0.993	18.57	18.58	0.92135	286.57	0.2652	~~0.2227~~		0.29569	1.11	YES	
5	Total TCDFs	303.9016	0.993		21.44	0.92135		0.6070	~~0.4690~~		0.29569			
6														
7	13C-2,3,7,8-TCDD	331.9368	0.993	19.34	19.34	0.94961	1645548.00	1705.3513	1705.3513	84.7	1.34500	0.79	NO	
8	2,3,7,8-TCDD	319.8965	0.993	19.37	19.35	1.03870	58014.66	68.3692	68.3692		0.38766	0.76	NO	
9	Total TCDDs	319.8965	0.993		19.55	1.03870		68.3692	68.3692		0.38766			
10														
11	37CL-2,3,7,8-TCDD	327.8847	0.993	19.35	19.35	1.14465	790835.81	679.9291	0.0000	84.4	0.33831			
12														
13	13C-1,2,3,7,8-PeCDF	351.9000	0.993	24.15	24.13	1.11677	1820725.56	1604.4719	1604.4719	79.7	1.97339	1.59	NO	
14	1,2,3,7,8-PeCDF	339.8597	0.993	24.22	24.19	0.98929	104.51	0.1169	~~0.1078~~		0.38109	1.28	YES	
15	2,3,4,7,8-PeCDF	339.8597	0.993		25.66	0.94936					0.39712		NO	
16	Total F2 PeCDFs	339.8597	0.993		34.47	0.96932		0.2265	~~0.1717~~		~~0.38894~~ 0.397			
17	Total F1 PeCDFs	339.8597	0.993		36.56	0.96932		0.1576	~~0.0920~~		~~0.37359~~			
18														
19	13C-1,2,3,7,8-PeCDD	367.8949	0.993	26.45	26.43	0.77603	1236211.50	1567.7105	1567.7105	77.8	2.23464	1.61	NO	
20	1,2,3,7,8-PeCDD	355.8546	0.993	26.47	26.47	0.96958	~~744.98~~	1.2520	~~1.2520~~ J MUSE		0.59511	1.37	NO	03-Mar-10
21	Total PeCDDs	355.8546	0.993		31.10	0.96958		1.3534	~~1.3534~~ 1.252		0.59511			
22														
23	13C-1,2,3,7,8,9-HxCDD	401.8559	0.993	32.97	32.97	1.00000	1443881.94	2014.3015	2014.3015	100.0	1.78641	1.34	NO	
24														
25	13C-1,2,3,4,7,8-HxCDF	383.8639	0.993	31.75	31.74	0.97183	1227535.81	1762.1281	1762.1281	87.5	4.34981	0.52	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	0.993		31.77	1.20038					0.34129		NO	
27	1,2,3,6,7,8-HxCDF	373.8208	0.993		31.87	1.34082					0.30554		NO	
28	2,3,4,6,7,8-HxCDF	373.8208	0.993		32.49	1.25668					0.32600		NO	
29	1,2,3,7,8,9-HxCDF	373.8208	0.993		33.16	1.07528					0.38100		NO	
30	Total HxCDFs	373.8208	0.993		0.00	1.21829					~~0.17241~~ 0.1381			
31														

RK 3/4/10

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: X:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Wednesday, March 03, 2010 10:50:10 Pacific Standard Time
Printed: Wednesday, March 03, 2010 10:51:14 Pacific Standard Time

Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1, Task:

#	Name	Trace	Sample Size	RT	Prd.RT	RRF M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
32	13C-1,2,3,6,7,8-HxCDD	401.8559	0.993	32.70	32.68	0.89936	1166203.75	1808.9741	1808.9741	89.8	1.98631	1.30	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	0.993		32.62	0.90180					0.48975		NO	
34	1,2,3,6,7,8-HxCDD	389.8157	0.993		32.71	1.09904					0.40186		NO	
35	1,2,3,7,8,9-HxCDD	389.8157	0.993		33.00	1.06390					0.41513		NO	
36	Total HxCDDs	389.8157	0.993		0.00	1.02158					~~0.23132~~ 0.490			
37														
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	0.993	34.51	34.51	0.84273	1088073.94	1801.1961	1801.1961	89.4	4.22830	0.44	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	0.993	34.48	34.52	1.30670	852.94	1.2084	1.2084 J		0.37644	1.16	NO	03-Mar-10
40	1,2,3,4,7,8,9-HpCDF	407.7818	0.993		35.65	1.06434					0.46215		NO	
41	Total HpCDFs	407.7818	0.993		0.00	1.18552		2.4765	✓2.3359		0.41491			
42														
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	0.993	35.34	35.32	0.79749	1074771.63	1880.1209	1880.1209	93.3	3.77349	1.07	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	0.993		35.35	0.99684			1.5597		0.86511		NO	
45	Total HpCDDs	423.7766	0.993		0.01	0.99684		2.2050	✓~~2.2050~~ 3.7646	SL 3/4/10	0.86511			
46														
47	13C-OCDD	469.7779	0.993	37.85	37.85	0.59869	1533129.13	3572.4926	3572.4926	88.7	4.13403	0.88	NO	
48	OCDF	441.7428	0.993	37.99	37.97	1.26224	1039.65	2.1643	2.1643 J		0.89922	0.91	NO	03-Mar-10
49	OCDD	457.7377	0.993	37.86	37.86	1.11522	2173.51	5.1213	4.6280 JQ		0.94848	1.09	YES	
50														
51														
52	Function 1 PFK	330.97920	1.000		0.00	11489....					0.00000			
53	Function 2 PFK	342.97920	1.000		0.00	9733.6...					0.00000			
54	Function 3 PFK	380.97600	1.000		0.00	5225.1...					0.00000			
55	Function 4 PFK	430.97290	1.000		0.00	4454.8...					0.00000			
56	Function 5 PFK	442.97280	1.000		0.00	3910.7...					0.00000			
57	TCDF PCDPE	375.8364	1.000		0.00	45.934...					0.00000			
58	F1 PeCDF PCDPE	409.79740	1.000		0.00	76.179...					0.00000			
59	F2 PeCDF PCDPE	409.7974	1.000		0.00	92.309...					0.00000			
60	HXCDF PCDPE	445.7555	1.000		0.00	77.611...					0.00000			
61	HPCDF PCDPE	479.7165	1.000		0.00	88.953...					0.00000			
62	OCDF PCDPE	513.67750	1.000		0.00	102.26...					0.00000			

Quantify Totals Report MassLynx 4.1

Dataset: X:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Wednesday, March 03, 2010 10:50:10 Pacific Standard Time
Printed: Wednesday, March 03, 2010 10:51:14 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 02 Mar 2010 14:08:15
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1, Task:

Total TCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1	5	Total TCDFs	303.9016	18.17	233.662	0.2162	0.1671	0.92135	0.2957	1.291	0.770	YES	2.448
2	5	Total TCDFs	303.9016	19.17	135.741	0.1256	0.0802	0.92135	0.2957	0.385	0.770	YES	2.253
3	4	2,3,7,8-TCDF	303.9016	18.57	286.571	0.2652	0.2227	0.92135	0.2957	1.108	0.770	YES	2.879

Total TCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1	8	2,3,7,8-TCDD	319.8965	19.37	58014.660	68.3692	68.3692	1.03870	0.3877	0.761	0.770	NO	595.551

Total F2 PeCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1	14	1,2,3,7,8-PeCDF	339.8597	24.22	104.506	0.1169	0.1078	0.98929	0.3811	1.275	1.550	YES	2.641
2	16	Total F2 PeCD...	339.8597	23.70	96.093	0.1097	0.0640	0.96932	0.3889	0.549	1.550	YES	3.484

Total F1 PeCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1	17	Total F1 PeCD...	339.8597	17.15	138.066	0.1576	0.0920	0.96932	0.3736	0.550	1.550	YES	3.762

Total PeCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1	20	1,2,3,7,8-PeC...	355.8546	26.47	744.981	1.2520	1.2520	0.96958	0.5951	1.369	1.550	NO	9.063
2	21	Total PeCDDs	355.8546	26.10	60.362	0.1014	0.1014	0.96958	0.5951	1.719	1.550	NO	2.161

Total HxCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1													

Quantify Totals Report MassLynx 4.1

Dataset: X:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Wednesday, March 03, 2010 10:50:10 Pacific Standard Time
Printed: Wednesday, March 03, 2010 10:51:14 Pacific Standard Time

Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1, Task:

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1													

Total HxCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1													

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1													

Total HpCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1	41	Total HpCDFs	407.7818	34.83	812.047	1.2681	1.1275	1.18552	0.4149	0.829	1.040	YES	8.907
2	39	1,2,3,4,6,7,8-H...	407.7818	34.48	852.943	1.2084	1.2084	1.30670	0.3764	1.160	1.040	NO	9.161

Total HpCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (...	Ratio...	S/N
1	45	Total HpCDDs	423.7766	34.78	1172.789	2.2050	2.2050	0.99684	0.8651	1.138	1.040	NO	8.097

See next page

Quantify Sample Summary Report **MassLynx 4.1**

Dataset: V:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290Hak.qld

Last Altered: Thursday, March 04, 2010 07:30:28 Pacific Standard Time
Printed: Thursday, March 04, 2010 07:31:41 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 02 Mar 2010 14:08:15
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1, Task:

#	Name	Trace	Sample Size	RT	Prd.RT	RRF M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Ratio Fl...	Mod Date
44	1,2,3,4,6,7,8-HpCDD	423.7766	0.993	35.34	35.35	0.99684	829.58	1.5597	1.5597		0.86511	0.9981	NO	04-Mar-10
45	Total HpCDDs	423.7766	0.993		0.01	0.99684		3.7646	3.7646		0.86511			

Sh 3/4/10

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

L 30 45 48

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:13:21 Pacific Standard Time

Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1, Task:

#	Name	Trace	Sample Size	RT	Prd.RT	RRF M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Prd.Ratio	Ratio ...	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	0.993	19.13	19.14	1.000	2046797.19	2014.3015	2014.3015	100.0	1.2772	0.792	0.770	NO	
2															
3	13C-2,3,7,8-TCDF	315.9419	0.993	18.57	18.55	1.402	2362606.25	1658.7375	1658.7375	82.3	0.9154	0.792	0.770	NO	
4	2,3,7,8-TCDF	303.9016	0.993	18.57	18.58	0.921	286.57	0.2652	0.2227		0.2957	1.108	0.770	YES	
5	Total TCDFs	303.9016	0.993		21.44	0.921		0.6070	0.4699		0.2957				
6															
7	13C-2,3,7,8-TCDD	331.9368	0.993	19.34	19.34	0.950	1645548.00	1705.3513	1705.3513	84.7	1.3450	0.791	0.770	NO	
8	2,3,7,8-TCDD	319.8965	0.993	19.37	19.35	1.039	58014.66	68.3692	68.3692		0.3877	0.761	0.770	NO	
9	Total TCDDs	319.8965	0.993		19.55	1.039		68.3692	68.3692		0.3877				
10															
11	37CL-2,3,7,8-TCDD	327.8847	0.993	19.35	19.35	1.145	790835.81	679.9291	0.0000	84.4	0.3383				
12															
13	13C-1,2,3,7,8-PeCDF	351.9000	0.993	24.15	24.13	1.117	1820725.56	1604.4719	1604.4719	79.7	1.9734	1.587	1.550	NO	
14	1,2,3,7,8-PeCDF	339.8597	0.993	24.22	24.19	0.989	104.51	0.1169	0.1078		0.3811	1.275	1.550	YES	
15	2,3,4,7,8-PeCDF	339.8597	0.993		25.66	0.949					0.3971		1.550	NO	
16	Total F2 PeCDFs	339.8597	0.993		34.47	0.969		0.2265	0.1717		0.3889				
17	Total F1 PeCDFs	339.8597	0.993		36.56	0.969		0.1576	0.0920		0.3736				
18															
19	13C-1,2,3,7,8-PeCDD	367.8949	0.993	26.45	26.43	0.776	1236211.50	1567.7105	1567.7105	77.8	2.2346	1.607	1.550	NO	
20	1,2,3,7,8-PeCDD	355.8546	0.993	26.47	26.47	0.970	524.49	0.8814	0.5511		0.5951	3.078	1.550	YES	
21	Total PeCDDs	355.8546	0.993		31.10	0.970		0.9829	0.6526		0.5951				
22															
23	13C-1,2,3,7,8,9-HxCDD	401.8559	0.993	32.97	32.97	1.000	1443881.94	2014.3015	2014.3015	100.0	1.7864	1.342	1.240	NO	
24															
25	13C-1,2,3,4,7,8-HxCDF	383.8639	0.993	31.75	31.74	0.972	1227535.81	1762.1281	1762.1281	87.5	4.3498	0.519	0.510	NO	
26	1,2,3,4,7,8-HxCDF	373.8208	0.993		31.77	1.200					0.3413		1.240	NO	
27	1,2,3,6,7,8-HxCDF	373.8208	0.993		31.87	1.341					0.3055		1.240	NO	
28	2,3,4,6,7,8-HxCDF	373.8208	0.993		32.49	1.257					0.3260		1.240	NO	
29	1,2,3,7,8,9-HxCDF	373.8208	0.993		33.16	1.075					0.3810		1.240	NO	
30	Total HxCDFs	373.8208	0.993		0.00	1.218					0.1724				
31															
32	13C-1,2,3,6,7,8-HxCDD	401.8559	0.993	32.70	32.68	0.899	1166203.75	1808.9741	1808.9741	89.8	1.9863	1.298	1.240	NO	
33	1,2,3,4,7,8-HxCDD	389.8157	0.993	33.01	32.62	0.902	309.74	0.5933	0.4200		0.4897	2.164	1.240	YES	
34	1,2,3,6,7,8-HxCDD	389.8157	0.993		32.71	1.099					0.4019		1.240	NO	
35	1,2,3,7,8,9-HxCDD	389.8157	0.993		33.00	1.064					0.4151		1.240	NO	

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:13:21 Pacific Standard Time

Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1, Task:

#	Name	Trace	Sample Size	RT	Prd.RT	RRF	M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Prd.Ratio	Ratio ...	Mod Date
36	Total HxCDDs	389.8157	0.993		0.00	1.022			0.5933	0.4200		0.4323				
37																
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	0.993	34.51	34.51	0.843		1088073.94	1801.1961	1801.1961	89.4	4.2283	0.443	0.440	NO	
39	1,2,3,4,6,7,8-HpCDF	407.7818	0.993	34.83	34.52	1.307		812.05	1.1505	1.0230		0.3764	0.829	1.040	YES	
40	1,2,3,4,7,8,9-HpCDF	407.7818	0.993		35.65	1.064						0.4622		1.040	NO	
41	Total HpCDFs	407.7818	0.993		0.00	1.186			1.1505	1.0230		0.4149				
42																
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	0.993	35.34	35.32	0.797		1074771.63	1880.1209	1880.1209	93.3	3.7735	1.068	1.040	NO	
44	1,2,3,4,6,7,8-HpCDD	423.7766	0.993		35.35	0.997						0.8651		1.040	NO	
45	Total HpCDDs	423.7766	0.993		0.01	0.997			1.8550	1.6157		0.8651				
46																
47	13C-OCDD	469.7779	0.993	37.85	37.85	0.599		1533129.13	3572.4926	3572.4926	88.7	4.1340	0.883	0.890	NO	
48	OCDF	441.7428	0.993	37.99	37.97	1.262		636.08	1.3242	1.2111		0.8992	1.066	0.890	YES	
49	OCDD	457.7377	0.993	37.86	37.86	1.115		2173.51	5.1213	4.6280		0.9485	1.091	0.890	YES	
50																
51																
52	Function 1 PFK	330.97920	1.000		18.17	11489....						0.0000				
53	Function 2 PFK	342.97920	1.000		25.55	9733.6...						0.0000				
54	Function 3 PFK	380.97600	1.000		32.30	5225.1...						0.0000				
55	Function 4 PFK	430.97290	1.000	34.57	34.60	4454.8...		2818.95	0.6328		63.3	1.8718				
56	Function 5 PFK	442.97280	1.000		38.49	3910.7...						0.0000				
57	TCDF PCDPE	375.8364	1.000		21.12	45.934						0.0000				
58	F1 PeCDF PCDPE	409.79740	1.000	18.78	18.83	76.179		37.37	0.4905		49.1	0.6700				
59	F2 PeCDF PCDPE	409.7974	1.000	23.30	23.23	92.309		46.45	0.5033		50.3	0.4500				
60	HXCDF PCDPE	445.7555	1.000	33.75	33.73	77.611		15.14	0.1951		19.5	0.1511				
61	HPCDF PCDPE	479.7165	1.000		34.51	88.954						0.0000				
62	OCDF PCDPE	513.67750	1.000		39.62	102.269						0.0000				

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:13:58 Pacific Standard Time

Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1, Task:

Total TCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (L	Ratio	S/N
1	5	Total TCDFs	303.9016	18.18	233.662	0.2162	0.1671	0.92135	0.2957	1.291	0.770	YES	2.448
2	5	Total TCDFs	303.9016	19.17	135.741	0.1256	0.0802	0.92135	0.2957	0.385	0.770	YES	2.253
3	4	2,3,7,8-TCDF	303.9016	18.57	286.571	0.2652	0.2227	0.92135	0.2957	1.108	0.770	YES	2.879

Total TCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (L	Ratio	S/N
1	8	2,3,7,8-TCDD	319.8965	19.37	58014.660	68.3692	68.3692	1.03870	0.3877	0.761	0.770	NO	595.551

Total F2 PeCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (L	Ratio	S/N
1	...	1,2,3,7,8-PeCDF	339.8597	24.22	104.506	0.1169	0.1078	0.98929	0.3811	1.275	1.550	YES	2.641
2	...	Total F2 PeCD...	339.8597	23.70	96.093	0.1097	0.0640	0.96932	0.3889	0.549	1.550	YES	3.484

Total F1 PeCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (L	Ratio	S/N
1	...	Total F1 PeCD...	339.8597	17.15	138.066	0.1576	0.0920	0.96932	0.3736	0.550	1.550	YES	3.762

Total PeCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (L	Ratio	S/N
1	...	1,2,3,7,8-PeC...	355.8546	26.47	524.487	0.8814	0.5511	0.96958	0.5951	3.078	1.550	YES	8.219
2	...	Total PeCDDs	355.8546	26.10	60.362	0.1014	0.1014	0.96958	0.5951	1.719	1.550	NO	2.161

Total HxCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (L	Ratio	S/N
1													

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (L	Ratio	S/N
1													

Total HxCDDs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (L	Ratio	S/N
1	...	1,2,3,4,7,8-Hx...	389.8157	33.01	309.742	0.5933	0.4200	0.90180	0.4897	2.164	1.240	YES	2.340

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (L	Ratio	S/N
1													

Total HpCDFs

	#	Name	Trace	RT	Abs.Resp	Conc.	EMPC	RRF Mean	EDL	Ratio	Ratio (L	Ratio	S/N
1	...	1,2,3,4,6,7,8-H...	407.7818	34.83	812.047	1.1505	1.0230	1.30670	0.3764	0.829	1.040	YES	8.907

Quantify Totals Report MassLynx 4.1

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:13:58 Pacific Standard Time

Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1, Task:

Total HpCDDs

1	...	Total HpCDDs	423.7766	34.78	986.653	1.8550	1.6157	0.99684	0.8651	0.799	1.040	YES	8.097

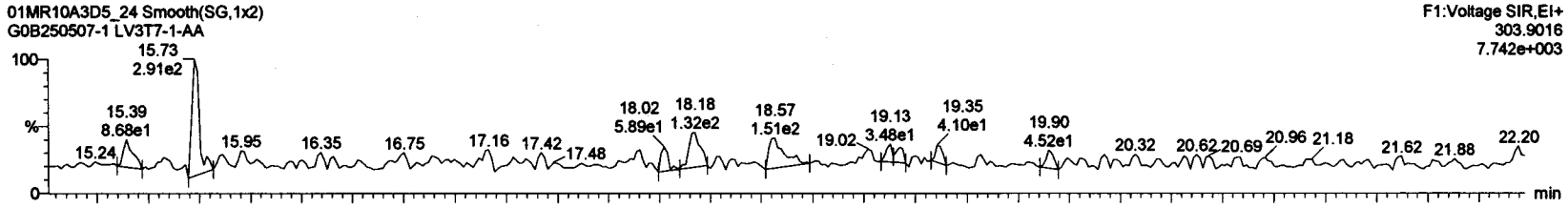
Quantify Sample Report **MassLynx 4.1**

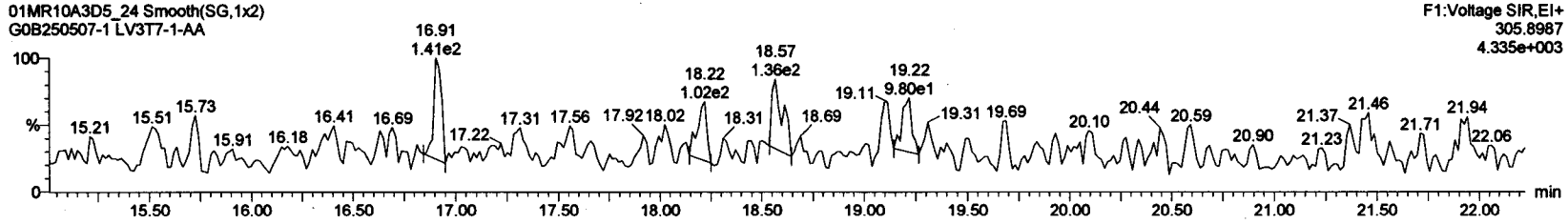
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

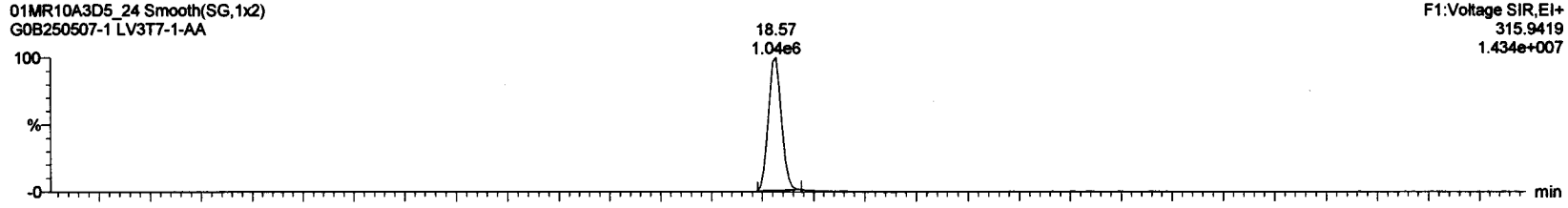
Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

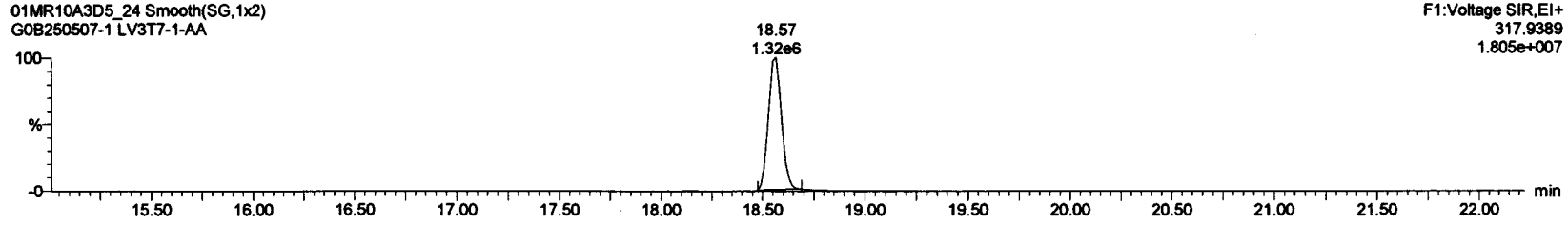
TCDFs





13C-TCDF





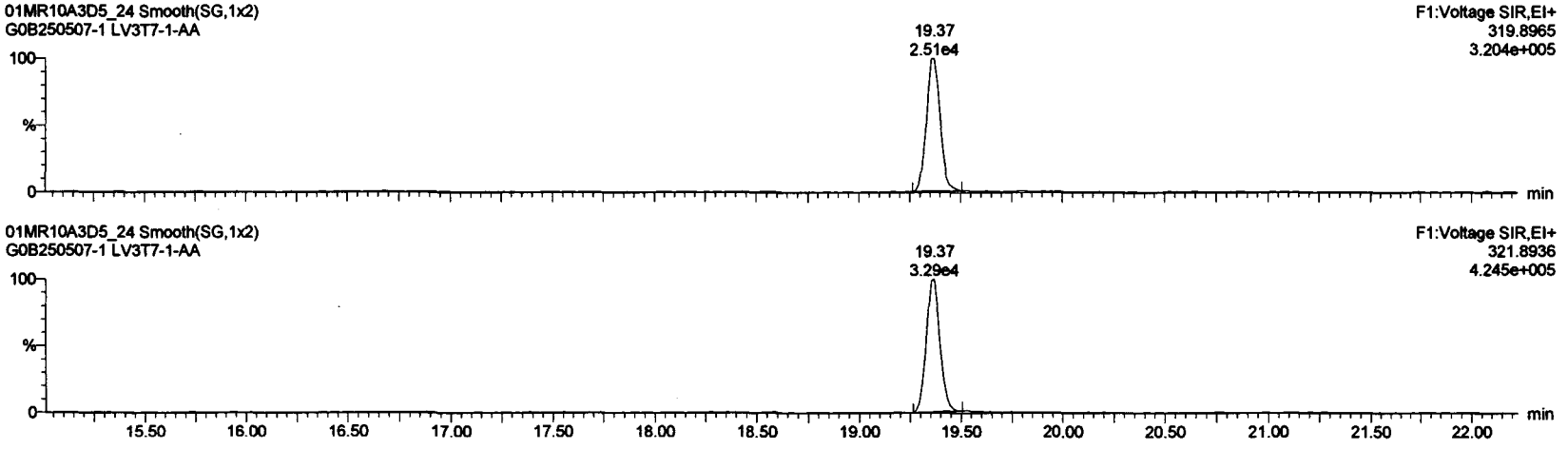
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

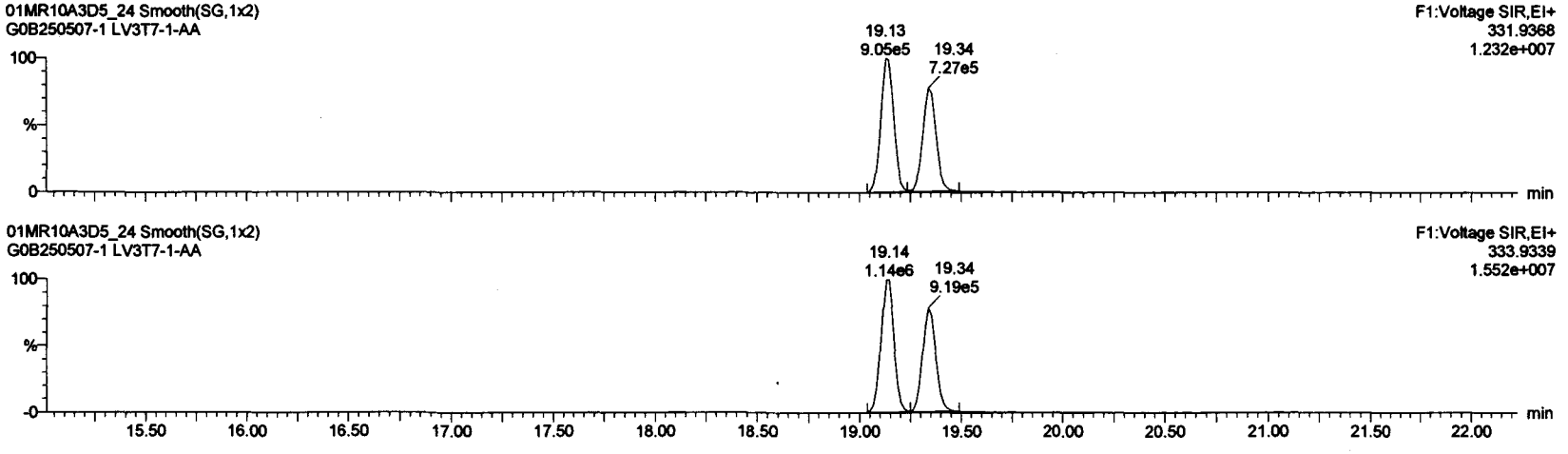
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

TCDDs



13C-TCDDs



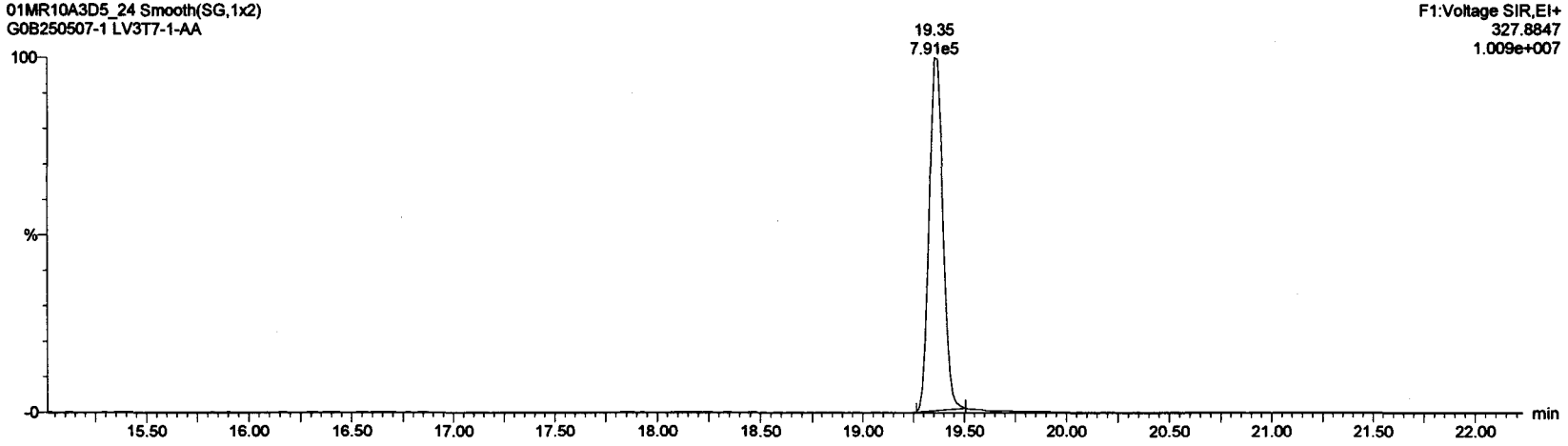
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

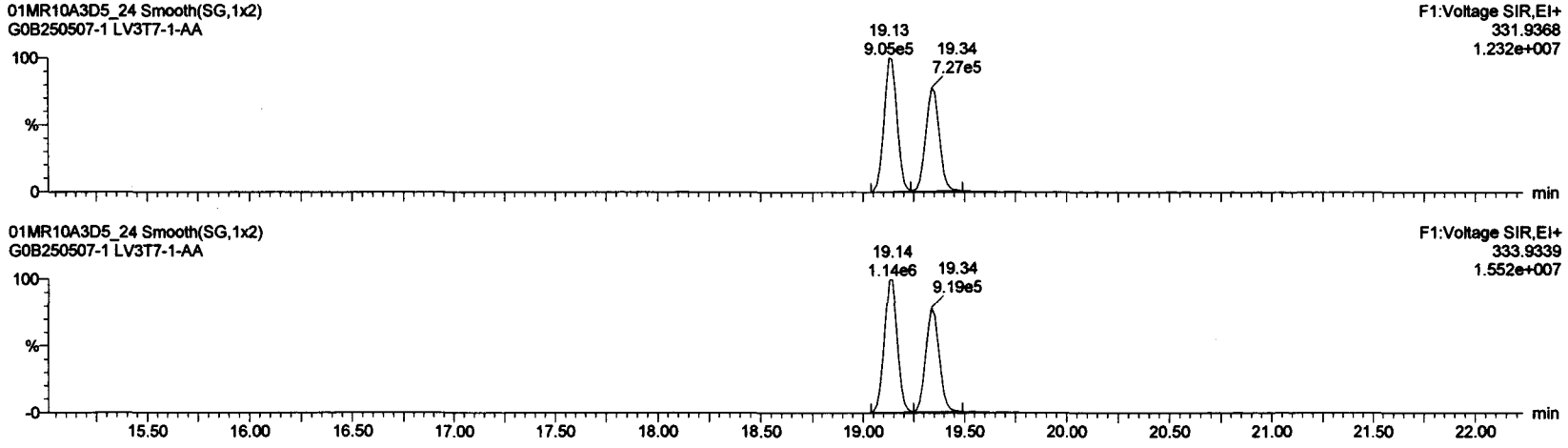
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

37CL-2,3,7,8-TCDD



13C-TCDDs



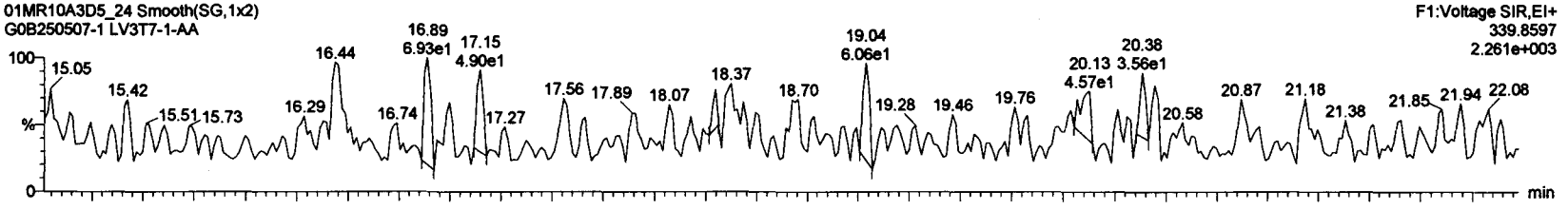
Quantify Sample Report **MassLynx 4.1**

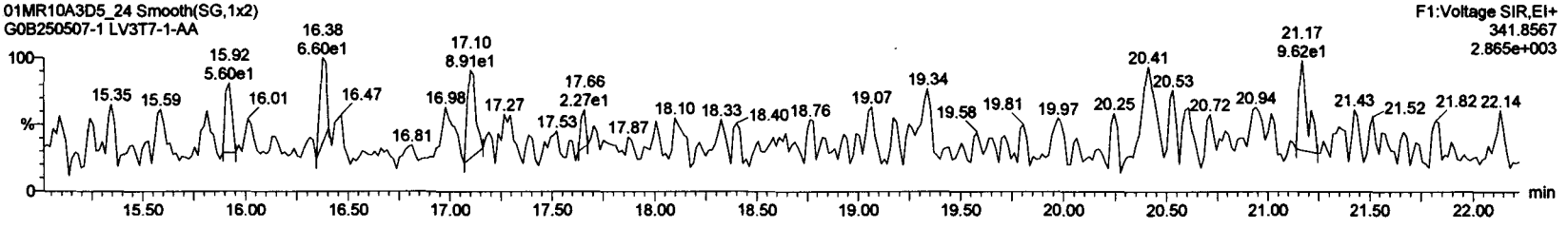
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

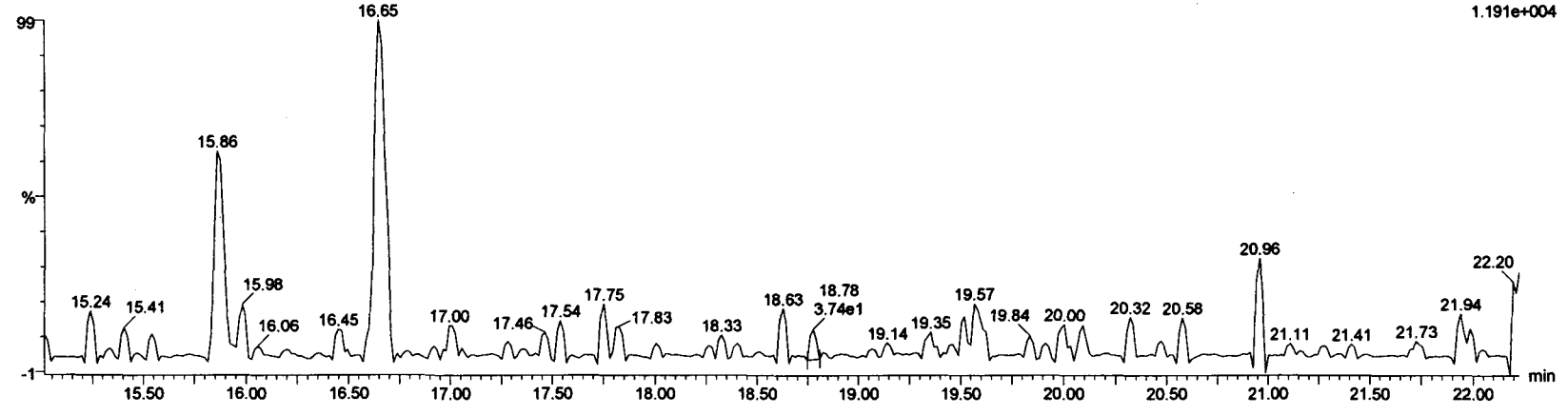
Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

F1 PeCDFs





F1 PeCDF PCDPE



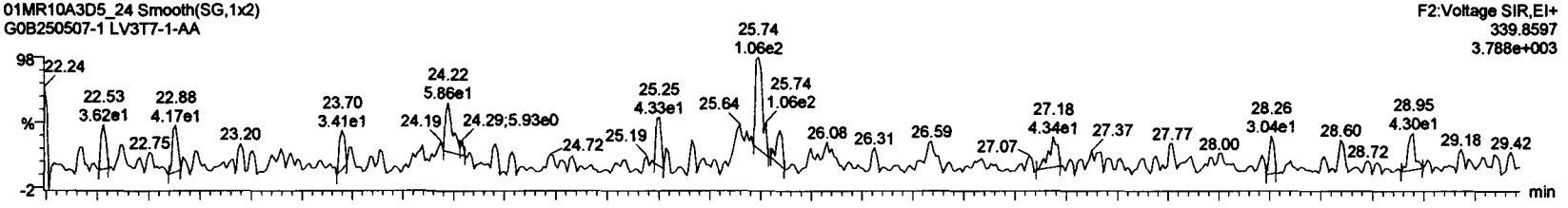
Quantify Sample Report **MassLynx 4.1**

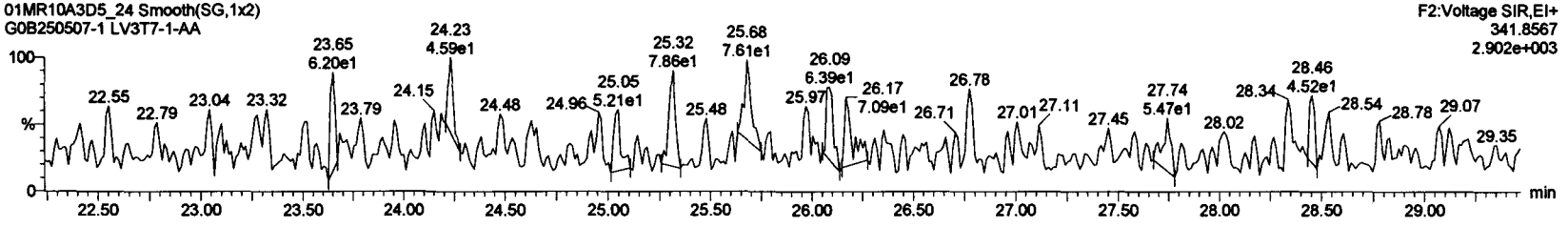
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

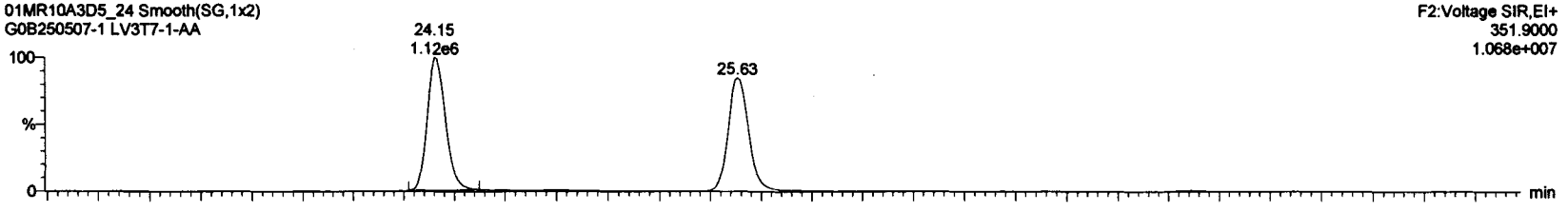
Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

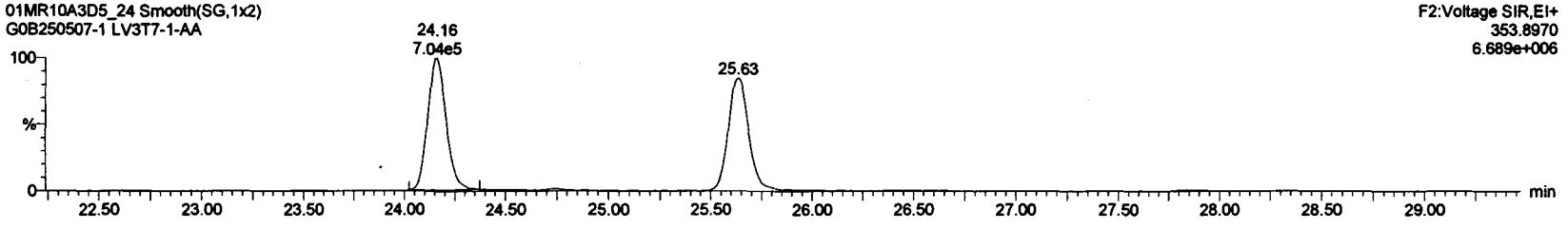
PeCDFs





13C-PeCDFs





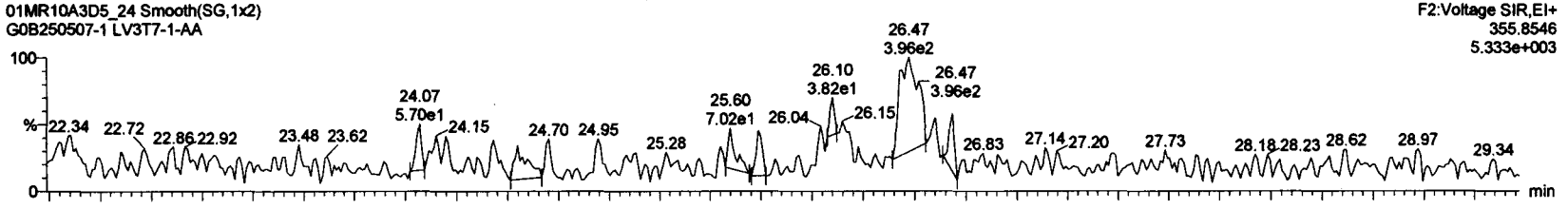
Quantify Sample Report **MassLynx 4.1**

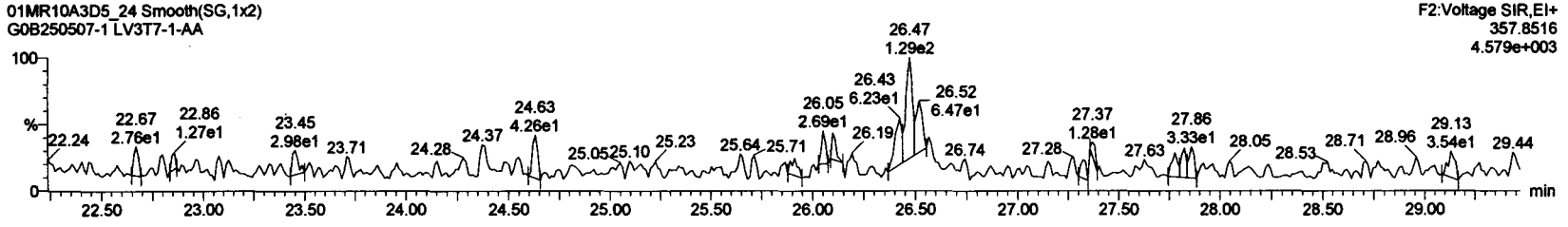
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

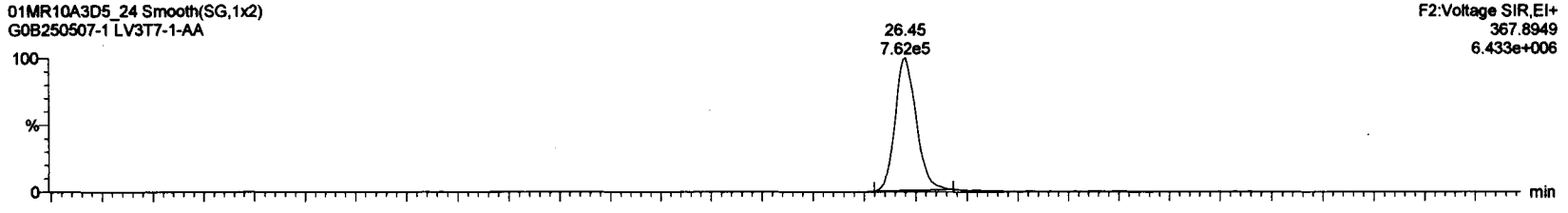
Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

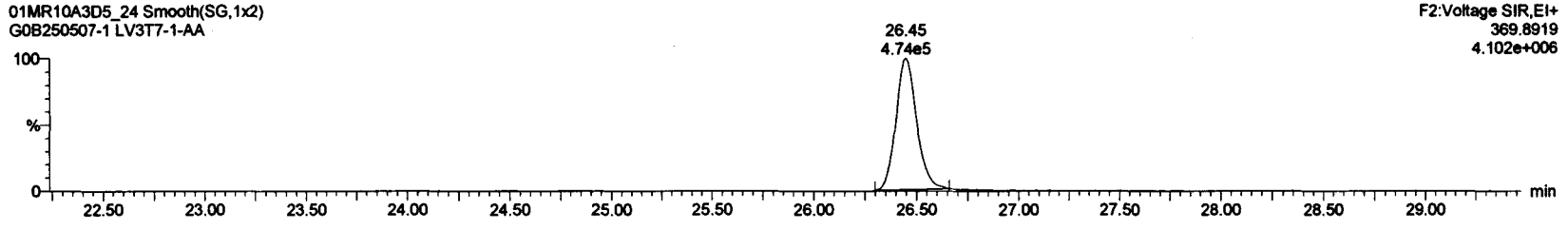
PeCDDs





13C-PeCDD





Quantify Compound Report **MassLynx 4.1**

Dataset: X:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Wednesday, March 03, 2010 10:50:10 Pacific Standard Time
Printed: Wednesday, March 03, 2010 10:50:21 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 02 Mar 2010 14:08:15
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

Sample Name: 01MR10A3D5_24

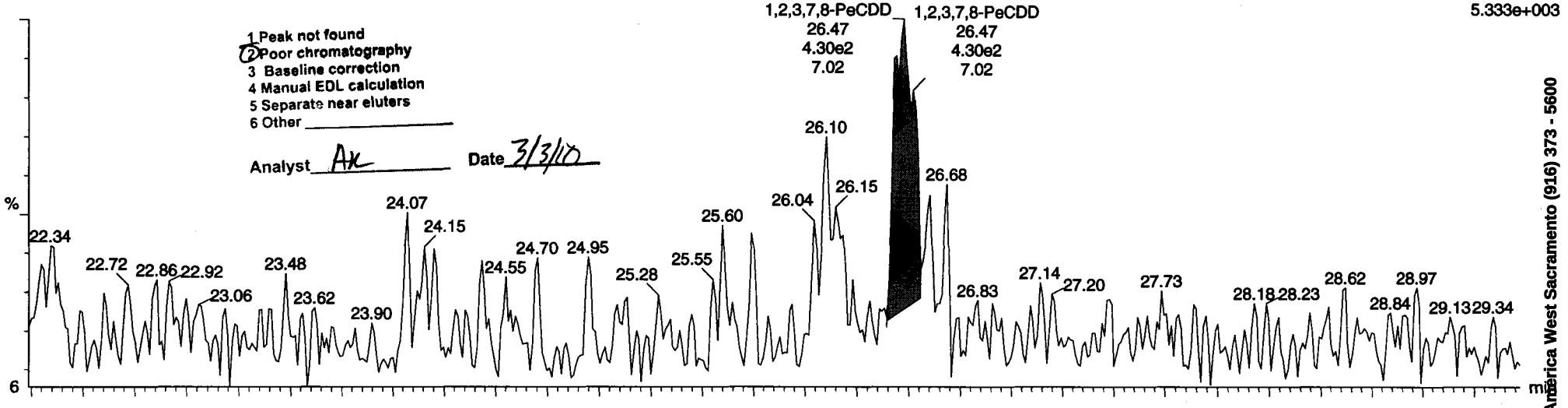
01MR10A3D5_24 Smooth(SG,1x2)
G0B250507-1 LV3T7-1-AA

F2:Voltage SIR,EI+
355.8546
5.333e+003

Manual Edit Codes

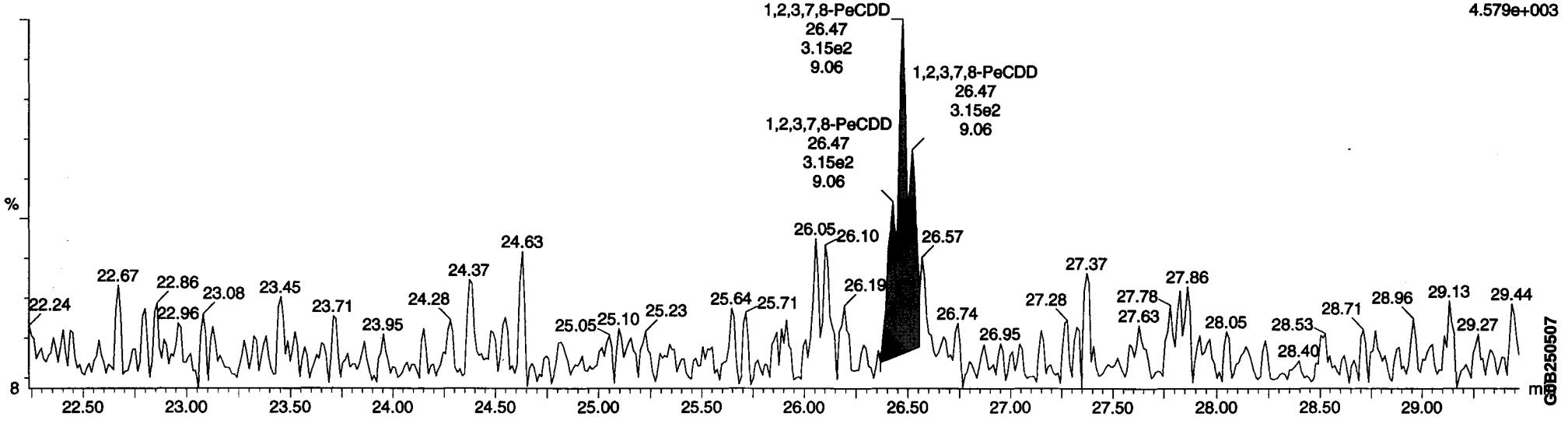
1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst Ax Date 3/3/10



01MR10A3D5_24 Smooth(SG,1x2)
G0B250507-1 LV3T7-1-AA

F2:Voltage SIR,EI+
357.8516
4.579e+003



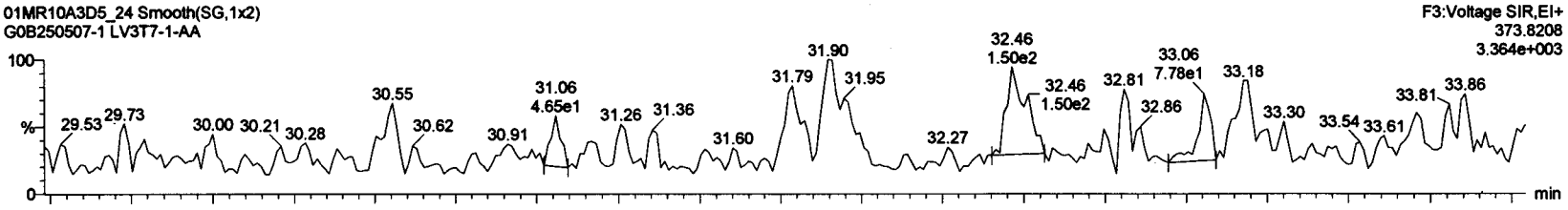
Quantify Sample Report **MassLynx 4.1**

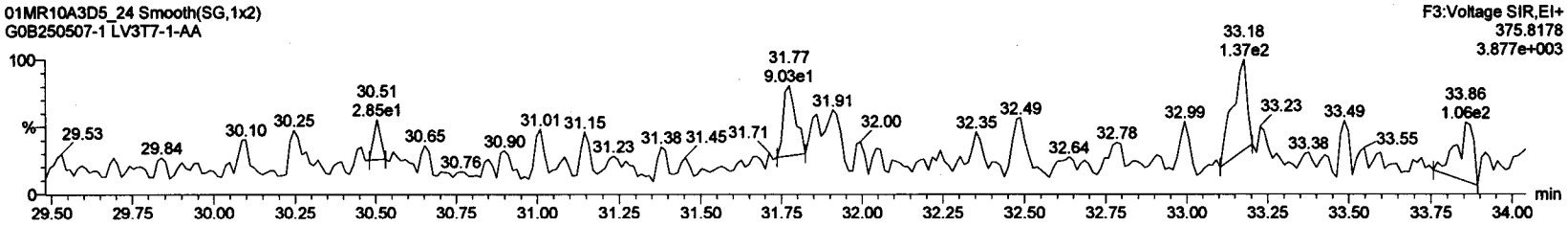
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

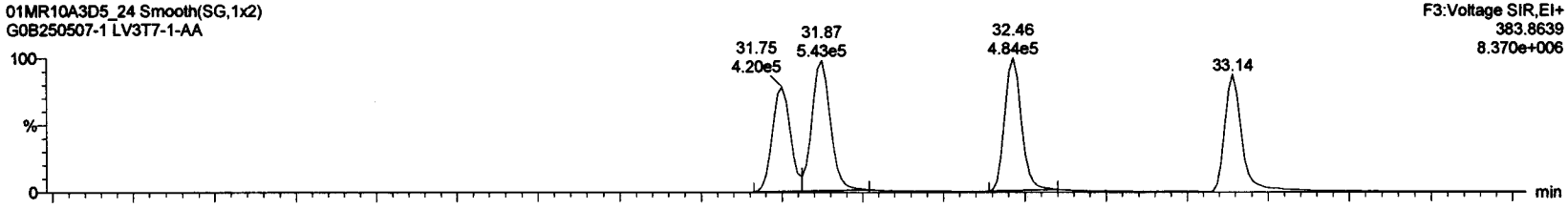
Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

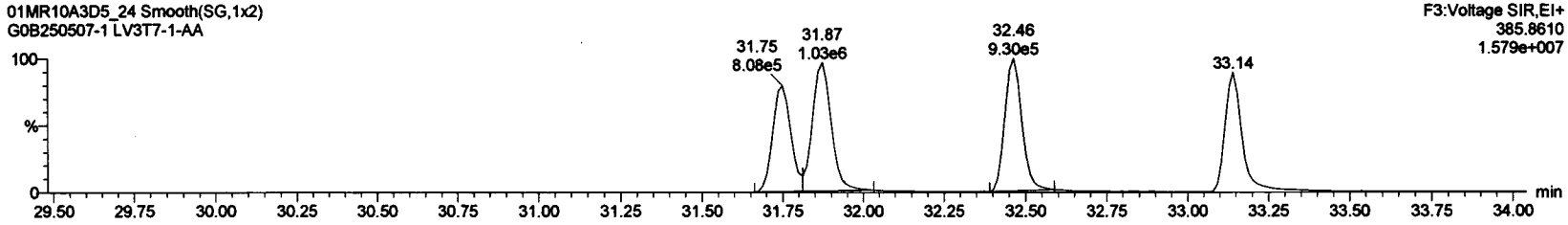
HxCDFs





13C-HxCDFs





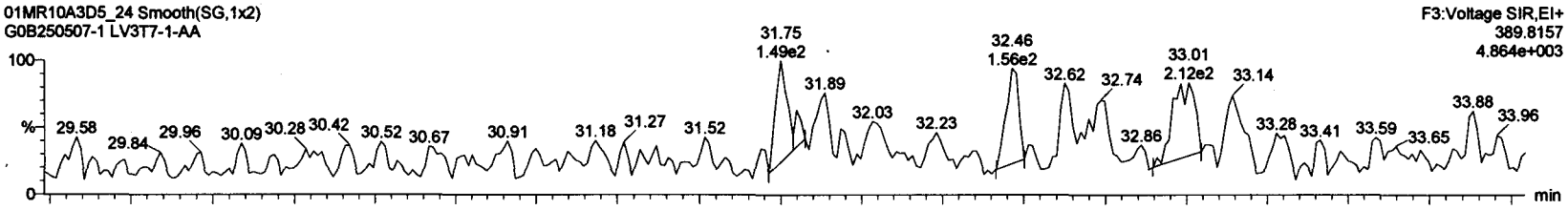
Quantify Sample Report **MassLynx 4.1**

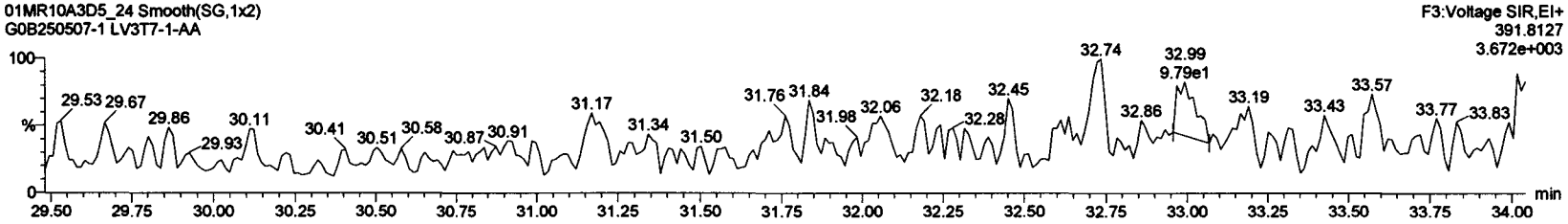
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

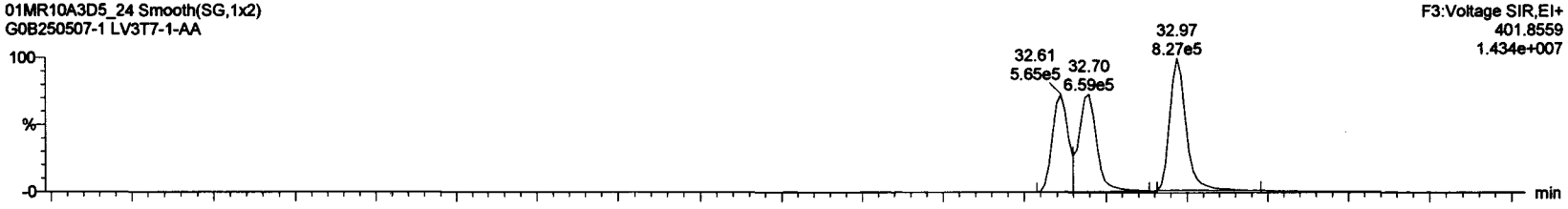
Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

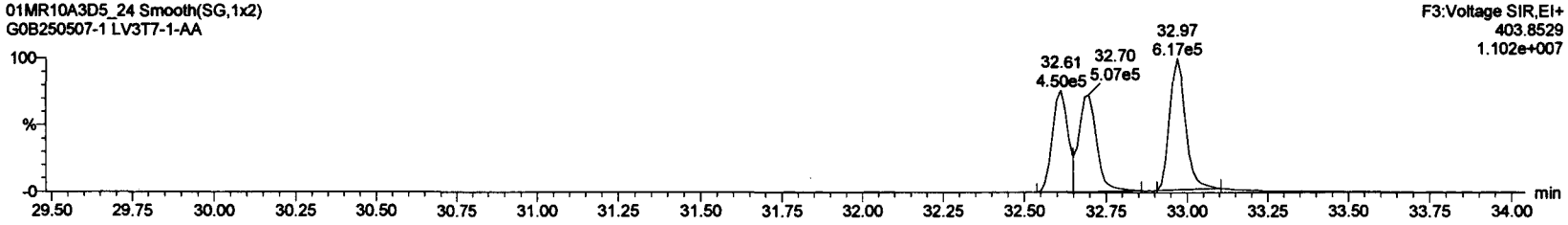
HxCDDs





13C-HxCDDs





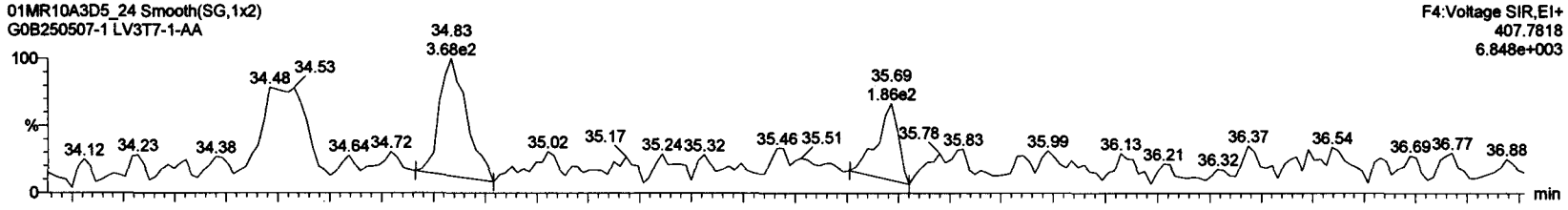
Quantify Sample Report **MassLynx 4.1**

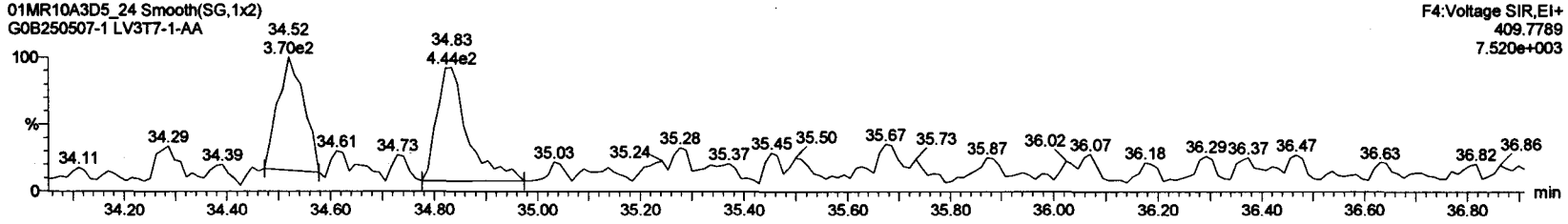
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

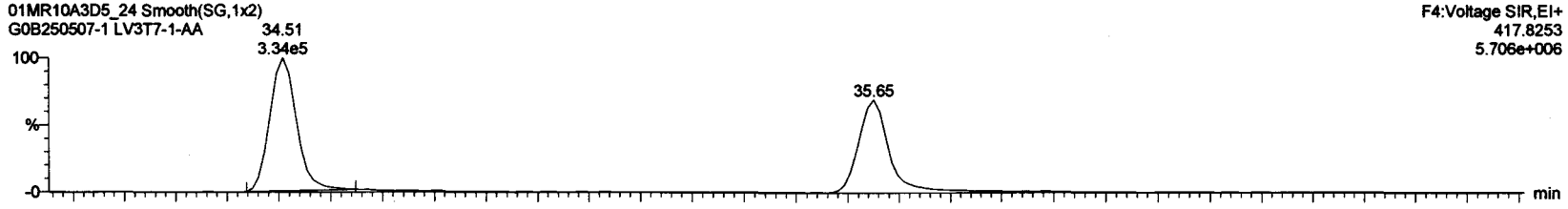
Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

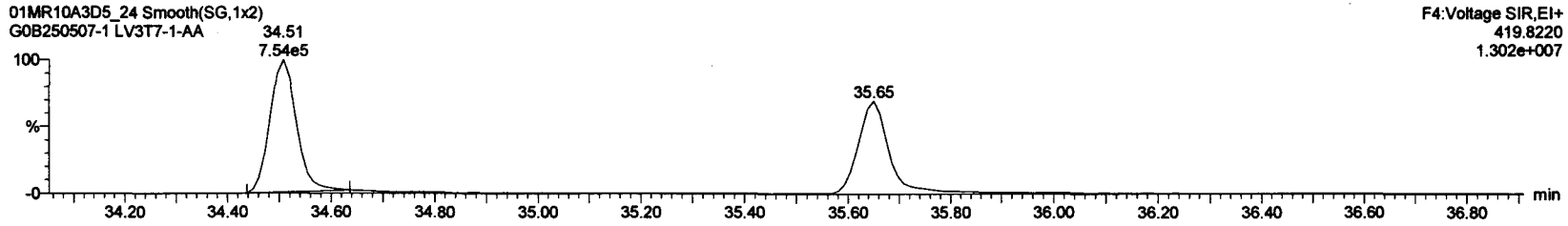
HpCDFs





13C-HpCDFs





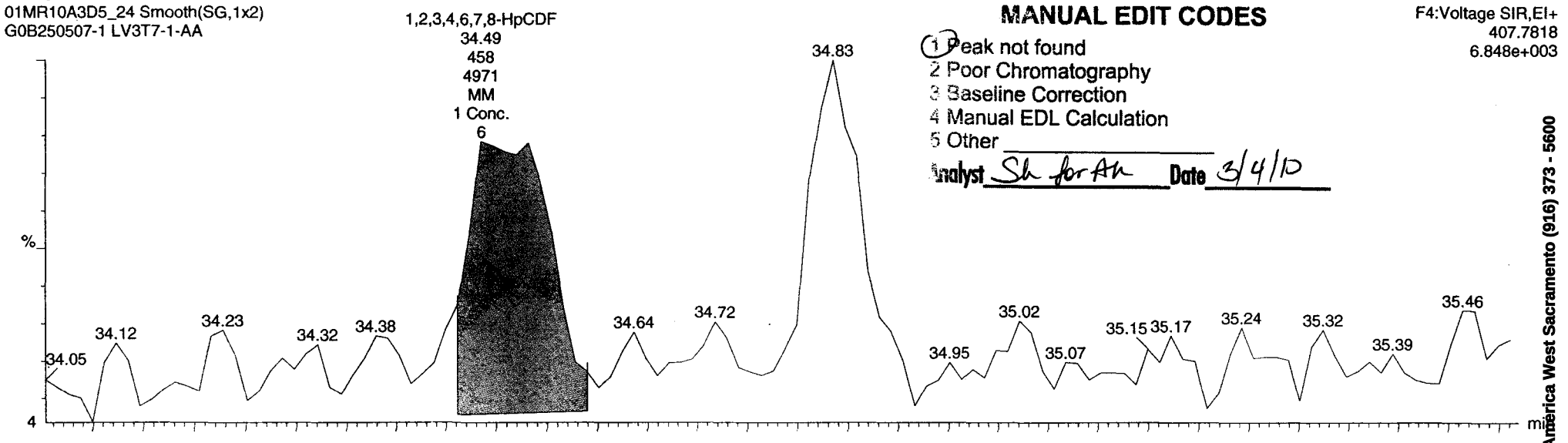
Quantify Compound Report **MassLynx 4.1**

Dataset: V:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290Hak.qld

Last Altered: Wednesday, March 03, 2010 10:50:10 Pacific Standard Time
Printed: Thursday, March 04, 2010 07:29:18 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 02 Mar 2010 14:08:15
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

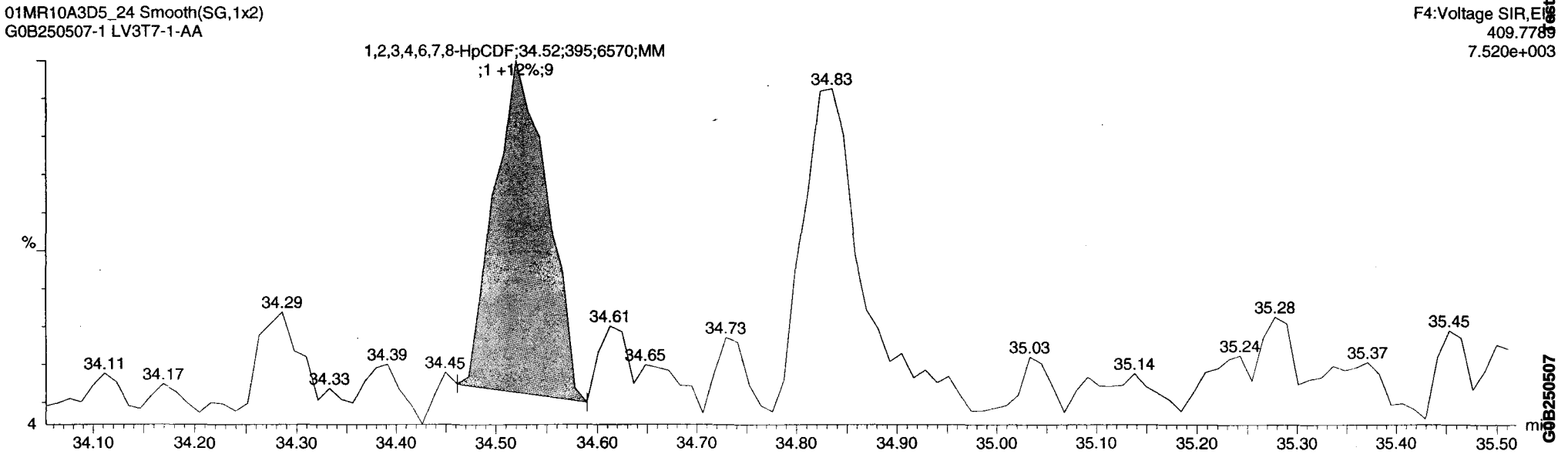
Sample Name: 01MR10A3D5_24



MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst Sh for Ah Date 3/4/10



TestAmerica West Sacramento (916) 373 - 5600

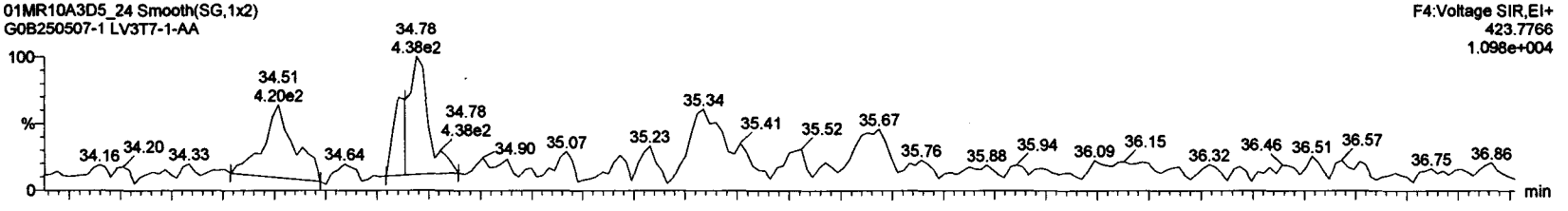
Quantify Sample Report **MassLynx 4.1**

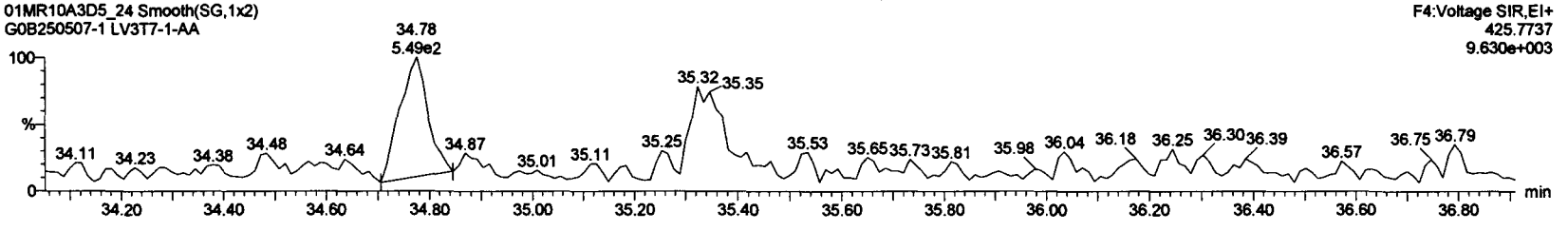
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

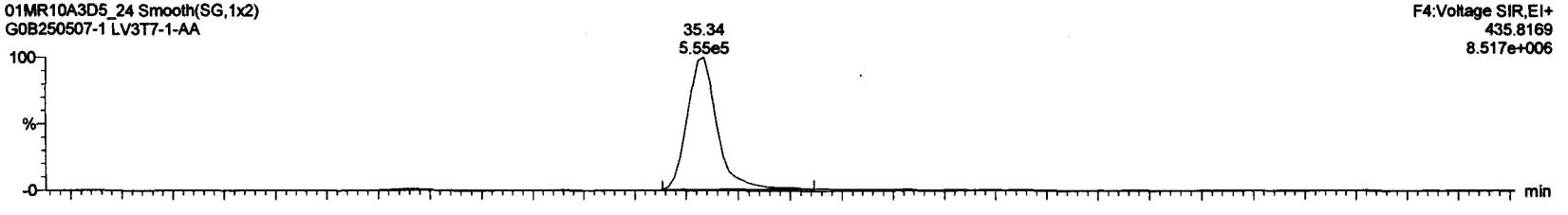
Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

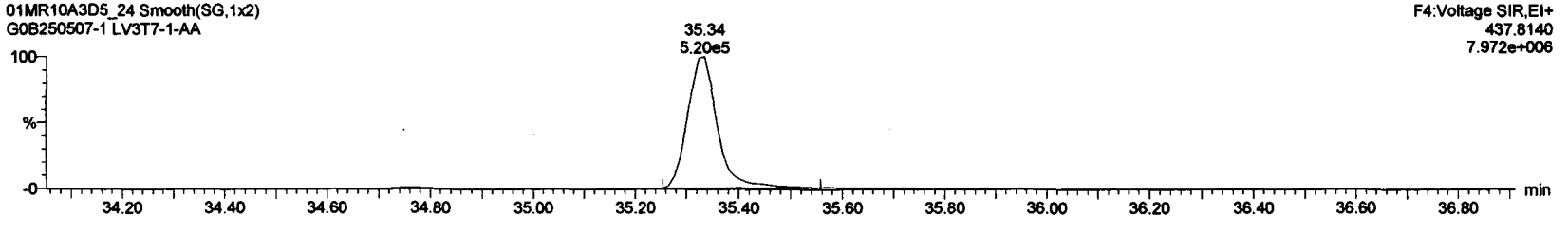
HpCDDs





13C-HpCDD





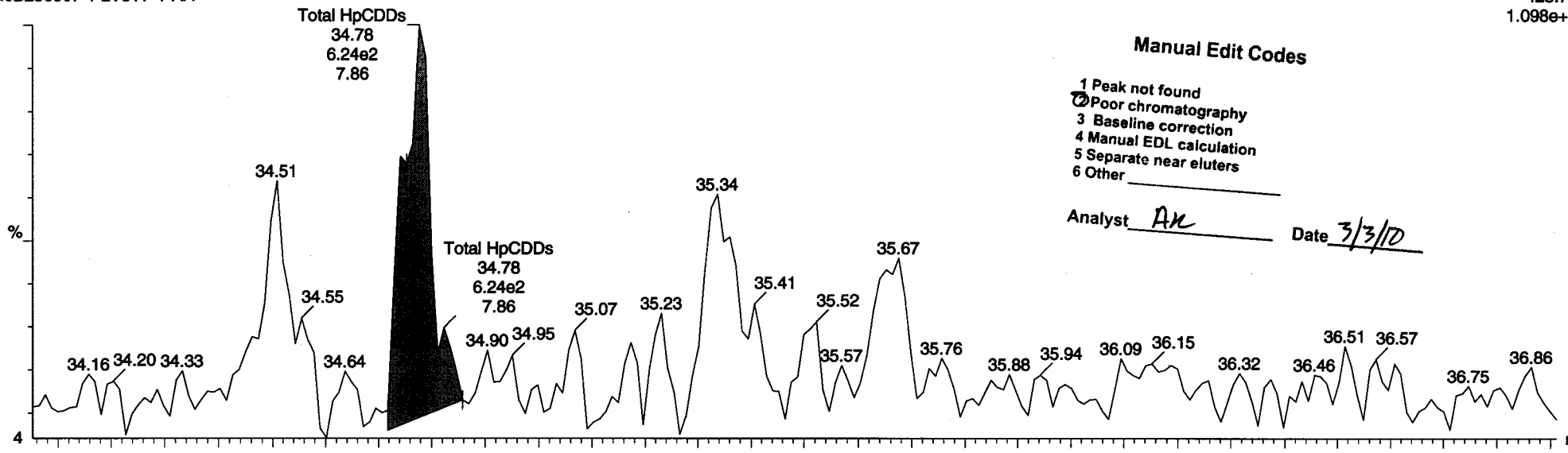
Dataset: X:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Wednesday, March 03, 2010 10:45:35 Pacific Standard Time
Printed: Wednesday, March 03, 2010 10:47:07 Pacific Standard Time

Sample Name: 01MR10A3D5_24

01MR10A3D5_24 Smooth(SG,1x2)
G0B250507-1 LV3T7-1-AA

F4:Voltage SIR,EI+
423.7766
1.098e+004



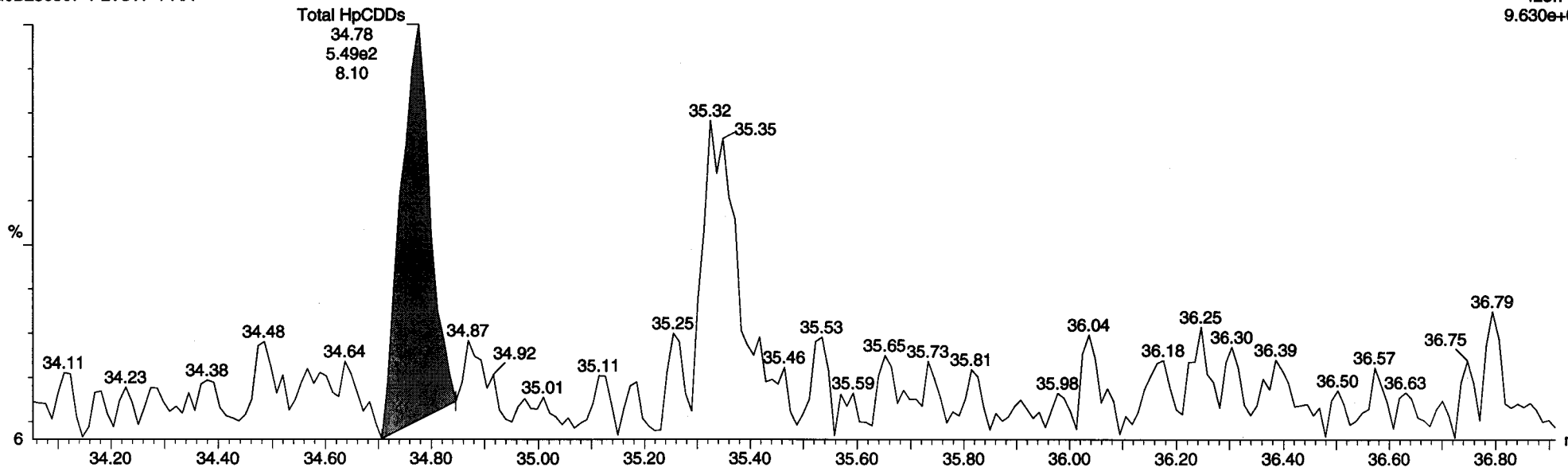
Manual Edit Codes

1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst AK Date 3/3/10

01MR10A3D5_24 Smooth(SG,1x2)
G0B250507-1 LV3T7-1-AA

F4:Voltage SIR,E
425.773
9.630e+00



91 of 361
Test America West Sacramento (916) 373 - 5600
G0B250507

Quantify Compound Report **MassLynx 4.1**

Dataset: V:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290Hak.qld

Last Altered: Thursday, March 04, 2010 07:30:28 Pacific Standard Time
Printed: Thursday, March 04, 2010 07:30:49 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 02 Mar 2010 14:08:15
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

Sample Name: 01MR10A3D5_24

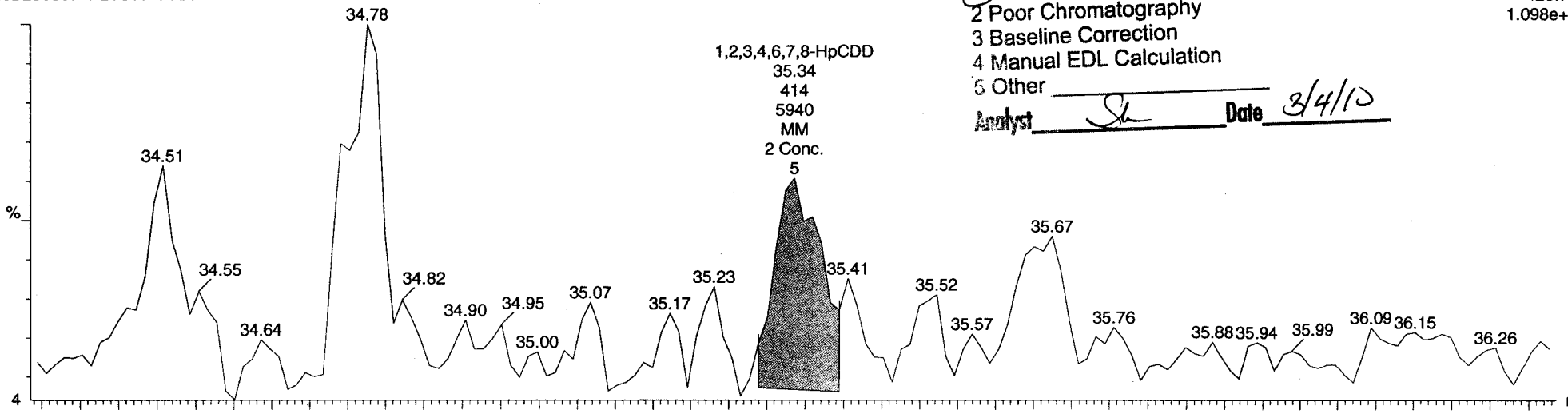
MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
5 Other _____

Analyst Sh Date 3/4/10

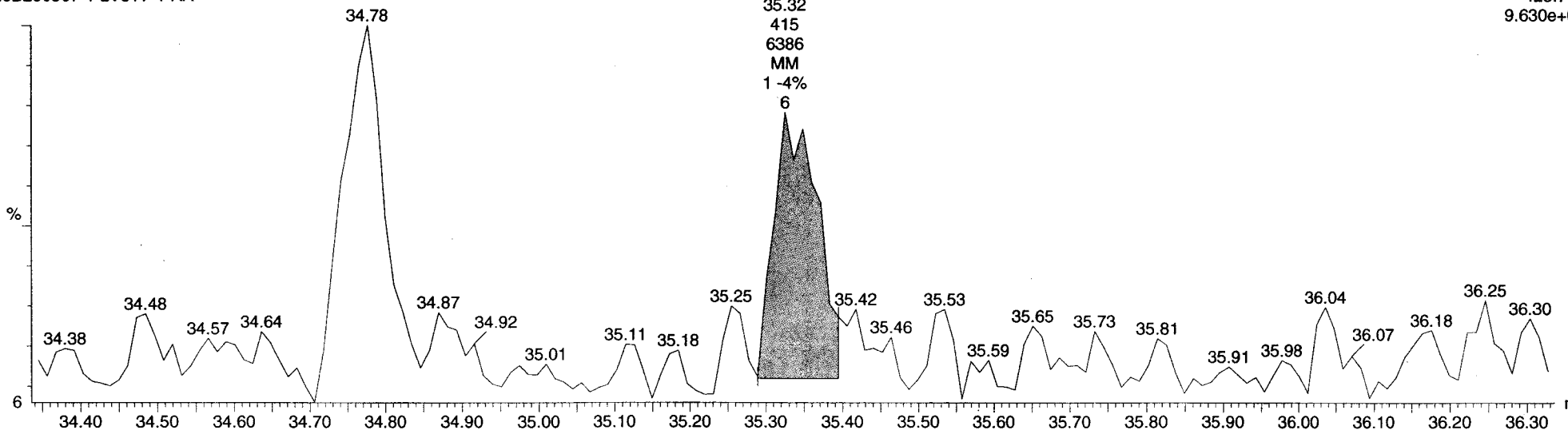
01MR10A3D5_24 Smooth(SG,1x2)
G0B250507-1 LV3T7-1-AA

F4:Voltage SIR,EI+
423.7766
1.098e+004



01MR10A3D5_24 Smooth(SG,1x2)
G0B250507-1 LV3T7-1-AA

F4:Voltage SIR,EI+
425.7787
9.630e+003



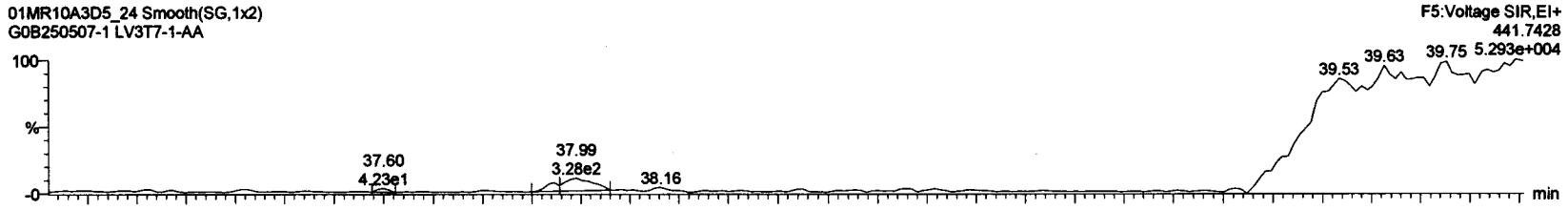
Quantify Sample Report **MassLynx 4.1**

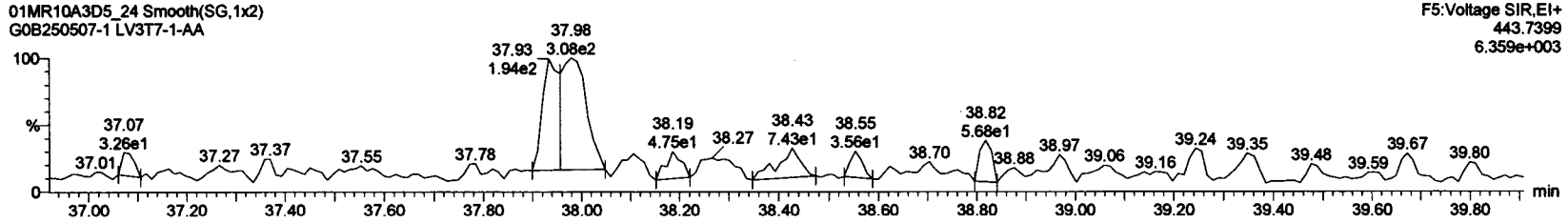
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

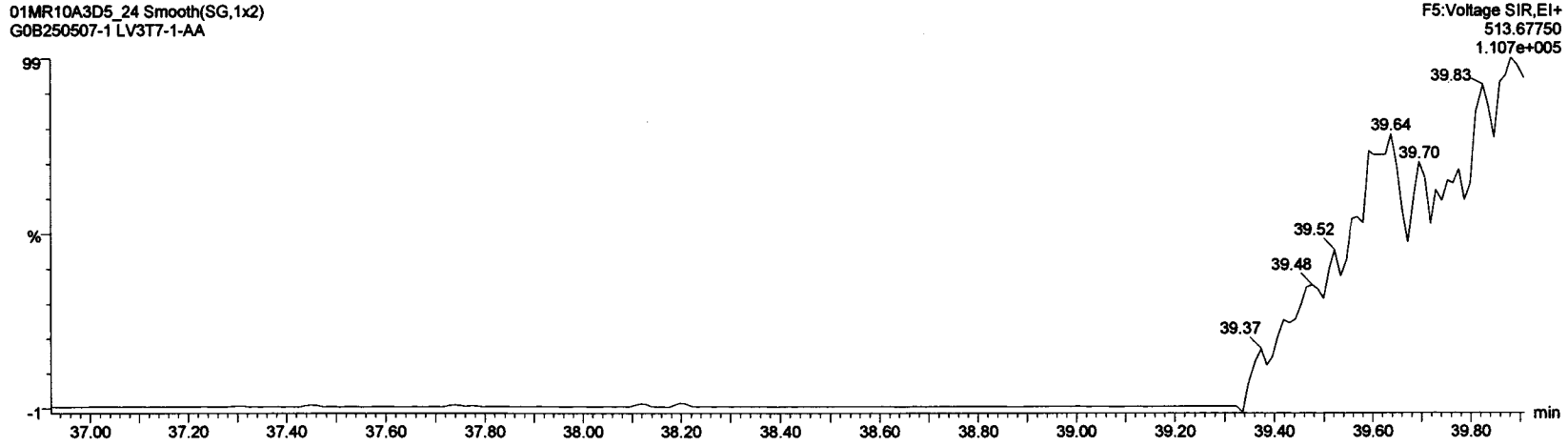
Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

OCDFs





OCDF PCDPE



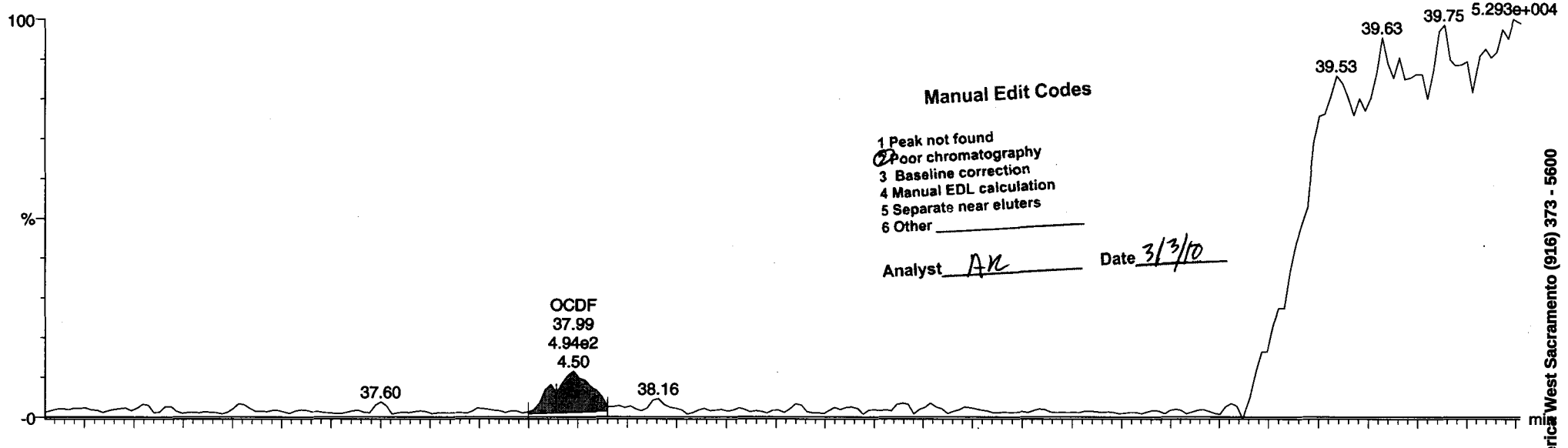
Dataset: X:\HighRes_Archive\3D5\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Wednesday, March 03, 2010 10:45:35 Pacific Standard Time
Printed: Wednesday, March 03, 2010 10:47:07 Pacific Standard Time

Sample Name: 01MR10A3D5_24

01MR10A3D5_24 Smooth(SG,1x2)
G0B250507-1 LV3T7-1-AA

F5:Voltage SIR,EI+
441.7428
5.293e+004



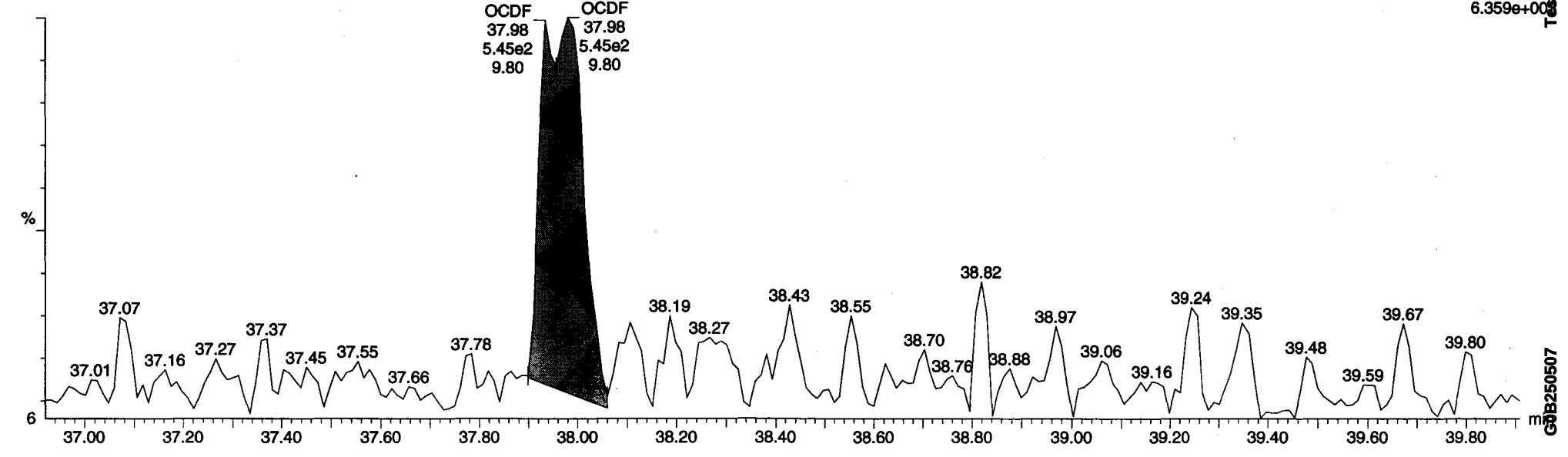
Manual Edit Codes

1 Peak not found
2 Poor chromatography
3 Baseline correction
4 Manual EDL calculation
5 Separate near eluters
6 Other _____

Analyst AR Date 3/3/10

01MR10A3D5_24 Smooth(SG,1x2)
G0B250507-1 LV3T7-1-AA

F5:Voltage SIR,EI+
443.7399
6.359e+003



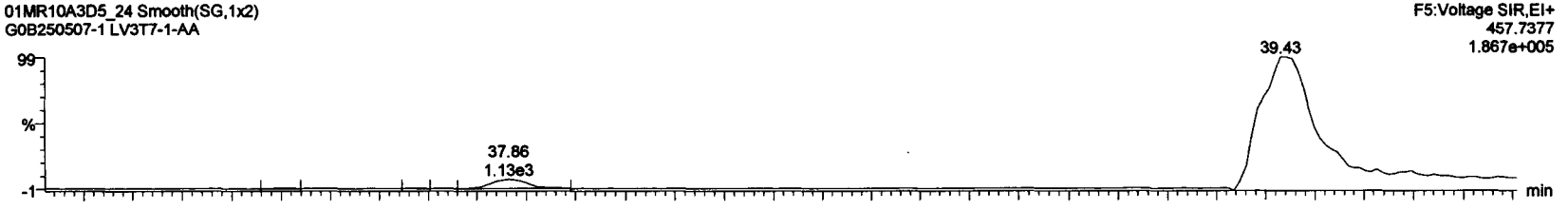
Quantify Sample Report **MassLynx 4.1**

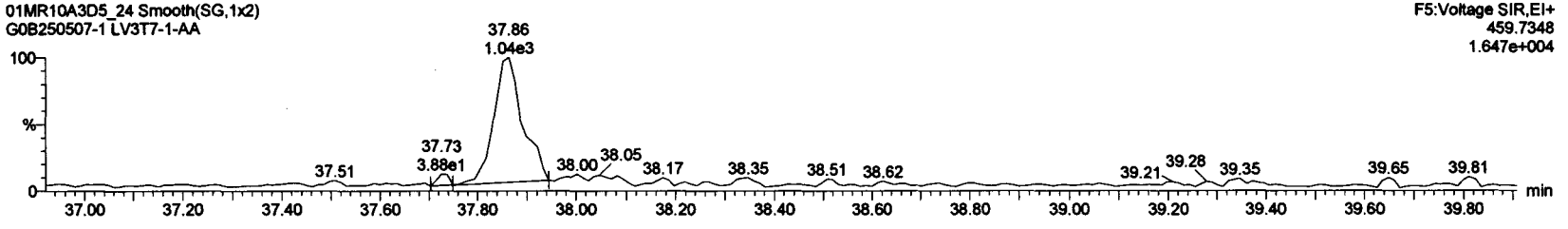
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

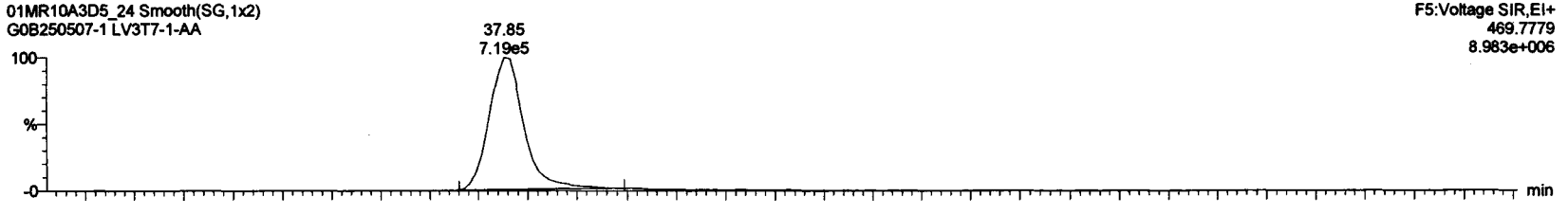
Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

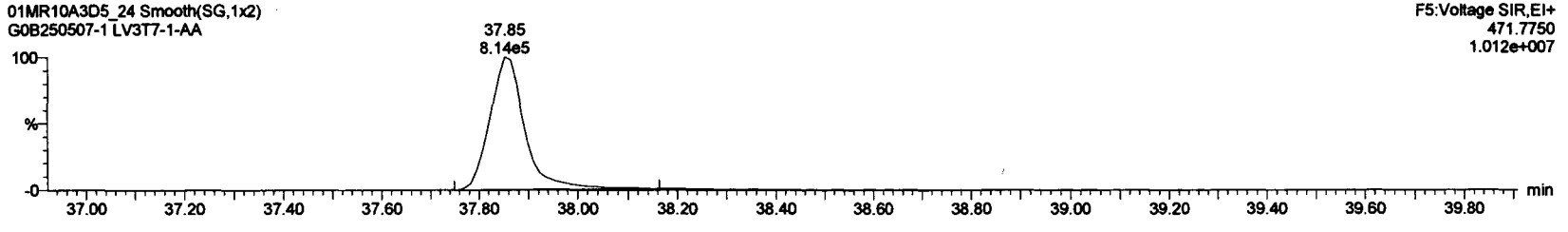
OCDD





13C-OCDD





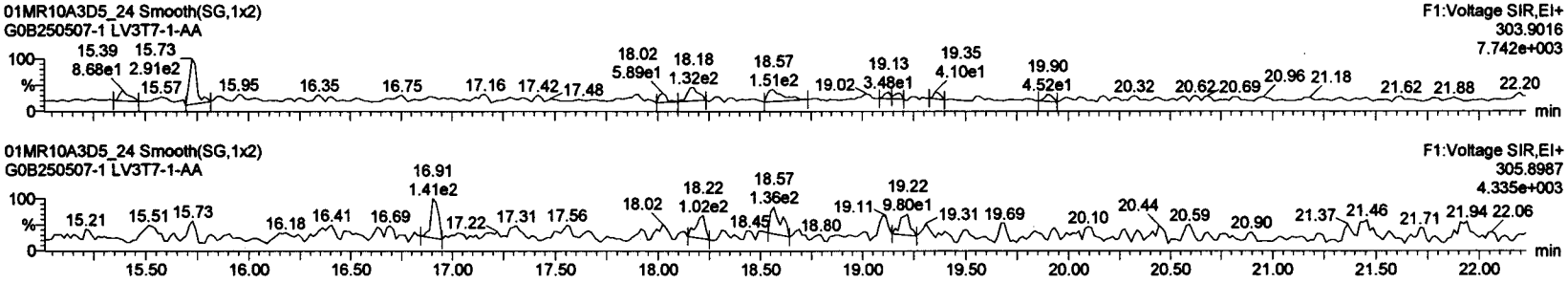
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

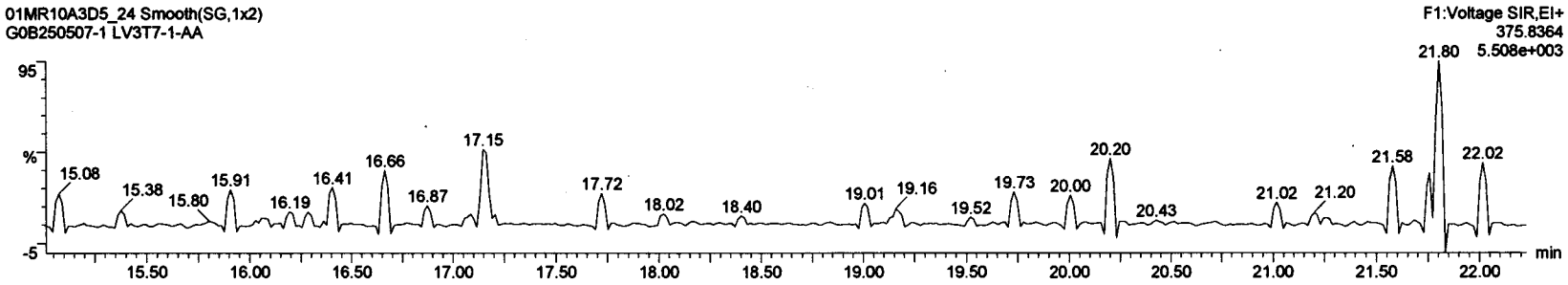
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

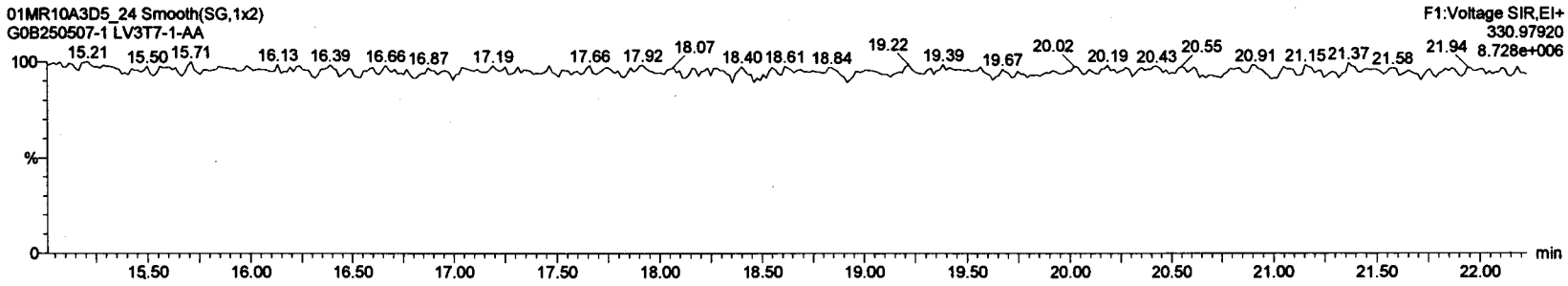
TCDFs



TCDF PCDPE



Function 1 PFK



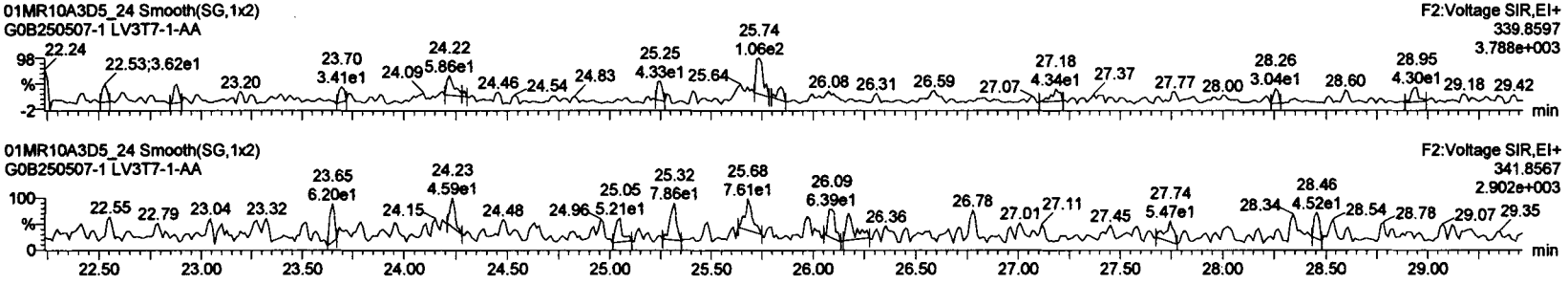
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

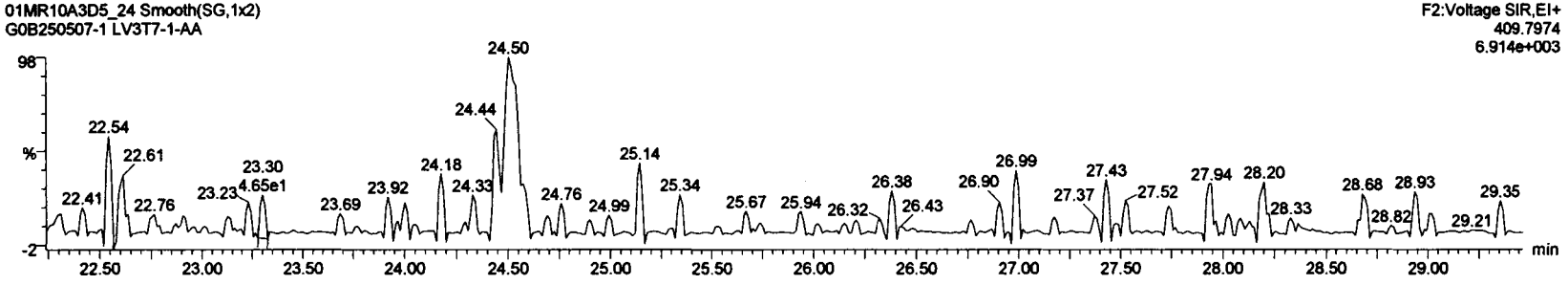
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

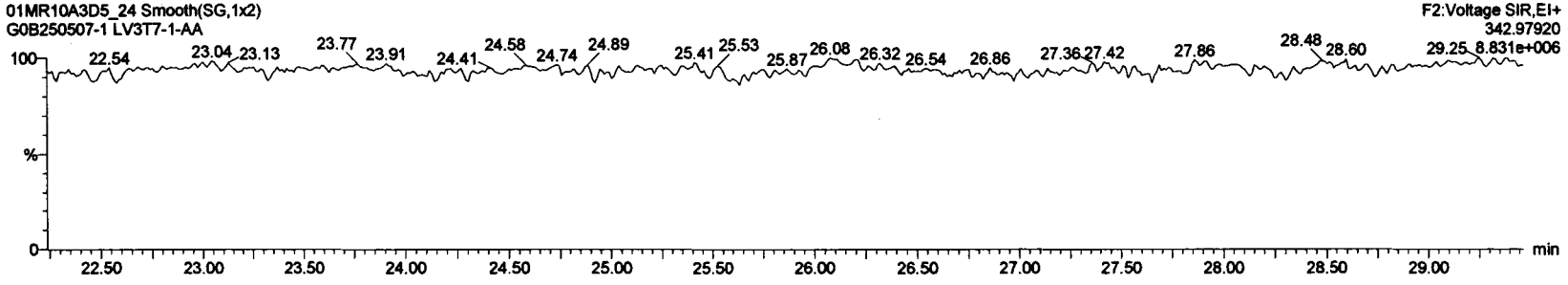
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



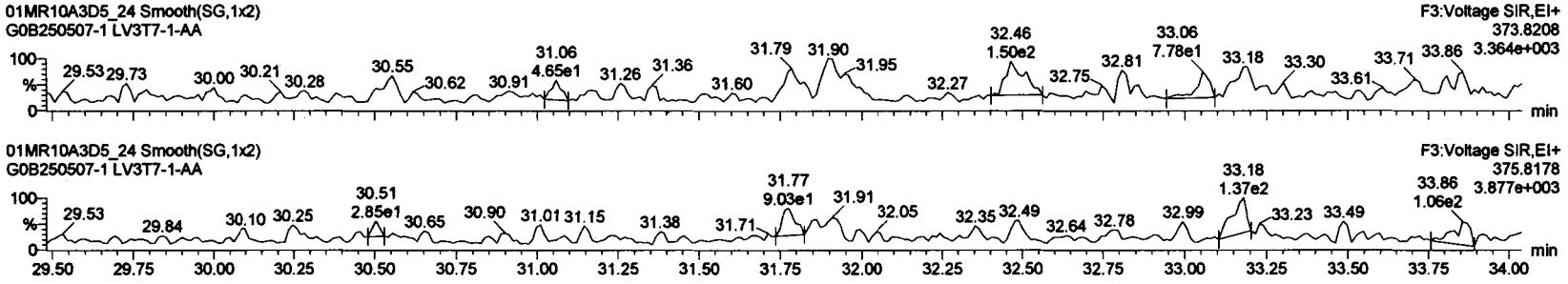
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

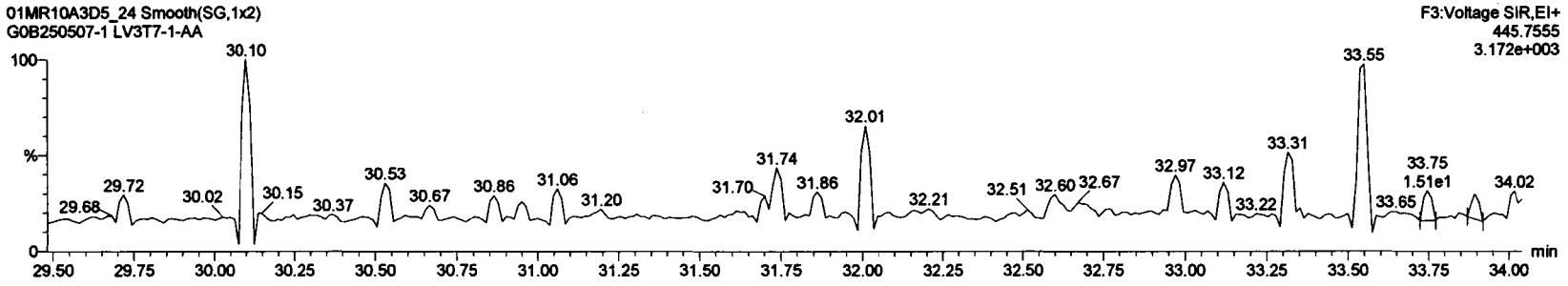
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

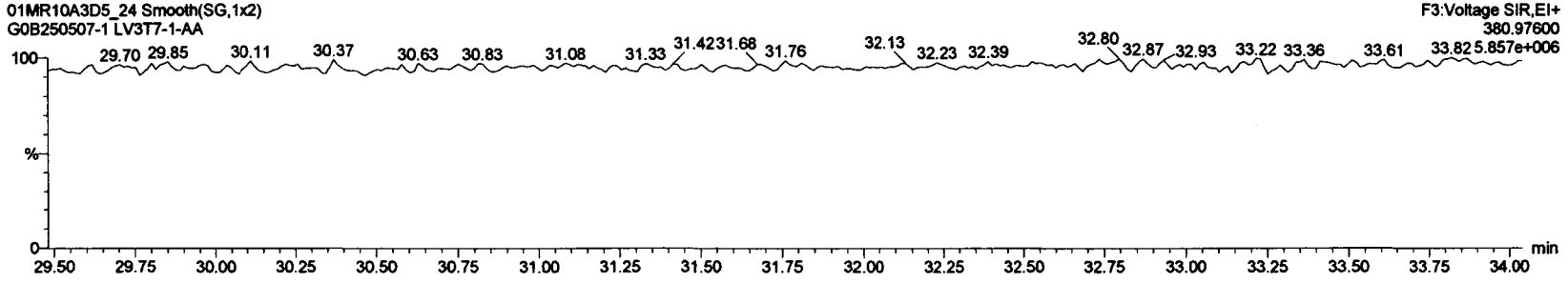
HxCDFs



HxCDF PCDPE



Function 3 PFK



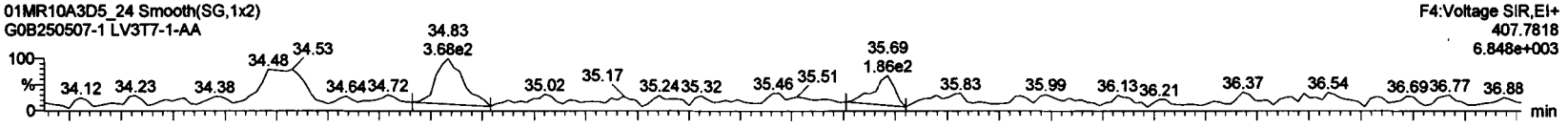
Quantify Sample Report **MassLynx 4.1**

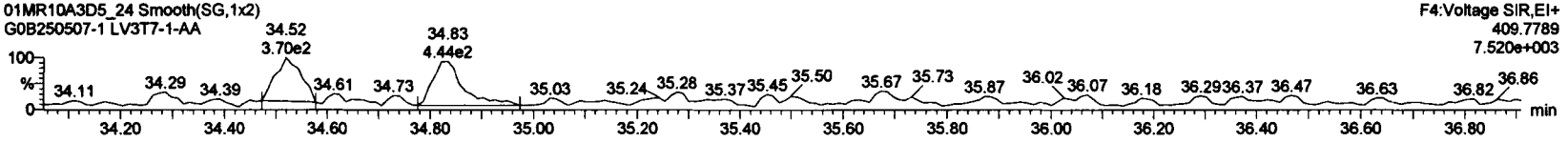
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

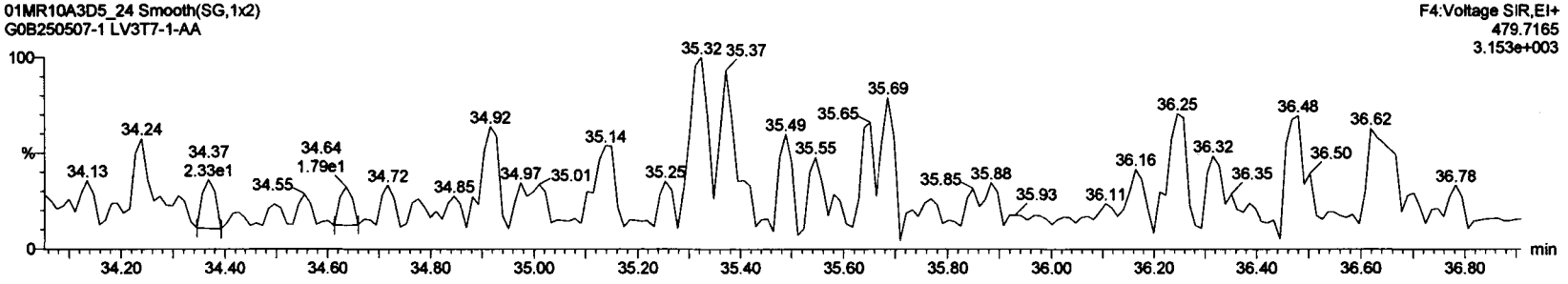
Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

HpCDFs

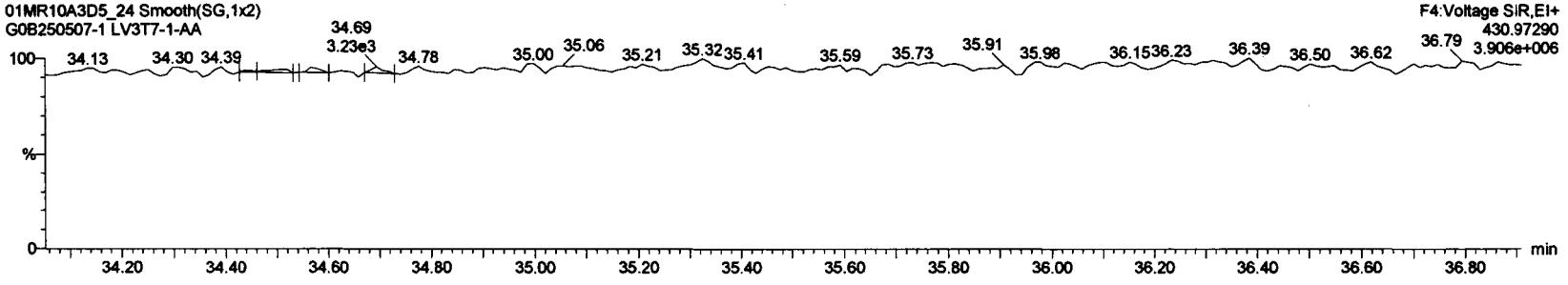




HpCDF PCDPE



Function 4 PFK



Quantify Sample Report **MassLynx 4.1**

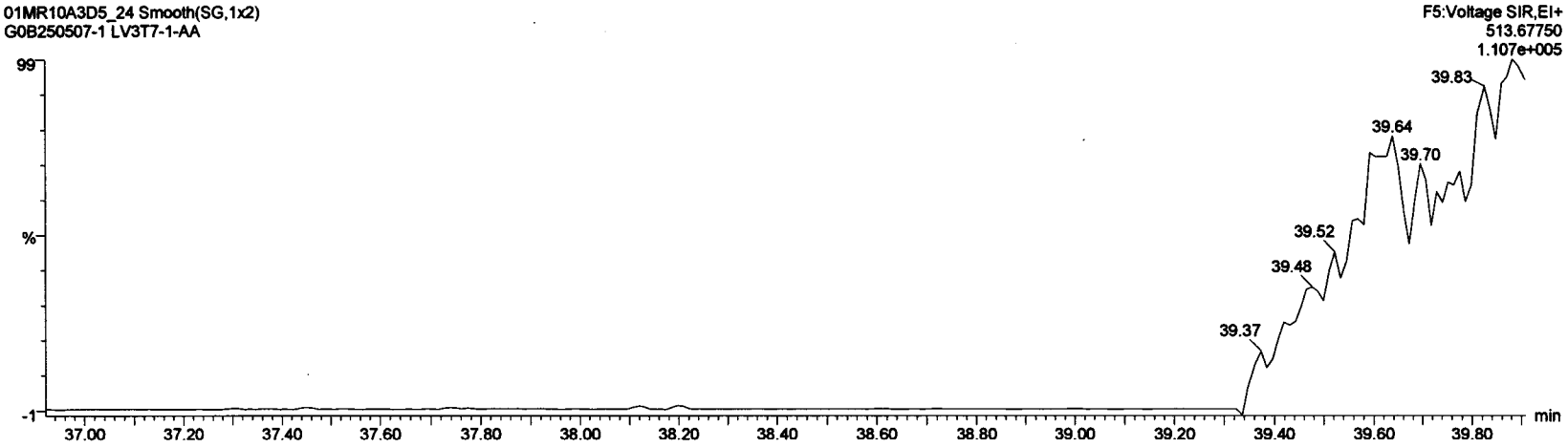
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_24, Date: 02-Mar-2010, Time: 12:19:05, ID: LV3T7-1-AA, Description: G0B250507-1

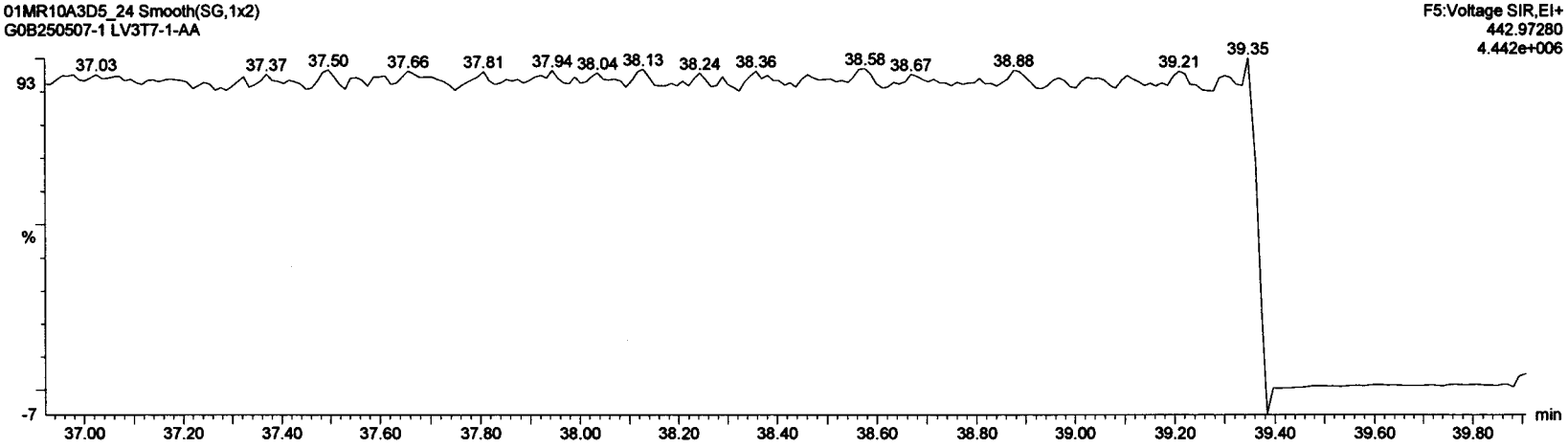
OCDF PCDPE

01MR10A3D5_24 Smooth(SG,1x2)
G0B250507-1 LV3T7-1-AA



Function 5 PFK

01MR10A3D5_24 Smooth(SG,1x2)
G0B250507-1 LV3T7-1-AA



TestAmerica THE LEADER IN ENVIRONMENTAL TESTING	Test America – West Sacramento Daily Calibration Checklist Dioxin Methods

Method ID 8290A **Associated ICAL** ICA030120103D58290

Column ID DB5 **Instrument ID** 3D5

STD ID ST0301H, ST0301I **STD Solution** 10DXN049

Analyzed by JRB **Date Analyzed** 03/02/10, 03/02/10

Std. Pkg. By JRB **Date Std. Pkg. Assembled** 03/02/10

Std. Pkg. Reviewed By SMA **Date Std. Pkg. Reviewed** 03/02/10

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?**	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for **all** 1613B samples)	NA	NA

COMMENTS:

* **Method 8290/TO9/M0023A: (beginning)** ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.
Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.
Method 23: See Method 23 Daily Standard Criteria, Table 5.
Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria,

** **Method 23/0023A CPSM Criteria**: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet
Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 14:11:18 Pacific Standard Time
Printed: Tuesday, March 02, 2010 14:13:22 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 02 Mar 2010 14:08:15
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

#	Name	Response	RT	Pred RT	RRT M	RRF	%Dev	%Dev	%Rec	Ratio	Flag
1	13C-1,2,3,4-TCDD	2167643	19.14	19.14	1.00000	1.00000	100.00	0.0	100.0	0.771	NO
2											
3	13C-2,3,7,8-TCDF	3286110	18.57	18.55	1.40173	1.51598	108.15	8.2	108.2	0.789	NO
4	2,3,7,8-TCDF	315167	18.58	18.58	0.92135	0.95909	10.41	4.1	104.1	0.757	NO
5	Total TCDFs			21.44	0.92135		10.41				
6											
7	13C-2,3,7,8-TCDD	2090943	19.35	19.35	0.94961	0.96462	101.58	1.6	101.6	0.781	NO
8	2,3,7,8-TCDD	218737	19.37	19.37	1.03870	1.04611	10.07	0.7	100.7	0.793	NO
9	Total TCDDs			19.55	1.03870		10.07				
10											
11	37CL-2,3,7,8-TCDD	243179	19.37	19.37	1.14465	1.12186	9.80	-2.0	98.0		
12											
13	13C-1,2,3,7,8-PeCDF	2404353	24.18	24.14	1.11677	1.10920	99.32	-0.7	99.3	1.609	NO
14	1,2,3,7,8-PeCDF	1247088	24.20	24.21	0.98929	1.03736	52.43	4.9	104.9	1.562	NO
15	2,3,4,7,8-PeCDF	1180153	25.68	25.68	0.94936	0.98168	51.70	3.4	103.4	1.556	NO
16	Total F2 PeCDFs			34.47	0.96932		104.13				
17	Total F1 PeCDFs			36.56	0.96932		0.00				
18											
19	13C-1,2,3,7,8-PeCDD	1633614	26.46	26.44	0.77603	0.75364	97.11	-2.9	97.1	1.582	NO
20	1,2,3,7,8-PeCDD	837012	26.50	26.48	0.96958	1.02474	52.84	5.7	105.7	1.592	NO
21	Total PeCDDs			31.10	0.96958		52.84				
22											
23	13C-1,2,3,7,8,9-HxCDD	1718266	32.98	32.97	1.00000	1.00000	100.00	0.0	100.0	1.207	NO
24											
25	13C-1,2,3,4,7,8-HxCDF	1702645	31.75	31.75	0.97183	0.99091	101.96	2.0	102.0	0.518	NO
26	1,2,3,4,7,8-HxCDF	1049500	31.77	31.77	1.20038	1.23279	51.35	2.7	102.7	1.252	NO
27	1,2,3,6,7,8-HxCDF	1164175	31.90	31.87	1.34082	1.36749	50.99	2.0	102.0	1.264	NO
28	2,3,4,6,7,8-HxCDF	1088503	32.48	32.49	1.25668	1.27860	50.87	1.7	101.7	1.248	NO
29	1,2,3,7,8,9-HxCDF	1007169	33.15	33.16	1.07528	1.18306	55.01	10.0	110.0	1.278	NO
30	Total HxCDFs			0.00	1.21829		208.23				
31											
32	13C-1,2,3,6,7,8-HxCDD	1508163	32.70	32.69	0.89936	0.87772	97.59	-2.4	97.6	1.304	NO
33	1,2,3,4,7,8-HxCDD	740366	32.62	32.62	0.90180	0.98181	54.44	8.9	108.9	1.231	NO
34	1,2,3,6,7,8-HxCDD	878997	32.71	32.71	1.09904	1.16565	53.03	6.1	106.1	1.270	NO
35	1,2,3,7,8,9-HxCDD	884252	32.98	33.00	1.06390	1.17262	55.11	10.2	110.2	1.235	NO
36	Total HxCDDs			0.00	1.02158		162.58				
37											
38	13C-1,2,3,4,6,7,8-HpCDF	1457079	34.51	34.52	0.84273	0.84799	100.62	0.6	100.6	0.438	NO
39	1,2,3,4,6,7,8-HpCDF	1030580	34.52	34.52	1.30670	1.41458	54.13	8.3	108.3	1.002	NO
40	1,2,3,4,7,8,9-HpCDF	820454	35.66	35.65	1.06434	1.12616	52.90	5.8	105.8	1.083	NO
41	Total HpCDFs			0.00	1.18552		107.03				
42											
43	13C-1,2,3,4,6,7,8-HpCDD	1350977	35.34	35.34	0.79749	0.78624	98.59	-1.4	98.6	1.101	NO
44	1,2,3,4,6,7,8-HpCDD	709503	35.35	35.35	0.99684	1.05036	52.68	5.4	105.4	1.019	NO
45	Total HpCDDs			0.01	0.99684		52.68				
46											

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 14:11:18 Pacific Standard Time
Printed: Tuesday, March 02, 2010 14:13:22 Pacific Standard Time

Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

#	Name	Response	RT	Prod RT	RRT	Amount	Dev	Area Deviation	Area Ratio	Ratio Dev	Flags
47	13C-OCDD	1943511	37.86	37.87	0.59869	0.56554	188.93	-5.5	94.5	0.858	NO
48	OCDF	1305850	37.98	37.98	1.26224	1.34380	106.46	6.5	106.5	0.922	NO
49	OCDD	1162262	37.88	37.88	1.11522	1.19604	107.25	7.2	107.2	0.904	NO
50											
51											
52	Function 1 PFK			0.00	11489....						
53	Function 2 PFK			0.00	9733.6...						
54	Function 3 PFK			0.00	5225.1...						
55	Function 4 PFK			0.00	4454.8...						
56	Function 5 PFK			0.00	3910.7...						
57	TCDF PCDPE			0.00	45.934...						
58	F1 PeCDF PCDPE			0.00	76.179...						
59	F2 PeCDF PCDPE			0.00	92.309...						
60	HXCDF PCDPE			0.00	77.611...						
61	HPCDF PCDPE			0.00	88.953...						
62	OCDF PCDPE			0.00	102.26...						

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 14:11:18 Pacific Standard Time
Printed: Tuesday, March 02, 2010 14:13:22 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

	Name	Peak Area	RT	Prod RT	RRT/IS	RRF/IS	Conc	%Dev	%Recov	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	2484885	19.14	19.14	1.00000	1.00000	100.00	0.0	100.0	0.780	NO
2											
3	13C-2,3,7,8-TCDF	3777506	18.57	18.55	1.40173	1.52019	108.45	8.5	108.5	0.797	NO
4	2,3,7,8-TCDF	369683	18.58	18.58	0.92135	0.97864	10.62	6.2	106.2	0.786	NO
5	Total TCDFs			21.44	0.92135		10.62				
6											
7	13C-2,3,7,8-TCDD	2458307	19.34	19.35	0.94961	0.98930	104.18	4.2	104.2	0.754	NO
8	2,3,7,8-TCDD	254223	19.37	19.37	1.03870	1.03414	9.96	-0.4	99.6	0.796	NO
9	Total TCDDs			19.55	1.03870		9.96				
10											
11	37CL-2,3,7,8-TCDD	282807	19.37	19.37	1.14465	1.13811	9.94	-0.6	99.4		
12											
13	13C-1,2,3,7,8-PeCDF	2759165	24.15	24.14	1.11677	1.11038	99.43	-0.6	99.4	1.589	NO
14	1,2,3,7,8-PeCDF	1431431	24.18	24.19	0.98929	1.03758	52.44	4.9	104.9	1.559	NO
15	2,3,4,7,8-PeCDF	1353398	25.66	25.66	0.94936	0.98102	51.67	3.3	103.3	1.562	NO
16	Total F2 PeCDFs			34.47	0.96932		104.11				
17	Total F1 PeCDFs			36.56	0.96932						
18											
19	13C-1,2,3,7,8-PeCDD	1919652	26.44	26.44	0.77603	0.77253	99.55	-0.5	99.5	1.610	NO
20	1,2,3,7,8-PeCDD	968113	26.47	26.46	0.96958	1.00863	52.01	4.0	104.0	1.593	NO
21	Total PeCDDs			31.10	0.96958		52.01				
22											
23	13C-1,2,3,7,8,9-HxCDD	2025581	32.97	32.97	1.00000	1.00000	100.00	0.0	100.0	1.276	NO
24											
25	13C-1,2,3,4,7,8-HxCDF	1995543	31.75	31.74	0.97183	0.98517	101.37	1.4	101.4	0.510	NO
26	1,2,3,4,7,8-HxCDF	1239283	31.76	31.77	1.20038	1.24205	51.74	3.5	103.5	1.243	NO
27	1,2,3,6,7,8-HxCDF	1368529	31.89	31.87	1.34082	1.37159	51.15	2.3	102.3	1.256	NO
28	2,3,4,6,7,8-HxCDF	1232097	32.48	32.49	1.25668	1.23485	49.13	-1.7	98.3	1.230	NO
29	1,2,3,7,8,9-HxCDF	1177945	33.15	33.16	1.07528	1.18058	54.90	9.8	109.8	1.253	NO
30	Total HxCDFs			0.00	1.21829		206.91				
31											
32	13C-1,2,3,6,7,8-HxCDD	1781534	32.70	32.68	0.89936	0.87952	97.79	-2.2	97.8	1.148	NO
33	1,2,3,4,7,8-HxCDD	874569	32.62	32.62	0.90180	0.98182	54.44	8.9	108.9	1.344	NO
34	1,2,3,6,7,8-HxCDD	975636	32.71	32.71	1.09904	1.09528	49.83	-0.3	99.7	1.137	NO
35	1,2,3,7,8,9-HxCDD	1037763	32.98	33.00	1.06390	1.16502	54.75	9.5	109.5	1.260	NO
36	Total HxCDDs			0.00	1.02158		159.02				
37											
38	13C-1,2,3,4,6,7,8-HpCDF	1725127	34.51	34.51	0.84273	0.85167	101.06	1.1	101.1	0.448	NO
39	1,2,3,4,6,7,8-HpCDF	1190258	34.52	34.52	1.30670	1.37991	52.80	5.6	105.6	1.062	NO
40	1,2,3,4,7,8,9-HpCDF	1009234	35.66	35.65	1.06434	1.17004	54.97	9.9	109.9	1.032	NO
41	Total HpCDFs			0.00	1.18552		107.77				
42											
43	13C-1,2,3,4,6,7,8-HpCDD	1697935	35.34	35.32	0.79749	0.83825	105.11	5.1	105.1	1.093	NO
44	1,2,3,4,6,7,8-HpCDD	864386	35.35	35.35	0.99684	1.01816	51.07	2.1	102.1	1.053	NO
45	Total HpCDDs			0.01	0.99684		51.07				
46											
47	13C-OCDD	2431260	37.86	37.85	0.59869	0.60014	200.48	0.2	100.2	0.906	NO
48	OCDF	1624259	37.98	37.98	1.26224	1.33615	105.86	5.9	105.9	0.891	NO
49	OCDD	1415849	37.88	37.88	1.11522	1.16470	104.44	4.4	104.4	0.894	NO

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 14:11:18 Pacific Standard Time
Printed: Tuesday, March 02, 2010 14:13:22 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

#	Name	RT	Prod. Ion	RRT	RRF	Conc.	%Dev	Area	Resp.	Status	Integration Flag
50											
51											
52	Function 1 PFK		0.00	11489....							
53	Function 2 PFK		0.00	9733.6...							
54	Function 3 PFK		0.00	5225.1...							
55	Function 4 PFK		0.00	4454.8...							
56	Function 5 PFK		0.00	3910.7...							
57	TCDF PCDPE		0.00	45.934...							
58	F1 PeCDF PCDPE		0.00	76.179...							
59	F2 PeCDF PCDPE		0.00	92.309...							
60	HXCDF PCDPE		0.00	77.611...							
61	HPCDF PCDPE		0.00	88.953...							
62	OCDF PCDPE		0.00	102.26...							

Sample List Report **MassLynx 4.1**

Sample List: C:\MassLynx\JAN2010.PRO\SampleDB\01MR10A3D5.SPL
Last Modified: Tuesday, March 02, 2010 13:11:23 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:12:13 Pacific Standard Time Page Position (1, 1)

	File Name	File Text	Sample ID	Meth/Matrix	BOX #	Sample Size	Units
1	01MR10A3D5_01	CS-3 10DXN049	ST0301F	---	---	1.000000	---
2	01MR10A3D5_02	09DXN106,421,10DXN022,085	DOWQC	1613BQC		1.000000	---
3	01MR10A3D5_03	DB5 CPSM 3732-05	CP0301A	---	---	1.000000	---
4	01MR10A3D5_04	Solvent Blank C-14	SB0301	---	---	1.000000	---
5	01MR10A3D5_05	1613LOD-LOD1	2/26/10 LOD_1	1613B	27	1.000000	L
6	01MR10A3D5_06	1613LOD-LOD2	2/26/10 LOD_2	1613B	27	1.000000	L
7	01MR10A3D5_07	1613LOD-LOD3	2/26/10 LOD_3	1613B	27	1.000000	L
8	01MR10A3D5_08	G0B230486-1	LV060-1-AA	8290/Water	27	1.060870	L
9	01MR10A3D5_09	G0B230488-1	LV07E-1-AA	8290/Water	27	1.057910	L
10	01MR10A3D5_10	F0B130437-1 RI	LVNEX-1-AF	8290/Solid	22	10.025000	g
11	01MR10A3D5_11	F0B130437-1S RI	LVNEX-1-ANS	8290/Solid	22	10.075000	g
12	01MR10A3D5_12	F0B130437-1D RI	LVNEX-1-APD	8290/Solid	22	10.045000	g
13	01MR10A3D5_13	F0B130437-2 RI	LVNE3-1-AF	8290/Solid	22	10.055000	g
14	01MR10A3D5_14	Solvent Blank C-14	SB0301A	8290/1613B/S	23	10.000000	g
15	01MR10A3D5_15	Solvent Blank C-14	SB0301B	8290/1613B/S	23	10.000000	g
16	01MR10A3D5_16	G0B130471-1LCS	LVWL9-1-ACC	8290/1613B/S	23	1.030000	g
17	01MR10A3D5_17	Solvent Blank C-14	SB0301C	---	---	1.000000	---
18	01MR10A3D5_18	CS-3 10DXN049	ST0301G	---	---	1.000000	---
19	01MR10A3D5_19	CS-3 10DXN049	ST0301H	---	---	1.000000	---
20	01MR10A3D5_20	DB5 CPSM 3732-05	CP0301B	---	---	1.000000	---
21	01MR10A3D5_21	Solvent Blank C-14	SB0301D	---	---	1.000000	---
22	01MR10A3D5_22	G0B250507-1MB <12 hr	LV4HR-1-AA	8290/Water	27	1.000000	L
23	01MR10A3D5_23	G0B250507-1LCS	LV4HR-1-AA	8290/Water	27	1.000000	L
24	01MR10A3D5_24	G0B250507-1	LV3T7-1-AA	8290/Water	27	0.992900	L
25	01MR10A3D5_25	CS-3 10DXN049	ST0301I	---	---	1.000000	---
26	01MR10A3D5_26	DB5 CPSM 3732-05	CP0301B	---	---	1.000000	---
27	01MR10A3D5_27	Solvent Blank C-14	SB0301E	---	---	1.000000	---
28	01MR10A3D5_28	G0B130471-1MB	LVWL9-1-AAB	8290/1613B/S	23	10.000000	g
29	01MR10A3D5_29	G0B130471-1LCS	LVWL9-1-ACC	8290/1613B/S	23	10.000000	g
30	01MR10A3D5_30	G0B130471-1	LVNRL-1-AC	8290/1613B/S	23	1.030000	g
31	01MR10A3D5_31	G0B250457-1LCS	LV39J-1-AC	8290/Solid	27	10.000000	g
32	01MR10A3D5_32	G0B250457-1MB	LV39J-1-AA	8290/Solid	27	10.000000	g
33	01MR10A3D5_33	G0B250457-1	LV3JT-1-AC	8290/Solid	27	10.000000	g
34	01MR10A3D5_34	G0B250457-1MS	LV3JT-1-AD	8290/Solid	27	10.000000	g
35	01MR10A3D5_35	G0B250457-1SD	LV3JT-1-AE	8290/Solid	27	10.000000	g
36	01MR10A3D5_36	G0B230551-5 10X	LV1KT-1-AC	8290/Solid	25	10.440000	g
37	01MR10A3D5_37	Solvent Blank C-14	SB0301E	---	---	1.000000	---
38	01MR10A3D5_38	CS-3 10DXN049	ST0301I	---	---	1.000000	---

Bottle	FV_uL	Inj Vol	Sam Typ	Analyst	MS File	Inl File	ConA	ConB	ConC	ConD	ConE	ConF
Tray01:1	---	2.000000	Analyte	JRB	Dioxin3D5	dioxin	10	50	100	100	200	10
Tray01:2	20	2.000000	Analyte	JRB	DowDioxin	dioxin	---	---	---	2000	4000	200
Tray01:3	---	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	---	---	---
Tray01:4	---	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	---	---	---
Tray01:5	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:6	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:7	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:8	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:9	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:10	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:11	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:12	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:13	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:14	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:15	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:16	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:4	---	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	---	---	---
Tray01:1	---	2.000000	Analyte	JRB	Dioxin3D5	dioxin	10	50	100	100	200	10
Tray01:1	---	2.000000	Analyte	JRB	Dioxin3D5	dioxin	10	50	100	100	200	10
Tray01:3	---	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	---	---	---
Tray01:4	---	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	---	---	---
Tray01:17	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:18	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:19	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:1	---	2.000000	Analyte	JRB	Dioxin3D5	dioxin	10	50	100	100	200	10
Tray01:3	---	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	---	---	---
Tray01:4	---	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	---	---	---
Tray01:20	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:21	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:22	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:23	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:24	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:25	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:26	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:27	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:28	20	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	800
Tray01:4	---	2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	---	---	---
Tray01:1	---	2.000000	Analyte	JRB	Dioxin3D5	dioxin	10	50	100	100	200	10

ConG

100
2000

2000
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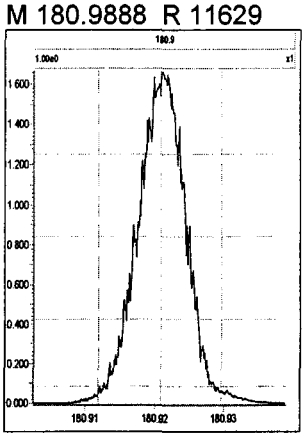
2000

100

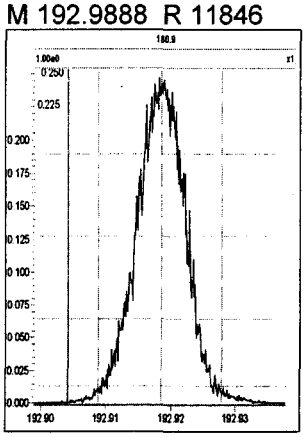
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, March 02, 2010 08:36:52 Pacific Standard Time

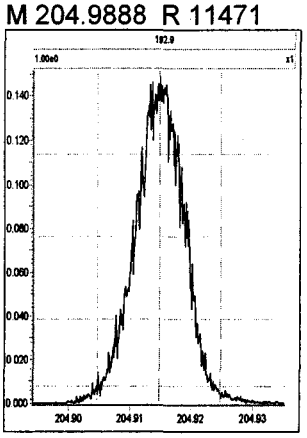
M 180.9888 R 11629



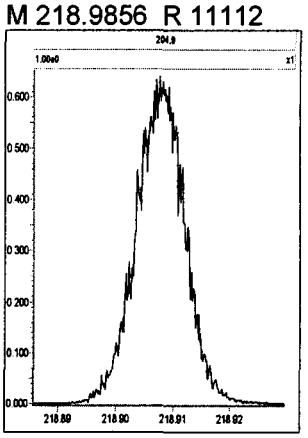
M 192.9888 R 11846



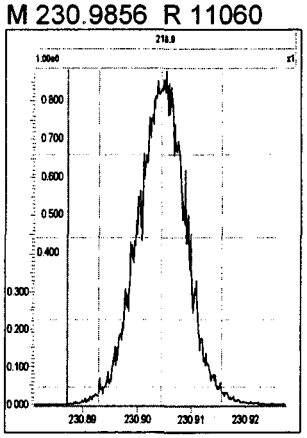
M 204.9888 R 11471



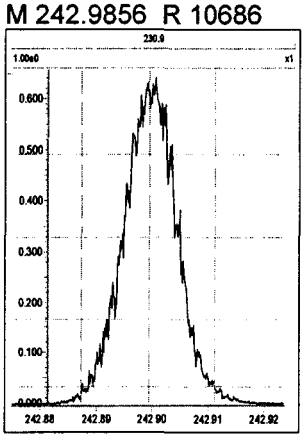
M 218.9856 R 11112



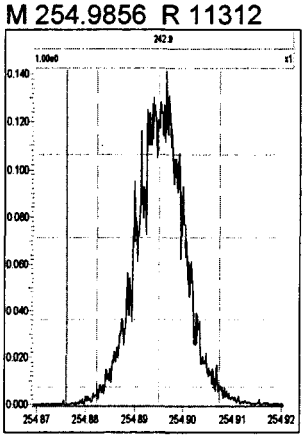
M 230.9856 R 11060



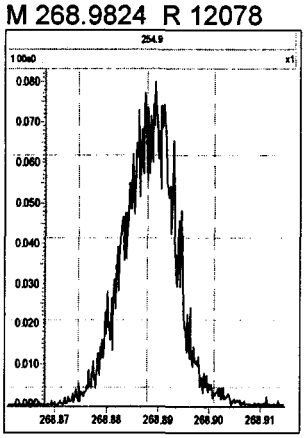
M 242.9856 R 10686



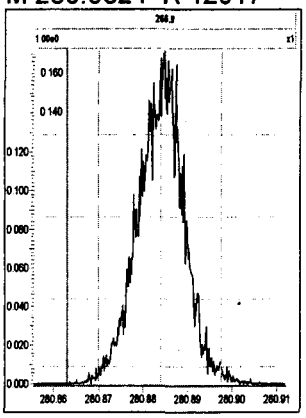
M 254.9856 R 11312



M 268.9824 R 12078



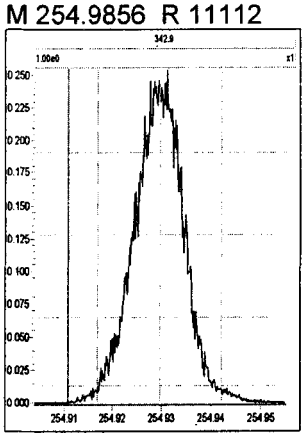
M 280.9824 R 12017



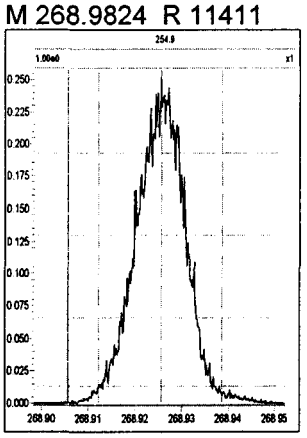
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, March 02, 2010 08:40:21 Pacific Standard Time

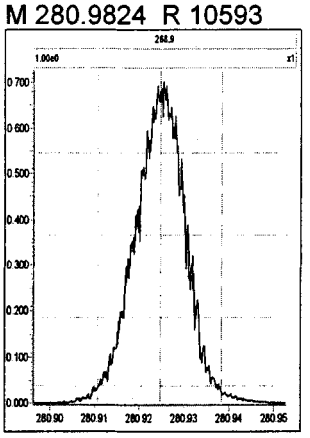
M 254.9856 R 11112



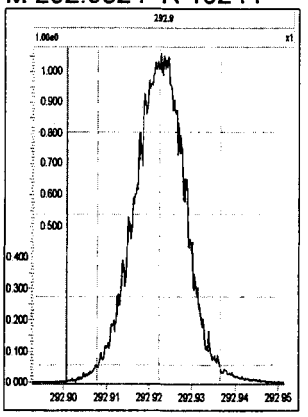
M 268.9824 R 11411



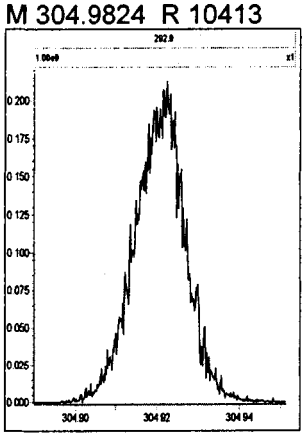
M 280.9824 R 10593



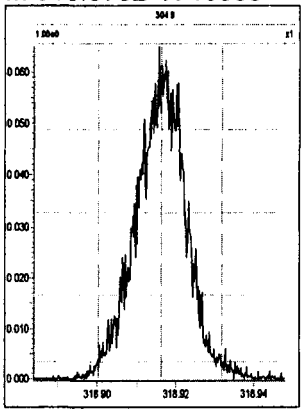
M 292.9824 R 10244



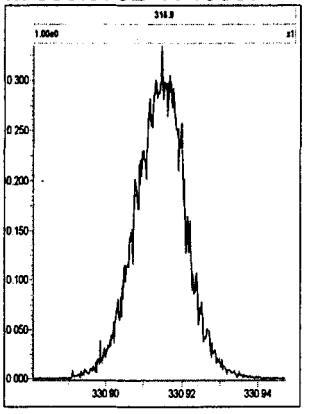
M 304.9824 R 10413



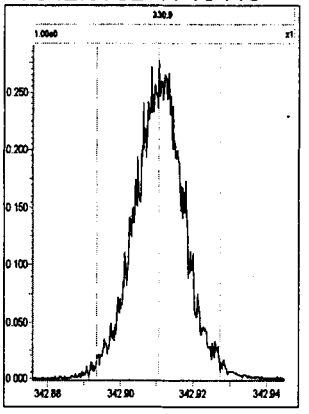
M 318.9792 R 10683



M 330.9792 R 10507



M 342.9792 R 10413

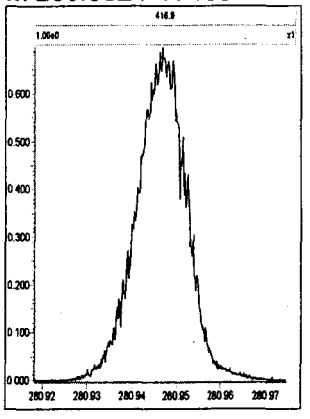


Experiment Calibration Report **MassLynx 4.1** Page 1 of 1

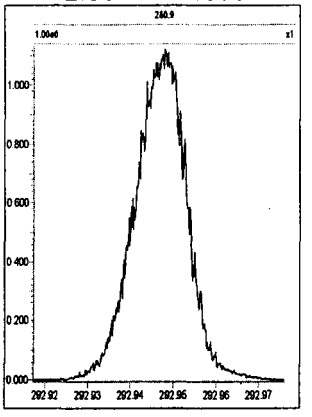
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, March 02, 2010 08:41:47 Pacific Standard Time

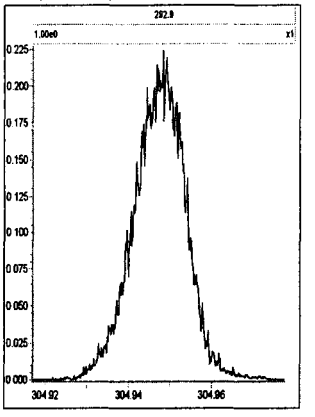
M 280.9824 R 10912



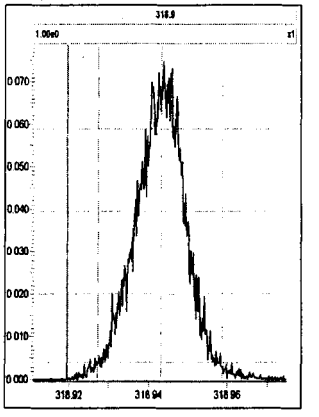
M 292.9824 R 10682



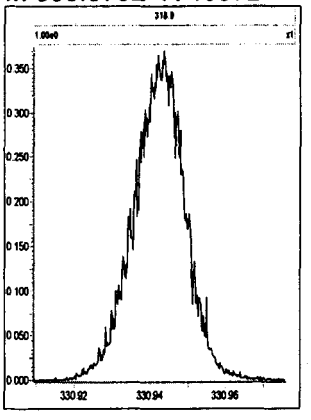
M 304.9824 R 10686



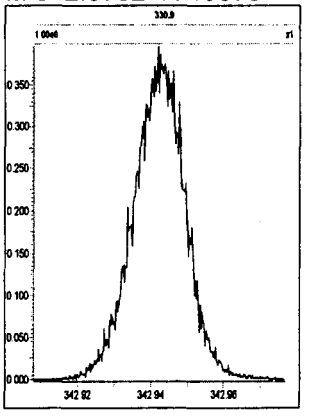
M 318.9792 R 11677



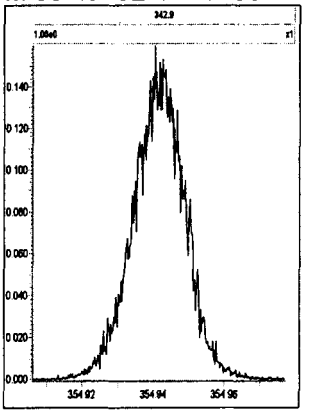
M 330.9792 R 10372



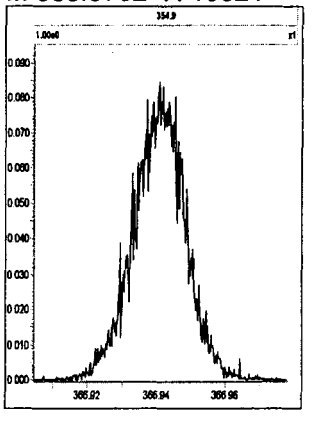
M 342.9792 R 10078



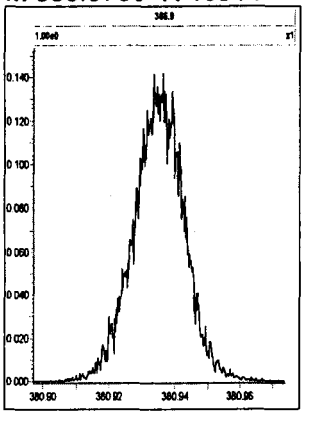
M 354.9792 R 10593



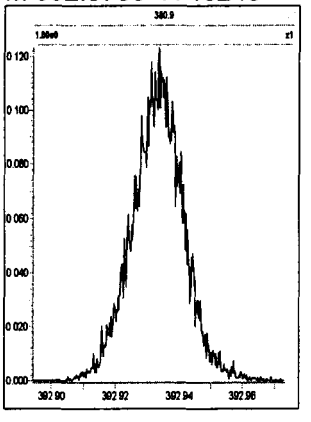
M 366.9792 R 10821



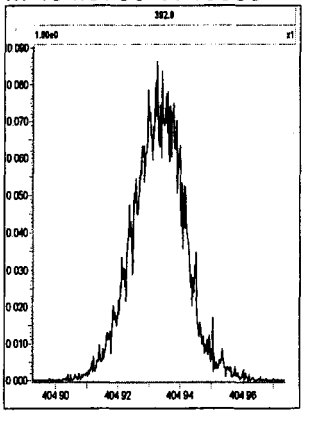
M 380.9760 R 10914



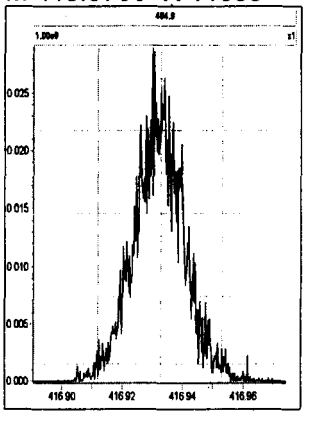
M 392.9760 R 10246



M 404.9760 R 10686



M 416.9760 R 11683



File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

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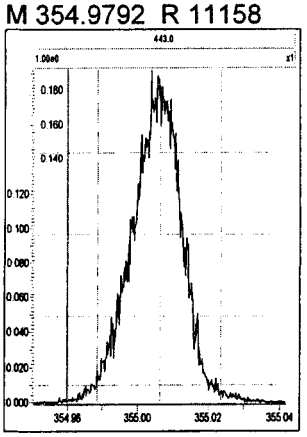
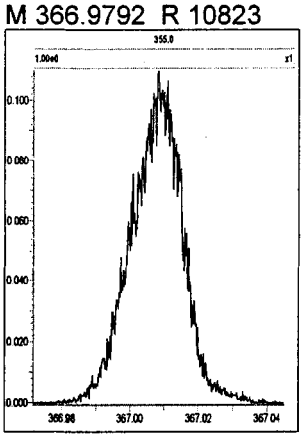
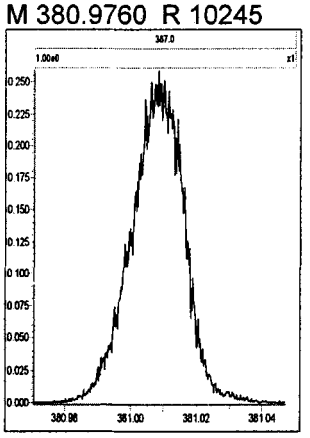
M 354.9792 R 11158



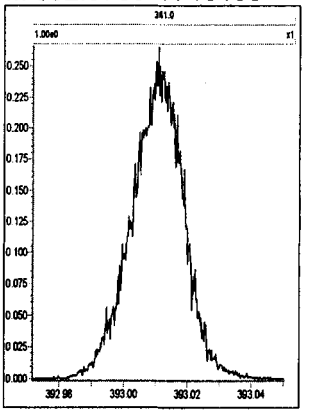
M 366.9792 R 10823



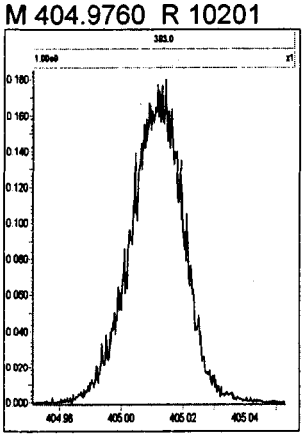
M 380.9760 R 10245



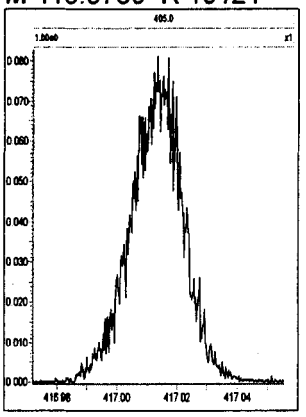
M 392.9760 R 10165



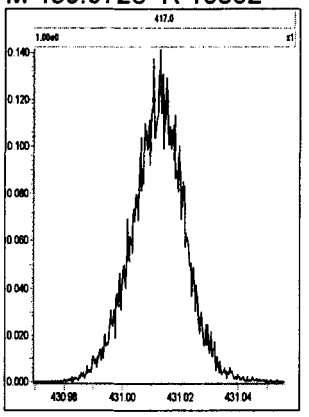
M 404.9760 R 10201



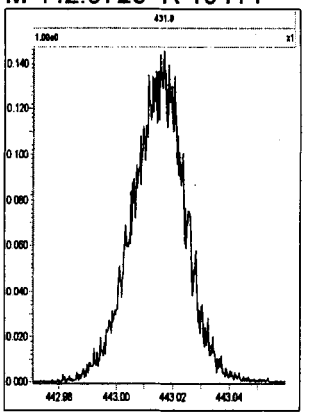
M 416.9760 R 10121



M 430.9728 R 10592



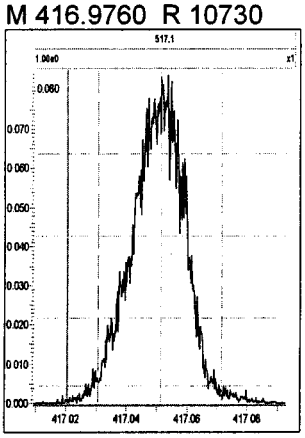
M 442.9728 R 10414



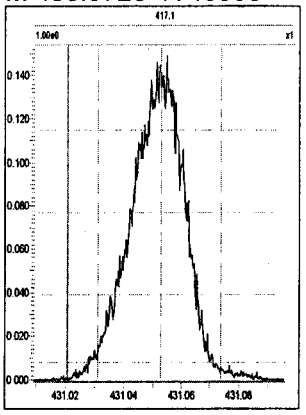
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, March 02, 2010 08:44:23 Pacific Standard Time

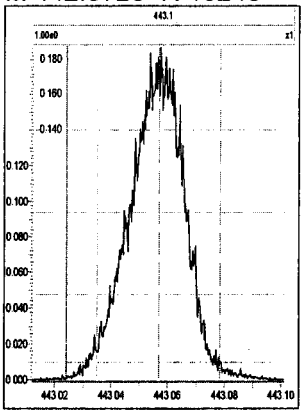
M 416.9760 R 10730



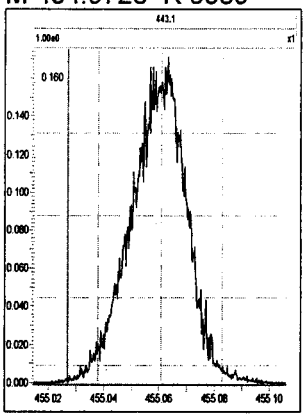
M 430.9728 R 10638



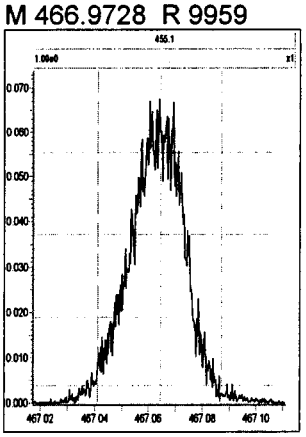
M 442.9728 R 10248



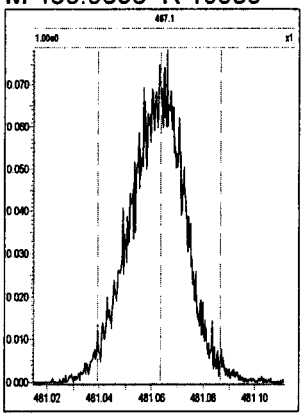
M 454.9728 R 9539



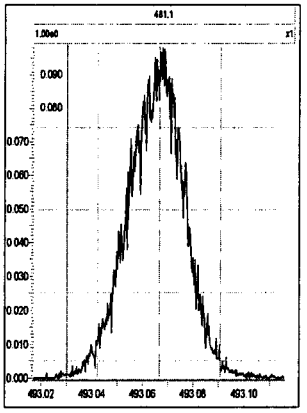
M 466.9728 R 9959



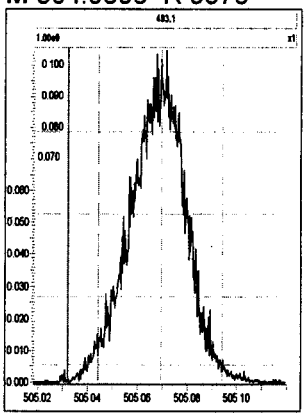
M 480.9696 R 10039



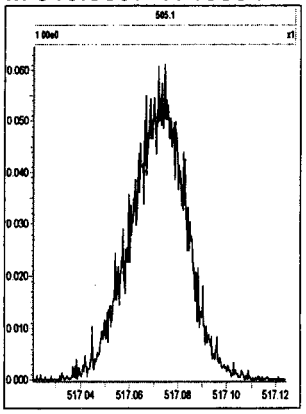
M 492.9696 R 9958



M 504.9696 R 9575



M 516.9697 R 10634



File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

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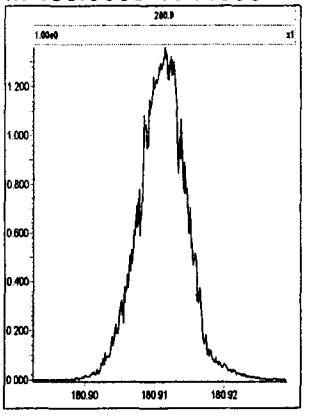
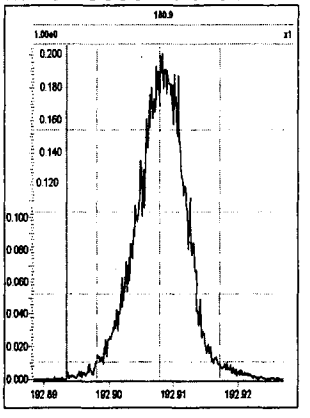
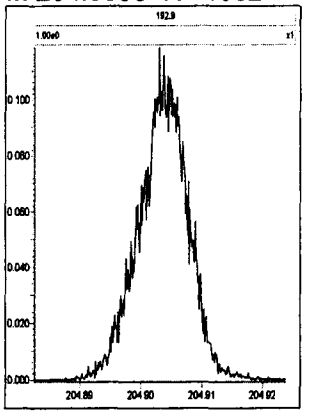
M 180.9888 R 11063



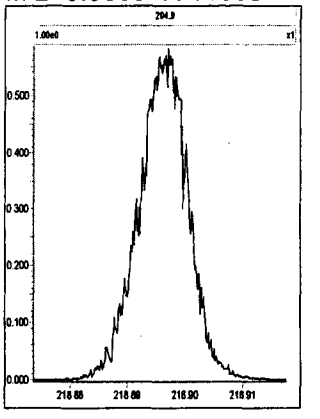
M 192.9888 R 11365



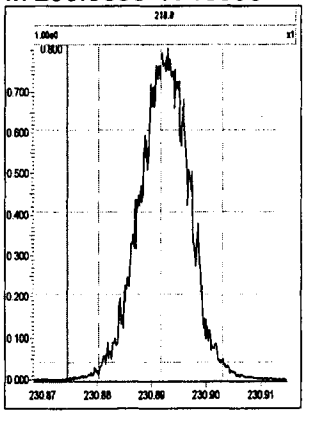
M 204.9888 R 11362



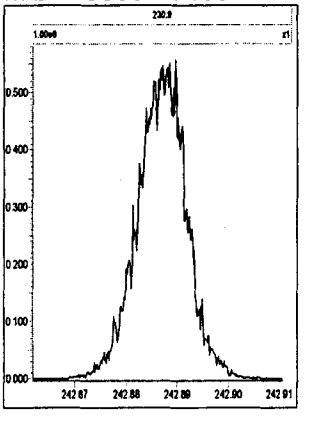
M 218.9856 R 11058



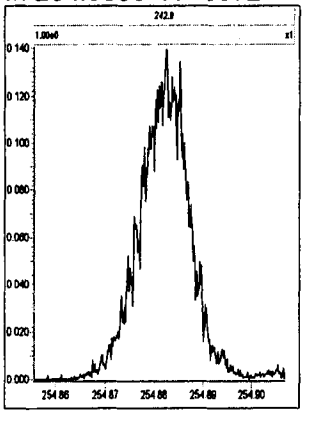
M 230.9856 R 10590



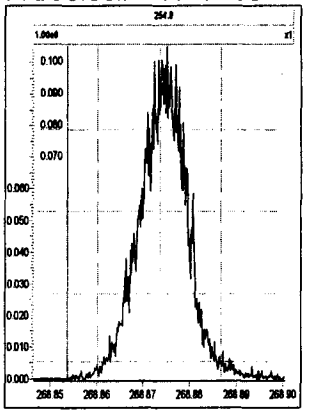
M 242.9856 R 10824



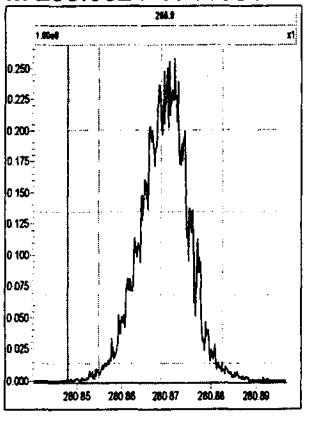
M 254.9856 R 10372



M 268.9824 R 12255



M 280.9824 R 11361



File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

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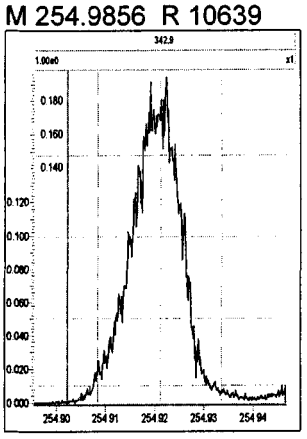
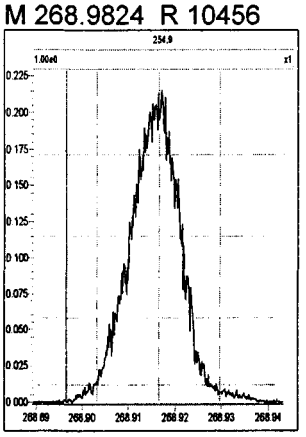
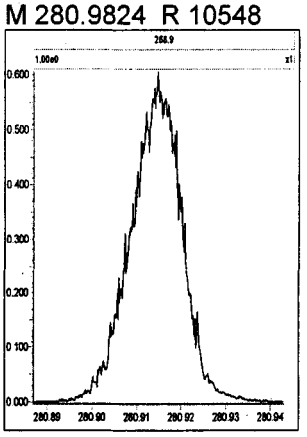
M 254.9856 R 10639



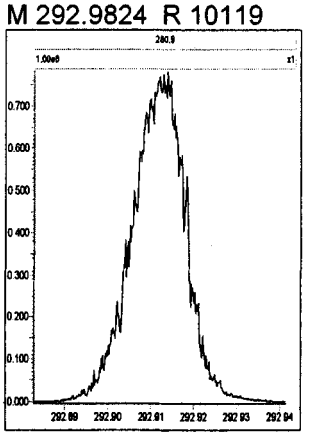
M 268.9824 R 10456



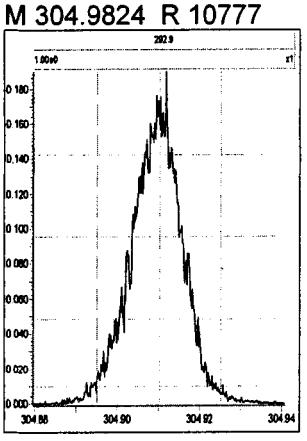
M 280.9824 R 10548



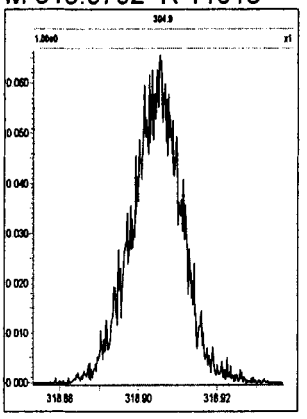
M 292.9824 R 10119



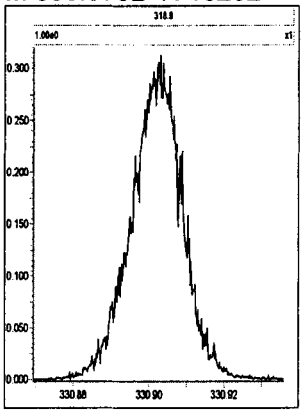
M 304.9824 R 10777



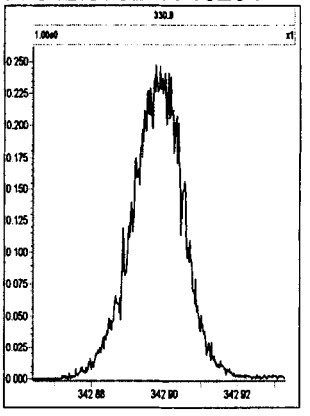
M 318.9792 R 11013



M 330.9792 R 10202



M 342.9792 R 10284



File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

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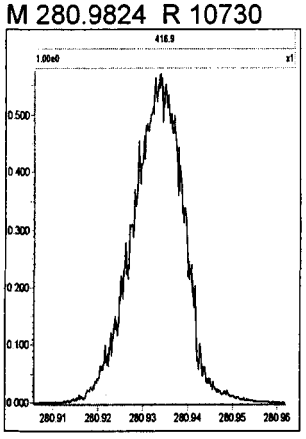
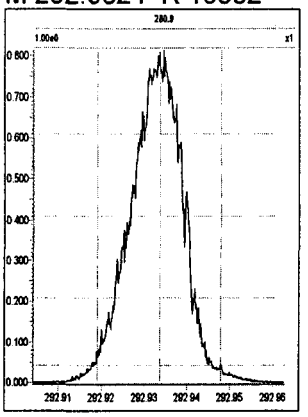
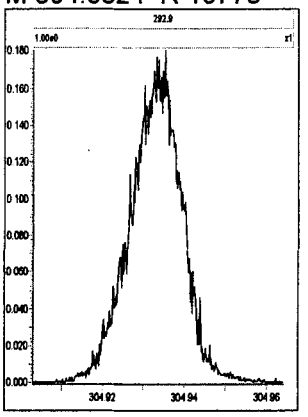
M 280.9824 R 10730



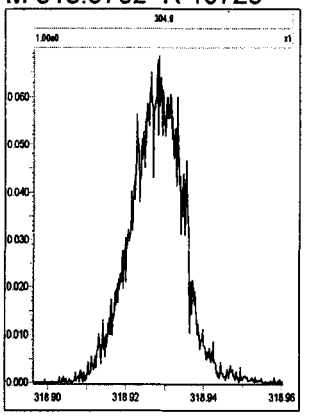
M 292.9824 R 10682



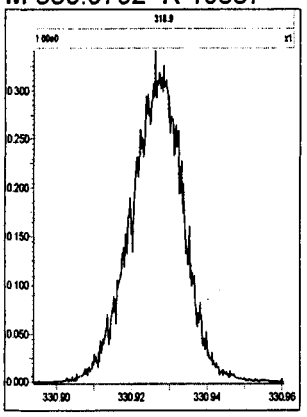
M 304.9824 R 10778



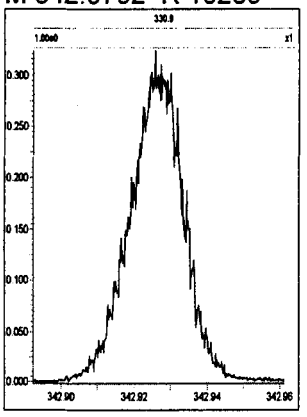
M 318.9792 R 10725



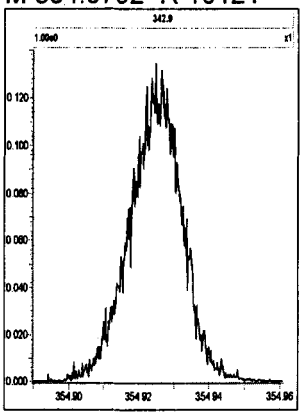
M 330.9792 R 10637



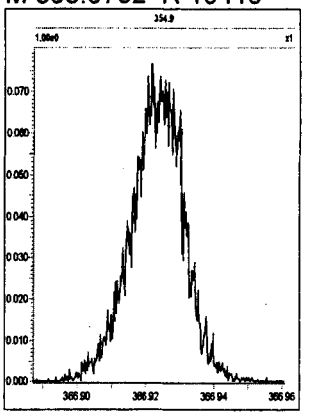
M 342.9792 R 10289



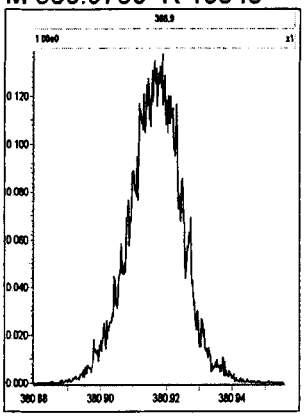
M 354.9792 R 10121



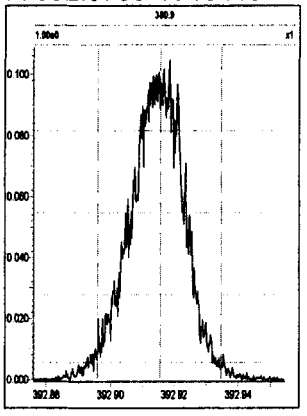
M 366.9792 R 10419



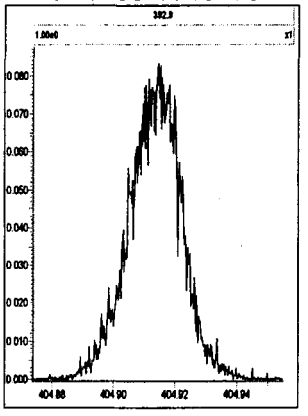
M 380.9760 R 10545



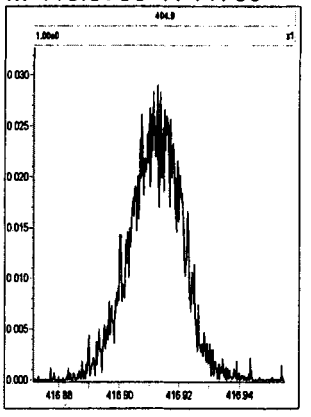
M 392.9760 R 10416



M 404.9760 R 10778



M 416.9760 R 11789



File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

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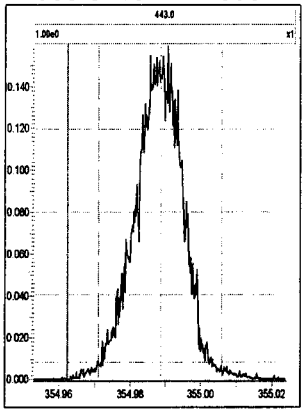
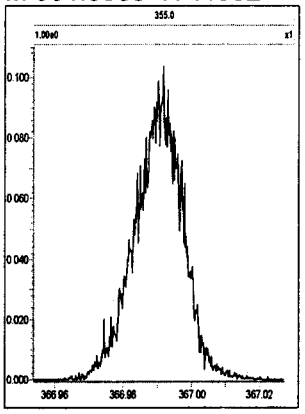
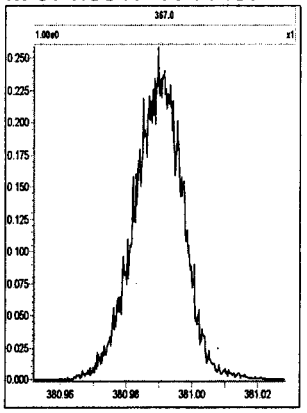
M 359.8415 R 11850



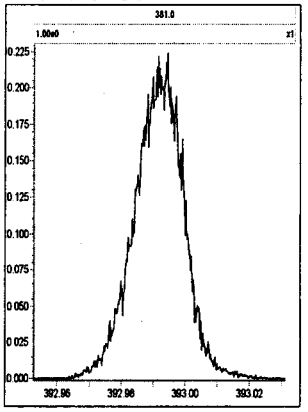
M 361.8385 R 11962



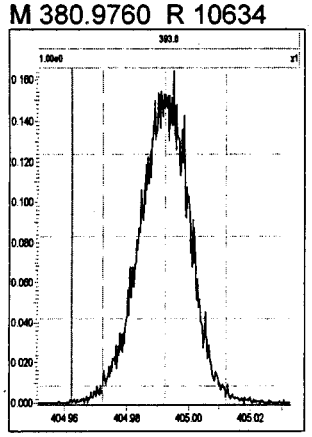
M 371.8817 R 11467



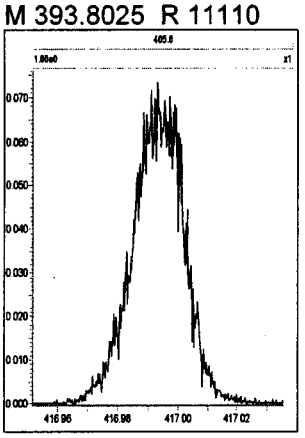
M 373.8788 R 11417



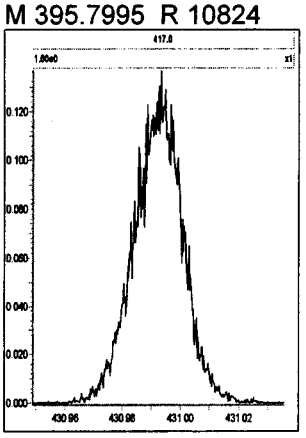
M 380.9760 R 10634



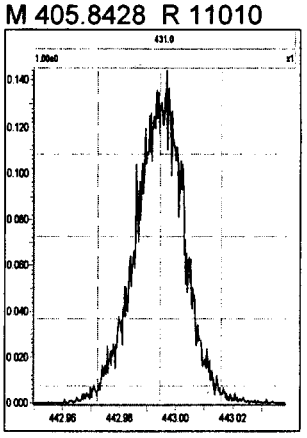
M 393.8025 R 11110



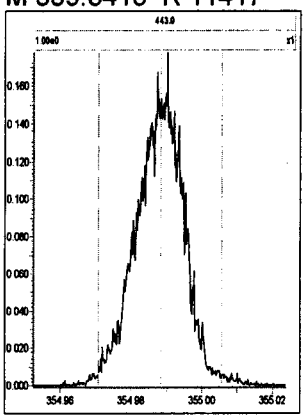
M 395.7995 R 10824



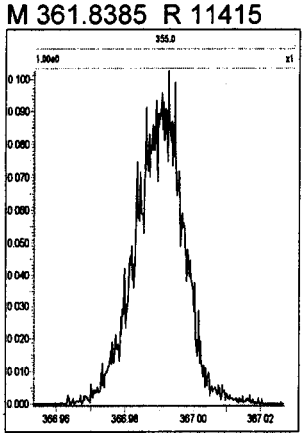
M 405.8428 R 11010



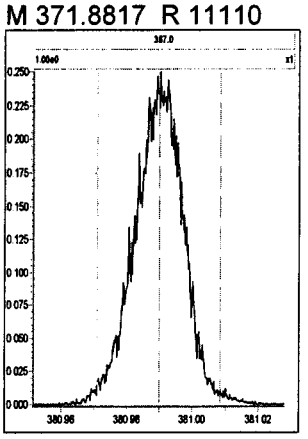
M 359.8415 R 11417



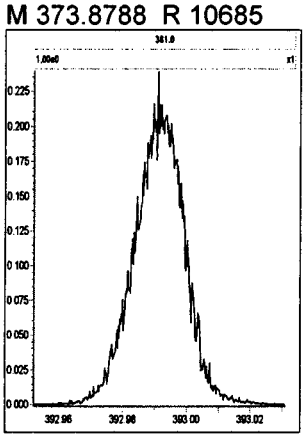
M 361.8385 R 11415



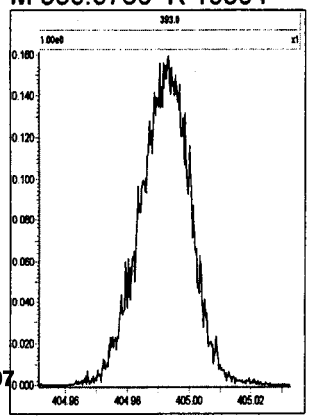
M 371.8817 R 11110



M 373.8788 R 10685



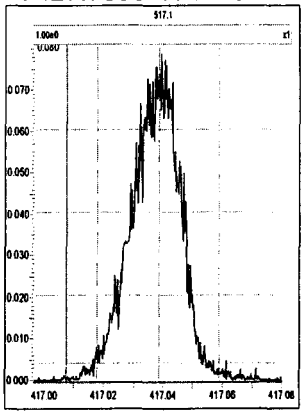
M 380.9760 R 10504



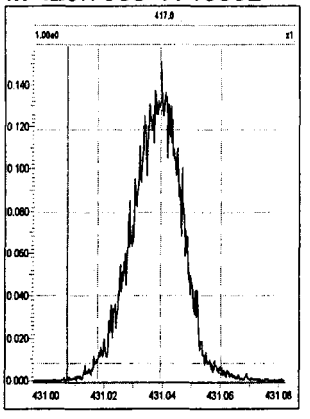
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, March 02, 2010 13:54:42 Pacific Standard Time

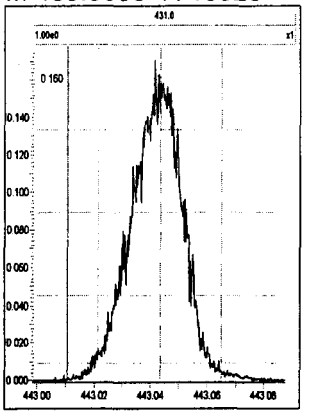
M 427.7635 R 11792



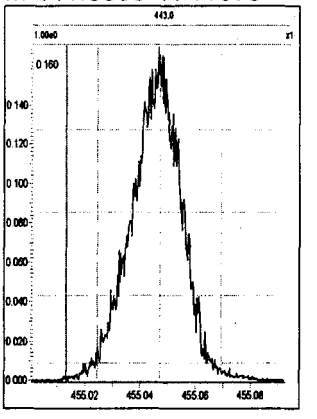
M 429.7606 R 10592



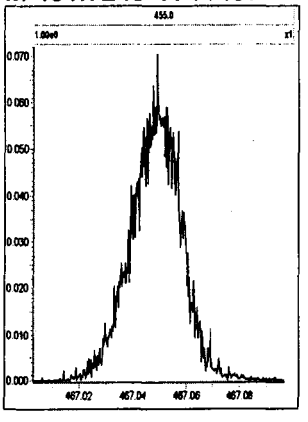
M 439.8038 R 10328



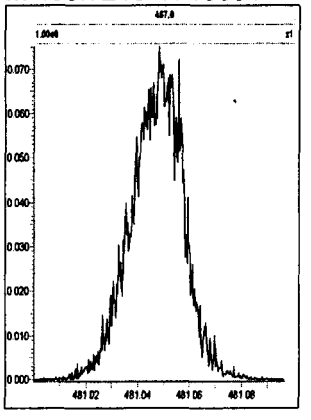
M 441.8008 R 11679



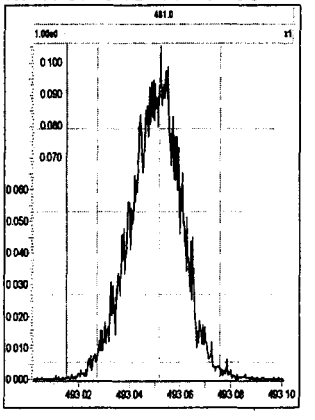
M 461.7245 R 11467



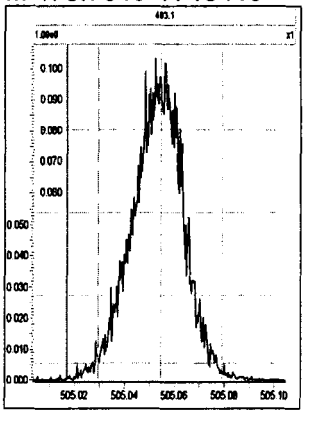
M 463.7216 R 10591



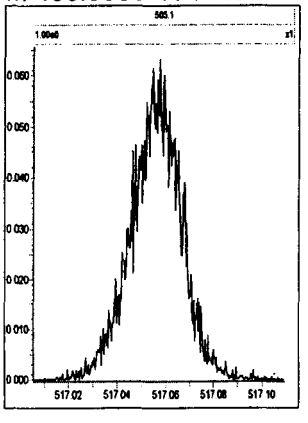
M 473.7648 R 10730



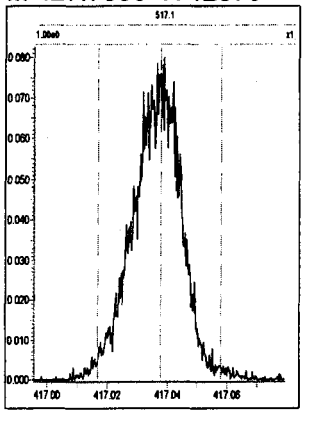
M 475.7619 R 10416



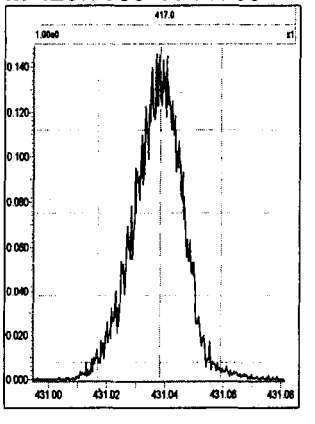
M 480.9696 R 11469



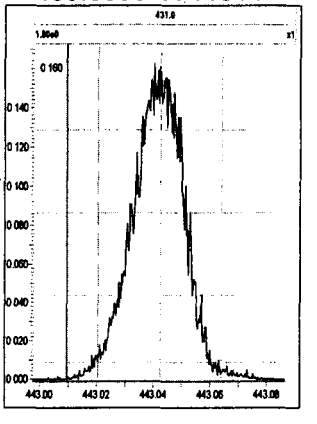
M 427.7635 R 12073



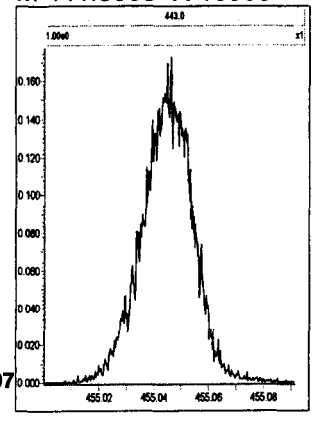
M 429.7606 R 11736

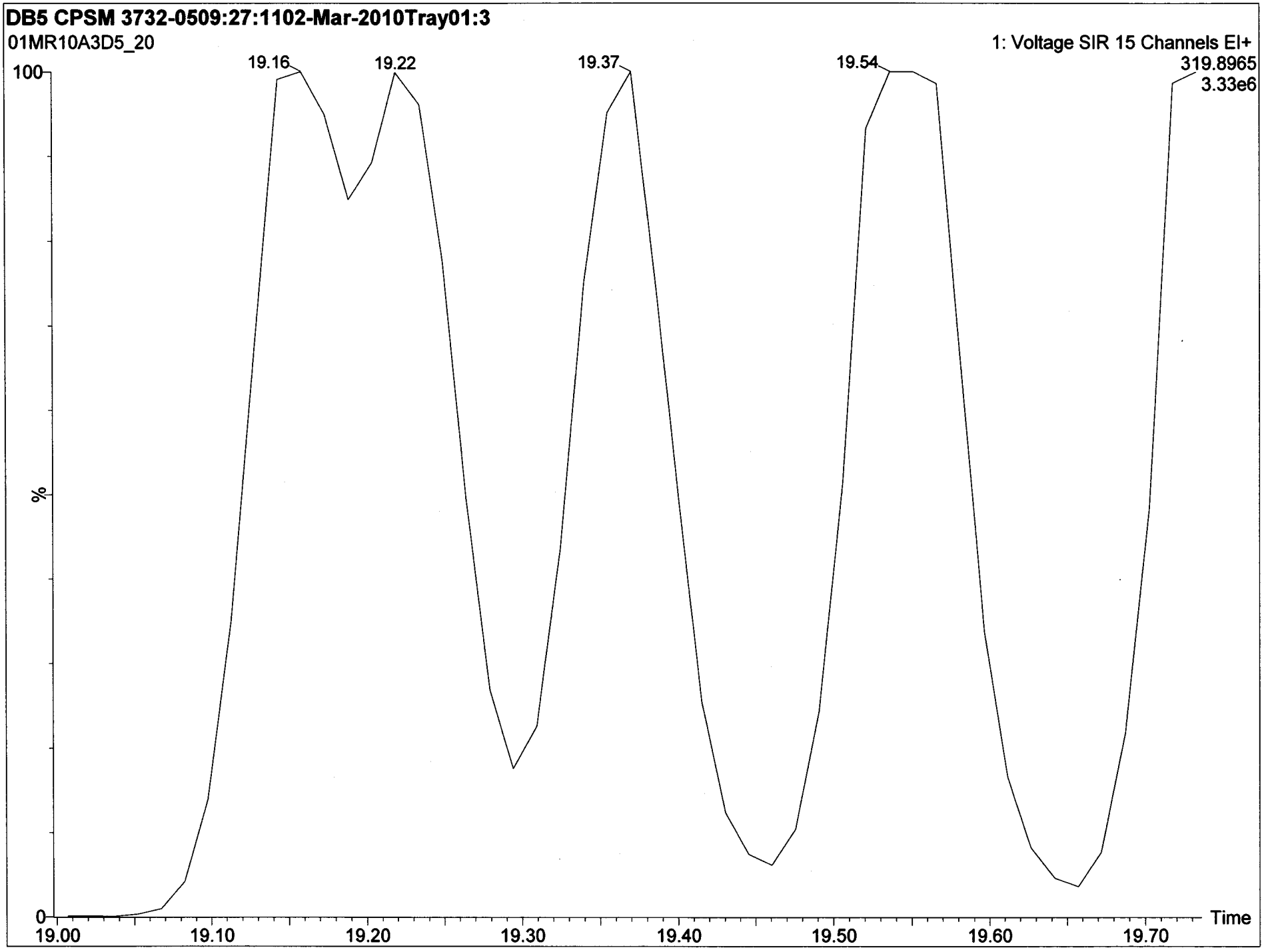


M 439.8038 R 11314



M 441.8008 R 10638




DB5 CPSM 3732-0509:27:1102-Mar-2010Tray01:3
01MR10A3D5_20
1: Voltage SIR 15 Channels EI+
319.8965
3.33e6
19.16
19.22
19.37
19.54
100
%
0
19.00
19.10
19.20
19.30
19.40
19.50
19.60
19.70
Time

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:32 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 01 Mar 2010 16:44:35
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

#	Name	RRF Mean	RRF SD	RRF %RSD
1	13C-1,2,3,4-TCDD	1.00000	0.00000	0.00000
2				
3	13C-2,3,7,8-TCDF	1.40173	0.06488	4.62848
4	2,3,7,8-TCDF	0.92135	0.05628	6.10850
5	Total TCDFs	0.92135	0.05628	6.10849
6				
7	13C-2,3,7,8-TCDD	0.94961	0.05927	6.24113
8	2,3,7,8-TCDD	1.03870	0.05087	4.89709
9	Total TCDDs	1.03870	0.05087	4.89709
10				
11	37CL-2,3,7,8-TCDD	1.14465	0.06138	5.36206
12				
13	13C-1,2,3,7,8-PeCDF	1.11677	0.10746	9.62233
14	1,2,3,7,8-PeCDF	0.98929	0.04661	4.71185
15	2,3,4,7,8-PeCDF	0.94936	0.04998	5.26421
16	Total F2 PeCDFs	0.96932	0.04812	4.96464
17	Total F1 PeCDFs	0.96932	0.04812	4.96464
18				
19	13C-1,2,3,7,8-PeCDD	0.77603	0.07472	9.62895
20	1,2,3,7,8-PeCDD	0.96958	0.03870	3.99107
21	Total PeCDDs	0.96958	0.03870	3.99107
22				
23	13C-1,2,3,7,8,9-HxCDD	1.00000	0.00000	0.00000
24				
25	13C-1,2,3,4,7,8-HxCDF	0.97183	0.07570	7.78896
26	1,2,3,4,7,8-HxCDF	1.20038	0.06355	5.29397
27	1,2,3,6,7,8-HxCDF	1.34082	0.07485	5.58214
28	2,3,4,6,7,8-HxCDF	1.25668	0.04314	3.43324
29	1,2,3,7,8,9-HxCDF	1.07528	0.10741	9.98906
30	Total HxCDFs	1.21829	0.06579	5.40021
31				
32	13C-1,2,3,6,7,8-HxCDD	0.89936	0.06718	7.47010
33	1,2,3,4,7,8-HxCDD	0.90180	0.06757	7.49316
34	1,2,3,6,7,8-HxCDD	1.09904	0.05428	4.93847
35	1,2,3,7,8,9-HxCDD	1.06390	0.12987	12.20746
36	Total HxCDDs	1.02158	0.07967	7.79841
37				
38	13C-1,2,3,4,6,7,8-HpCDF	0.84273	0.04470	5.30365
39	1,2,3,4,6,7,8-HpCDF	1.30670	0.07887	6.03564
40	1,2,3,4,7,8,9-HpCDF	1.06434	0.10376	9.74841
41	Total HpCDFs	1.18552	0.09003	7.59427
42				
43	13C-1,2,3,4,6,7,8-HpCDD	0.79749	0.03990	5.00319
44	1,2,3,4,6,7,8-HpCDD	0.99684	0.05299	5.31535
45	Total HpCDDs	0.99684	0.05299	5.31535
46				
47	13C-OCDD	0.59869	0.03502	5.84954

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:32 Pacific Standard Time

#	Name	RT	Area	Amount
48	OCDF	1.26224	0.11865	9.39998
49	OCDD	1.11522	0.06009	5.38825
50				
51				
52	Function 1 PFK	11489.54900	8071.33682	70.24938
53	Function 2 PFK	9733.63550	5820.31117	59.79586
54	Function 3 PFK	5225.13050	1100.08208	21.05368
55	Function 4 PFK	4454.80333	6288.24877	141.15660
56	Function 5 PFK	3910.74167	1894.19759	48.43576
57	TCDF PCDPE	45.93425	43.03779	93.69433
58	F1 PeCDF PCDPE	76.17900	79.72604	104.65619
59	F2 PeCDF PCDPE	92.30900	72.65489	78.70835
60	HXCDF PCDPE	77.61100	82.57176	106.39182
61	HPCDF PCDPE	88.95350	82.45643	92.69610
62	OCDF PCDPE	102.26850	73.15913	71.53632

Quantify Sample Report **MassLynx 4.1**

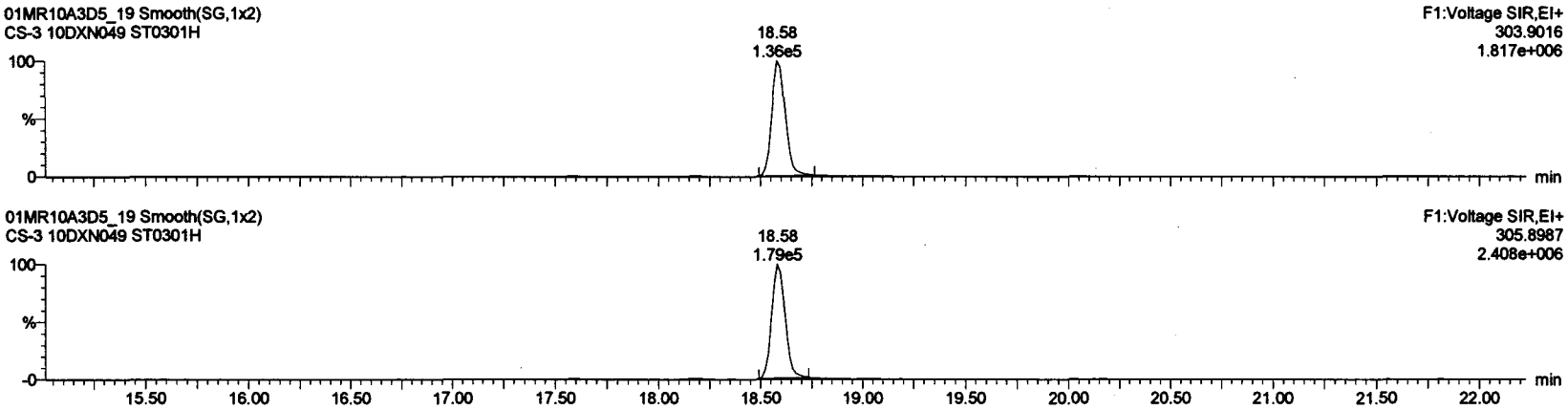
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

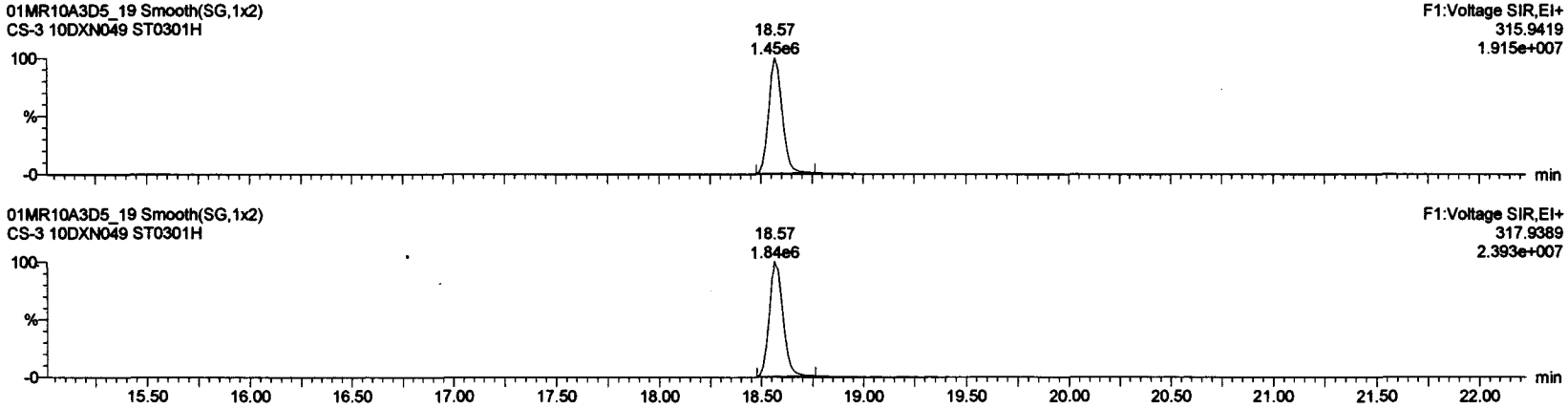
Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 01 Mar 2010 16:44:35
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

TCDFs



13C-TCDF



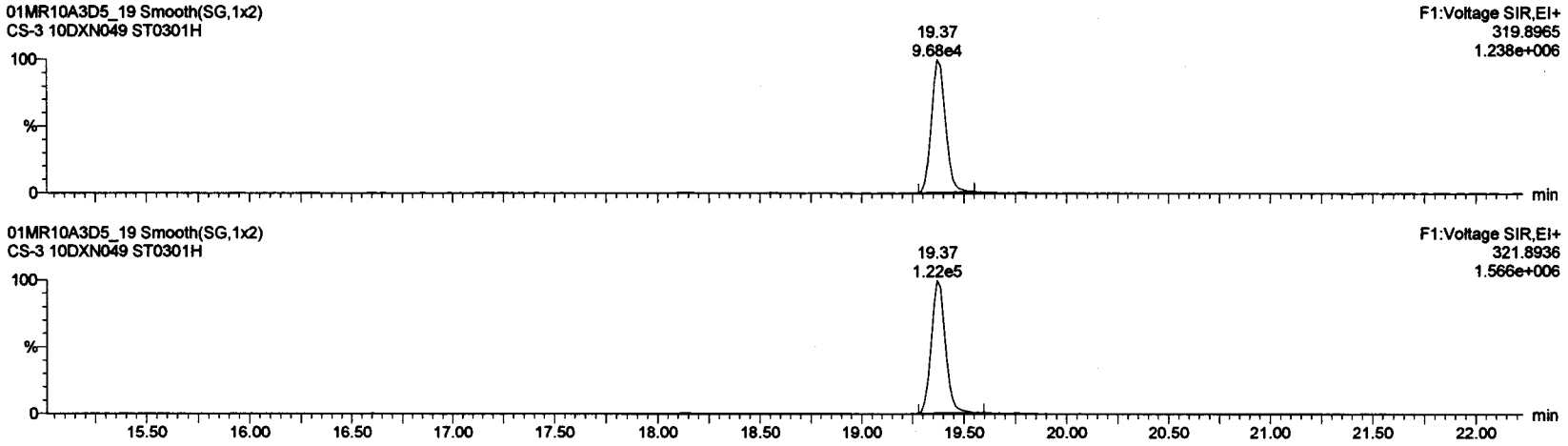
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

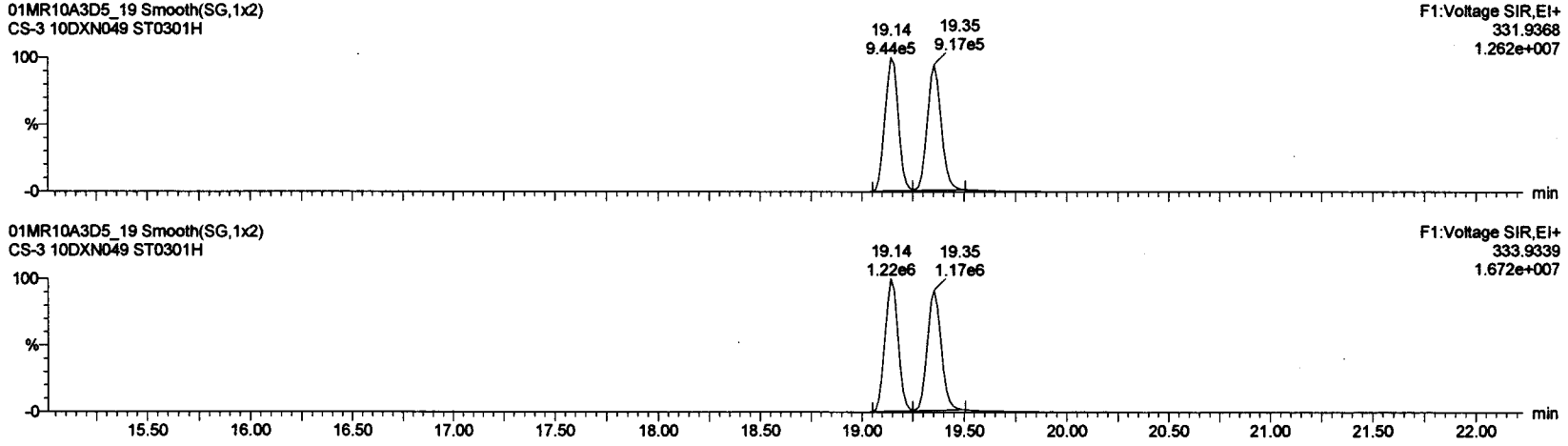
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

TCDDs



13C-TCDDs



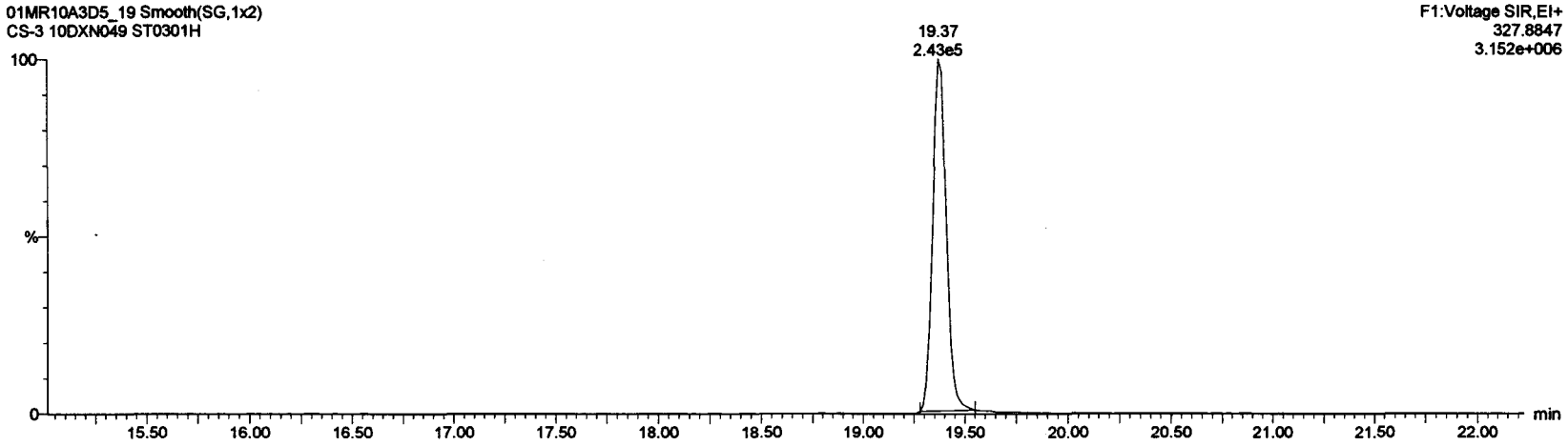
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

37CL-2,3,7,8-TCDD



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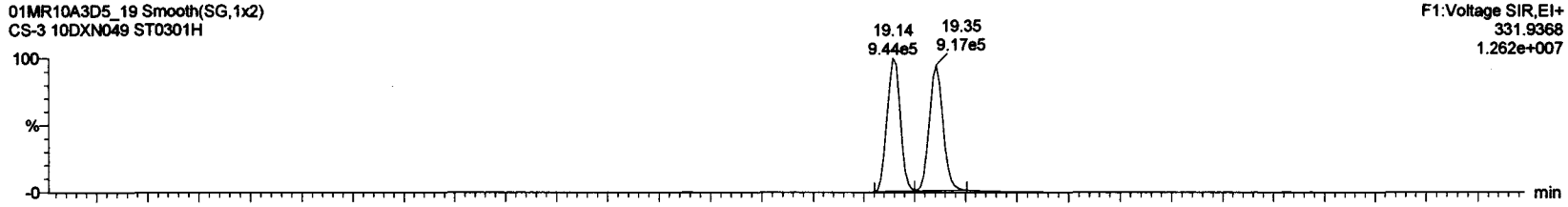
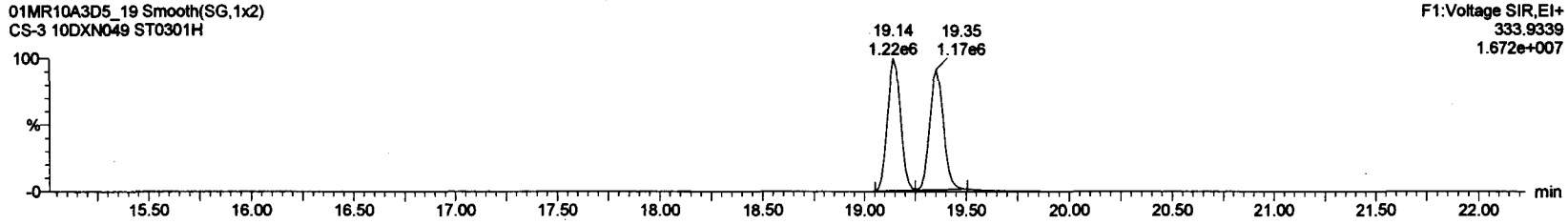




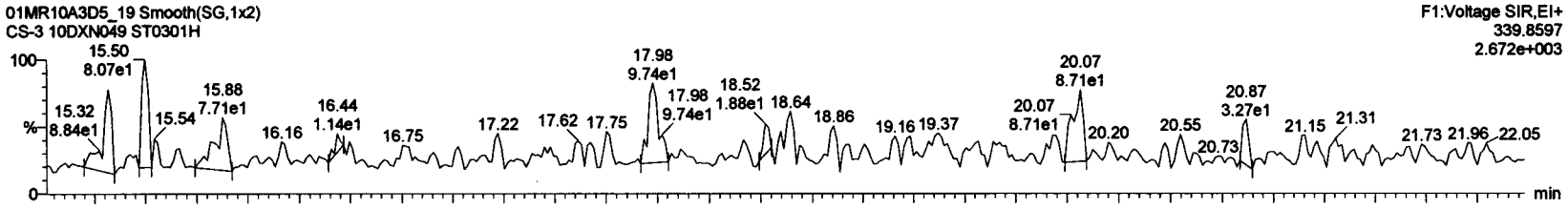
Quantify Sample Report **MassLynx 4.1**

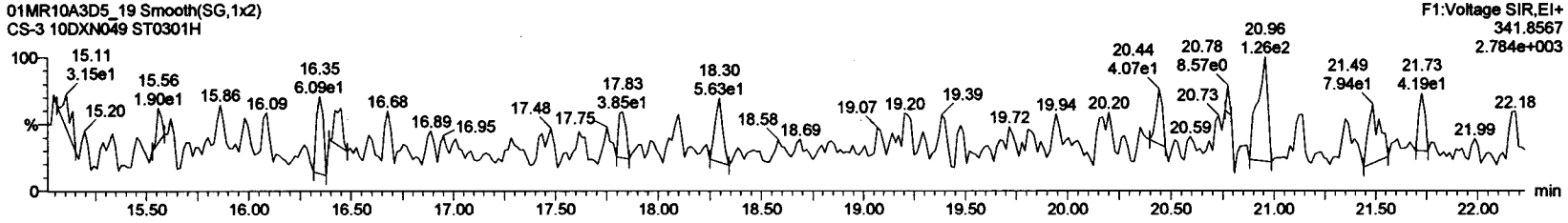
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

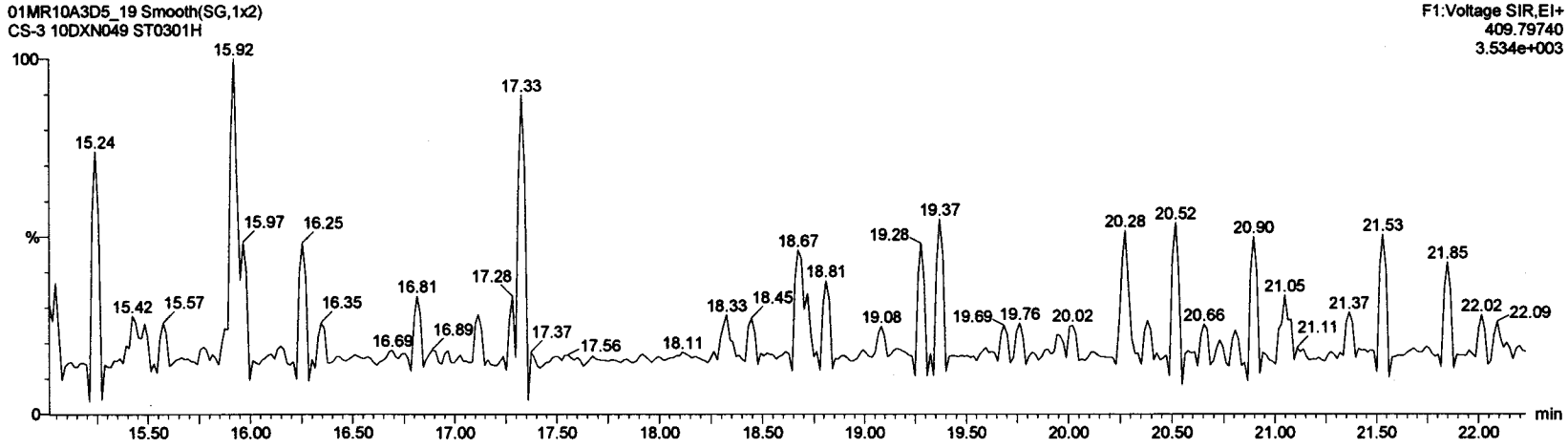
Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

F1 PeCDFs





F1 PeCDF PCDPE



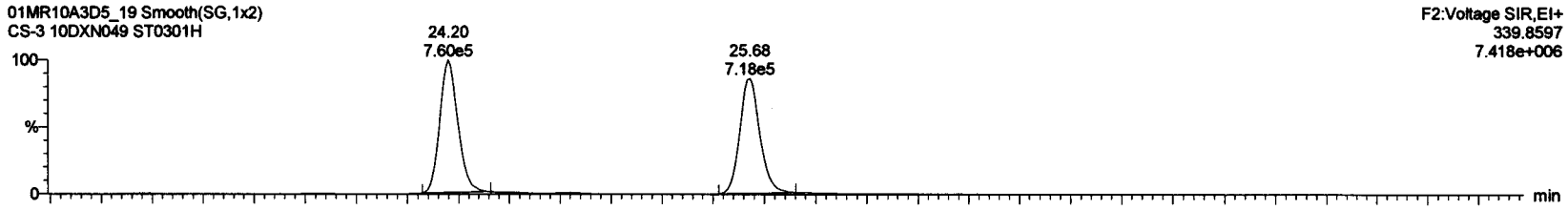
Quantify Sample Report **MassLynx 4.1**

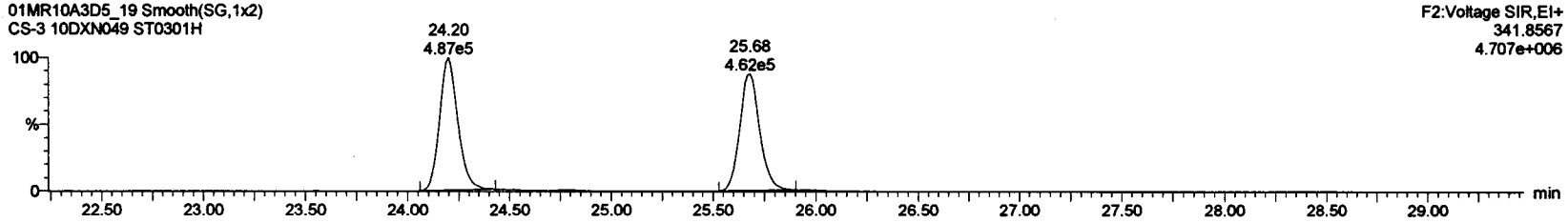
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

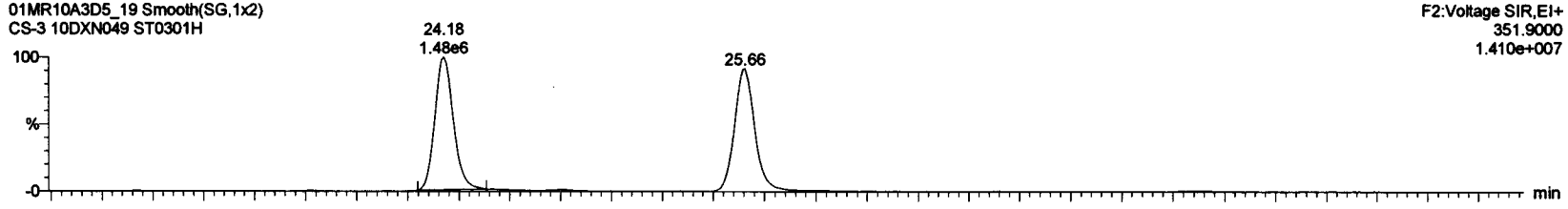
Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

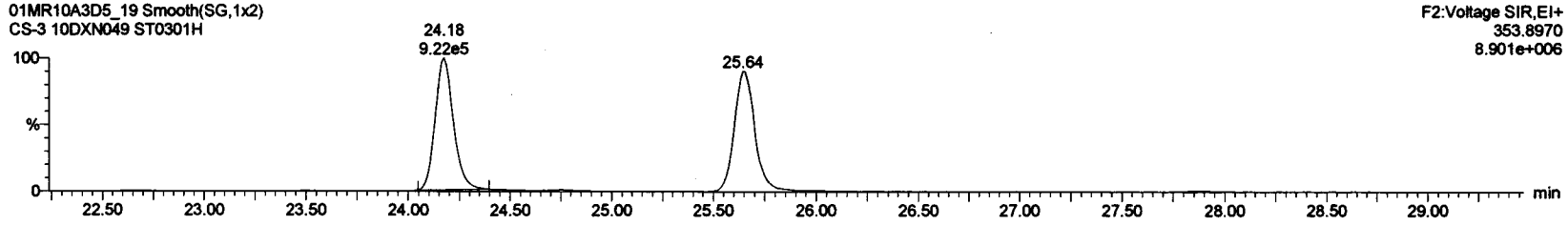
PeCDFs





13C-PeCDFs





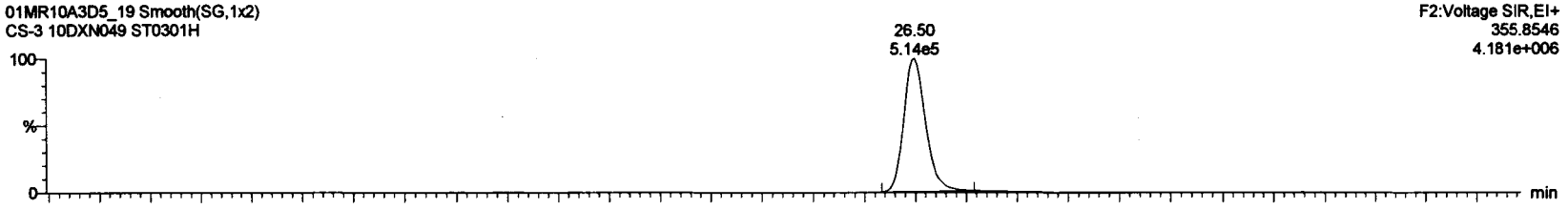
Quantify Sample Report **MassLynx 4.1**

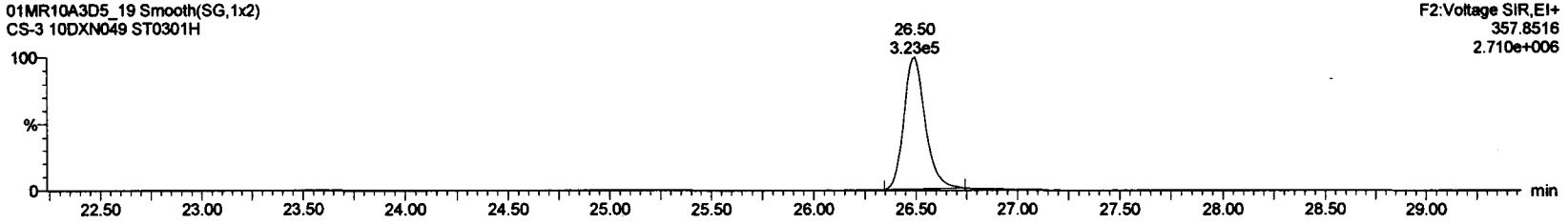
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

PeCDDs





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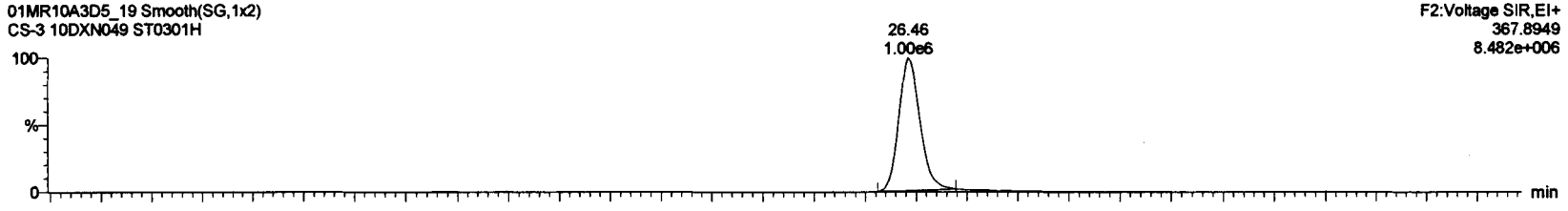
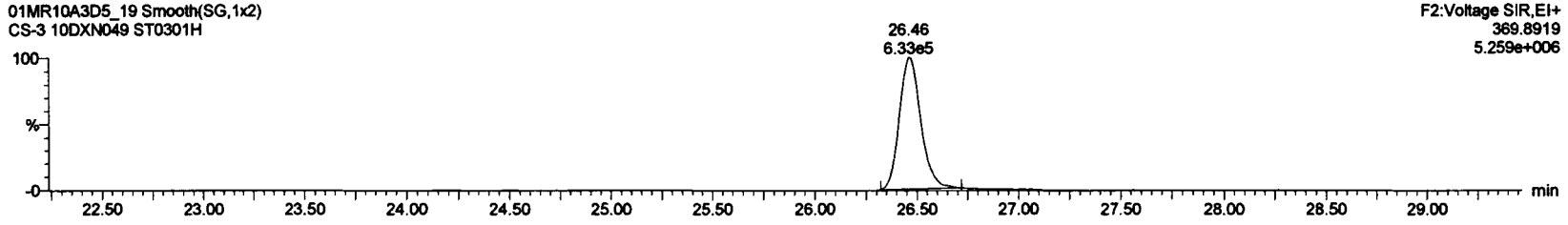




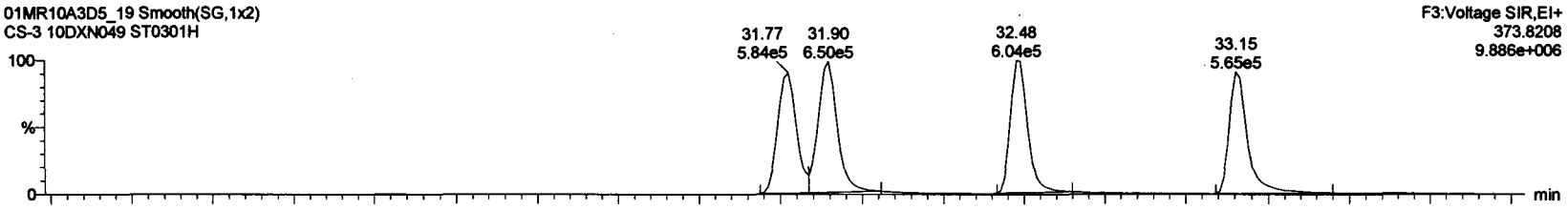
Quantify Sample Report **MassLynx 4.1**

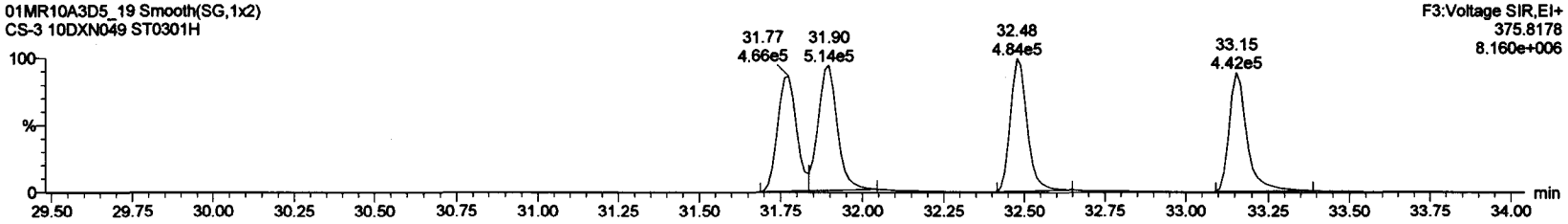
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

HxCDFs





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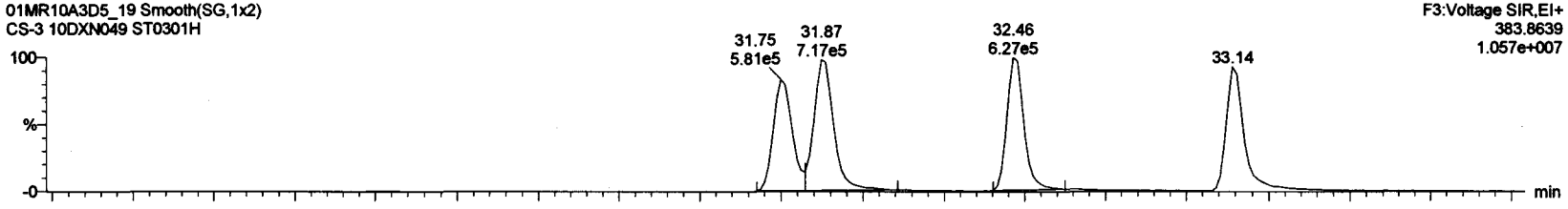

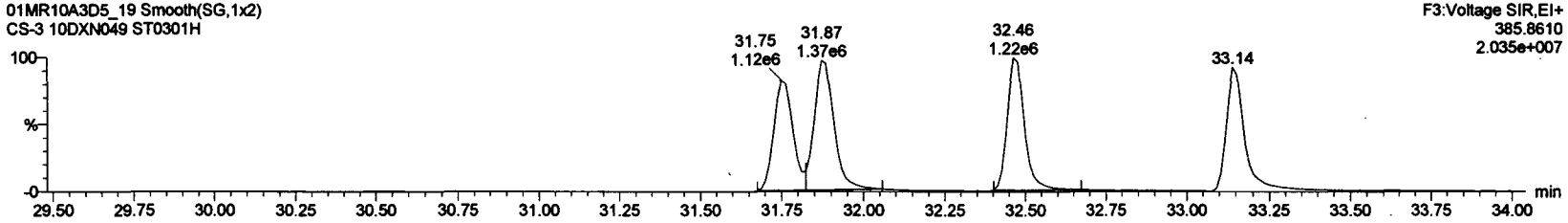

Quantify Sample Report **MassLynx 4.1**

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Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

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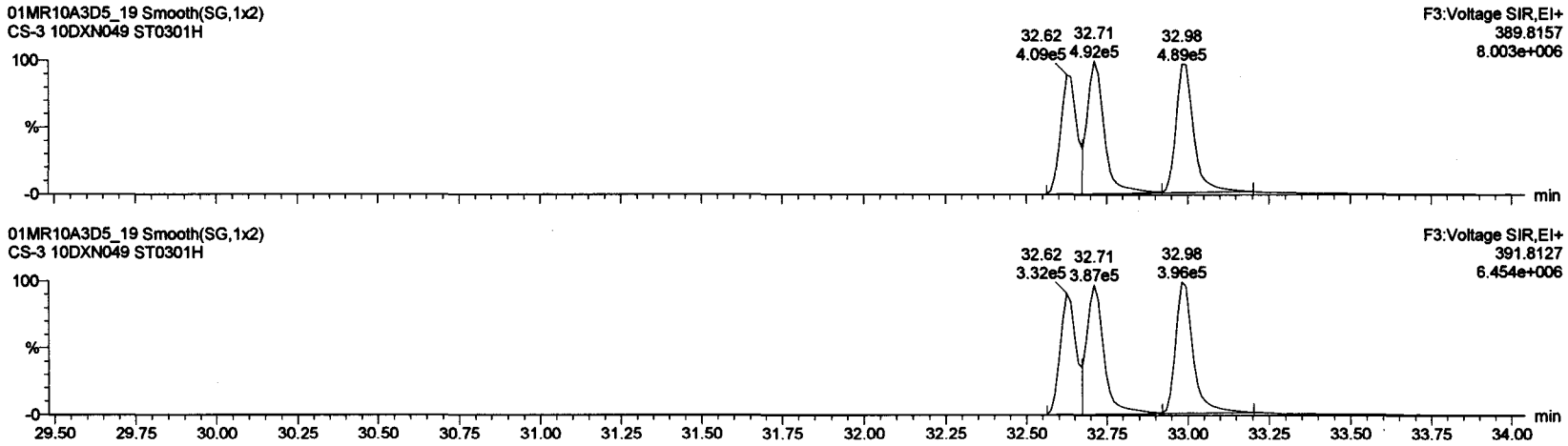

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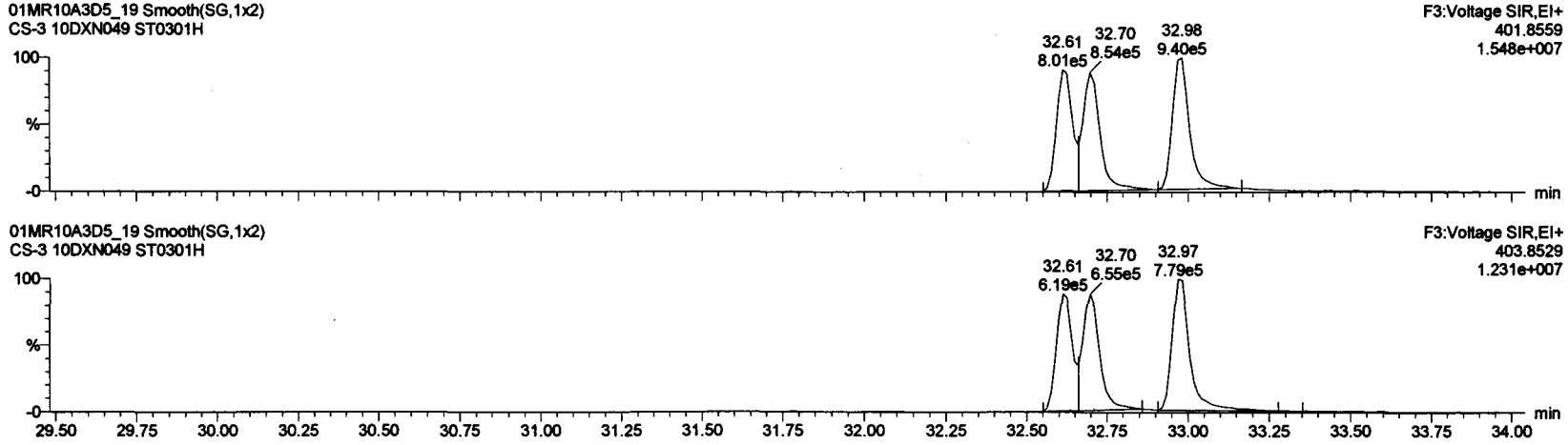

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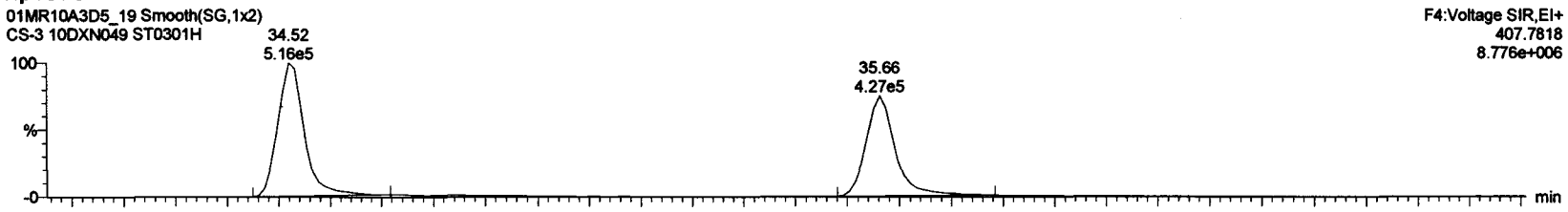

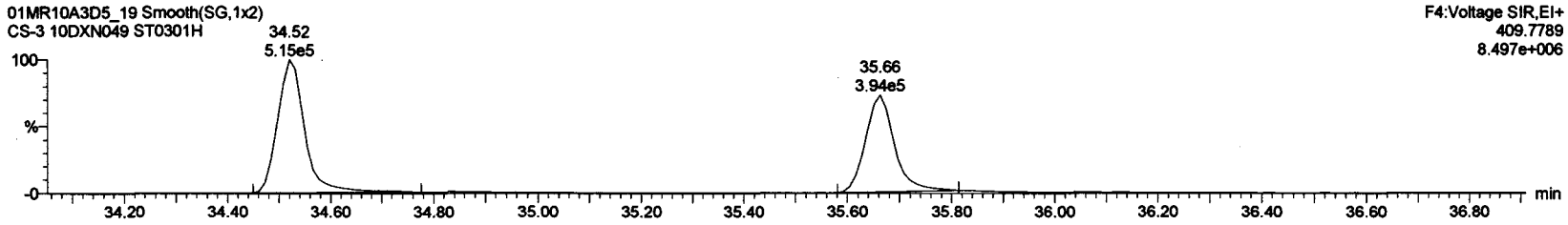

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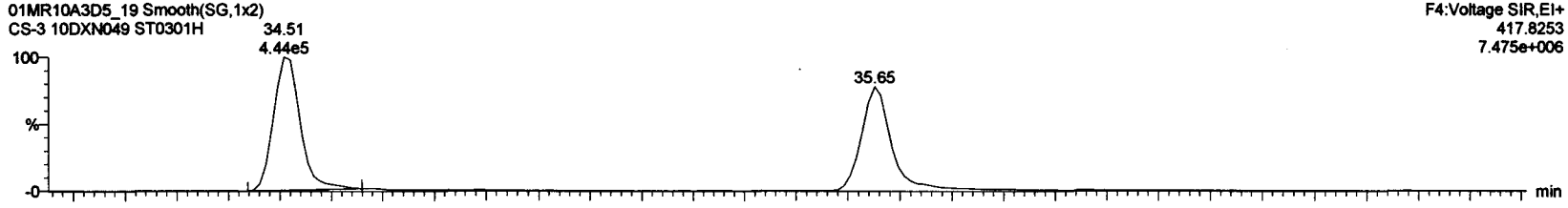

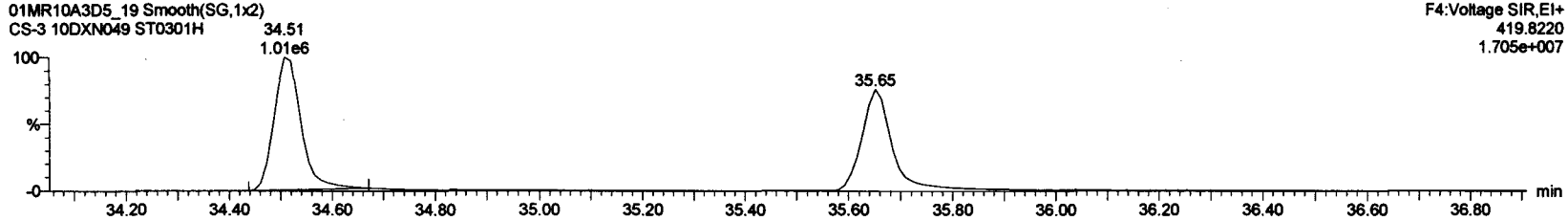

Quantify Sample Report **MassLynx 4.1**

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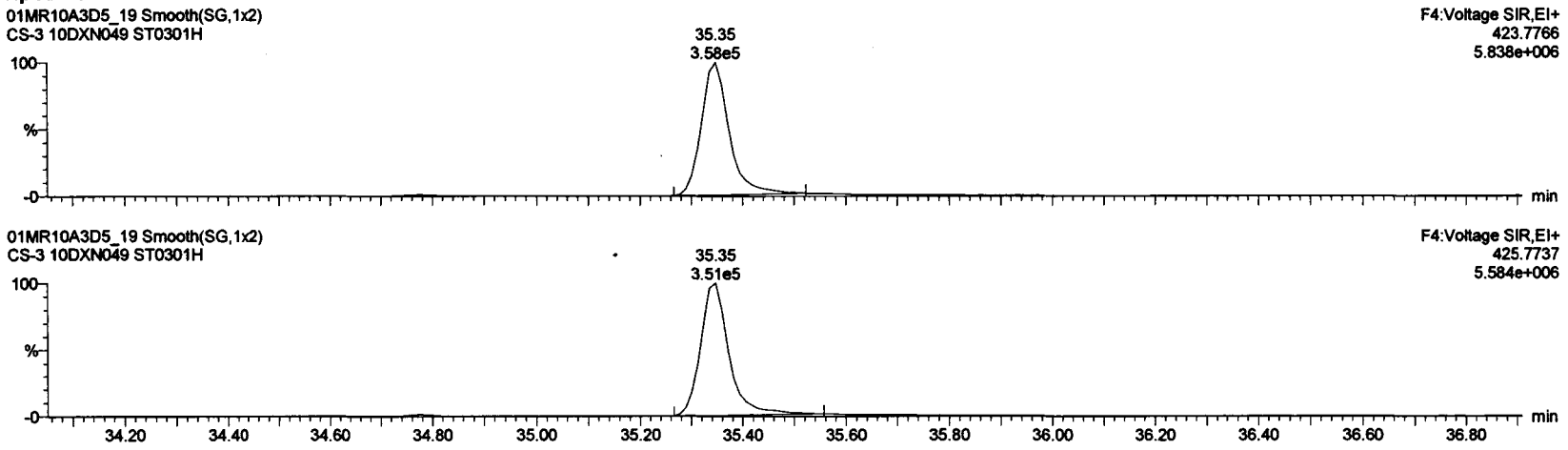
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

HpCDDs



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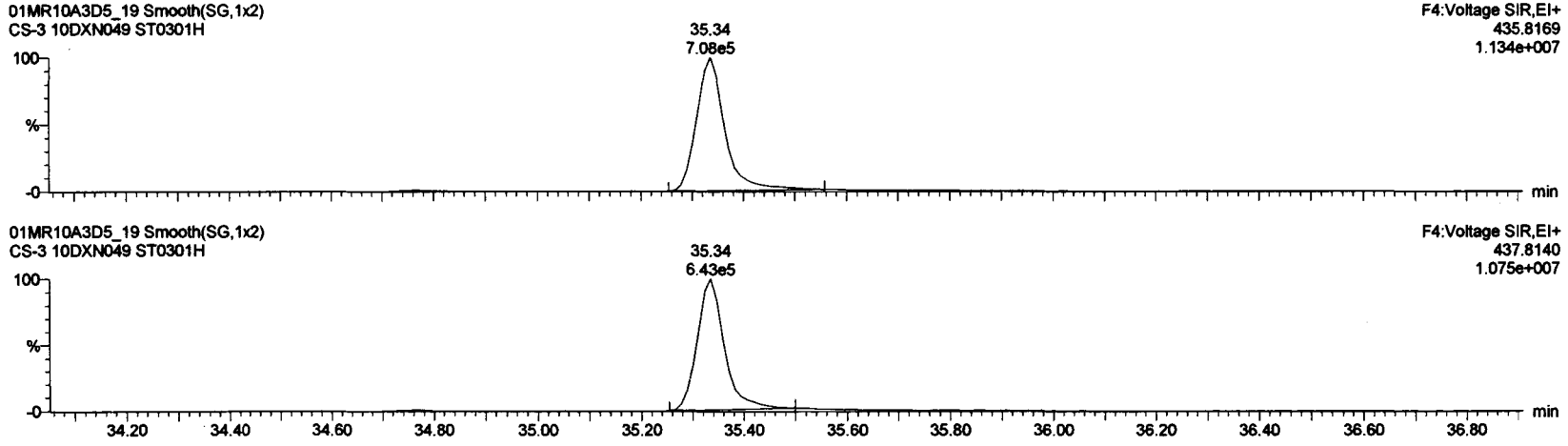

Quantify Sample Report **MassLynx 4.1**

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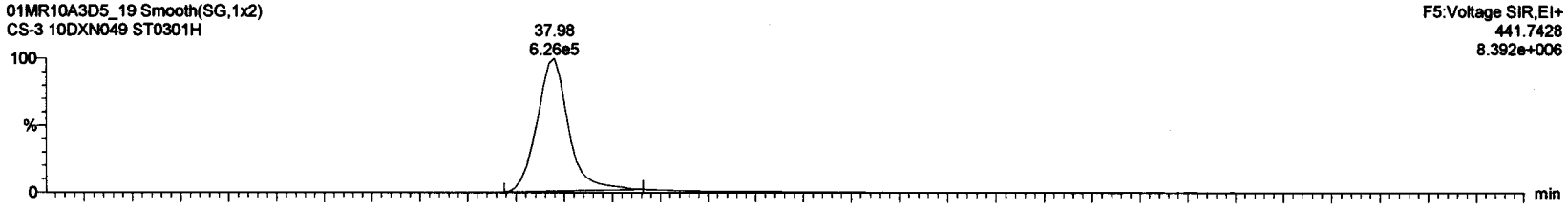
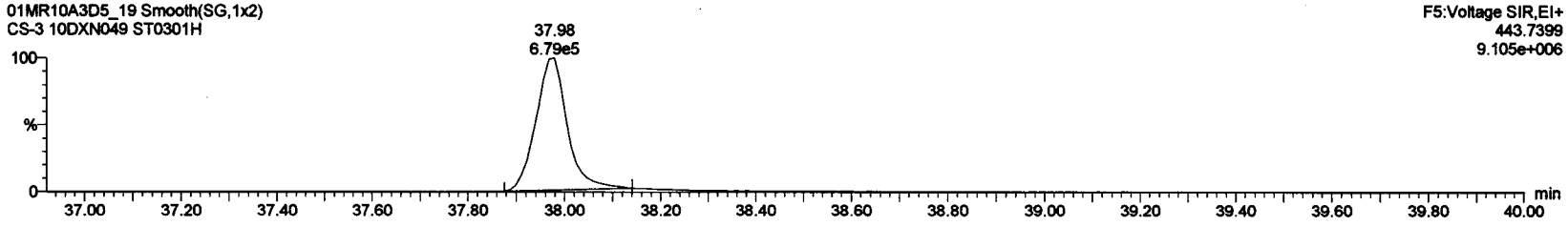
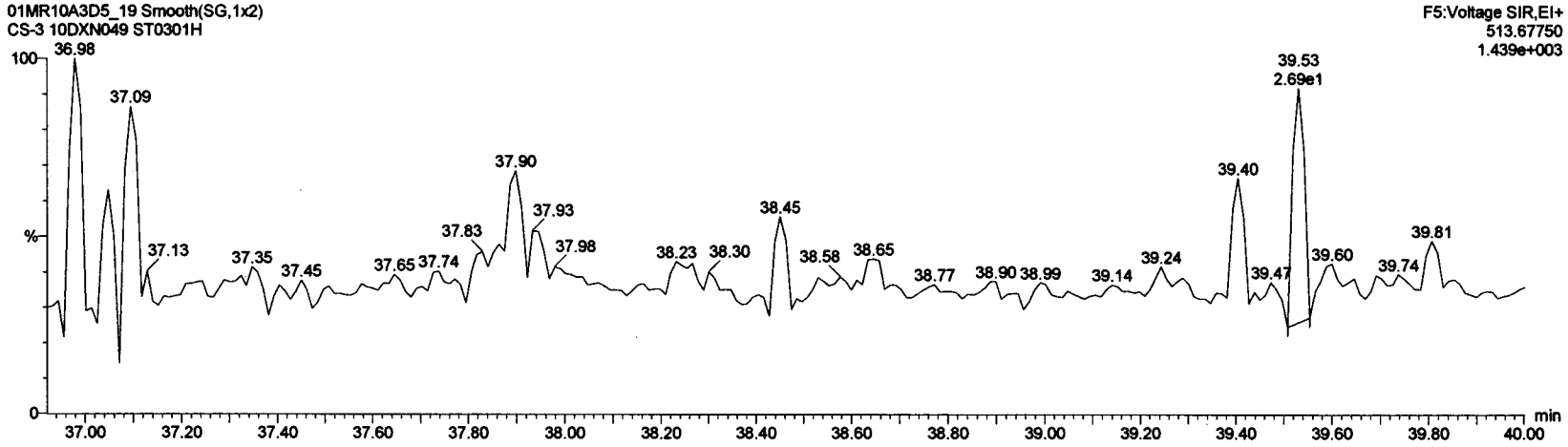
Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

OCDFs





OCDF PCDPE



Quantify Sample Report **MassLynx 4.1**

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Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

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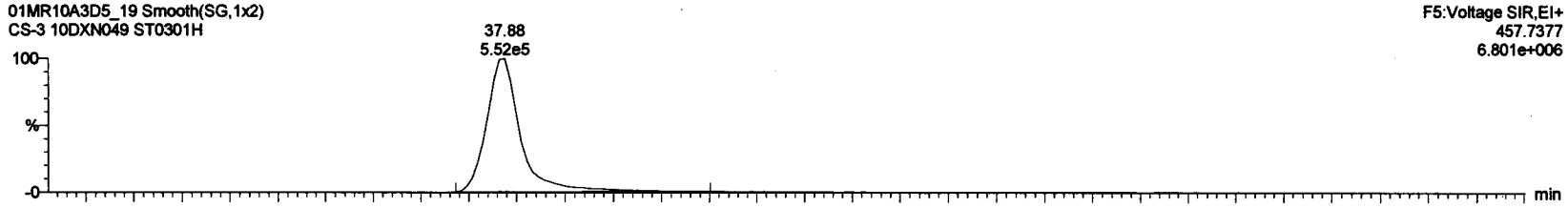
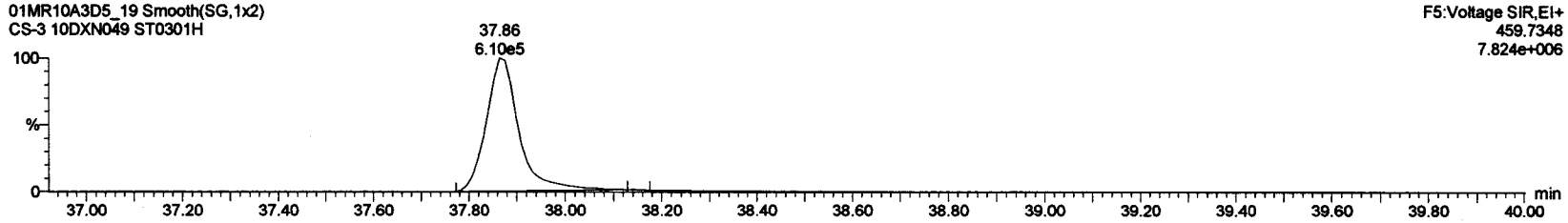
OCDD





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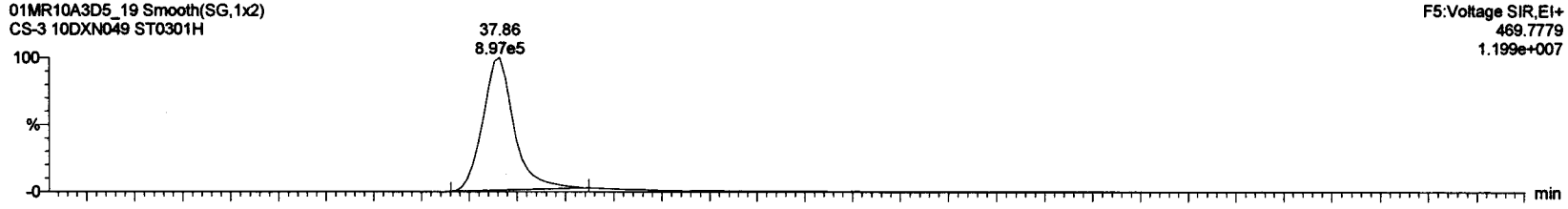
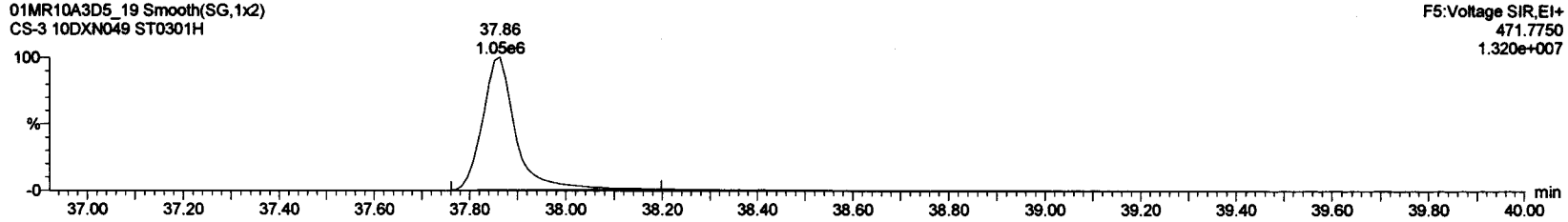




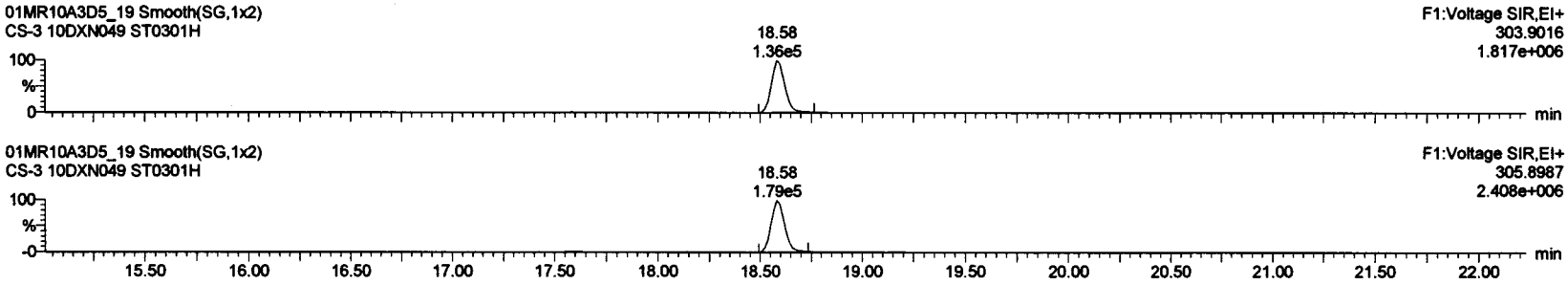
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

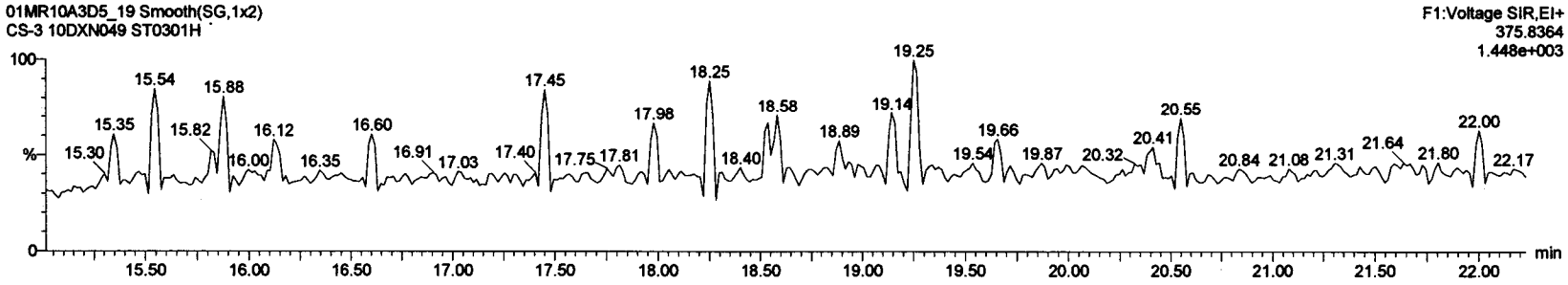
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

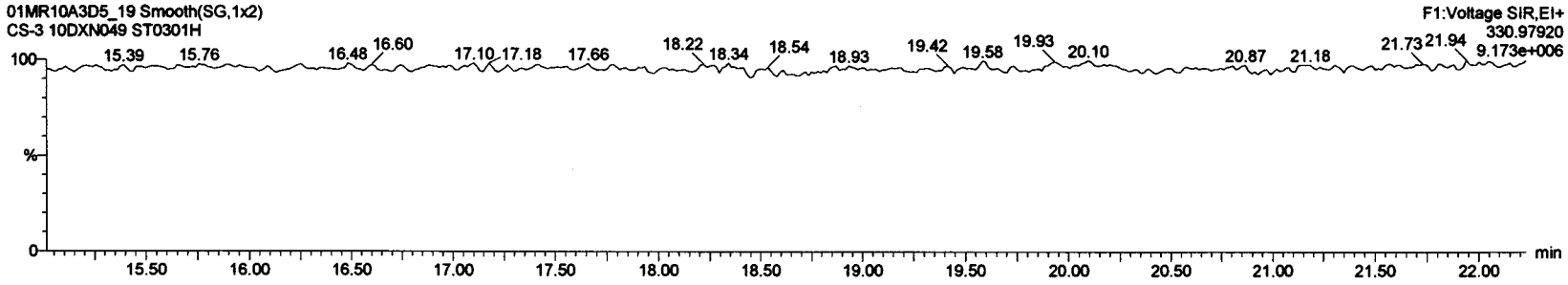
TCDFs



TCDF PCDPE



Function 1 PFK



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
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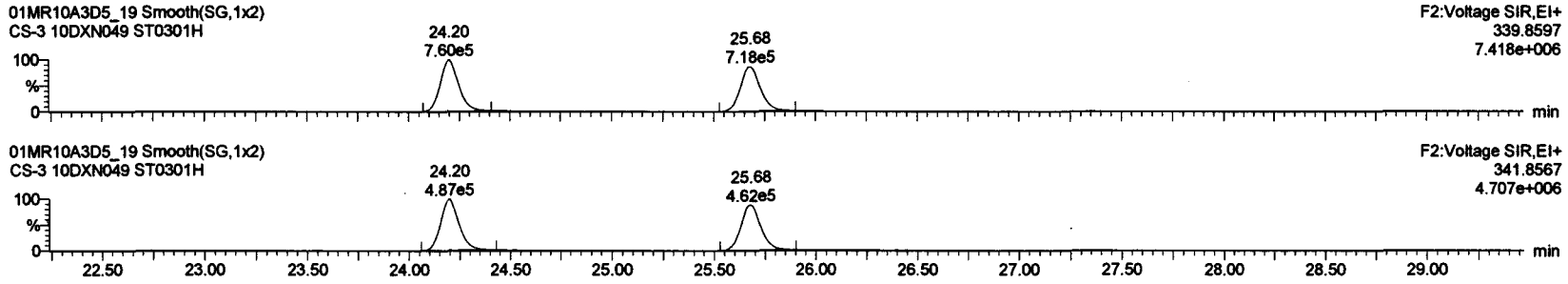
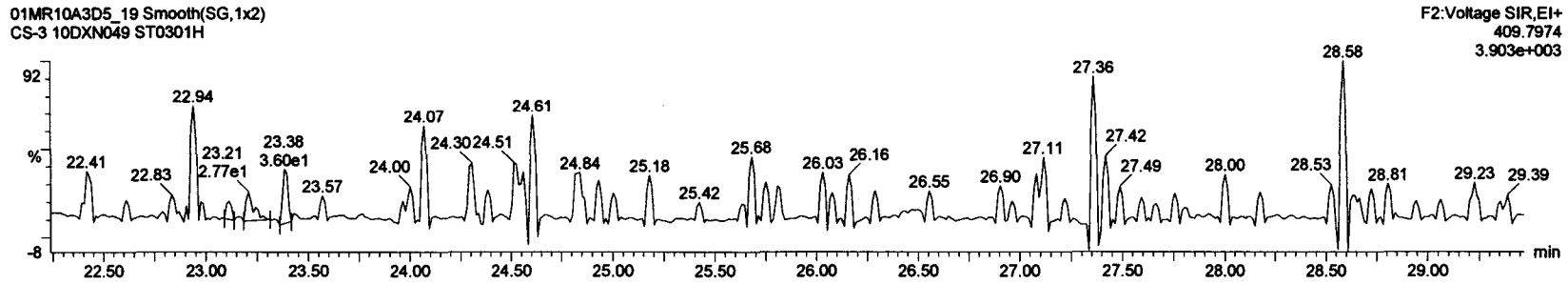
Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

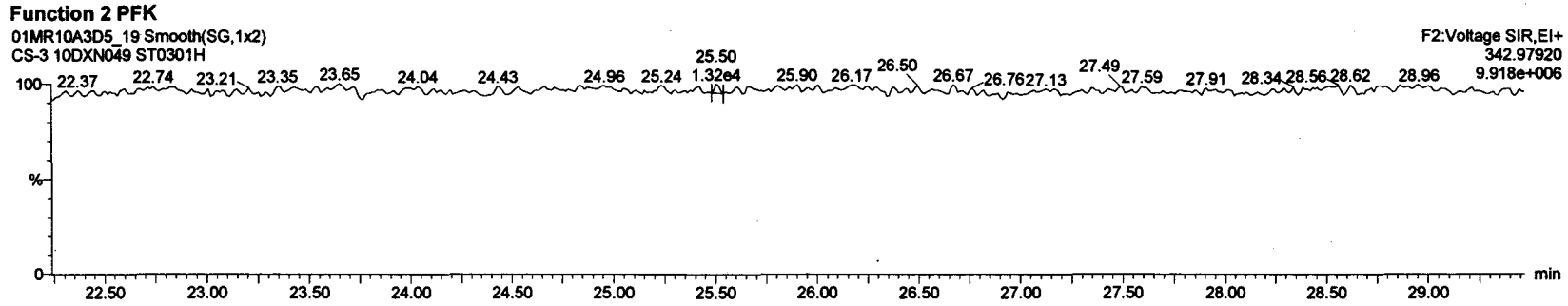
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



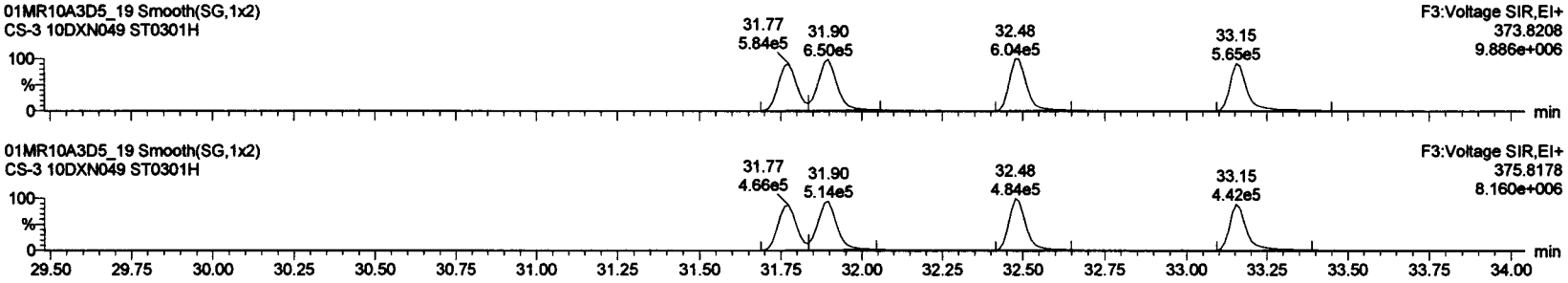
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

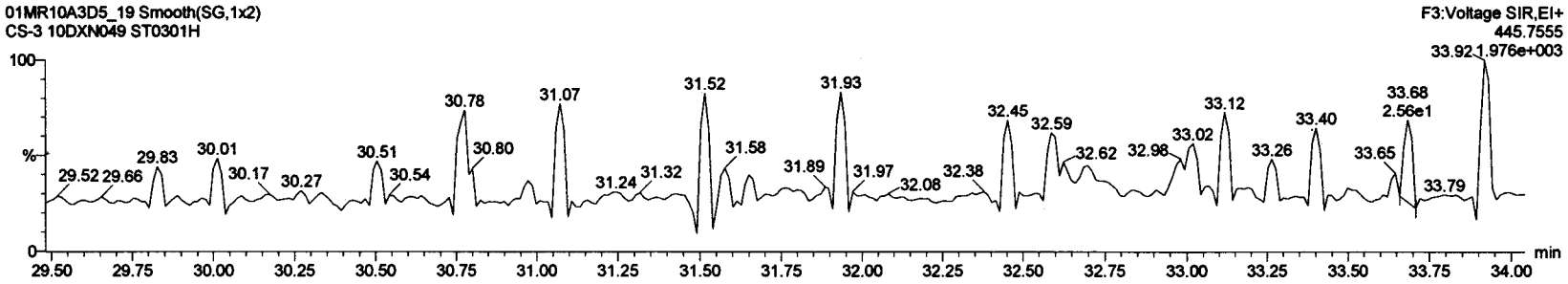
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

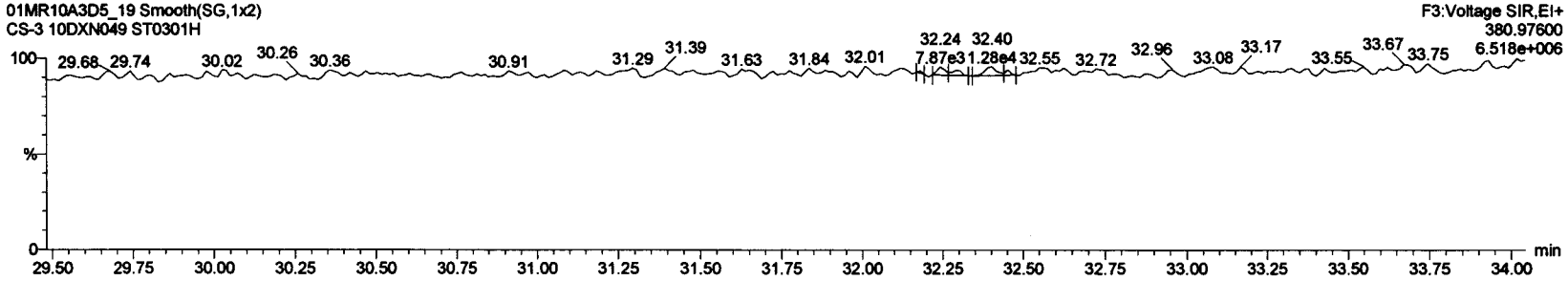
HxCDFs



HxCDF PCDPE



Function 3 PFK



Quantify Sample Report **MassLynx 4.1**

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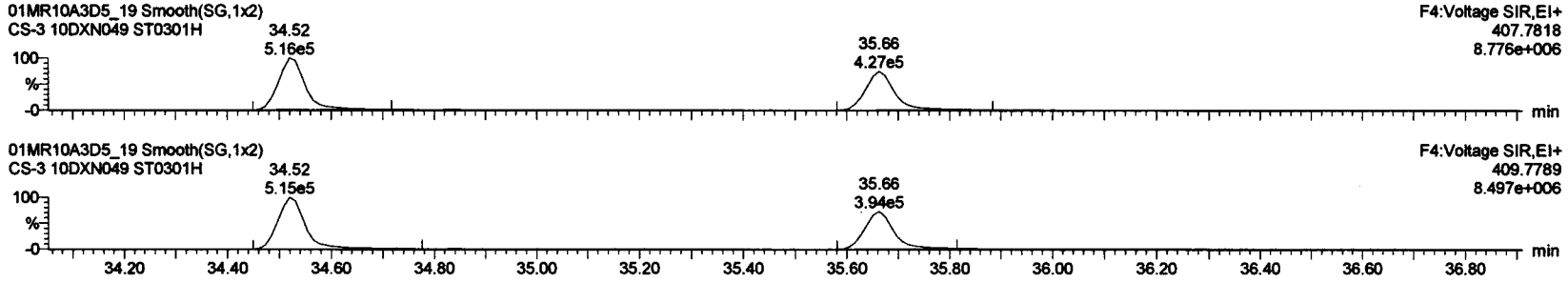
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

HpCDFs



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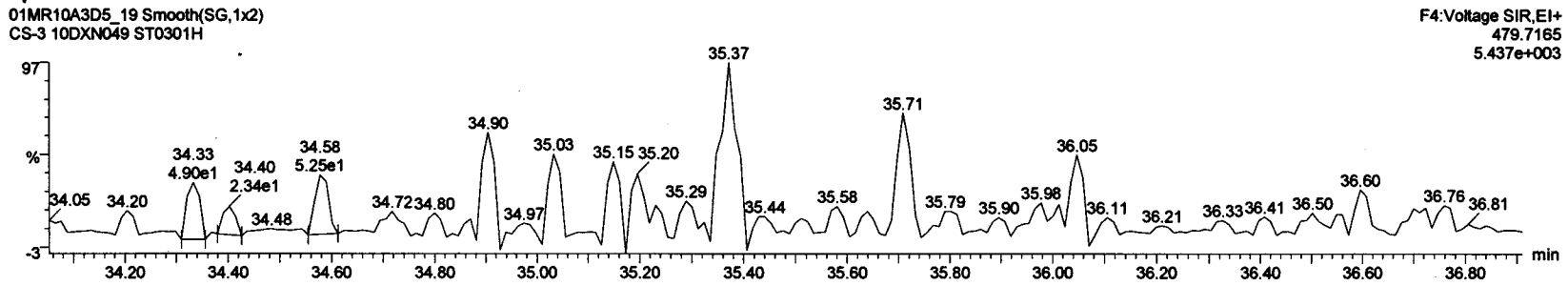

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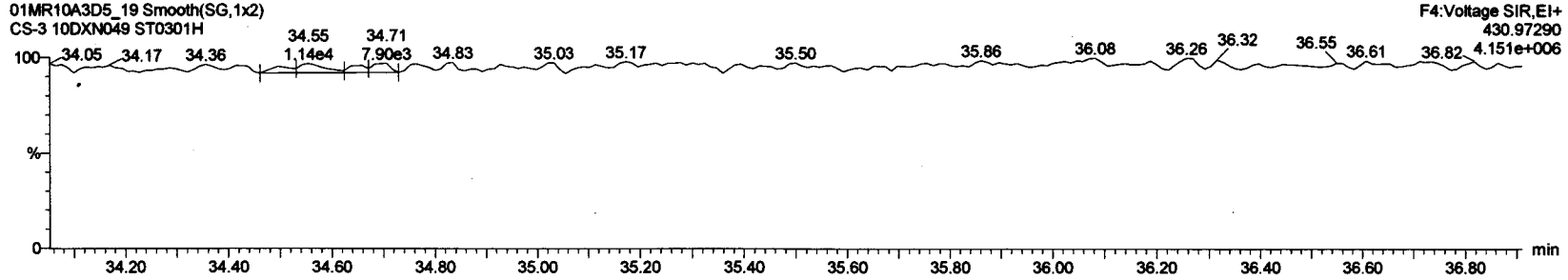

Quantify Sample Report **MassLynx 4.1**

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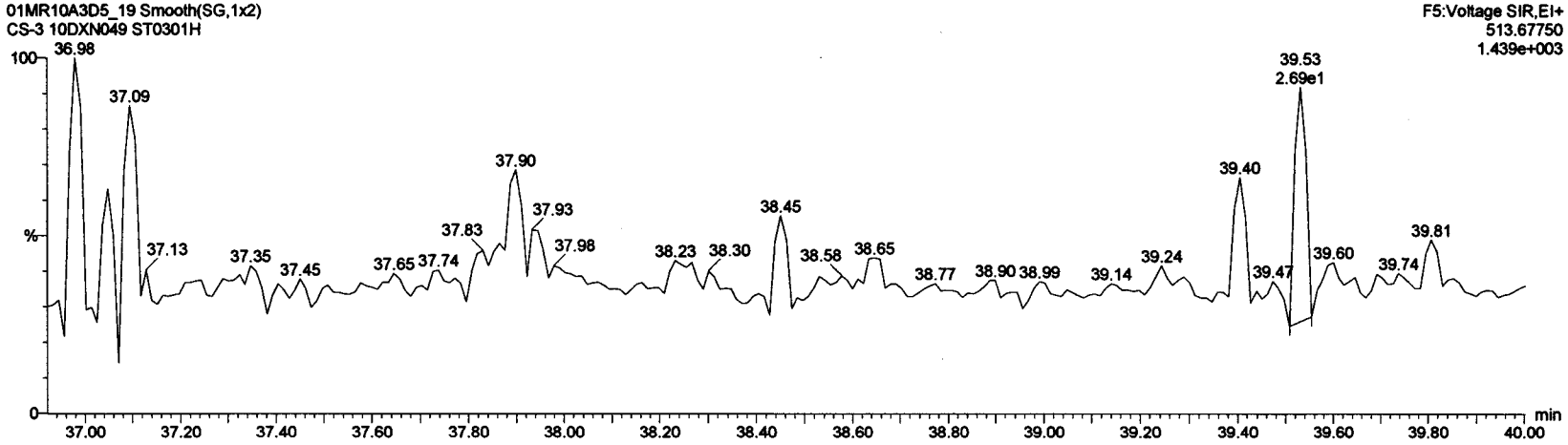
Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

OCDF PCDPE



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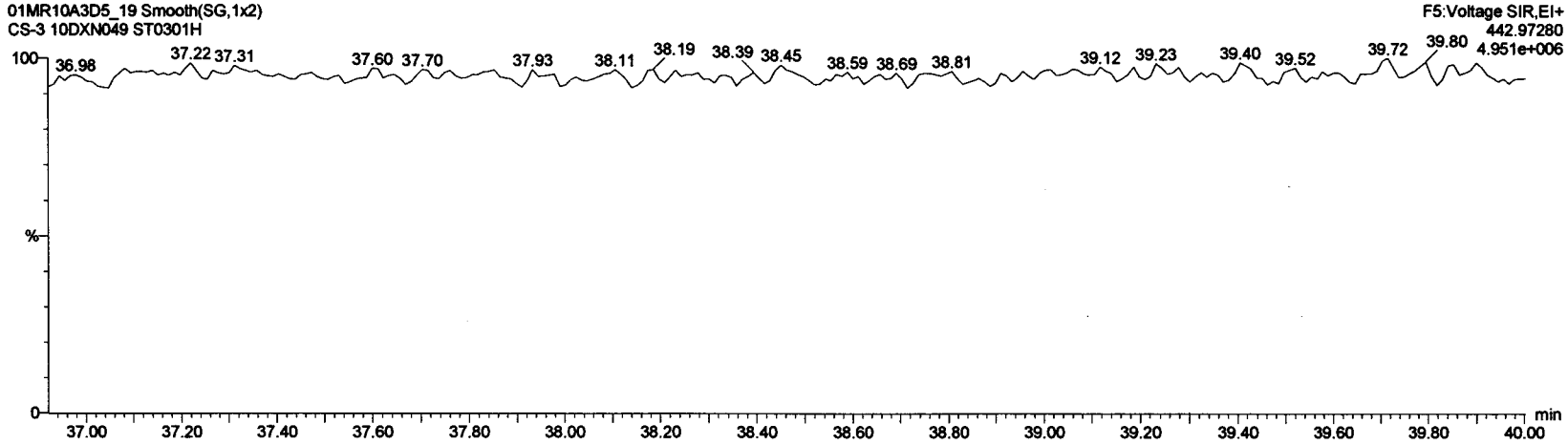

Quantify Sample Report **MassLynx 4.1**

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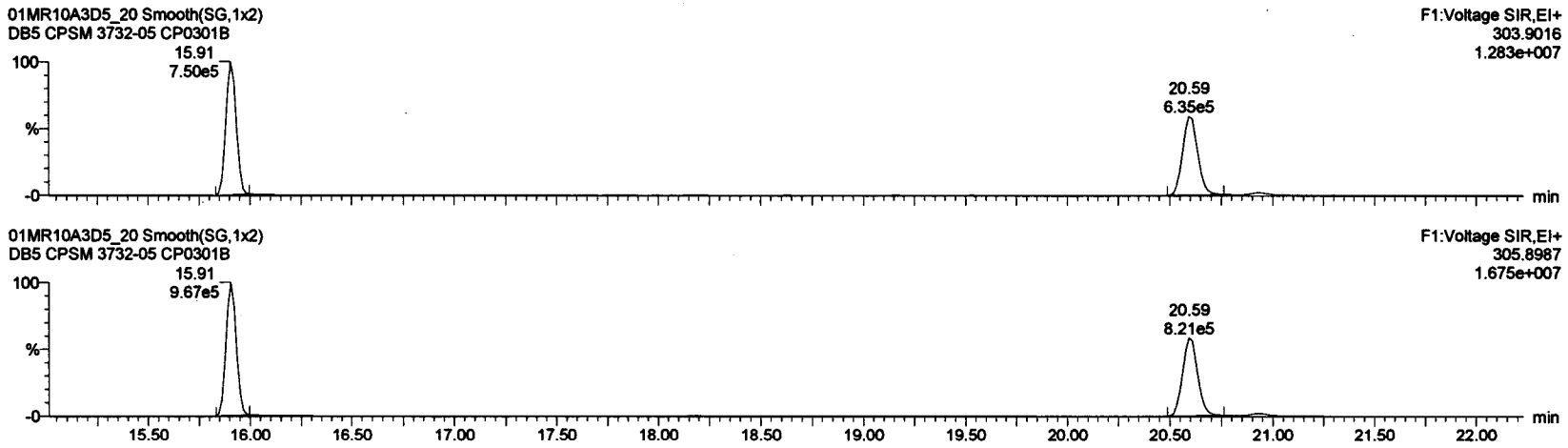
TCDFs



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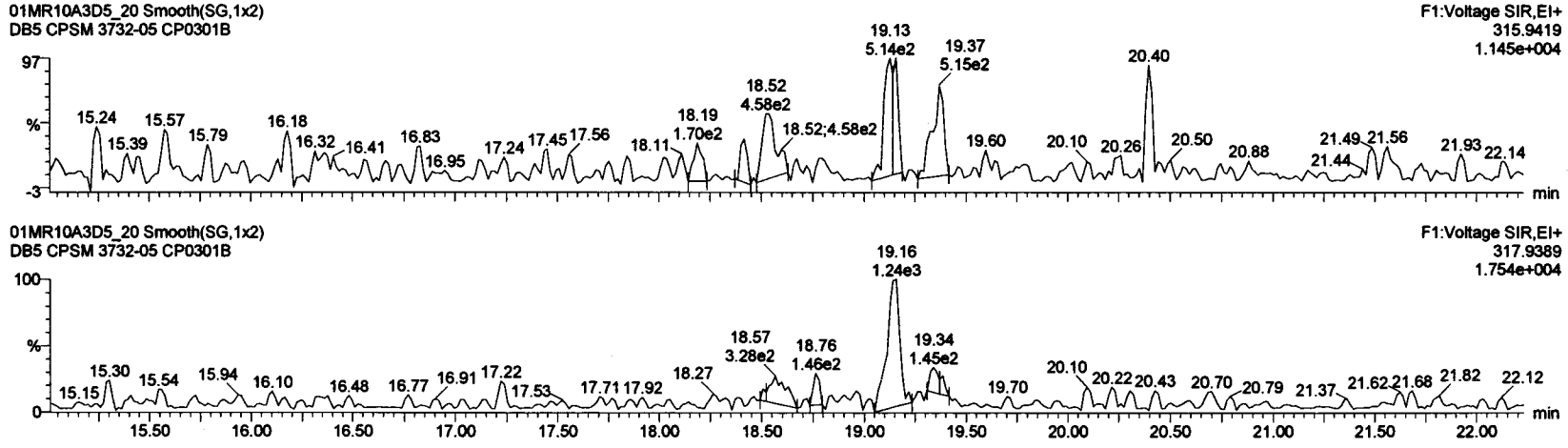

Quantify Sample Report **MassLynx 4.1**

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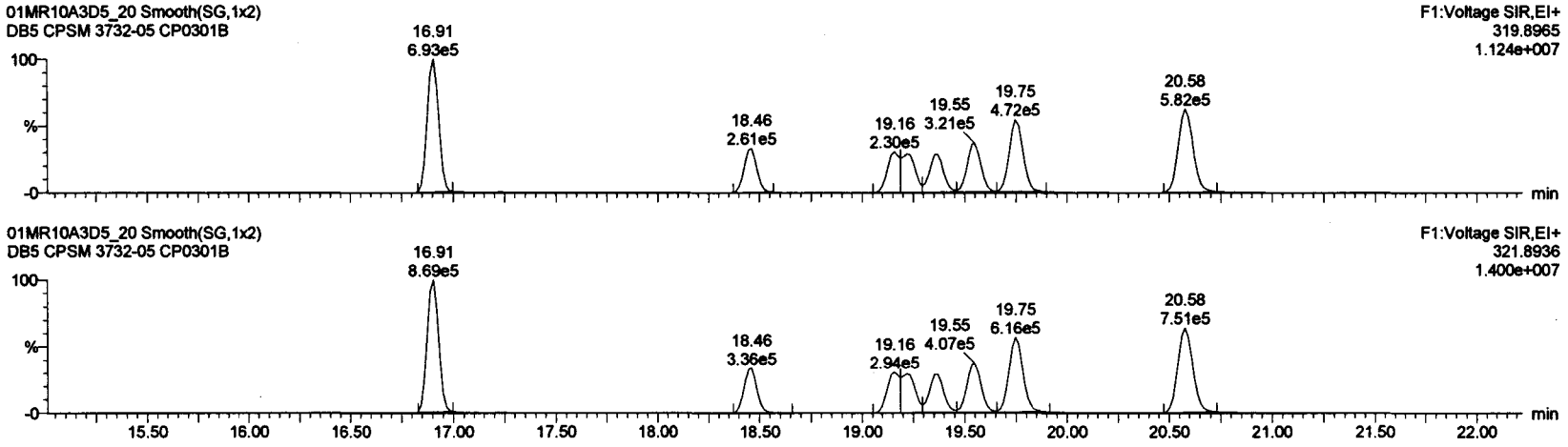
TCDDs



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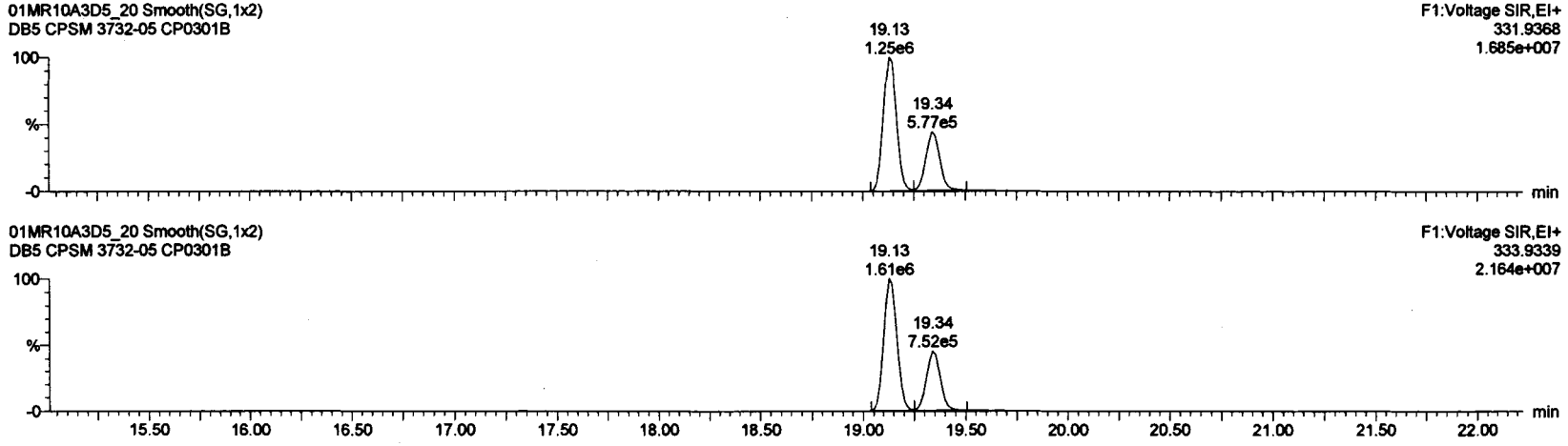

Quantify Sample Report **MassLynx 4.1**

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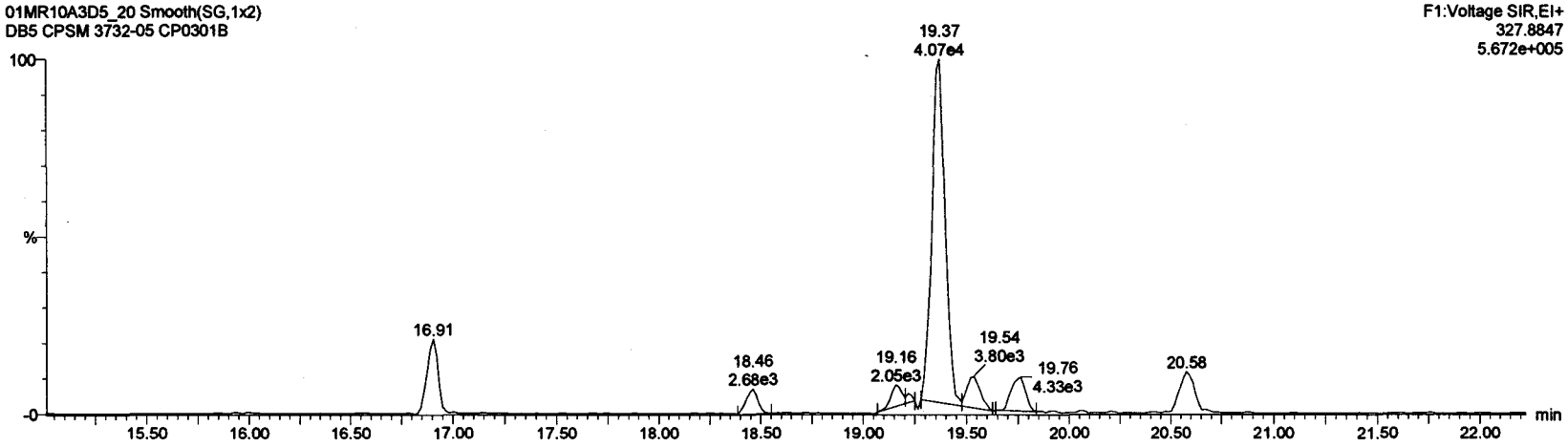
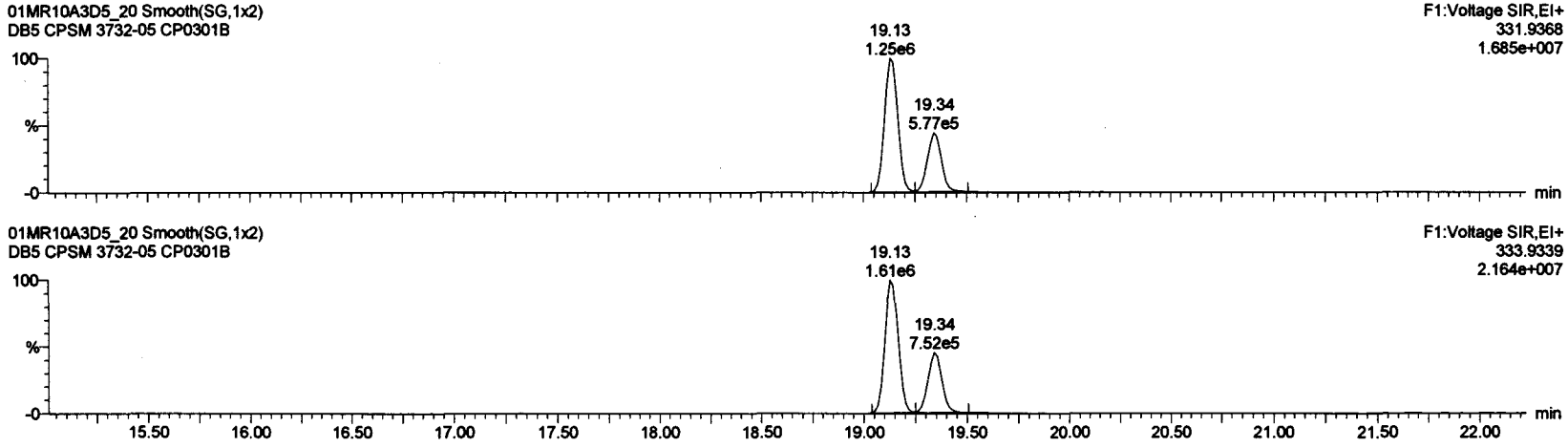
Name: 01MR10A3D5_20, Date: 02-Mar-2010, Time: 09:27:11, ID: CP0301B, Description: DB5 CPSM 3732-05

37CL-2,3,7,8-TCDD



13C-TCDDs



Quantify Sample Report **MassLynx 4.1**

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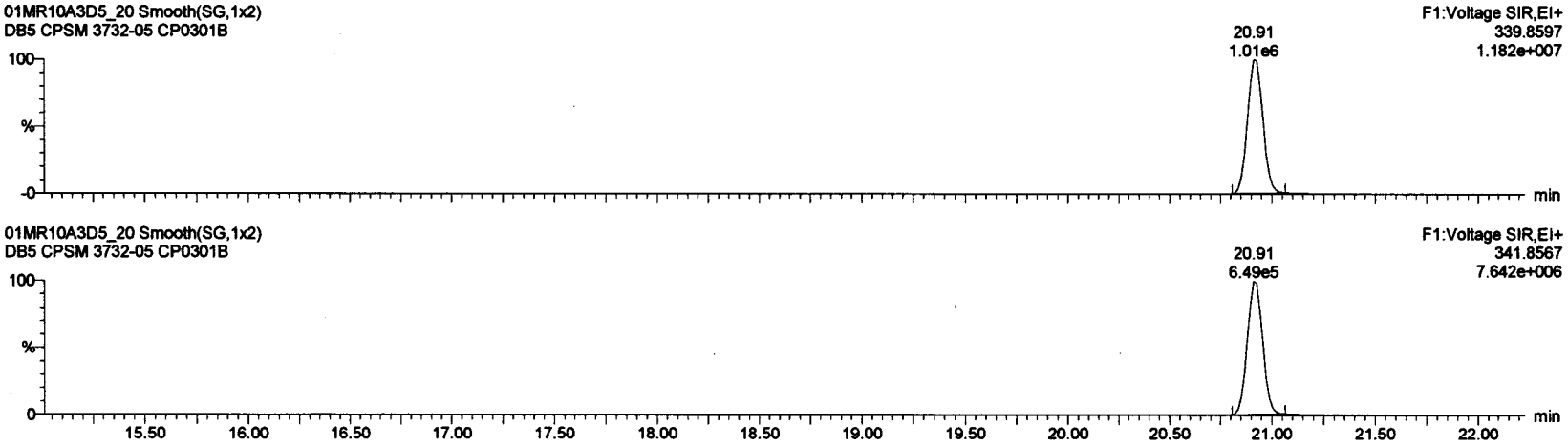
F1 PeCDFs



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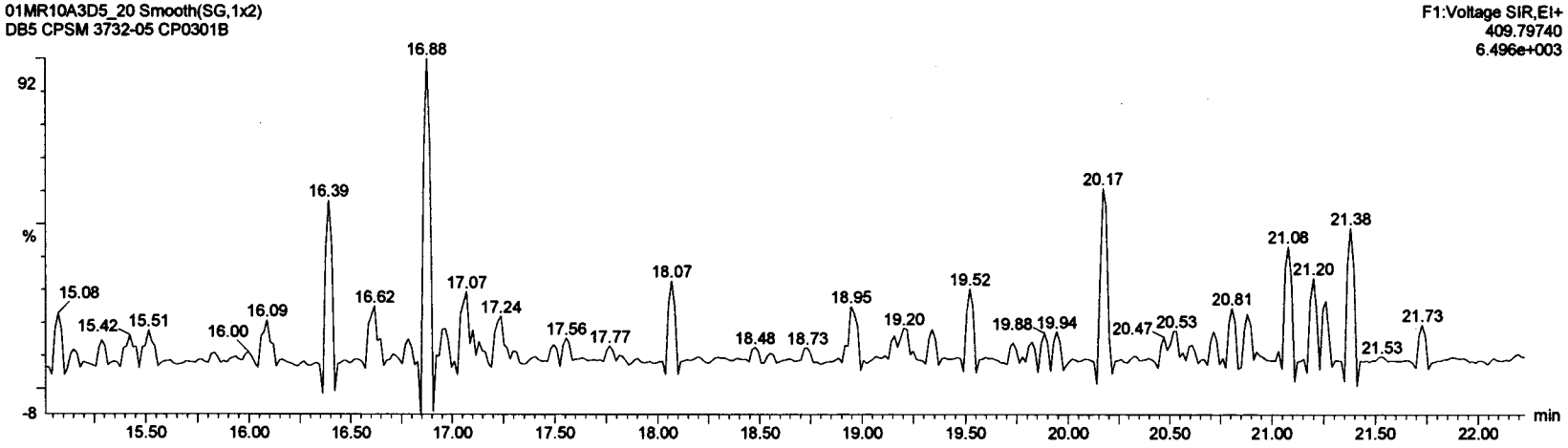

Quantify Sample Report **MassLynx 4.1**

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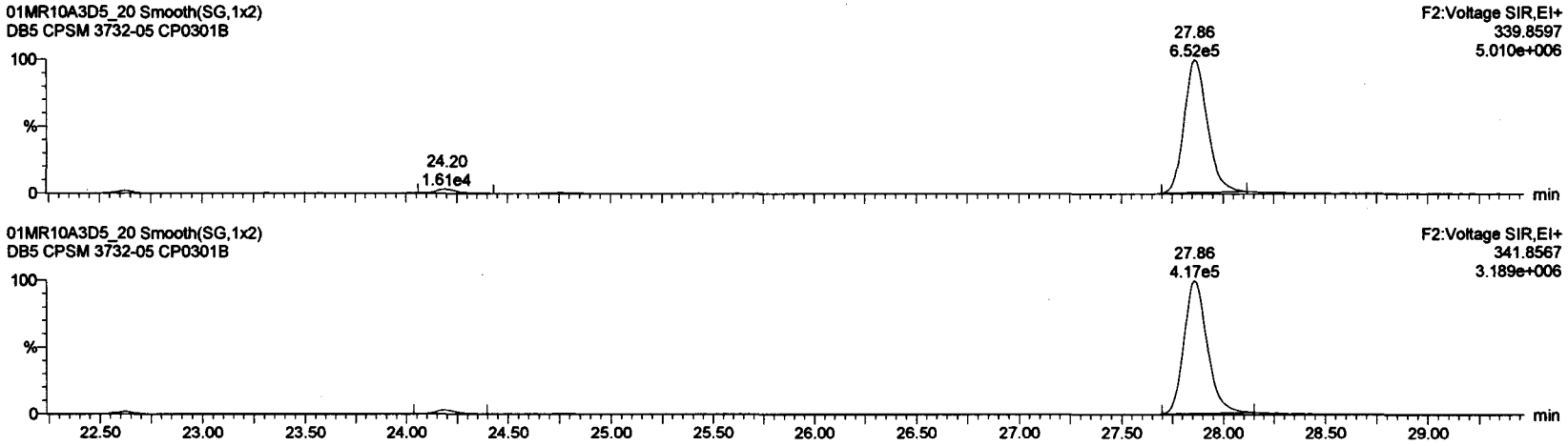
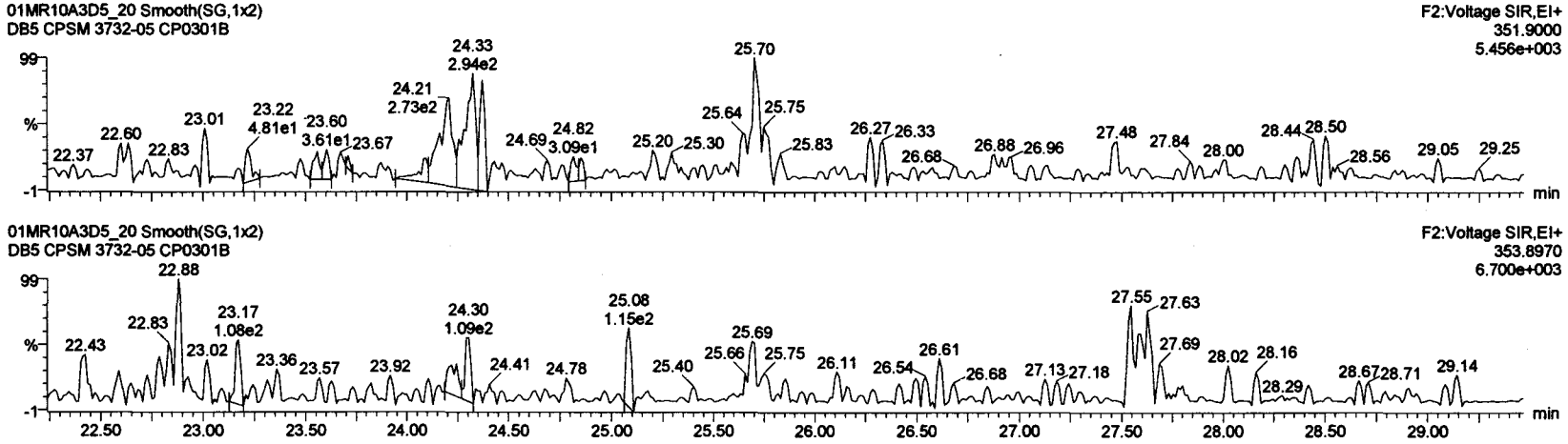
PeCDFs



13C-PeCDFs



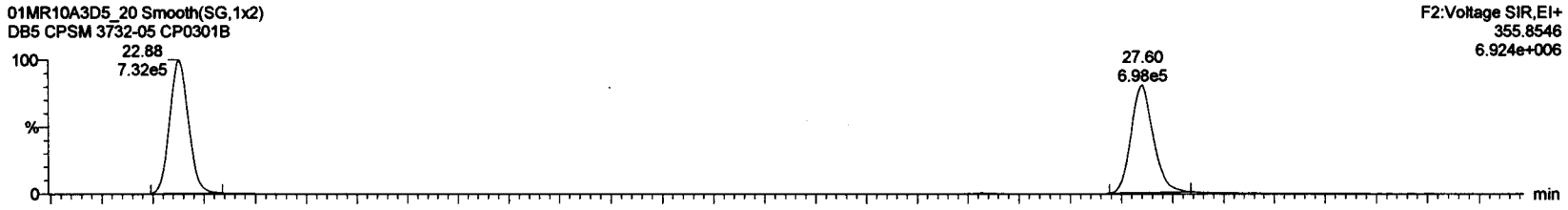
Quantify Sample Report **MassLynx 4.1**

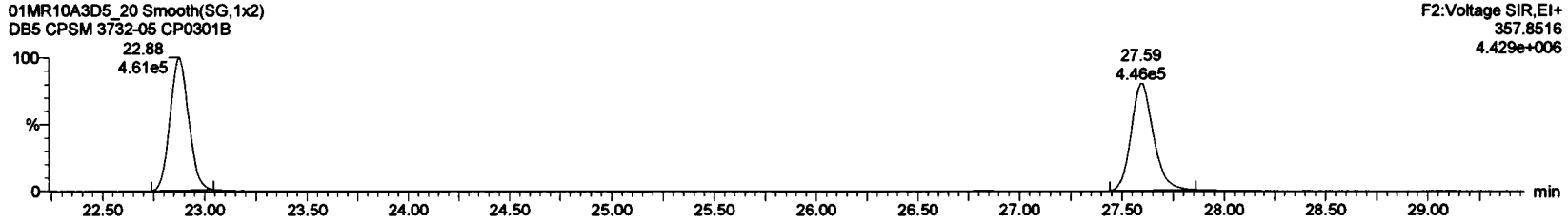
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

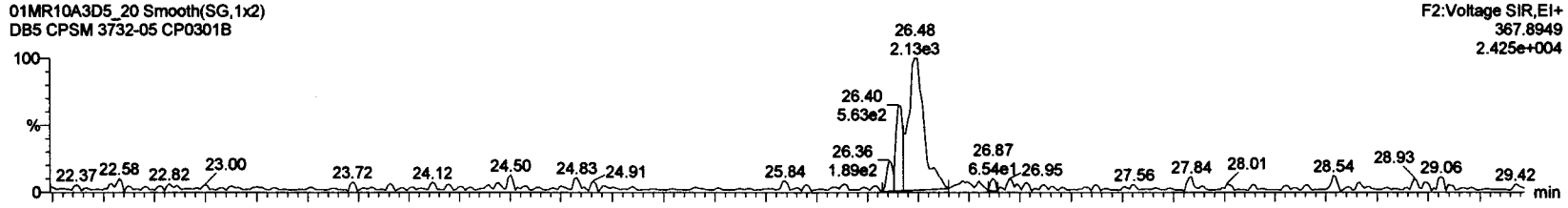
Name: 01MR10A3D5_20, Date: 02-Mar-2010, Time: 09:27:11, ID: CP0301B, Description: DB5 CPSM 3732-05

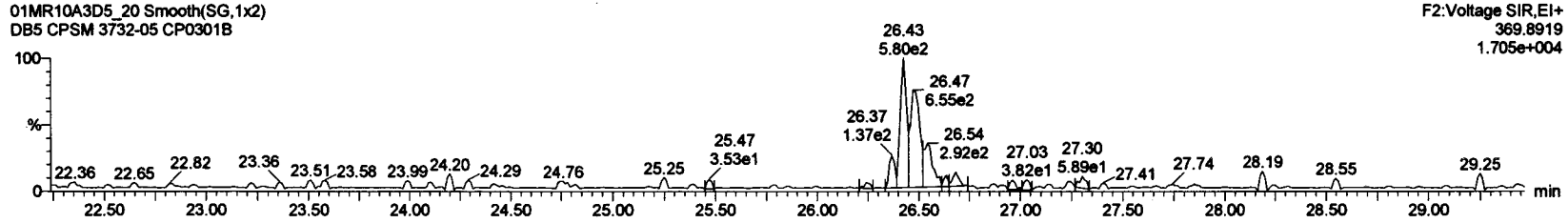
PeCDDs





13C-PeCDD





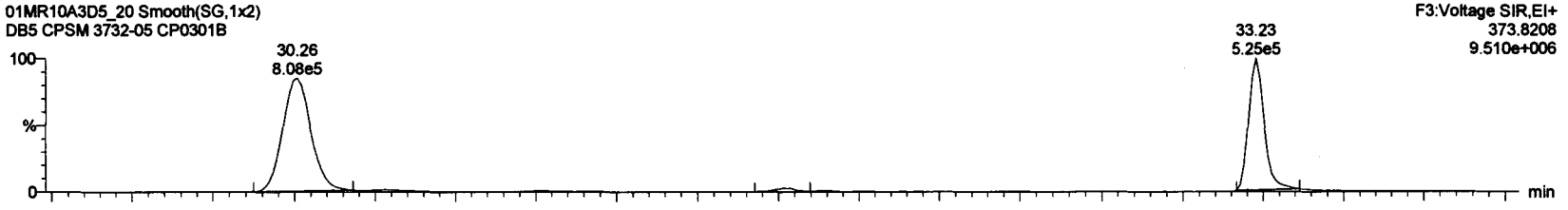
Quantify Sample Report **MassLynx 4.1**

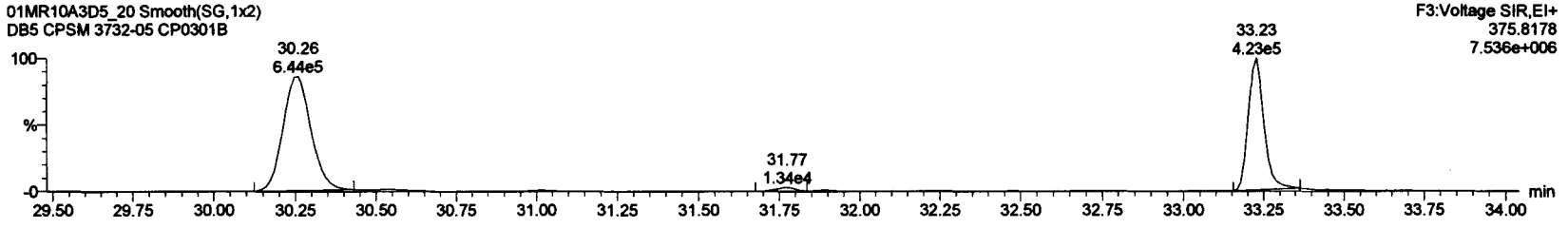
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

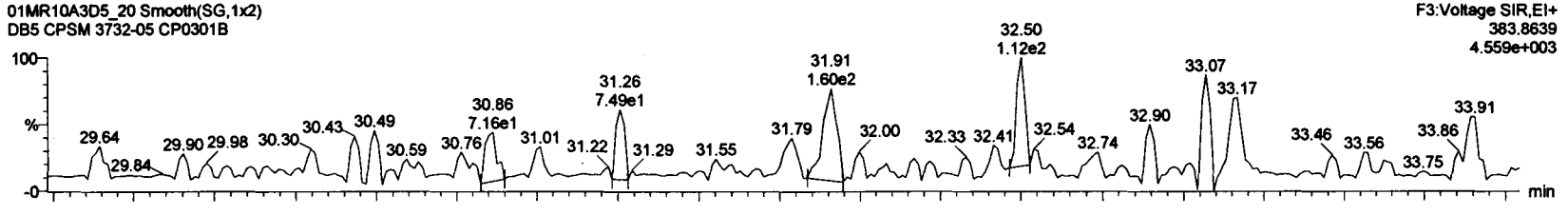
Name: 01MR10A3D5_20, Date: 02-Mar-2010, Time: 09:27:11, ID: CP0301B, Description: DB5 CPSM 3732-05

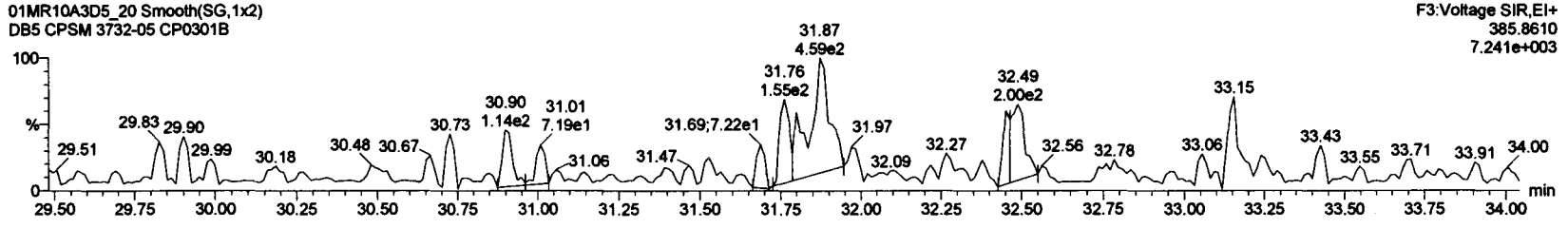
HxCDFs





13C-HxCDFs





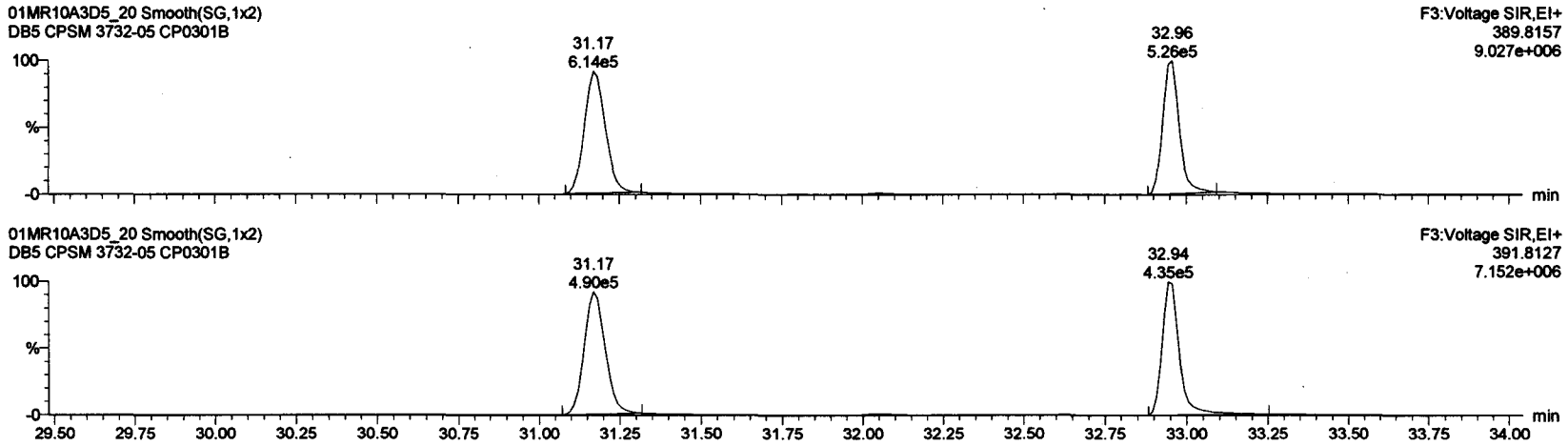
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

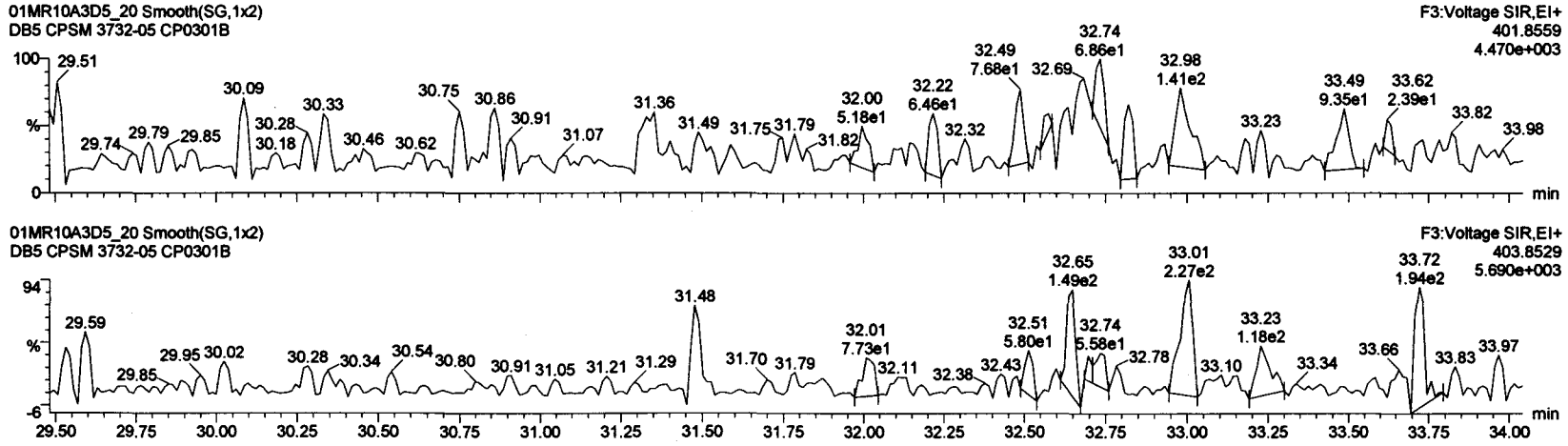
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_20, Date: 02-Mar-2010, Time: 09:27:11, ID: CP0301B, Description: DB5 CPSM 3732-05

HxCDDs



13C-HxCDDs



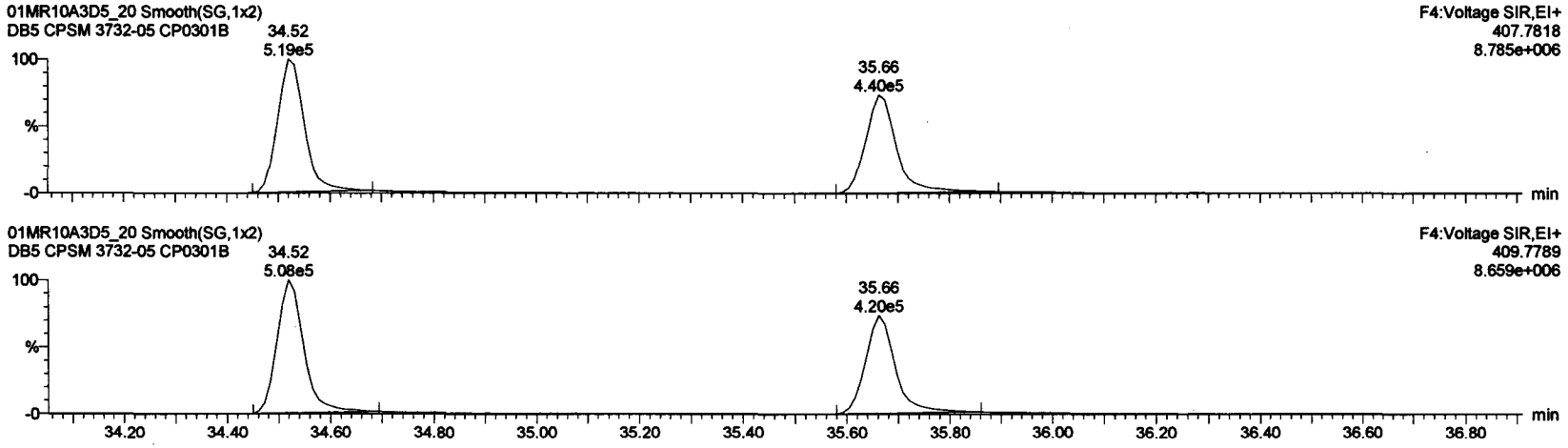
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

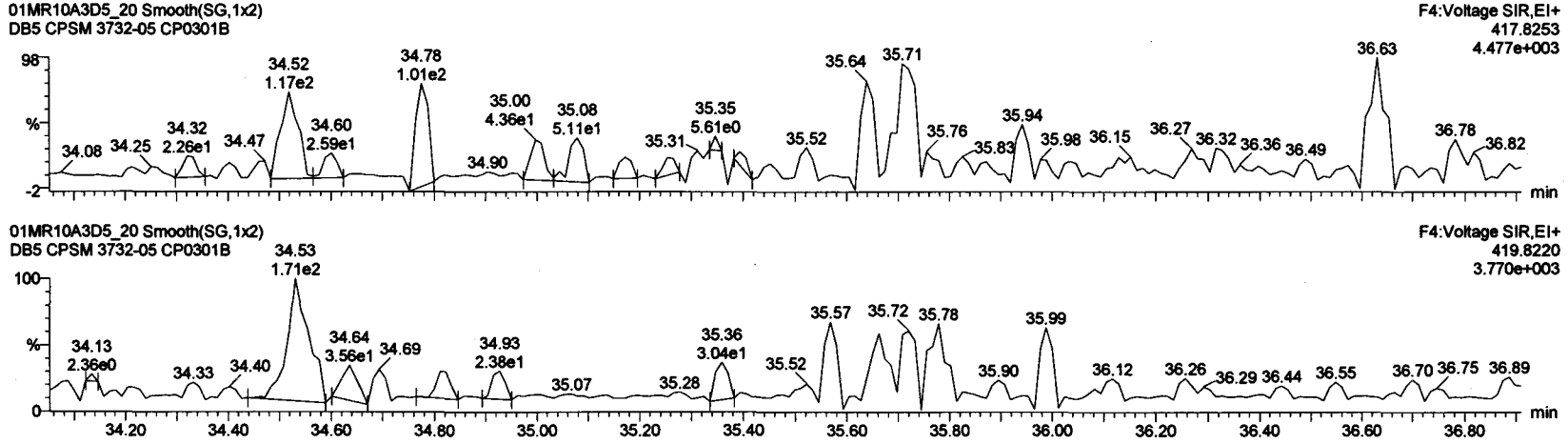
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_20, Date: 02-Mar-2010, Time: 09:27:11, ID: CP0301B, Description: DB5 CPSM 3732-05

HpCDFs



13C-HpCDFs



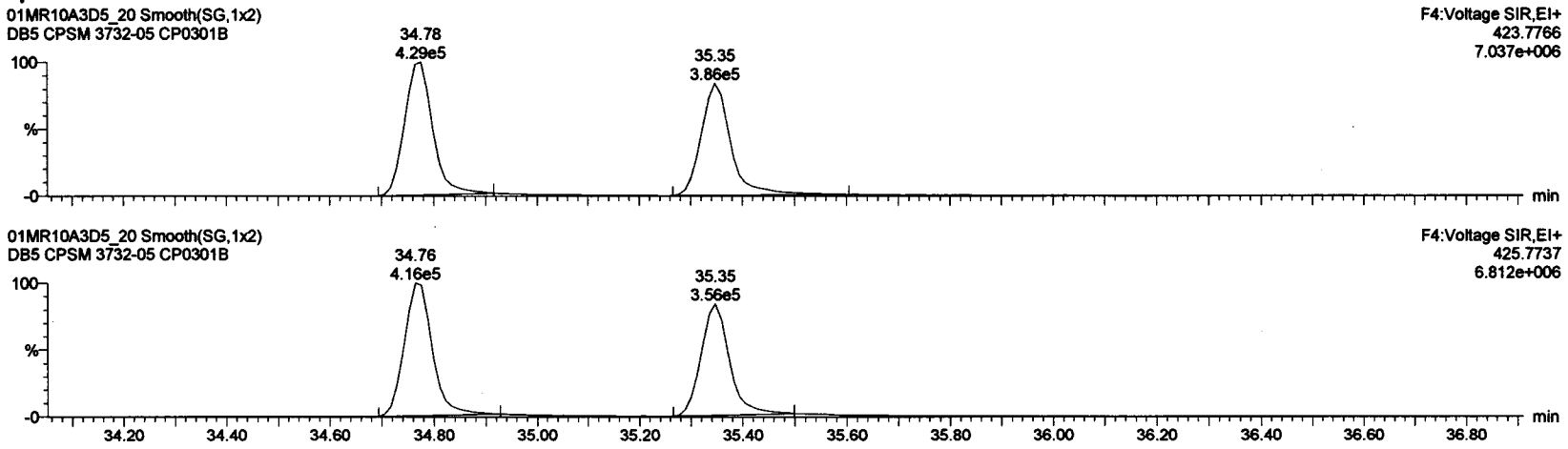
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

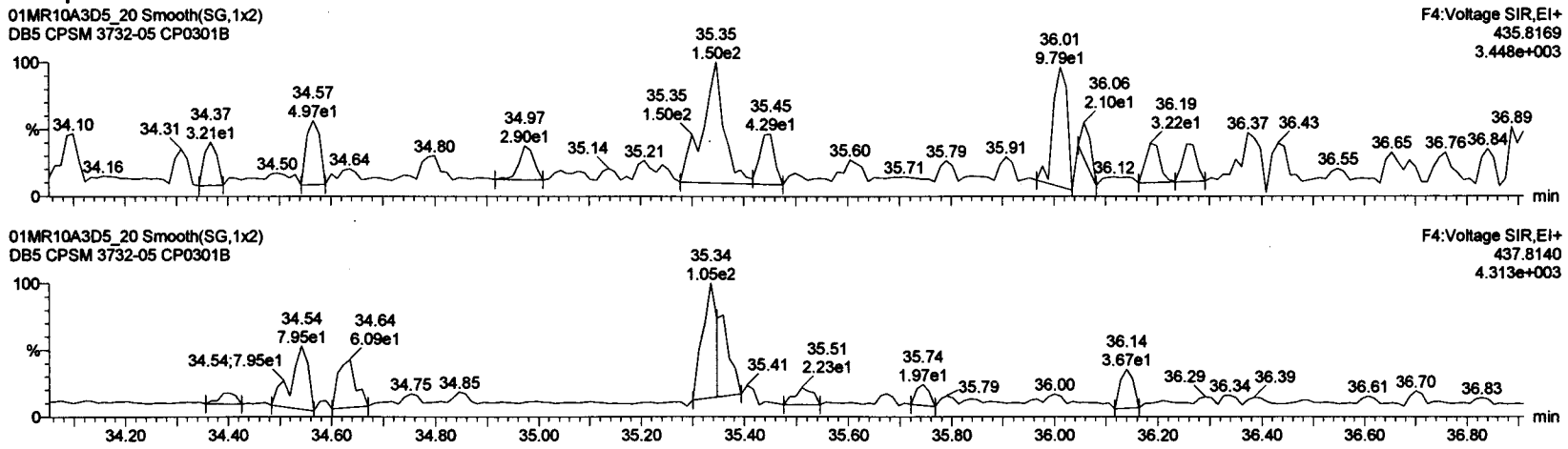
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_20, Date: 02-Mar-2010, Time: 09:27:11, ID: CP0301B, Description: DB5 CPSM 3732-05

HpCDDs



13C-HpCDD



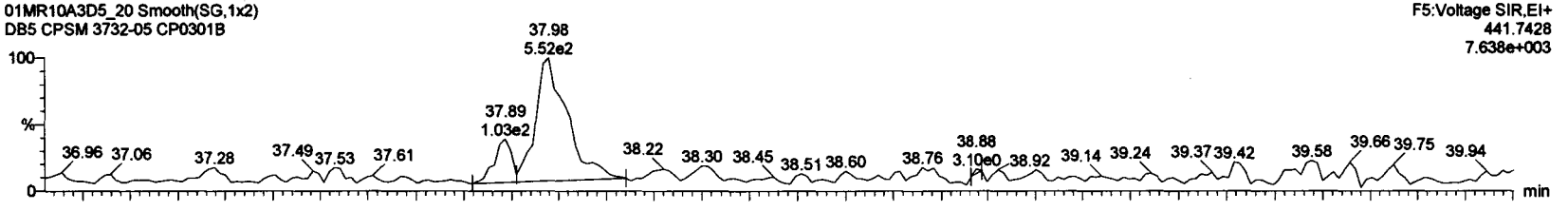
Quantify Sample Report **MassLynx 4.1**

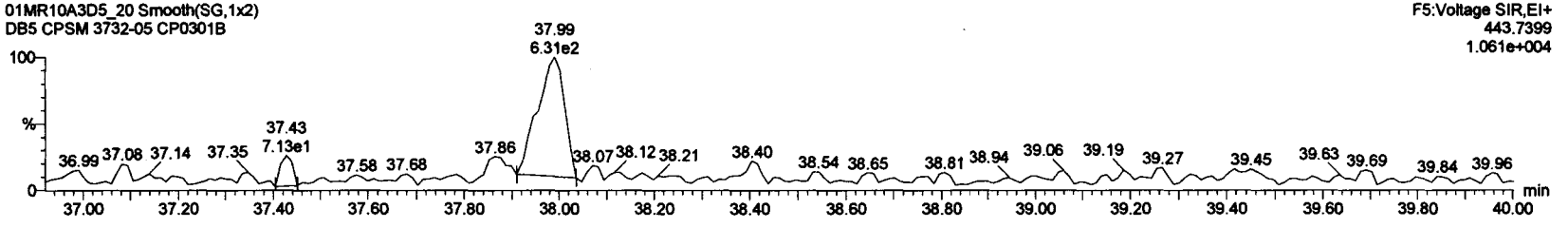
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

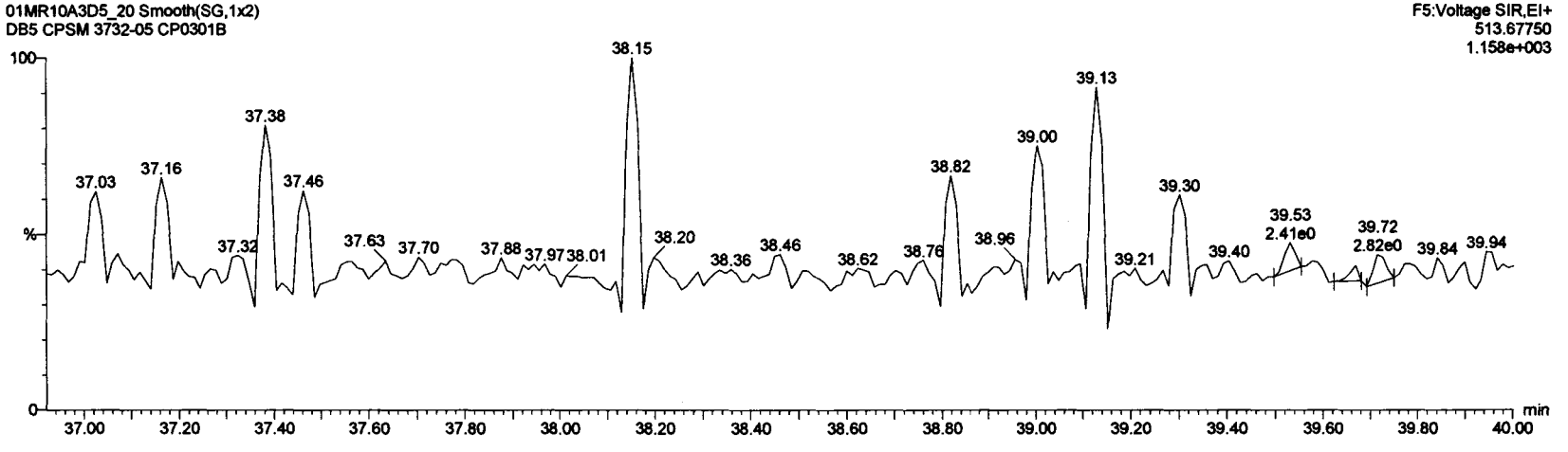
Name: 01MR10A3D5_20, Date: 02-Mar-2010, Time: 09:27:11, ID: CP0301B, Description: DB5 CPSM 3732-05

OCDFs





OCDF PCDPE



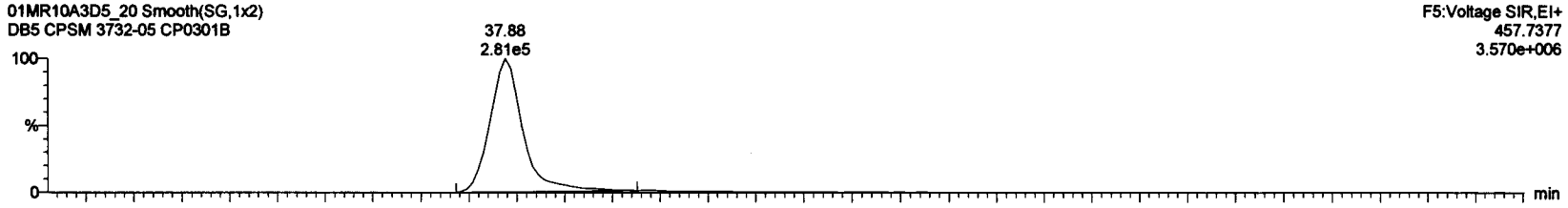
Quantify Sample Report **MassLynx 4.1**

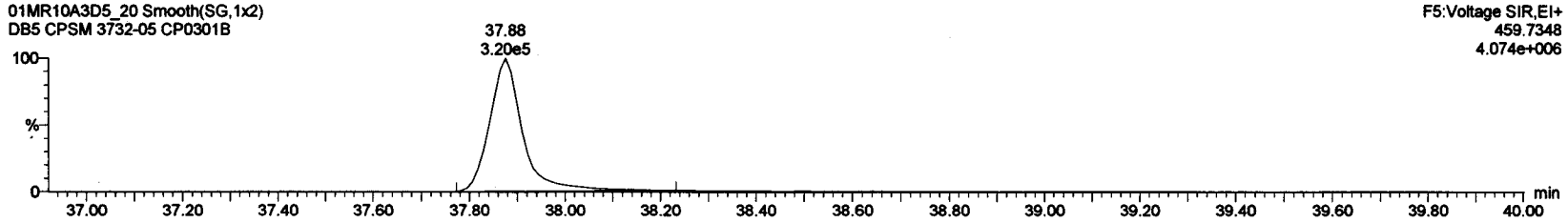
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

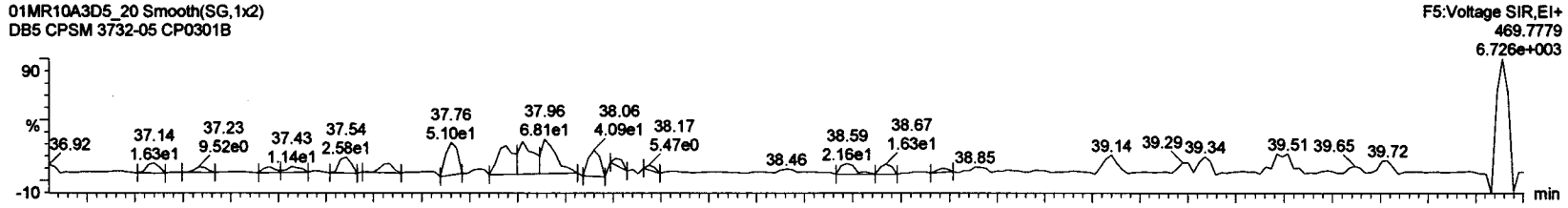
Name: 01MR10A3D5_20, Date: 02-Mar-2010, Time: 09:27:11, ID: CP0301B, Description: DB5 CPSM 3732-05

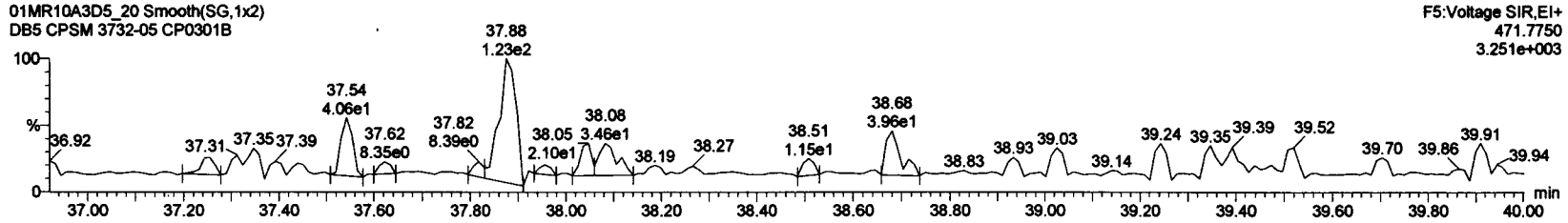
OCDD





13C-OCDD





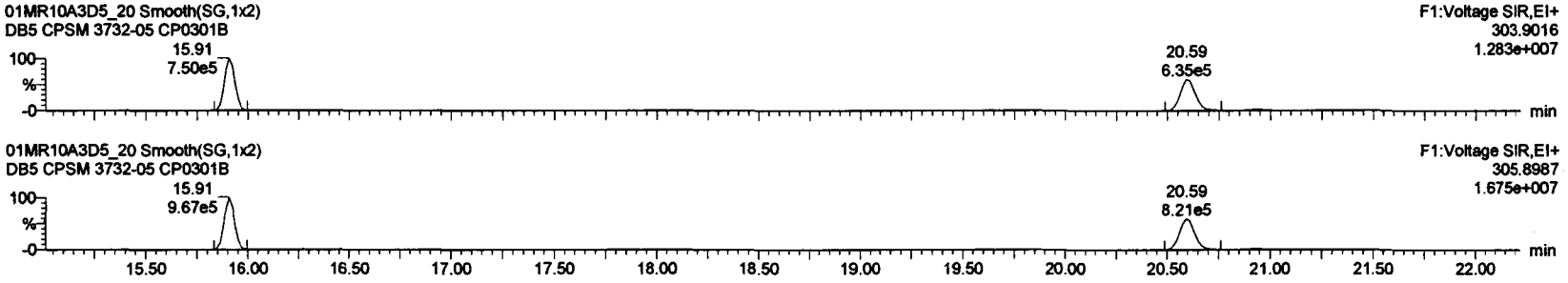
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

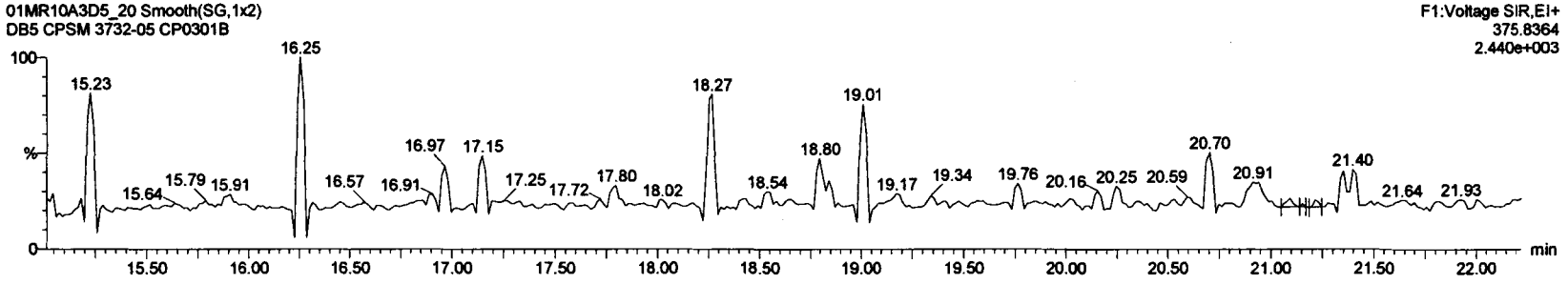
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_20, Date: 02-Mar-2010, Time: 09:27:11, ID: CP0301B, Description: DB5 CPSM 3732-05

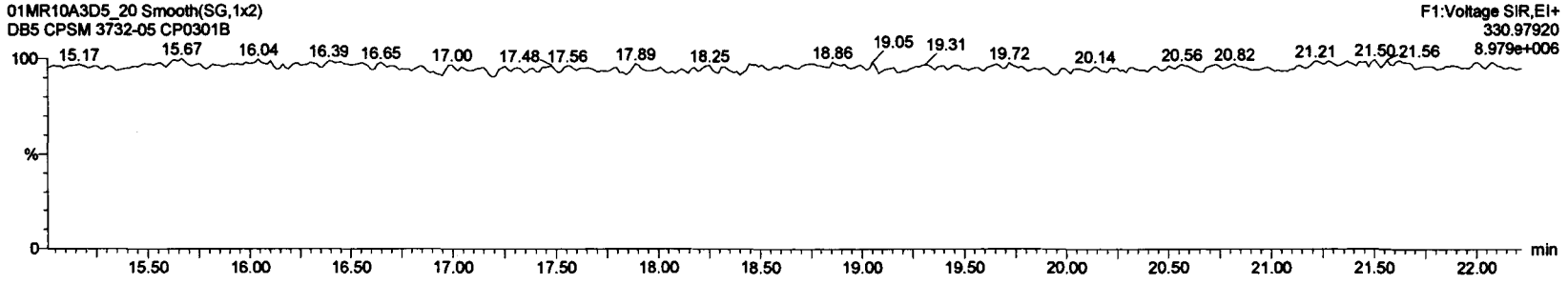
TCDFs



TCDF PCDPE



Function 1 PFK



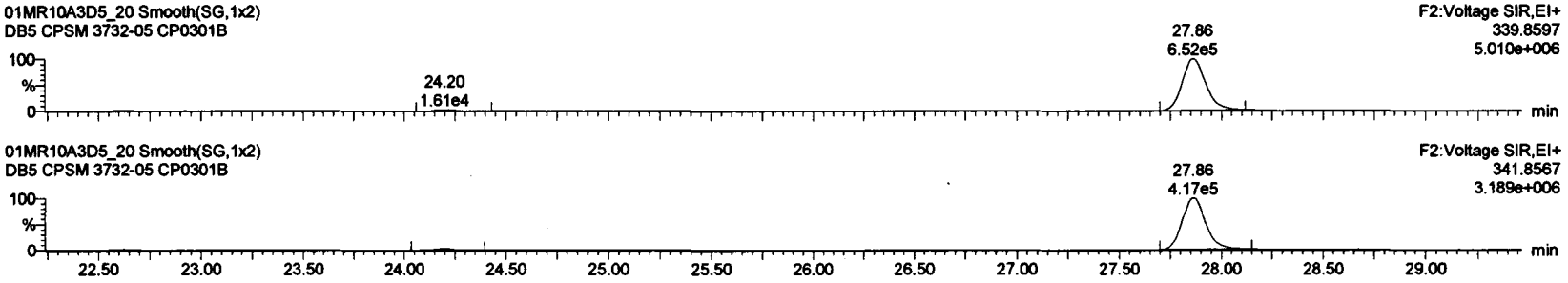
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

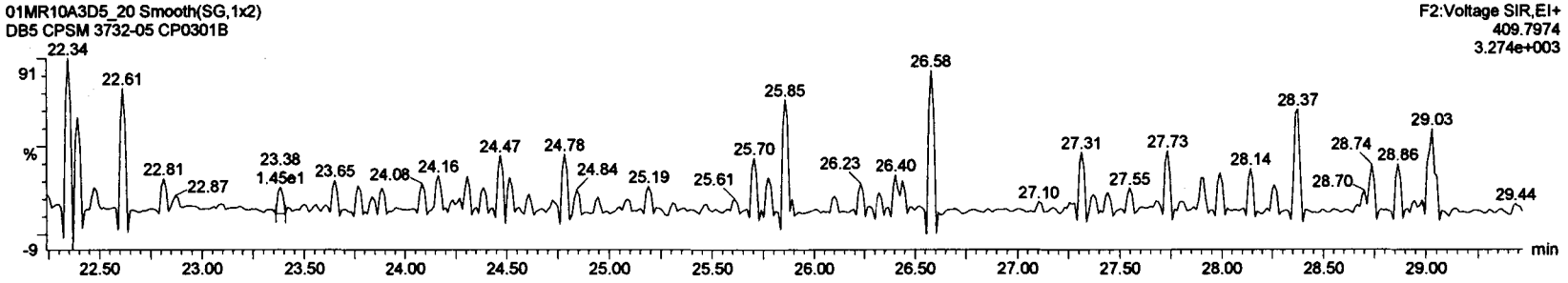
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_20, Date: 02-Mar-2010, Time: 09:27:11, ID: CP0301B, Description: DB5 CPSM 3732-05

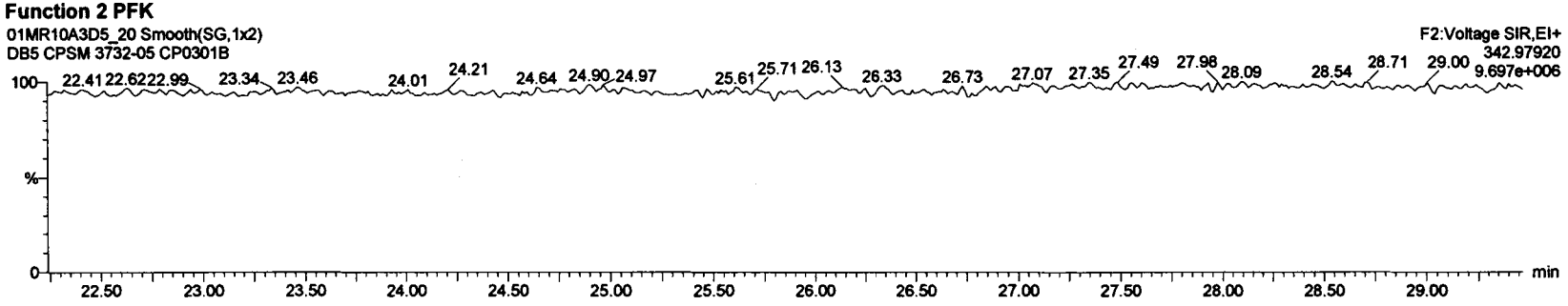
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



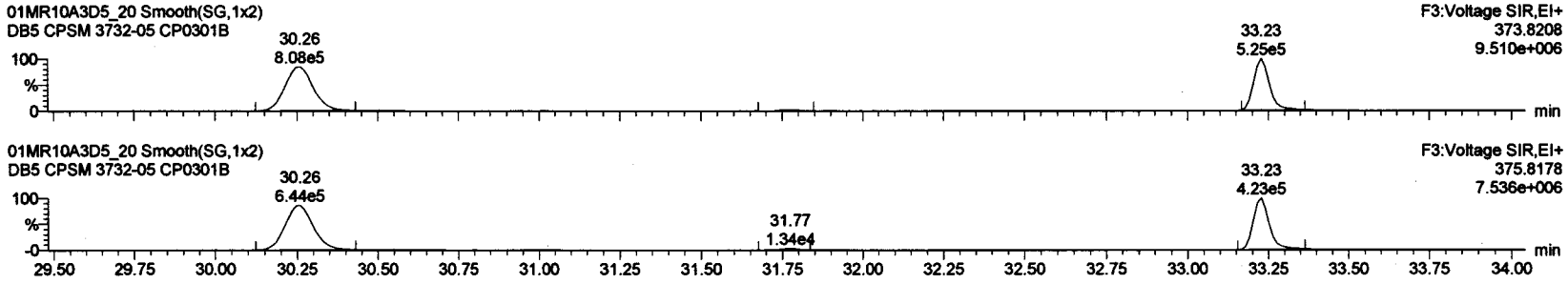
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

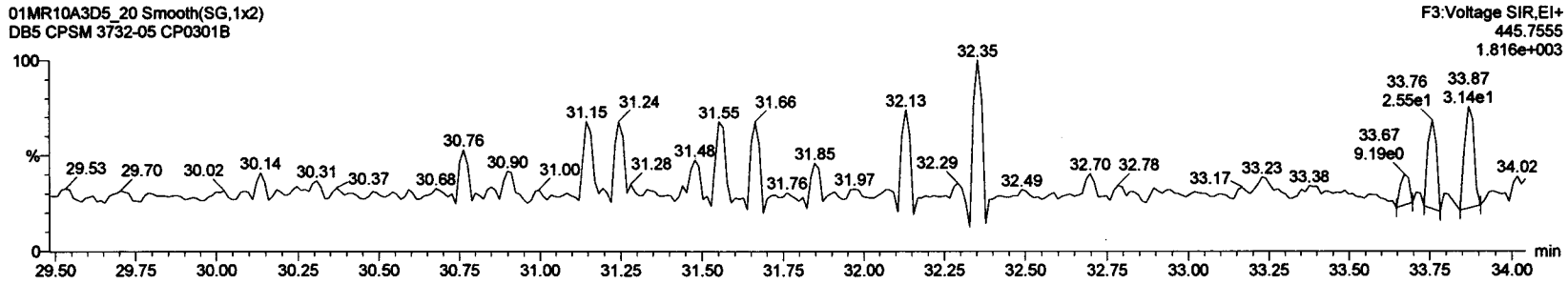
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_20, Date: 02-Mar-2010, Time: 09:27:11, ID: CP0301B, Description: DB5 CPSM 3732-05

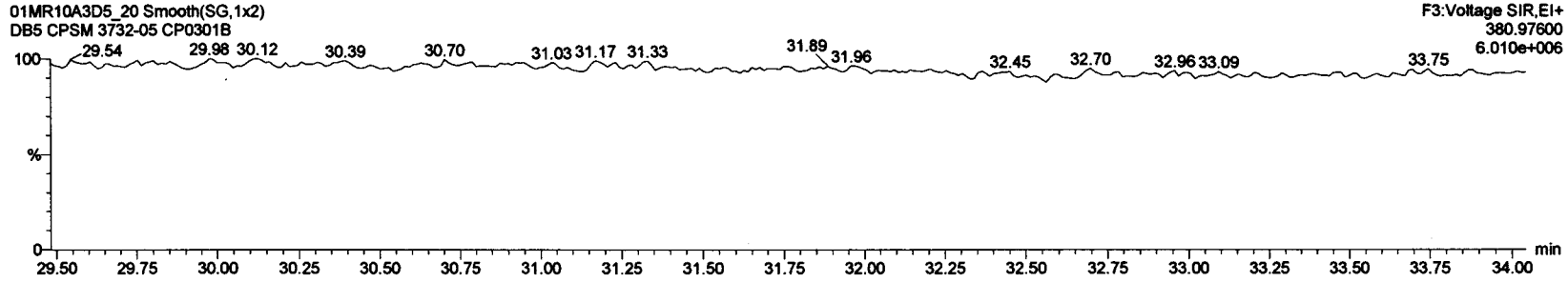
HxCDFs



HxCDF PCDPE



Function 3 PFK



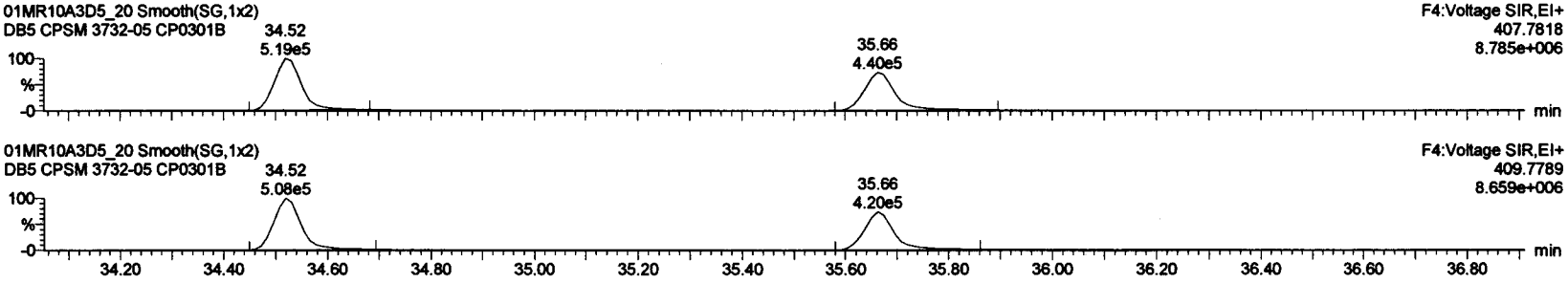
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

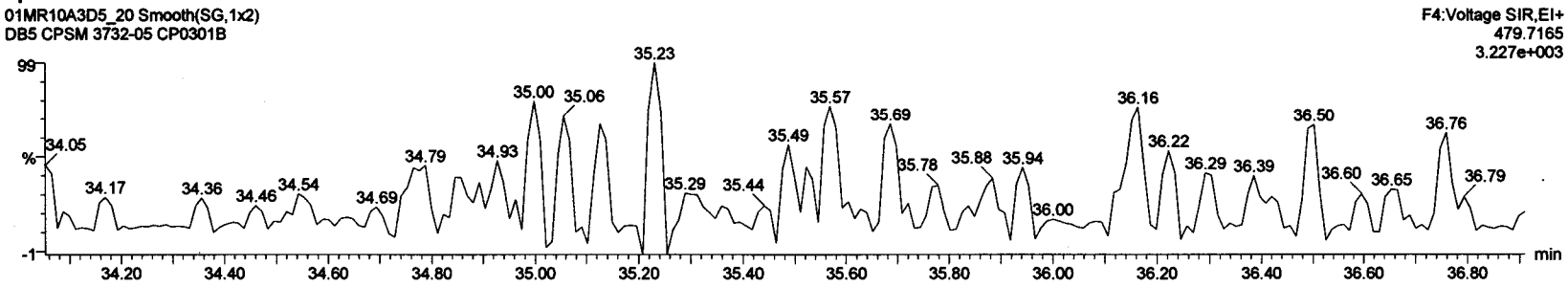
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_20, Date: 02-Mar-2010, Time: 09:27:11, ID: CP0301B, Description: DB5 CPSM 3732-05

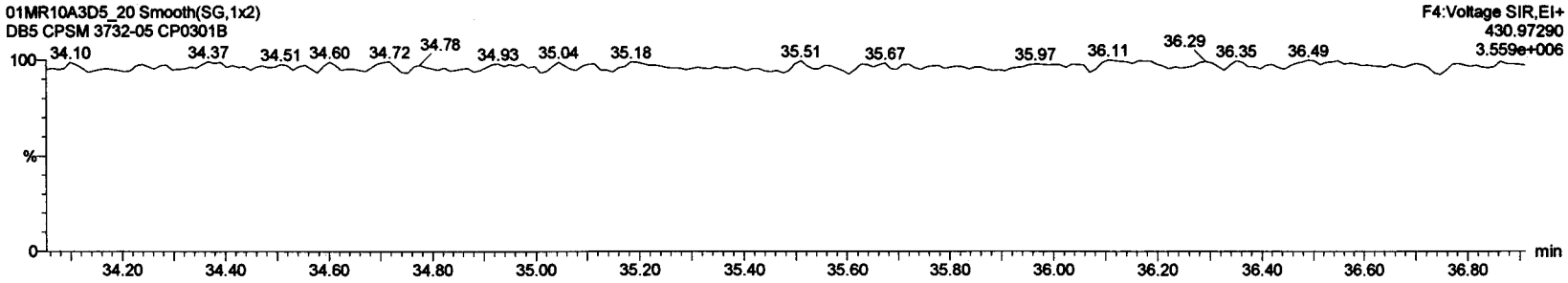
HpCDFs



HpCDF PCDPE



Function 4 PFK



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

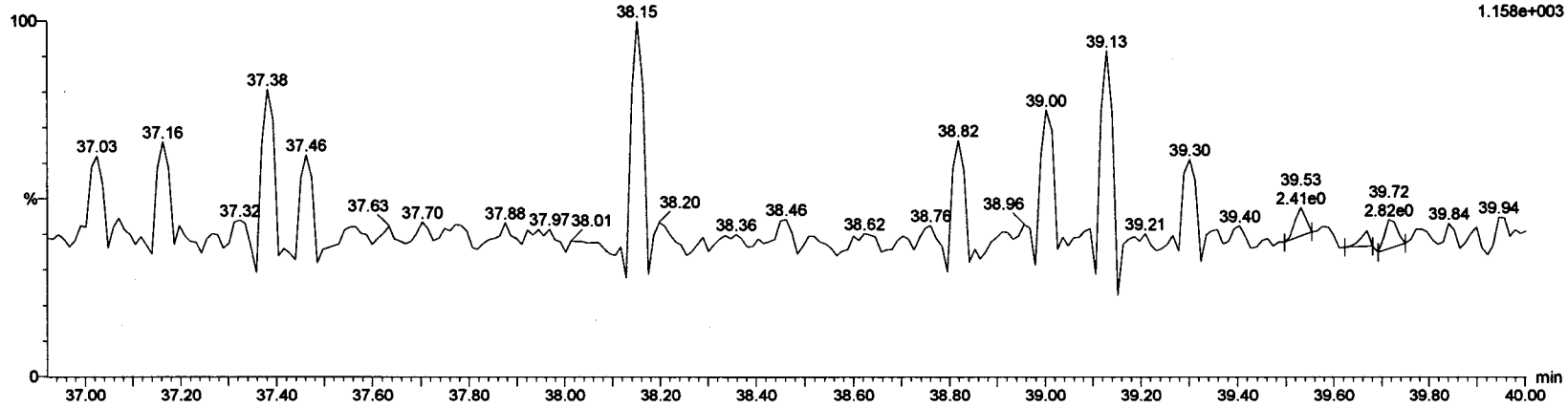
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_20, Date: 02-Mar-2010, Time: 09:27:11, ID: CP0301B, Description: DB5 CPSM 3732-05

OCDF PCDPE

01MR10A3D5_20 Smooth(SG,1x2)
DB5 CPSM 3732-05 CP0301B

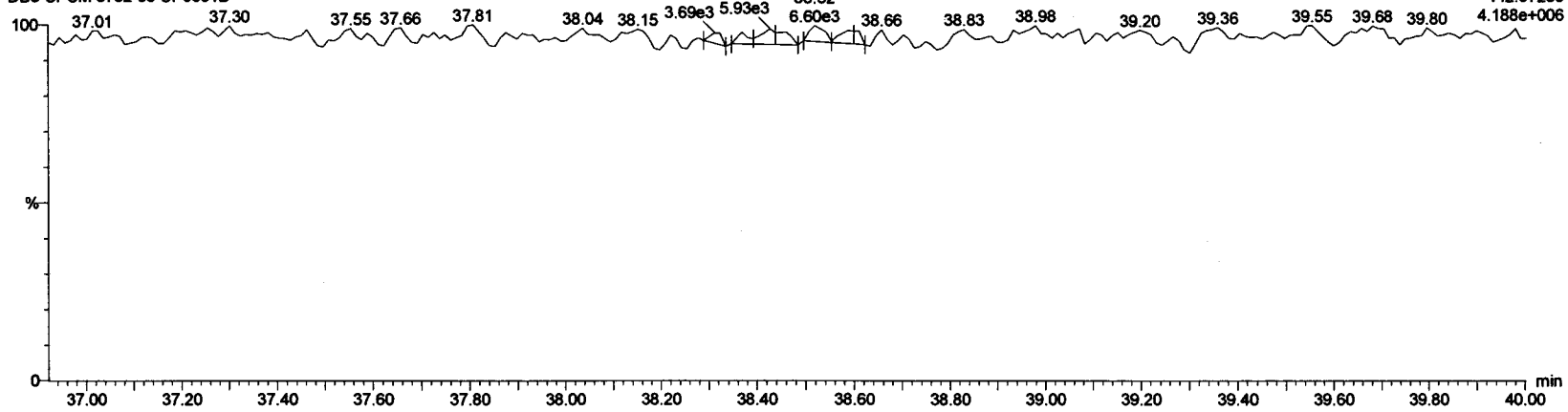
F5:Voltage SIR,EI+
513.67750
1.158e+003



Function 5 PFK

01MR10A3D5_20 Smooth(SG,1x2)
DB5 CPSM 3732-05 CP0301B

F5:Voltage SIR,EI+
442.97280
4.188e+006



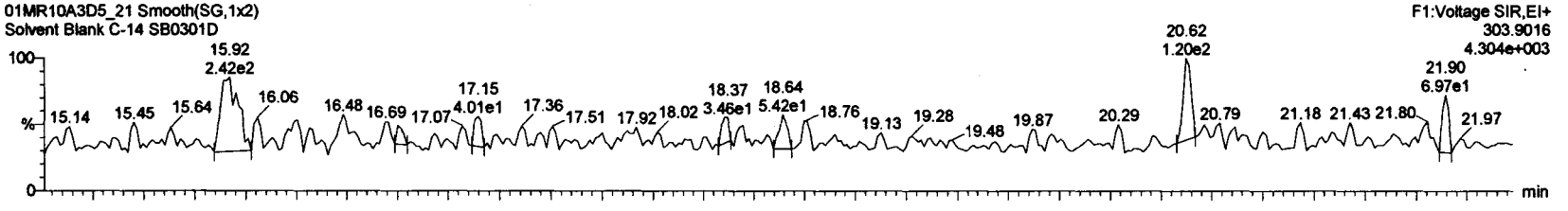
Quantify Sample Report **MassLynx 4.1**

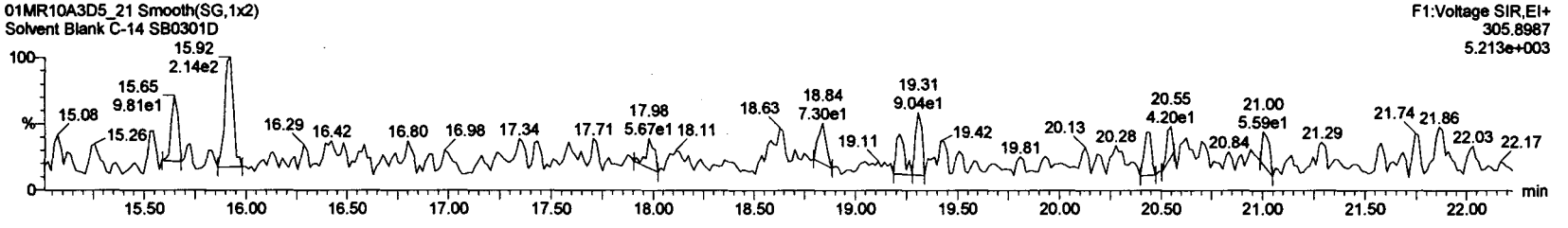
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

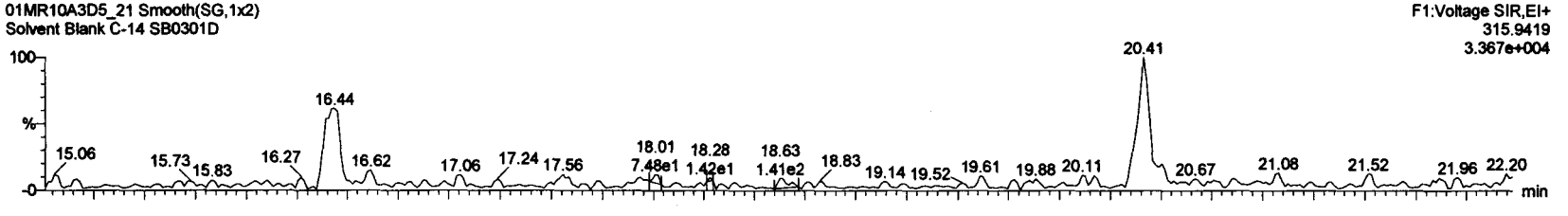
Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

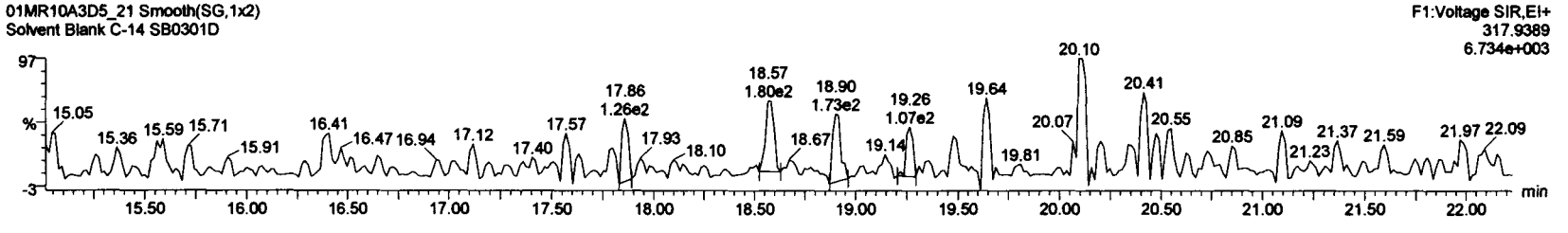
TCDFs





13C-TCDF





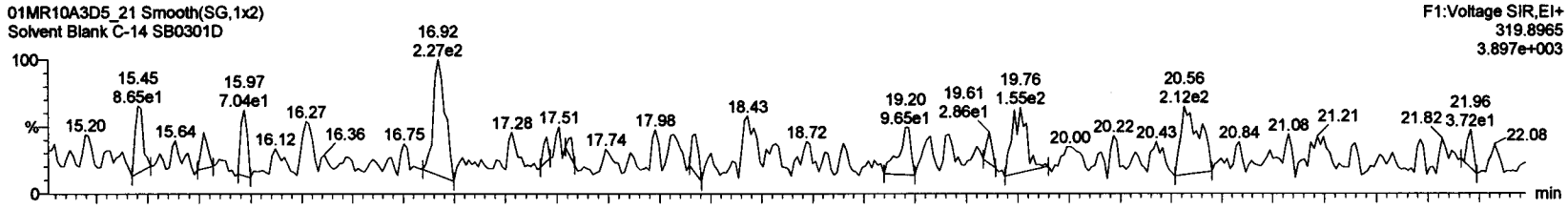
Quantify Sample Report **MassLynx 4.1**

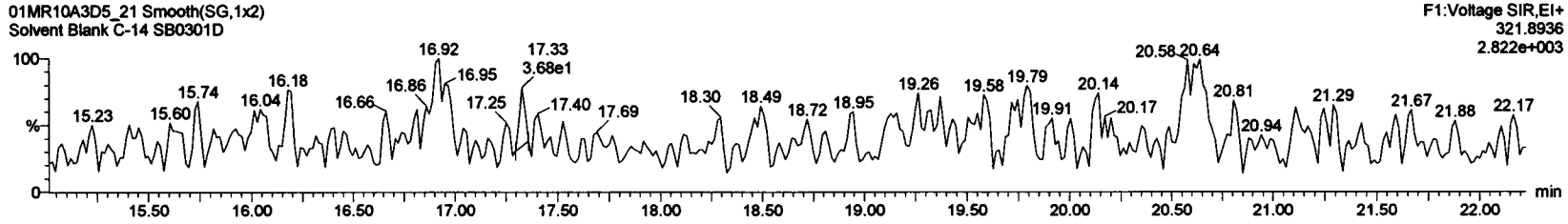
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

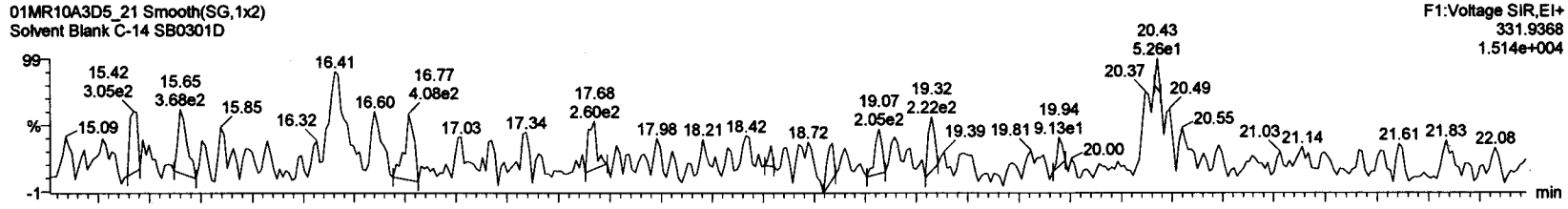
Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

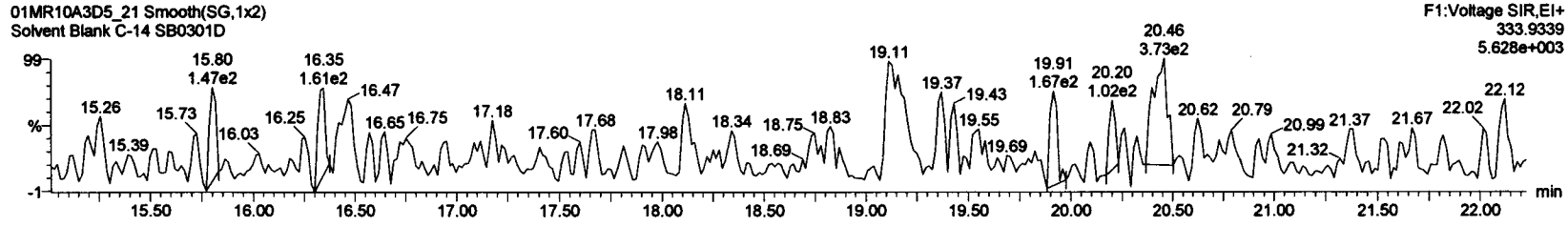
TCDDs





13C-TCDDs





Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

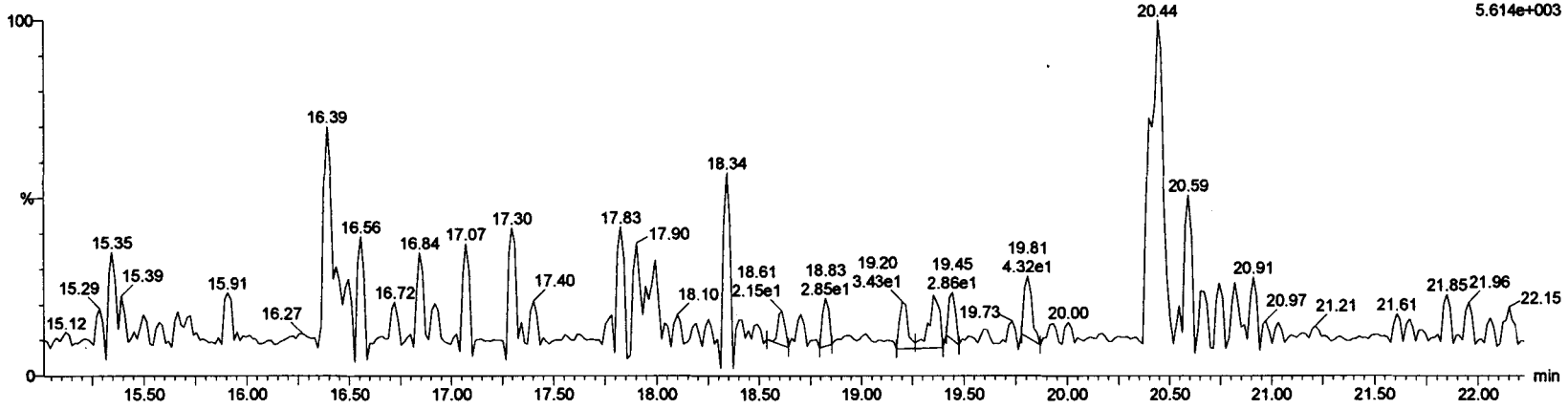
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

37CL-2,3,7,8-TCDD

01MR10A3D5_21 Smooth(SG,1x2)
Solvent Blank C-14 SB0301D

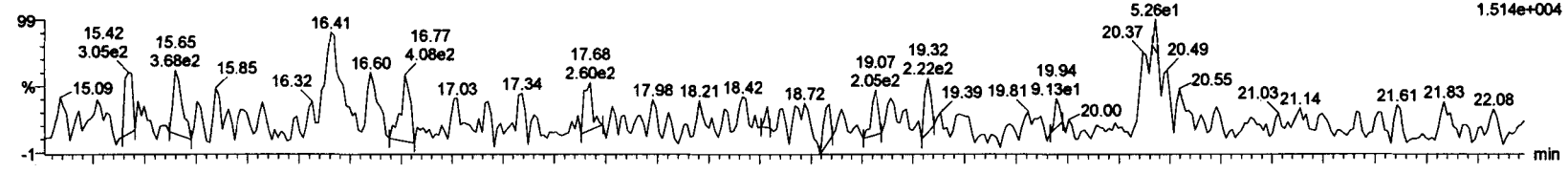
F1:Voltage SIR,EI+
327.8847
5.614e+003



13C-TCDDs

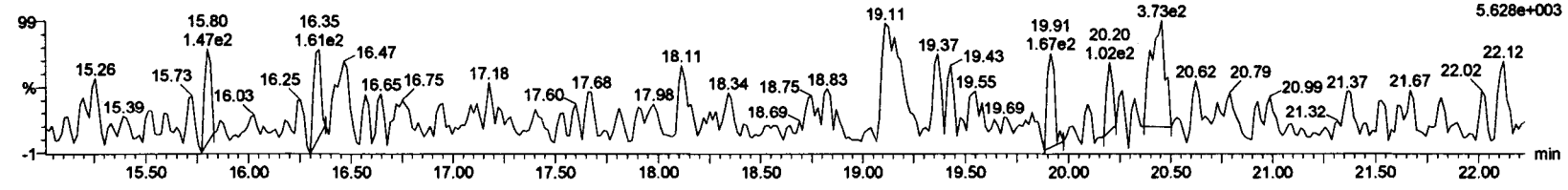
01MR10A3D5_21 Smooth(SG,1x2)
Solvent Blank C-14 SB0301D

F1:Voltage SIR,EI+
331.9368
1.514e+004



01MR10A3D5_21 Smooth(SG,1x2)
Solvent Blank C-14 SB0301D

F1:Voltage SIR,EI+
333.9339
5.628e+003



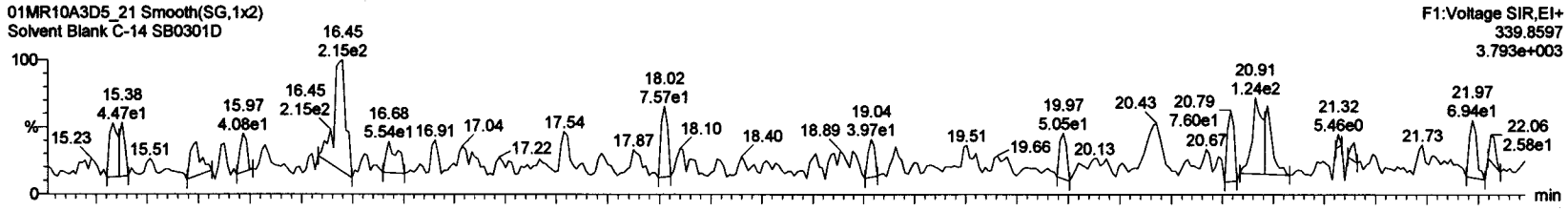
Quantify Sample Report **MassLynx 4.1**

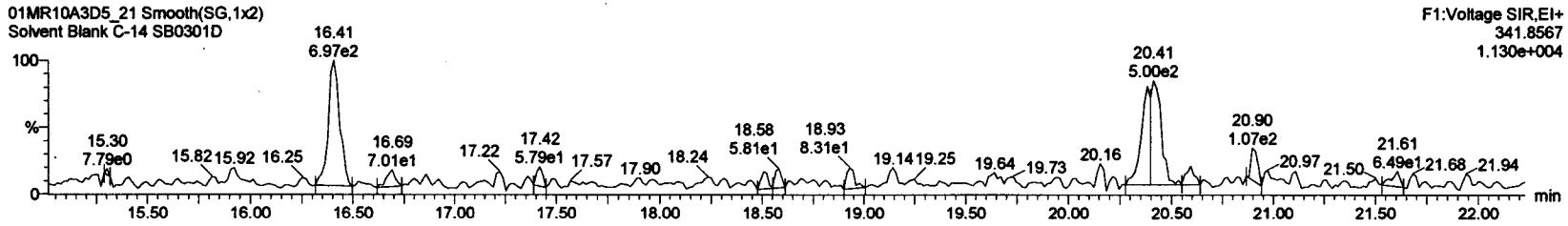
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

F1 PeCDFs





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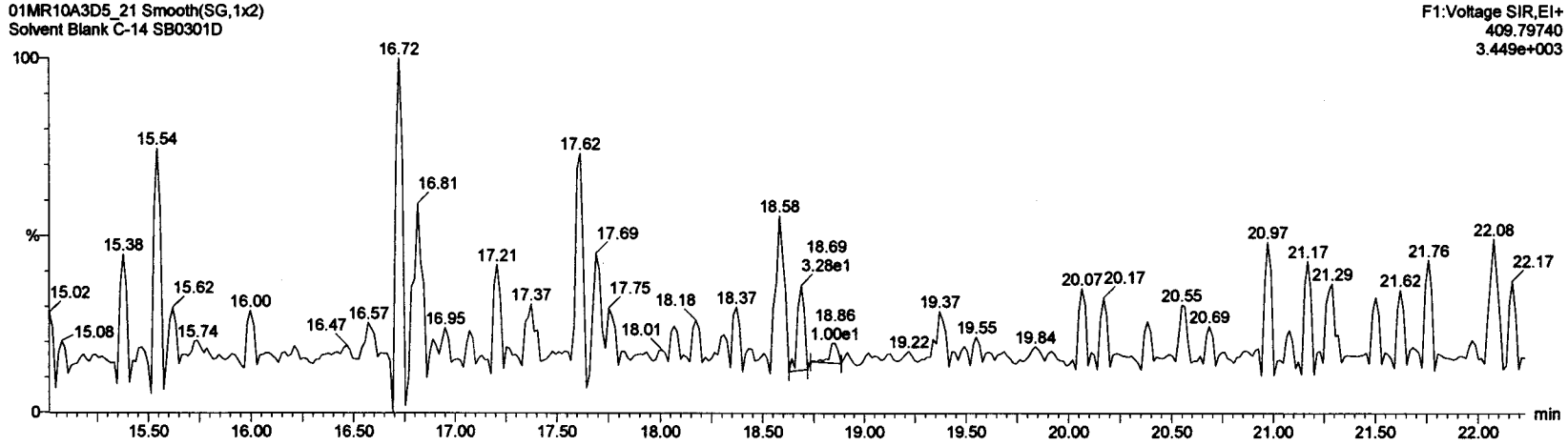


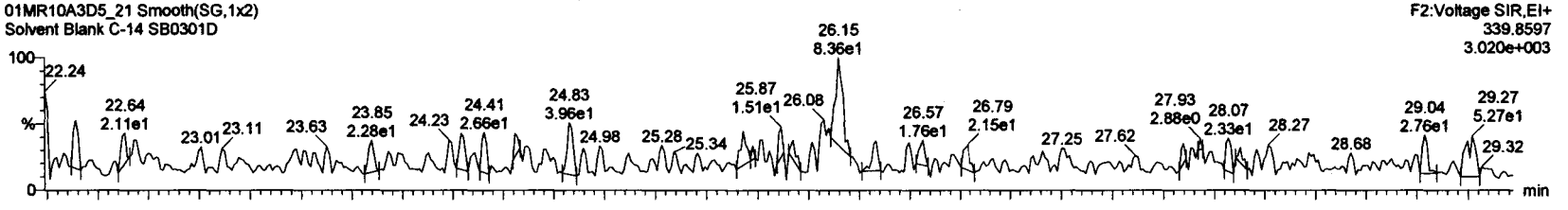
Quantify Sample Report **MassLynx 4.1**

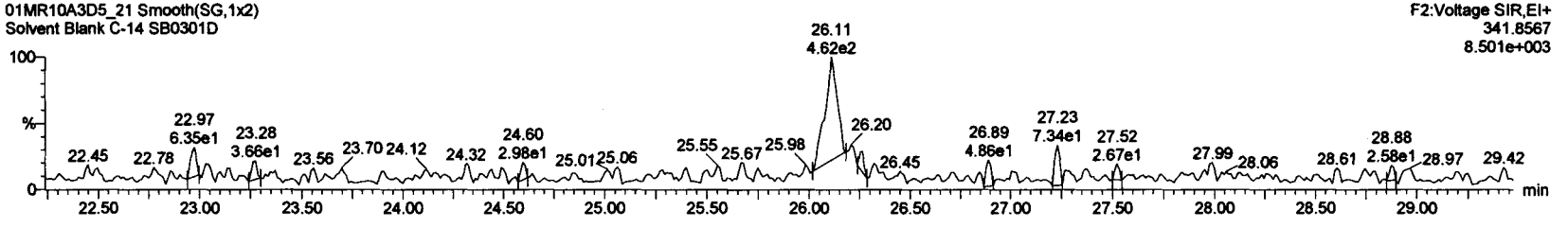
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

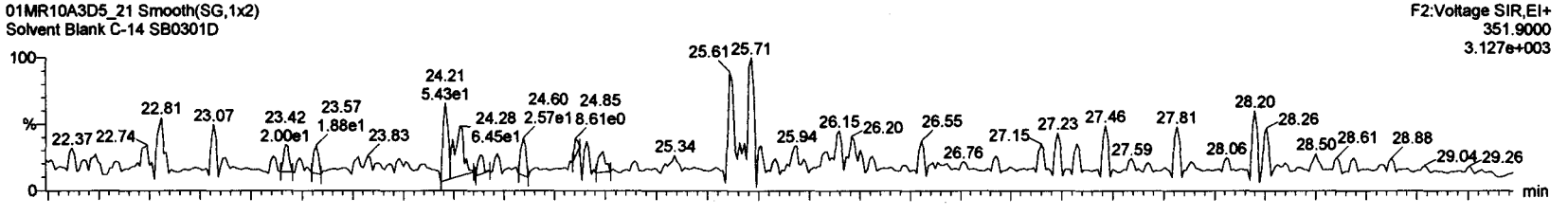
Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

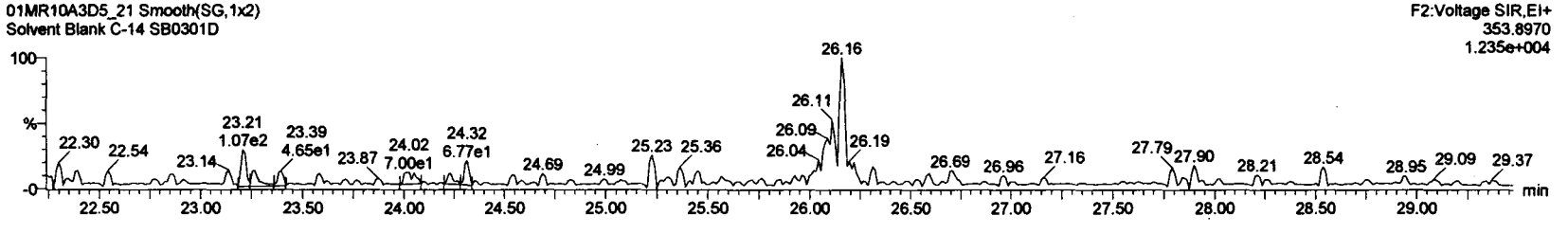
PeCDFs





13C-PeCDFs





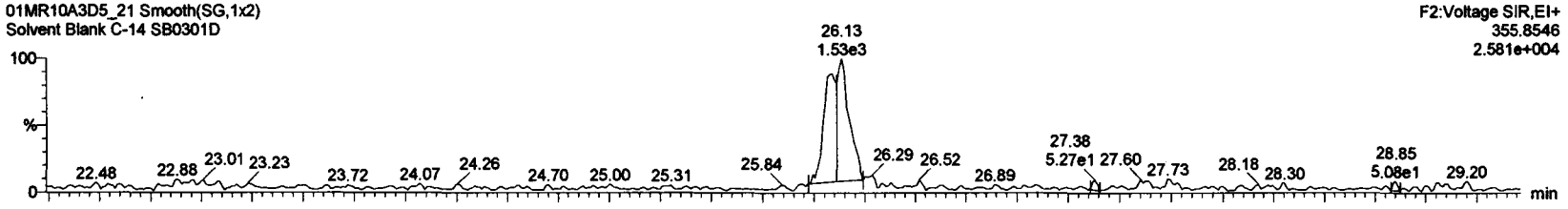
Quantify Sample Report **MassLynx 4.1**

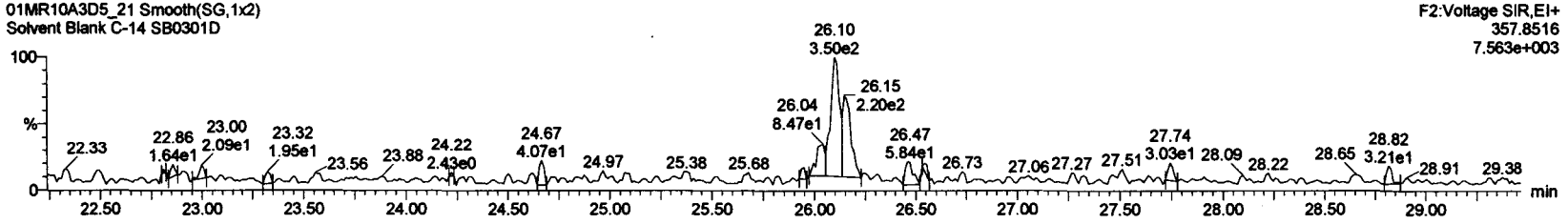
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

PeCDDs





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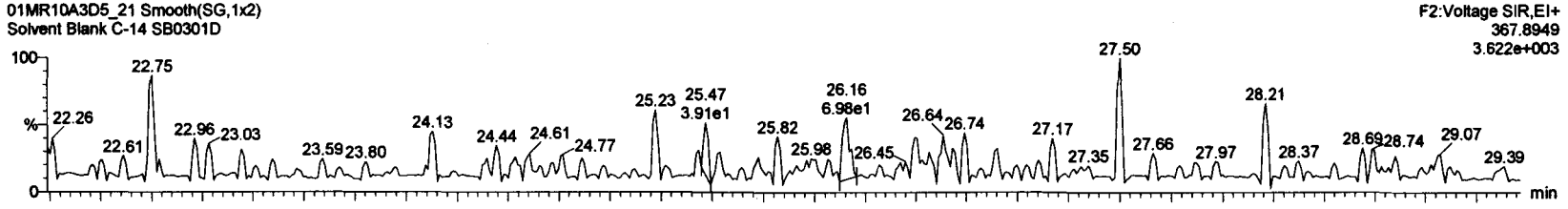
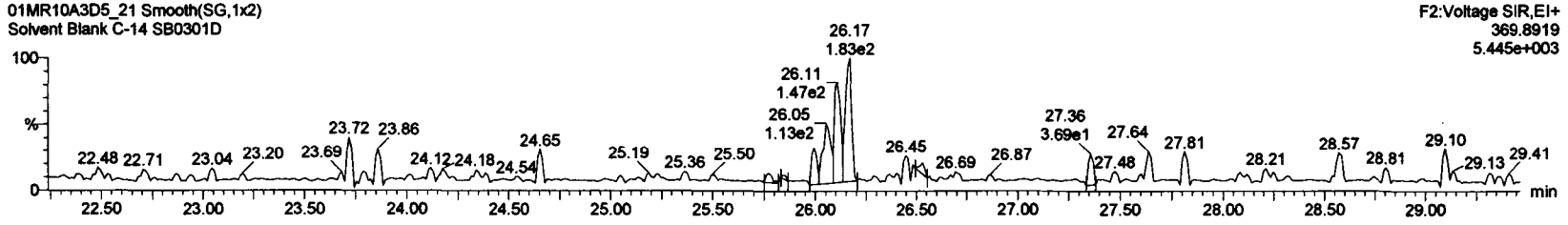




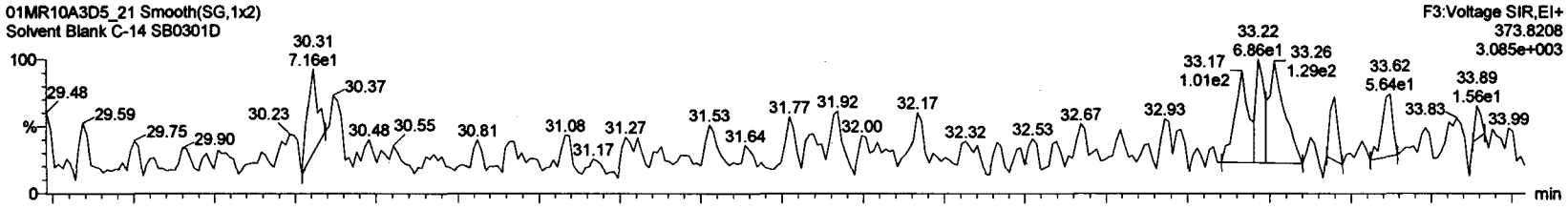
Quantify Sample Report **MassLynx 4.1**

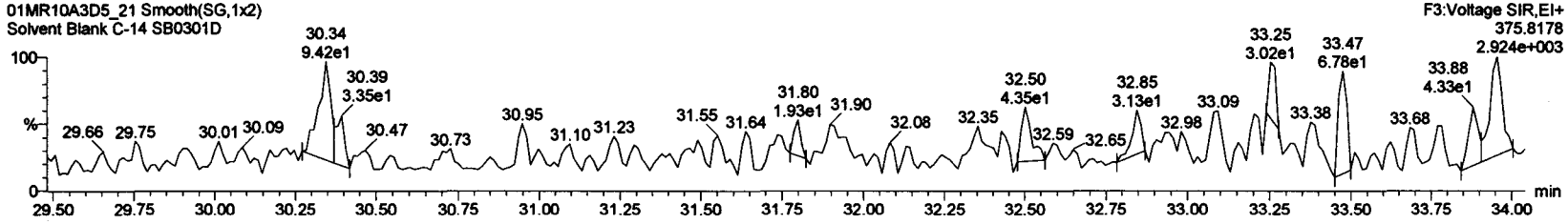
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

HxCDFs





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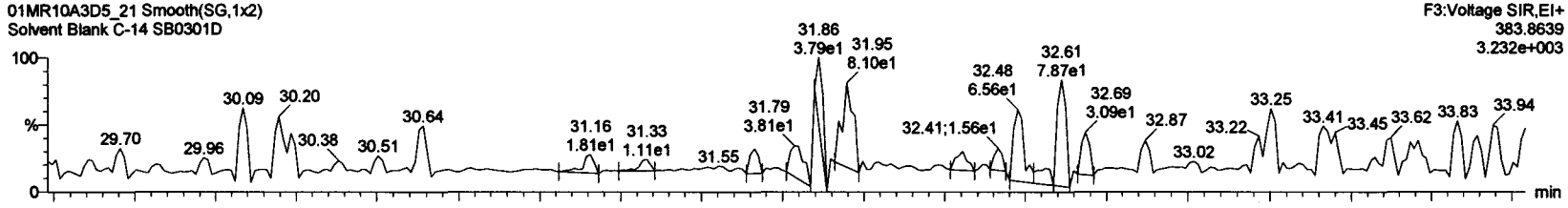
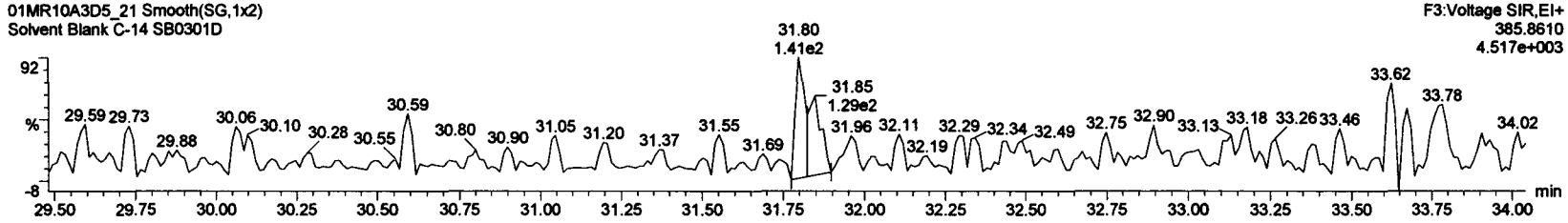




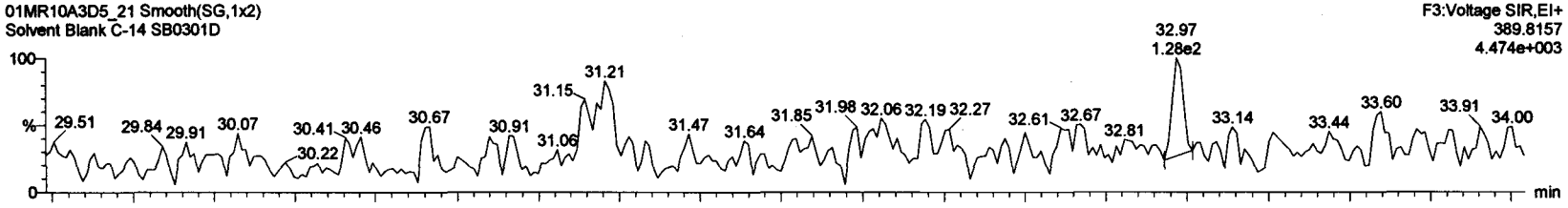
Quantify Sample Report **MassLynx 4.1**

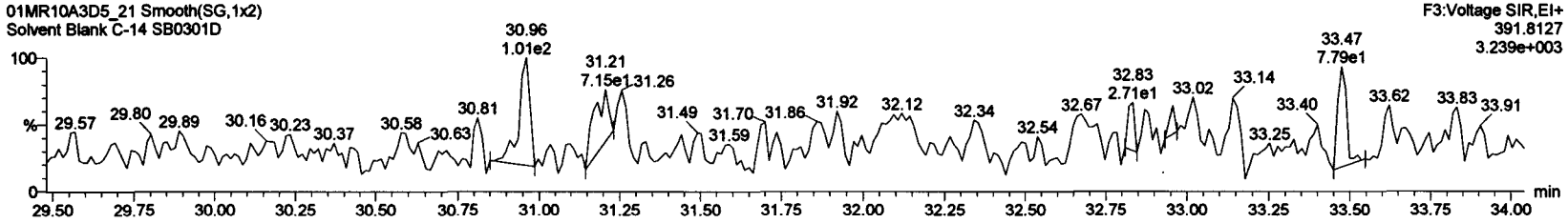
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

HxCDDs





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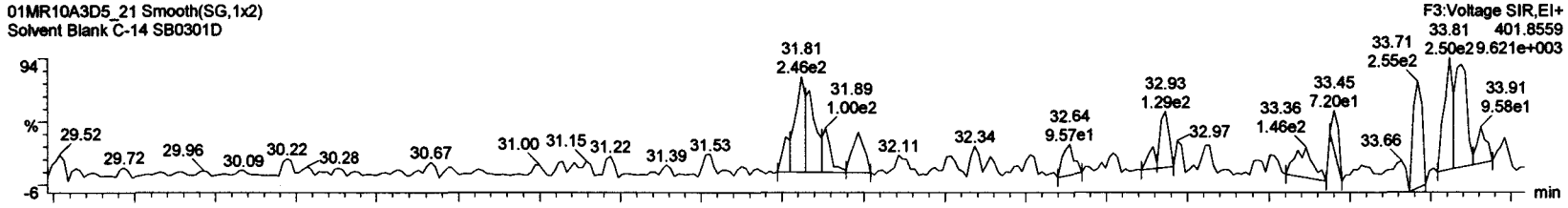
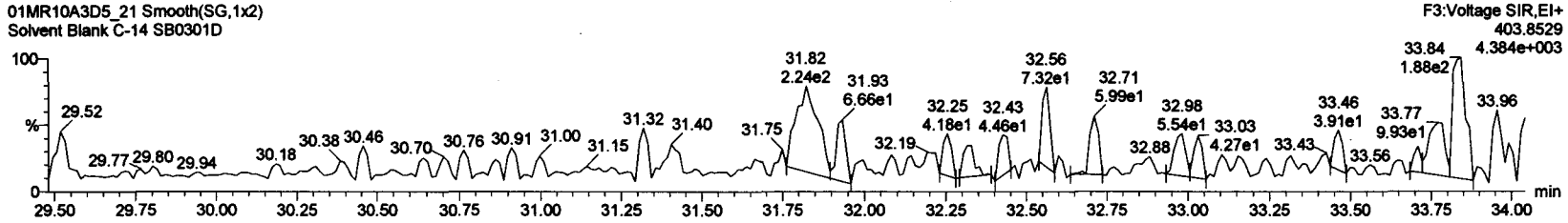




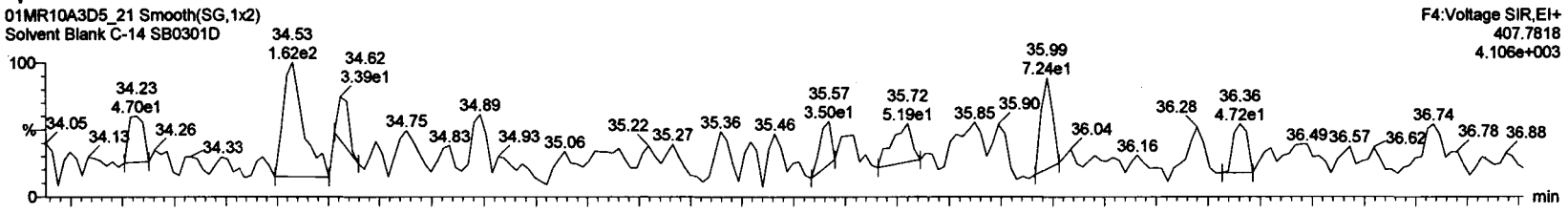
Quantify Sample Report **MassLynx 4.1**

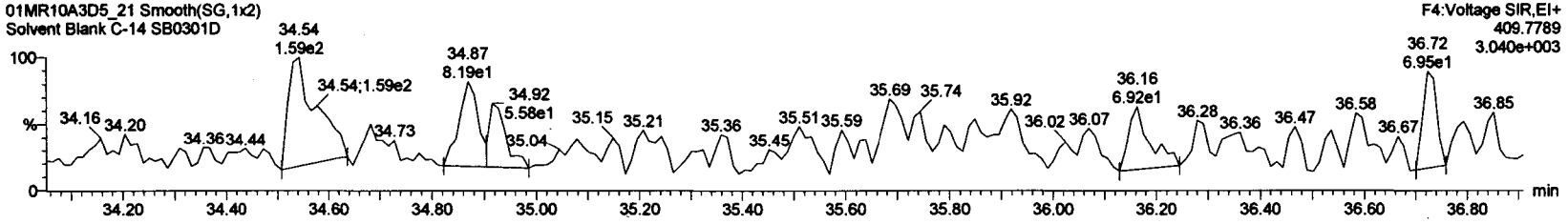
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

HpCDFs





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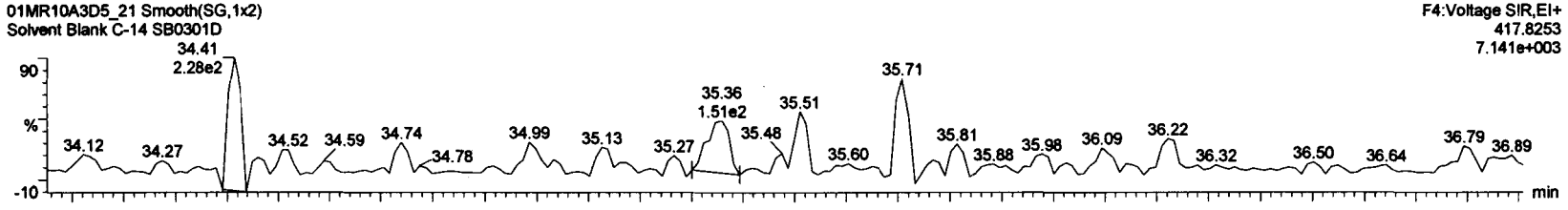
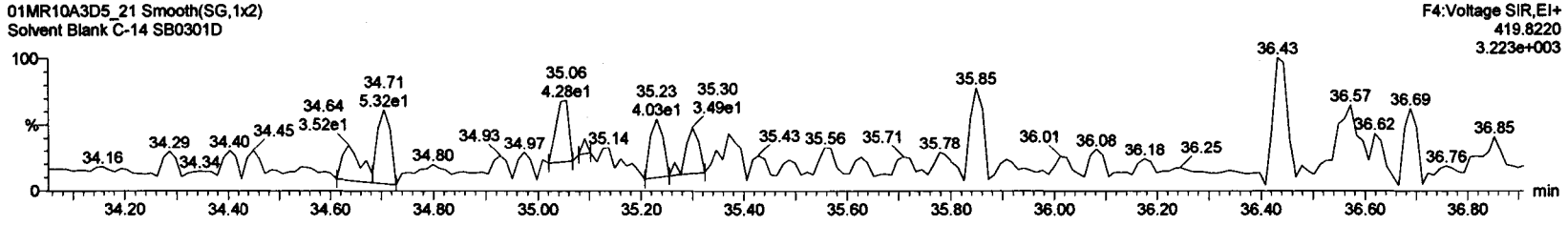




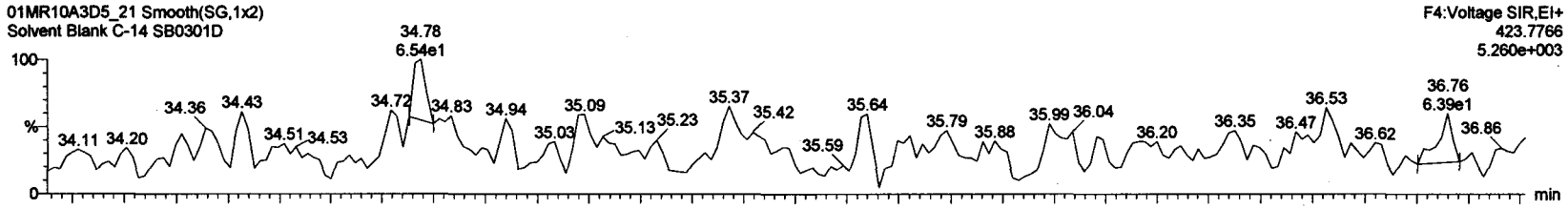
Quantify Sample Report **MassLynx 4.1**

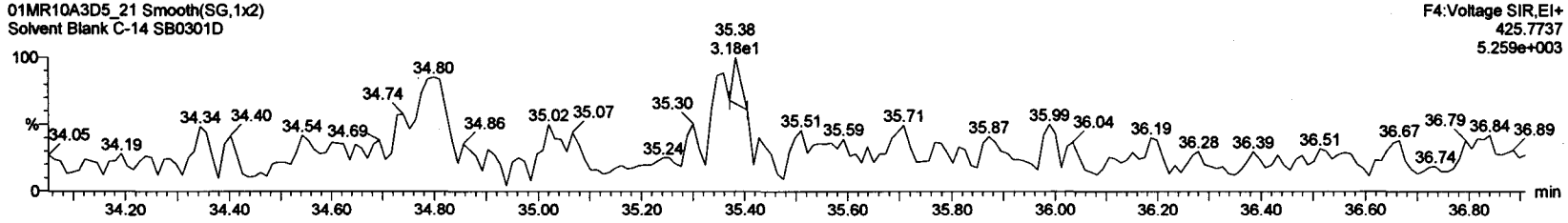
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

HpCDDs





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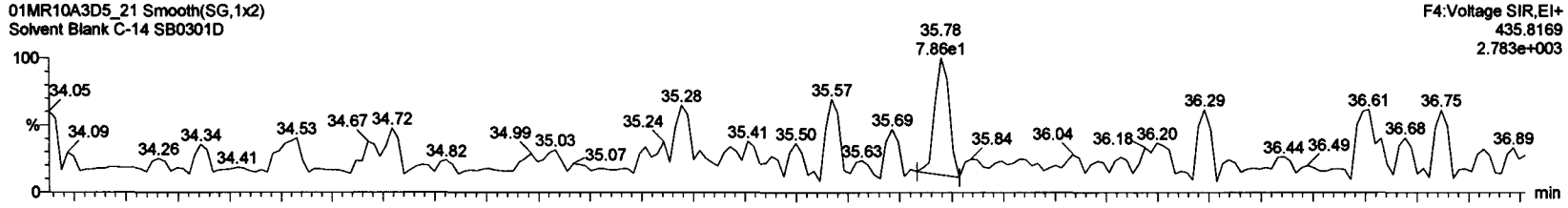
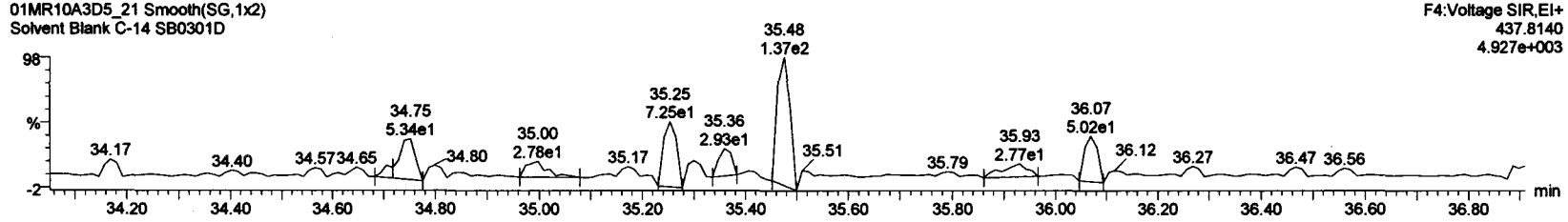




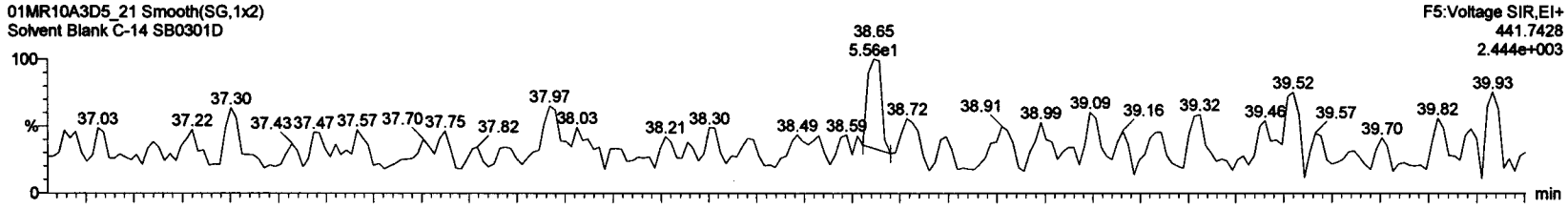
Quantify Sample Report **MassLynx 4.1**

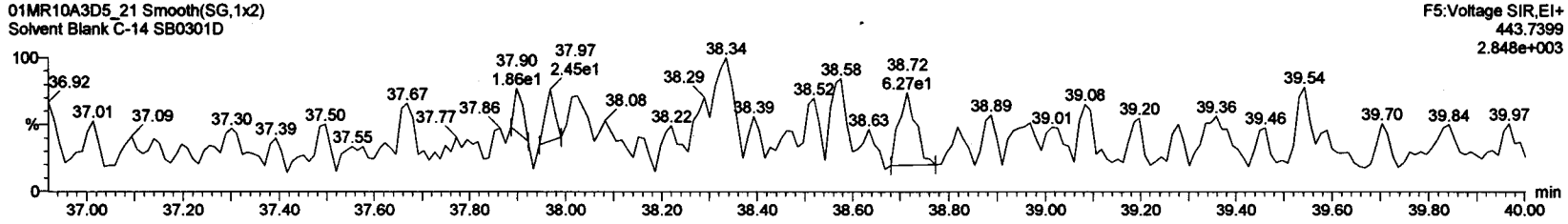
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

OCDFs





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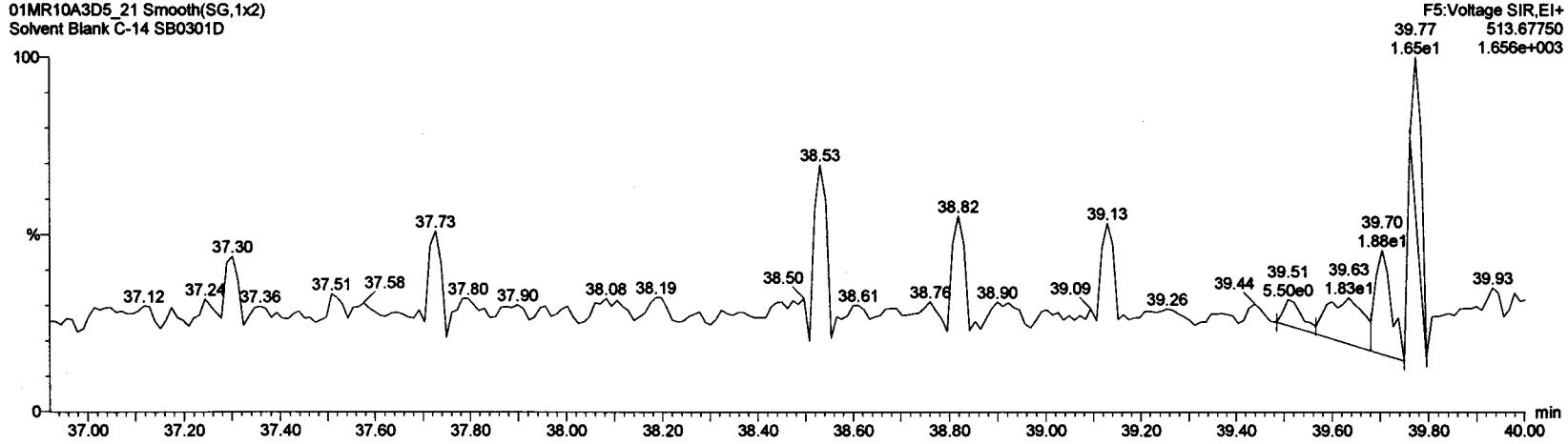

Quantify Sample Report **MassLynx 4.1**

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Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

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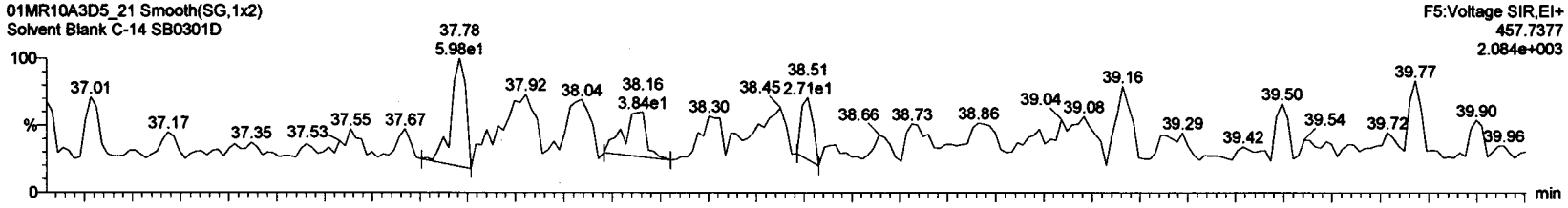

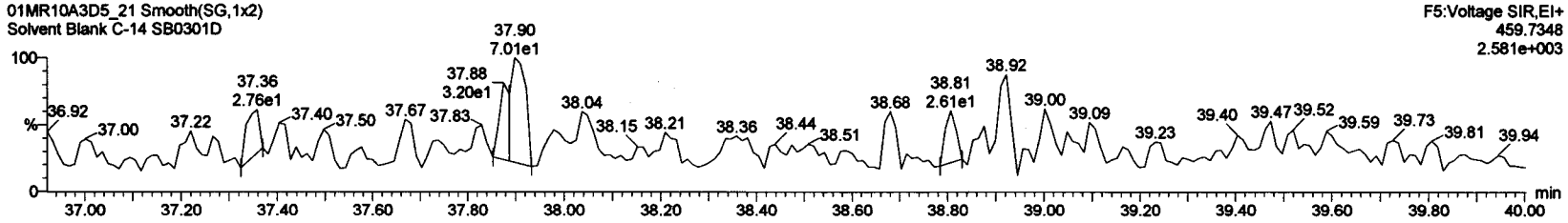

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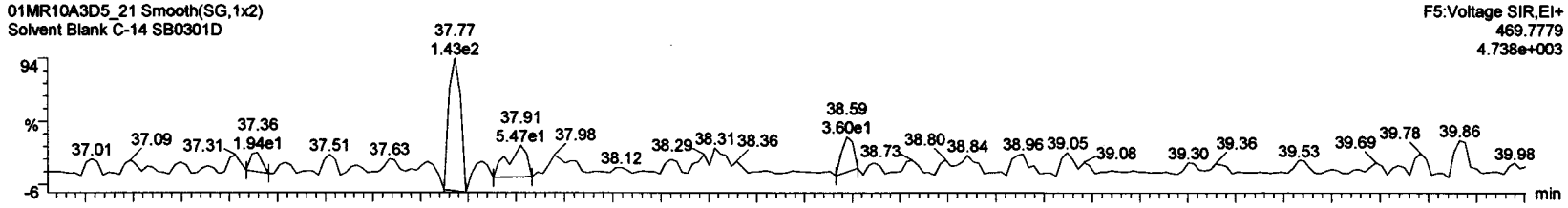

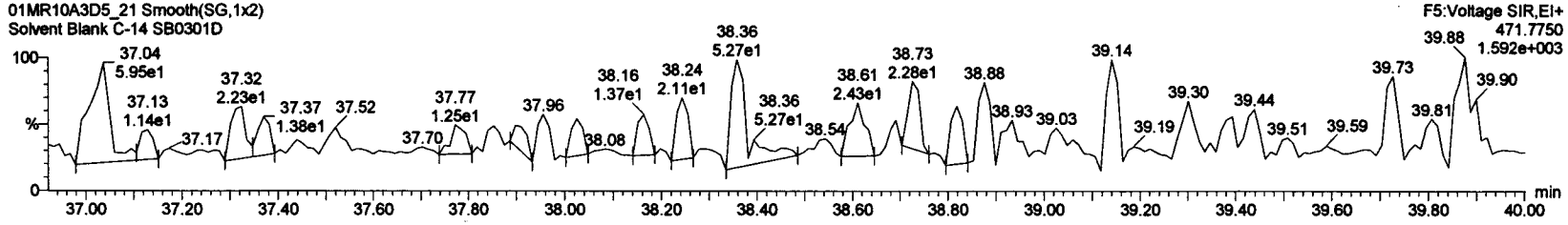

Quantify Sample Report **MassLynx 4.1**

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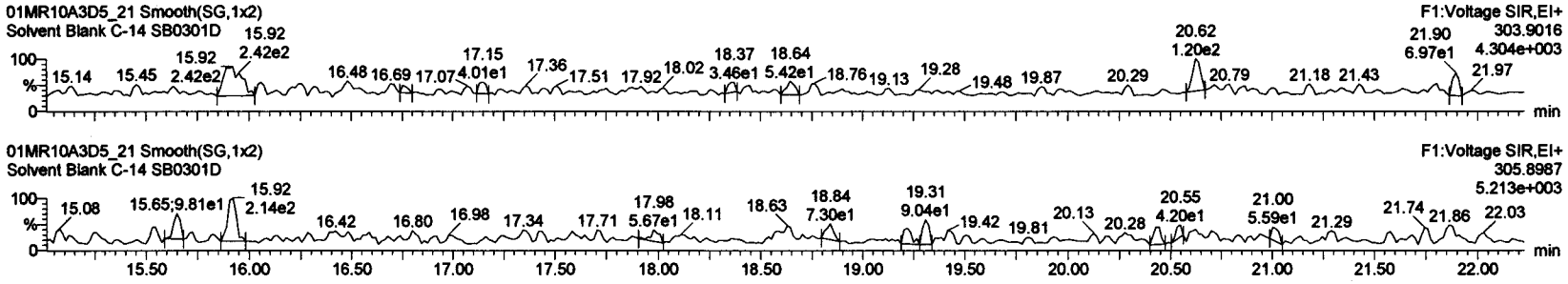
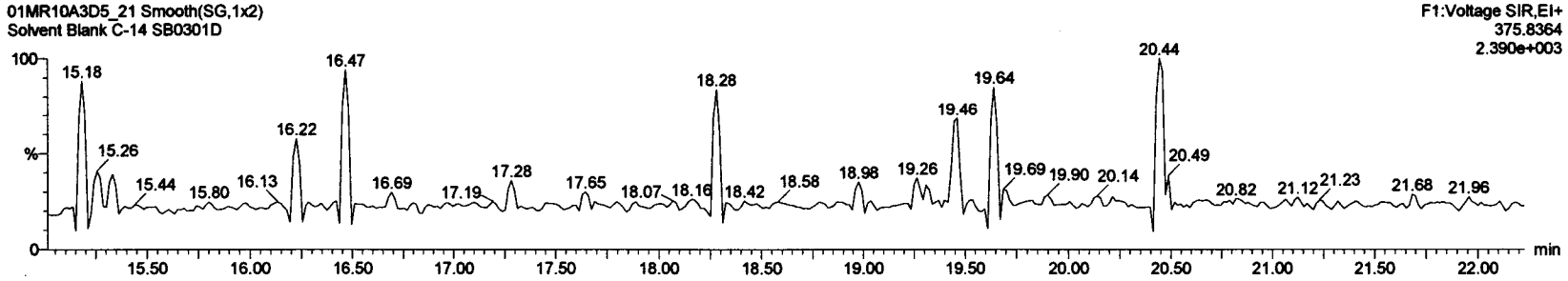
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

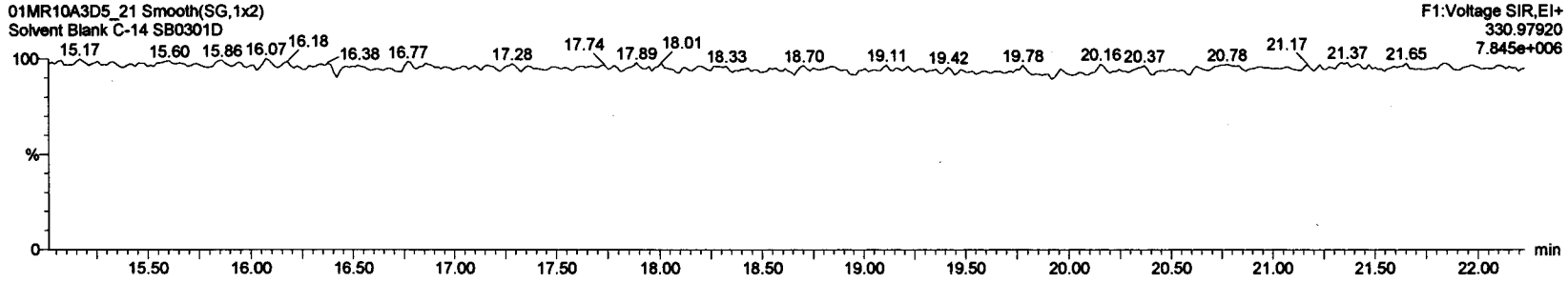
TCDFs



TCDF PCDPE



Function 1 PFK



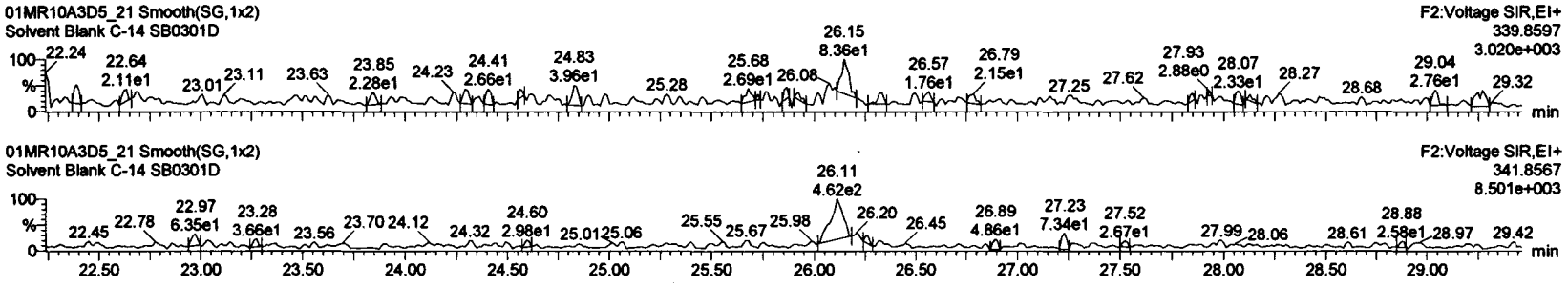
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

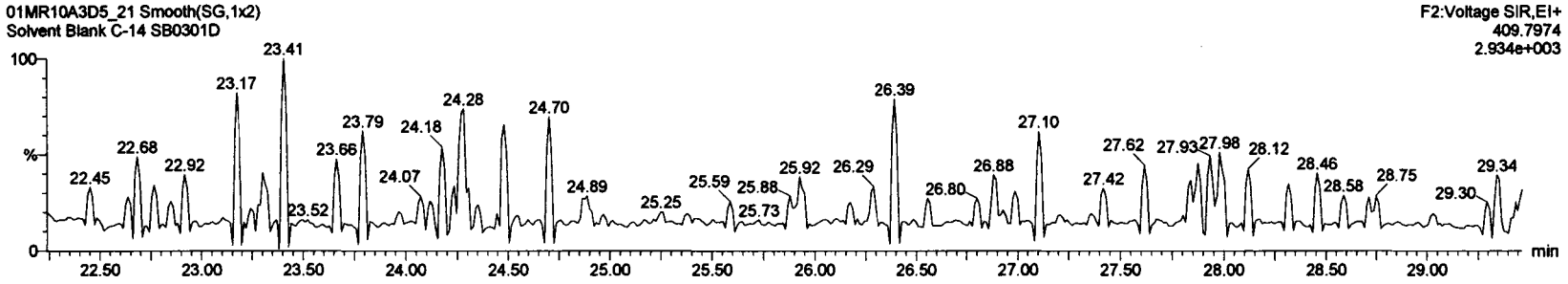
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

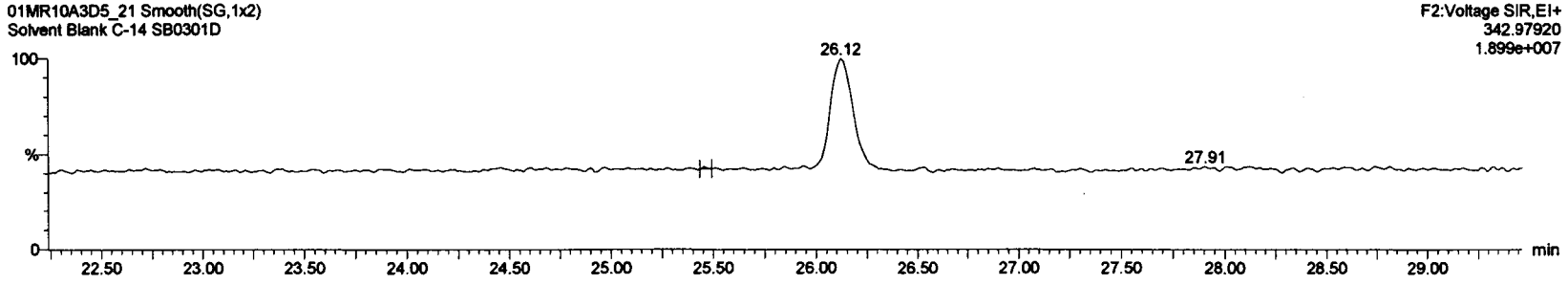
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



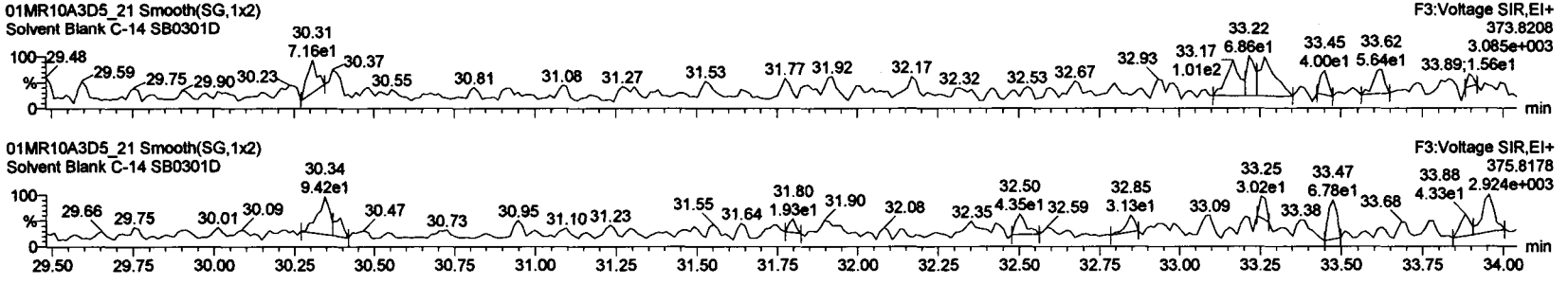
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

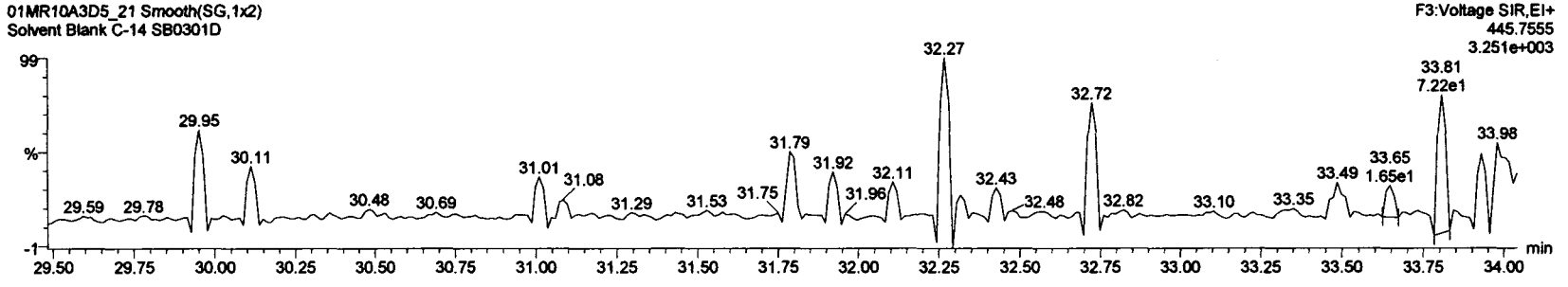
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

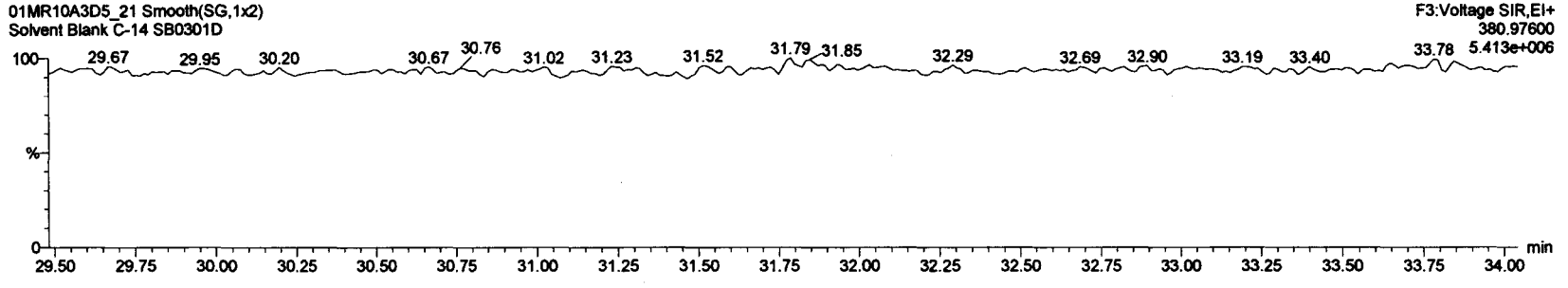
HxCDFs



HxCDF PCDPE



Function 3 PFK



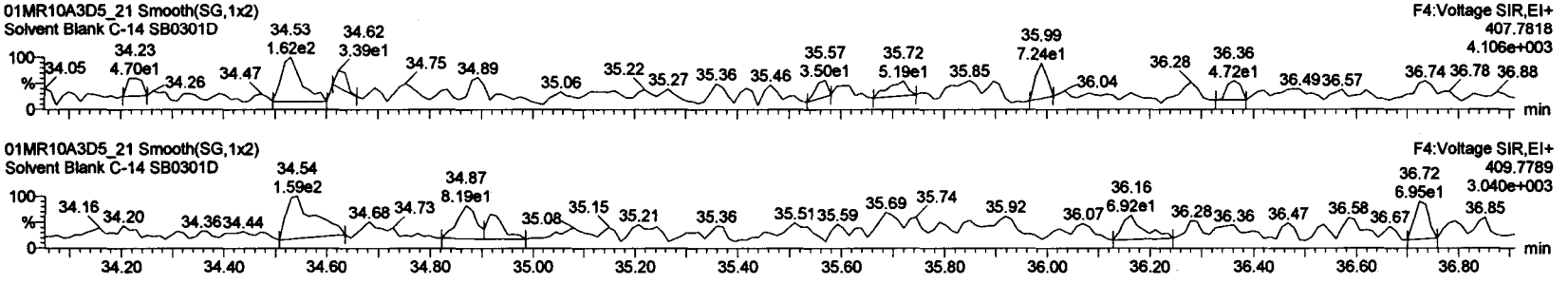
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

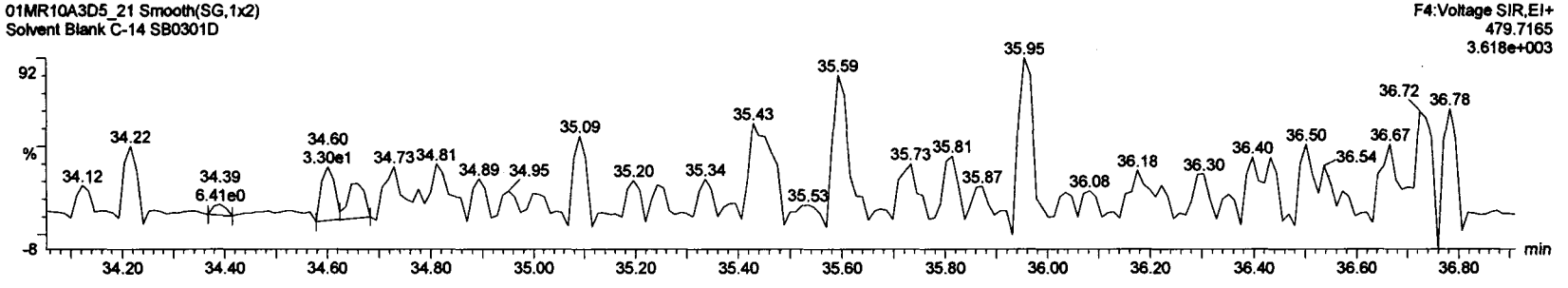
Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

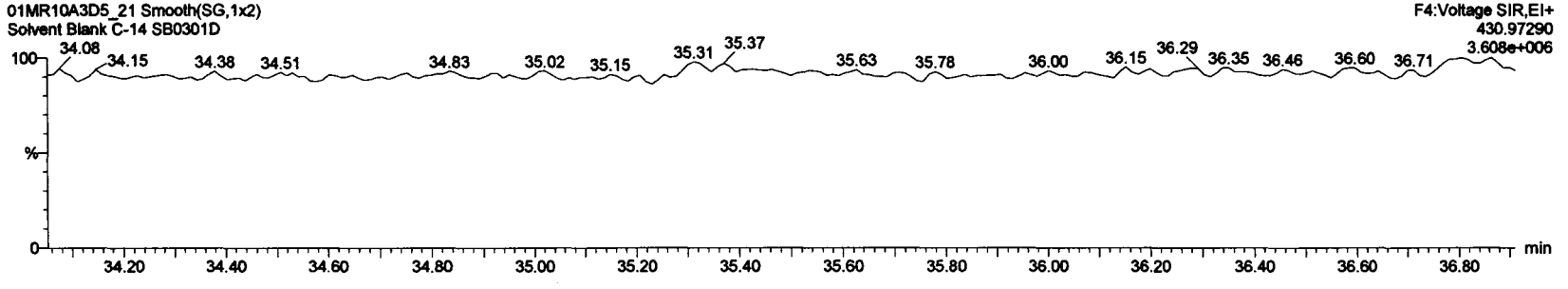
HpCDFs



HpCDF PCDPE



Function 4 PFK



Quantify Sample Report **MassLynx 4.1**

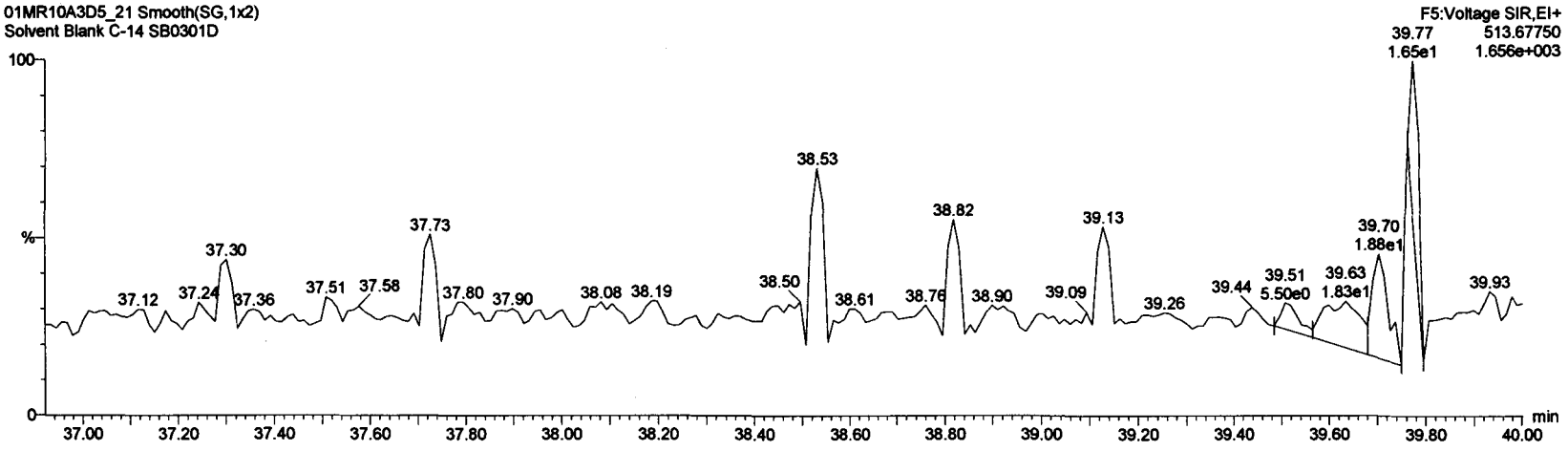
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:12:29 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:14:50 Pacific Standard Time

Name: 01MR10A3D5_21, Date: 02-Mar-2010, Time: 10:13:23, ID: SB0301D, Description: Solvent Blank C-14

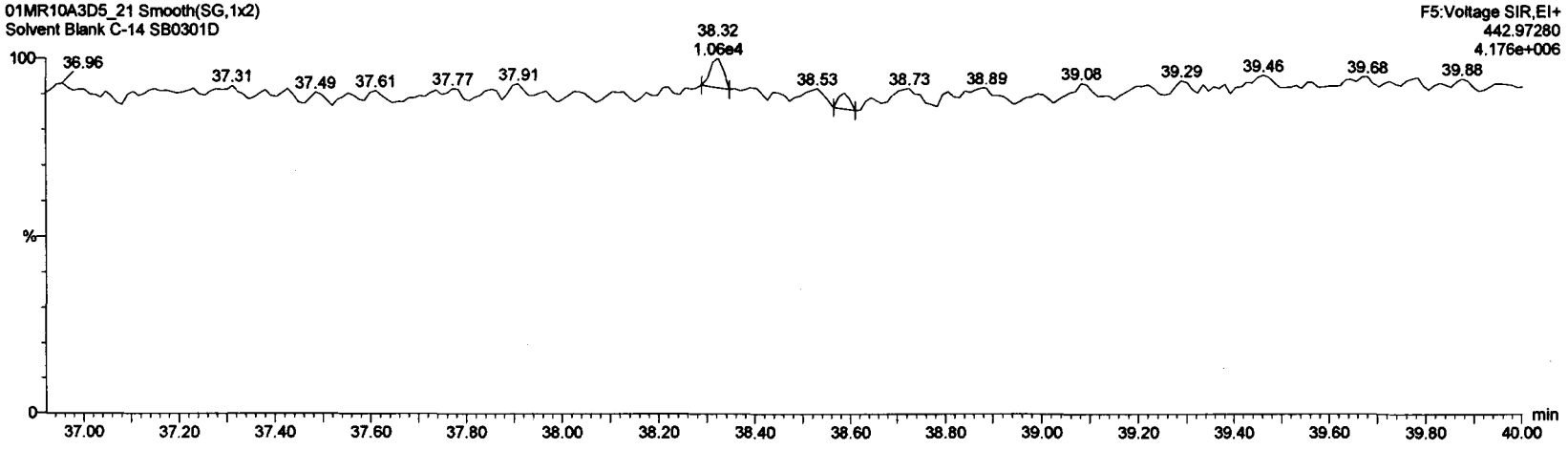
OCDF PCDPE

01MR10A3D5_21 Smooth(SG,1x2)
Solvent Blank C-14 SB0301D



Function 5 PFK

01MR10A3D5_21 Smooth(SG,1x2)
Solvent Blank C-14 SB0301D



Quantify Sample Report **MassLynx 4.1**

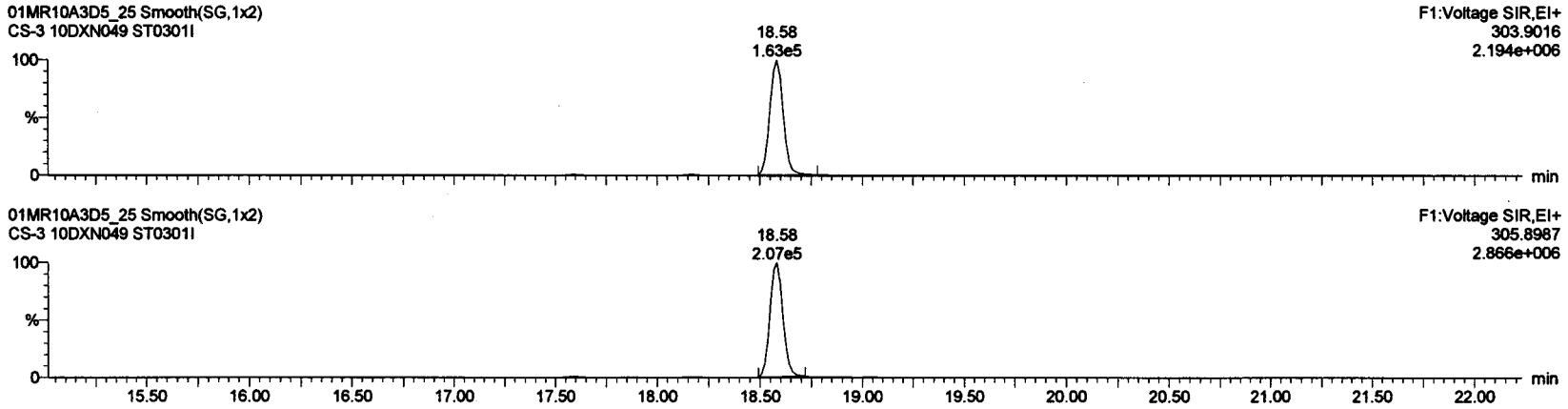
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

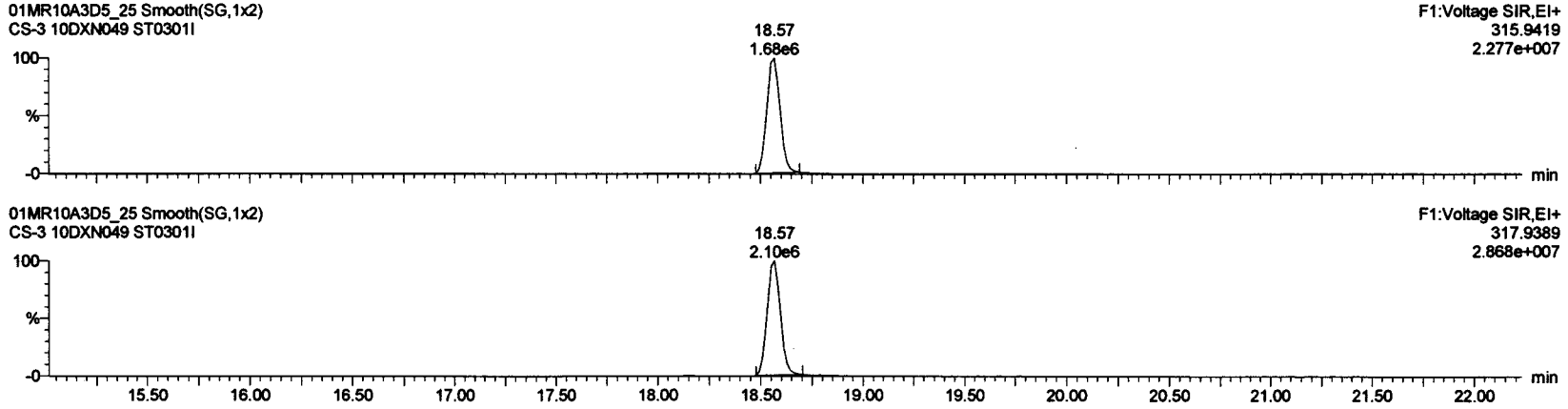
Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 01 Mar 2010 16:44:35
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

TCDFs



13C-TCDF



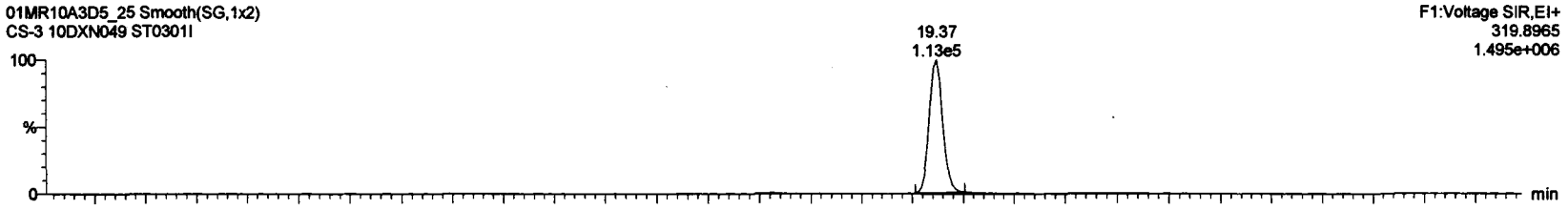
Quantify Sample Report **MassLynx 4.1**

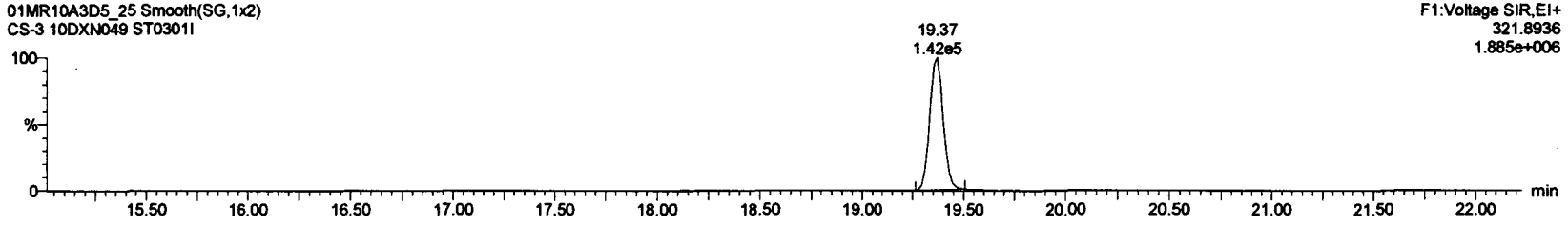
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

TCDDs





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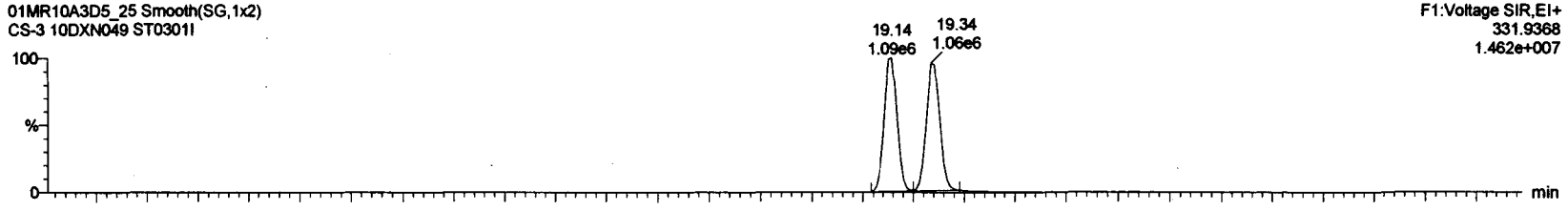
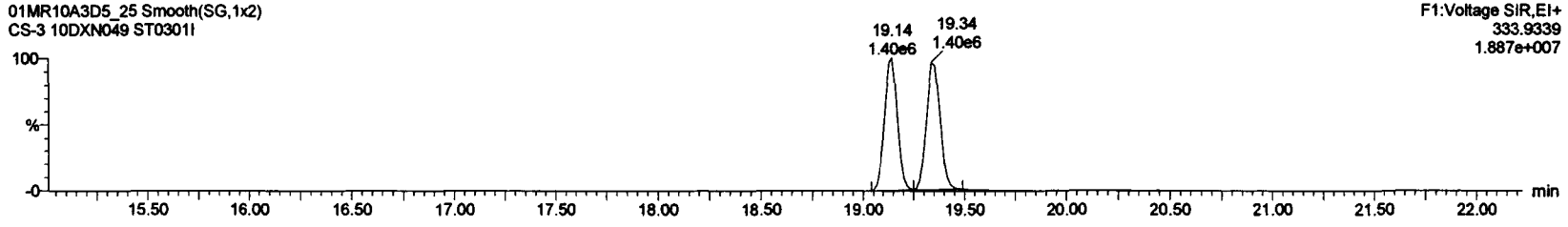




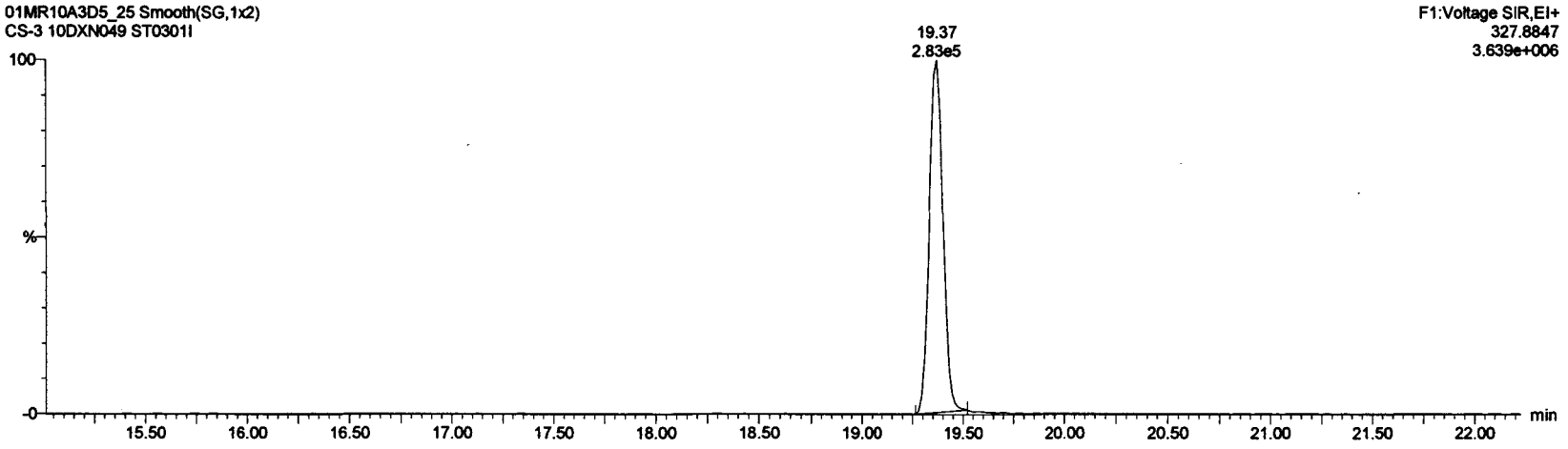
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

37CL-2,3,7,8-TCDD



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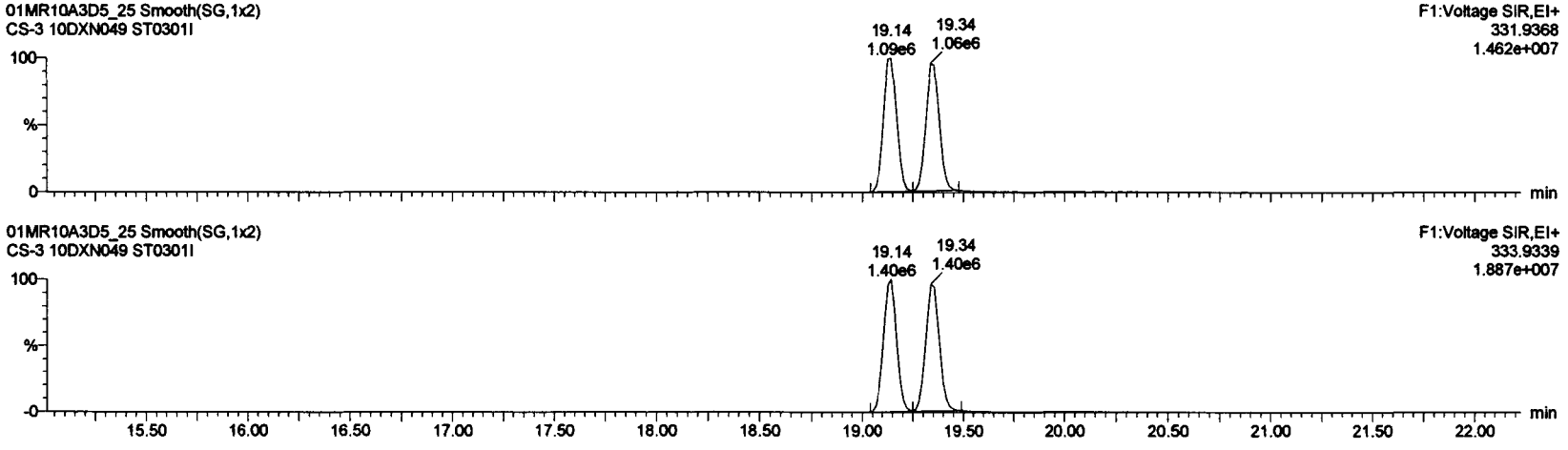


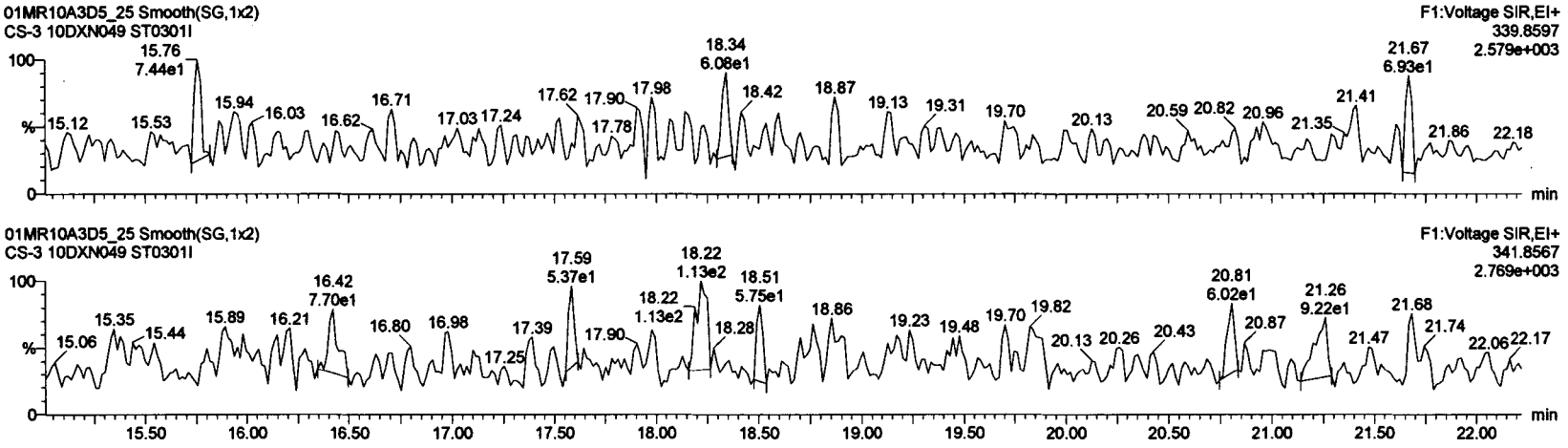
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

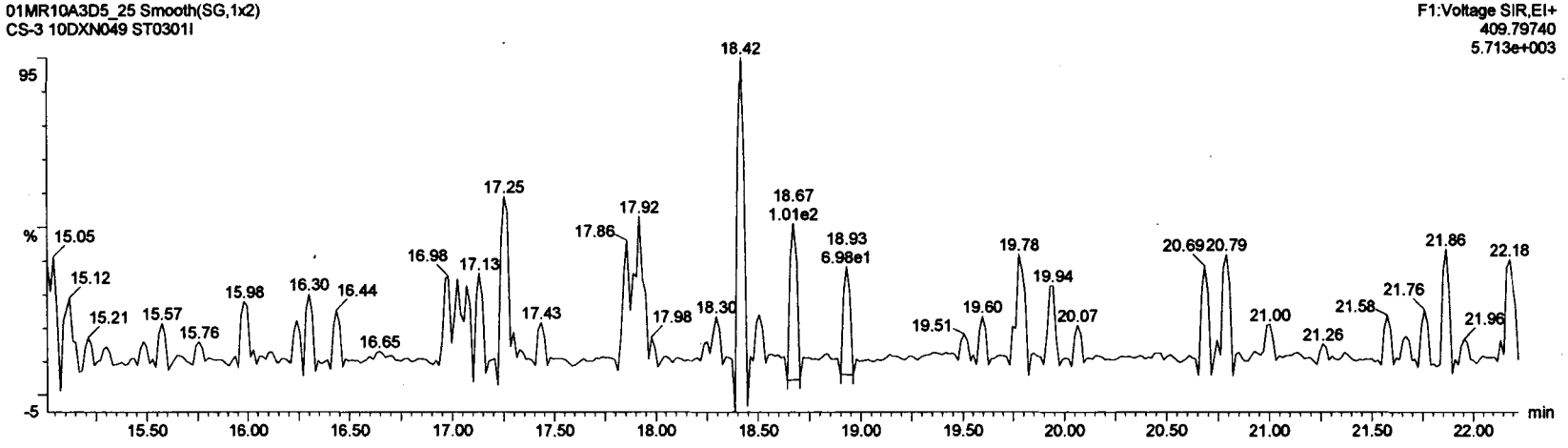
Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

F1 PeCDFs



F1 PeCDF PCDPE



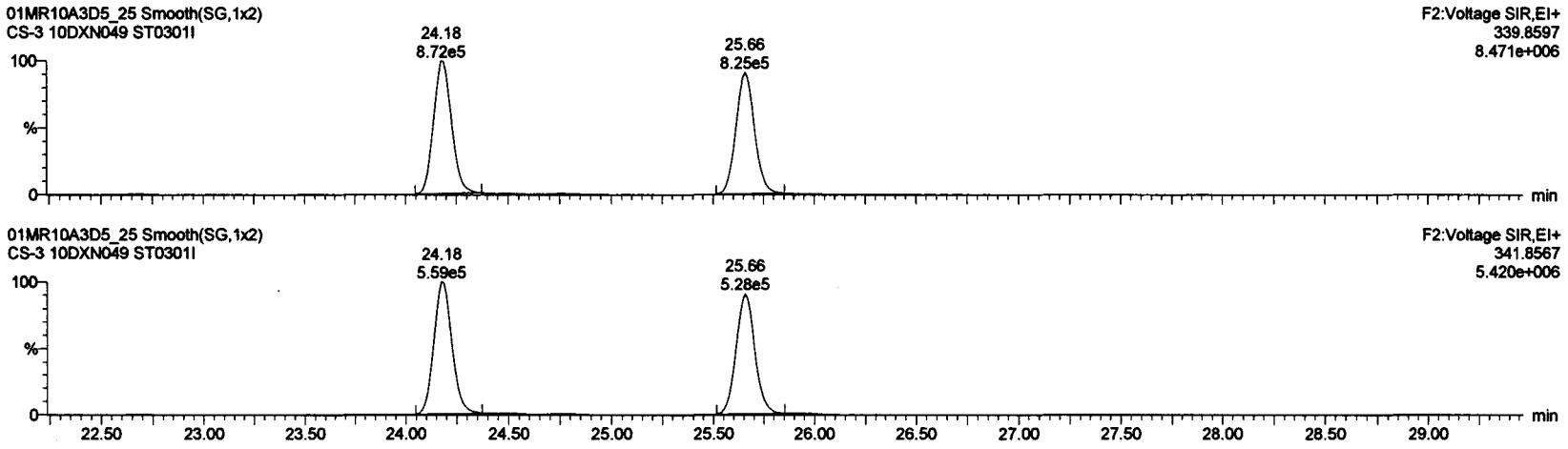
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

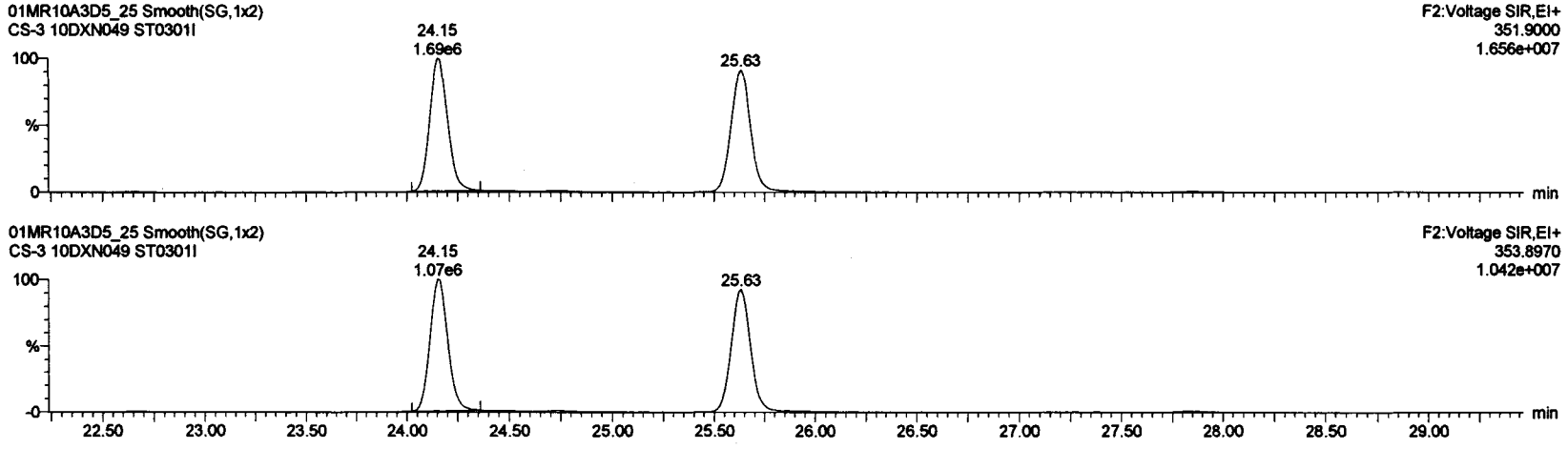
Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

PeCDFs



13C-PeCDFs



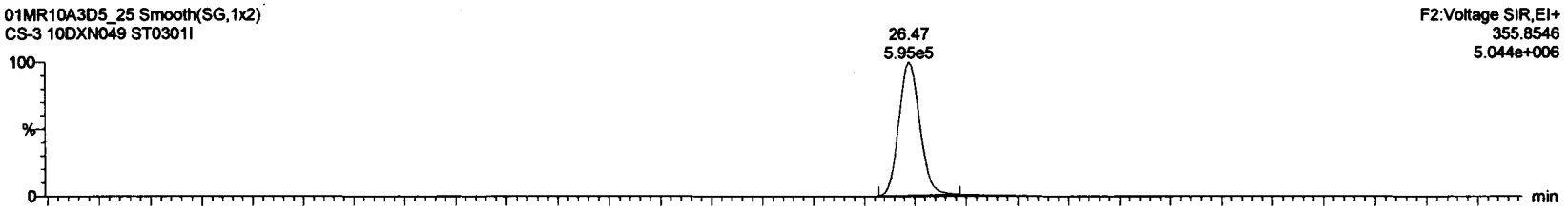
Quantify Sample Report **MassLynx 4.1**

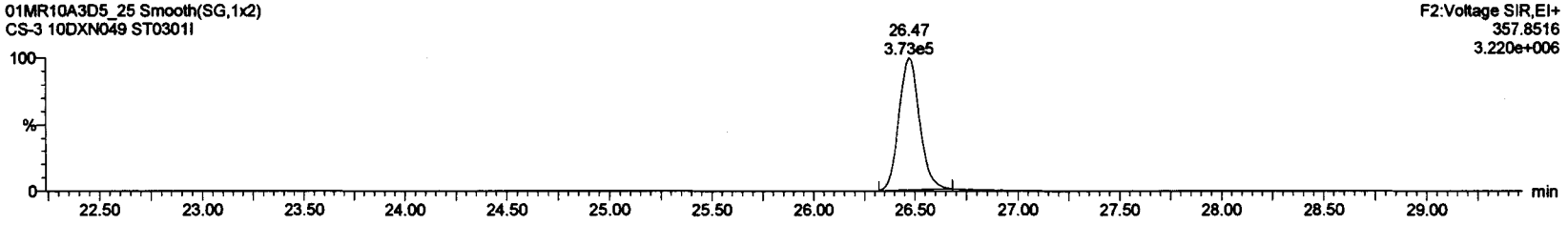
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

PeCDDs





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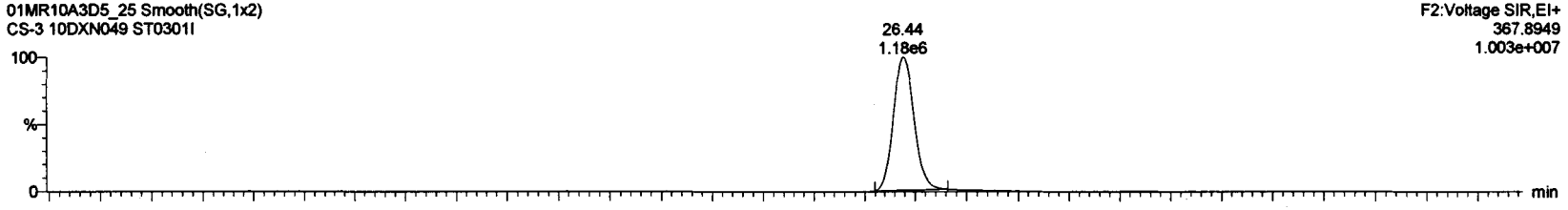
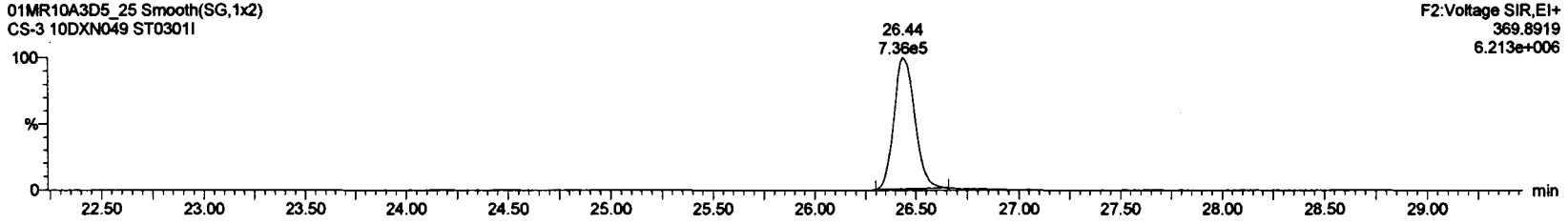




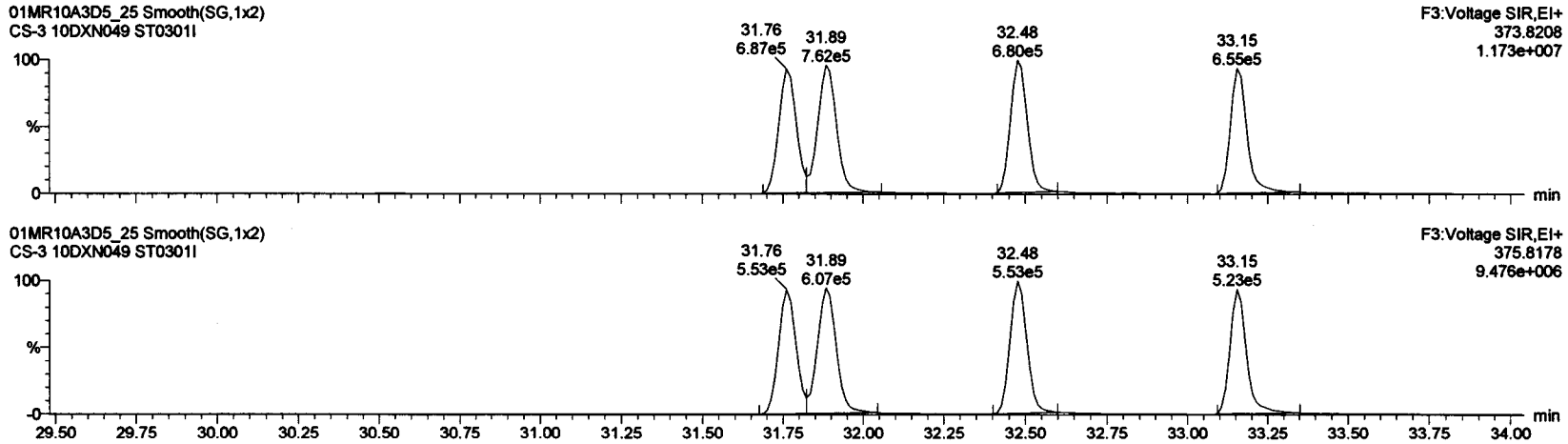
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

HxCDFs



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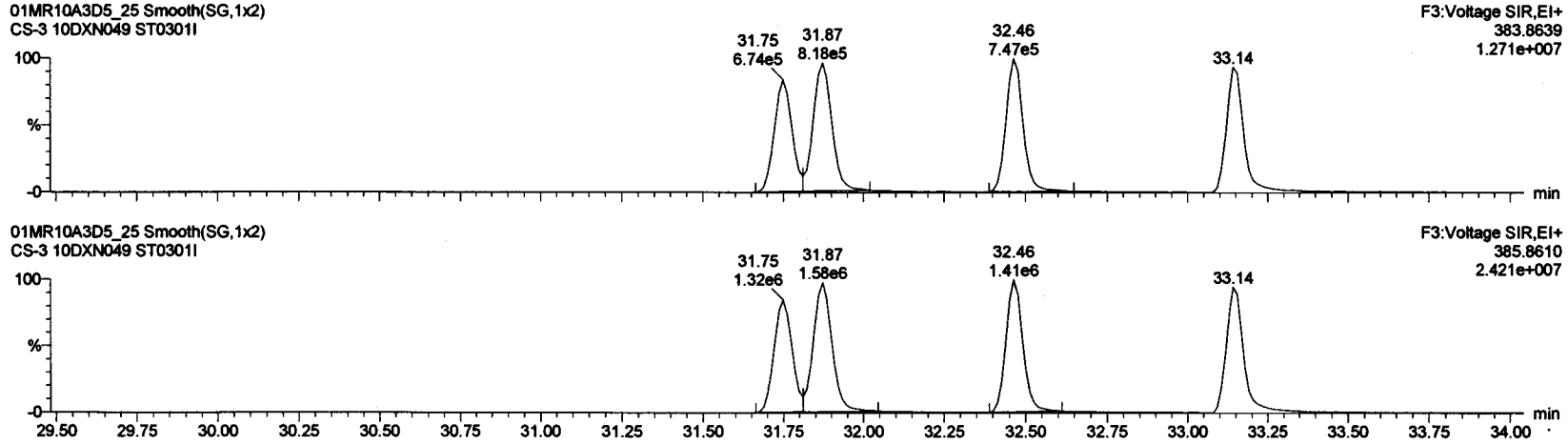


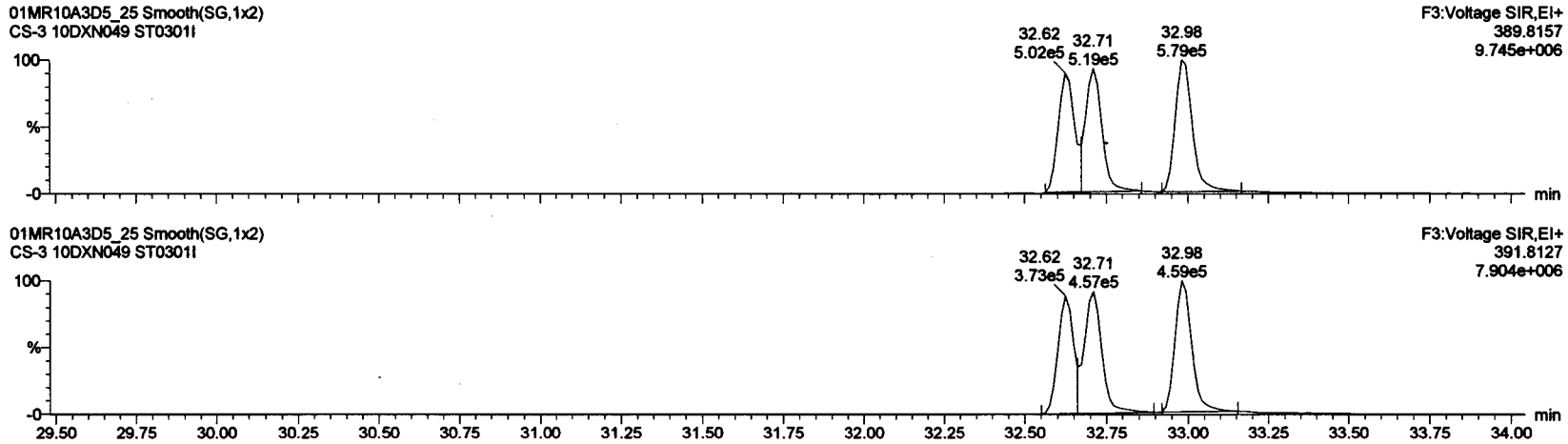
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

HxCDDs



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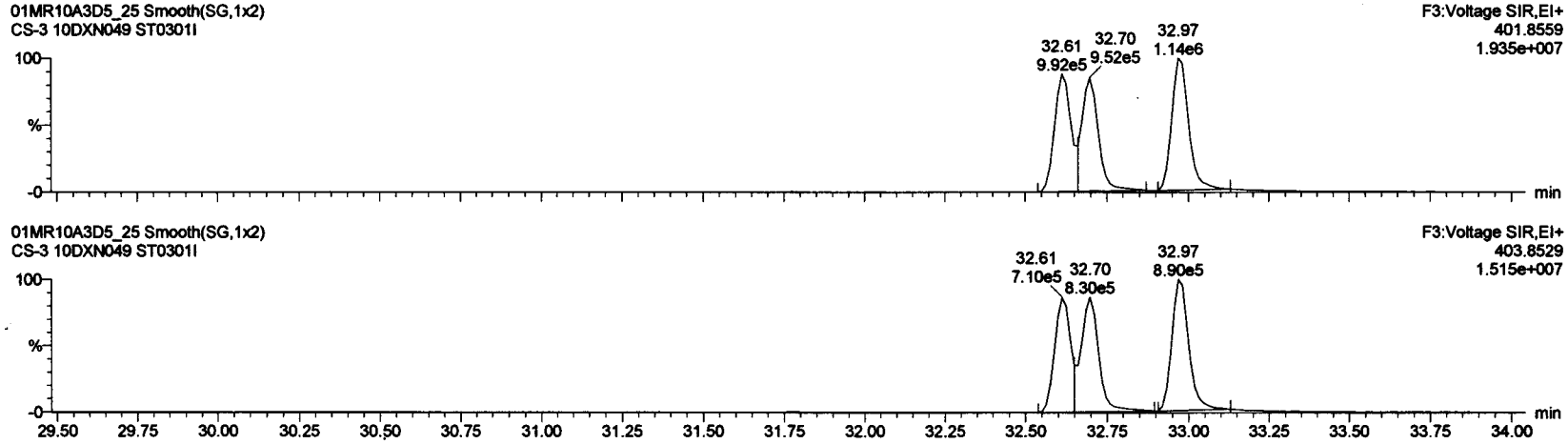


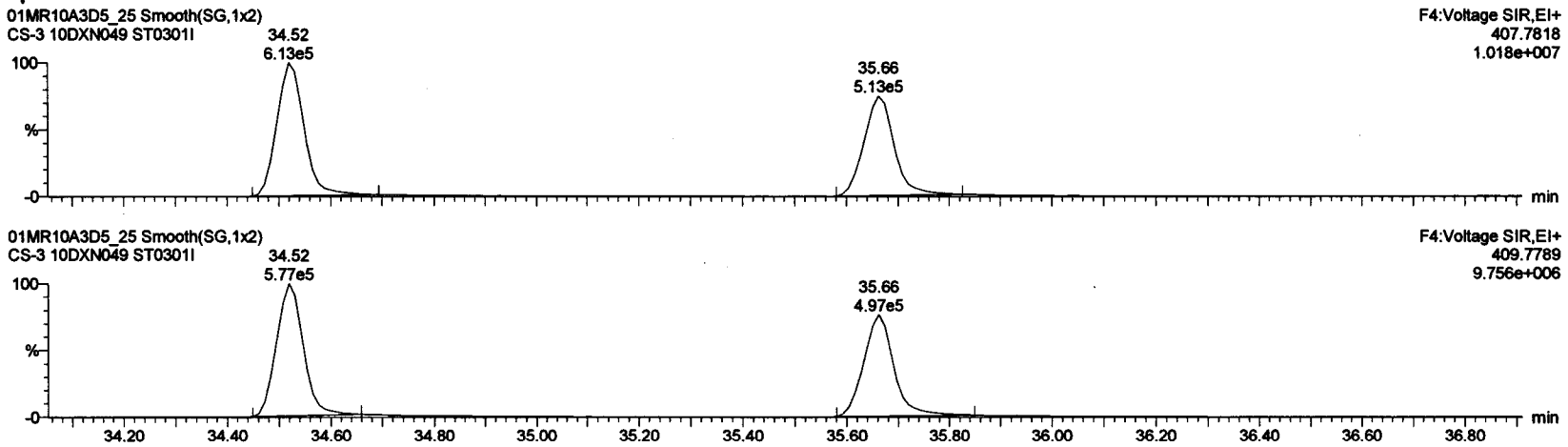
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

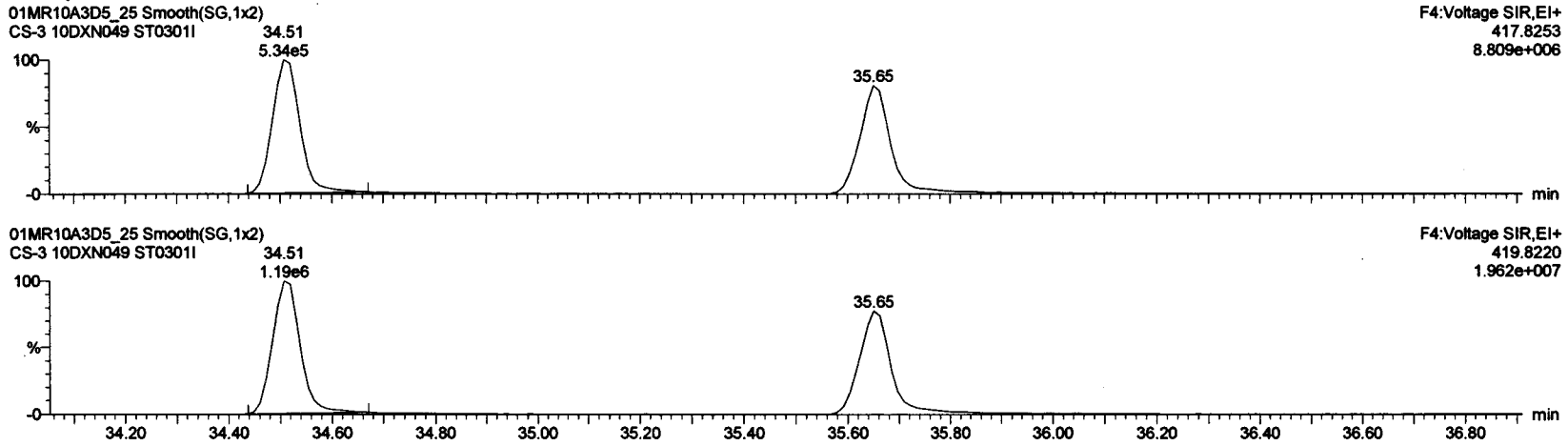
Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

HpCDFs



13C-HpCDFs



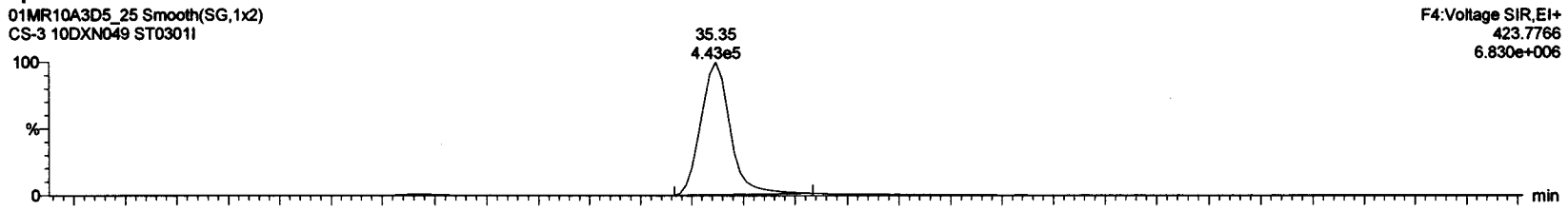
Quantify Sample Report **MassLynx 4.1**

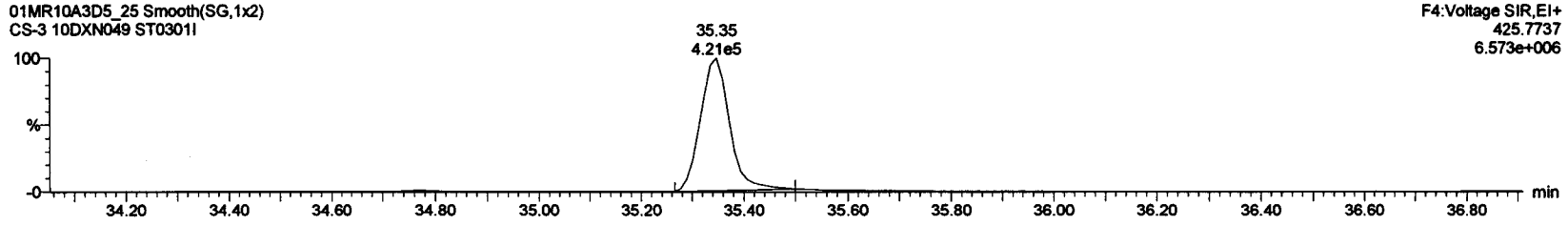
Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

HpCDDs





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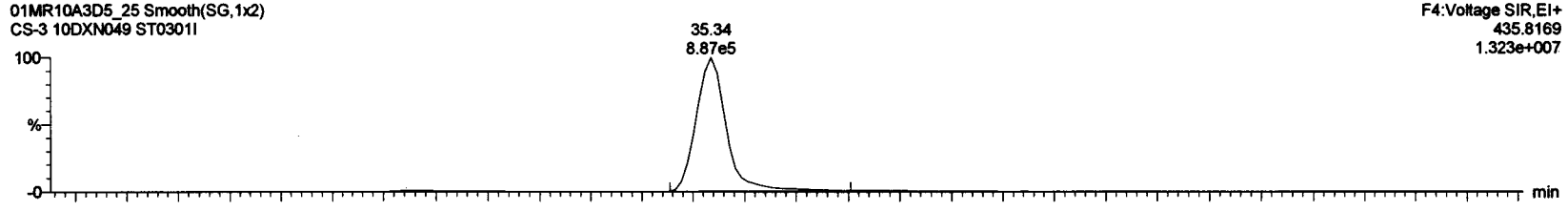
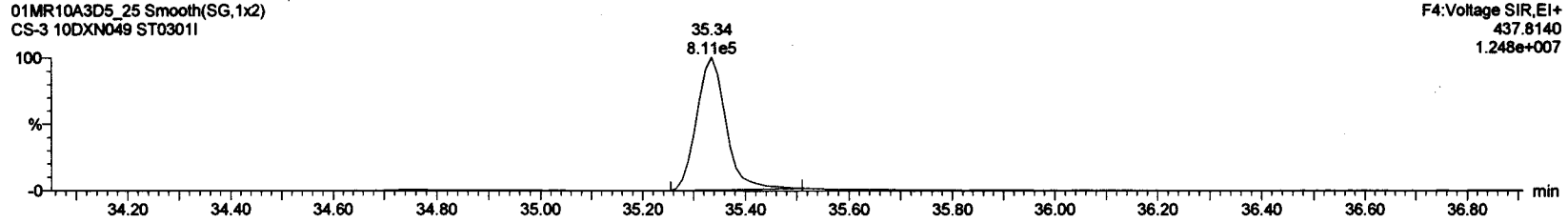




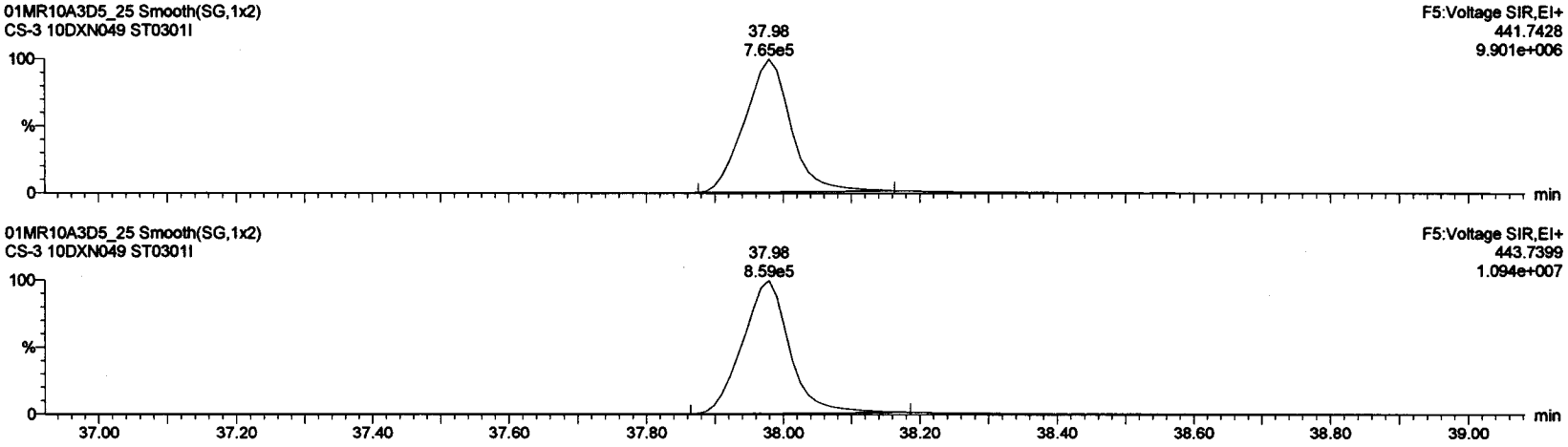
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

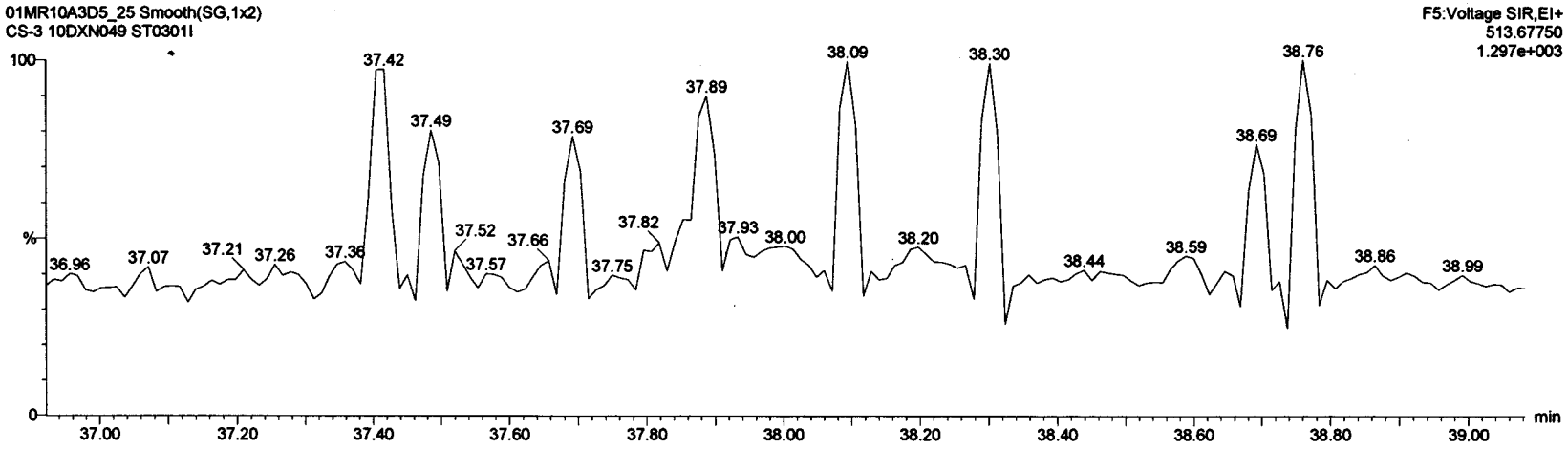
Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

OCDFs



OCDF PCDPE



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

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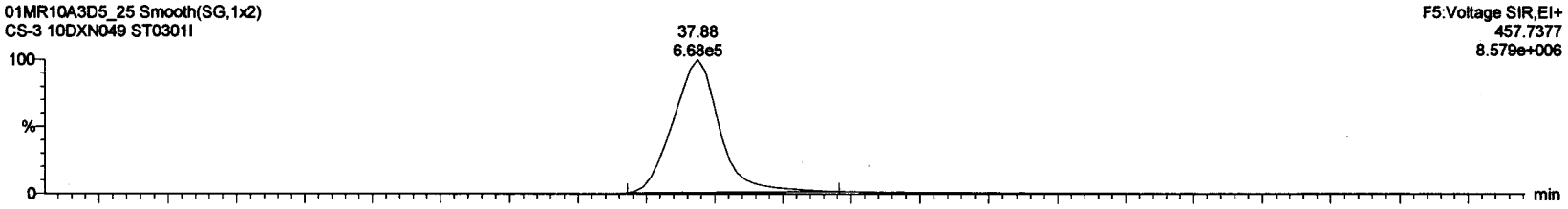
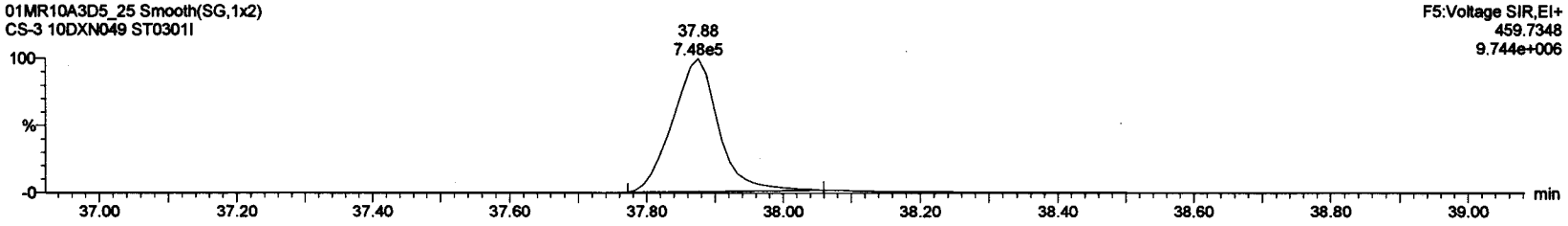
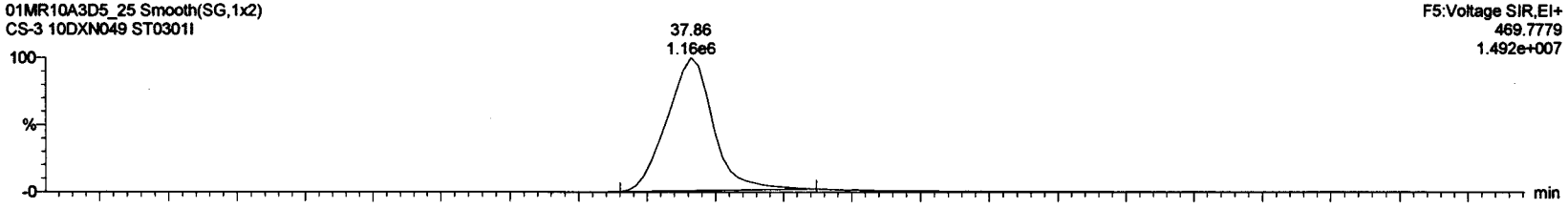
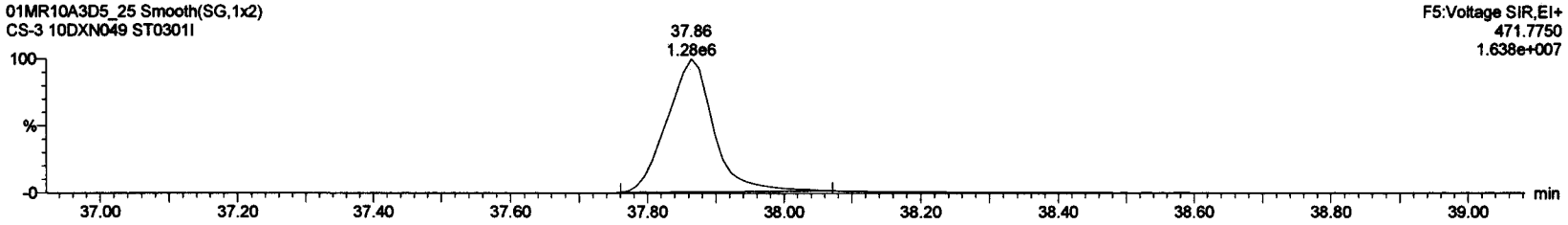




13C-OCDD





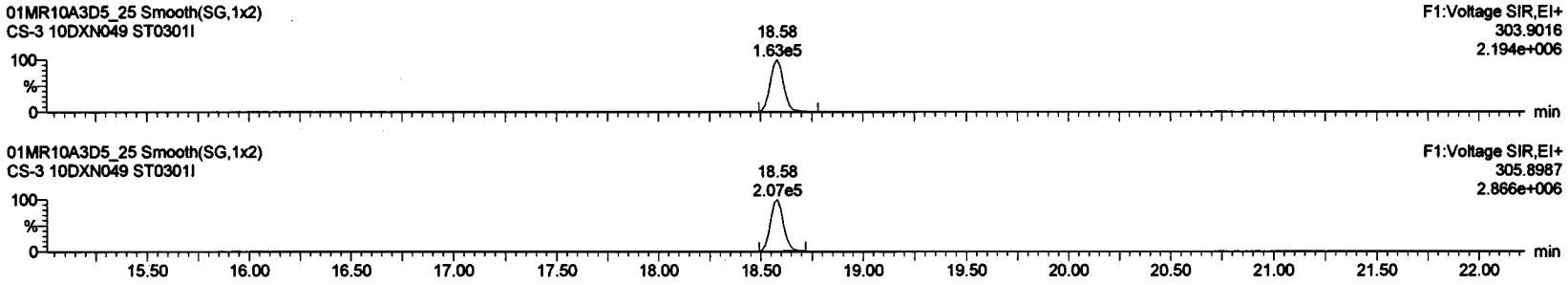
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

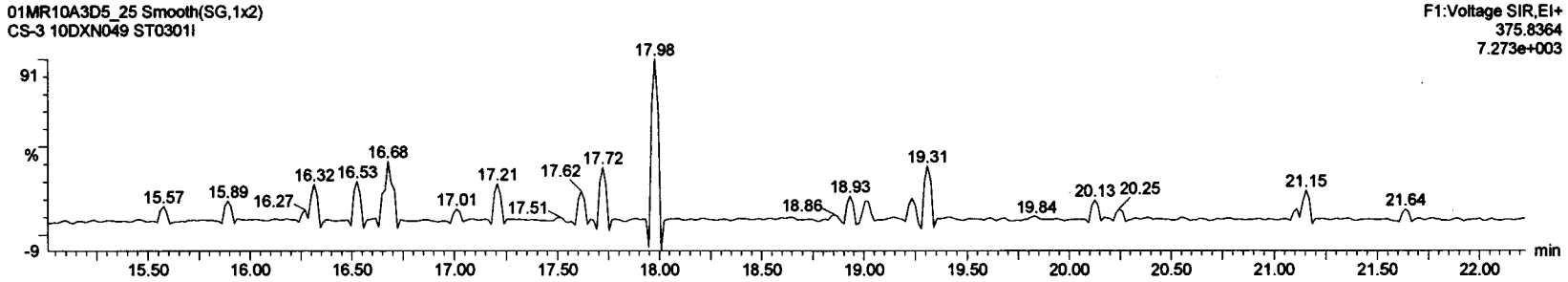
Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

TCDFs



TCDF PCDPE



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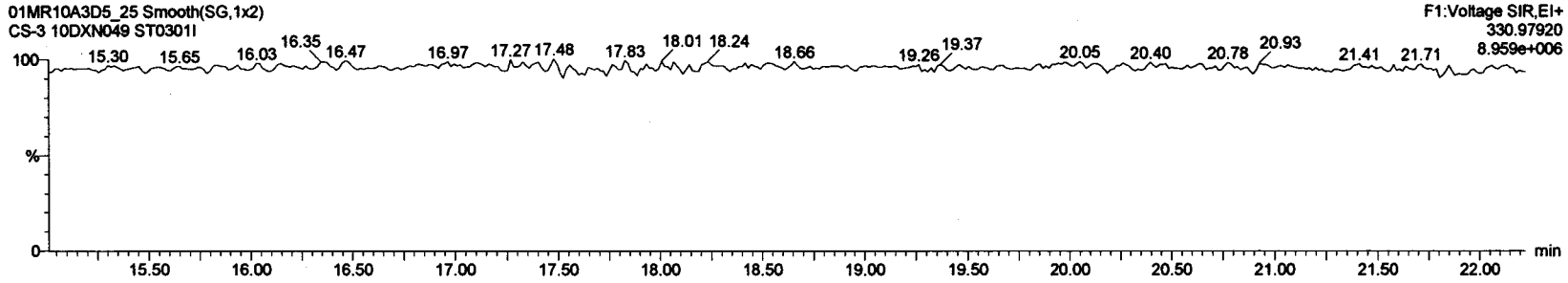


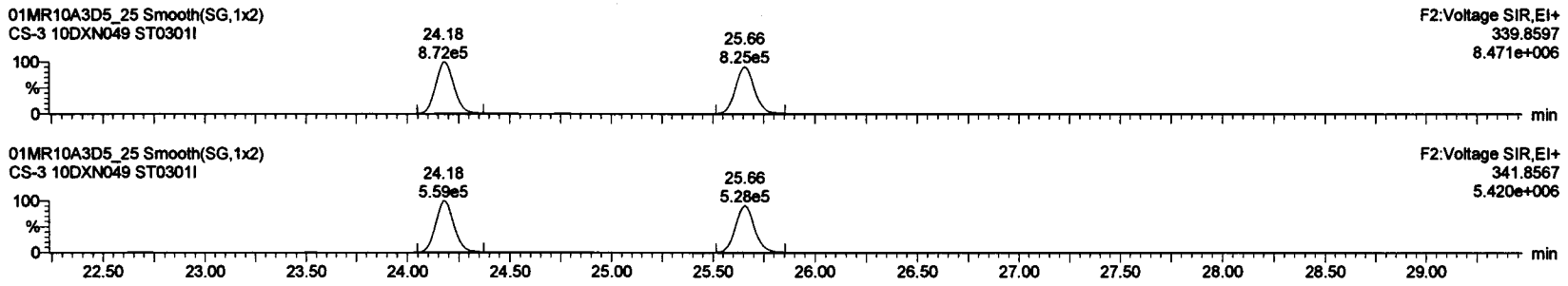
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

PeCDF



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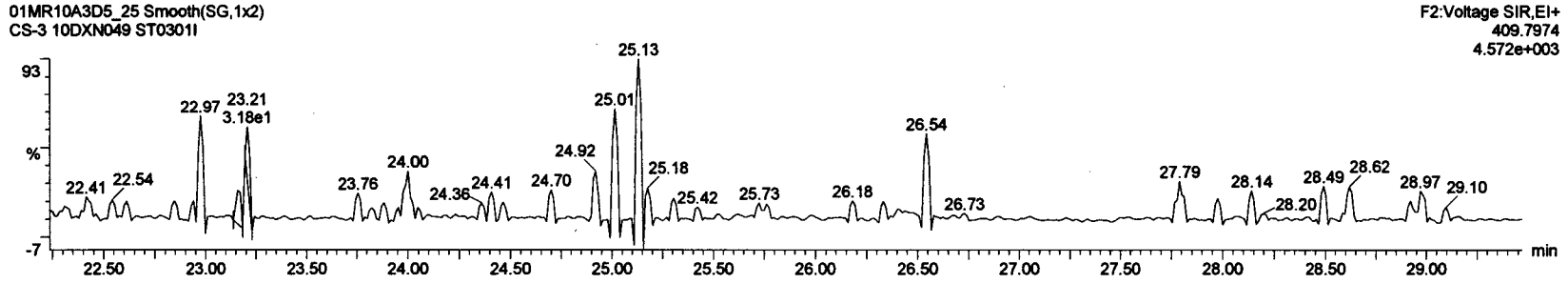
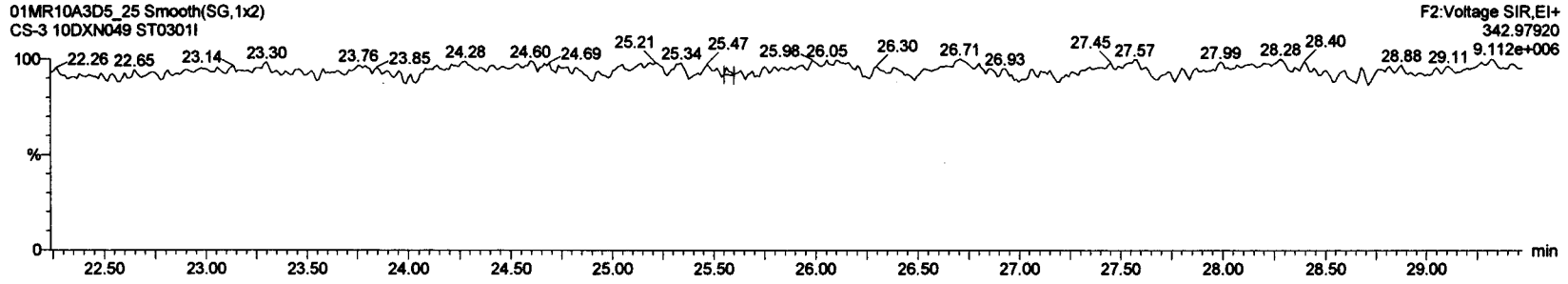


Function 2 PFK



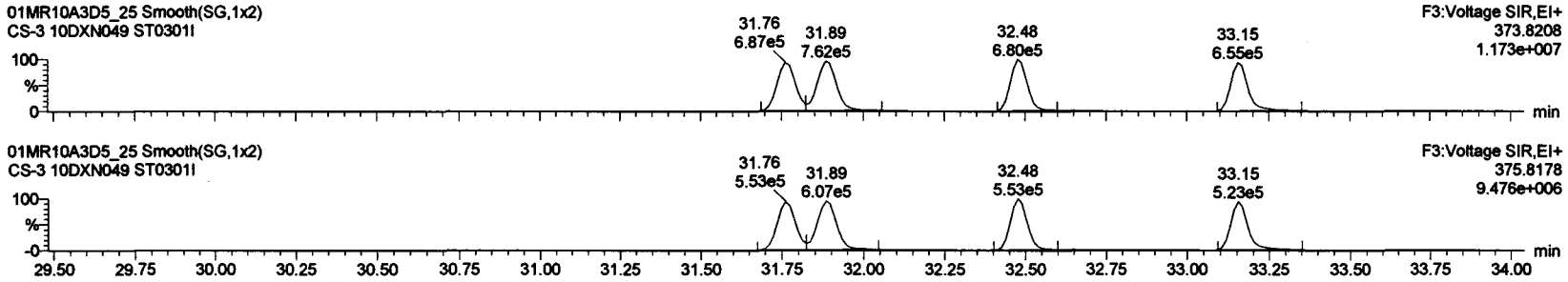
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

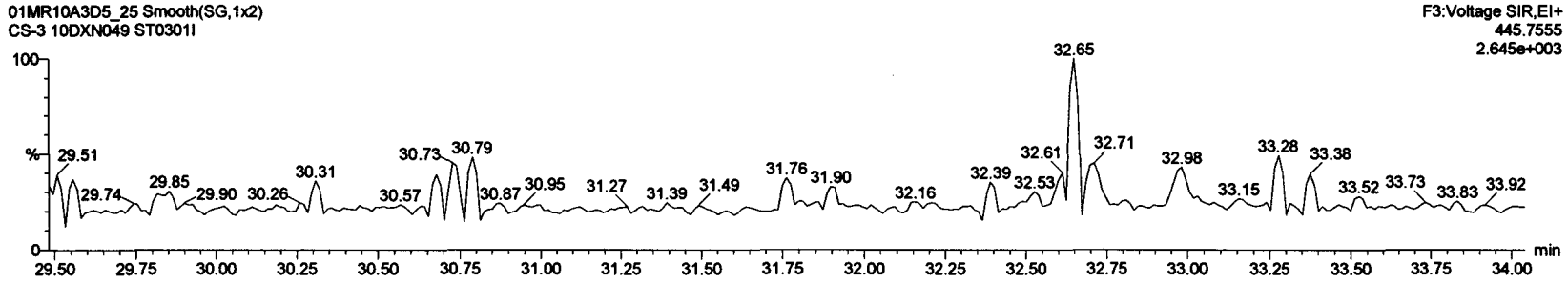
Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

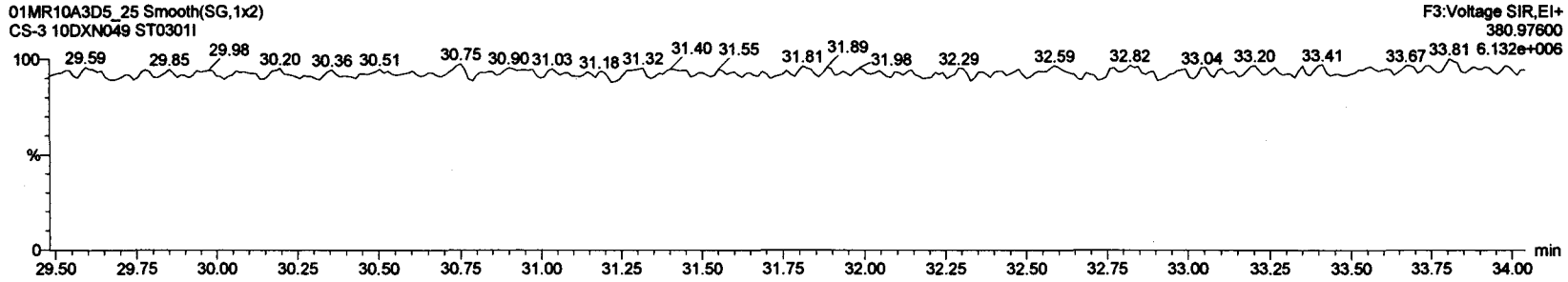
HxCDFs



HxCDF PCDPE



Function 3 PFK



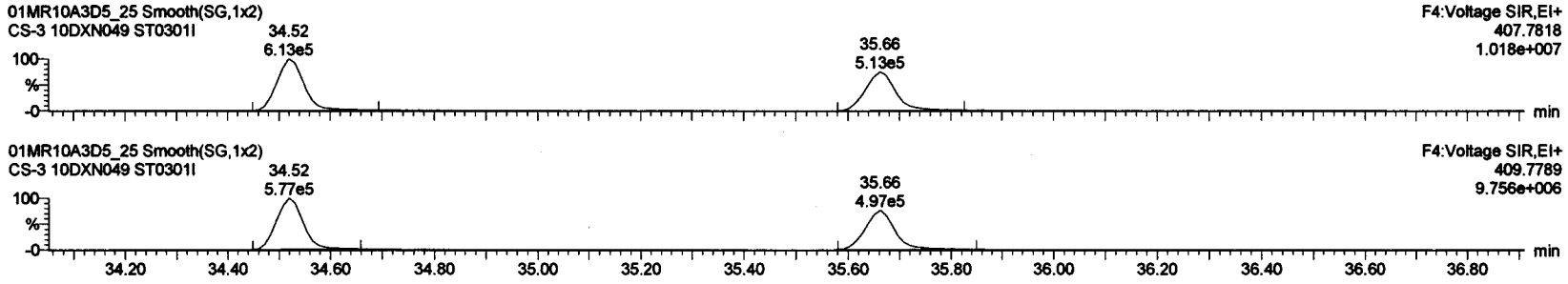
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

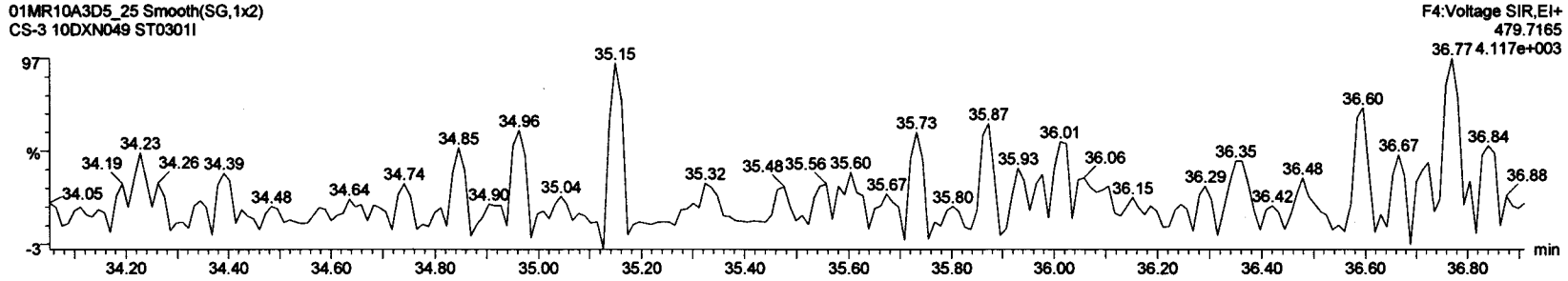
Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

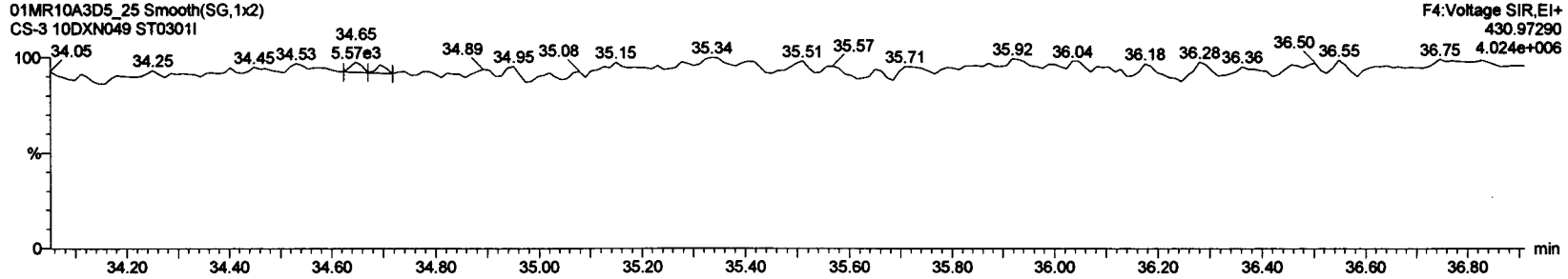
HpCDFs



HpCDF PCDPE



Function 4 PFK



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

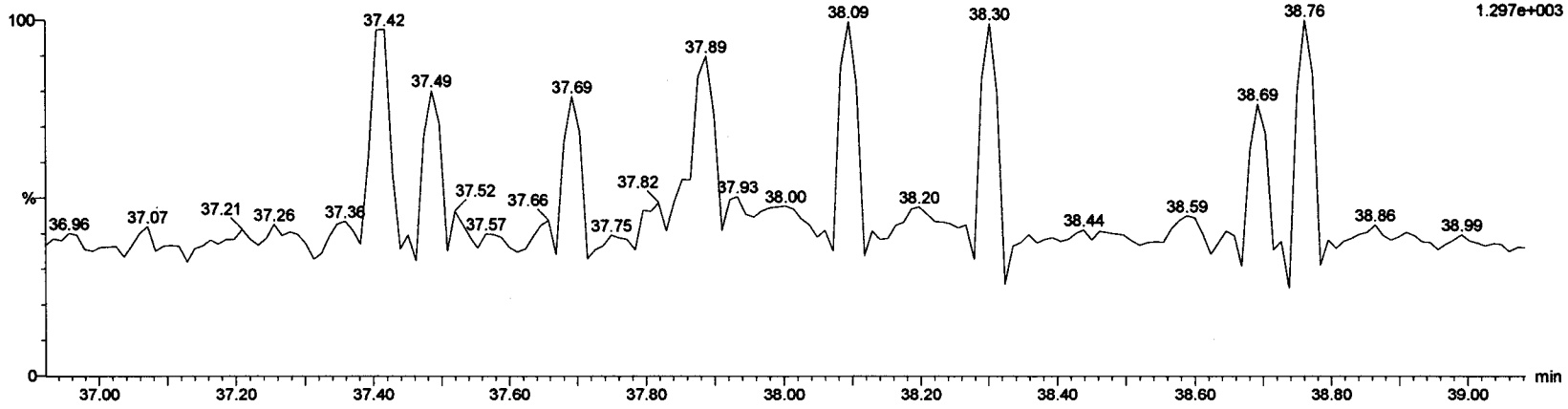
Last Altered: Tuesday, March 02, 2010 13:45:14 Pacific Standard Time
Printed: Tuesday, March 02, 2010 13:45:57 Pacific Standard Time

Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

OCDF PCDPE

01MR10A3D5_25 Smooth(SG,1x2)
CS-3 10DXN049 ST0301I

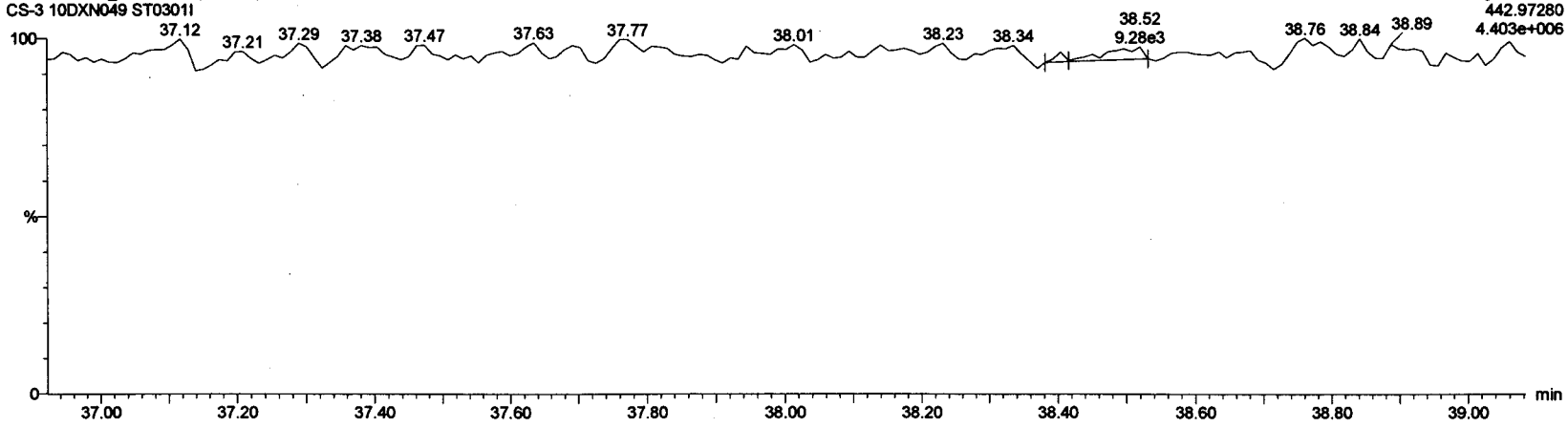
F5:Voltage SIR,EI+
513.67750
1.297e+003



Function 5 PFK

01MR10A3D5_25 Smooth(SG,1x2)
CS-3 10DXN049 ST0301I

F5:Voltage SIR,EI+
442.97280
4.403e+006



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

Test America – West Sacramento

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Initial Calibration Checklist
Dioxin Methods

ICAL ID ICA030120103D5 (8290, 1613, TETRAS)

Method ID 8290, 1613B, Tetras

Date Scanned

Column ID DB5

Instrument ID 3D5

STD ID's ST0301,(A, B , C, D,)

STD Solution 10DXN049, 09DXN422(23,26,56)

GC Program DIOXIN

Multiplier Setting 350

Analyzed By JRB

Date Analyzed 03/01/10

Prepared By JRB

Date Prepared 3/1/10

Reviewed By M.G.

Date Reviewed 3/1/10

ANALYSTS OBSERVATIONS	INITIATED	REVIEWED
Curve summary present?	✓	✓
Hardcopies of chromatograms for CS1-CS5 present?	✓	✓
Copy of log-file present?	✓	✓
Static resolution check present?	✓	✓
Target file RT's correct?	✓	✓
%RSD within method-specified limits?*	✓	✓
Signal-to-noise criteria met?	✓	✓
Isotopic ratios within limits?	✓	✓
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA

COMMENTS: CS3 13C-1,2,3,4-TCDD RT = 19.13 min 13C-1,2,3,7,8,9-HxCDD RT = 32.97 min

*Method 8290/TO9/M0023A: %RSD ≤20% for natives, ≤30% for labeled compounds; S/N≥10
Method 1613B: %RSD≤ 20% natives, ≤30% labeled compounds; S/N ≥10
Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N ≥ 2.5

C:\Documents and Settings\lores\Desktop\QA-384 Dioxins ICAL Checklist 3D5.doc
QA-384 7/26/06 DAW

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
Printed: Monday, March 01, 2010 16:29:42 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 01 Mar 2010 16:27:52
Calibration: 01 Mar 2010 16:27:59

#	Name	RRF Mean	RRF SD	RRF %Rel SD
1	13C-1,2,3,4-TCDD	1.00000	0.00000	0.00000
2				
3	13C-2,3,7,8-TCDF	1.40173	0.06488	4.62848
4	2,3,7,8-TCDF	0.92135	0.05628	6.10850
5	Total TCDFs	0.92135	0.05628	6.10849
6				
7	13C-2,3,7,8-TCDD	0.94961	0.05927	6.24113
8	2,3,7,8-TCDD	1.03870	0.05087	4.89709
9	Total TCDDs	1.03870	0.05087	4.89709
10				
11	37CL-2,3,7,8-TCDD	1.14465	0.06138	5.36206
12				
13	13C-1,2,3,7,8-PeCDF	1.11677	0.10746	9.62233
14	1,2,3,7,8-PeCDF	0.98929	0.04661	4.71185
15	2,3,4,7,8-PeCDF	0.94936	0.04998	5.26421
16	Total F2 PeCDFs	0.96932	0.04812	4.96464
17	Total F1 PeCDFs	0.96932	0.04812	4.96464
18				
19	13C-1,2,3,7,8-PeCDD	0.77603	0.07472	9.62895
20	1,2,3,7,8-PeCDD	0.96958	0.03870	3.99107
21	Total PeCDDs	0.96958	0.03870	3.99107
22				
23	13C-1,2,3,7,8,9-HxCDD	1.00000	0.00000	0.00000
24				
25	13C-1,2,3,4,7,8-HxCDF	0.97183	0.07570	7.78896
26	1,2,3,4,7,8-HxCDF	1.20038	0.06355	5.29397
27	1,2,3,6,7,8-HxCDF	1.34082	0.07485	5.58214
28	2,3,4,6,7,8-HxCDF	1.25668	0.04314	3.43324
29	1,2,3,7,8,9-HxCDF	1.07528	0.10741	9.98906
30	Total HxCDFs	1.21829	0.06579	5.40021
31				
32	13C-1,2,3,6,7,8-HxCDD	0.89936	0.06718	7.47010
33	1,2,3,4,7,8-HxCDD	0.90180	0.06757	7.49316
34	1,2,3,6,7,8-HxCDD	1.09904	0.05428	4.93847
35	1,2,3,7,8,9-HxCDD	1.06390	0.12987	12.20746
36	Total HxCDDs	1.02158	0.07967	7.79841
37				
38	13C-1,2,3,4,6,7,8-HpCDF	0.84273	0.04470	5.30365
39	1,2,3,4,6,7,8-HpCDF	1.30670	0.07887	6.03564
40	1,2,3,4,7,8,9-HpCDF	1.06434	0.10376	9.74841
41	Total HpCDFs	1.18552	0.09003	7.59427
42				
43	13C-1,2,3,4,6,7,8-HpCDD	0.79749	0.03990	5.00319
44	1,2,3,4,6,7,8-HpCDD	0.99684	0.05299	5.31535
45	Total HpCDDs	0.99684	0.05299	5.31535
46				
47	13C-OCDD	0.59869	0.03502	5.84934

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
Printed: Monday, March 01, 2010 16:29:42 Pacific Standard Time

#	Name	RRF Mean	RRF SD	RRF %Rel SD
48	OCDF	1.26224	0.11865	9.39998
49	OCDD	1.11522	0.06009	5.38825
50				
51				
52	Function 1 PFK	11489.54900	8071.33682	70.24938
53	Function 2 PFK	9733.63550	5820.31117	59.79586
54	Function 3 PFK	5225.13050	1100.08208	21.05368
55	Function 4 PFK	4454.80333	6288.24877	141.15660
56	Function 5 PFK	3910.74167	1894.19759	48.43576
57	TCDF PCDPE	45.93425	43.03779	93.69433
58	F1 PeCDF PCDPE	76.17900	79.72604	104.65619
59	F2 PeCDF PCDPE	92.30900	72.65489	78.70835
60	HXCDF PCDPE	77.61100	82.57176	106.39182
61	HPCDF PCDPE	88.95350	82.45643	92.69610
62	OCDF PCDPE	102.26850	73.15913	71.53632

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
Printed: Monday, March 01, 2010 16:30:00 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 01 Mar 2010 16:27:52
Calibration: 01 Mar 2010 16:27:59

Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

#	Name	Trace	RT	Response	RRF	Mod Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.13	2364985	1.00000		0.778	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.55	3351317	1.41706		0.781	NO
4	2,3,7,8-TCDF	303.9016	18.57	318250	0.94963		0.754	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.34	2356086	0.99624		0.760	NO
8	2,3,7,8-TCDD	319.8965	19.35	246730	1.04720		0.784	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.35	273383	1.15596			
12								
13	13C-1,2,3,7,8-PeCDF	351.9000	24.15	2756814	1.16568		1.600	NO
14	1,2,3,7,8-PeCDF	339.8597	24.18	1416444	1.02759		1.571	NO
15	2,3,4,7,8-PeCDF	339.8597	25.66	1373135	0.99618		1.560	NO
16	Total F2 PeCDFs	339.8597						
17	Total F1 PeCDFs	339.8597						
18								
19	13C-1,2,3,7,8-PeCDD	367.8949	26.44	1985364	0.83948		1.628	NO
20	1,2,3,7,8-PeCDD	355.8546	26.47	980879	0.98811		1.565	NO
21	Total PeCDDs	355.8546						
22								
23	13C-1,2,3,7,8,9-HxCDD	401.8559	32.97	1789550	1.00000		1.291	NO
24								
25	13C-1,2,3,4,7,8-HxCDF	383.8639	31.74	1915628	1.07045		0.511	NO
26	1,2,3,4,7,8-HxCDF	373.8208	31.76	1201649	1.25457		1.235	NO
27	1,2,3,6,7,8-HxCDF	373.8208	31.87	1350244	1.40971		1.254	NO
28	2,3,4,6,7,8-HxCDF	373.8208	32.48	1221201	1.27499		1.213	NO
29	1,2,3,7,8,9-HxCDF	373.8208	33.14	985535	1.02894		1.214	NO
30	Total HxCDFs	373.8208						
31								
32	13C-1,2,3,6,7,8-HxCDD	401.8559	32.69	1723496	0.96309		1.287	NO
33	1,2,3,4,7,8-HxCDD	389.8157	32.62	835884	0.96999		1.244	NO
34	1,2,3,6,7,8-HxCDD	389.8157	32.70	962832	1.11730		1.295	NO
35	1,2,3,7,8,9-HxCDD	389.8157	32.98	907155	1.05269		1.233	NO
36	Total HxCDDs	389.8157						
37								
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.50	1563993	0.87396		0.458	NO
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.51	1080224	1.38137		1.000	NO
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.65	872663	1.11594		1.083	NO
41	Total HpCDFs	407.7818						
42								
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.32	1495048	0.83543		1.022	NO
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.34	788946	1.05541		1.094	NO
45	Total HpCDDs	423.7766						
46								

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
Printed: Monday, March 01, 2010 16:30:00 Pacific Standard Time

Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

#	Name	Trace	RT	Response	RRF	Mod Date	Ratio	Ratio Flag
47	13C-OCDD	469.7779	37.85	2244512	0.62712		0.906	NO
48	OCDF	441.7428	37.97	1492462	1.32988		0.935	NO
49	OCDD	457.7377	37.86	1332444	1.18729		0.868	NO
50								
51								
52	Function 1 PFK	330.97...	18.18	5782	5782.2...			
53	Function 2 PFK	342.97...						
54	Function 3 PFK	380.97...	32.33	4447	4447.2...			
55	Function 4 PFK	430.97...	34.61	11703	11703....			
56	Function 5 PFK	442.97...						
57	TCDF PCDPE	375.8364	21.06	68	67.932...			
58	F1 PeCDF PCDPE	409.79...						
59	F2 PeCDF PCDPE	409.7974						
60	HXCDF PCDPE	445.7555	33.68	213	212.84...			
61	HPCDF PCDPE	479.7165						
62	OCDF PCDPE	513.67...	39.70	191	191.00...			

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
Printed: Monday, March 01, 2010 16:30:00 Pacific Standard Time

Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.11	2292797	1.00000		0.772	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.54	3063515	1.33615		0.782	NO
4	2,3,7,8-TCDF	303.9016	18.57	52610	0.85865		0.764	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.32	2040709	0.89005		0.773	NO
8	2,3,7,8-TCDD	319.8965	19.34	39759	0.97414		0.778	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.34	49607	1.08181			
12								
13	13C-1,2,3,7,8-PeCDF	351.9000	24.13	2352868	1.02620		1.553	NO
14	1,2,3,7,8-PeCDF	339.8597	24.15	222551	0.94587		1.612	NO
15	2,3,4,7,8-PeCDF	339.8597	25.63	212716	0.90407		1.541	NO
16	Total F2 PeCDFs	339.8597						
17	Total F1 PeCDFs	339.8597						
18								
19	13C-1,2,3,7,8-PeCDD	367.8949	26.41	1617570	0.70550		1.572	NO
20	1,2,3,7,8-PeCDD	355.8546	26.45	151414	0.93606		1.581	NO
21	Total PeCDDs	355.8546						
22								
23	13C-1,2,3,7,8,9-HxCDD	401.8559	32.96	1758480	1.00000		1.336	NO
24								
25	13C-1,2,3,4,7,8-HxCDF	383.8639	31.74	1731496	0.98465		0.526	NO
26	1,2,3,4,7,8-HxCDF	373.8208	31.75	198399	1.14582		1.261	NO
27	1,2,3,6,7,8-HxCDF	373.8208	31.87	225242	1.30085		1.285	NO
28	2,3,4,6,7,8-HxCDF	373.8208	32.46	214018	1.23603		1.218	NO
29	1,2,3,7,8,9-HxCDF	373.8208	33.14	169419	0.97845		1.191	NO
30	Total HxCDFs	373.8208						
31								
32	13C-1,2,3,6,7,8-HxCDD	401.8559	32.69	1651226	0.93901		1.259	NO
33	1,2,3,4,7,8-HxCDD	389.8157	32.61	134250	0.81303		1.227	NO
34	1,2,3,6,7,8-HxCDD	389.8157	32.70	172807	1.04654		1.238	NO
35	1,2,3,7,8,9-HxCDD	389.8157	32.97	154900	0.93809		1.310	NO
36	Total HxCDDs	389.8157						
37								
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.50	1461269	0.83098		0.431	NO
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.51	179587	1.22898		1.031	NO
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.65	141801	0.97040		1.084	NO
41	Total HpCDFs	407.7818						
42								
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.32	1361669	0.77434		1.063	NO
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.34	129875	0.95380		1.048	NO
45	Total HpCDDs	423.7766						
46								
47	13C-OCDD	469.7779	37.84	1954952	0.55586		0.929	NO
48	OCDF	441.7428	37.96	219835	1.12450		0.918	NO
49	OCDD	457.7377	37.85	204075	1.04389		0.934	NO

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
Printed: Monday, March 01, 2010 16:30:00 Pacific Standard Time

Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
50								
51								
52	Function 1 PFK	330.97...						
53	Function 2 PFK	342.97...						
54	Function 3 PFK	380.97...						
55	Function 4 PFK	430.97...						
56	Function 5 PFK	442.97...	38.42	4443	4443.0...			
57	TCDF PCDPE	375.8364	21.08	19	19.410...			
58	F1 PeCDF PCDPE	409.79...	18.73	106	105.74...			
59	F2 PeCDF PCDPE	409.7974	23.21	10	9.77000			
60	HXCDF PCDPE	445.7555	33.71	14	13.724...			
61	HPCDF PCDPE	479.7165	34.52	31	30.648...			
62	OCDF PCDPE	513.67...	39.60	120	119.62...			

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
Printed: Monday, March 01, 2010 16:30:00 Pacific Standard Time

Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.13	2361798	1.00000		0.791	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.55	3214735	1.36114		0.774	NO
4	2,3,7,8-TCDF	303.9016	18.57	13854	0.86192		0.753	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.32	2176691	0.92162		0.797	NO
8	2,3,7,8-TCDD	319.8965	19.35	10877	0.99942		0.861	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.35	13161	1.11448			
12								
13	13C-1,2,3,7,8-PeCDF	351.9000	24.13	2469946	1.04579		1.592	NO
14	1,2,3,7,8-PeCDF	339.8597	24.16	57704	0.93449		1.504	NO
15	2,3,4,7,8-PeCDF	339.8597	25.63	55273	0.89513		1.573	NO
16	Total F2 PeCDFs	339.8597						
17	Total F1 PeCDFs	339.8597						
18								
19	13C-1,2,3,7,8-PeCDD	367.8949	26.43	1698414	0.71912		1.590	NO
20	1,2,3,7,8-PeCDD	355.8546	26.45	39093	0.92069		1.588	NO
21	Total PeCDDs	355.8546						
22								
23	13C-1,2,3,7,8,9-HxCDD	401.8559	32.96	1935821	1.00000		1.398	NO
24								
25	13C-1,2,3,4,7,8-HxCDF	383.8639	31.74	1843697	0.95241		0.516	NO
26	1,2,3,4,7,8-HxCDF	373.8208	31.75	51877	1.12549		1.262	NO
27	1,2,3,6,7,8-HxCDF	373.8208	31.87	57372	1.24472		1.222	NO
28	2,3,4,6,7,8-HxCDF	373.8208	32.46	54891	1.19088		1.261	NO
29	1,2,3,7,8,9-HxCDF	373.8208	33.14	46482	1.00845		1.303	NO
30	Total HxCDFs	373.8208						
31								
32	13C-1,2,3,6,7,8-HxCDD	401.8559	32.69	1678133	0.86688		1.326	NO
33	1,2,3,4,7,8-HxCDD	389.8157	32.61	36804	0.87727		1.388	NO
34	1,2,3,6,7,8-HxCDD	389.8157	32.70	43895	1.04629		1.191	NO
35	1,2,3,7,8,9-HxCDD	389.8157	32.97	40797	0.97244		1.271	NO
36	Total HxCDDs	389.8157						
37								
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.50	1666531	0.86089		0.451	NO
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.51	51065	1.22566		1.021	NO
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.65	39159	0.93989		1.064	NO
41	Total HpCDFs	407.7818						
42								
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.32	1551532	0.80149		1.092	NO
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.34	36178	0.93269		1.045	NO
45	Total HpCDDs	423.7766						
46								
47	13C-OCDD	469.7779	37.85	2284858	0.59015		0.911	NO
48	OCDF	441.7428	37.97	65228	1.14191		0.957	NO
49	OCDD	457.7377	37.86	60757	1.06365		0.864	NO

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

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Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
50								
51								
52	Function 1 PFK	330.97...						
53	Function 2 PFK	342.97...	25.57	13849	13849....			
54	Function 3 PFK	380.97...						
55	Function 4 PFK	430.97...	34.62	462	462.31...			
56	Function 5 PFK	442.97...	38.46	5482	5481.8...			
57	TCDF PCDPE	375.8364						
58	F1 PeCDF PCDPE	409.79...	18.89	20	20.053...			
59	F2 PeCDF PCDPE	409.7974	23.22	66	66.022...			
60	HXCDF PCDPE	445.7555	33.66	49	48.588...			
61	HPCDF PCDPE	479.7165						
62	OCDF PCDPE	513.67...	39.58	16	15.649...			

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
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Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.11	2187117	1.00000		0.779	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.54	3290031	1.50428		0.801	NO
4	2,3,7,8-TCDF	303.9016	18.55	6377773	0.96926		0.765	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.32	2248331	1.02799		0.784	NO
8	2,3,7,8-TCDD	319.8965	19.34	4899839	1.08966		0.797	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.34	5439660	1.24357			
12								
13	13C-1,2,3,7,8-PeCDF	351.9000	24.13	2806319	1.28311		1.594	NO
14	1,2,3,7,8-PeCDF	339.8597	24.15	28141493	1.00279		1.551	NO
15	2,3,4,7,8-PeCDF	339.8597	25.62	26633745	0.94906		1.548	NO
16	Total F2 PeCDFs	339.8597						
17	Total F1 PeCDFs	339.8597						
18								
19	13C-1,2,3,7,8-PeCDD	367.8949	26.40	1905969	0.87145		1.639	NO
20	1,2,3,7,8-PeCDD	355.8546	26.44	18958636	0.99470		1.579	NO
21	Total PeCDDs	355.8546						
22								
23	13C-1,2,3,7,8,9-HxCDD	401.8559	32.96	2063670	1.00000		1.284	NO
24								
25	13C-1,2,3,4,7,8-HxCDF	383.8639	31.74	2044436	0.99068		0.519	NO
26	1,2,3,4,7,8-HxCDF	373.8208	31.75	24696987	1.20801		1.240	NO
27	1,2,3,6,7,8-HxCDF	373.8208	31.87	27121636	1.32661		1.260	NO
28	2,3,4,6,7,8-HxCDF	373.8208	32.46	26303985	1.28661		1.297	NO
29	1,2,3,7,8,9-HxCDF	373.8208	33.14	22828081	1.11660		1.278	NO
30	Total HxCDFs	373.8208						
31								
32	13C-1,2,3,6,7,8-HxCDD	401.8559	32.69	1920145	0.93045		1.333	NO
33	1,2,3,4,7,8-HxCDD	389.8157	32.61	16877625	0.87898		1.231	NO
34	1,2,3,6,7,8-HxCDD	389.8157	32.70	21311956	1.10991		1.257	NO
35	1,2,3,7,8,9-HxCDD	389.8157	32.97	20848679	1.08579		1.287	NO
36	Total HxCDDs	389.8157						
37								
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.50	1811806	0.87795		0.433	NO
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.51	23716064	1.30897		1.047	NO
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.65	20197358	1.11476		1.026	NO
41	Total HpCDFs	407.7818						
42								
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.32	1720913	0.83391		1.021	NO
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.34	17263231	1.00314		1.051	NO
45	Total HpCDDs	423.7766						
46								
47	13C-OCDD	469.7779	37.85	2646442	0.64120		0.891	NO
48	OCDF	441.7428	37.97	35690858	1.34864		0.912	NO
49	OCDD	457.7377	37.86	29914861	1.13038		0.881	NO

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

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Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

#	Name	Trace	RT	Response	RRF	Mod Date	Ratio	Ratio Flag
50								
51								
52	Function 1 PFK	330.97...	18.10	17197	17196....			
53	Function 2 PFK	342.97...	25.47	5618	5618.0...			
54	Function 3 PFK	380.97...						
55	Function 4 PFK	430.97...						
56	Function 5 PFK	442.97...						
57	TCDF PCDPE	375.8364	21.14	2	1.51200			
58	F1 PeCDF PCDPE	409.79...	18.86	4	3.75300			
59	F2 PeCDF PCDPE	409.7974	23.28	112	112.00...			
60	HXCDF PCDPE	445.7555	33.79	17	16.665...			
61	HPCDF PCDPE	479.7165						
62	OCDF PCDPE	513.67...						

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
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Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.13	2432299	1.00000		0.795	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.55	3380927	1.39001		0.803	NO
4	2,3,7,8-TCDF	303.9016	18.57	1308159	0.96731		0.765	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.34	2218645	0.91216		0.762	NO
8	2,3,7,8-TCDD	319.8965	19.35	961187	1.08308		0.779	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.35	1096896	1.12743			
12								
13	13C-1,2,3,7,8-PeCDF	351.9000	24.13	2585644	1.06305		1.594	NO
14	1,2,3,7,8-PeCDF	339.8597	24.16	5355896	1.03570		1.564	NO
15	2,3,4,7,8-PeCDF	339.8597	25.63	5183395	1.00234		1.543	NO
16	Total F2 PeCDFs	339.8597						
17	Total F1 PeCDFs	339.8597						
18								
19	13C-1,2,3,7,8-PeCDD	367.8949	26.43	1811035	0.74458		1.575	NO
20	1,2,3,7,8-PeCDD	355.8546	26.45	3652230	1.00833		1.586	NO
21	Total PeCDDs	355.8546						
22								
23	13C-1,2,3,7,8,9-HxCDD	401.8559	32.97	2158757	1.00000		1.276	NO
24								
25	13C-1,2,3,4,7,8-HxCDF	383.8639	31.74	1858567	0.86094		0.516	NO
26	1,2,3,4,7,8-HxCDF	373.8208	31.76	4713343	1.26800		1.290	NO
27	1,2,3,6,7,8-HxCDF	373.8208	31.87	5286599	1.42222		1.224	NO
28	2,3,4,6,7,8-HxCDF	373.8208	32.48	4813242	1.29488		1.255	NO
29	1,2,3,7,8,9-HxCDF	373.8208	33.15	4623959	1.24396		1.262	NO
30	Total HxCDFs	373.8208						
31								
32	13C-1,2,3,6,7,8-HxCDD	401.8559	32.69	1721352	0.79738		1.272	NO
33	1,2,3,4,7,8-HxCDD	389.8157	32.62	3338449	0.96972		1.267	NO
34	1,2,3,6,7,8-HxCDD	389.8157	32.70	4045688	1.17515		1.315	NO
35	1,2,3,7,8,9-HxCDD	389.8157	32.98	4373853	1.27047		1.395	NO
36	Total HxCDDs	389.8157						
37								
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.51	1661984	0.76988		0.441	NO
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.52	4615340	1.38850		1.022	NO
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.65	3924647	1.18071		1.049	NO
41	Total HpCDFs	407.7818						
42								
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.32	1602360	0.74226		1.078	NO
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.34	3330255	1.03917		1.011	NO
45	Total HpCDDs	423.7766						
46								
47	13C-OCDD	469.7779	37.85	2500302	0.57911		0.889	NO
48	OCDF	441.7428	37.97	6832197	1.36627		0.901	NO
49	OCDD	457.7377	37.86	5755066	1.15087		0.896	NO

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
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Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
50								
51								
52	Function 1 PFK	330.97...						
53	Function 2 PFK	342.97...						
54	Function 3 PFK	380.97...	32.30	6003	6003.0...			
55	Function 4 PFK	430.97...	34.60	1199	1198.7...			
56	Function 5 PFK	442.97...	38.53	1807	1807.3...			
57	TCDF PCDPE	375.8364	21.12	95	94.883...			
58	F1 PeCDF PCDPE	409.79...	18.83	175	175.17...			
59	F2 PeCDF PCDPE	409.7974	23.23	181	181.44...			
60	HXCDF PCDPE	445.7555	33.73	96	96.237...			
61	HPCDF PCDPE	479.7165	34.51	147	147.25...			
62	OCDF PCDPE	513.67...	39.62	83	82.800...			

Sample List Report **MassLynx 4.1**

Sample List: C:\MassLynx\JAN2010.PRO\SampleDB\01MR103D5.SPL
Last Modified: Monday, March 01, 2010 14:23:18 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:22 Pacific Standard Time Page Position (1, 1)

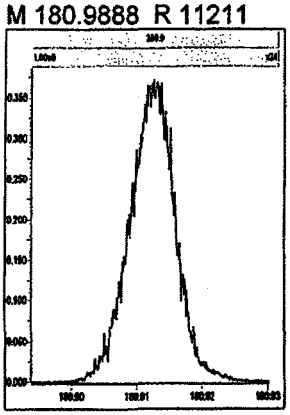
	File Name	File Text	Sample ID	Meth/Matrix	BOX #	Sample Size	Units	Bottle	FV_uL
1	01MR103D5_01	CS-3 10DXN049	ST0301	---	---	1.000000	---	Tray01:1	---
2	01MR103D5_02	CS-2 09DXN423	ST0301A	---	---	1.000000	---	Tray01:2	---
3	01MR103D5_03	CS-1 09DXN422	ST0301B	---	---	1.000000	---	Tray01:3	---
4	01MR103D5_04	CS-5 09DXN456	ST0301C	---	---	1.000000	---	Tray01:4	---
5	01MR103D5_05	CS-4 09DXN426	ST0301D	---	---	1.000000	---	Tray01:5	---
6	01MR103D5_06	2nd Source 09DXN449	ST0301E	1613B/8290		1.000000	---	Tray01:6	20
7	01MR103D5_07	DB5 CPSM 3732-05	CP0301	---	---	1.000000	---	Tray01:7	---

Inj Vol	Sam Typ	Analyst	MS File	Inl File	ConA	ConB	ConC	ConD	ConE	ConF	ConG
2.000000	Standard	JRB	Dioxin3D5	dioxin	10	50	100	100	200	10	100
2.000000	Standard	JRB	Dioxin3D5	dioxin	2	10	20	100	200	2	100
2.000000	Standard	JRB	Dioxin3D5	dioxin	0.5	2.5	5	100	200	0.5	100
2.000000	Standard	JRB	Dioxin3D5	dioxin	200	1000	2000	100	200	200	100
2.000000	Standard	JRB	Dioxin3D5	dioxin	40	200	400	100	200	40	100
2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	2000	4000	200	2000
2.000000	Analyte	JRB	Dioxin3D5	dioxin	---	---	---	---	---	---	---

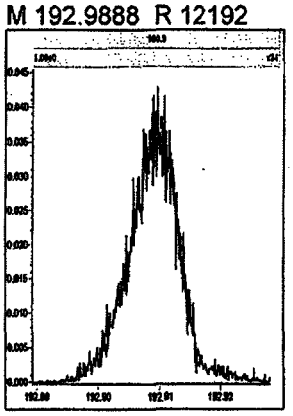
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, March 01, 2010 09:44:35 Pacific Standard Time

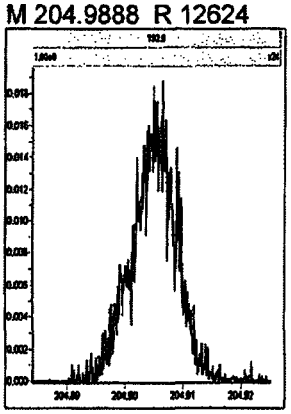
M 180.9888 R 11211



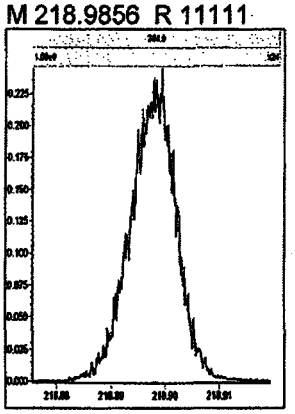
M 192.9888 R 12192



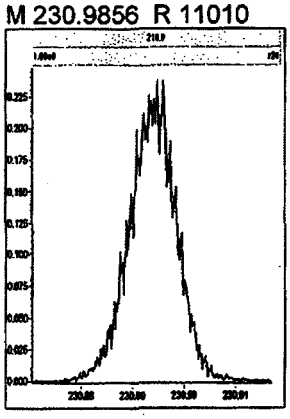
M 204.9888 R 12624



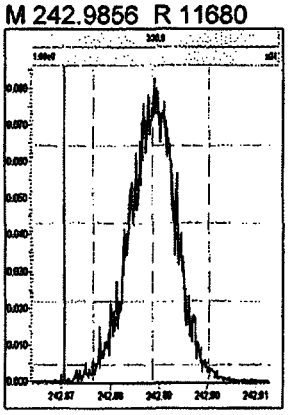
M 218.9856 R 11111



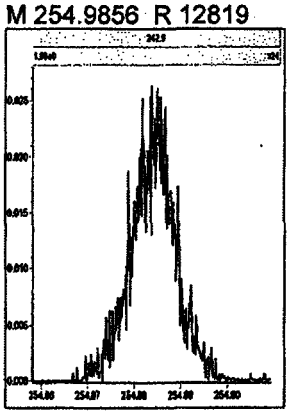
M 230.9856 R 11010



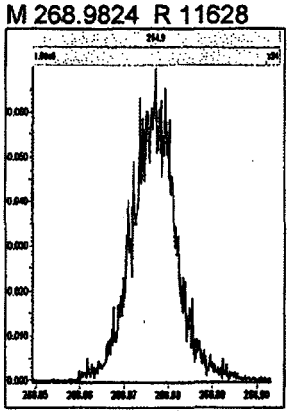
M 242.9856 R 11680



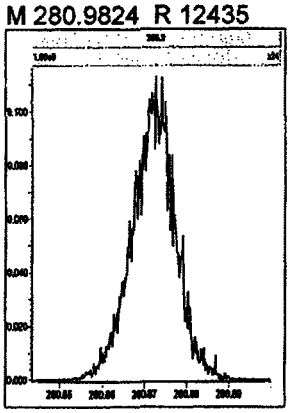
M 254.9856 R 12819



M 268.9824 R 11628



M 280.9824 R 12435



File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

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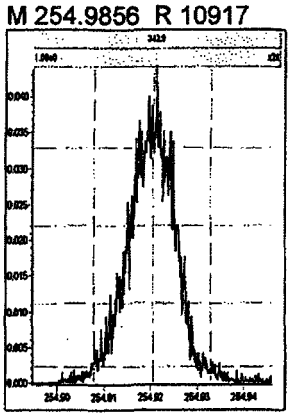
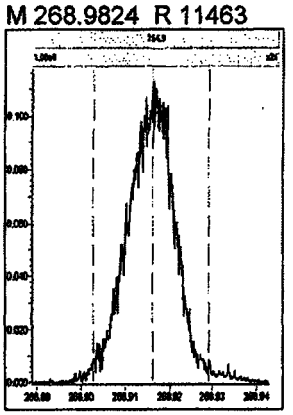
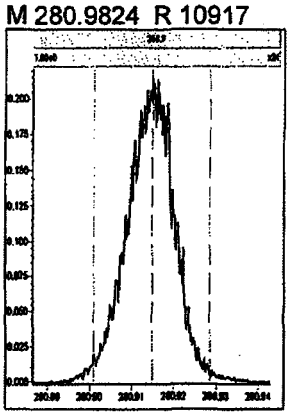
M 254.9856 R 10917



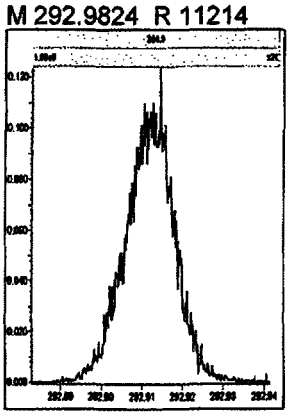
M 268.9824 R 11463



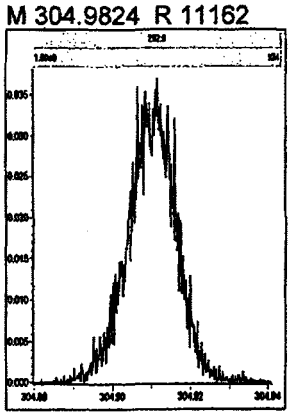
M 280.9824 R 10917



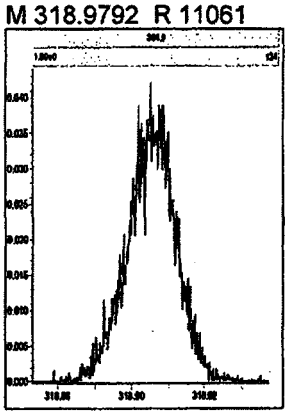
M 292.9824 R 11214



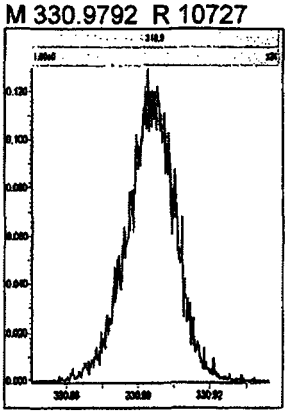
M 304.9824 R 11162



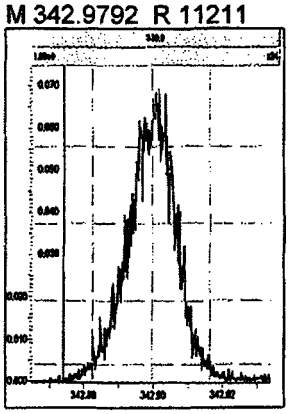
M 318.9792 R 11061



M 330.9792 R 10727



M 342.9792 R 11211

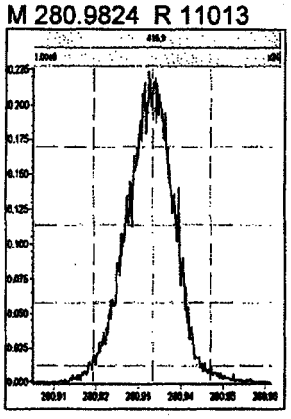


Experiment Calibration Report **MassLynx 4.1**

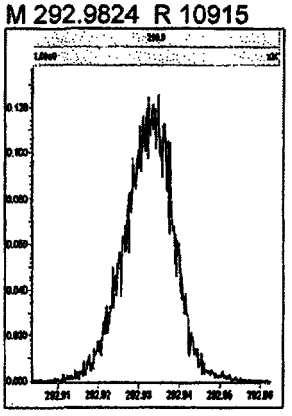
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, March 01, 2010 09:46:00 Pacific Standard Time

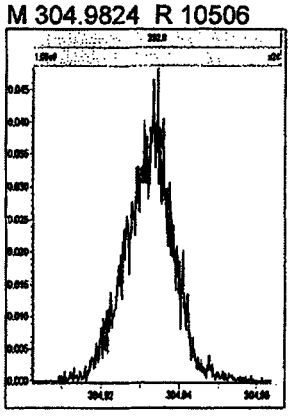
M 280.9824 R 11013



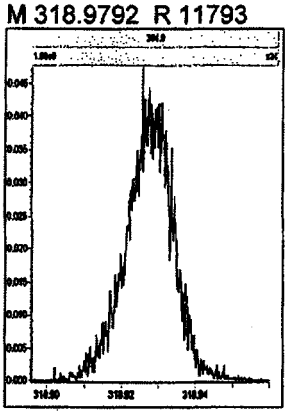
M 292.9824 R 10915



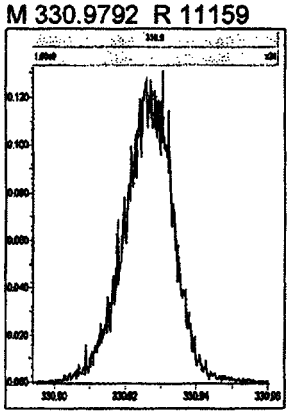
M 304.9824 R 10506



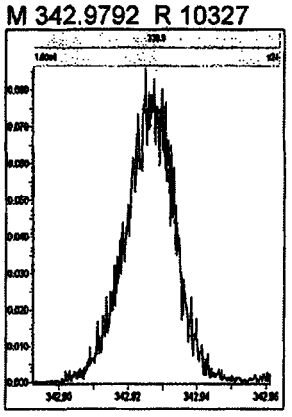
M 318.9792 R 11793



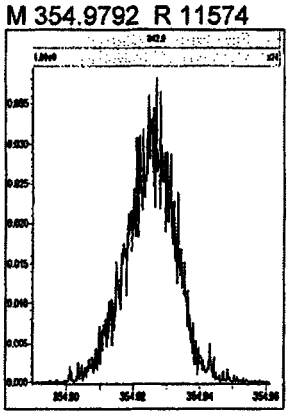
M 330.9792 R 11159



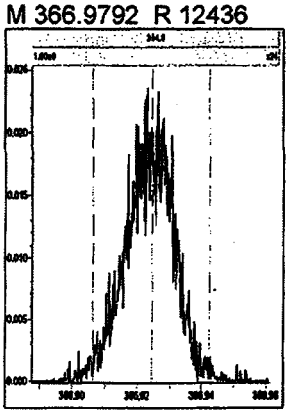
M 342.9792 R 10327



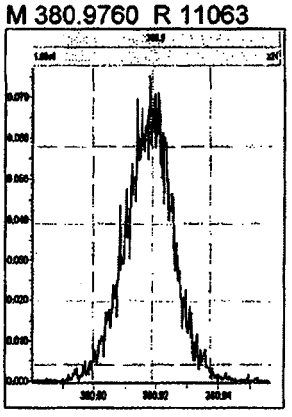
M 354.9792 R 11574



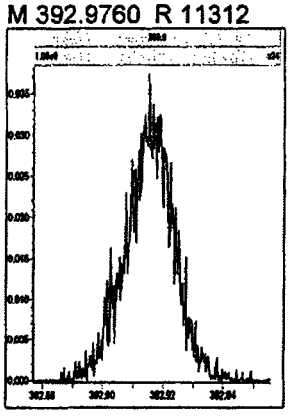
M 366.9792 R 12436



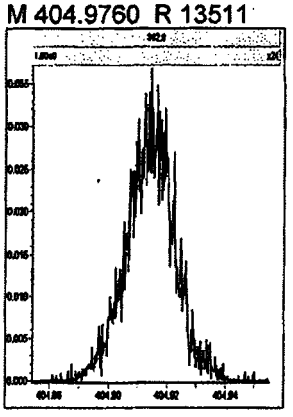
M 380.9760 R 11063



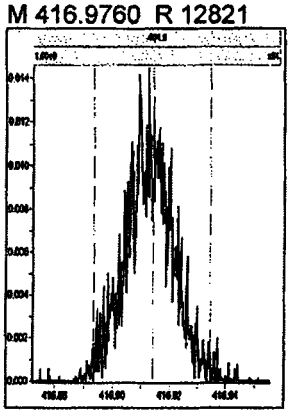
M 392.9760 R 11312



M 404.9760 R 13511



M 416.9760 R 12821

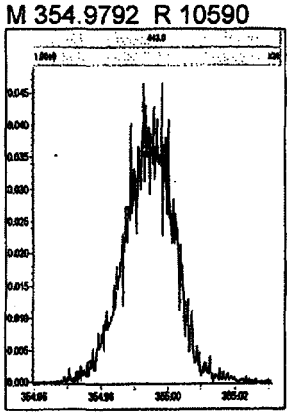


Experiment Calibration Report **MassLynx 4.1** Page 1 of 1

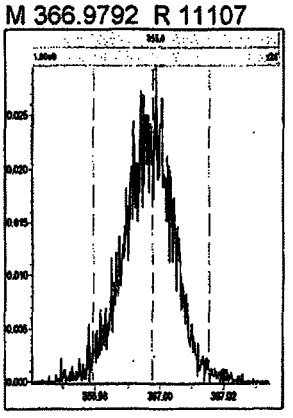
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, March 01, 2010 09:46:35 Pacific Standard Time

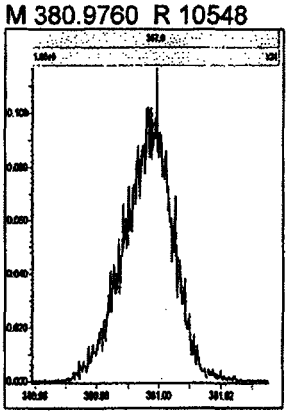
M 354.9792 R 10590



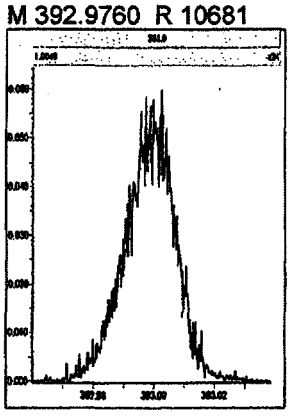
M 366.9792 R 11107



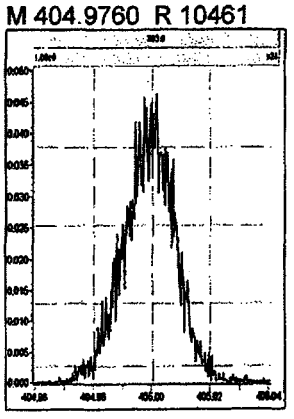
M 380.9760 R 10548



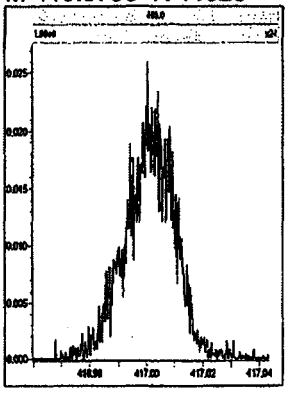
M 392.9760 R 10681



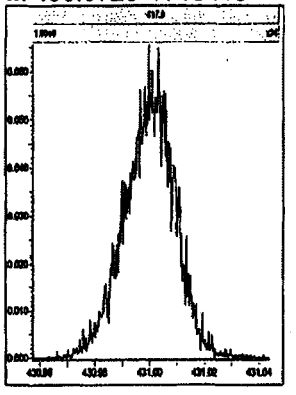
M 404.9760 R 10461



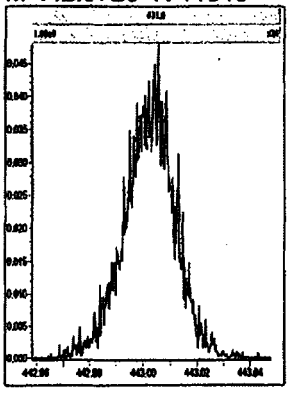
M 416.9760 R 11520



M 430.9728 R 10415



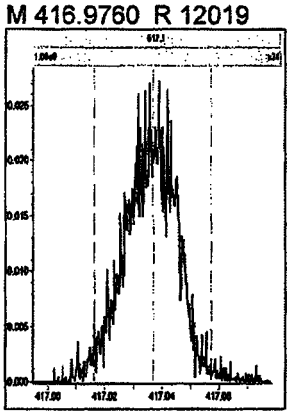
M 442.9728 R 11313



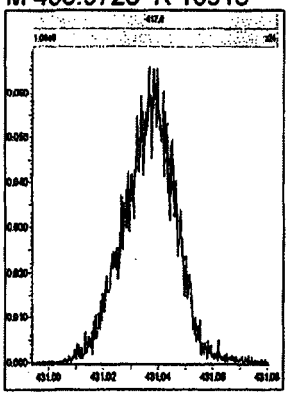
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, March 01, 2010 09:47:40 Pacific Standard Time

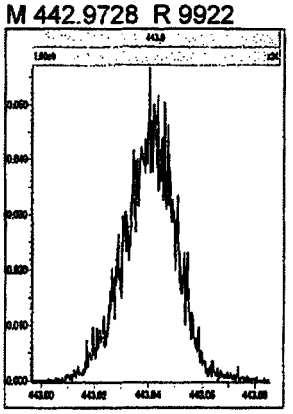
M 416.9760 R 12019



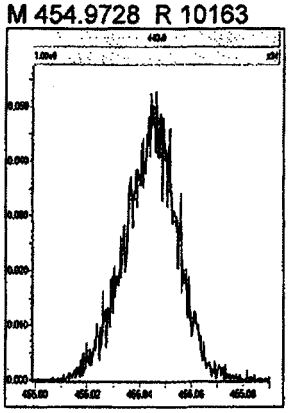
M 430.9728 R 10916



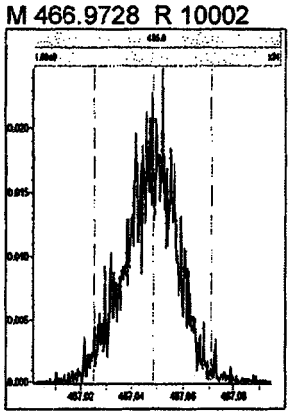
M 442.9728 R 9922



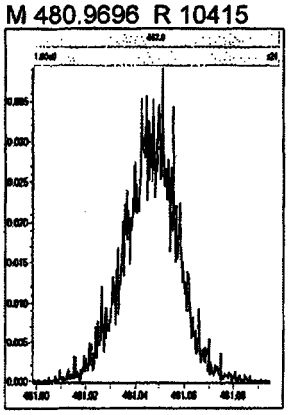
M 454.9728 R 10163



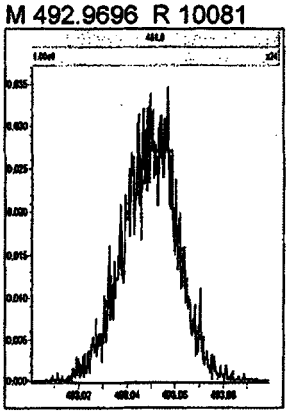
M 466.9728 R 10002



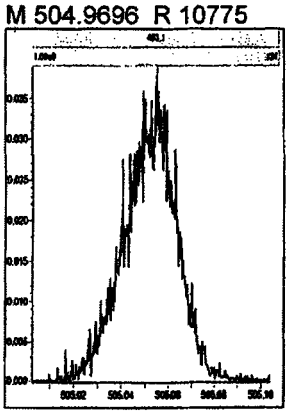
M 480.9696 R 10415



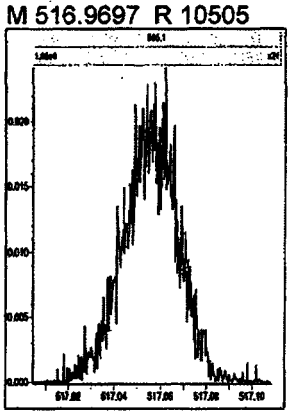
M 492.9696 R 10081



M 504.9696 R 10775



M 516.9697 R 10505

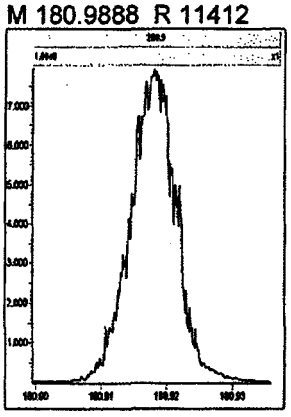


Experiment Calibration Report **MassLynx 4.1** Page 1 of 1

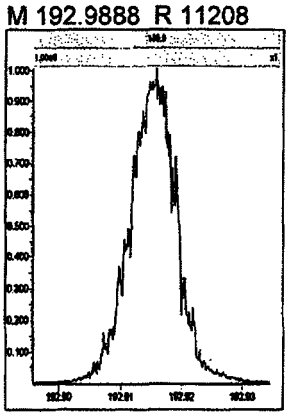
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, March 01, 2010 15:11:32 Pacific Standard Time

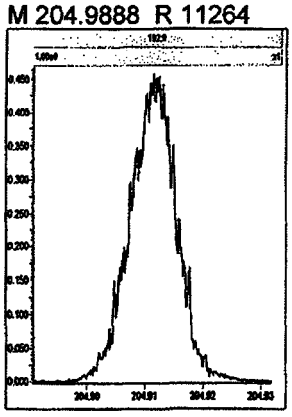
M 180.9888 R 11412



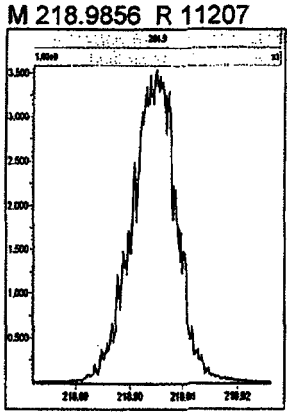
M 192.9888 R 11208



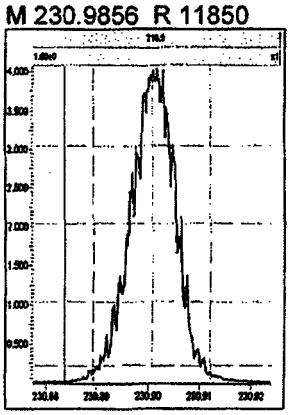
M 204.9888 R 11264



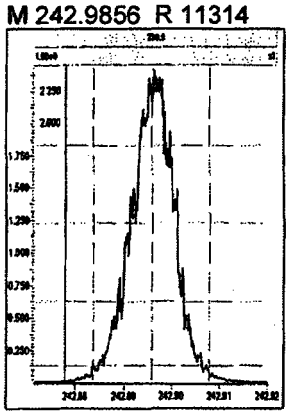
M 218.9856 R 11207



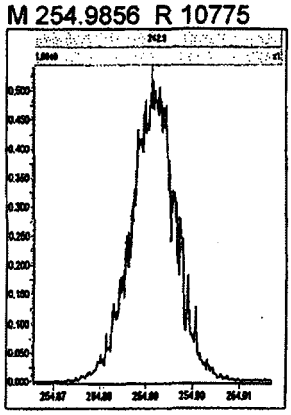
M 230.9856 R 11850



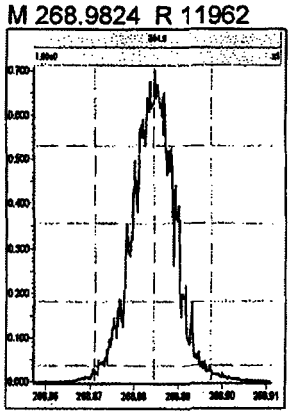
M 242.9856 R 11314



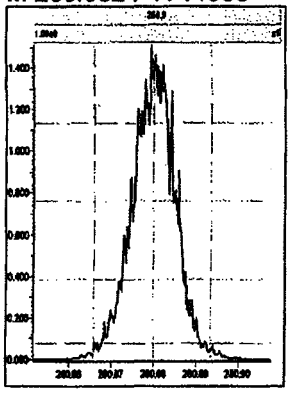
M 254.9856 R 10775



M 268.9824 R 11962



M 280.9824 R 11966

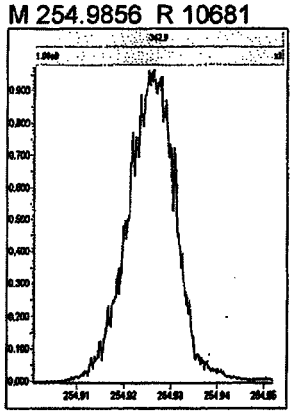


Experiment Calibration Report **MassLynx 4.1** Page 1 of 1

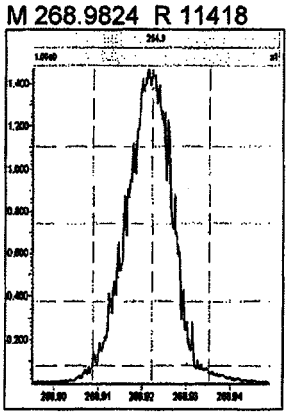
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, March 01, 2010 15:11:54 Pacific Standard Time

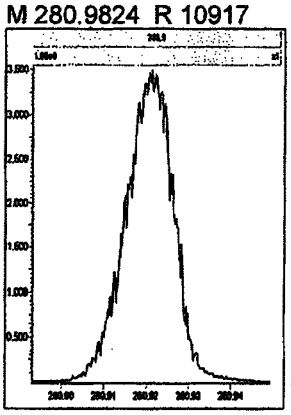
M 254.9856 R 10681



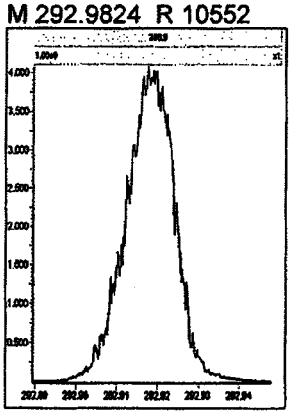
M 268.9824 R 11418



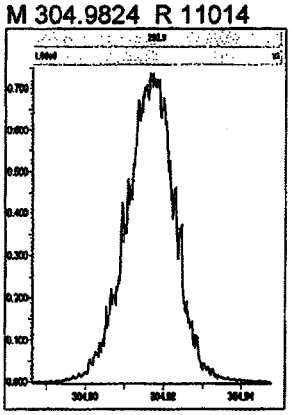
M 280.9824 R 10917



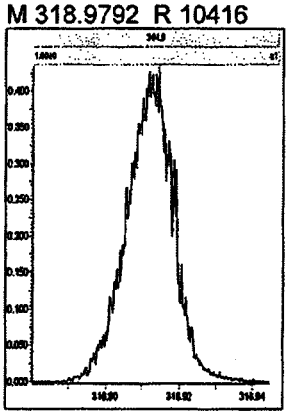
M 292.9824 R 10552



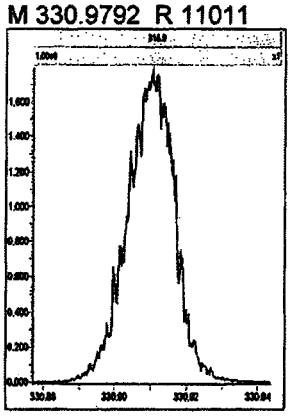
M 304.9824 R 11014



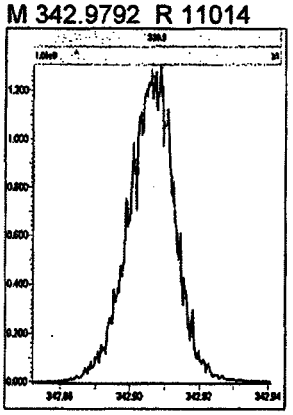
M 318.9792 R 10416



M 330.9792 R 11011



M 342.9792 R 11014

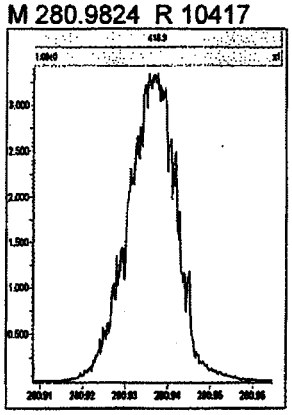


Experiment Calibration Report **MassLynx 4.1**

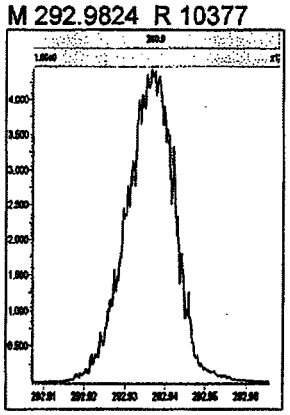
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, March 01, 2010 15:12:50 Pacific Standard Time

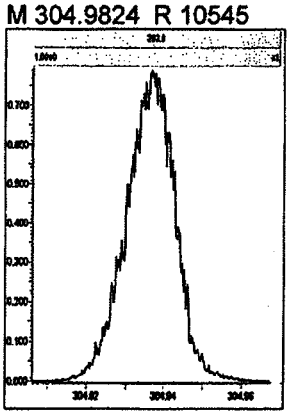
M 280.9824 R 10417



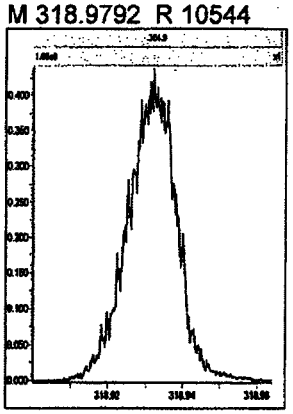
M 292.9824 R 10377



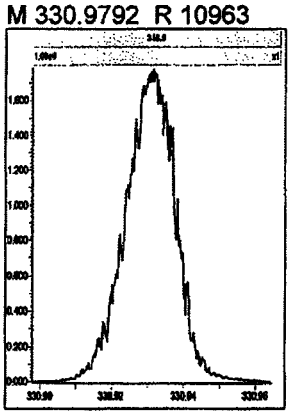
M 304.9824 R 10545



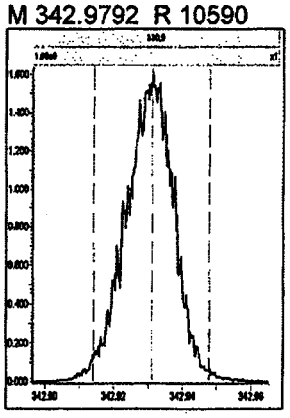
M 318.9792 R 10544



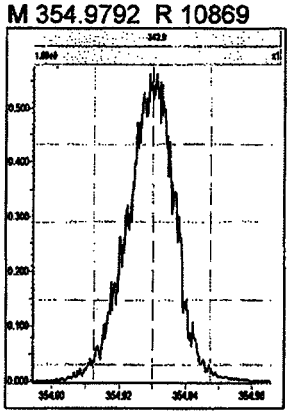
M 330.9792 R 10963



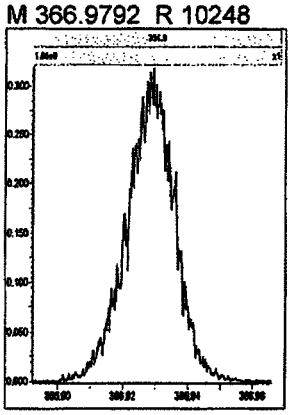
M 342.9792 R 10590



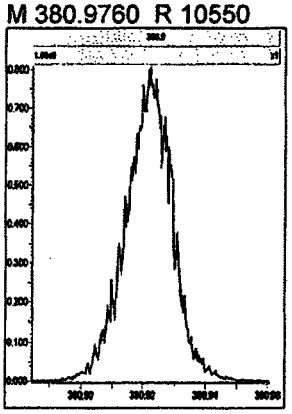
M 354.9792 R 10869



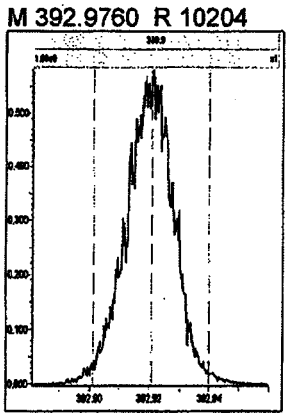
M 366.9792 R 10248



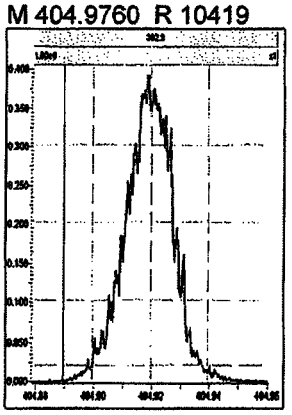
M 380.9760 R 10550



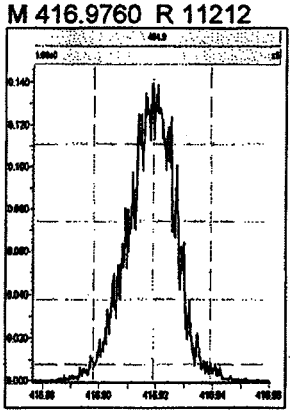
M 392.9760 R 10204



M 404.9760 R 10419



M 416.9760 R 11212



File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

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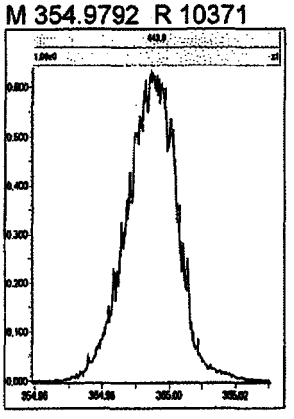
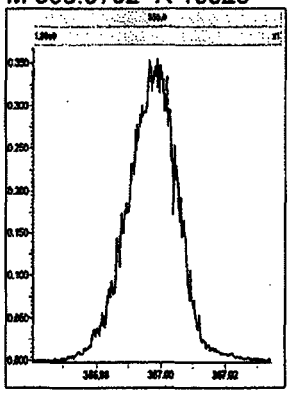
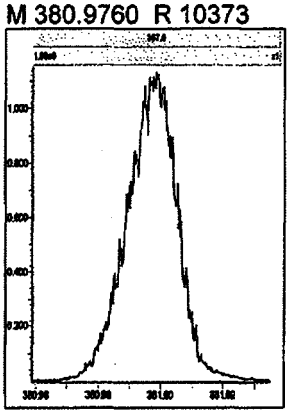
M 354.9792 R 10371



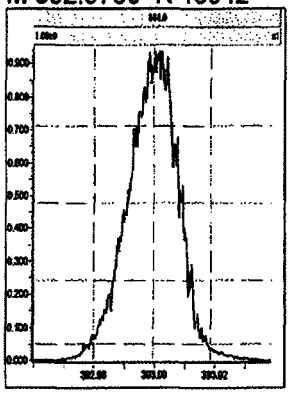
M 366.9792 R 10326



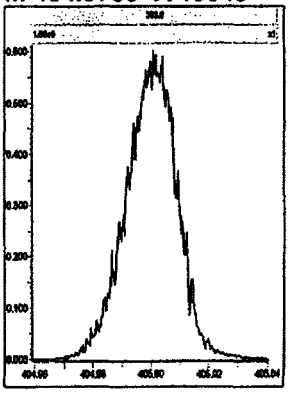
M 380.9760 R 10373



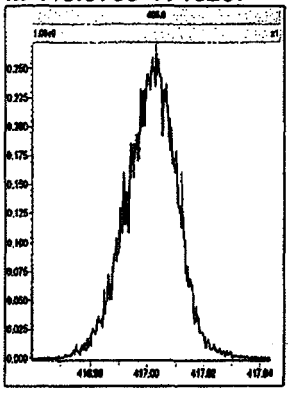
M 392.9760 R 10042



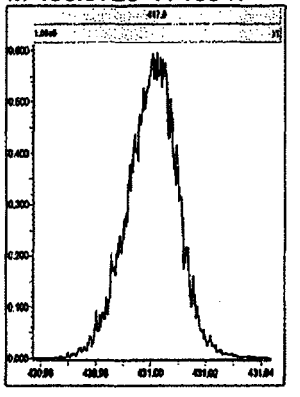
M 404.9760 R 10040



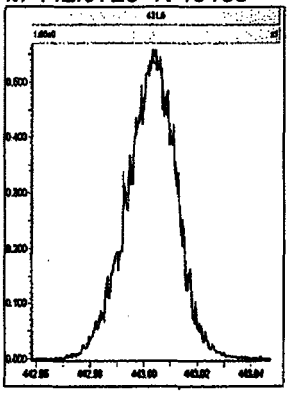
M 416.9760 R 10287



M 430.9728 R 10547



M 442.9728 R 10159



File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

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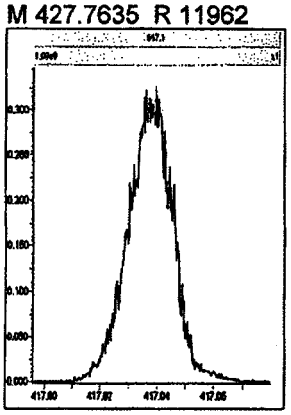
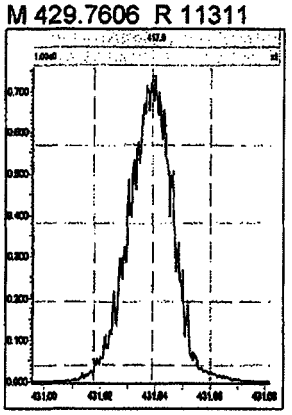
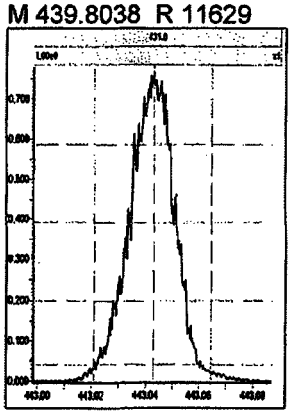
M 427.7635 R 11962



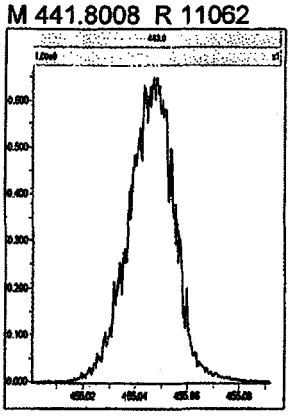
M 429.7606 R 11311



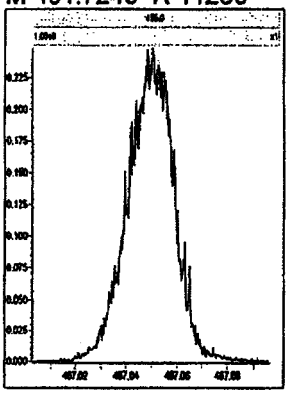
M 439.8038 R 11629



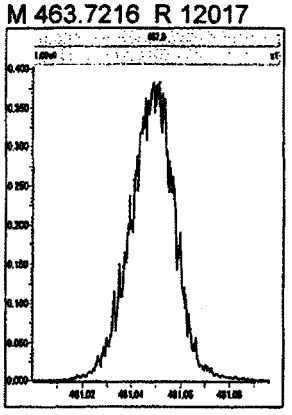
M 441.8008 R 11062



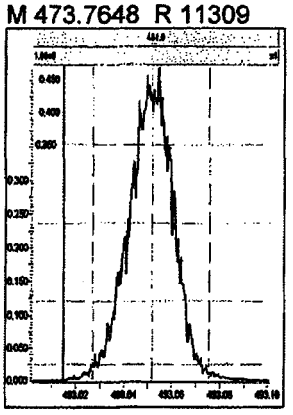
M 461.7245 R 11260



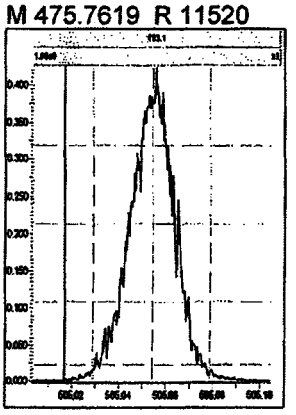
M 463.7216 R 12017



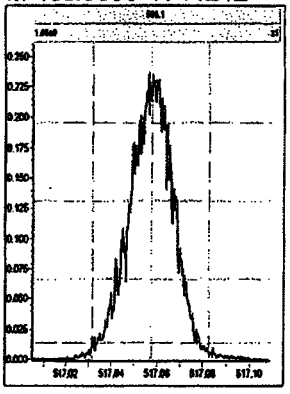
M 473.7648 R 11309



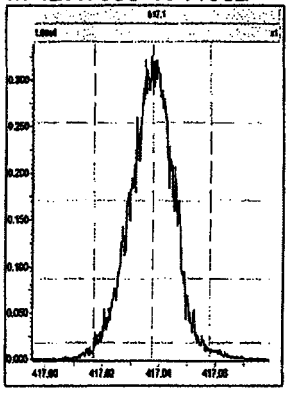
M 475.7619 R 11520



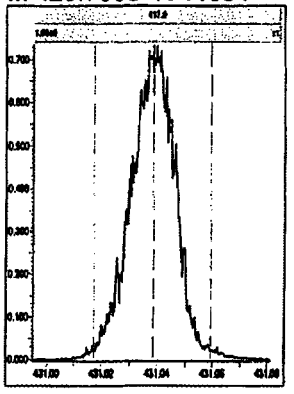
M 480.9696 R 11212



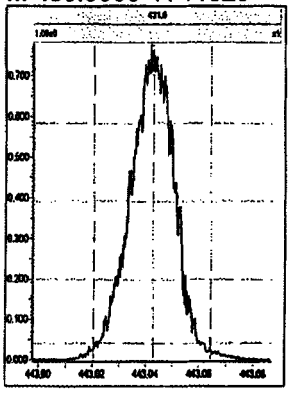
M 427.7635 R 11682



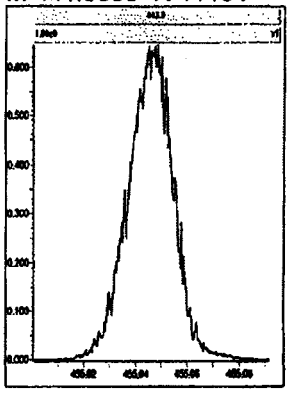
M 429.7606 R 11681

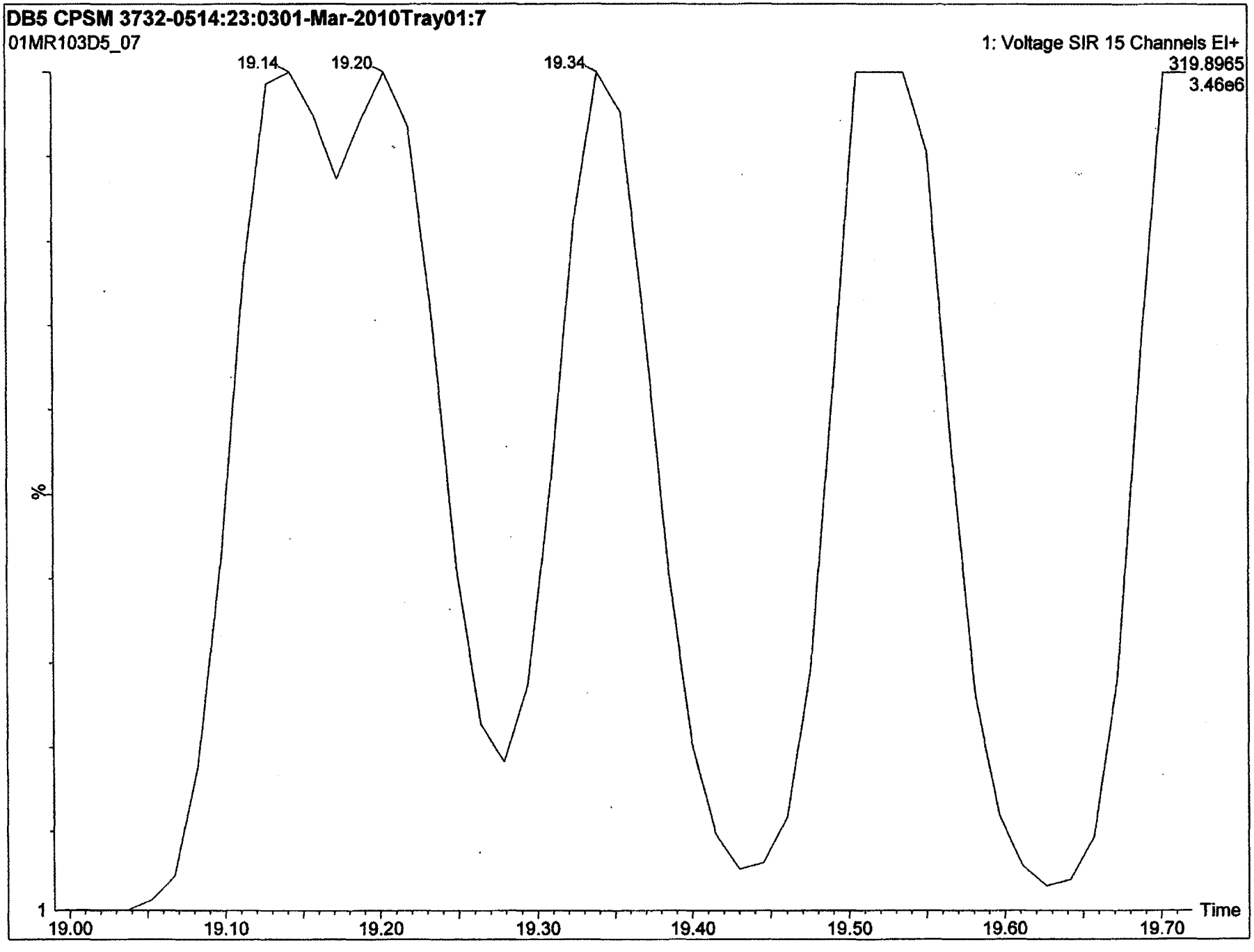


M 439.8038 R 11629



M 441.8008 R 11161




DB5 CPSM 3732-0514:23:0301-Mar-2010Tray01:7
01MR103D5_07
1: Voltage SIR 15 Channels EI+
319.8965
3.46e6
19.14
19.20
19.34
%
1
Time
19.00
19.10
19.20
19.30
19.40
19.50
19.60
19.70

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

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Printed: Monday, March 01, 2010 14:22:32 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\16133D5.mdb 01 Mar 2010 14:17:18
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D51613.cdb 01 Mar 2010 14:19:06

Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449, Task:

#	Name	Trace	Sample Size	RT	Prd.RT	RRF	M.	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Prd.Ratio	Ratio...	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	1.000	19.11	19.11	1.000		2328000.63	2000.0000	2000.0000	100.0	1.0650	0.781	0.770	NO	
2																
3	13C-2,3,7,8-TCDF	315.9419	1.000	18.54	18.55	1.402		3438076.38	2107.1676	2107.1676	105.4	0.9986	0.788	0.770	NO	
4	2,3,7,8-TCDF	303.9016	1.000	18.55	18.55	0.921		307551.42	194.1808	194.1808		0.2974	0.775	0.770	NO	
5	Total TCDFs	303.9016	1.000		21.44	0.921			194.1808	194.1808		0.2974				
6																
7	13C-2,3,7,8-TCDD	331.9368	1.000	19.31	19.32	0.950		2352179.56	2127.9969	2127.9969	106.4	1.1215	0.788	0.770	NO	
8	2,3,7,8-TCDD	319.8965	1.000	19.34	19.34	1.039		234382.01	191.8637	191.8637		0.2985	0.787	0.770	NO	
9	Total TCDDs	319.8965	1.000		22.69	1.039			191.8637	191.8637		0.2985				
10																
11	37CL-2,3,7,8-TCDD	327.8847	1.000	19.34	19.34	1.145		281662.94	211.3996	0.0000	105.7	0.3072				
12																
13	13C-1,2,3,7,8-PeCDF	351.9000	1.000	24.12	24.11	1.117		2758911.88	2122.3777	2122.3777	106.1	1.9251	1.596	1.550	NO	
14	1,2,3,7,8-PeCDF	339.8597	1.000	24.14	24.15	0.989		660488.20	483.9873	483.9873		0.7000	1.598	1.550	NO	
15	13C-2,3,4,7,8-PeCDF	351.9000	1.000	25.59	25.59	1.096		2675006.94	2096.7224	2096.7224	104.8	1.9615	1.574	1.550	NO	
16	2,3,4,7,8-PeCDF	339.8597	1.000	25.62	25.61	0.967		625559.41	483.8216	483.8216		0.8139	1.558	1.550	NO	
17	Total F2 PeCDFs	339.8597	1.000		34.47	0.978			967.8088	967.8088		0.7555				
18	Total F1 PeCDFs	339.8597	1.000		36.56	0.978						0.2481				
19																
20	13C-1,2,3,7,8-PeCDD	367.8949	1.000	26.40	26.41	0.776		1908829.38	2113.1846	2113.1846	105.7	1.7923	1.586	1.550	NO	
21	1,2,3,7,8-PeCDD	355.8546	1.000	26.43	26.43	0.970		443952.92	479.7532	479.7532		0.9221	1.614	1.550	NO	
22	Total PeCDDs	355.8546	1.000		31.10	0.970			479.7532	479.7532		0.9221				
23																
24	13C-1,2,3,7,8,9-HxCDD	401.8559	1.000	32.96	32.97	1.000		1907622.13	2000.0000	2000.0000	100.0	2.0159	1.266	1.240	NO	
25																
26	13C-1,2,3,4,7,8-HxCDF	383.8639	1.000	31.72	31.72	0.972		2020911.81	2180.1959	2180.1959	109.0	2.5781	0.514	0.510	NO	
27	1,2,3,4,7,8-HxCDF	373.8208	1.000	31.74	31.75	1.200		567096.09	467.5418	467.5418		0.6446	1.240	1.240	NO	
28	13C-1,2,3,6,7,8-HxCDF	383.8639	1.000	31.85	31.85	1.213		2508816.69	2168.8920	2168.8920	108.4	2.0659	0.505	0.510	NO	
29	1,2,3,6,7,8-HxCDF	373.8208	1.000	31.86	31.86	1.074		650400.84	482.5727	482.5727		0.5970	1.252	1.240	NO	
30	13C-2,3,4,6,7,8-HxCDF	383.8639	1.000	32.44	32.45	1.079		2193240.19	2130.7183	2130.7183	106.5	2.3216	0.526	0.510	NO	
31	2,3,4,6,7,8-HxCDF	373.8208	1.000	32.46	32.45	1.132		580551.48	467.7309	467.7309		0.5890	1.266	1.240	NO	

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

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Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449, Task:

#	Name	Trace	Sample Size	RT	Prd.RT	RRF	M...	Abs Resp	Conc.	EMPC	%Rec	EDL	Ratio	Prd.Ratio	Ratio...	Mod Date
32	13C-1,2,3,7,8,9-HxCDF	383.8639	1.000	33.13	33.13	0.951		2040641.38	2248.6006	2248.6006	112.4	2.6333	0.509	0.510	NO	
33	1,2,3,7,8,9-HxCDF	373.8208	1.000	33.14	33.14	1.094		549193.14	492.1002	492.1002		0.6457	1.289	1.240	NO	
34	Total HxCDFs	373.8208	1.000		0.00	1.125			1909.9456	1909.9456		0.6162				
35																
36	13C-1,2,3,4,7,8-HxCDD	401.8559	1.000	32.60	32.60	0.817		1731629.50	2222.2451	2222.2451	111.1	2.4676	1.269	1.240	NO	
37	1,2,3,4,7,8-HxCDD	389.8157	1.000	32.61	32.61	0.993		441529.34	513.7151	513.7151		0.6316	1.228	1.240	NO	
38	13C-1,2,3,6,7,8-HxCDD	401.8559	1.000	32.67	32.67	0.899		1805002.38	2104.1686	2104.1686	105.2	2.2415	1.256	1.240	NO	
39	1,2,3,6,7,8-HxCDD	389.8157	1.000	32.69	32.69	1.099		477311.91	481.2178	481.2178		0.5917	1.264	1.240	NO	
40	1,2,3,7,8,9-HxCDD	389.8157	1.000	32.97	32.98	1.115		480184.11	487.0681	487.0681		0.5730	1.322	1.240	NO	
41	Total HxCDDs	389.8157	1.000		0.00	1.069			1482.0010	1482.0010		0.5977				
42																
43	13C-1,2,3,4,6,7,8-HpCDF	417.8253	1.000	34.50	34.50	0.843		1788999.69	2225.6543	2225.6543	111.3	4.1494	0.468	0.440	NO	
44	1,2,3,4,6,7,8-HpCDF	407.7818	1.000	34.51	34.51	1.307		564872.41	483.2762	483.2762		1.0736	1.030	1.040	NO	
45	13C-1,2,3,4,7,8,9-HpCDF	417.8253	1.000	35.64	35.64	0.693		1496568.69	2265.0236	2265.0236	113.3	5.0479	0.429	0.440	NO	
46	1,2,3,4,7,8,9-HpCDF	407.7818	1.000	35.65	35.64	1.293		471265.83	487.1612	487.1612		1.4429	1.019	1.040	NO	
47	Total HpCDFs	407.7818	1.000		0.00	1.300			970.4374	970.4374		1.2415				
48																
49	13C-1,2,3,4,6,7,8-HpCDD	435.8169	1.000	35.31	35.31	0.797		1736021.94	2282.2838	2282.2838	114.1	3.8774	0.999	1.040	NO	
50	1,2,3,4,6,7,8-HpCDD	423.7766	1.000	35.32	35.32	0.997		422869.31	488.7129	488.7129		0.9531	1.093	1.040	NO	
51	Total HpCDDs	423.7766	1.000		-0.01	0.997			488.7129	488.7129		0.9531				
52																
53	13C-OCDD	469.7779	1.000	37.84	37.84	0.599		2601861.13	4556.3970	4556.3970	113.9	5.6021	0.897	0.890	NO	
54	OCDF	441.7428	1.000	37.96	37.96	1.262		798526.19	972.5743	972.5743		1.0863	0.952	0.890	NO	
55	OCDD	457.7377	1.000	37.85	37.85	1.115		702641.38	968.6141	968.6141		1.0568	0.908	0.890	NO	
56																
57																
58	Function 1 PFK	330.97920	1.000		15.62	3769.5...						0.0000				
59	Function 3 PFK	380.97600	1.000	32.22	32.30	5225.1...		3664.44	0.7013		70.1	1.5459				
60	Function 2 PFK	342.97920	1.000		25.55	9733.6...						0.0000				
61	Function 4 PFK	430.97290	1.000		34.60	4454.8...						0.0000				
62	Function 5 PFK	442.97280	1.000	37.52	37.58	2072.8...		3094.57	1.4929		149.3	2.9301				
63	TCDF PCDPE	375.8364	1.000		21.12	45.934						0.0000				
64	F1 PeCDF PCDPE	409.79740	1.000	18.89	18.83	76.179		24.52	0.3219		32.2	0.4403				
65	F2 PeCDF PCDPE	409.7974	1.000	23.22	23.23	92.309		7.24	0.0785		7.8	0.2873				
66	HXCDF PCDPE	445.7555	1.000	33.79	33.73	77.611		108.69	1.4005		140.0	0.0779				

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

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Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449, Task:

# Name	Trace	Sample Size	RT	Prd.RT	RRF	M...	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Prd.Ratio	Ratio	Mod Date
67 HPCDF PCDPE	479.7165	1.000		34.51	88.954						0.0000				
68 OCDF PCDPE	513.67750	1.000	39.63	39.62	102.269		35.02	0.3425		34.2	0.0550				

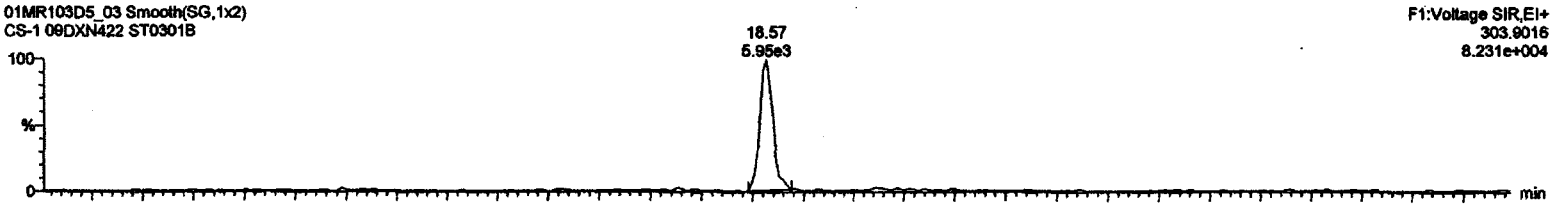
Quantify Sample Report **MassLynx 4.1**

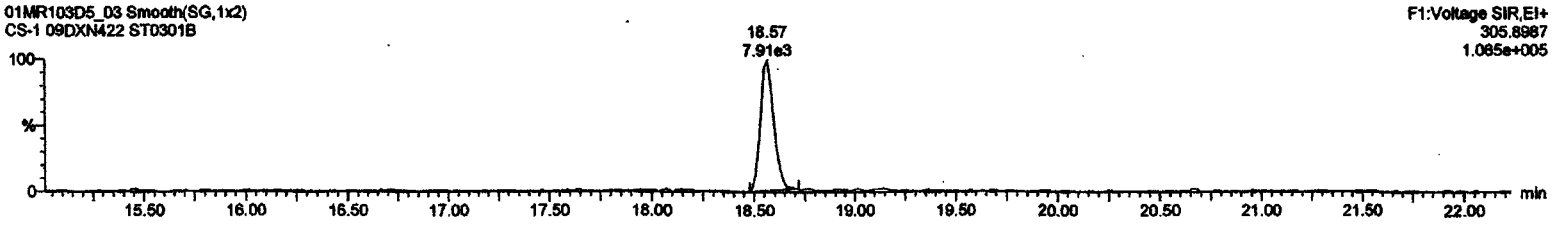
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

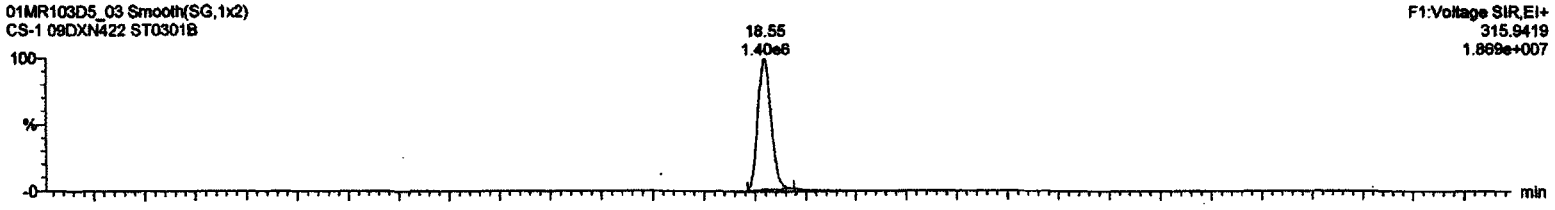
Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

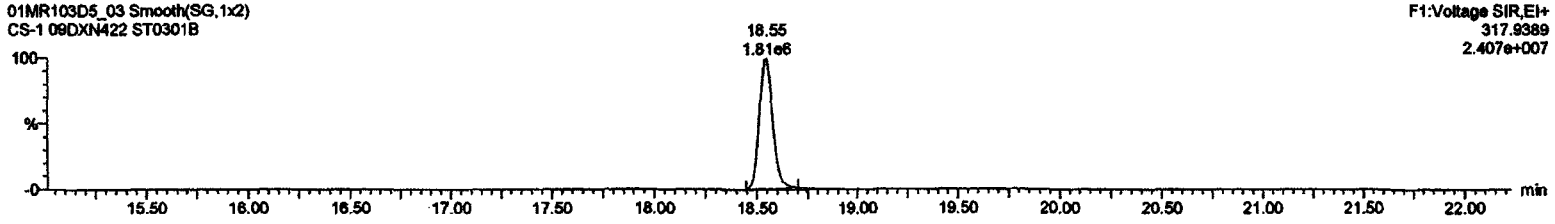
TCDFs





13C-TCDF





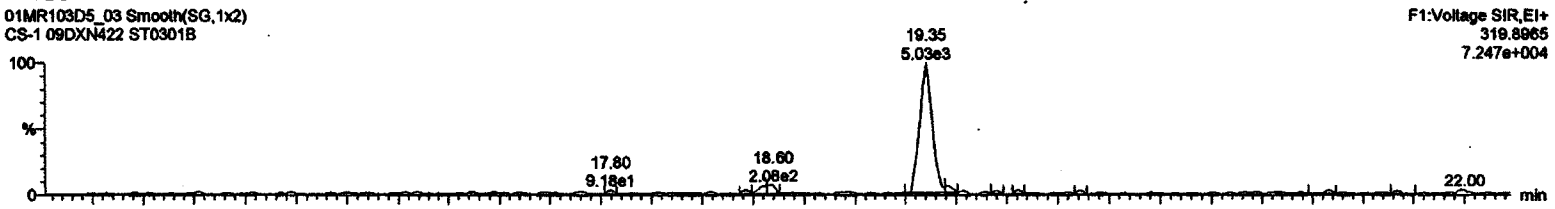
Quantify Sample Report **MassLynx 4.1**

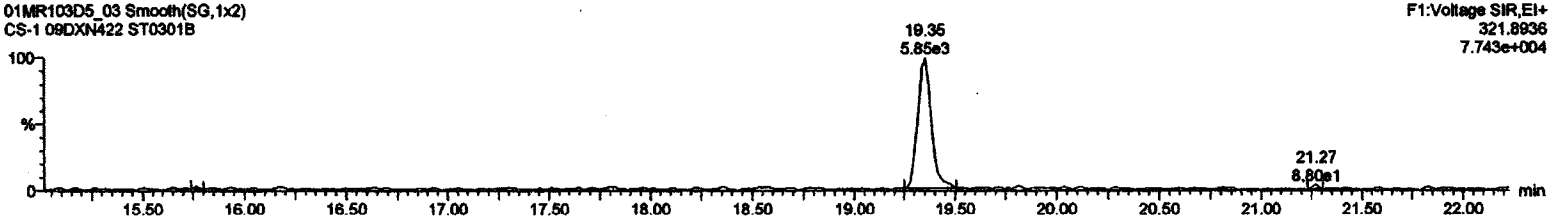
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

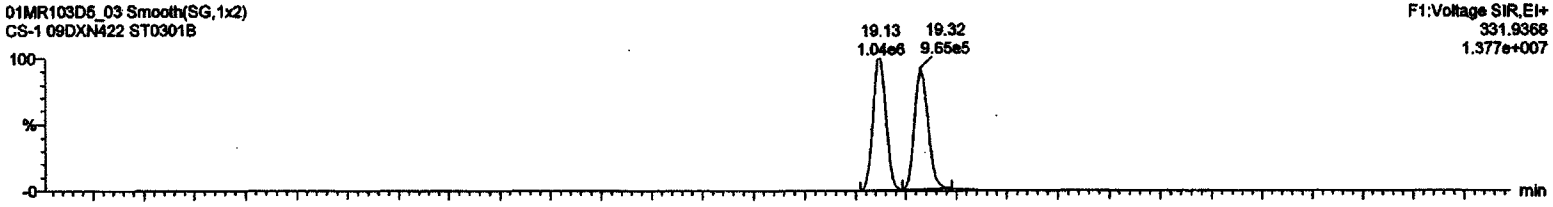
Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

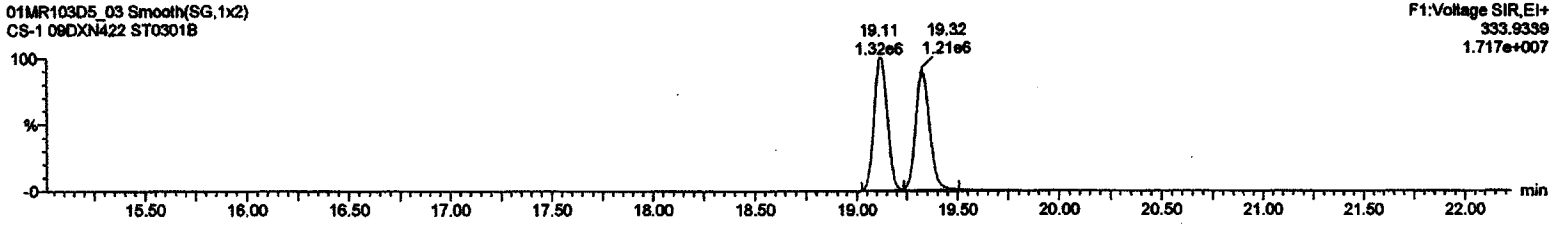
TCDDs





13C-TCDDs





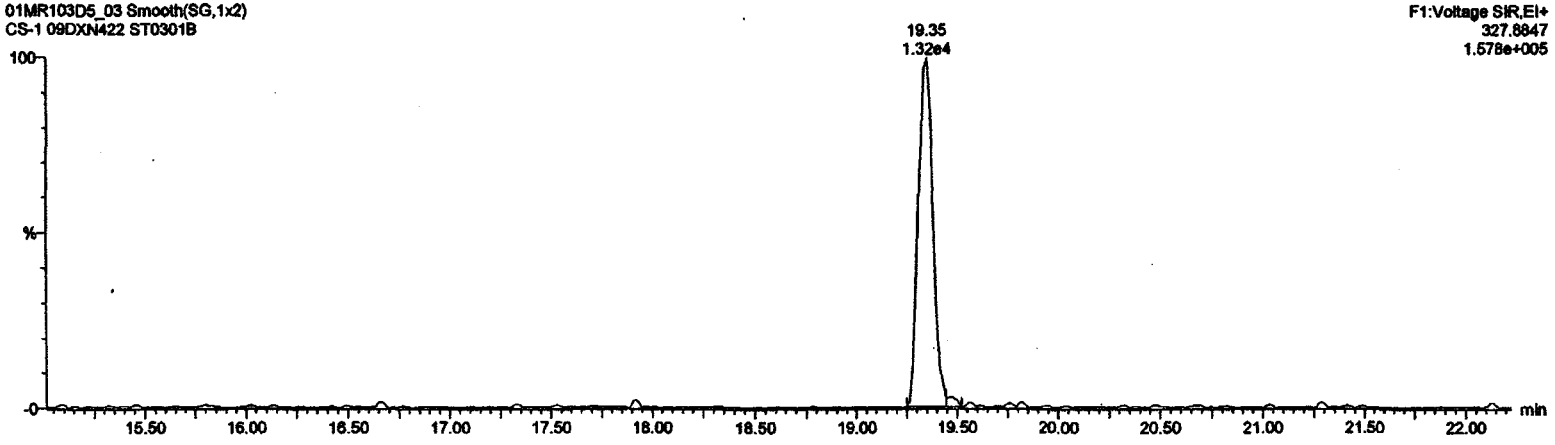
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

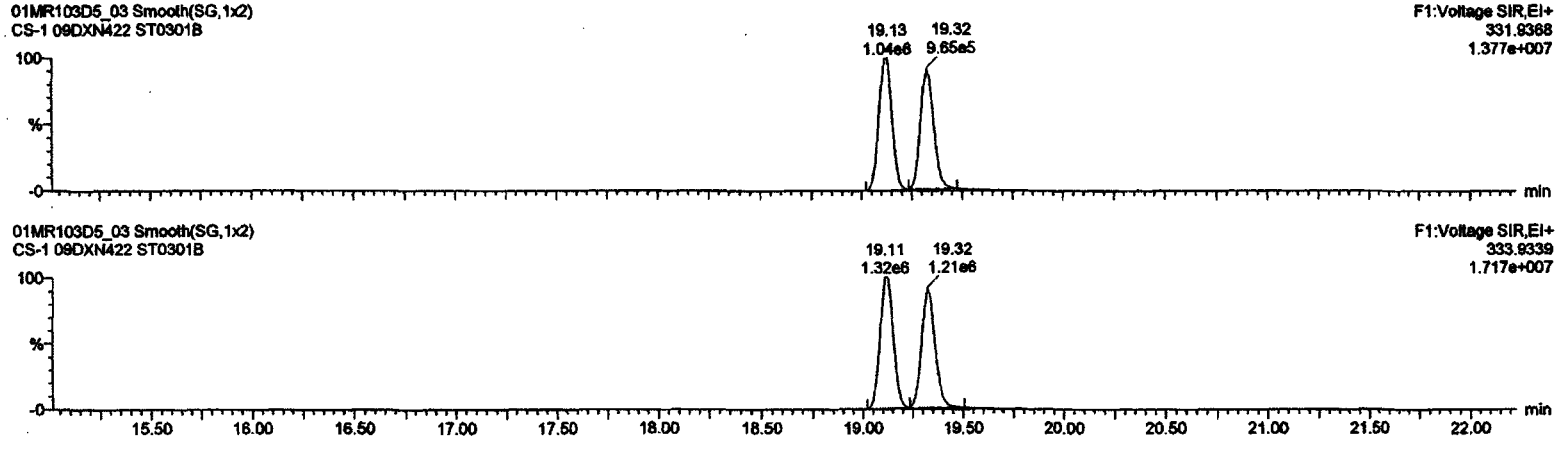
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

37CL-2,3,7,8-TCDD



13C-TCDDs



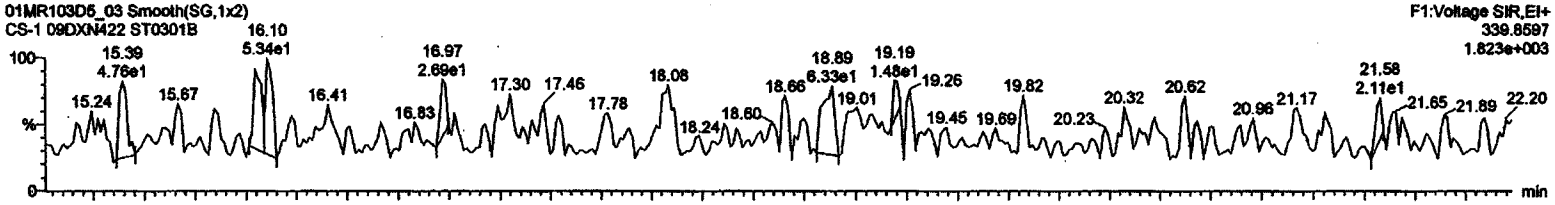
Quantify Sample Report **MassLynx 4.1**

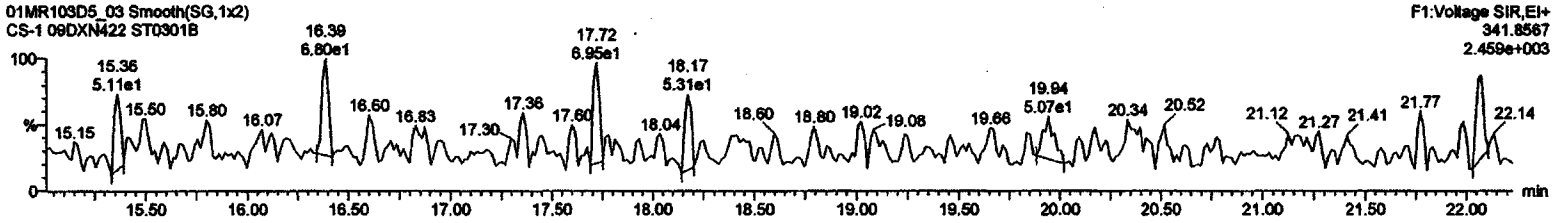
Dataset: C:\MassLynx\JAN2010.PRO\CA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

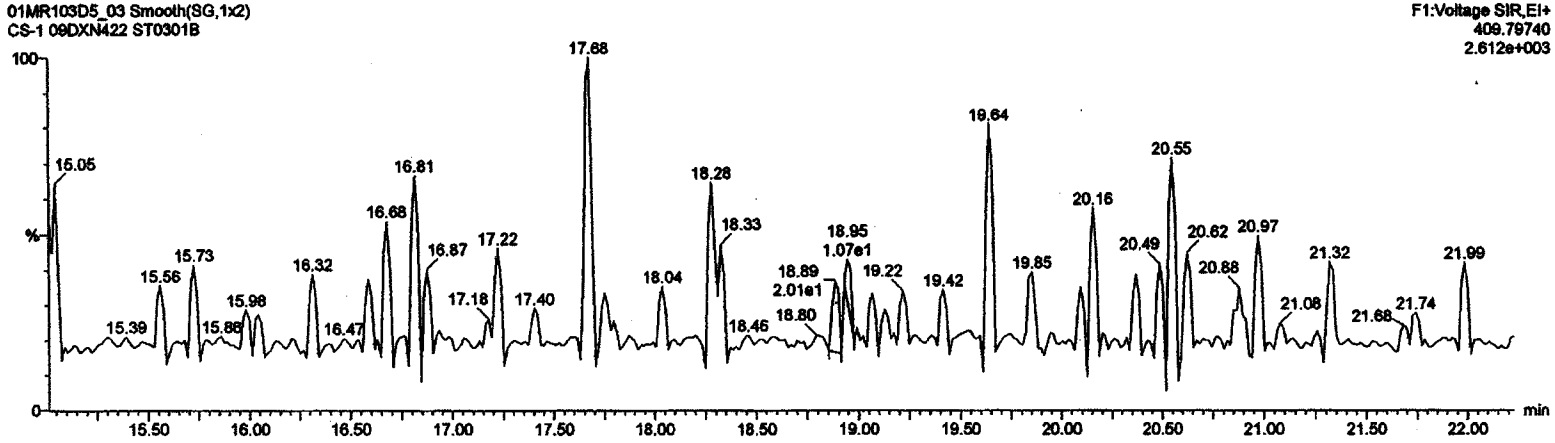
Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

F1 PeCDFs





F1 PeCDF PCDPE



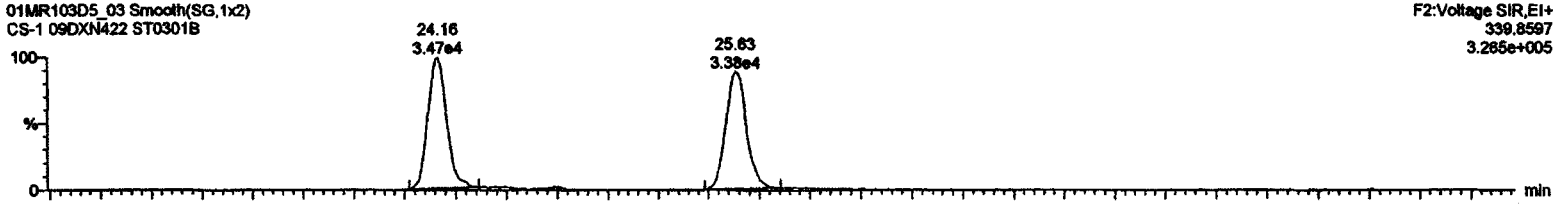
Quantify Sample Report **MassLynx 4.1**

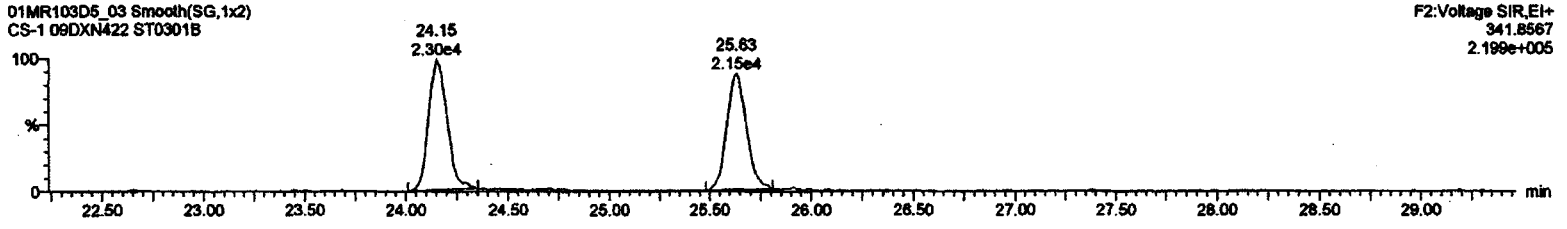
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

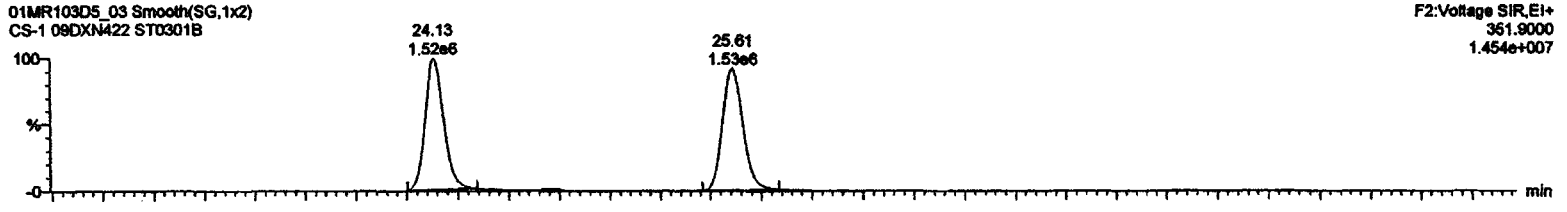
Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

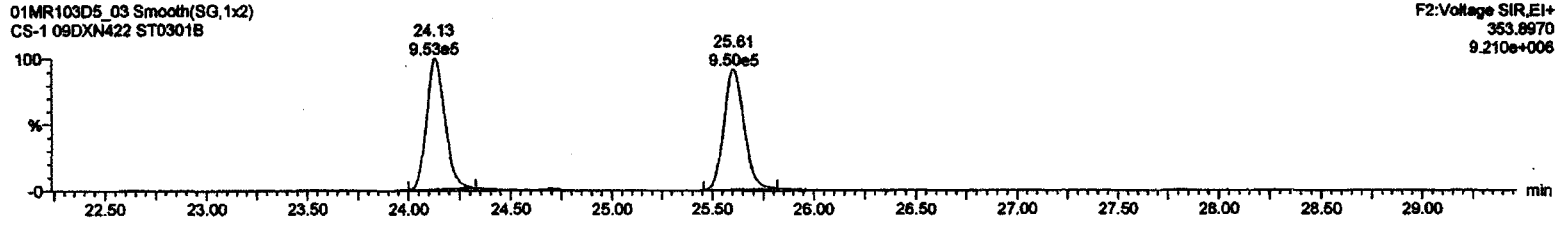
PeCDFs





13C-PeCDFs





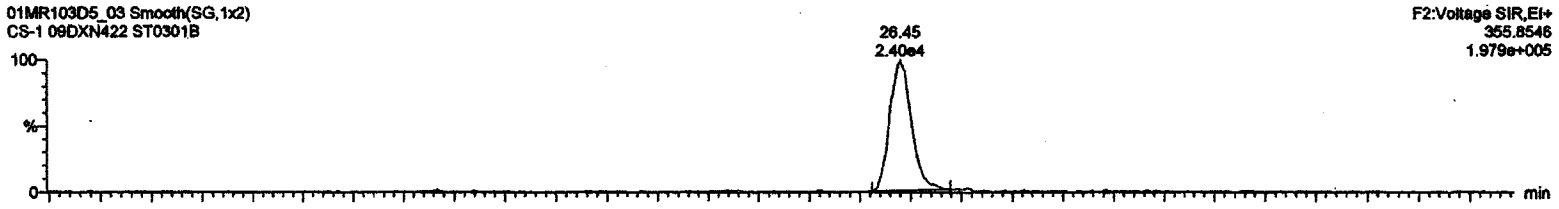
Quantify Sample Report **MassLynx 4.1**

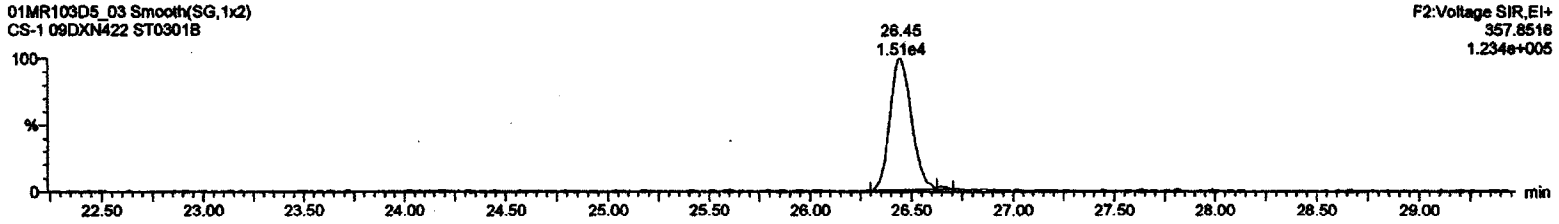
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

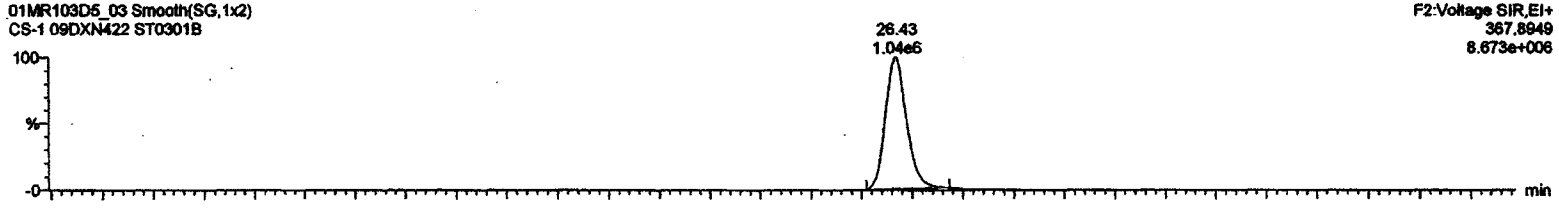
Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

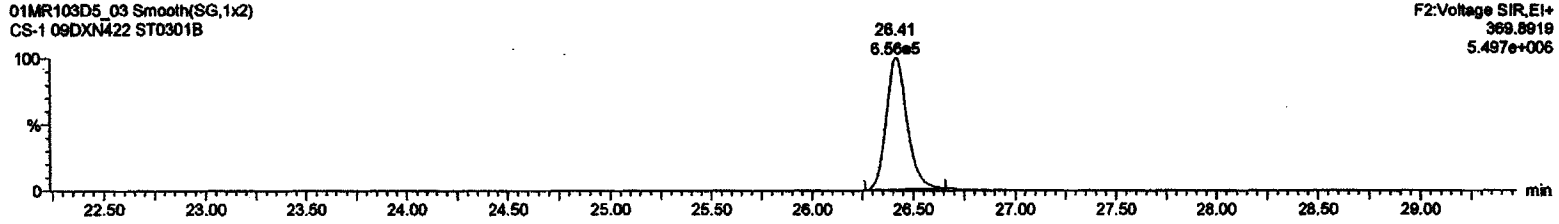
PeCDDs





13C-PeCDD





Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D5TETRAS.qld

Last Altered: Monday, March 01, 2010 14:44:06 Pacific Standard Time
Printed: Monday, March 01, 2010 14:44:53 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\TETRAS3D5.mdb 01 Mar 2010 14:43:30
Calibration: 01 Mar 2010 14:44:05

#	Name	RRF Mean	RRF SD	RRF %Rel SD
1	13C-1,2,3,4-TCDD	1.00000	0.00000	0.00000
2				
3	13C-2,3,7,8-TCDF	1.40173	0.06488	4.62848
4	2,3,7,8-TCDF	0.92135	0.05628	6.10850
5	Total TCDFs	0.92135	0.05628	6.10849
6				
7	13C-2,3,7,8-TCDD	0.94961	0.05927	6.24113
8	2,3,7,8-TCDD	1.03870	0.05087	4.89709
9	Total TCDDs	1.03870	0.05087	4.89709
10				
11	37CL-2,3,7,8-TCDD	1.14465	0.06138	5.36206
12				
13	Function 1 PFK	3136.00733	2690.35540	85.78919
14	TCDF PCDPE	56.90650	87.40735	153.59819

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D5TETRAS.qld

Last Altered: Monday, March 01, 2010 14:44:06 Pacific Standard Time
Printed: Monday, March 01, 2010 14:44:37 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\TETRAS3D5.mdb 01 Mar 2010 14:43:30
Calibration: 01 Mar 2010 14:44:05

Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

#	Name	Trace	RT	Response	RRF	Mod Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.13	2364985	1.00000		0.778	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.55	3351317	1.41706		0.781	NO
4	2,3,7,8-TCDF	303.9016	18.57	318250	0.94963		0.754	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.34	2356086	0.99624		0.760	NO
8	2,3,7,8-TCDD	319.8965	19.35	246730	1.04720		0.784	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.35	273383	1.15596			
12								
13	Function 1 PFK	330.97...	19.26	1517	1516.9...			
14	TCDF PCDPE	375.8364	15.14	186	185.69...			

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D5TETRAS.qld

Last Altered: Monday, March 01, 2010 14:44:06 Pacific Standard Time
Printed: Monday, March 01, 2010 14:44:37 Pacific Standard Time

Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

#	Name	Trace	RT	Response	RRF	Mod Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.11	2292797	1.00000		0.772	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.54	3063515	1.33615		0.782	NO
4	2,3,7,8-TCDF	303.9016	18.57	52610	0.85865		0.764	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.32	2040709	0.89005		0.773	NO
8	2,3,7,8-TCDD	319.8965	19.34	39759	0.97414		0.778	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.34	49607	1.08181			
12								
13	Function 1 PFK	330.97...	19.29	1649	1649.4...			
14	TCDF PCDPE	375.8364	15.15	1	1.25600			

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D5TETRAS.qld

Last Altered: Monday, March 01, 2010 14:44:06 Pacific Standard Time
Printed: Monday, March 01, 2010 14:44:37 Pacific Standard Time

Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.13	2361798	1.00000		0.791	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.55	3214735	1.36114		0.774	NO
4	2,3,7,8-TCDF	303.9016	18.57	13854	0.86192		0.753	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.32	2176691	0.92162		0.797	NO
8	2,3,7,8-TCDD	319.8965	19.35	10877	0.99942		0.861	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.35	13161	1.11448			
12								
13	Function 1 PFK	330.97...						
14	TCDF PCDPE	375.8364						

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D5TETRAS.qld

Last Altered: Monday, March 01, 2010 14:44:06 Pacific Standard Time
Printed: Monday, March 01, 2010 14:44:37 Pacific Standard Time

Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.11	2187117	1.00000		0.779	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.54	3290031	1.50428		0.801	NO
4	2,3,7,8-TCDF	303.9016	18.55	6377773	0.96926		0.765	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.32	2248331	1.02799		0.784	NO
8	2,3,7,8-TCDD	319.8965	19.34	4899839	1.08966		0.797	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.34	5439660	1.24357			
12								
13	Function 1 PFK	330.97...	19.25	6242	6241.6...			
14	TCDF PCDPE	375.8364	15.15	4	3.57300			

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D5TETRAS.qld

Last Altered: Monday, March 01, 2010 14:44:06 Pacific Standard Time
Printed: Monday, March 01, 2010 14:44:37 Pacific Standard Time

Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

#	Name	Trace	RT	Response	RRF	Mod Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.13	2432299	1.00000		0.795	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.55	3380927	1.39001		0.803	NO
4	2,3,7,8-TCDF	303.9016	18.57	1308159	0.96731		0.765	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.34	2218645	0.91216		0.762	NO
8	2,3,7,8-TCDD	319.8965	19.35	961187	1.08308		0.779	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.35	1096896	1.12743			
12								
13	Function 1 PFK	330.97...						
14	TCDF PCDPE	375.8364	15.12	37	37.102...			

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:19:54 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\16133D5.mdb 01 Mar 2010 14:17:18
Calibration: 01 Mar 2010 14:19:06

#	Name	RRF Mean	RRF SD	RRF %Rel SD
1	13C-1,2,3,4-TCDD	1.00000	0.00000	0.00000
2				
3	13C-2,3,7,8-TCDF	1.40173	0.06488	4.62848
4	2,3,7,8-TCDF	0.92135	0.05628	6.10850
5	Total TCDFs	0.92135	0.05628	6.10849
6				
7	13C-2,3,7,8-TCDD	0.94961	0.05927	6.24113
8	2,3,7,8-TCDD	1.03870	0.05087	4.89709
9	Total TCDDs	1.03870	0.05087	4.89709
10				
11	37CL-2,3,7,8-TCDD	1.14465	0.06138	5.36206
12				
13	13C-1,2,3,7,8-PeCDF	1.11677	0.10746	9.62233
14	1,2,3,7,8-PeCDF	0.98929	0.04661	4.71185
15	13C-2,3,4,7,8-PeCDF	1.09605	0.08762	7.99436
16	2,3,4,7,8-PeCDF	0.96669	0.05945	6.14977
17	Total F2 PeCDFs	0.97799	0.05273	5.39198
18	Total F1 PeCDFs	0.97799	0.05273	5.39198
19				
20	13C-1,2,3,7,8-PeCDD	0.77603	0.07472	9.62895
21	1,2,3,7,8-PeCDD	0.96958	0.03870	3.99107
22	Total PeCDDs	0.96958	0.03870	3.99107
23				
24	13C-1,2,3,7,8,9-HxCDD	1.00000	0.00000	0.00000
25				
26	13C-1,2,3,4,7,8-HxCDF	0.97183	0.07570	7.78896
27	1,2,3,4,7,8-HxCDF	1.20038	0.06355	5.29397
28	13C-1,2,3,6,7,8-HxCDF	1.21274	0.11185	9.22330
29	1,2,3,6,7,8-HxCDF	1.07443	0.03615	3.36478
30	13C-2,3,4,6,7,8-HxCDF	1.07919	0.08350	7.73747
31	2,3,4,6,7,8-HxCDF	1.13185	0.04623	4.08414
32	13C-1,2,3,7,8,9-HxCDF	0.95146	0.04041	4.24744
33	1,2,3,7,8,9-HxCDF	1.09379	0.06606	6.03988
34	Total HxCDFs	1.12511	0.04980	4.42626
35				
36	13C-1,2,3,4,7,8-HxCDD	0.81696	0.06224	7.61811
37	1,2,3,4,7,8-HxCDD	0.99269	0.07172	7.22496
38	13C-1,2,3,6,7,8-HxCDD	0.89936	0.06718	7.47010
39	1,2,3,6,7,8-HxCDD	1.09904	0.05428	4.93847
40	1,2,3,7,8,9-HxCDD	1.11503	0.13952	12.51248
41	Total HxCDDs	1.06892	0.08554	8.00249
42				
43	13C-1,2,3,4,6,7,8-HpCDF	0.84273	0.04470	5.30365
44	1,2,3,4,6,7,8-HpCDF	1.30670	0.07887	6.03564
45	13C-1,2,3,4,7,8,9-HpCDF	0.69273	0.02994	4.32158
46	1,2,3,4,7,8,9-HpCDF	1.29279	0.10448	8.08143
47	Total HpCDFs	1.29974	0.08941	6.87881

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:19:54 Pacific Standard Time

#	Name	RRF Mean	RRF SD	RRF %Rel SD
48				
49	13C-1,2,3,4,6,7,8-HpCDD	0.79749	0.03990	5.00319
50	1,2,3,4,6,7,8-HpCDD	0.99684	0.05299	5.31535
51	Total HpCDDs	0.99684	0.05299	5.31535
52				
53	13C-OCDD	0.59869	0.03502	5.84934
54	OCDF	1.26224	0.11865	9.39998
55	OCDD	1.11522	0.06009	5.38825
56				
57				
58	Function 1 PFK	3769.57700	0.00000	0.00000
59	Function 3 PFK	5225.13050	1100.08208	21.05368
60	Function 2 PFK	9733.63550	5820.31117	59.79586
61	Function 4 PFK	4454.80333	6288.24877	141.15660
62	Function 5 PFK	2072.82200	1235.98447	59.62810
63	TCDF PCDPE	45.93425	43.03779	93.69433
64	F1 PeCDF PCDPE	76.17900	79.72604	104.65619
65	F2 PeCDF PCDPE	92.30900	72.65489	78.70835
66	HXCDF PCDPE	77.61100	82.57176	106.39182
67	HPCDF PCDPE	88.95350	82.45643	92.69610
68	OCDF PCDPE	102.26850	73.15913	71.53632

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Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.13	2361798	1.00000		0.791	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.55	3214735	1.36114		0.774	NO
4	2,3,7,8-TCDF	303.9016	18.57	13854	0.86192		0.753	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.32	2176691	0.92162		0.797	NO
8	2,3,7,8-TCDD	319.8965	19.35	10877	0.99942		0.861	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.35	13161	1.11448			
12								
13	13C-1,2,3,7,8-PeCDF	351.9000	24.13	2469946	1.04579		1.592	NO
14	1,2,3,7,8-PeCDF	339.8597	24.16	57704	0.93449		1.504	NO
15	13C-2,3,4,7,8-PeCDF	351.9000	25.61	2484041	1.05176		1.615	NO
16	2,3,4,7,8-PeCDF	339.8597	25.63	55273	0.89005		1.573	NO
17	Total F2 PeCDFs	339.8597						
18	Total F1 PeCDFs	339.8597						
19								
20	13C-1,2,3,7,8-PeCDD	367.8949	26.43	1698414	0.71912		1.590	NO
21	1,2,3,7,8-PeCDD	355.8546	26.45	39093	0.92069		1.588	NO
22	Total PeCDDs	355.8546						
23								
24	13C-1,2,3,7,8,9-HxCDD	401.8559	32.96	1935821	1.00000		1.398	NO
25								
26	13C-1,2,3,4,7,8-HxCDF	383.8639	31.74	1843697	0.95241		0.516	NO
27	1,2,3,4,7,8-HxCDF	373.8208	31.75	51877	1.12549		1.262	NO
28	13C-1,2,3,6,7,8-HxCDF	383.8639	31.86	2253677	1.16420		0.522	NO
29	1,2,3,6,7,8-HxCDF	373.8208	31.87	57372	1.01828		1.222	NO
30	13C-2,3,4,6,7,8-HxCDF	383.8639	32.45	2087138	1.07817		0.517	NO
31	2,3,4,6,7,8-HxCDF	373.8208	32.46	54891	1.05198		1.261	NO
32	13C-1,2,3,7,8,9-HxCDF	383.8639	33.13	1859660	0.96066		0.502	NO
33	1,2,3,7,8,9-HxCDF	373.8208	33.14	46482	0.99979		1.303	NO
34	Total HxCDFs	373.8208						
35								
36	13C-1,2,3,4,7,8-HxCDD	401.8559	32.60	1650979	0.85286		1.259	NO
37	1,2,3,4,7,8-HxCDD	389.8157	32.61	36804	0.89170		1.388	NO
38	13C-1,2,3,6,7,8-HxCDD	401.8559	32.69	1678133	0.86688		1.326	NO
39	1,2,3,6,7,8-HxCDD	389.8157	32.70	43895	1.04629		1.191	NO
40	1,2,3,7,8,9-HxCDD	389.8157	32.97	40797	0.98037		1.271	NO
41	Total HxCDDs	389.8157						
42								
43	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.50	1666531	0.86089		0.451	NO
44	1,2,3,4,6,7,8-HpCDF	407.7818	34.51	51065	1.22566		1.021	NO
45	13C-1,2,3,4,7,8,9-HpCDF	417.8253	35.64	1375923	0.71077		0.442	NO
46	1,2,3,4,7,8,9-HpCDF	407.7818	35.65	39159	1.13840		1.064	NO
47	Total HpCDFs	407.7818						
48								
49	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.32	1551532	0.80149		1.092	NO

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Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

#	Name	Trace	RT	Response	RRF	Mod Date	Ratio	Ratio Flag
50	1,2,3,4,6,7,8-HpCDD	423.7766	35.34	36178	0.93269		1.045	NO
51	Total HpCDDs	423.7766						
52								
53	13C-OCDD	469.7779	37.85	2284858	0.59015		0.911	NO
54	OCDF	441.7428	37.97	65228	1.14191		0.957	NO
55	OCDD	457.7377	37.86	60757	1.06365		0.864	NO
56								
57								
58	Function 1 PFK	330.97...						
59	Function 3 PFK	380.97...						
60	Function 2 PFK	342.97...	25.57	13849	13849....			
61	Function 4 PFK	430.97...	34.62	462	462.31...			
62	Function 5 PFK	442.97...						
63	TCDF PCDPE	375.8364						
64	F1 PeCDF PCDPE	409.79...	18.89	20	20.053...			
65	F2 PeCDF PCDPE	409.7974	23.22	66	66.022...			
66	HXCDF PCDPE	445.7555	33.66	49	48.588...			
67	HPCDF PCDPE	479.7165						
68	OCDF PCDPE	513.67...	39.58	16	15.649...			

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Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.11	2292797	1.00000		0.772	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.54	3063515	1.33615		0.782	NO
4	2,3,7,8-TCDF	303.9016	18.57	52610	0.85865		0.764	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.32	2040709	0.89005		0.773	NO
8	2,3,7,8-TCDD	319.8965	19.34	39759	0.97414		0.778	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.34	49607	1.08181			
12								
13	13C-1,2,3,7,8-PeCDF	351.9000	24.13	2352868	1.02620		1.553	NO
14	1,2,3,7,8-PeCDF	339.8597	24.15	222551	0.94587		1.612	NO
15	13C-2,3,4,7,8-PeCDF	351.9000	25.61	2320816	1.01222		1.555	NO
16	2,3,4,7,8-PeCDF	339.8597	25.63	212716	0.91656		1.541	NO
17	Total F2 PeCDFs	339.8597						
18	Total F1 PeCDFs	339.8597						
19								
20	13C-1,2,3,7,8-PeCDD	367.8949	26.41	1617570	0.70550		1.572	NO
21	1,2,3,7,8-PeCDD	355.8546	26.45	151414	0.93606		1.581	NO
22	Total PeCDDs	355.8546						
23								
24	13C-1,2,3,7,8,9-HxCDD	401.8559	32.96	1758480	1.00000		1.336	NO
25								
26	13C-1,2,3,4,7,8-HxCDF	383.8639	31.74	1731496	0.98465		0.526	NO
27	1,2,3,4,7,8-HxCDF	373.8208	31.75	198399	1.14582		1.261	NO
28	13C-1,2,3,6,7,8-HxCDF	383.8639	31.86	2114416	1.20241		0.524	NO
29	1,2,3,6,7,8-HxCDF	373.8208	31.87	225242	1.06527		1.285	NO
30	13C-2,3,4,6,7,8-HxCDF	383.8639	32.45	1884143	1.07146		0.530	NO
31	2,3,4,6,7,8-HxCDF	373.8208	32.46	214018	1.13589		1.218	NO
32	13C-1,2,3,7,8,9-HxCDF	383.8639	33.13	1588434	0.90330		0.522	NO
33	1,2,3,7,8,9-HxCDF	373.8208	33.14	169419	1.06658		1.191	NO
34	Total HxCDFs	373.8208						
35								
36	13C-1,2,3,4,7,8-HxCDD	401.8559	32.60	1412855	0.80345		1.270	NO
37	1,2,3,4,7,8-HxCDD	389.8157	32.61	134250	0.95020		1.227	NO
38	13C-1,2,3,6,7,8-HxCDD	401.8559	32.69	1651226	0.93901		1.259	NO
39	1,2,3,6,7,8-HxCDD	389.8157	32.70	172807	1.04654		1.238	NO
40	1,2,3,7,8,9-HxCDD	389.8157	32.97	154900	1.01107		1.310	NO
41	Total HxCDDs	389.8157						
42								
43	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.50	1461269	0.83098		0.431	NO
44	1,2,3,4,6,7,8-HpCDF	407.7818	34.51	179587	1.22898		1.031	NO
45	13C-1,2,3,4,7,8,9-HpCDF	417.8253	35.64	1152289	0.65528		0.458	NO
46	1,2,3,4,7,8,9-HpCDF	407.7818	35.65	141801	1.23060		1.084	NO
47	Total HpCDFs	407.7818						
48								
49	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.32	1361669	0.77434		1.063	NO

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Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
50	1,2,3,4,6,7,8-HpCDD	423.7766	35.34	129875	0.95380		1.048	NO
51	Total HpCDDs	423.7766						
52								
53	13C-OCDD	469.7779	37.84	1954952	0.55586		0.929	NO
54	OCDF	441.7428	37.96	219835	1.12450		0.918	NO
55	OCDD	457.7377	37.85	204075	1.04389		0.934	NO
56								
57								
58	Function 1 PFK	330.97...						
59	Function 3 PFK	380.97...						
60	Function 2 PFK	342.97...						
61	Function 4 PFK	430.97...						
62	Function 5 PFK	442.97...	37.52	1199	1198.8...			
63	TCDF PCDPE	375.8364	21.08	19	19.410...			
64	F1 PeCDF PCDPE	409.79...	18.73	106	105.74...			
65	F2 PeCDF PCDPE	409.7974	23.21	10	9.77000			
66	HXCDF PCDPE	445.7555	33.71	14	13.724...			
67	HPCDF PCDPE	479.7165	34.52	31	30.648...			
68	OCDF PCDPE	513.67...	39.60	120	119.62...			

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Method: C:\MassLynx\JAN2010.PRO\MethDB\16133D5.mdb 01 Mar 2010 14:17:18
Calibration: 01 Mar 2010 14:19:06

Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

#	Name	Trace	RT	Response	RRF	Mod Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.13	2364985	1.00000		0.778	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.55	3351317	1.41706		0.781	NO
4	2,3,7,8-TCDF	303.9016	18.57	318250	0.94963		0.754	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.34	2356086	0.99624		0.760	NO
8	2,3,7,8-TCDD	319.8965	19.35	246730	1.04720		0.784	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.35	273383	1.15596			
12								
13	13C-1,2,3,7,8-PeCDF	351.9000	24.15	2756814	1.16568		1.600	NO
14	1,2,3,7,8-PeCDF	339.8597	24.18	1416444	1.02759		1.571	NO
15	13C-2,3,4,7,8-PeCDF	351.9000	25.62	2746679	1.16139		1.579	NO
16	2,3,4,7,8-PeCDF	339.8597	25.66	1373135	0.99985		1.560	NO
17	Total F2 PeCDFs	339.8597						
18	Total F1 PeCDFs	339.8597						
19								
20	13C-1,2,3,7,8-PeCDD	367.8949	26.44	1985364	0.83948		1.628	NO
21	1,2,3,7,8-PeCDD	355.8546	26.47	980879	0.98811		1.565	NO
22	Total PeCDDs	355.8546						
23								
24	13C-1,2,3,7,8,9-HxCDD	401.8559	32.97	1789550	1.00000		1.291	NO
25								
26	13C-1,2,3,4,7,8-HxCDF	383.8639	31.74	1915628	1.07045		0.511	NO
27	1,2,3,4,7,8-HxCDF	373.8208	31.76	1201649	1.25457		1.235	NO
28	13C-1,2,3,6,7,8-HxCDF	383.8639	31.86	2507847	1.40138		0.495	NO
29	1,2,3,6,7,8-HxCDF	373.8208	31.87	1350244	1.07682		1.254	NO
30	13C-2,3,4,6,7,8-HxCDF	383.8639	32.45	2133837	1.19239		0.517	NO
31	2,3,4,6,7,8-HxCDF	373.8208	32.48	1221201	1.14461		1.213	NO
32	13C-1,2,3,7,8,9-HxCDF	383.8639	33.13	1689168	0.94391		0.520	NO
33	1,2,3,7,8,9-HxCDF	373.8208	33.14	985535	1.16689		1.214	NO
34	Total HxCDFs	373.8208						
35								
36	13C-1,2,3,4,7,8-HxCDD	401.8559	32.60	1596233	0.89197		1.271	NO
37	1,2,3,4,7,8-HxCDD	389.8157	32.62	835884	1.04732		1.244	NO
38	13C-1,2,3,6,7,8-HxCDD	401.8559	32.69	1723496	0.96309		1.287	NO
39	1,2,3,6,7,8-HxCDD	389.8157	32.70	962832	1.11730		1.295	NO
40	1,2,3,7,8,9-HxCDD	389.8157	32.98	907155	1.09305		1.233	NO
41	Total HxCDDs	389.8157						
42								
43	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.50	1563993	0.87396		0.458	NO
44	1,2,3,4,6,7,8-HpCDF	407.7818	34.51	1080224	1.38137		1.000	NO
45	13C-1,2,3,4,7,8,9-HpCDF	417.8253	35.64	1266356	0.70764		0.475	NO
46	1,2,3,4,7,8,9-HpCDF	407.7818	35.65	872663	1.37823		1.083	NO

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Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
47	Total HpCDFs	407.7818						
48								
49	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.32	1495048	0.83543		1.022	NO
50	1,2,3,4,6,7,8-HpCDD	423.7766	35.34	788946	1.05541		1.094	NO
51	Total HpCDDs	423.7766						
52								
53	13C-OCDD	469.7779	37.85	2244512	0.62712		0.906	NO
54	OCDF	441.7428	37.97	1492462	1.32988		0.935	NO
55	OCDD	457.7377	37.86	1332444	1.18729		0.868	NO
56								
57								
58	Function 1 PFK	330.97...						
59	Function 3 PFK	380.97...	32.33	4447	4447.2...			
60	Function 2 PFK	342.97...						
61	Function 4 PFK	430.97...	34.61	11703	11703....			
62	Function 5 PFK	442.97...						
63	TCDF PCDPE	375.8364	21.06	68	67.932...			
64	F1 PeCDF PCDPE	409.79...						
65	F2 PeCDF PCDPE	409.7974						
66	HXCDF PCDPE	445.7555	33.68	213	212.84...			
67	HPCDF PCDPE	479.7165						
68	OCDF PCDPE	513.67...	39.70	191	191.00...			

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Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

#	Name	Trace	RT	Response	RRF	Mod Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.13	2432299	1.00000		0.795	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.55	3380927	1.39001		0.803	NO
4	2,3,7,8-TCDF	303.9016	18.57	1308159	0.96731		0.765	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.34	2218645	0.91216		0.762	NO
8	2,3,7,8-TCDD	319.8965	19.35	961187	1.08308		0.779	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.35	1096896	1.12743			
12								
13	13C-1,2,3,7,8-PeCDF	351.9000	24.13	2585644	1.06305		1.594	NO
14	1,2,3,7,8-PeCDF	339.8597	24.16	5355896	1.03570		1.564	NO
15	13C-2,3,4,7,8-PeCDF	351.9000	25.61	2528284	1.03946		1.587	NO
16	2,3,4,7,8-PeCDF	339.8597	25.63	5183395	1.02508		1.543	NO
17	Total F2 PeCDFs	339.8597						
18	Total F1 PeCDFs	339.8597						
19								
20	13C-1,2,3,7,8-PeCDD	367.8949	26.43	1811035	0.74458		1.575	NO
21	1,2,3,7,8-PeCDD	355.8546	26.45	3652230	1.00833		1.586	NO
22	Total PeCDDs	355.8546						
23								
24	13C-1,2,3,7,8,9-HxCDD	401.8559	32.97	2158757	1.00000		1.276	NO
25								
26	13C-1,2,3,4,7,8-HxCDF	383.8639	31.74	1858567	0.86094		0.516	NO
27	1,2,3,4,7,8-HxCDF	373.8208	31.76	4713343	1.26800		1.290	NO
28	13C-1,2,3,6,7,8-HxCDF	383.8639	31.86	2386648	1.10557		0.500	NO
29	1,2,3,6,7,8-HxCDF	373.8208	31.87	5286599	1.10754		1.224	NO
30	13C-2,3,4,6,7,8-HxCDF	383.8639	32.46	2067710	0.95782		0.552	NO
31	2,3,4,6,7,8-HxCDF	373.8208	32.48	4813242	1.16391		1.255	NO
32	13C-1,2,3,7,8,9-HxCDF	383.8639	33.14	2020742	0.93607		0.521	NO
33	1,2,3,7,8,9-HxCDF	373.8208	33.15	4623959	1.14412		1.262	NO
34	Total HxCDFs	373.8208						
35								
36	13C-1,2,3,4,7,8-HxCDD	401.8559	32.61	1566239	0.72553		1.271	NO
37	1,2,3,4,7,8-HxCDD	389.8157	32.62	3338449	1.06575		1.267	NO
38	13C-1,2,3,6,7,8-HxCDD	401.8559	32.69	1721352	0.79738		1.272	NO
39	1,2,3,6,7,8-HxCDD	389.8157	32.70	4045688	1.17515		1.315	NO
40	1,2,3,7,8,9-HxCDD	389.8157	32.98	4373853	1.33041		1.395	NO
41	Total HxCDDs	389.8157						
42								
43	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.51	1661984	0.76988		0.441	NO
44	1,2,3,4,6,7,8-HpCDF	407.7818	34.52	4615340	1.38850		1.022	NO
45	13C-1,2,3,4,7,8,9-HpCDF	417.8253	35.65	1438759	0.66648		0.442	NO
46	1,2,3,4,7,8,9-HpCDF	407.7818	35.65	3924647	1.36390		1.049	NO
47	Total HpCDFs	407.7818						
48								
49	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.32	1602360	0.74226		1.078	NO

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
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Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
50	1,2,3,4,6,7,8-HpCDD	423.7766	35.34	3330255	1.03917		1.011	NO
51	Total HpCDDs	423.7766						
52								
53	13C-OCDD	469.7779	37.85	2500302	0.57911		0.889	NO
54	OCDF	441.7428	37.97	6832197	1.36627		0.901	NO
55	OCDD	457.7377	37.86	5755066	1.15087		0.896	NO
56								
57								
58	Function 1 PFK	330.97...						
59	Function 3 PFK	380.97...	32.30	6003	6003.0...			
60	Function 2 PFK	342.97...						
61	Function 4 PFK	430.97...	34.60	1199	1198.7...			
62	Function 5 PFK	442.97...	37.58	2947	2946.7...			
63	TCDF PCDPE	375.8364	21.12	95	94.883...			
64	F1 PeCDF PCDPE	409.79...	18.83	175	175.17...			
65	F2 PeCDF PCDPE	409.7974	23.23	181	181.44...			
66	HXCDF PCDPE	445.7555	33.73	96	96.237...			
67	HPCDF PCDPE	479.7165	34.51	147	147.25...			
68	OCDF PCDPE	513.67...	39.62	83	82.800...			

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:19:29 Pacific Standard Time

Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.11	2187117	1.00000		0.779	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.54	3290031	1.50428		0.801	NO
4	2,3,7,8-TCDF	303.9016	18.55	6377773	0.96926		0.765	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.32	2248331	1.02799		0.784	NO
8	2,3,7,8-TCDD	319.8965	19.34	4899839	1.08966		0.797	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.34	5439660	1.24357			
12								
13	13C-1,2,3,7,8-PeCDF	351.9000	24.13	2806319	1.28311		1.594	NO
14	1,2,3,7,8-PeCDF	339.8597	24.15	28141493	1.00279		1.551	NO
15	13C-2,3,4,7,8-PeCDF	351.9000	25.60	2658268	1.21542		1.577	NO
16	2,3,4,7,8-PeCDF	339.8597	25.62	26633745	1.00192		1.548	NO
17	Total F2 PeCDFs	339.8597						
18	Total F1 PeCDFs	339.8597						
19								
20	13C-1,2,3,7,8-PeCDD	367.8949	26.40	1905969	0.87145		1.639	NO
21	1,2,3,7,8-PeCDD	355.8546	26.44	18958636	0.99470		1.579	NO
22	Total PeCDDs	355.8546						
23								
24	13C-1,2,3,7,8,9-HxCDD	401.8559	32.96	2063670	1.00000		1.284	NO
25								
26	13C-1,2,3,4,7,8-HxCDF	383.8639	31.74	2044436	0.99068		0.519	NO
27	1,2,3,4,7,8-HxCDF	373.8208	31.75	24696987	1.20801		1.240	NO
28	13C-1,2,3,6,7,8-HxCDF	383.8639	31.86	2456088	1.19016		0.523	NO
29	1,2,3,6,7,8-HxCDF	373.8208	31.87	27121636	1.10426		1.260	NO
30	13C-2,3,4,6,7,8-HxCDF	383.8639	32.45	2262005	1.09611		0.522	NO
31	2,3,4,6,7,8-HxCDF	373.8208	32.46	26303985	1.16286		1.297	NO
32	13C-1,2,3,7,8,9-HxCDF	383.8639	33.13	2091294	1.01339		0.508	NO
33	1,2,3,7,8,9-HxCDF	373.8208	33.14	22828081	1.09158		1.278	NO
34	Total HxCDFs	373.8208						
35								
36	13C-1,2,3,4,7,8-HxCDD	401.8559	32.60	1673608	0.81099		1.273	NO
37	1,2,3,4,7,8-HxCDD	389.8157	32.61	16877625	1.00846		1.231	NO
38	13C-1,2,3,6,7,8-HxCDD	401.8559	32.69	1920145	0.93045		1.333	NO
39	1,2,3,6,7,8-HxCDD	389.8157	32.70	21311956	1.10991		1.257	NO
40	1,2,3,7,8,9-HxCDD	389.8157	32.97	20848679	1.16027		1.287	NO
41	Total HxCDDs	389.8157						
42								
43	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.50	1811806	0.87795		0.433	NO
44	1,2,3,4,6,7,8-HpCDF	407.7818	34.51	23716064	1.30897		1.047	NO
45	13C-1,2,3,4,7,8,9-HpCDF	417.8253	35.64	1493004	0.72347		0.444	NO
46	1,2,3,4,7,8,9-HpCDF	407.7818	35.65	20197358	1.35280		1.026	NO
47	Total HpCDFs	407.7818						
48								
49	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.32	1720913	0.83391		1.021	NO

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
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Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
50	1,2,3,4,6,7,8-HpCDD	423.7766	35.34	17263231	1.00314		1.051	NO
51	Total HpCDDs	423.7766						
52								
53	13C-OCDD	469.7779	37.85	2646442	0.64120		0.891	NO
54	OCDF	441.7428	37.97	35690858	1.34864		0.912	NO
55	OCDD	457.7377	37.86	29914861	1.13038		0.881	NO
56								
57								
58	Function 1 PFK	330.97...	15.67	3770	3769.5...			
59	Function 3 PFK	380.97...						
60	Function 2 PFK	342.97...	25.47	5618	5618.0...			
61	Function 4 PFK	430.97...						
62	Function 5 PFK	442.97...						
63	TCDF PCDPE	375.8364	21.14	2	1.51200			
64	F1 PeCDF PCDPE	409.79...	18.86	4	3.75300			
65	F2 PeCDF PCDPE	409.7974	23.28	112	112.00...			
66	HXCDF PCDPE	445.7555	33.79	17	16.665...			
67	HPCDF PCDPE	479.7165						
68	OCDF PCDPE	513.67...						

Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
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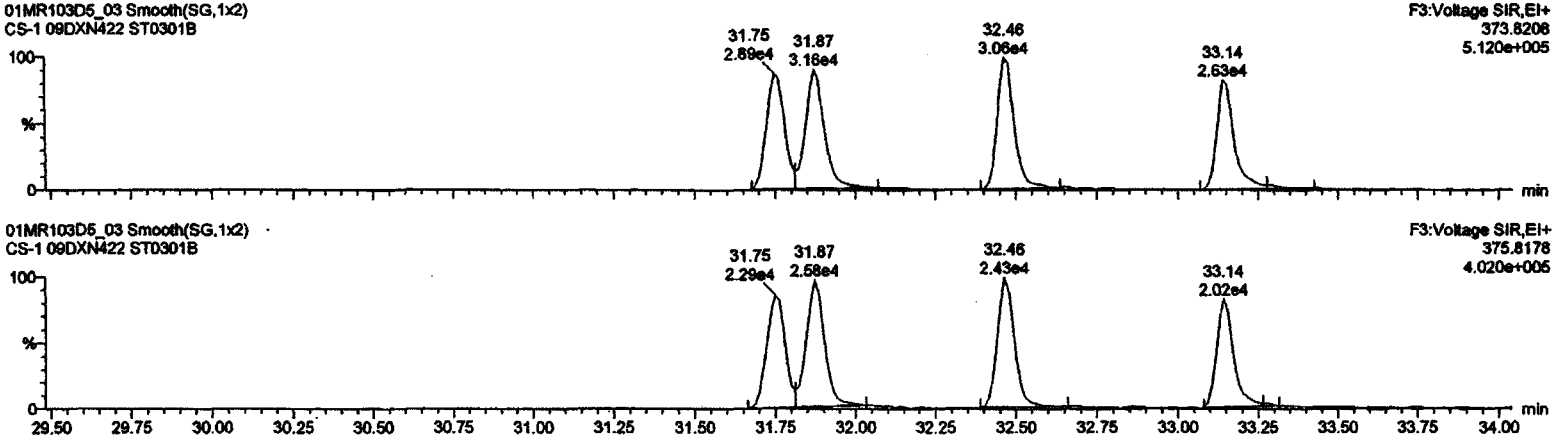
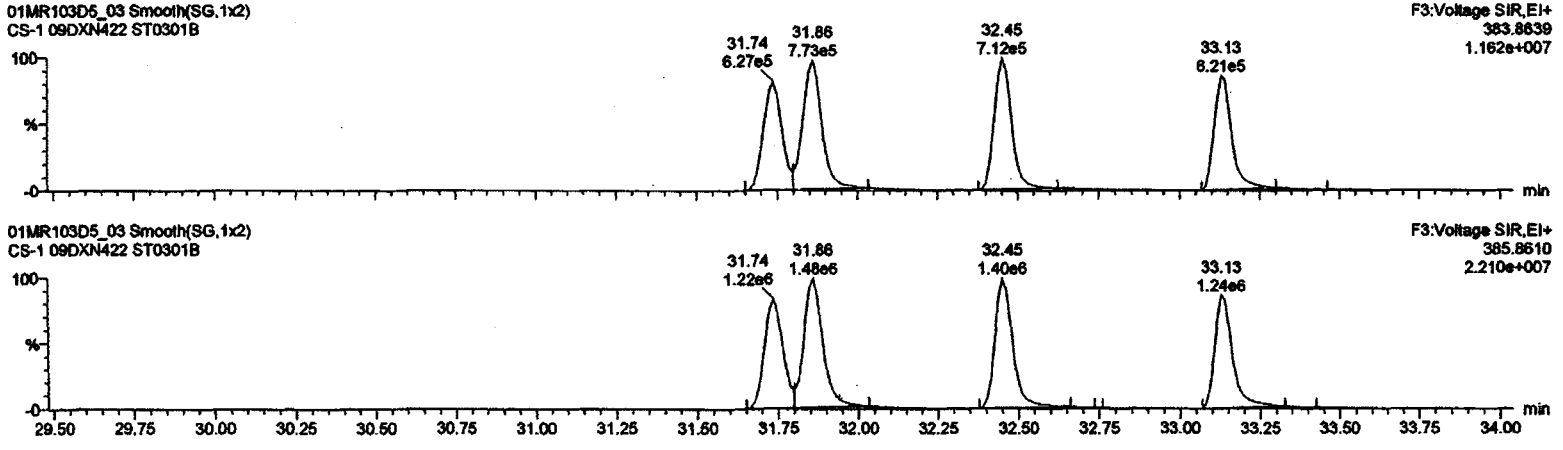
Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

HxCDFs



13C-HxCDFs



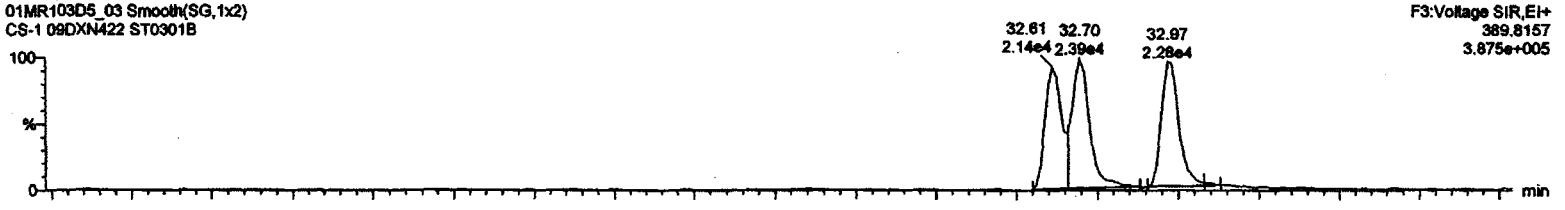
Quantify Sample Report **MassLynx 4.1**

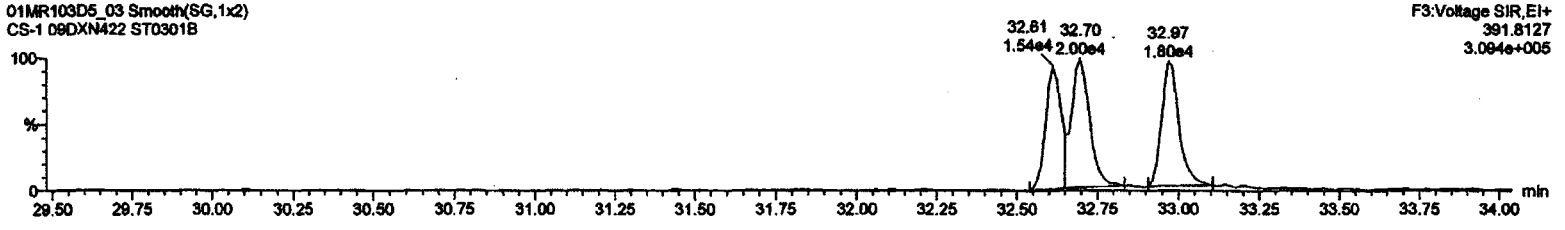
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

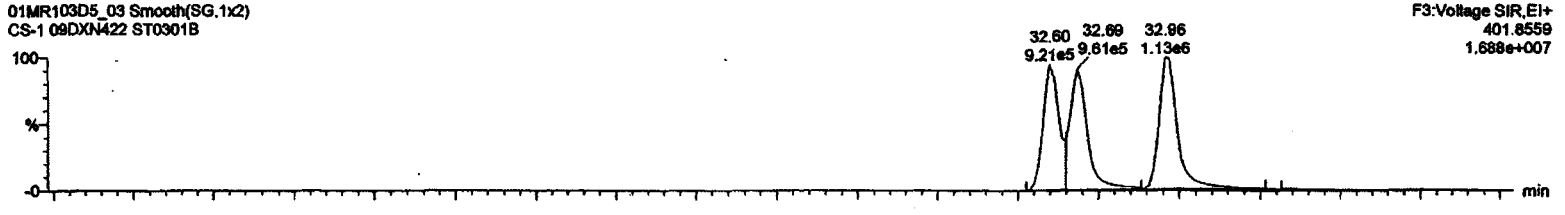
Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

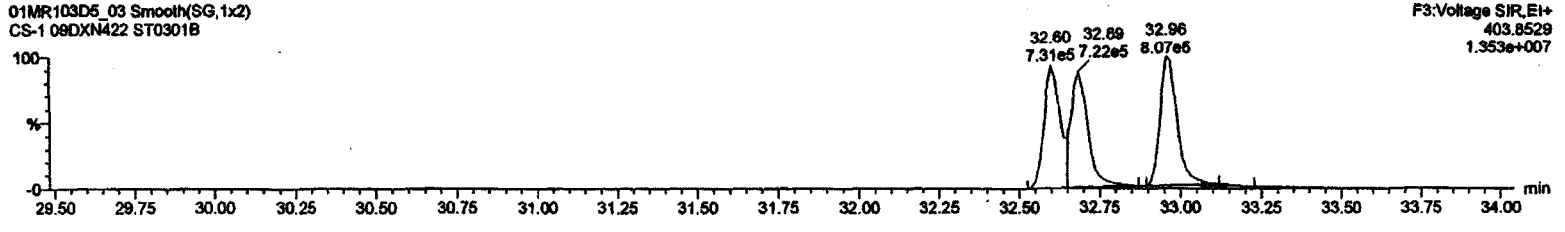
HxCDDs





13C-HxCDDs





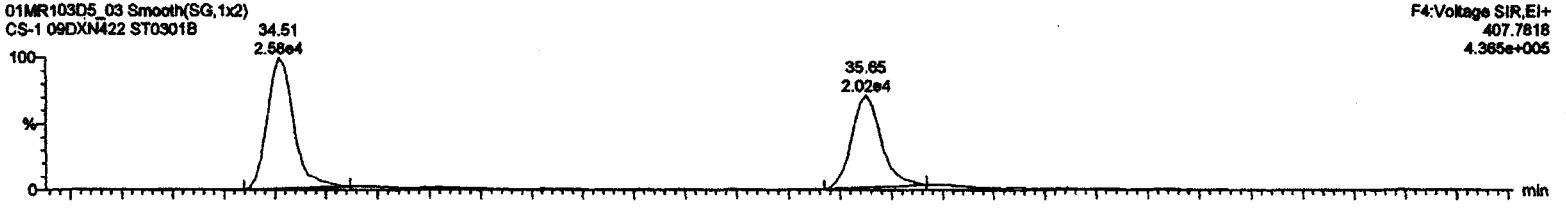
Quantify Sample Report **MassLynx 4.1**

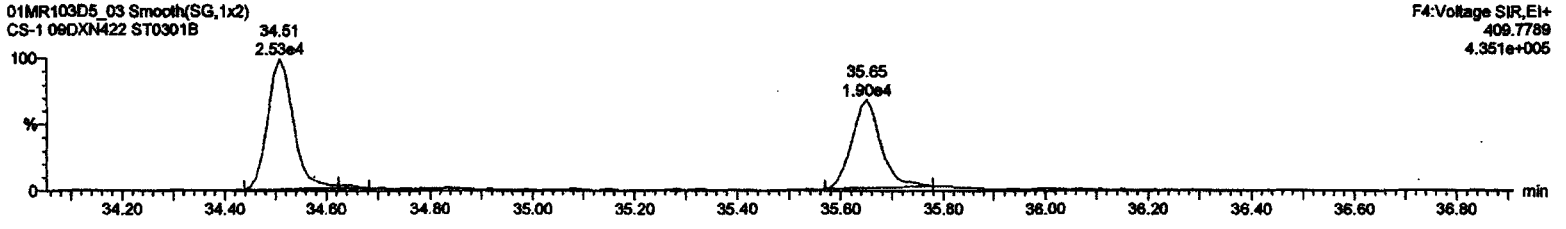
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

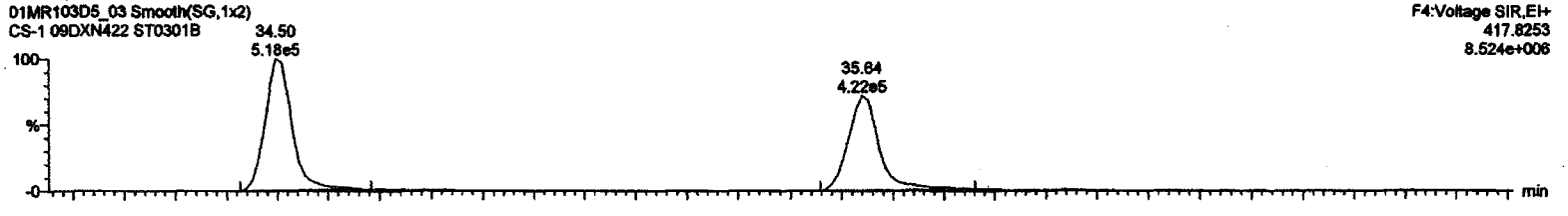
Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

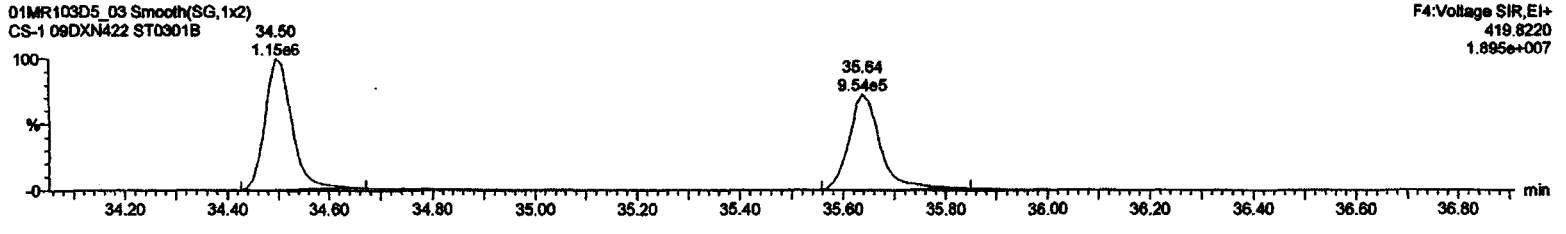
HpCDFs





13C-HpCDFs





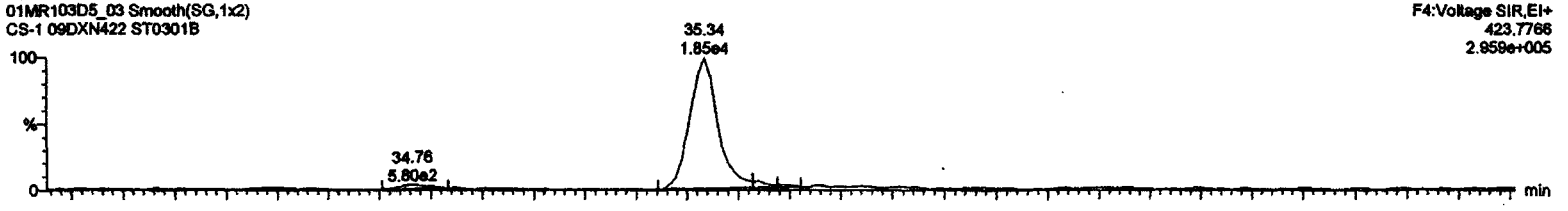
Quantify Sample Report **MassLynx 4.1**

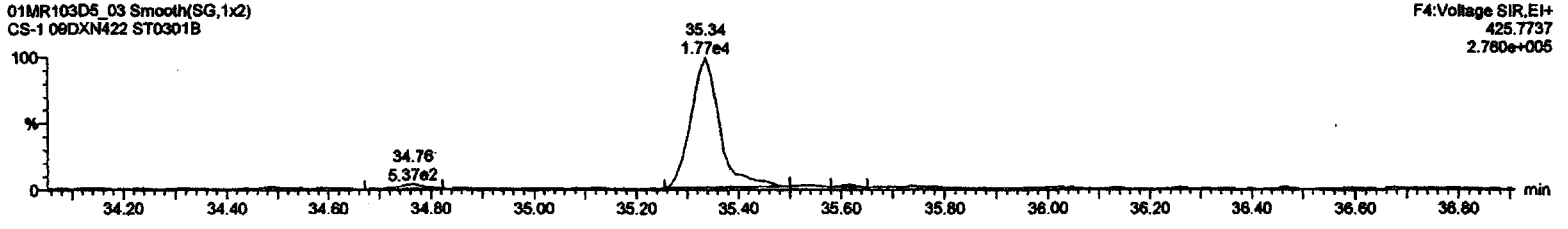
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

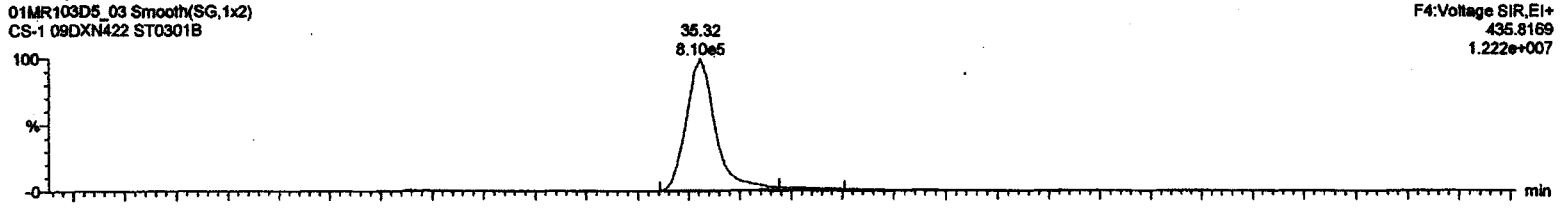
Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

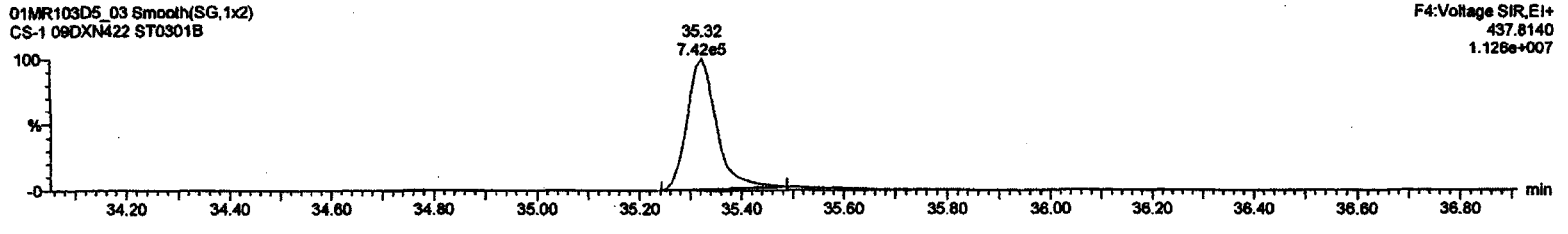
HpCDDs





13C-HpCDD





Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
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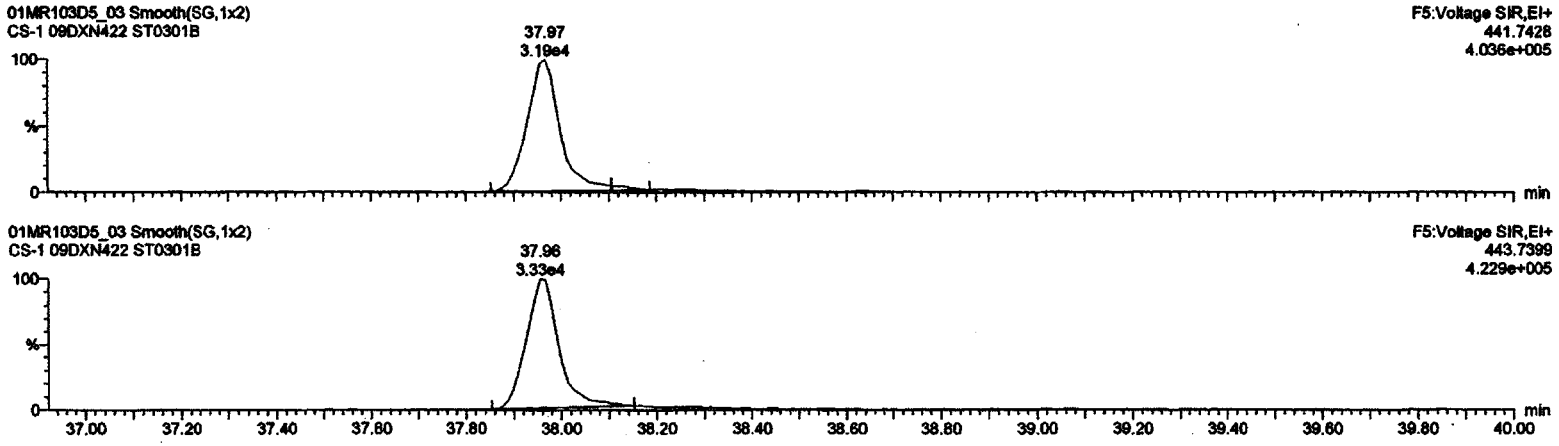
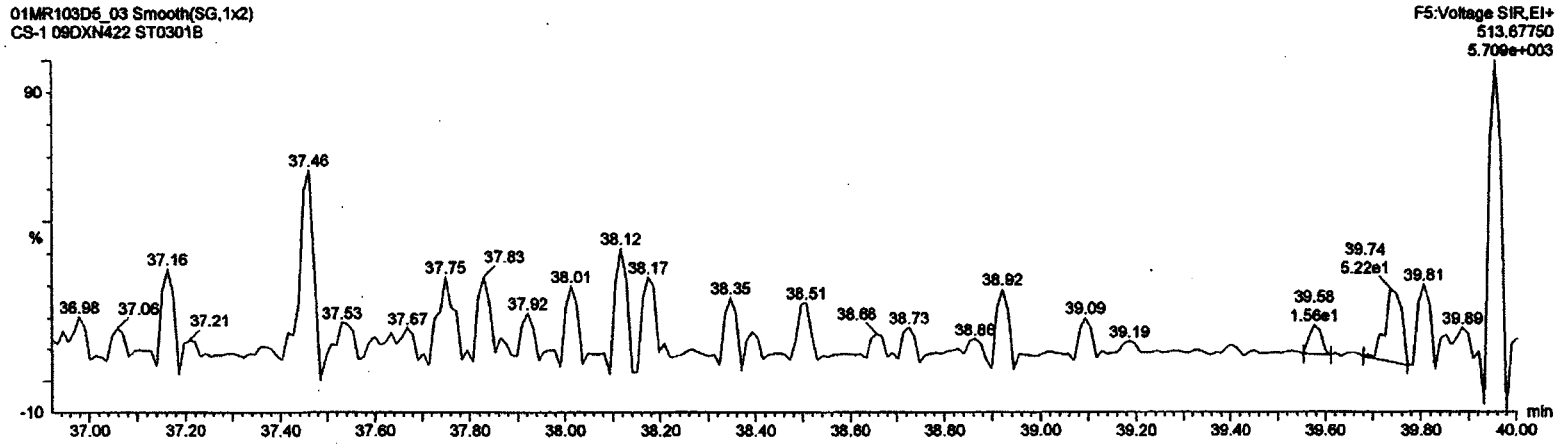
Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

OCDFs



OCDF PCDPE



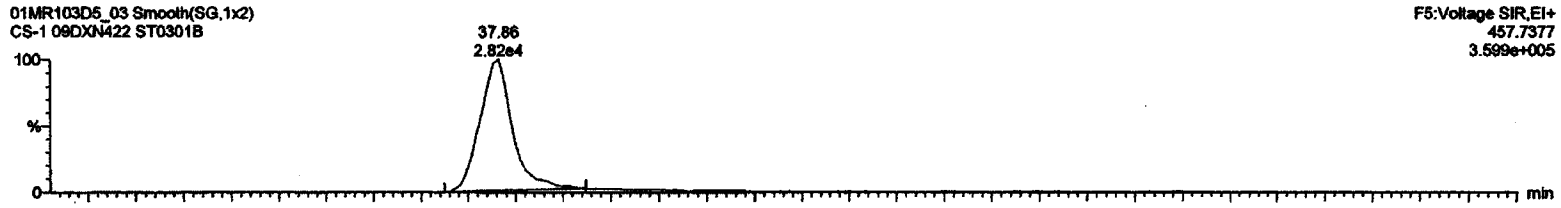
Quantify Sample Report **MassLynx 4.1**

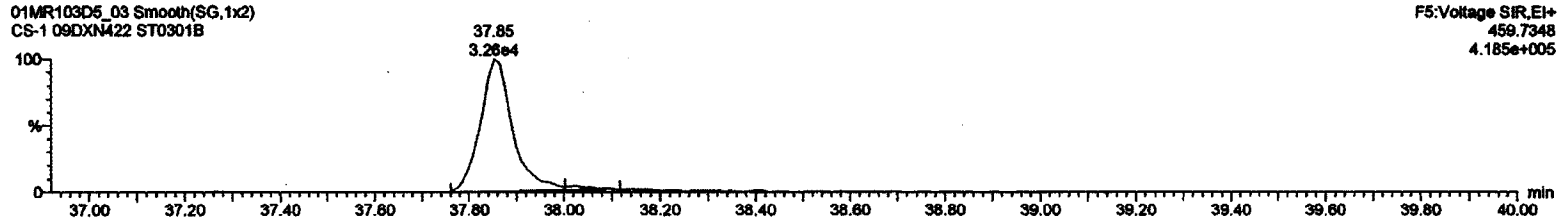
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

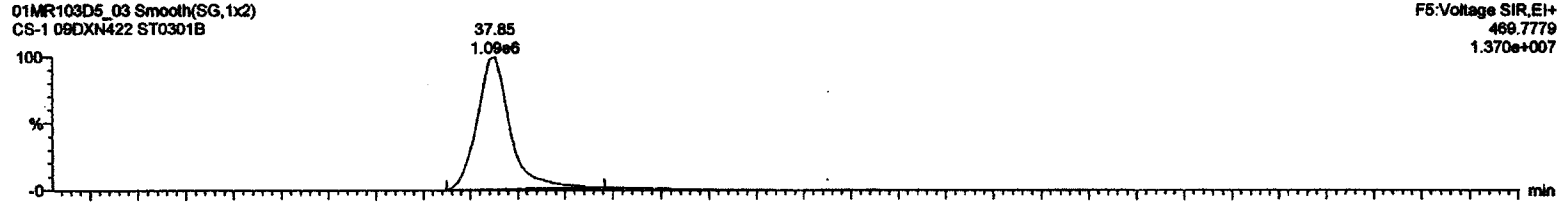
Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

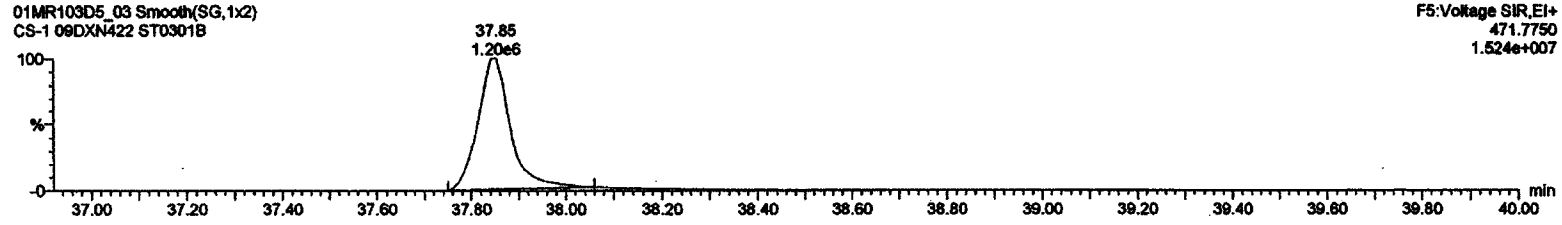
OCDD





13C-OCDD





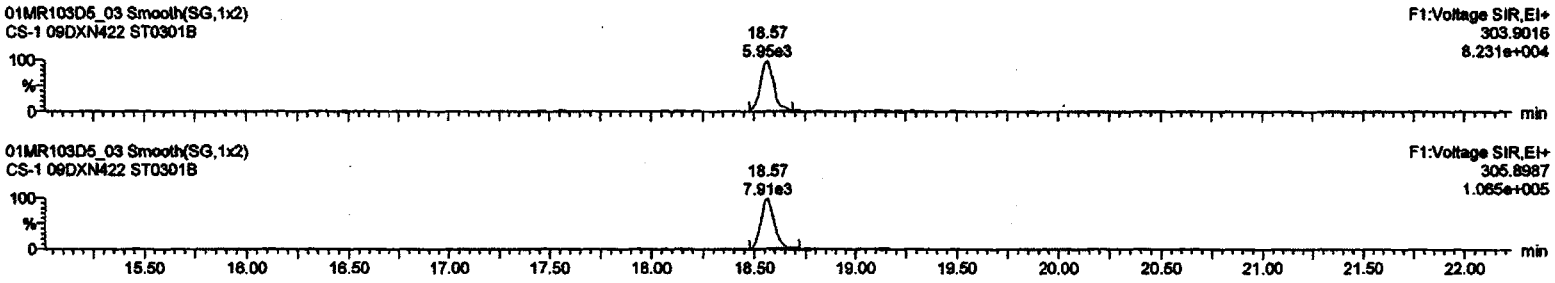
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

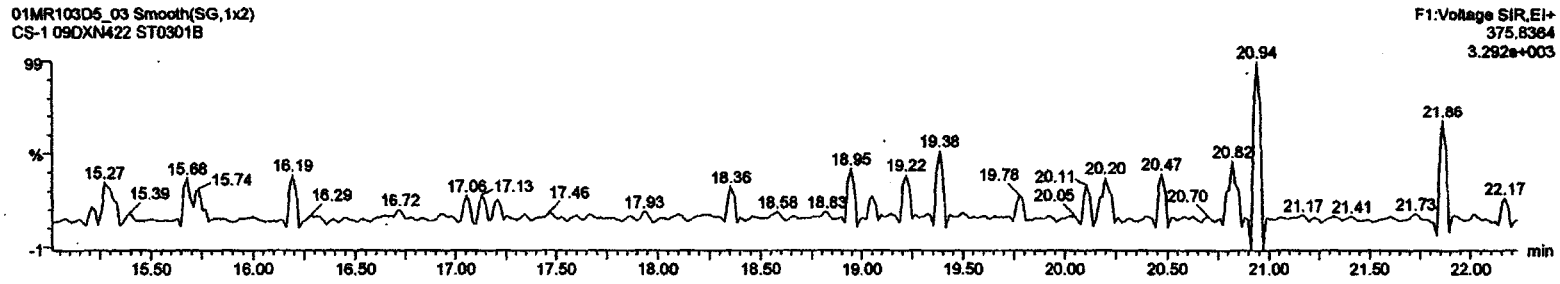
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

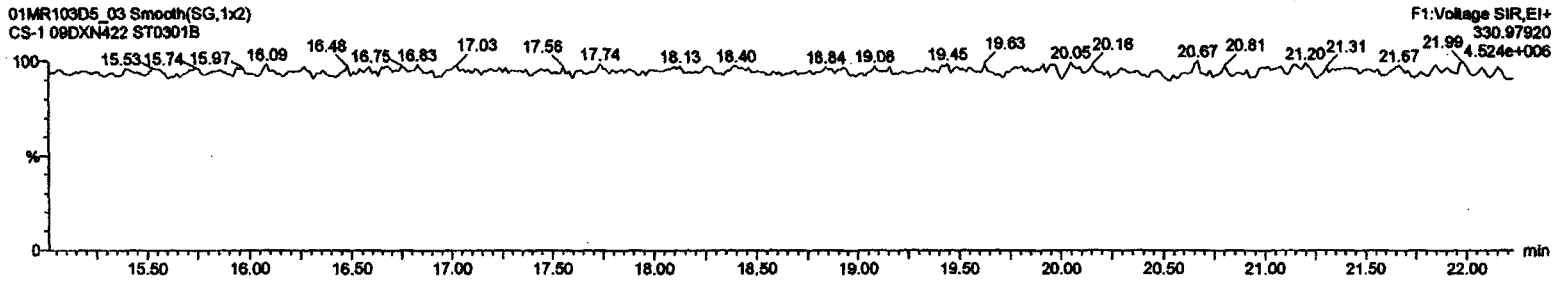
TCDFs



TCDF PCDPE



Function 1 PFK



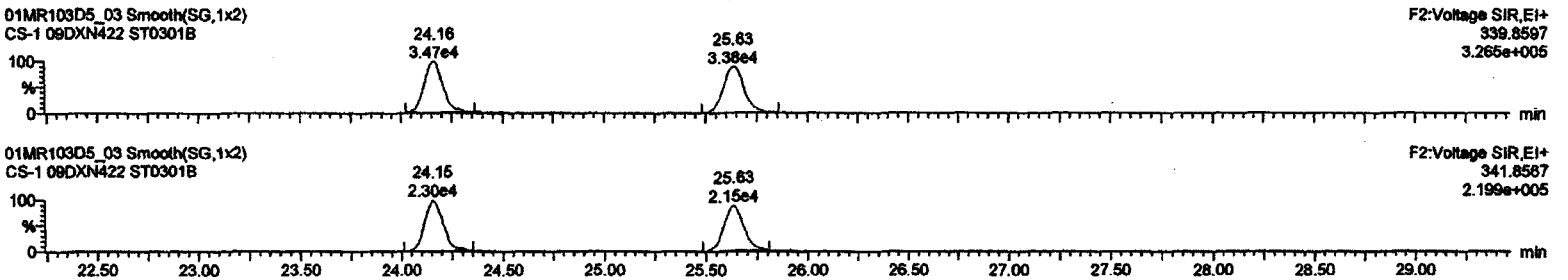
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

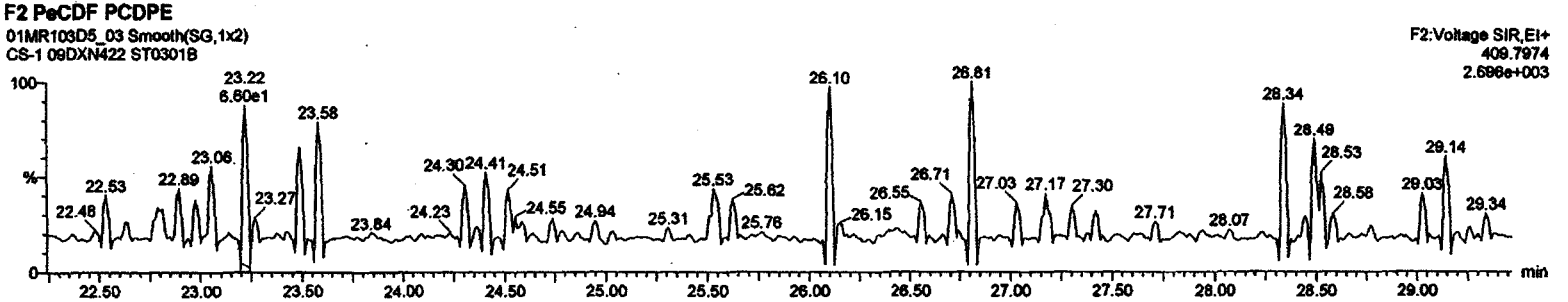
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

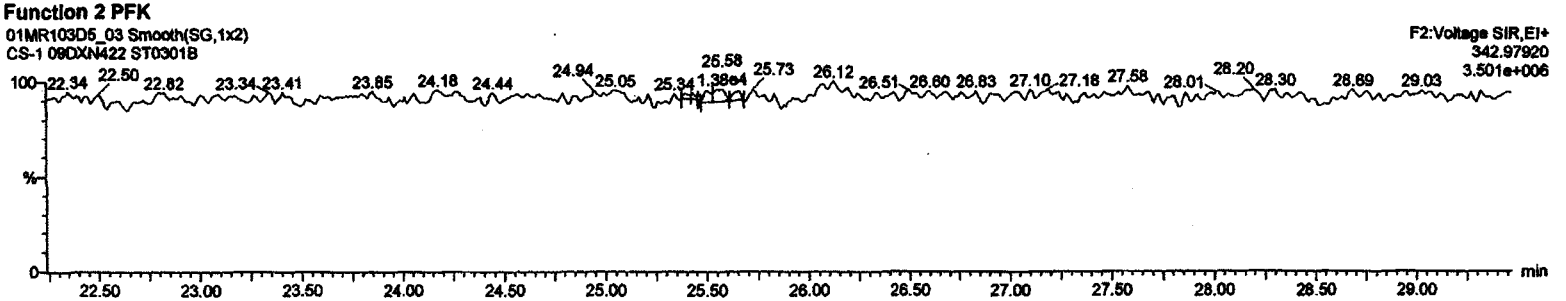
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



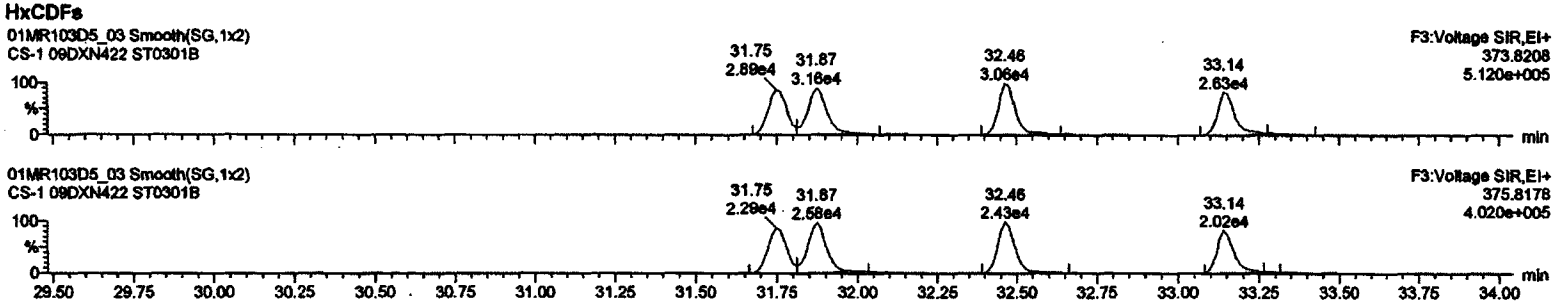
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

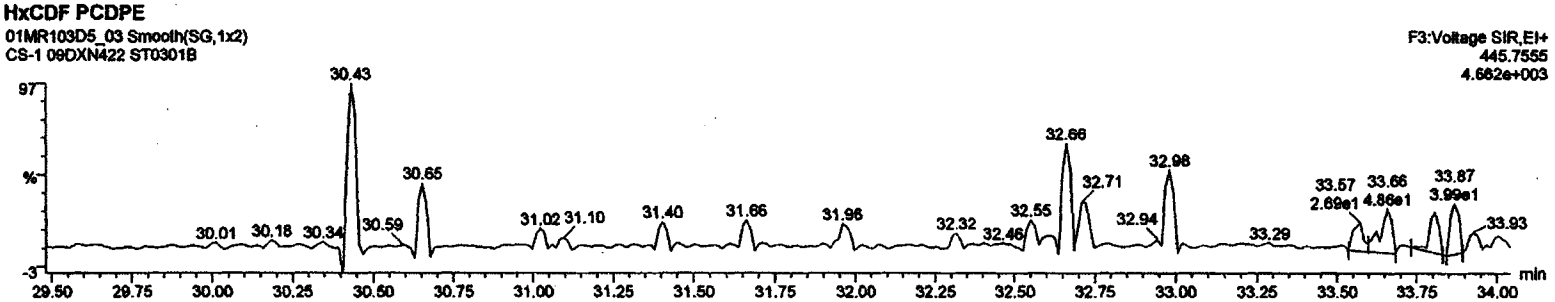
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

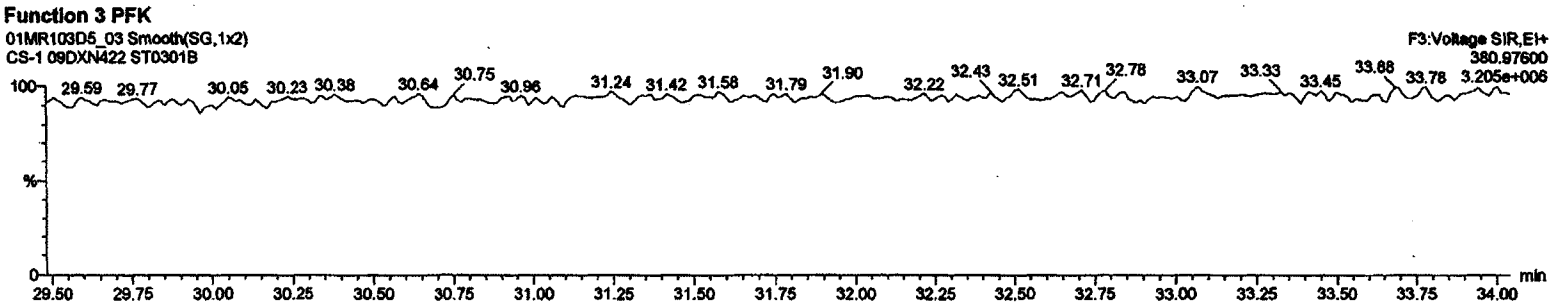
HxCDFs



HxCDF PCDPE



Function 3 PFK



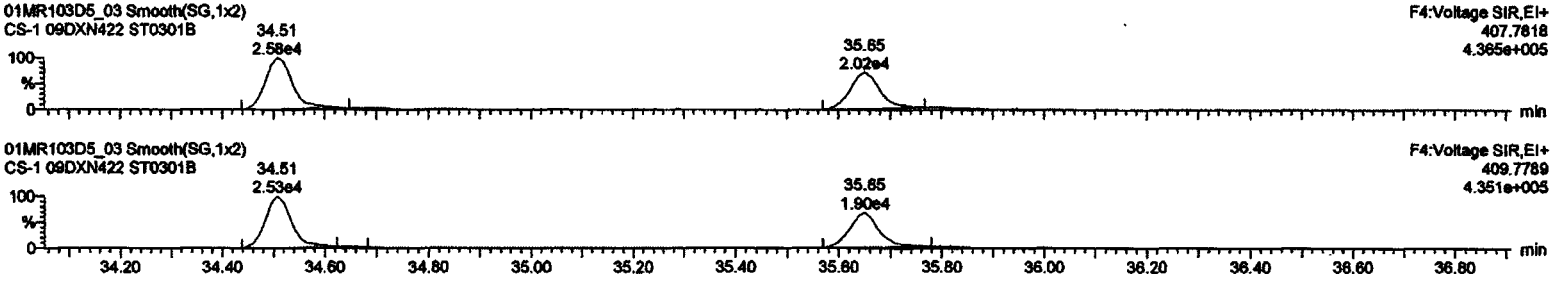
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

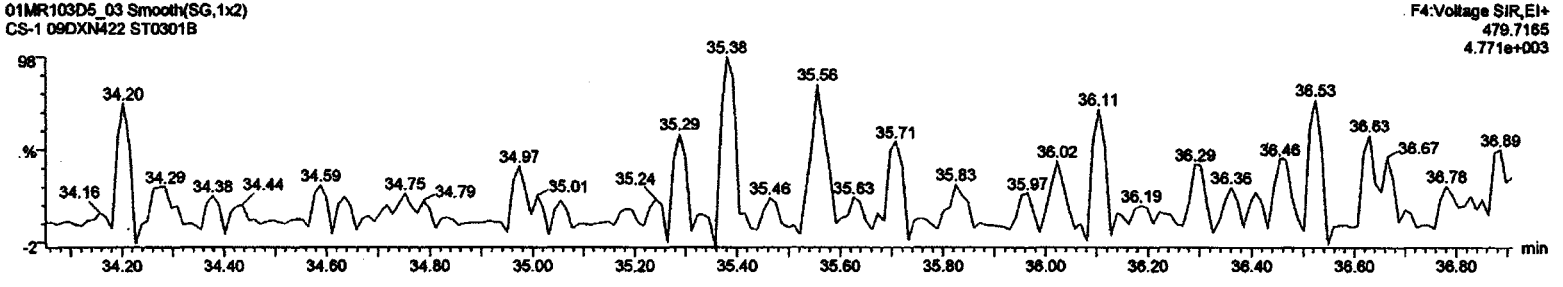
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

HpCDFs



HpCDF PCDPE



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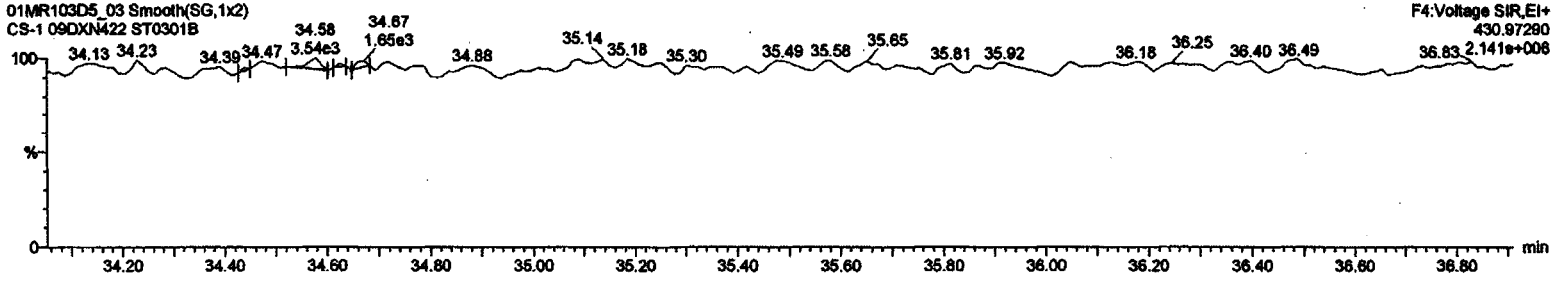


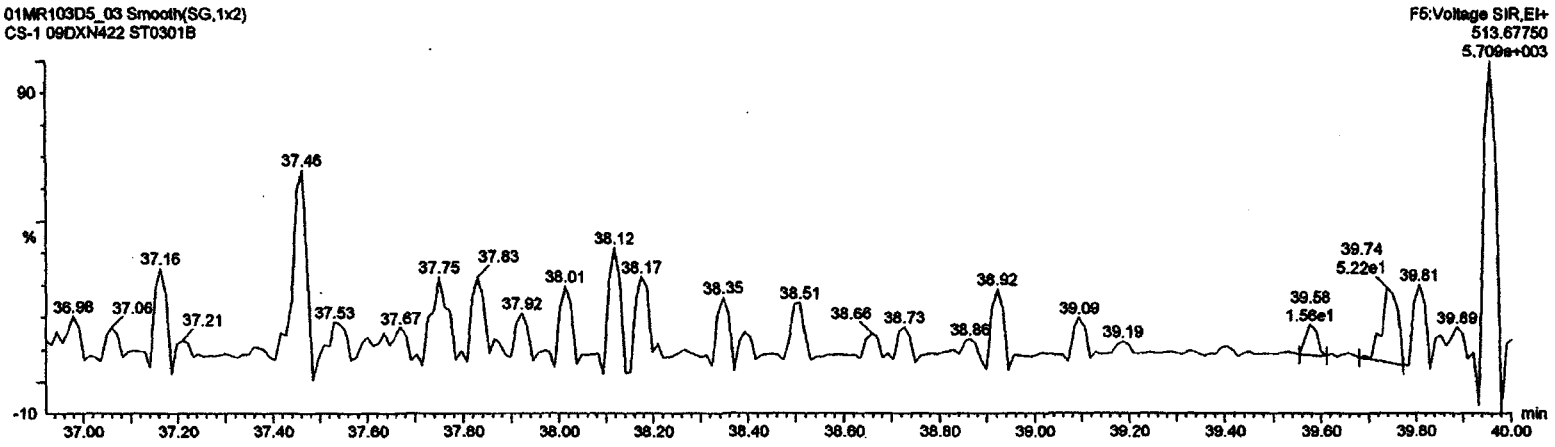
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

OCDF PCDPE



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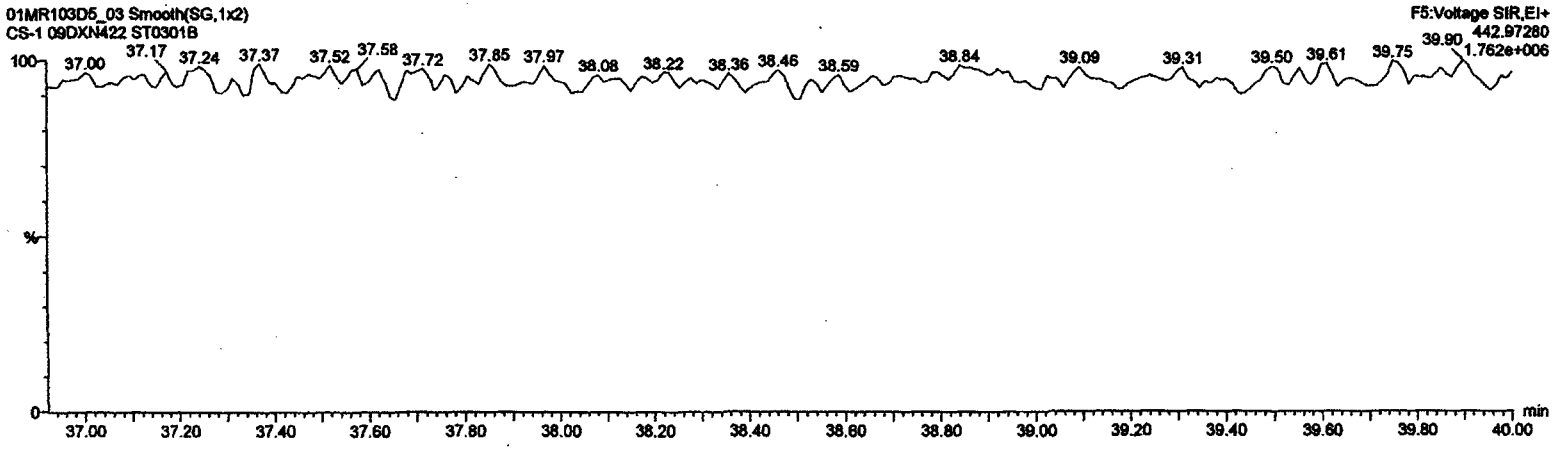


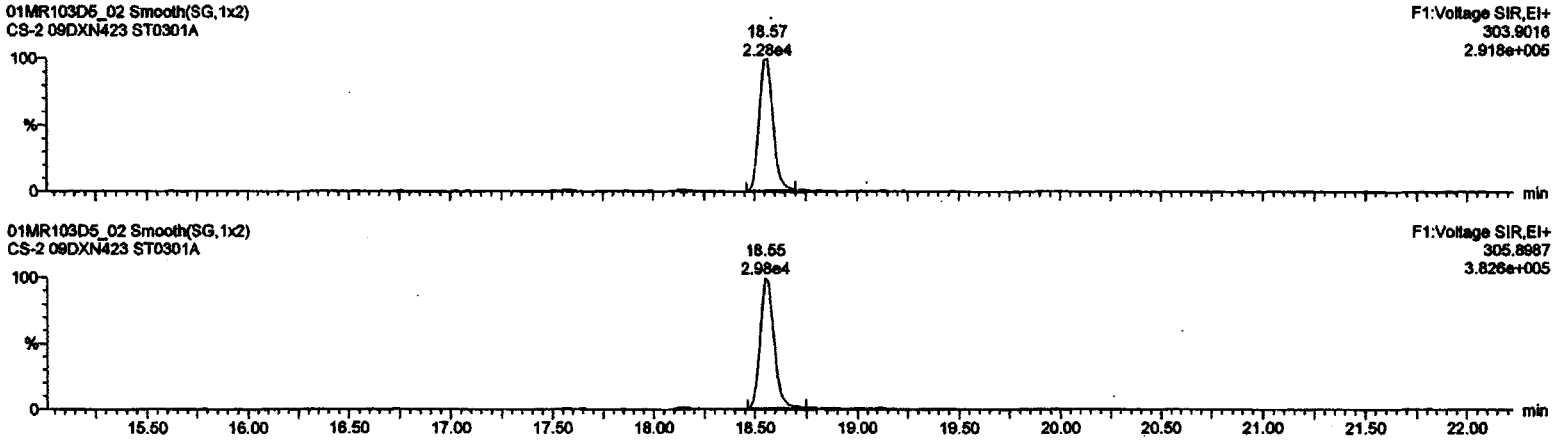
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\CA030120103D51613.qld

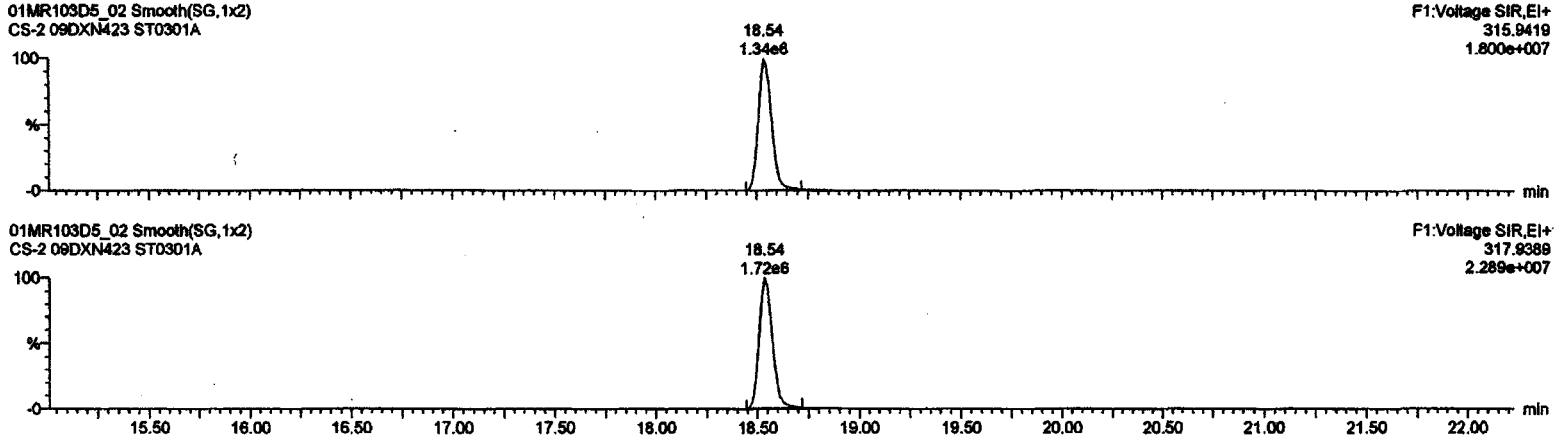
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

TCDFs



13C-TCDF



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

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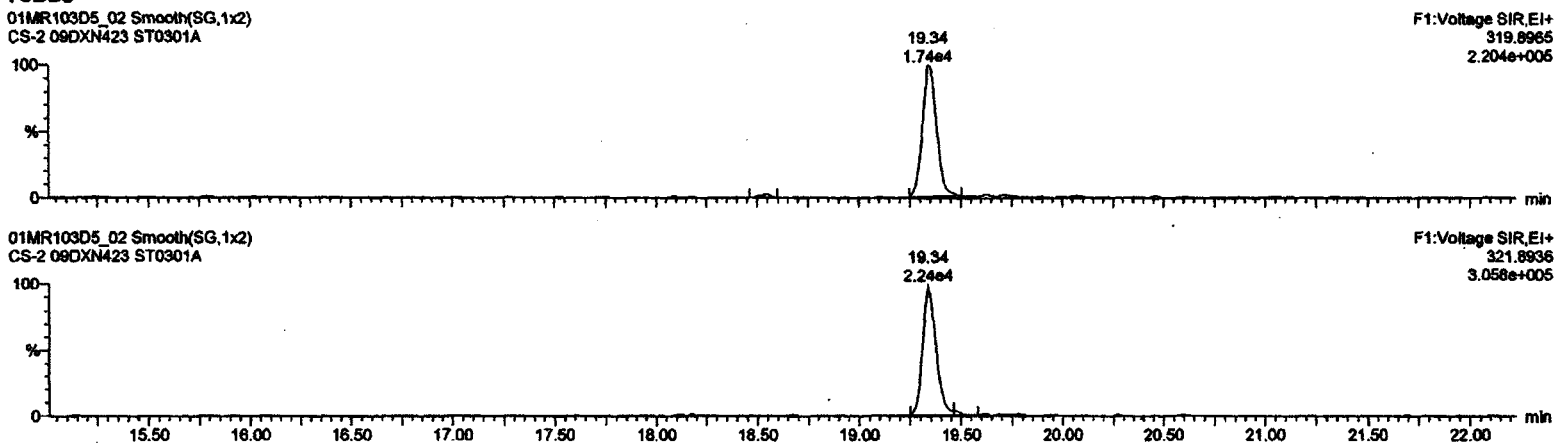
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

TCDDs



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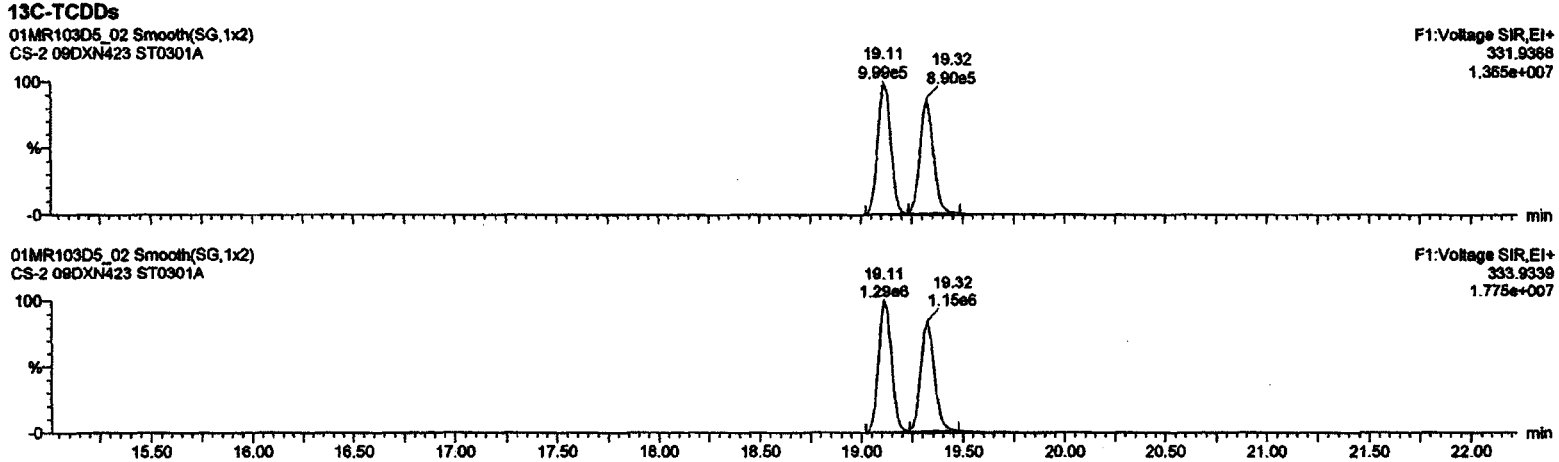


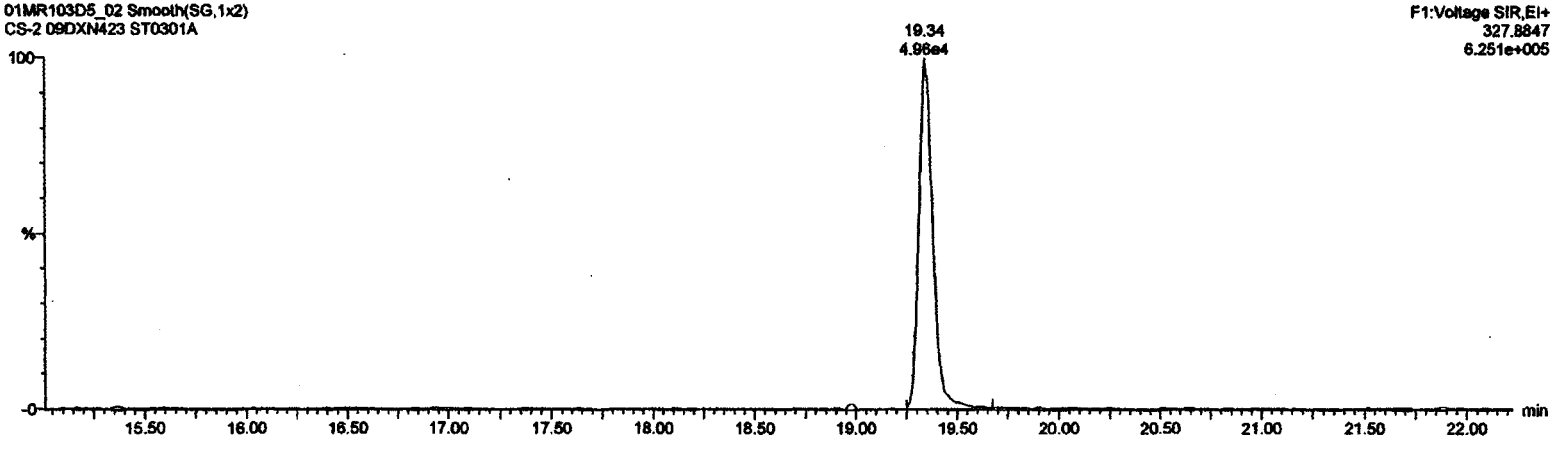
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

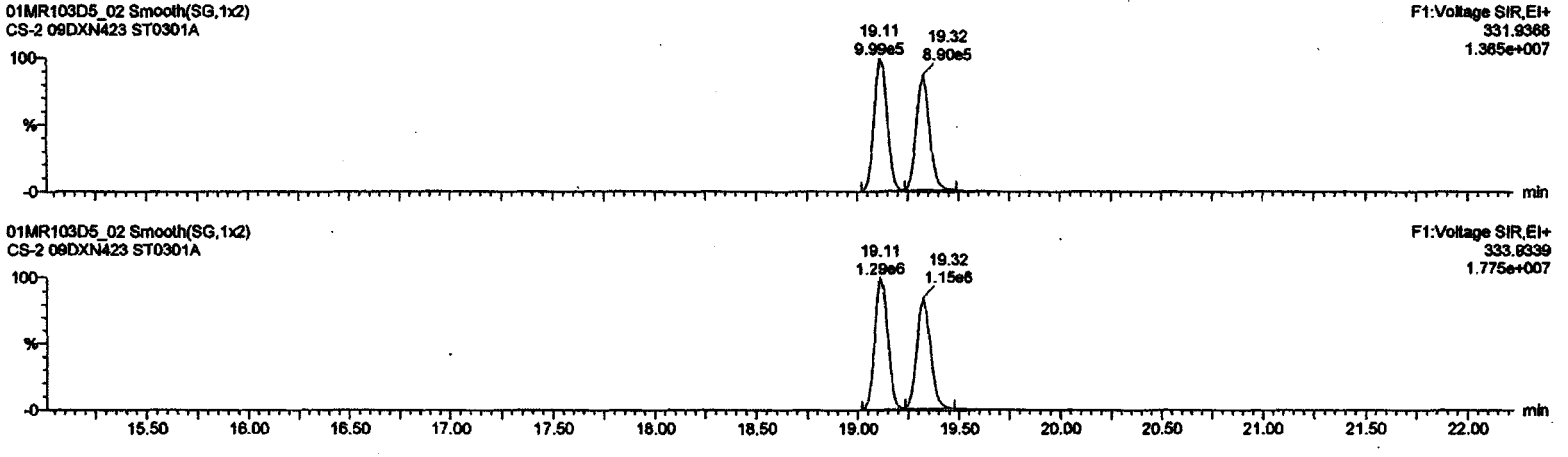
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

37CL-2,3,7,8-TCDD



13C-TCDDs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

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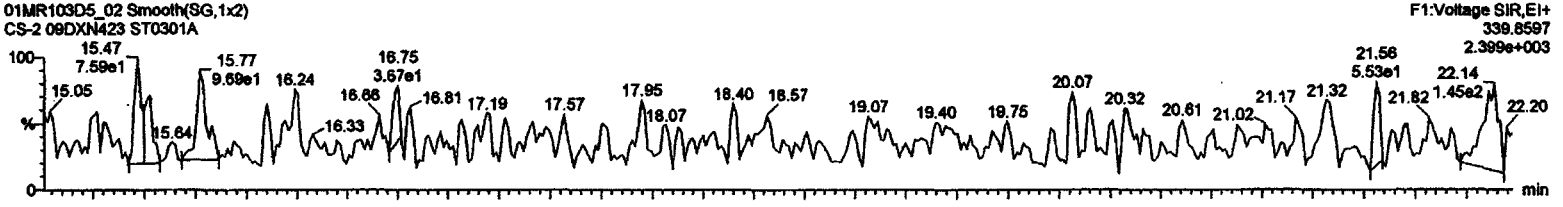
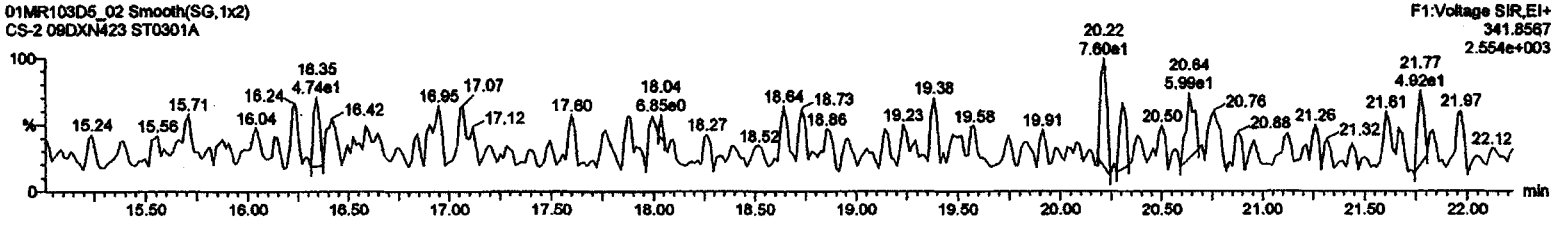
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

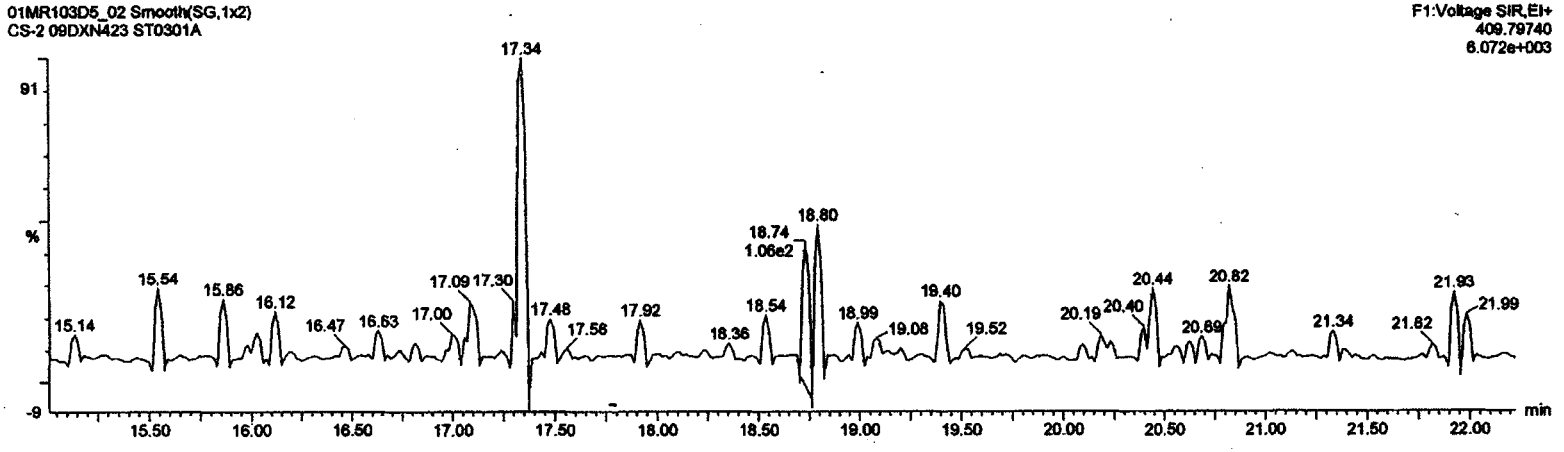
Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

F1 PeCDFs





F1 PeCDF PCDPE



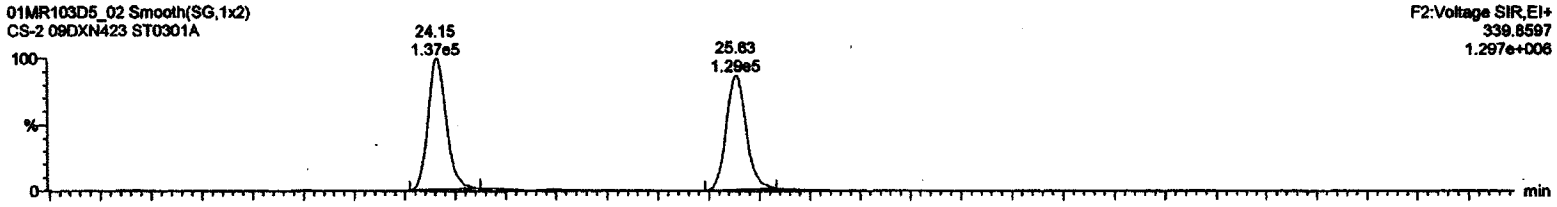
Quantify Sample Report **MassLynx 4.1**

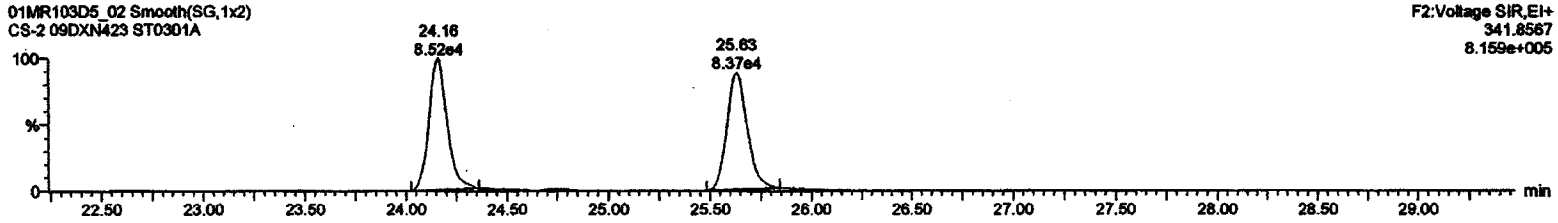
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

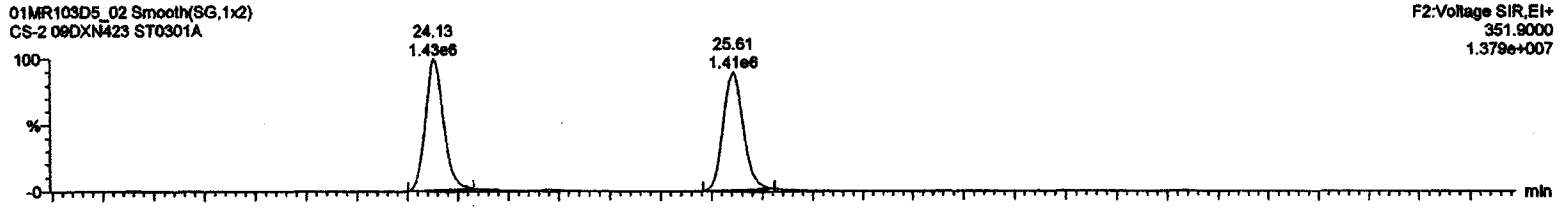
Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

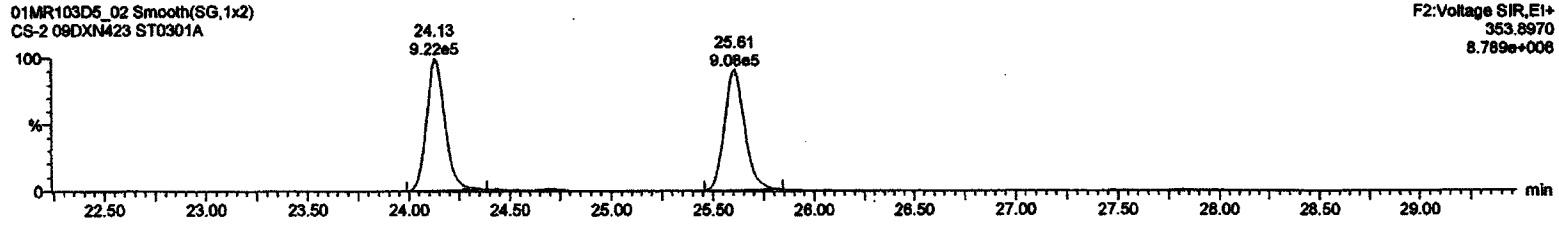
PeCDFs





13C-PeCDFs





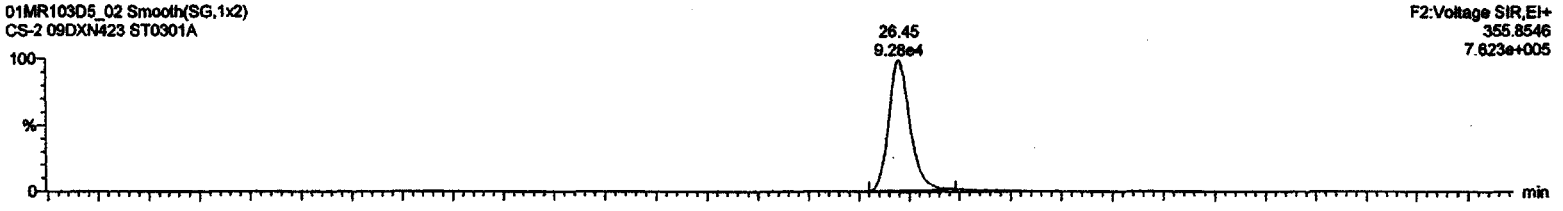
Quantify Sample Report **MassLynx 4.1**

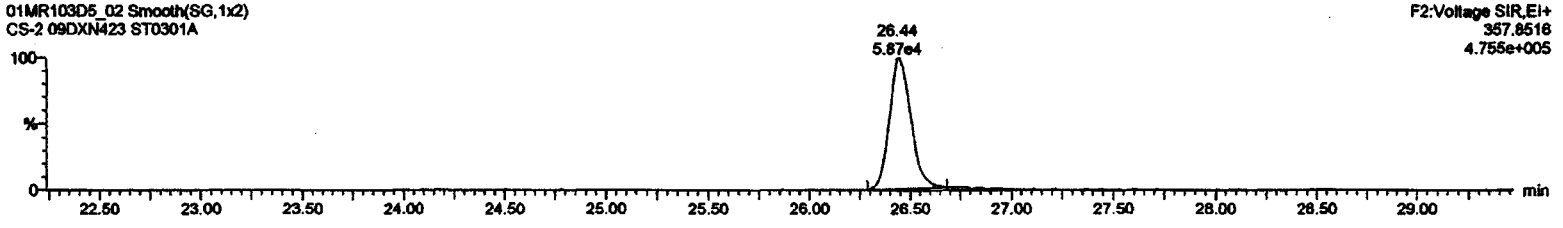
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

PeCDDs





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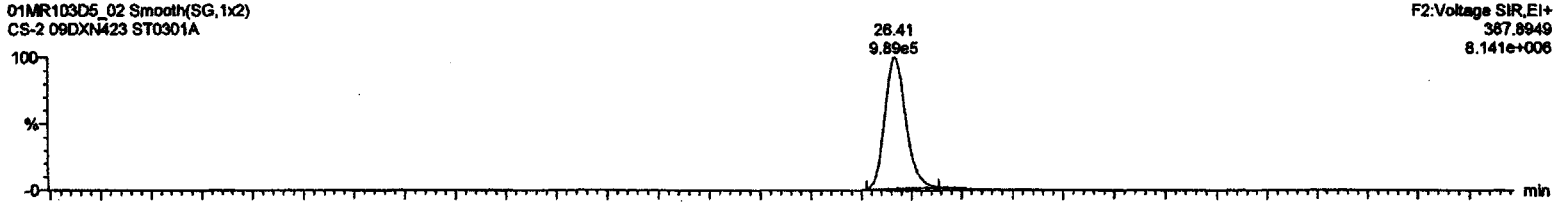
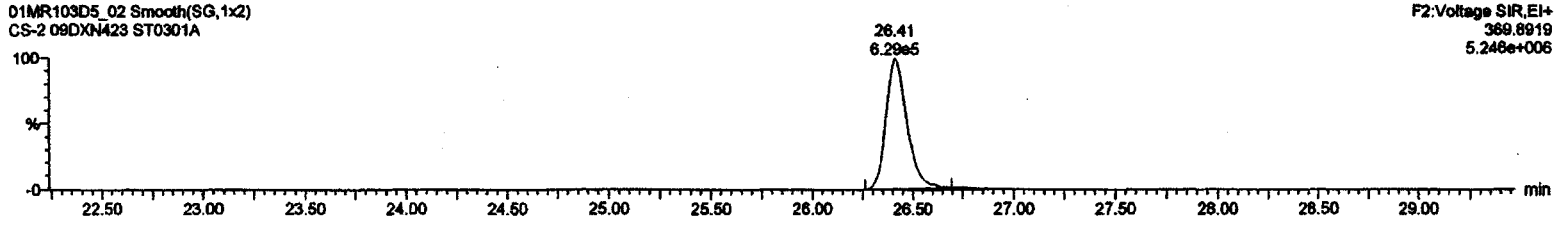




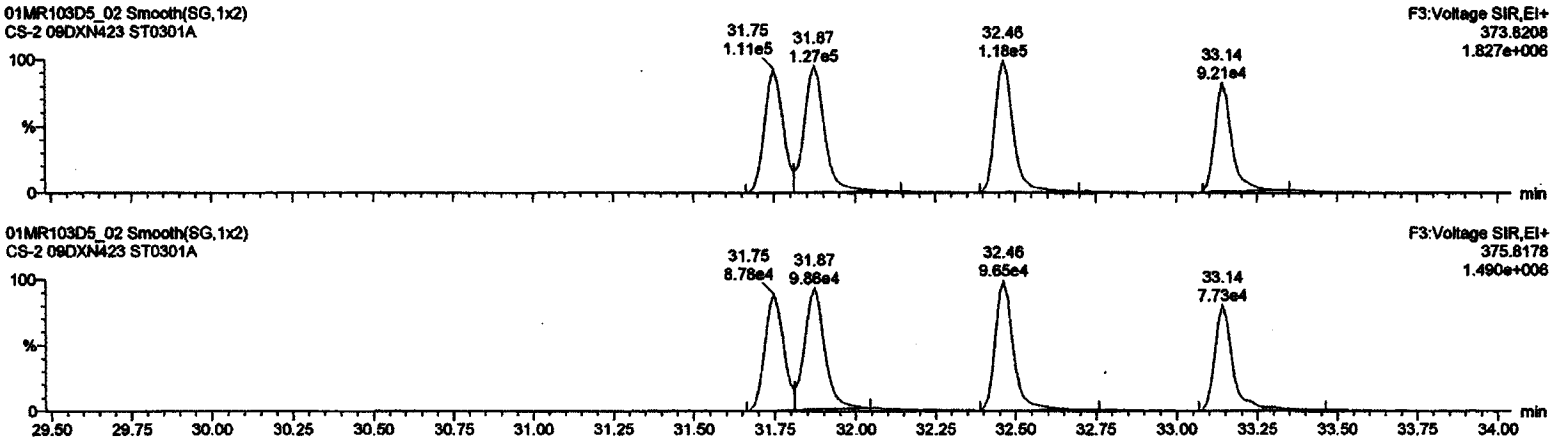
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

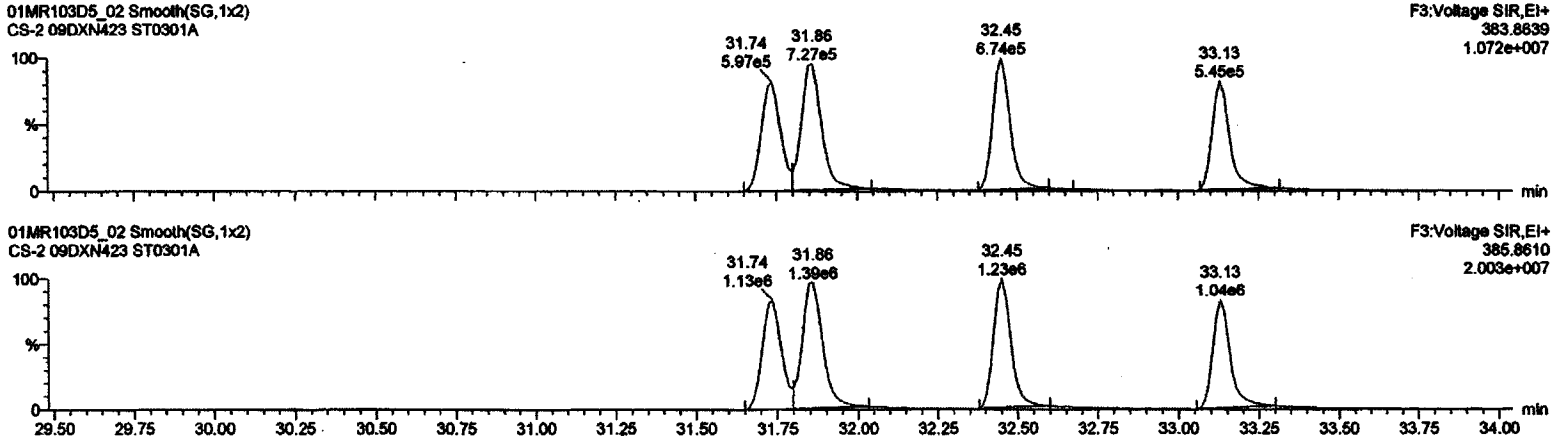
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

HxCDFs



13C-HxCDFs



Quantify Sample Report **MassLynx 4.1**

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Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

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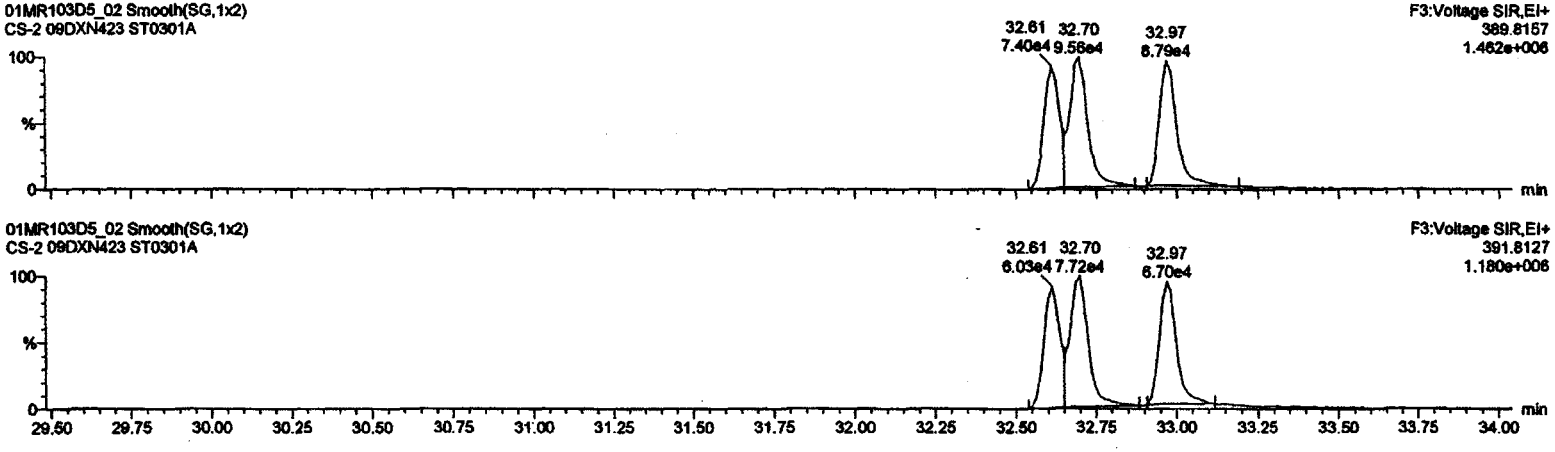
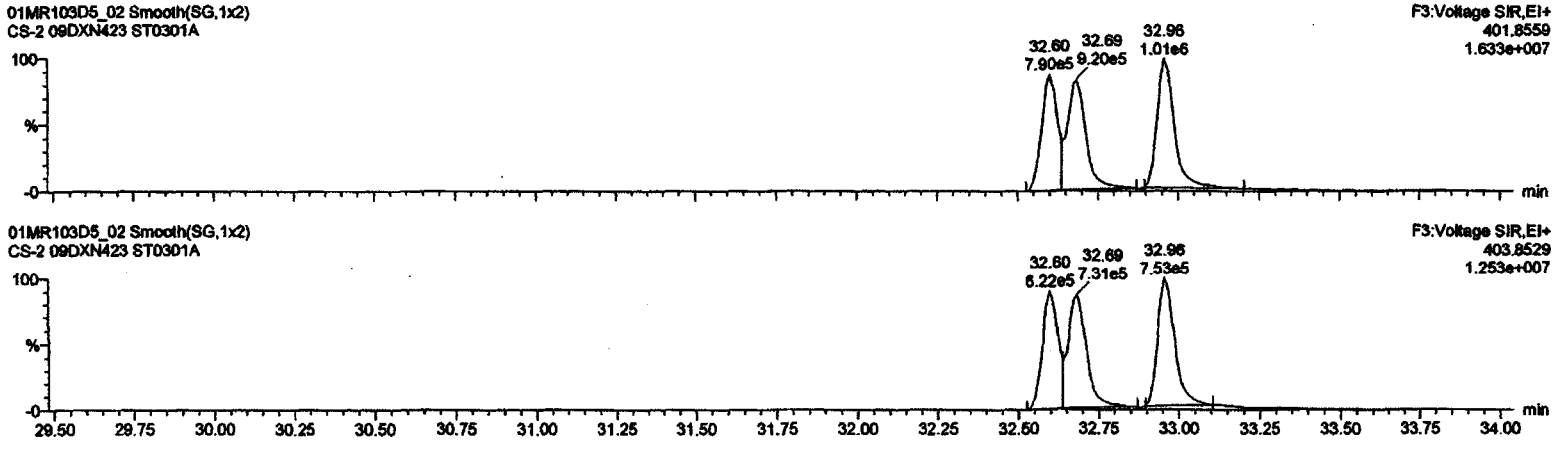
HxCDDs



13C-HxCDDs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

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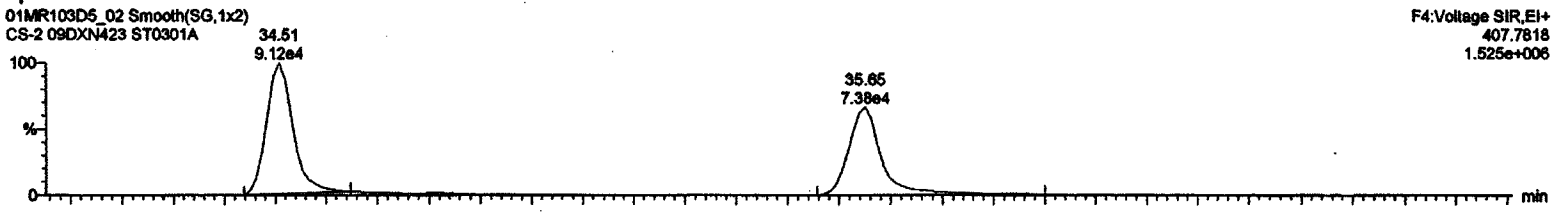
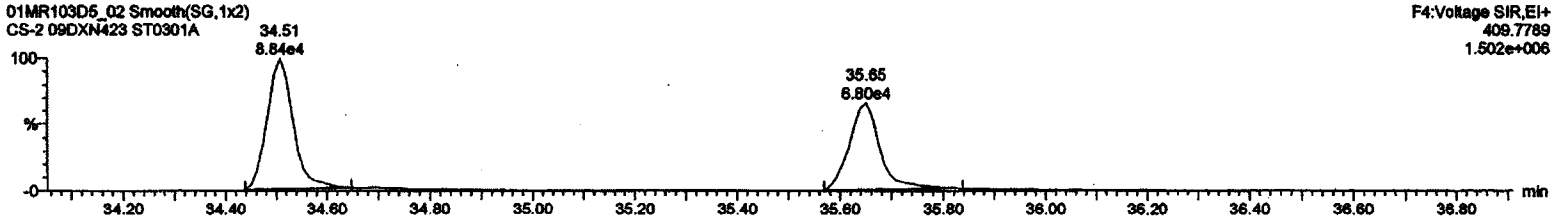
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

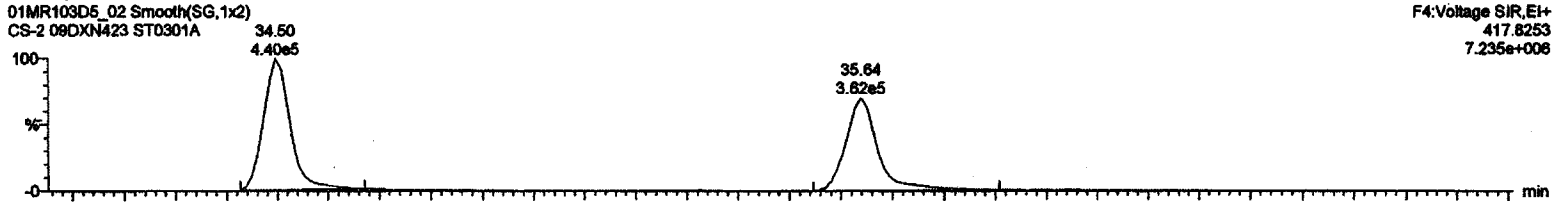
Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

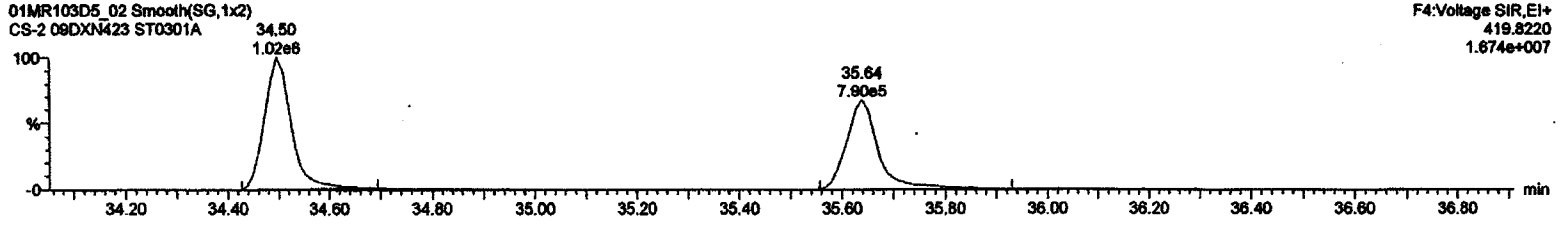
HpCDFs





13C-HpCDFs





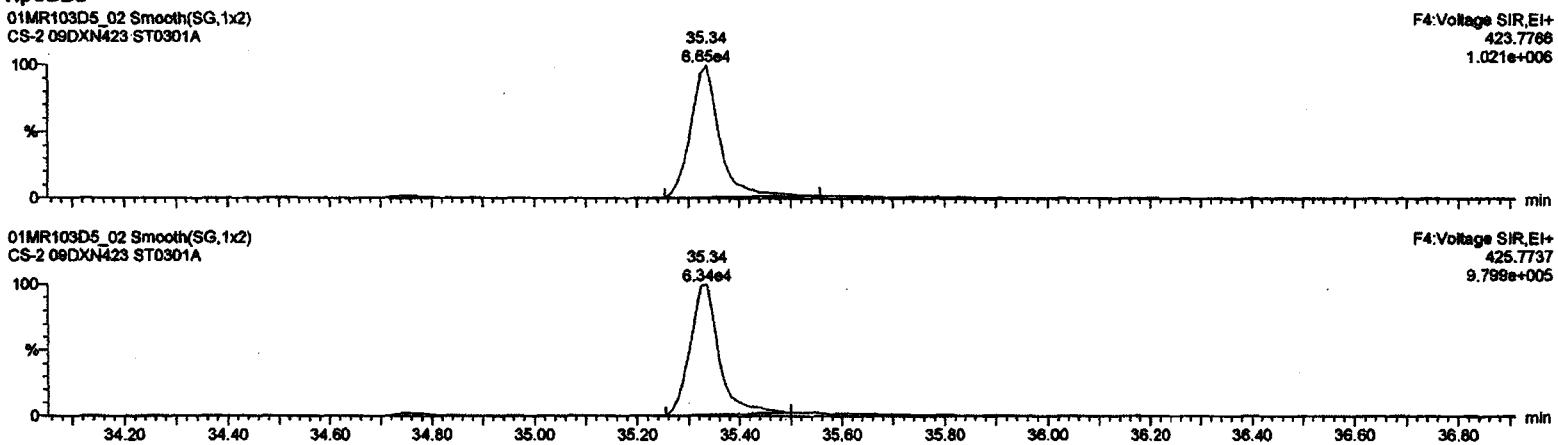
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

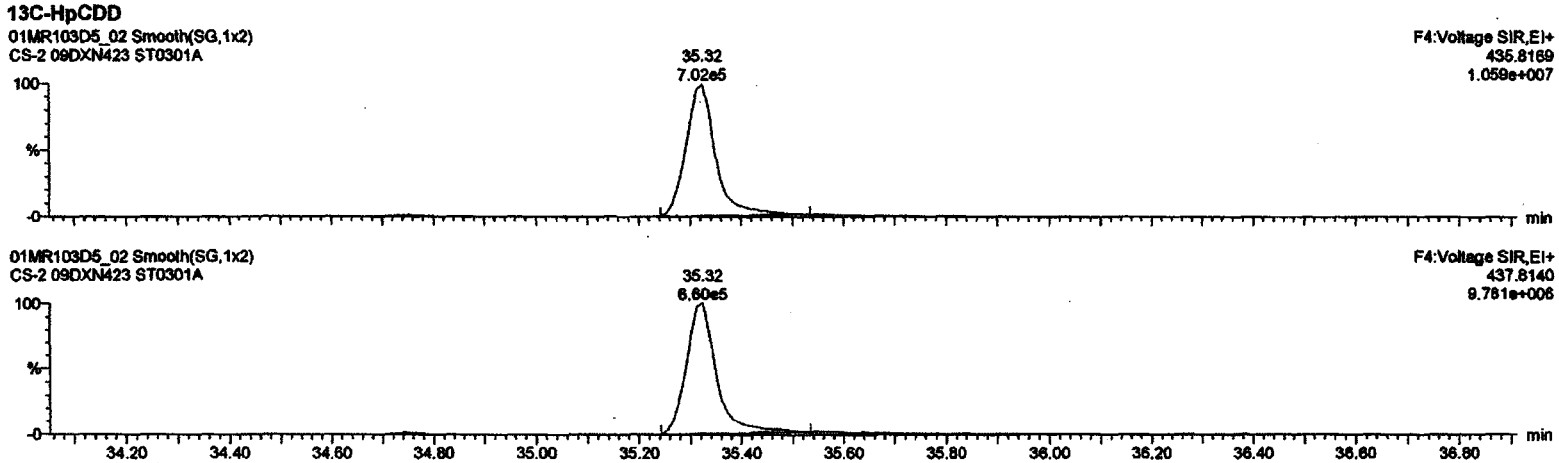
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

HpCDDs



13C-HpCDD



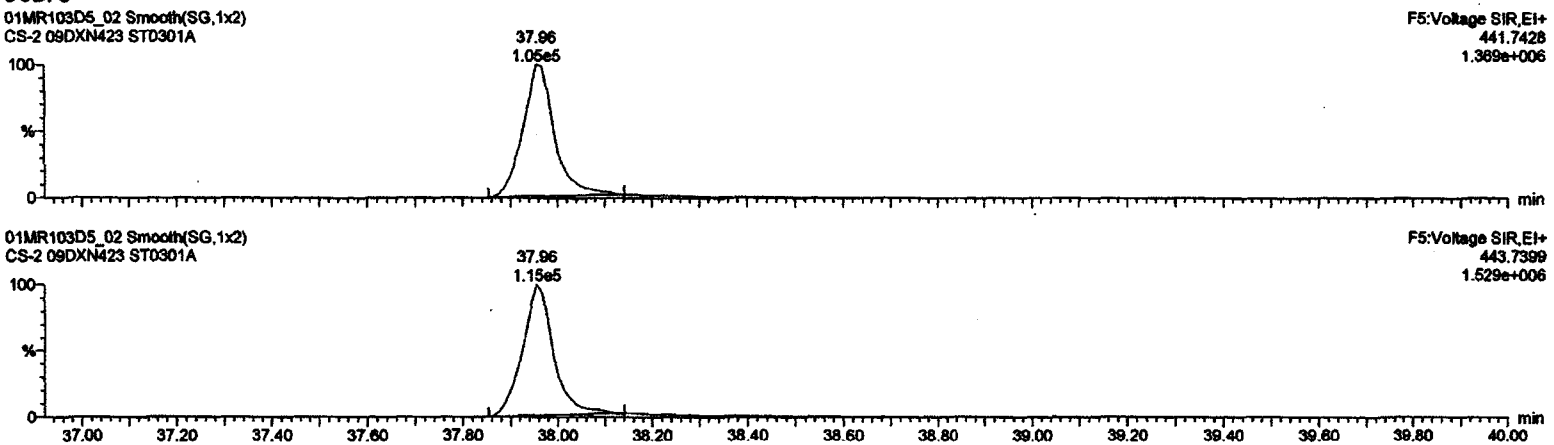
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

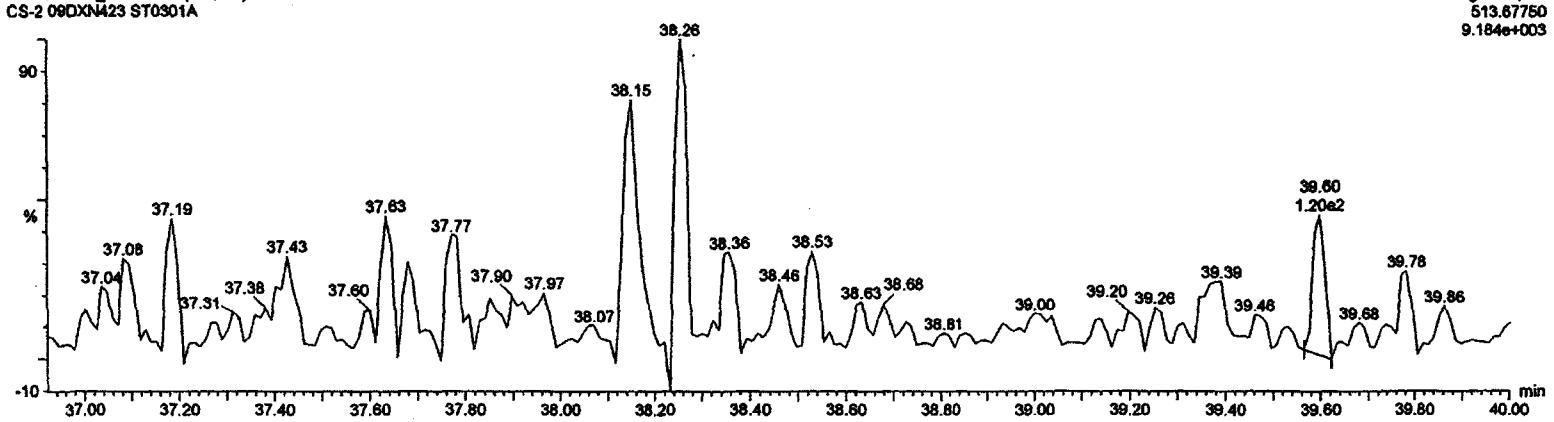
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

OCDFs



OCDF PCDPE



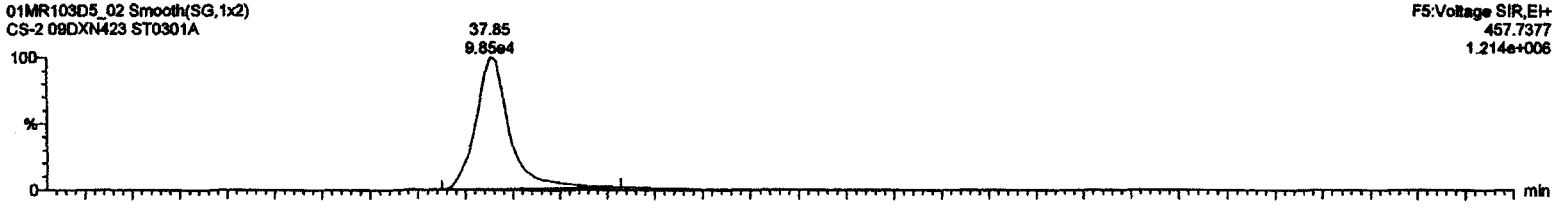
Quantify Sample Report **MassLynx 4.1**

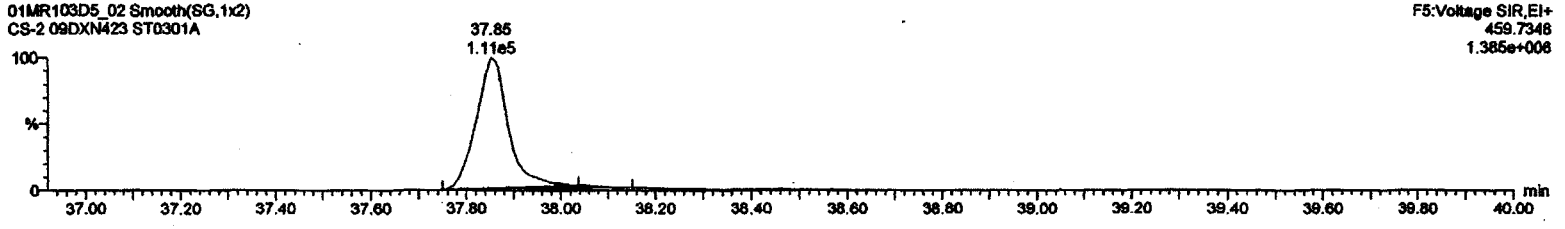
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

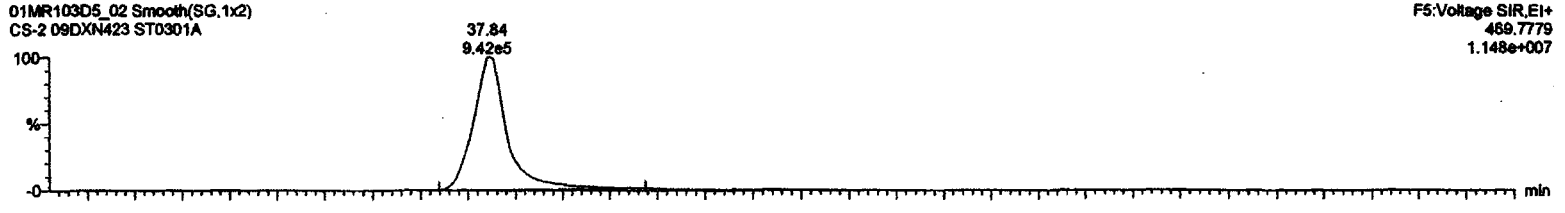
Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

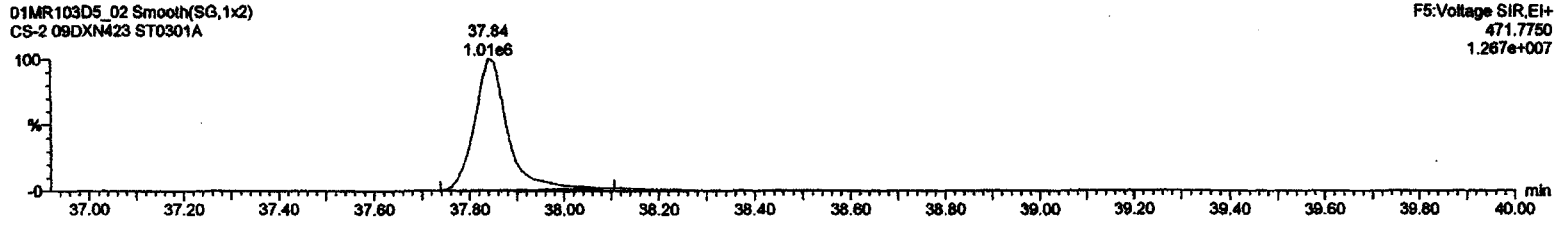
OCDD





13C-OCDD





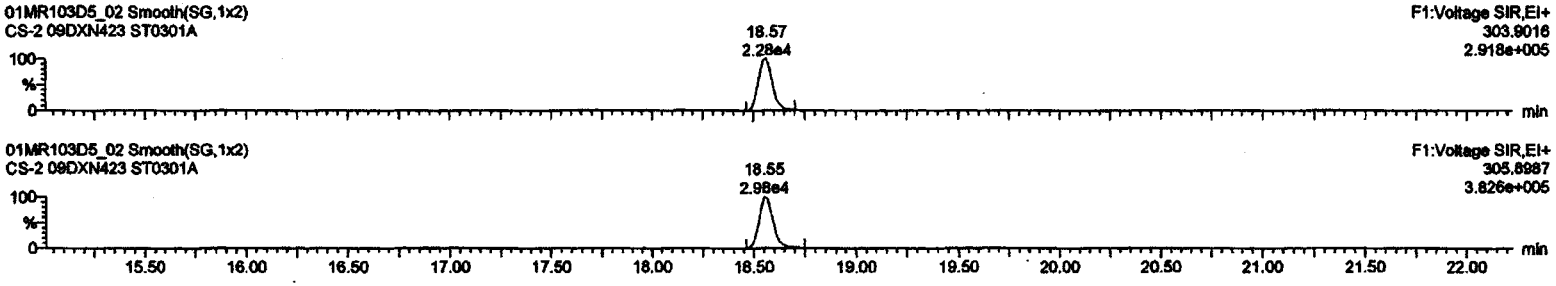
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

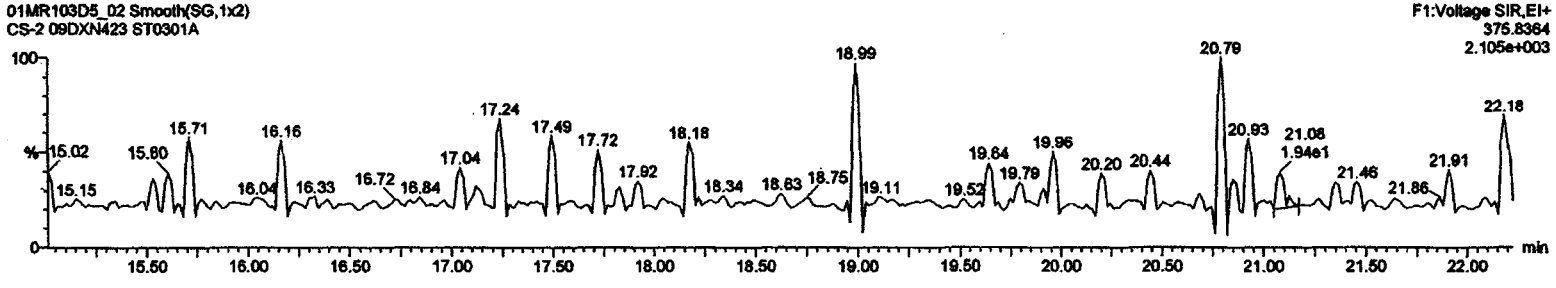
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

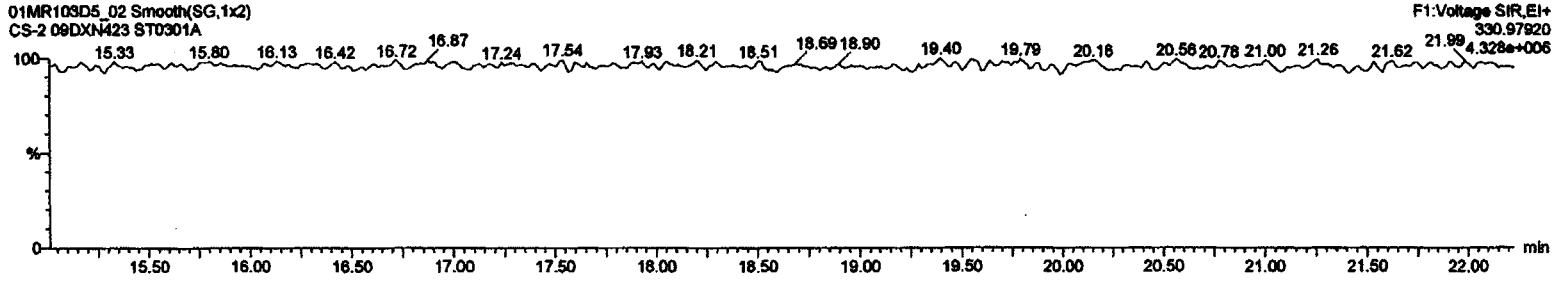
TCDFs



TCDF PCDPE



Function 1 PFK



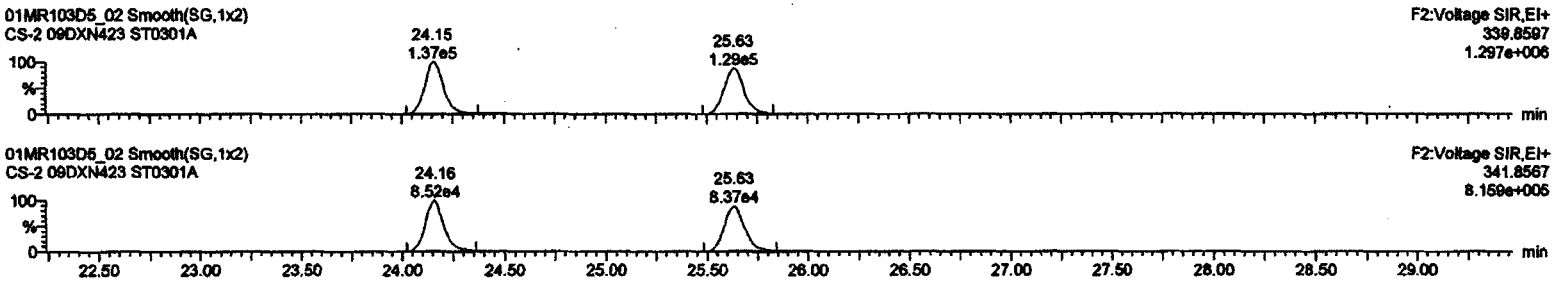
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

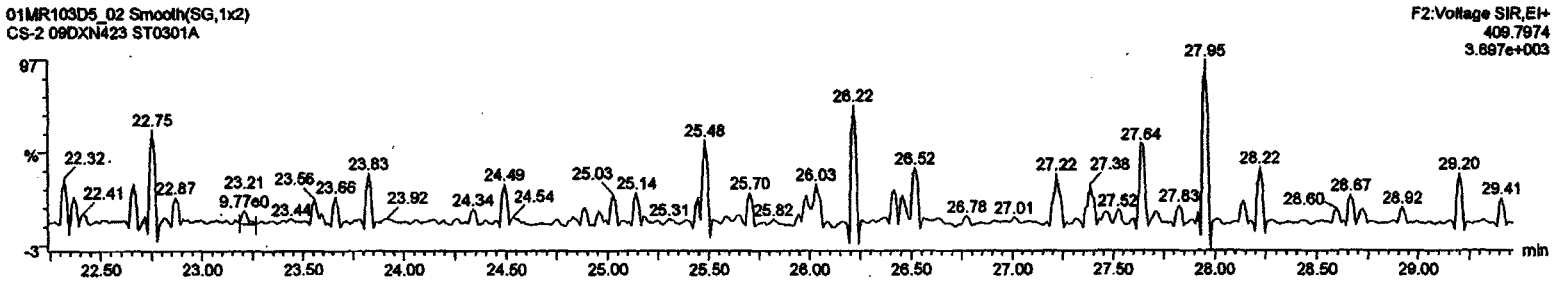
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

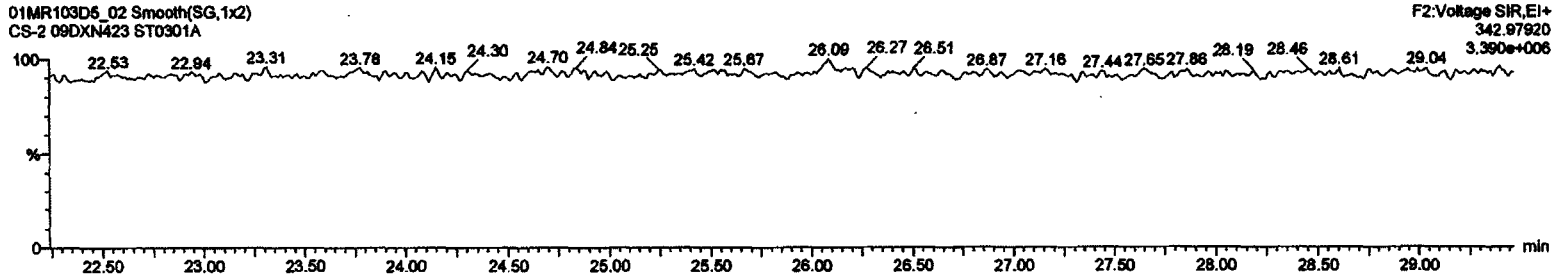
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



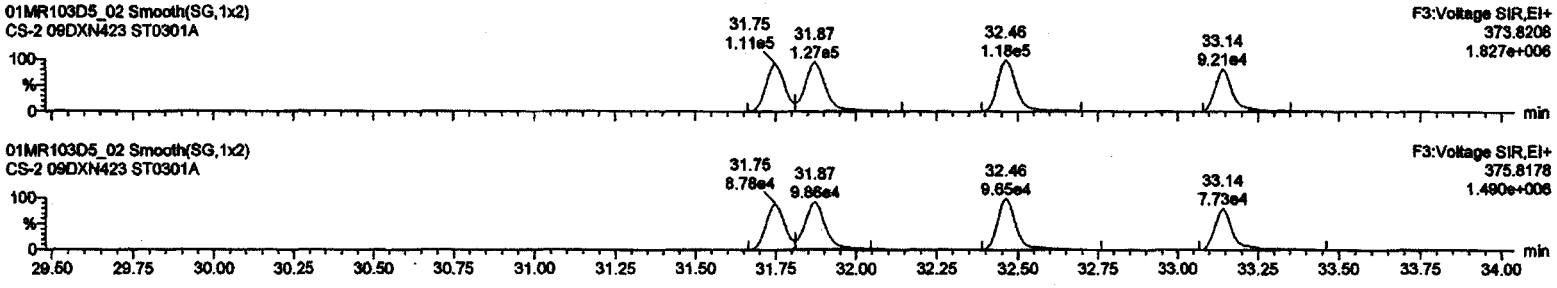
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\CA030120103D51613.qld

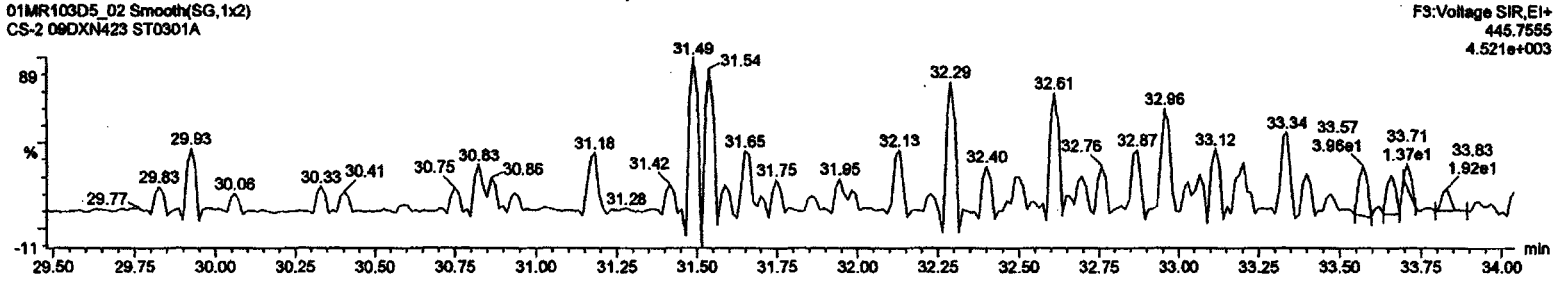
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

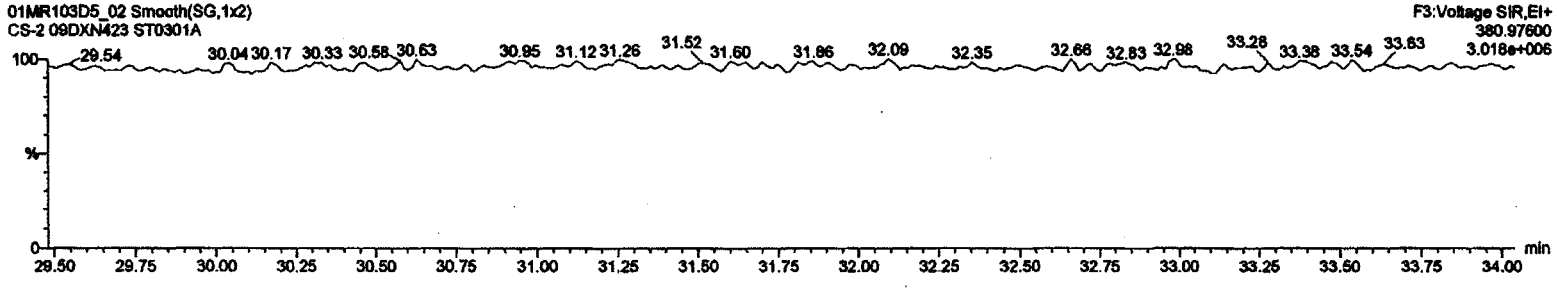
HxCDFs



HxCDF PCDPE



Function 3 PFK



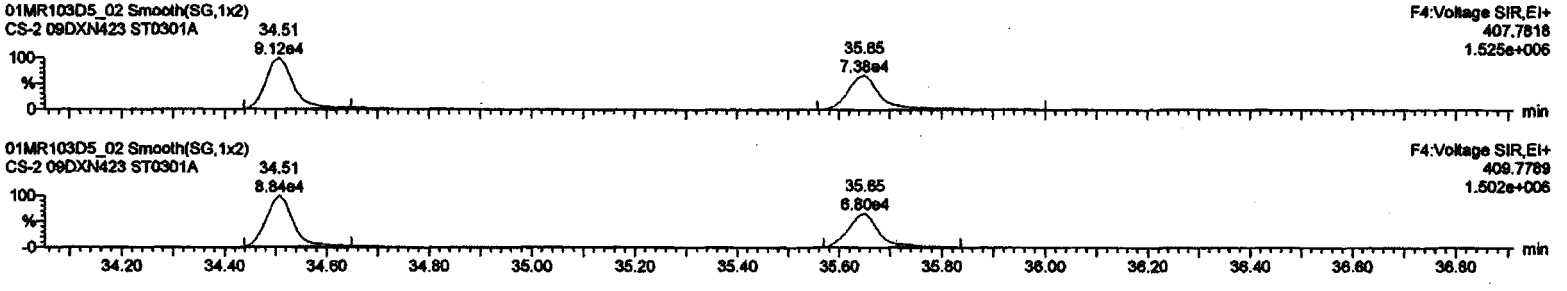
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

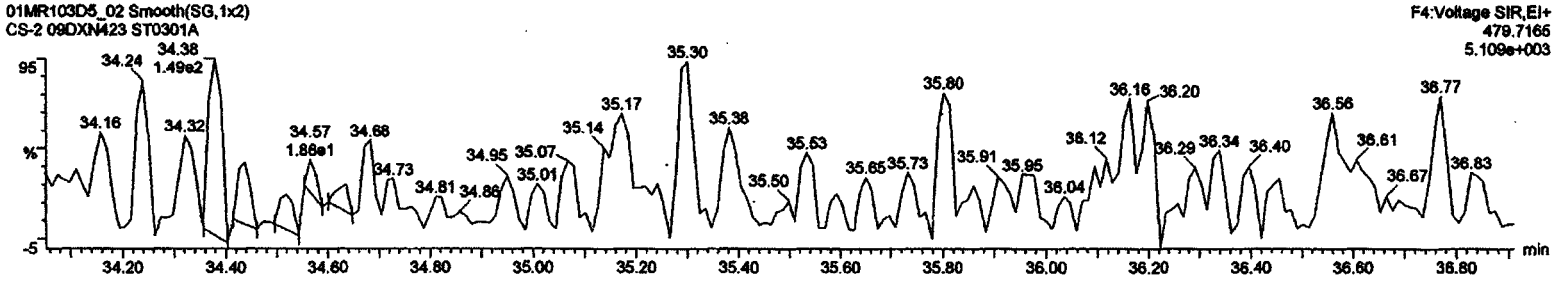
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

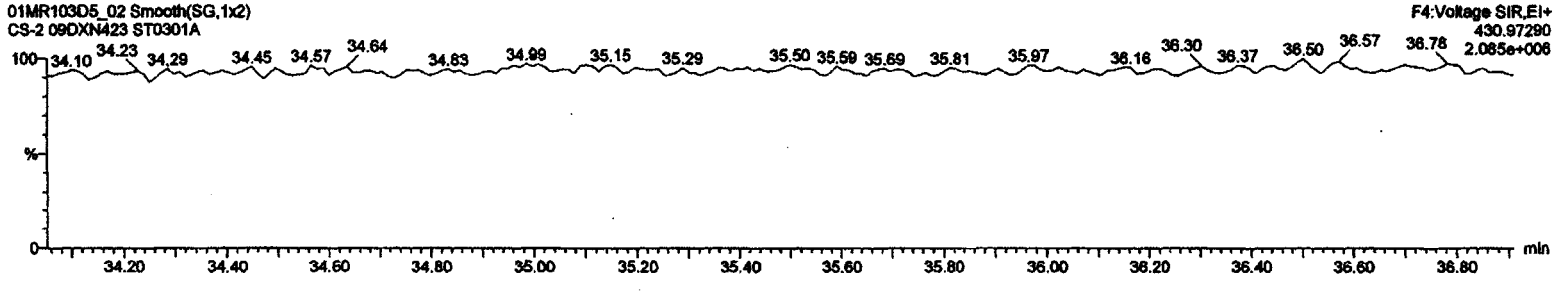
HpCDFs



HpCDF PCDPE



Function 4 PFK



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

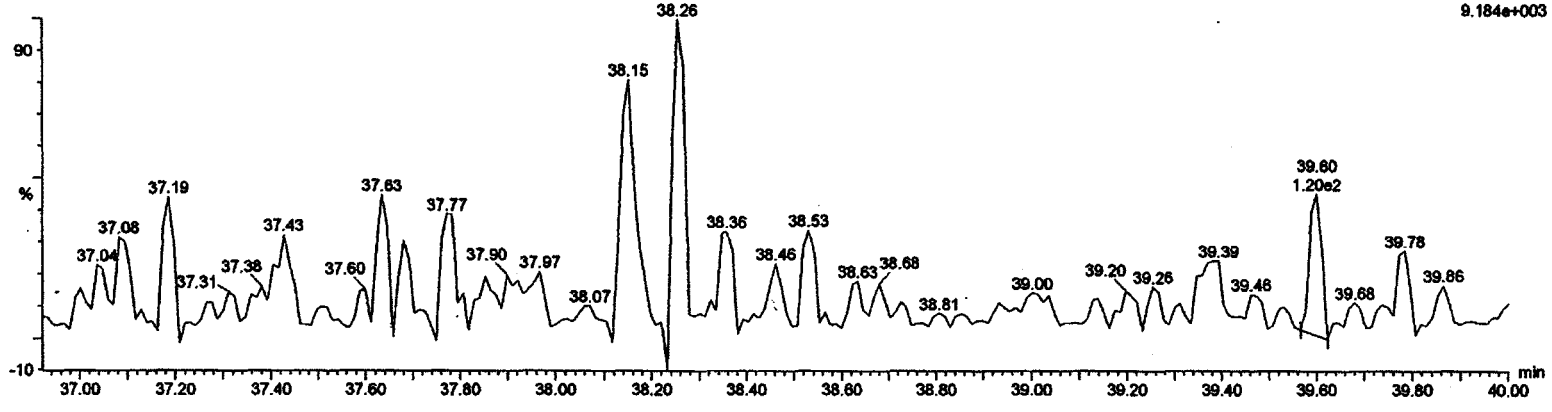
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

OCDF PCDPE

01MR103D5_02 Smooth(SG,1x2)
CS-2 09DXN423 ST0301A

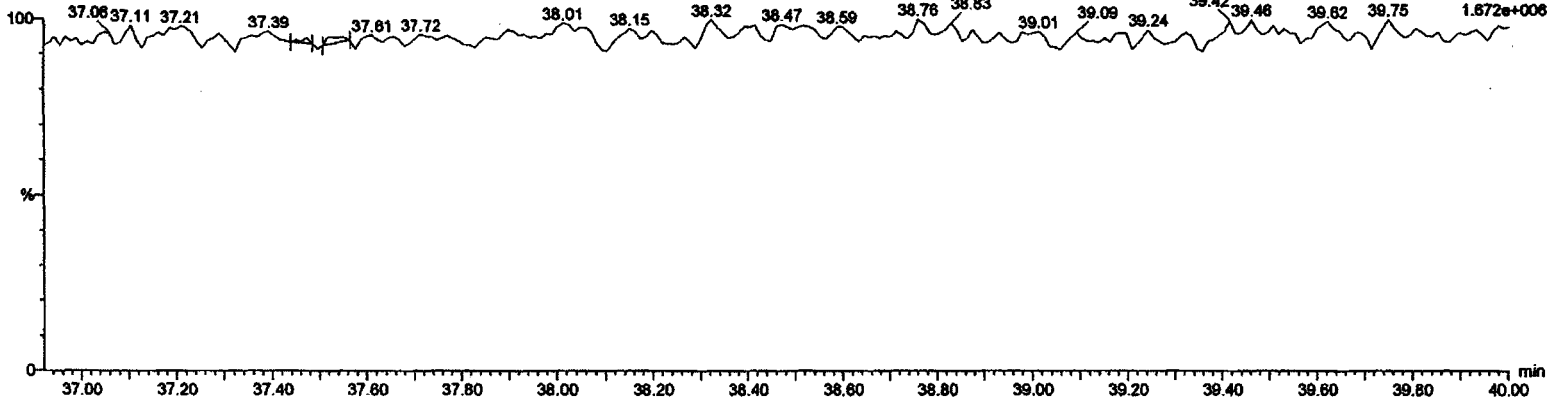
F5:Voltage SIR,EI+
513.67750
9.184e+003



Function 5 PFK

01MR103D5_02 Smooth(SG,1x2)
CS-2 09DXN423 ST0301A

F5:Voltage SIR,EI+
442.97280
1.672e+006



Quantify Sample Report **MassLynx 4.1**

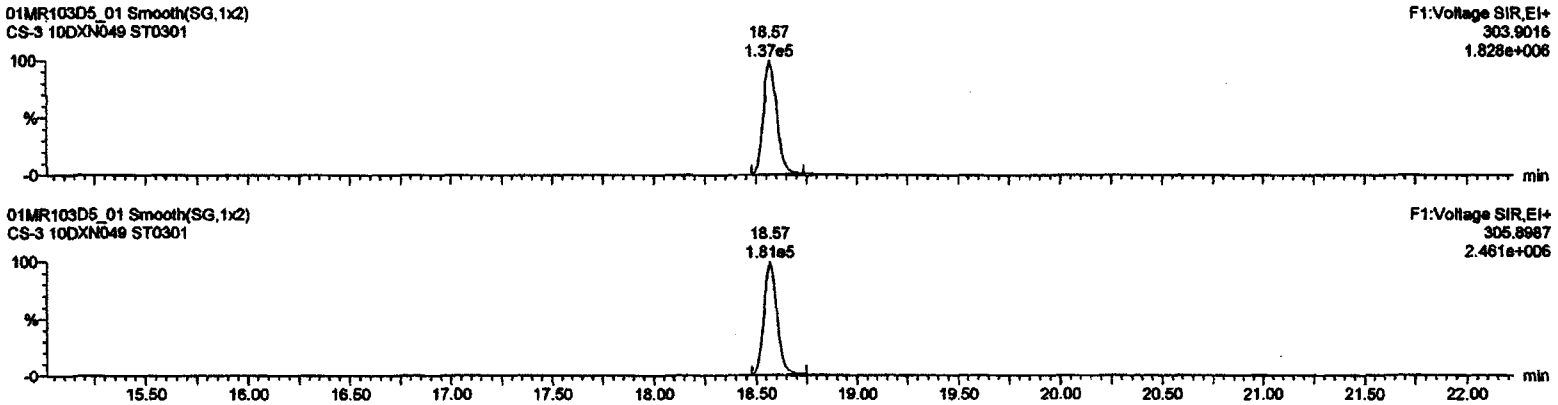
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

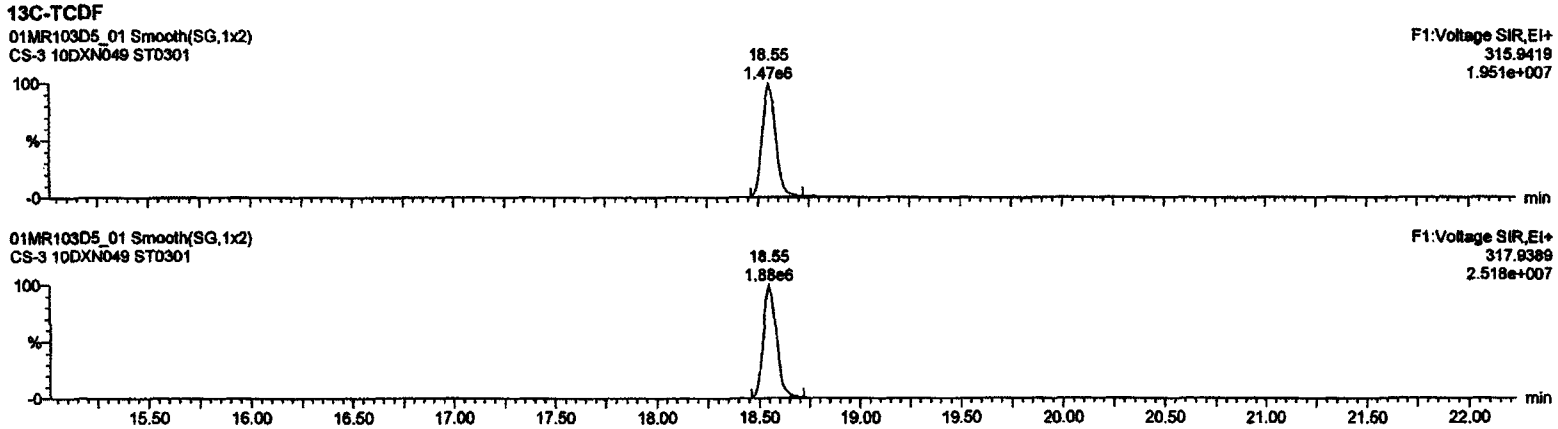
Method: C:\MassLynx\JAN2010.PRO\MethDB\16133D5.mdb 01 Mar 2010 14:17:18
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D51613.cdb 01 Mar 2010 14:19:06

Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

TCDFs



13C-TCDF



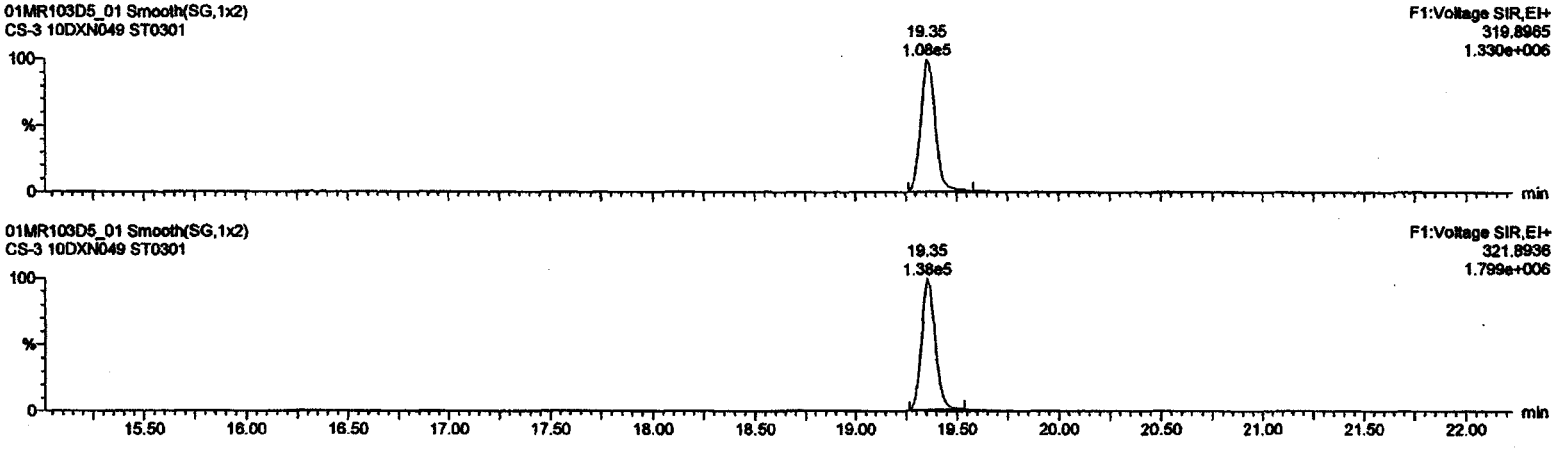
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

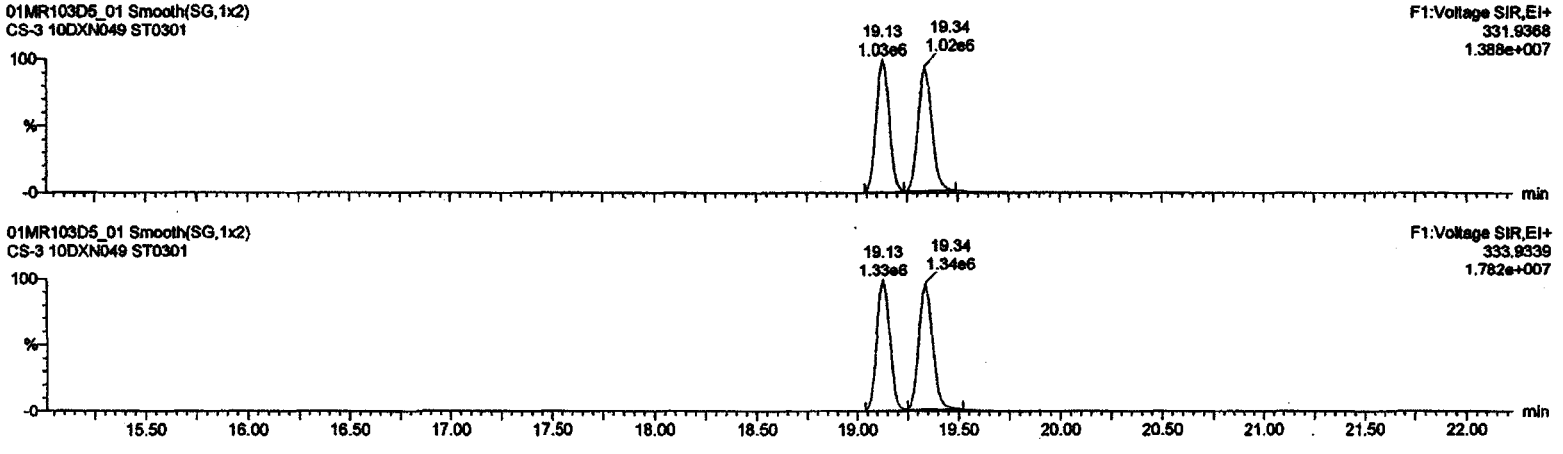
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

TCDDs



13C-TCDDs



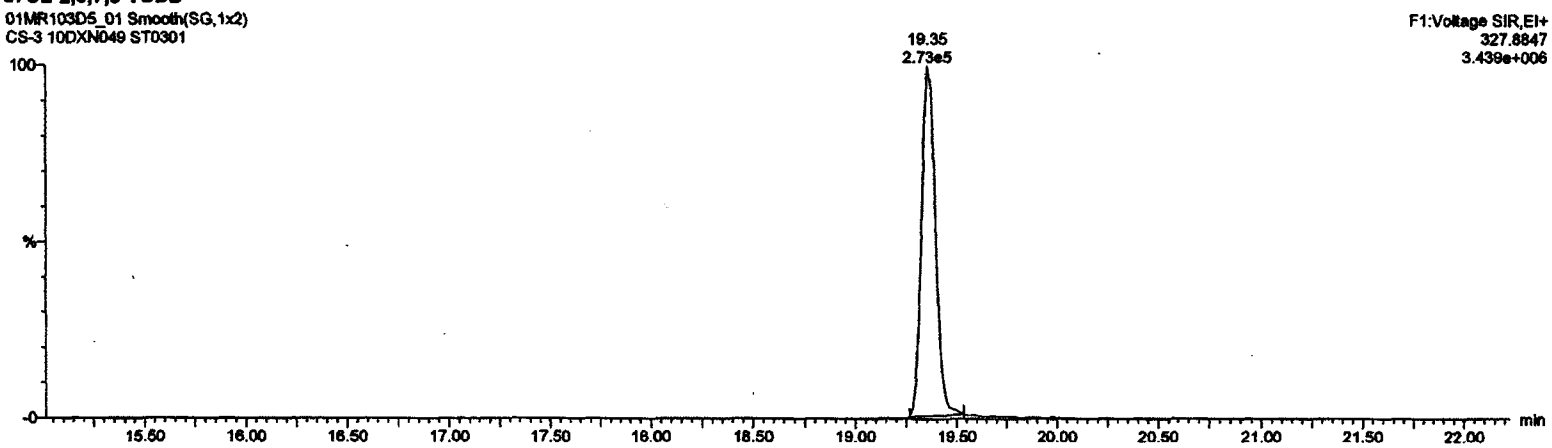
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

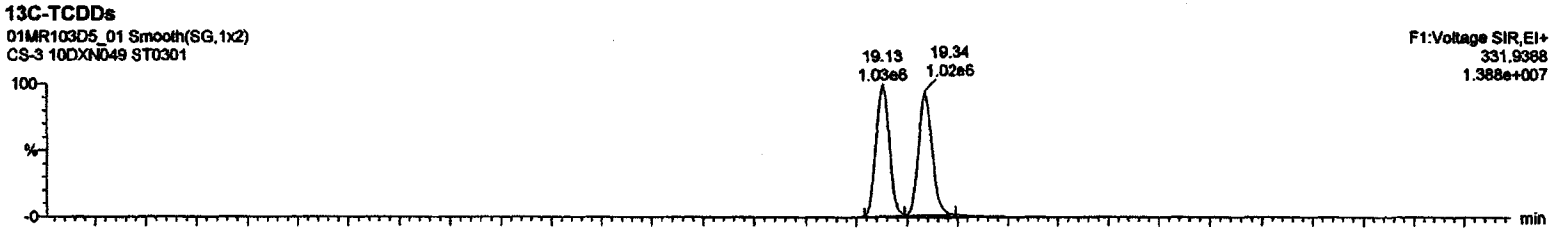
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

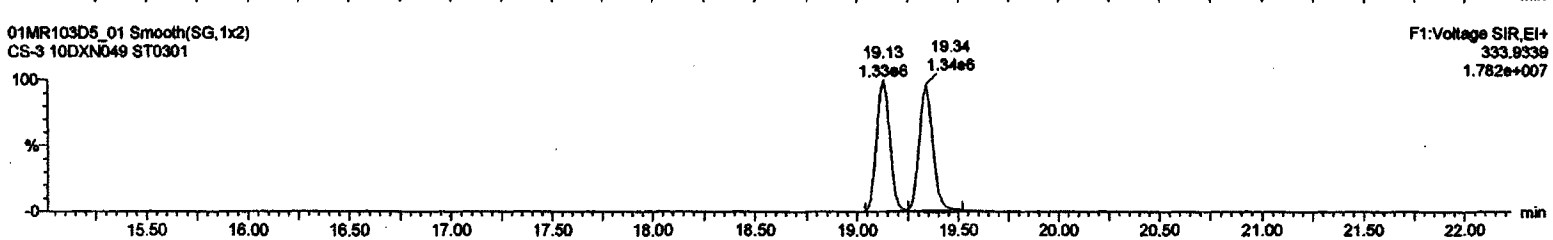
Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

37CL-2,3,7,8-TCDD



13C-TCDDs





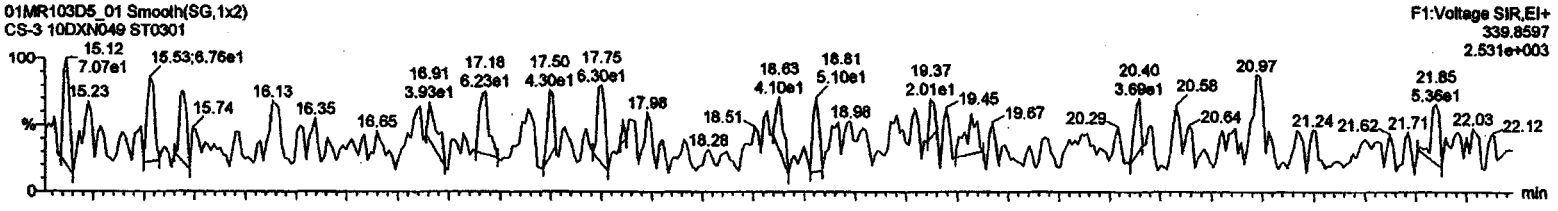
Quantify Sample Report **MassLynx 4.1**

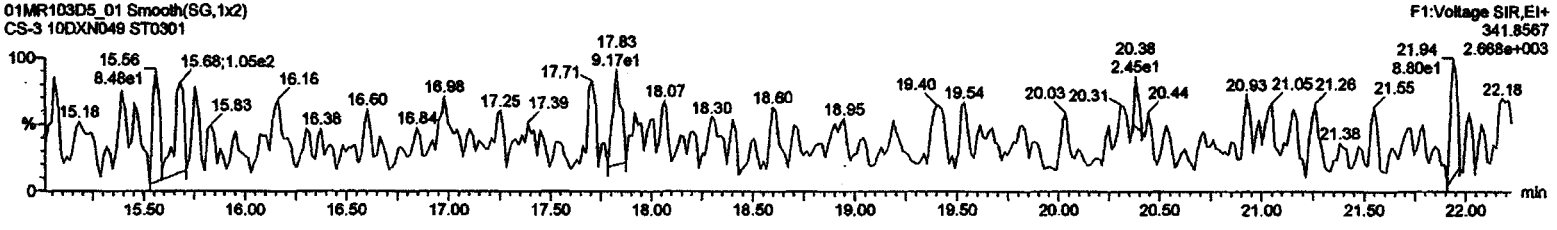
Dataset: C:\MassLynx\JAN2010.PRO\CA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

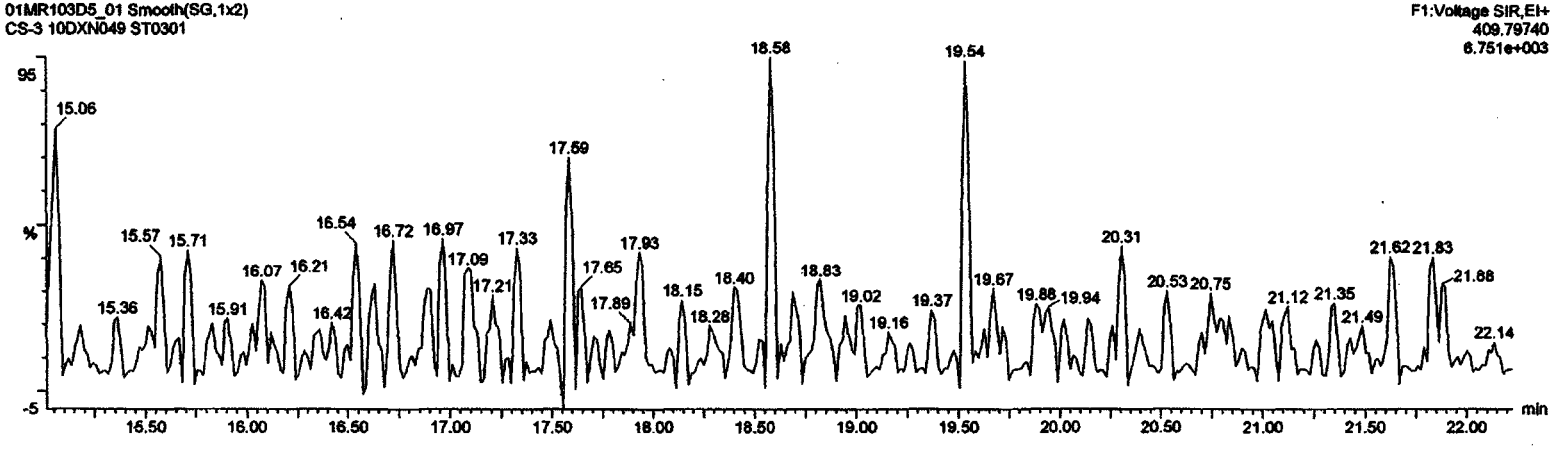
Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

F1 PeCDFs





F1 PeCDF PCDPE



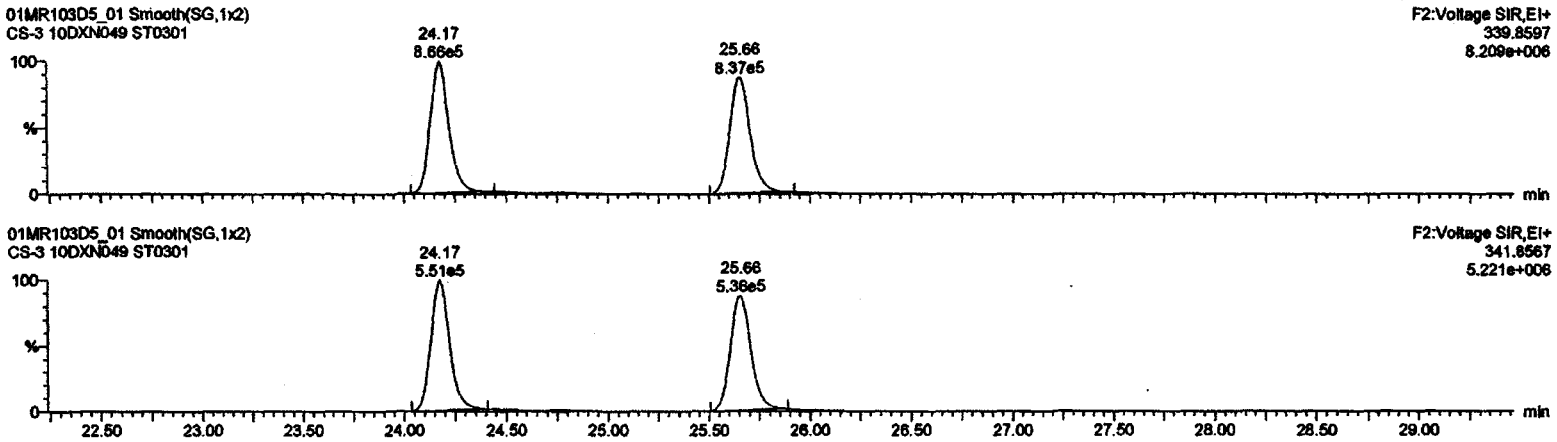
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

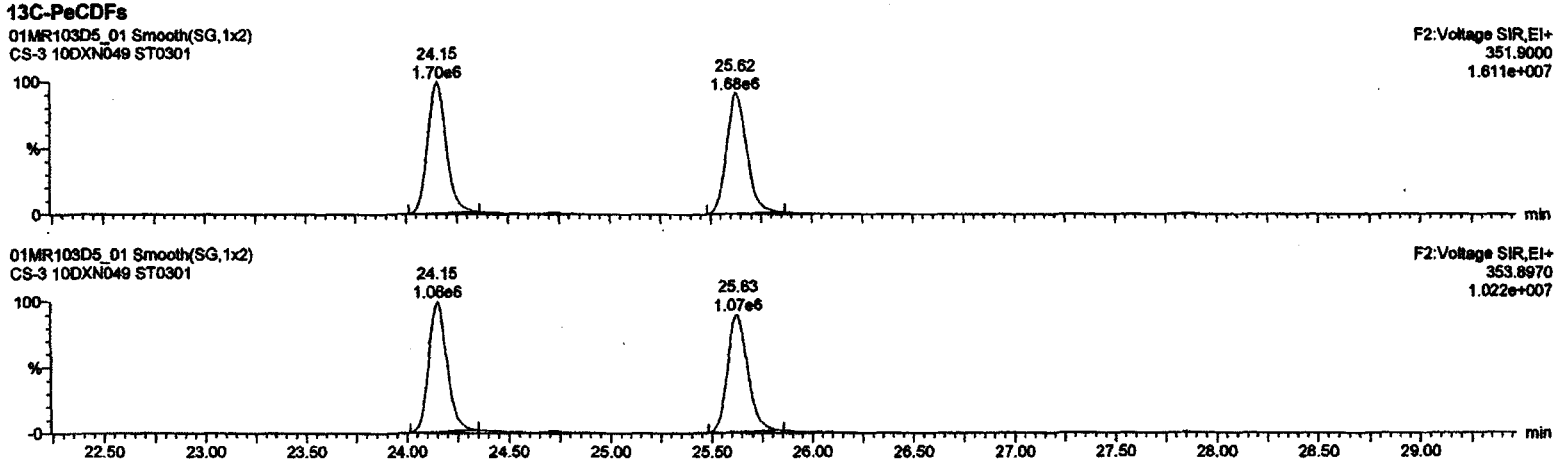
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

PeCDFs



13C-PeCDFs



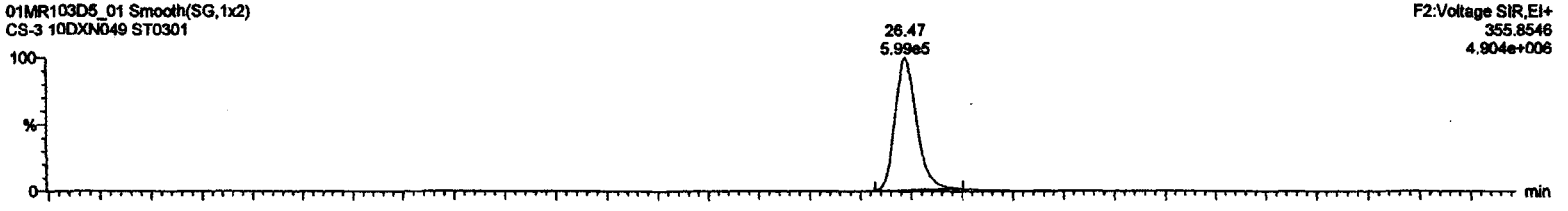
Quantify Sample Report **MassLynx 4.1**

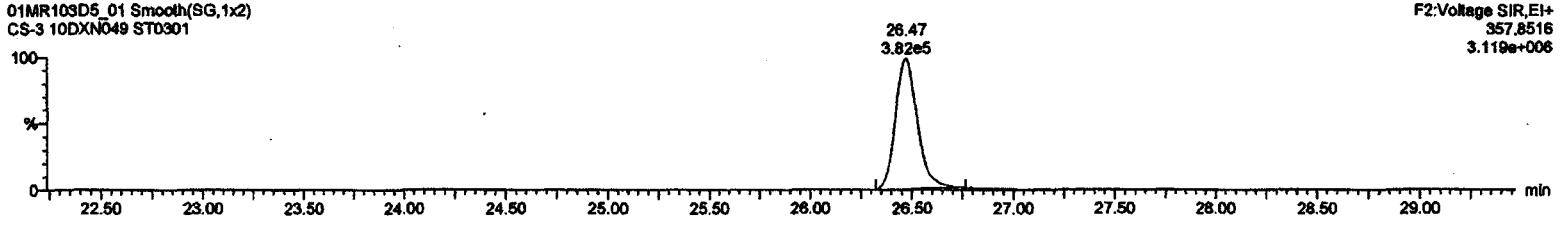
Dataset: C:\MassLynx\JAN2010.PRO\CA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_01,.Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

PeCDDs





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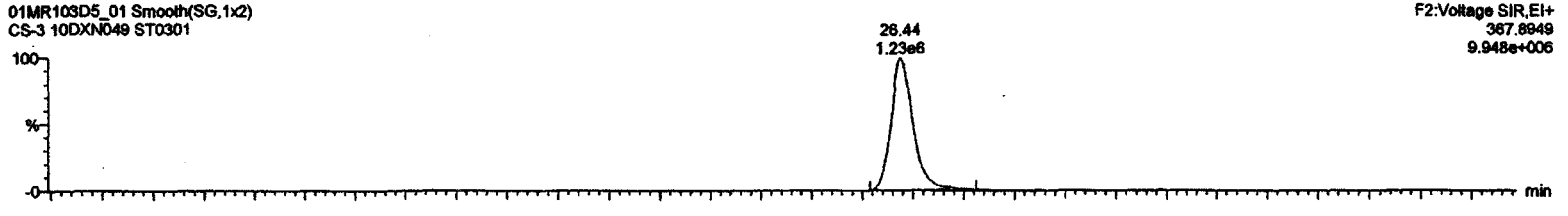
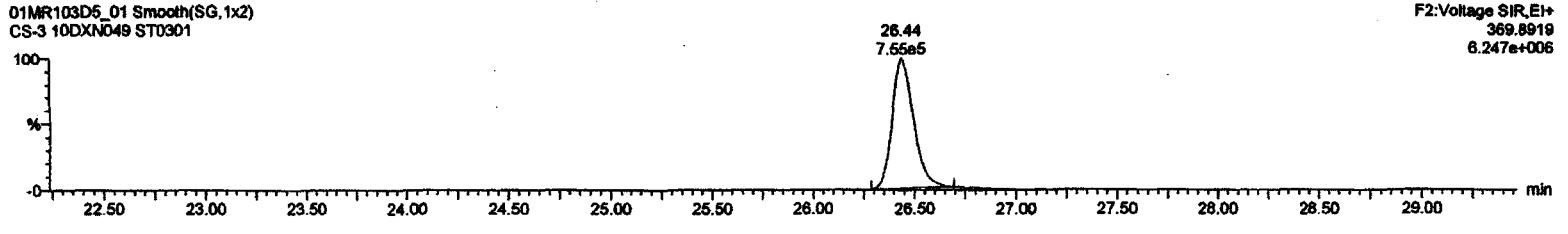




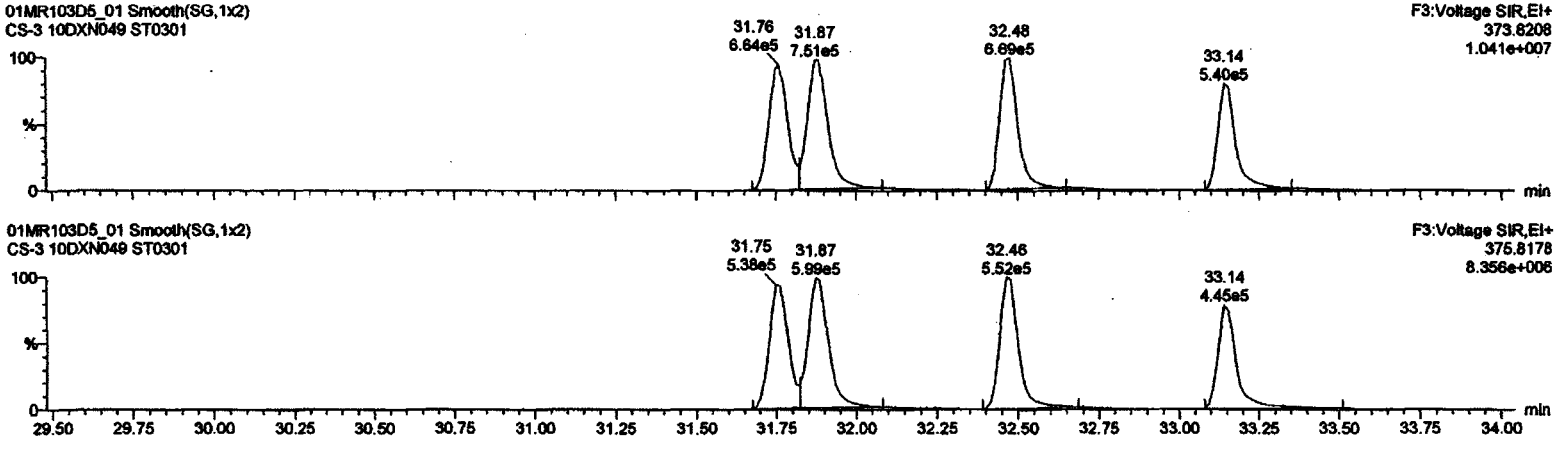
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

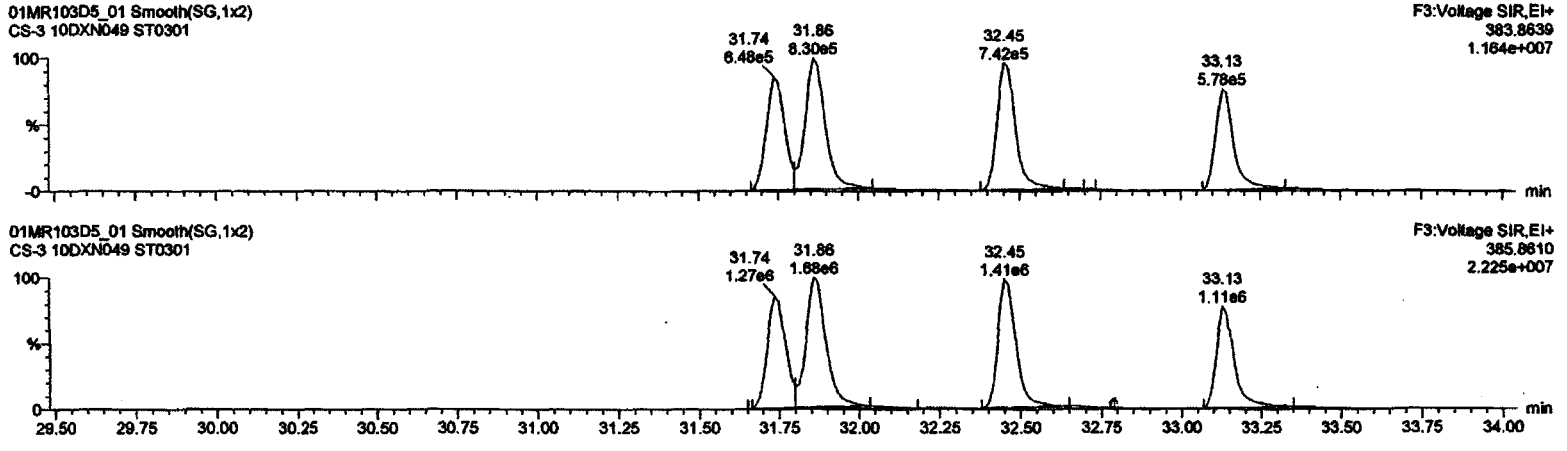
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

HxCDFs



13C-HxCDFs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
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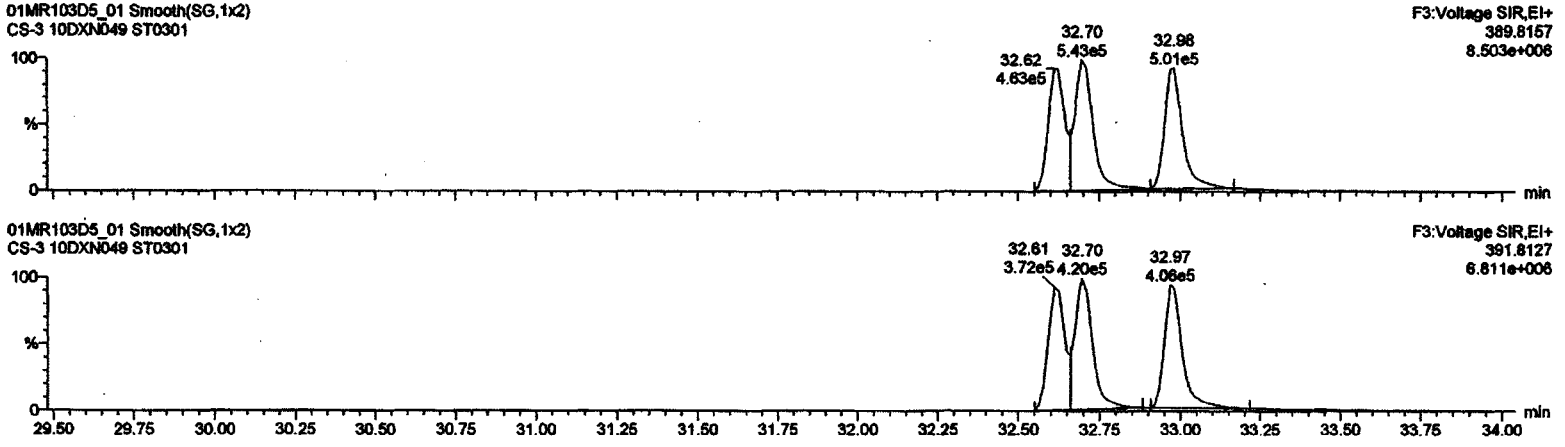
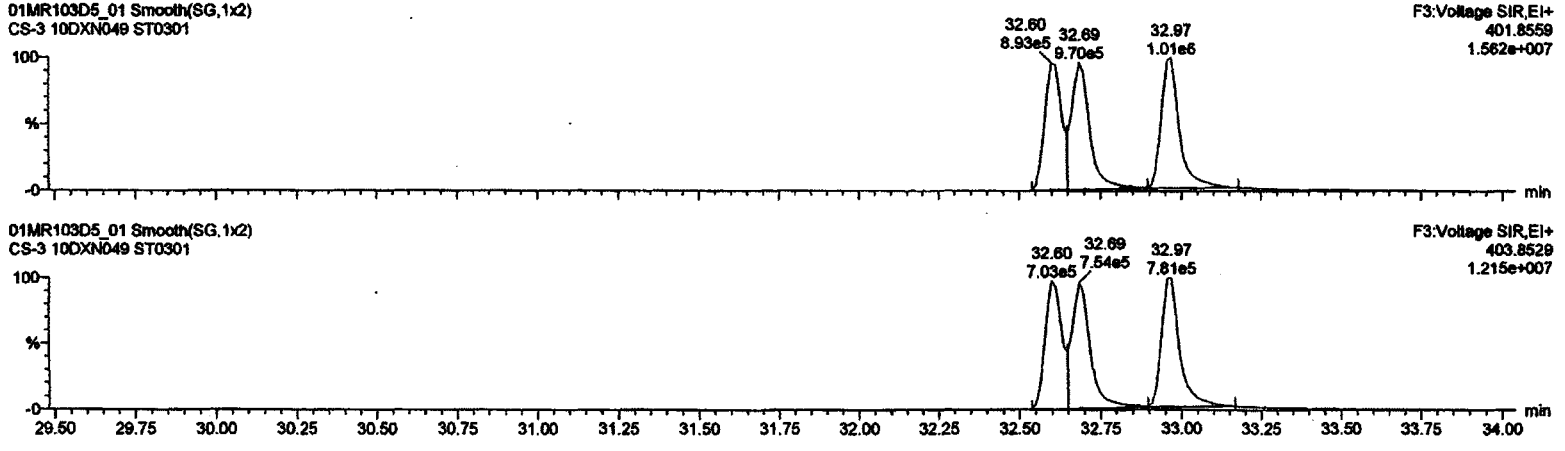
Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

HxCDDs



13C-HxCDDs



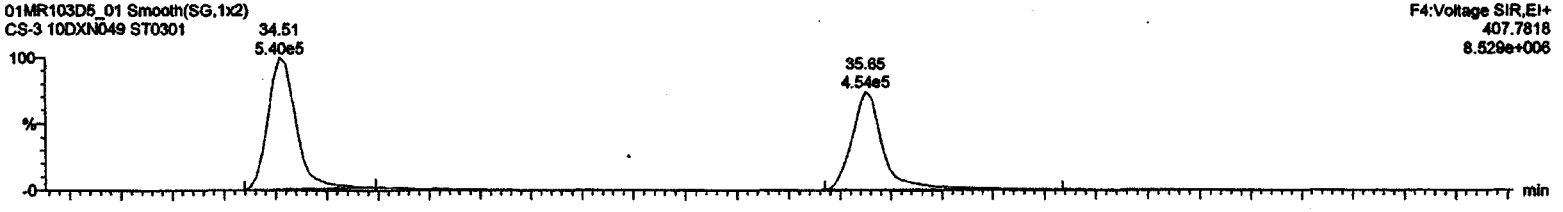
Quantify Sample Report **MassLynx 4.1**

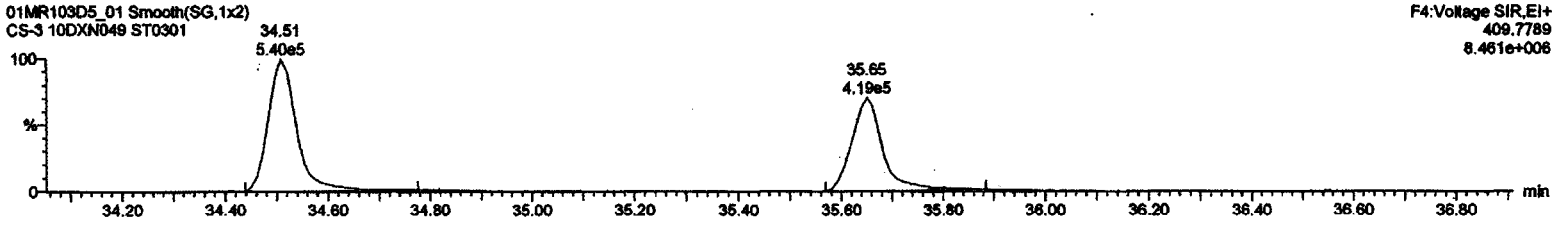
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

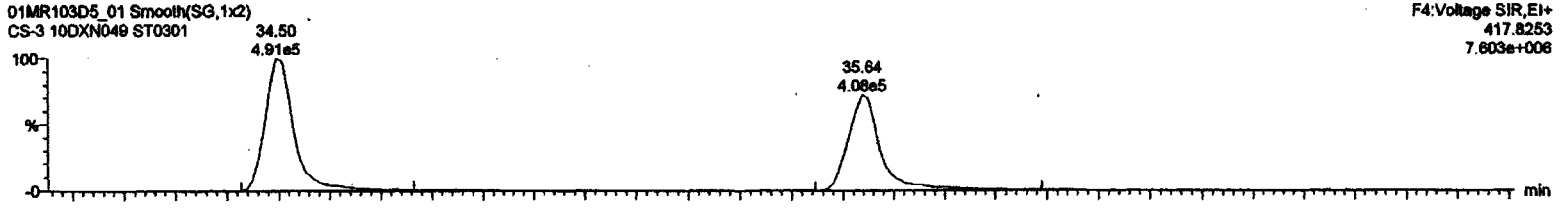
Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

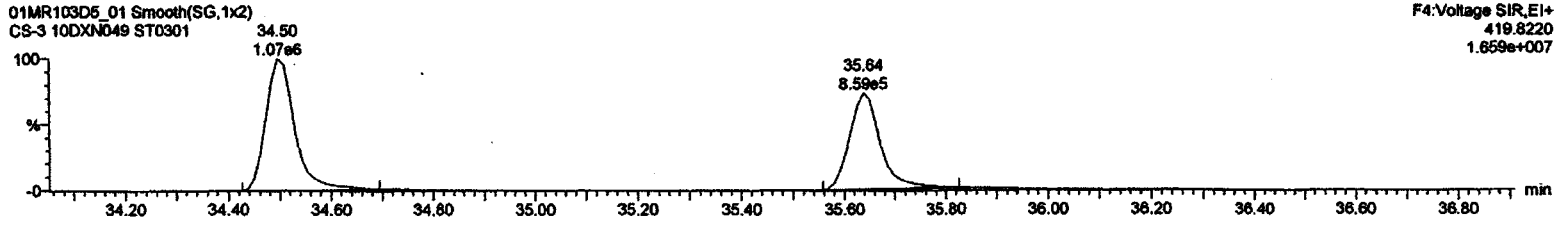
HpCDFs





13C-HpCDFs





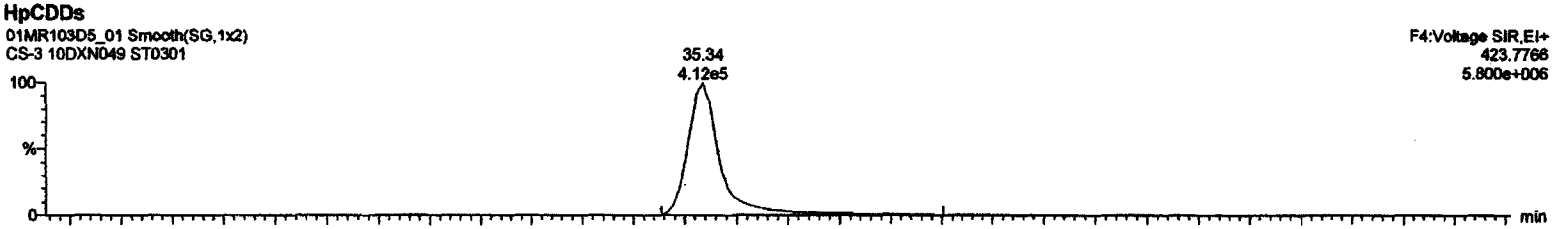
Quantify Sample Report **MassLynx 4.1**

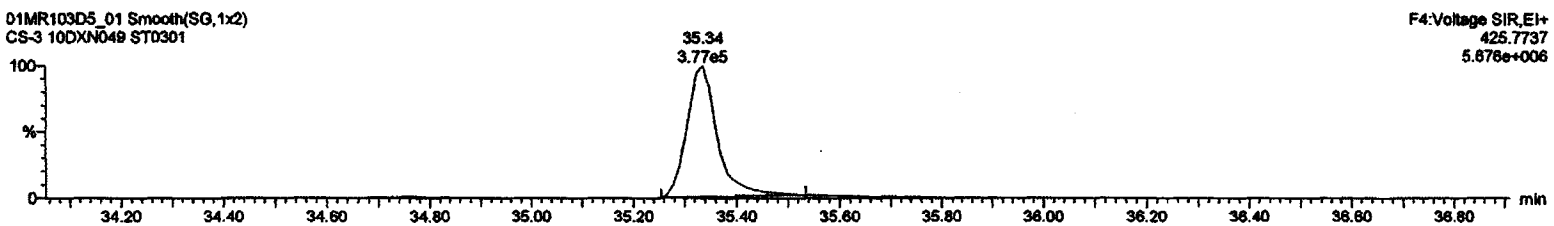
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

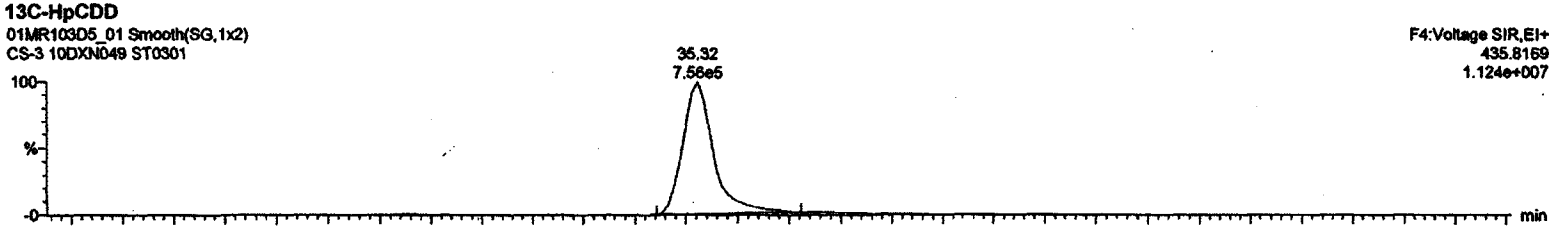
Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

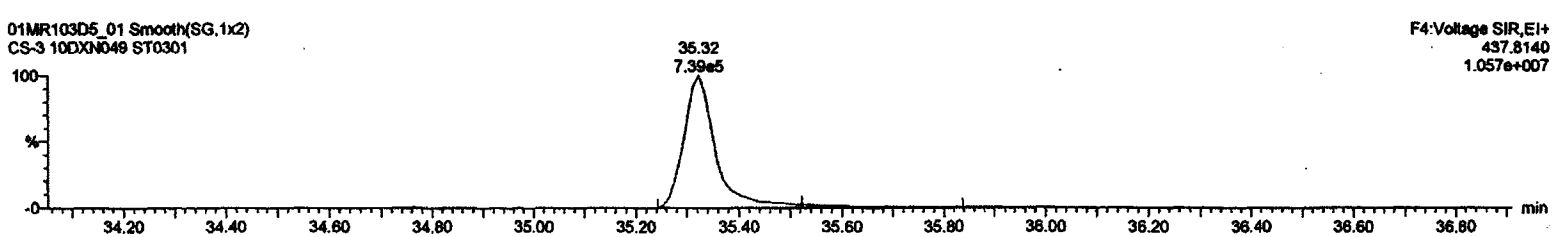
HpCDDs





13C-HpCDD





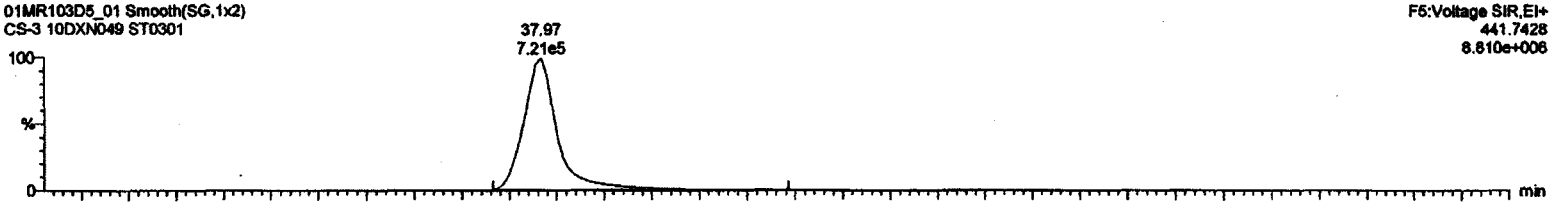
Quantify Sample Report **MassLynx 4.1**

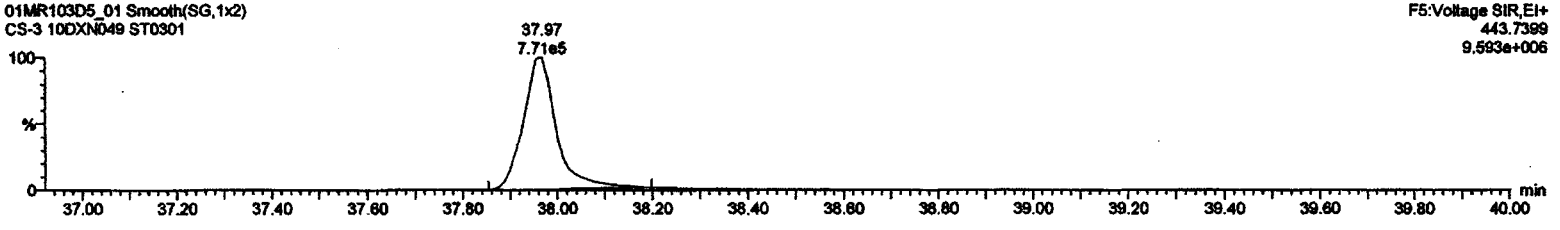
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

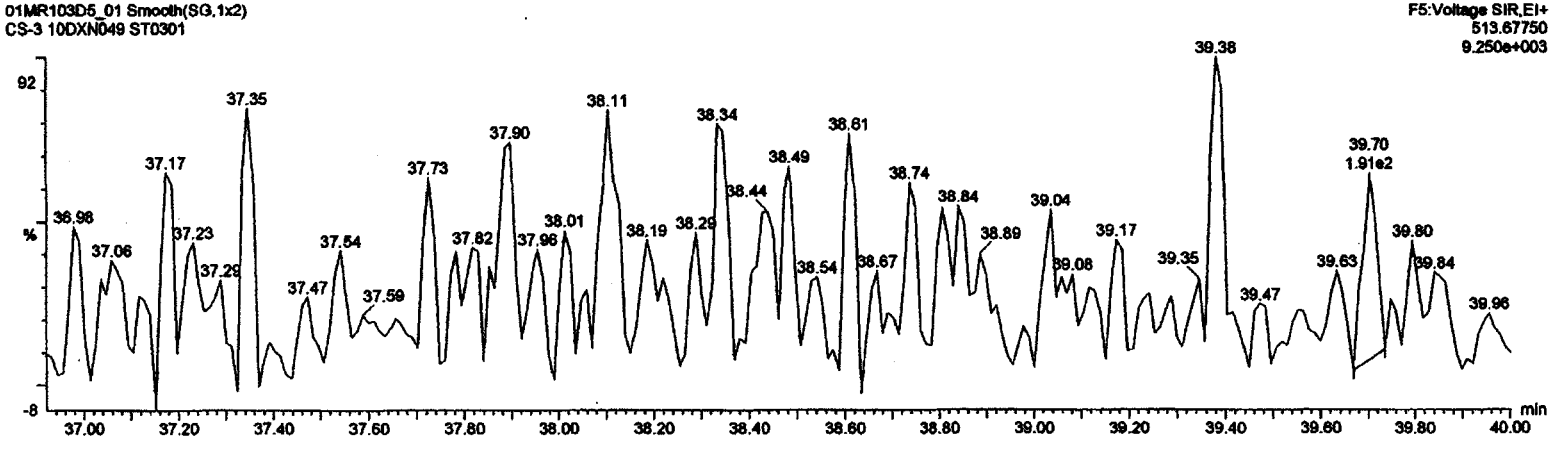
Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

OCDFs





OCDF PCDPE



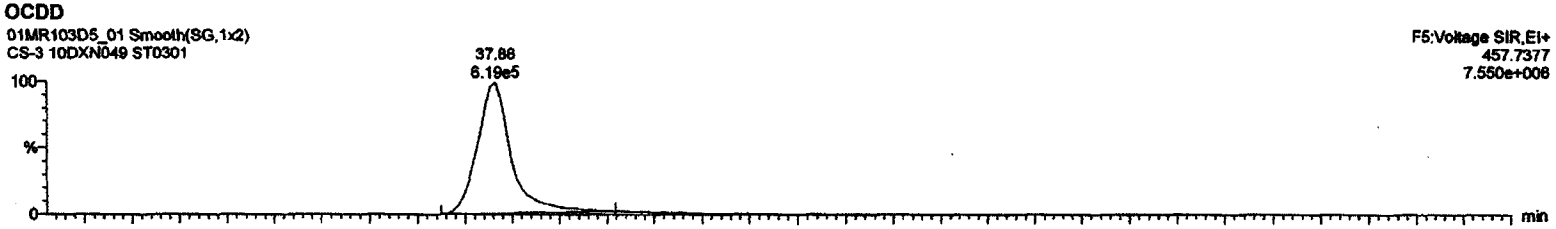
Quantify Sample Report **MassLynx 4.1**

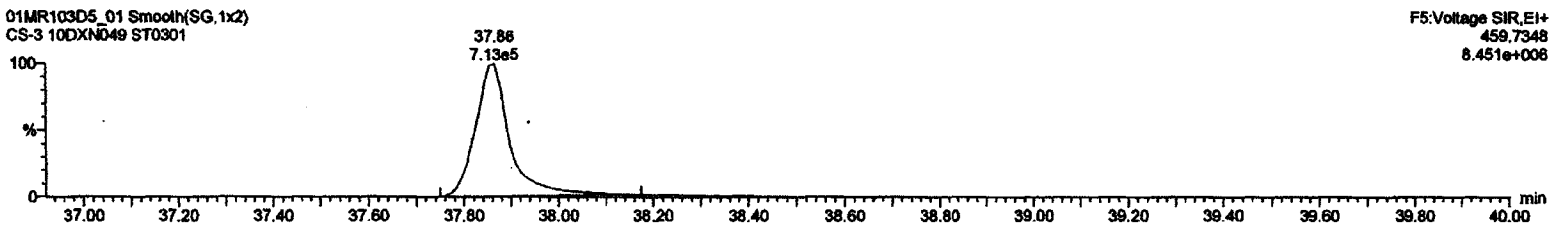
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

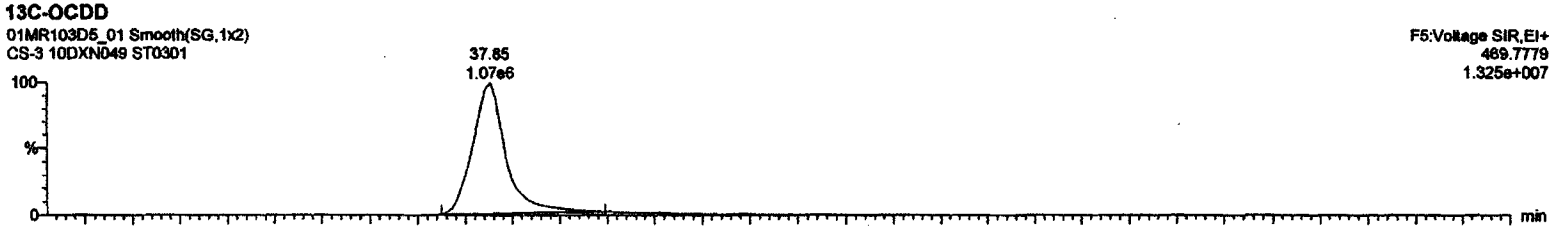
Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

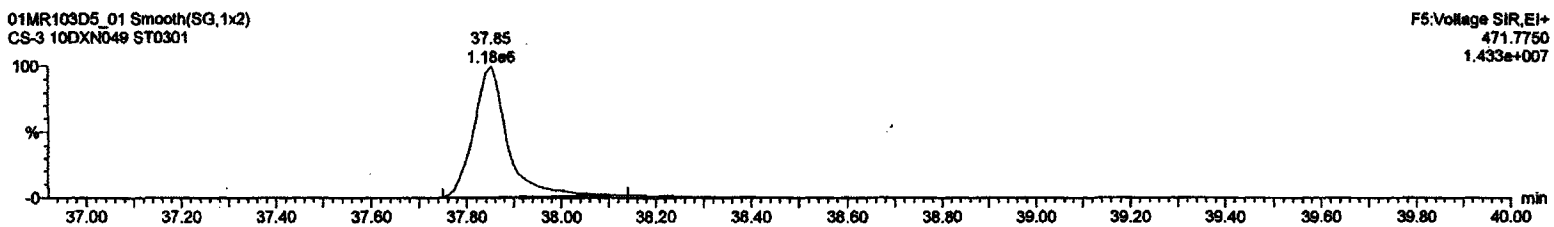
OCDD





13C-OCDD





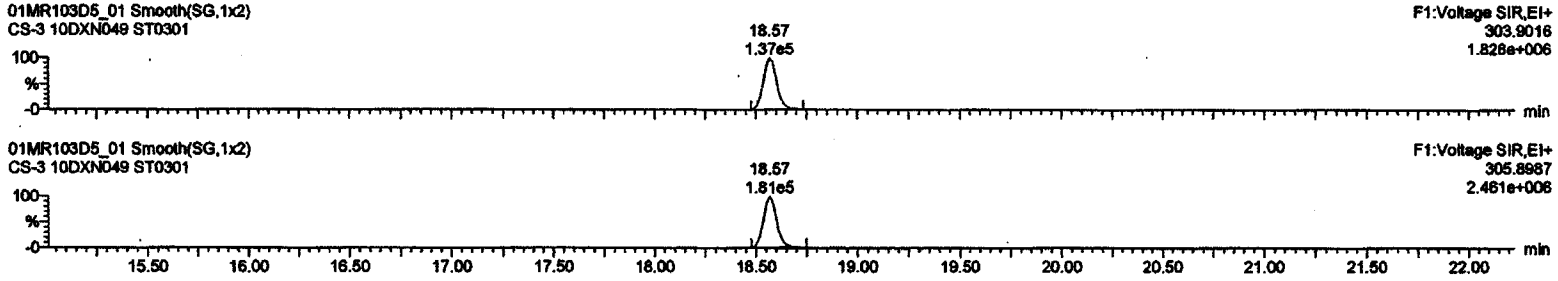
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

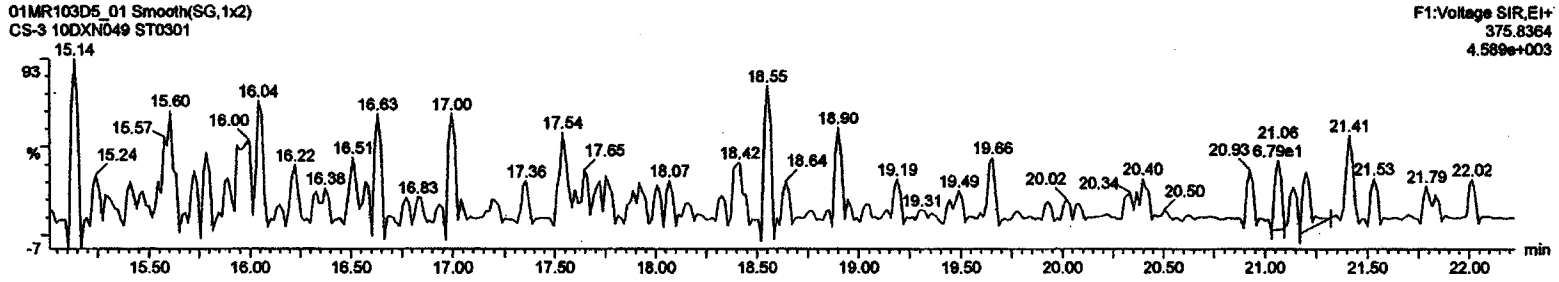
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

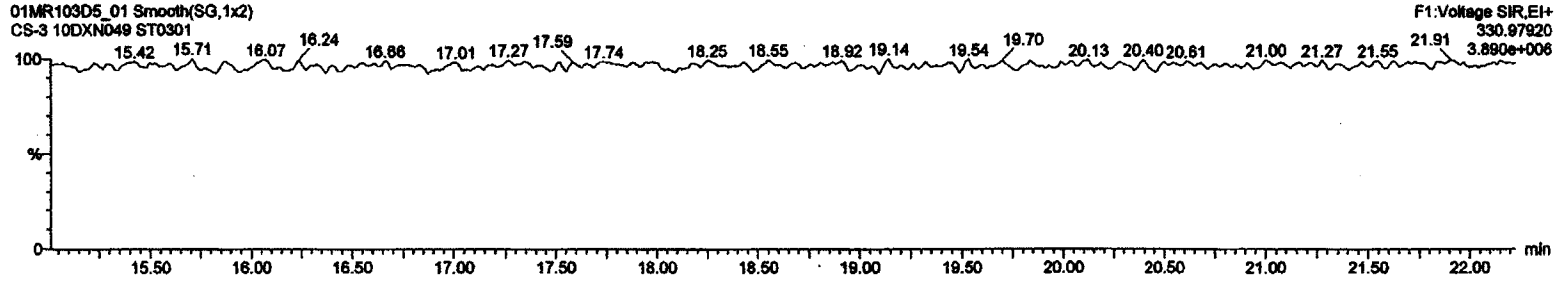
TCDFs



TCDF PCDPE



Function 1 PFK



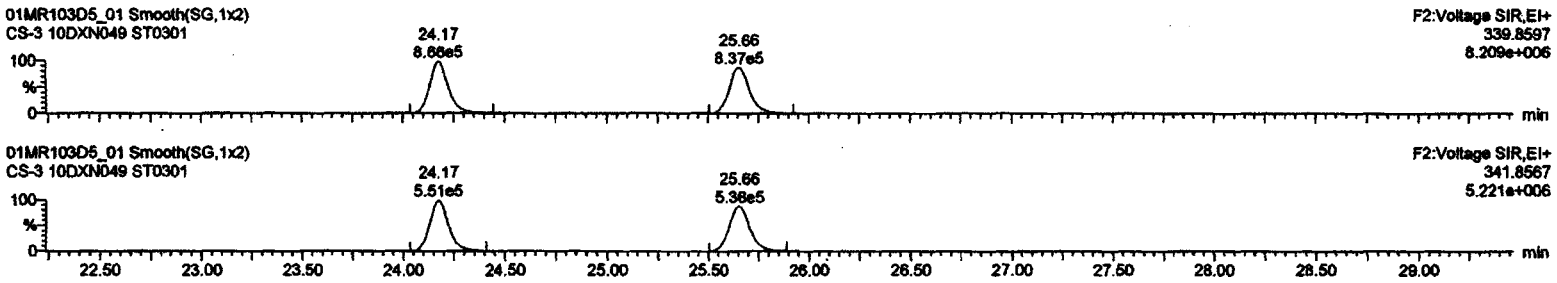
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

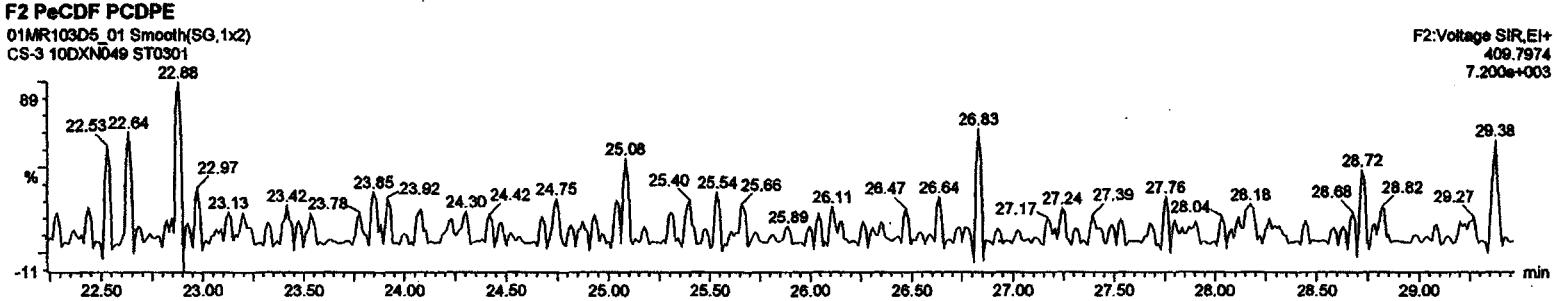
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

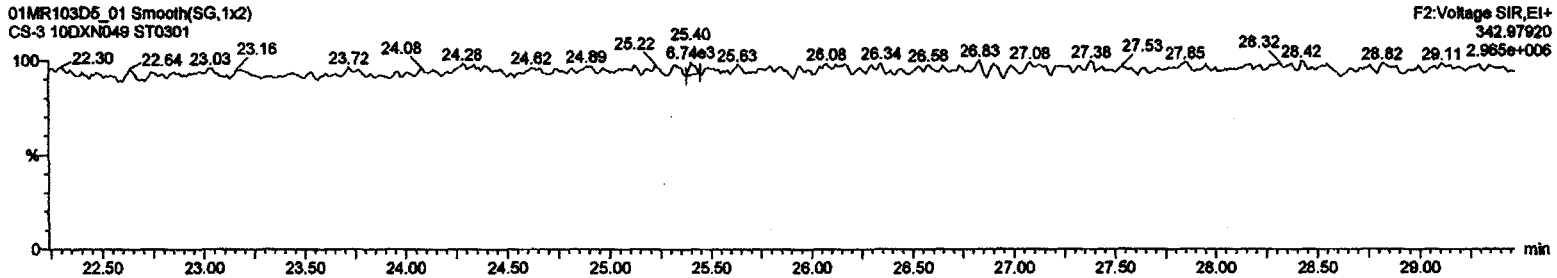
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



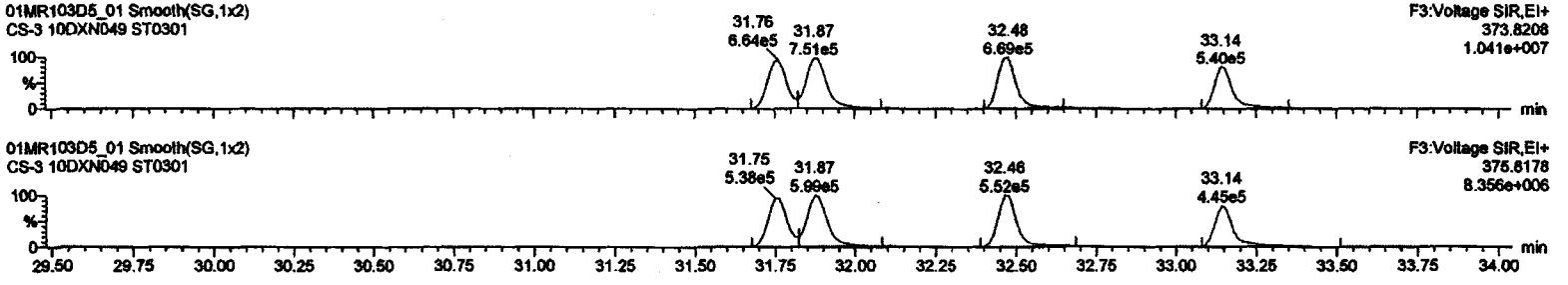
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

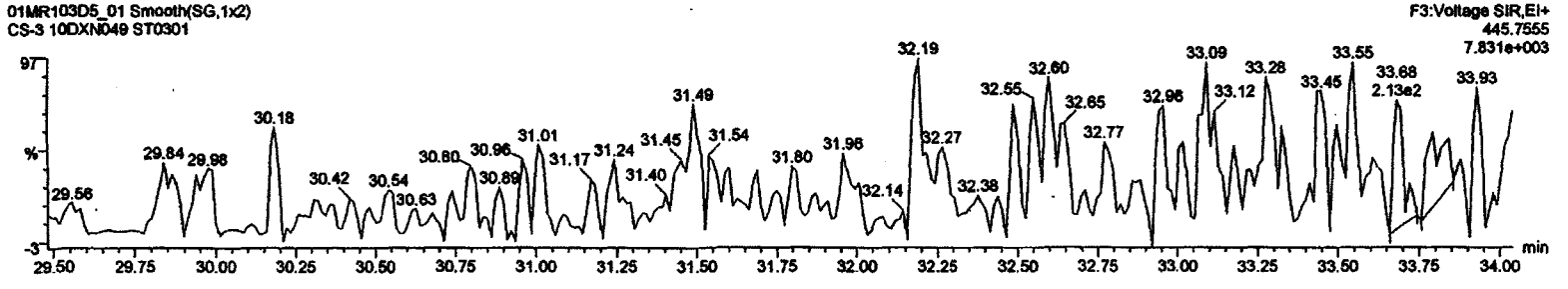
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

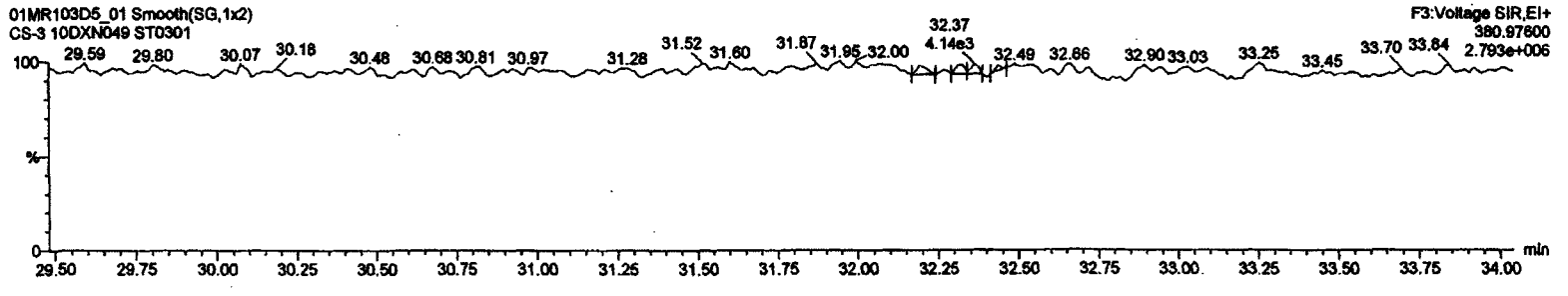
HxCDFs



HxCDF PCDPE



Function 3 PFK



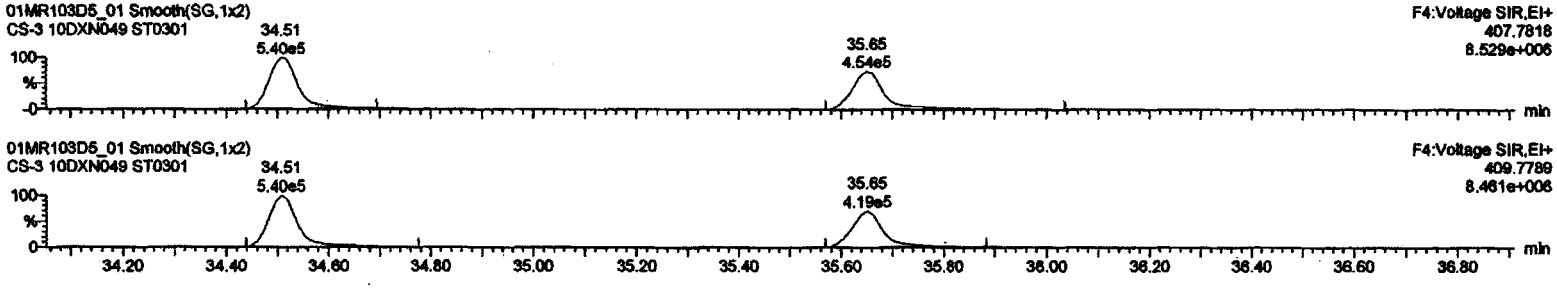
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

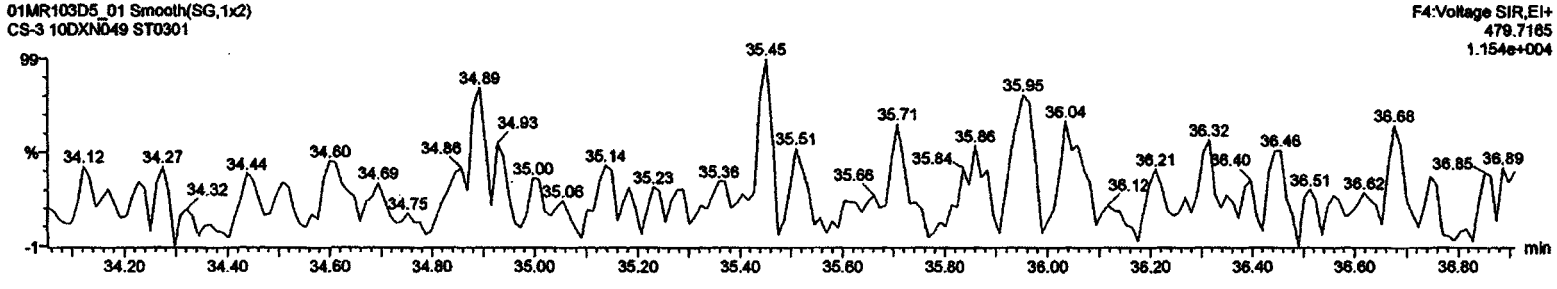
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

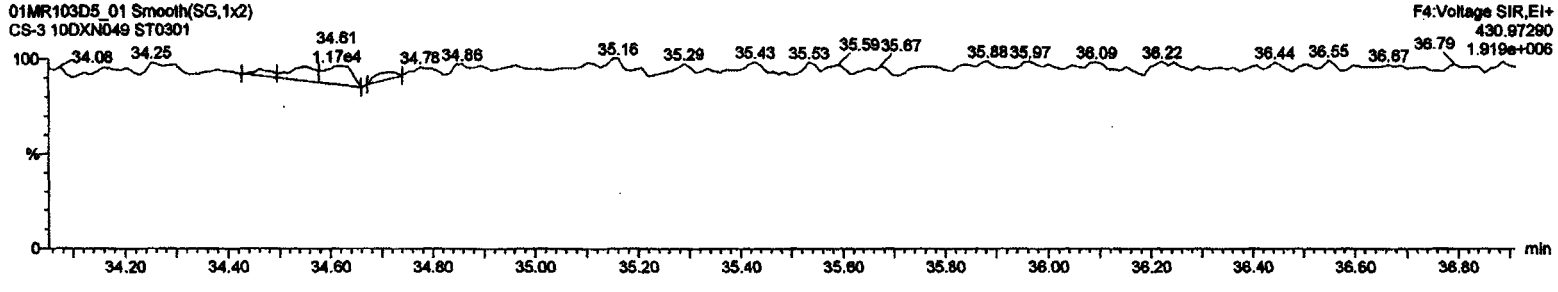
HpCDFs



HpCDF PCDPE



Function 4 PFK



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\CA030120103D51613.qld

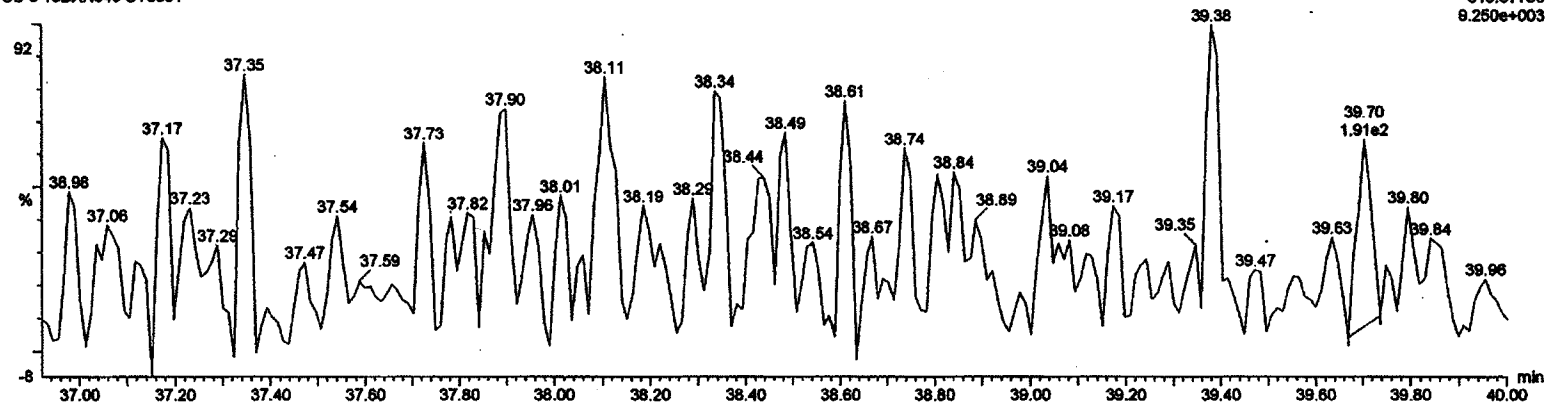
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

OCDF PCDPE

01MR103D5_01 Smooth(SG,1x2)
CS-3 10DXN049 ST0301

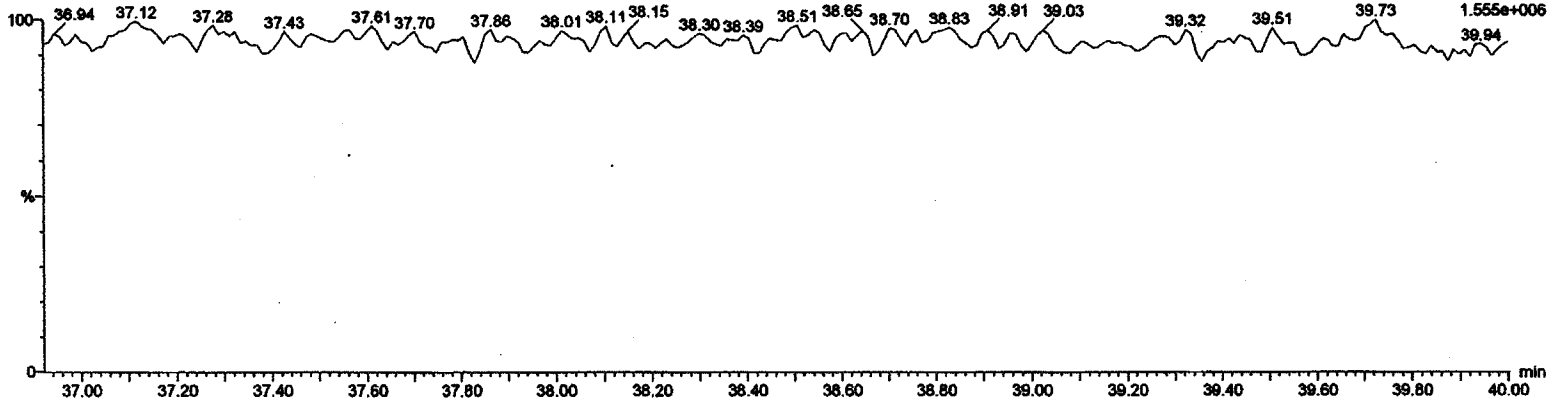
F5:Voltage SIR,EI+
513.67750
9.250e+003



Function 5 PFK

01MR103D5_01 Smooth(SG,1x2)
CS-3 10DXN049 ST0301

F5:Voltage SIR,EI+
442.97280
1.555e+006



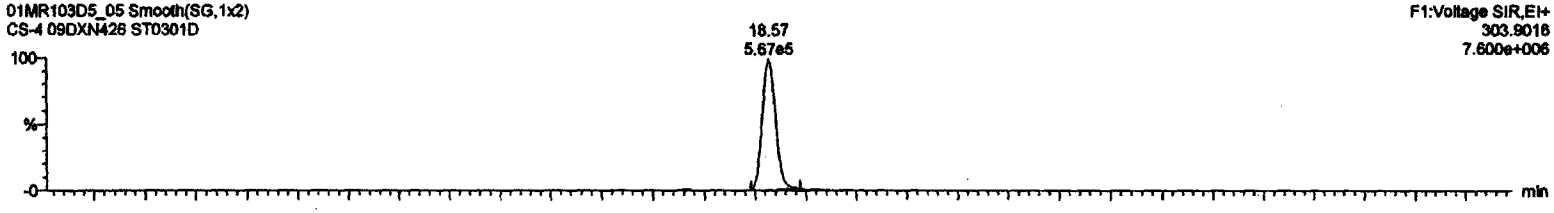
Quantify Sample Report **MassLynx 4.1**

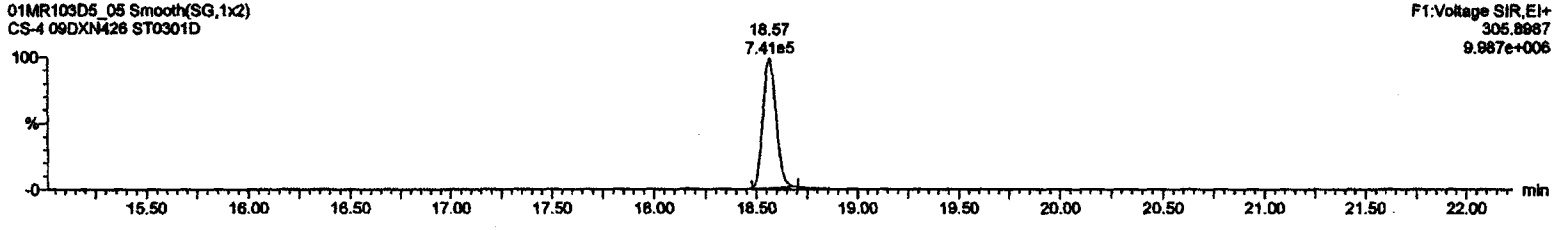
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

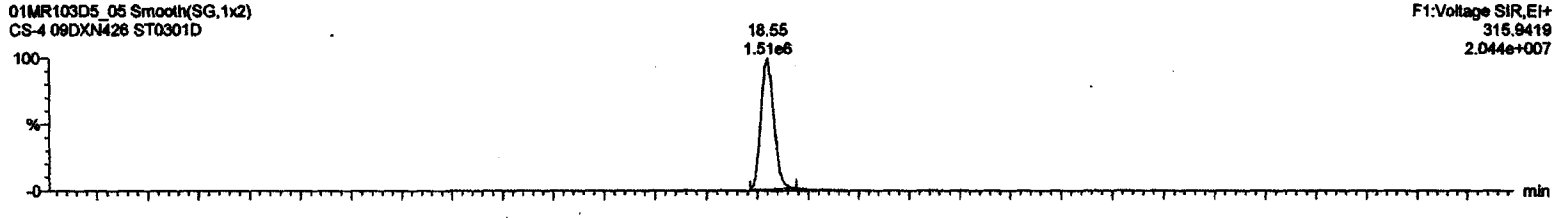
Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

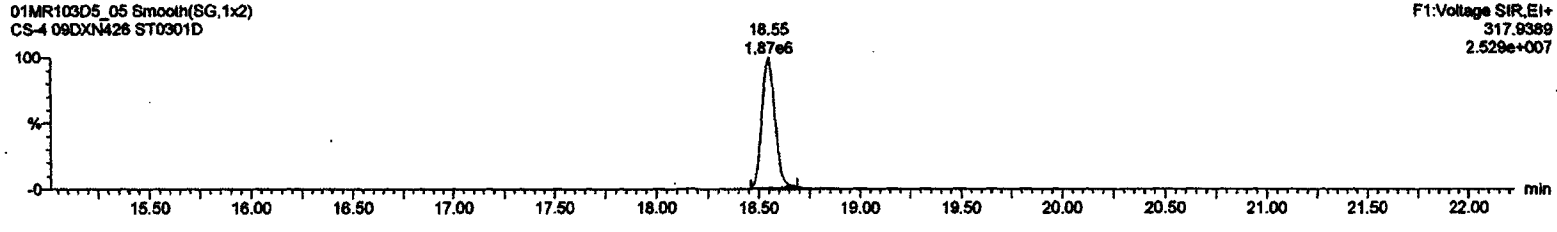
TCDFs





13C-TCDF





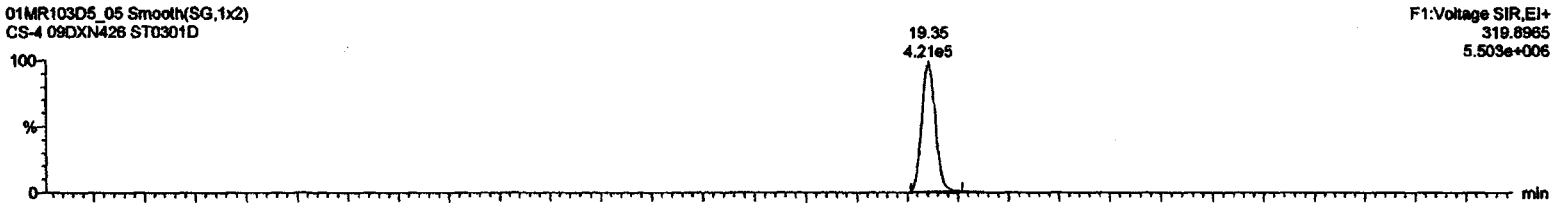
Quantify Sample Report **MassLynx 4.1**

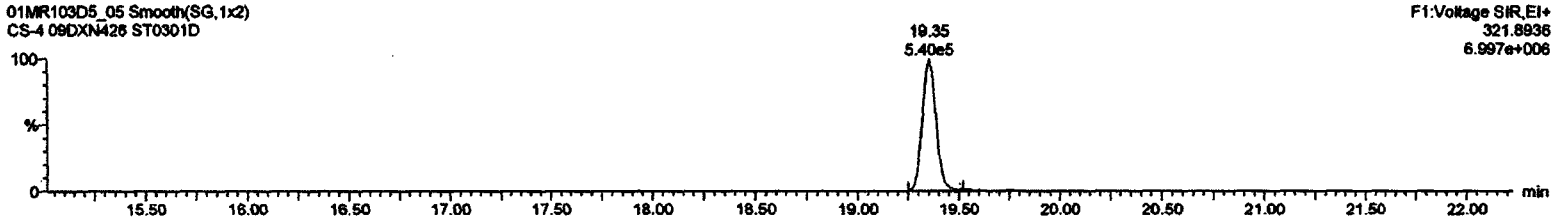
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

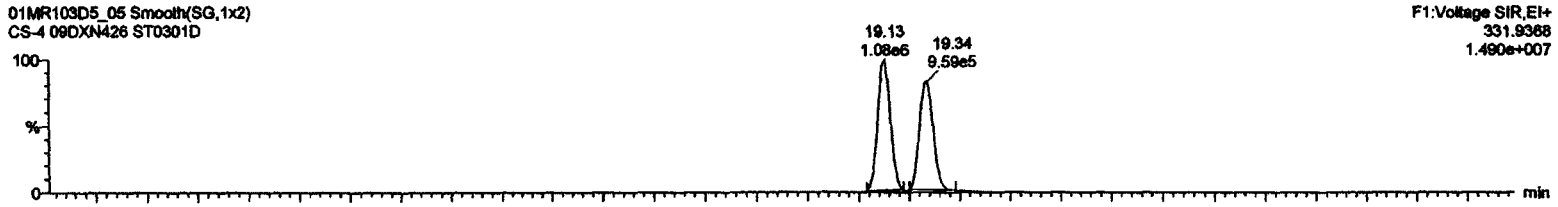
Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

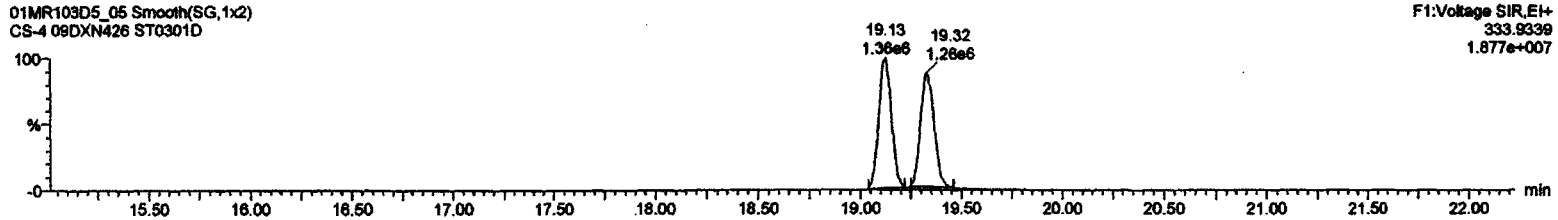
TCDDs





13C-TCDDs





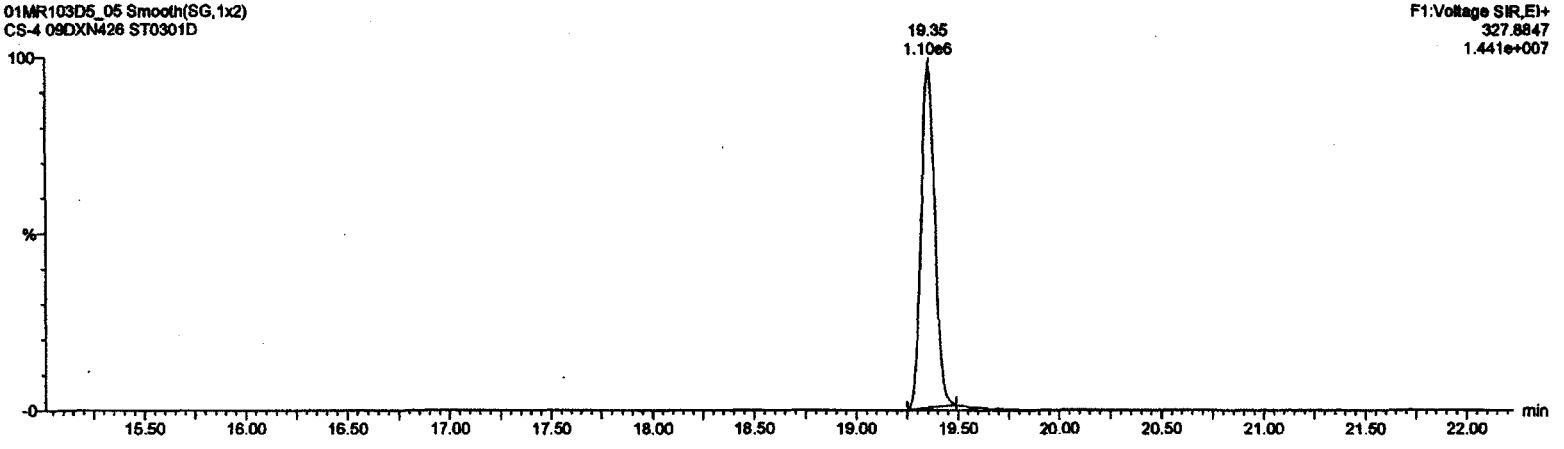
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

37CL-2,3,7,8-TCDD



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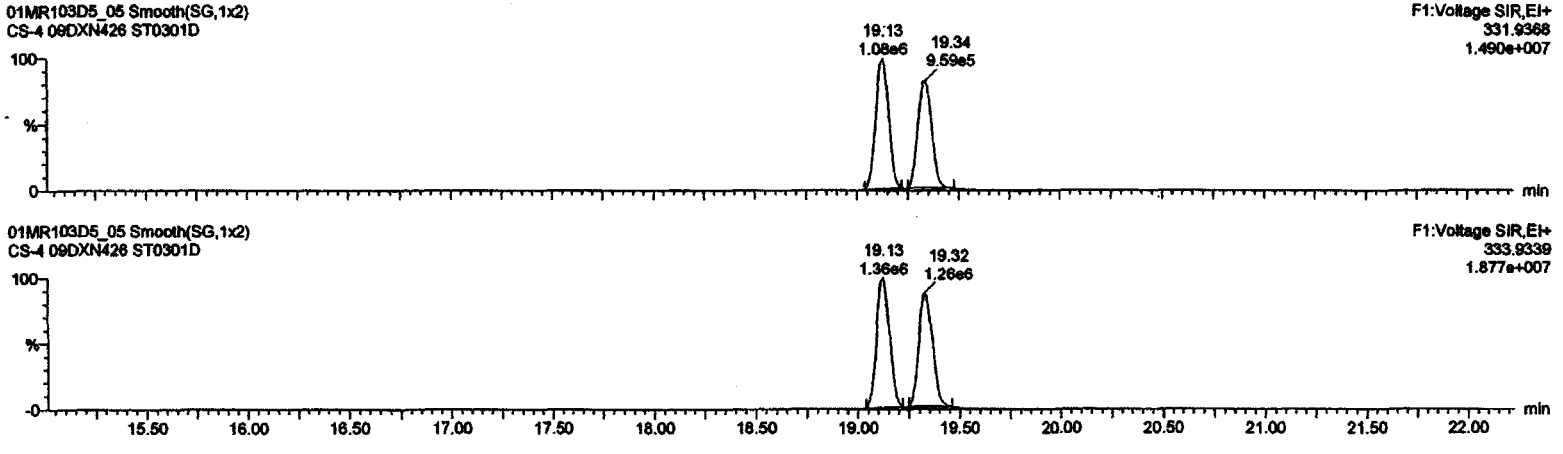


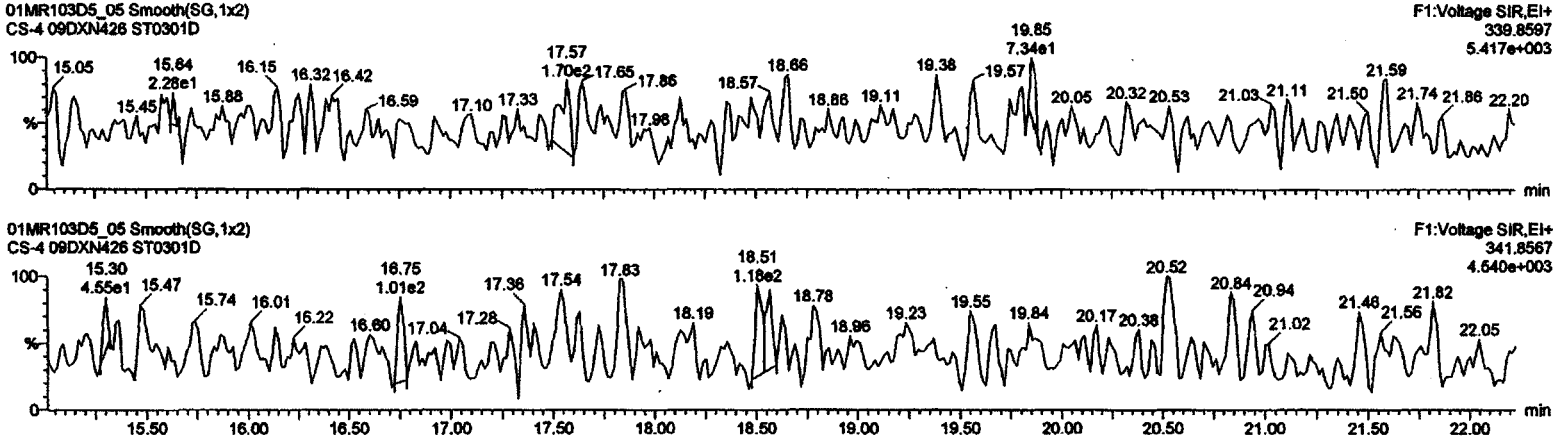
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

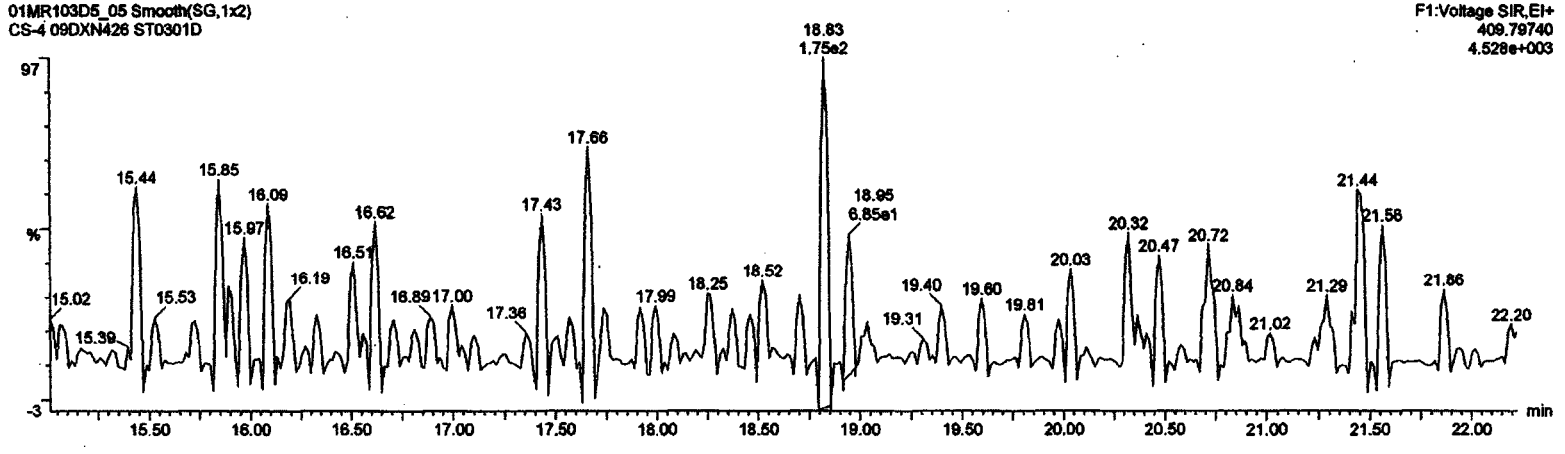
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

F1 PeCDFs



F1 PeCDF PCDPE



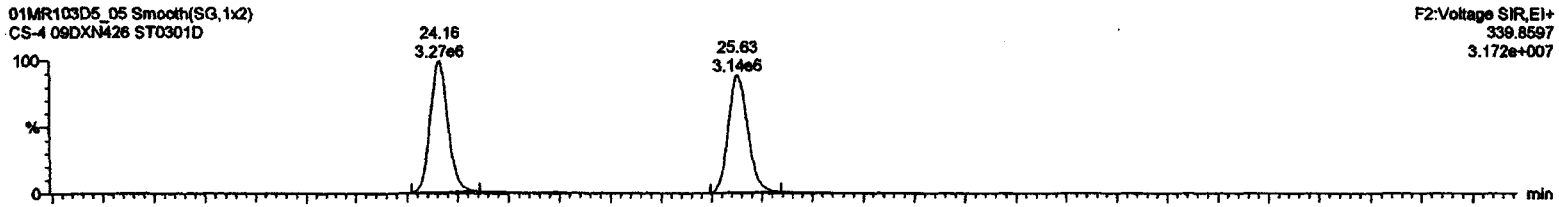
Quantify Sample Report **MassLynx 4.1**

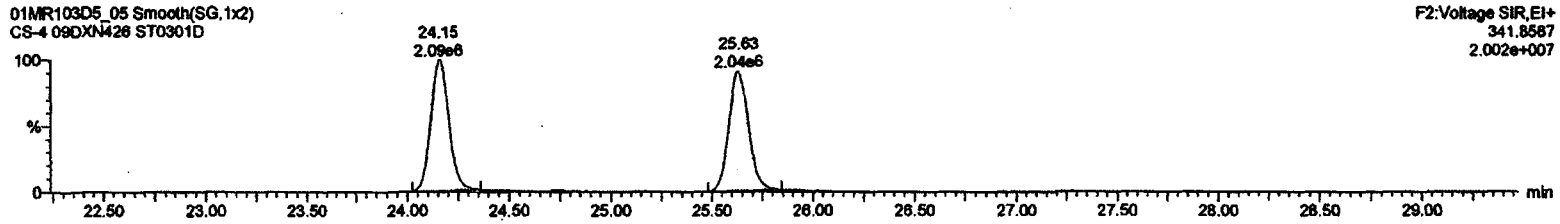
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

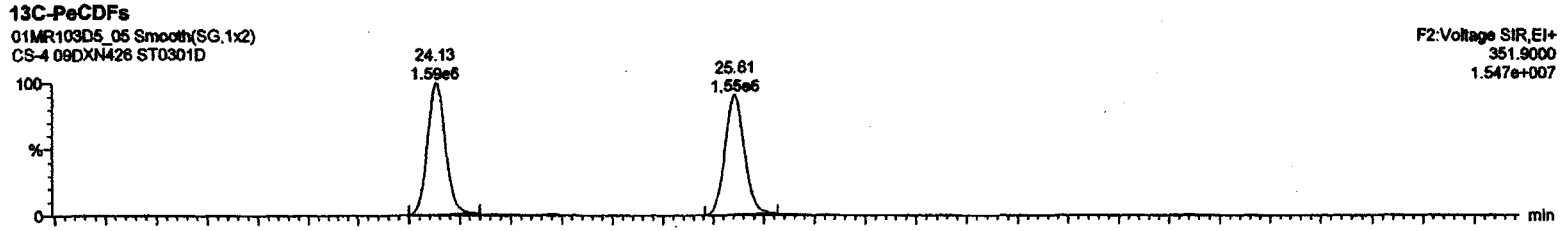
Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

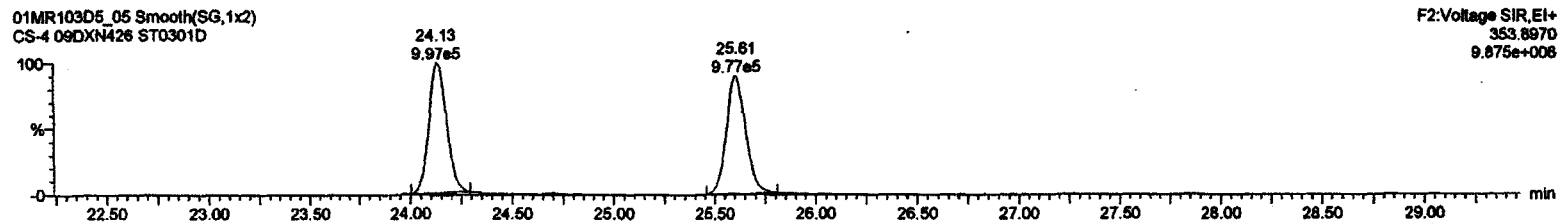
PeCDFs





13C-PeCDFs





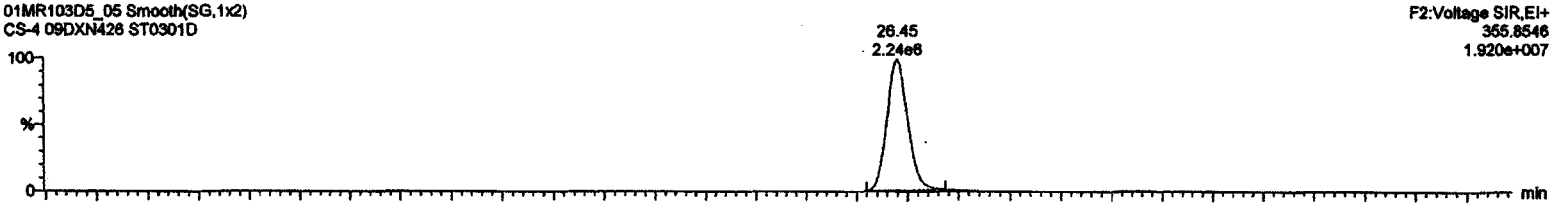
Quantify Sample Report **MassLynx 4.1**

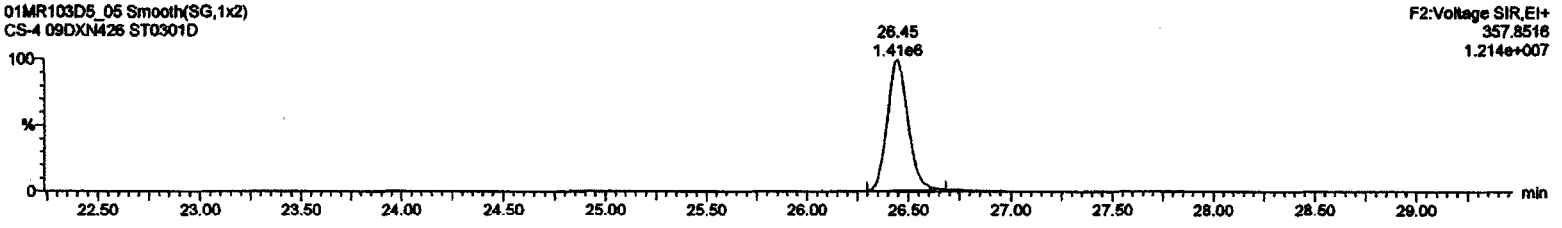
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

PeCDDs





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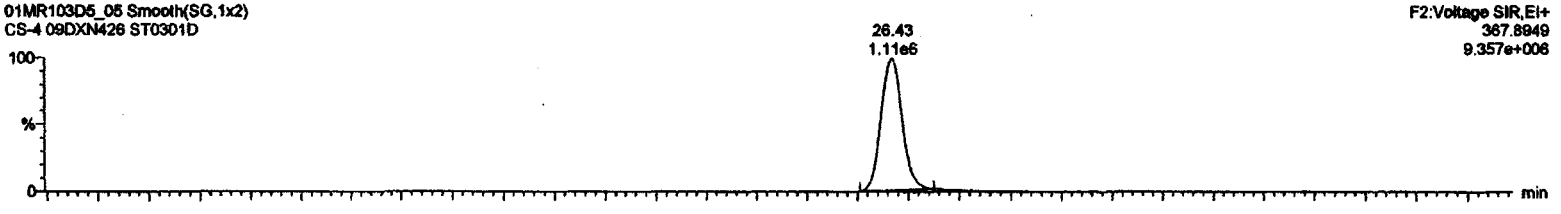
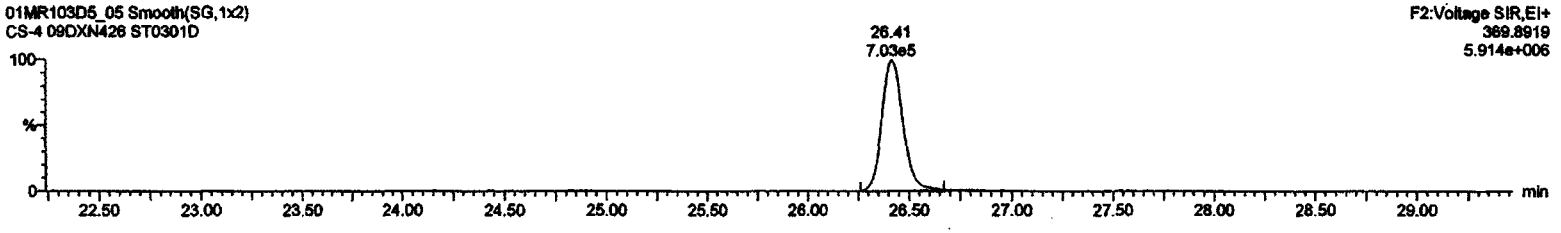




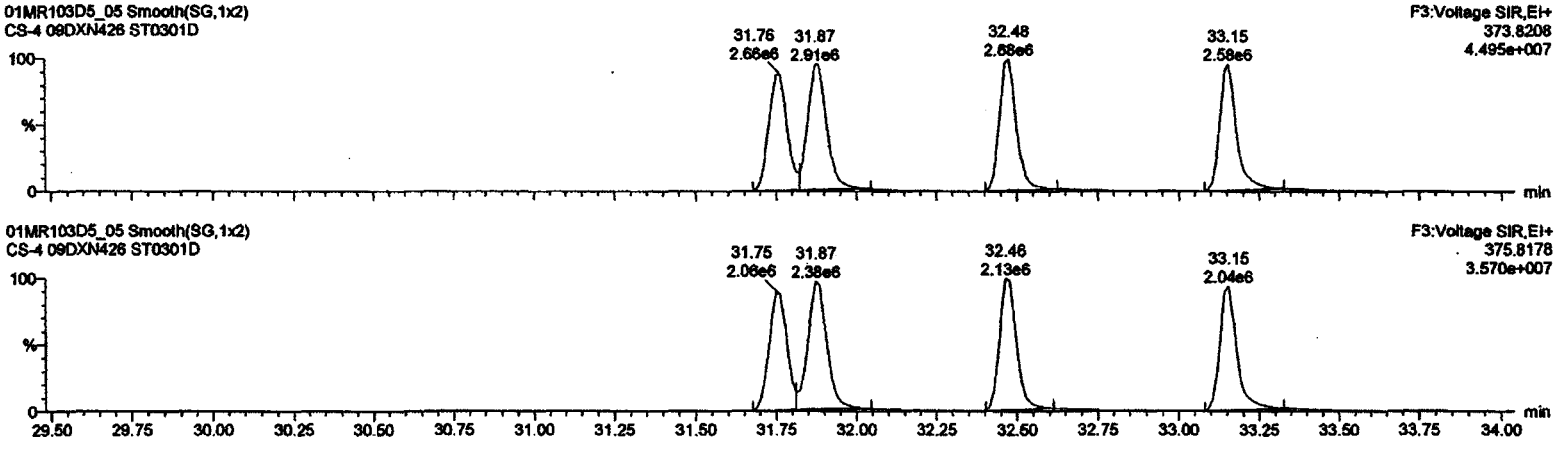
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

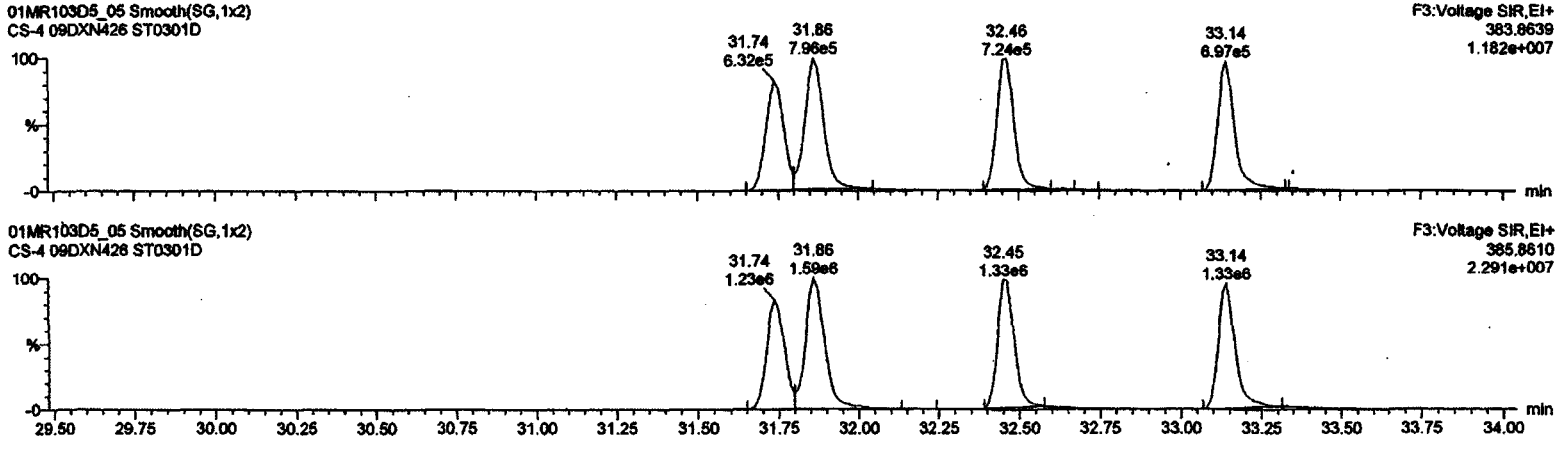
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

HxCDFs



13C-HxCDFs



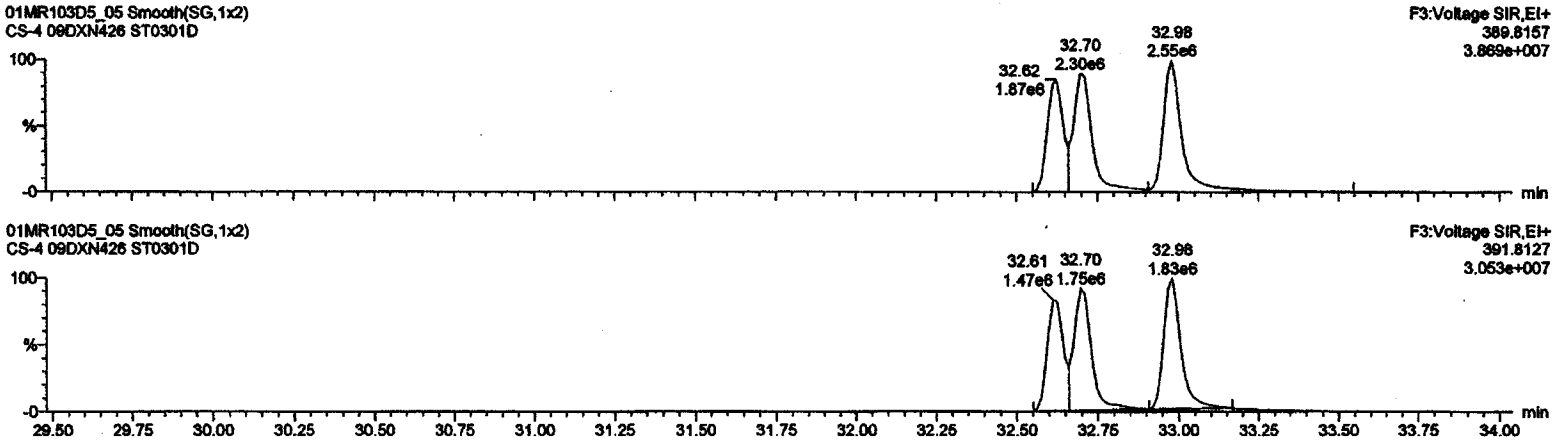
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

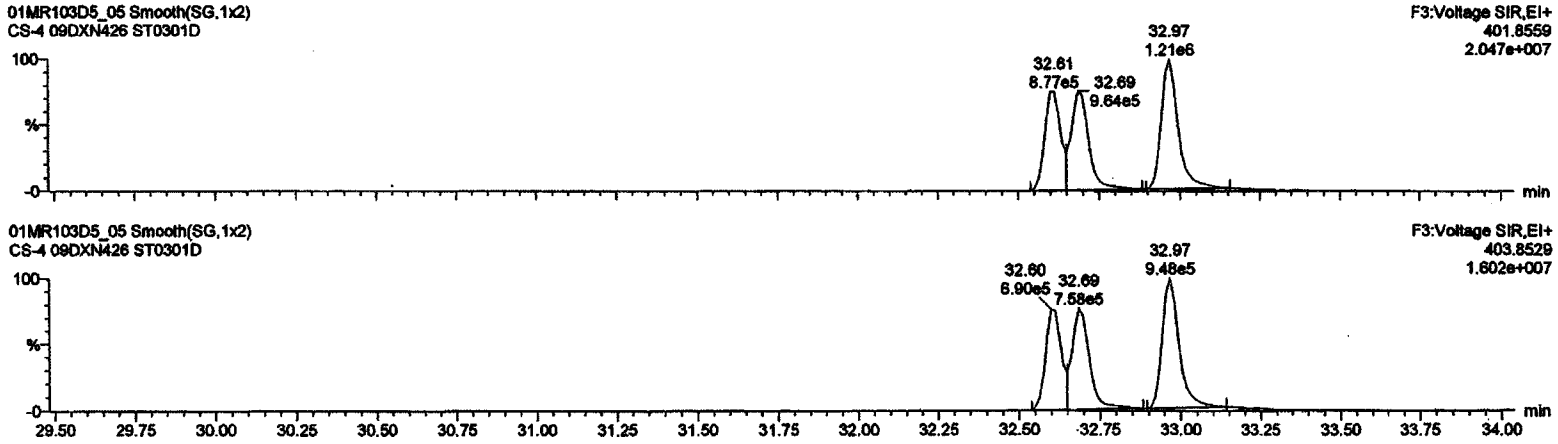
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

HxCDDs



13C-HxCDDs



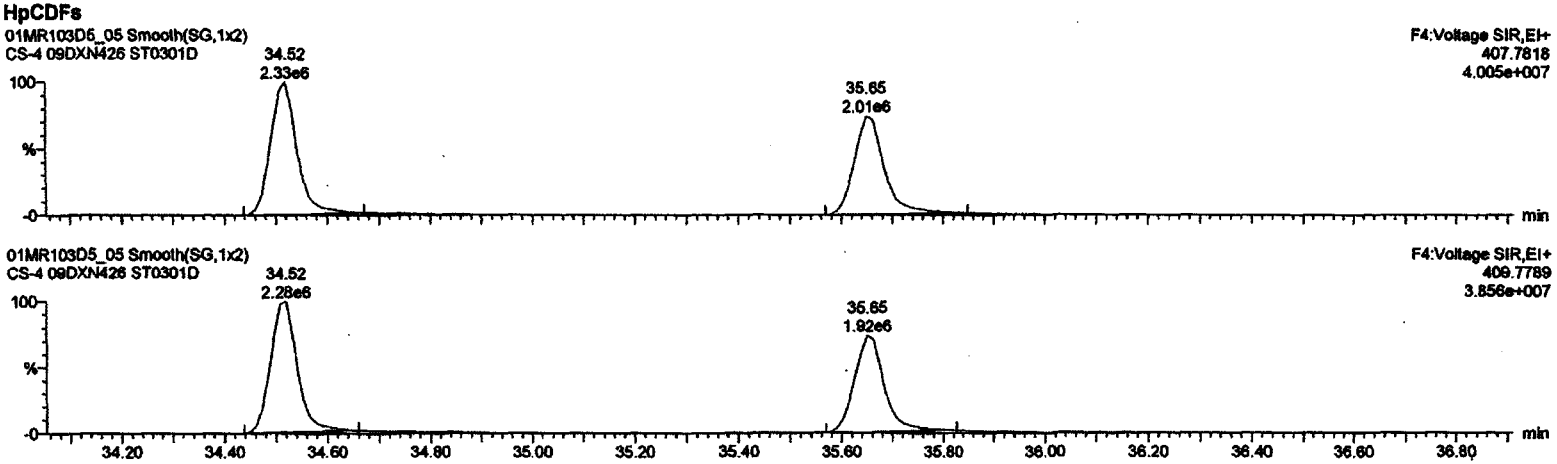
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

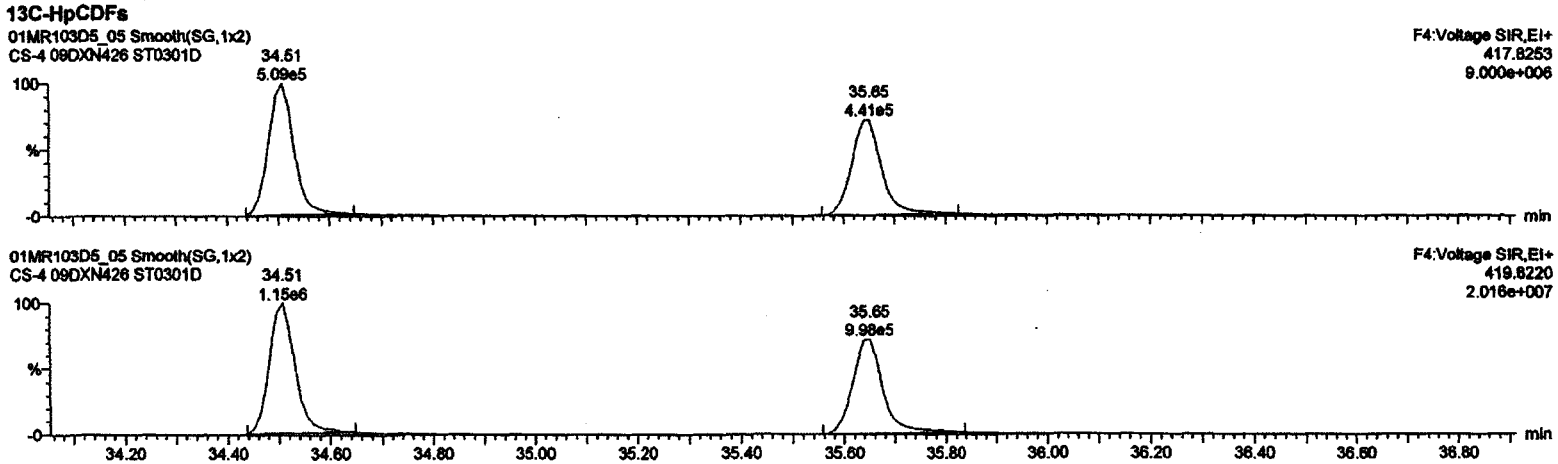
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

HpCDFs



13C-HpCDFs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

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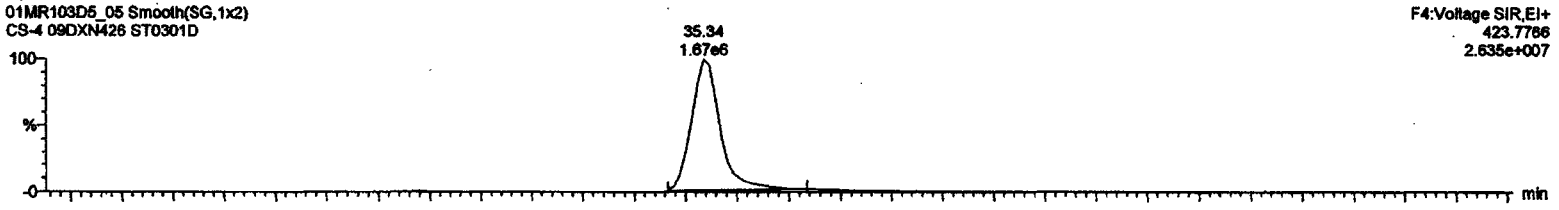
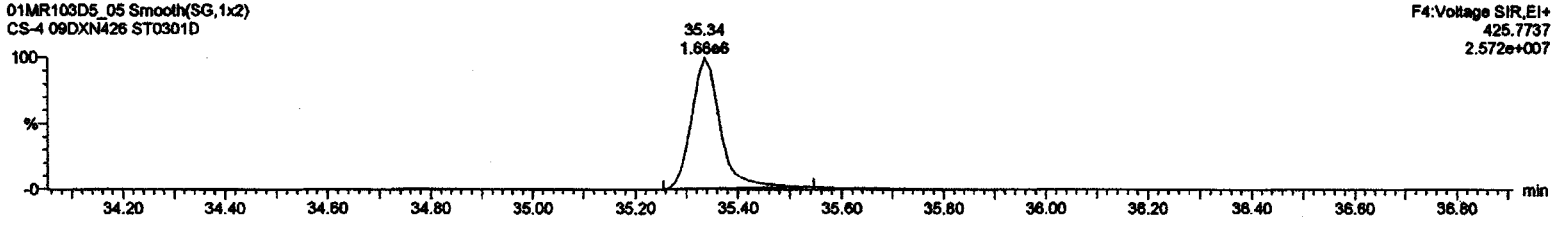
HpCDDs





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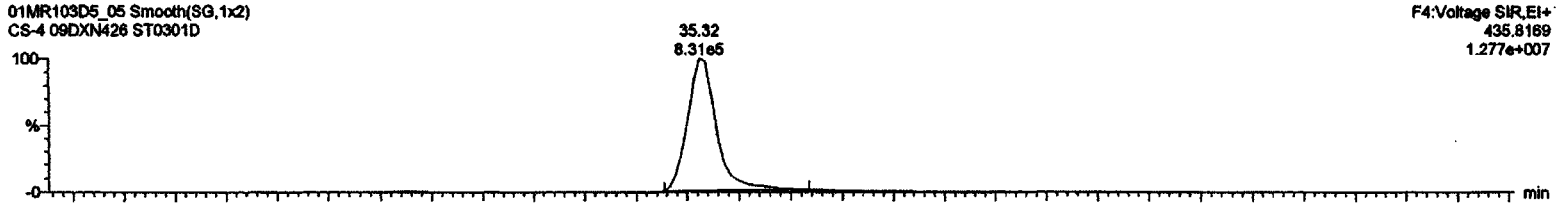
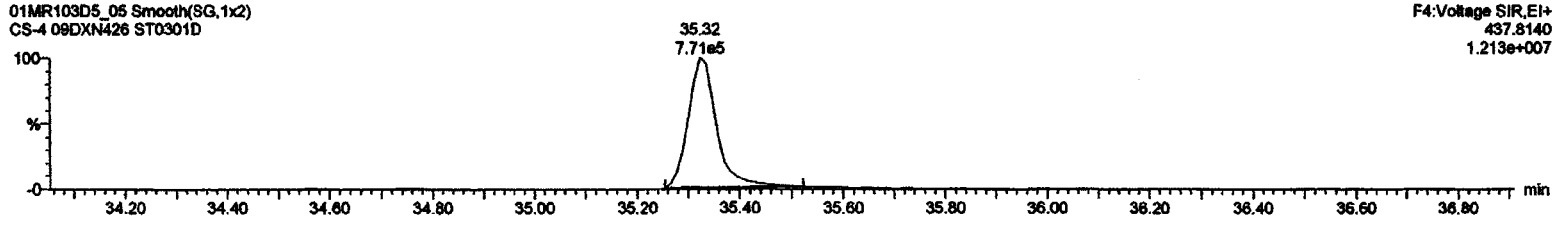




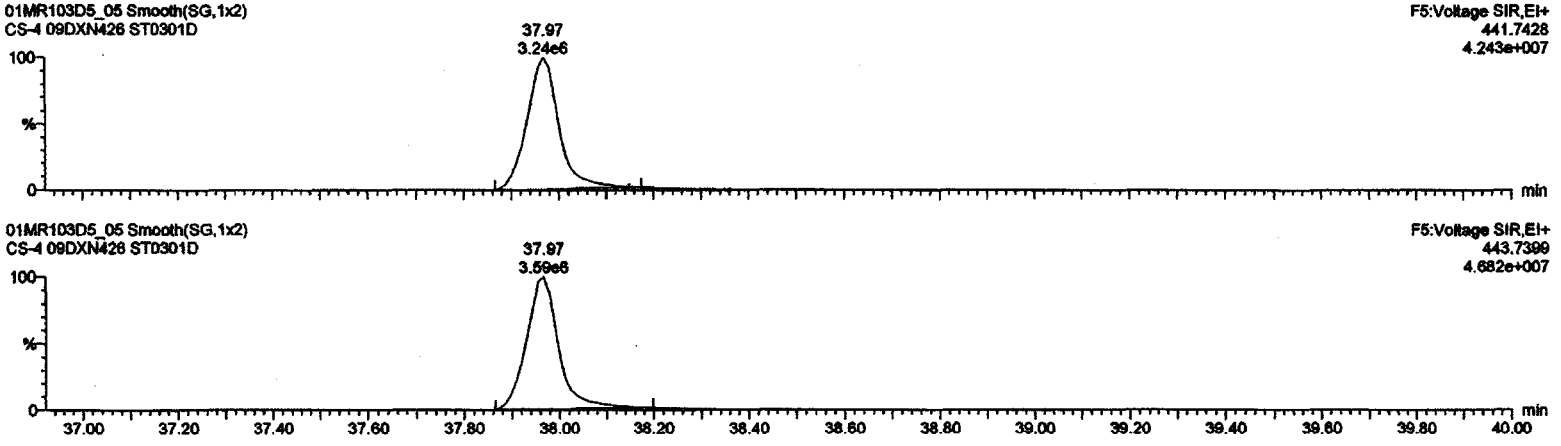
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

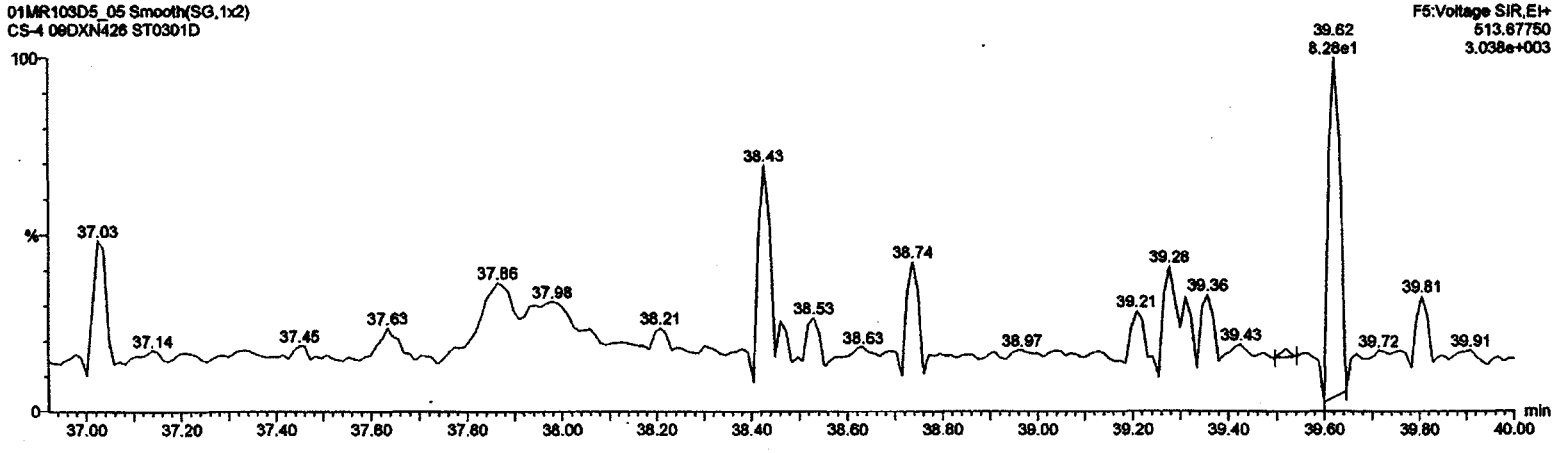
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

OCDFs



OCDF PCDPE



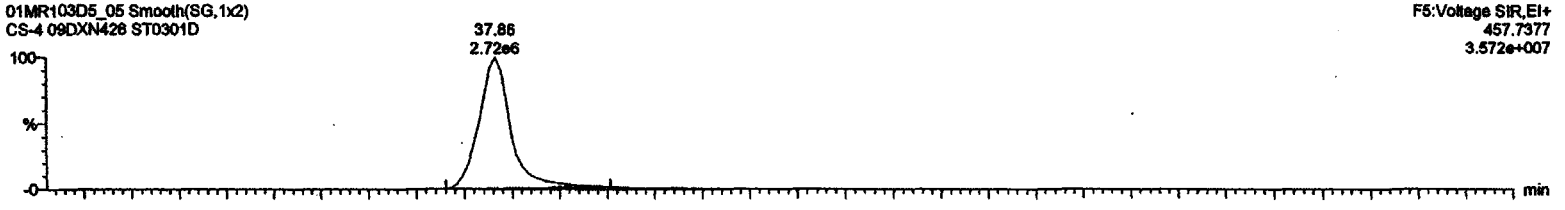
Quantify Sample Report **MassLynx 4.1**

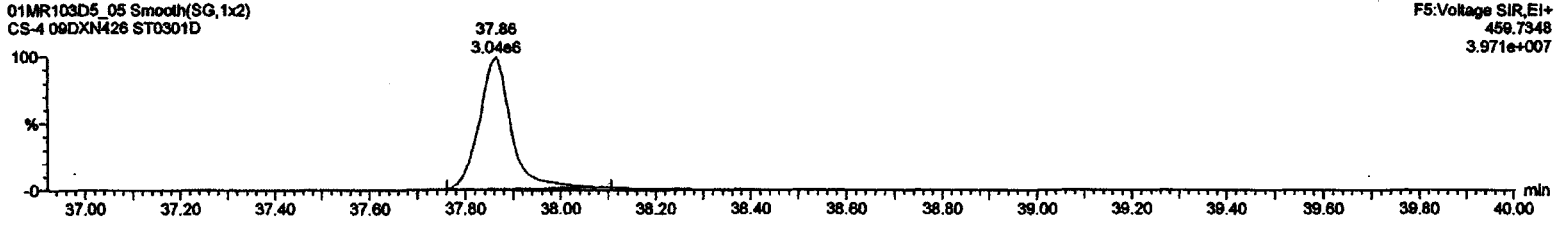
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

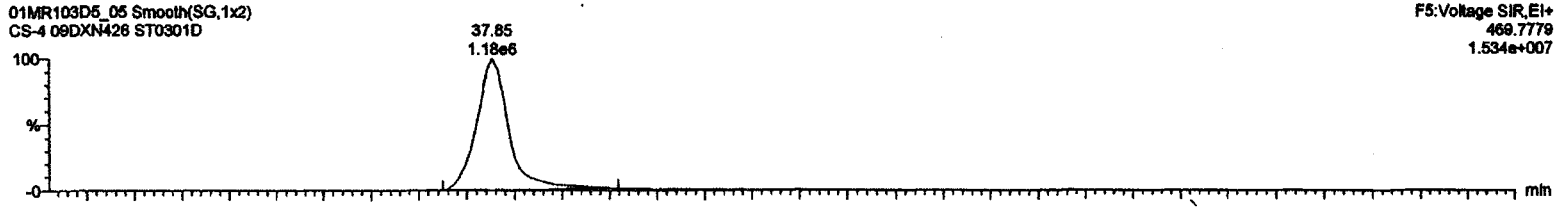
Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

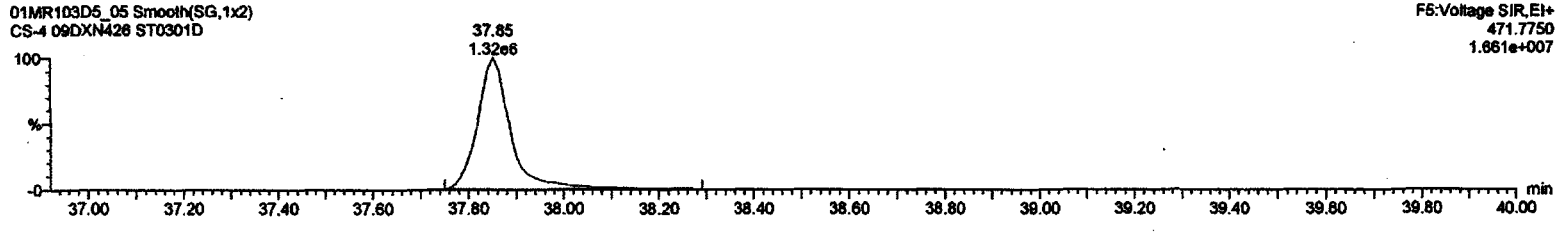
OCDD





13C-OCDD





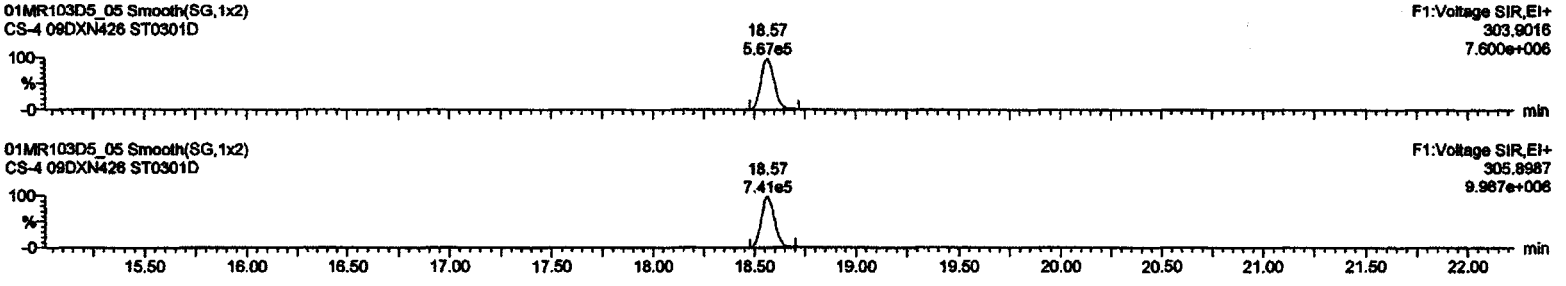
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

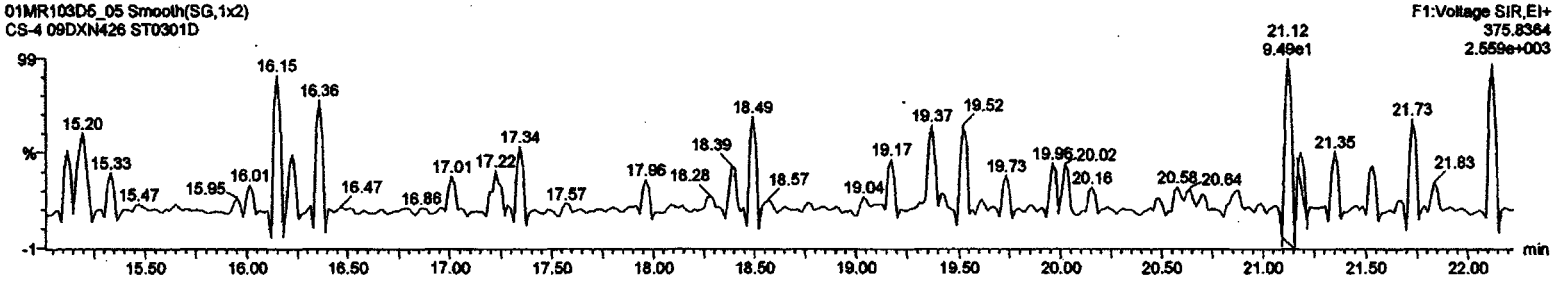
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

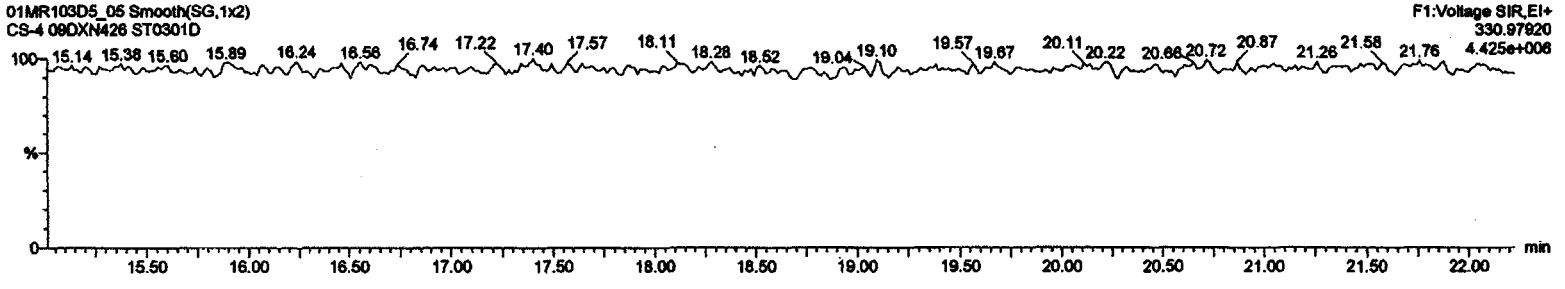
TCDFs



TCDF PCDPE



Function 1 PFK



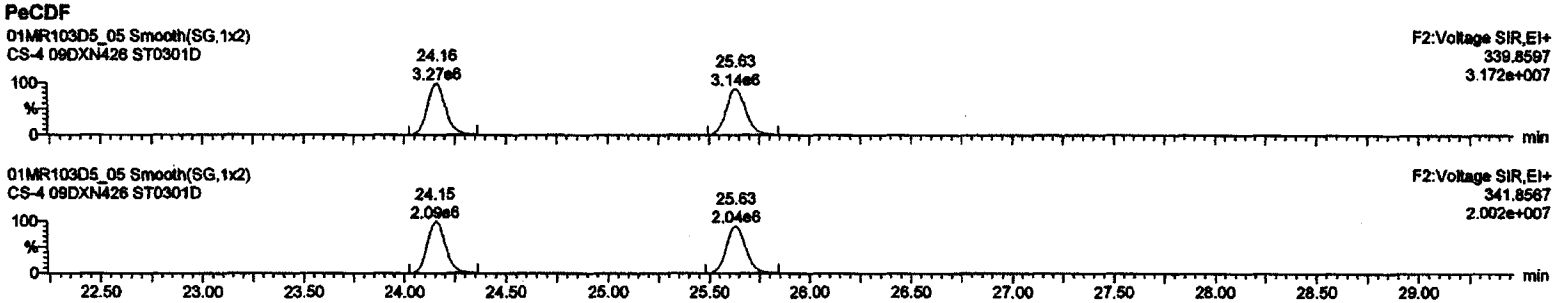
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

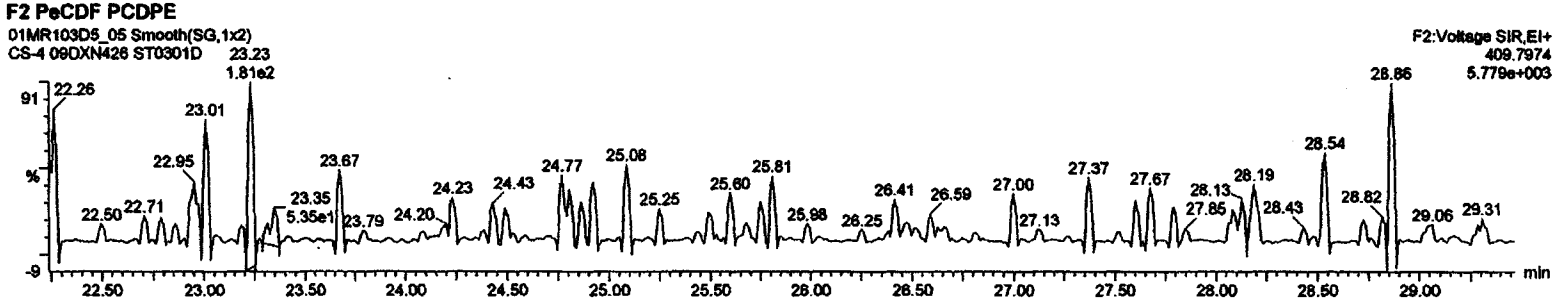
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

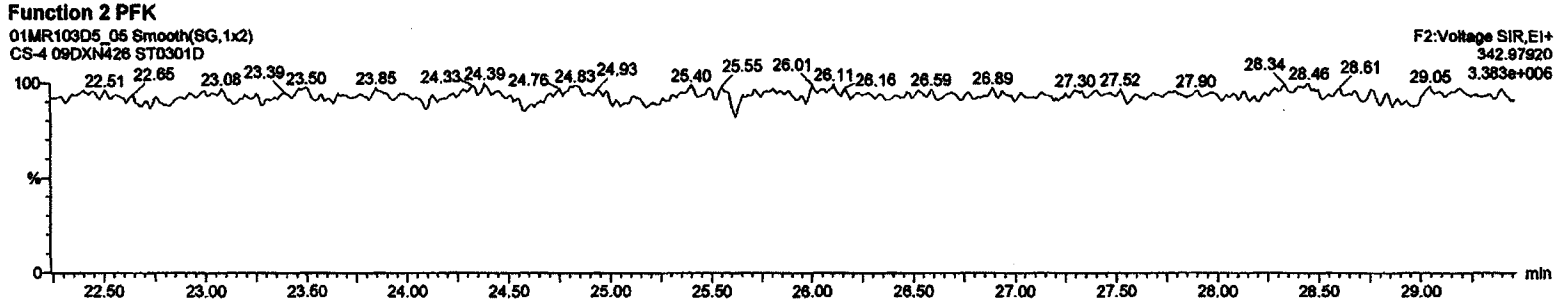
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



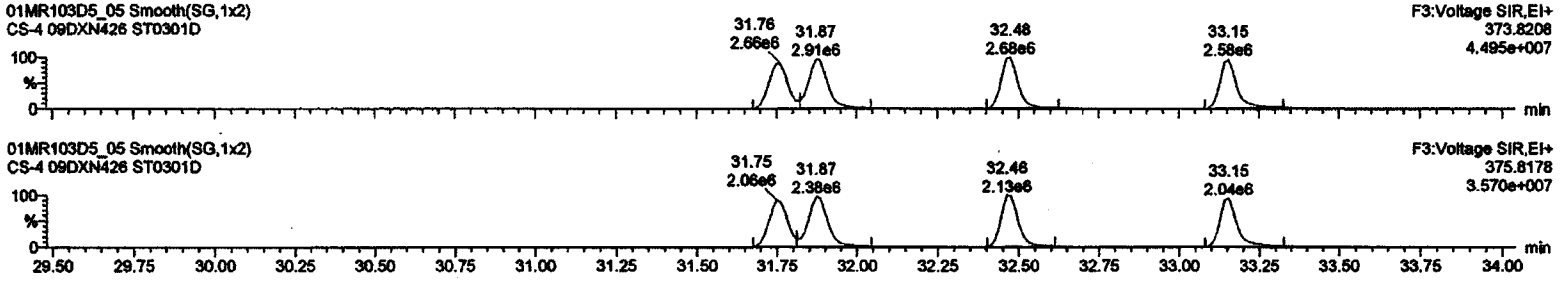
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

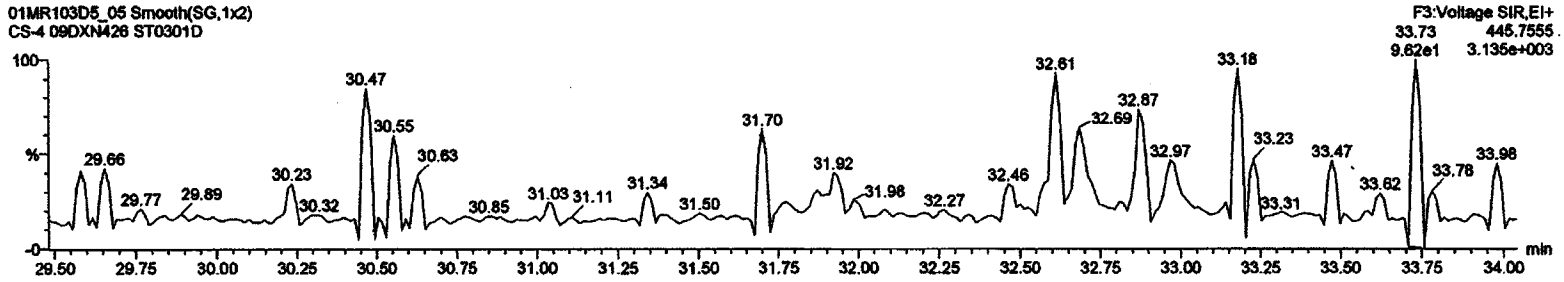
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

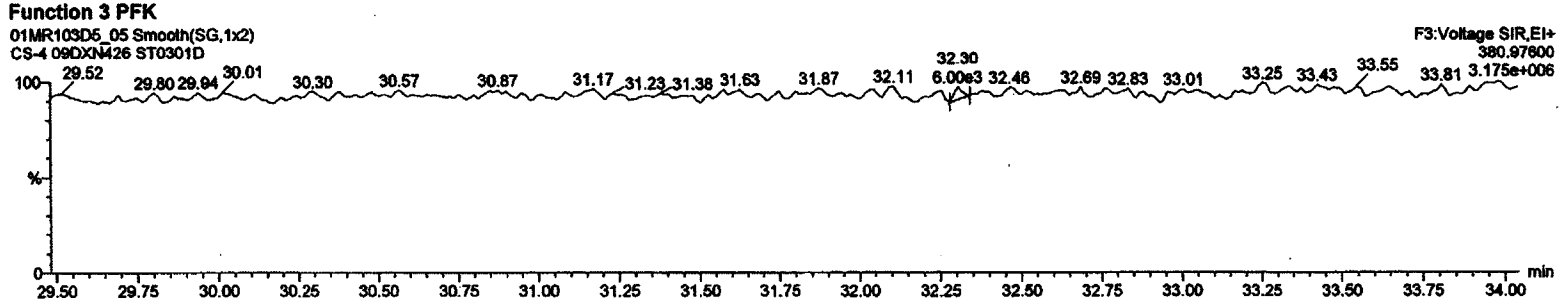
HxCDFs



HxCDF PCDPE



Function 3 PFK



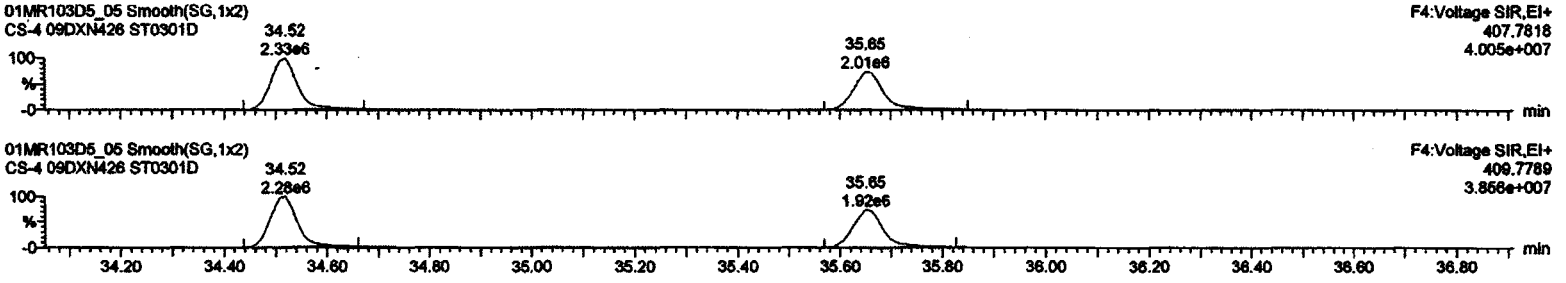
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\CA030120103D51613.qld

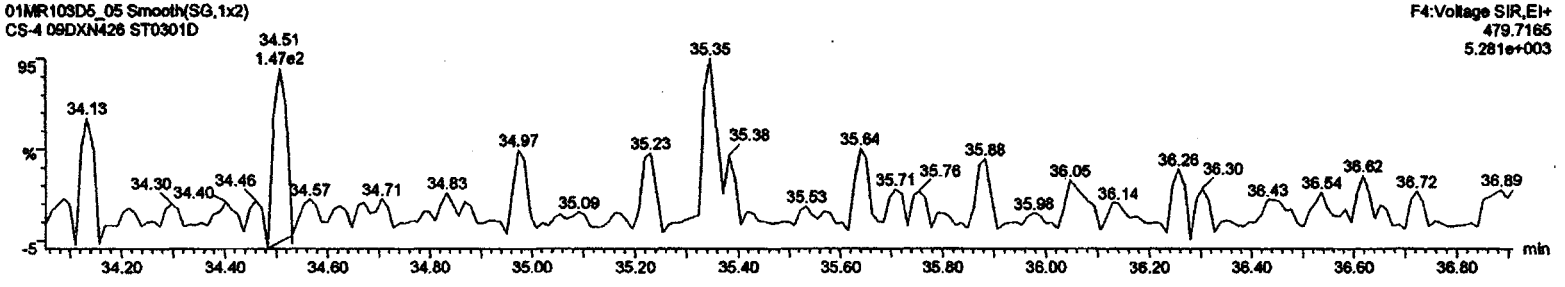
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

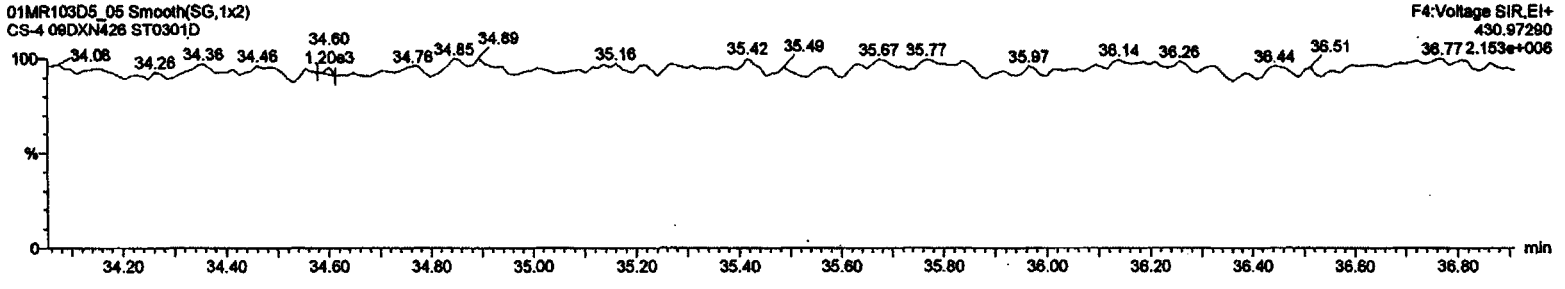
HpCDFs



HpCDF PCDPE



Function 4 PFK



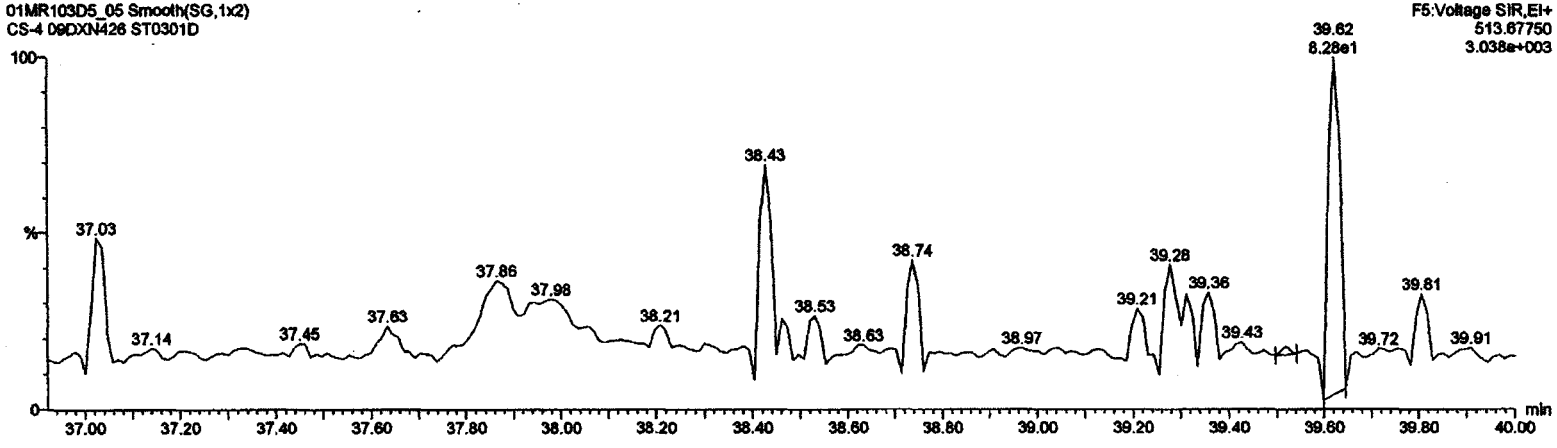
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

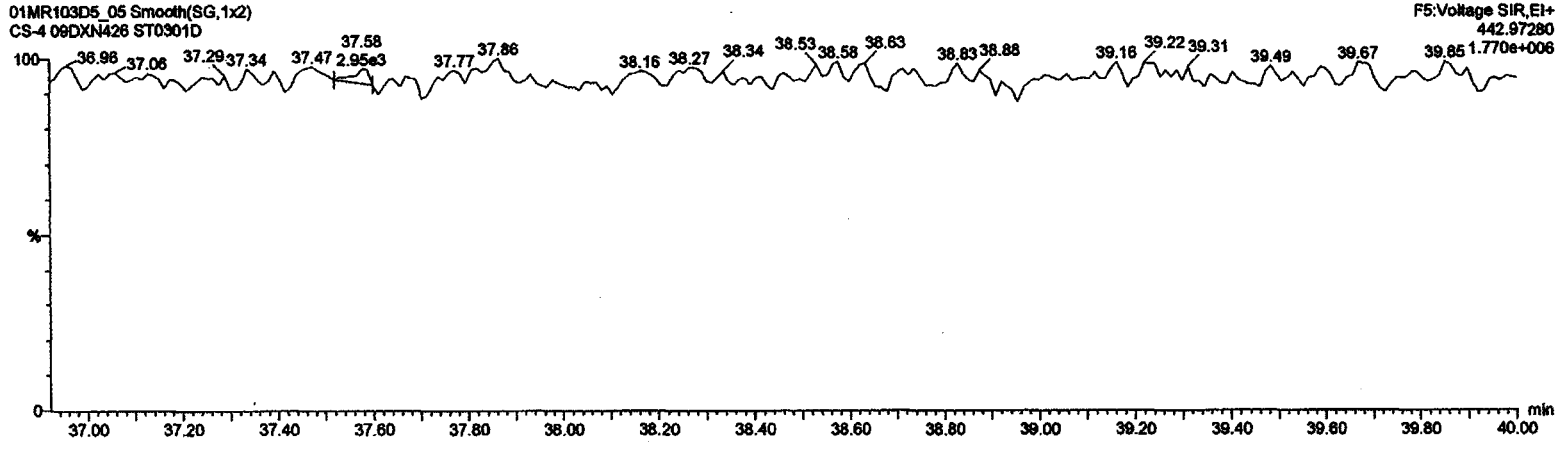
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

OCDF PCDPE



Function 5 PFK



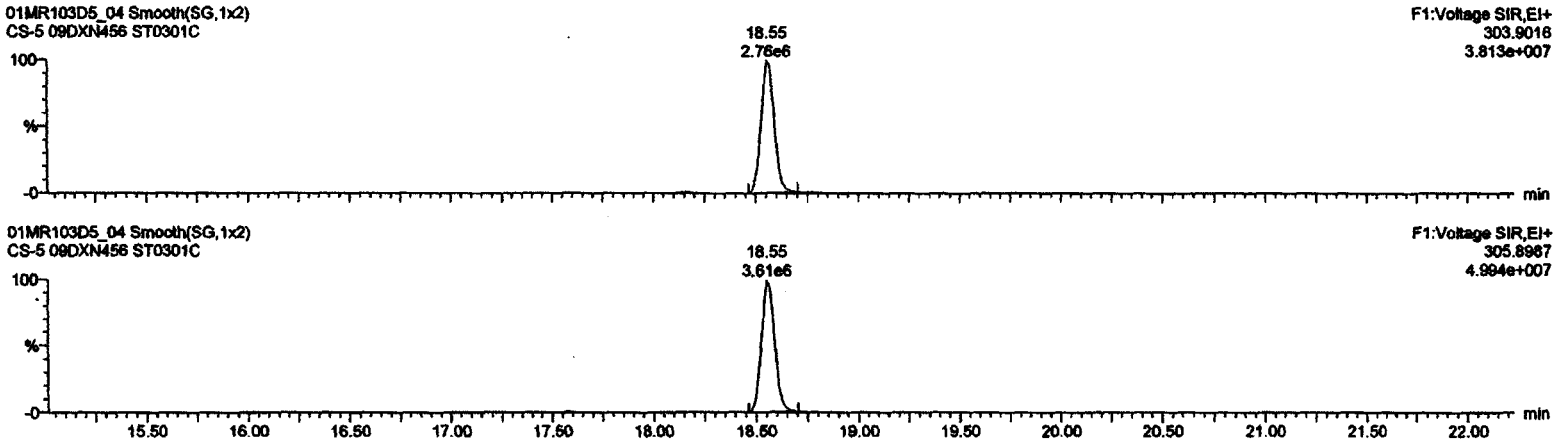
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

TCDFs



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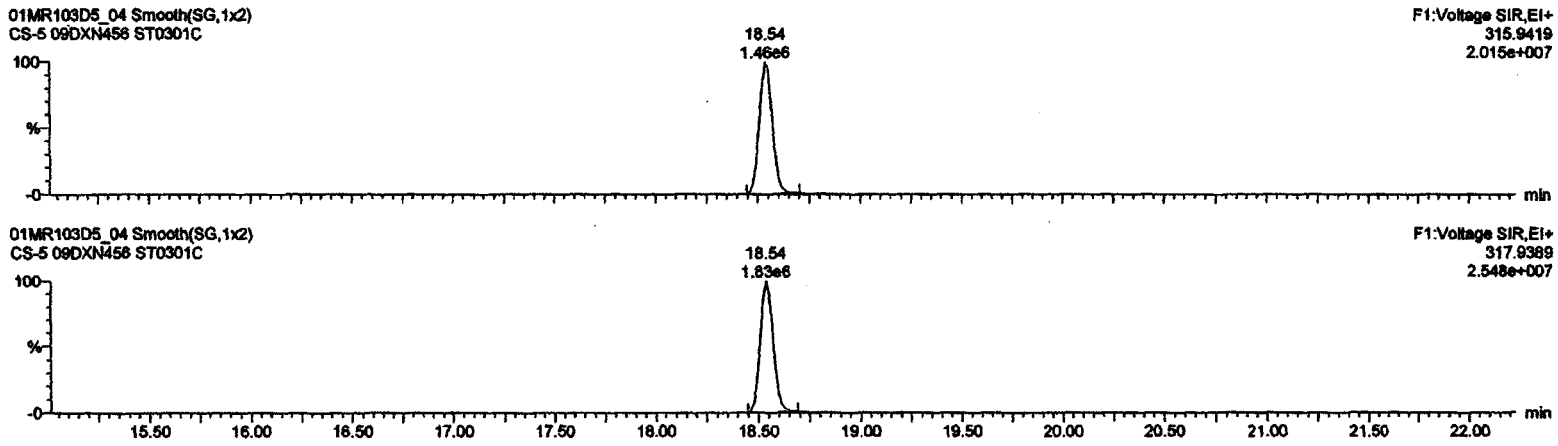

Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

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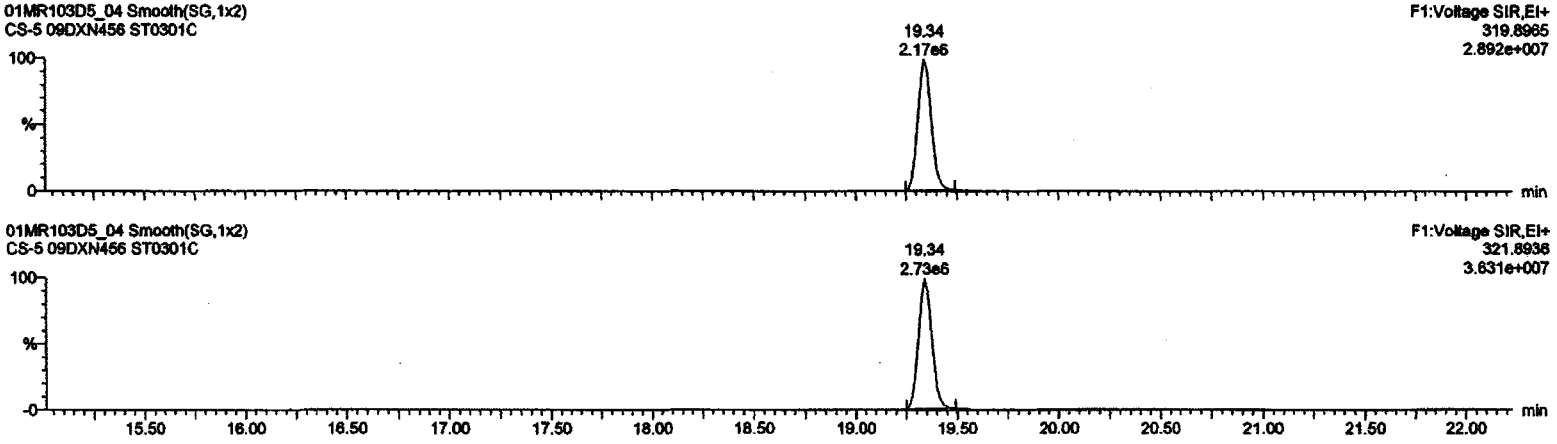
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

TCDDs



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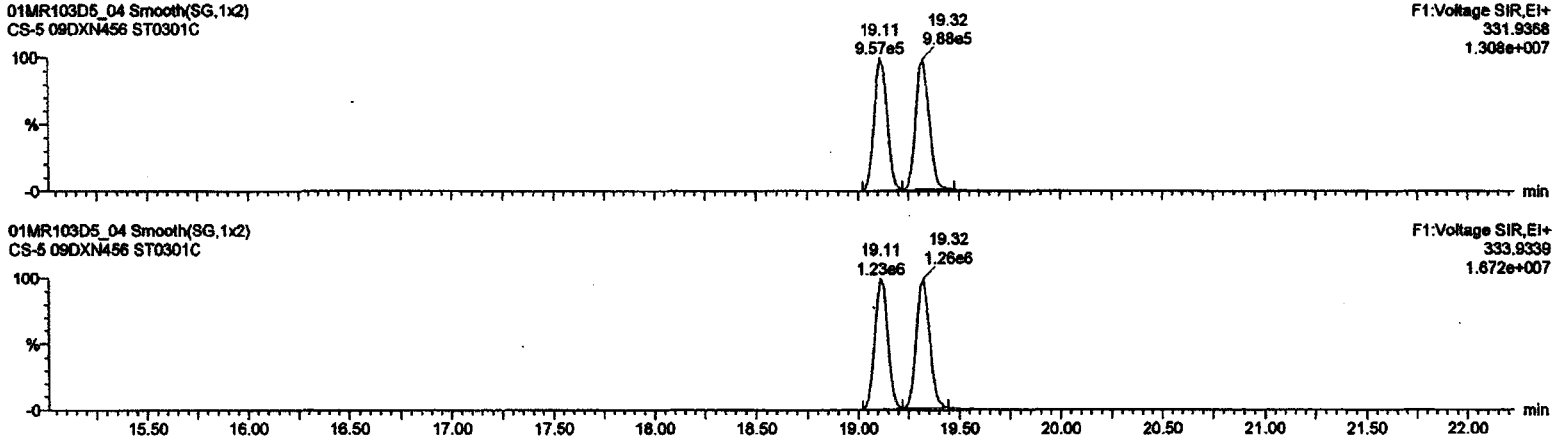

Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

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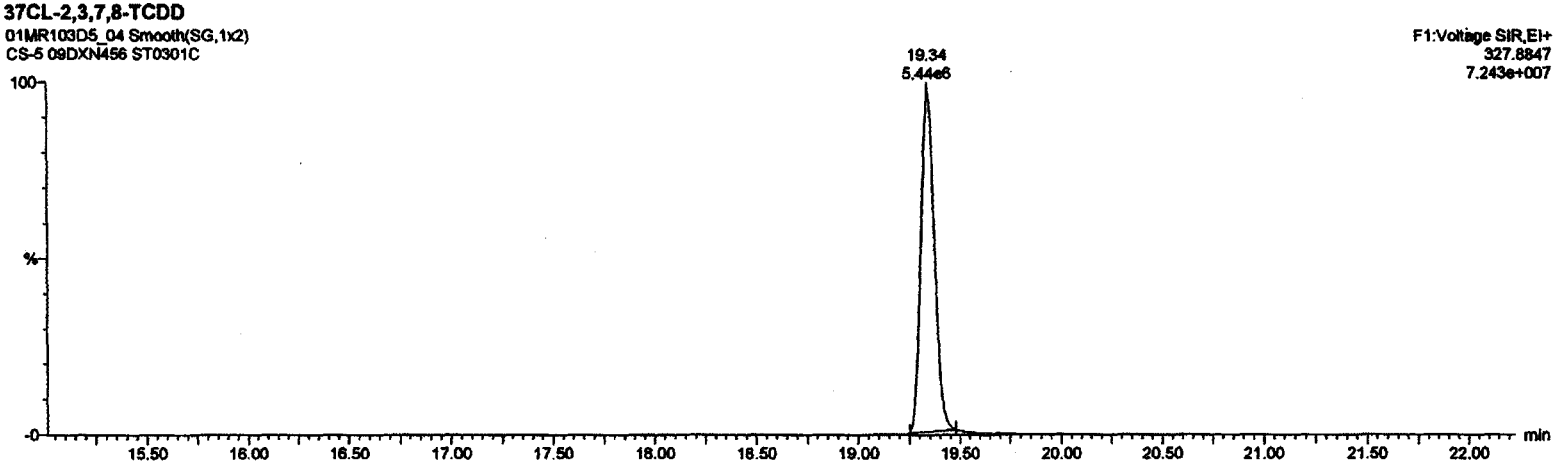
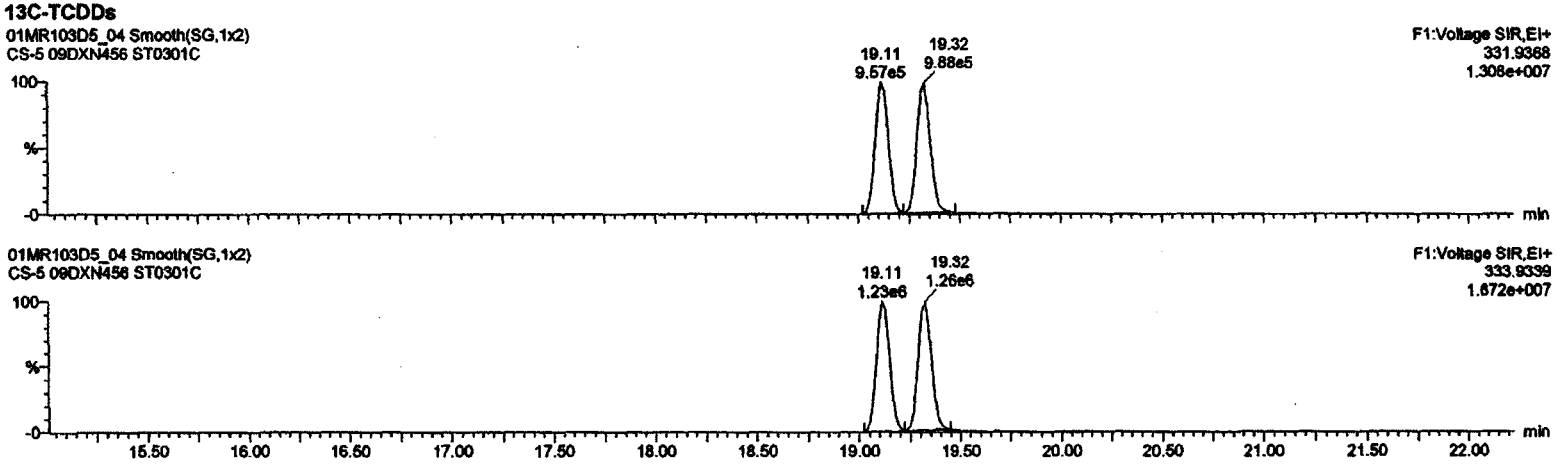
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

37CL-2,3,7,8-TCDD



13C-TCDDs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

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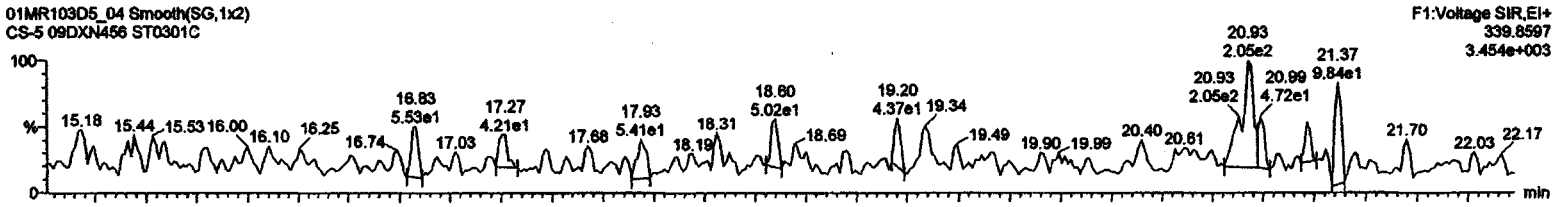
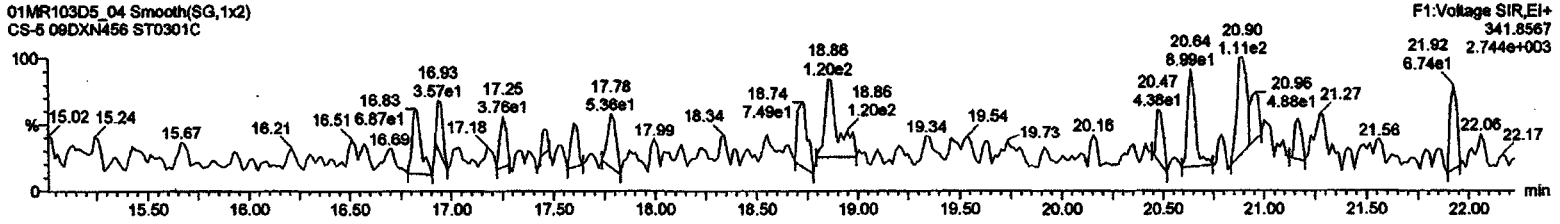
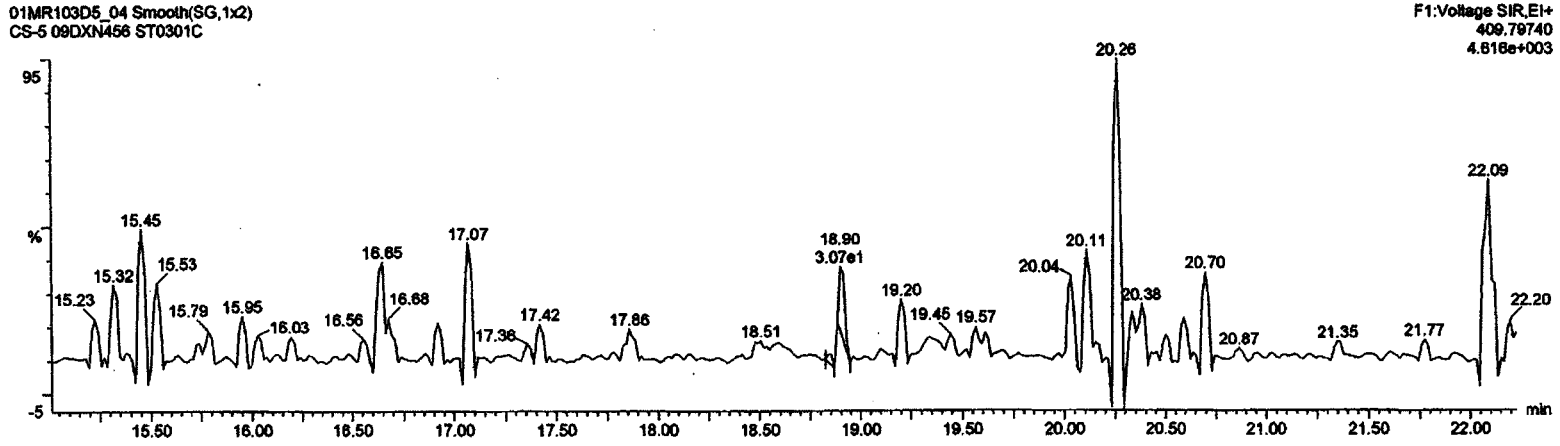
Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

F1 PeCDFs





F1 PeCDF PCDPE



Quantify Sample Report **MassLynx 4.1**

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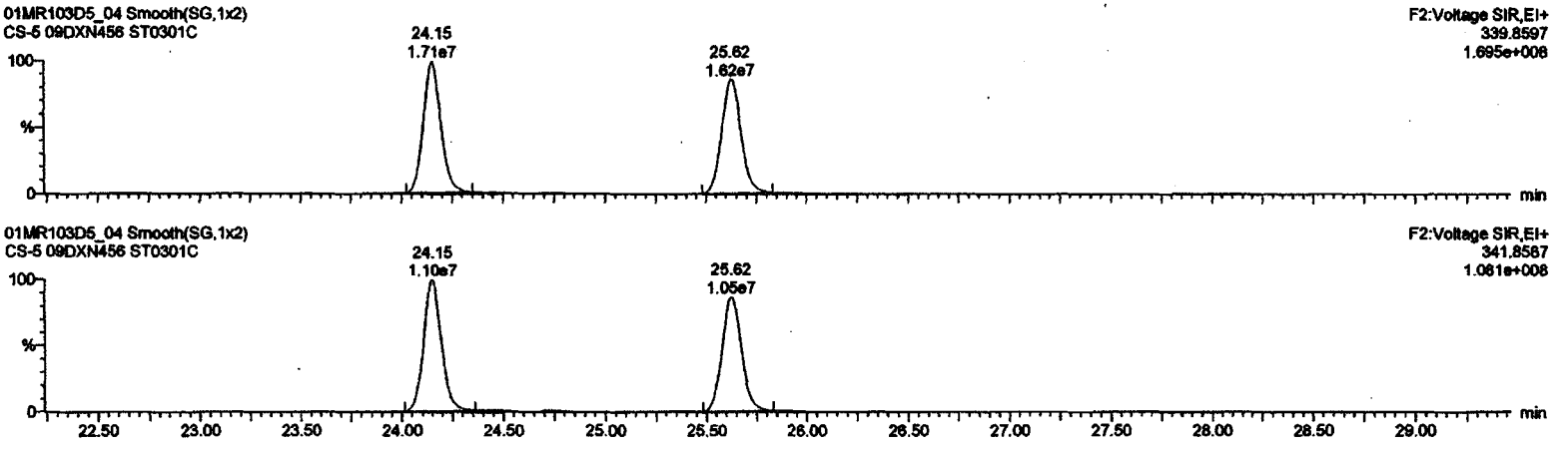
PeCDFs



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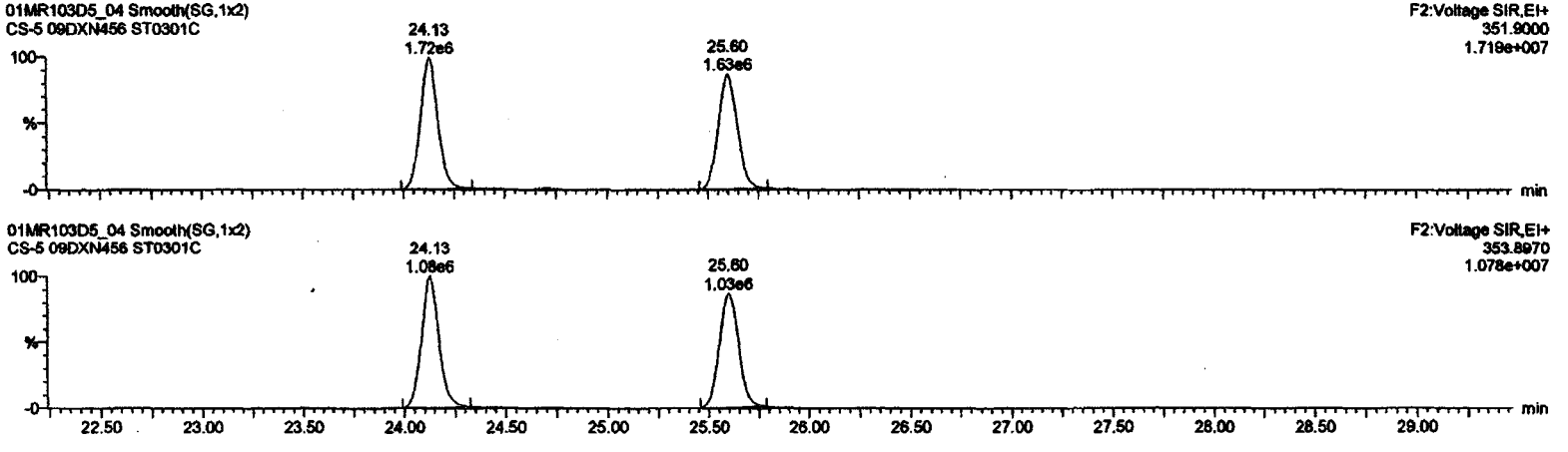

Quantify Sample Report **MassLynx 4.1**

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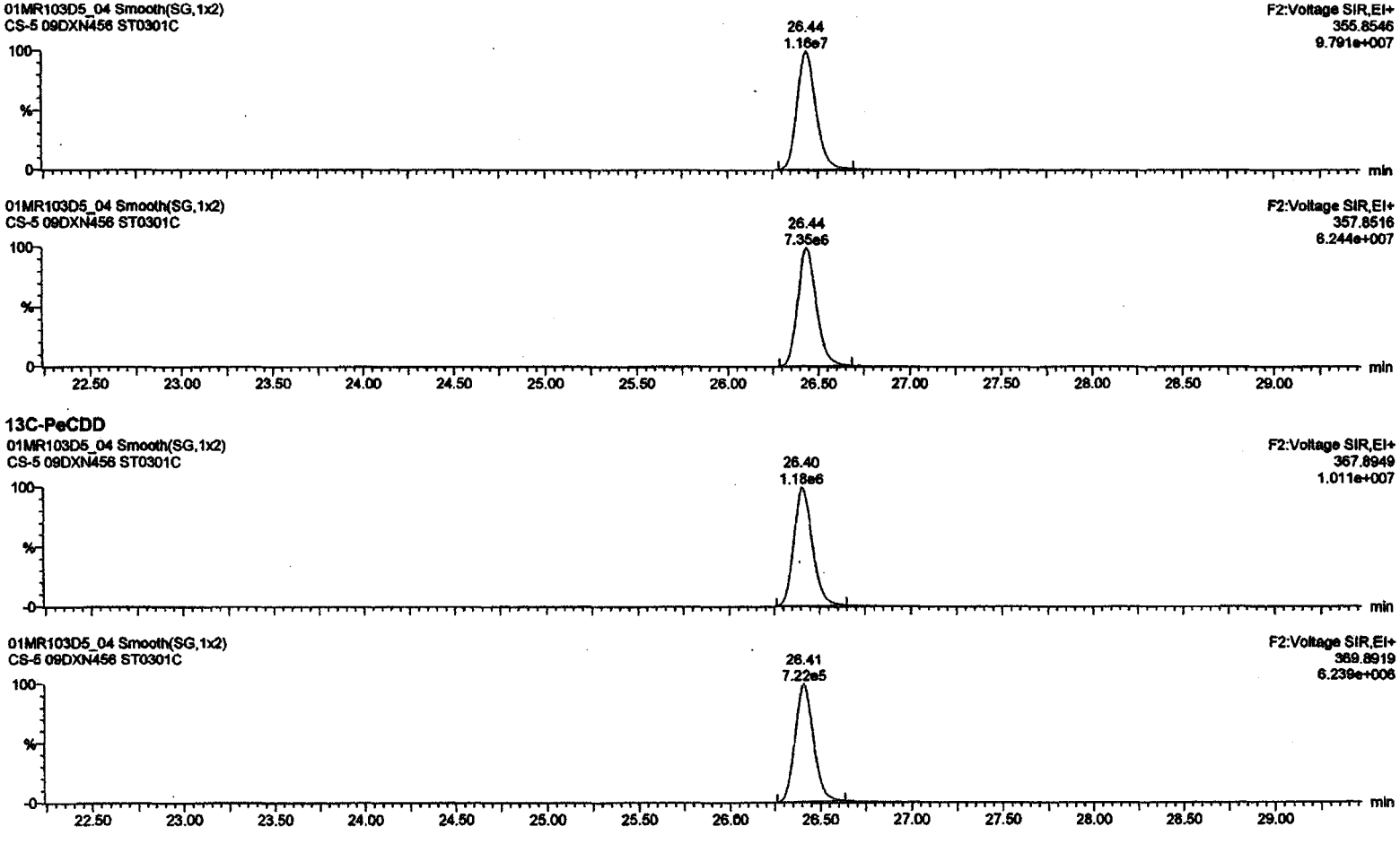
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

PeCDDs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
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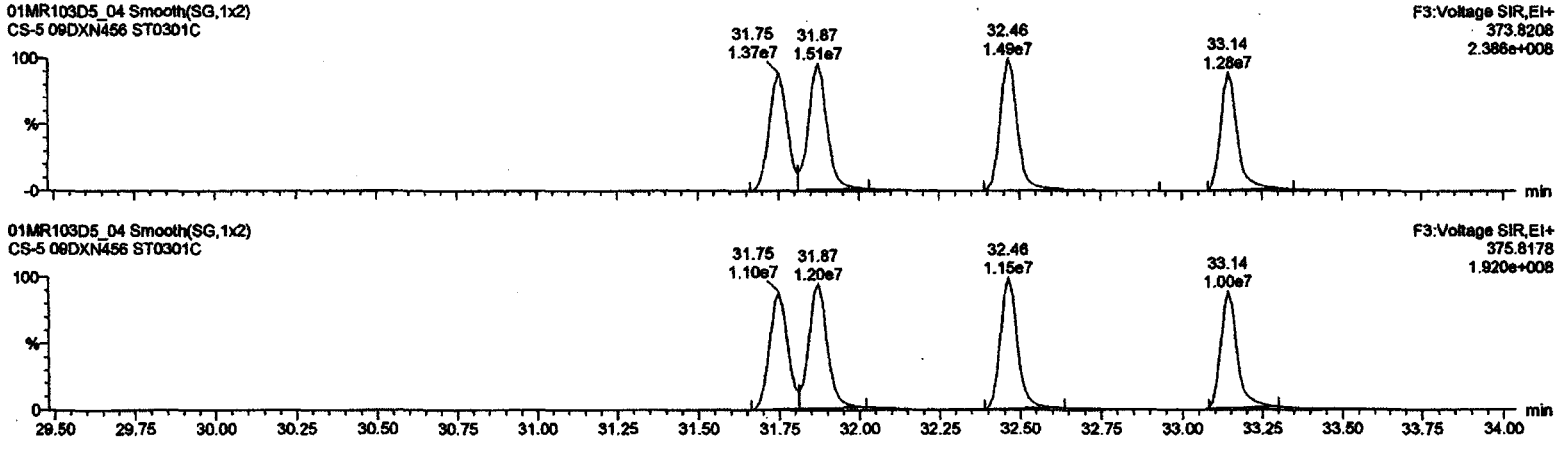
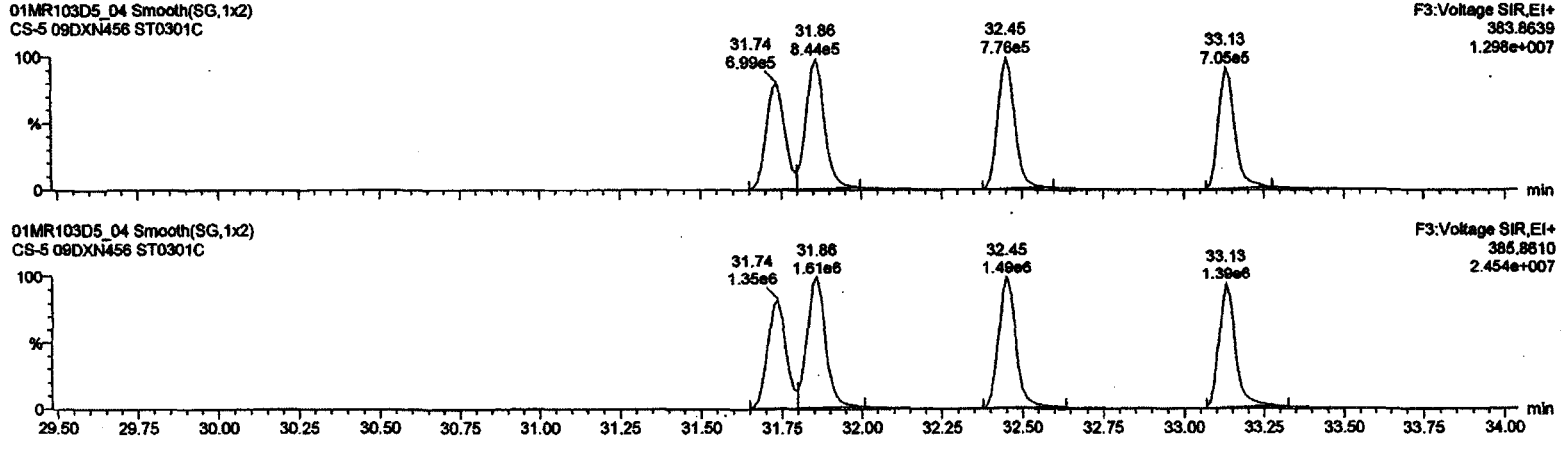
HxCDFs



13C-HxCDFs



Quantify Sample Report **MassLynx 4.1**

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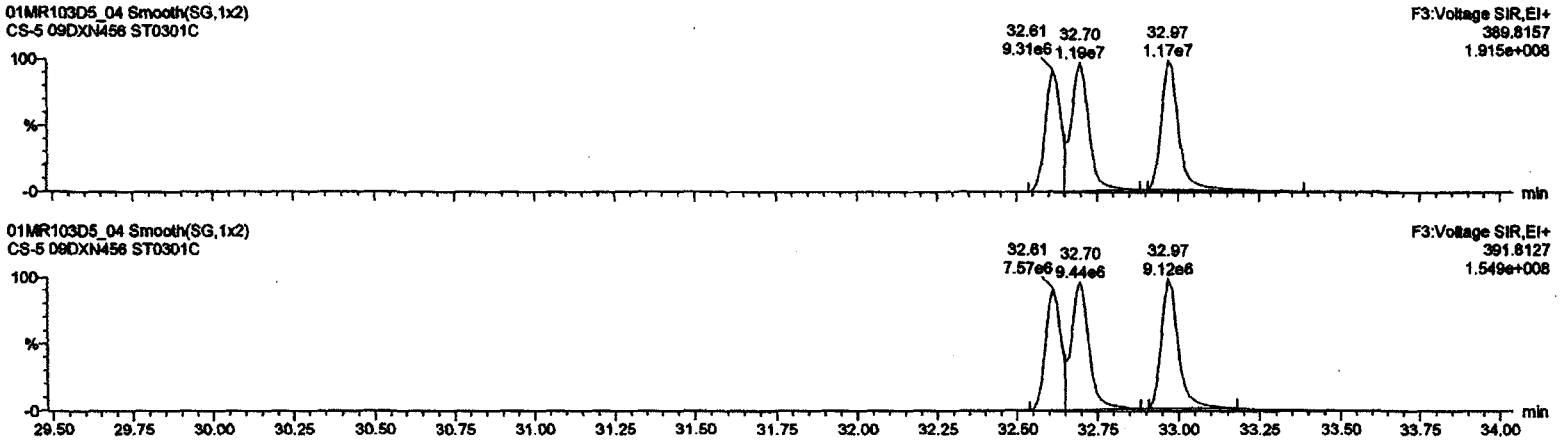
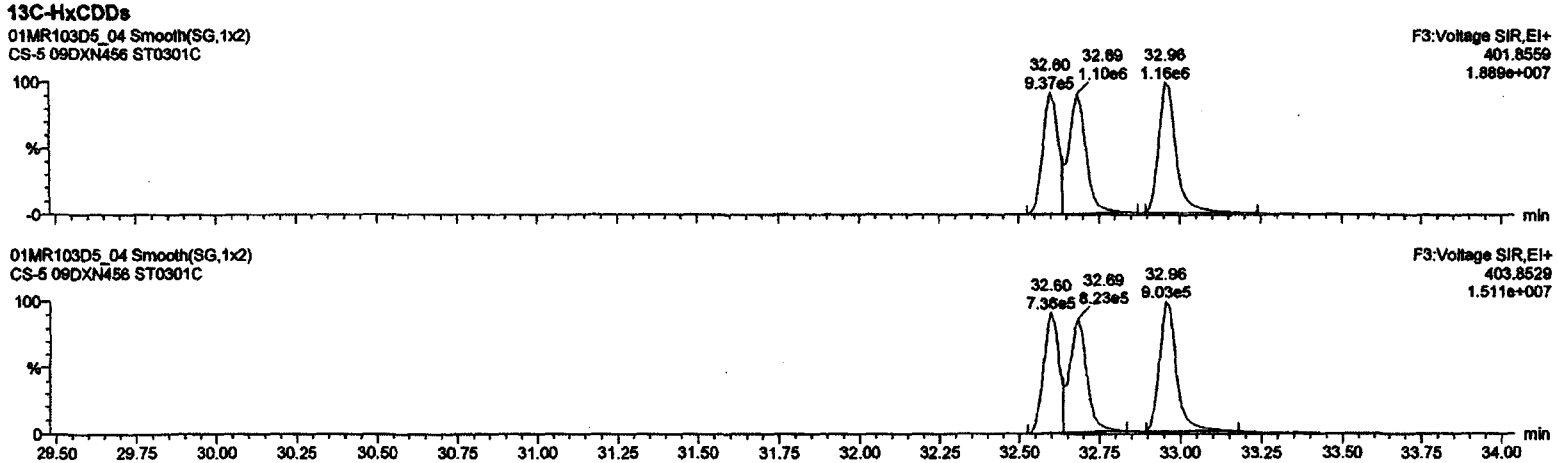
Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

HxCDDs



13C-HxCDDs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
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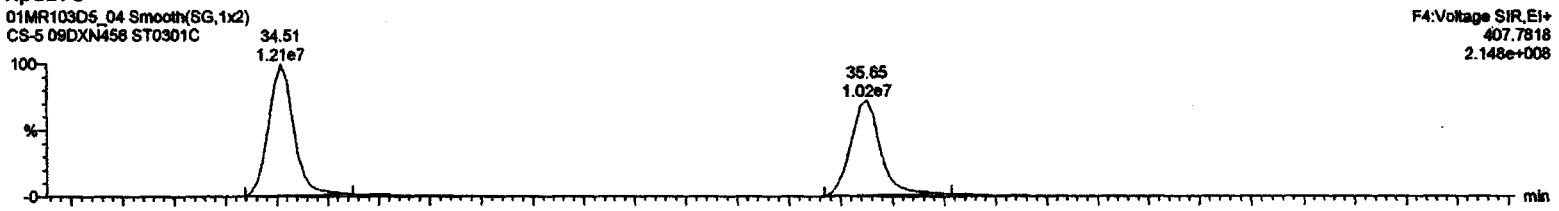
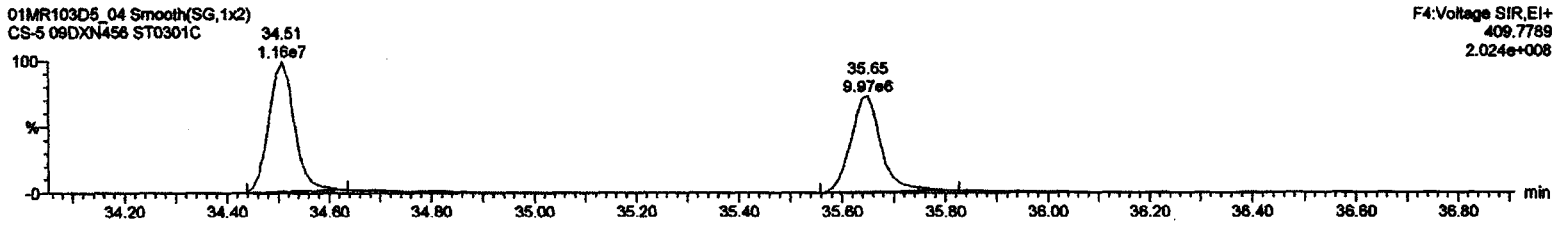
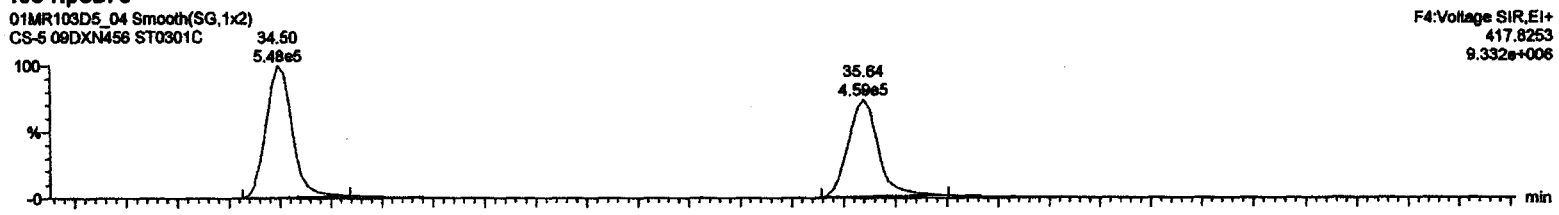
Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

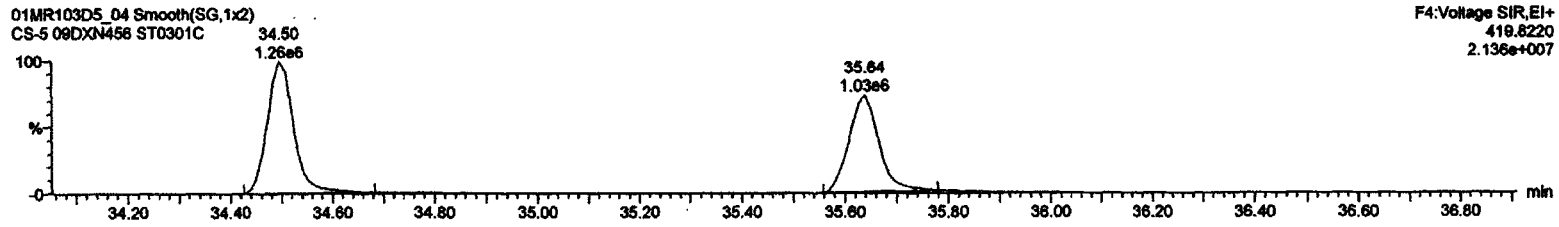
HpCDFs





13C-HpCDFs





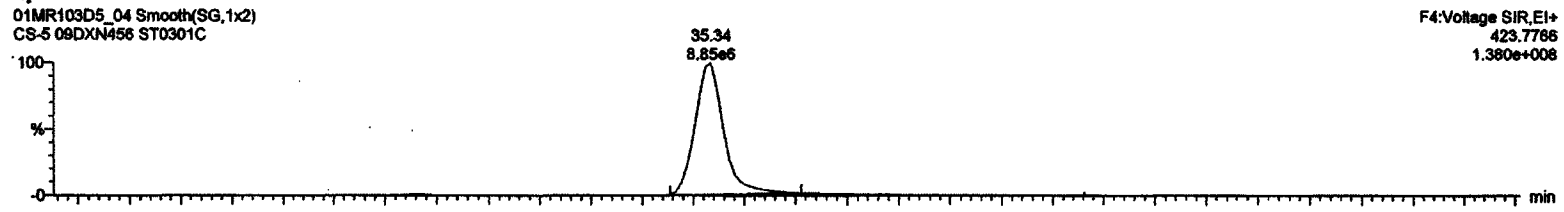
Quantify Sample Report **MassLynx 4.1**

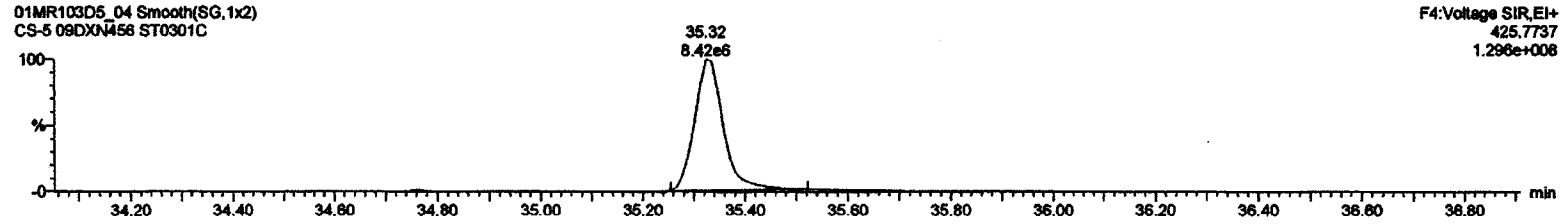
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

HpCDDs





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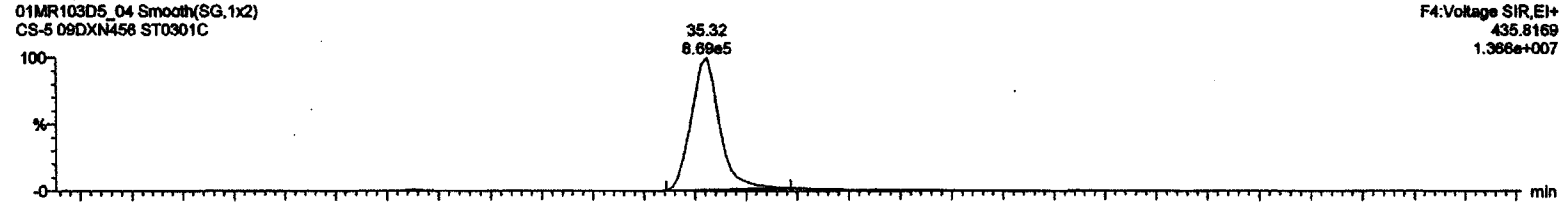
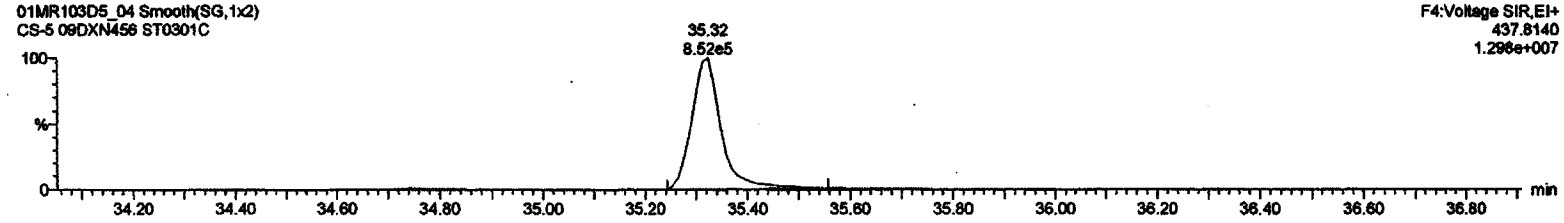




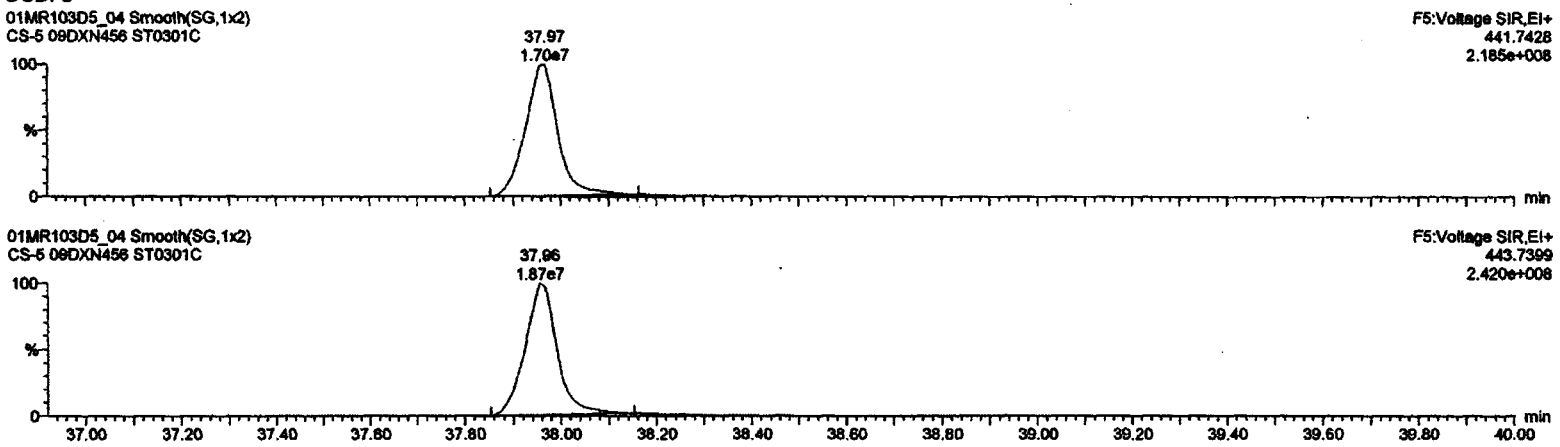
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

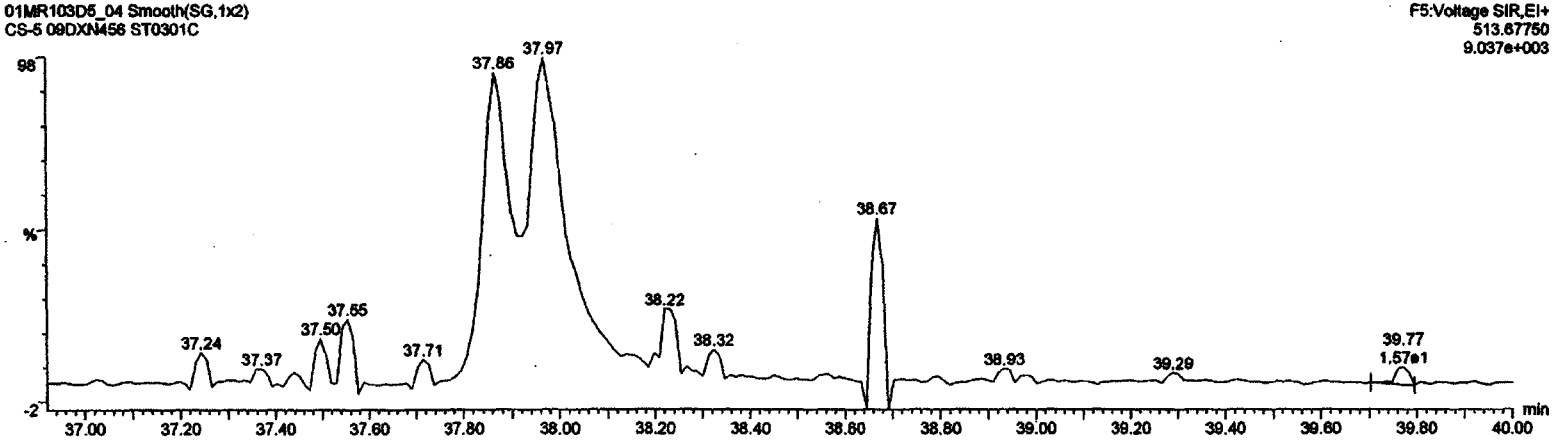
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

OCDFs



OCDF PCDPE



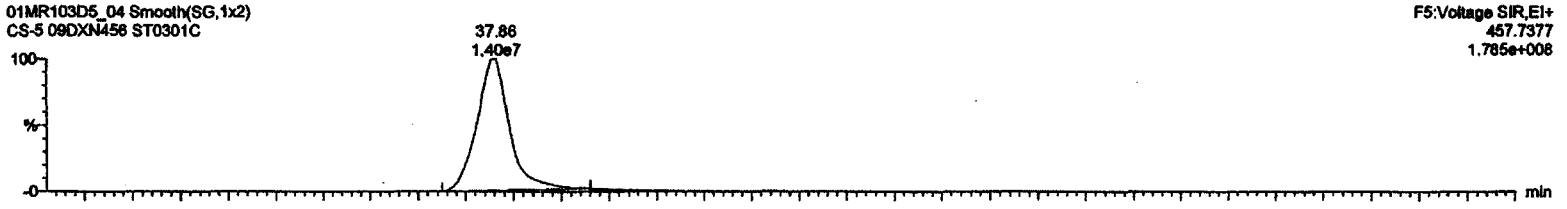
Quantify Sample Report **MassLynx 4.1**

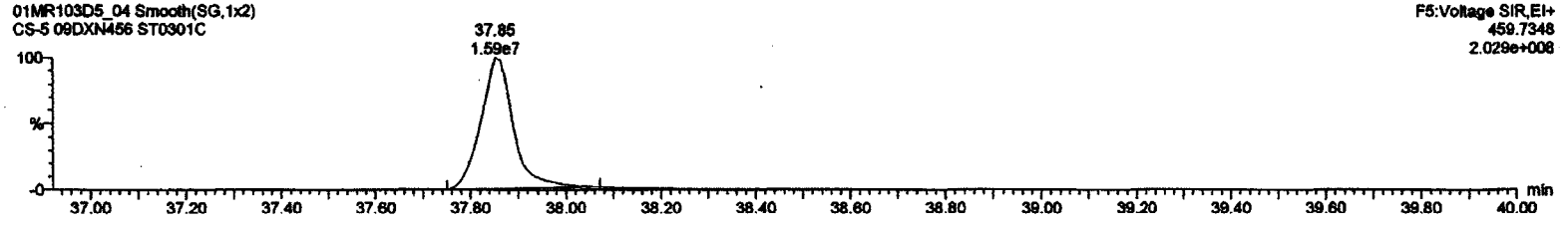
Dataset: C:\MassLynx\JAN2010.PRO\CA030120103D51613.qld

Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

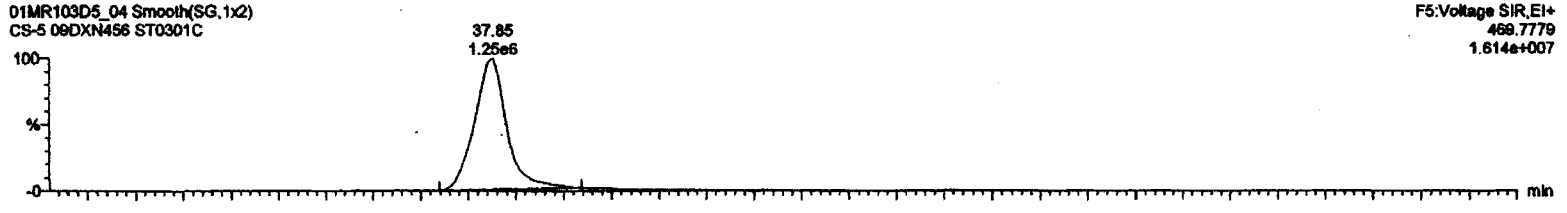
Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

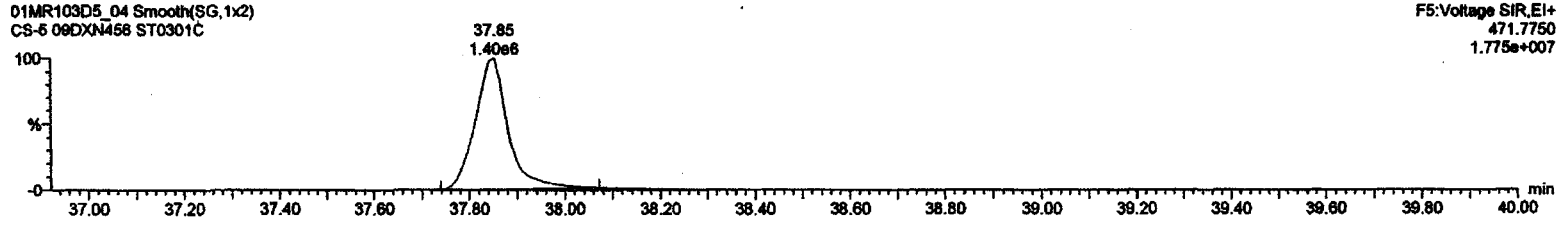
OCDD





13C-OCDD





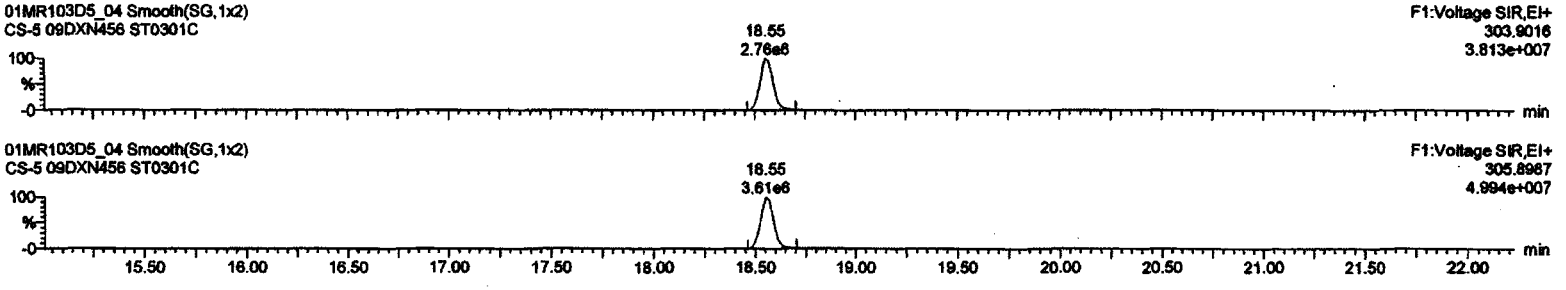
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

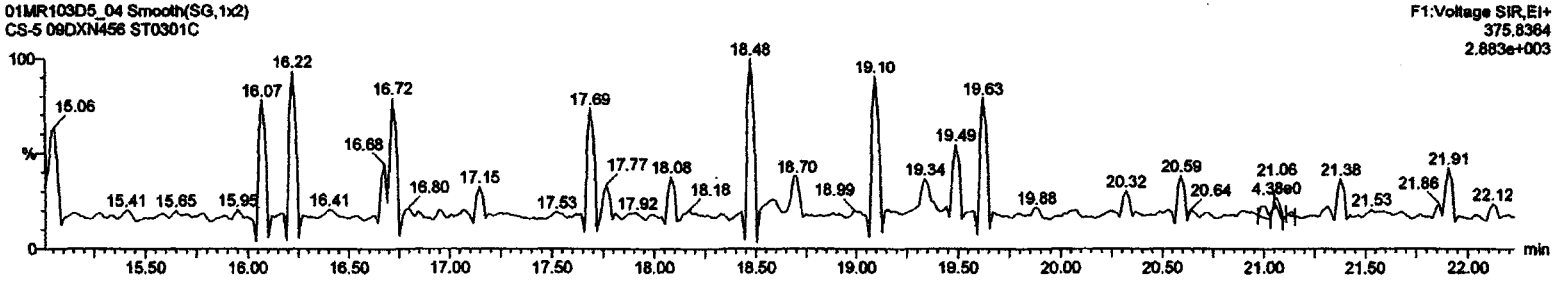
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

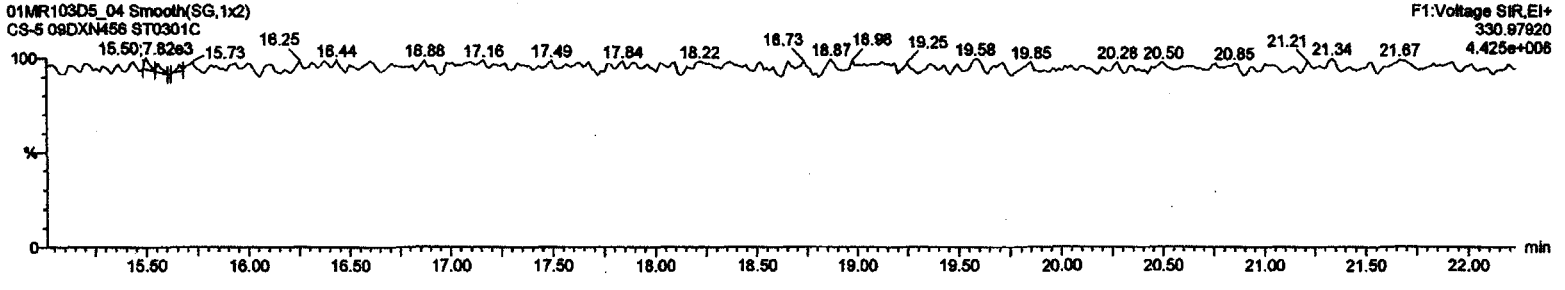
TCDFs



TCDF PCDPE



Function 1 PFK



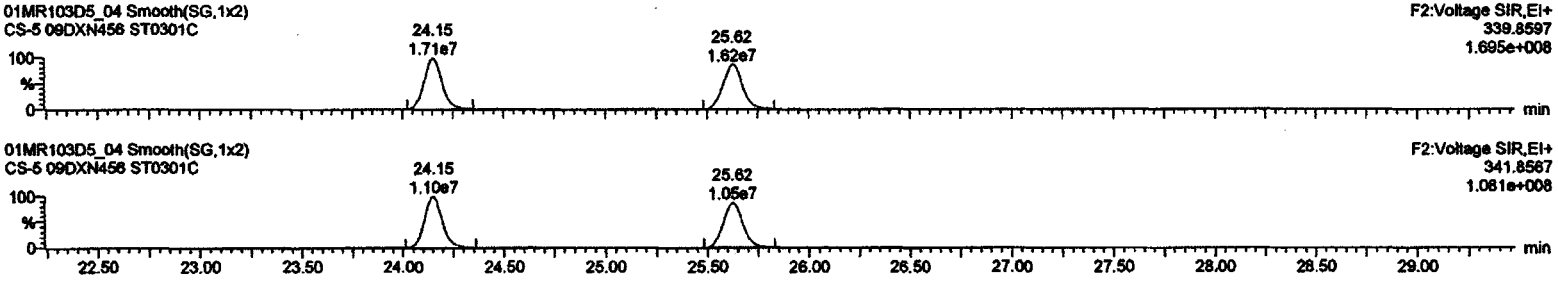
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

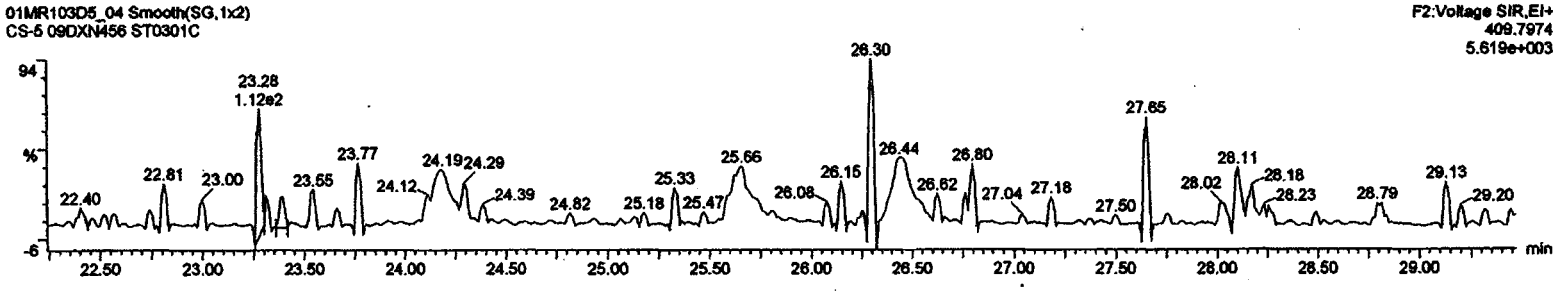
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

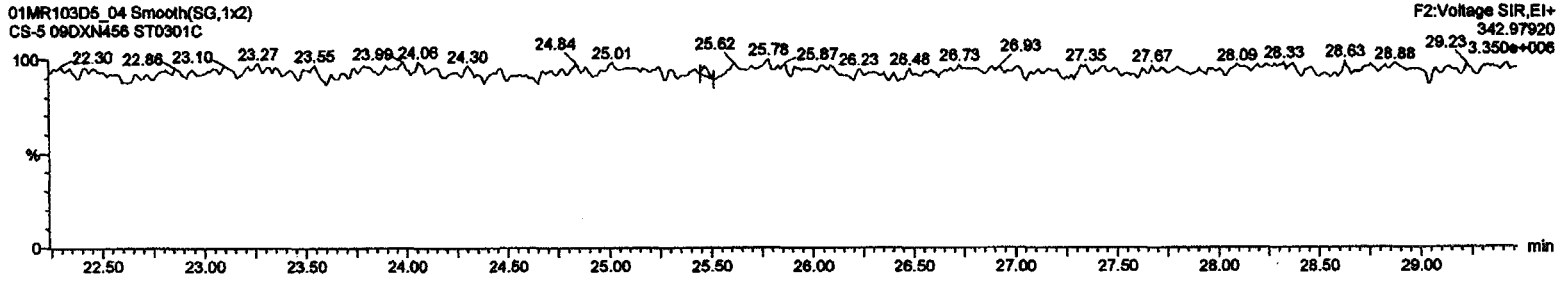
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



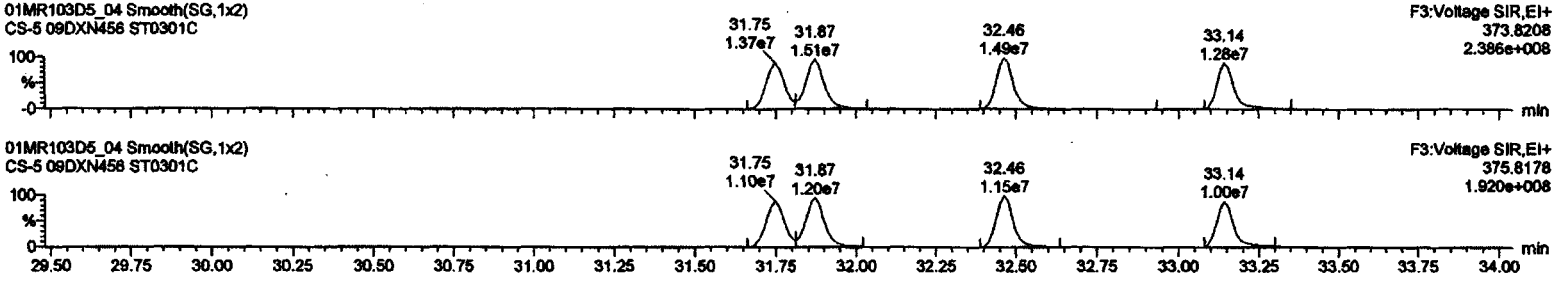
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

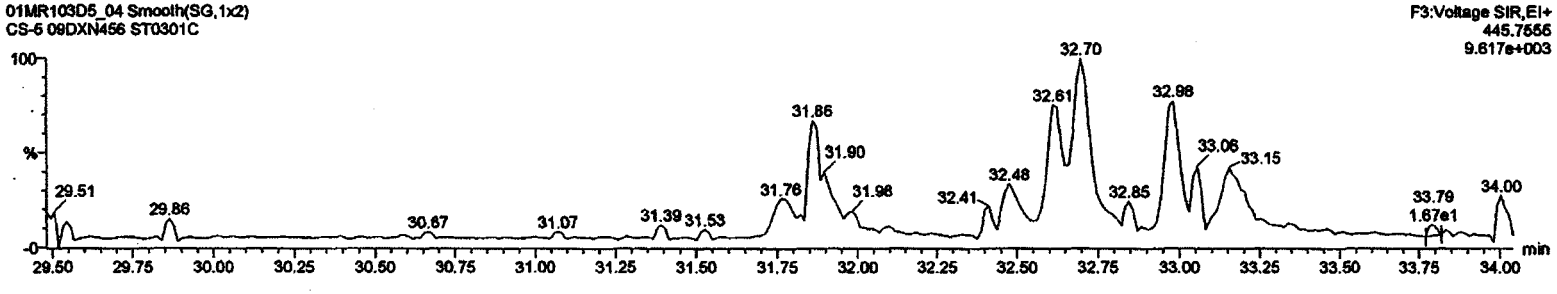
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

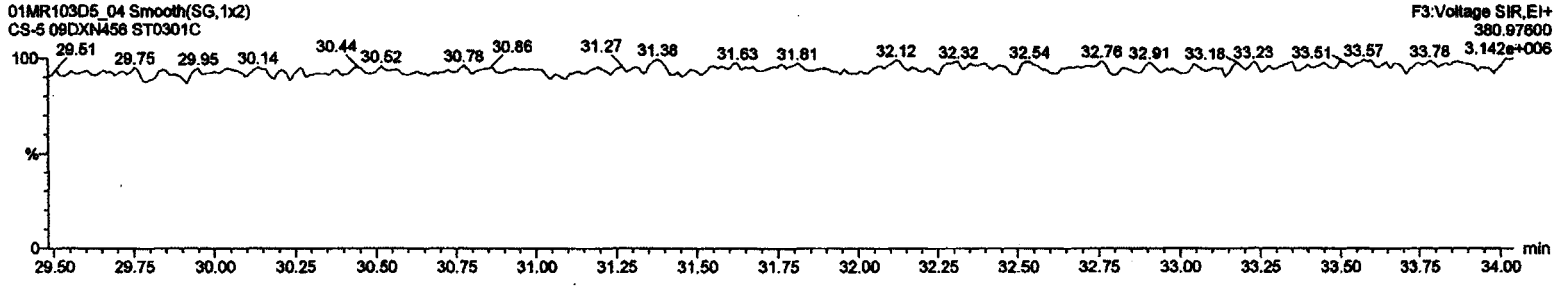
HxCDFs



HxCDF PCDPE



Function 3 PFK



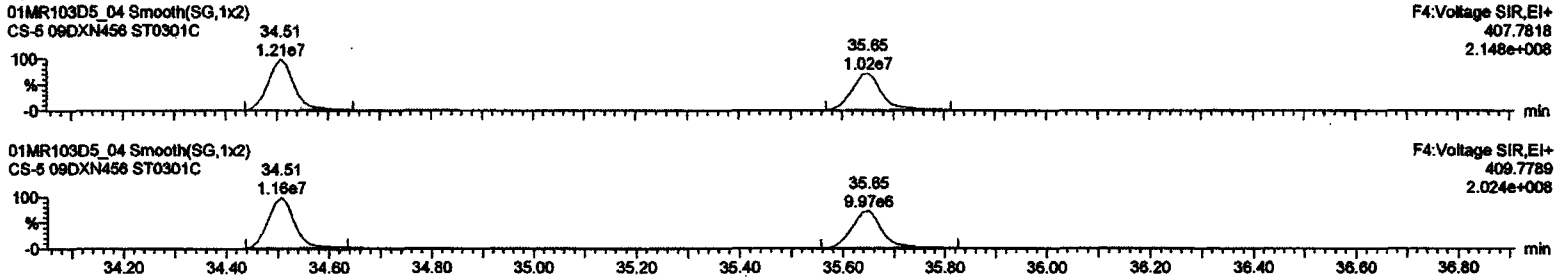
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

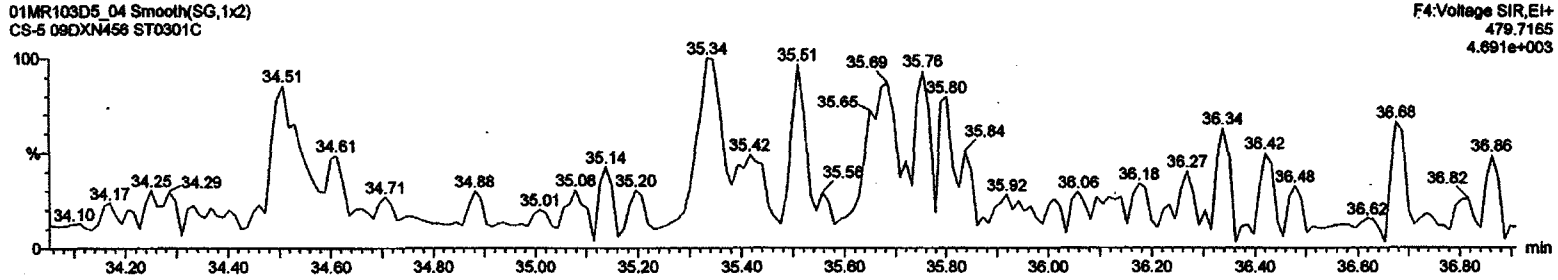
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

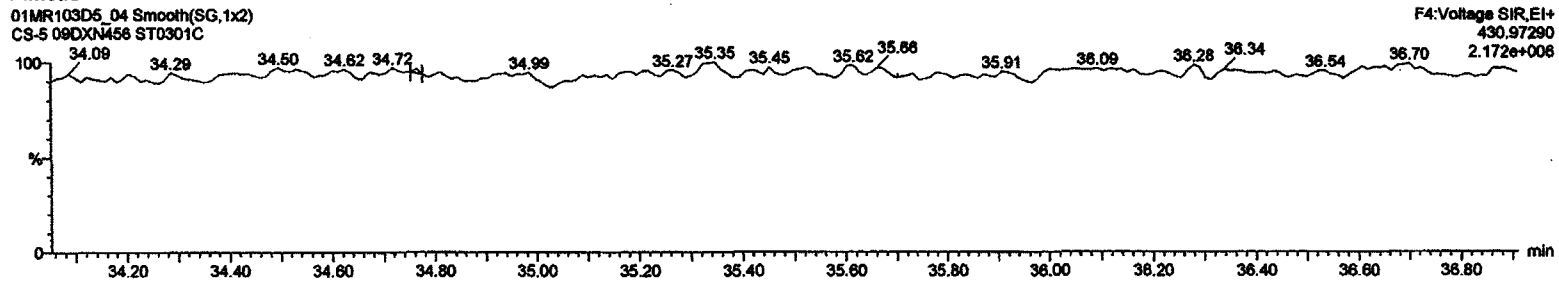
HpCDFs



HpCDF PCDPE



Function 4 PFK



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D51613.qld

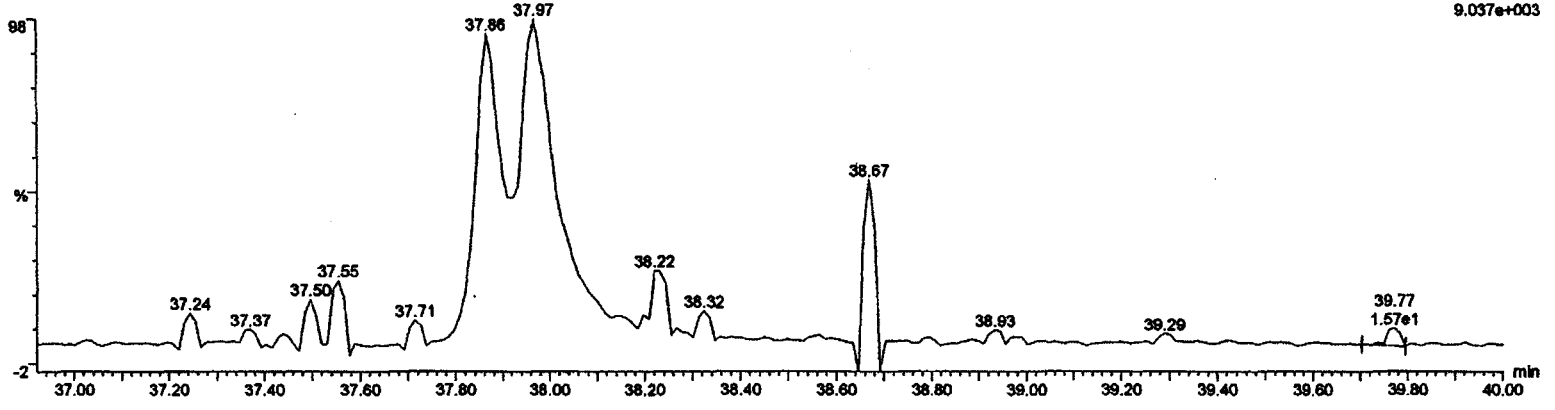
Last Altered: Monday, March 01, 2010 14:19:07 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:49 Pacific Standard Time

Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

OCDF PCDPE

01MR103D5_04 Smooth(SG,1x2)
CS-5 09DXN456 ST0301C

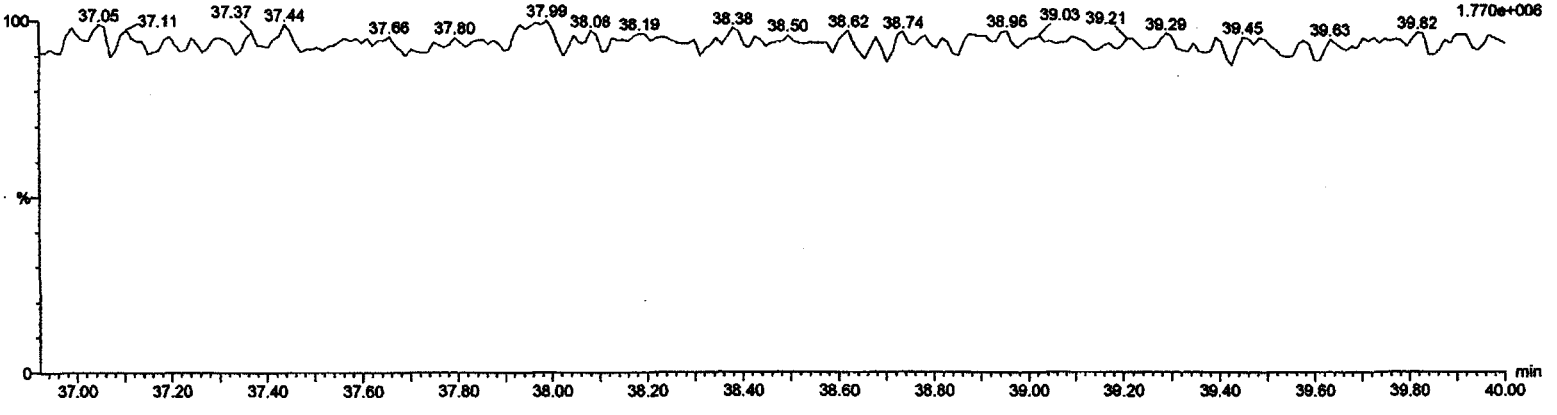
F5:Voltage SIR,EI+
513.67750
9.037e+003



Function 5 PFK

01MR103D5_04 Smooth(SG,1x2)
CS-5 09DXN456 ST0301C

F5:Voltage SIR,EI+
442.97280
1.770e+006



Quantify Sample Report **MassLynx 4.1**

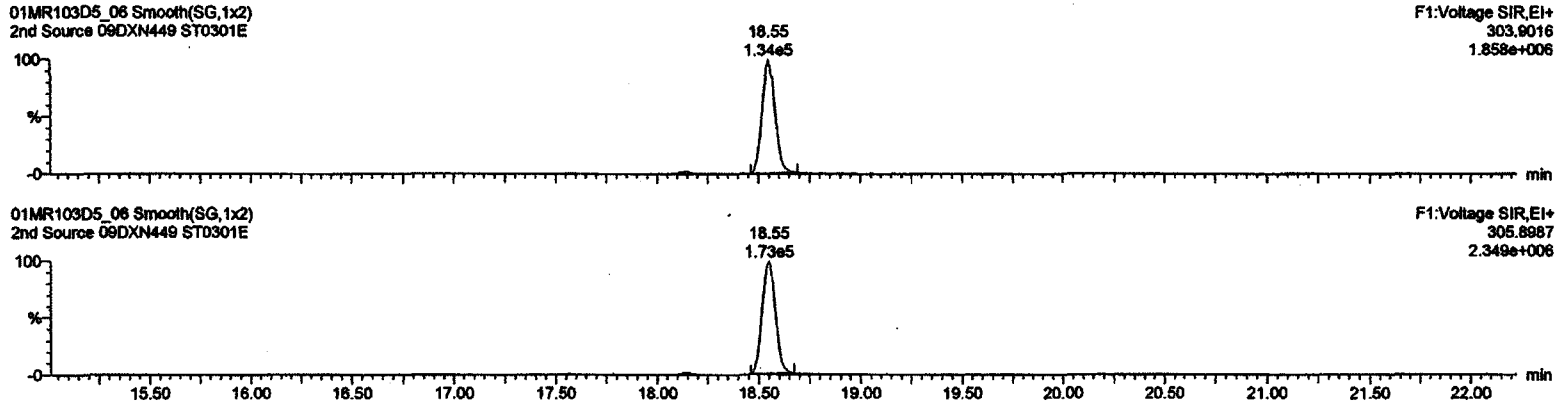
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

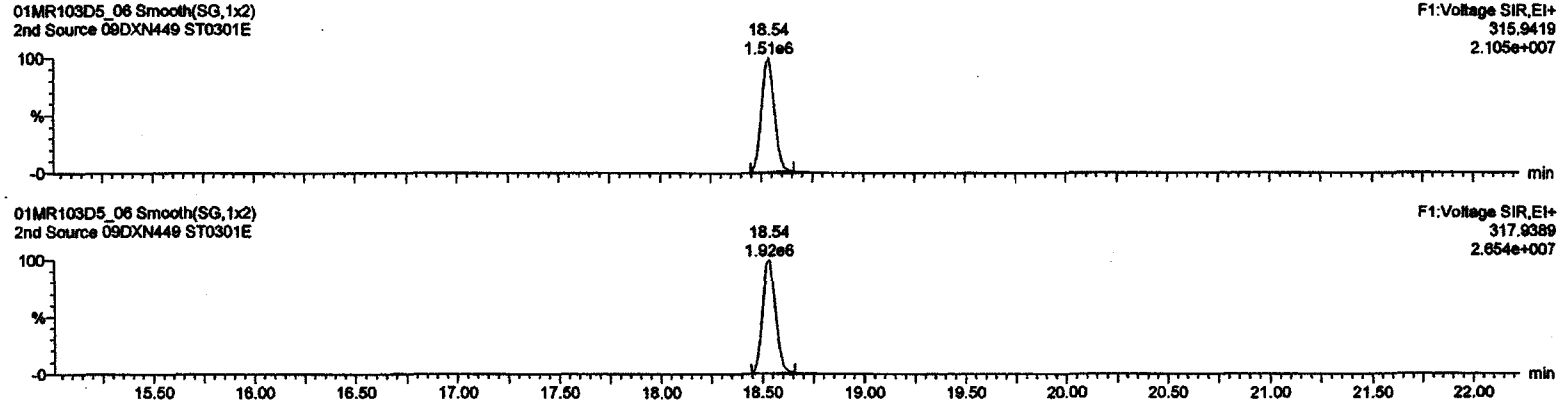
Method: C:\MassLynx\JAN2010.PRO\MethDB\16133D5.mdb 01 Mar 2010 14:17:18
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D51613.cdb 01 Mar 2010 14:19:06

Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

TCDFs



13C-TCDF



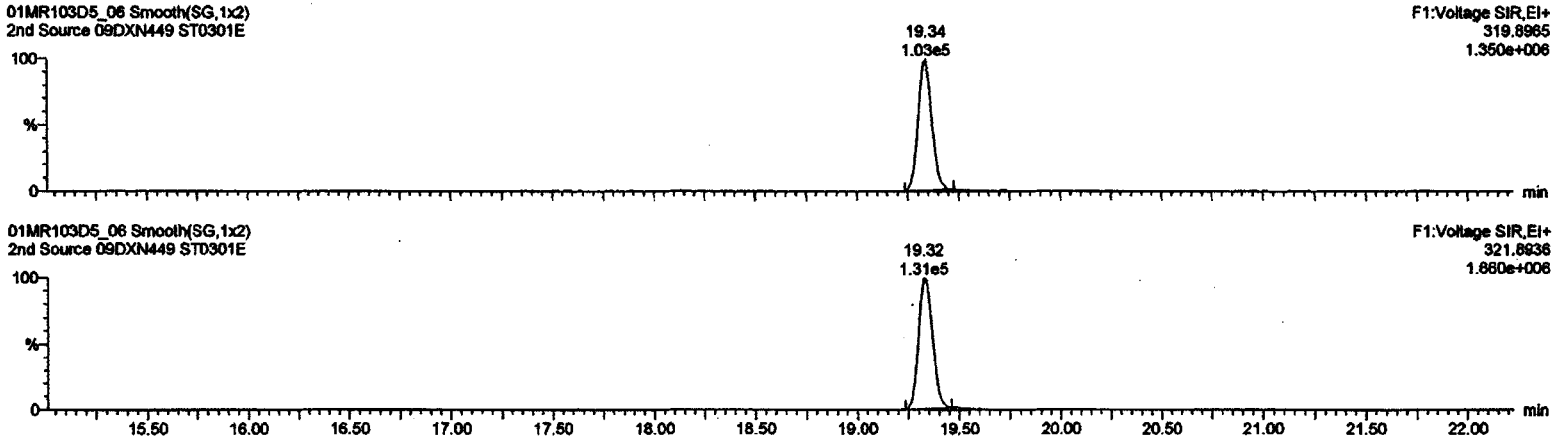
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

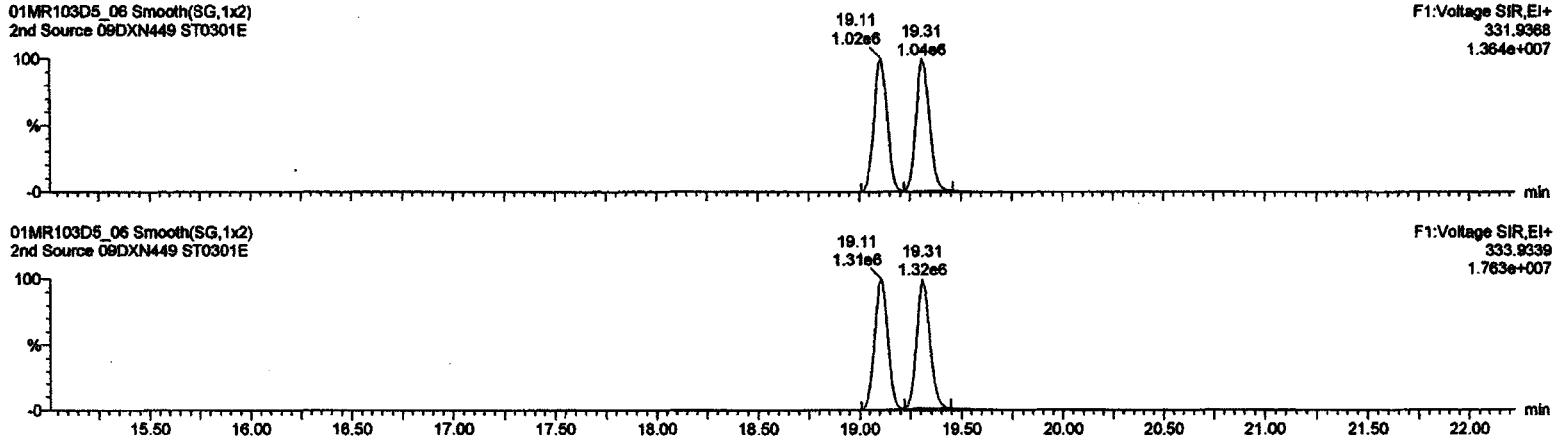
Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

TCDDs



13C-TCDDs



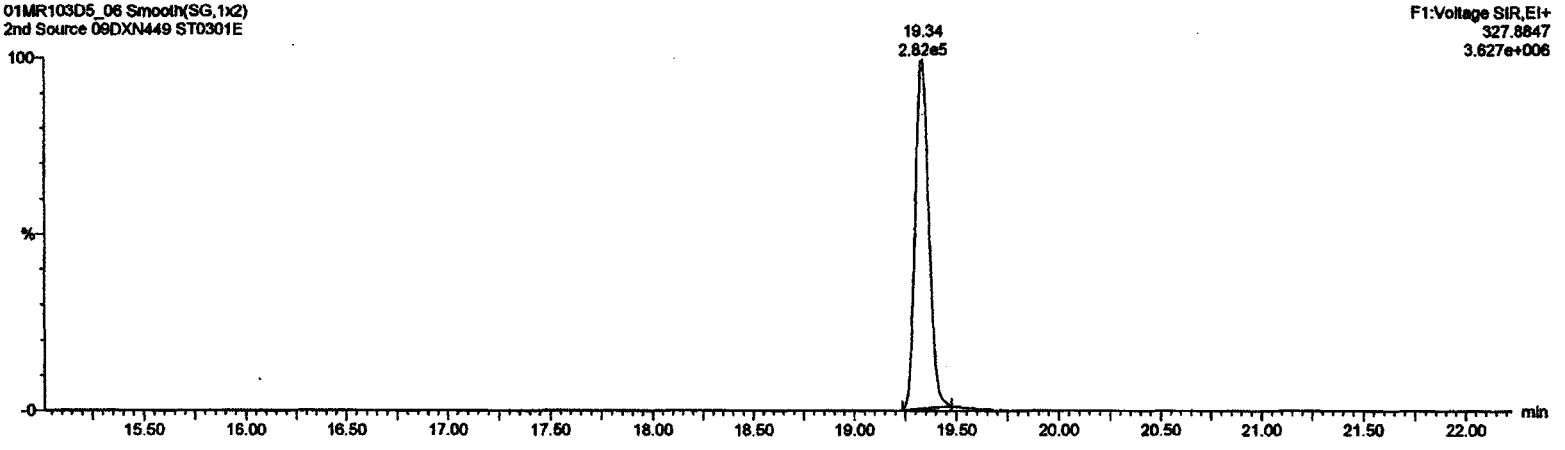
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

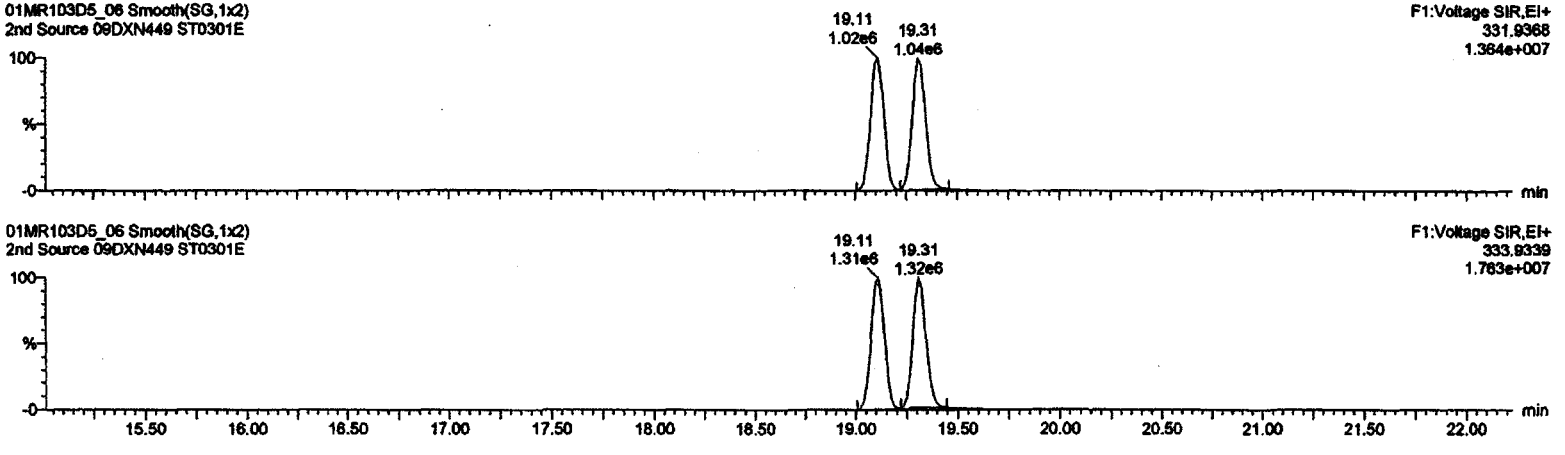
Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

37CL-2,3,7,8-TCDD



13C-TCDDs



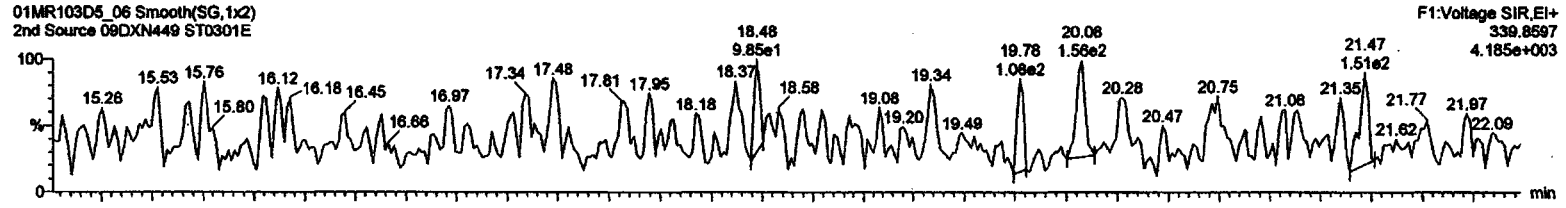
Quantify Sample Report **MassLynx 4.1**

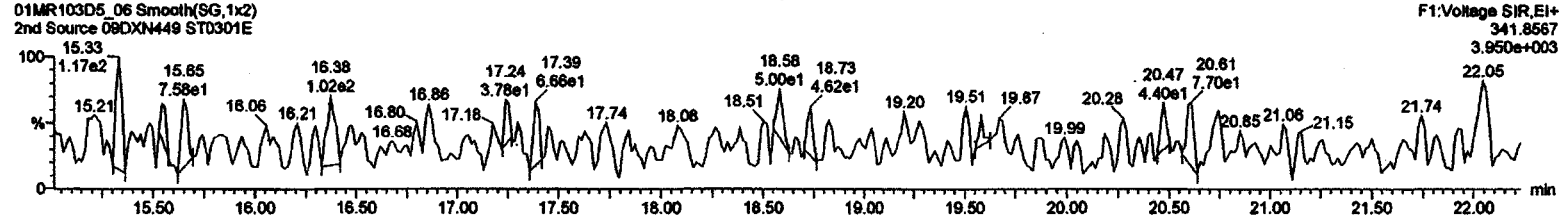
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

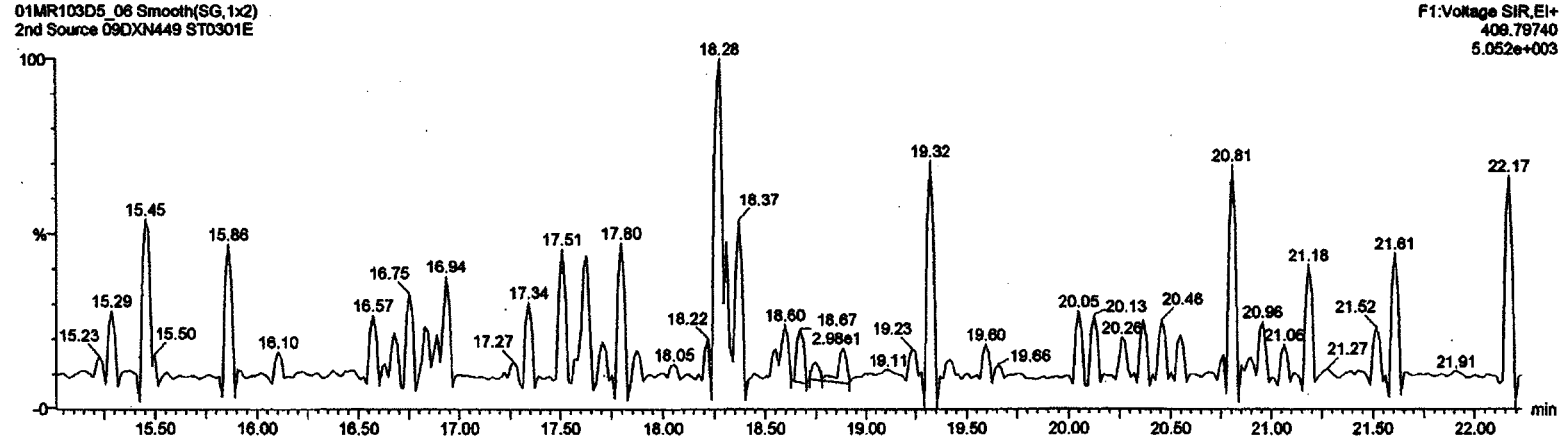
Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

F1 PeCDFs





F1 PeCDF PCDPE



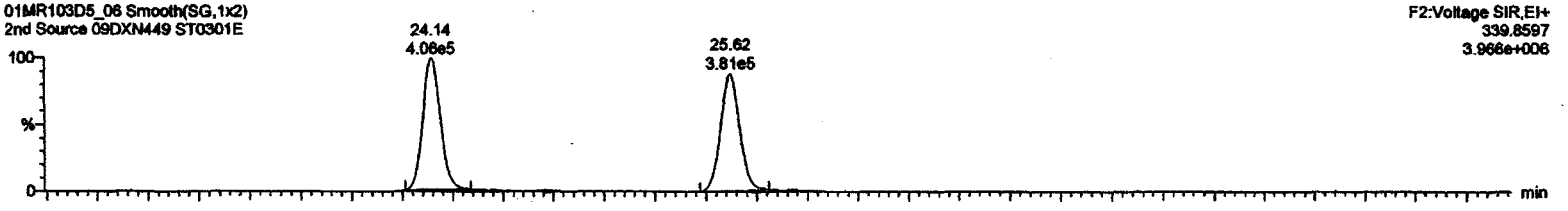
Quantify Sample Report **MassLynx 4.1**

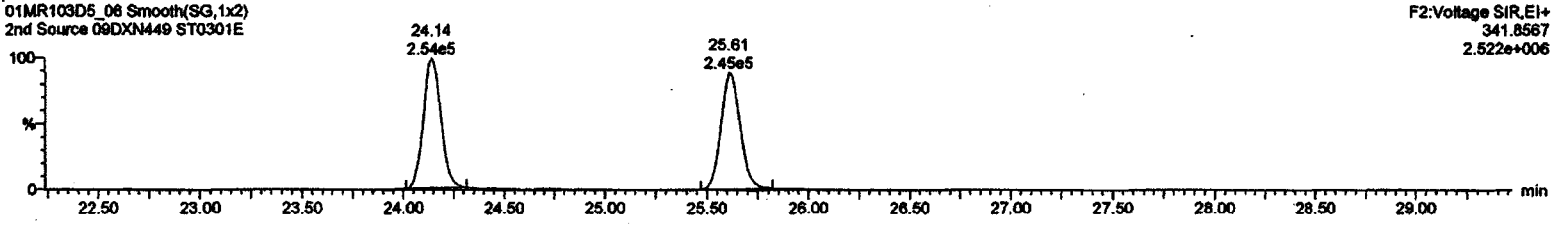
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

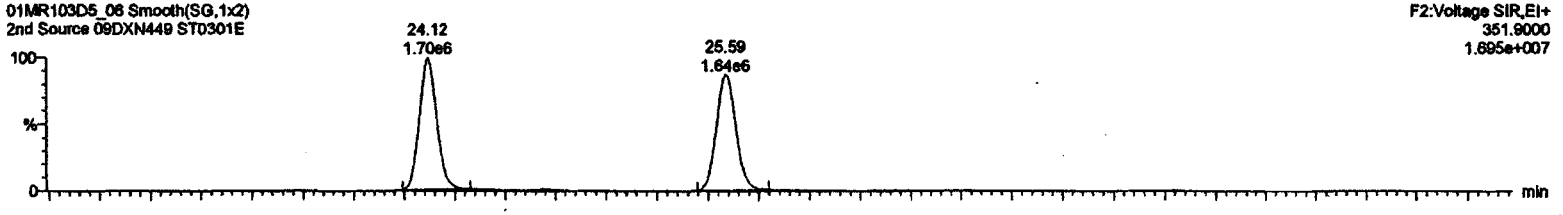
Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

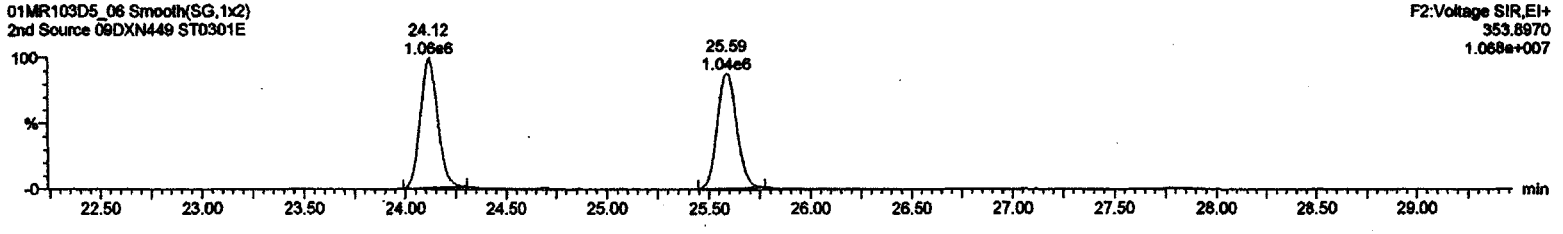
PeCDFs





13C-PeCDFs





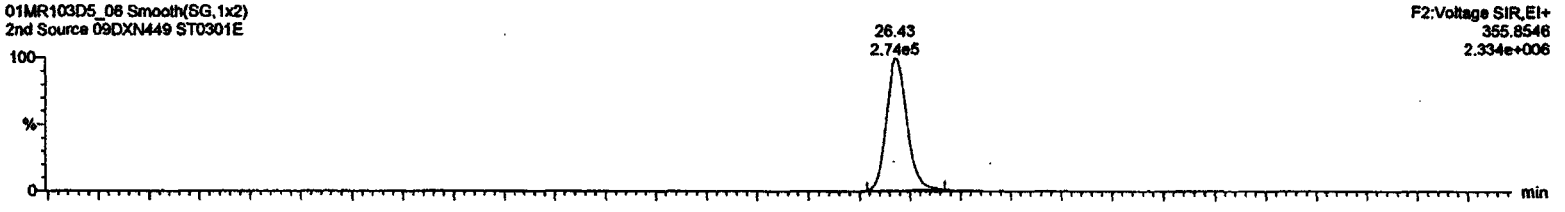
Quantify Sample Report **MassLynx 4.1**

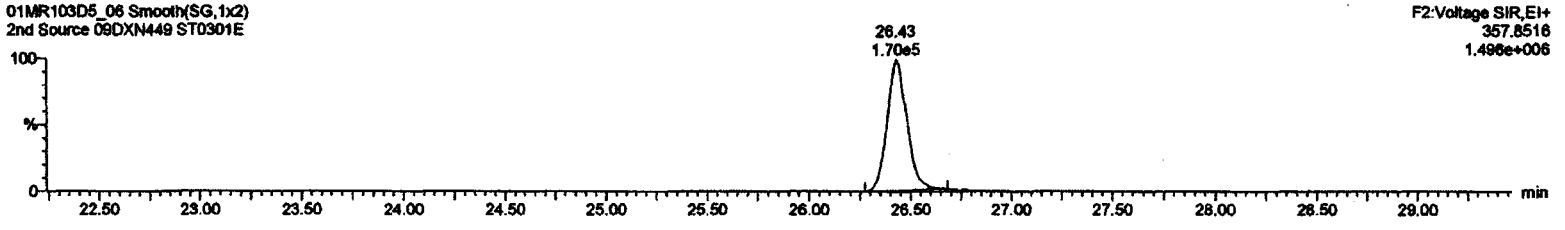
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

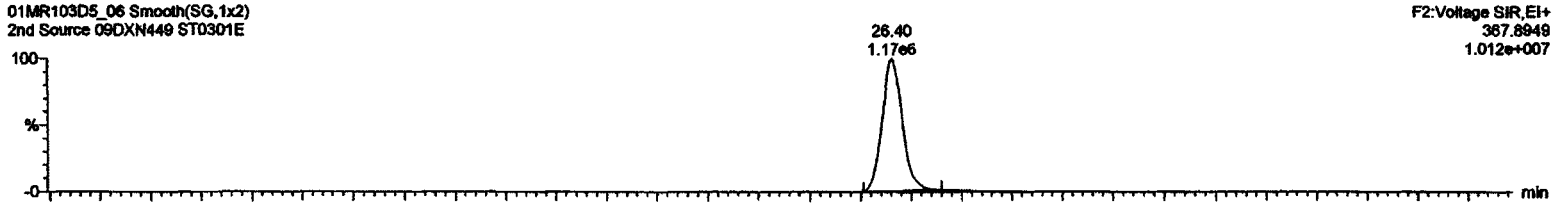
Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

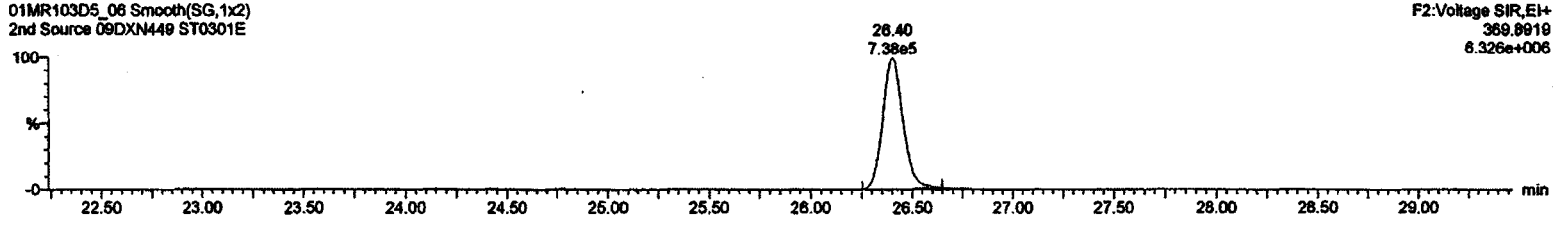
PeCDDs





13C-PeCDD





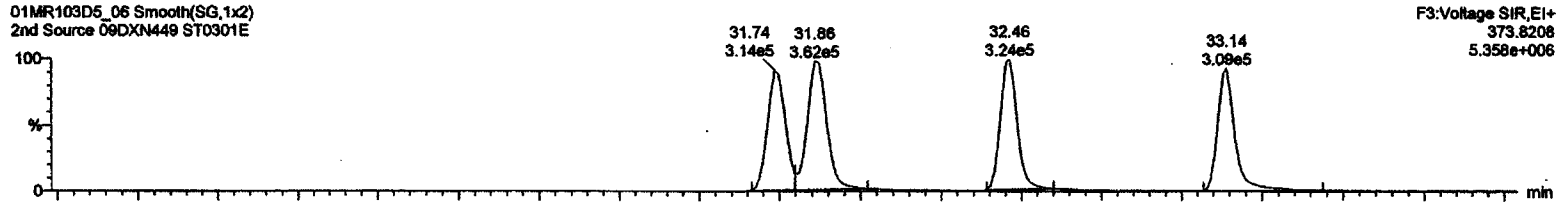
Quantify Sample Report **MassLynx 4.1**

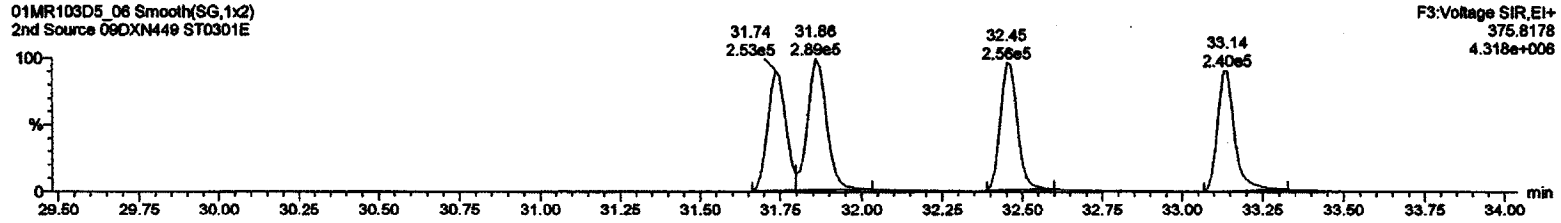
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

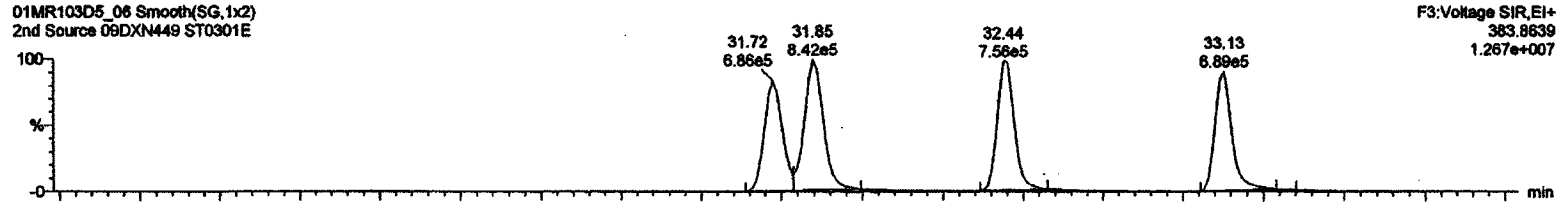
Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

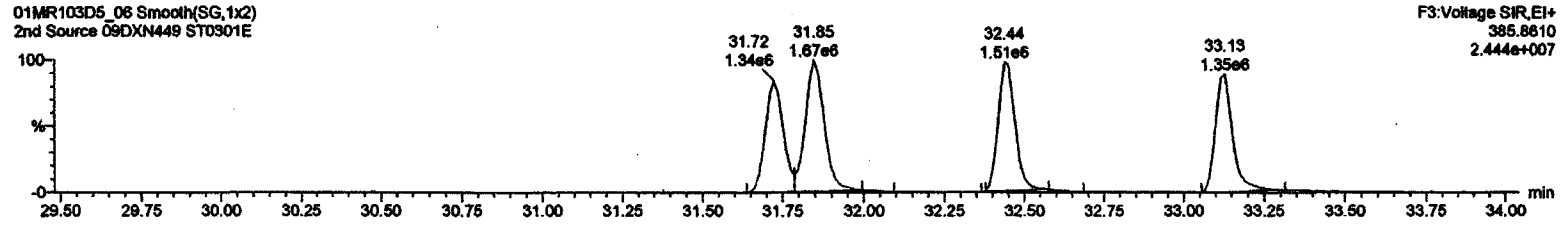
HxCDFs





13C-HxCDFs





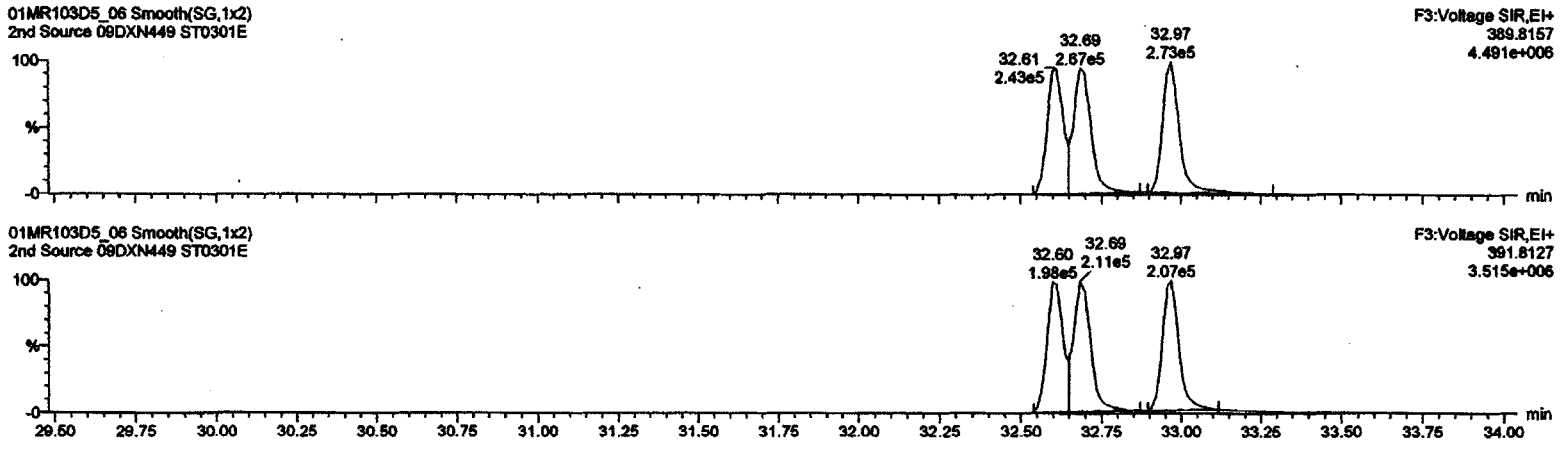
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

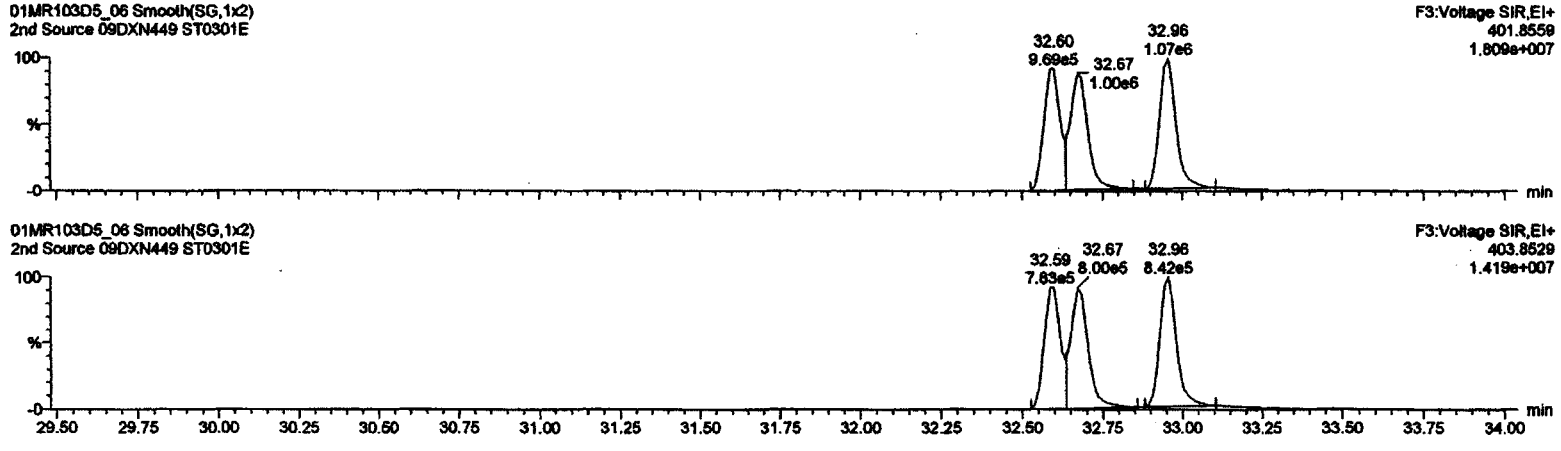
Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

HxCDDs



13C-HxCDDs



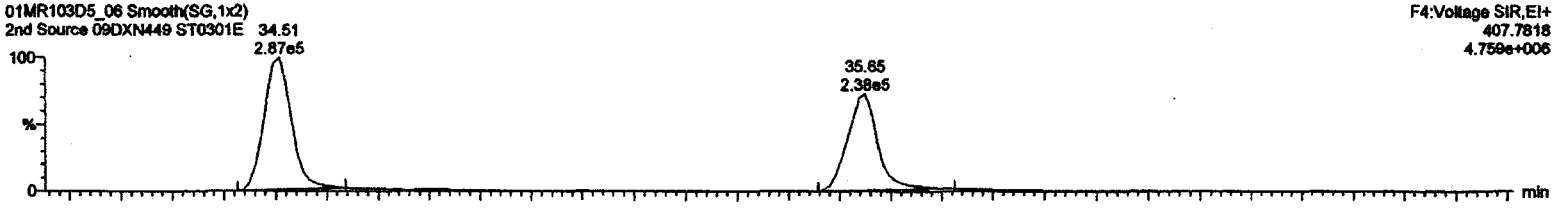
Quantify Sample Report **MassLynx 4.1**

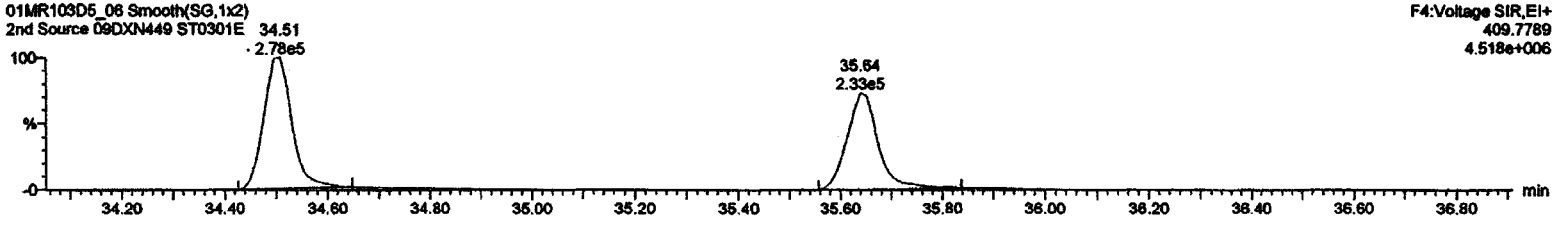
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

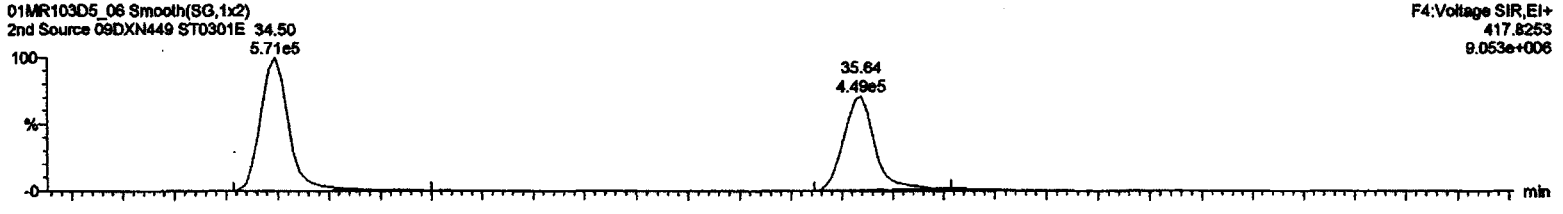
Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

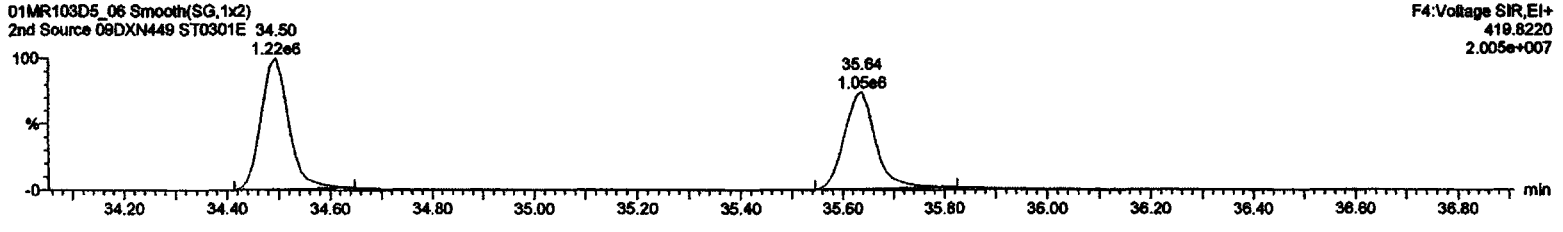
HpCDFs





13C-HpCDFs





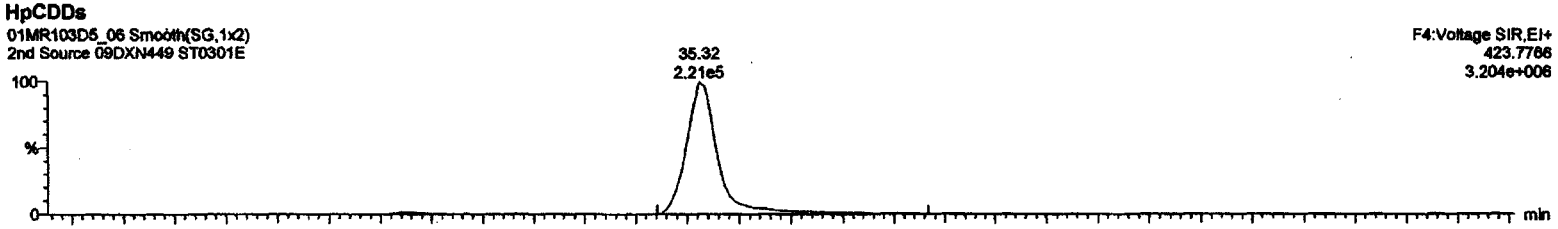
Quantify Sample Report **MassLynx 4.1**

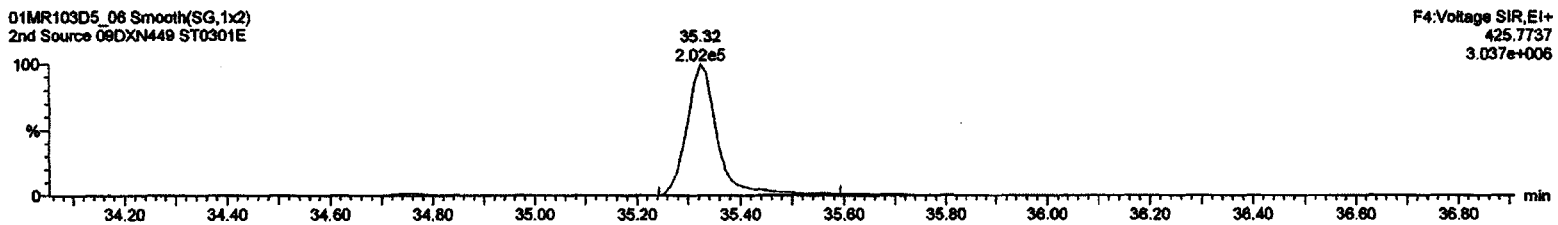
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

HpCDDs





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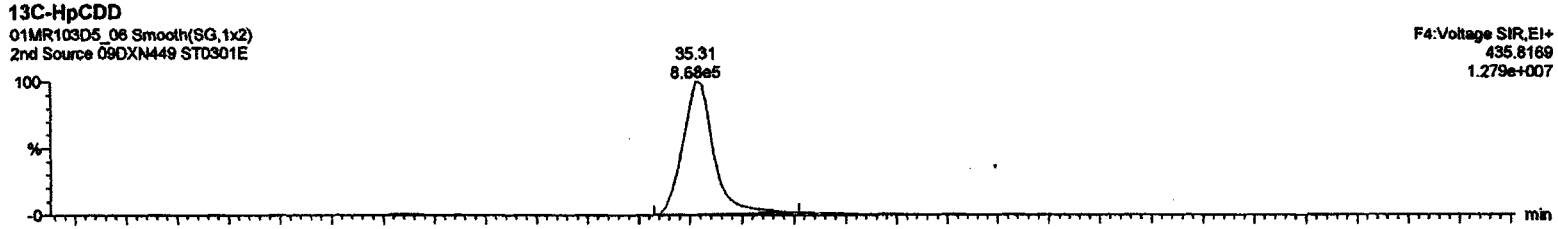
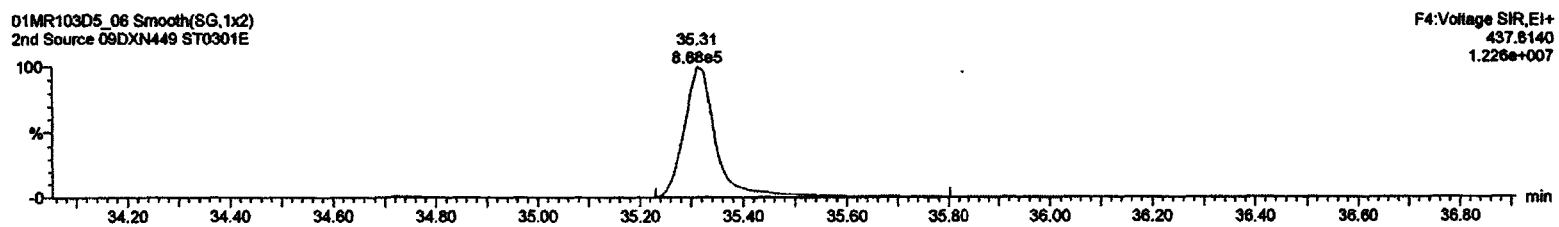




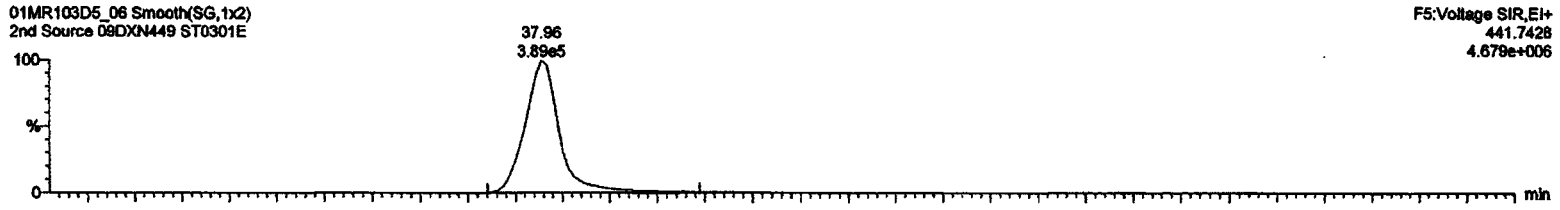
Quantify Sample Report **MassLynx 4.1**

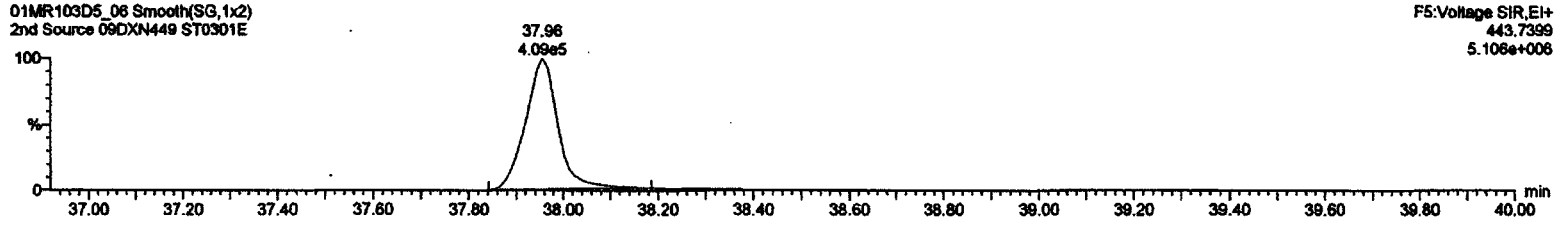
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

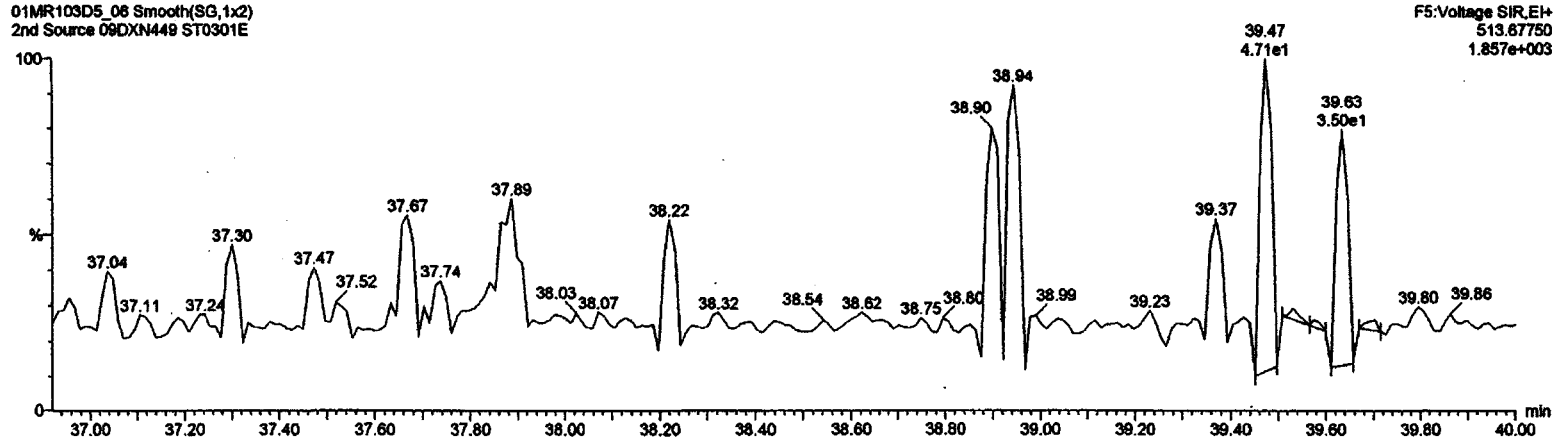
Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

OCDFs





OCDF PCDPE



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

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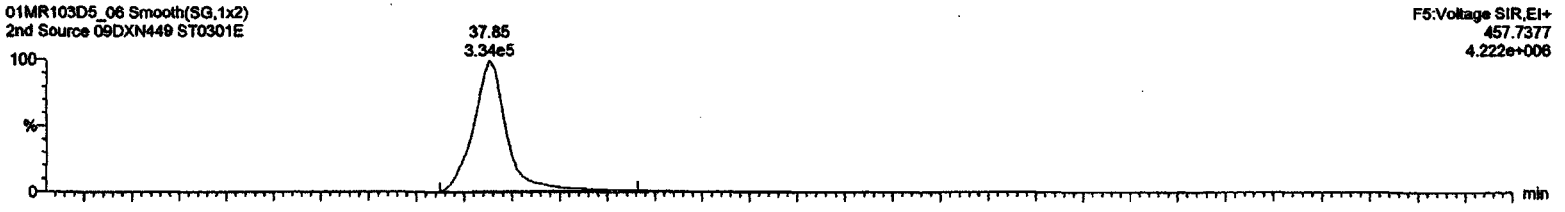

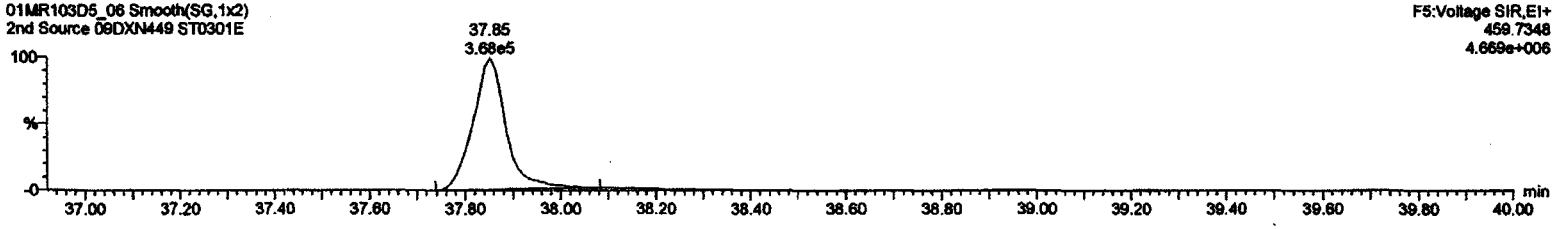

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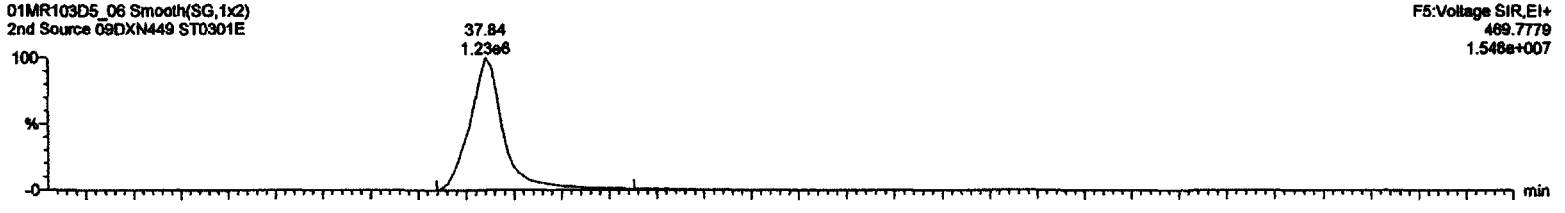
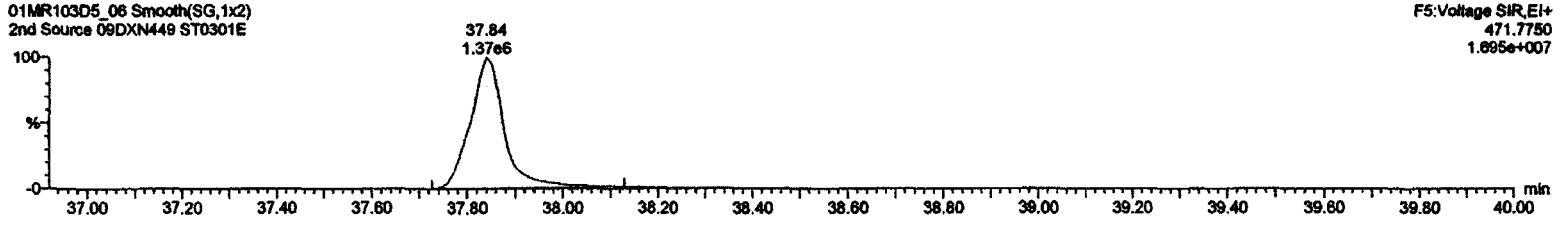




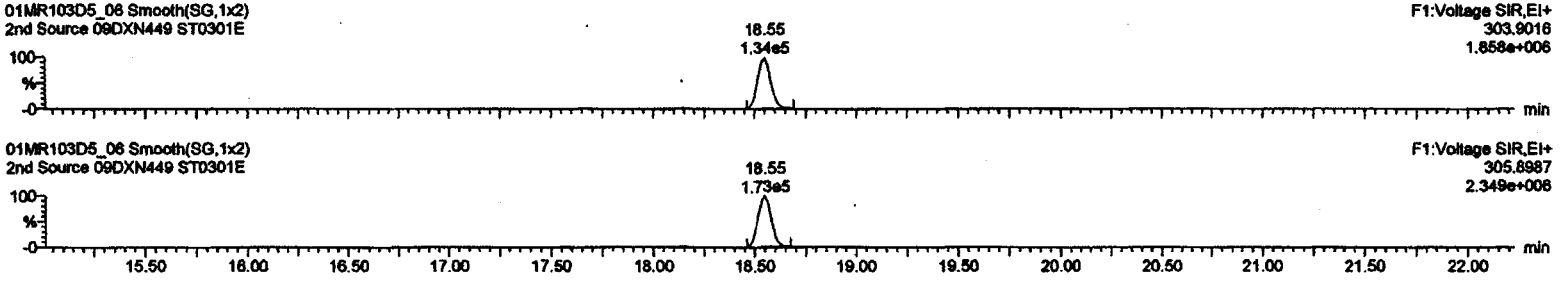
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

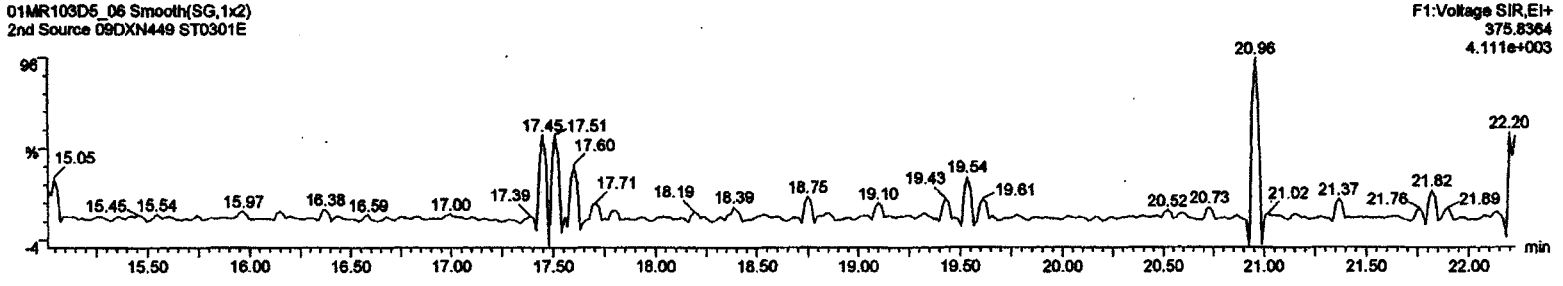
Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

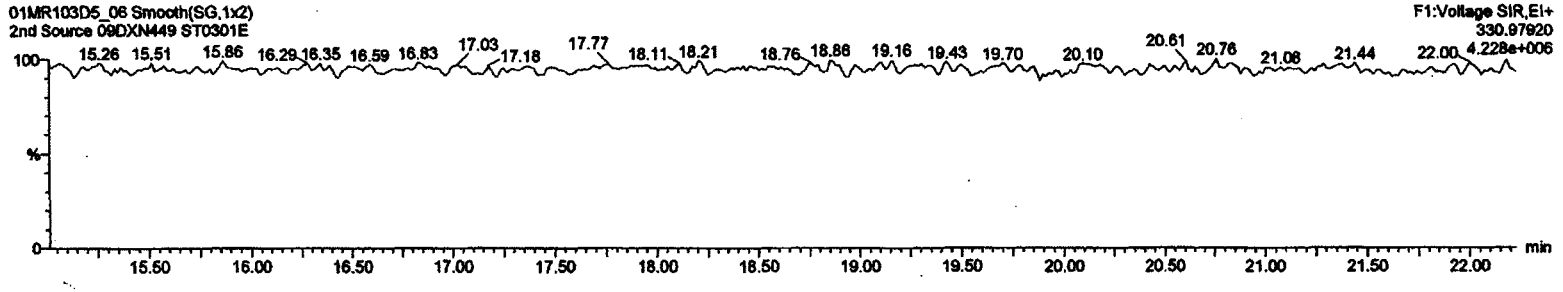
TCDFs



TCDF PCDPE



Function 1 PFK



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
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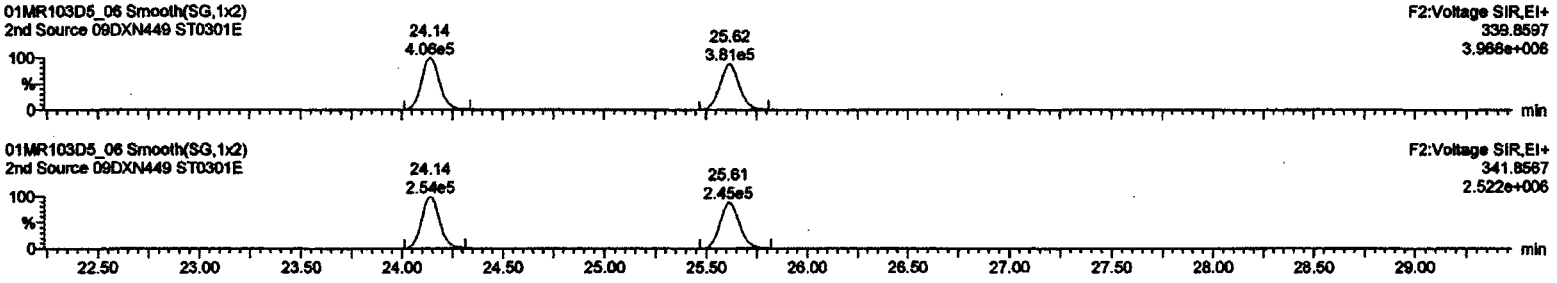
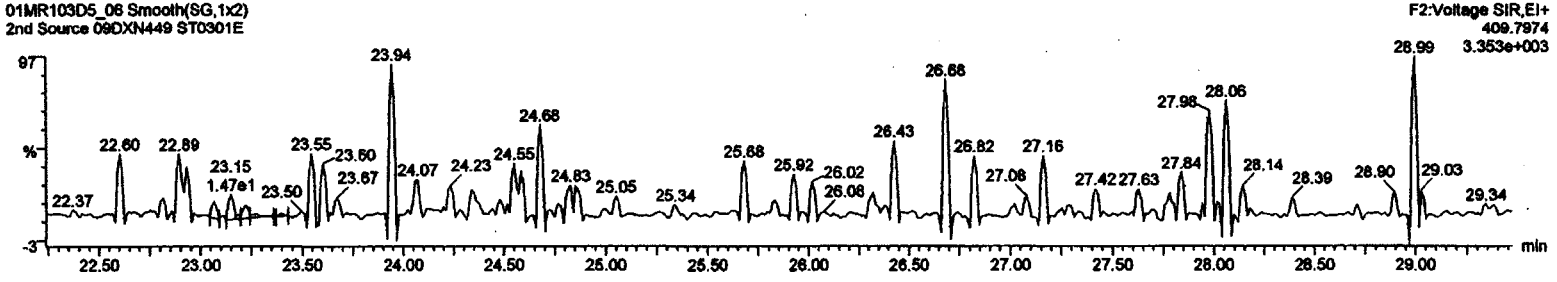
Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

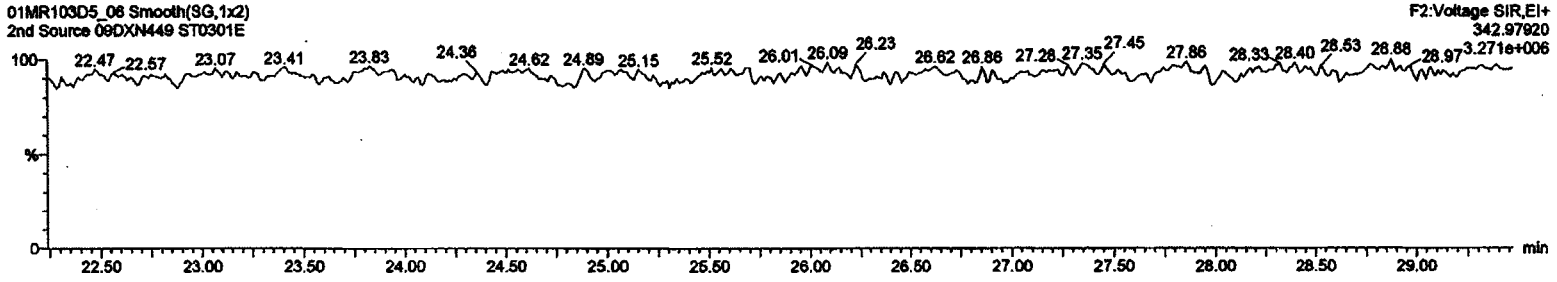
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



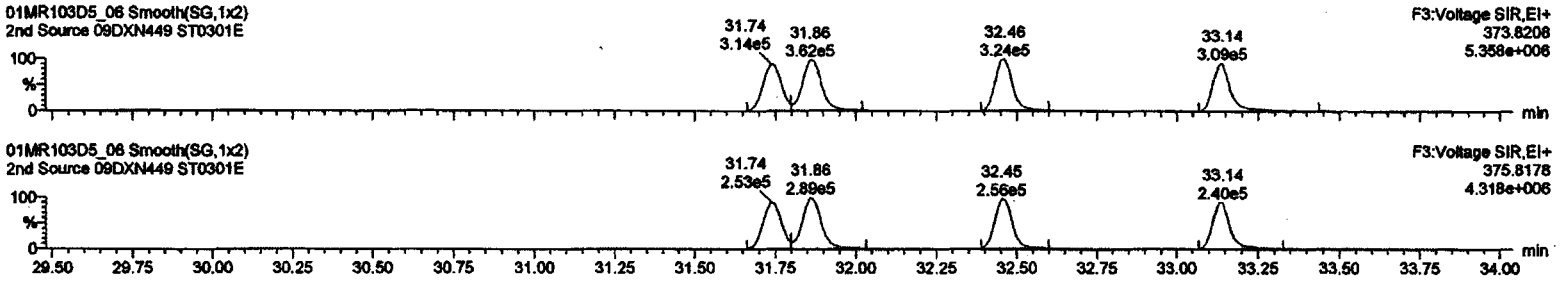
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

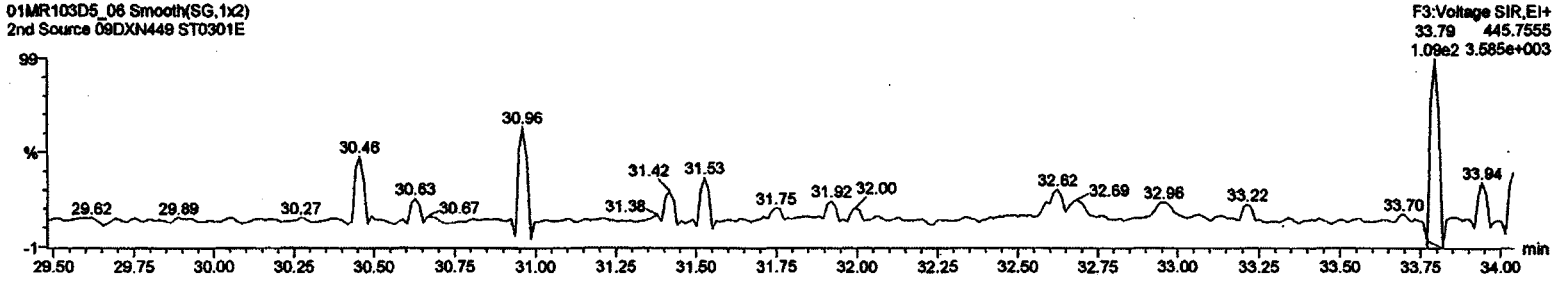
Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

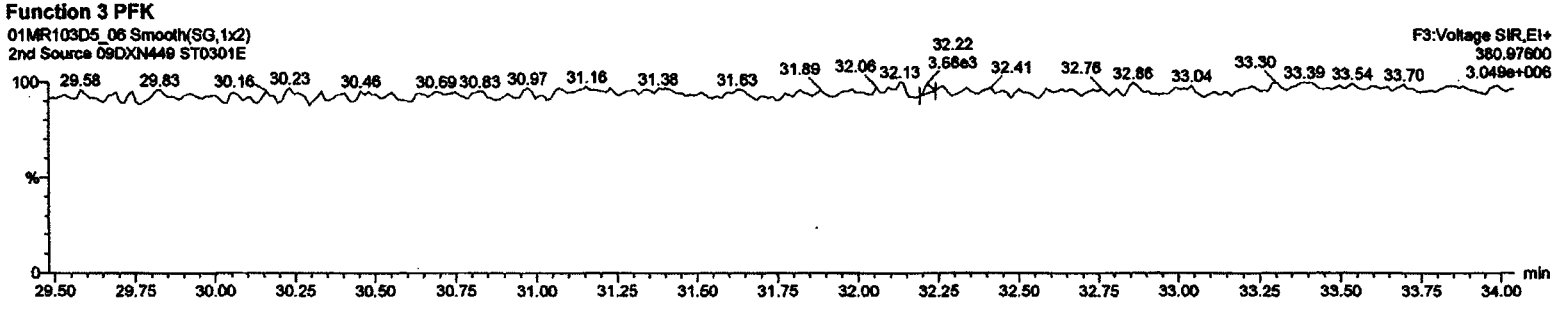
HxCDFs



HxCDF PCDPE



Function 3 PFK



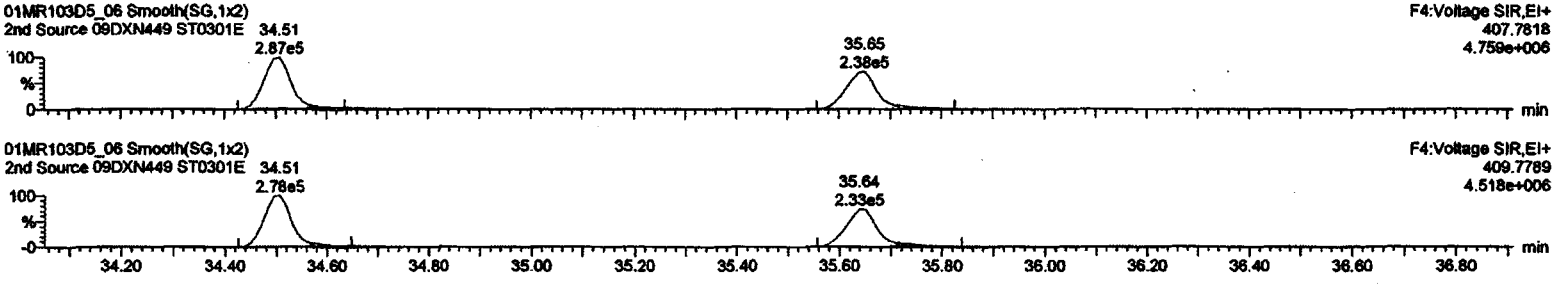
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

HpCDFs



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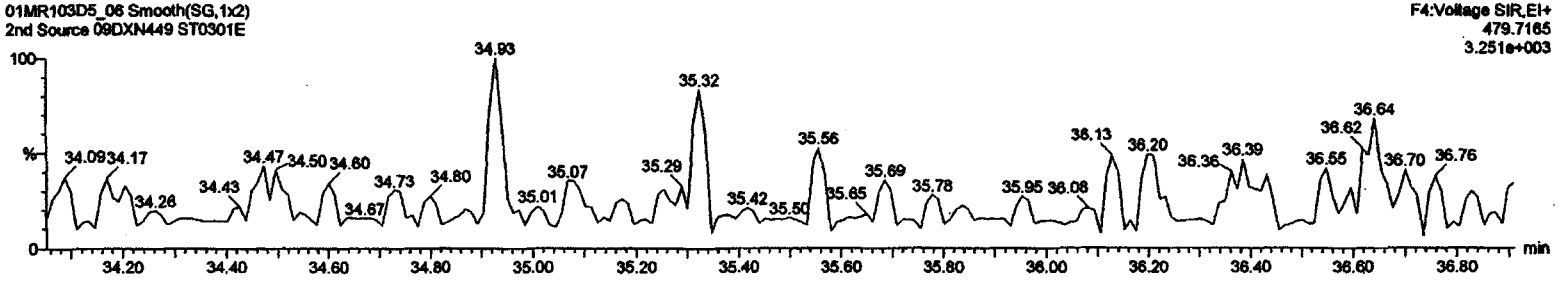
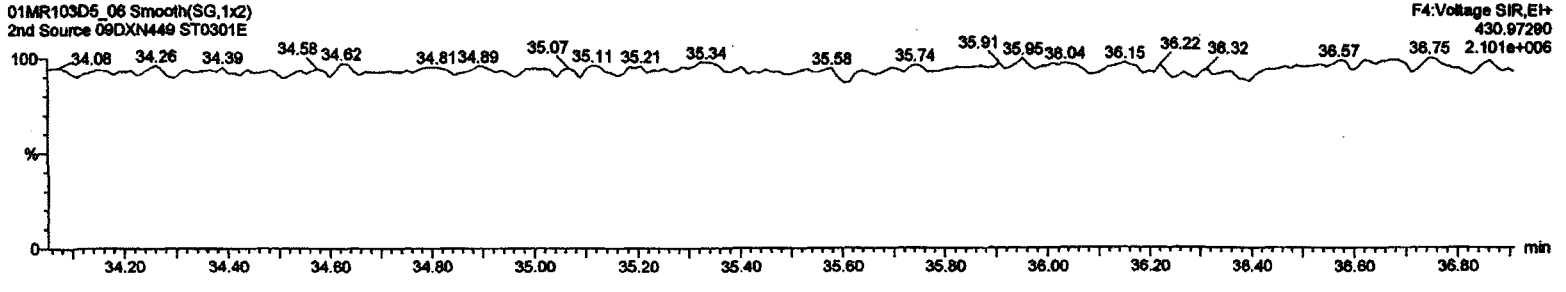


Function 4 PFK



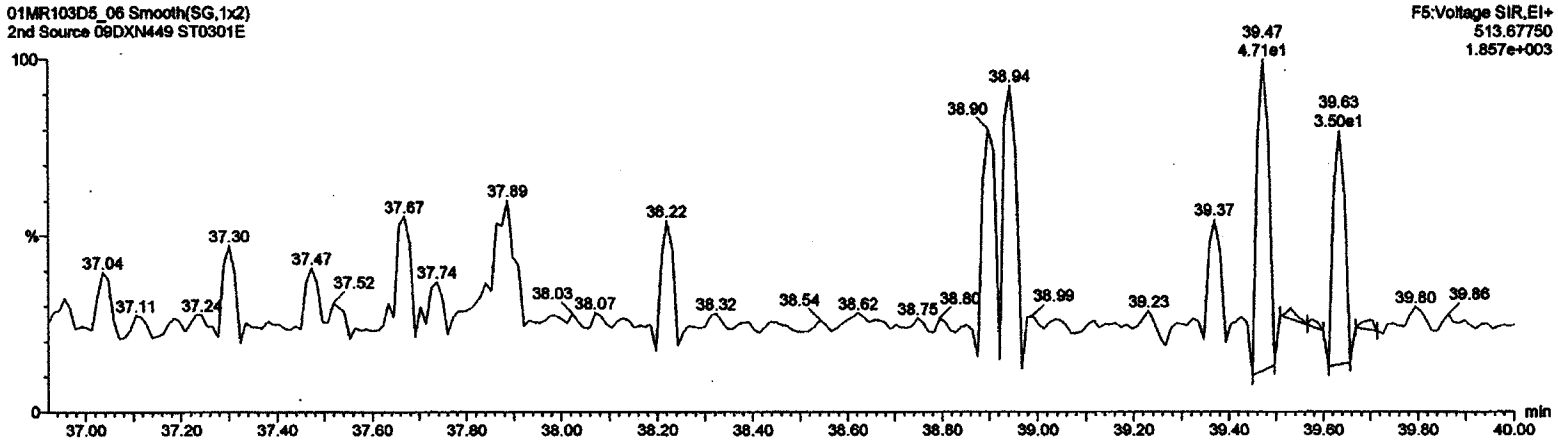
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:50 Pacific Standard Time

Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449

OCDF PCDPE



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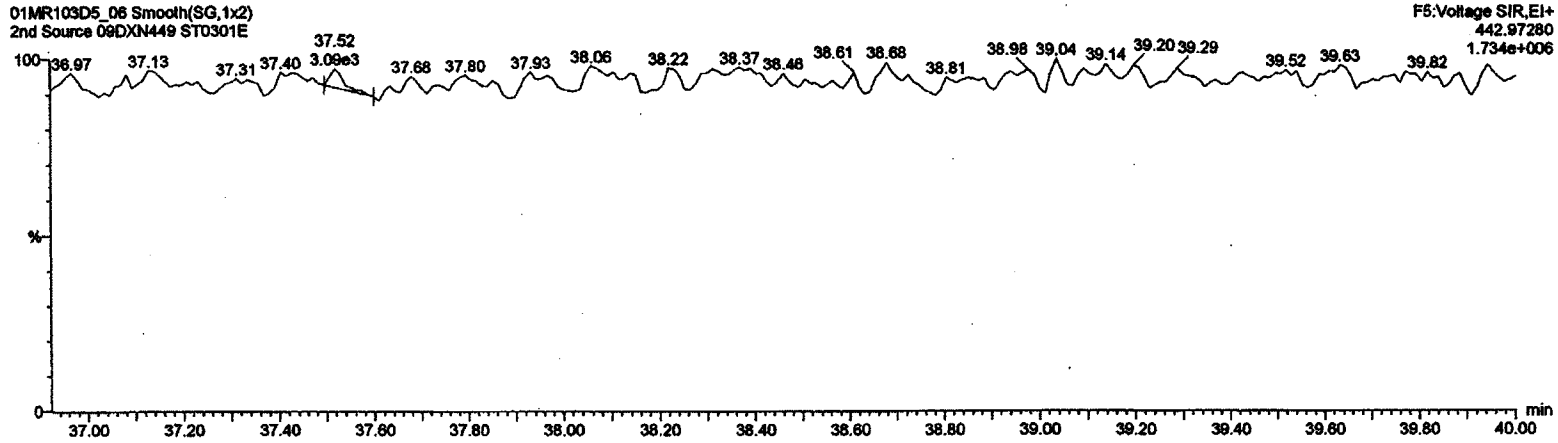


Quantify Sample Report **MassLynx 4.1**

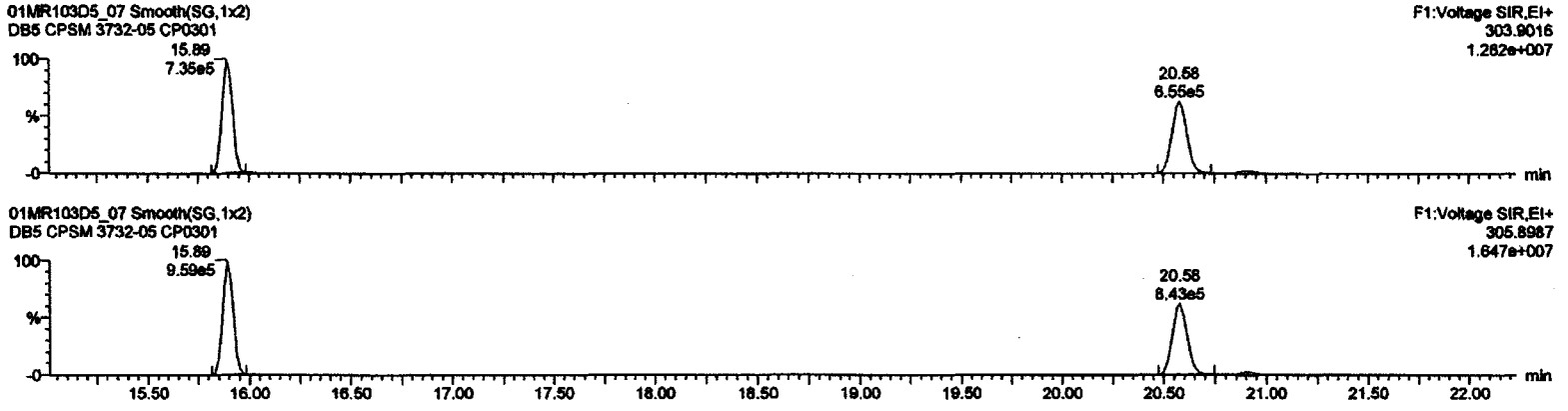
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 15:04:52 Pacific Standard Time
Printed: Monday, March 01, 2010 15:05:23 Pacific Standard Time

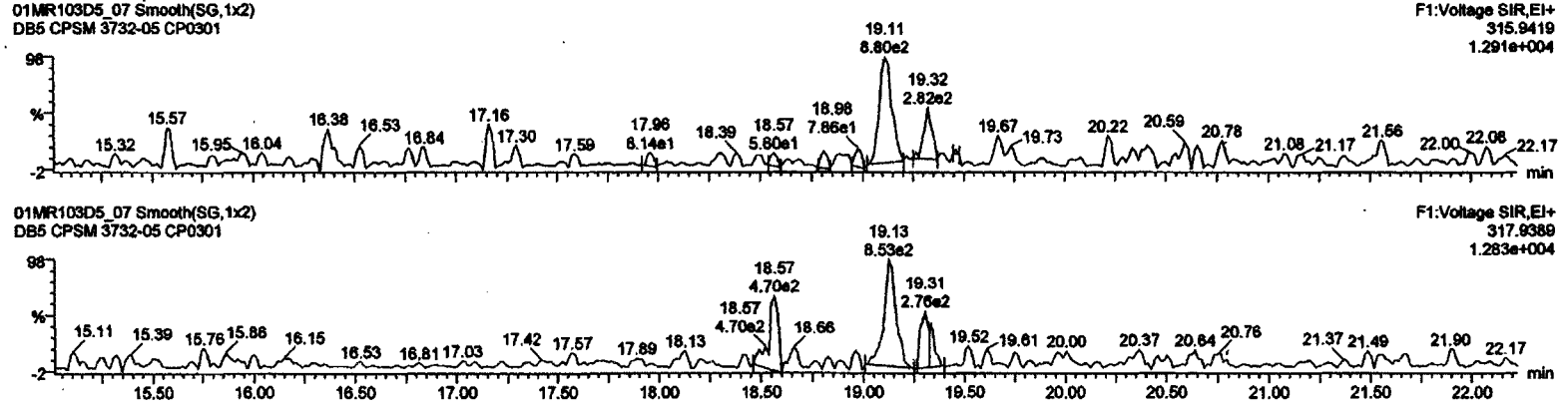
Method: C:\MassLynx\JAN2010.PRO\MethDB\16133D5.mdb 01 Mar 2010 14:17:18
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D51613.cdb 01 Mar 2010 14:19:06

Name: 01MR103D5_07, Date: 01-Mar-2010, Time: 14:23:03, ID: CP0301, Description: DB5 CPSM 3732-05

TCDFs



13C-TCDF



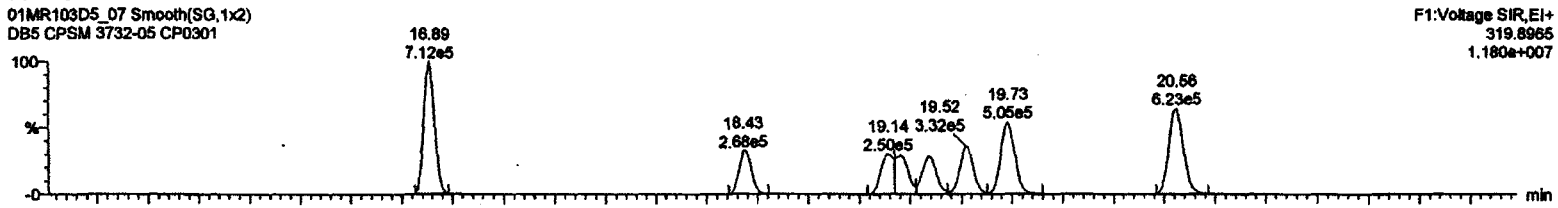
Quantify Sample Report **MassLynx 4.1**

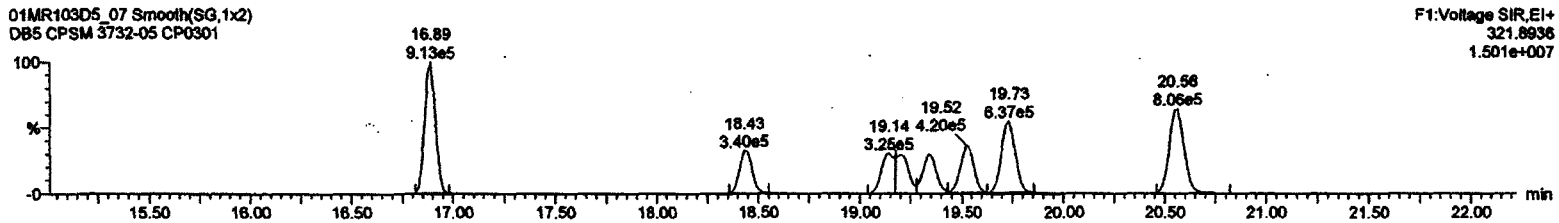
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 15:04:52 Pacific Standard Time
Printed: Monday, March 01, 2010 15:05:23 Pacific Standard Time

Name: 01MR103D5_07, Date: 01-Mar-2010, Time: 14:23:03, ID: CP0301, Description: DB5 CPSM 3732-05

TCDDs





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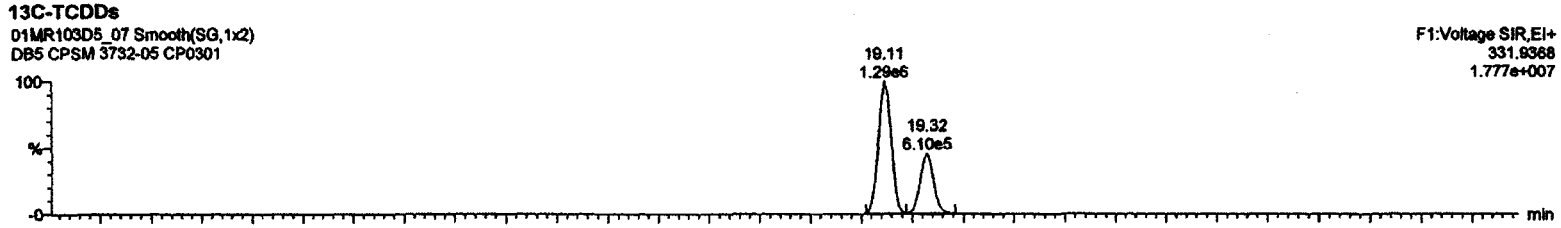
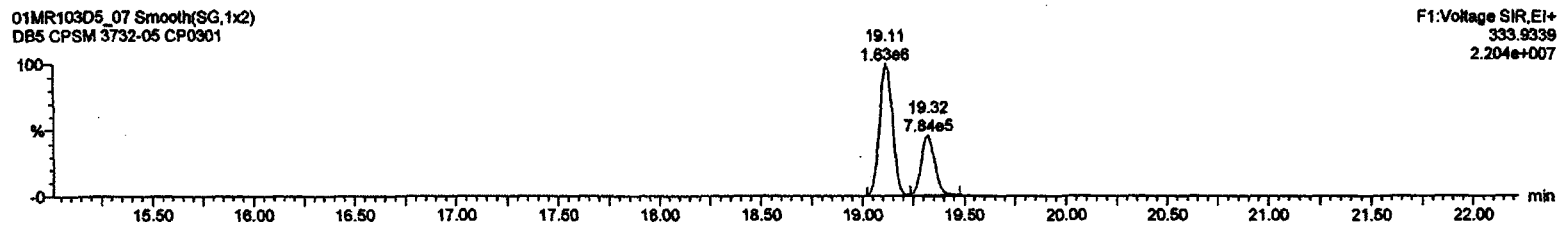




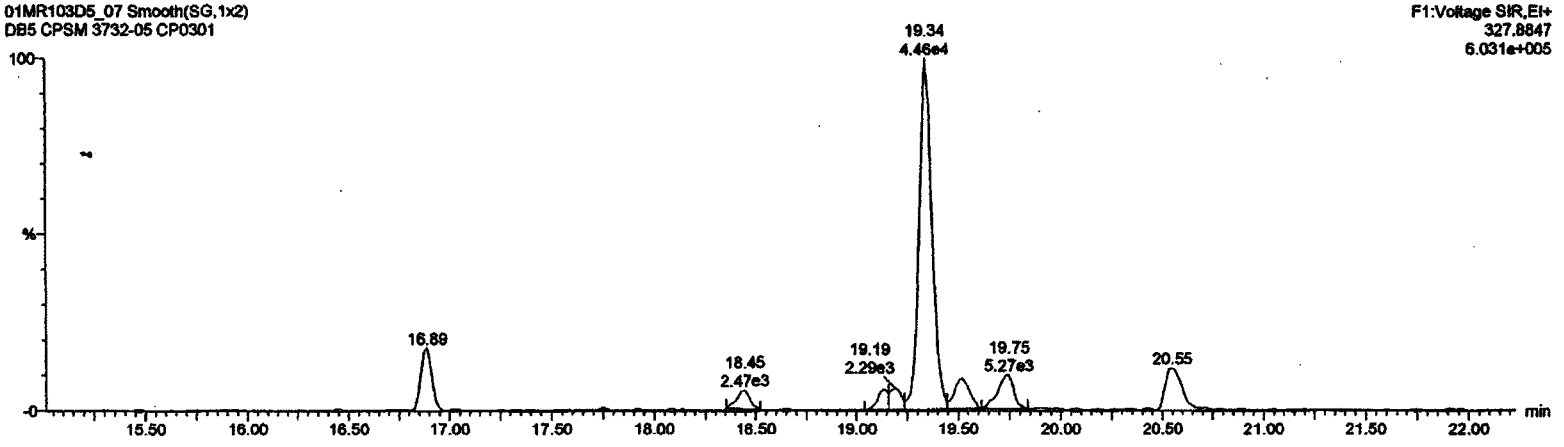
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 15:04:52 Pacific Standard Time
Printed: Monday, March 01, 2010 15:05:23 Pacific Standard Time

Name: 01MR103D5_07, Date: 01-Mar-2010, Time: 14:23:03, ID: CP0301, Description: DB5 CPSM 3732-05

37CL-2,3,7,8-TCDD



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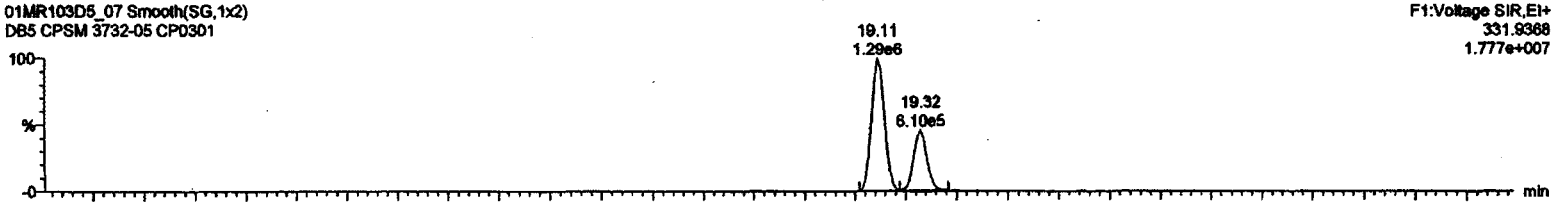
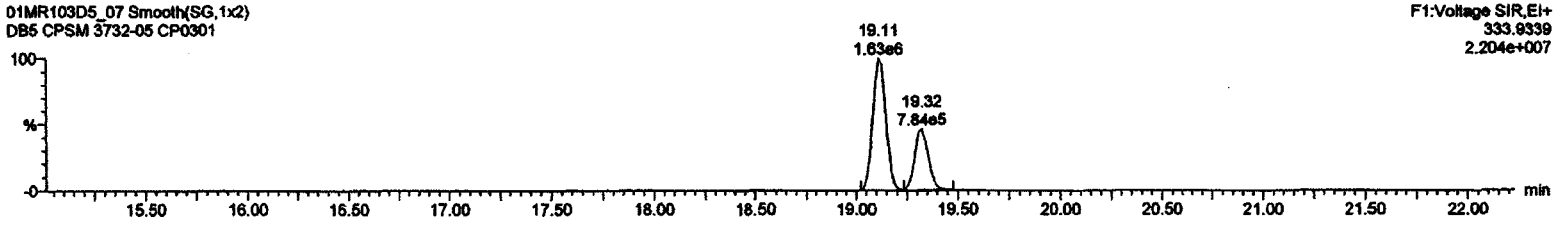




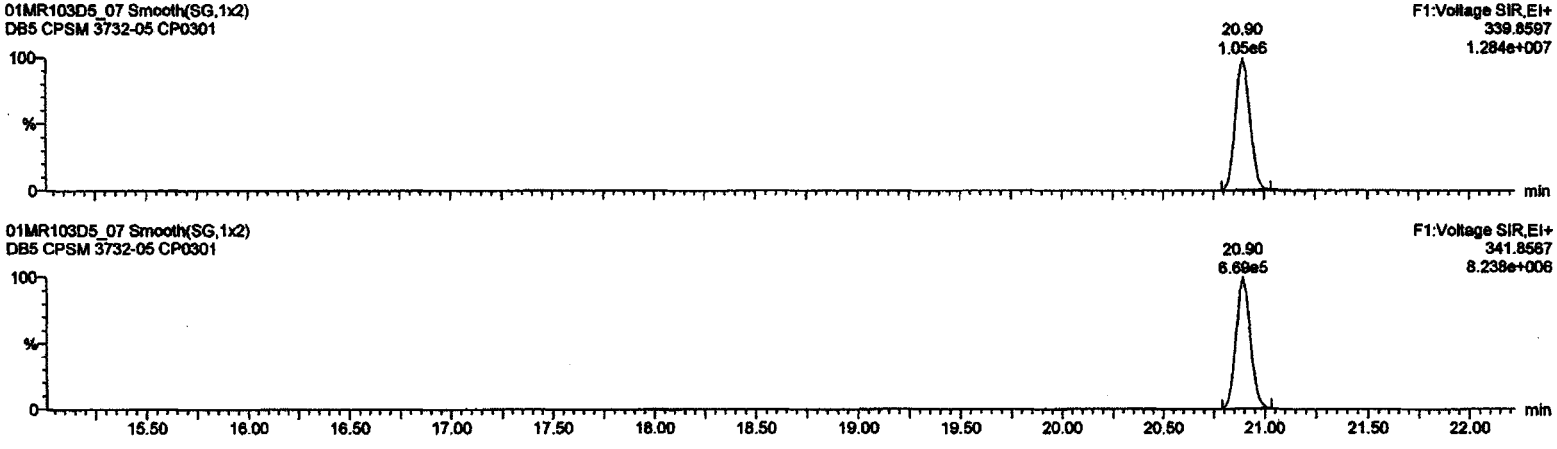
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 15:04:52 Pacific Standard Time
Printed: Monday, March 01, 2010 15:05:23 Pacific Standard Time

Name: 01MR103D5_07, Date: 01-Mar-2010, Time: 14:23:03, ID: CP0301, Description: DB5 CPSM 3732-05

F1 PeCDFs



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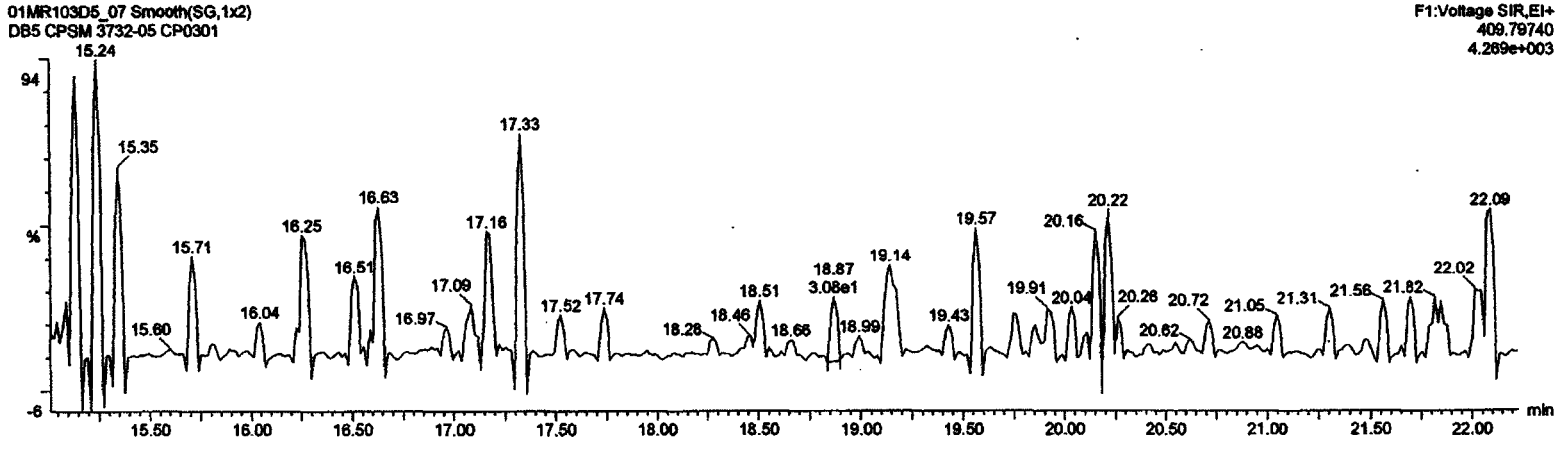


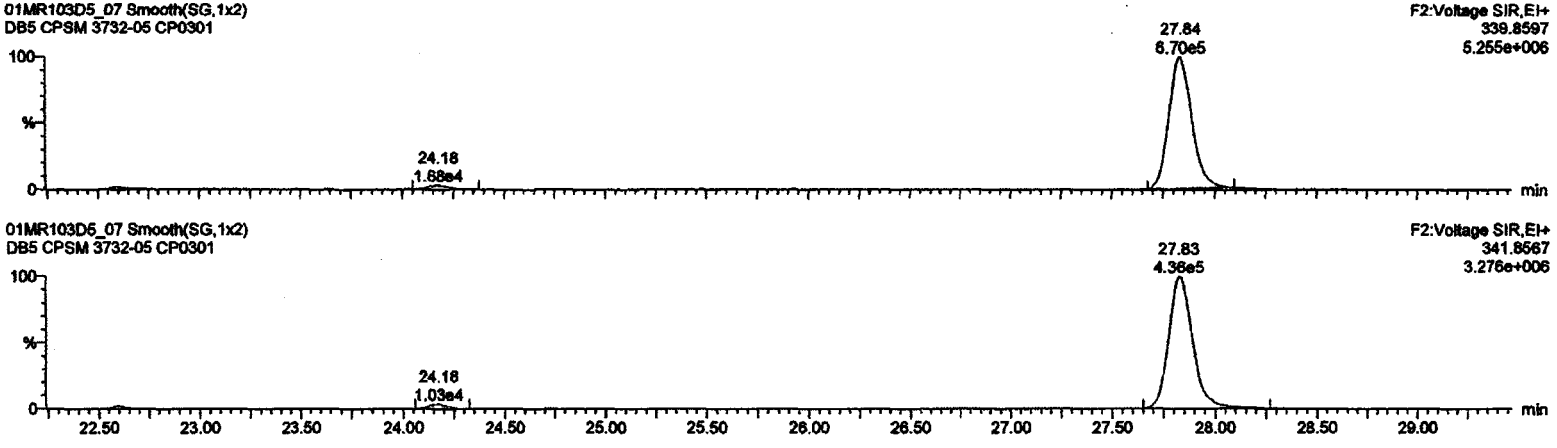
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

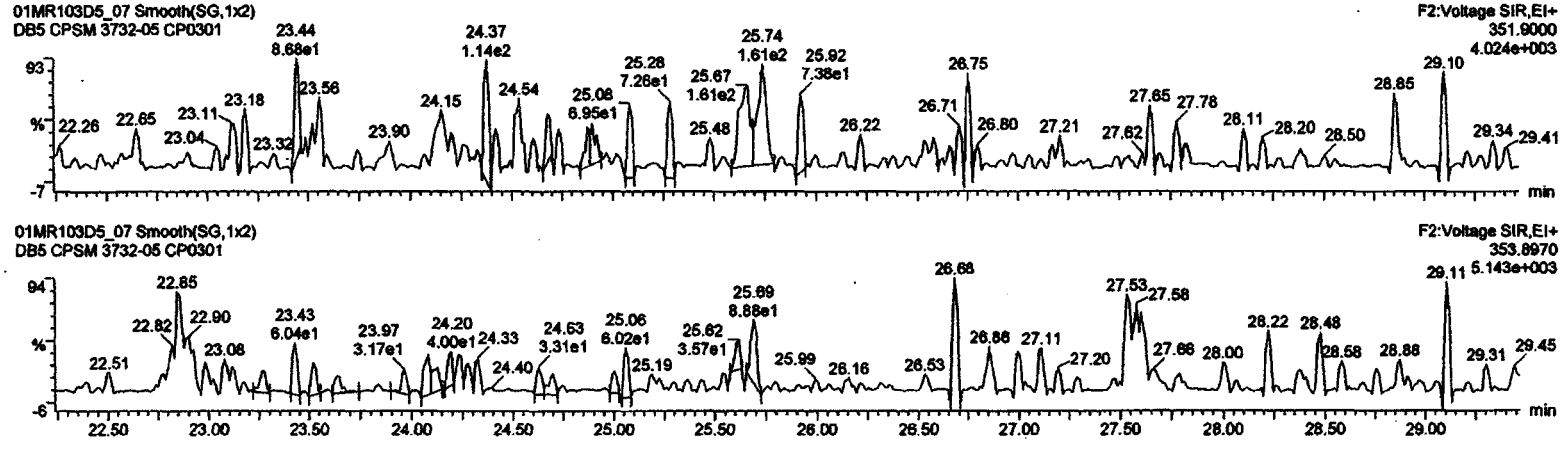
Last Altered: Monday, March 01, 2010 15:04:52 Pacific Standard Time
Printed: Monday, March 01, 2010 15:05:23 Pacific Standard Time

Name: 01MR103D5_07, Date: 01-Mar-2010, Time: 14:23:03, ID: CP0301, Description: DB5 CPSM 3732-05

PeCDFs



13C-PeCDFs



Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

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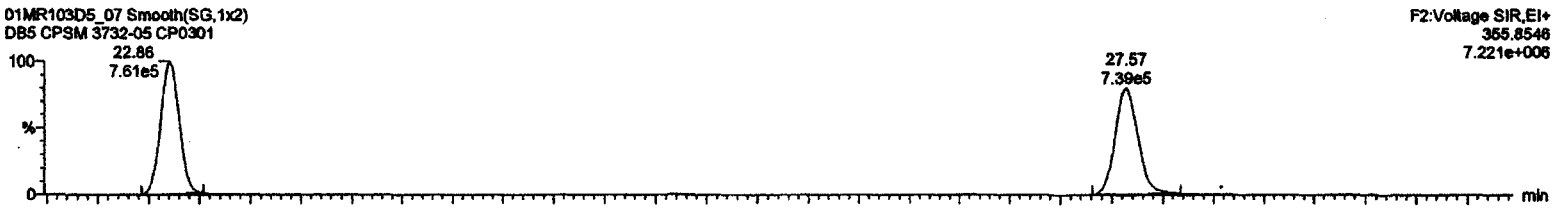
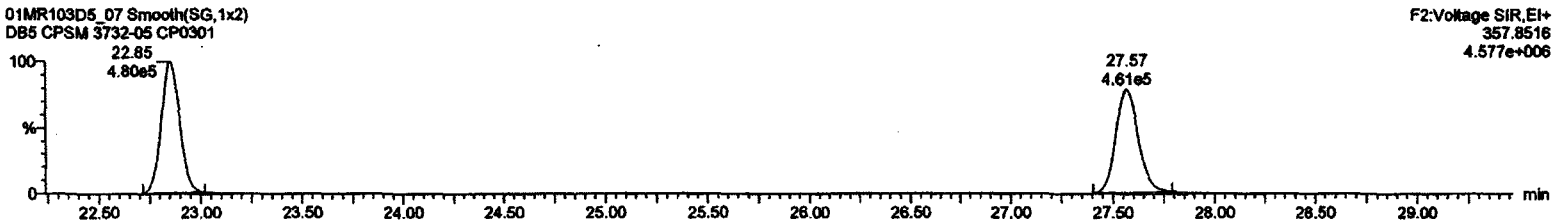
Printed: Monday, March 01, 2010 15:05:23 Pacific Standard Time

Name: 01MR103D5_07, Date: 01-Mar-2010, Time: 14:23:03, ID: CP0301, Description: DB5 CPSM 3732-05

PeCDDs





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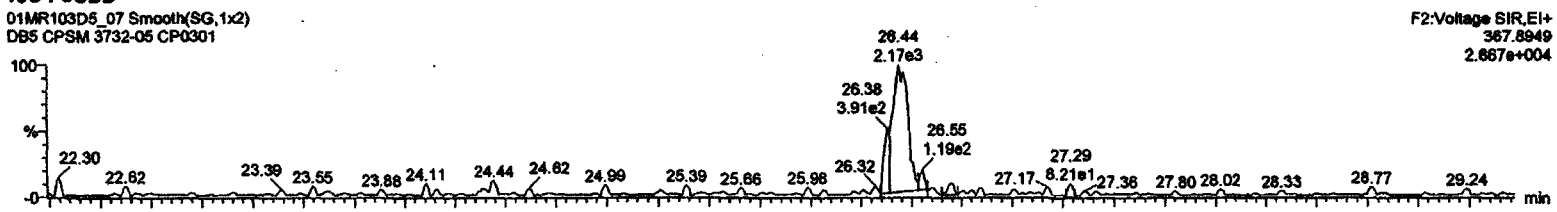

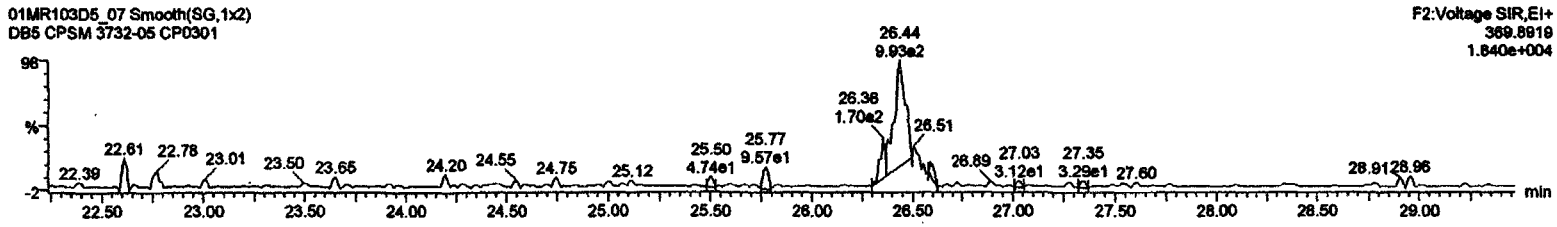

Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 15:04:52 Pacific Standard Time
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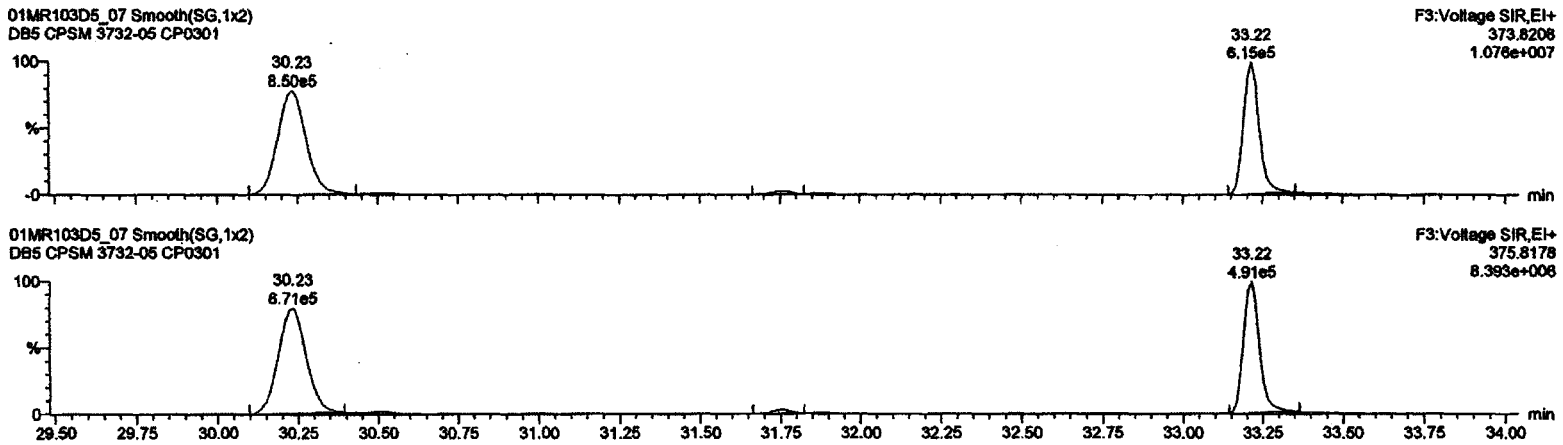
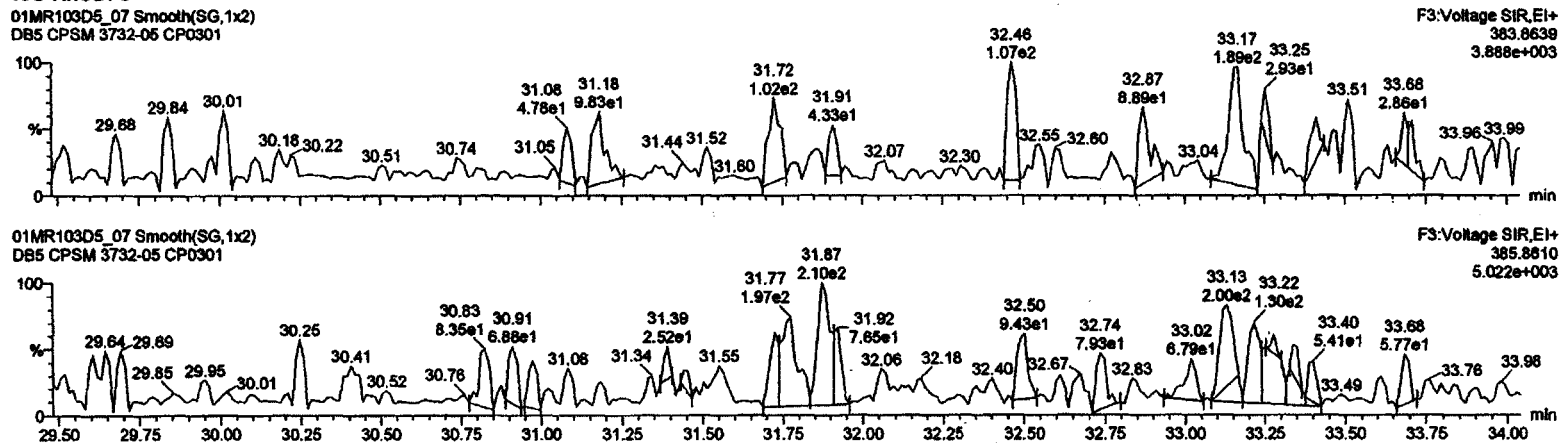
Name: 01MR103D5_07, Date: 01-Mar-2010, Time: 14:23:03, ID: CP0301, Description: DB5 CPSM 3732-05

HxCDFs



13C-HxCDFs



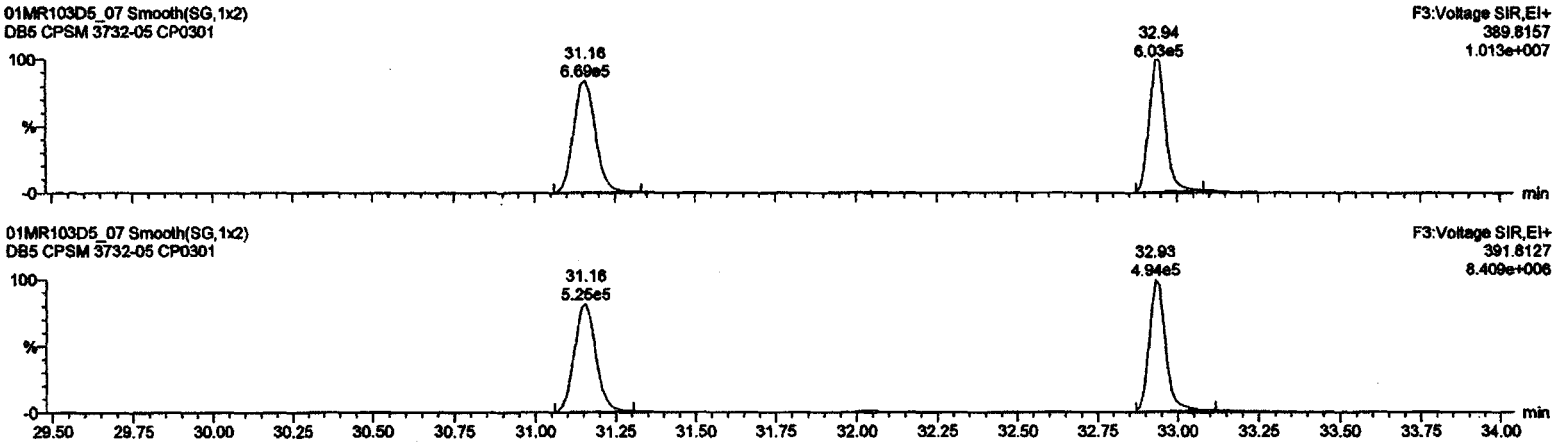
Quantify Sample Report **MassLynx 4.1**

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

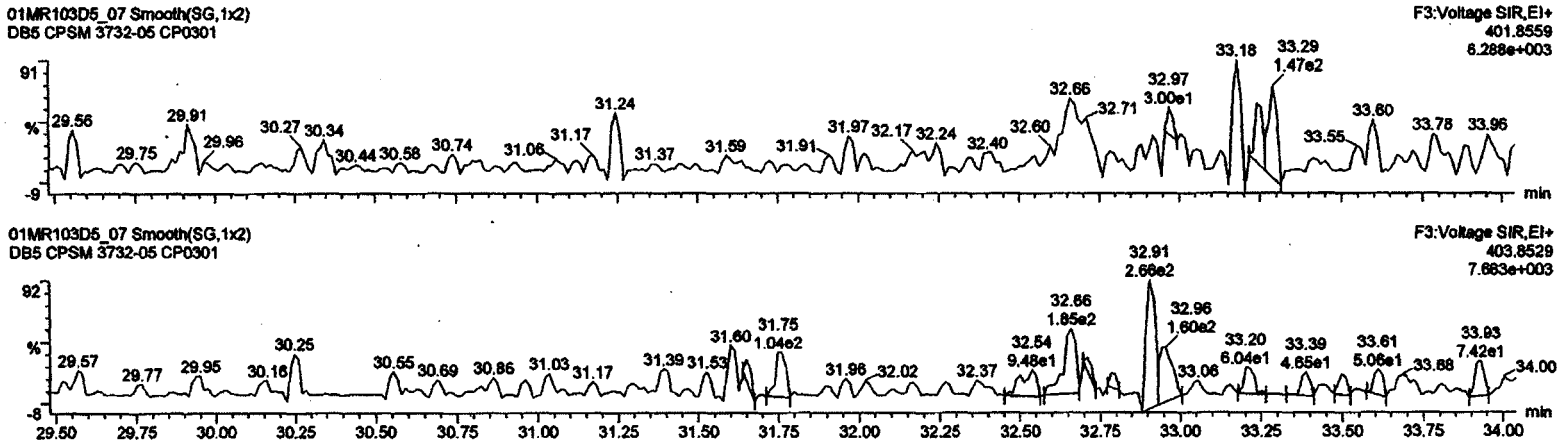
Last Altered: Monday, March 01, 2010 15:04:52 Pacific Standard Time
Printed: Monday, March 01, 2010 15:05:23 Pacific Standard Time

Name: 01MR103D5_07, Date: 01-Mar-2010, Time: 14:23:03, ID: CP0301, Description: DB5 CPSM 3732-05

HxCDDs



13C-HxCDDs



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Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 15:04:52 Pacific Standard Time
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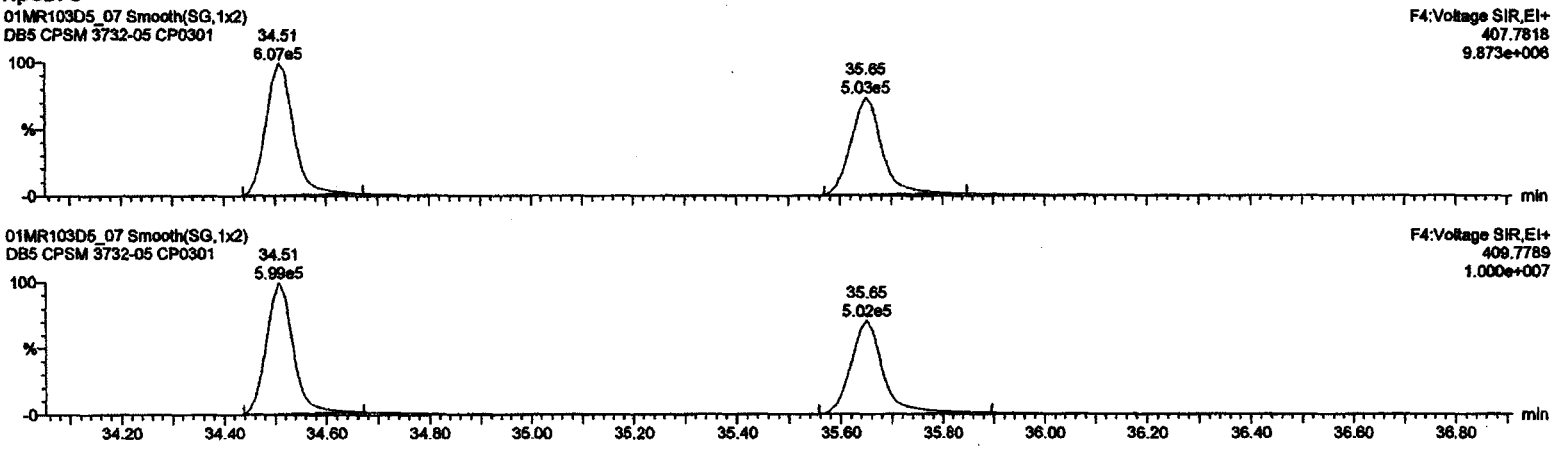
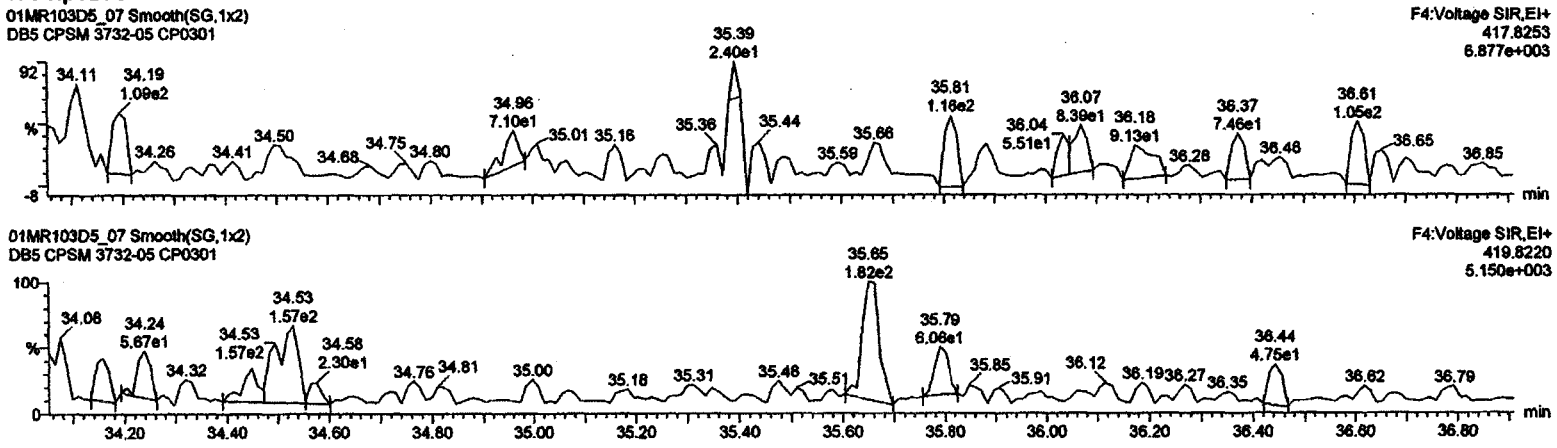
Name: 01MR103D5_07, Date: 01-Mar-2010, Time: 14:23:03, ID: CP0301, Description: DB5 CPSM 3732-05

HpCDFs



13C-HpCDFs



Quantify Sample Report **MassLynx 4.1**

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Last Altered: Monday, March 01, 2010 15:04:52 Pacific Standard Time
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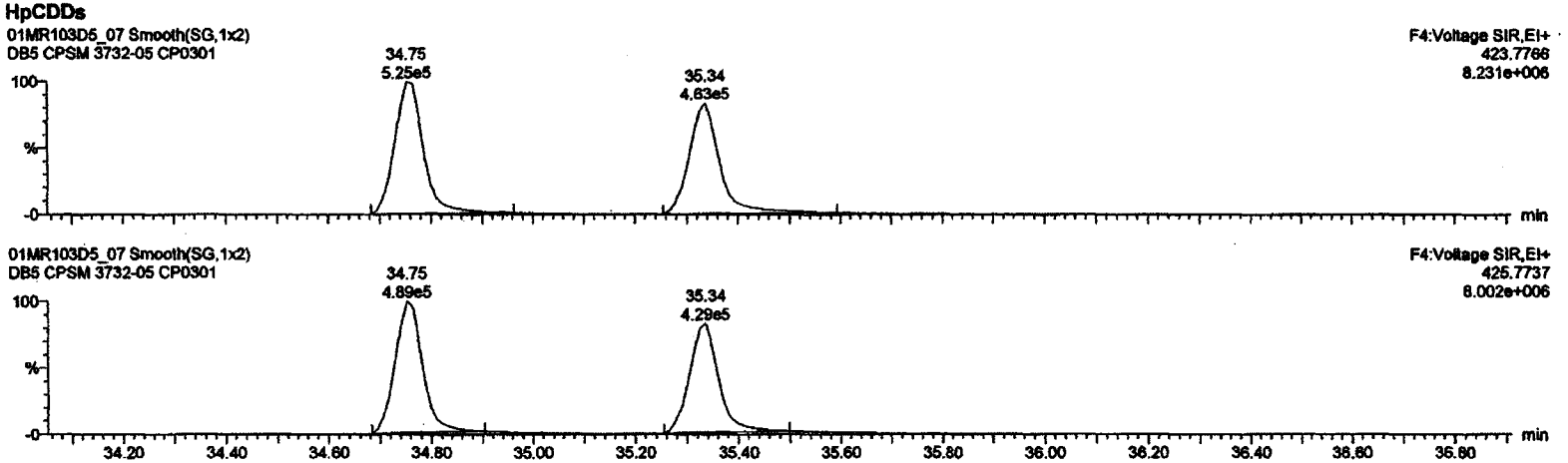
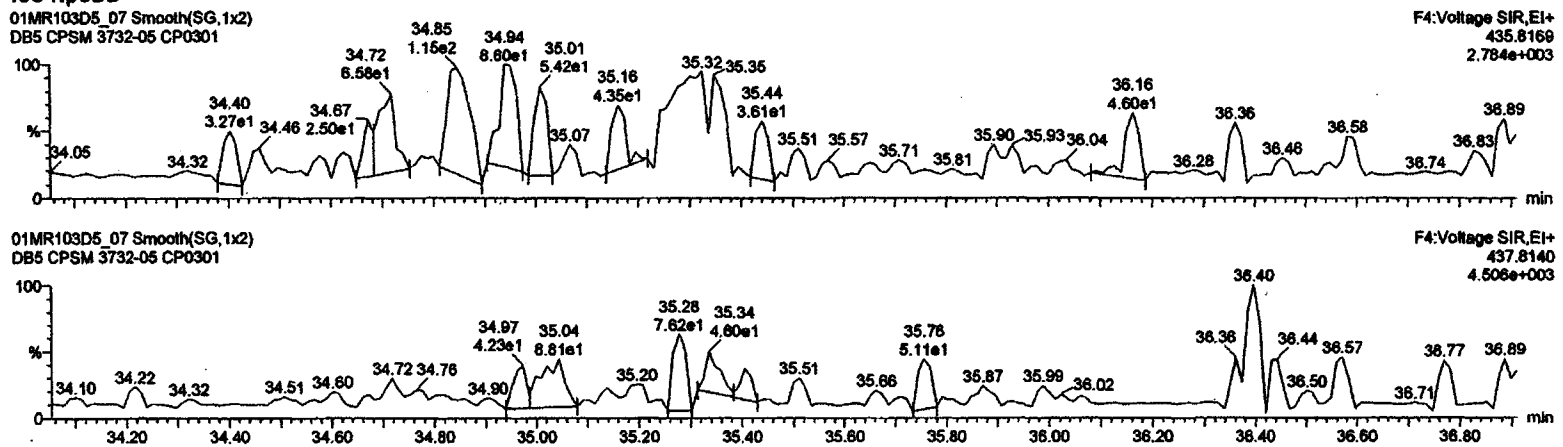
Name: 01MR103D5_07, Date: 01-Mar-2010, Time: 14:23:03, ID: CP0301, Description: DB5 CPSM 3732-05

HpCDDs



13C-HpCDD



Quantify Sample Report **MassLynx 4.1**

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Last Altered: Monday, March 01, 2010 15:04:52 Pacific Standard Time
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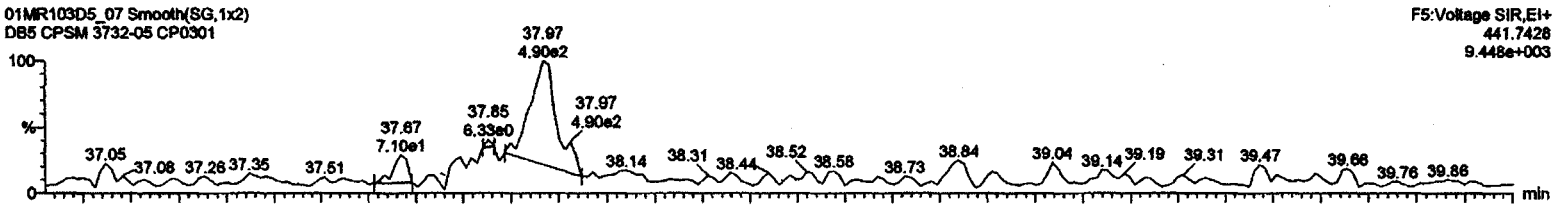
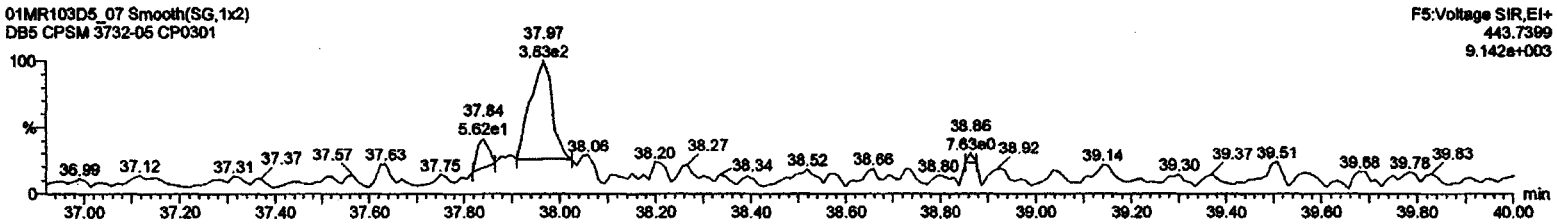
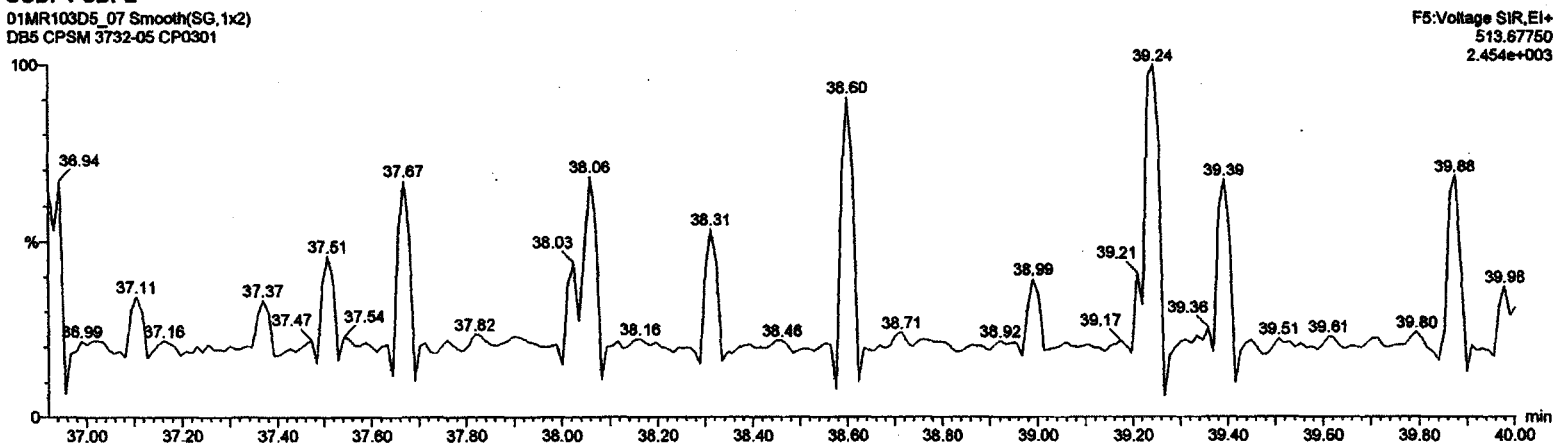
Name: 01MR103D5_07, Date: 01-Mar-2010, Time: 14:23:03, ID: CP0301, Description: DB5 CPSM 3732-05

OCDFs





OCDF PCDPE



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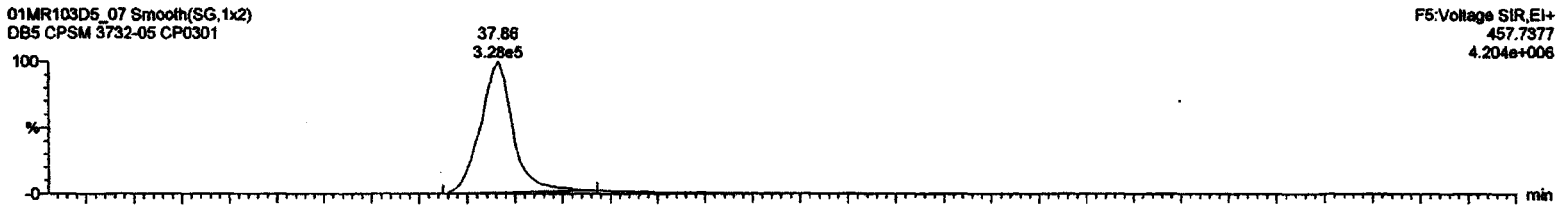
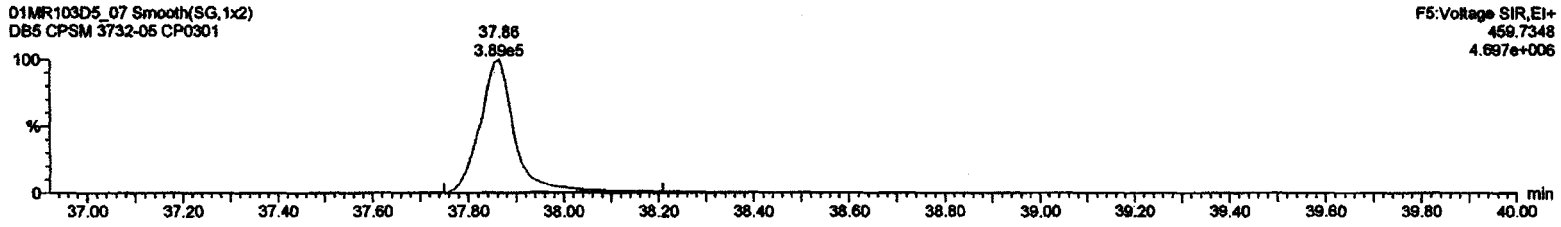
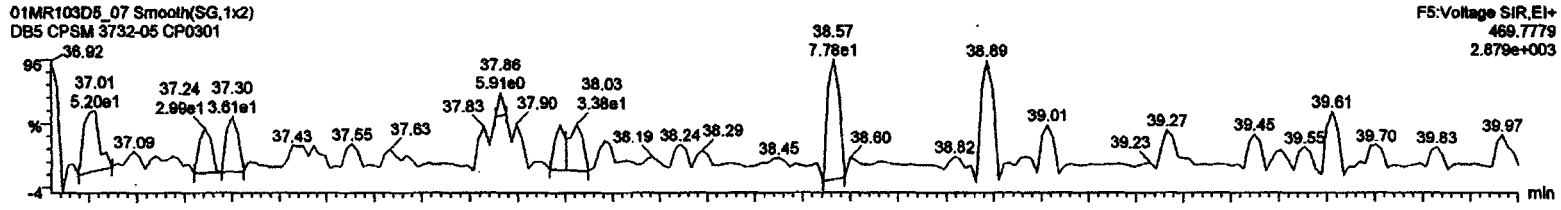
Name: 01MR103D5_07, Date: 01-Mar-2010, Time: 14:23:03, ID: CP0301, Description: DB5 CPSM 3732-05

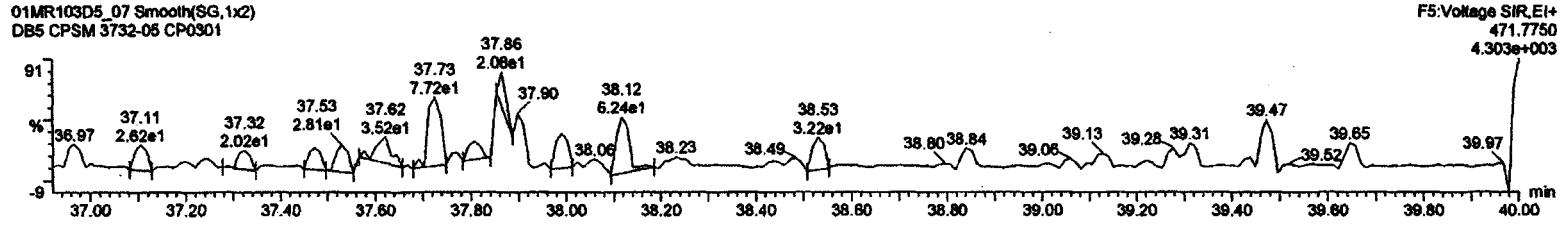
OCDD





13C-OCDD





Quantify Sample Report **MassLynx 4.1**

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Last Altered: Monday, March 01, 2010 15:04:52 Pacific Standard Time
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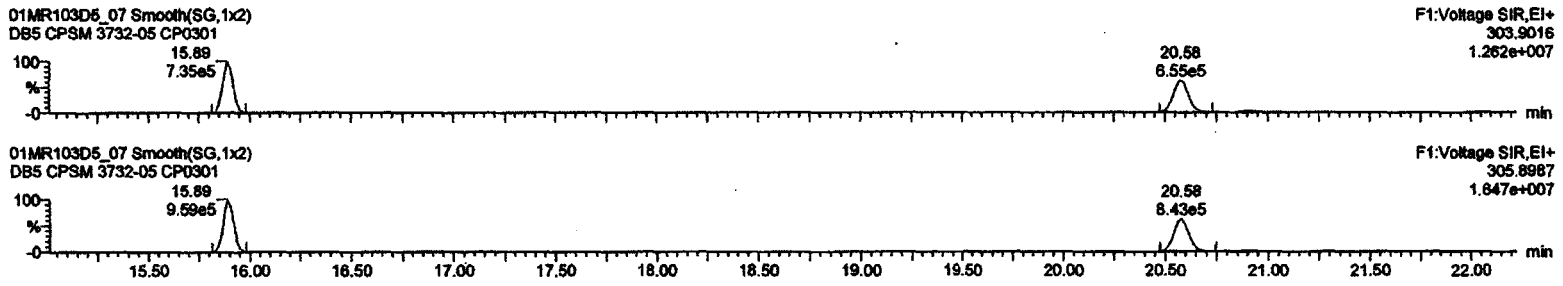
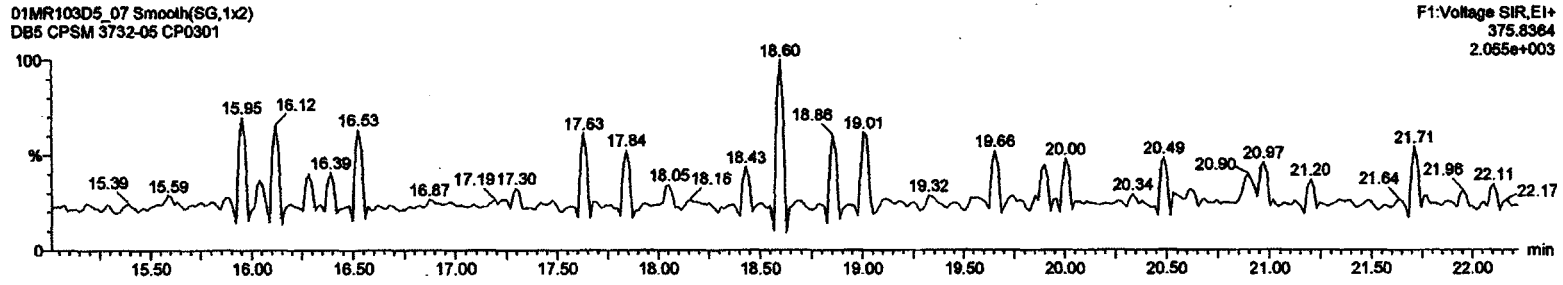
Name: 01MR103D5_07, Date: 01-Mar-2010, Time: 14:23:03, ID: CP0301, Description: DB5 CPSM 3732-05

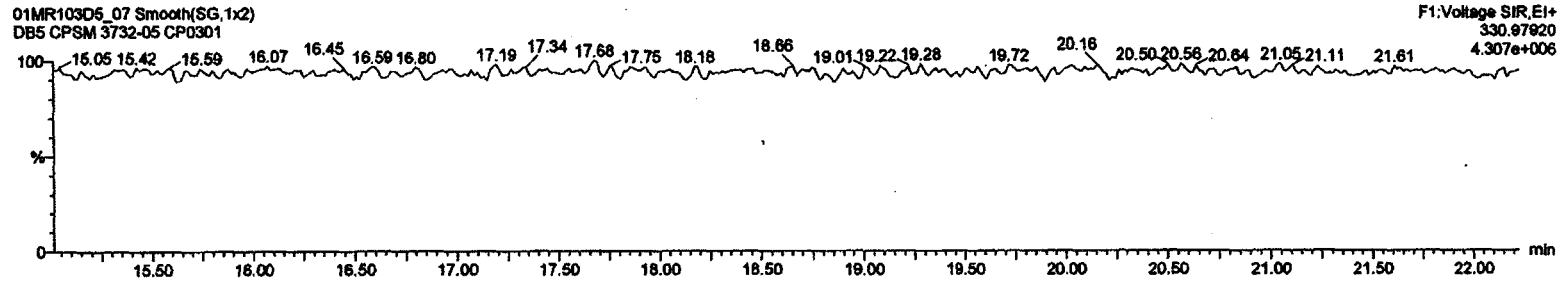
TCDFs



TCDF PCDPE



Function 1 PFK



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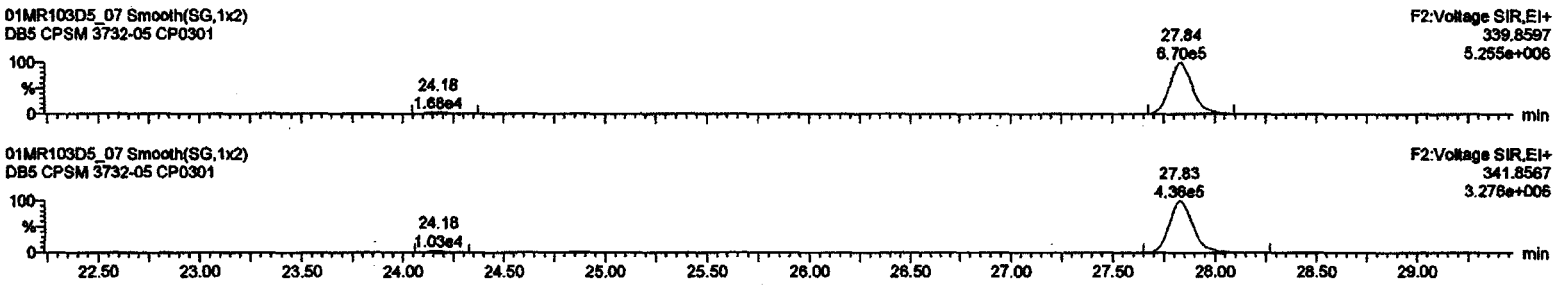
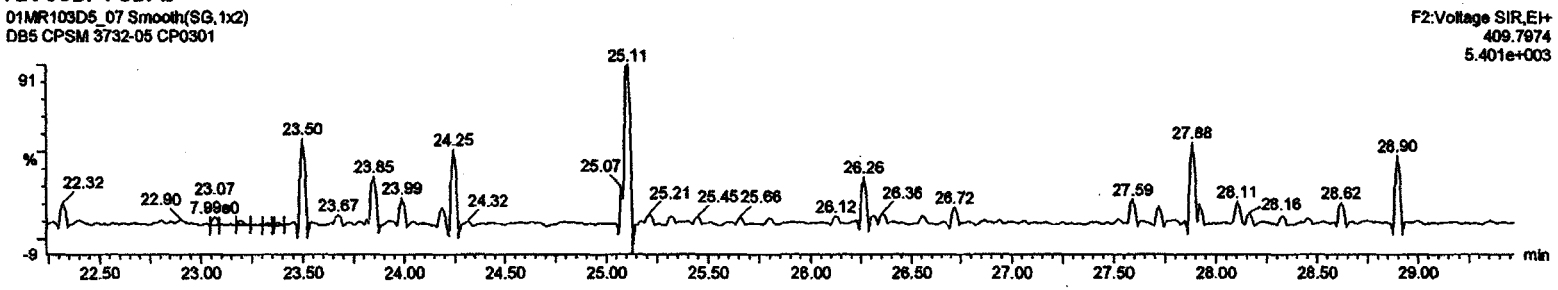
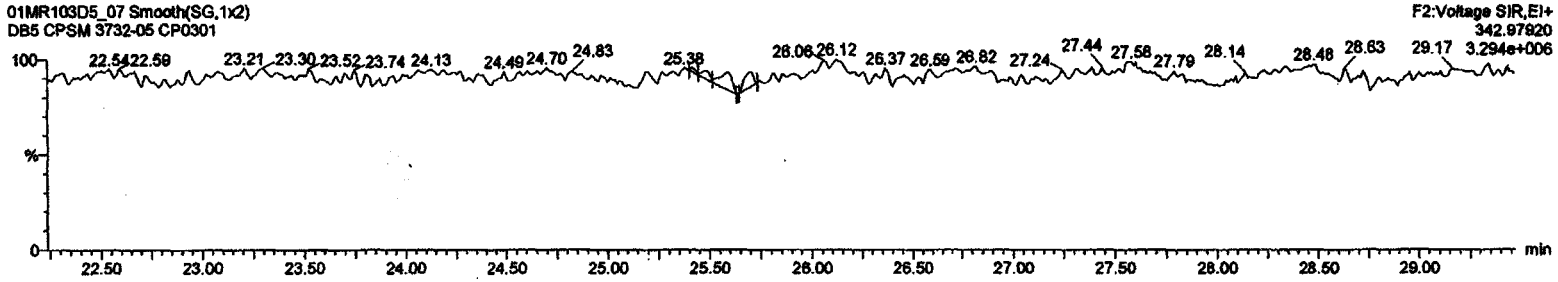
PeCDF



F2 PeCDF PCDPE



Function 2 PFK



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Last Altered: Monday, March 01, 2010 15:04:52 Pacific Standard Time
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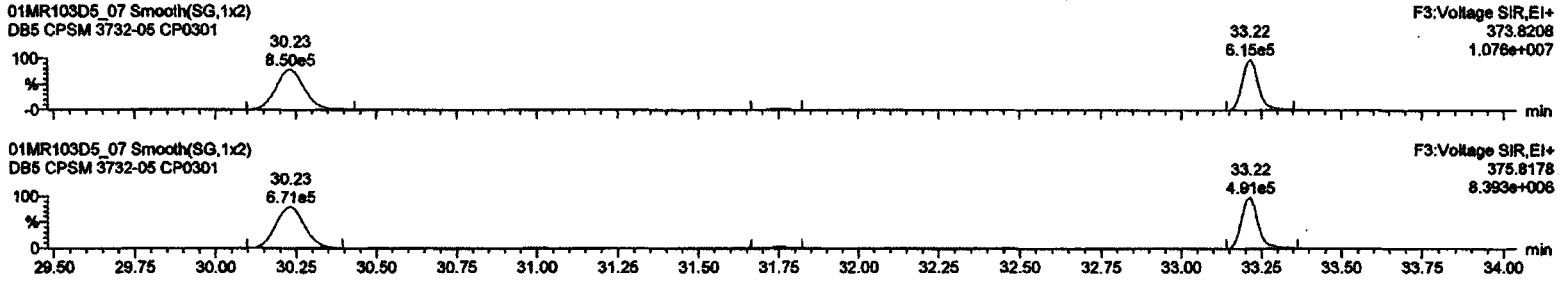
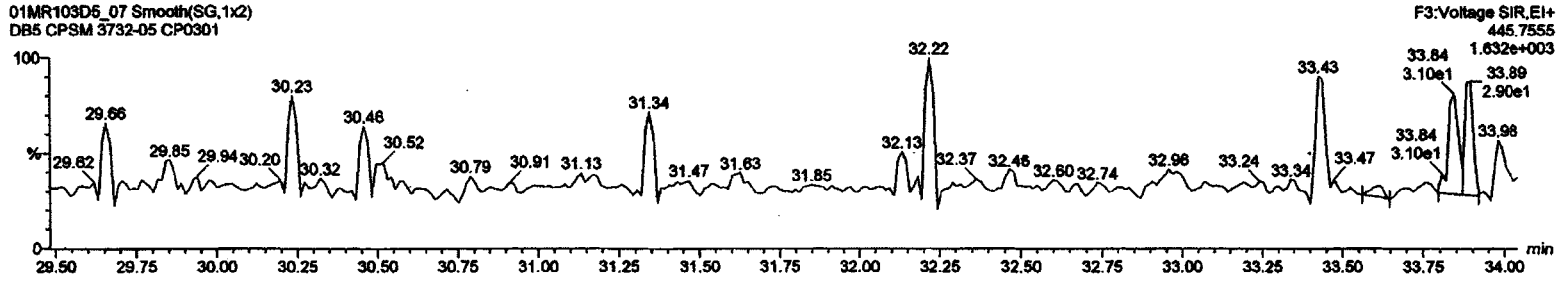
Name: 01MR103D5_07, Date: 01-Mar-2010, Time: 14:23:03, ID: CP0301, Description: DB5 CPSM 3732-05

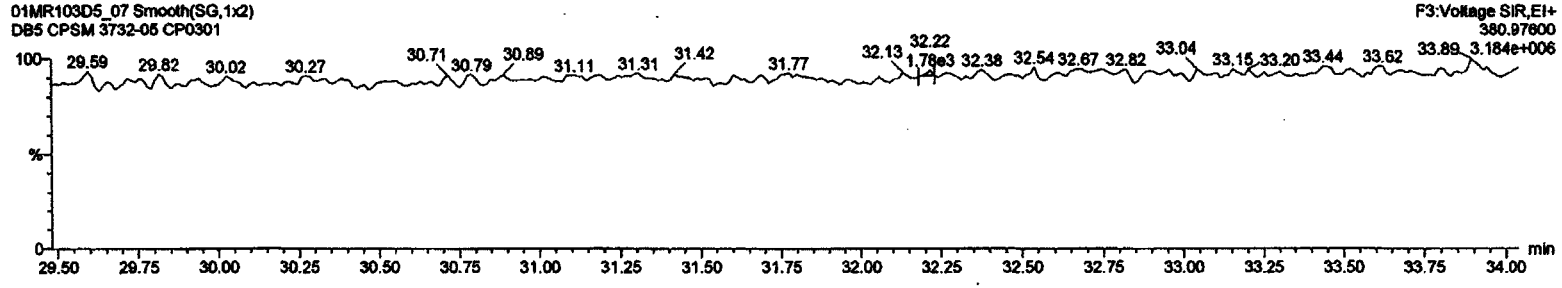
HxCDFs



HxCDF PCDPE



Function 3 PFK



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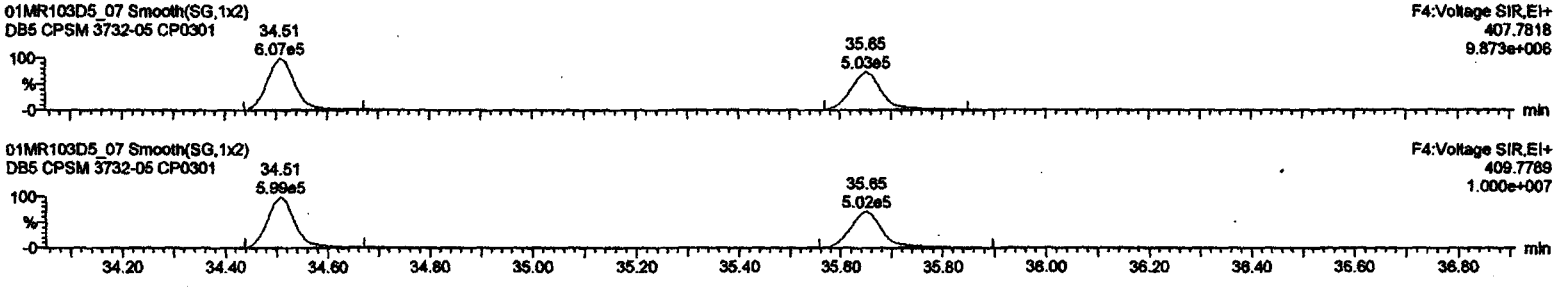
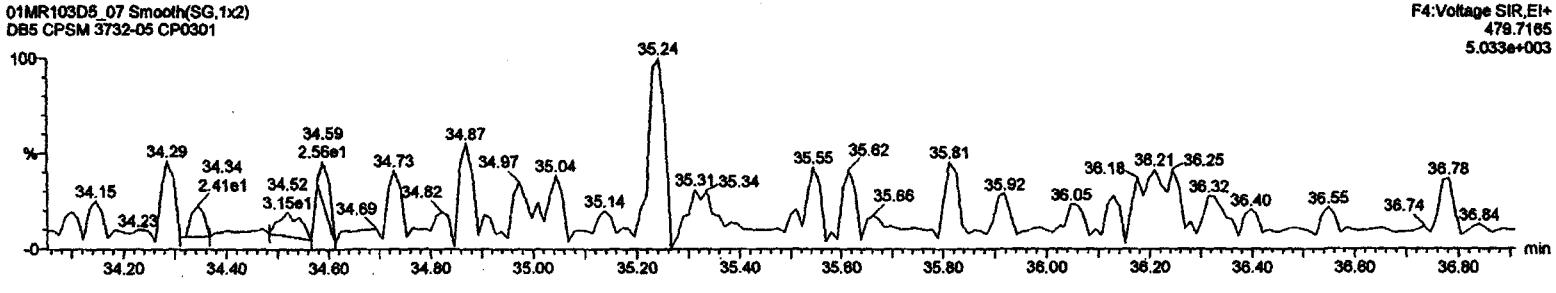
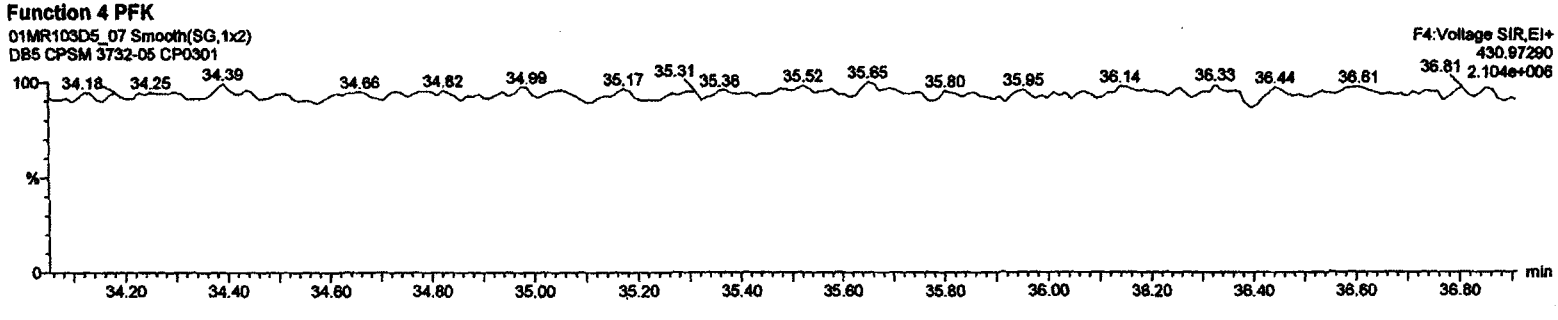
HpCDFs



HpCDF PCDPE



Function 4 PFK



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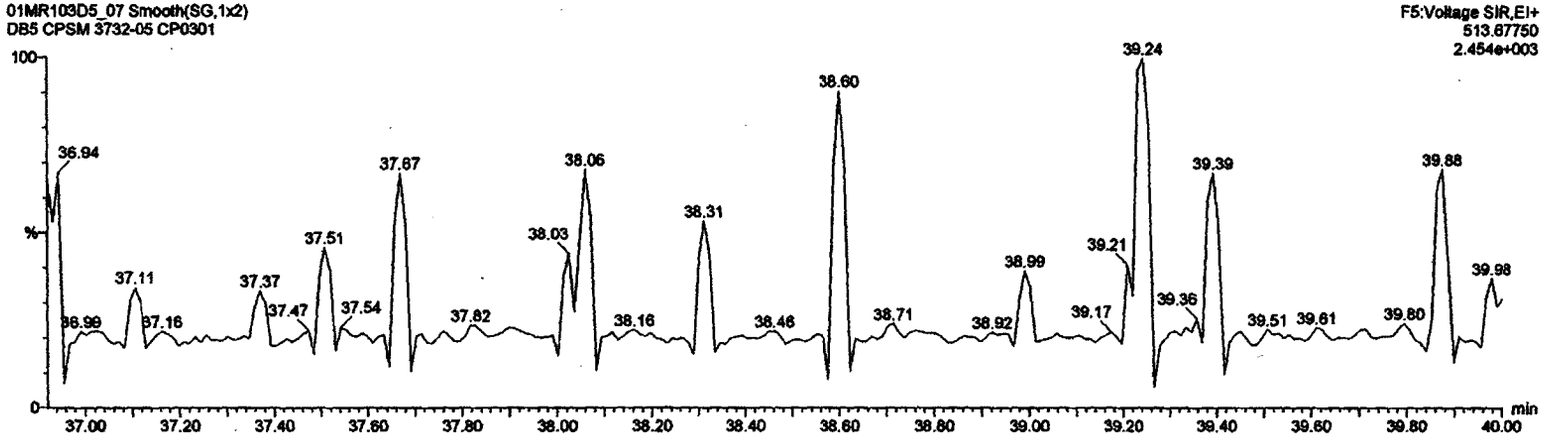
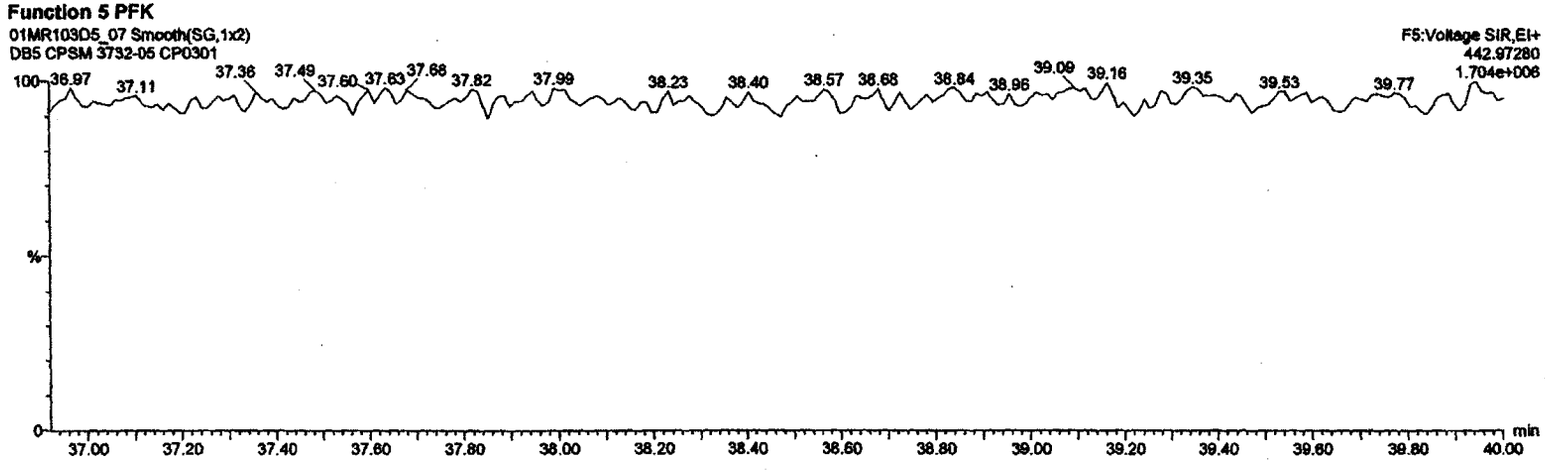
Name: 01MR103D5_07, Date: 01-Mar-2010, Time: 14:23:03, ID: CP0301, Description: DB5 CPSM 3732-05

OCDF PCDPE



Function 5 PFK



Sample Extraction/Preparation Log Copies and Checklists

TestAmerica West Sacramento
High Resolution Prep Log
Dioxin/Furan AQ Extraction

Box # 27

Shared QC Batch: 0054309

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Shares QC With:

Internal COC:	
Delivered to Inst.:	03/01/10
Inst Receipt:	

Batch: 0056319

MS Run #:

Prep Date: 2/25/2010

Method: Q& 8290A

Matrix: I WATER

Extraction: 09 LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

QC: 01 STANDARD TEST SET

SAC: Q& - I - 09 - 01

Prep Reagents

Reagent	Supplier	Lot #
DCM	Baker	H40S02
Hexane	Baker	H33E04
H2SO4	Baker	NA
20% DCM:Hexane	NA	3630-48E
65% DCM:Hexane	NA	3630-49G
1:1 DCM:Cyclohexane	NA	NA
75:20:5 DCM:Hexane:Benzene	NA	NA
Silica Gel	WHATMAN	22-22
Acid Alumina	MP	19
5% Carbon:Silica Gel	NA	NA

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size * 1000mL nom.	Final Volume 20uL	Final Volume Other	Analysis Hold Time Expires	Rotovap ID
G0B250000 - 319	B	LV4HR1AA	3/4/2010	1000.00	✓	T.L	4/11/2010	5
G0B250000 - 319	C	LV4HR1AC	3/4/2010	1000.00	✓	3/01/10	4/11/2010	7
G0B250507 - 1		LV3T71AA	3/4/2010	992.93	✓		4/11/2010	7

* See attached sheet for sample volumes recorded from scale

Comments/NCMs:

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Internal Standard All Samples	1.0mL 10DXN072	10/31/10	[illegible]	[illegible]	2/25/10
Spike Mix LCS/LCSD/MS/MS	—	—	—	—	—
Cleanup Standard All Samples	1.0mL 10DXN081	2/23/11	[illegible]	[illegible]	2/26/10
Recovery Standard All Samples	20.0µL 09DXN388	11/19/2010	T.L	[illegible]	03/01/10
Liq Liq Extraction Analyst/Date	[illegible] 2/25/10				

Split/Archive Analyst/Date	Option C Analyst/Date	IFB Analyst/Date	D2 Analyst/Date
—	—	[illegible] 2/26/10	—

TestAmerica West Sacramento

Data Checklist
HRGCMS/LRGCMS Analyses

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Batch #: 0056319 Method ID: Dioxins/Furans, HRGC/HRMS (8290A)

	DB-5	DB-225
Data Analyst:	AK	
Date initiated:	3/3/10	
Reviewer:	CL	
Date reviewed:	3/4/10	

QA/QC verification:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Daily standard package(s) present?	✓	✓		
-Method Blank present?	✓	✓		
-LCS/DCS copy present and meets native recovery criteria?	✓	✓		
-Internal standard recoveries within limits?*	✓	✓		
-Ion ratios within + 15% of theoretical values?	①	①		
-Other QC (Dup,MS,SD) within specs?**	NA	NA		

Sample Analysis:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Correct sample aliquot used?	✓	✓		
-All raw data present?	✓	✓		
-Standard target DL's used? If RL's are used specify:	✓	✓		
-DL's below TDL / LCL (please circle)?	✓	✓		
-All positives reported at levels greater than method blank DL's?	✓	✓		
-Correct RRF's used for method?	✓	✓		
-Internal standard amounts correct for method?	✓	✓		
-Target analytes are not saturated?	✓	✓		
-Dilution/splitting of extract taken into account?	NA	NA		
-Have dilution calculations been verified?	NA	NA		
-Has a manual calculation for the sequence(s) been verified?	✓	✓		
-Are retention times (RT) correct?	✓	✓		
-Manual integrations checked?	✓	✓		

Comments: (Use other side if necessary)
① see NCM

* Recovery limits:		**RPD limits:
NCASI 551:	40-120%***	50%
Method 8290:	40-135%***	20%
Method 1613:	25-150%***	50%
Method 23:	40-130%***(Cl4-Cl6), 25-130%(Cl7-8), 70-130%(surr.)	50%
PCBs:	25-150%***	50%
Method 8280:	40-120%***	
DFLM01.0:	25-150%***	
Method 1614	25-150%***	

*** Lower recoveries are acceptable if I.S. S/N ≥10:1 and DL's are <LCL for target analytes.

QA-371 07/99 MAF

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/01/10
Time: 7:33:27

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
_	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets
			_	_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 002531 Jonathan Reed

Concentrationist: 000047 Tatyana Lopuga

QC BATCH: 0056319

PREP DATE: 2/25/10 19:38
COMP DATE: 3/01/10 15:00

Reviewer/Date: LOPUGAT / 3/01/10

Dioxins/Furans, HRGC/HRMS (8290A)
LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/04/10	3/04/10	G0B250507-001 **LV3T7-1-AA**	R	09	Q&	WATER	**992.93mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	100.0	1.0 ML 10DXN072 IS
COMMENTS:															
3/04/10	0/00/00	G0B250000-319 **LV4HR-1-AAB**		09	Q&	WATER	**1000.00mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	100.0	1.0 ML 10DXN072 IS
COMMENTS:															
3/04/10	0/00/00	G0B250000-319 **LV4HR-1-ACC**		09	Q&	WATER	**1000.00mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	100.0	50.0 UL 10DXN047 NS 1.0 ML 10DXN072 IS
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0056319 **Test:** 8290

Prep Date: 2/25/10 **Holding Times:** 3/04/10 **NCM:** Y (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. **Holding times checked?** NCMs filed as appropriate	✓	
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	✓	
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.	✓	NA
4. Worksheets have been checked for required spiking compounds	✓	
5. Spiking volumes are correctly documented	✓	
6. Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7. Expiration dates have been checked	✓	
8. Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet	✓	
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	
2. Balance upload or raw data for weights is included	NA	
3. Weights and volumes have been transcribed correctly to LIMS.	NA	
4. Weights are not targeted to meet exact weights.	NA	
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	
2. Are dates and analysts for cleanups recorded?	NA	
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	
2. QuantIMs entry correct, including dates and times.	NA	
3. Are all fields completed?	NA	

Spike witness: _____ Date: 2/25/10

2nd Level Reviewer: _____ Date: 3/10

Comments:

q:\forms\checklists\qa-588 prep_review.doc

QA-588 Revised 12/30/2008 ERS

ATTACHMENT A.3

Environmental Standards, Inc. Quality Assurance Review Report

ENVIRONMENTAL STANDARDS

Setting the Standards for Innovative Environmental Solutions

March 22, 2010

Mr. David N. Scotti, P.G.
Loureiro Engineering Associates, Inc.
100 Northwest Drive
Plainville, CT 06062

Dear Mr. Scotti:

Enclosed is the FINAL quality assurance review for the aqueous samples collected on February 2, 2010, for the Centredale Manor Restoration Project Site in North Providence, Rhode Island. The samples were analyzed for polychlorinated dibenzodioxin/polychlorinated dibenzofuran (PCDD/PCDF) compounds.

The data quality for PCDD/PCDF compounds in the samples was generally acceptable; however, the following qualifications were made.

- The results for several PCDD/PCDF compounds in several samples were qualified as "not-detected" due to blank contamination.
- The results for several PCDD/PCDF compounds in several samples were qualified as estimated maximum possible concentrations due to out-of-criteria ion abundance ratios.
- All positive results reported with concentrations less than the concentration of the lowest calibration standard were qualified as estimated.

If you have any questions or comments, please do not hesitate to call.

Sincerely,

Eric T. Lahr
Senior Quality Assurance Chemist

Sincerely,

David R. Blye, CEAC
Quality Assurance Specialist/
Principal

ETL/DRB:hm
Enc.

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ENVIRONMENTAL STANDARDS

Setting the Standards for Innovative Environmental Solutions

QUALITY ASSURANCE REVIEW

OF THE AQUEOUS SAMPLES

COLLECTED ON FEBRUARY 2, 2010

FOR CENTREDALE MANOR RESTORATION PROJECT

NORTH PROVIDENCE, RHODE ISLAND

FINAL

March 22, 2010

Prepared for:

LOUREIRO ENGINEERING ASSOCIATES, INC.
100 Northwest Drive
Plainville, CT 06062

Prepared by:

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Executive Summary

An analytical quality assurance (QA) review was performed on data generated from the analyses of four aqueous samples and two associated quality control (QC) samples collected in association with the Centredale Manor Restoration Project Site on February 2, 2010, by Loureiro Engineering Associates Inc. All organic analyses were performed by US EPA Method 8290A. One comprehensive Contract Laboratory Program (CLP)-like raw data package was prepared by the laboratory and was reviewed by Environmental Standards, Inc.

The data quality for polychlorinated dibenzodioxin/polychlorinated dibenzofuran (PCDD/PCDF) compounds in the samples was generally acceptable; however, the following qualifications were made.

- The results for several PCDD/PCDF compounds in several samples were qualified as “not-detected” due to blank contamination.
- The results for several PCDD/PCDF compounds in several samples were qualified as estimated maximum possible concentrations due to out-of-criteria ion abundance ratios.
- All positive results reported with concentrations less than the concentration of the lowest calibration standard were qualified as estimated.

Introduction

This quality assurance (QA) review is based upon a rigorous examination of data generated from the analyses of four aqueous samples and their associated quality control (QC) samples collected in association with the Centredale Manor Restoration Project Site in North Providence, Rhode Island, on February 2, 2010, by Loureiro Engineering Associates, Inc. Table 1 presents the field sample number, laboratory sample number, project number, matrix, collection date, and parameter analyzed for the samples included in this QA review.

This review has been performed with guidance from the "National Functional Guidelines for Chlorinated Dioxin and Furan Data Review" (US EPA, September 2005).

The reported analytical results are presented on the data tables included in Section 2, "Target Analyte Summary." These data tables were generated from the electronic data deliverables (EDDs) provided by the laboratory and include all final data validation qualifiers and results. Data were examined to determine the usability of the analytical results and compliance relative to requirements specified in SW-846 Method 8290A. In addition, the deliverables prepared according to a Contract Laboratory Program (CLP)-like data package were evaluated. Qualifier codes have been placed in the "Validation Qualifier" field on the data tables where necessary to enable the data user to quickly assess the qualitative and/or quantitative reliability of any result based on the criteria evaluated. Details of this QA review are presented in Section 1 of this report.

This critical QA review identifies data quality issues for specific samples and specific evaluation criteria. The data qualifications allow the data end-user to best understand the usability of the analysis results. Data not qualified in this report should be considered valid based on the QC criteria that have been reviewed.

TABLE 1

SUMMARY OF SAMPLE DATA REVIEWED

CENTERDALE MANOR SITE RESTORATION PROJECT SITE

Loureiro Engineering Associates, Inc. Sample Identification	Laboratory Sample Number	Project Number	Matrix	Date of Sample Collection	Parameter Analyzed and Reviewed
1138338UF	G0B040517-002	G0B040517	Aq	2/2/10	D/F
1138339UF	G0B040517-004	G0B040517	Aq	2/2/10	D/F
1138339UFMS (Matrix Spike)	G0B040517-004MS	G0B040517	Aq	2/2/10	D/F
1138339UFMSD (Matrix Spike Duplicate)	G0B040517-004MSD	G0B040517	Aq	2/2/10	D/F
1138342UF (Field Duplicate of 1138338UF)	G0B040517-010	G0B040517	Aq	2/2/10	D/F
1138343UF (Equipment Blank)	G0B040517-012	G0B040517	Aq	2/2/10	D/F
1138344 (Performance Evaluation Sample)	G0B250507-012	G0B250507	Aq	2/2/10	D/F

NOTES:

D/F - Polychlorinated Dibenzo-*p*-dioxins and Polychlorinated Dibenzofurans by US EPA Method 8290A. (7 analyses)

Aq - Aqueous.

Section 1 Quality Assurance Review

A. Organic Data

The organic analyses of four aqueous samples (including QC samples) collected as part of the Centredale Manor Restoration Project Site in North Providence, Rhode Island, were performed by TestAmerica Inc. (TestAmerica) of Sacramento, California. The samples were analyzed for polychlorinated dibenzodioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) according to SW-846 Method 8290A. The samples and analyses reviewed are identified on Table 1. The data were presented in one Contract Laboratory Program (CLP)-like data package.

The findings offered in this report are based upon a rigorous review of the following:

- sample holding times
- blank analysis results
- analytical sequence
- laboratory control sample (LCS) recoveries
- matrix spike (MS) and matrix spike duplicate (MSD) accuracy and precision
- qualitative identification
- ion abundance ratios
- field duplicate precision
- sample condition upon laboratory receipt
- initial calibration and continuing calibration verifications (CCVs)
- quantitation of results
- gas chromatogram/mass spectral (GC/MS) tuning and system performance
- retention times (RTs)
- labeled standard recoveries
- signal to noise (S/N) ratios
- performance evaluation (PE) sample results

The qualified analytical results for the organic compounds are provided as a summary of the data in Section 2 of this report.

One issue was identified as detailed below. Issues are presented in two categories – reporting issues and procedural issues. Reporting issues are data deliverable issues that can easily be corrected and that may or may not impact the usability of the reported results. Procedural issues are issues that cannot be corrected and address method compliance issues; these issues may or may not impact the usability of the reported results. No procedural issues were identified in the project numbers included in this QA review. Several comments are presented. Comments address issues for which the data reviewer has provided information in order to clarify issues relating to the data. The data reviewer has included copies of relevant raw data, QC forms, and other documentation needed to support any changes made to the data package in the Organic Data Support Documentation (Section 3) of this review. The following issue and comments do not affect data usability (*viz.,* items necessitating data qualification).

Reporting Issue

- The laboratory did not summarize the results from the instrument blanks; consequently, instrument blank contamination could not be assessed.

Comments

1. In order to be reported as a positive PCDD/PCDF concentration, the two quantitation ions must be present with signal-to-noise (S/N) ratios of at least 2.5 to 1 at the correct retention time; these ions must maximize simultaneously (within ± 2 seconds); the ion abundance ratio for the two quantitation ions must fall within the SW-846 Method 8290A acceptance limits (Table 8 of Method 8290A); and the GC peaks must appear within the retention time window for a given homologous series (class of isomers; *e.g., penta d*ioxins) established prior to the analysis. If a peak meets all of these criteria, the result is reported as positive; if a peak meets none of the criteria, the result is reported "ND" at the calculated EDL (Method 8290A, Section 7.9.5). According to SW-846 Method 8290A (Section 7.9.5.2), when all qualitative criteria are met except the ion abundance ratio criteria or when a peak representing a polychlorinated diphenyl ether (PCDPE) has been detected, an estimated maximum possible concentration (EMPC) is reported. The laboratory reported several results as EMPC results. For the 2,3,7,8-PCDD/PCDFs, the laboratory reported the EMPC values (calculated in the same manner as positive results) with a "Q" qualifier on the analytical reports and in the EDD provided. The laboratory included EMPC results in the reported total CDD/CDF homologue results. Qualification of data due to ion abundance ratios outside of acceptance criteria is addressed in the subsequent Organic Data Qualifiers section.

2. The laboratory analyzed an instrument blank prior to the closing continuing calibration verification (CCV) standard in the 2/17/10 analytical sequence. The analysis of instrument blanks prior to CCV standards makes it appear as if the instrument is being "conditioned" to eliminate carryover issues in order to pass CCV standard acceptance criteria. It was not apparent if carryover between project sample to project sample was also monitored in this fashion. The laboratory should carefully evaluate the use of these instrument blanks and avoid the appearance of preferential treatment of QC samples.

3. In cases where individual PCDD/PCDF isomer results that contributed to total PCDD/PCDF results were qualified, the associated total PCDD/PCDF results were also qualified because the total results included biased individual isomer results.

4. One field duplicate pair (Project Number G0B040517 sample 1138338UF and its field duplicate, sample 1138342UF) was collected and analyzed for PCDD/PCDF compounds with this data set. Acceptable precision and sample representativeness (*i.e*., the difference was < the reporting limit [RL] when at least one result was < 5× the RL or the relative percent difference [RPD] was < 20% when both results were > 5× the RL) was observed between the results for PCDD/PCDF isomers observed in the field duplicate pair. A complete comparison of the field duplicate results is provided in Section 3.

5. The accuracy of the PCDD/PCDF analyses was supported by the observed result for 2,3,7,8-TCDD in the one double-blind PE sample (Project Number G0B250507 sample 1138344) that was analyzed with these project samples. Data qualification was not warranted due to the PE sample result, which is presented below.

Compound	True Value	Reported Value	Acceptance Limits
2,3,7,8-TCDD	61.5 pg/L	68 pg/L	29.1 – 94.0 pg/L

6. According to the Chain-of-Custody (COC) Record in Project Number G0B250507, the Loureiro Engineering Associates, Inc. sample identification for sample 1138344 was reported as "1138344UF" on the sample container label. The laboratory logged in this sample based on the Loureiro Engineering Associates, Inc. sample identification reported on the COC Record (1138344).

7. According to the Case Narrative for Project Number G0B040517, several samples were included on the COC and were submitted with this group of samples but were placed on hold, per client instructions, and not analyzed. In addition, samples 1138340UF and 1138341UF, included on the COC, are actually the MS and MSD samples of sample 1138339UF and not separate sample locations.

With respect to data usability, the principal areas of concern are blank contamination, out-of-criteria ion abundance ratios, and quantitation below the concentration of the lowest calibration standard. Based on a rigorous review of the data provided, the following organic data qualifiers are offered. The following data usability issues represent an interpretation of the QC results obtained for the project samples. Similarly, the data validation guidelines routinely specify areas of the data that require qualification, yet the methods used for analysis may not require corrective action by the laboratory. Accordingly, the following data usability issues should not be construed as an indication of laboratory performance.

Organic Data Qualifiers

- Due to their presence in associated laboratory or equipment blanks at similar levels, the reported positive results for the following PCDD/PCDF compounds in the Project Number G0B040517 samples listed below should be considered "not-detected" and have been flagged "U" on the data tables. It should be noted that sample volume was taken into consideration when evaluating blank contamination.

Compounds	Sample With Positive Results Qualified as "Not-Detected" ("U")
OCDD; 1,2,3,4,7,8-HxCDF; 1,2,3,6,7,8-HxCDF; 2,3,4,6,7,8-HxCDF; Total HxCDF; and OCDF	1138338UF

Compounds	Sample With Positive Results Qualified as “Not-Detected” (“U”)
OCDD; 1,2,3,6,7,8-HxCDF; 2,3,4,6,7,8-HxCDF; 1,2,3,7,8,9-HxCDF; OCDF, and Total HxCDF	1138339UF
1,2,3,4,7,8-HxCDF; 1,2,3,6,7,8-HxCDF; 2,3,4,6,7,8-HxCDF; 1,2,3,7,8,9-HxCDF; Total HxCDF; and OCDF	1138342UF

- Results reported as EMPCs (flagged “Q” by the laboratory) due to out-of-criteria ion abundance ratios (see Comment #1) have been flagged “EMPC” (unless previously flagged “U” due to blank contamination) on the data tables.

- Although there is no direct reason to question the reported positive results for OCDD in sample 1138342UF or for 1,2,3,4,7,8-HxCDF in sample 1138339UF, similar concentrations of these analytes were observed in an associated laboratory blank and the blank result was an EMPC (see Comment #1). The blank result that is an “EMPC” was not used to qualify these sample results; however, caution should be exercised if using these results in decision-making process.

- Reported positive total homologue results summed from PCDD/PCDF isomer concentrations qualified as estimated (“J”) and/or as “EMPC” should be considered estimated and have been flagged “J” (and/or “EMPC”) on the data tables (unless previously flagged “U”) (see Comment #3).

- Reported positive and EMPC results less than the concentration of the lowest calibration standard should be considered estimated and have been flagged “J” on the data tables.

A complete support documentation of this organic QA review is provided in Section 3 of this report.

B. Conclusions

This QA review has identified several aspects of the data that required qualification. Overall, the majority of the analytical data is acceptable for use as reported by the laboratory. A portion of the results was qualified due to blank contamination, out-of-criteria ion abundance ratios, and quantitation below the concentration of the lowest calibration standard. In order to use any of the data, the data user should understand the qualifications and limitations as specified in this QA review. The Laboratory Case Narrative and Project Chain-of-Custody Record are presented in Section 4 of this report.

Report prepared by:

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ORGANIC DATA QUALIFIERS

ND The compound was not detected at or above the associated numerical value.

U This compound should be considered “not-detected” because it was detected in a blank at a similar level.

R Unusable result; compound may or may not be present in the sample.

J Quantitation is approximate due to limitations identified during the quality assurance review (data validation).

UJ This compound was analyzed for but was not detected. The associated detection limit is probably higher due to a low bias identified during the quality assurance review.

EMPC Chromatographic peaks are present in the expected retention time window; however, the peaks do not meet all of the conditions required for a positive identification. The reported result represents the estimated maximum possible concentration if the PCDD/PCDF was present.

SECTION 2

TARGET ANALYTE SUMMARY

A. PROJECT NUMBER G0B040517

ClientID	Collected	Method	Component	Result	Footnotes	Validation Result	Validation Qualifier	Units	RL
1138338UF	2/2/2010	8290A	2,3,7,8-TCDD	1.8	J Q	1.8	J EMPC	pg/L	9.5
1138338UF	2/2/2010	8290A	Total TCDD	1.8		1.8	J EMPC	pg/L	9.5
1138338UF	2/2/2010	8290A	1,2,3,7,8-PeCDD	ND		ND		pg/L	48
1138338UF	2/2/2010	8290A	Total PeCDD	ND		ND		pg/L	48
1138338UF	2/2/2010	8290A	1,2,3,4,7,8-HxCDD	ND		ND		pg/L	48
1138338UF	2/2/2010	8290A	1,2,3,6,7,8-HxCDD	ND		ND		pg/L	48
1138338UF	2/2/2010	8290A	1,2,3,7,8,9-HxCDD	ND		ND		pg/L	48
1138338UF	2/2/2010	8290A	Total HxCDD	ND		ND		pg/L	48
1138338UF	2/2/2010	8290A	1,2,3,4,6,7,8-HpCDD	1.8	J	1.8	J	pg/L	48
1138338UF	2/2/2010	8290A	Total HpCDD	3.1		3.1	J	pg/L	48
1138338UF	2/2/2010	8290A	OCDD	7.5	J Q B	7.5	U	pg/L	95
1138338UF	2/2/2010	8290A	2,3,7,8-TCDF	ND		ND		pg/L	9.5
1138338UF	2/2/2010	8290A	Total TCDF	ND		ND		pg/L	9.5
1138338UF	2/2/2010	8290A	1,2,3,7,8-PeCDF	ND		ND		pg/L	48
1138338UF	2/2/2010	8290A	2,3,4,7,8-PeCDF	ND		ND		pg/L	48
1138338UF	2/2/2010	8290A	Total PeCDF	ND		ND		pg/L	48
1138338UF	2/2/2010	8290A	1,2,3,4,7,8-HxCDF	0.5	J Q B	0.5	U	pg/L	48
1138338UF	2/2/2010	8290A	1,2,3,6,7,8-HxCDF	0.49	J B	0.49	U	pg/L	48
1138338UF	2/2/2010	8290A	2,3,4,6,7,8-HxCDF	0.54	J Q B	0.54	U	pg/L	48
1138338UF	2/2/2010	8290A	1,2,3,7,8,9-HxCDF	ND		ND		pg/L	48
1138338UF	2/2/2010	8290A	Total HxCDF	1.5		1.5	U	pg/L	48
1138338UF	2/2/2010	8290A	1,2,3,4,6,7,8-HpCDF	1.3	J	1.3	J	pg/L	48
1138338UF	2/2/2010	8290A	1,2,3,4,7,8,9-HpCDF	ND		ND		pg/L	48
1138338UF	2/2/2010	8290A	Total HpCDF	2		2	J	pg/L	48
1138338UF	2/2/2010	8290A	OCDF	2.2	J B	2.2	U	pg/L	95
1138339UF	2/2/2010	8290A	2,3,7,8-TCDD	6.7	J	6.7	J	pg/L	9.5
1138339UF	2/2/2010	8290A	Total TCDD	6.7		6.7	J	pg/L	9.5
1138339UF	2/2/2010	8290A	1,2,3,7,8-PeCDD	ND		ND		pg/L	48
1138339UF	2/2/2010	8290A	Total PeCDD	ND		ND		pg/L	48
1138339UF	2/2/2010	8290A	1,2,3,4,7,8-HxCDD	1.9	J	1.9	J	pg/L	48
1138339UF	2/2/2010	8290A	1,2,3,6,7,8-HxCDD	1.6	J	1.6	J	pg/L	48
1138339UF	2/2/2010	8290A	1,2,3,7,8,9-HxCDD	ND		ND		pg/L	48
1138339UF	2/2/2010	8290A	Total HxCDD	3.6		3.6	J	pg/L	48
1138339UF	2/2/2010	8290A	1,2,3,4,6,7,8-HpCDD	1.6	J	1.6	J	pg/L	48
1138339UF	2/2/2010	8290A	Total HpCDD	2.7		2.7	J	pg/L	48
1138339UF	2/2/2010	8290A	OCDD	7.9	J Q B	7.9	U	pg/L	95
1138339UF	2/2/2010	8290A	2,3,7,8-TCDF	ND		ND		pg/L	9.5
1138339UF	2/2/2010	8290A	Total TCDF	3.1		3.1		pg/L	9.5
1138339UF	2/2/2010	8290A	1,2,3,7,8-PeCDF	1.2	J Q	1.2	J EMPC	pg/L	48
1138339UF	2/2/2010	8290A	2,3,4,7,8-PeCDF	1.4	J Q	1.4	J EMPC	pg/L	48
1138339UF	2/2/2010	8290A	Total PeCDF	5.4		5.4	J EMPC	pg/L	48
1138339UF	2/2/2010	8290A	1,2,3,4,7,8-HxCDF	1.6	J B	1.6	J	pg/L	48
1138339UF	2/2/2010	8290A	1,2,3,6,7,8-HxCDF	1.6	J B	1.6	U	pg/L	48
1138339UF	2/2/2010	8290A	2,3,4,6,7,8-HxCDF	1.5	J Q B	1.5	U	pg/L	48
1138339UF	2/2/2010	8290A	1,2,3,7,8,9-HxCDF	0.99	J Q	0.99	U	pg/L	48
1138339UF	2/2/2010	8290A	Total HxCDF	5.6		5.6	U	pg/L	48
1138339UF	2/2/2010	8290A	1,2,3,4,6,7,8-HpCDF	1.6	J Q	1.6	J EMPC	pg/L	48
1138339UF	2/2/2010	8290A	1,2,3,4,7,8,9-HpCDF	0.82	J Q	0.82	J EMPC	pg/L	48

ClientID	Collected	Method	Component	Result	Footnotes	Validation Result	Validation Qualifier	Units	RL
1138339UF	2/2/2010	8290A	Total HpCDF	2.4		2.4	J EMPC	pg/L	48
1138339UF	2/2/2010	8290A	OCDF	2.7	J Q B	2.7	U	pg/L	95
1138342UF	2/2/2010	8290A	2,3,7,8-TCDD	1.7	J Q	1.7	J EMPC	pg/L	9.4
1138342UF	2/2/2010	8290A	Total TCDD	1.7		1.7	J EMPC	pg/L	9.4
1138342UF	2/2/2010	8290A	1,2,3,7,8-PeCDD	ND		ND		pg/L	47
1138342UF	2/2/2010	8290A	Total PeCDD	ND		ND		pg/L	47
1138342UF	2/2/2010	8290A	1,2,3,4,7,8-HxCDD	ND		ND		pg/L	47
1138342UF	2/2/2010	8290A	1,2,3,6,7,8-HxCDD	ND		ND		pg/L	47
1138342UF	2/2/2010	8290A	1,2,3,7,8,9-HxCDD	ND		ND		pg/L	47
1138342UF	2/2/2010	8290A	Total HxCDD	ND		ND		pg/L	47
1138342UF	2/2/2010	8290A	1,2,3,4,6,7,8-HpCDD	2	J	2	J	pg/L	47
1138342UF	2/2/2010	8290A	Total HpCDD	3.6		3.6	J	pg/L	47
1138342UF	2/2/2010	8290A	OCDD	9.1	J B	9.1	J	pg/L	94
1138342UF	2/2/2010	8290A	2,3,7,8-TCDF	ND		ND		pg/L	9.4
1138342UF	2/2/2010	8290A	Total TCDF	ND		ND		pg/L	9.4
1138342UF	2/2/2010	8290A	1,2,3,7,8-PeCDF	ND		ND		pg/L	47
1138342UF	2/2/2010	8290A	2,3,4,7,8-PeCDF	ND		ND		pg/L	47
1138342UF	2/2/2010	8290A	Total PeCDF	ND		ND		pg/L	47
1138342UF	2/2/2010	8290A	1,2,3,4,7,8-HxCDF	0.71	J Q B	0.71	U	pg/L	47
1138342UF	2/2/2010	8290A	1,2,3,6,7,8-HxCDF	0.67	J Q B	0.67	U	pg/L	47
1138342UF	2/2/2010	8290A	2,3,4,6,7,8-HxCDF	0.68	J B	0.68	U	pg/L	47
1138342UF	2/2/2010	8290A	1,2,3,7,8,9-HxCDF	0.64	J Q	0.64	U	pg/L	47
1138342UF	2/2/2010	8290A	Total HxCDF	2.7		2.7	U	pg/L	47
1138342UF	2/2/2010	8290A	1,2,3,4,6,7,8-HpCDF	1.2	J Q	1.2	J EMPC	pg/L	47
1138342UF	2/2/2010	8290A	1,2,3,4,7,8,9-HpCDF	0.79	J	0.79	J	pg/L	47
1138342UF	2/2/2010	8290A	Total HpCDF	2.6		2.6	J EMPC	pg/L	47
1138342UF	2/2/2010	8290A	OCDF	2.9	J B	2.9	U	pg/L	94
1138343UF	2/2/2010	8290A	2,3,7,8-TCDD	ND		ND		pg/L	9.7
1138343UF	2/2/2010	8290A	Total TCDD	ND		ND		pg/L	9.7
1138343UF	2/2/2010	8290A	1,2,3,7,8-PeCDD	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	Total PeCDD	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	1,2,3,4,7,8-HxCDD	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	1,2,3,6,7,8-HxCDD	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	1,2,3,7,8,9-HxCDD	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	Total HxCDD	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	1,2,3,4,6,7,8-HpCDD	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	Total HpCDD	1.4		1.4		pg/L	49
1138343UF	2/2/2010	8290A	OCDD	4.8	J Q B	4.8	J EMPC	pg/L	97
1138343UF	2/2/2010	8290A	2,3,7,8-TCDF	ND		ND		pg/L	9.7
1138343UF	2/2/2010	8290A	Total TCDF	ND		ND		pg/L	9.7
1138343UF	2/2/2010	8290A	1,2,3,7,8-PeCDF	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	2,3,4,7,8-PeCDF	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	Total PeCDF	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	1,2,3,4,7,8-HxCDF	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	1,2,3,6,7,8-HxCDF	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	2,3,4,6,7,8-HxCDF	0.51	J B	0.51	J	pg/L	49
1138343UF	2/2/2010	8290A	1,2,3,7,8,9-HxCDF	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	Total HxCDF	0.51		0.51	J	pg/L	49

ClientID	Collected	Method	Component	Result	Footnotes	Validation Result	Validation Qualifier	Units	RL
1138343UF	2/2/2010	8290A	1,2,3,4,6,7,8-HpCDF	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	1,2,3,4,7,8,9-HpCDF	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	Total HpCDF	ND		ND		pg/L	49
1138343UF	2/2/2010	8290A	OCDF	1.4	J B	1.4	J	pg/L	97

B. PROJECT NUMBER G0B250507

G0B250507

ClientID	Collected	Method	Component	Result	Footnotes	Validation Result	Validation Qualifier	Units	RL
1138344	2/2/2010	8290A	2,3,7,8-TCDD	68		68		pg/L	10
1138344	2/2/2010	8290A	Total TCDD	68		68		pg/L	10
1138344	2/2/2010	8290A	1,2,3,7,8-PeCDD	ND		ND		pg/L	50
1138344	2/2/2010	8290A	Total PeCDD	ND		ND		pg/L	50
1138344	2/2/2010	8290A	1,2,3,4,7,8-HxCDD	ND		ND		pg/L	50
1138344	2/2/2010	8290A	1,2,3,6,7,8-HxCDD	ND		ND		pg/L	50
1138344	2/2/2010	8290A	1,2,3,7,8,9-HxCDD	ND		ND		pg/L	50
1138344	2/2/2010	8290A	Total HxCDD	ND		ND		pg/L	50
1138344	2/2/2010	8290A	1,2,3,4,6,7,8-HpCDD	1.6	J	1.6	J	pg/L	50
1138344	2/2/2010	8290A	Total HpCDD	3.8	J	3.8	J	pg/L	50
1138344	2/2/2010	8290A	OCDD	4.6	J	4.6	J	pg/L	100
1138344	2/2/2010	8290A	2,3,7,8-TCDF	ND		ND		pg/L	10
1138344	2/2/2010	8290A	Total TCDF	ND		ND		pg/L	10
1138344	2/2/2010	8290A	1,2,3,7,8-PeCDF	ND		ND		pg/L	50
1138344	2/2/2010	8290A	2,3,4,7,8-PeCDF	ND		ND		pg/L	50
1138344	2/2/2010	8290A	Total PeCDF	ND		ND		pg/L	50
1138344	2/2/2010	8290A	1,2,3,4,7,8-HxCDF	ND		ND		pg/L	50
1138344	2/2/2010	8290A	1,2,3,6,7,8-HxCDF	ND		ND		pg/L	50
1138344	2/2/2010	8290A	2,3,4,6,7,8-HxCDF	ND		ND		pg/L	50
1138344	2/2/2010	8290A	1,2,3,7,8,9-HxCDF	ND		ND		pg/L	50
1138344	2/2/2010	8290A	Total HxCDF	ND		ND		pg/L	50
1138344	2/2/2010	8290A	1,2,3,4,6,7,8-HpCDF	1.2	J	1.2	J	pg/L	50
1138344	2/2/2010	8290A	1,2,3,4,7,8,9-HpCDF	ND		ND		pg/L	50
1138344	2/2/2010	8290A	Total HpCDF	2.3	J	2.3	J	pg/L	50
1138344	2/2/2010	8290A	OCDF	2.2	J	2.2	J	pg/L	100

SECTION 3

ORGANIC DATA SUPPORT DOCUMENTATION

A. PROJECT NUMBER G0B040517

Organic Analyses Support Documentation

Environmental Standards Project Name: Lowrey's
Sample Collection Dates: 2/2/10
Job Number: 2010SSQR.A000
Project Manager: KRC
Laboratory: TA

Reviewed By: [illegible]
Approved By: [illegible]
Completion Date: 3/9/10

Applicable Sample No's.: ☑ Refer to Table 1 in the Quality Assurance Review

Deliverables: CLP (Lite) ☑
Tier I ☐
Tier II ☐
Limited ☐
Other

Sample No.	Lab. Control No.
Project # 60B040517	

The following table indicates criteria which were examined, the identified problems, and support documentation attachments.

	Criteria Examined in Detail: Check (✓) If Yes or Footnote Letter for Comments Below				Problems Identified: Check (✓) If Yes or Footnote Number for Comments Below				Support Documentation Attachments: Check (✓) If Yes -- or Identify Attachment No.			
	VOA Method	BNA Method	PEST / PCB Method	Other Method(s) 8290A	VOA Method	BNA Method	PEST / PCB Method	Other Method(s) 8290A	VOA Method	BNA Method	PEST / PCB Method	Other Method(s) 8290A
Holding Times				✓								✓
Blank Analysis Results: Target Compounds				✓				✓	1			✓
Blank Analysis Results: TICs												
System Mntr. Cmpds. &/or Surrogate Spike Rslts.				✓								✓
Matrix Spike / Matrix Spike Duplicate Results				✓								✓
Blank Spike Results				✓								✓
Duplicate Analysis Results ☑ Field ☐ Lab				✓								✓
Qualitative Identification: Target Compounds				✓				✓	2			✓
Qualitative Identification: TICs												
DFTPP & BFB Mass Tuning PFK				✓								✓
GC Instrument Performance				✓								✓
Initial Calibrations				✓								✓
Continuing Calibrations				✓								✓
Quantitation of Results				✓								✓
DDT / Endrin Breakdown												
Surrogate Retention Time Shifts				✓								✓
Internal Standards Performance				✓								✓
Resolution Check Standards				✓								✓
Analytical Sequence				✓								✓
Florisil Cartridge Check & GPC Calibration												
GC Column Agreement												
Others: Condition Upon Receipt				✓								✓ (COC)

Comments: (1) Blank contamination; (2) EMPCs.

Data acceptable unless otherwise qualified.

BLANK ANALYSIS RESULTS FOR TARGET ORGANIC COMPOUNDS

Fraction (1)	Matrix (Aq., S)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit 5x	Qualification Limit 10x
D/F	Aq	MB	GOB120000-24MB	1,2,3,6,7,8-HxCDF 2,4,10 (all samples)	0.36 pg/L	1.8 pg/L	—
				2,3,4,6,7,8-HxCDF 2,4,10 (all samples)	0.59	2.95	—
				Total HxCDF	1.2	6.0	—
				OCDD 2,4,10 (All samples)	4.5	22.5	EMPC
				1,2,3,4,7,8-HxCDF 2 & 10	0.64	3.2	EMPC
				1,2,3,7,8,9-HxCDF 4 & 10	0.45	2.25	EMPC
				OCDF 4	1.4	7.0	EMPC
		EB	11383434F	Total HpCDD	1.4 pg/L	7.0 pg/L	—
				2,3,4,6,7,8-HxCDF 2,4,10 (all samples)	0.51	2.55	—
				Total HxCDF	0.51	2.55	—
				OCDF 2,4,10 (All samples)	1.4	7.0	—
				OCDD 2,4,10 (All Samples)	4.8	24	EMPC

(*) All samples = investigative samples (not including EB or PE)

(*) EMPCs in blanks were not used to blank qualify legit. D/Fs in samples.

(*) Totals were blank qualified when all D/Fs that contributed to totals were blank qualified.

1 – V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: _____

Aq. = Aqueous; S = Solid D/F = Dioxin/Furan

2 – MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank
IB = Instrument Blank; SB = Storage Blank

* = Inferred from instrument printouts and/or supporting data; mass spectra not provided.

+ = Contaminant observed on one column only.

Notes: See cover pg. for impact on data quality.

EVALUATION OF DUPLICATE ANALYSIS PRECISION

Units pg/L	PRECISION OBJECTIVES[1]		
	Analyte > or = 5 X RL	RPD < or =	20
	Analyte < 5 X RL	Difference < or = RL Times	1

ANALYTE	1138338UF Analyte Concentration[2]	Qual	RL	1138342UF Analyte Concentration[2]	Qual	RL	Difference	RPD	Notes
2,3,7,8-TCDD	1.8	J	9.5	1.7	J	9.4	0.1	NA	IN
Total TCDD	1.8		9.5	1.7		9.4	0.1	NA	IN
1,2,3,4,6,7,8-HpCDD	1.8	J	48	2	J	47	0.2	NA	IN
Total HpCDD	3.1		48	3.6		47	0.5	NA	IN
OCDD	7.5	U	95	9.1	U	94	1.6	NA	IN
1,2,3,4,7,8-HxCDF	0.5	U	48	0.71	U	47	0.21	NA	IN
1,2,3,6,7,8-HxCDF	0.49	U	48	0.67	U	47	0.18	NA	IN
2,3,4,6,7,8-HxCDF	0.54	U	48	0.68	U	47	0.14	NA	IN
1,2,3,7,8,9-HxCDF	0.43	U	48	0.64	U	47	0.21	NA	IN
Total HxCDF	1.5	U	48	2.7	U	47	1.2	NA	IN
1,2,3,4,6,7,8-HpCDF	1.3	J	48	1.2	J	47	0.1	NA	IN
1,2,3,4,7,8,9-HpCDF	0.69	U	48	0.79	J	47	0.1	NA	IN
Total HpCDF	2		48	2.6		47	0.6	NA	IN
OCDF	2.2	U	95	2.9	U	94	0.7	NA	IN
							NA	#DIV/0!	#DIV/0!
							NA	#DIV/0!	#DIV/0!
							NA	#DIV/0!	#DIV/0!

NOTES:

1) Enter the project-specific or default acceptance criteria

2) For not-detected results, enter the method detection limit in the Concentrations column and a "U" in the Qual column.

Qual) Column to enter J, U, U*, or B

RPD) Relative Percent Difference

RL) Reporting Limit

J) The analyte concentration should be considered estimated.

U) The analyte was not-detected in the sample. The numerical value will be used for comparison purposes.

U* or B) The result was blank qualified. The numerical value will be used for comparison purposes.

NA) The RPD or Difference is not applicable.

1) Both results are > or = 5 X RL and RPD over acceptance limit, flag positive results "J".

2) At least one of the results is < 5 X RL and difference is over acceptance limit, flag positive results "J" and "not-detected" results "UJ".

Comments:

Loureiro Engineering Associates Inc

Sample ID: 1138338UF – Surp

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 002	**Work Order #....:**	LT76V1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.95
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1054.3 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	**1.8**	**J Q**	**9.5**	**0.79**	**pg/L**
Total TCDD	**1.8**		**9.5**	**0.79**	**pg/L**
1,2,3,7,8-PeCDD	ND		48	1.8	pg/L
Total PeCDD	ND		48	1.8	pg/L
1,2,3,4,7,8-HxCDD	ND		48	1.3	pg/L
1,2,3,6,7,8-HxCDD	ND		48	1.0	pg/L
1,2,3,7,8,9-HxCDD	ND		48	1.0	pg/L
Total HxCDD	ND		48	1.3	pg/L
1,2,3,4,6,7,8-HpCDD	**1.8**	**J**	**48**	**1.0**	**pg/L**
Total HpCDD	**3.1**		**48**	**1.0**	**pg/L**
OCDD	**7.5**	**J Q B**	**95**	**0.71**	**pg/L**
2,3,7,8-TCDF	ND		9.5	0.39	pg/L
Total TCDF	ND		9.5	0.39	pg/L
1,2,3,7,8-PeCDF	ND		48	0.58	pg/L
2,3,4,7,8-PeCDF	ND		48	0.60	pg/L
Total PeCDF	ND		48	0.60	pg/L
1,2,3,4,7,8-HxCDF	**0.50**	**J Q B**	**48**	**0.42**	**pg/L**
1,2,3,6,7,8-HxCDF	**0.49**	**J B**	**48**	**0.35**	**pg/L**
2,3,4,6,7,8-HxCDF	**0.54**	**J Q B**	**48**	**0.39**	**pg/L**
1,2,3,7,8,9-HxCDF	ND		48	0.43	pg/L
Total HxCDF	**1.5**		**48**	**0.39**	**pg/L**
1,2,3,4,6,7,8-HpCDF	**1.3**	**J**	**48**	**0.58**	**pg/L**
1,2,3,4,7,8,9-HpCDF	ND		48	0.69	pg/L
Total HpCDF	**2.0**		**48**	**0.63**	**pg/L**
OCDF	**2.2**	**J B**	**95**	**0.48**	**pg/L**

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Loureiro Engineering Associates Inc

Sample ID: 1138338UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 002	**Work Order #....:**	LT76V1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.95
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1054.3 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	40 - 135
13C-1,2,3,7,8-PeCDD	74	40 - 135
13C-1,2,3,6,7,8-HxCDD	88	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	99	40 - 135
13C-OCDD	89	40 - 135
13C-2,3,7,8-TCDF	87	40 - 135
13C-1,2,3,7,8-PeCDF	72	40 - 135
13C-1,2,3,4,7,8-HxCDF	92	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	96	40 - 135

QUALIFIERS

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

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Loureiro Engineering Associates Inc

Sample ID: 1138339UF

Sampler

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 004	**Work Order #....:**	LT76X1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.95
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1051.6 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	**6.7**	**J**	**9.5**	**0.74**	**pg/L**
Total TCDD	**6.7**		**9.5**	**0.74**	**pg/L**
1,2,3,7,8-PeCDD	ND		48	1.8	pg/L
Total PeCDD	ND		48	1.8	pg/L
1,2,3,4,7,8-HxCDD	**1.9**	**J**	**48**	**1.7**	**pg/L**
1,2,3,6,7,8-HxCDD	**1.6**	**J**	**48**	**1.3**	**pg/L**
1,2,3,7,8,9-HxCDD	ND		48	1.3	pg/L
Total HxCDD	**3.6**		**48**	**1.4**	**pg/L**
1,2,3,4,6,7,8-HpCDD	**1.6**	**J**	**48**	**1.2**	**pg/L**
Total HpCDD	**2.7**		**48**	**1.2**	**pg/L**
OCDD	**7.9**	**J Q B**	**95**	**0.87**	**pg/L**
2,3,7,8-TCDF	ND		9.5	0.43	pg/L
Total TCDF	**3.1**		**9.5**	**0.43**	**pg/L**
1,2,3,7,8-PeCDF	**1.2**	**J Q**	**48**	**0.59**	**pg/L**
2,3,4,7,8-PeCDF	**1.4**	**J Q**	**48**	**0.61**	**pg/L**
Total PeCDF	**5.4**		**48**	**0.60**	**pg/L**
1,2,3,4,7,8-HxCDF	**1.6**	**J B**	**48**	**0.43**	**pg/L**
1,2,3,6,7,8-HxCDF	**1.6**	**J B**	**48**	**0.36**	**pg/L**
2,3,4,6,7,8-HxCDF	**1.5**	**J Q B**	**48**	**0.40**	**pg/L**
1,2,3,7,8,9-HxCDF	**0.99**	**J Q**	**48**	**0.44**	**pg/L**
Total HxCDF	**5.6**		**48**	**0.41**	**pg/L**
1,2,3,4,6,7,8-HpCDF	**1.6**	**J Q**	**48**	**0.56**	**pg/L**
1,2,3,4,7,8,9-HpCDF	**0.82**	**J Q**	**48**	**0.67**	**pg/L**
Total HpCDF	**2.4**		**48**	**0.61**	**pg/L**
OCDF	**2.7**	**J Q B**	**95**	**0.64**	**pg/L**

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Loureiro Engineering Associates Inc

Sample ID: 1138339UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 004	**Work Order #....:**	LT76X1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.95
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1051.6 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	88	40 - 135
13C-1,2,3,7,8-PeCDD	73	40 - 135
13C-1,2,3,6,7,8-HxCDD	98	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	95	40 - 135
13C-OCDD	81	40 - 135
13C-2,3,7,8-TCDF	92	40 - 135
13C-1,2,3,7,8-PeCDF	74	40 - 135
13C-1,2,3,4,7,8-HxCDF	101	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	100	40 - 135

QUALIFIERS

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

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Loureiro Engineering Associates Inc

Sample ID: 1138342UF 5a/FD

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 010	**Work Order #....:**	LT7691AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.94
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1055.5 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	**1.7**	**J Q**	**9.4**	**0.87**	**pg/L**
Total TCDD	**1.7**		**9.4**	**0.87**	**pg/L**
1,2,3,7,8-PeCDD	ND		47	1.7	pg/L
Total PeCDD	ND		47	1.7	pg/L
1,2,3,4,7,8-HxCDD	ND		47	1.5	pg/L
1,2,3,6,7,8-HxCDD	ND		47	1.1	pg/L
1,2,3,7,8,9-HxCDD	ND		47	1.2	pg/L
Total HxCDD	ND		47	1.5	pg/L
1,2,3,4,6,7,8-HpCDD	**2.0**	**J**	**47**	**1.1**	**pg/L**
Total HpCDD	**3.6**		**47**	**1.1**	**pg/L**
OCDD	**9.1**	**J B**	**94**	**0.90**	**pg/L**
2,3,7,8-TCDF	ND		9.4	0.46	pg/L
Total TCDF	ND		9.4	0.46	pg/L
1,2,3,7,8-PeCDF	ND		47	0.60	pg/L
2,3,4,7,8-PeCDF	ND		47	0.62	pg/L
Total PeCDF	ND		47	0.62	pg/L
1,2,3,4,7,8-HxCDF	**0.71**	**J Q B**	**47**	**0.61**	**pg/L**
1,2,3,6,7,8-HxCDF	**0.67**	**J Q B**	**47**	**0.50**	**pg/L**
2,3,4,6,7,8-HxCDF	**0.68**	**J B**	**47**	**0.56**	**pg/L**
1,2,3,7,8,9-HxCDF	**0.64**	**J Q** B	**47**	**0.62**	**pg/L**
Total HxCDF	**2.7**		**47**	**0.57**	**pg/L**
1,2,3,4,6,7,8-HpCDF	**1.2**	**J Q**	**47**	**0.58**	**pg/L**
1,2,3,4,7,8,9-HpCDF	**0.79**	**J**	**47**	**0.68**	**pg/L**
Total HpCDF	**2.6**		**47**	**0.63**	**pg/L**
OCDF	**2.9**	**J B**	**94**	**0.68**	**pg/L**

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Loureiro Engineering Associates Inc

Sample ID: 1138342UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 010	**Work Order #....:**	LT7691AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.94
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1055.5 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	90	40 - 135
13C-1,2,3,7,8-PeCDD	74	40 - 135
13C-1,2,3,6,7,8-HxCDD	93	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	104	40 - 135
13C-OCDD	94	40 - 135
13C-2,3,7,8-TCDF	93	40 - 135
13C-1,2,3,7,8-PeCDF	76	40 - 135
13C-1,2,3,4,7,8-HxCDF	106	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	107	40 - 135

QUALIFIERS

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

Loureiro Engineering Associates Inc

Sample ID: 1138343UF

Eq. BLK

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 012	**Work Order #....:**	LT77C1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.97
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1025.2 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		9.7	0.87	pg/L
Total TCDD	ND		9.7	0.87	pg/L
1,2,3,7,8-PeCDD	ND		49	1.9	pg/L
Total PeCDD	ND		49	1.9	pg/L
1,2,3,4,7,8-HxCDD	ND		49	1.7	pg/L
1,2,3,6,7,8-HxCDD	ND		49	1.3	pg/L
1,2,3,7,8,9-HxCDD	ND		49	1.3	pg/L
Total HxCDD	ND		49	1.7	pg/L
1,2,3,4,6,7,8-HpCDD	ND		49	1.1	pg/L
Total HpCDD	**1.4**		**49**	**1.1**	**pg/L**
OCDD	**4.8**	**J Q B**	**97**	**0.66**	**pg/L**
2,3,7,8-TCDF	ND		9.7	0.40	pg/L
Total TCDF	ND		9.7	0.40	pg/L
1,2,3,7,8-PeCDF	ND		49	0.59	pg/L
2,3,4,7,8-PeCDF	ND		49	0.61	pg/L
Total PeCDF	ND		49	0.61	pg/L
1,2,3,4,7,8-HxCDF	ND		49	0.53	pg/L
1,2,3,6,7,8-HxCDF	ND		49	0.44	pg/L
2,3,4,6,7,8-HxCDF	**0.51**	**J B**	**49**	**0.49**	**pg/L**
1,2,3,7,8,9-HxCDF	ND		49	0.54	pg/L
Total HxCDF	**0.51**		**49**	**0.50**	**pg/L**
1,2,3,4,6,7,8-HpCDF	ND		49	0.72	pg/L
1,2,3,4,7,8,9-HpCDF	ND		49	0.84	pg/L
Total HpCDF	ND		49	0.84	pg/L
OCDF	**1.4**	**J B**	**97**	**0.62**	**pg/L**

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Loureiro Engineering Associates Inc

Sample ID: 1138343UF

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B040517 - 012	**Work Order #....:**	LT77C1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	0.97
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1025.2 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	82	40 - 135
13C-1,2,3,7,8-PeCDD	66	40 - 135
13C-1,2,3,6,7,8-HxCDD	93	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	90	40 - 135
13C-OCDD	77	40 - 135
13C-2,3,7,8-TCDF	86	40 - 135
13C-1,2,3,7,8-PeCDF	68	40 - 135
13C-1,2,3,4,7,8-HxCDF	95	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	93	40 - 135

QUALIFIERS

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

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Method Blank Report

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B120000 - 244B	**Work Order #....:**	LVLQM1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	1
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1000 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	0.69	pg/L
Total TCDD	ND		10	0.69	pg/L
1,2,3,7,8-PeCDD	ND		50	1.0	pg/L
Total PeCDD	ND		50	1.0	pg/L
1,2,3,4,7,8-HxCDD	ND		50	1.5	pg/L
1,2,3,6,7,8-HxCDD	ND		50	1.2	pg/L
1,2,3,7,8,9-HxCDD	ND		50	1.2	pg/L
Total HxCDD	ND		50	1.5	pg/L
1,2,3,4,6,7,8-HpCDD	ND		50	1.3	pg/L
Total HpCDD	ND		50	1.3	pg/L
OCDD	**4.5**	**J Q**	**100**	**0.80**	**pg/L**
2,3,7,8-TCDF	ND		10	0.38	pg/L
Total TCDF	ND		10	0.38	pg/L
1,2,3,7,8-PeCDF	ND		50	0.24	pg/L
2,3,4,7,8-PeCDF	ND		50	0.25	pg/L
Total PeCDF	ND		50	0.24	pg/L
1,2,3,4,7,8-HxCDF	**0.64**	**J Q**	**50**	**0.40**	**pg/L**
1,2,3,6,7,8-HxCDF	**0.36**	**J**	**50**	**0.33**	**pg/L**
2,3,4,6,7,8-HxCDF	**0.59**	**J**	**50**	**0.37**	**pg/L**
1,2,3,7,8,9-HxCDF	**0.45**	**J Q**	**50**	**0.41**	**pg/L**
Total HxCDF	**1.2**		**50**	**0.37**	**pg/L**
1,2,3,4,6,7,8-HpCDF	ND		50	0.66	pg/L
1,2,3,4,7,8,9-HpCDF	ND		50	0.78	pg/L
Total HpCDF	ND		50	0.71	pg/L
OCDF	**1.4**	**J Q**	**100**	**0.90**	**pg/L**

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Method Blank Report

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B120000 - 244B	**Work Order #....:**	LVLQM1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	1
Prep Date....:	02/12/10	**Analysis Date....:**	02/17/10		
Prep Batch # ....:	0043244	**Instrument ID....:**	4D5		
Initial Wgt/Vol :	1000 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	40 - 135
13C-1,2,3,7,8-PeCDD	89	40 - 135
13C-1,2,3,6,7,8-HxCDD	90	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	95	40 - 135
13C-OCDD	93	40 - 135
13C-2,3,7,8-TCDF	82	40 - 135
13C-1,2,3,7,8-PeCDF	81	40 - 135
13C-1,2,3,4,7,8-HxCDF	91	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	90	40 - 135

QUALIFIERS

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

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MATRIX/MATRIX SPIKE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	G0B040517	**Work Order # ...:**	LT76X1AC-MS	**Matrix .....:**	WATER
OS Lot-Sample# :	G0B040517 - 004		LT76X1AD-MSD		
Prep Date .....:	02/12/10	**Analysis Date ..:**	02/17/10		
Prep Batch # ...:	0043244				
Dilution Factor :	0.95				
Analyst ID.....:	Alora Kuczynski	**Instrument ID..:**	4D5	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	1051.6 mL				

PARAMETER	SAMPLE AMOUNT	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
2,3,7,8-TCDD	6.7	200	207	pg/L	100	(64 - 142)		
	6.7	200	200	pg/L	97	(64 - 142)	3.4	(0 - 45)
1,2,3,7,8-PeCDD	ND	1000	942	pg/L	94	(71 - 140)		
	ND	1000	925	pg/L	92	(71 - 140)	1.9	(0 - 35)
1,2,3,4,7,8-HxCDD	1.9	1000	982	pg/L	98	(56 - 146)		
	1.9	1000	982	pg/L	98	(56 - 146)	0.010	(0 - 45)
1,2,3,6,7,8-HxCDD	1.6	1000	966	pg/L	96	(73 - 144)		
	1.6	1000	984	pg/L	98	(73 - 144)	1.8	(0 - 35)
1,2,3,7,8,9-HxCDD	ND	1000	978	pg/L	98	(71 - 151)		
	ND	1000	975	pg/L	97	(71 - 151)	0.28	(0 - 36)
1,2,3,4,6,7,8-HpCDD	1.6	1000	1040	pg/L	104	(78 - 139)		
	1.6	1000	1010	pg/L	101	(78 - 139)	2.3	(0 - 28)
OCDD	7.9	2000	2070	pg/L	103	(80 - 132)		
	7.9	2000	2070	pg/L	103	(80 - 132)	0.35	(0 - 26)
2,3,7,8-TCDF	ND	200	209	pg/L	104	(71 - 142)		
	ND	200	198	pg/L	99	(71 - 142)	5.2	(0 - 35)
1,2,3,7,8-PeCDF	1.2	1000	1070	pg/L	107	(76 - 135)		
	1.2	1000	1090	pg/L	109	(76 - 135)	1.8	(0 - 33)
2,3,4,7,8-PeCDF	1.4	1000	1020	pg/L	101	(74 - 137)		
	1.4	1000	1050	pg/L	105	(74 - 137)	3.5	(0 - 39)
1,2,3,4,7,8-HxCDF	1.6	1000	1050	pg/L	105	(75 - 131)		
	1.6	1000	1030	pg/L	103	(75 - 131)	1.8	(0 - 26)
1,2,3,6,7,8-HxCDF	1.6	1000	1010	pg/L	101	(76 - 133)		
	1.6	1000	979	pg/L	98	(76 - 133)	3.0	(0 - 32)
2,3,4,6,7,8-HxCDF	1.5	1000	1020	pg/L	102	(80 - 137)		
	1.5	1000	1000	pg/L	100	(80 - 137)	1.6	(0 - 28)
1,2,3,7,8,9-HxCDF	0.99	1000	920	pg/L	92	(77 - 142)		
	0.99	1000	912	pg/L	91	(77 - 142)	0.82	(0 - 30)
1,2,3,4,6,7,8-HpCDF	1.6	1000	1070	pg/L	107	(79 - 133)		
	1.6	1000	1060	pg/L	106	(79 - 133)	1.3	(0 - 25)
1,2,3,4,7,8,9-HpCDF	0.82	1000	986	pg/L	99	(83 - 130)		
	0.82	1000	964	pg/L	96	(83 - 130)	2.2	(0 - 25)
OCDF	2.7	2000	2070	pg/L	103	(72 - 140)		
	2.7	2000	2060	pg/L	103	(72 - 140)	0.11	(0 - 35)

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MATRIX/MATRIX SPIKE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	G0B040517	**Work Order # ...:**	LT76X1AC-MS	**Matrix .....:**	WATER
OS Lot-Sample# :	G0B040517 - 004		LT76X1AD-MSD		
Prep Date .....:	02/12/10	**Analysis Date ..:**	02/17/10		
Prep Batch # ...:	0043244				
Dilution Factor :	0.95				
Analyst ID.....:	Alora Kuczynski	**Instrument ID..:**	4D5	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	1051.6 mL				

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	80	(40 - 135)
	88	(40 - 135)
13C-1,2,3,7,8-PeCDD	66	(40 - 135)
	72	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	90	(40 - 135)
	97	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	93	(40 - 135)
	97	(40 - 135)
13C-OCDD	81	(40 - 135)
	80	(40 - 135)
13C-2,3,7,8-TCDF	83	(40 - 135)
	93	(40 - 135)
13C-1,2,3,7,8-PeCDF	67	(40 - 135)
	73	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	97	(40 - 135)
	107	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	94	(40 - 135)
	99	(40 - 135)

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	G0B040517	**Work Order # ...:**	LVLQM1AC-LCS	**Matrix .....:**	WATER
LCS Lot-Sample# :	G0B120000 - 244				
Prep Date .....:	02/12/10	**Analysis Date ..:**	02/17/10		
Prep Batch # ...:	0043244				
Dilution Factor :	1				
Analyst ID.....:	Alora Kuczynski	**Instrument ID..:**	4D5	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	1000 mL				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS
2,3,7,8-TCDD	**200**	**212**	**pg/L**	**106**	**(64 - 142)**
1,2,3,7,8-PeCDD	**1000**	**1020**	**pg/L**	**102**	**(71 - 140)**
1,2,3,4,7,8-HxCDD	**1000**	**1100**	**pg/L**	**110**	**(56 - 146)**
1,2,3,6,7,8-HxCDD	**1000**	**1030**	**pg/L**	**103**	**(73 - 144)**
1,2,3,7,8,9-HxCDD	**1000**	**1060**	**pg/L**	**106**	**(71 - 151)**
1,2,3,4,6,7,8-HpCDD	**1000**	**1090**	**pg/L**	**109**	**(78 - 139)**
OCDD	**2000**	**2170**	**pg/L**	**108**	**(80 - 132)**
2,3,7,8-TCDF	**200**	**214**	**pg/L**	**107**	**(71 - 142)**
1,2,3,7,8-PeCDF	**1000**	**1170**	**pg/L**	**117**	**(76 - 135)**
2,3,4,7,8-PeCDF	**1000**	**1140**	**pg/L**	**114**	**(74 - 137)**
1,2,3,4,7,8-HxCDF	**1000**	**1110**	**pg/L**	**111**	**(75 - 131)**
1,2,3,6,7,8-HxCDF	**1000**	**1050**	**pg/L**	**105**	**(76 - 133)**
2,3,4,6,7,8-HxCDF	**1000**	**1090**	**pg/L**	**109**	**(80 - 137)**
1,2,3,7,8,9-HxCDF	**1000**	**969**	**pg/L**	**97**	**(77 - 142)**
1,2,3,4,6,7,8-HpCDF	**1000**	**1130**	**pg/L**	**113**	**(79 - 133)**
1,2,3,4,7,8,9-HpCDF	**1000**	**1010**	**pg/L**	**101**	**(83 - 130)**
OCDF	**2000**	**2150**	**pg/L**	**107**	**(72 - 140)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	80	(40 - 135)
13C-1,2,3,7,8-PeCDD	68	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	87	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	89	(40 - 135)
13C-OCDD	77	(40 - 135)
13C-2,3,7,8-TCDF	82	(40 - 135)
13C-1,2,3,7,8-PeCDF	67	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	96	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	91	(40 - 135)

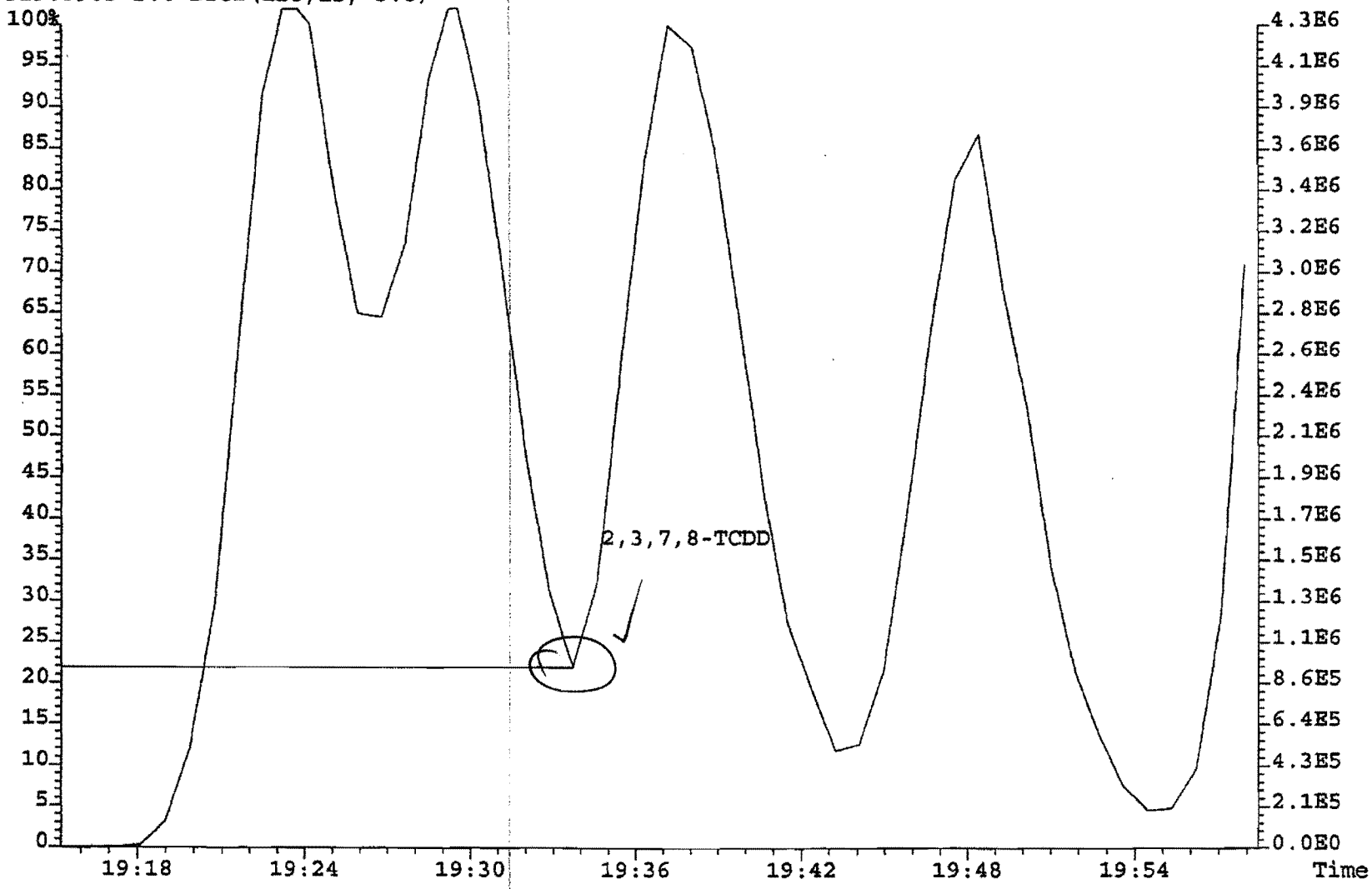
Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

.ata file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
04FE104D5	1	STO204	CS-3 09DXN425				1.00000	
04FE104D5	2	STO204A	CS-1 09DXN422				1.00000	
04FE104D5	3	STO204B	CS-2 09DXN423				1.00000	
04FE104D5	4	STO204C	CS-5 09DXN456				1.00000	
04FE104D5	5	STO204D	CS-4 09DXN426				1.00000	
04FE104D5	6	CPO204	DB-5 CPSM 3732-04				1.00000	
04FE104D5	7	STO204E	2nd Source 09DXN449				1.00000	
04FE104D5	8						1.00000	
04FE104D5	9						1.00000	
04FE104D5	10						1.00000	
04FE104D5	11						1.00000	
04FE104D5	12						1.00000	
04FE104D5	13						1.00000	
04FE104D5	14		KSS 02-04-10				1.00000	
04FE104D5	15						1.00000	

File:04FE104D5 #1-578 Acq: 4-FEB-2010 13:22:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:CP0204 :DB-5 CPSM 3732-04 Exp:DIOXIN
319.8965 S:6 BSUB(128,15,-3.0)



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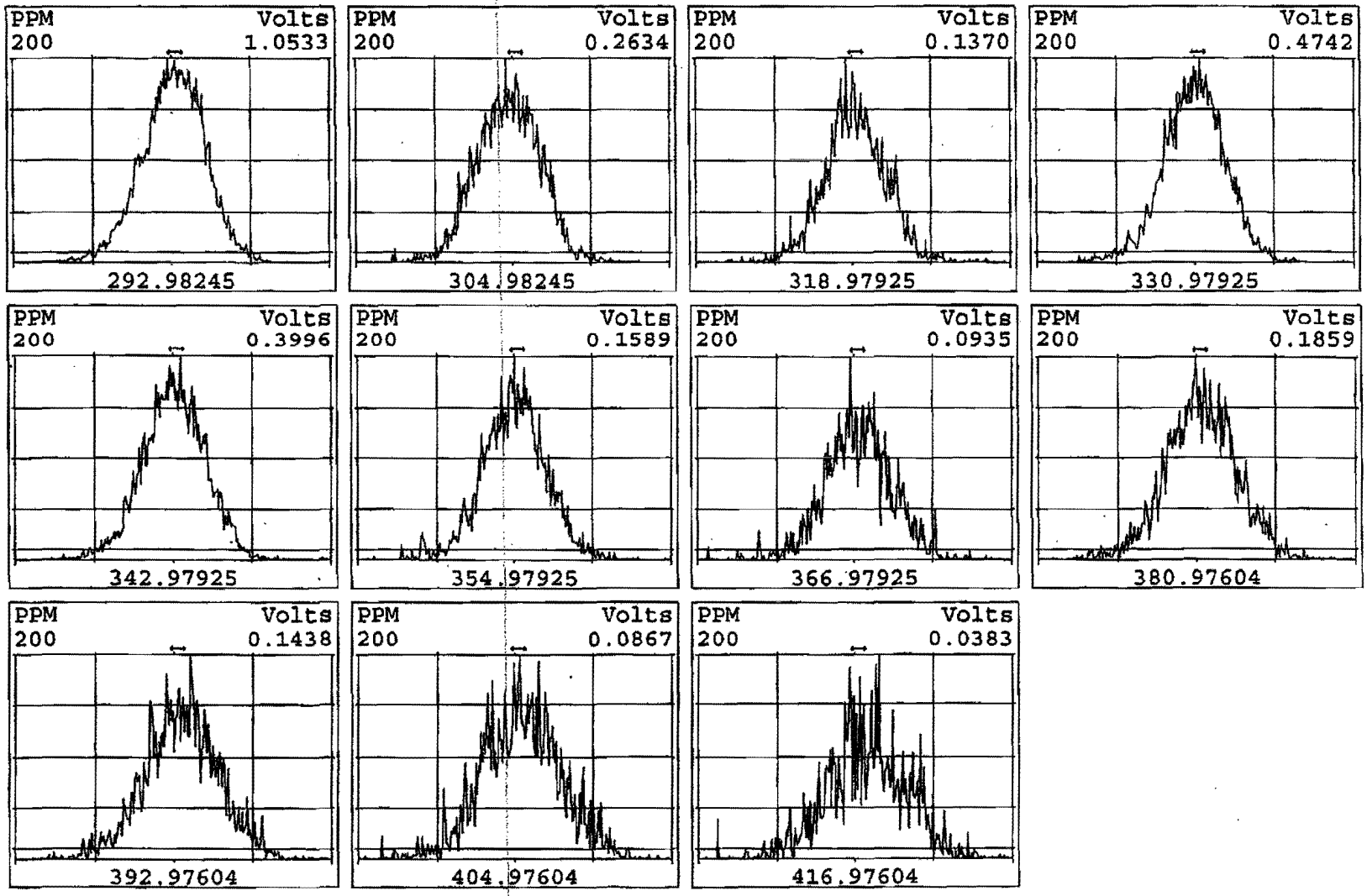
Experiment:DIOXIN Function:1 Reference:PFK



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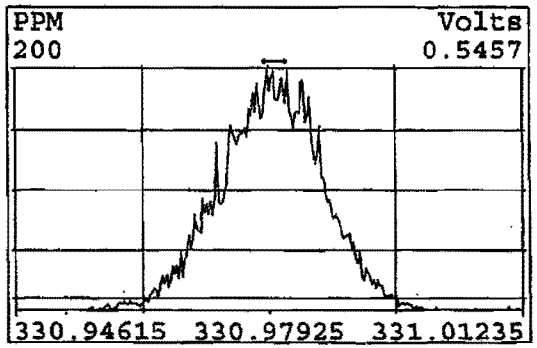
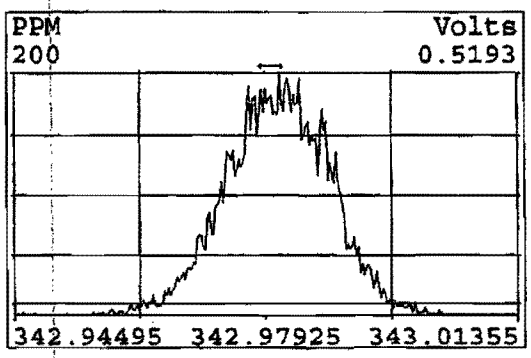
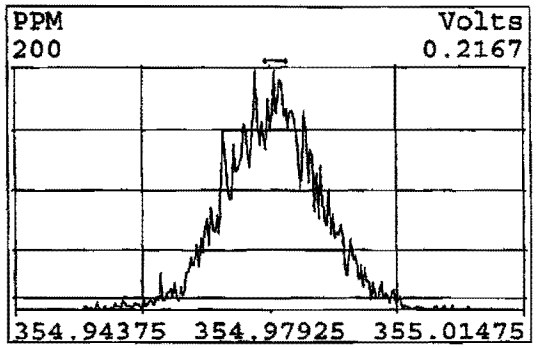
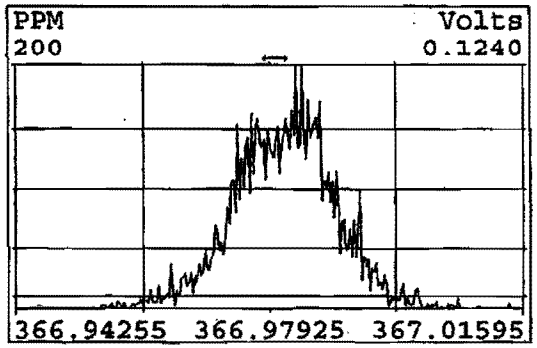
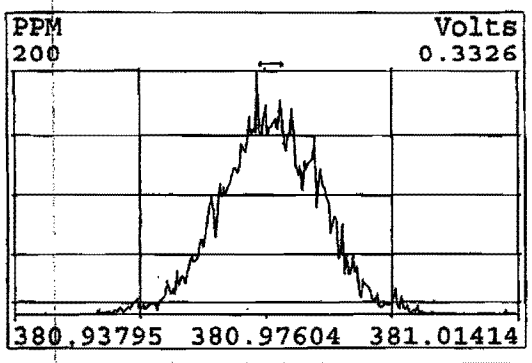
Experiment:DIOXIN Function:2 Reference:PFK

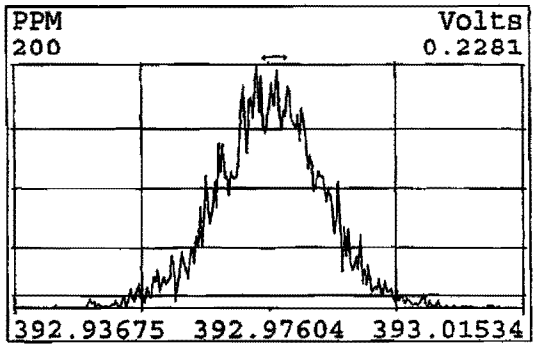


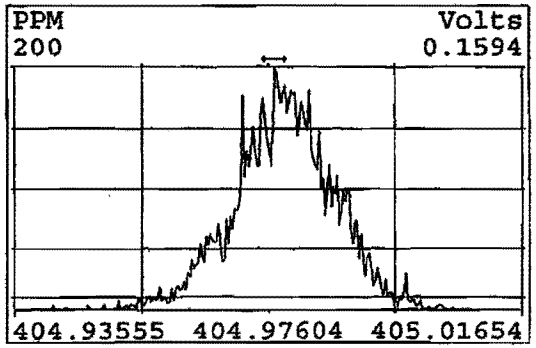


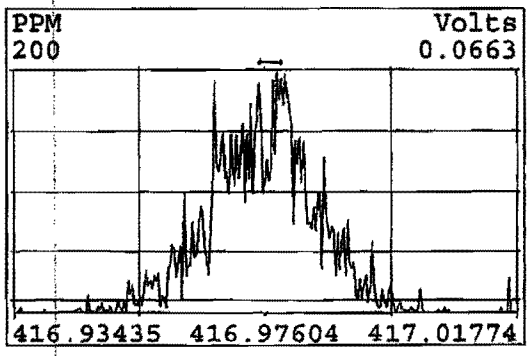




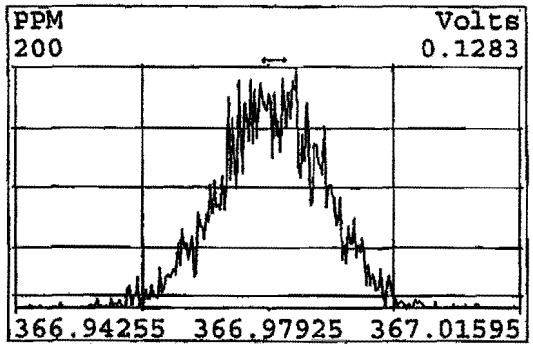


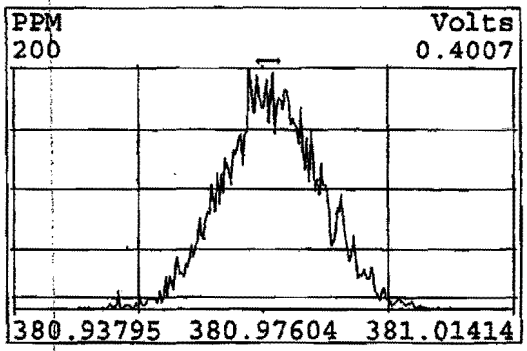


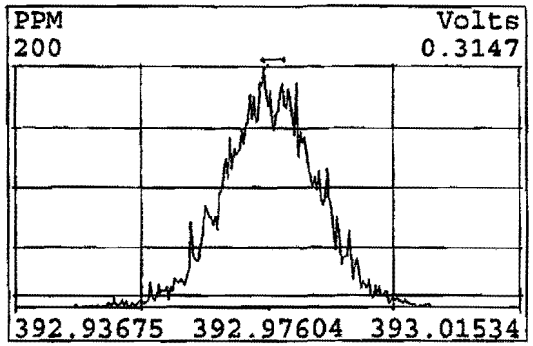


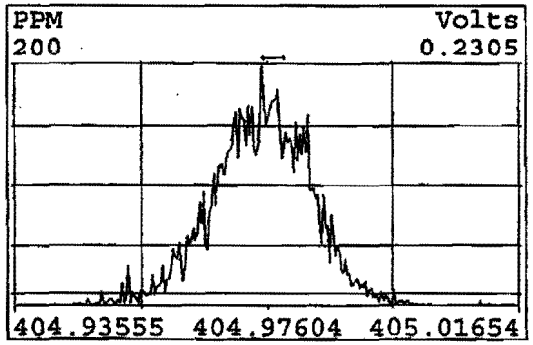


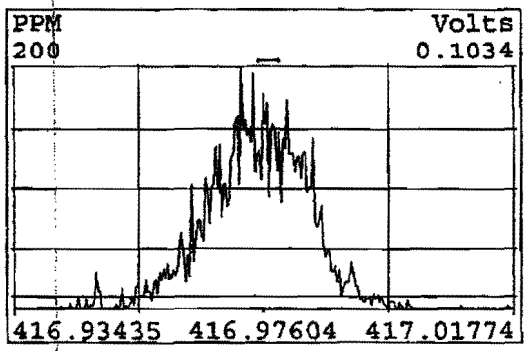
Peak Locate Examination: 4-FEB-2010:09:41 File:04FE104D5
Experiment:DIOXIN Function:3 Reference:PFK

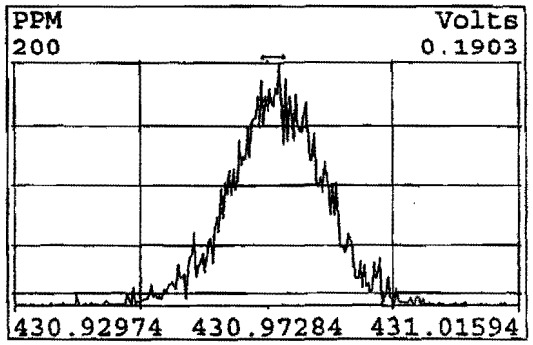


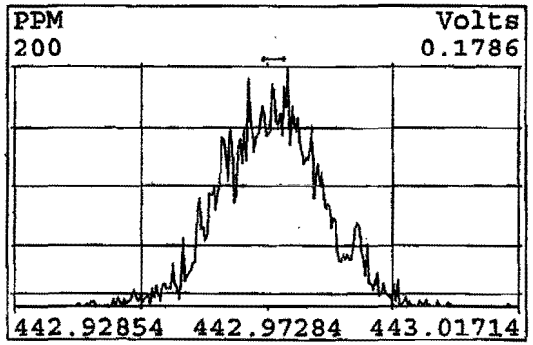


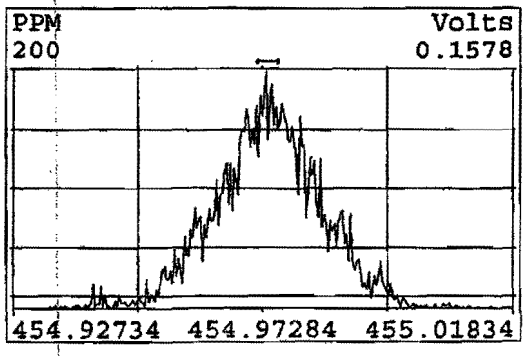




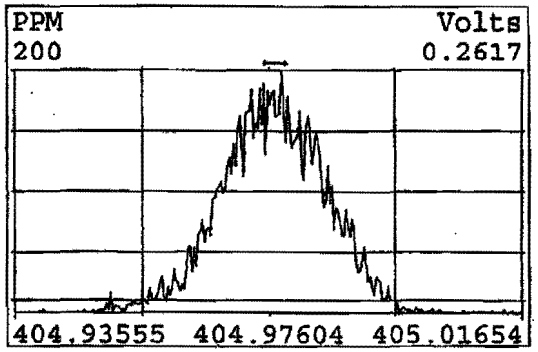


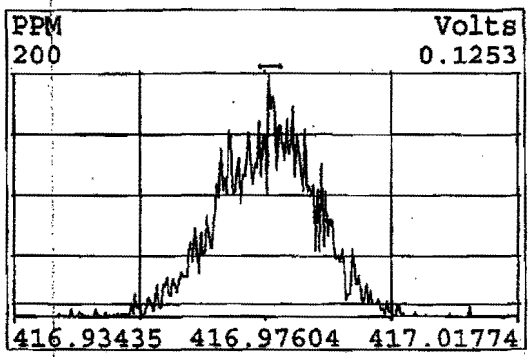


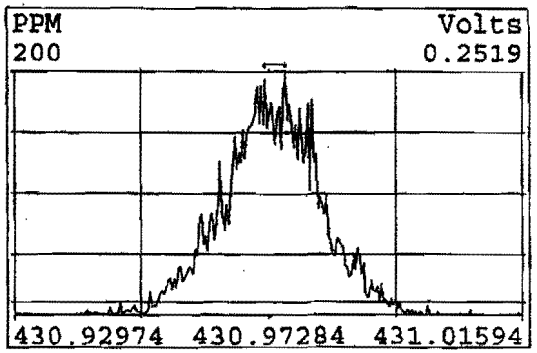


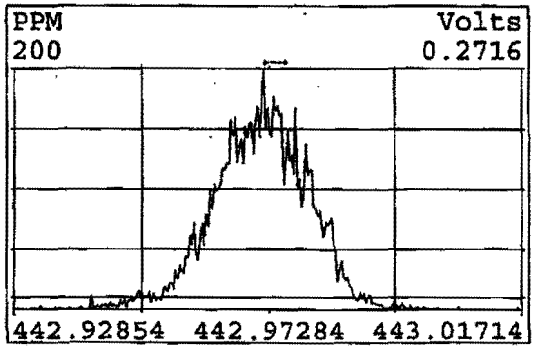


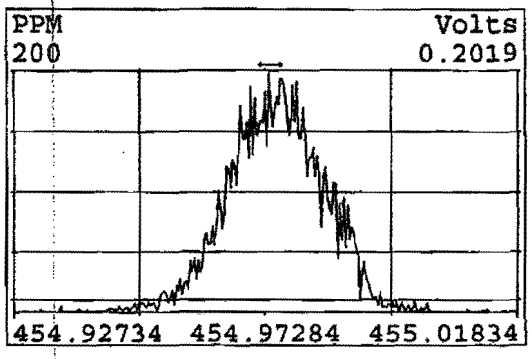
Peak Locate Examination: 4-FEB-2010:09:41 File:04FE104D5
Experiment:DIOXIN Function:4 Reference:PFK

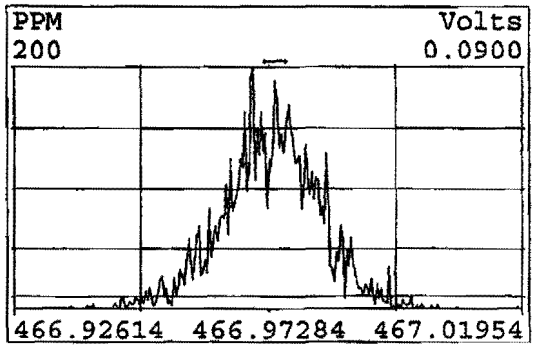


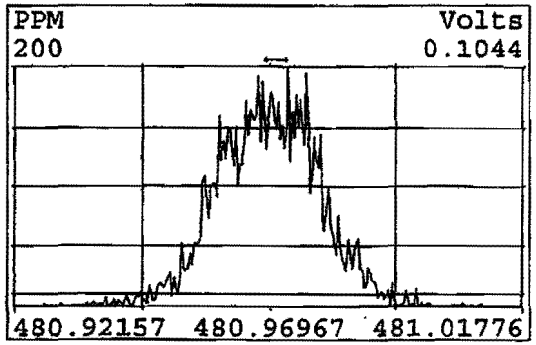




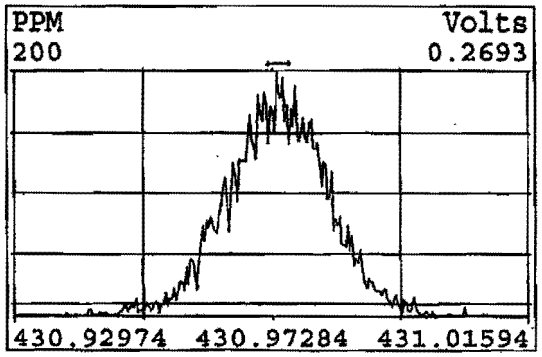


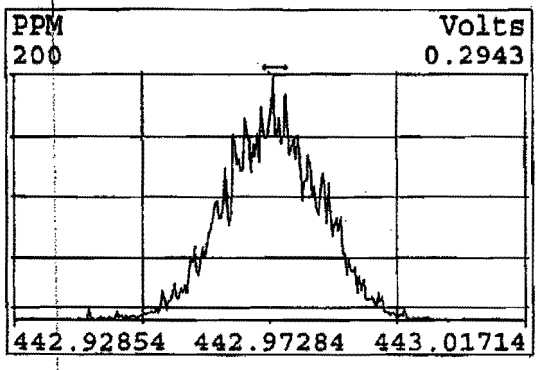


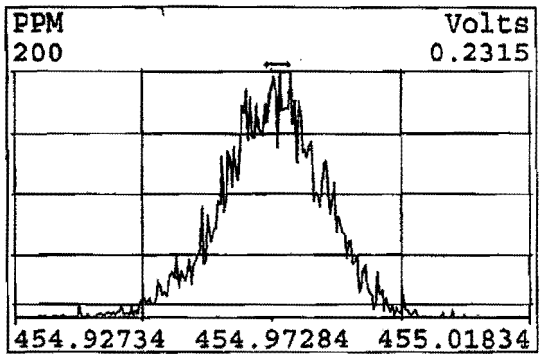


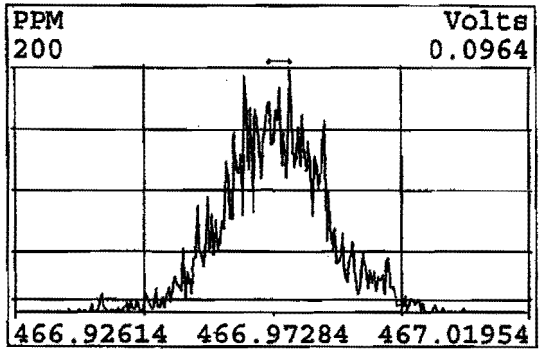


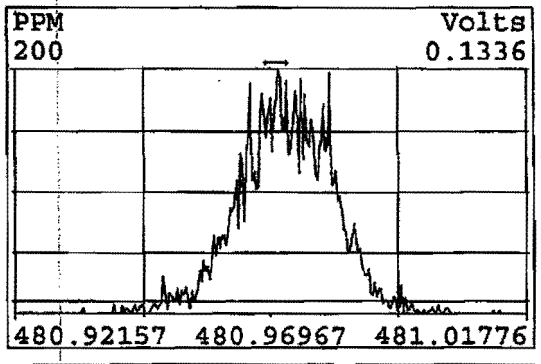
Peak Locate Examination: 4-FEB-2010:09:42 File:04FE104D5
Experiment:DIOXIN Function:5 Reference:PFK

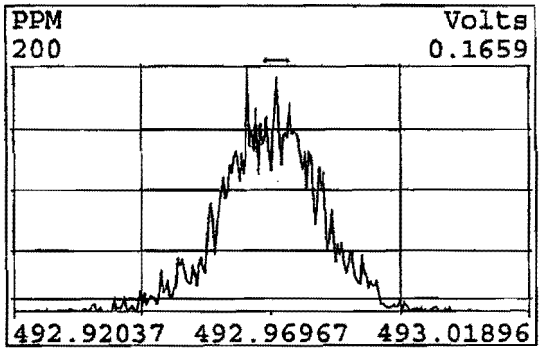


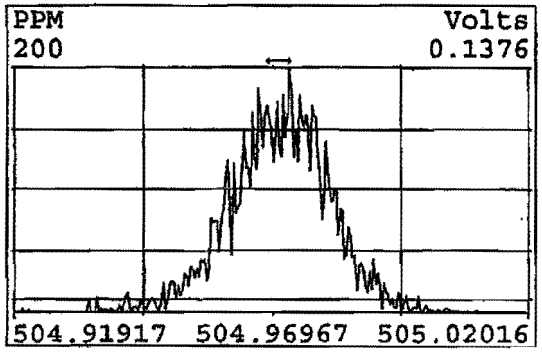


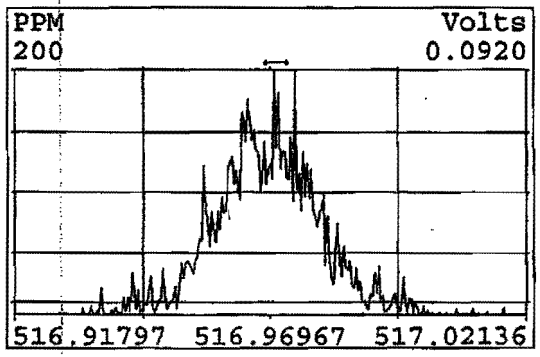




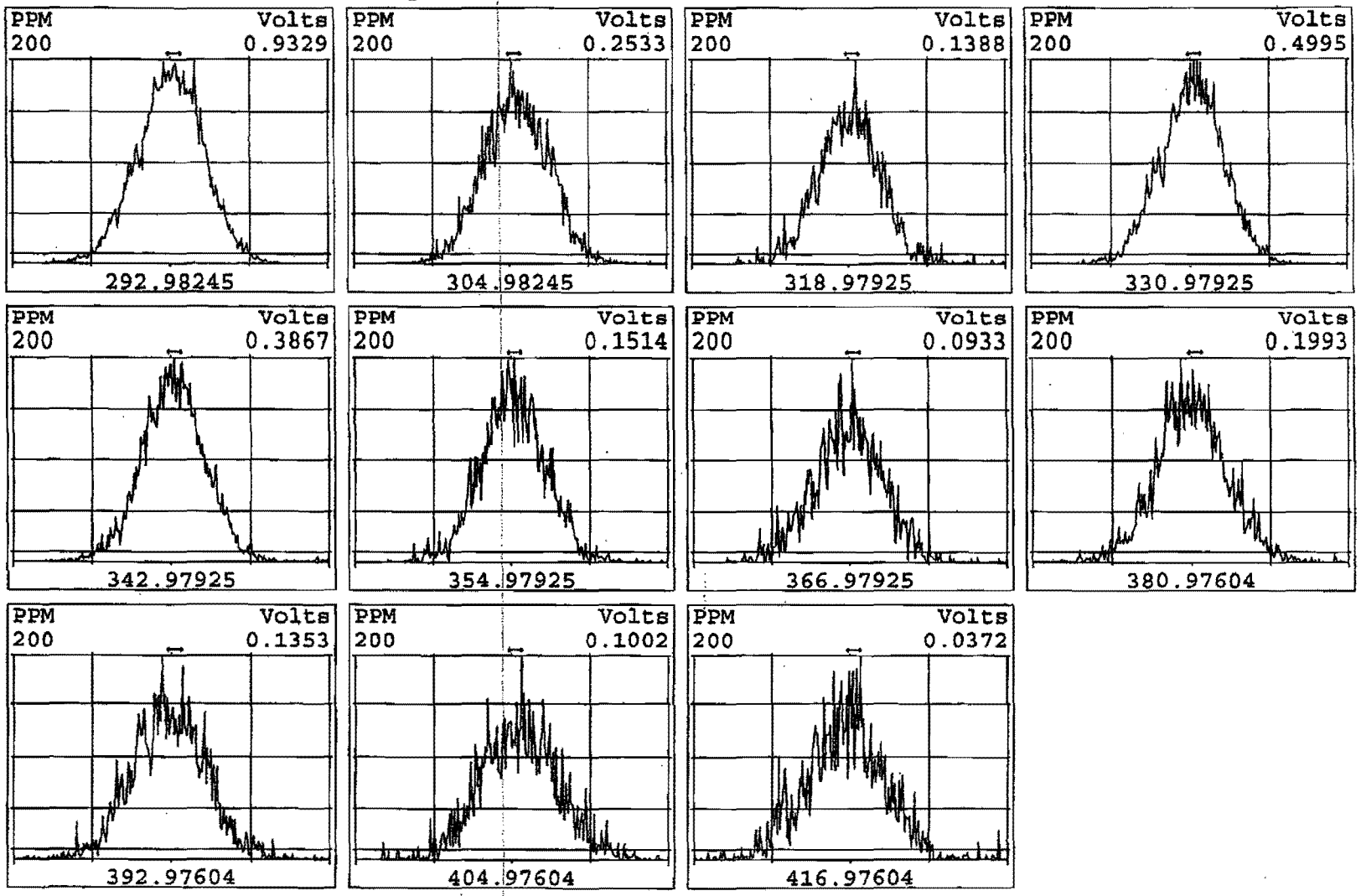




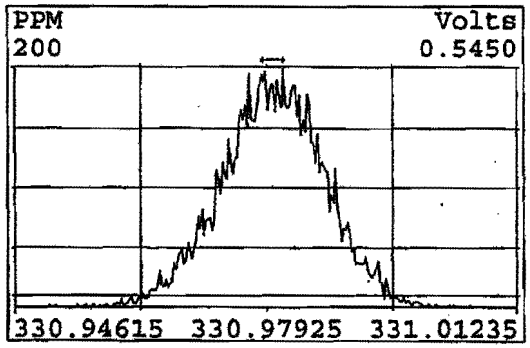


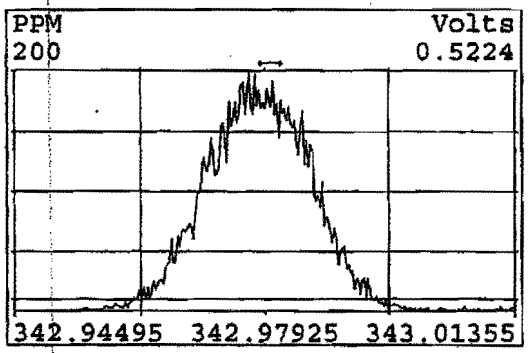


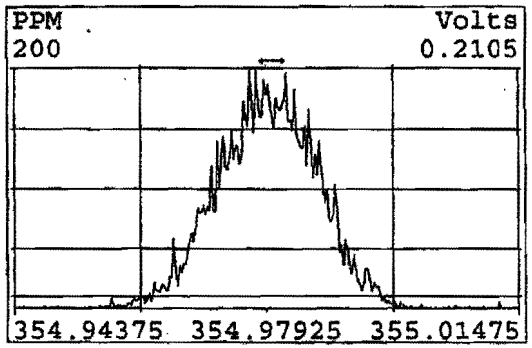
Peak Locate Examination: 4-FEB-2010:14:53 File:ENDRES04FE104D5
Experiment:DIOXIN Function:1 Reference:PFK

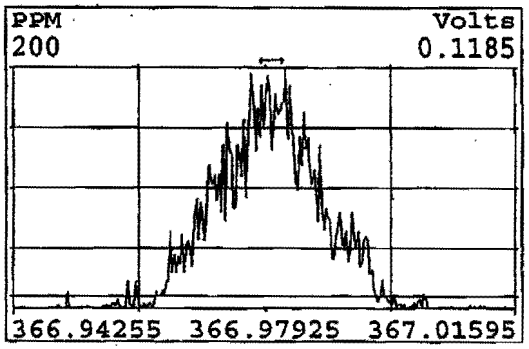


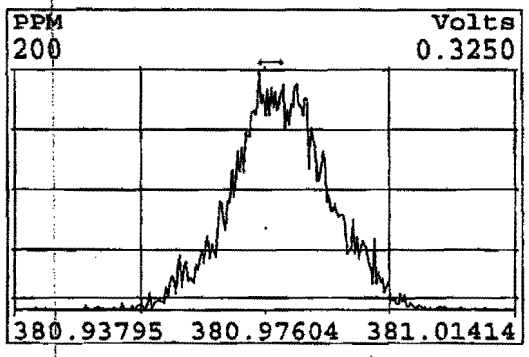
Peak Locate Examination: 4-FEB-2010:14:54 File:ENDRES04FE104D5
Experiment:DIOXIN Function:2 Reference:PFK

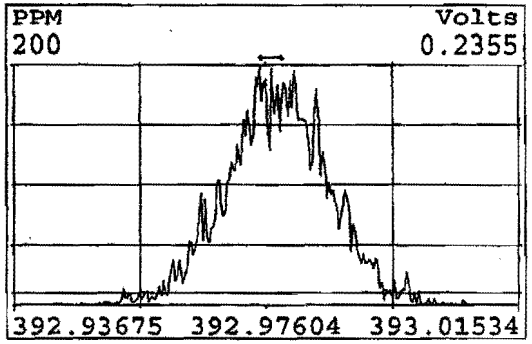


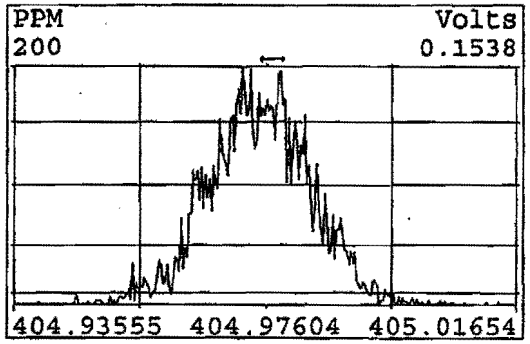


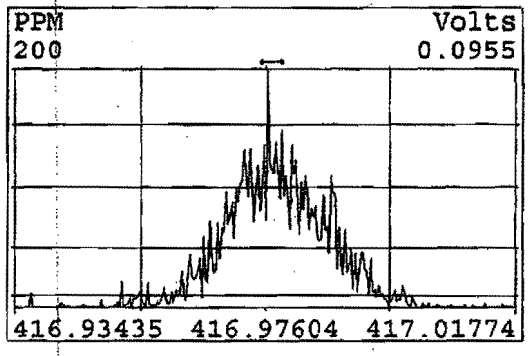




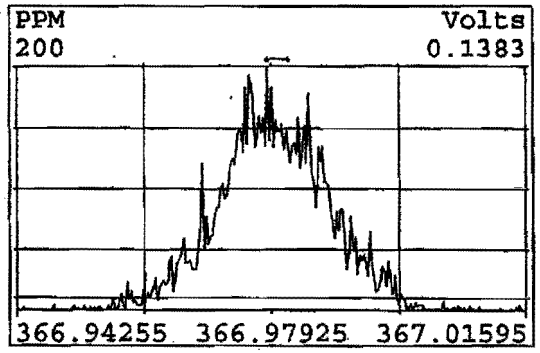


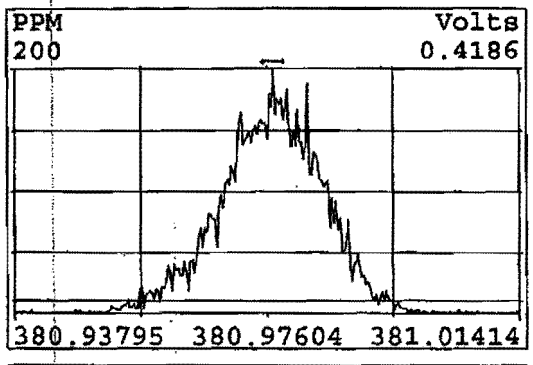


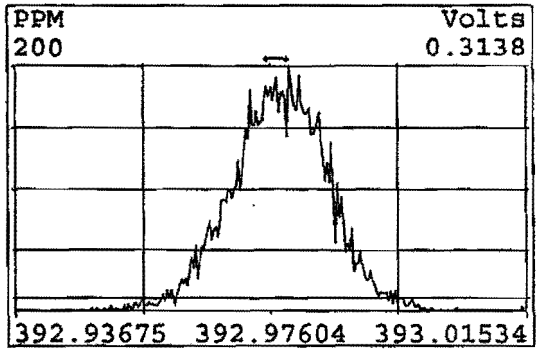


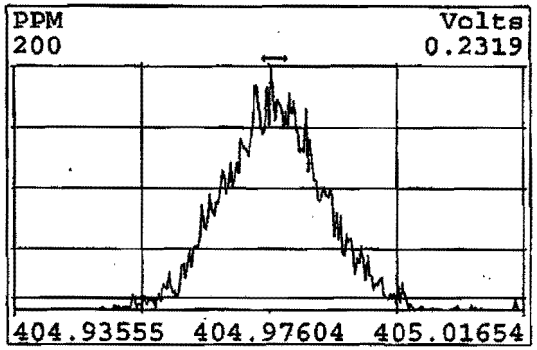


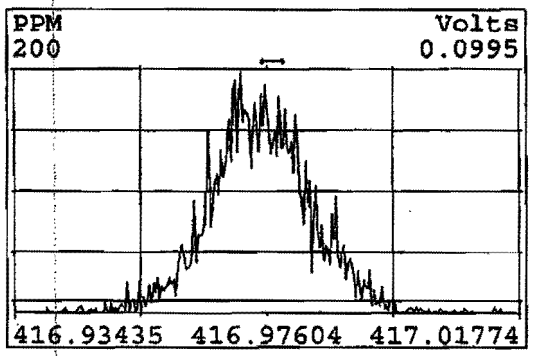
Peak Locate Examination: 4-FEB-2010:14:54 File:ENDRES04FE104D5
Experiment:DIOXIN Function:3 Reference:PFK

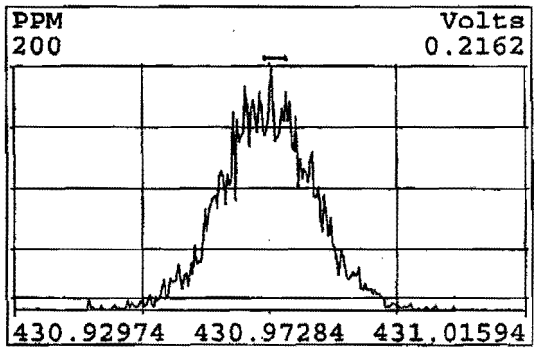


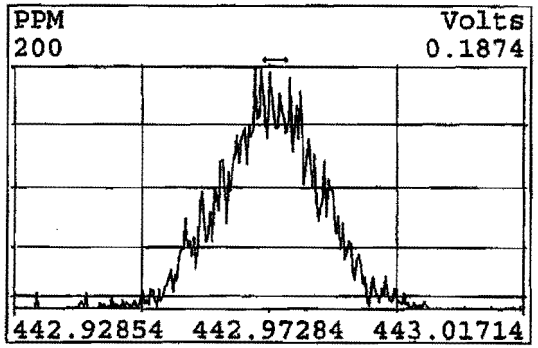


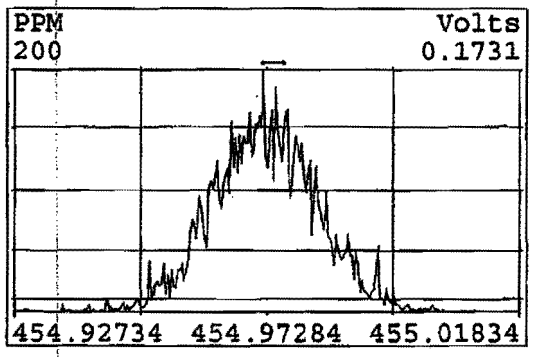




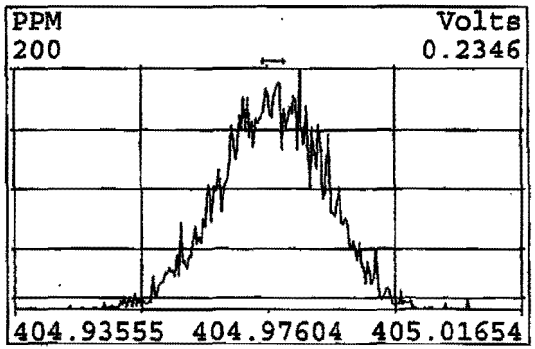


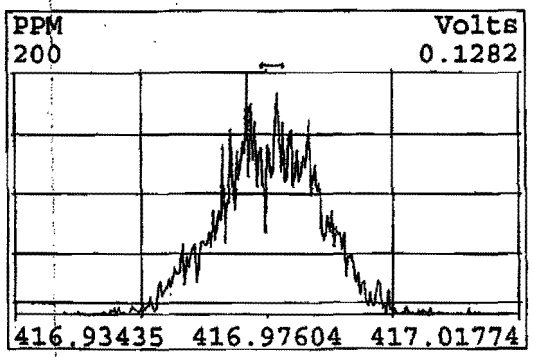


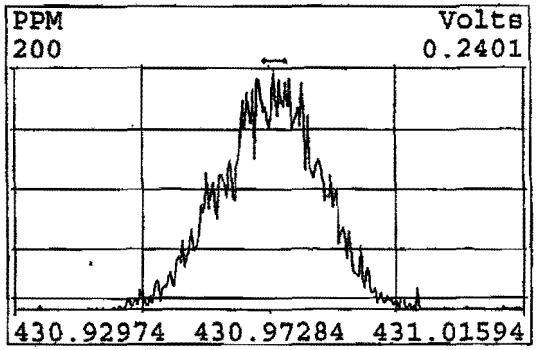


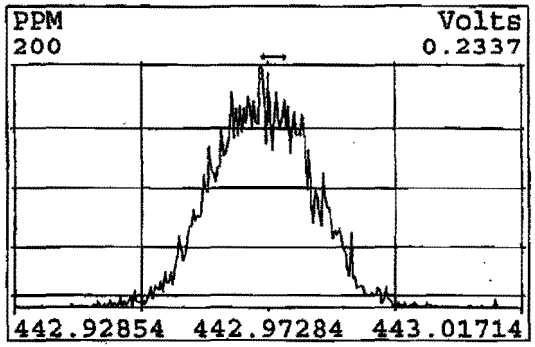


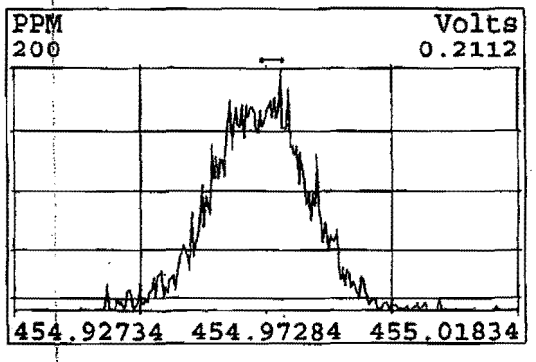
Peak Locate Examination: 4-FEB-2010:14:55 File:ENDRES04FE104D5
Experiment:DIOXIN Function:4 Reference:PFK

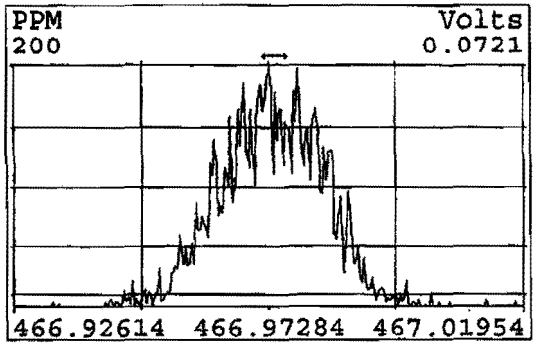


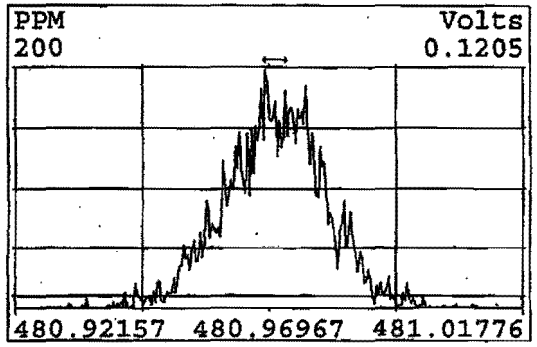




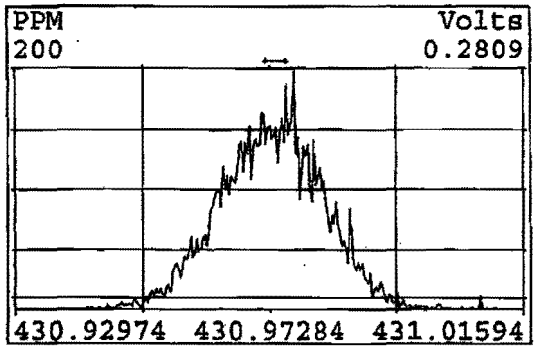


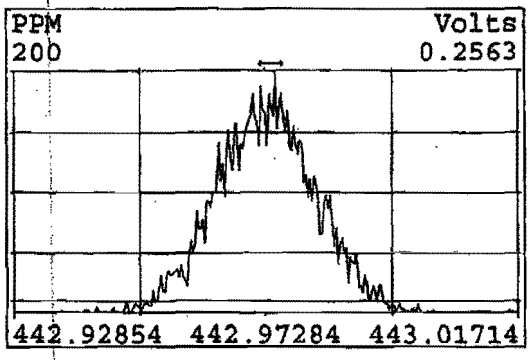


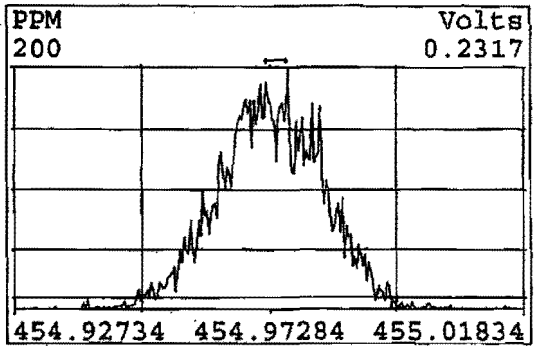


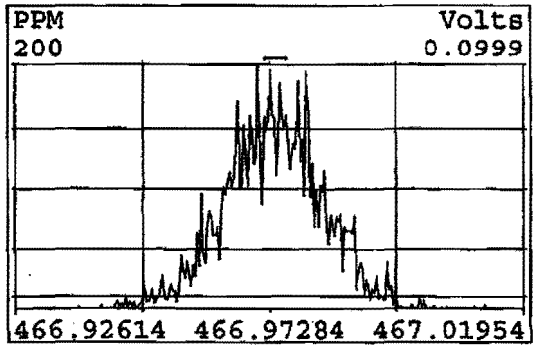


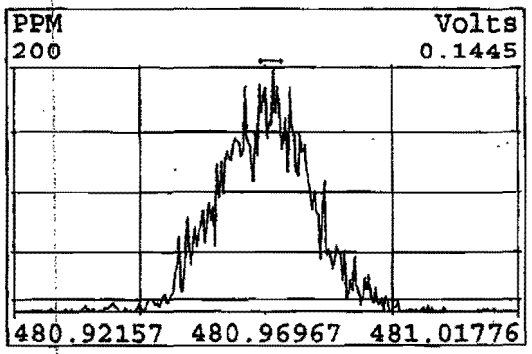
Peak Locate Examination: 4-FEB-2010:14:55 File:ENDRES04FE104D5
Experiment:DIOXIN Function:5 Reference:PFK

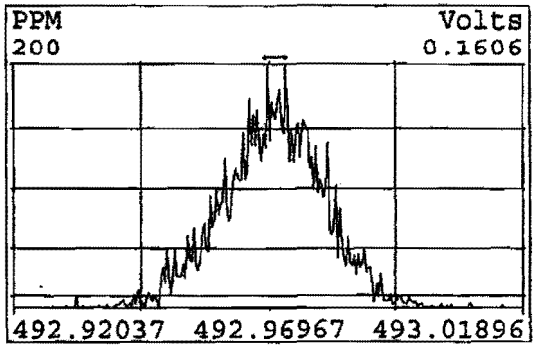


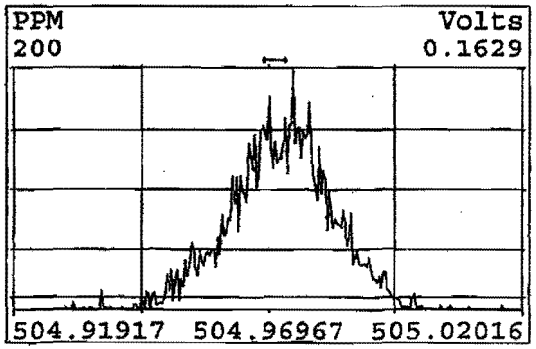


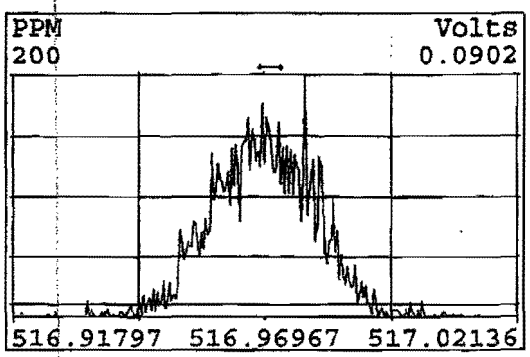












Run: 04FE104D5 Analyte: 8290 Cal: 8290 0204104D5

ST0204 :CS-3 09DXN425 ST0204A :CS-1 09DXN422 ST0204B :CS-2 09DXN423
ST0204C :CS-5 09DXN456 ST0204D :CS-4 09DXN426

Name	Mean	S. D.	%RSD	04FE104D5 S1 RRF1	04FE104D5 S2 RRF2	04FE104D5 S3 RRF3	04FE104D5 S4 RRF4	04FE104D5 S5 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.570	0.092	5.86 %	1.67	1.59	1.55	1.61	1.43
2,3,7,8-TCDF	1.052	0.051	4.86 %	1.09	0.98	1.02	1.09	1.08
Total TCDF	1.052	0.051	4.86 %	1.09	0.98	1.02	1.09	1.08
13C-2,3,7,8-TCDD	1.001	0.057	5.65 %	1.03	0.97	0.95	1.08	0.96
2,3,7,8-TCDD	1.054	0.050	4.70 %	1.08	1.02	0.99	1.11	1.08
Total TCDD	1.054	0.050	4.70 %	1.08	1.02	0.99	1.11	1.08
37Cl-2,3,7,8-TCDD	2.416	0.164	6.77 %	2.42	2.35	2.25	2.69	2.36
13C-1,2,3,7,8-PeCDF	1.337	0.127	9.47 %	1.38	1.26	1.23	1.54	1.27
1,2,3,7,8-PeCDF	1.070	0.057	5.34 %	1.12	0.99	1.04	1.09	1.12
2,3,4,7,8-PeCDF	1.036	0.054	5.21 %	1.08	0.97	0.99	1.06	1.09
Total F2 PeCDF	1.053	0.055	5.24 %	1.10	0.98	1.01	1.07	1.10
Total F1 PeCDF	1.053	0.055	5.24 %	1.10	0.98	1.01	1.07	1.10
13C-1,2,3,7,8-PeCDD	0.812	0.084	10.4 %	0.86	0.77	0.74	0.94	0.76
1,2,3,7,8-PeCDD	1.038	0.067	6.47 %	1.03	0.95	1.00	1.09	1.11
Total PeCDD	1.038	0.067	6.47 %	1.03	0.95	1.00	1.09	1.11
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.015	0.057	5.60 %	1.03	1.03	0.98	1.09	0.94
1,2,3,4,7,8-HxCDF	1.239	0.064	5.14 %	1.28	1.15	1.20	1.28	1.30
1,2,3,6,7,8-HxCDF	1.490	0.054	3.63 %	1.52	1.43	1.48	1.46	1.57
2,3,4,6,7,8-HxCDF	1.339	0.065	4.85 %	1.37	1.25	1.32	1.32	1.43
1,2,3,7,8,9-HxCDF	1.220	0.092	7.58 %	1.24	1.08	1.19	1.25	1.34
Total HxCDF	1.322	0.066	5.00 %	1.35	1.23	1.30	1.33	1.41
13C-1,2,3,6,7,8-HxCDD	0.884	0.041	4.68 %	0.88	0.88	0.89	0.95	0.83
1,2,3,4,7,8-HxCDD	0.903	0.090	10.0 %	1.00	0.81	0.81	0.92	0.98

RSD <20%

1,2,3,6,7,8-HxCDD	1.190	0.048	4.00 %	1.17	1.17	1.14	1.20	1.26
1,2,3,7,8,9-HxCDD	1.158	0.110	9.51 %	1.22	1.01	1.08	1.20	1.28
Total HxCDD	1.083	0.078	7.16 %	1.13	1.00	1.01	1.11	1.18
13C-1,2,3,4,6,7,8-HpCDF	0.945	0.040	4.25 %	0.97	0.95	0.92	1.00	0.89
1,2,3,4,6,7,8-HpCDF	1.299	0.053	4.10 %	1.35	1.24	1.25	1.31	1.35
1,2,3,4,7,8,9-HpCDF	1.102	0.071	6.42 %	1.17	1.01	1.04	1.13	1.15
Total HpCDF	1.200	0.062	5.15 %	1.26	1.12	1.15	1.22	1.25
13C-1,2,3,4,6,7,8-HpCDD	0.793	0.040	5.08 %	0.82	0.79	0.76	0.85	0.75
1,2,3,4,6,7,8-HpCDD	1.056	0.061	5.82 %	1.08	0.96	1.03	1.09	1.12
Total HpCDD	1.056	0.061	5.82 %	1.08	0.96	1.03	1.09	1.12
13C-OCDD	0.582	0.046	7.84 %	0.61	0.57	0.54	0.65	0.54
OCDF	1.558	0.101	6.46 %	1.56	1.43	1.49	1.63	1.68
OCDD	1.193	0.056	4.70 %	1.21	1.11	1.16	1.22	1.26

Run text: ST0204E Sample text: ST0204E :2nd Source 09DXN449
Run #7 Filename: 04FE104D5 S: 7 I: 1 Results: 04FE104D51613SS
Acquired: 4-FEB-10 14:06:33 Processed: 4-FEB-10 14:47:04
Run: 04FE104D5 Analyte: 1613 Cal: 16130204104D5
Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

Spiked @ 200/500/1000 2/4/10 MS

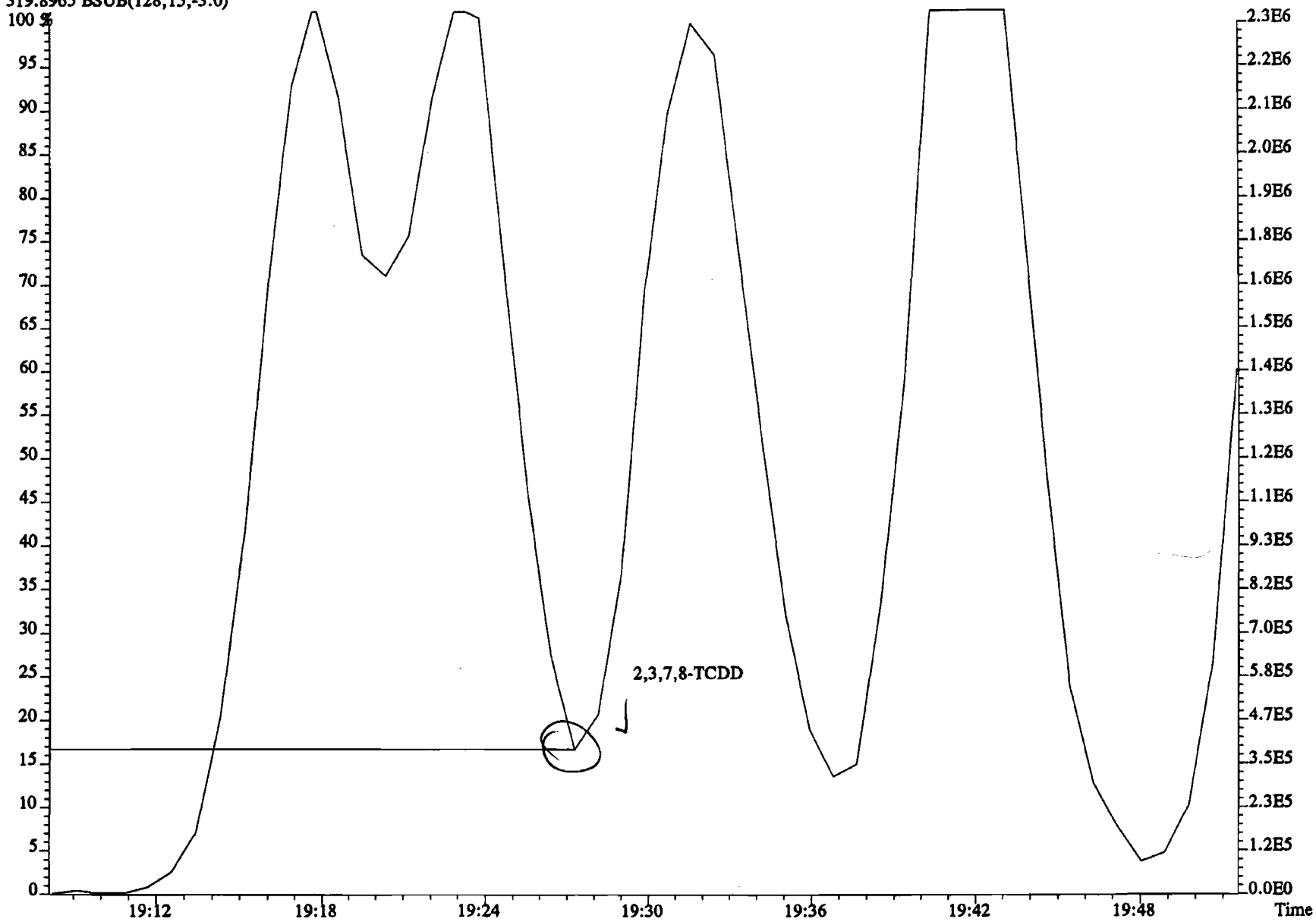
Name	Resp	RA		RT	RRF	Conc		EDL	Rec	M
13C-1,2,3,4-TCDD	175287100	0.81	y	19:22	-	105.30		-	-	n
13C-2,3,7,8-TCDF	266922000	0.78	y	18:50	1.57	1939.28		0.72	97.0	n
2,3,7,8-TCDF	26307300	0.73	y	18:50	1.05	187.31	94%	0.49	-	n
Total TCDF	26695670	1.00	n	18:27	1.05	190.08		0.49	-	n
13C-2,3,7,8-TCDD	181958400	0.80	y	19:36	1.00	2074.30		1.30	103.7	n
2,3,7,8-TCDD	18371850	0.78	y	19:38	1.05	191.59	96%	0.96	-	n
Total TCDD	18453194	0.36	n	15:21	1.05	192.44		0.96	-	n
37Cl-2,3,7,8-TCDD	44269600	1.00	y	19:37	2.42	209.09		0.01	104.5	n
13C-1,2,3,7,8-PeCDF	245877900	1.64	y	24:30	1.34	2098.83		2.44	104.9	n
1,2,3,7,8-PeCDF	63525100	1.52	y	24:30	1.07	483.13	97%	1.41	-	n
13C-2,3,4,7,8-PeCDF	242738100	1.62	y	25:58	1.31	2107.55		2.48	105.4	n
2,3,4,7,8-PeCDF	62244900	1.54	y	26:00	1.05	486.28	97%	1.51	-	n
Total F2 PeCDF	127148228	1.73	y	23:00	1.06	980.03		1.46	-	n
Total F1 PeCDF	*	*	n	NotFnd	1.06	*		0.66	-	n
13C-1,2,3,7,8-PeCDD	137224100	1.69	y	26:47	0.81	1928.05		0.47	96.4	n
1,2,3,7,8-PeCDD	37422200	1.65	y	26:48	1.04	525.48	105%	2.24	-	n
Total PeCDD	37733904	1.65	y	26:48	1.04	529.86		2.24	-	n
13C-1,2,3,7,8,9-HxCDD	164296200	1.27	y	33:04	-	100.71		-	-	n
13C-1,2,3,4,7,8-HxCDF	187336200	0.51	y	31:53	1.01	2247.73		0.92	112.4	n
1,2,3,4,7,8-HxCDF	55922500	1.21	y	31:54	1.24	481.68	96%	0.59	-	n
13C-1,2,3,6,7,8-HxCDF	235114700	0.52	y	32:01	1.33	2149.85		0.70	107.5	n
1,2,3,6,7,8-HxCDF	64341100	1.22	y	32:01	1.13	482.24	96%	0.56	-	n
13C-2,3,4,6,7,8-HxCDF	214823600	0.52	y	32:35	1.18	2212.73		0.79	110.6	n
2,3,4,6,7,8-HxCDF	58389600	1.19	y	32:36	1.15	472.99	95%	0.53	-	n
13C-1,2,3,7,8,9-HxCDF	192523600	0.53	y	33:14	1.10	2140.01		0.85	107.0	n
1,2,3,7,8,9-HxCDF	53423000	1.21	y	33:15	1.13	491.82	98%	0.62	-	n
Total HxCDF	232534013	1.21	y	31:54	1.16	1932.53		0.57	-	n
13C-1,2,3,4,7,8-HxCDD	122968200	1.28	y	32:43	0.74	2010.84		0.07	100.5	n
1,2,3,4,7,8-HxCDD	37078000	1.26	y	32:43	1.07	562.04	112%	1.35	-	n
13C-1,2,3,6,7,8-HxCDD	151023300	1.30	y	32:47	0.88	2079.99		0.06	104.0	n
1,2,3,6,7,8-HxCDD	46262200	1.31	y	32:48	1.19	514.82	103%	1.28	-	n
1,2,3,7,8,9-HxCDD	44506700	1.29	y	33:05	1.26	516.67	103%	1.19	-	n
Total HxCDD	127846900	1.26	y	32:43	1.18	1593.53		1.27	-	n
13C-1,2,3,4,6,7,8-HpCDF	165616100	0.44	y	34:34	0.94	2133.88		3.91	106.7	n
1,2,3,4,6,7,8-HpCDF	51186200	0.94	y	34:35	1.30	475.89	95%	2.19	-	n
13C-1,2,3,4,7,8,9-HpCDF	140442700	0.43	y	35:41	0.81	2102.73		4.54	105.1	n
1,2,3,4,7,8,9-HpCDF	43079900	0.96	y	35:42	1.28	479.11	96%	2.92	-	n
Total HpCDF	94266100	0.94	y	34:35	1.29	955.00		2.52	-	n

0/ODS ±20% unlabeled
±30% labeled

13C-1,2,3,4,6,7,8-HpCDD	139296600	1.07	y	35:23	0.79	2138.52		2.90	106.9	n
1,2,3,4,6,7,8-HpCDD	35570300	1.06	y	35:23	1.06	483.63 ✓	97%	1.89	-	n
Total HpCDD	36207386	4.47	n	34:35	1.06	492.29		1.89	-	n
13C-OCDD	194917600	0.95	y	37:52	0.58	4077.38		3.13	101.9	n
OCDF	75151300	0.89	y	37:58	1.56	990.09 ✓	99%	1.04	-	n
OCDD	58400500	0.88	y	37:52	1.19	1004.50 ✓	100%	1.52	-	n

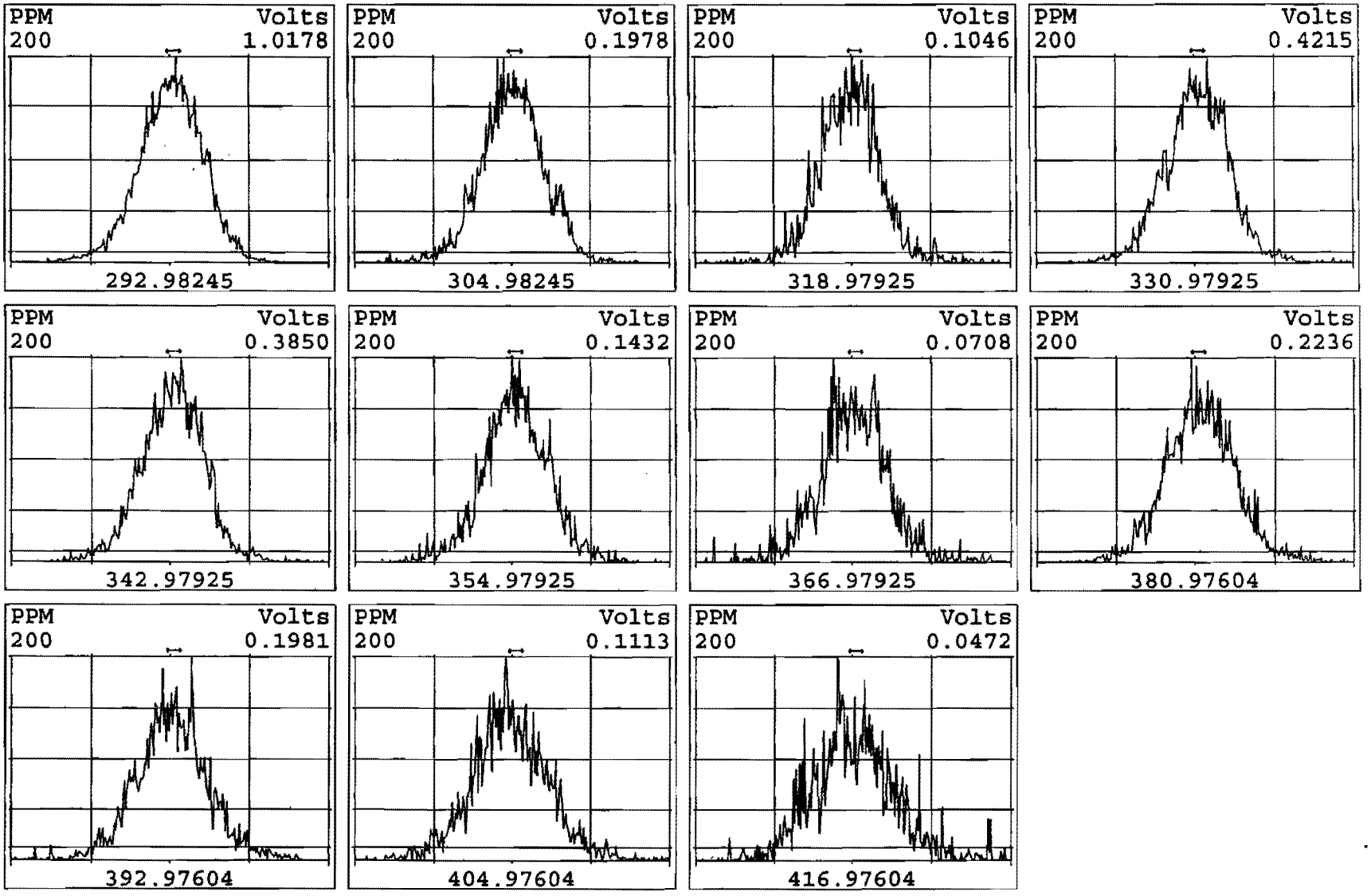
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
17FE104D5	1	CP0217	DB-5 CPSM 3732-05				1.00000	
17FE104D5	2	ST0217	CS3 09DXN425				1.00000	
17FE104D5	3	SB0217	Solvent Blank C-14				1.00000	
17FE104D5	4	LVLQM-1-AAB	G0B120000-244 (517-2MB)	20	8290A/WATER	14	1.00000	L
17FE104D5	5	LVLRV-1-ADB	G0B120000-251 (541-1MBX)	20	8290/LEACHATE		0.98770	L
17FE104D5	6	LVLQM-1-ACC	G0B120000-244 (517-2LCS)	20	8290A/WATER		1.00000	L
17FE104D5	7	LT76V-1-AA	G0B040517-2	20	8290A/WATER		1.05430	L
17FE104D5	8	LT76X-1-AA	G0B040517-4	20	8290A/WATER		1.05160	L
17FE104D5	9	LT76X-1-ACS	G0B040517-4S	20	8290A/WATER		1.05200	L
17FE104D5	10	LT76X-1-ADD	G0B040517-4D	20	8290A/WATER		1.05440	L
17FE104D5	11	LT769-1-AA	G0B040517-10	20	8290A/WATER		1.05550	L
17FE104D5	12	LT77C-1-AA	G0B040517-12	20	8290A/WATER		1.02200	L
17FE104D5	13	SB0217A	Solvent Blank C-14				1.00000	
17FE104D5	14	ST0217A	CS3 09DXN425				1.00000	
17FE104D5	15						1.00000	
17FE104D5	16						1.00000	
17FE104D5	17		KSS 02-17-10				1.00000	
17FE104D5	18						1.00000	
17FE104D5	19						1.00000	

File:17FE104D5 #1-578 Acq:17-FEB-2010 09:33:47 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0217 :DB-5 CPSM 3732-05 Exp:DIOXIN
319.8965 BSUB(128,15,-3.0)

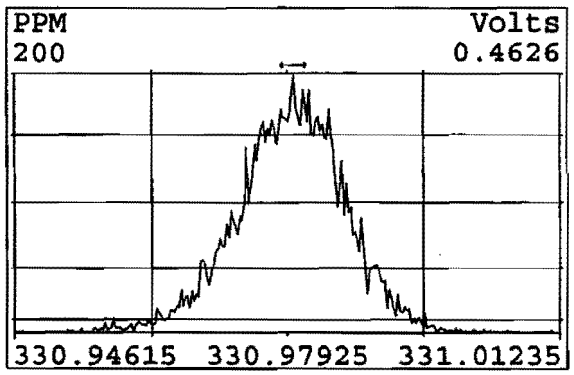


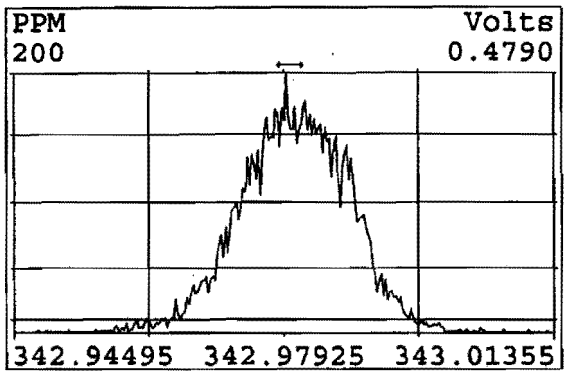
TestAmerica West Sacramento (916) 373 - 5600

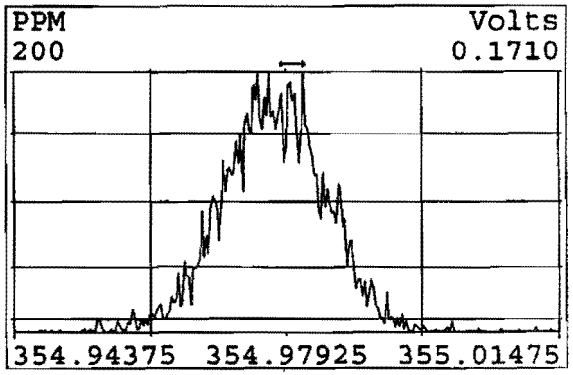
Peak Locate Examination:17-FEB-2010:09:30 File:17FE104D5
Experiment:DIOXIN Function:1 Reference:PFK

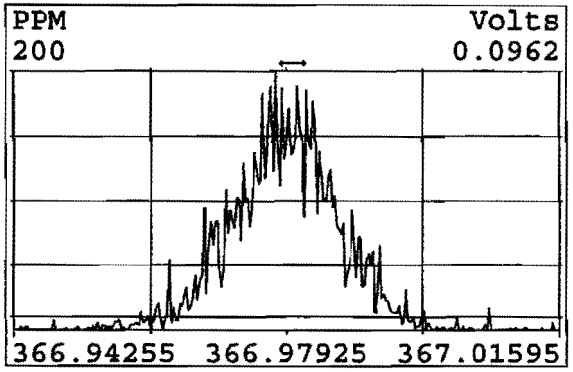


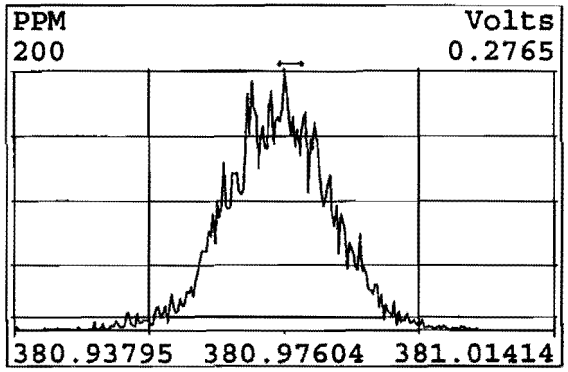
Peak Locate Examination:17-FEB-2010:09:31 File:17FE104D5
Experiment:DIOXIN Function:2 Reference:PFK

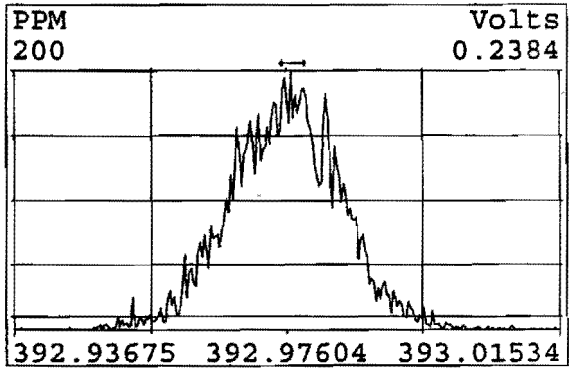


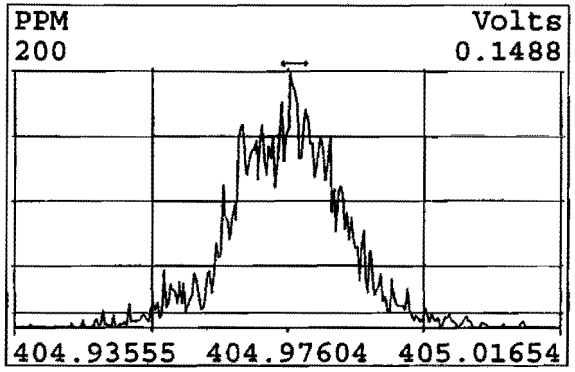


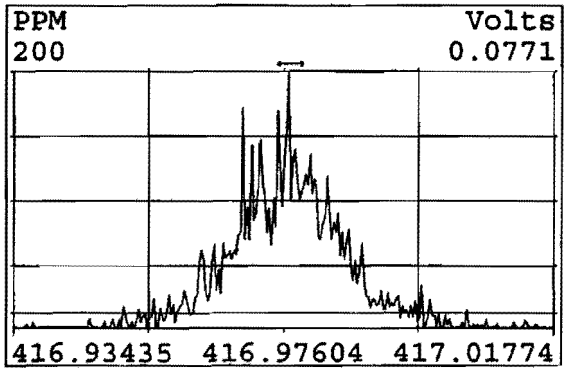




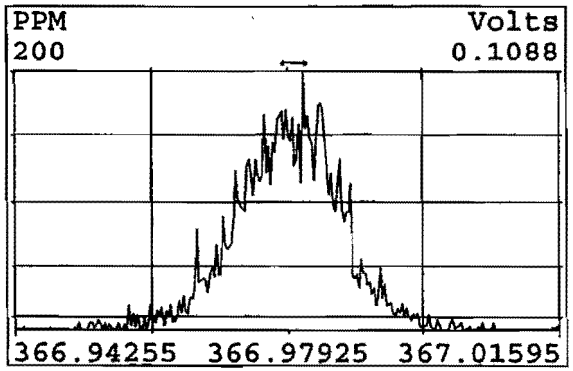


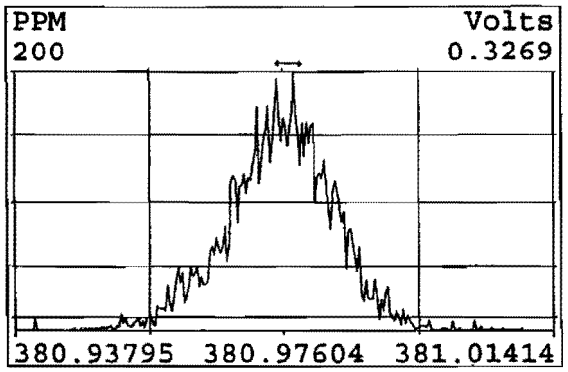


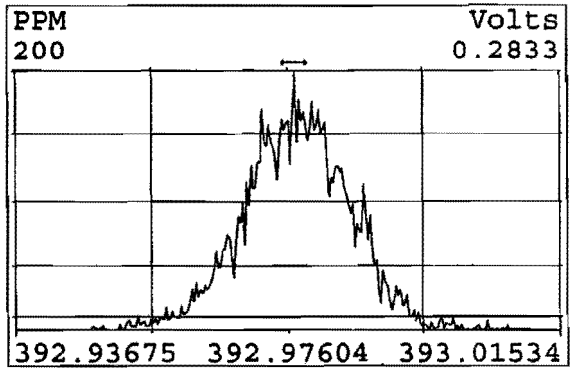


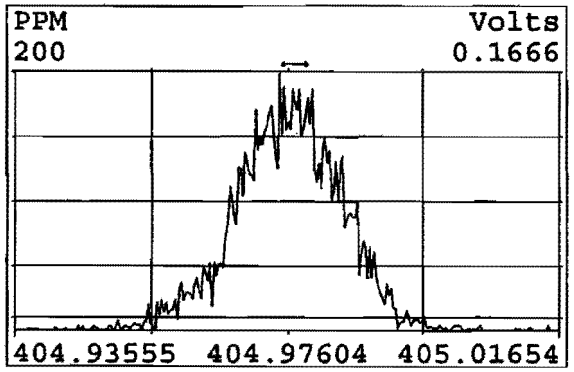


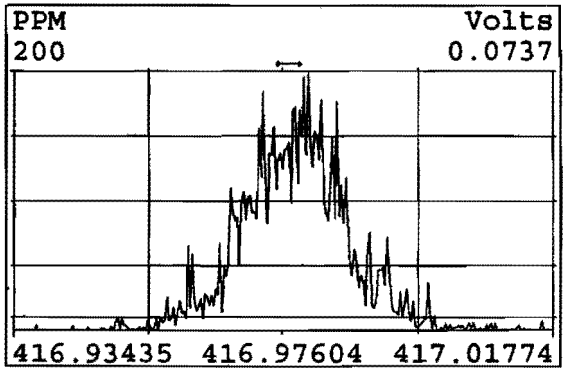
Peak Locate Examination:17-FEB-2010:09:32 File:17FE104D5
Experiment:DIOXIN Function:3 Reference:PFK

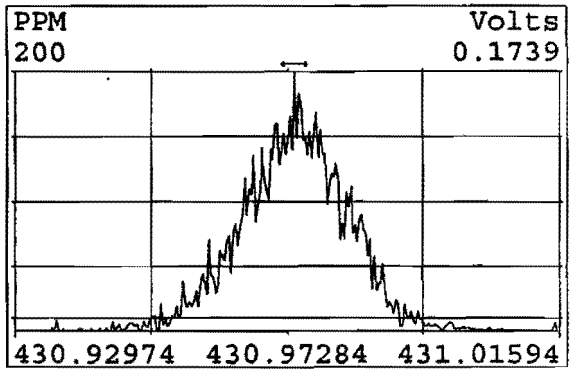


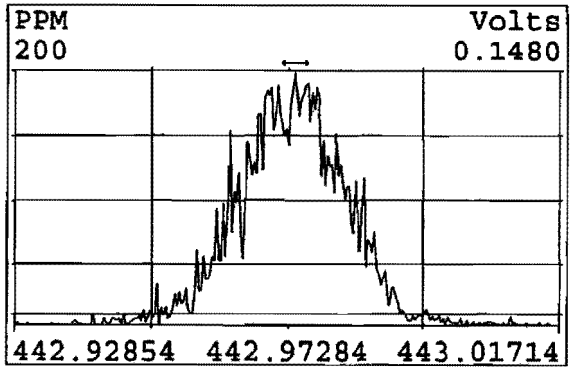


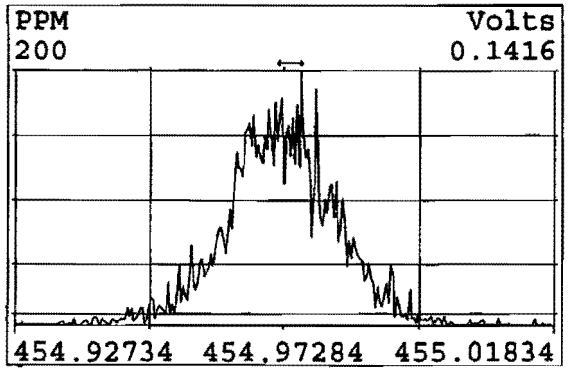




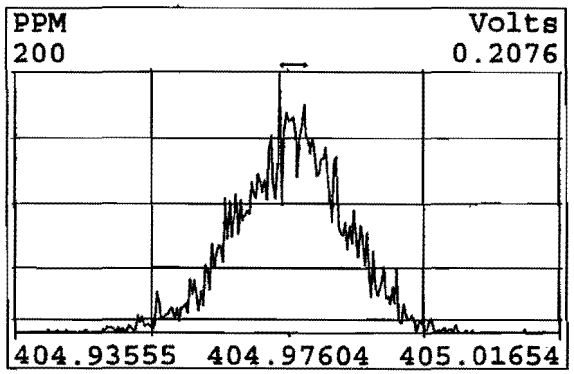


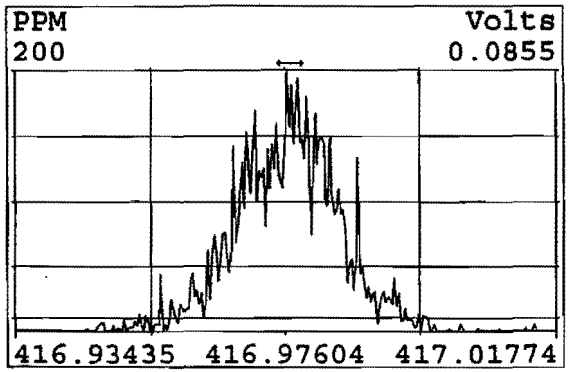


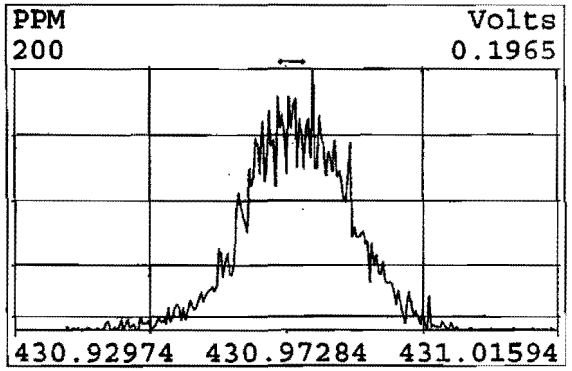


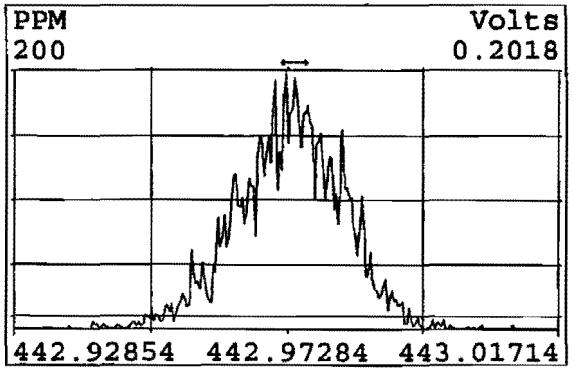


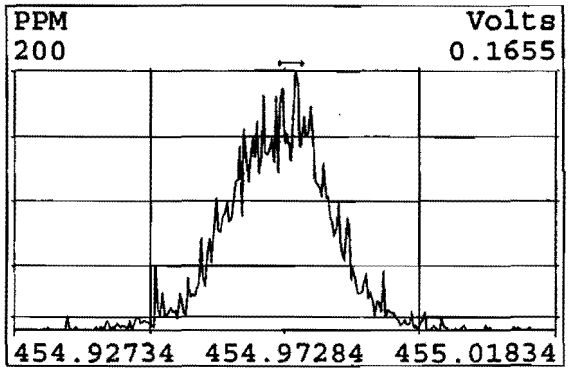
Peak Locate Examination:17-FEB-2010:09:33 File:17FE104D5
Experiment:DIOXIN Function:4 Reference:PFK

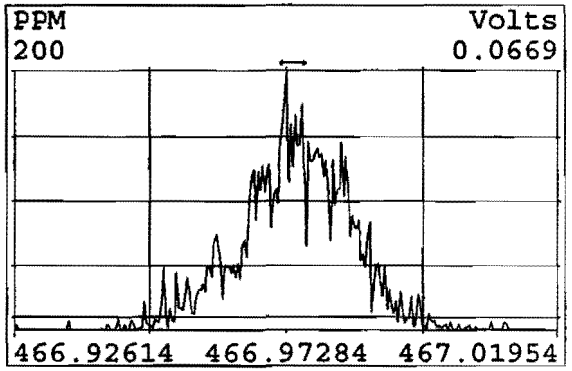


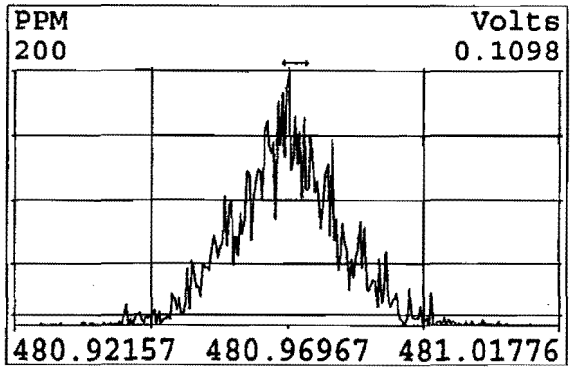




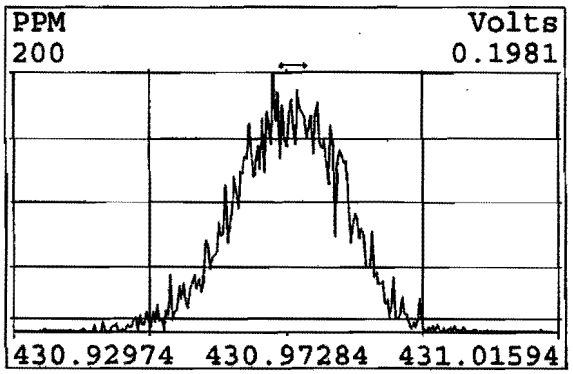


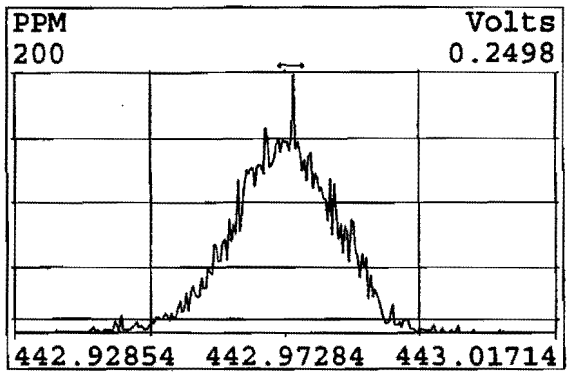


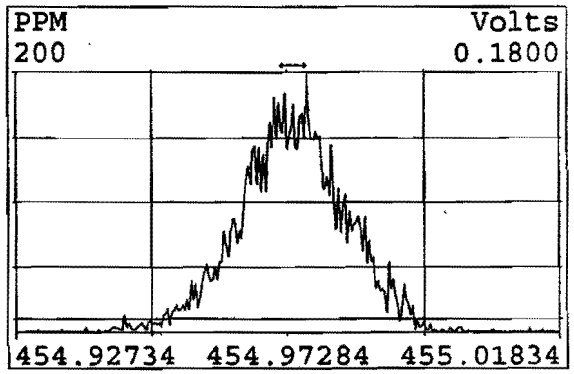


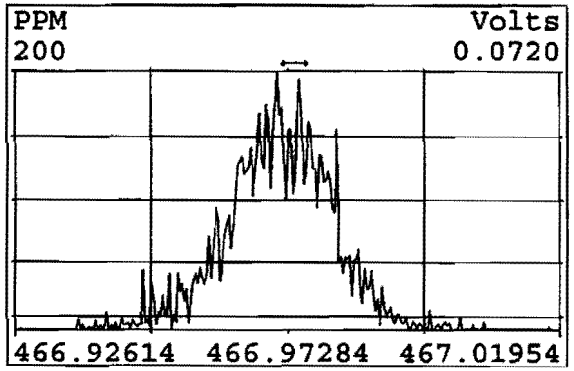


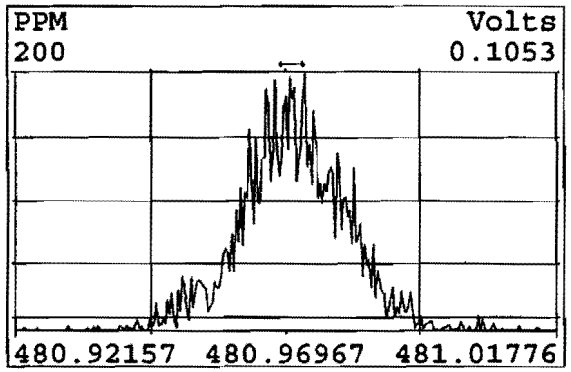
Peak Locate Examination:17-FEB-2010:09:33 File:17FE104D5
Experiment:DIOXIN Function:5 Reference:PFK

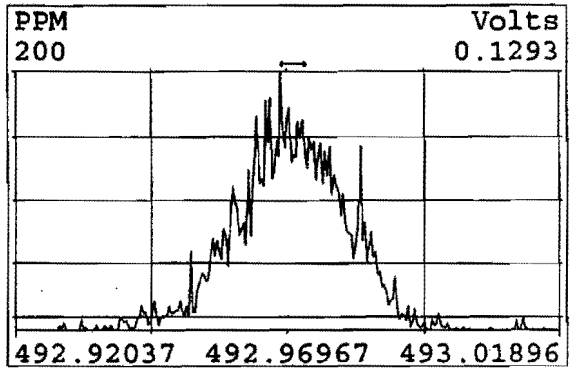


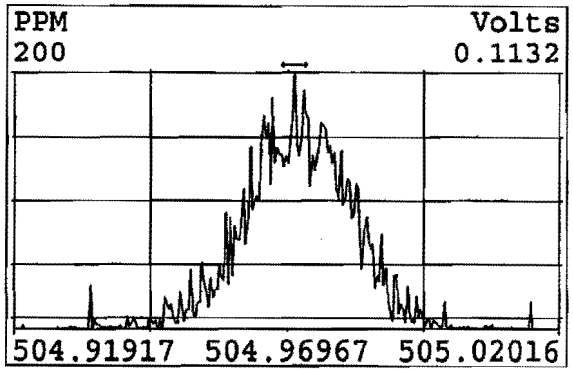


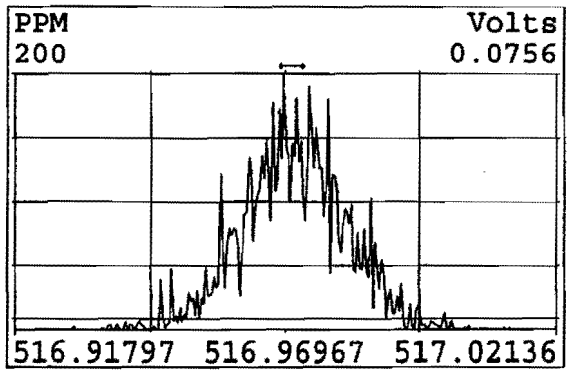




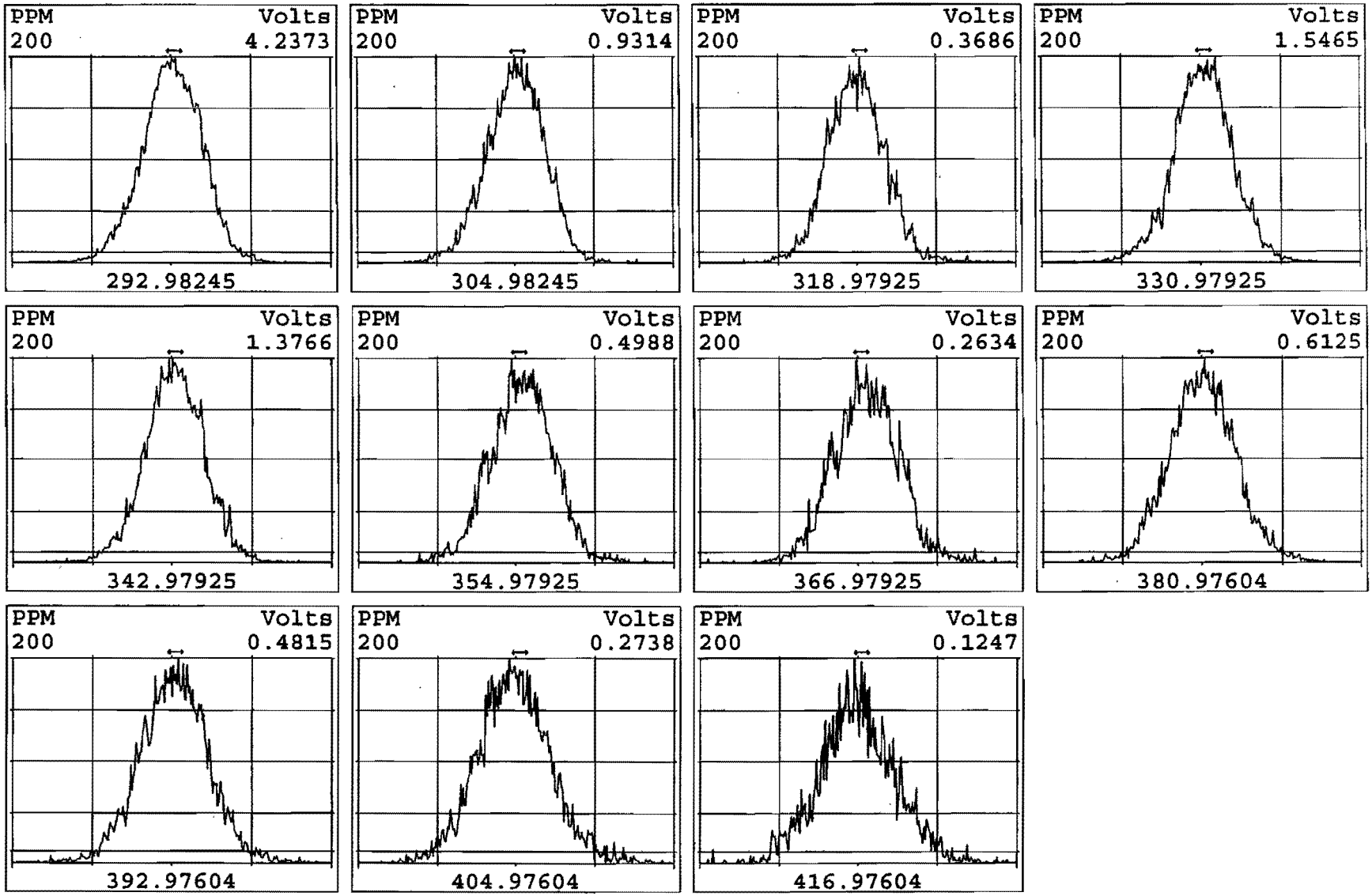




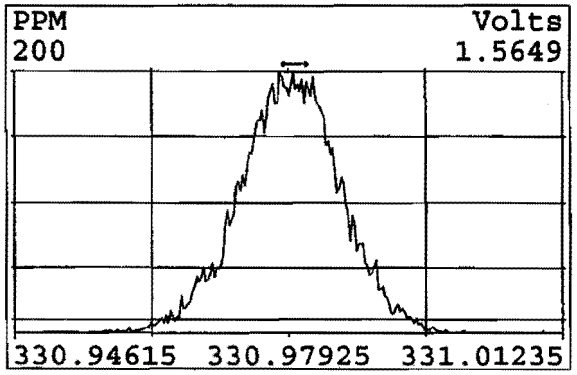


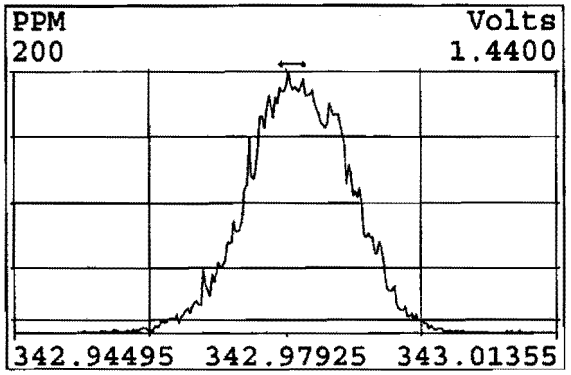


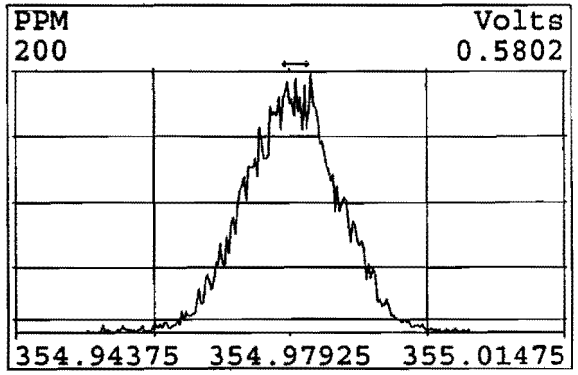
Peak Locate Examination:17-FEB-2010:20:01 File:RESCHK17FE104D5
Experiment:DIOXIN Function:1 Reference:PFK

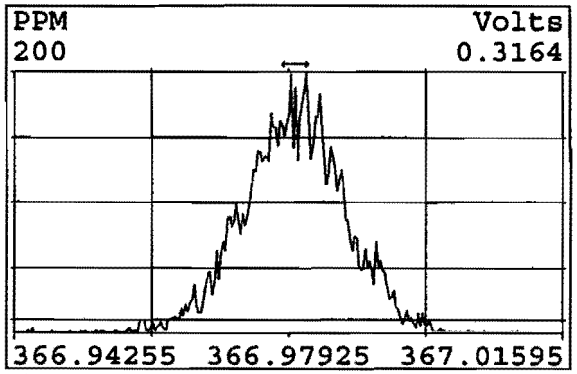


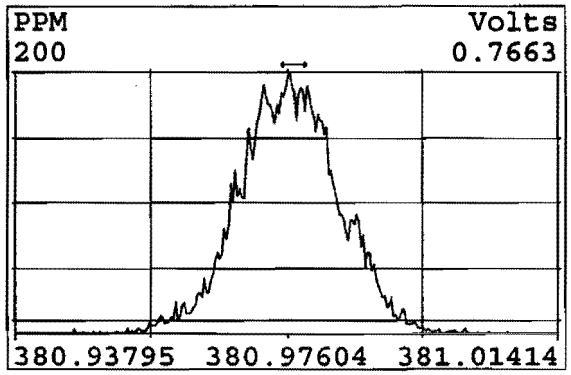
Peak Locate Examination:17-FEB-2010:20:03 File:RESCHK17FE104D5
Experiment:DIOXIN Function:2 Reference:PFK

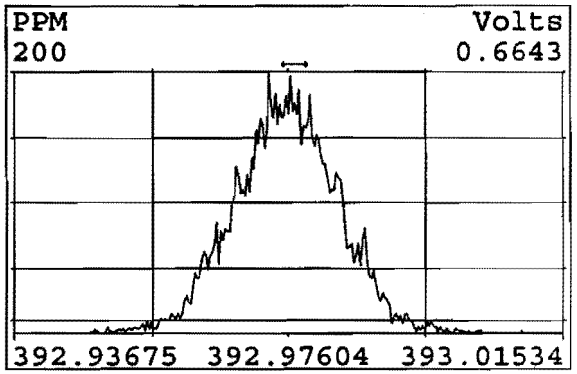


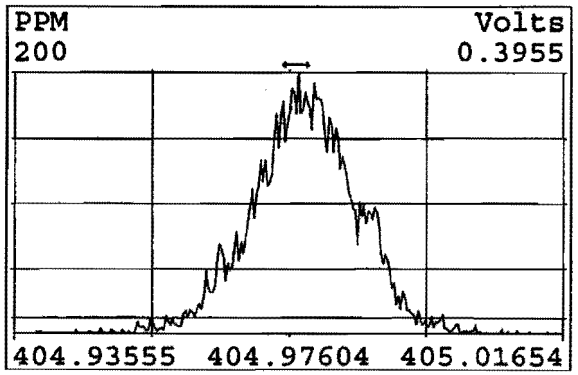


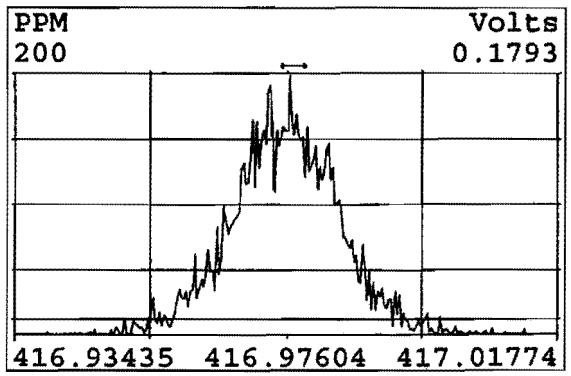




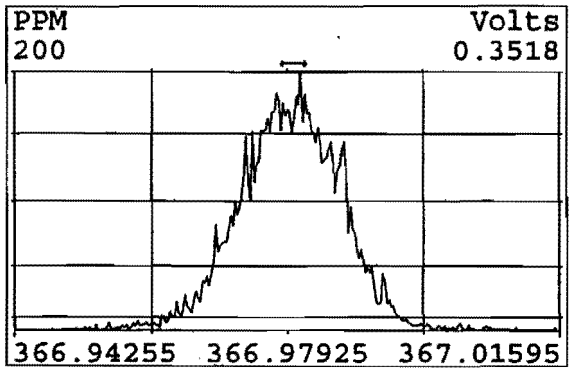


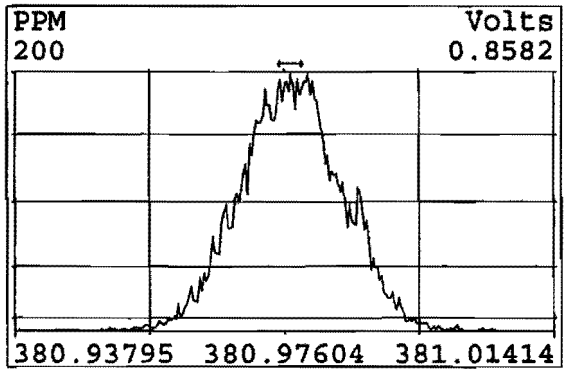


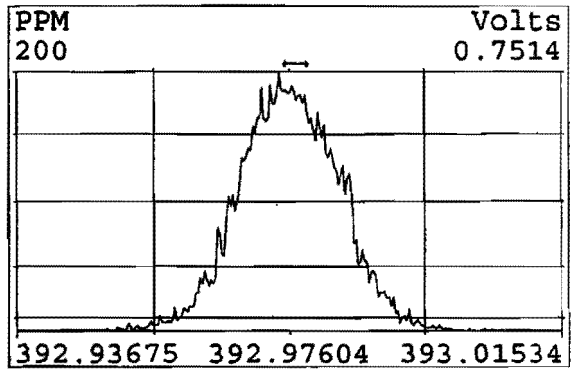


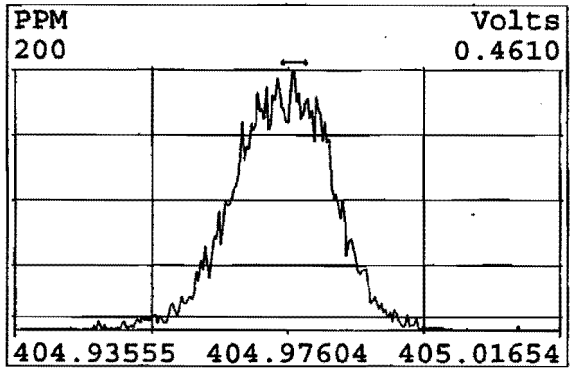


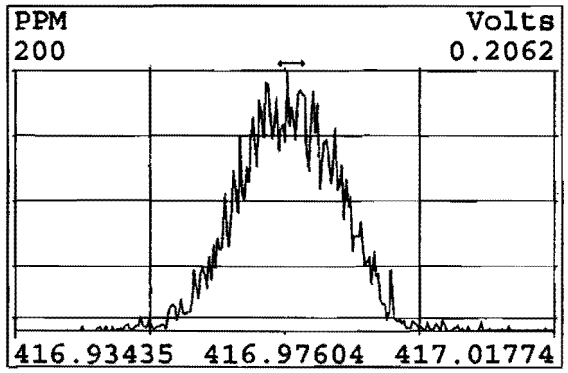
Peak Locate Examination:17-FEB-2010:20:04 File:RESCHK17FE104D5
Experiment:DIOXIN Function:3 Reference:PFK

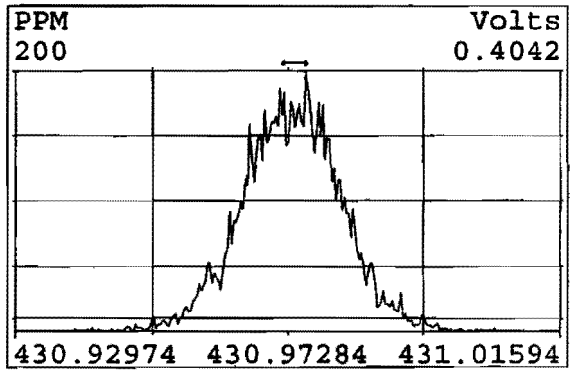


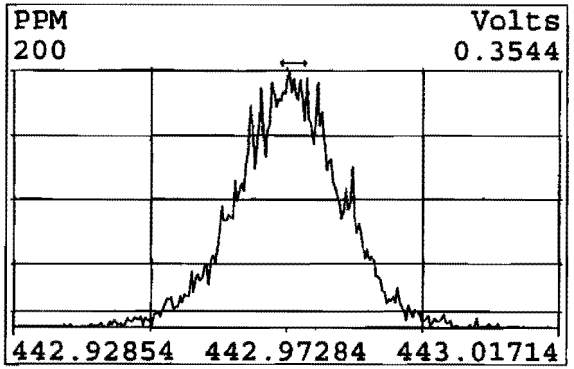


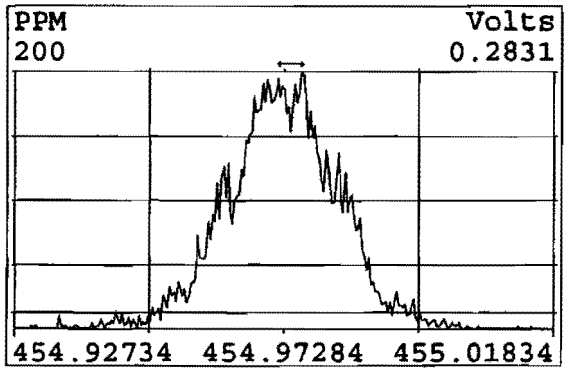




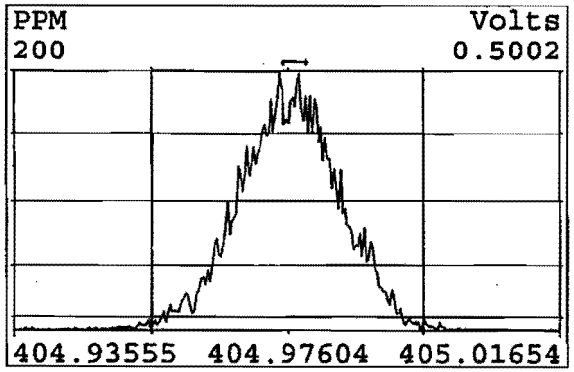


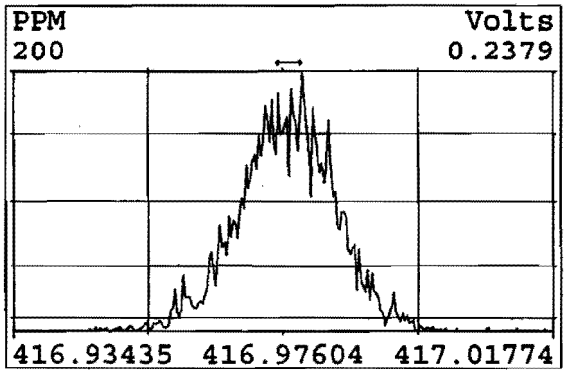


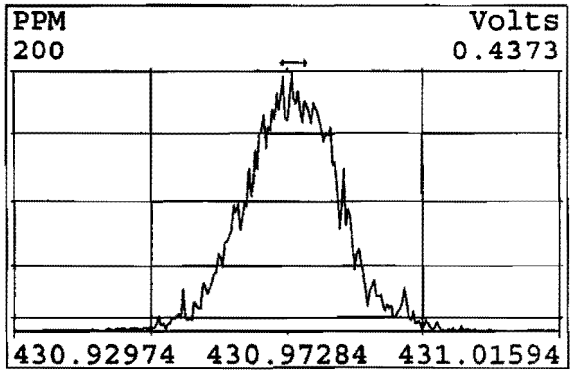


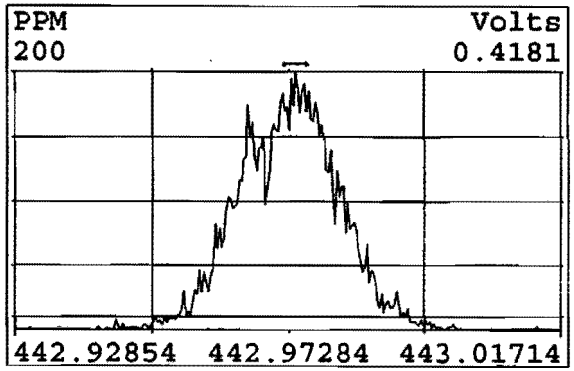


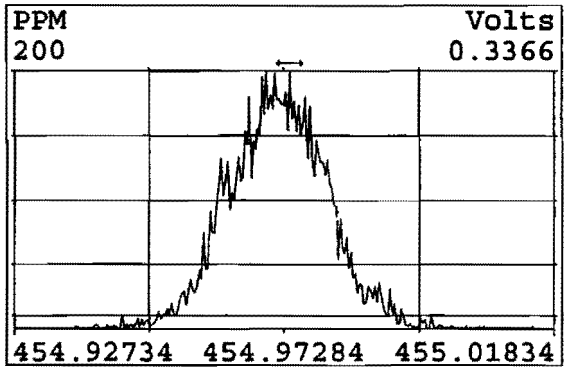
Peak Locate Examination:17-FEB-2010:20:05 File:RESCHK17FE104D5
Experiment:DIOXIN Function:4 Reference:PFK

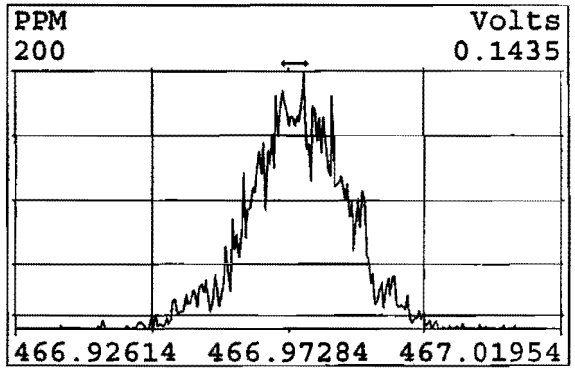


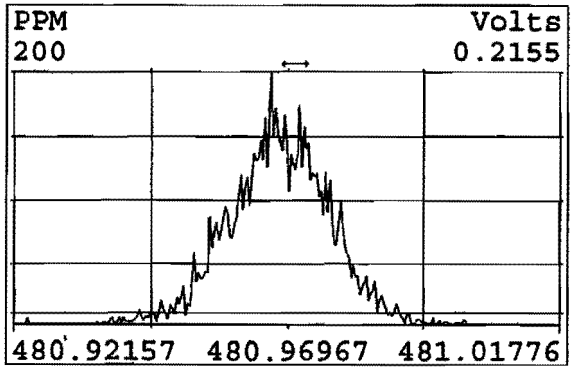




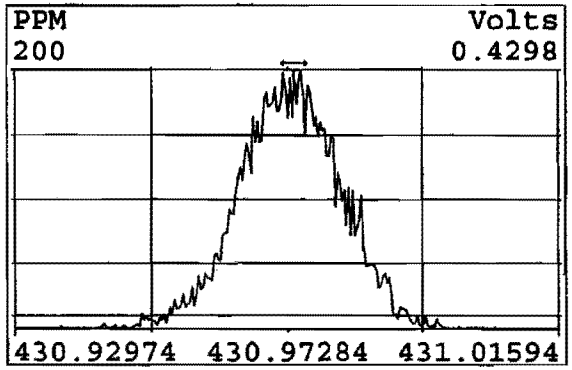


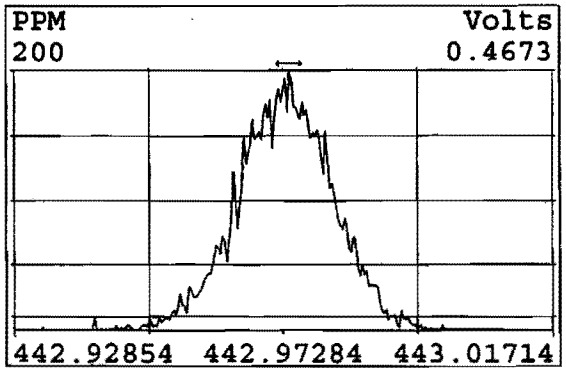


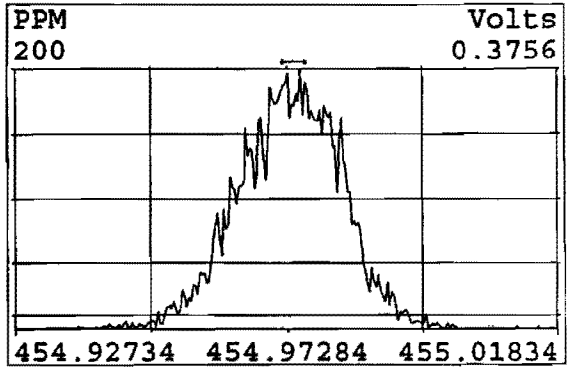


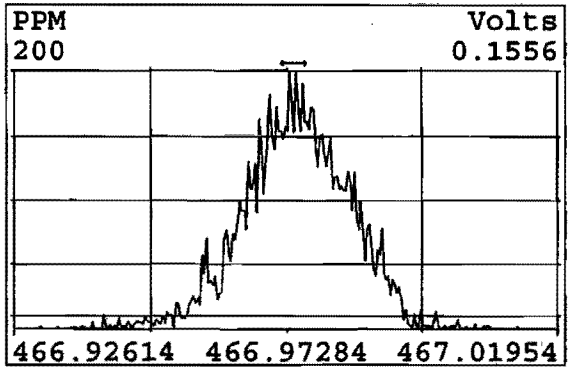


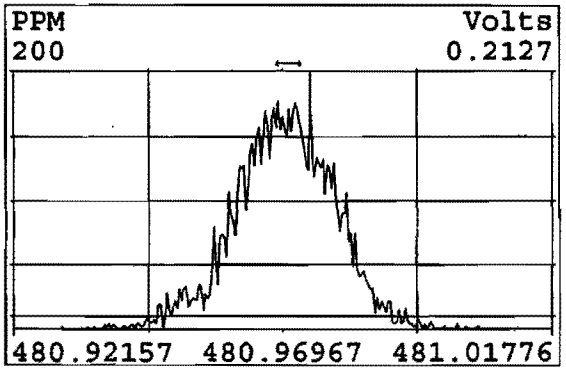
Peak Locate Examination:17-FEB-2010:20:06 File:RESCHK17FE104D5
Experiment:DIOXIN Function:5 Reference:PFK

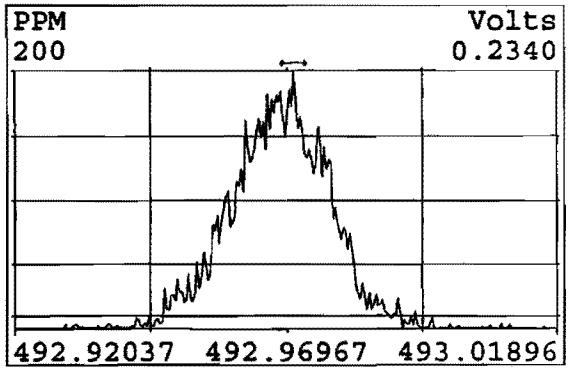


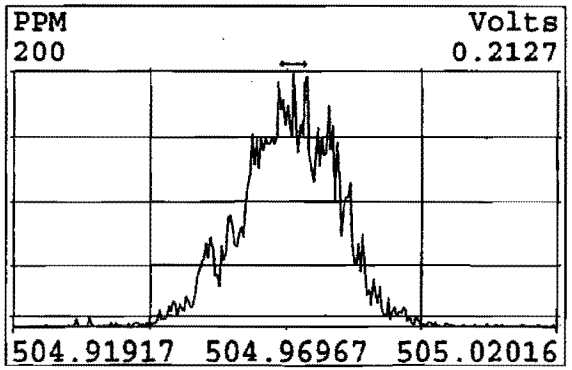


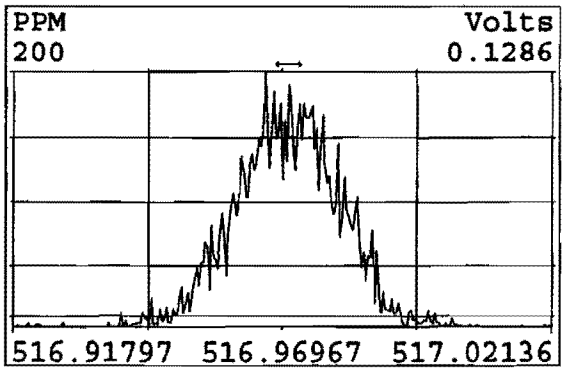












Run text: ST0217 File text: ST0217 :CS3 09DXN425
Run #6 Filename 17FE104D5 S: 2 I: 1
Acquired: 17-FEB-10 10:17:49 Processed: 17-FEB-10 15:33:16
Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D58290

Name	Resp	RA		RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	74577300	0.81	y	19:17	-	100.00	-	n
13C-2,3,7,8-TCDF	119663300	0.79	y	18:44	1.60	100.00	2.2	n
2,3,7,8-TCDF	12751810	0.77	y	18:45	1.07	10.00	1.3	n
Total TCDF	12927378	1.40	n	16:56	1.07	10.00	1.3	n
13C-2,3,7,8-TCDD	74654600	0.81	y	19:31	1.00	100.00	0.0	n
2,3,7,8-TCDD	7727830	0.79	y	19:32	1.04	10.00	-1.8	n
Total TCDD	7844641	0.77	y	18:16	1.04	10.00	-1.8	n
37Cl-2,3,7,8-TCDD	16705160	1.00	y	19:32	2.24	10.00	-7.3	n
13C-1,2,3,7,8-PeCDF	86555000	1.60	y	24:21	1.16	100.00	-13.2	n
1,2,3,7,8-PeCDF	50654000	1.57	y	24:23	1.17	50.00	9.4	n
2,3,4,7,8-PeCDF	48153400	1.57	y	25:51	1.11	50.00	7.4	n
Total F2 PeCDF	99588505	1.27	n	22:53	1.14	100.00	8.4	n
Total F1 PeCDF	130650	0.59	n	14:12	1.14	100.00	8.4	n
13C-1,2,3,7,8-PeCDD	56903400	1.58	y	26:37	0.76	100.00	-6.0	n
1,2,3,7,8-PeCDD	28409800	1.58	y	26:40	1.00	50.00	-3.8	n
Total PeCDD	28693632	0.92	n	24:37	1.00	50.00	-3.8	n
13C-1,2,3,7,8,9-HxCDD	63513900	1.26	y	33:01	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	68428600	0.51	y	31:49	1.08	100.00	6.2	n
1,2,3,4,7,8-HxCDF	45182300	1.24	y	31:51	1.32	50.00	6.5	n
1,2,3,6,7,8-HxCDF	52989700	1.25	y	31:58	1.55	50.00	3.9	n
2,3,4,6,7,8-HxCDF	48462100	1.26	y	32:32	1.42	50.00	5.8	n
1,2,3,7,8,9-HxCDF	40688900	1.22	y	33:12	1.19	50.00	-2.5	n
Total HxCDF	187495461	1.08	y	30:40	1.37	200.00	3.5	n
13C-1,2,3,6,7,8-HxCDD	59419100	1.28	y	32:45	0.94	100.00	5.8	n
1,2,3,4,7,8-HxCDD	29052000	1.43	y	32:40	0.98	50.00	8.3	n
1,2,3,6,7,8-HxCDD	36551700	1.18	y	32:45	1.23	50.00	3.4	n
1,2,3,7,8,9-HxCDD	34782700	1.24	y	33:02	1.17	50.00	1.1	n
Total HxCDD	100685025	1.05	y	32:06	1.13	150.00	4.0	n
13C-1,2,3,4,6,7,8-HpCDF	60266700	0.44	y	34:32	0.95	100.00	0.4	n
1,2,3,4,6,7,8-HpCDF	41895000	0.99	y	34:33	1.39	50.00	7.0	n
1,2,3,4,7,8,9-HpCDF	32846000	0.98	y	35:39	1.09	50.00	-1.0	n
Total HpCDF	75371710	0.99	y	34:33	1.24	100.00	3.3	n
13C-1,2,3,4,6,7,8-HpCDD	51070800	1.09	y	35:20	0.80	100.00	1.4	n
1,2,3,4,6,7,8-HpCDD	27699000	1.04	y	35:21	1.08	50.00	2.7	n
Total HpCDD	28096841	1.04	y	34:48	1.08	50.00	2.7	n
13C-OCDD	68766600	0.89	y	37:48	0.54	200.00	-7.0	n
OCDF	53536300	0.91	y	37:55	1.56	100.00	0.0	n
OCDD	42330200	0.91	y	37:49	1.23	100.00	3.2	n

Run text: ST0217A File text: ST0217A :CS3 09DXN425
Run #17 Filename 17FE104D5 S: 14 I: 1
Acquired: 17-FEB-10 19:06:14 Processed: 17-FEB-10 19:47:10
Run: 17FE104D5 Analyte: 8290 Cal: 82900204104D5 Results: 17FE104D58290

Name	Resp	RA		RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	140635400	0.81	y	19:17	-	100.00	-	n
13C-2,3,7,8-TCDF	247237000	0.80	y	18:45	1.76	100.00	11.9	n
2,3,7,8-TCDF	26291100	0.81	y	18:46	1.06	10.00	1.1	n
Total TCDF	26645245	0.73	y	16:57	1.06	10.00	1.1	n
13C-2,3,7,8-TCDD	141696100	0.79	y	19:31	1.01	100.00	0.7	n
2,3,7,8-TCDD	14058910	0.78	y	19:33	0.99	10.00	-5.9	n
Total TCDD	14171618	0.74	y	15:58	0.99	10.00	-5.9	n
37Cl-2,3,7,8-TCDD	32386200	1.00	y	19:33	2.30	10.00	-4.7	n
13C-1,2,3,7,8-PeCDF	157712200	1.59	y	24:21	1.12	100.00	-16.1	n
1,2,3,7,8-PeCDF	90387800	1.57	y	24:23	1.15	50.00	7.2	n
2,3,4,7,8-PeCDF	84212300	1.57	y	25:51	1.07	50.00	3.0	n
Total F2 PeCDF	176059145	1.26	n	22:53	1.11	100.00	5.1	n
Total F1 PeCDF	33613	0.14	n	16:30	1.11	100.00	5.1	n
13C-1,2,3,7,8-PeCDD	92746600	1.58	y	26:38	0.66	100.00	-18.8	n
1,2,3,7,8-PeCDD	45033000	1.56	y	26:39	0.97	50.00	-6.4	n
Total PeCDD	45070495	1.74	y	24:20	0.97	50.00	-6.4	n
13C-1,2,3,7,8,9-HxCDD	90279800	1.31	y	33:02	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	103495100	0.54	y	31:49	1.15	100.00	13.0	n
1,2,3,4,7,8-HxCDF	67080100	1.23	y	31:50	1.30	50.00	4.6	n
1,2,3,6,7,8-HxCDF	78962300	1.25	y	31:57	1.53	50.00	2.4	n
2,3,4,6,7,8-HxCDF	69531800	1.30	y	32:32	1.34	50.00	0.3	n
1,2,3,7,8,9-HxCDF	58298800	1.25	y	33:13	1.13	50.00	-7.7	n
Total HxCDF	273980004	0.97	n	30:40	1.32	200.00	0.1	n
13C-1,2,3,6,7,8-HxCDD	92589700	1.30	y	32:45	1.03	100.00	16.0	n
1,2,3,4,7,8-HxCDD	36727800	1.26	y	32:40	0.79	50.00	-12.1	n
1,2,3,6,7,8-HxCDD	54970200	1.29	y	32:46	1.19	50.00	-0.2	n
1,2,3,7,8,9-HxCDD	47947300	1.26	y	33:02	1.04	50.00	-10.5	n
Total HxCDD	139706046	1.15	y	32:08	1.01	150.00	-7.2	n
13C-1,2,3,4,6,7,8-HpCDF	88184000	0.45	y	34:32	0.98	100.00	3.4	n
1,2,3,4,6,7,8-HpCDF	60163000	0.97	y	34:33	1.36	50.00	5.0	n
1,2,3,4,7,8,9-HpCDF	47218900	0.97	y	35:39	1.07	50.00	-2.8	n
Total HpCDF	109523149	0.97	y	34:33	1.22	100.00	1.5	n
13C-1,2,3,4,6,7,8-HpCDD	70250500	1.08	y	35:20	0.78	100.00	-1.9	n
1,2,3,4,6,7,8-HpCDD	38219200	1.06	y	35:21	1.09	50.00	3.0	n
Total HpCDD	38925162	1.03	y	34:48	1.09	50.00	3.0	n
13C-OCDD	85469900	0.89	y	37:49	0.47	200.00	-18.7	n
OCDF	69471100	0.91	y	37:55	1.63	100.00	4.4	n
OCDD	52265000	0.91	y	37:49	1.22	100.00	2.5	n

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Checklist
HRGCMS/LRGCMS Analyses

Batch #: 0843244 Method ID: 8290

	DB-5	DB-225
Data Analyst:	AK	
Date initiated:	2/23/10	
Reviewer:		
Date reviewed:	2/23/10	

QA/QC verification:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Daily standard package(s) present?	✓	✓		
-Method Blank present?	✓	✓		
-LCS/DCS copy present and meets native recovery criteria?	✓	✓		
-Internal standard recoveries within limits?*	✓	✓		
-Ion ratios within + 15% of theoretical values?	①	①		
-Other QC (Dup,MS,SD) within specs?**	✓	✓		

Sample Analysis:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Correct sample aliquot used?	✓	✓		
-All raw data present?	✓	✓		
-Standard target DL's used? If RL's are used specify:	✓	✓		
-DL's below (TDL / LCL (please circle)?	✓	✓		
-All positives reported at levels greater than method blank DL's?	✓	✓		
-Correct RRF's used for method?	✓	✓		
-Internal standard amounts correct for method?	✓	✓		
-Target analytes are not saturated?	✓	✓		
-Dilution/splitting of extract taken into account?	NA	NA		
-Have dilution calculations been verified?	NA	NA		
-Has a manual calculation for the sequence(s) been verified?	✓	✓		
-Are retention times (RT) correct?	✓	✓		
-Manual integrations checked?	✓	✓		

Comments: (Use other side if necessary)
OSeeNCM

* Recovery limits:		**RPD limits:
NCASI 551:	40-120%***	50%
Method 8290:	40-135%***	20%
Method 1613:	25-150%***	50%
Method 23:	40-130%***(Cl4-Cl6), 25-130%(Cl7-8), 70-130%(surr.)	50%
PCBs:	25-150%***	50%
Method 8280:	40-120%***	
DFLM01.0:	25-150%***	
Method 1614	25-150%***	

*** Lower recoveries are acceptable if I.S. S/N ≥10:1 and DL's are <LCI for target analytes.

QA-371 07/99 MAF

TestAmerica West Sacramento
High Resolution Prep Log
Dioxin/Furan AQ Extraction

Box # 14

Shared QC Batch: Same

Shares QC With: 0043251, 0043250, 0043248

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THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	✓ 2/15/10
Inst Receipt:	

Batch: 0043244

MS Run #:

Prep Date: 2/12/2010

Method: Q& 8290A

Matrix: I WATER

Extraction: 09 LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

QC: 01 STANDARD TEST SET

SAC: Q& - I - 09 - 01

Prep Reagents

Reagent	Supplier	Lot #
DCM	Baker	H40502
Hexane	Baker	H33E04
H2SO4	Baker	NA
20% DCM:Hexane	NA	3630-48E
65% DCM:Hexane	NA	3630-48D
1:1 DCM:Cyclohexane	NA	NA
75:20:5 DCM:Hexane:Benzene	NA	NA
Silica Gel	Whatman	22-22
Acid Alumina	MP Bio	18
5% Carbon:Silica Gel	NA	NA

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size * 1000mL	Initial Weight	Final Weight	Final Volume 20uL	Final Volume Other	Analysis Hold Time Expires	Extraction ID	Rotovap ID
G0B040517 - 2		LT76V1AA	3/4/2010	1054.3	1551.5	497.2			3/29/2010		
G0B040517 - 4		LT76X1AA	3/4/2010	1051.6	1548.9	497.3			3/29/2010		
G0B040517 - 4	S	LT76X1AC	3/4/2010	1052.0	1549.5	497.5			3/29/2010		
G0B040517 - 4	D	LT76X1AD	3/4/2010	1054.4	1551.1	496.7			3/29/2010		
G0B040517 - 10		LT7691AA	3/4/2010	1055.5	1552.9	497.4		2/15/10	3/29/2010	2/15/10	2/15/10
G0B040517 - 12		LT77C1AA	3/4/2010	1025.2	1516.3	491.1			3/29/2010		
G0B120000 - 244	B	LVLQM1AA	3/4/2010	1000	NA	NA			3/29/2010		
G0B120000 - 244	C	LVLQM1AC	3/4/2010	1000.0					3/29/2010		

* See attached sheet for sample volumes recorded from scale

Comments/NCMs:

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Internal Standard All Samples	1M 10DXN051	10/31/10	BG	[illegible]	2/12/10
Spike Mix LCS/LCSD/MS/MS	50u 10DXN005	1/11/11	BG	[illegible]	2/12/10
Cleanup Standard All Samples	1.0mL 10DXN048	10/30/2010	[illegible]	T.L	02/15/10
Recovery Standard All Samples	20.4 09DXN388	11/19/10	[illegible]	[illegible]	2/15/10
Liq Liq Extraction Analyst/Date	BG 2/12/10				

Split/Archive Analyst/Date	Option C Analyst/Date	IFB Analyst/Date	D2 Analyst/Date
—	—	T.L 02/15/10	—

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 2/15/10
Time: 16:15:38

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
Y	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets
				_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 403613 Brent Ginn

Concentrationist: 006625 Elizabeth Nguyen

QC BATCH: 0043244

PREP DATE: 2/12/10 11:00
COMP DATE: 2/15/10 17:00

Reviewer/Date: NGUYENE / 2/15/10

Dioxins/Furans, HRGC/HRMS (8290A)
LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/04/10	2/22/10	G0B040517-002 **LT76V-1-AA**	D	09	Q&	WATER	**1054.3mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS10DXN051
COMMENTS:															
3/04/10	2/22/10	G0B040517-004 **LT76X-1-AA**	D	09	Q&	WATER	**1051.6mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS10DXN051
COMMENTS:															
3/04/10	2/22/10	G0B040517-004 **LT76X-1-ACS**	D	09	Q&	WATER	**1052.0mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	20.0	50UL NS10DXN005 1.0ML IS10DXN051
COMMENTS:															
3/04/10	2/22/10	G0B040517-004 **LT76X-1-ADD**	D	09	Q&	WATER	**1054.4mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	20.0	50UL NS10DXN005 1.0ML IS10DXN051
COMMENTS:															
3/04/10	2/22/10	G0B040517-010 **LT769-1-AA**	D	09	Q&	WATER	**1055.5mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS10DXN051
COMMENTS:															
3/04/10	2/22/10	G0B040517-012 **LT77C-1-AA**	D	09	Q&	WATER	**1025.2mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS10DXN051
COMMENTS:															
3/04/10	0/00/00	G0B120000-244 **LVLQM-1-AAB**		09	Q&	WATER	**1000.0mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS10DXN051
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 2/15/10
Time: 16:15:38

****
* QC BATCH: 0043244 *
****

PREP DATE: 2/12/10 11:00
COMP DATE: 2/15/10 17:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/04/10	0/00/00	G0B120000-244 **LVLQM-1-ACC**		09	Q&	WATER	**1000.0mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	20.0	50UL NS10DXN005 1.0ML IS10DXN051

COMMENTS:

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD
‡

NUMBER OF WORK ORDERS IN BATCH: 8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0043244 **Test:** 8290

Prep Date: 2/12/10 **Holding Times:** 3/4/10 **NCM:** Y (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. **Holding times checked?** NCMs filed as appropriate	✓	
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	✓	
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.	✓	NA
4. Worksheets have been checked for required spiking compounds	✓	
5. Spiking volumes are correctly documented	✓	
6. Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7. Expiration dates have been checked	✓	
8. Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet	✓	
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	
2. Balance upload or raw data for weights is included	NA	
3. Weights and volumes have been transcribed correctly to LIMS.	NA	
4. Weights are not targeted to meet exact weights.	NA	
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	
2. Are dates and analysts for cleanups recorded?	NA	
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	
2. QuantIMs entry correct, including dates and times.	NA	
3. Are all fields completed?	NA	

Spike witness: [signature] Date: 2/12/10

2nd Level Reviewer: [signature] Date: 2/15/10

Comments:

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING	Test America – West Sacramento Daily Calibration Checklist Dioxin Methods

Method ID 8290 **Associated ICAL** 829002041 04D5

Column ID DB5 **Instrument ID** 4D5

STD ID ST0217, ST0217A **STD Solution** 09DXN425

Analyzed by KSS **Date Analyzed** 2-17-10

Std. Pkg. By SH **Date Std. Pkg. Assembled** 2-18-10

Std. Pkg. Reviewed By MQ **Date Std. Pkg. Reviewed** 2/18/10

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?**	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for **all** 1613B samples)	NA	NA

COMMENTS:

* **Method 8290/TO9/M0023A: (beginning)** ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.
Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.
Method 23: See Method 23 Daily Standard Criteria, Table 5.
Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria,

** **Method 23/0023A CPSM Criteria**: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet
Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Test America – West Sacramento

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Initial Calibration Checklist
Dioxin Methods

ICAL ID (8290,1613,Tetras,T09,23,0023A) 0204104D5

Method ID 8290,1613B,Tetras,T09,M23,0023A Date Scanned _____

Column ID DB5 Instrument ID 4D5

STD ID's ST0204, ST0204A → D STD Solution (09DXN) · 422,423,425,426,456

GC Program OCDD Multiplier Setting 410 kV

Analyzed By KSS Date Analyzed 02-04-10

Prepared By KSS Date Prepared 02-04-10

Reviewed By M.G. Date Reviewed 2/5/10

Curve summary present?	✓	✓
Hardcopies of chromatograms for CS1-CS5 present?	✓	✓
Copy of log-file present?	✓	✓
Static resolution check present?	✓	✓
Target file RT's correct?	✓	✓
%RSD within method-specified limits?*	✓	✓
Signal-to-noise criteria met?	✓	✓
Isotopic ratios within limits?	✓	✓
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
Manual reintegration's checked and hardcopies included?	✓	✓

COMMENTS:

ICAL Abs CS3 RS RT's = 19:24, 33:05

*Method 8290/TO9/M0023A: %RSD ≤20% for natives, ≤30% for labeled compounds; S/N≥10
Method 1613B: %RSD≤ 20% natives, ≤30% labeled compounds; S/N ≥10
Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N ≥ 2.5

N:\Hires\Forms\QA-384 Dioxins ICAL Checklist.doc QA-384 7/26/06 DAW

B. PROJECT NUMBER G0B250507

Organic Analyses Support Documentation

Environmental Standards Project Name: Lorenzo
Sample Collection Dates: 2/2/10
Job Number: 20105508.A000
Project Manager: KLE
Laboratory: TA

Reviewed By:
Approved By:
Completion Date: 3/10/10

Applicable Sample No's.: ☑ Refer to Table 1 in the Quality Assurance Review

Deliverables: CLP (like) ☑
Tier I ☐
Tier II ☐
Limited ☐
Other

Sample No.	Lab. Control No.
Project #G0B25 0507	

The following table indicates criteria which were examined, the identified problems, and support documentation attachments.

	Criteria Examined in Detail (Check (✓) If Yes or Footnote Letter for Comments Below)				Problems Identified (Check (✓) If Yes or Footnote Number for Comments Below)				Support Documentation Attachments (Check (✓) If Yes -- or Identify Attachment No.)			
	VOA Method	BNA Method	PEST / PCB Method	Other Method(s) 8260A	VOA Method	BNA Method	PEST / PCB Method	Other Method(s)	VOA Method	BNA Method	PEST / PCB Method	Other Method(s) 8260A
Holding Times												
Blank Analysis Results: Target Compounds												
Blank Analysis Results: TICs												
System Mntr. Cmpds. &/or Surrogate Spike Rslts.												
Matrix Spike / Matrix Spike Duplicate Results												
Blank Spike Results												
Duplicate Analysis Results ☐ Field ☐ Lab												
Qualitative Identification: Target Compounds												
Qualitative Identification: TICs												
DFTPP & BFB Mass Tuning												
GC Instrument Performance												
Initial Calibrations												
Continuing Calibrations												
Quantitation of Results												
DDT / Endrin Breakdown												
Surrogate Retention Time Shifts												
Internal Standards Performance												
Resolution Check Standards												
Analytical Sequence												
Florisil Cartridge Check & GPC Calibration												
GC Column Agreement												
Others:												

N/A

PE Sample

Comments:

BLANK ANALYSIS RESULTS FOR TARGET ORGANIC COMPOUNDS

Fraction (1)	Matrix (Aq., S)	Blank Type (2)	Blank Sample Number	Contaminant	Concentration (units)	Qualification Limit	
						5x	10x
				N/A PE Sample			

1 – V = Volatile; S = Semivolatile; P = Pesticide/PCB; O = Other: __________

Aq. = Aqueous; S = Solid

2 – MB = Method Blank; TB = Trip Blank; EB = Equipment Rinse Blank; FB = Field Blank
IB = Instrument Blank; SB = Storage Blank

* = Inferred from instrument printouts and/or supporting data; mass spectra not provided.

+ = Contaminant observed on one column only.

Notes: __________

PE sample

Loureiro Engineering Associates Inc

Sample ID: 1138344

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B250507 - 001	**Work Order #....:**	LV3T71AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	1
Prep Date....:	02/25/10	**Analysis Date....:**	03/02/10		
Prep Batch # ....:	0056319	**Instrument ID....:**	3D5		
Initial Wgt/Vol :	992.93 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	**68**		**10**	**0.39**	**pg/L**
Total TCDD	**68**		**10**	**0.39**	**pg/L**
1,2,3,7,8-PeCDD	ND		50	0.60	pg/L
Total PeCDD	ND		50	0.60	pg/L
1,2,3,4,7,8-HxCDD	ND		50	0.49	pg/L
1,2,3,6,7,8-HxCDD	ND		50	0.40	pg/L
1,2,3,7,8,9-HxCDD	ND		50	0.42	pg/L
Total HxCDD	ND		50	0.49	pg/L
1,2,3,4,6,7,8-HpCDD	**1.6**	**J B**	**50**	**0.87**	**pg/L**
Total HpCDD	**3.8**		**50**	**0.87**	**pg/L**
OCDD	**4.6**	**J Q B**	**100**	**0.95**	**pg/L**
2,3,7,8-TCDF	ND		10	0.30	pg/L
Total TCDF	ND		10	0.30	pg/L
1,2,3,7,8-PeCDF	ND		50	0.38	pg/L
2,3,4,7,8-PeCDF	ND		50	0.40	pg/L
Total PeCDF	ND		50	0.40	pg/L
1,2,3,4,7,8-HxCDF	ND		50	0.34	pg/L
1,2,3,6,7,8-HxCDF	ND		50	0.31	pg/L
2,3,4,6,7,8-HxCDF	ND		50	0.33	pg/L
1,2,3,7,8,9-HxCDF	ND		50	0.38	pg/L
Total HxCDF	ND		50	0.38	pg/L
1,2,3,4,6,7,8-HpCDF	**1.2**	**J B**	**50**	**0.38**	**pg/L**
1,2,3,4,7,8,9-HpCDF	ND		50	0.46	pg/L
Total HpCDF	**2.3**		**50**	**0.41**	**pg/L**
OCDF	**2.2**	**J B**	**100**	**0.90**	**pg/L**

\\qsacsql1\QDSApps\SOG_Stnd\EDL_RL_Report.rpt 3/4/2010

Loureiro Engineering Associates Inc

Sample ID: 1138344

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B250507 - 001	**Work Order #....:**	LV3T71AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	1
Prep Date....:	02/25/10	**Analysis Date....:**	03/02/10		
Prep Batch # ....:	0056319	**Instrument ID....:**	3D5		
Initial Wgt/Vol :	992.93 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	40 - 135
13C-1,2,3,7,8-PeCDD	78	40 - 135
13C-1,2,3,6,7,8-HxCDD	90	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	93	40 - 135
13C-OCDD	89	40 - 135
13C-2,3,7,8-TCDF	82	40 - 135
13C-1,2,3,7,8-PeCDF	80	40 - 135
13C-1,2,3,4,7,8-HxCDF	87	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	89	40 - 135

QUALIFIERS

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

\\qsacsql1\QDSApps\SOG_Stnd\EDL_RL_Report.rpt 3/4/2010

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	G0B250507	**Work Order # ...:**	LV4HR1AC-LCS	**Matrix .....:**	WATER
LCS Lot-Sample# :	G0B250000 - 319				
Prep Date .....:	02/25/10	**Analysis Date ..:**	03/02/10		
Prep Batch # ...:	0056319				
Dilution Factor :	1				
Analyst ID.....:	Alora Kuczynski	**Instrument ID..:**	3D5	**Method.....:**	SW846 8290A
Initial Wgt/Vol:	1000 mL				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS
2,3,7,8-TCDD	**200**	**196**	**pg/L**	**98**	**(64 - 142)**
1,2,3,7,8-PeCDD	**1000**	**987**	**pg/L**	**99**	**(71 - 140)**
1,2,3,4,7,8-HxCDD	**1000**	**1100**	**pg/L**	**110**	**(56 - 146)**
1,2,3,6,7,8-HxCDD	**1000**	**1030**	**pg/L**	**103**	**(73 - 144)**
1,2,3,7,8,9-HxCDD	**1000**	**1080**	**pg/L**	**108**	**(71 - 151)**
1,2,3,4,6,7,8-HpCDD	**1000**	**983**	**pg/L**	**98**	**(78 - 139)**
OCDD	**2000**	**2010**	**pg/L**	**101**	**(80 - 132)**
2,3,7,8-TCDF	**200**	**204**	**pg/L**	**102**	**(71 - 142)**
1,2,3,7,8-PeCDF	**1000**	**1000**	**pg/L**	**100**	**(76 - 135)**
2,3,4,7,8-PeCDF	**1000**	**1020**	**pg/L**	**102**	**(74 - 137)**
1,2,3,4,7,8-HxCDF	**1000**	**1060**	**pg/L**	**106**	**(75 - 131)**
1,2,3,6,7,8-HxCDF	**1000**	**1020**	**pg/L**	**102**	**(76 - 133)**
2,3,4,6,7,8-HxCDF	**1000**	**1060**	**pg/L**	**106**	**(80 - 137)**
1,2,3,7,8,9-HxCDF	**1000**	**1120**	**pg/L**	**112**	**(77 - 142)**
1,2,3,4,6,7,8-HpCDF	**1000**	**1030**	**pg/L**	**103**	**(79 - 133)**
1,2,3,4,7,8,9-HpCDF	**1000**	**1150**	**pg/L**	**115**	**(83 - 130)**
OCDF	**2000**	**2010**	**pg/L**	**101**	**(72 - 140)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	83	(40 - 135)
13C-1,2,3,7,8-PeCDD	77	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	83	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	97	(40 - 135)
13C-OCDD	99	(40 - 135)
13C-2,3,7,8-TCDF	83	(40 - 135)
13C-1,2,3,7,8-PeCDF	78	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	84	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	90	(40 - 135)

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Method Blank Report

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B250000 - 319B	**Work Order #....:**	LV4HR1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	1
Prep Date....:	02/25/10	**Analysis Date....:**	03/02/10		
Prep Batch # ....:	0056319	**Instrument ID....:**	3D5		
Initial Wgt/Vol :	1000 mL	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	0.38	pg/L
Total TCDD	ND		10	0.38	pg/L
1,2,3,7,8-PeCDD	ND		50	0.68	pg/L
Total PeCDD	ND		50	0.68	pg/L
1,2,3,4,7,8-HxCDD	ND		50	0.50	pg/L
1,2,3,6,7,8-HxCDD	ND		50	0.41	pg/L
1,2,3,7,8,9-HxCDD	ND		50	0.42	pg/L
Total HxCDD	ND		50	0.50	pg/L
1,2,3,4,6,7,8-HpCDD	**0.90**	**J Q**	**50**	**0.64**	**pg/L**
Total HpCDD	**2.5**		**50**	**0.64**	**pg/L**
OCDD	**4.0**	**J**	**100**	**0.46**	**pg/L**
2,3,7,8-TCDF	**0.24**	**J Q**	**10**	**0.18**	**pg/L**
Total TCDF	**0.48**		**10**	**0.18**	**pg/L**
1,2,3,7,8-PeCDF	ND		50	0.32	pg/L
2,3,4,7,8-PeCDF	ND		50	0.34	pg/L
Total PeCDF	ND		50	0.34	pg/L
1,2,3,4,7,8-HxCDF	ND		50	0.30	pg/L
1,2,3,6,7,8-HxCDF	ND		50	0.27	pg/L
2,3,4,6,7,8-HxCDF	ND		50	0.29	pg/L
1,2,3,7,8,9-HxCDF	ND		50	0.34	pg/L
Total HxCDF	ND		50	0.34	pg/L
1,2,3,4,6,7,8-HpCDF	**0.54**	**J Q**	**50**	**0.39**	**pg/L**
1,2,3,4,7,8,9-HpCDF	ND		50	0.47	pg/L
Total HpCDF	**0.54**		**50**	**0.43**	**pg/L**
OCDF	**1.5**	**J**	**100**	**0.44**	**pg/L**

All QC & calibrations associated with PB sample and/or no impact for anything that may be out of criteria.

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Method Blank Report

Trace Level Organic Compounds

SW846 8290A

Lot - Sample #....:	G0B250000 - 319B	**Work Order #....:**	LV4HR1AA	**Matrix....:**	WATER
Date Sampled....:	02/02/10	**Date Received....:**	02/04/10	**Dilution Factor:**	1
Prep Date....:	02/25/10	**Analysis Date....:**	03/02/10		
Prep Batch # ....:	0056319	**Instrument ID....:**	3D5		
Initial Wgt/Vol :	1000 mL	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	85	40 - 135
13C-1,2,3,7,8-PeCDD	85	40 - 135
13C-1,2,3,6,7,8-HxCDD	86	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	103	40 - 135
13C-OCDD	89	40 - 135
13C-2,3,7,8-TCDF	85	40 - 135
13C-1,2,3,7,8-PeCDF	86	40 - 135
13C-1,2,3,4,7,8-HxCDF	84	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	94	40 - 135

QUALIFIERS

J Estimated Result.

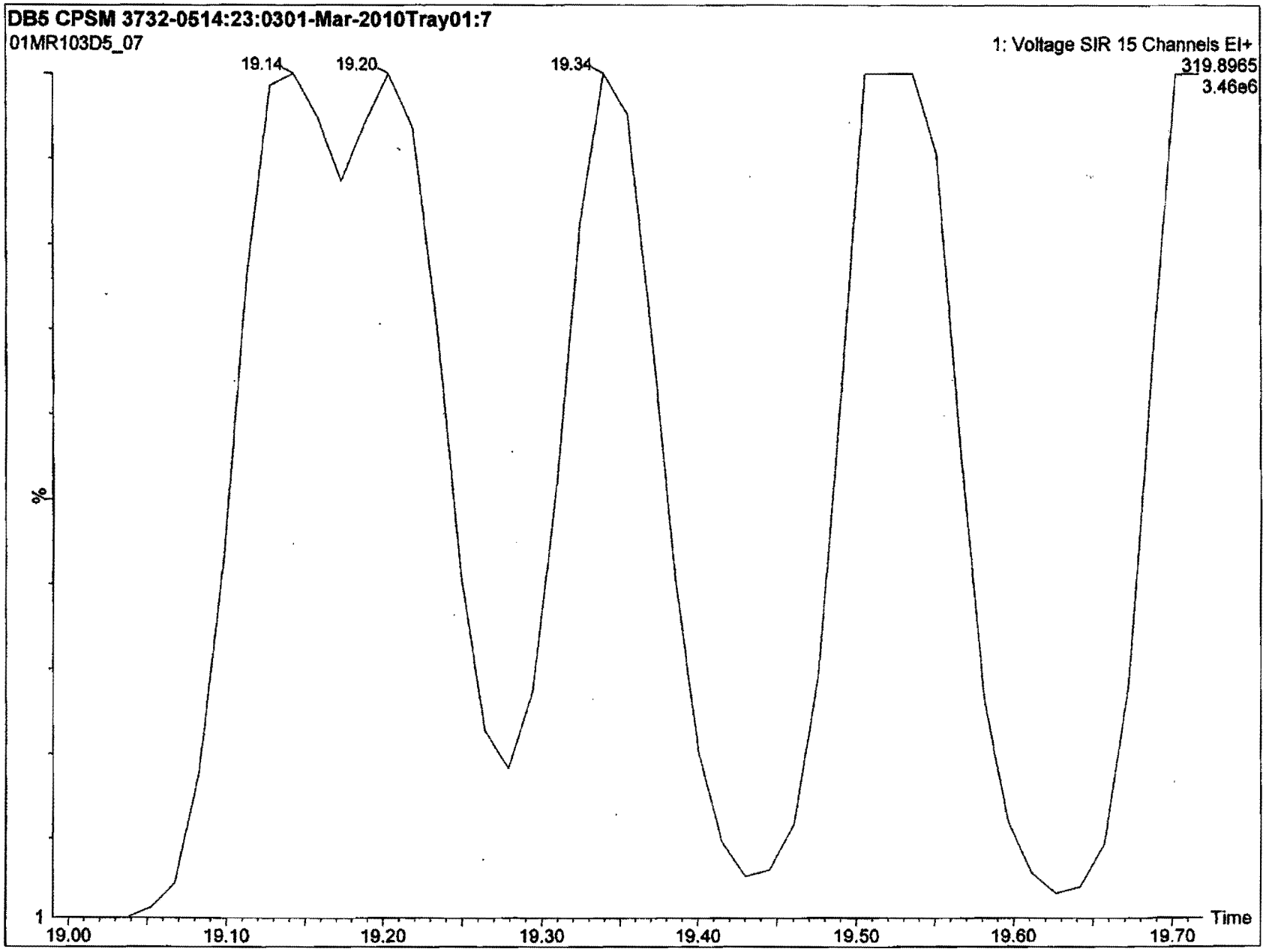
Q Estimated maximum possible concentration (EMPC).

\\qsacsql1\QDSApps\SOG_Stnd\EDL_RL_Report.rpt 3/4/2010

Sample List Report **MassLynx 4.1**

Sample List: C:\MassLynx\JAN2010.PRO\SampleDB\01MR103D5.SPL
Last Modified: Monday, March 01, 2010 14:23:18 Pacific Standard Time
Printed: Monday, March 01, 2010 14:23:22 Pacific Standard Time Page Position (1, 1)

	File Name	File Text	Sample ID	Meth/Matrix	BOX #	Sample Size	Units	Bottle	FV_uL
1	01MR103D5_01	CS-3 10DXN049	ST0301	---	---	1.000000	---	Tray01:1	---
2	01MR103D5_02	CS-2 09DXN423	ST0301A	---	---	1.000000	---	Tray01:2	---
3	01MR103D5_03	CS-1 09DXN422	ST0301B	---	---	1.000000	---	Tray01:3	---
4	01MR103D5_04	CS-5 09DXN456	ST0301C	---	---	1.000000	---	Tray01:4	---
5	01MR103D5_05	CS-4 09DXN426	ST0301D	---	---	1.000000	---	Tray01:5	---
6	01MR103D5_06	2nd Source 09DXN449	ST0301E	1613B/8290		1.000000	---	Tray01:6	20
7	01MR103D5_07	DB5 CPSM 3732-05	CP0301	---	---	1.000000	---	Tray01:7	---

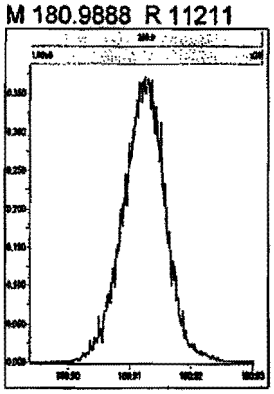

DB5 CPSM 3732-0514:23:0301-Mar-2010Tray01:7
01MR103D5_07
1: Voltage SIR 15 Channels EI+
319.8965
3.46e6
19.14
19.20
19.34
%
1
19.00
19.10
19.20
19.30
19.40
19.50
19.60
19.70
Time

Experiment Calibration Report **MassLynx 4.1** Page 1 of 1

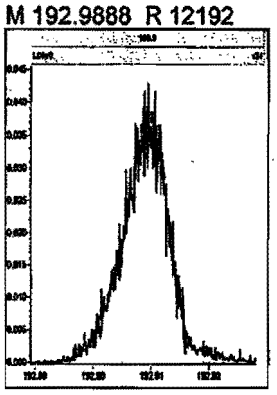
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, March 01, 2010 09:44:35 Pacific Standard Time

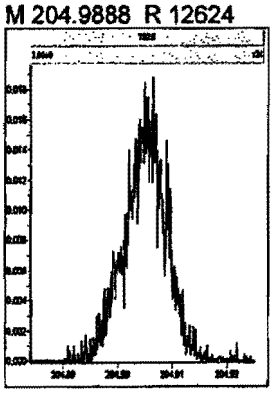
M 180.9888 R 11211



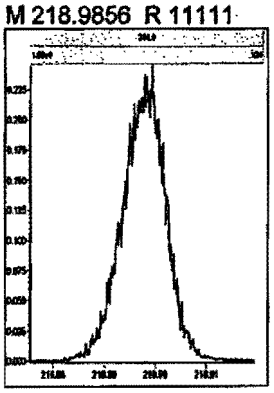
M 192.9888 R 12192



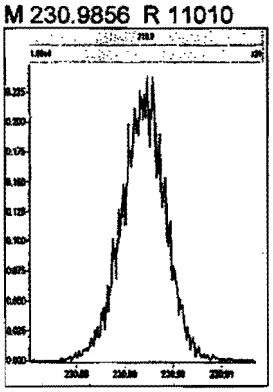
M 204.9888 R 12624



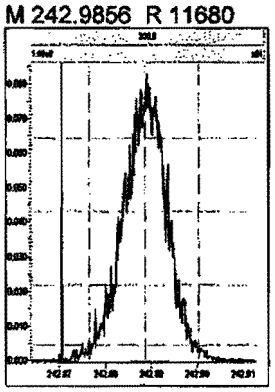
M 218.9856 R 11111



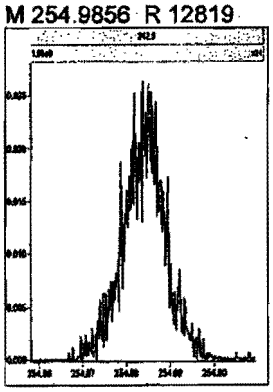
M 230.9856 R 11010



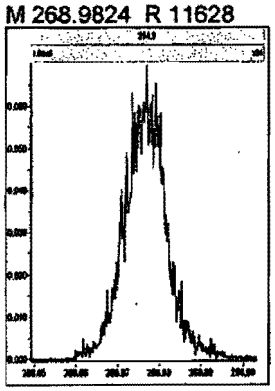
M 242.9856 R 11680



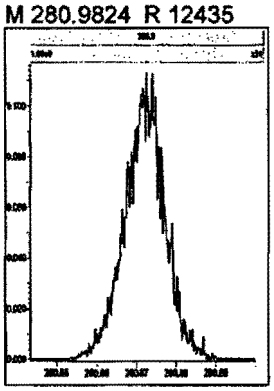
M 254.9856 R 12819



M 268.9824 R 11628



M 280.9824 R 12435

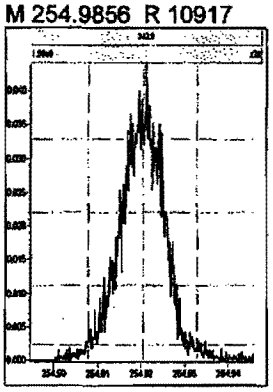


Experiment Calibration Report **MassLynx 4.1** Page 1 of 1

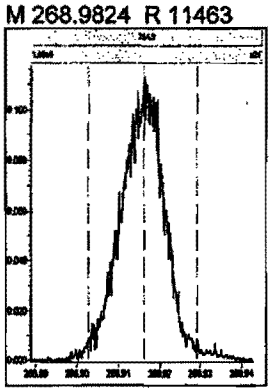
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, March 01, 2010 09:45:37 Pacific Standard Time

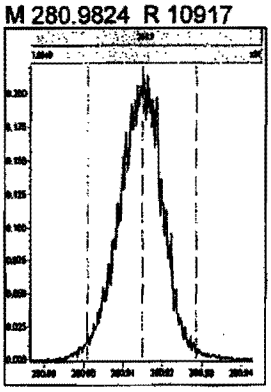
M 254.9856 R 10917



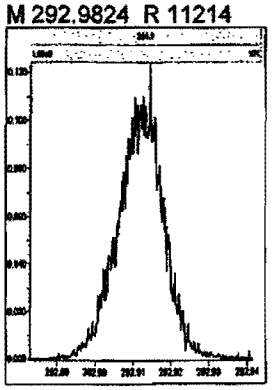
M 268.9824 R 11463



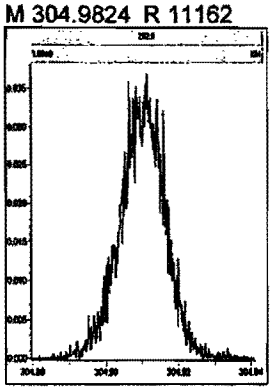
M 280.9824 R 10917



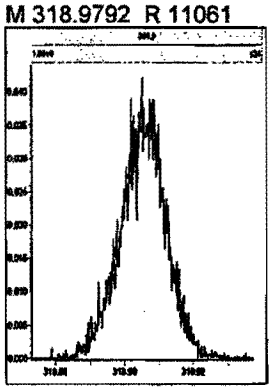
M 292.9824 R 11214



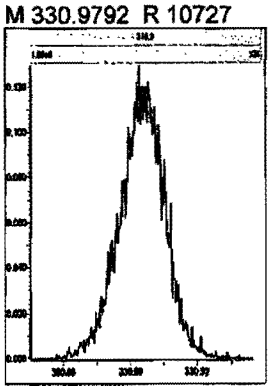
M 304.9824 R 11162



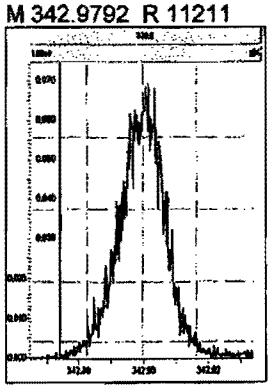
M 318.9792 R 11061



M 330.9792 R 10727



M 342.9792 R 11211

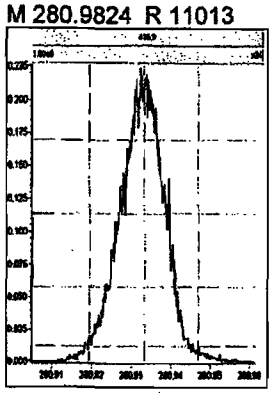


Experiment Calibration Report **MassLynx 4.1** Page 1 of 1

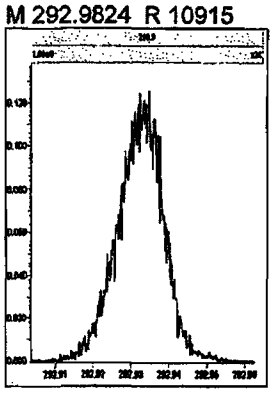
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, March 01, 2010 09:46:00 Pacific Standard Time

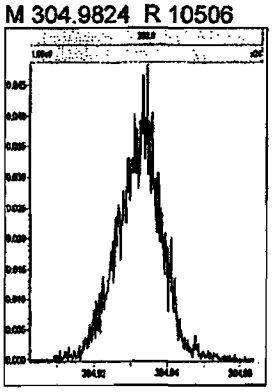
M 280.9824 R 11013



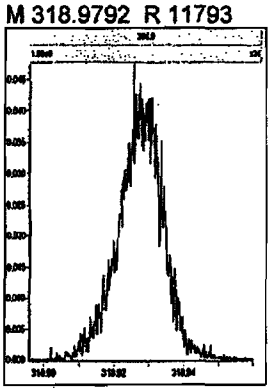
M 292.9824 R 10915



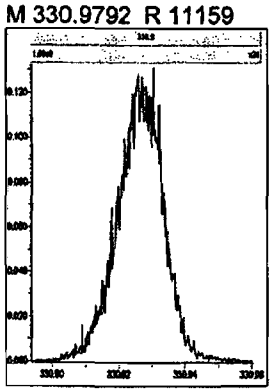
M 304.9824 R 10506



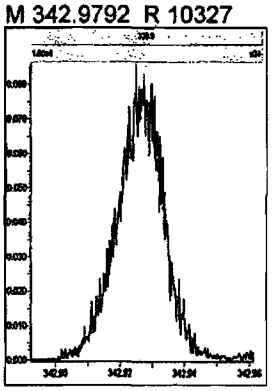
M 318.9792 R 11793



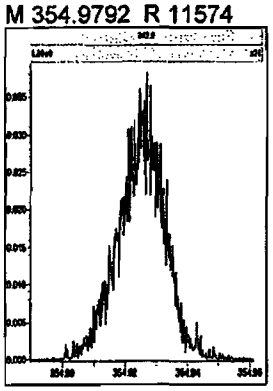
M 330.9792 R 11159



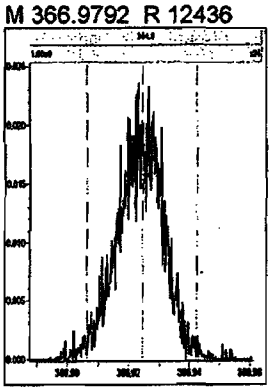
M 342.9792 R 10327



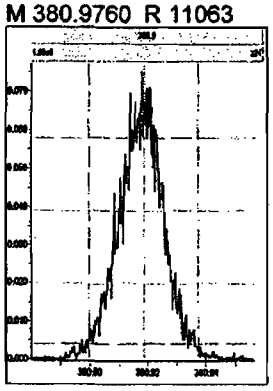
M 354.9792 R 11574



M 366.9792 R 12436



M 380.9760 R 11063



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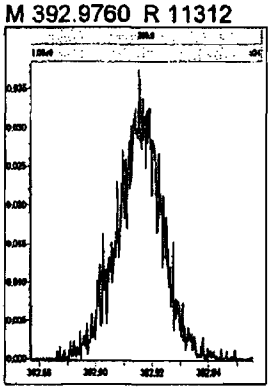
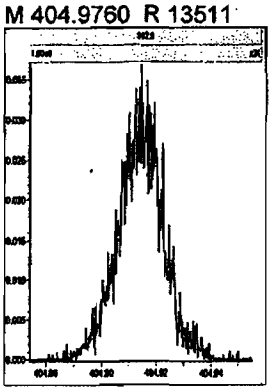
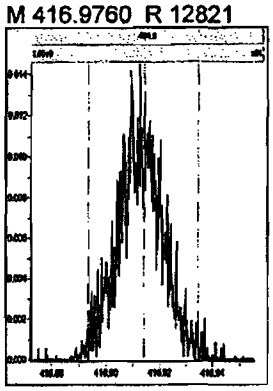


M 404.9760 R 13511



M 416.9760 R 12821

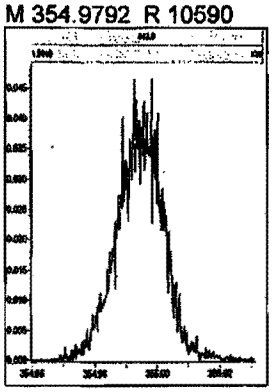


Experiment Calibration Report **MassLynx 4.1**

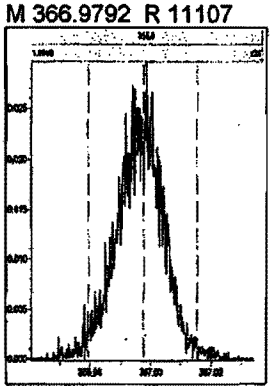
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, March 01, 2010 09:46:35 Pacific Standard Time

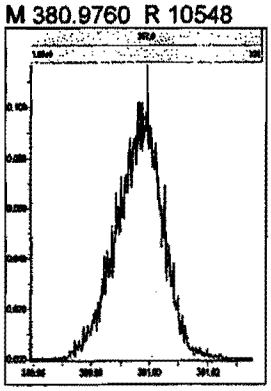
M 354.9792 R 10590



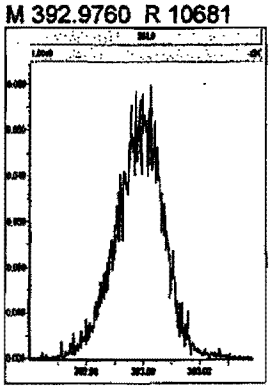
M 366.9792 R 11107



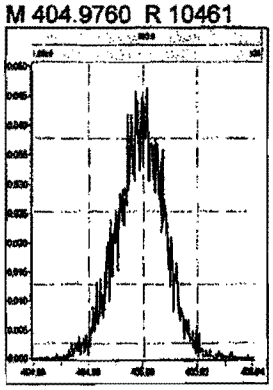
M 380.9760 R 10548



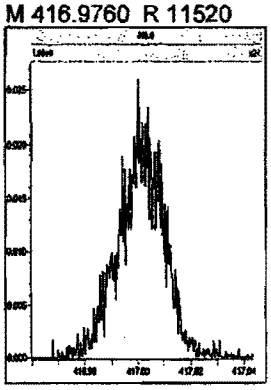
M 392.9760 R 10681



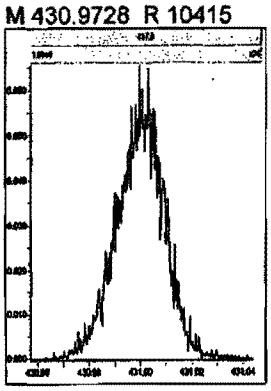
M 404.9760 R 10461



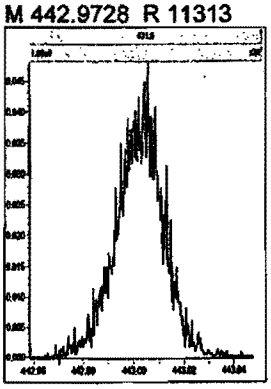
M 416.9760 R 11520



M 430.9728 R 10415



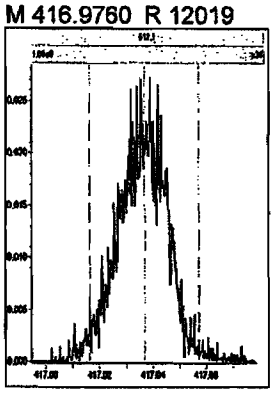
M 442.9728 R 11313



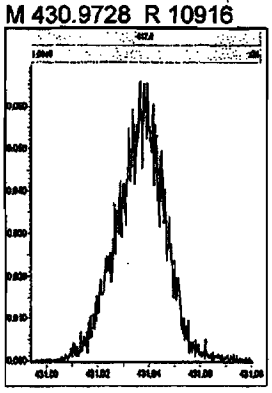
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, March 01, 2010 09:47:40 Pacific Standard Time

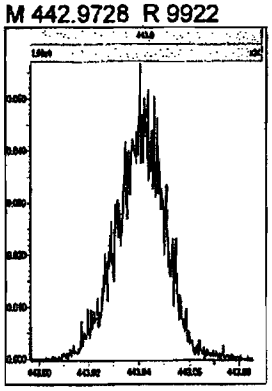
M 416.9760 R 12019



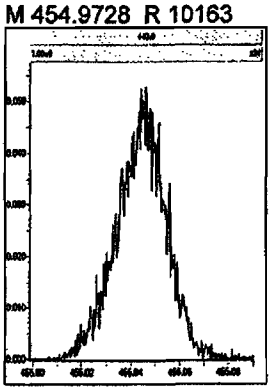
M 430.9728 R 10916



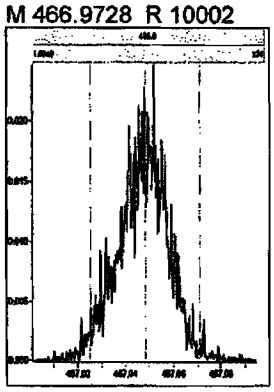
M 442.9728 R 9922



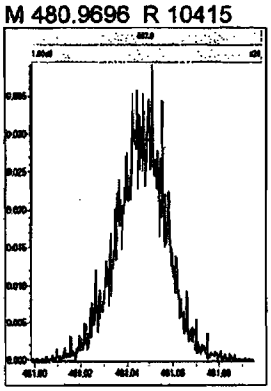
M 454.9728 R 10163



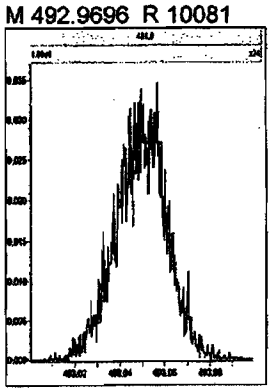
M 466.9728 R 10002



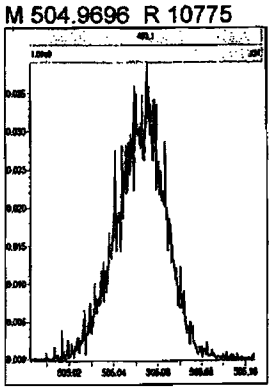
M 480.9696 R 10415



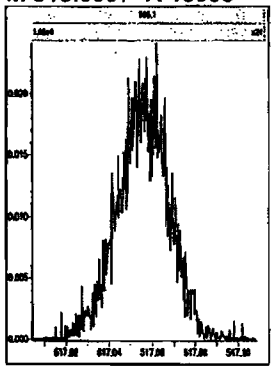
M 492.9696 R 10081



M 504.9696 R 10775



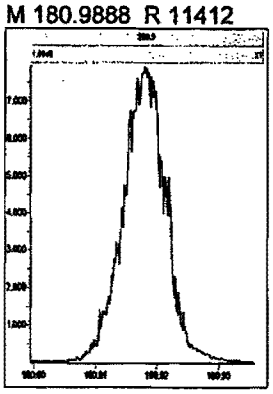
M 516.9697 R 10505



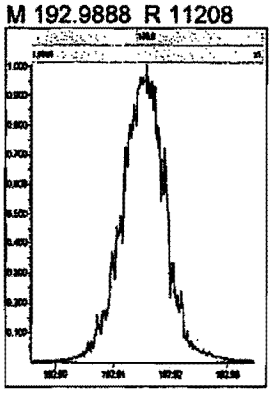
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, March 01, 2010 15:11:32 Pacific Standard Time

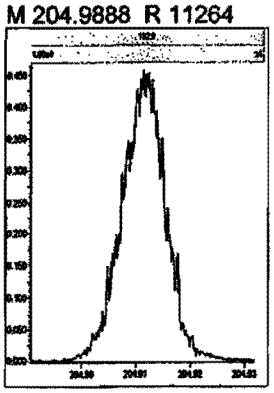
M 180.9888 R 11412



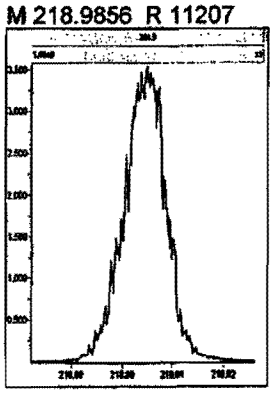
M 192.9888 R 11208



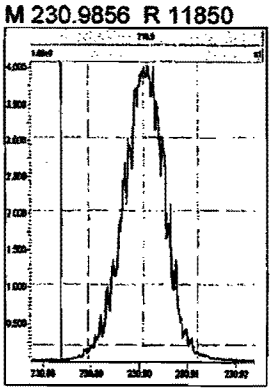
M 204.9888 R 11264



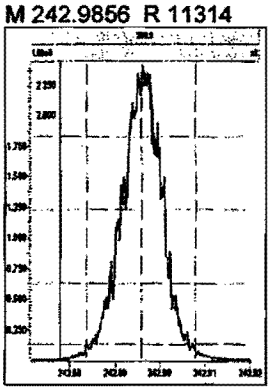
M 218.9856 R 11207



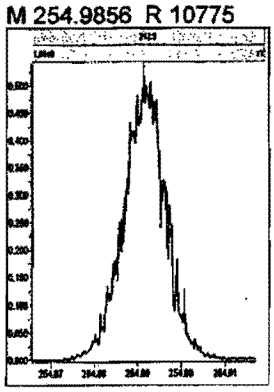
M 230.9856 R 11850



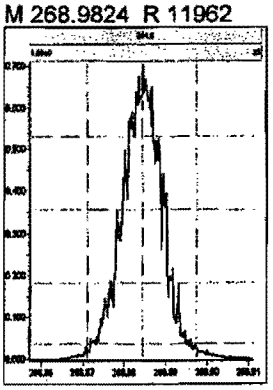
M 242.9856 R 11314



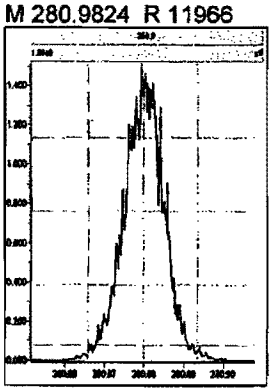
M 254.9856 R 10775



M 268.9824 R 11962



M 280.9824 R 11966

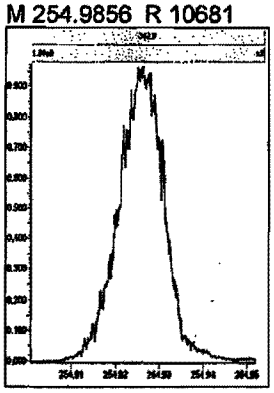


Experiment Calibration Report **MassLynx 4.1** Page 1 of 1

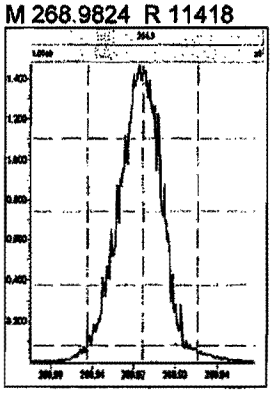
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, March 01, 2010 15:11:54 Pacific Standard Time

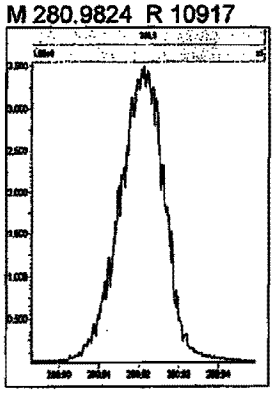
M 254.9856 R 10681



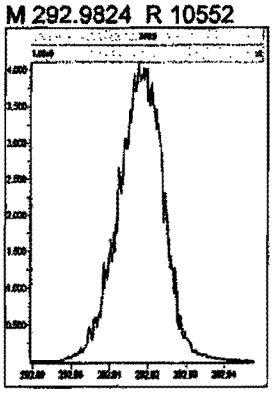
M 268.9824 R 11418



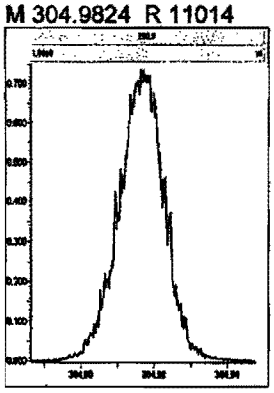
M 280.9824 R 10917



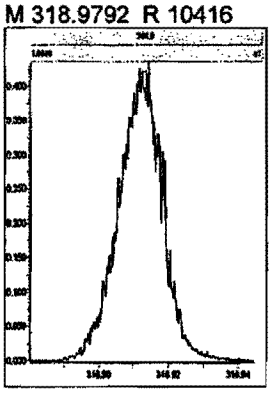
M 292.9824 R 10552



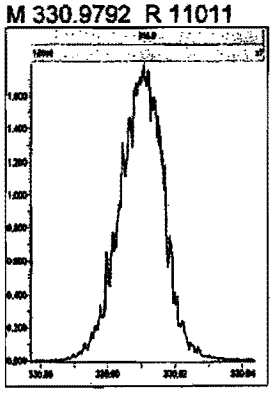
M 304.9824 R 11014



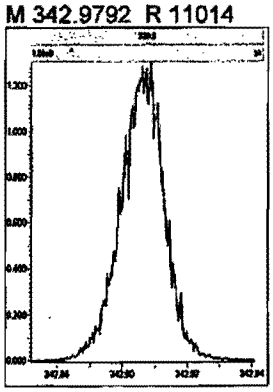
M 318.9792 R 10416



M 330.9792 R 11011



M 342.9792 R 11014

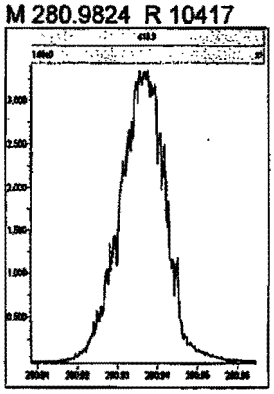


Experiment Calibration Report **MassLynx 4.1** Page 1 of 1

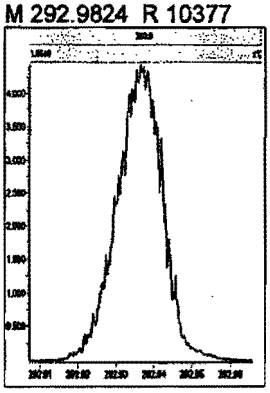
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, March 01, 2010 15:12:50 Pacific Standard Time

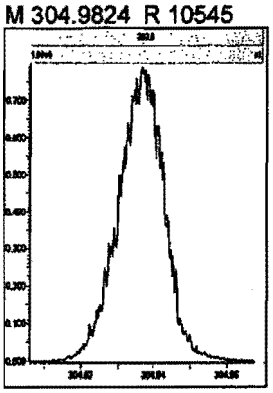
M 280.9824 R 10417



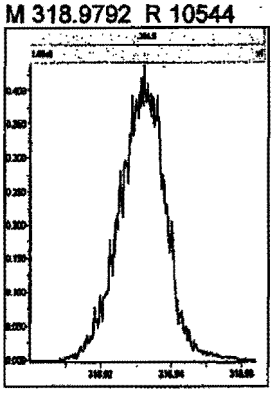
M 292.9824 R 10377



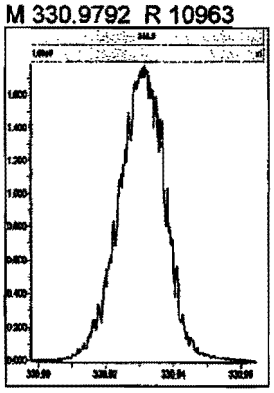
M 304.9824 R 10545



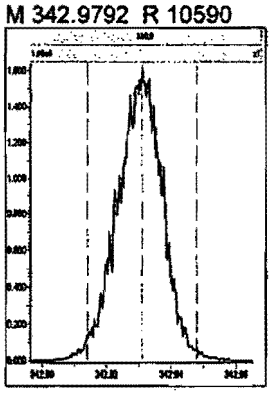
M 318.9792 R 10544



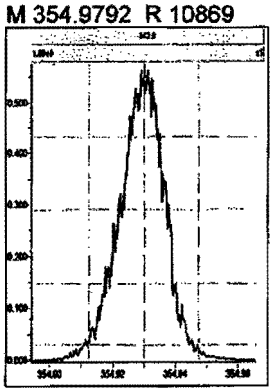
M 330.9792 R 10963



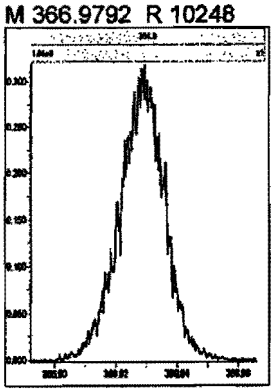
M 342.9792 R 10590



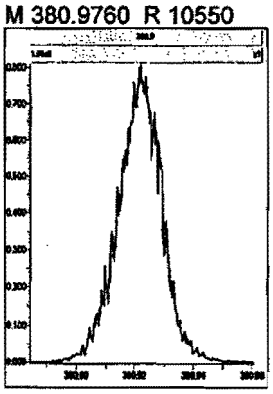
M 354.9792 R 10869



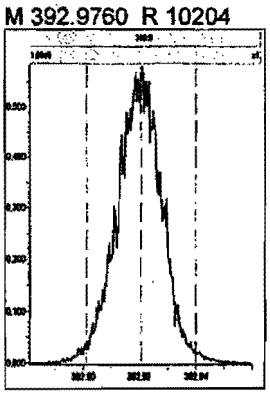
M 366.9792 R 10248



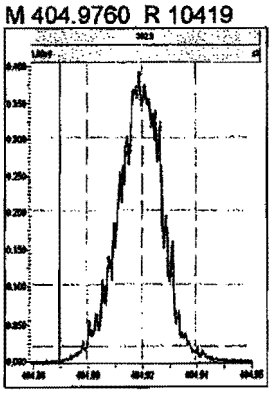
M 380.9760 R 10550



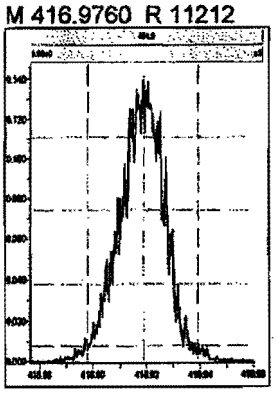
M 392.9760 R 10204



M 404.9760 R 10419



M 416.9760 R 11212



File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

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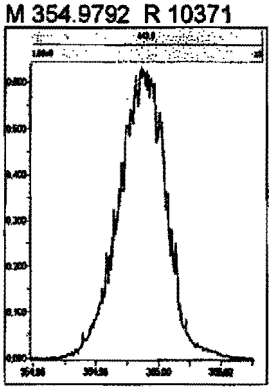
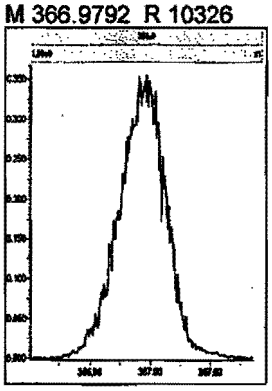
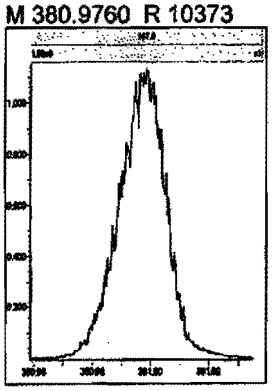
M 354.9792 R 10371



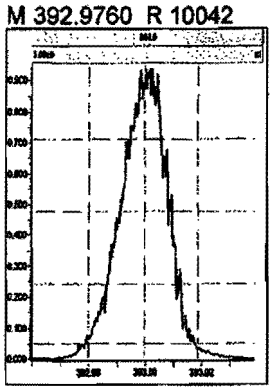
M 366.9792 R 10326



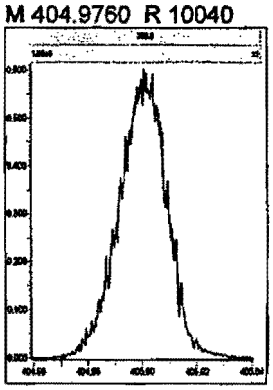
M 380.9760 R 10373



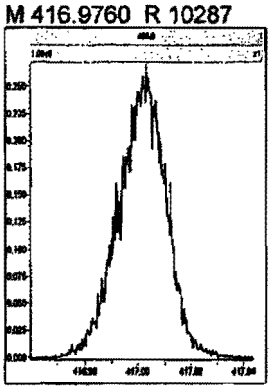
M 392.9760 R 10042



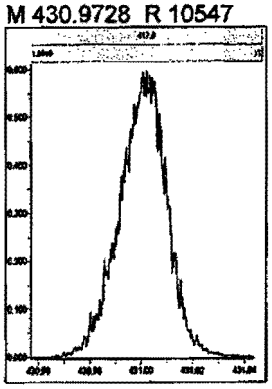
M 404.9760 R 10040



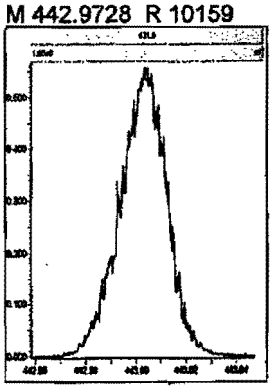
M 416.9760 R 10287



M 430.9728 R 10547



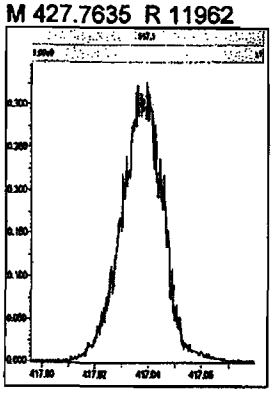
M 442.9728 R 10159



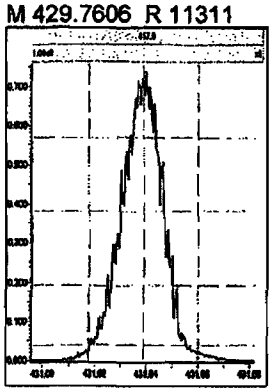
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, March 01, 2010 15:17:06 Pacific Standard Time

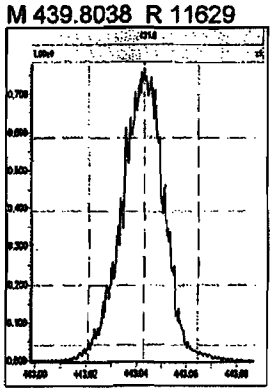
M 427.7635 R 11962



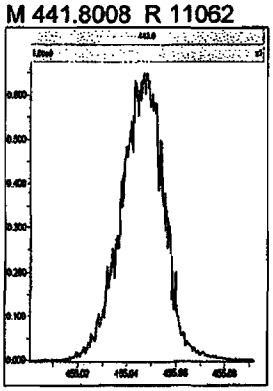
M 429.7606 R 11311



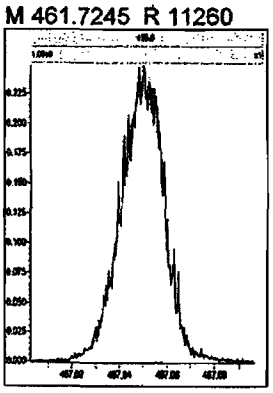
M 439.8038 R 11629



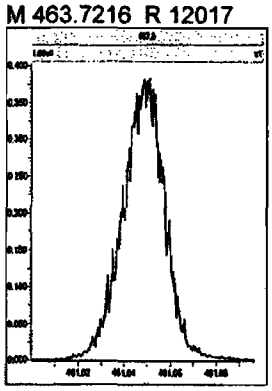
M 441.8008 R 11062



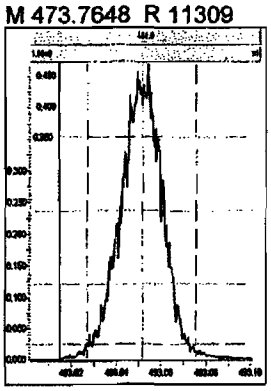
M 461.7245 R 11260



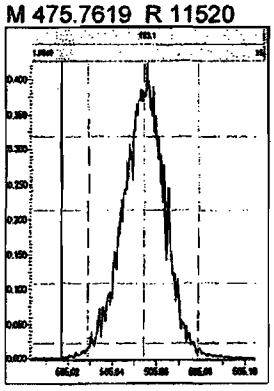
M 463.7216 R 12017



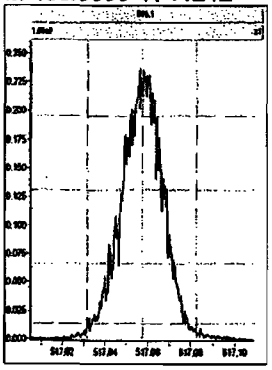
M 473.7648 R 11309



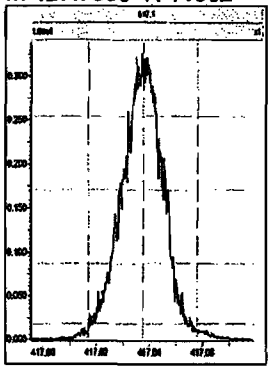
M 475.7619 R 11520



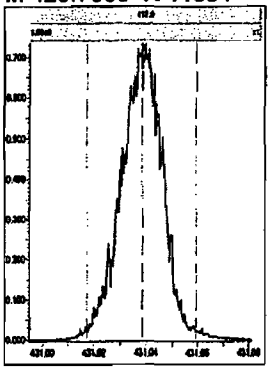
M 480.9696 R 11212



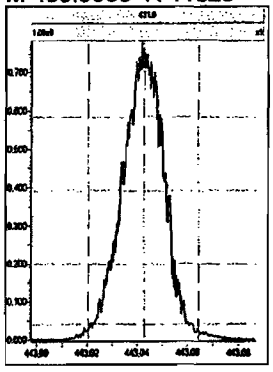
M 427.7635 R 11682



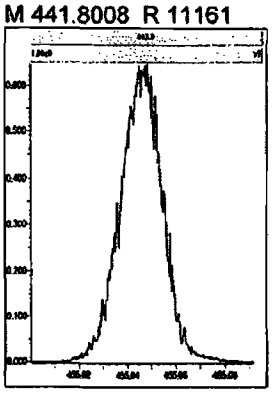
M 429.7606 R 11681



M 439.8038 R 11629



M 441.8008 R 11161



Dataset: C:\MassLynx\JAN2010.PRO\CA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
Printed: Monday, March 01, 2010 16:29:42 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 01 Mar 2010 16:27:52
Calibration: 01 Mar 2010 16:27:59

#	Name	RRF Mean	RRF SD	RRF %Rel SD
1	13C-1,2,3,4-TCDD	1.00000	0.00000	0.00000
2				
3	13C-2,3,7,8-TCDF	1.40173	0.06488	4.62848
4	2,3,7,8-TCDF	0.92135	0.05628	6.10850
5	Total TCDFs	0.92135	0.05628	6.10849
6				
7	13C-2,3,7,8-TCDD	0.94961	0.05927	6.24113
8	2,3,7,8-TCDD	1.03870	0.05087	4.89709
9	Total TCDDs	1.03870	0.05087	4.89709
10				
11	37CL-2,3,7,8-TCDD	1.14465	0.06138	5.36206
12				
13	13C-1,2,3,7,8-PeCDF	1.11677	0.10746	9.62233
14	1,2,3,7,8-PeCDF	0.98929	0.04661	4.71185
15	2,3,4,7,8-PeCDF	0.94936	0.04998	5.26421
16	Total F2 PeCDFs	0.96932	0.04812	4.96464
17	Total F1 PeCDFs	0.96932	0.04812	4.96464
18				
19	13C-1,2,3,7,8-PeCDD	0.77603	0.07472	9.62895
20	1,2,3,7,8-PeCDD	0.96958	0.03870	3.99107
21	Total PeCDDs	0.96958	0.03870	3.99107
22				
23	13C-1,2,3,7,8,9-HxCDD	1.00000	0.00000	0.00000
24				
25	13C-1,2,3,4,7,8-HxCDF	0.97183	0.07570	7.78896
26	1,2,3,4,7,8-HxCDF	1.20038	0.06355	5.29397
27	1,2,3,6,7,8-HxCDF	1.34082	0.07485	5.58214
28	2,3,4,6,7,8-HxCDF	1.25668	0.04314	3.43324
29	1,2,3,7,8,9-HxCDF	1.07528	0.10741	9.98906
30	Total HxCDFs	1.21829	0.06579	5.40021
31				
32	13C-1,2,3,6,7,8-HxCDD	0.89936	0.06718	7.47010
33	1,2,3,4,7,8-HxCDD	0.90180	0.06757	7.49316
34	1,2,3,6,7,8-HxCDD	1.09904	0.05428	4.93847
35	1,2,3,7,8,9-HxCDD	1.06390	0.12967	12.20746
36	Total HxCDDs	1.02158	0.07967	7.79841
37				
38	13C-1,2,3,4,6,7,8-HpCDF	0.84273	0.04470	5.30365
39	1,2,3,4,6,7,8-HpCDF	1.30670	0.07887	6.03564
40	1,2,3,4,7,8,9-HpCDF	1.06434	0.10376	9.74841
41	Total HpCDFs	1.18552	0.09003	7.59427
42				
43	13C-1,2,3,4,6,7,8-HpCDD	0.79749	0.03990	5.00319
44	1,2,3,4,6,7,8-HpCDD	0.99684	0.05299	5.31535
45	Total HpCDDs	0.99684	0.05299	5.31535
46				
47	13C-OCDD	0.59869	0.03502	5.84934

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
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#	Name	RRF Mean	RRF SD	RRF %Rel SD
48	OCDF	1.26224	0.11865	9.39998
49	OCDD	1.11522	0.06009	5.38825
50				
51				
52	Function 1 PFK	11489.54900	8071.33682	70.24938
53	Function 2 PFK	9733.63550	5820.31117	59.79586
54	Function 3 PFK	5225.13050	1100.08208	21.05368
55	Function 4 PFK	4454.80333	6288.24877	141.15660
56	Function 5 PFK	3910.74167	1894.19759	48.43576
57	TCDF PCDPE	45.93425	43.03779	93.69433
58	F1 PeCDF PCDPE	76.17900	79.72604	104.65619
59	F2 PeCDF PCDPE	92.30900	72.65489	78.70835
60	HXCDF PCDPE	77.61100	82.57176	106.39182
61	HPCDF PCDPE	88.95350	82.45643	92.69610
62	OCDF PCDPE	102.26850	73.15913	71.53632

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
Printed: Monday, March 01, 2010 16:30:00 Pacific Standard Time

Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 01 Mar 2010 16:27:52
Calibration: 01 Mar 2010 16:27:59

Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

#	Name	Trace	RT	Response	RRF	Mod Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.13	2364985	1.00000		0.778	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.55	3351317	1.41706		0.781	NO
4	2,3,7,8-TCDF	303.9016	18.57	318250	0.94963		0.754	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.34	2356086	0.99624		0.760	NO
8	2,3,7,8-TCDD	319.8965	19.35	246730	1.04720		0.784	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.35	273383	1.15596			
12								
13	13C-1,2,3,7,8-PeCDF	351.9000	24.15	2756814	1.16568		1.600	NO
14	1,2,3,7,8-PeCDF	339.8597	24.18	1416444	1.02759		1.571	NO
15	2,3,4,7,8-PeCDF	339.8597	25.66	1373135	0.99618		1.560	NO
16	Total F2 PeCDFs	339.8597						
17	Total F1 PeCDFs	339.8597						
18								
19	13C-1,2,3,7,8-PeCDD	367.8949	26.44	1985364	0.83948		1.628	NO
20	1,2,3,7,8-PeCDD	355.8546	26.47	980879	0.98811		1.565	NO
21	Total PeCDDs	355.8546						
22								
23	13C-1,2,3,7,8,9-HxCDD	401.8559	32.97	1789550	1.00000		1.291	NO
24								
25	13C-1,2,3,4,7,8-HxCDF	383.8639	31.74	1915628	1.07045		0.511	NO
26	1,2,3,4,7,8-HxCDF	373.8208	31.76	1201649	1.25457		1.235	NO
27	1,2,3,6,7,8-HxCDF	373.8208	31.87	1350244	1.40971		1.254	NO
28	2,3,4,6,7,8-HxCDF	373.8208	32.48	1221201	1.27499		1.213	NO
29	1,2,3,7,8,9-HxCDF	373.8208	33.14	985535	1.02894		1.214	NO
30	Total HxCDFs	373.8208						
31								
32	13C-1,2,3,6,7,8-HxCDD	401.8559	32.69	1723496	0.96309		1.287	NO
33	1,2,3,4,7,8-HxCDD	389.8157	32.62	835884	0.96999		1.244	NO
34	1,2,3,6,7,8-HxCDD	389.8157	32.70	962832	1.11730		1.295	NO
35	1,2,3,7,8,9-HxCDD	389.8157	32.98	907155	1.05269		1.233	NO
36	Total HxCDDs	389.8157						
37								
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.50	1563993	0.87396		0.458	NO
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.51	1080224	1.38137		1.000	NO
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.65	872663	1.11594		1.083	NO
41	Total HpCDFs	407.7818						
42								
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.32	1495048	0.83543		1.022	NO
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.34	788946	1.05541		1.094	NO
45	Total HpCDDs	423.7766						
46								

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

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Name: 01MR103D5_01, Date: 01-Mar-2010, Time: 09:59:22, ID: ST0301, Description: CS-3 10DXN049

#	Name	Trace	RT	Response	RRF	Mod Date	Ratio	Ratio Flag
47	13C-OCDD	469.7779	37.85	2244512	0.62712		0.906	NO
48	OCDF	441.7428	37.97	1492462	1.32988		0.935	NO
49	OCDD	457.7377	37.86	1332444	1.18729		0.868	NO
50								
51								
52	Function 1 PFK	330.97...	18.18	5782	5782.2...			
53	Function 2 PFK	342.97...						
54	Function 3 PFK	380.97...	32.33	4447	4447.2...			
55	Function 4 PFK	430.97...	34.61	11703	11703....			
56	Function 5 PFK	442.97...						
57	TCDF PCDPE	375.8364	21.06	68	67.932...			
58	F1 PeCDF PCDPE	409.79...						
59	F2 PeCDF PCDPE	409.7974						
60	HXCDF PCDPE	445.7555	33.68	213	212.84...			
61	HPCDF PCDPE	479.7165						
62	OCDF PCDPE	513.67...	39.70	191	191.00...			

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
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Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

#	Name	Trace	RT	Response	RRF	Mod Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.11	2292797	1.00000		0.772	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.54	3063515	1.33615		0.782	NO
4	2,3,7,8-TCDF	303.9016	18.57	52610	0.85865		0.764	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.32	2040709	0.89005		0.773	NO
8	2,3,7,8-TCDD	319.8965	19.34	39759	0.97414		0.778	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.34	49607	1.08181			
12								
13	13C-1,2,3,7,8-PeCDF	351.9000	24.13	2352868	1.02620		1.553	NO
14	1,2,3,7,8-PeCDF	339.8597	24.15	222551	0.94587		1.612	NO
15	2,3,4,7,8-PeCDF	339.8597	25.63	212716	0.90407		1.541	NO
16	Total F2 PeCDFs	339.8597						
17	Total F1 PeCDFs	339.8597						
18								
19	13C-1,2,3,7,8-PeCDD	367.8949	26.41	1617570	0.70550		1.572	NO
20	1,2,3,7,8-PeCDD	355.8546	26.45	151414	0.93606		1.581	NO
21	Total PeCDDs	355.8546						
22								
23	13C-1,2,3,7,8,9-HxCDD	401.8559	32.96	1758480	1.00000		1.336	NO
24								
25	13C-1,2,3,4,7,8-HxCDF	383.8639	31.74	1731496	0.98465		0.526	NO
26	1,2,3,4,7,8-HxCDF	373.8208	31.75	198399	1.14582		1.261	NO
27	1,2,3,6,7,8-HxCDF	373.8208	31.87	225242	1.30085		1.285	NO
28	2,3,4,6,7,8-HxCDF	373.8208	32.46	214018	1.23603		1.218	NO
29	1,2,3,7,8,9-HxCDF	373.8208	33.14	169419	0.97845		1.191	NO
30	Total HxCDFs	373.8208						
31								
32	13C-1,2,3,6,7,8-HxCDD	401.8559	32.69	1651226	0.93901		1.259	NO
33	1,2,3,4,7,8-HxCDD	389.8157	32.61	134250	0.81303		1.227	NO
34	1,2,3,6,7,8-HxCDD	389.8157	32.70	172807	1.04654		1.238	NO
35	1,2,3,7,8,9-HxCDD	389.8157	32.97	154900	0.93809		1.310	NO
36	Total HxCDDs	389.8157						
37								
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.50	1461269	0.83098		0.431	NO
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.51	179587	1.22898		1.031	NO
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.65	141801	0.97040		1.084	NO
41	Total HpCDFs	407.7818						
42								
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.32	1361669	0.77434		1.063	NO
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.34	129875	0.95380		1.048	NO
45	Total HpCDDs	423.7766						
46								
47	13C-OCDD	469.7779	37.84	1954952	0.55586		0.929	NO
48	OCDF	441.7428	37.96	219835	1.12450		0.918	NO
49	OCDD	457.7377	37.85	204075	1.04389		0.934	NO

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
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Name: 01MR103D5_02, Date: 01-Mar-2010, Time: 10:45:15, ID: ST0301A, Description: CS-2 09DXN423

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
50								
51								
52	Function 1 PFK	330.97...						
53	Function 2 PFK	342.97...						
54	Function 3 PFK	380.97...						
55	Function 4 PFK	430.97...						
56	Function 5 PFK	442.97...	38.42	4443	4443.0...			
57	TCDF PCDPE	375.8364	21.08	19	19.410...			
58	F1 PeCDF PCDPE	409.79...	18.73	106	105.74...			
59	F2 PeCDF PCDPE	409.7974	23.21	10	9.77000			
60	HXCDF PCDPE	445.7555	33.71	14	13.724...			
61	HPCDF PCDPE	479.7165	34.52	31	30.648...			
62	OCDF PCDPE	513.67...	39.60	120	119.62...			

Dataset: C:\MassLynx\JAN2010.PRO\CA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
Printed: Monday, March 01, 2010 16:30:00 Pacific Standard Time

Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.13	2361798	1.00000		0.791	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.55	3214735	1.36114		0.774	NO
4	2,3,7,8-TCDF	303.9016	18.57	13854	0.86192		0.753	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.32	2176691	0.92162		0.797	NO
8	2,3,7,8-TCDD	319.8965	19.35	10877	0.99942		0.861	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.35	13161	1.11448			
12								
13	13C-1,2,3,7,8-PeCDF	351.9000	24.13	2469946	1.04579		1.592	NO
14	1,2,3,7,8-PeCDF	339.8597	24.16	57704	0.93449		1.504	NO
15	2,3,4,7,8-PeCDF	339.8597	25.63	55273	0.89513		1.573	NO
16	Total F2 PeCDFs	339.8597						
17	Total F1 PeCDFs	339.8597						
18								
19	13C-1,2,3,7,8-PeCDD	367.8949	26.43	1698414	0.71912		1.590	NO
20	1,2,3,7,8-PeCDD	355.8546	26.45	39093	0.92069		1.588	NO
21	Total PeCDDs	355.8546						
22								
23	13C-1,2,3,7,8,9-HxCDD	401.8559	32.96	1935821	1.00000		1.398	NO
24								
25	13C-1,2,3,4,7,8-HxCDF	383.8639	31.74	1843697	0.95241		0.516	NO
26	1,2,3,4,7,8-HxCDF	373.8208	31.75	51877	1.12549		1.262	NO
27	1,2,3,6,7,8-HxCDF	373.8208	31.87	57372	1.24472		1.222	NO
28	2,3,4,6,7,8-HxCDF	373.8208	32.46	54891	1.19088		1.261	NO
29	1,2,3,7,8,9-HxCDF	373.8208	33.14	46482	1.00845		1.303	NO
30	Total HxCDFs	373.8208						
31								
32	13C-1,2,3,6,7,8-HxCDD	401.8559	32.69	1678133	0.86688		1.326	NO
33	1,2,3,4,7,8-HxCDD	389.8157	32.61	36804	0.87727		1.388	NO
34	1,2,3,6,7,8-HxCDD	389.8157	32.70	43895	1.04629		1.191	NO
35	1,2,3,7,8,9-HxCDD	389.8157	32.97	40797	0.97244		1.271	NO
36	Total HxCDDs	389.8157						
37								
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.50	1666531	0.86089		0.451	NO
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.51	51065	1.22566		1.021	NO
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.65	39159	0.93989		1.064	NO
41	Total HpCDFs	407.7818						
42								
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.32	1551532	0.80149		1.092	NO
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.34	36178	0.93269		1.045	NO
45	Total HpCDDs	423.7766						
46								
47	13C-OCDD	469.7779	37.85	2284858	0.59015		0.911	NO
48	OCDF	441.7428	37.97	65228	1.14191		0.957	NO
49	OCDD	457.7377	37.86	60757	1.06365		0.864	NO

Dataset: C:\MassLynx\JAN2010.PRO\CA030120103D58290.qld

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Name: 01MR103D5_03, Date: 01-Mar-2010, Time: 11:32:07, ID: ST0301B, Description: CS-1 09DXN422

#	Name	Trace	RT	Response	RRF	Mod Date	Ratio	Ratio Flag
50								
51								
52	Function 1 PFK	330.97...						
53	Function 2 PFK	342.97...	25.57	13849	13849....			
54	Function 3 PFK	380.97...						
55	Function 4 PFK	430.97...	34.62	462	462.31...			
56	Function 5 PFK	442.97...	38.46	5482	5481.8...			
57	TCDF PCDPE	375.8364						
58	F1 PeCDF PCDPE	409.79...	18.89	20	20.053...			
59	F2 PeCDF PCDPE	409.7974	23.22	66	66.022...			
60	HXCDF PCDPE	445.7555	33.66	49	48.588...			
61	HPCDF PCDPE	479.7165						
62	OCDF PCDPE	513.67...	39.58	16	15.649...			

Dataset: C:\MassLynx\JAN2010.PRO\CA030120103D58290.qld

Last Altered: Monday, March 01, 2010 16:27:59 Pacific Standard Time
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Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

#	Name	Trace	RT	Response	RRF	Mod Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.11	2187117	1.00000		0.779	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.54	3290031	1.50428		0.801	NO
4	2,3,7,8-TCDF	303.9016	18.55	6377773	0.96926		0.765	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.32	2248331	1.02799		0.784	NO
8	2,3,7,8-TCDD	319.8965	19.34	4899839	1.08966		0.797	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.34	5439660	1.24357			
12								
13	13C-1,2,3,7,8-PeCDF	351.9000	24.13	2806319	1.28311		1.594	NO
14	1,2,3,7,8-PeCDF	339.8597	24.15	28141493	1.00279		1.551	NO
15	2,3,4,7,8-PeCDF	339.8597	25.62	26633745	0.94906		1.548	NO
16	Total F2 PeCDFs	339.8597						
17	Total F1 PeCDFs	339.8597						
18								
19	13C-1,2,3,7,8-PeCDD	367.8949	26.40	1905969	0.87145		1.639	NO
20	1,2,3,7,8-PeCDD	355.8546	26.44	18958636	0.99470		1.579	NO
21	Total PeCDDs	355.8546						
22								
23	13C-1,2,3,7,8,9-HxCDD	401.8559	32.96	2083670	1.00000		1.284	NO
24								
25	13C-1,2,3,4,7,8-HxCDF	383.8639	31.74	2044436	0.99068		0.519	NO
26	1,2,3,4,7,8-HxCDF	373.8208	31.75	24696987	1.20801		1.240	NO
27	1,2,3,6,7,8-HxCDF	373.8208	31.87	27121636	1.32661		1.260	NO
28	2,3,4,6,7,8-HxCDF	373.8208	32.46	26303985	1.28661		1.297	NO
29	1,2,3,7,8,9-HxCDF	373.8208	33.14	22828081	1.11660		1.278	NO
30	Total HxCDFs	373.8208						
31								
32	13C-1,2,3,6,7,8-HxCDD	401.8559	32.69	1920145	0.93045		1.333	NO
33	1,2,3,4,7,8-HxCDD	389.8157	32.61	16877625	0.87898		1.231	NO
34	1,2,3,6,7,8-HxCDD	389.8157	32.70	21311956	1.10991		1.257	NO
35	1,2,3,7,8,9-HxCDD	389.8157	32.97	20848679	1.08579		1.287	NO
36	Total HxCDDs	389.8157						
37								
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.50	1811806	0.87795		0.433	NO
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.51	23716064	1.30897		1.047	NO
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.65	20197358	1.11476		1.026	NO
41	Total HpCDFs	407.7818						
42								
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.32	1720913	0.83391		1.021	NO
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.34	17263231	1.00314		1.051	NO
45	Total HpCDDs	423.7766						
46								
47	13C-OCDD	469.7779	37.85	2646442	0.64120		0.891	NO
48	OCDF	441.7428	37.97	35690858	1.34864		0.912	NO
49	OCDD	457.7377	37.86	29914861	1.13038		0.881	NO

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Name: 01MR103D5_04, Date: 01-Mar-2010, Time: 12:13:11, ID: ST0301C, Description: CS-5 09DXN456

#	Name	Trace	RT	Response	RRF	Mod Date	Ratio	Ratio Flag
50								
51								
52	Function 1 PFK	330.97...	18.10	17197	17196....			
53	Function 2 PFK	342.97...	25.47	5618	5618.0...			
54	Function 3 PFK	380.97...						
55	Function 4 PFK	430.97...						
56	Function 5 PFK	442.97...						
57	TCDF PCDPE	375.8364	21.14	2	1.51200			
58	F1 PeCDF PCDPE	409.79...	18.86	4	3.75300			
59	F2 PeCDF PCDPE	409.7974	23.28	112	112.00...			
60	HXCDF PCDPE	445.7555	33.79	17	16.665...			
61	HPCDF PCDPE	479.7165						
62	OCDF PCDPE	513.67...						

Dataset: C:\MassLynx\JAN2010.PRO\CA030120103D58290.qld

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Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
1	13C-1,2,3,4-TCDD	331.9368	19.13	2432299	1.00000		0.795	NO
2								
3	13C-2,3,7,8-TCDF	315.9419	18.55	3380927	1.39001		0.803	NO
4	2,3,7,8-TCDF	303.9016	18.57	1308159	0.96731		0.765	NO
5	Total TCDFs	303.9016						
6								
7	13C-2,3,7,8-TCDD	331.9368	19.34	2218645	0.91216		0.762	NO
8	2,3,7,8-TCDD	319.8965	19.35	961187	1.08308		0.779	NO
9	Total TCDDs	319.8965						
10								
11	37CL-2,3,7,8-TCDD	327.8847	19.35	1096896	1.12743			
12								
13	13C-1,2,3,7,8-PeCDF	351.9000	24.13	2585644	1.06305		1.594	NO
14	1,2,3,7,8-PeCDF	339.8597	24.16	5355896	1.03570		1.564	NO
15	2,3,4,7,8-PeCDF	339.8597	25.63	5183395	1.00234		1.543	NO
16	Total F2 PeCDFs	339.8597						
17	Total F1 PeCDFs	339.8597						
18								
19	13C-1,2,3,7,8-PeCDD	367.8949	26.43	1811035	0.74458		1.575	NO
20	1,2,3,7,8-PeCDD	355.8546	26.45	3652230	1.00833		1.586	NO
21	Total PeCDDs	355.8546						
22								
23	13C-1,2,3,7,8,9-HxCDD	401.8559	32.97	2158757	1.00000		1.276	NO
24								
25	13C-1,2,3,4,7,8-HxCDF	383.8639	31.74	1858567	0.86094		0.516	NO
26	1,2,3,4,7,8-HxCDF	373.8208	31.76	4713343	1.26800		1.290	NO
27	1,2,3,6,7,8-HxCDF	373.8208	31.87	5286599	1.42222		1.224	NO
28	2,3,4,6,7,8-HxCDF	373.8208	32.48	4813242	1.29488		1.255	NO
29	1,2,3,7,8,9-HxCDF	373.8208	33.15	4623959	1.24396		1.262	NO
30	Total HxCDFs	373.8208						
31								
32	13C-1,2,3,6,7,8-HxCDD	401.8559	32.69	1721352	0.79738		1.272	NO
33	1,2,3,4,7,8-HxCDD	389.8157	32.62	3338449	0.96972		1.267	NO
34	1,2,3,6,7,8-HxCDD	389.8157	32.70	4045688	1.17515		1.315	NO
35	1,2,3,7,8,9-HxCDD	389.8157	32.98	4373853	1.27047		1.395	NO
36	Total HxCDDs	389.8157						
37								
38	13C-1,2,3,4,6,7,8-HpCDF	417.8253	34.51	1661984	0.76988		0.441	NO
39	1,2,3,4,6,7,8-HpCDF	407.7818	34.52	4615340	1.38850		1.022	NO
40	1,2,3,4,7,8,9-HpCDF	407.7818	35.65	3924647	1.18071		1.049	NO
41	Total HpCDFs	407.7818						
42								
43	13C-1,2,3,4,6,7,8-HpCDD	435.8169	35.32	1602360	0.74226		1.078	NO
44	1,2,3,4,6,7,8-HpCDD	423.7766	35.34	3330255	1.03917		1.011	NO
45	Total HpCDDs	423.7766						
46								
47	13C-OCDD	469.7779	37.85	2500302	0.57911		0.889	NO
48	OCDF	441.7428	37.97	6832197	1.36627		0.901	NO
49	OCDD	457.7377	37.86	5755066	1.15087		0.896	NO

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Name: 01MR103D5_05, Date: 01-Mar-2010, Time: 12:55:26, ID: ST0301D, Description: CS-4 09DXN426

#	Name	Trace	RT	Response	RRF	Mod.Date	Ratio	Ratio Flag
50								
51								
52	Function 1 PFK	330.97...						
53	Function 2 PFK	342.97...						
54	Function 3 PFK	380.97...	32.30	6003	6003.0...			
55	Function 4 PFK	430.97...	34.60	1199	1198.7...			
56	Function 5 PFK	442.97...	38.53	1807	1807.3...			
57	TCDF PCDPE	375.8364	21.12	95	94.883...			
58	F1 PeCDF PCDPE	409.79...	18.83	175	175.17...			
59	F2 PeCDF PCDPE	409.7974	23.23	181	181.44...			
60	HXCDF PCDPE	445.7555	33.73	96	96.237...			
61	HPCDF PCDPE	479.7165	34.51	147	147.25...			
62	OCDF PCDPE	513.67...	39.62	83	82.800...			

Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

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Method: C:\MassLynx\JAN2010.PRO\MethDB\16133D5.mdb 01 Mar 2010 14:17:18
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D51613.cdb 01 Mar 2010 14:19:06

Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449, Task:

#	Name	Trace	Sample Size	RT	Prd RT	RRF	M	Abs Resp	Conc.	EMPC	%Rec	EDL	Ratio	Prd Ratio	Ratio	Mod Date
1	13C-1,2,3,4-TCDD	331.9368	1.000	19.11	19.11	1.000		2328000.63	2000.0000	2000.0000	100.0	1.0650	0.781	0.770	NO	
2																
3	13C-2,3,7,8-TCDF	315.9419	1.000	18.54	18.55	1.402		3438076.38	2107.1676	2107.1676	105.4	0.9986	0.788	0.770	NO	
4	2,3,7,8-TCDF	303.9016	1.000	18.55	18.55	0.921		307551.42	194.1808	194.1808		0.2974	0.775	0.770	NO	
5	Total TCDFs	303.9016	1.000		21.44	0.921			194.1808	194.1808		0.2974				
6																
7	13C-2,3,7,8-TCDD	331.9368	1.000	19.31	19.32	0.950		2352179.56	2127.9969	2127.9969	106.4	1.1215	0.788	0.770	NO	
8	2,3,7,8-TCDD	319.8965	1.000	19.34	19.34	1.039		234382.01	191.8637	191.8637		0.2985	0.787	0.770	NO	
9	Total TCDDs	319.8965	1.000		22.69	1.039			191.8637	191.8637		0.2985				
10																
11	37CL-2,3,7,8-TCDD	327.8847	1.000	19.34	19.34	1.145		281662.94	211.3996	0.0000	105.7	0.3072				
12																
13	13C-1,2,3,7,8-PeCDF	351.9000	1.000	24.12	24.11	1.117		2758911.88	2122.3777	2122.3777	106.1	1.9251	1.596	1.550	NO	
14	1,2,3,7,8-PeCDF	339.8597	1.000	24.14	24.15	0.989		660488.20	483.9873	483.9873		0.7000	1.598	1.550	NO	
15	13C-2,3,4,7,8-PeCDF	351.9000	1.000	25.59	25.59	1.096		2675006.94	2096.7224	2096.7224	104.8	1.9615	1.574	1.550	NO	
16	2,3,4,7,8-PeCDF	339.8597	1.000	25.62	25.61	0.967		625559.41	483.8216	483.8216		0.8139	1.558	1.550	NO	
17	Total F2 PeCDFs	339.8597	1.000		34.47	0.978			967.8088	967.8088		0.7555				
18	Total F1 PeCDFs	339.8597	1.000		36.56	0.978						0.2481				
19																
20	13C-1,2,3,7,8-PeCDD	367.8949	1.000	26.40	26.41	0.776		1908829.38	2113.1846	2113.1846	105.7	1.7923	1.586	1.550	NO	
21	1,2,3,7,8-PeCDD	355.8546	1.000	26.43	26.43	0.970		443952.92	479.7532	479.7532		0.9221	1.614	1.550	NO	
22	Total PeCDDs	355.8546	1.000		31.10	0.970			479.7532	479.7532		0.9221				
23																
24	13C-1,2,3,7,8,9-HxCDD	401.8559	1.000	32.96	32.97	1.000		1907622.13	2000.0000	2000.0000	100.0	2.0159	1.266	1.240	NO	
25																
26	13C-1,2,3,4,7,8-HxCDF	383.8639	1.000	31.72	31.72	0.972		2020911.81	2180.1959	2180.1959	109.0	2.5781	0.514	0.510	NO	
27	1,2,3,4,7,8-HxCDF	373.8208	1.000	31.74	31.75	1.200		567096.09	467.5418	467.5418		0.6446	1.240	1.240	NO	
28	13C-1,2,3,6,7,8-HxCDF	383.8639	1.000	31.85	31.85	1.213		2508816.69	2168.8920	2168.8920	108.4	2.0659	0.505	0.510	NO	
29	1,2,3,6,7,8-HxCDF	373.8208	1.000	31.86	31.86	1.074		650400.84	482.5727	482.5727		0.5970	1.252	1.240	NO	
30	13C-2,3,4,6,7,8-HxCDF	383.8639	1.000	32.44	32.45	1.079		2193240.19	2130.7183	2130.7183	106.5	2.3216	0.526	0.510	NO	
31	2,3,4,6,7,8-HxCDF	373.8208	1.000	32.46	32.45	1.132		580551.48	467.7309	467.7309		0.5890	1.266	1.240	NO	

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Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449, Task:

# Name	Trace	Sample Size	RT	Prd RT	RRF	M...	Abs Resp	Conc.	EMPC	%Rec	EDL	Ratio	Prd Ratio	Ratio	Mod Date
32 13C-1,2,3,7,8,9-HxCDF	383.8639	1.000	33.13	33.13	0.951		2040641.38	2248.6006	2248.6006	112.4	2.6333	0.509	0.510	NO	
33 1,2,3,7,8,9-HxCDF	373.8208	1.000	33.14	33.14	1.094		549163.14	492.1002	492.1002		0.6457	1.289	1.240	NO	
34 Total HxCDFs	373.8208	1.000		0.00	1.125			1909.9456	1909.9456		0.6162				
35															
36 13C-1,2,3,4,7,8-HxCDD	401.8559	1.000	32.60	32.60	0.817		1731629.50	2222.2451	2222.2451	111.1	2.4676	1.269	1.240	NO	
37 1,2,3,4,7,8-HxCDD	389.8157	1.000	32.61	32.61	0.993		441529.34	513.7151	513.7151		0.6316	1.228	1.240	NO	
38 13C-1,2,3,6,7,8-HxCDD	401.8559	1.000	32.67	32.67	0.899		1805002.38	2104.1686	2104.1686	105.2	2.2415	1.256	1.240	NO	
39 1,2,3,6,7,8-HxCDD	389.8157	1.000	32.69	32.69	1.099		477311.91	481.2178	481.2178		0.5917	1.264	1.240	NO	
40 1,2,3,7,8,9-HxCDD	389.8157	1.000	32.97	32.98	1.115		480184.11	487.0681	487.0681		0.5730	1.322	1.240	NO	
41 Total HxCDDs	389.8157	1.000		0.00	1.069			1482.0010	1482.0010		0.5977				
42															
43 13C-1,2,3,4,6,7,8-HpCDF	417.8253	1.000	34.50	34.50	0.843		1788999.69	2225.6543	2225.6543	111.3	4.1494	0.468	0.440	NO	
44 1,2,3,4,6,7,8-HpCDF	407.7818	1.000	34.51	34.51	1.307		564872.41	483.2762	483.2762		1.0736	1.030	1.040	NO	
45 13C-1,2,3,4,7,8,9-HpCDF	417.8253	1.000	35.64	35.64	0.693		1496568.69	2265.0236	2265.0236	113.3	5.0479	0.429	0.440	NO	
46 1,2,3,4,7,8,9-HpCDF	407.7818	1.000	35.65	35.64	1.293		471265.83	487.1612	487.1612		1.4429	1.019	1.040	NO	
47 Total HpCDFs	407.7818	1.000		0.00	1.300			970.4374	970.4374		1.2415				
48															
49 13C-1,2,3,4,6,7,8-HpCDD	435.8169	1.000	35.31	35.31	0.797		1736021.94	2282.2838	2282.2838	114.1	3.8774	0.999	1.040	NO	
50 1,2,3,4,6,7,8-HpCDD	423.7766	1.000	35.32	35.32	0.997		422869.31	488.7129	488.7129		0.9531	1.093	1.040	NO	
51 Total HpCDDs	423.7766	1.000		-0.01	0.997			488.7129	488.7129		0.9531				
52															
53 13C-OCDD	469.7779	1.000	37.84	37.84	0.599		2601861.13	4556.3970	4556.3970	113.9	5.6021	0.897	0.890	NO	
54 OCDF	441.7428	1.000	37.96	37.96	1.262		798526.19	972.5743	972.5743		1.0863	0.952	0.890	NO	
55 OCDD	457.7377	1.000	37.85	37.85	1.115		702641.38	968.6141	968.6141		1.0568	0.908	0.690	NO	
56															
57															
58 Function 1 PFK	330.97920	1.000		15.62	3769.5...						0.0000				
59 Function 3 PFK	380.97600	1.000	32.22	32.30	5225.1...		3664.44	0.7013		70.1	1.5459				
60 Function 2 PFK	342.97920	1.000		25.55	9733.6...						0.0000				
61 Function 4 PFK	430.97290	1.000		34.60	4454.8...						0.0000				
62 Function 5 PFK	442.97280	1.000	37.52	37.58	2072.8...		3094.57	1.4929		149.3	2.9301				
63 TCDF PCDPE	375.8364	1.000		21.12	45.934						0.0000				
64 F1 PeCDF PCDPE	409.79740	1.000	18.89	18.83	76.179		24.52	0.3219		32.2	0.4403				
65 F2 PeCDF PCDPE	409.7974	1.000	23.22	23.23	92.309		7.24	0.0785		7.8	0.2873				
66 HXCDF PCDPE	445.7555	1.000	33.79	33.73	77.611		108.69	1.4005		140.0	0.0779				

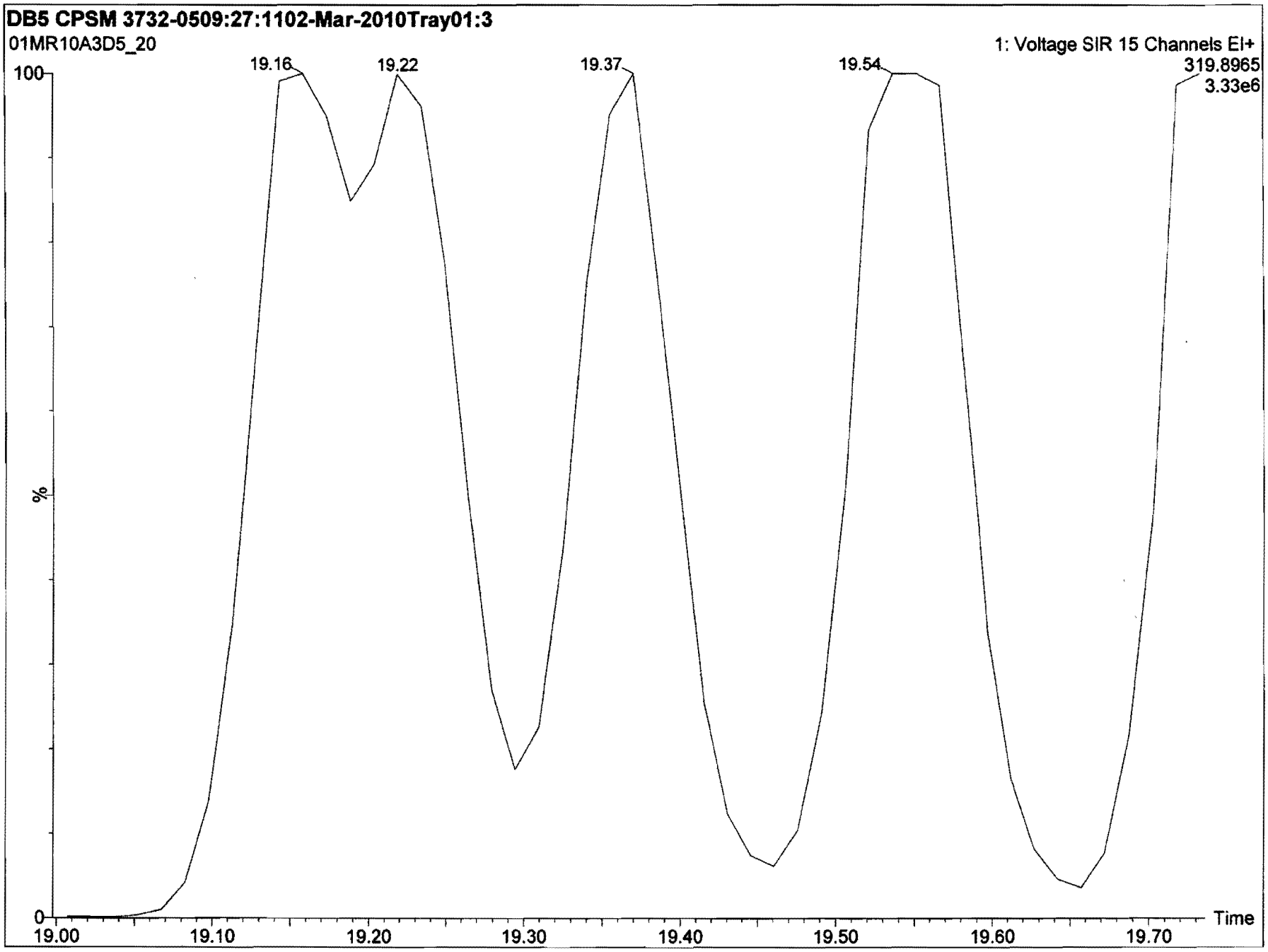
Dataset: C:\MassLynx\JAN2010.PRO\ICA030120103D52ndSource.qld

Last Altered: Monday, March 01, 2010 14:20:38 Pacific Standard Time
Printed: Monday, March 01, 2010 14:22:32 Pacific Standard Time

Name: 01MR103D5_06, Date: 01-Mar-2010, Time: 13:37:44, ID: ST0301E, Description: 2nd Source 09DXN449, Task:

# Name	Trace	Sample Size	RT	Prd.RT	RRF	M	Abs.Resp	Conc.	EMPC	%Rec	EDL	Ratio	Prd.Ratio	Ratio	Mod Date
67 HPCDF PCDPE	479.7165	1.000		34.51	88.954						0.0000				
68 OCDF PCDPE	513.67750	1.000	39.63	39.62	102.269		35.02	0.3425		34.2	0.0550				

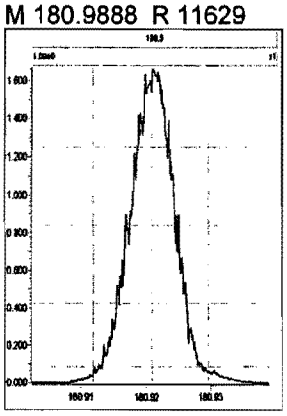
	File Name	File Text	Sample ID	Meth/Matrix	BOX #	Sample Size	Units
1	01MR10A3D5_01	CS-3 10DXN049	ST0301F	---	---	1.000000	---
2	01MR10A3D5_02	09DXN106,421,10DXN022,085	DOWQC	1613BQC		1.000000	---
3	01MR10A3D5_03	DB5 CPSM 3732-05	CP0301A	---	---	1.000000	---
4	01MR10A3D5_04	Solvent Blank C-14	SB0301	---	---	1.000000	---
5	01MR10A3D5_05	1613LOD-LOD1	2/26/10 LOD_1	1613B	27	1.000000	L
6	01MR10A3D5_06	1613LOD-LOD2	2/26/10 LOD_2	1613B	27	1.000000	L
7	01MR10A3D5_07	1613LOD-LOD3	2/26/10 LOD_3	1613B	27	1.000000	L
8	01MR10A3D5_08	G0B230486-1	LV060-1-AA	8290/Water	27	1.060870	L
9	01MR10A3D5_09	G0B230488-1	LV07E-1-AA	8290/Water	27	1.057910	L
10	01MR10A3D5_10	F0B130437-1 RI	LVNEX-1-AF	8290/Solid	22	10.025000	g
11	01MR10A3D5_11	F0B130437-1S RI	LVNEX-1-ANS	8290/Solid	22	10.075000	g
12	01MR10A3D5_12	F0B130437-1D RI	LVNEX-1-APD	8290/Solid	22	10.045000	g
13	01MR10A3D5_13	F0B130437-2 RI	LVNE3-1-AF	8290/Solid	22	10.055000	g
14	01MR10A3D5_14	Solvent Blank C-14	SB0301A	8290/1613B/S	23	10.000000	g
15	01MR10A3D5_15	Solvent Blank C-14	SB0301B	8290/1613B/S	23	10.000000	g
16	01MR10A3D5_16	G0B130471-1LCS	LVWL9-1-ACC	8290/1613B/S	23	1.030000	g
17	01MR10A3D5_17	Solvent Blank C-14	SB0301C	---	---	1.000000	---
18	01MR10A3D5_18	CS-3 10DXN049	ST0301G	---	---	1.000000	---
19	01MR10A3D5_19	CS-3 10DXN049	ST0301H	---	---	1.000000	---
20	01MR10A3D5_20	DB5 CPSM 3732-05	CP0301B	---	---	1.000000	---
21	01MR10A3D5_21	Solvent Blank C-14	SB0301D	---	---	1.000000	---
22	01MR10A3D5_22	G0B250507-1MB	LV4HR-1-AA	8290/Water	27	1.000000	L
23	01MR10A3D5_23	G0B250507-1LCS <12 hr	LV4HR-1-AA	8290/Water	27	1.000000	L
24	01MR10A3D5_24	G0B250507-1	LV3T7-1-AA	8290/Water	27	0.992900	L
25	01MR10A3D5_25	CS-3 10DXN049	ST0301I	---	---	1.000000	---
26	01MR10A3D5_26	DB5 CPSM 3732-05	CP0301B	---	---	1.000000	---
27	01MR10A3D5_27	Solvent Blank C-14	SB0301E	---	---	1.000000	---
28	01MR10A3D5_28	G0B130471-1MB	LVWL9-1-AAB	8290/1613B/S	23	10.000000	g
29	01MR10A3D5_29	G0B130471-1LCS	LVWL9-1-ACC	8290/1613B/S	23	10.000000	g
30	01MR10A3D5_30	G0B130471-1	LVNRL-1-AC	8290/1613B/S	23	1.030000	g
31	01MR10A3D5_31	G0B250457-1LCS	LV39J-1-AC	8290/Solid	27	10.000000	g
32	01MR10A3D5_32	G0B250457-1MB	LV39J-1-AA	8290/Solid	27	10.000000	g
33	01MR10A3D5_33	G0B250457-1	LV3JT-1-AC	8290/Solid	27	10.000000	g
34	01MR10A3D5_34	G0B250457-1MS	LV3JT-1-AD	8290/Solid	27	10.000000	g
35	01MR10A3D5_35	G0B250457-1SD	LV3JT-1-AE	8290/Solid	27	10.000000	g
36	01MR10A3D5_36	G0B230551-5 10X	LV1KT-1-AC	8290/Solid	25	10.440000	g
37	01MR10A3D5_37	Solvent Blank C-14	SB0301E	---	---	1.000000	---
38	01MR10A3D5_38	CS-3 10DXN049	ST0301I	---	---	1.000000	---


DB5 CPSM 3732-0509:27:1102-Mar-2010Tray01:3
01MR10A3D5_20
1: Voltage SIR 15 Channels EI+
319.8965
3.33e6
19.16
19.22
19.37
19.54
100
%
0
Time
19.00
19.10
19.20
19.30
19.40
19.50
19.60
19.70

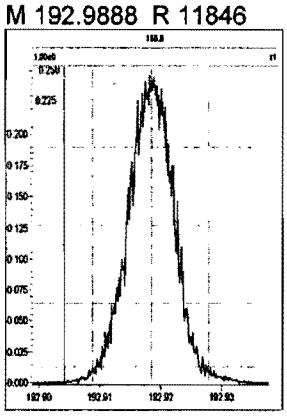
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, March 02, 2010 08:36:52 Pacific Standard Time

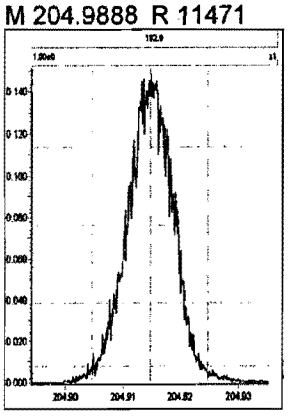
M 180.9888 R 11629



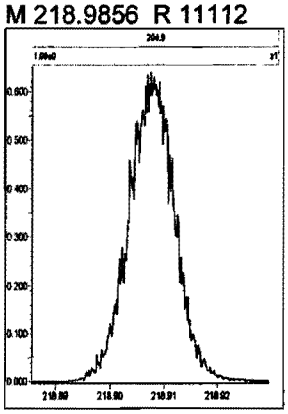
M 192.9888 R 11846



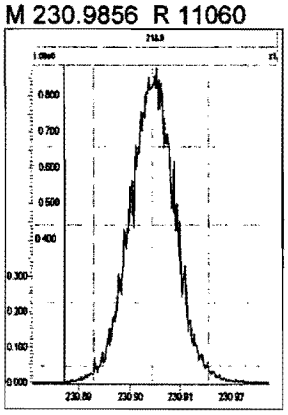
M 204.9888 R 11471



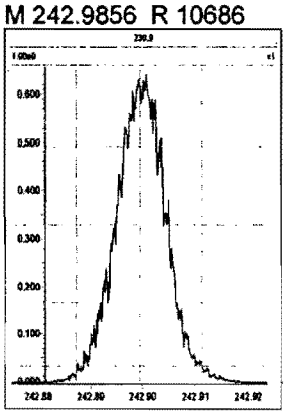
M 218.9856 R 11112



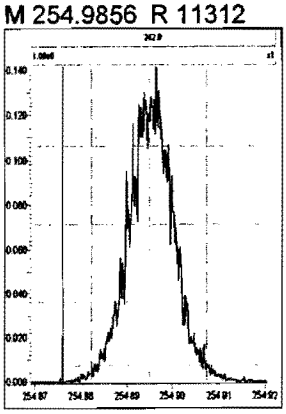
M 230.9856 R 11060



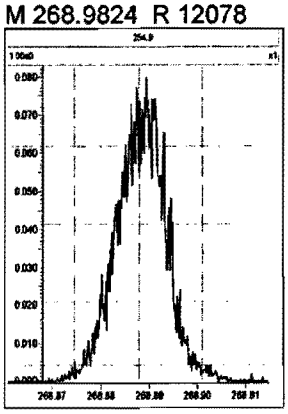
M 242.9856 R 10686



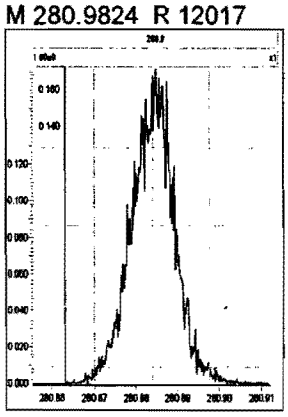
M 254.9856 R 11312



M 268.9824 R 12078



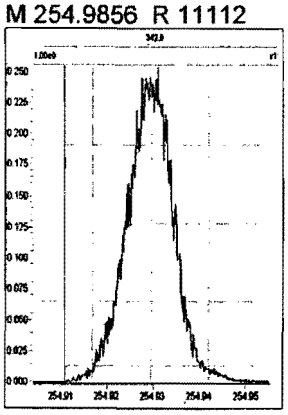
M 280.9824 R 12017



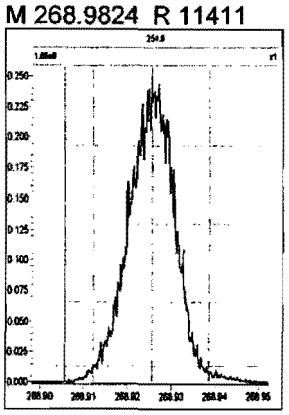
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, March 02, 2010 08:40:21 Pacific Standard Time

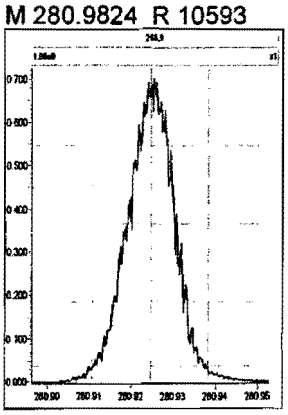
M 254.9856 R 11112



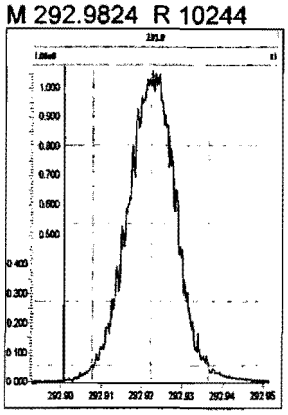
M 268.9824 R 11411



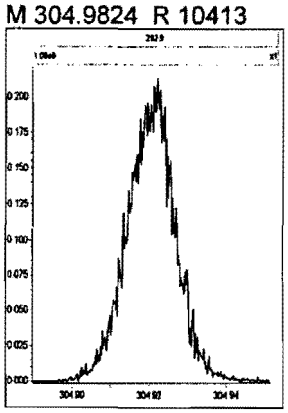
M 280.9824 R 10593



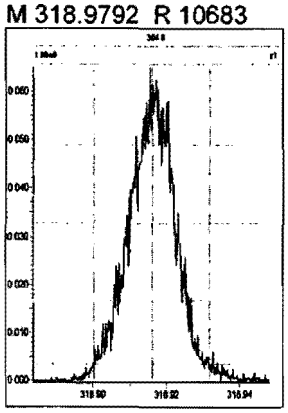
M 292.9824 R 10244



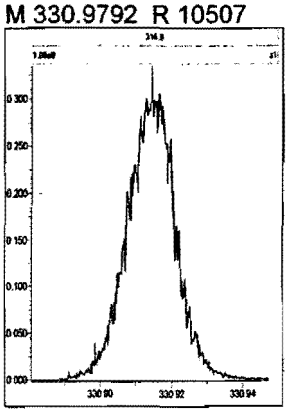
M 304.9824 R 10413



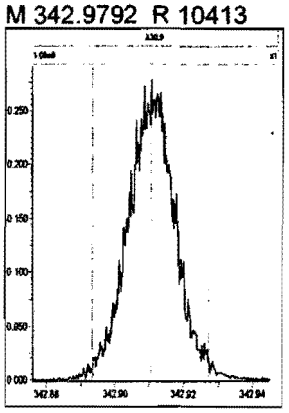
M 318.9792 R 10683



M 330.9792 R 10507



M 342.9792 R 10413

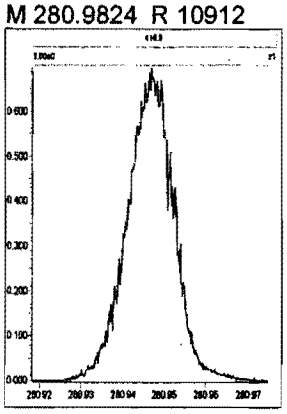


Experiment Calibration Report **MassLynx 4.1** Page 1 of 1

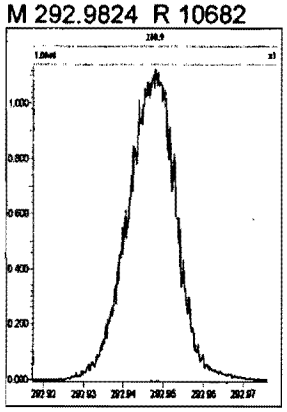
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, March 02, 2010 08:41:47 Pacific Standard Time

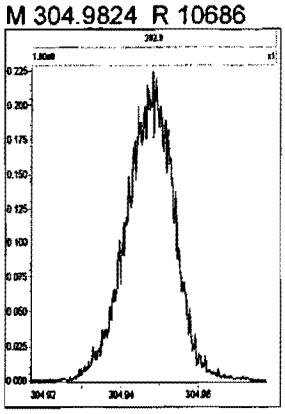
M 280.9824 R 10912



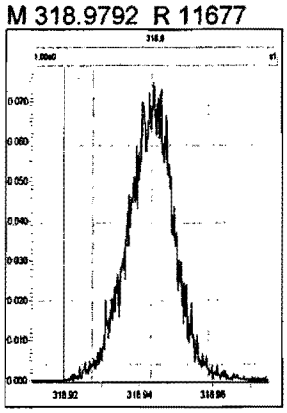
M 292.9824 R 10682



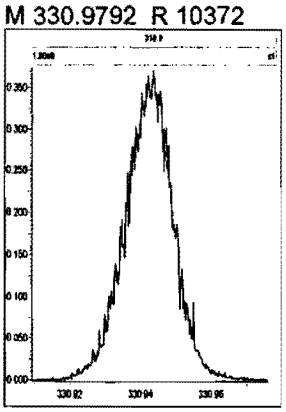
M 304.9824 R 10686



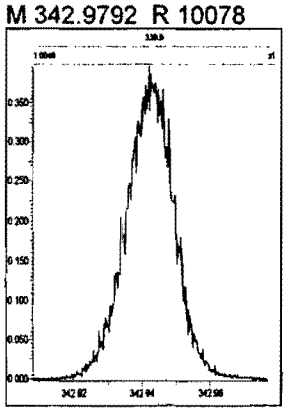
M 318.9792 R 11677



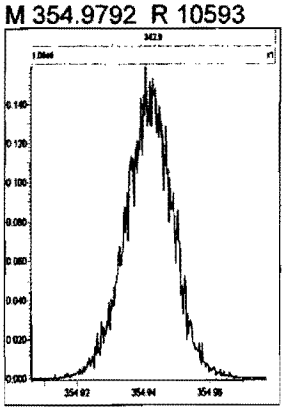
M 330.9792 R 10372



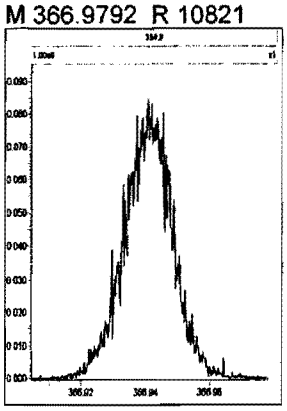
M 342.9792 R 10078



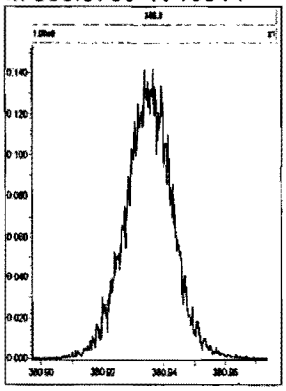
M 354.9792 R 10593



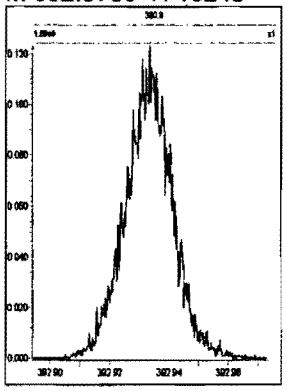
M 366.9792 R 10821



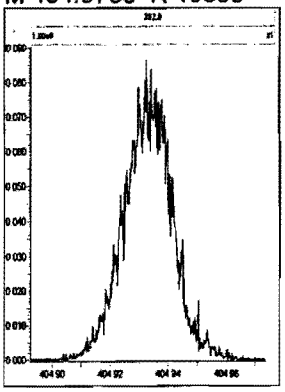
M 380.9760 R 10914



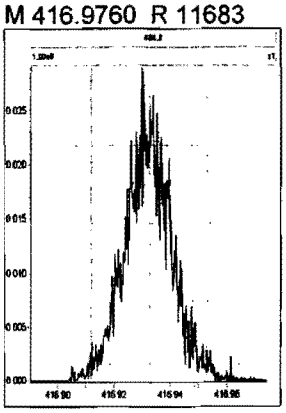
M 392.9760 R 10246



M 404.9760 R 10686



M 416.9760 R 11683



Experiment Calibration Report **MassLynx 4.1** Page 1 of 1

File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

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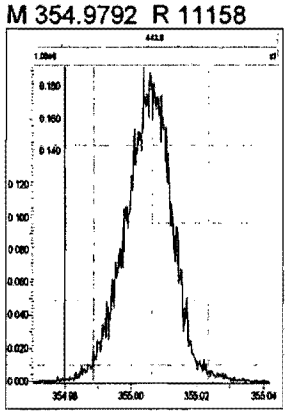
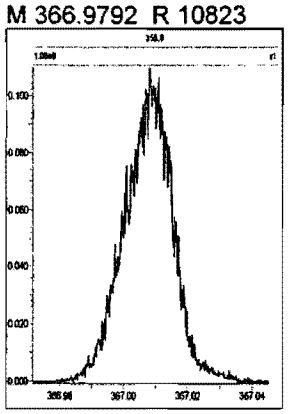
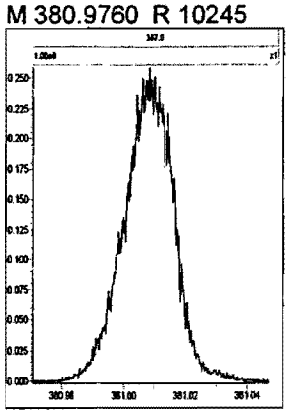
M 354.9792 R 11158



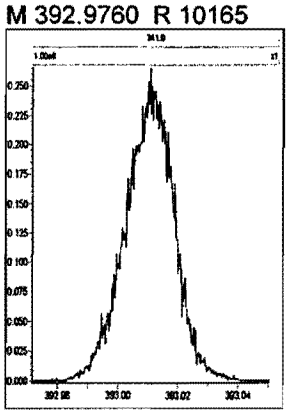
M 366.9792 R 10823



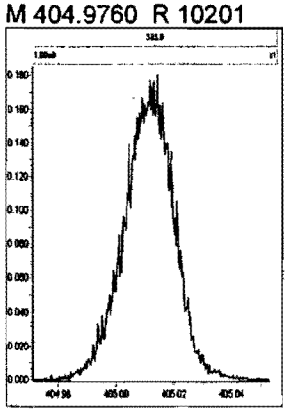
M 380.9760 R 10245



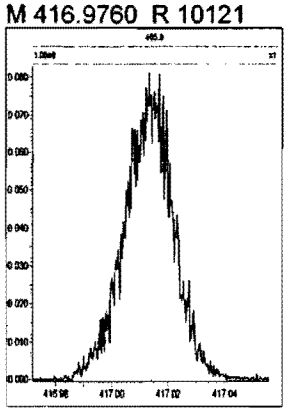
M 392.9760 R 10165



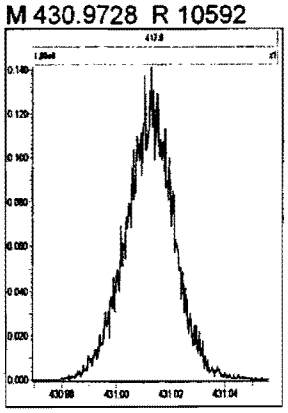
M 404.9760 R 10201



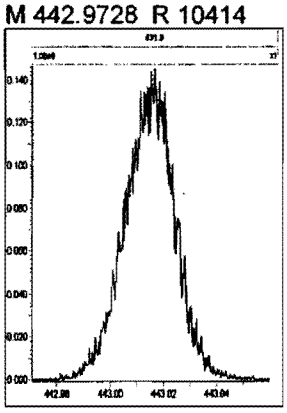
M 416.9760 R 10121



M 430.9728 R 10592



M 442.9728 R 10414



Experiment Calibration Report **MassLynx 4.1** Page 1 of 1

File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

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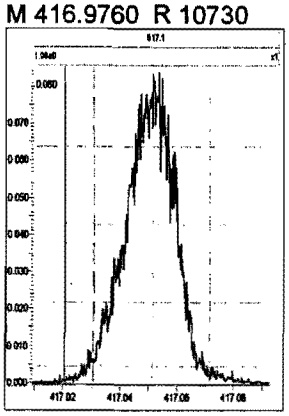
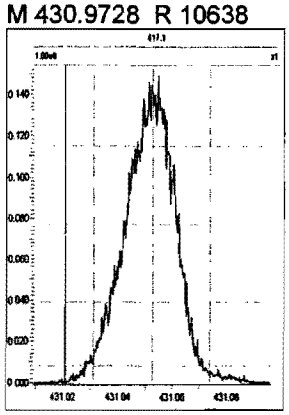
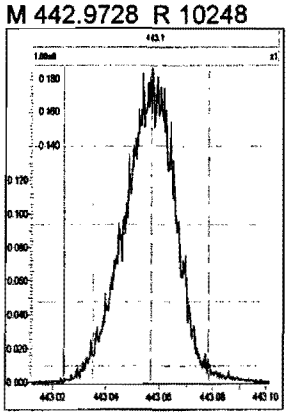
M 416.9760 R 10730



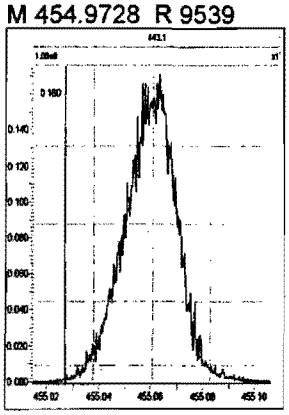
M 430.9728 R 10638



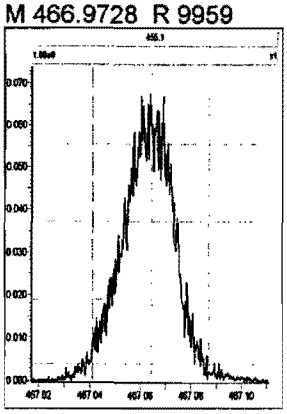
M 442.9728 R 10248



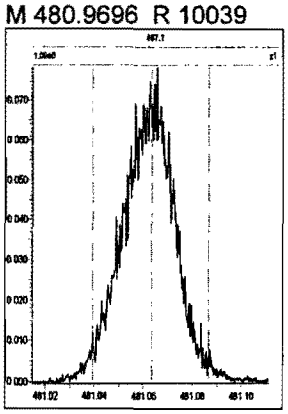
M 454.9728 R 9539



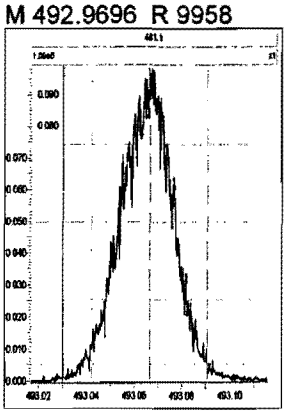
M 466.9728 R 9959



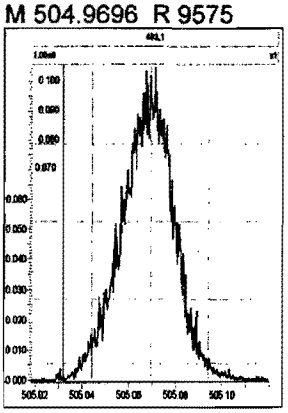
M 480.9696 R 10039



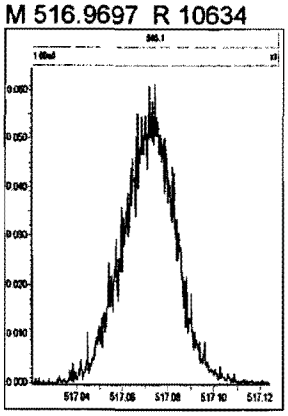
M 492.9696 R 9958



M 504.9696 R 9575



M 516.9697 R 10634



Experiment Calibration Report **MassLynx 4.1** Page 1 of 1

File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

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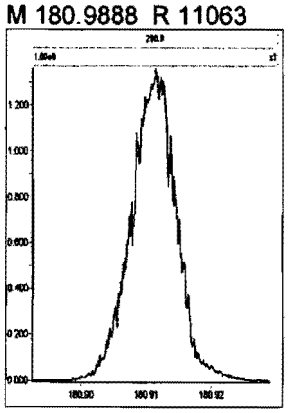
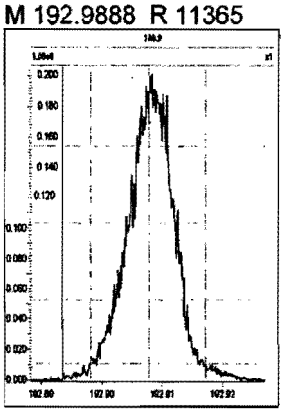
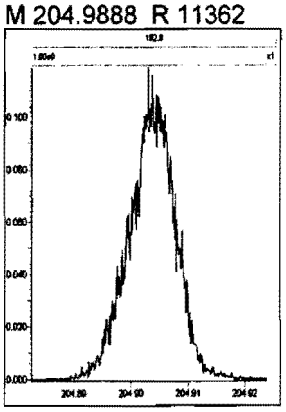
M 180.9888 R 11063



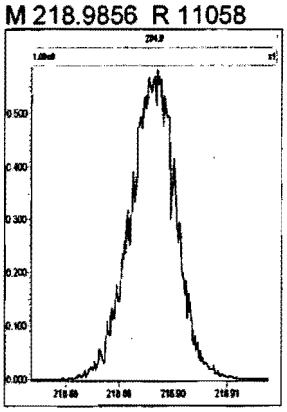
M 192.9888 R 11365



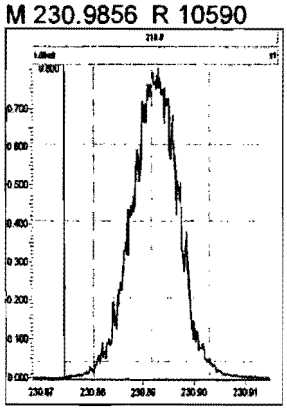
M 204.9888 R 11362



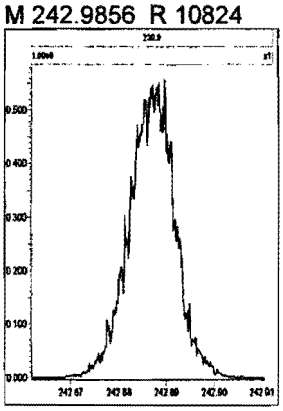
M 218.9856 R 11058



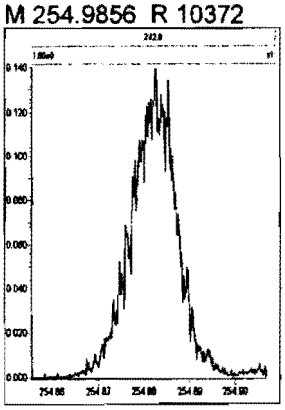
M 230.9856 R 10590



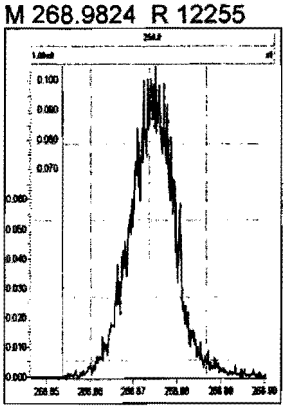
M 242.9856 R 10824



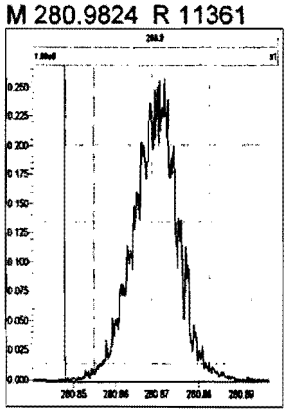
M 254.9856 R 10372



M 268.9824 R 12255



M 280.9824 R 11361



Experiment Calibration Report **MassLynx 4.1** Page 1 of 1

File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

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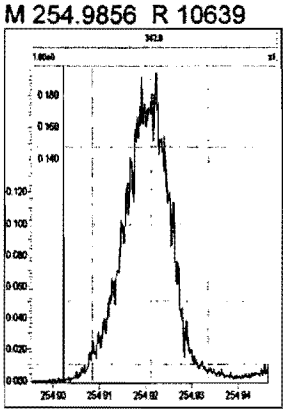
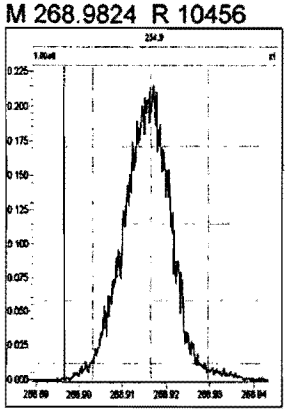
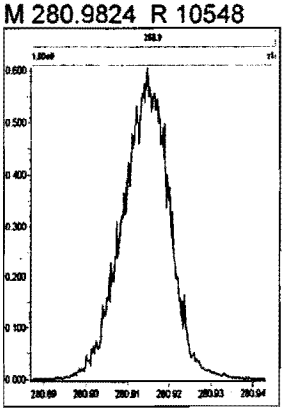
M 254.9856 R 10639



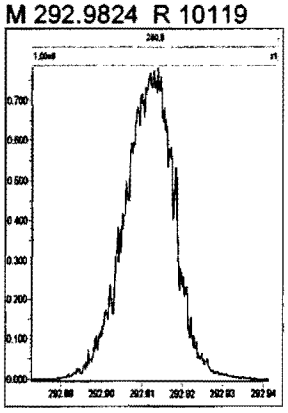
M 268.9824 R 10456



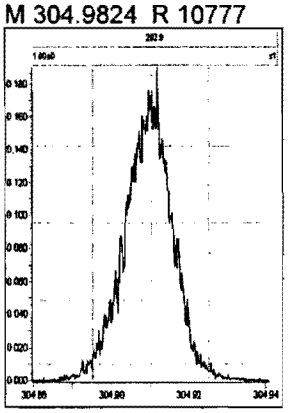
M 280.9824 R 10548



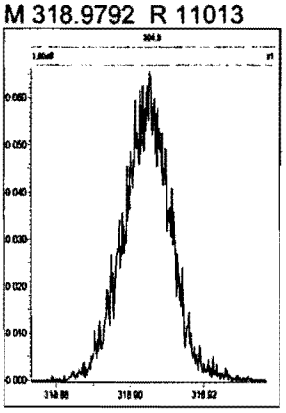
M 292.9824 R 10119



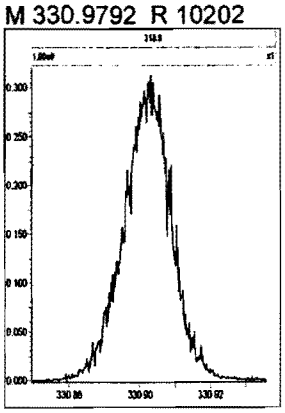
M 304.9824 R 10777



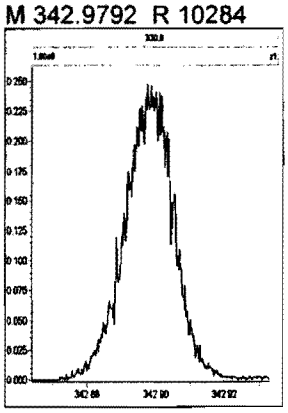
M 318.9792 R 11013



M 330.9792 R 10202



M 342.9792 R 10284



Experiment Calibration Report **MassLynx 4.1**

File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

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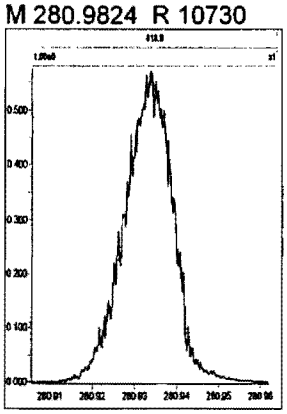
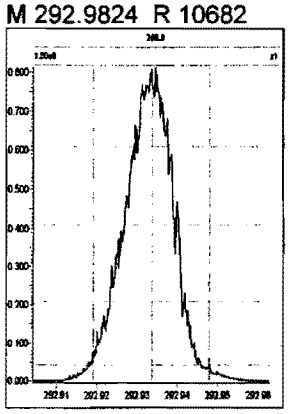
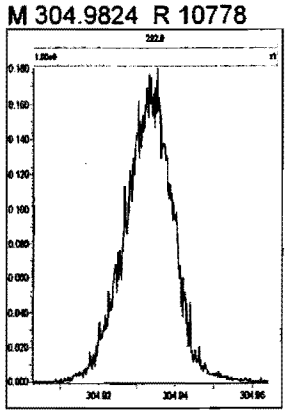
M 280.9824 R 10730



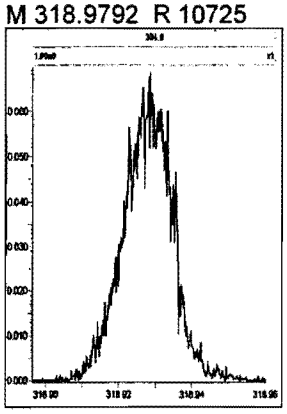
M 292.9824 R 10682



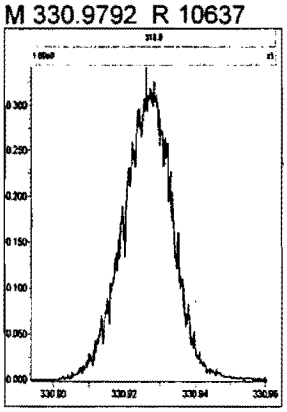
M 304.9824 R 10778



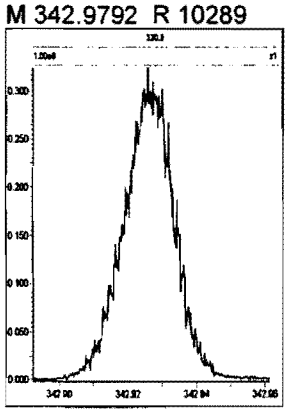
M 318.9792 R 10725



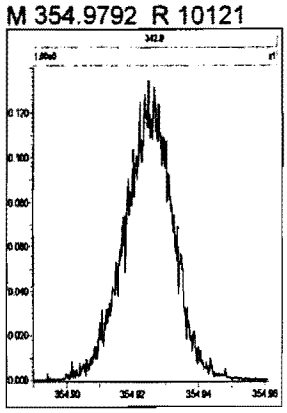
M 330.9792 R 10637



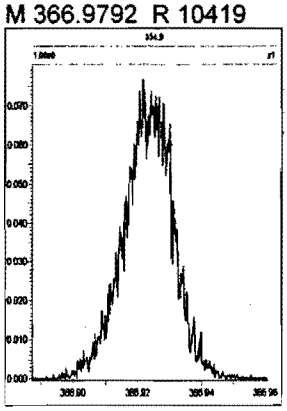
M 342.9792 R 10289



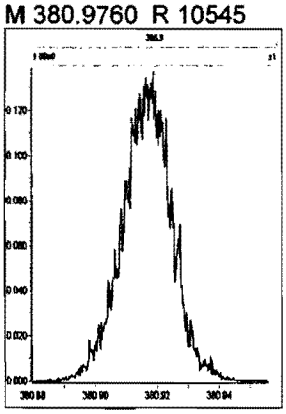
M 354.9792 R 10121



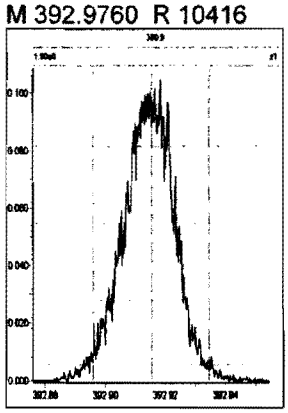
M 366.9792 R 10419



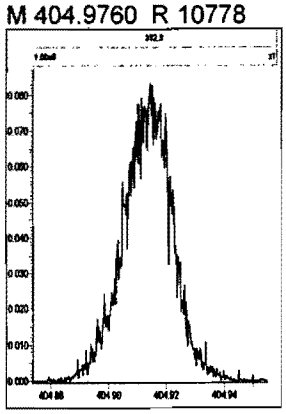
M 380.9760 R 10545



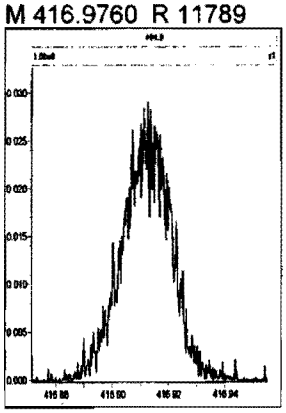
M 392.9760 R 10416



M 404.9760 R 10778



M 416.9760 R 11789



File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

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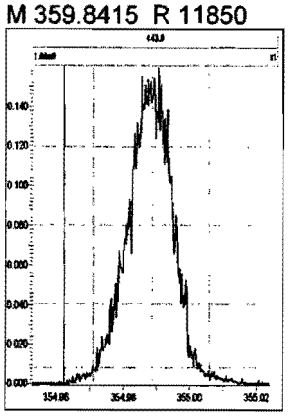
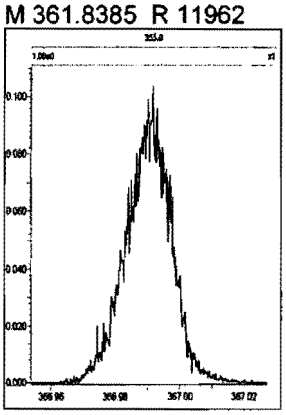
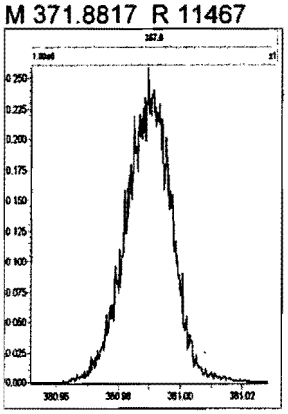
M 359.8415 R 11850



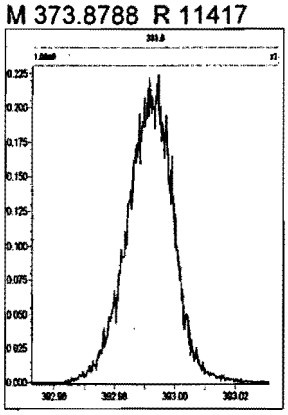
M 361.8385 R 11962



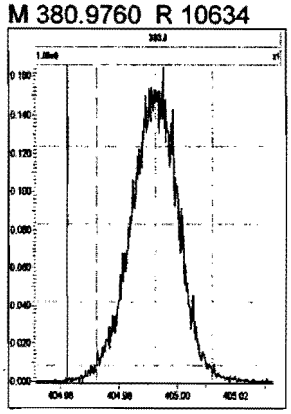
M 371.8817 R 11467



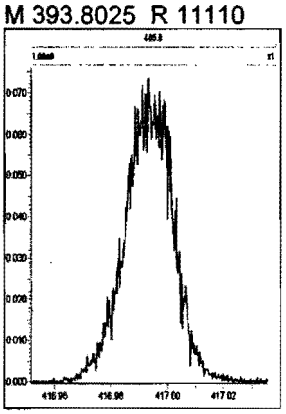
M 373.8788 R 11417



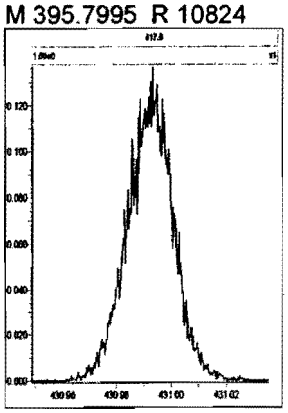
M 380.9760 R 10634



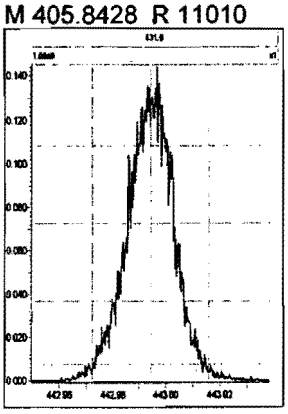
M 393.8025 R 11110



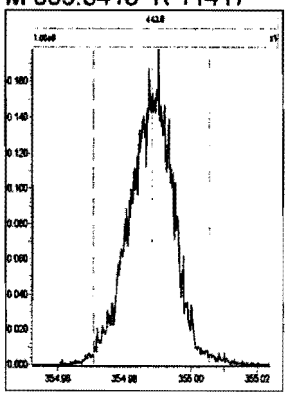
M 395.7995 R 10824



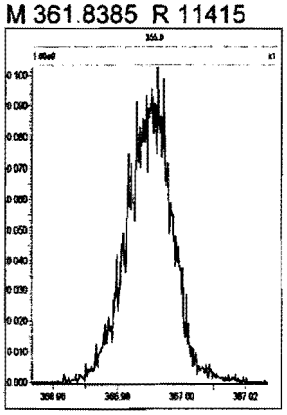
M 405.8428 R 11010



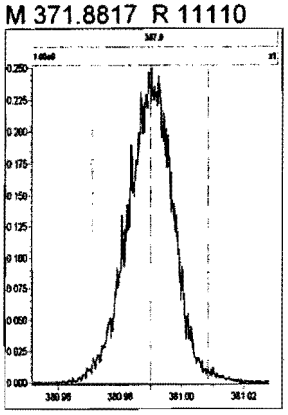
M 359.8415 R 11417



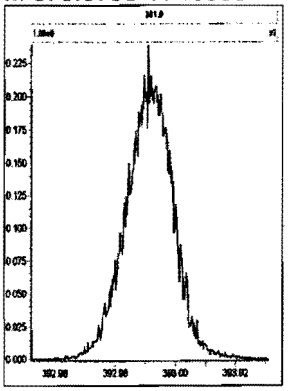
M 361.8385 R 11415



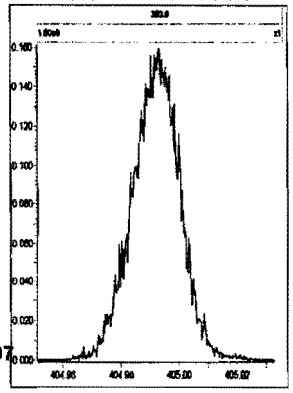
M 371.8817 R 11110



M 373.8788 R 10685



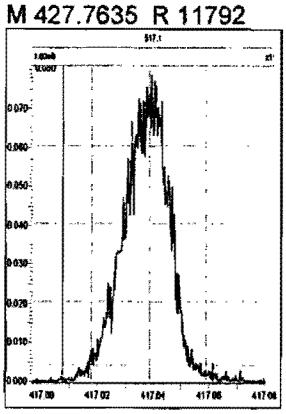
M 380.9760 R 10504



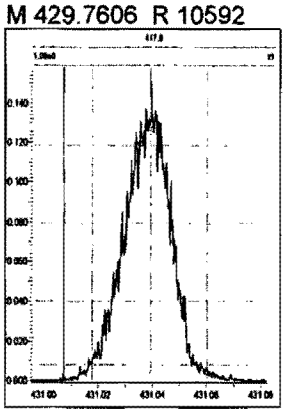
File: Experiment: 1668M3D5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, March 02, 2010 13:54:42 Pacific Standard Time

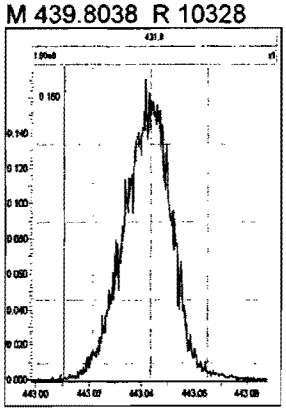
M 427.7635 R 11792



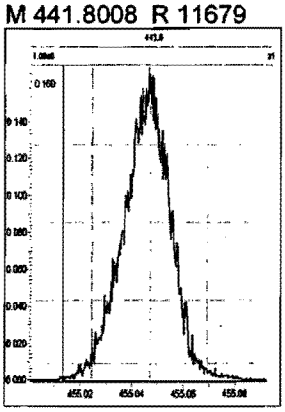
M 429.7606 R 10592



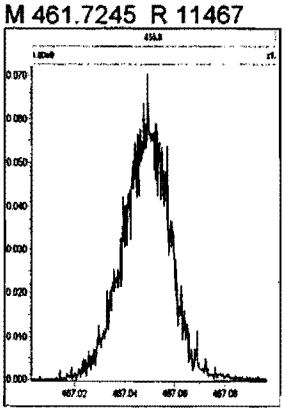
M 439.8038 R 10328



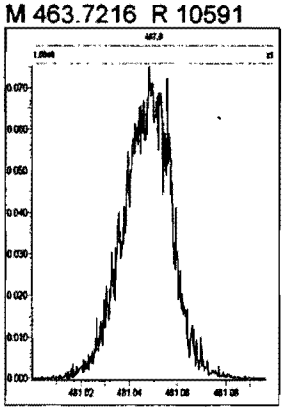
M 441.8008 R 11679



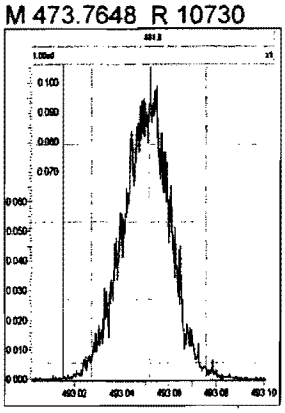
M 461.7245 R 11467



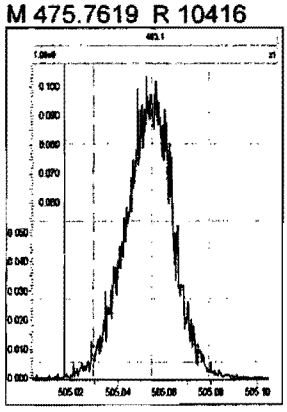
M 463.7216 R 10591



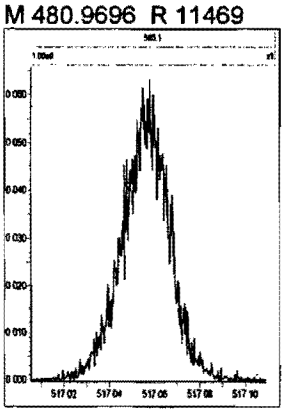
M 473.7648 R 10730



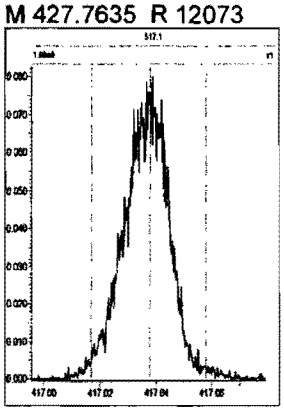
M 475.7619 R 10416



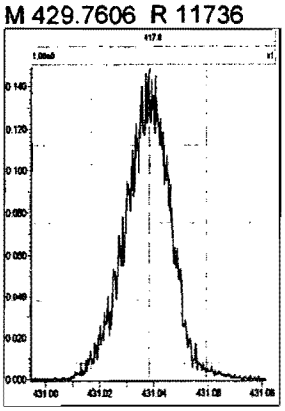
M 480.9696 R 11469



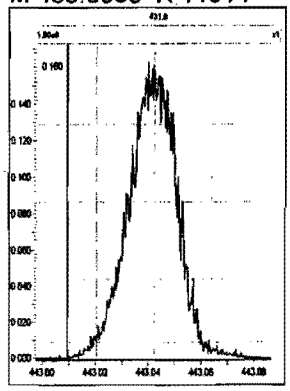
M 427.7635 R 12073



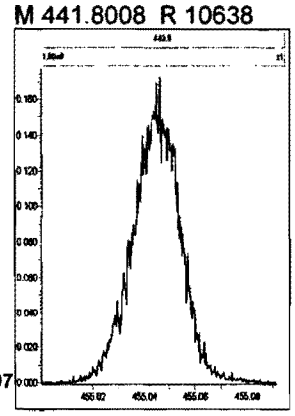
M 429.7606 R 11736



M 439.8038 R 11314



M 441.8008 R 10638



Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

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Method: C:\MassLynx\JAN2010.PRO\MethDB\82903D5.mdb 02 Mar 2010 14:08:15
Calibration: C:\MassLynx\JAN2010.PRO\CurveDB\ICA030120103D58290.cdb 01 Mar 2010 16:27:59

Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

1	13C-1,2,3,4-TCDD	2167643	19.14	19.14	1.00000	1.00000	100.00	0.0	100.0	0.771	NO
2											
3	13C-2,3,7,8-TCDF	3286110	18.57	18.55	1.40173	1.51598	108.15	8.2	108.2	0.789	NO
4	2,3,7,8-TCDF	315167	18.58	18.58	0.92135	0.95909	10.41	4.1	104.1	0.757	NO
5	Total TCDFs			21.44	0.92135		10.41				
6											
7	13C-2,3,7,8-TCDD	2090943	19.35	19.35	0.94961	0.96462	101.58	1.6	101.6	0.781	NO
8	2,3,7,8-TCDD	218737	19.37	19.37	1.03870	1.04611	10.07	0.7	100.7	0.793	NO
9	Total TCDDs			19.55	1.03870		10.07				
10											
11	37CL-2,3,7,8-TCDD	243179	19.37	19.37	1.14465	1.12186	9.80	-2.0	98.0		
12											
13	13C-1,2,3,7,8-PeCDF	2404353	24.18	24.14	1.11677	1.10920	99.32	-0.7	99.3	1.609	NO
14	1,2,3,7,8-PeCDF	1247088	24.20	24.21	0.98929	1.03736	52.43	4.9	104.9	1.562	NO
15	2,3,4,7,8-PeCDF	1180153	25.68	25.68	0.94936	0.98168	51.70	3.4	103.4	1.556	NO
16	Total F2 PeCDFs			34.47	0.96932		104.13				
17	Total F1 PeCDFs			36.56	0.96932		0.00				
18											
19	13C-1,2,3,7,8-PeCDD	1633614	26.46	26.44	0.77603	0.75364	97.11	-2.9	97.1	1.582	NO
20	1,2,3,7,8-PeCDD	837012	26.50	26.48	0.96958	1.02474	52.84	5.7	105.7	1.592	NO
21	Total PeCDDs			31.10	0.96958		52.84				
22											
23	13C-1,2,3,7,8,9-HxCDD	1718266	32.98	32.97	1.00000	1.00000	100.00	0.0	100.0	1.207	NO
24											
25	13C-1,2,3,4,7,8-HxCDF	1702645	31.75	31.75	0.97183	0.99091	101.96	2.0	102.0	0.518	NO
26	1,2,3,4,7,8-HxCDF	1049500	31.77	31.77	1.20038	1.23279	51.35	2.7	102.7	1.252	NO
27	1,2,3,6,7,8-HxCDF	1164175	31.90	31.87	1.34082	1.36749	50.99	2.0	102.0	1.264	NO
28	2,3,4,6,7,8-HxCDF	1088503	32.48	32.49	1.25668	1.27860	50.87	1.7	101.7	1.248	NO
29	1,2,3,7,8,9-HxCDF	1007169	33.15	33.16	1.07528	1.18306	55.01	10.0	110.0	1.278	NO
30	Total HxCDFs			0.00	1.21829		208.23				
31											
32	13C-1,2,3,6,7,8-HxCDD	1508163	32.70	32.69	0.89936	0.87772	97.59	-2.4	97.6	1.304	NO
33	1,2,3,4,7,8-HxCDD	740366	32.62	32.62	0.90180	0.98181	54.44	8.9	108.9	1.231	NO
34	1,2,3,6,7,8-HxCDD	878997	32.71	32.71	1.09904	1.16565	53.03	6.1	106.1	1.270	NO
35	1,2,3,7,8,9-HxCDD	884252	32.98	33.00	1.06390	1.17262	55.11	10.2	110.2	1.235	NO
36	Total HxCDDs			0.00	1.02158		162.58				
37											
38	13C-1,2,3,4,6,7,8-HpCDF	1457079	34.51	34.52	0.84273	0.84799	100.62	0.6	100.6	0.438	NO
39	1,2,3,4,6,7,8-HpCDF	1030580	34.52	34.52	1.30670	1.41458	54.13	8.3	108.3	1.002	NO
40	1,2,3,4,7,8,9-HpCDF	820454	35.66	35.65	1.06434	1.12616	52.90	5.8	105.8	1.083	NO
41	Total HpCDFs			0.00	1.18552		107.03				
42											
43	13C-1,2,3,4,6,7,8-HpCDD	1350977	35.34	35.34	0.79749	0.78624	98.59	-1.4	98.6	1.101	NO
44	1,2,3,4,6,7,8-HpCDD	709503	35.35	35.35	0.99684	1.05036	52.68	5.4	105.4	1.019	NO
45	Total HpCDDs			0.01	0.99684		52.68				
46											

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 14:11:18 Pacific Standard Time
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Name: 01MR10A3D5_19, Date: 02-Mar-2010, Time: 08:45:59, ID: ST0301H, Description: CS-3 10DXN049

47	13C-OCDD	1943511	37.86	37.87	0.59869	0.56554	188.93	-5.5	94.5	0.858	NO
48	OCDF	1305850	37.98	37.98	1.26224	1.34380	106.46	6.5	106.5	0.922	NO
49	OCDD	1162262	37.88	37.88	1.11522	1.19604	107.25	7.2	107.2	0.904	NO
50											
51											
52	Function 1 PFK			0.00	11489....						
53	Function 2 PFK			0.00	9733.6...						
54	Function 3 PFK			0.00	5225.1...						
55	Function 4 PFK			0.00	4454.8...						
56	Function 5 PFK			0.00	3910.7...						
57	TCDF PCDPE			0.00	45.934...						
58	F1 PeCDF PCDPE			0.00	76.179...						
59	F2 PeCDF PCDPE			0.00	92.309...						
60	HXCDF PCDPE			0.00	77.611...						
61	HPCDF PCDPE			0.00	88.953...						
62	OCDF PCDPE			0.00	102.26...						

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

Last Altered: Tuesday, March 02, 2010 14:11:18 Pacific Standard Time
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Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

1	13C-1,2,3,4-TCDD	2484885	19.14	19.14	1.00000	1.00000	100.00	0.0	100.0	0.780	NO
2											
3	13C-2,3,7,8-TCDF	3777506	18.57	18.55	1.40173	1.52019	108.45	8.5	108.5	0.797	NO
4	2,3,7,8-TCDF	369683	18.58	18.58	0.92135	0.97864	10.62	6.2	106.2	0.786	NO
5	Total TCDFs			21.44	0.92135		10.62				
6											
7	13C-2,3,7,8-TCDD	2458307	19.34	19.35	0.94961	0.98930	104.18	4.2	104.2	0.754	NO
8	2,3,7,8-TCDD	254223	19.37	19.37	1.03870	1.03414	9.96	-0.4	99.6	0.796	NO
9	Total TCDDs			19.55	1.03870		9.96				
10											
11	37CL-2,3,7,8-TCDD	282807	19.37	19.37	1.14465	1.13811	9.94	-0.6	99.4		
12											
13	13C-1,2,3,7,8-PeCDF	2759165	24.15	24.14	1.11677	1.11038	99.43	-0.6	99.4	1.589	NO
14	1,2,3,7,8-PeCDF	1431431	24.18	24.19	0.98929	1.03758	52.44	4.9	104.9	1.559	NO
15	2,3,4,7,8-PeCDF	1353398	25.66	25.66	0.94936	0.98102	51.67	3.3	103.3	1.562	NO
16	Total F2 PeCDFs			34.47	0.96932		104.11				
17	Total F1 PeCDFs			36.56	0.96932						
18											
19	13C-1,2,3,7,8-PeCDD	1919652	26.44	26.44	0.77603	0.77253	99.55	-0.5	99.5	1.610	NO
20	1,2,3,7,8-PeCDD	968113	26.47	26.46	0.96958	1.00863	52.01	4.0	104.0	1.593	NO
21	Total PeCDDs			31.10	0.96958		52.01				
22											
23	13C-1,2,3,7,8,9-HxCDD	2025581	32.97	32.97	1.00000	1.00000	100.00	0.0	100.0	1.276	NO
24											
25	13C-1,2,3,4,7,8-HxCDF	1995543	31.75	31.74	0.97183	0.98517	101.37	1.4	101.4	0.510	NO
26	1,2,3,4,7,8-HxCDF	1239283	31.76	31.77	1.20038	1.24205	51.74	3.5	103.5	1.243	NO
27	1,2,3,6,7,8-HxCDF	1368529	31.89	31.87	1.34082	1.37159	51.15	2.3	102.3	1.256	NO
28	2,3,4,6,7,8-HxCDF	1232097	32.48	32.49	1.25668	1.23485	49.13	-1.7	98.3	1.230	NO
29	1,2,3,7,8,9-HxCDF	1177945	33.15	33.16	1.07528	1.18058	54.90	9.8	109.8	1.253	NO
30	Total HxCDFs			0.00	1.21829		206.91				
31											
32	13C-1,2,3,6,7,8-HxCDD	1781534	32.70	32.68	0.89936	0.87952	97.79	-2.2	97.8	1.148	NO
33	1,2,3,4,7,8-HxCDD	874569	32.62	32.62	0.90180	0.98182	54.44	8.9	108.9	1.344	NO
34	1,2,3,6,7,8-HxCDD	975636	32.71	32.71	1.09904	1.09528	49.83	-0.3	99.7	1.137	NO
35	1,2,3,7,8,9-HxCDD	1037763	32.98	33.00	1.06390	1.16502	54.75	9.5	109.5	1.260	NO
36	Total HxCDDs			0.00	1.02158		159.02				
37											
38	13C-1,2,3,4,6,7,8-HpCDF	1725127	34.51	34.51	0.84273	0.85167	101.06	1.1	101.1	0.448	NO
39	1,2,3,4,6,7,8-HpCDF	1190258	34.52	34.52	1.30670	1.37991	52.80	5.6	105.6	1.062	NO
40	1,2,3,4,7,8,9-HpCDF	1009234	35.66	35.65	1.06434	1.17004	54.97	9.9	109.9	1.032	NO
41	Total HpCDFs			0.00	1.18552		107.77				
42											
43	13C-1,2,3,4,6,7,8-HpCDD	1697935	35.34	35.32	0.79749	0.83825	105.11	5.1	105.1	1.093	NO
44	1,2,3,4,6,7,8-HpCDD	864386	35.35	35.35	0.99684	1.01816	51.07	2.1	102.1	1.053	NO
45	Total HpCDDs			0.01	0.99684		51.07				
46											
47	13C-OCDD	2431260	37.86	37.85	0.59869	0.60014	200.48	0.2	100.2	0.906	NO
48	OCDF	1624259	37.98	37.98	1.26224	1.33615	105.86	5.9	105.9	0.891	NO
49	OCDD	1415849	37.88	37.88	1.11522	1.16470	104.44	4.4	104.4	0.894	NO

Dataset: C:\MassLynx\JAN2010.PRO\01MR10A3D58290H.qld

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Name: 01MR10A3D5_25, Date: 02-Mar-2010, Time: 13:05:01, ID: ST0301I, Description: CS-3 10DXN049

50		
51		
52	Function 1 PFK	0.00 11489....
53	Function 2 PFK	0.00 9733.6...
54	Function 3 PFK	0.00 5225.1...
55	Function 4 PFK	0.00 4454.8...
56	Function 5 PFK	0.00 3910.7...
57	TCDF PCDPE	0.00 45.934...
58	F1 PeCDF PCDPE	0.00 76.179...
59	F2 PeCDF PCDPE	0.00 92.309...
60	HXCDF PCDPE	0.00 77.611...
61	HPCDF PCDPE	0.00 88.953...
62	OCDF PCDPE	0.00 102.26...

TestAmerica West Sacramento
High Resolution Prep Log
Dioxin/Furan AQ Extraction

Box # 27

Shared QC Batch: 0054309

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	03/01/10
Inst Receipt:	

Shares QC With:

Batch: 0056319

MS Run #:

Prep Date: 2/25/2010

Method: Q& 8290A

Matrix: I WATER

Extraction: 09 LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

QC: 01 STANDARD TEST SET

SAC: Q& - I - 09 - 01

Prep Reagents		
Reagent	Supplier	Lot #
DCM	Baker	H40S02
Hexane	Baker	H33E04
H2SO4	Baker	NA
20% DCM:Hexane	NA	3630-48E
65% DCM:Hexane	NA	3630-49G
1:1 DCM:Cyclohexane	NA	NA
75:20:5 DCM:Hexane:Benzene	NA	NA
Silica Gel	WHATMAN	22-22
Acid Alumina	MP	19
5% Carbon:Silica Gel	NA	NA

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size * 1000mL nom.	Final Volume 20uL	Final Volume Other	Analysis Hold Time Expires	Rotovap ID
G0B250000 - 319	B	LV4HR1AA	3/4/2010	1000.00	✓	~~T.L~~	4/11/2010	5
G0B250000 - 319	C	LV4HR1AC	3/4/2010	1000.00	✓	~~3/01/10~~	4/11/2010	7
G0B250507 - 1		LV3T71AA	3/4/2010	992.93	✓		4/11/2010	7

* See attached sheet for sample volumes recorded from scale

Comments/NCMs:

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Internal Standard All Samples	1.0mL 10DXN072	10/31/10	[illegible]	[illegible]	2/25/10
Spike Mix LCS/LCSD/MS/MS	—	—	—	—	—
Cleanup Standard All Samples	1.0mL 10DXN081	2/23/11	[illegible]	[illegible]	2/26/10
Recovery Standard All Samples	20.0µL09DXN388	11/19/2010	T.L	[illegible]	03/01/10
Liq Liq Extraction Analyst/Date	[illegible] 2/25/10				

Split/Archive Analyst/Date	Option C Analyst/Date	IFB Analyst/Date	D2 Analyst/Date
—	—	[illegible] 2/26/10	—

TestAmerica West Sacramento

Data Checklist
HRGCMS/LRGCMS Analyses

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Batch #: 0056319 Method ID: Dioxins/Furans, HRGC/HRMS (8290A)

	DB-5	DB-225
Data Analyst:	AK	
Date initiated:	3/3/10	
Reviewer:	CL	
Date reviewed:	3/4/10	

QA/QC verification:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Daily standard package(s) present?	✓	✓		
-Method Blank present?	✓	✓		
-LCS/DCS copy present and meets native recovery criteria?	✓	✓		
-Internal standard recoveries within limits?*	✓	✓		
-Ion ratios within + 15% of theoretical values?	①	①		
-Other QC (Dup,MS,SD) within specs?**	NA	NA		

Sample Analysis:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Correct sample aliquot used?	✓	✓		
-All raw data present?	✓	✓		
-Standard target DL's used? If RL's are used specify:_____	✓	✓		
-DL's below TDL / LCL (please circle)?	✓	✓		
-All positives reported at levels greater than method blank DL's?	✓	✓		
-Correct RRF's used for method?	✓	✓		
-Internal standard amounts correct for method?	✓	✓		
-Target analytes are not saturated?	✓	✓		
-Dilution/splitting of extract taken into account?	NA	NA		
-Have dilution calculations been verified?	NA	NA		
-Has a manual calculation for the sequence(s) been verified?	✓	✓		
-Are retention times (RT) correct?	✓	✓		
-Manual integrations checked?	✓	✓		

Comments: (Use other side if necessary)
① see NCM

* Recovery limits:		**RPD limits:
NCASI 551:	40-120%***	50%
Method 8290:	40-135%***	20%
Method 1613:	25-150%***	50%
Method 23:	40-130%***(Cl4-Cl6), 25-130%(Cl7-8), 70-130%(surr.)	50%
PCBs:	25-150%***	50%
Method 8280:	40-120%***	
DFLM01.0:	25-150%***	
Method 1614	25-150%***	

*** Lower recoveries are acceptable if I.S. S/N ≥10:1 and DL's are <LCL for target analytes.

QA-371 07/99 MAF

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/01/10
Time: 7:33:27

LEV 1	LEV 2		LEV 1	LEV 2	
Y	_	Blank	Y	_	Weights/Volumes
Y	_	Check	Y	_	Spike & Surrogate Worksheet
_	_	MS/MSD	Y	_	Vial contains correct volume
			Y	_	Labels, greenbars, worksheets
			_	_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: 002531 Jonathan Reed

Concentrationist: 000047 Tatyana Lopuga

QC BATCH: 0056319

PREP DATE: 2/25/10 19:38
COMP DATE: 3/01/10 15:00

Reviewer/Date: LOPUGAT / 3/01/10

Dioxins/Furans, HRGC/HRMS (8290A)
LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/04/10	3/04/10	G0B250507-001 **LV3T7-1-AA**	R	09	Q&	WATER	**992.93mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	100.0	1.0 ML 10DXN072 IS
COMMENTS:															
3/04/10	0/00/00	G0B250000-319 **LV4HR-1-AAB**		09	Q&	WATER	**1000.00mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	100.0	1.0 ML 10DXN072 IS
COMMENTS:															
3/04/10	0/00/00	G0B250000-319 **LV4HR-1-ACC**		09	Q&	WATER	**1000.00mL** 20.00uL	NA	NA	NA	DCM	300.0	C-14	100.0	50.0 UL 10DXN047 NS 1.0 ML 10DXN072 IS
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD
*

NUMBER OF WORK ORDERS IN BATCH: 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0056319 **Test:** 8290

Prep Date: 2/25/10 **Holding Times:** 3/04/10 **NCM:** Y (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. **Holding times checked?** NCMs filed as appropriate	✓	
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	✓	
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.	✓	NA
4. Worksheets have been checked for required spiking compounds	✓	
5. Spiking volumes are correctly documented	✓	
6. Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7. Expiration dates have been checked	✓	
8. Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet	✓	
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	
2. Balance upload or raw data for weights is included	NA	
3. Weights and volumes have been transcribed correctly to LIMS.	NA	
4. Weights are not targeted to meet exact weights.	NA	
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	
2. Are dates and analysts for cleanups recorded?	NA	
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	
2. QuantIMs entry correct, including dates and times.	NA	
3. Are all fields completed?	NA	

Spike witness: [signature] Date: 2/25/10

2nd Level Reviewer: [signature] Date: 3/10

Comments:

q:\forms\checklists\qa-588 prep_review.doc *QA-588 Revised 12/30/2008 ERS*

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING	Test America – West Sacramento Daily Calibration Checklist Dioxin Methods

Method ID 8290A **Associated ICAL** ICA030120103D58290

Column ID DB5 **Instrument ID** 3D5

STD ID ST0301H, ST0301I **STD Solution** 10DXN049

Analyzed by JRB **Date Analyzed** 03/02/10, 03/02/10

Std. Pkg. By JRB **Date Std. Pkg. Assembled** 03/02/10

Std. Pkg. Reviewed By SMN **Date Std. Pkg. Reviewed** 03/02/10

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?**	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for **all** 1613B samples)	NA	NA

COMMENTS:

* **Method 8290/TO9/M0023A: (beginning)** ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.
Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.
Method 23: See Method 23 Daily Standard Criteria, Table 5.
Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria,
** **Method 23/0023A CPSM Criteria**: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet
Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Test America – West Sacramento

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Initial Calibration Checklist
Dioxin Methods

ICAL ID ICA030120103D5 (8290, 1613, TETRAS)

Method ID 8290, 1613B, Tetras

Date Scanned

Column ID DB5

Instrument ID 3D5

STD ID's ST0301,(A, B , C, D,)

STD Solution 10DXN049, 09DXN422(23,26,56)

GC Program DIOXIN

Multiplier Setting 350

Analyzed By JRB

Date Analyzed 03/01/10

Prepared By JRB

Date Prepared 3/1/10

Reviewed By M.G.

Date Reviewed 3/1/10

[illegible]	INITIALED	REVIEWED
Curve summary present?	✓	✓
Hardcopies of chromatograms for CS1-CS5 present?	✓	✓
Copy of log-file present?	✓	✓
Static resolution check present?	✓	✓
Target file RT's correct?	✓	✓
%RSD within method-specified limits?*	✓	✓
Signal-to-noise criteria met?	✓	✓
Isotopic ratios within limits?	✓	✓
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA

COMMENTS: CS3 13C-1,2,3,4-TCDD RT = 19.13 min 13C-1,2,3,7,8,9-HxCDD RT = 32.97 min

*Method 8290/TO9/M0023A: %RSD ≤20% for natives, ≤30% for labeled compounds; S/N≥10
Method 1613B: %RSD≤ 20% natives, ≤30% labeled compounds; S/N ≥10
Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N ≥ 2.5

C:\Documents and Settings\lores\Desktop\QA-384 Dioxins ICAL Checklist 3D5.doc
QA-384 7/26/06 DAW

SECTION 4

PROJECT CASE NARRATIVES AND CHAIN-OF-CUSTODY RECORDS

Case Narrative

TestAmerica West Sacramento Project Number G0B040517

General comments

Several samples were placed on hold per instructions from Christina Venable on February 5, 2010.

WATER, 8290A, Dioxins/Furans
Sample(s): 2, 4, 4, 4, 10, 12
Several analytes in each sample have been qualified with a "Q" flag as the ion abundance ratios are outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio.

There were no other anomalies associated with this project.

Sample Summary

TestAmerica West Sacramento Project Number G0B040517

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LT76V	2	1138338UF	2/2/2010 11:30 AM	2/4/2010 09:00 AM
LT76X	4	1138339UF	2/2/2010 11:52 AM	2/4/2010 09:00 AM
LT769	10	1138342UF	2/2/2010 11:30 AM	2/4/2010 09:00 AM
LT77C	12	1138343UF	2/2/2010 04:30 PM	2/4/2010 09:00 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

G0B040517

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Loureiro Engineering Assoc.	Project Manager: Dave Scotti	Date: 2/2/10	Chain of Custody Number: 133161
Address: 100 Northwest Dr	Telephone Number (Area Code)/Fax Number: 8607476181 / 8607478822	Lab Number	Page 2 of 3
City: Plainville; State: CT; Zip Code: 06062	Site Contact: Dave Briel	Lab Contact	
Project Name and Location (State): GW Sampling Centredale Manor RI	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TCL	PCBs/PCBs EPA 8270A	Special Instructions/ Conditions of Receipt
TEMP BLANK	2/2/10													1		
1138340 uf		1152		X										1	X	
1138341		1152		X										2	X	
1138341 uf		1152		X										2	X	
1138342		1130		X										2	X	
1138342 uf		1130		X										2	X	
1138343	2/2/10	1630		X										2	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	2/3/10	1600	1. Received By	2/4/10	1045
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: EDD and Data Validation Package Deliverables

Cooler # 540286

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

G0B040517

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Loureiro Engineering ASSOC	Project Manager: Dave Scotti	Date: 2/2/10	Chain of Custody Number: 133162
Address: 100 Northwest Dr	Telephone Number (Area Code)/Fax Number: 8607476181 / 8607478822	Lab Number	Page 3 of 3
City: Plainville; State: CT; Zip Code: 06062	Site Contact: Dave Briel	Lab Contact	
Project Name and Location (State): GW Sampling Centredale Manor RI	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): PCDD/PCDF EPA 8290A	Special Instructions/ Conditions of Receipt
1138343 uf	2/2/10	1630		X										2	X	
Temp Blank	2/2/10													1		
* 1138344	2/2/10	1630		X										2	X	
															2/3/10	
* labeled 1138344 uF - 02/4/10																

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	2/3/10	1600	1. Received By: Cheng Yue	2/4/10	1045
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: EDD and Data Validation Package Deliverables

Cooler # 540288

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

G0B040517

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Loureiro Engineering Assoc.	Dave Scotti	2/2/10	133160
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 3**
100 Northwest Dr	860-747-6181 / Fax 860-747-8822		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Plainville / CT / 06062	Dave Briel		
Project Name and Location (State)	**Carrier/Waybill Number**		
GW Sampling Centredale Manor RI			
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): PCDDs/PCDFs EPA 8290A

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Zn2	PCDDs/PCDFs EPA 8290A	Special Instructions/ Conditions of Receipt
1138338	2/2/10	1130		X									2	X	
1138338uf		1130		X									2	X	
1138339		1152		X									2	X	
1138339uf		1152		X									2	X	
1138340		1152		X									2	X	
1138340uf		1152		X								KV 2/3/10	~~2~~ 1	X	
TEMP BLANK															
~~1138341~~		~~1152~~		~~X~~									~~2~~	~~X~~	KV 2/3/10
~~1138341uf~~		~~1152~~		~~X~~									~~2~~	~~X~~	KV 2/3/10
~~1138342~~		~~1130~~		~~X~~									~~2~~	~~X~~	KV 2/3/10
~~1138342uf~~		~~1130~~		~~X~~									~~2~~	~~X~~	KV 2/3/10
~~1138343~~		~~1630~~ ~~1130~~		~~X~~									~~2~~	~~X~~	KV 2/3/10
~~1138343uf~~	2/2/10	~~1630~~ ~~1130~~		~~X~~									~~2~~	~~X~~	KV 2/3/10

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	2/3/10	1600	1. Received By: Chang Vue	2/4/10	10 45
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: EDD and Data Validation Package deliverables

Cooler # 540287

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

411111 THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Lourein Eng. PM UK LOG # 63085

LOT# (QUANTIMS ID) G0B040517 QUOTE# 85234 LOCATION W15B

Checked (✓)

DATE RECEIVED 2/4/10 TIME RECEIVED 0900 ☑

DELIVERED BY ☑ FEDEX ☐ ON TRAC ☐ CLIENT

☐ GOLDENSTATE ☐ UPS ☐ GO-GETTERS ☐ OTHER

☐ TAL COURIER ☐ TAL SF ☐ VALLEY LOGISTICS ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) 540286, 540287, 540288

SHIPPPING CONTAINER(S) ☑ TAL ☐ CLIENT ☐ N/A ☑

COC #(S) 133161, 133160, 133162 ☑

TEMPERATURE BLANK Observed: Corrected: See multi-cooler check list

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: Average Corrected Average

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☐ #5 ☑ ☐ OTHER ☑

Initials: CV Date: 2/4/10

---

pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A ☑

LABELED BY ☑

LABELS CHECKED BY ☑

PEER REVIEW ☑ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING ☑

WETCHEM ☑ N/A ☑

VOA-ENCORES ☑ N/A ☑

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☑ N/A ☑

☑ 2/4/10 COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☑ N/A ☑

☑ CLOUSEAU ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)[1] ☑ 2/4/10 N/A

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☑ PM NOTIFIED

Initials: CV Date: 2/4/10

Notes

[1] Acceptable temperature range for State of Wisconsin samples is ≤4°C

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G0B040517

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB	2	2	2	2	2	2	2	2	2	2	2	2	1							
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 5/05 EM

Page 3

LEAVE NO SPACES BLANK USE "NA" IF NOT APPLICABLE

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

MULTI COOLER RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT: Loureiro Eng. LOT# (QUANTIMS ID): G0B040517

Checked (✓)

TEMPERTURE RECORD (IN °C) IR 4☐ 5☑ ☐ OTHER _____ ☑

COOLER ID 1 ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) 540286 ☑

COC #(S) 133161

TEMPERATURE BLANK: OBSERVED: 1 CORRECTED 2 / ☑

SAMPLE TEMPERATURE:

OBSERVED: 2 4 3 AVERAGE: 3 CORRECTED 3 / ☑

SAMPLES / TESTS (IF NCM REQUIRED): _____ ☑

TEMPERTURE RECORD (IN °C) IR 4☐ 5☑ ☐ OTHER _____ ☑

COOLER ID 2 ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) ~~133160~~ 540287 CV 2/4/10 ☑

COC #(S) 133160

TEMPERATURE BLANK: OBSERVED: 2 CORRECTED 3 / ☑

SAMPLE TEMPERATURE:

OBSERVED: 3 3 3 AVERAGE: 3 CORRECTED 3 / ☑

SAMPLES / TESTS (IF NCM REQUIRED): _____ ☑

TEMPERTURE RECORD (IN °C) IR 4☐ 5☑ ☐ OTHER _____ ☑

COOLER ID 3 ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) 540288 ☑

COC #(S) 133162 /

TEMPERATURE BLANK: OBSERVED: 2 CORRECTED 3 ☑

SAMPLE TEMPERATURE:

OBSERVED: 2 3 0 AVERAGE: 2 CORRECTED 2 / ☑

SAMPLES / TESTS (IF NCM REQUIRED): _____ ☑

CV 2/4/10

Initials Date

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE. INITIAL AND DATE ALL "N/A" ENTRIES.

QA-185 1/06 RKE, Page 2

Case Narrative

TestAmerica West Sacramento Project Number G0B250507

WATER, 8290A, Dioxins/Furans
Sample(s): 1
Several analytes have been qualified with a "Q" flag as the ion abundance ratios are outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio.

There were no other anomalies associated with this project.

Sample Summary

TestAmerica West Sacramento Project Number G0B250507

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LV3T7	1	1138344	2/2/2010 04:30 PM	2/4/2010 09:00 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

G0B250507

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Loureiro Engineering Assoc	Dave Scotti	2/2/10	133162
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
100 Northwest Dr	8607476181 / 8607478822		
City / State / Zip Code	**Site Contact / Lab Contact**		
Plainville / CT / 06062	Dave Briel		
Project Name and Location (State)	**Carrier/Waybill Number**		
GW Sampling Centredale Manor RI			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TCL	EDD/PCDF EPA 8290A											Special Instructions/ Conditions of Receipt
1138343 uf	2/2/10	1630		X										7	X											
Temp Blank	2/2/10													1												
# 1138344	2/2/10	1630		X										2	X											
														2/3/10												
* labeled 1138344 uf - CD 2/4/10																										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By [signature]	2/3/10	1600	1. Received By C Long Vue	2/4/10	1045
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments
EDD and Data Validation Package Deliverables

Cooler # 540288

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

411111 THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Lourein Eng. PM UK LOG # 63085

LOT# (QUANTIMS ID) ~~G0B040517AU~~ G0B250507 2/25/10 QUOTE# 85234 LOCATION WSB

Checked (✓)

DATE RECEIVED 2/4/10 TIME RECEIVED 0900 ☑

DELIVERED BY ☑ FEDEX ☐ ON TRAC ☐ CLIENT
☐ GOLDENSTATE ☐ UPS ☐ GO-GETTERS ☐ OTHER
☐ TAL COURIER ☐ TAL SF ☐ VALLEY LOGISTICS ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) 540286, 540287, 540288

SHIPPPING CONTAINER(S) ☑ TAL ☐ CLIENT ☐ N/A ☑

COC #(S) 133161, 133169, 133162 ☑

TEMPERATURE BLANK Observed: Corrected: See multi-cooler check list

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: Average Corrected Average

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☐ #5 ☑ ☐ OTHER ☑

Initials CV Date 2/4/10

pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A ☑
LABELED BY ☑
LABELS CHECKED BY ☑
PEER REVIEW ☑ NA

SHORT HOLD TEST NOTIFICATION
SAMPLE RECEIVING ☑
WETCHEM ☑ N/A ☑
VOA-ENCORES ☑ N/A ☑

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☑ N/A ☑

☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☑ N/A ☑ 2/4/10

☑ CLOUSEAU ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)[1] ☑ N/A 2/4/10
☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☑ PM NOTIFIED

Initials ~~CV~~ 2/4/10 CV 2/25/10 Date 2/25/10

Notes

[1] Acceptable temperature range for State of Wisconsin samples is ≤4°C.

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TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G0B250507

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB	/																			
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 5/05 EM

Page 3

LEAVE NO SPACES BLANK USE 'NA' IF NOT APPLICABLE.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

MULTI COOLER RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT: Loureiro Eng. LOT# (QUANTIMS ID): G0B040517

Checked (✓)

TEMPERTURE RECORD (IN °C) IR 4☐ 5☑ ☐ OTHER _____ ☑

COOLER ID 1 ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) 540286 ☑

COC #(S) 133161

TEMPERATURE BLANK: OBSERVED: 1 CORRECTED 2 ✓ ☑

SAMPLE TEMPERATURE:

OBSERVED: 2 4 3 AVERAGE: 3 CORRECTED 3 ✓ ☑

SAMPLES / TESTS (IF NCM REQUIRED): _____ ☑

TEMPERTURE RECORD (IN °C) IR 4☐ 5☑ ☐ OTHER _____ ☑

COOLER ID 2 ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) 433160 540287 ☑

COC #(S) 133160

TEMPERATURE BLANK: OBSERVED: 2 CORRECTED 3 ✓ ☑

SAMPLE TEMPERATURE:

OBSERVED: 3 3 3 AVERAGE: 3 CORRECTED 3 ✓ ☑

SAMPLES / TESTS (IF NCM REQUIRED): _____ ☑

TEMPERTURE RECORD (IN °C) IR 4☐ 5☑ ☐ OTHER _____ ☑

COOLER ID 3 ☑

CUSTODY SEAL STATUS ☑ INTACT ☐ BROKEN ☐ N/A ☑

CUSTODY SEAL #(S) 540288 ☑

COC #(S) 133162

TEMPERATURE BLANK: OBSERVED: 2 CORRECTED 3 ✓ ☑

SAMPLE TEMPERATURE:

OBSERVED: 2 3 0 AVERAGE: 2 CORRECTED 2 ☑

SAMPLES / TESTS (IF NCM REQUIRED): _____ ☑

CV 2/4/10
Initials Date

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE. INITIAL AND DATE ALL "N/A" ENTRIES.

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SECTION 5

PROJECT CORRESPONDENCE

Eric Lahr

From: Kyle Clay
Sent: Tuesday, March 09, 2010 1:52 PM
To: Eric Lahr
Subject: FW: Centredale Manor Superfund Site
Attachments: PE Certified Limits.pdf

See below. 1 event what we got is what we will have.

Kyle R. Clay
Chemistry Department
Environmental Standards, Inc.
1140 Valley Forge Road • P.O. Box 810 • Valley Forge, PA 19482
610.935.5577 • Fax: 610.935.5583 • www.envstd.com • kclay@envstd.com

Environmental Standards was named to the 2009 Inc. 5000 list of the Fastest Growing Private Companies in America.

From: Christina Venable [mailto:clvenable@loureiro.com]
Sent: Tuesday, March 09, 2010 1:50 PM
To: Kyle Clay
Subject: RE: Centredale Manor Superfund Site

Kyle,

No, there was just the one sampling event. We collected additional filtered groundwater samples as a sort of back up to the unfiltered samples. We did not and do not plan to have them analyzed. When we submitted a request for quote to you, I believe we included the filtered samples in the request in case we did opt to have them analyzed. That's probably where the confusion is coming from. Here is a rundown of what we collected:

1138338uf - Groundwater sample
1138342uf - Duplicate groundwater sample of 1138338uf
1138339uf - Groundwater sample
1138343uf - Equipment blank sample
1138344 - Performance evaluation sample

I have attached a copy of the certified limits for the PE sample.

Please let me know if you have any other questions.

Thanks.

Christina Venable

-----Original Message-----
From: Kyle Clay [mailto:kclay@envstd.com]

Sent: Tuesday, March 09, 2010 11:52 AM
To: Christina Venable
Subject: RE: Centredale Manor Superfund Site

Is there another sampling event? It looks like fewer samples were collected than anticipated?

Kyle R. Clay
Chemistry Department
Environmental Standards, Inc.
1140 Valley Forge Road • P.O. Box 810 • Valley Forge, PA 19482
610.935.5577 • Fax: 610.935.5583 • www.envstd.com • kclay@envstd.com

Environmental Standards was named to the 2009 Inc. 5000 list of the Fastest Growing Private Companies in America.

From: Christina Venable [mailto:clvenable@loureiro.com]
Sent: Tuesday, March 02, 2010 3:53 PM
To: Kyle Clay
Subject: RE: Centredale Manor Superfund Site

Sure. Here they are.

Thanks.

Christina Venable

-----Original Message-----
From: Kyle Clay [mailto:kclay@envstd.com]
Sent: Monday, March 01, 2010 1:27 PM
To: Christina Venable
Subject: RE: Centredale Manor Superfund Site

Could you send the COC?

Kyle R. Clay
Chemistry Department
Environmental Standards, Inc.
1140 Valley Forge Road • P.O. Box 810 • Valley Forge, PA 19482
610.935.5577 • Fax: 610.935.5583 • www.envstd.com • kclay@envstd.com

Environmental Standards was named to the 2009 Inc. 5000 list of the Fastest Growing Private Companies in America.

From: Christina Venable [mailto:clvenable@loureiro.com]
Sent: Monday, March 01, 2010 1:19 PM
To: Kyle Clay
Subject: Centredale Manor Superfund Site

Hi Kyle,

I just wanted to give you a heads up that you should be receiving the data package from the lab (TestAmerica) for this project this week.

Thanks.

Christina Venable
Project Scientist
Loureiro Engineering Associates
100 Northwest Drive
Plainville, CT 06062
(860) 747-6181

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RTC | Certificate of Analysis

Sample # 1138344

Dioxin in Water -WS - Whole Volume

Number QCO-370
Lot 013092
Solvent (Matrix) Water
Hazard Irritant
Storage &Handling Store at 4°C. Allow to equilibrate to room temperature prior to opening.
Expiration Date See Sample Label
Certification Date: 2/3/2010
Certified By: Christopher Rucinski - QA Director

Analyte	*Units*	*Assigned [4] (Gravimetric) Value*	*Certified [1,4] Value*	*k [5]*	*Standard [2] Deviation*	*Acceptance Limits [3]*
2,3,7,8-TCDD 9606	pg/L	69.5 ± 0.605	61.5 ± 8.64	2.23	10.8	29.1 to 94.0

Additional Information

Description

This sample is a whole volume for the analysis of Dioxin in Water

Sample Preparation

The sample is ready for immediate analysis

1 Certified values are the robust statistical mean when prepared according to instructions from an Interlaboratory Study or are based on historic Interlaboratory Study Results (i.e. TNI Fields of PT Tables).
2 The standard deviation is the robust statistical standard deviation from the round robin interlaboratory study
3 Acceptance limits are based on US EPA RCRA, WS, and WP interlaboratory Study Results.
4 Expanded Uncertainty - All uncertainty values in this document expressed as ± value are expanded uncertainties.
5 k: Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Confidence interval = 95%

Traceability The standard was manufactured under an ISO 9001/17025 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.00001g and calibrated regularly using mass standards traceable to NIST. All dilutions were preformed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available

PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO 17025, ISO GUIDES 34 AND 35, and ILAC G13 2000

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request

3.384

R.T Corporation - 2931 Soldier Springs Rd - Laramie, WY 82070 - US
Phone (307) 742-5452 - Fax (307) 745-7936
An ISO 9001 registered company

ACCREDITED ISO Guide 34:2000 Reference Material Producer

ACCREDITED ISO/IEC 17025:2005 Testing Laboratory

ATTACHMENT A.4

Vendor-Certified Certificate of Analysis

Certificate of Analysis

Dioxin in Water -WS - Whole Volume

Number QCO-370
Lot 013092
Solvent (Matrix) Water
Hazard Irritant
Storage &Handling Store at 4ºC. Allow to equilibrate to room temperature prior to opening.
Expiration Date See Sample Label
Certification Date: 2/3/2010
Certified By: Christopher Rucinski - QA Director

Analyte	*Units*	*Assigned* [4] *(Gravimetric) Value*	*Certified* [1,4] *Value*	***k*** [5]	*Standard* [2] *Deviation*	*Acceptance Limits* [3]
2,3,7,8-TCDD 9606	pg/L	69.5 ± 0.605	61.5 ± 8.64	2.23	10.8	29.1 to 94.0

Additional Information

Description

This sample is a whole volume for the analysis of Dioxin in Water

Sample Preparation

The sample is ready for immediate analysis

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MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

3,384 1

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ACCREDITED ISO/IEC 17025:2005 Testing Laboratory Cert# 2122.02

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