TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

October 27, 2010

TestAmerica Project Number: G0J120429
PO/Contract: 2027.07

Ted Splitter
Tronox LLC / AIU Henderson, NV
PO Box 268859
Oklahoma City, OK 73126-8859

Dear Mr. Splitter,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on October 12, 2010. These samples are associated with your Tronox Henderson Air Monitoring 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) 374-4383.

Sincerely,

DAVID R. ALLTUCKER
Project Manager

880 Riverside Parkway West Sacramento, CA 95605 **tel** 916.373.5600 **fax** 916.372.1059 **www.testamericainc.com**

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TestAmerica West Sacramento Project Number G0J120429

Case Narrative

TestAmerica West Sacramento Project Number G0J120429

AIR, TO-13, Semivolatile Organics
Samples: 1, 4

The surrogate recoveries for 1,2-Dichlorobenzene-d4 were low and outside criteria. However, the surrogate recoveries in the associated method blank was within established control limits. The results may be biased low. The matrix effect was confirmed by re-analysis.

AIR, TO-9, Dioxins/Furans
Samples: 2, 5
Several analytes in each sample have been qualified with a "Q" flag due to the ion abundance ratios being 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 for these analytes.

The percent difference value for 1,2,3,4,7,8,9-HpCDF is above the method acceptance limit in the continuing calibration standard. This standard was analyzed after the associated samples. As the associated samples are non-detect and there is a potential for a high bias, there is no adverse impact on the data quality.

The result for 2, 3, 7, 8-TCDF is reported from the confirmation analysis that occurred on October 19, 2010.

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 G0J120429

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
L8Ak6	1	UW-10082010B	10/08/2010 18:11 PM	10/12/2010 08:45 AM
L8AK8	2	UW-10082010B	10/08/2010 18:05 PM	10/12/2010 08:45 AM
L8ALC	3	UW-10082010B	10/08/2010 18:16 PM	10/12/2010 08:45 AM
L8ALF	4	UW-10082010B	10/08/2010 18:30 PM	10/12/2010 08:45 AM
L8ALT	5	UW-10082010B	10/08/2010 18:35 PM	10/12/2010 08:45 AM
L8ALV	6	UW-10082010B	10/08/2010 18:34 PM	10/12/2010 08:45 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.

northgate
environmental management, inc.
300 Frank H. Ogawa Plaza, Ste 510
Oakland, CA 94612 (510) 839-0688

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

Page: of
Cooler # ___ 1 of 1

COC # 2027.07.0011
Total # of Samples: 10
Event Complete?

Required Ship to Lab:

Lab Name: Test America Laboratories Inc
Address: 880 Riverside Parkway
West Sacramento, CA 95605
Lab PM: David Alltucker
Phone/Fax: (916) 373-5600
Lab PM email: David.Alltucker@testamericainc.com
Applicable Lab Quote #:

Required Project Information:

Site ID #:102 TRONOX LLC. HENDERSON
Project # 2027.07
Site Address 560 W Lake Mead Pkwy
City Henderson State, Zip NV, 89015
Site PM Name Ted Splitter
Phone/Fax: (510) 435-4809
Site PM Email: Ted.Splitter@ngem.com

Required Invoice Information:

Send Invoice to: Susan Crowley Tronox LLC.
Address: PO Box 55
City/State. Henderson, NV 89009 Phone #: (949) 260-9293
PO #
Send EDD to Frank.Hagar@ngem.com
CC Hardcopy report to PDF Electronic Version Only -- FTP Upload
CC Hardcopy report to See Additional Comments Below

Regular | | | Rush | 5 day | Mark One

ITEM #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G=GRAB C=COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	Comments/Lab Sample I.D. Volume (m^3)	TO-9A/Dioxins, Furans	TO-13A/8270C/HCB	TSP	6020/As/ICPMS
	UW-10082010B		AA			10/8/2010	6:11 PM	1	547.03		X		
	UW-10082010B		AA			10/8/2010	6:05 PM	1	609.82	X			
	UW-10082010B		AA			10/8/2010	6:16 PM	1	828.9			X	X
	DW-10082010B		AA			10/8/2010	6:30 PM	1	635.39		X		
	DW-10082010B		AA			10/8/2010	6:35 PM	1	644.22	X			
	DW-10082010B		AA			10/8/2010	6:34 PM	1	979.8			X	X

Additional Comments/Special Instructions:

3-5 DAY TURN AROUND : Samples for TO-13 A near end of hold time. Collected end of day Friday, too late for shipping

						Sample Receipt Conditions			
Ronda S. Bailey	10/11/10	1200	Cheng Chee TAL WS	10/12/10	0920	4°C	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
						Temp in 0C	Samples on Ice?	Sample intact?	Trip Blank?

PRINT Name of SAMPLER: Ronda Bailey
SIGNATURE of SAMPLER: DATE Signed 10/11/10
Time: 1200

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Worthgate PM DA LOG # 67491

LOT# (QUANTIMS ID) G0J120429 QUOTE# 84087 LOCATION W14DAC

Checked (✓)

DATE RECEIVED 10/12/10 TIME RECEIVED 0845 ☑

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) 764159, 964160

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

COC #(S) 2027.07.0011 ☑

TEMPERATURE BLANK Observed: NA Corrected:

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 4 Average 4 Corrected Average 4

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☑ #5 ☐ ☐ OTHER ☑

CV 10/12/10
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 ☑

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

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

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

CV 10/12/10
Initials Date

Notes

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

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G0J120429

	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

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AIR, TO-13,
Semivolatile Organics

Northgate Environmental Management, Inc.

Sample ID: UW-10082010B

Trace Level Compounds

Lot - Sample #....:	G0J120429 - 001	**Work Order #....:**	L8AK61AA	**Matrix....:**	AA
Date Sampled....:	10/08/10	**Date Received....:**	10/12/10	**Dilution Factor....:**	1
Prep Date....:	10/12/10	**Analysis Date....:**	10/14/10	**Volume....:**	547.03
Prep Batch # ....:	0285254	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Steven Scott		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Hexachlorobenzene	ND	0.018	0.0024	ug/m3

SURROGATE	PERCENT RECOVERY		RECOVERY LIMITS
1,2-Dichlorobenzene-d4	26	*	60 - 120
2-Fluorobiphenyl	76		58 - 105
2-Fluorophenol	68		41 - 105
Nitrobenzene-d5	70		46 - 118
Phenol-d5	77		43 - 122
Terphenyl-d14	84		69 - 110
2,4,6-Tribromophenol	98		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

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Northgate Environmental Management, Inc.

Sample ID: DW-10082010B

Trace Level Compounds

Lot - Sample #....:	G0J120429 - 004	**Work Order #....:**	L8ALF1AA	**Matrix....:**	AA
Date Sampled....:	10/08/10	**Date Received....:**	10/12/10	**Dilution Factor....:**	1
Prep Date....:	10/12/10	**Analysis Date....:**	10/14/10	**Volume....:**	635.39
Prep Batch # ....:	0285254	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Steven Scott		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Hexachlorobenzene	**0.0088**	**J**	**0.016**	**0.0020**	**ug/m3**

SURROGATE	PERCENT RECOVERY		RECOVERY LIMITS
1,2-Dichlorobenzene-d4	29	*	60 - 120
2-Fluorobiphenyl	69		58 - 105
2-Fluorophenol	63		41 - 105
Nitrobenzene-d5	67		46 - 118
Phenol-d5	71		43 - 122
Terphenyl-d14	87		69 - 110
2,4,6-Tribromophenol	100		61 - 118

QUALIFIERS

*	Surrogate recovery is outside stated control limits.
J	Estimated Result.

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QC DATA ASSOCIATION SUMMARY

G0J120429

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AA	EPA-2 TO-13		0285254	
002	AA	EPA-2 TO-9		0285255	
003	AA	CFR50B APDX B		0291319	
	AA	SW846 6020		0288260	
004	AA	EPA-2 TO-13		0285254	
005	AA	EPA-2 TO-9		0285255	
006	AA	CFR50B APDX B		0291319	
	AA	SW846 6020		0288260	

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0J120000 - 254B	**Work Order #....:**	L8A5R1AA	**Matrix....:**	AIR
Date Sampled....:	10/08/10	**Date Received....:**	10/12/10	**Dilution Factor....:**	1
Prep Date....:	10/12/10	**Analysis Date....:**	10/14/10	**Volume....:**	0
Prep Batch # ....:	0285254	**Instrument ID....:**	5MH	**Method....:**	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Steven Scott		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Hexachlorobenzene	ND	10.0	1.3	ug

SURROGATE	PERCENT RECOVERY		RECOVERY LIMITS
1,2-Dichlorobenzene-d4	31	*	60 - 120
2-Fluorobiphenyl	64		58 - 105
2-Fluorophenol	54		41 - 105
Nitrobenzene-d5	62		46 - 118
Phenol-d5	59		43 - 122
Terphenyl-d14	85		69 - 110
2,4,6-Tribromophenol	91		61 - 118

QUALIFIERS

* Surrogate recovery is outside stated control limits.

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LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0J120429
Work Order # ...: L8A5R1AC-LCS
L8A5R1AD-LCSD
Matrix ....: AIR
LCS Lot-Sample# : G0J120000 - 254
Prep Date ......: 10/12/10
Analysis Date ..: 10/14/10
Prep Batch # ...: 0285254
Dilution Factor : 1
Analyst ID.....: Steven Scott
Instrument ID..: 5MH
Method.....: EPA-2 TO-13
Initial Wgt/Vol: 1 Sample

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Hexachlorobenzene	**100**	**91.8**	**ug**	**92**	**(70 - 110)**		
	100	**94.5**	**ug**	**94**	**(70 - 110)**	**2.9**	**(0 - 30)**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	83	(58 - 105)
	83	(58 - 105)
2-Fluorophenol	71	(41 - 105)
	69	(41 - 105)
Nitrobenzene-d5	75	(46 - 118)
	75	(46 - 118)
Phenol-d5	76	(43 - 122)
	73	(43 - 122)
Terphenyl-d14	88	(69 - 110)
	89	(69 - 110)
2,4,6-Tribromophenol	99	(61 - 118)
	94	(61 - 118)

Notes:

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

Bold print denotes control parameters

AIR, TO-9, Dioxins/Furans

Northgate Environmental Management, Inc.

Sample ID: UW-10082010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J120429 - 002
Work Order #....: L8AK81AA
Matrix....: AA
Date Sampled....: 10/08/10
Date Received....: 10/12/10
Instrument ID....: 4D5
Prep Date....: 10/12/10
Analysis Date....: 10/16/10
Volume....: 609.82
Prep Batch # ....: 0285255
Dilution Factor....: 2
Units.....: pg/m3
Initial Wgt/Vol : 1 Sample
Analyst ID....: Alora Kuczynski

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		20	1.0	0
Total TCDD	ND		20		0
1,2,3,7,8-PeCDD	ND		100	1.0	0
Total PeCDD	ND		100		0
1,2,3,4,7,8-HxCDD	ND		100	0.1	0
1,2,3,6,7,8-HxCDD	**1.2**	**J Q B**	**100**	**0.1**	**0.00020**
1,2,3,7,8,9-HxCDD	**1.3**	**J Q B**	**100**	**0.1**	**0.00021**
Total HxCDD	**8.0**		**100**		
1,2,3,4,6,7,8-HpCDD	**5.4**	**J Q B**	**100**	**0.01**	**0.000089**
Total HpCDD	**12**		**100**		
OCDD	**19**	**J B**	**200**	**0.0003**	**0.0000093**
2,3,7,8-TCDF	**10**	**J B**	**20**	**0.1**	**0.0016**
Total TCDF	**46**		**20**		
1,2,3,7,8-PeCDF	**6.5**	**J**	**100**	**0.03**	**0.00032**
2,3,4,7,8-PeCDF	ND		100	0.3	0
Total PeCDF	**20**		**100**		
1,2,3,4,7,8-HxCDF	**14**	**J B**	**100**	**0.1**	**0.0023**
1,2,3,6,7,8-HxCDF	**11**	**J B**	**100**	**0.1**	**0.0018**
2,3,4,6,7,8-HxCDF	**3.2**	**J Q B**	**100**	**0.1**	**0.00052**
1,2,3,7,8,9-HxCDF	**2.7**	**J B Q**	**100**	**0.1**	**0.00044**
Total HxCDF	**76**		**100**		
1,2,3,4,6,7,8-HpCDF	**45**	**J B**	**100**	**0.01**	**0.00074**
1,2,3,4,7,8,9-HpCDF	**14**	**J Q B**	**100**	**0.01**	**0.00023**
Total HpCDF	**84**		**100**		
OCDF	**100**	**J B**	**200**	**0.0003**	**0.000049**
Total TEQ Concentration					**0.0085**

Northgate Environmental Management, Inc.

Sample ID: UW-10082010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0J120429 - 002	**Work Order #....:**	L8AK81AA	**Matrix....:**	AA
Date Sampled....:	10/08/10	**Date Received....:**	10/12/10	**Instrument ID....:**	4D5
Prep Date....:	10/12/10	**Analysis Date....:**	10/16/10	**Volume....:**	609.82
Prep Batch # ....:	0285255	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	84	50 - 120
13C-1,2,3,7,8-PeCDD	80	50 - 120
13C-1,2,3,6,7,8-HxCDD	92	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	86	40 - 120
13C-OCDD	87	40 - 120
13C-2,3,7,8-TCDF	84	50 - 120
13C-1,2,3,7,8-PeCDF	90	50 - 120
13C-1,2,3,4,7,8-HxCDF	70	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	78	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	104	50 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

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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Northgate Environmental Management, Inc.

Sample ID: UW-10082010B

Trace Level Compounds

Lot - Sample #....:	G0J120429 - 002	**Work Order #....:**	L8AK81AA	**Matrix....:**	AA
Date Sampled....:	10/08/10	**Date Received....:**	10/12/10	**Dilution Factor....:**	2
Prep Date....:	10/12/10	**Analysis Date....:**	10/16/10	**Volume....:**	609.82
Prep Batch # ....:	0285255	**Instrument ID....:**	4D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		0.033	0.0033	pg/m3
Total TCDD	ND		0.033	0.0033	pg/m3
1,2,3,7,8-PeCDD	ND		0.16	0.0069	pg/m3
Total PeCDD	ND		0.16	0.0069	pg/m3
1,2,3,4,7,8-HxCDD	ND		0.16	0.0020	pg/m3
1,2,3,6,7,8-HxCDD	**0.0019**	**J Q B**	**0.16**	**0.0018**	**pg/m3**
1,2,3,7,8,9-HxCDD	**0.0021**	**J Q B**	**0.16**	**0.0016**	**pg/m3**
Total HxCDD	**0.013**		**0.16**	**0.0018**	**pg/m3**
1,2,3,4,6,7,8-HpCDD	**0.0089**	**J Q B**	**0.16**	**0.0025**	**pg/m3**
Total HpCDD	**0.019**		**0.16**	**0.0025**	**pg/m3**
OCDD	**0.032**	**J B**	**0.33**	**0.0033**	**pg/m3**
2,3,7,8-TCDF	**0.017**	**J B**	**0.033**	**0.0016**	**pg/m3**
Total TCDF	**0.075**		**0.033**	**0.0016**	**pg/m3**
1,2,3,7,8-PeCDF	**0.011**	**J**	**0.16**	**0.0051**	**pg/m3**
2,3,4,7,8-PeCDF	ND		0.16	0.0052	pg/m3
Total PeCDF	**0.033**		**0.16**	**0.0051**	**pg/m3**
1,2,3,4,7,8-HxCDF	**0.024**	**J B**	**0.16**	**0.0021**	**pg/m3**
1,2,3,6,7,8-HxCDF	**0.018**	**J B**	**0.16**	**0.0021**	**pg/m3**
2,3,4,6,7,8-HxCDF	**0.0052**	**J Q B**	**0.16**	**0.0021**	**pg/m3**
1,2,3,7,8,9-HxCDF	**0.0044**	**J B Q**	**0.16**	**0.0025**	**pg/m3**
Total HxCDF	**0.12**		**0.16**	**0.0021**	**pg/m3**
1,2,3,4,6,7,8-HpCDF	**0.075**	**J B**	**0.16**	**0.0031**	**pg/m3**
1,2,3,4,7,8,9-HpCDF	**0.023**	**J Q B**	**0.16**	**0.0039**	**pg/m3**
Total HpCDF	**0.14**		**0.16**	**0.0034**	**pg/m3**
OCDF	**0.17**	**J B**	**0.33**	**0.0039**	**pg/m3**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	84	50 - 120
13C-1,2,3,7,8-PeCDD	80	50 - 120
13C-1,2,3,6,7,8-HxCDD	92	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	86	40 - 120
13C-OCDD	87	40 - 120
13C-2,3,7,8-TCDF	84	50 - 120
13C-1,2,3,7,8-PeCDF	90	50 - 120
13C-1,2,3,4,7,8-HxCDF	70	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	78	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	104	50 - 120

Northgate Environmental Management, Inc.

Sample ID: UW-10082010B

Trace Level Compounds

Lot - Sample #....:	G0J120429 - 002	**Work Order #....:**	L8AK81AA	**Matrix....:**	AA
Date Sampled....:	10/08/10	**Date Received....:**	10/12/10	**Dilution Factor....:**	2
Prep Date....:	10/12/10	**Analysis Date....:**	10/16/10	**Volume....:**	609.82
Prep Batch # ....:	0285255	**Instrument ID....:**	4D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Alora Kuczynski		

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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Northgate Environmental Management, Inc.

Sample ID: DW-10082010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0J120429 - 005	**Work Order #....:**	L8ALT1AA	**Matrix....:**	AA
Date Sampled....:	10/08/10	**Date Received....:**	10/12/10	**Instrument ID....:**	4D5
Prep Date....:	10/12/10	**Analysis Date....:**	10/18/10	**Volume....:**	644.22
Prep Batch # ....:	0285255	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Alora Kuczynski		

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	7.9	J	20	1.0	0.012
Total TCDD	160		20		
1,2,3,7,8-PeCDD	18	J Q	100	1.0	0.028
Total PeCDD	140		100		
1,2,3,4,7,8-HxCDD	15	J B	100	0.1	0.0023
1,2,3,6,7,8-HxCDD	27	J B	100	0.1	0.0042
1,2,3,7,8,9-HxCDD	23	J B	100	0.1	0.0036
Total HxCDD	190		100		
1,2,3,4,6,7,8-HpCDD	100	B	100	0.01	0.0016
Total HpCDD	160		100		
OCDD	140	J B	200	0.0003	0.000065
2,3,7,8-TCDF	150	CON	20	0.1	0.023
Total TCDF	2100		20		
1,2,3,7,8-PeCDF	300	B	100	0.03	0.014
2,3,4,7,8-PeCDF	140	B	100	0.3	0.065
Total PeCDF	1900		100		
1,2,3,4,7,8-HxCDF	400	B	100	0.1	0.062
1,2,3,6,7,8-HxCDF	440	B	100	0.1	0.068
2,3,4,6,7,8-HxCDF	94	J B	100	0.1	0.015
1,2,3,7,8,9-HxCDF	92	J B	100	0.1	0.014
Total HxCDF	3000		100		
1,2,3,4,6,7,8-HpCDF	1800	B	100	0.01	0.028
1,2,3,4,7,8,9-HpCDF	780	B	100	0.01	0.012
Total HpCDF	3600		100		
OCDF	4000	B	200	0.0003	0.0019
Total TEQ Concentration					0.35

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Northgate Environmental Management, Inc.

Sample ID: DW-10082010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....:	G0J120429 - 005	**Work Order #....:**	L8ALT1AA	**Matrix....:**	AA
Date Sampled....:	10/08/10	**Date Received....:**	10/12/10	**Instrument ID....:**	4D5
Prep Date....:	10/12/10	**Analysis Date....:**	10/18/10	**Volume....:**	644.22
Prep Batch # ....:	0285255	**Dilution Factor....:**	2	**Units.....:**	pg/m3
Initial Wgt/Vol :	1 Sample	**Analyst ID....:**	Alora Kuczynski		

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	92	50 - 120
13C-1,2,3,7,8-PeCDD	98	50 - 120
13C-1,2,3,6,7,8-HxCDD	97	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	93	40 - 120
13C-OCDD	105	40 - 120
13C-2,3,7,8-TCDF	88	50 - 120
13C-1,2,3,7,8-PeCDF	99	50 - 120
13C-1,2,3,4,7,8-HxCDF	78	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	92	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	104	50 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

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.
CON	Confirmation analysis.
J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

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Northgate Environmental Management, Inc.

Sample ID: DW-10082010B

Trace Level Compounds

Lot - Sample #....: G0J120429 - 005
Work Order #....: L8ALT1AA
Matrix....: AA
Date Sampled....: 10/08/10
Date Received....: 10/12/10
Dilution Factor....: 2
Prep Date....: 10/12/10
Analysis Date....: 10/18/10
Volume....: 644.22
Prep Batch # ....: 0285255
Instrument ID....: 4D5
Method....: EPA-2 TO-9
Initial Wgt/Vol....: 1 Sample
Analyst ID....: Alora Kuczynski

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	0.012	J	0.031	0.0026	pg/m3
Total TCDD	0.25		0.031	0.0026	pg/m3
1,2,3,7,8-PeCDD	0.027	J Q	0.16	0.0098	pg/m3
Total PeCDD	0.22		0.16	0.0098	pg/m3
1,2,3,4,7,8-HxCDD	0.024	J B	0.16	0.0023	pg/m3
1,2,3,6,7,8-HxCDD	0.042	J B	0.16	0.0020	pg/m3
1,2,3,7,8,9-HxCDD	0.035	J B	0.16	0.0020	pg/m3
Total HxCDD	0.29		0.16	0.0022	pg/m3
1,2,3,4,6,7,8-HpCDD	0.16	B	0.16	0.0050	pg/m3
Total HpCDD	0.25		0.16	0.0050	pg/m3
OCDD	0.22	J B	0.31	0.0079	pg/m3
2,3,7,8-TCDF	0.23	CON	0.031	0.0043	pg/m3
Total TCDF	3.2		0.031	0.0067	pg/m3
1,2,3,7,8-PeCDF	0.46	B	0.16	0.022	pg/m3
2,3,4,7,8-PeCDF	0.22	B	0.16	0.022	pg/m3
Total PeCDF	3.0		0.16	0.022	pg/m3
1,2,3,4,7,8-HxCDF	0.63	B	0.16	0.012	pg/m3
1,2,3,6,7,8-HxCDF	0.69	B	0.16	0.011	pg/m3
2,3,4,6,7,8-HxCDF	0.15	J B	0.16	0.012	pg/m3
1,2,3,7,8,9-HxCDF	0.14	J B	0.16	0.013	pg/m3
Total HxCDF	4.6		0.16	0.012	pg/m3
1,2,3,4,6,7,8-HpCDF	2.8	B	0.16	0.019	pg/m3
1,2,3,4,7,8,9-HpCDF	1.2	B	0.16	0.022	pg/m3
Total HpCDF	5.6		0.16	0.020	pg/m3
OCDF	6.2	B	0.31	0.0048	pg/m3

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	92	50 - 120
13C-1,2,3,7,8-PeCDD	98	50 - 120
13C-1,2,3,6,7,8-HxCDD	97	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	93	40 - 120
13C-OCDD	105	40 - 120
13C-2,3,7,8-TCDF	88	50 - 120
13C-1,2,3,7,8-PeCDF	99	50 - 120
13C-1,2,3,4,7,8-HxCDF	78	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	92	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	104	50 - 120

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Northgate Environmental Management, Inc.

Sample ID: DW-10082010B

Trace Level Compounds

Lot - Sample #....:	G0J120429 - 005	**Work Order #....:**	L8ALT1AA	**Matrix....:**	AA
Date Sampled....:	10/08/10	**Date Received....:**	10/12/10	**Dilution Factor....:**	2
Prep Date....:	10/12/10	**Analysis Date....:**	10/18/10	**Volume....:**	644.22
Prep Batch # ....:	0285255	**Instrument ID....:**	4D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Alora Kuczynski		

QUALIFIERS

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

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QC DATA ASSOCIATION SUMMARY

G0J120429

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AA	EPA-2 TO-13		0285254	
002	AA	EPA-2 TO-9		0285255	
003	AA	CFR50B APDX B		0291319	
	AA	SW846 6020		0288260	
004	AA	EPA-2 TO-13		0285254	
005	AA	EPA-2 TO-9		0285255	
006	AA	CFR50B APDX B		0291319	
	AA	SW846 6020		0288260	

Method Blank Report

Trace Level Compounds

Lot - Sample #....: G0J120000 - 255B
Date Sampled....: 10/08/10
Prep Date....: 10/12/10
Prep Batch # ....: 0285255
Initial Wgt/Vol....: 1 Sample

Work Order #....: L8A5X1AA
Date Received....: 10/12/10
Analysis Date....: 10/16/10
Instrument ID....: 4D5
Analyst ID....: Alora Kuczynski

Matrix....: AIR
Dilution Factor....: 2
Volume....: 0
Method....: EPA-2 TO-9

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		20	1.5	pg
Total TCDD	ND		20	1.5	pg
1,2,3,7,8-PeCDD	ND		100	3.6	pg
Total PeCDD	ND		100	3.6	pg
1,2,3,4,7,8-HxCDD	**1.9**	**J Q**	**100**	**1.2**	**pg**
1,2,3,6,7,8-HxCDD	**3.4**	**J Q**	**100**	**1.1**	**pg**
1,2,3,7,8,9-HxCDD	**2.2**	**J Q**	**100**	**1.0**	**pg**
Total HxCDD	**11**		**100**	**1.1**	**pg**
1,2,3,4,6,7,8-HpCDD	**4.2**	**J**	**100**	**1.8**	**pg**
Total HpCDD	**7.6**		**100**	**1.8**	**pg**
OCDD	**13**	**J**	**200**	**1.7**	**pg**
2,3,7,8-TCDF	ND		20	1.0	pg
Total TCDF	ND		20	1.0	pg
1,2,3,7,8-PeCDF	ND		100	1.5	pg
2,3,4,7,8-PeCDF	ND		100	1.6	pg
Total PeCDF	ND		100	1.6	pg
1,2,3,4,7,8-HxCDF	**2.9**	**J**	**100**	**0.90**	**pg**
1,2,3,6,7,8-HxCDF	**2.6**	**J Q**	**100**	**0.85**	**pg**
2,3,4,6,7,8-HxCDF	**2.0**	**J Q**	**100**	**0.88**	**pg**
1,2,3,7,8,9-HxCDF	**2.0**	**J Q**	**100**	**0.99**	**pg**
Total HxCDF	**13**		**100**	**0.90**	**pg**
1,2,3,4,6,7,8-HpCDF	**4.2**	**J Q**	**100**	**1.4**	**pg**
1,2,3,4,7,8,9-HpCDF	**4.0**	**J Q**	**100**	**1.7**	**pg**
Total HpCDF	**8.2**		**100**	**1.5**	**pg**
OCDF	**3.1**	**J Q**	**200**	**1.8**	**pg**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	99	50 - 120
13C-1,2,3,7,8-PeCDD	98	50 - 120
13C-1,2,3,6,7,8-HxCDD	93	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	91	40 - 120
13C-OCDD	92	40 - 120
13C-2,3,7,8-TCDF	95	50 - 120
13C-1,2,3,7,8-PeCDF	109	50 - 120
13C-1,2,3,4,7,8-HxCDF	76	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	85	40 - 120

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	105	50 - 120

Method Blank Report

Trace Level Compounds

Lot - Sample #....:	G0J120000 - 255B	**Work Order #....:**	L8A5X1AA	**Matrix....:**	AIR
Date Sampled....:	10/08/10	**Date Received....:**	10/12/10	**Dilution Factor....:**	2
Prep Date....:	10/12/10	**Analysis Date....:**	10/16/10	**Volume....:**	0
Prep Batch # ....:	0285255	**Instrument ID....:**	4D5	**Method....:**	EPA-2 TO-9
Initial Wgt/Vol....:	1 Sample	**Analyst ID....:**	Alora Kuczynski		

QUALIFIERS

J	Estimated Result.
Q	Estimated maximum possible concentration (EMPC).

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LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0J120429 **Work Order # ...:** L8A5X1AC-LCS **Matrix ....:** AIR
L8A5X1AD-LCSD
LCS Lot-Sample# : G0J120000 - 255
Prep Date ......: 10/12/10 **Analysis Date ..:** 10/18/10
Prep Batch # ...: 0285255
Dilution Factor : 2
Analyst ID.....: Alora Kuczynski **Instrument ID..:** 4D5 **Method.....:** EPA-2 TO-9
Initial Wgt/Vol: 1 Sample

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
2,3,7,8-TCDD	400	356	pg	89	(70 - 130)		
	400	380	pg	95	(70 - 130)	6.5	(0 - 30)
1,2,3,7,8-PeCDD	2000	2030	pg	101	(70 - 130)		
	2000	2160	pg	108	(70 - 130)	6.1	(0 - 30)
1,2,3,4,7,8-HxCDD	2000	2020	pg	101	(70 - 130)		
	2000	2090	pg	105	(70 - 130)	3.8	(0 - 30)
1,2,3,6,7,8-HxCDD	2000	2030	pg	101	(70 - 130)		
	2000	2130	pg	106	(70 - 130)	4.9	(0 - 30)
1,2,3,7,8,9-HxCDD	2000	2140	pg	107	(70 - 130)		
	2000	2230	pg	111	(70 - 130)	3.9	(0 - 30)
1,2,3,4,6,7,8-HpCDD	2000	2040	pg	102	(70 - 130)		
	2000	2090	pg	104	(70 - 130)	2.2	(0 - 30)
OCDD	4000	4100	pg	102	(70 - 130)		
	4000	4270	pg	107	(70 - 130)	4.2	(0 - 30)
2,3,7,8-TCDF	400	381	pg	95	(70 - 130)		
	400	418	pg	105	(70 - 130)	9.4	(0 - 30)
1,2,3,7,8-PeCDF	2000	1940	pg	97	(70 - 130)		
	2000	1980	pg	99	(70 - 130)	2.0	(0 - 30)
2,3,4,7,8-PeCDF	2000	1940	pg	97	(70 - 130)		
	2000	1920	pg	96	(70 - 130)	1.0	(0 - 30)
1,2,3,4,7,8-HxCDF	2000	1960	pg	98	(70 - 130)		
	2000	2060	pg	103	(70 - 130)	5.0	(0 - 30)
1,2,3,6,7,8-HxCDF	2000	2150	pg	108	(70 - 130)		
	2000	2320	pg	116	(70 - 130)	7.6	(0 - 30)
2,3,4,6,7,8-HxCDF	2000	2240	pg	112	(70 - 130)		
	2000	2230	pg	112	(70 - 130)	0.61	(0 - 30)
1,2,3,7,8,9-HxCDF	2000	2170	pg	108	(70 - 130)		
	2000	2200	pg	110	(70 - 130)	1.7	(0 - 30)
1,2,3,4,6,7,8-HpCDF	2000	2230	pg	111	(70 - 130)		
	2000	2350	pg	118	(70 - 130)	5.3	(0 - 30)
1,2,3,4,7,8,9-HpCDF	2000	2430	pg	122	(70 - 130)		
	2000	2420	pg	121	(70 - 130)	0.74	(0 - 30)
OCDF	4000	3890	pg	97	(70 - 130)		
	4000	4190	pg	105	(70 - 130)	7.6	(0 - 30)

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	89	(50 - 120)
	86	(50 - 120)
13C-1,2,3,7,8-PeCDD	97	(50 - 120)
	90	(50 - 120)
13C-1,2,3,6,7,8-HxCDD	92	(50 - 120)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0J120429
LCS Lot-Sample# : G0J120000 - 255
Work Order # ...: L8A5X1AC-LCS
L8A5X1AD-LCSD
Matrix ....: AIR

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
	88	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDD	92	(40 - 120)
	83	(40 - 120)
13C-OCDD	109	(40 - 120)
	88	(40 - 120)
13C-2,3,7,8-TCDF	79	(50 - 120)
	76	(50 - 120)
13C-1,2,3,7,8-PeCDF	93	(50 - 120)
	86	(50 - 120)
13C-1,2,3,4,7,8-HxCDF	79	(50 - 120)
	75	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDF	88	(40 - 120)
	79	(40 - 120)

Notes:

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

Bold print denotes control parameters

AIR, Metals

Northgate Environmental Management, Inc.

Sample ID: UW-10082010B

Trace Level Compounds

Lot - Sample #....:	G0J120429 - 003	**Work Order #....:**	L8ALC1AD	**Matrix....:**	AA
Date Sampled....:	10/08/10	**Date Received....:**	10/12/10	**Dilution Factor....:**	1
Prep Date....:	10/15/10	**Analysis Date....:**	10/15/10	**Volume....:**	828.9
Prep Batch # ....:	0288260	**Instrument ID....:**	M02	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Brian Jones		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	**0.0016**	**B J**	**0.0029**	**0.00059**	**ug/m3**
Manganese	**0.204**	**J**	**0.00145**	**0.000205**	**ug/m3**

QUALIFIERS

B	Estimated result. Result is less than RL and greater than or equal to the IDL.
J	Estimated Result.

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Northgate Environmental Management, Inc.

Sample ID: DW-10082010B

Trace Level Compounds

Lot - Sample #....:	G0J120429 - 006	**Work Order #....:**	L8ALV1AC	**Matrix....:**	AA
Date Sampled....:	10/08/10	**Date Received....:**	10/12/10	**Dilution Factor....:**	1
Prep Date....:	10/15/10	**Analysis Date....:**	10/15/10	**Volume....:**	979.8
Prep Batch # ....:	0288260	**Instrument ID....:**	M02	**Method....:**	SW846 6020
Initial Wgt/Vol....:	0.08333 L	**Analyst ID....:**	Brian Jones		

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	**0.0017**	**B J**	**0.0024**	**0.00050**	**ug/m3**
Manganese	**0.573**	**J**	**0.00122**	**0.000174**	**ug/m3**

QUALIFIERS

B Estimated result. Result is less than RL and greater than or equal to the IDL.

J Estimated Result.

\\qsacsql1\QDSApps\Air\Air_Reports_ug-m3.rpt 10/22/2010

QC DATA ASSOCIATION SUMMARY

G0J120429

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
003	AA	SW846 6020		0288260	
006	AA	SW846 6020		0288260	

Method Blank Report

Trace Level Compounds

Lot - Sample #....: G0J150000 - 260B
Date Sampled....: 10/08/10
Prep Date....: 10/15/10
Prep Batch # ....: 0288260
Initial Wgt/Vol....: 0.08333 L

Work Order #....: L8JKE1AA
Date Received....: 10/12/10
Analysis Date....: 10/15/10
Instrument ID....: M02
Analyst ID....: Brian Jones

Matrix....: AIR
Dilution Factor....: 1
Volume....: 0
Method....: SW846 6020

PARAMETER	RESULT		REPORTING LIMIT	DETECTION LIMIT	UNITS
Arsenic	1.2	B	2.4	0.49	ug
Manganese	0.41	B	1.2	0.17	ug

QUALIFIERS

B Estimated result. Result is less than RL and greater than or equal to the IDL.

\\qsacsql1\QDSApps\Air\Air_Reports_ug-m3.rpt 10/22/2010

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0J120429
LCS Lot-Sample# : G0J150000 - 260
Prep Date ......: 10/15/10
Prep Batch # ...: 0288260
Dilution Factor : 1
Analyst ID.....: Brian Jones
Initial Wgt/Vol: 0.08333 L

Work Order # ...: L8JKE1AD-LCS
L8JKE1AE-LCSD
Analysis Date ..: 10/15/10

Instrument ID..: M02

Matrix ....: AIR

Method.....: SW846 6020

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Arsenic	**240**	**218**	**ug**	**91**	**(86 - 110)**		
	240	**221**	**ug**	**92**	**(86 - 110)**	**0.91**	**(0 - 15)**
Manganese	**240**	**229**	**ug**	**95**	**(88 - 110)**		
	240	**232**	**ug**	**97**	**(88 - 110)**	**1.1**	**(0 - 15)**

Notes:

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

Bold print denotes control parameters

AIR, TSP

Northgate Environmental Management, Inc.

Sample ID: UW-10082010B

Trace Level Compounds

Lot - Sample #....:	G0J120429 - 003	**Work Order #....:**	L8ALC1AA	**Matrix....:**	AA
Date Sampled....:	10/08/10	**Date Received....:**	10/12/10	**Dilution Factor....:**	1
Prep Date....:	10/14/10	**Analysis Date....:**	10/15/10	**Volume....:**	828.9
Prep Batch # ....:	0291319	**Instrument ID....:**	QA-45	**Method....:**	CFR50B APDX B
Initial Wgt/Vol....:	0	**Analyst ID....:**	Steve Valmores		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Total Suspended Particulates	**0.0000344**	**0.000000603**	**--**	**g/m3**

QUALIFIERS

\\qsacsql1\QDSApps\Air\Air_Reports_ug-m3.rpt 10/22/2010

Northgate Environmental Management, Inc.

Sample ID: DW-10082010B

Trace Level Compounds

Lot - Sample #....:	G0J120429 - 006	**Work Order #....:**	L8ALV1AA	**Matrix....:**	AA
Date Sampled....:	10/08/10	**Date Received....:**	10/12/10	**Dilution Factor....:**	1
Prep Date....:	10/14/10	**Analysis Date....:**	10/15/10	**Volume....:**	979.8
Prep Batch # ....:	0291319	**Instrument ID....:**	QA-45	**Method....:**	CFR50B APDX B
Initial Wgt/Vol....:		**Analyst ID....:**	Steve Valmores		

PARAMETER	RESULT	REPORTING LIMIT	DETECTION LIMIT	UNITS
Total Suspended Particulates	**0.0000348**	**0.000000510**	**--**	**g/m3**

QUALIFIERS

\\qsacsql1\QDSApps\Air\Air_Reports_ug-m3.rpt 10/22/2010

QC DATA ASSOCIATION SUMMARY

G0J120429

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
003	AA	CFR50B APDX B		0291319	
006	AA	CFR50B APDX B		0291319	

AIR, TO-13, Semivolatile Organics

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

8270C CCV Checklist

Instrument: SV5

ICAL Date: 10/02/10

DFTPP ID: DFT1014a

Initiator/Date: SRS-10/14/10

Standard ID: HSL1014a

Reviewer/Date: 10/14/10

NCM #:

I: 8270C Criteria

	Initiated	Reviewed
Log Book page included.	☒	☑
CCV compared to correct ICAL.	☒	☑
Tune documentation is present and meets criteria.	☒	☑
Manual re-integrations are checked, initialed and hardcopies included.	☒	☑
Retention time correct for Isomers and all other analytes.	☒	☑
CCV Internal Standards are within 50-200% of ICAL mid-point.	☒	☑
Samples analyzed within 12 hours of Tune time.	☒	☑
Tailing and degradation criteria are met.	☒	☑
Spot check manual integrations in Target. Analyte checked: Pyridine	NA	☑
Non-CCC ≤ 50% D	☒	☑

II: 8270C SPCC Check

SPCC RRFs must be greater than 0.050

	Initiated	Reviewed		Initiated	Reviewed
N-nitroso-di-n-propylamine	☒	☑	2,4-Dinitrophenol	☒	☑
Hexachlorocyclopentadiene	☒	☑	4-Nitrophenol	☒	☑

III: 8270C CCC Check

CCC must be ≤ 20%D (If CCC are not targets, all analytes must be <20%D.)

	Initiated	Reviewed		Initiated	Reviewed
Phenol	☒	☑	Acenaphthene	☒	☑
1,4-Dichlorobenzene	☒	☑	N-nitrosodiphenylamine	☒	☑
2-Nitrophenol	☒	☑	Pentachlorophenol	☒	☑
2,4-Dinitrophenol	☒	☑	Flouranthene	☒	☑
Hexachlorobutadiene	☒	☑	Di-n-octyl phthalate	☒	☑
4-Chloro-3-methylphenol	☒	☑	Benzo(a)pyrene	☒	☑
2,4,6-Trichlorophenol	☒	☑			

IV: AFCEE 3.1 and 4.0 QAPP Criteria

	Initiated	Reviewed
All analytes in CCV +/- 20%D compared to ICAL.	☒	☑
CCV and Sample Internal Standards are within 50-200% of ICAL mid-point.	☒	☑
Are the compounds which required manual integrations documented in the MI spreadsheet?	☒	☑

West Sacramento

8270C CCV Checklist

V: DOD QSM V3 Criteria

	Initiated	Reviewed
For 8270, CCCs must be ≤ 20% D.	☒	☐
RRFs for SPCCs must meet minimum response factor criteria	☒	☐
CCV and sample Internal Standards are within 50-200% of ICAL mid-point.	☒	☐
SIM: All analytes must be ≤ 20%	☐NA	☐
Are the compounds which required manual integrations documented in the MI spreadsheet?	☒	☐

Notes:

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GC/MS INSTRUMENT LOG
SEMI-VOLATILES

Method Key (MTH Column)
QL = EPA 8270C (WS-MS-0005)
JZ = EPA TO-13A (WS-MS-0005)
VX = EPA 8270C-SIM (mod) CWM (WS-MS-0003)
QI = EPA 8270C-SIM (WS-MS-0008)
FX = PAH-SIM Isotope Dilution (WS-MS-0006)
F9 = EPA 8270C-SIM (mod) 1,4-Dioxane (WS-MS-0011)

Inst ID : sv5.i
Batch ID : 101410a.B
ICAL Date: See Calib Report
See raw data for standard IDs

Date	Time	USER	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	MTH	Comments
14-OCT-2010	14:24	srs	DFTPP 50ug/ml	DFT1014a.	NA	NA	NA		
14-OCT-2010	14:50	srs	HSL_050 ug/ml CS-4	HSL1014a.	NA	NA	NA		
14-OCT-2010	15:39	srs	L7VVM1AA G0J010000-373B	S101401.D	1000 Sa	1 mL	1	JZ	Confirmation
14-OCT-2010	16:04	srs	L79L71AC G0J110000-217C	S101402.D	1000 Sa	1 mL	1	JZ	↓
14-OCT-2010	16:29	srs	L79L71AD G0J110000-217L	S101403.D	1000 Sa	1 mL	1	JZ	↓
14-OCT-2010	16:54	srs	L78WJ1AA G0J090500-9	S101404.D	1000 Sa	1 mL	1	JZ	↓
14-OCT-2010	17:19	srs	L78WK1AA G0J090500-10	S101405.D	1000 Sa	1 mL	1	JZ	↓
14-OCT-2010	17:44	srs	L7QPG1CP G0I300460-9	S101406.D	30 g	1 mL	1	QL	
14-OCT-2010	18:09	srs	L8AT31AA G0J120000-204B	S101407.D	30 g	1 mL	1	QL	
14-OCT-2010	18:34	srs	L8AT31AH G0J120000-204B	S101408.D	30 g	1 mL	1	QL	
14-OCT-2010	18:59	srs	L8AT31AC G0J120000-204C	S101409.D	30 g	1 mL	1	QL	
14-OCT-2010	19:24	srs	L8AT31AJ G0J120000-204C	S101410.D	30 g	1 mL	1	QL	
14-OCT-2010	19:49	srs	L71TQ1AA G0J050503-1	S101411.D	30 g	1 mL	1	QL	
14-OCT-2010	20:14	srs	L71TQ1A2 G0J050503-1S	S101412.D	30 g	1 mL	1	QL	
14-OCT-2010	20:39	srs	L71TQ1A3 G0J050503-1D	S101413.D	30 g	1 mL	1	QL	RT: ↓ Surr
14-OCT-2010	21:03	srs	L8A5R1AA G0J120000-254B	S101414.D	1000 Sa	1 mL	1	JZ	IS Surr ↑
14-OCT-2010	21:28	srs	L8A5R1AC G0J120000-254C	S101415.D	1000 Sa	1 mL	1	JZ	5/10/15/10 Surr ↑
14-OCT-2010	21:53	srs	L8A5R1AD G0J120000-254L	S101416.D	1000 Sa	1 mL	1	JZ	↓
14-OCT-2010	22:18	srs	L8AK61AA G0J120429-1	S101417.D	1000 Sa	1 mL	1	JZ	↓
14-OCT-2010	22:43	srs	L8ALF1AA G0J120429-4	S101418.D	1000 Sa	1 mL	1	JZ	↓
14-OCT-2010	23:08	srs	L8A5R1AA G0J120000-254B	S101419.D	1000 Sa	1 mL	1	JZ	Confirmation
14-OCT-2010	23:33	srs	L8A5R1AC G0J120000-254C	S101420.D	1000 Sa	1 mL	1	JZ	↓
14-OCT-2010	23:58	srs	L8A5R1AD G0J120000-254L	S101421.D	1000 Sa	1 mL	1	JZ	↓
15-OCT-2010	00:23	srs	L8AK61AA G0J120429-1	S101422.D	1000 Sa	1 mL	1	JZ	↓
15-OCT-2010	00:48	srs	L8ALF1AA G0J120429-4	S101423.D	1000 Sa	1 mL	1	JZ	↓
15-OCT-2010	09:04	srs	L7GME1AC G0I240506-3 1X GPC	S101424.D	30 g	1 mL	1	QL	

Report Date: 14-Oct-2010 15:24

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 14-OCT-2010 14:50
Lab File ID: HSL1014a.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010
Analysis Type: Init. Cal. Times: 17:32 15:00
Lab Sample ID: HSL_050 ug/ml CS-4 Quant Type: ISTD
Method: \\SV5\C\chem\sv5.i\101410a.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 7 2-Fluorophenol	1.40992	1.40007	1.40007	0.010	-0.69877	50.00000	Averaged
$ 8 Phenol-d5	1.77296	1.76928	1.76928	0.010	-0.20770	50.00000	Averaged
$ 9 2-Chlorophenol-d4	1.55698	1.53680	1.53680	0.010	-1.29659	50.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.98513	0.99321	0.99321	0.010	0.82010	50.00000	Averaged
$ 11 Nitrobenzene-d5	0.33879	0.33976	0.33976	0.010	0.28625	50.00000	Averaged
$ 12 2-Fluorobiphenyl	1.28852	1.31715	1.31715	0.010	2.22150	50.00000	Averaged
$ 13 2,4,6-Tribromophenol	0.17381	0.19193	0.19193	0.010	10.42316	50.00000	Averaged
$ 14 Terphenyl-d14	0.78789	0.80729	0.80729	0.010	2.46205	50.00000	Averaged
15 N-Nitrosodimethylamine	0.92154	0.90246	0.90246	0.010	-2.07114	50.00000	Averaged
16 Pyridine	1.54111	1.52704	1.52704	0.010	-0.91316	50.00000	Averaged
23 Aniline	2.25673	2.21411	2.21411	0.010	-1.88842	50.00000	Averaged
24 Phenol	2.03729	1.99927	1.99927	0.010	-1.86586	20.00000	Averaged
26 Bis(2-chloroethyl)ether	1.42859	1.39656	1.39656	0.010	-2.24252	50.00000	Averaged
27 2-Chlorophenol	1.56381	1.50956	1.50956	0.010	-3.46900	50.00000	Averaged
28 1,3-Dichlorobenzene	1.70337	1.69613	1.69613	0.010	-0.42547	50.00000	Averaged
29 1,4-Dichlorobenzene	1.78118	1.79244	1.79244	0.010	0.63242	20.00000	Averaged
30 Benzyl Alcohol	1.05101	1.04832	1.04832	0.010	-0.25582	50.00000	Averaged
31 1,2-Dichlorobenzene	1.63746	1.62496	1.62496	0.010	-0.76388	50.00000	Averaged
32 2-Methylphenol	1.43012	1.41792	1.41792	0.010	-0.85321	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	2.27365	2.14832	2.14832	0.010	-5.51237	50.00000	Averaged
34 4-Methylphenol	1.51904	1.46324	1.46324	0.010	-3.67326	50.00000	Averaged
36 Hexachloroethane	0.60636	0.60759	0.60759	0.010	0.20268	50.00000	Averaged
37 N-Nitrosodinpropylamine	1.01180	0.98998	0.98998	0.050	-2.15704	50.00000	Averaged
42 Nitrobenzene	0.33116	0.33041	0.33041	0.010	-0.22622	50.00000	Averaged
44 Isophorone	0.63679	0.63576	0.63576	0.010	-0.16124	50.00000	Averaged
45 2-Nitrophenol	0.19648	0.20413	0.20413	0.010	3.89365	20.00000	Averaged
46 2,4-Dimethyphenol	0.34911	0.34930	0.34930	0.010	0.05379	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.38908	0.38642	0.38642	0.010	-0.68580	50.00000	Averaged
49 2,4-Dichlorophenol	0.27010	0.27994	0.27994	0.010	3.64346	20.00000	Averaged
50 Benzoic Acid	0.19324	0.19687	0.19687	0.010	1.87953	50.00000	Averaged
51 1,2,4-Trichlorobenzene	0.29246	0.30353	0.30353	0.010	3.78598	50.00000	Averaged
52 Naphthalene	1.10443	1.11341	1.11341	0.010	0.81344	50.00000	Averaged
54 4-Chloroaniline	0.43288	0.44857	0.44857	0.010	3.62538	50.00000	Averaged
57 Hexachlorobutadiene	0.14313	0.15103	0.15103	0.010	5.52194	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30164	0.32003	0.32003	0.010	6.09858	20.00000	Averaged
63 2-Methylnaphthalene	0.69378	0.70470	0.70470	0.010	1.57440	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.29846	0.30901	0.30901	0.050	3.53651	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.31913	0.34173	0.34173	0.010	7.07913	20.00000	Averaged
70 2,4,5-Trichlorphenol	0.34380	0.36191	0.36191	0.010	5.26745	50.00000	Averaged
71 2-Chloronaphthalene	1.12571	1.17300	1.17300	0.010	4.20089	50.00000	Averaged
73 2-Nitroaniline	0.34119	0.35327	0.35327	0.010	3.54208	50.00000	Averaged
76 Dimethylphthalate	1.29606	1.32203	1.32203	0.010	2.00361	50.00000	Averaged

Manual calculation for Pyridine :

$\frac{372580}{195191} \times \frac{40}{50} = 1.52704$ RY 10/14/10.

SH 10/14/10

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 14-OCT-2010 14:50
Lab File ID: HSL1014a.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010
Analysis Type: Init. Cal. Times: 17:32 15:00
Lab Sample ID: HSL_050 ug/ml CS-4 Quant Type: ISTD
Method: \\SV5\C\chem\sv5.i\101410a.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
77 Acenaphthylene	1.96037	2.04255	2.04255	0.010	4.19242	50.00000	Averaged
79 2,6-Dinitrotoluene	0.30197	0.31403	0.31403	0.010	3.99592	50.00000	Averaged
80 3-Nitroaniline	0.37691	0.40670	0.40670	0.010	7.90620	50.00000	Averaged
81 Acenaphthene	1.24787	1.26537	1.26537	0.010	1.40249	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000	53.34108	0.19055	0.050	6.68216	0.000e+000	Quadratic
83 Dibenzofuran	1.65612	1.70863	1.70863	0.010	3.17072	50.00000	Averaged
84 4-Nitrophenol	0.15634	0.17397	0.17397	0.050	11.27767	50.00000	Averaged
86 2,4-Dinitrotoluene	0.39633	0.41685	0.41685	0.010	5.17625	50.00000	Averaged
91 Fluorene	1.37139	1.41998	1.41998	0.010	3.54306	50.00000	Averaged
92 Diethylphthalate	1.32699	1.39293	1.39293	0.010	4.96871	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.57019	0.60045	0.60045	0.010	5.30705	50.00000	Averaged
94 4-Nitroaniline	0.37361	0.38739	0.38739	0.010	3.68767	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	49.81373	0.14172	0.010	-0.37254	0.000e+000	Linear
98 N-Nitrosodiphenylamine	0.60628	0.63385	0.63385	0.010	4.54648	20.00000	Averaged
100 Azobenzene	0.78660	0.77340	0.77340	0.010	-1.67895	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19527	0.21084	0.21084	0.010	7.97636	50.00000	Averaged
108 Hexachlorobenzene	0.21807	0.22407	0.22407	0.010	2.75555	50.00000	Averaged
110 Pentachlorophenol	50.00000	51.65075	0.13479	0.010	3.30150	0.000e+000	Linear
114 Phenanthrene	1.26074	1.25191	1.25191	0.010	-0.70058	50.00000	Averaged
115 Anthracene	1.25955	1.29455	1.29455	0.010	2.77899	50.00000	Averaged
118 Carbazole	1.15061	1.13597	1.13597	0.010	-1.27212	50.00000	Averaged
120 Di-n-Butylphthalate	1.38442	1.46798	1.46798	0.010	6.03555	50.00000	Averaged
126 Fluoranthene	1.12969	1.15132	1.15132	0.010	1.91452	20.00000	Averaged
127 Benzidine	0.81067	0.81659	0.81659	0.010	0.72939	50.00000	Averaged
128 Pyrene	1.25025	1.30921	1.30921	0.010	4.71509	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.71564	0.69548	0.69548	0.010	-2.81677	50.00000	Averaged
136 Butylbenzylphthalate	0.62663	0.63725	0.63725	0.010	1.69380	50.00000	Averaged
138 Benzo(a)Anthracene	1.06548	1.07429	1.07429	0.010	0.82692	50.00000	Averaged
139 Chrysene	1.08994	1.06897	1.06897	0.010	-1.92344	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.40189	0.40936	0.40936	0.010	1.85950	50.00000	Averaged
141 bis(2-ethylhexyl)Phthalate	0.86316	0.87210	0.87210	0.010	1.03613	50.00000	Averaged
142 Di-n-octylphthalate	1.37975	1.42266	1.42266	0.010	3.10973	20.00000	Averaged
144 Benzo(b)fluoranthene	0.90549	0.99616	0.99616	0.010	10.01361	50.00000	Averaged
145 Benzo(k)fluoranthene	1.16236	1.12443	1.12443	0.010	-3.26268	50.00000	Averaged
147 Benzo(e)pyrene	0.94425	0.96596	0.96596	0.010	2.29901	50.00000	Averaged
148 Benzo(a)pyrene	1.02655	1.07912	1.07912	0.010	5.12078	20.00000	Averaged
151 Indeno(1,2,3-cd)pyrene	0.83029	0.83090	0.83090	0.010	0.07411	50.00000	Averaged
152 Dibenzo(a,h)anthracene	0.92758	0.97698	0.97698	0.010	5.32571	50.00000	Averaged
153 Benzo(g,h,i)perylene	1.00427	1.05326	1.05326	0.010	4.87758	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06785	2.12060	2.12060	0.010	2.55087	50.00000	Averaged

```
                         TestAmerica West Sacramento

                                 Method 8270C
Data file : \\SV5\C\chem\sv5.i\101410a.B\HSL1014a.D
Lab Smp Id: HSL_050 ug/ml CS-4          Client Smp ID: 8270F.M
Inj Date  : 14-OCT-2010 14:50
Operator  : srs                         Inst ID: sv5.i
Smp Info  : HSL_050 ug/ml CS-4;2;;4;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\SV5\C\chem\sv5.i\101410a.B\8270f.m
Meth Date : 14-Oct-2010 15:24 sv5.i     Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19           Cal File: AP90817D.D
Als bottle: 97                          Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon                      Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SV5


                                                                                    AMOUNTS
                                            QUANT SIG                          CAL-AMT   ON-COL
Compounds                                     MASS      RT    EXP RT   REL RT  RESPONSE  (    NG)  (    NG)
=========================                     ====    ==== ======== ======== ========  =======   =======
*   1 1,4-Dichlorobenzene-d4                   152    3.851    3.851 (1.000)   195191   40.0000
*   2 Naphthalene-d8                           136    5.271    5.271 (1.000)   812742   40.0000
*   3 Acenaphthene-d10                         164    7.374    7.374 (1.000)   433504   40.0000
*   4 Phenanthrene-d10                         188    9.281    9.281 (1.000)   698674   40.0000
*   5 Chrysene-d12                             240   13.644   13.644 (1.000)   677782   40.0000
*   6 Perylene-d12                             264   16.017   16.017 (1.000)   662699   40.0000
$   7 2-Fluorophenol                           112    2.638    2.638 (0.685)   341601   50.0000     49.65
$   8 Phenol-d5                                 99    3.519    3.519 (0.914)   431684   50.0000     49.90
$   9 2-Chlorophenol-d4                        132    3.654    3.654 (0.949)   374961   50.0000     49.35
$  10 1,2-Dichlorobenzene-d4                   152    4.058    4.058 (1.054)   242331   50.0000     50.41
$  11 Nitrobenzene-d5                           82    4.483    4.483 (0.851)   345176   50.0000     50.14
$  12 2-Fluorobiphenyl                         172    6.576    6.576 (0.892)   713736   50.0000     51.11
$  13 2,4,6-Tribromophenol                     330    8.369    8.369 (1.135)   104004   50.0000     55.21
$  14 Terphenyl-d14                            244   11.882   11.882 (0.871)   683960   50.0000     51.23
   15 N-Nitrosodimethylamine                    74    1.612    1.612 (0.419)   220189   50.0000     48.96(M)
   16 Pyridine                                  79    1.623    1.623 (0.421)   372580   50.0000     49.54(M)
   23 Aniline                                   93    3.550    3.550 (0.922)   540218   50.0000     49.06
   24 Phenol                                    94    3.530    3.530 (0.917)   487800   50.0000     49.07
   26 Bis(2-chloroethyl)ether                   93    3.623    3.623 (0.941)   340744   50.0000     48.88
   27 2-Chlorophenol                           128    3.664    3.664 (0.952)   368316   50.0000     48.26
   28 1,3-Dichlorobenzene                      146    3.820    3.820 (0.992)   413836   50.0000     49.79
   29 1,4-Dichlorobenzene                      146    3.872    3.872 (1.005)   437336   50.0000     50.32
   30 Benzyl Alcohol                           108    4.017    4.017 (1.043)   255779   50.0000     49.87
   31 1,2-Dichlorobenzene                      146    4.068    4.068 (1.057)   396471   50.0000     49.62
   32 2-Methylphenol                           108    4.162    4.162 (1.081)   345957   50.0000     49.57
   33 2,2'-oxybis(1-Chloropropane)              45    4.193    4.193 (1.089)   524166   50.0000     47.24
   34 4-Methylphenol                           108    4.328    4.328 (1.124)   357015   50.0000     48.16
   36 Hexachloroethane                         117    4.400    4.400 (1.143)   148246   50.0000     50.10
   37 N-Nitrosodinpropylamine                   70    4.348    4.348 (1.129)   241543   50.0000     48.92
   42 Nitrobenzene                              77    4.504    4.504 (0.855)   335677   50.0000     49.89
   44 Isophorone                                82    4.763    4.763 (0.904)   645888   50.0000     49.92
   45 2-Nitrophenol                            139    4.866    4.866 (0.923)   207379   50.0000     51.95
   46 2,4-Dimethyphenol                        107    4.918    4.918 (0.933)   354866   50.0000     50.03
```

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                                                                                    AMOUNTS
                                       QUANT SIG                                CAL-AMT    ON-COL
Compounds                                MASS        RT    EXP RT   REL RT  RESPONSE   (   NG)    (   NG)
==========================               ====      ==== ======== ======== ========   =======    =======
   47 Bis(2-chloroethoxy)methane           93     5.032    5.032 (0.955)    392570   50.0000      49.66
   49 2,4-Dichlorophenol                  162     5.125    5.125 (0.972)    284400   50.0000      51.82
   50 Benzoic Acid                        122     5.032    5.032 (0.955)    200009   50.0000      50.94
   51 1,2,4-Trichlorobenzene              180     5.229    5.229 (0.992)    308362   50.0000      51.89
   52 Naphthalene                         128     5.291    5.291 (1.004)   1131144   50.0000      50.41
   54 4-Chloroaniline                     127     5.395    5.395 (1.024)    455713   50.0000      51.81
   57 Hexachlorobutadiene                 225     5.519    5.519 (1.047)    153435   50.0000      52.76
   60 4-Chloro-3-Methylphenol             107     5.975    5.975 (1.134)    325128   50.0000      53.05
   63 2-Methylnaphthalene                 142     6.110    6.110 (1.159)    715922   50.0000      50.79
   66 Hexachlorocyclopentadiene           237     6.379    6.379 (0.865)    167447   50.0000      51.77
   69 2,4,6-Trichlorophenol               196     6.483    6.483 (0.879)    185174   50.0000      53.54
   70 2,4,5-Trichlorphenol                196     6.524    6.524 (0.885)    196112   50.0000      52.63
   71 2-Chloronaphthalene                 162     6.680    6.680 (0.906)    635625   50.0000      52.10
   73 2-Nitroaniline                       65     6.856    6.856 (0.930)    191430   50.0000      51.77
   76 Dimethylphthalate                   163     7.126    7.126 (0.966)    716382   50.0000      51.00
   77 Acenaphthylene                      152     7.177    7.177 (0.973)   1106819   50.0000      52.10
   79 2,6-Dinitrotoluene                  165     7.198    7.198 (0.976)    170168   50.0000      52.00
   80 3-Nitroaniline                      138     7.354    7.354 (0.997)    220385   50.0000      53.95
   81 Acenaphthene                        153     7.405    7.405 (1.004)    685678   50.0000      50.70
   82 2,4-Dinitrophenol                   184     7.478    7.478 (1.014)    103256   50.0000      53.34
   83 Dibenzofuran                        168     7.602    7.602 (1.031)    925873   50.0000      51.58
   84 4-Nitrophenol                       109     7.582    7.582 (1.028)     94272   50.0000      55.64
   86 2,4-Dinitrotoluene                  165     7.664    7.664 (1.039)    225881   50.0000      52.59
   91 Fluorene                            166     8.027    8.027 (1.089)    769460   50.0000      51.77
   92 Diethylphthalate                    149     8.006    8.006 (1.086)    754799   50.0000      52.48
   93 4-Chlorophenyl-phenylether          204     8.048    8.048 (1.091)    325372   50.0000      52.65
   94 4-Nitroaniline                      138     8.110    8.110 (1.100)    209919   50.0000      51.84
   97 4,6-Dinitro-2-methylphenol          198     8.172    8.172 (0.881)    123767   50.0000      49.81
   98 N-Nitrosodiphenylamine              169     8.214    8.214 (0.885)    648780   58.6000      61.26
  100 Azobenzene                           77     8.245    8.245 (0.888)    675439   50.0000      49.16
  101 4-Bromophenyl-phenylether           248     8.690    8.690 (0.936)    184137   50.0000      53.99
  108 Hexachlorobenzene                   284     8.867    8.867 (0.955)    195694   50.0000      51.38
  110 Pentachlorophenol                   266     9.126    9.126 (0.983)    117722   50.0000      51.65
  114 Phenanthrene                        178     9.322    9.322 (1.004)   1093347   50.0000      49.65
  115 Anthracene                          178     9.385    9.385 (1.011)   1130584   50.0000      51.39
  118 Carbazole                           167     9.644    9.644 (1.039)    992092   50.0000      49.36
  120 Di-n-Butylphthalate                 149    10.348   10.348 (1.115)   1282045   50.0000      53.02
  126 Fluoranthene                        202    11.167   11.167 (1.203)   1005494   50.0000      50.96
  127 Benzidine                           184    11.447   11.447 (0.839)    691834   50.0000      50.36
  128 Pyrene                              202    11.530   11.530 (0.845)   1109195   50.0000      52.36
  134 3,3'-dimethylbenzidine              212    12.732   12.732 (0.933)    589230   50.0000      48.59
  136 Butylbenzylphthalate                149    12.856   12.856 (0.942)    539893   50.0000      50.85
  138 Benzo(a)Anthracene                  228    13.613   13.613 (0.998)    910166   50.0000      50.41
  139 Chrysene                            228    13.685   13.685 (1.003)    905663   50.0000      49.04
  140 3,3'-Dichlorobenzidine              252    13.665   13.665 (1.002)    346825   50.0000      50.93
  141 bis(2-ethylhexyl)Phthalate          149    13.986   13.986 (1.025)    738871   50.0000      50.52
  142 Di-n-octylphthalate                 149    15.033   15.033 (1.102)   1205313   50.0000      51.55
  144 Benzo(b)fluoranthene                252    15.437   15.437 (0.964)    825195   50.0000      55.01
  145 Benzo(k)fluoranthene                252    15.478   15.478 (0.966)    931452   50.0000      48.37
  147 Benzo(e)pyrene                      252    15.851   15.851 (0.990)    800172   50.0000      51.15
  148 Benzo(a)pyrene                      252    15.924   15.924 (0.994)    893912   50.0000      52.56
  151 Indeno(1,2,3-cd)pyrene              276    17.613   17.613 (1.100)    688299   50.0000      50.04
  152 Dibenzo(a,h)anthracene              278    17.665   17.665 (1.103)    809301   50.0000      52.66
  153 Benzo(g,h,i)perylene                276    18.027   18.027 (1.125)    872489   50.0000      52.44
```

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                                                                                    AMOUNTS
                                 QUANT SIG                                      CAL-AMT    ON-COL
Compounds                          MASS        RT   EXP RT   REL RT  RESPONSE   (   NG)    (   NG)
=========================          ====       ==== ======== ======== ========   =======    =======
M 162 benzo b,k Fluoranthene Totals  252                             1756647    50.0000
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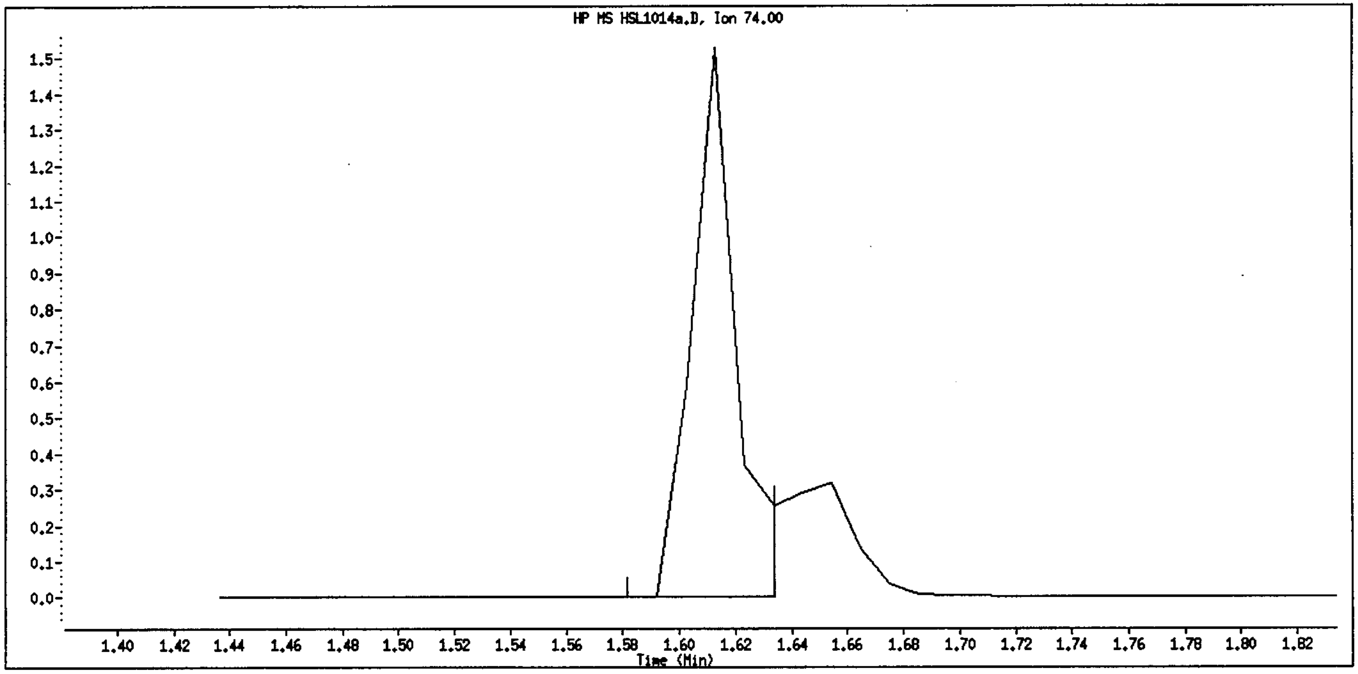
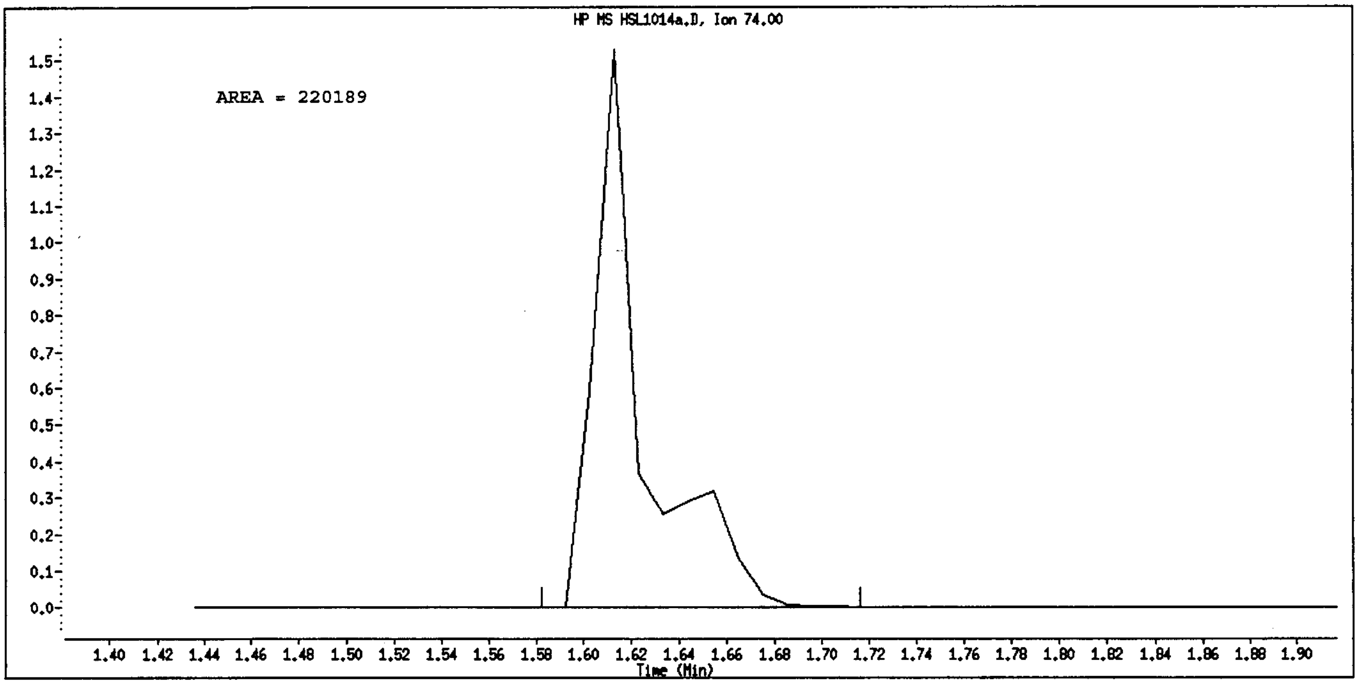
QC Flag Legend

M - Compound response manually integrated.

Data File Name: HSL1014a.D
Inj. Date and Time: 14-OCT-2010 14:50
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 10/14/2010



Original Integration

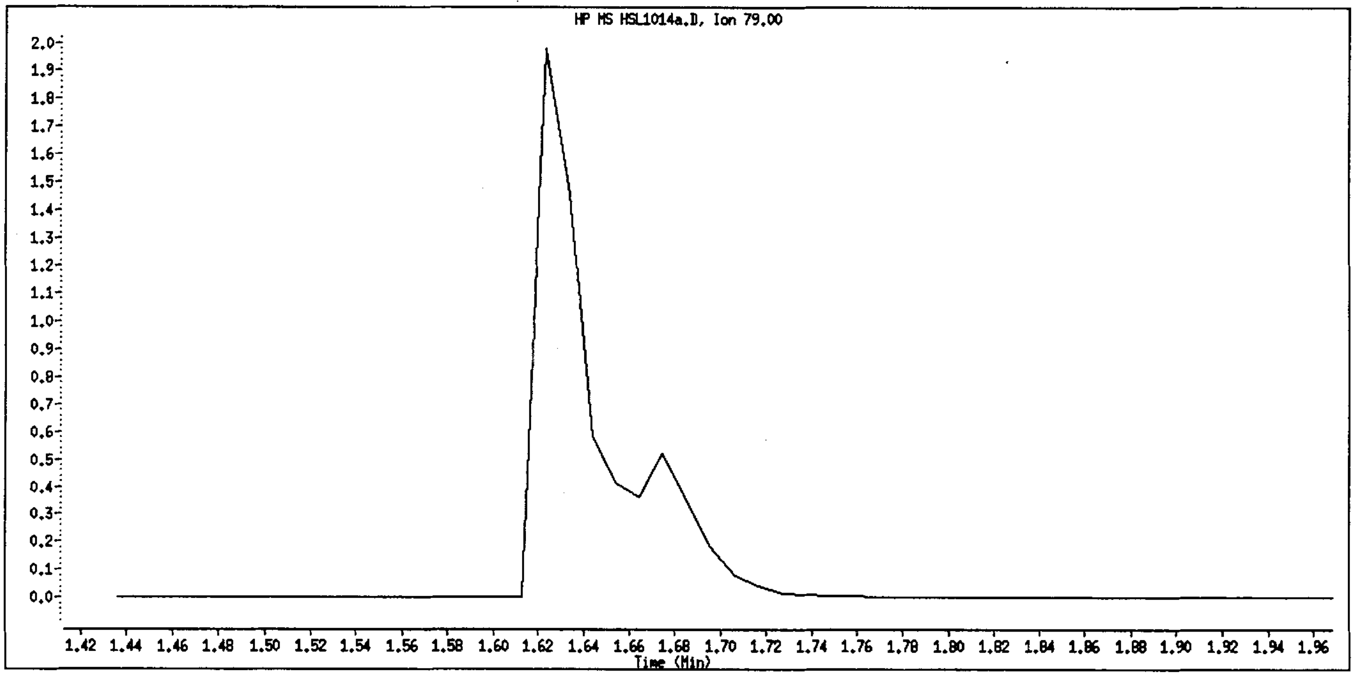


Manual Integration

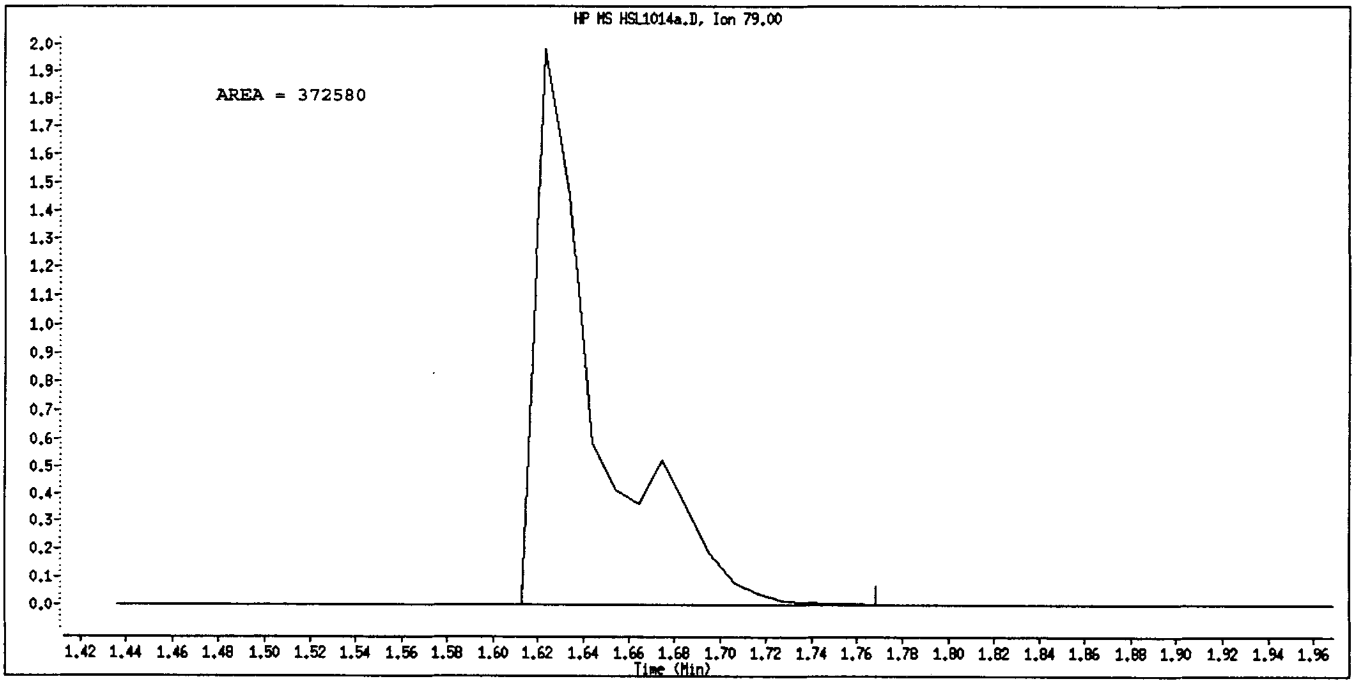
SM 10/14/10

Manually Integrated By: ~~semivoa~~ SM 10/14/10
Manual Integration Reason: Poor Chromatography

Data File Name: HSL1014a.D
Inj. Date and Time: 14-OCT-2010 14:50
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 10/14/2010



Original Integration



Manual Integration

SH 10/14/10

Manually Integrated By: ~~semivoa~~ SH 10/14/10
Manual Integration Reason: Peak Not Found

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                       TestAmerica West Sacramento

                               Method 8270C
Data file : \\SV5\C\chem\sv5.i\101410a.B\HSL1014a.D
Lab Smp Id: HSL_050 ug/ml CS-4           Client Smp ID: 8270F.M
Inj Date  : 14-OCT-2010 14:50
Operator  : srs                          Inst ID: sv5.i
Smp Info  : HSL_050 ug/ml CS-4;2;;4;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\SV5\C\chem\sv5.i\101410a.B\8270f.m
Meth Date : 14-Oct-2010 15:22 semivoa    Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19            Cal File: AP90817D.D
Als bottle: 97                           Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon                       Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SV5


                                                                                      AMOUNTS
                                     QUANT SIG                                        CAL-AMT   ON-COL
Compounds                              MASS        RT    EXP RT   REL RT   RESPONSE   (  NG)    (  NG)
=========================             ====       ====  ========  ======== ========   =======   =======
*   1 1,4-Dichlorobenzene-d4            152      3.851    3.851  (1.000)    195191   40.0000
*   2 Naphthalene-d8                    136      5.271    5.271  (1.000)    812742   40.0000
*   3 Acenaphthene-d10                  164      7.374    7.374  (1.000)    433504   40.0000
*   4 Phenanthrene-d10                  188      9.281    9.281  (1.000)    698674   40.0000
*   5 Chrysene-d12                      240     13.644   13.644  (1.000)    677782   40.0000
*   6 Perylene-d12                      264     16.017   16.017  (1.000)    662699   40.0000
$   7 2-Fluorophenol                    112      2.638    2.638  (0.685)    341601   50.0000     49.65
$   8 Phenol-d5                          99      3.519    3.519  (0.914)    431684   50.0000     49.90
$   9 2-Chlorophenol-d4                 132      3.654    3.654  (0.949)    374961   50.0000     49.35
$  10 1,2-Dichlorobenzene-d4            152      4.058    4.058  (1.054)    242331   50.0000     50.41
$  11 Nitrobenzene-d5                    82      4.483    4.483  (0.851)    345176   50.0000     50.14
$  12 2-Fluorobiphenyl                  172      6.576    6.576  (0.892)    713736   50.0000     51.11
$  13 2,4,6-Tribromophenol              330      8.369    8.369  (1.135)    104004   50.0000     55.21
$  14 Terphenyl-d14                     244     11.882   11.882  (0.871)    683960   50.0000     51.23
   15 N-Nitrosodimethylamine             74      1.612    1.612  (0.419)    162610   50.0000     36.16
   16 Pyridine                            79         Compound Not Detected.
   23 Aniline                            93      3.550    3.550  (0.922)    540218   50.0000     49.06
   24 Phenol                             94      3.530    3.530  (0.917)    487800   50.0000     49.07
   26 Bis(2-chloroethyl)ether            93      3.623    3.623  (0.941)    340744   50.0000     48.88
   27 2-Chlorophenol                    128      3.664    3.664  (0.952)    368316   50.0000     48.26
   28 1,3-Dichlorobenzene               146      3.820    3.820  (0.992)    413836   50.0000     49.79
   29 1,4-Dichlorobenzene               146      3.872    3.872  (1.005)    437336   50.0000     50.32
   30 Benzyl Alcohol                    108      4.017    4.017  (1.043)    255779   50.0000     49.87
   31 1,2-Dichlorobenzene               146      4.068    4.068  (1.057)    396471   50.0000     49.62
   32 2-Methylphenol                    108      4.162    4.162  (1.081)    345957   50.0000     49.57
   33 2,2'-oxybis(1-Chloropropane)       45      4.193    4.193  (1.089)    524166   50.0000     47.24
   34 4-Methylphenol                    108      4.328    4.328  (1.124)    357015   50.0000     48.16
   36 Hexachloroethane                  117      4.400    4.400  (1.143)    148246   50.0000     50.10
   37 N-Nitrosodinpropylamine            70      4.348    4.348  (1.129)    241543   50.0000     48.92
   42 Nitrobenzene                       77      4.504    4.504  (0.855)    335677   50.0000     49.89
   44 Isophorone                         82      4.763    4.763  (0.904)    645888   50.0000     49.92
   45 2-Nitrophenol                     139      4.866    4.866  (0.923)    207379   50.0000     51.95
   46 2,4-Dimethyphenol                 107      4.918    4.918  (0.933)    354866   50.0000     50.03
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                                                                              AMOUNTS
                                          QUANT SIG                                         CAL-AMT    ON-COL
Compounds                                   MASS          RT    EXP RT   REL RT  RESPONSE   (  NG)     (  NG)
=========================                   ====        ====  ======== ======== ========   =======    =======
  47 Bis(2-chloroethoxy)methane               93       5.032     5.032 (0.955)    392570    50.0000     49.66
  49 2,4-Dichlorophenol                      162       5.125     5.125 (0.972)    284400    50.0000     51.82
  50 Benzoic Acid                            122       5.032     5.032 (0.955)    200009    50.0000     50.94
  51 1,2,4-Trichlorobenzene                  180       5.229     5.229 (0.992)    308362    50.0000     51.89
  52 Naphthalene                             128       5.291     5.291 (1.004)   1131144    50.0000     50.41
  54 4-Chloroaniline                         127       5.395     5.395 (1.024)    455713    50.0000     51.81
  57 Hexachlorobutadiene                     225       5.519     5.519 (1.047)    153435    50.0000     52.76
  60 4-Chloro-3-Methylphenol                 107       5.975     5.975 (1.134)    325128    50.0000     53.05
  63 2-Methylnaphthalene                     142       6.110     6.110 (1.159)    715922    50.0000     50.79
  66 Hexachlorocyclopentadiene               237       6.379     6.379 (0.865)    167447    50.0000     51.77
  69 2,4,6-Trichlorophenol                   196       6.483     6.483 (0.879)    185174    50.0000     53.54
  70 2,4,5-Trichlorphenol                    196       6.524     6.524 (0.885)    196112    50.0000     52.63
  71 2-Chloronaphthalene                     162       6.680     6.680 (0.906)    635625    50.0000     52.10
  73 2-Nitroaniline                           65       6.856     6.856 (0.930)    191430    50.0000     51.77
  76 Dimethylphthalate                       163       7.126     7.126 (0.966)    716382    50.0000     51.00
  77 Acenaphthylene                          152       7.177     7.177 (0.973)   1106819    50.0000     52.10
  79 2,6-Dinitrotoluene                      165       7.198     7.198 (0.976)    170168    50.0000     52.00
  80 3-Nitroaniline                          138       7.354     7.354 (0.997)    220385    50.0000     53.95
  81 Acenaphthene                            153       7.405     7.405 (1.004)    685678    50.0000     50.70
  82 2,4-Dinitrophenol                       184       7.478     7.478 (1.014)    103256    50.0000     53.34
  83 Dibenzofuran                            168       7.602     7.602 (1.031)    925873    50.0000     51.58
  84 4-Nitrophenol                           109       7.582     7.582 (1.028)     94272    50.0000     55.64
  86 2,4-Dinitrotoluene                      165       7.664     7.664 (1.039)    225881    50.0000     52.59
  91 Fluorene                                166       8.027     8.027 (1.089)    769460    50.0000     51.77
  92 Diethylphthalate                        149       8.006     8.006 (1.086)    754799    50.0000     52.48
  93 4-Chlorophenyl-phenylether              204       8.048     8.048 (1.091)    325372    50.0000     52.65
  94 4-Nitroaniline                          138       8.110     8.110 (1.100)    209919    50.0000     51.84
  97 4,6-Dinitro-2-methylphenol              198       8.172     8.172 (0.881)    123767    50.0000     49.81
  98 N-Nitrosodiphenylamine                  169       8.214     8.214 (0.885)    648780    58.6000     61.26
 100 Azobenzene                               77       8.245     8.245 (0.888)    675439    50.0000     49.16
 101 4-Bromophenyl-phenylether               248       8.690     8.690 (0.936)    184137    50.0000     53.99
 108 Hexachlorobenzene                       284       8.867     8.867 (0.955)    195694    50.0000     51.38
 110 Pentachlorophenol                       266       9.126     9.126 (0.983)    117722    50.0000     51.65
 114 Phenanthrene                            178       9.322     9.322 (1.004)   1093347    50.0000     49.65
 115 Anthracene                              178       9.385     9.385 (1.011)   1130584    50.0000     51.39
 118 Carbazole                               167       9.644     9.644 (1.039)    992092    50.0000     49.36
 120 Di-n-Butylphthalate                     149      10.348    10.348 (1.115)   1282045    50.0000     53.02
 126 Fluoranthene                            202      11.167    11.167 (1.203)   1005494    50.0000     50.96
 127 Benzidine                               184      11.447    11.447 (0.839)    691834    50.0000     50.36
 128 Pyrene                                  202      11.530    11.530 (0.845)   1109195    50.0000     52.36
 134 3,3'-dimethylbenzidine                  212      12.732    12.732 (0.933)    589230    50.0000     48.59
 136 Butylbenzylphthalate                    149      12.856    12.856 (0.942)    539893    50.0000     50.85
 138 Benzo(a)Anthracene                      228      13.613    13.613 (0.998)    910166    50.0000     50.41
 139 Chrysene                                228      13.685    13.685 (1.003)    905663    50.0000     49.04
 140 3,3'-Dichlorobenzidine                  252      13.665    13.665 (1.002)    346825    50.0000     50.93
 141 bis(2-ethylhexyl)Phthalate              149      13.986    13.986 (1.025)    738871    50.0000     50.52
 142 Di-n-octylphthalate                     149      15.033    15.033 (1.102)   1205313    50.0000     51.55
 144 Benzo(b)fluoranthene                    252      15.437    15.437 (0.964)    825195    50.0000     55.01
 145 Benzo(k)fluoranthene                    252      15.478    15.478 (0.966)    931452    50.0000     48.37
 147 Benzo(e)pyrene                          252      15.851    15.851 (0.990)    800172    50.0000     51.15
 148 Benzo(a)pyrene                          252      15.924    15.924 (0.994)    893912    50.0000     52.56
 151 Indeno(1,2,3-cd)pyrene                  276      17.613    17.613 (1.100)    688299    50.0000     50.04
 152 Dibenzo(a,h)anthracene                  278      17.665    17.665 (1.103)    809301    50.0000     52.66
 153 Benzo(g,h,i)perylene                    276      18.027    18.027 (1.125)    872489    50.0000     52.44
```

```
                                                                                   AMOUNTS
                                      QUANT SIG                                  CAL-AMT    ON-COL
Compounds                               MASS       RT   EXP RT   REL RT RESPONSE ( NG)      ( NG)
==========================             ====      ==== ======== ======== ======== =======   =======
M 162 benzo b,k Fluoranthene Totals      252                              1756647 50.0000     51.28(A)
```

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1014a.D
Lab Smp Id: HSL_050 ug/ml CS-4
Analysis Type: SV
Quant Type: ISTD
Operator: srs
Method File: \\SV5\C\chem\sv5.i\101410a.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 14-OCT-2010
Calibration Time: 13:10
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	195191	59.18
2 Naphthalene-d8	530514	265257	1061028	812742	53.20
3 Acenaphthene-d10	282538	141269	565076	433504	53.43
4 Phenanthrene-d10	462722	231361	925444	698674	50.99
5 Chrysene-d12	435850	217925	871700	677782	55.51
6 Perylene-d12	422284	211142	844568	662699	56.93

COMPOUND	STANDARD	RT LIMIT LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.85	3.35	4.35	3.85	0.00
2 Naphthalene-d8	5.27	4.77	5.77	5.27	0.00
3 Acenaphthene-d10	7.37	6.87	7.87	7.37	0.00
4 Phenanthrene-d10	9.28	8.78	9.78	9.28	0.00
5 Chrysene-d12	13.64	13.14	14.14	13.64	0.00
6 Perylene-d12	16.02	15.52	16.52	16.02	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\101410a.B\HSL1014a.D

Date : 14-OCT-2010 14:50

Client ID: 8270F.M

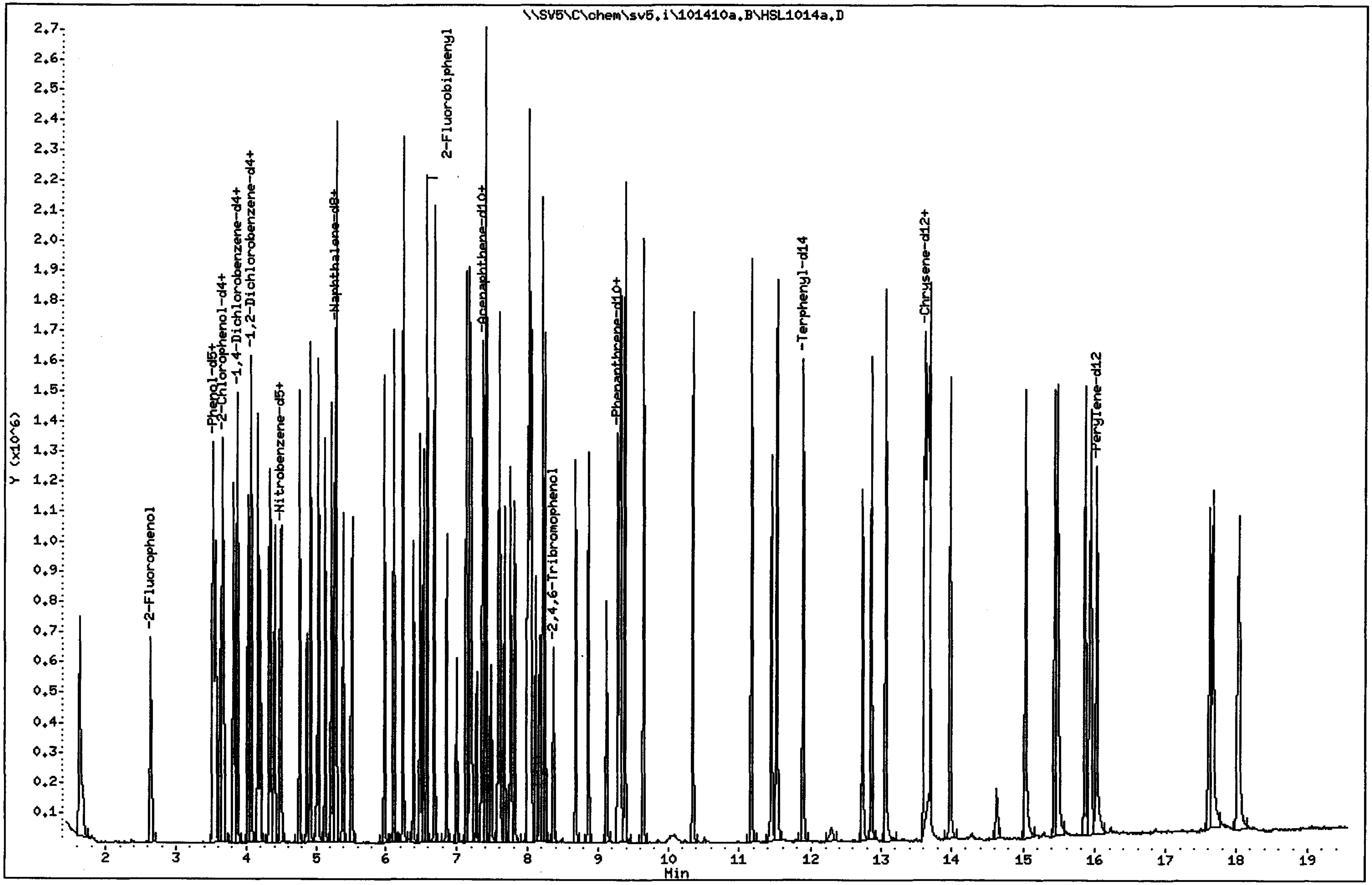
Sample Info: HSL_050 ug/ml CS-4;2;;4;;;;4

Column phase:

Instrument: sv5.i

Operator: srs

Column diameter: 2.00



```
        TAILING FACTOR/DEGRADATION SUMMARY RESULTS


     TAILING ANALYSIS SUMMARY
+=============================================================+
|    Compound                      |Tail Factor |Max Allowed|Test|
+=============================================================+
|Pentachlorophenol                 |  0.8778764|      5.000|PASS|
|Benzidine                         |  2.7983712|      3.000|PASS|
+=============================================================+

     DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY
+=============================================================+
|    Compound    | Response      | %Breakdown |Max Allowed|Test|
+=============================================================+
| 4,4-DDD + DDE |         90178 |        6.9 |      20.5  |PASS|
+=============================================================+

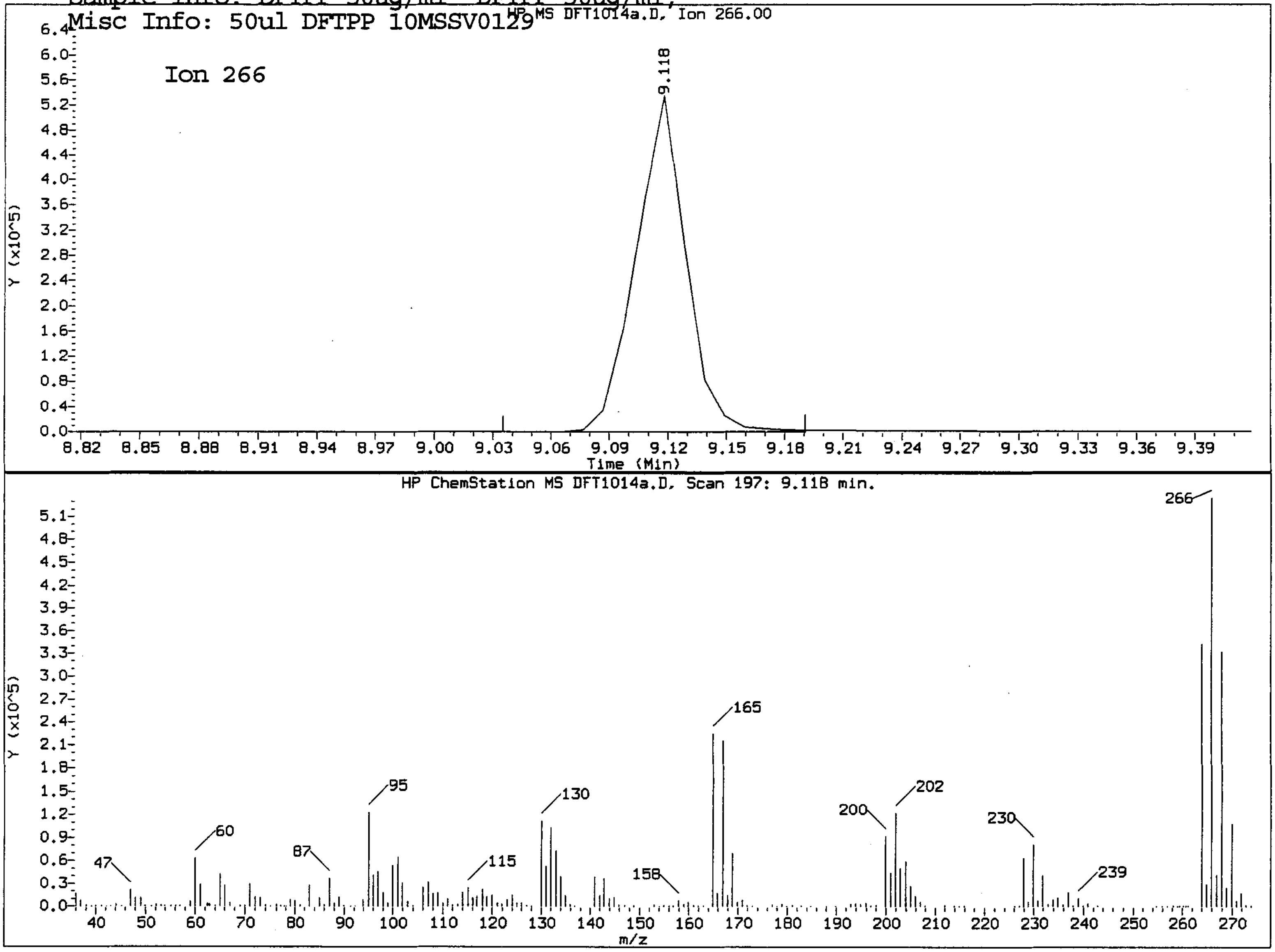
                                                                ****************
Sample //SV5/C/chem/sv5.i/101410a.B/DFT1014a.D/DFT1014a.D        *** PASSED ***
                                                                ****************
```

10/14/10

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 10/14/2010 14:44

Datafile Analyzed: //SV5/C/chem/sv5.i/101410a.B/DFT1014a.D/DFT1014a.D
Method Used: \\SV5\C\chem\sv5.i\101410a.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 14-OCT-2010 14:24 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



Pentachlorophenol
=================
Exp. RT = 9.387
Found RT = 9.118

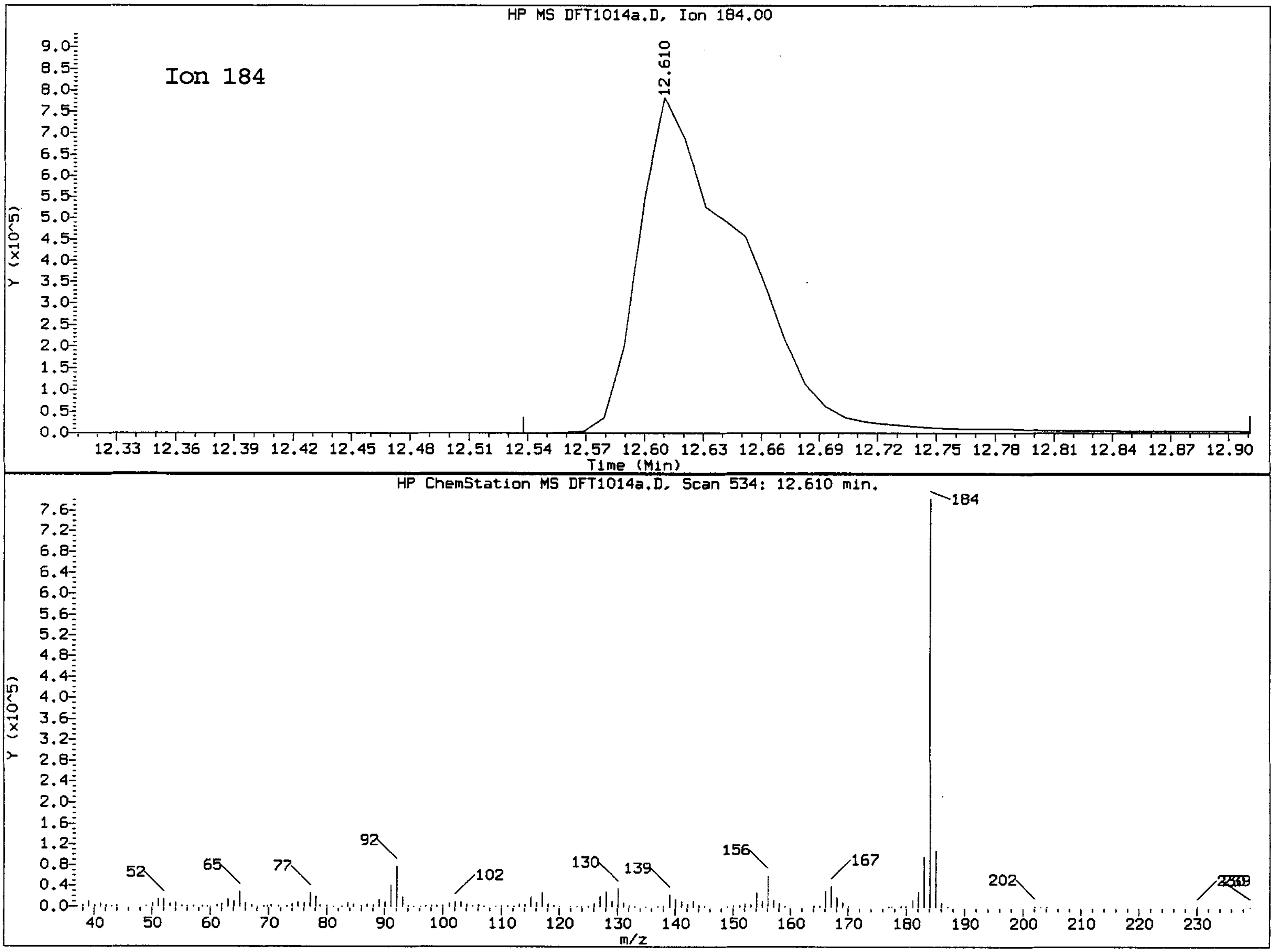
Time1 = 9.088433 Time2 = 9.118 Time3 = 9.143956
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 0.878 Maximum Allowed = 5.0

Report Date: 10/14/2010 14:44

Datafile Analyzed: //SV5/C/chem/sv5.i/101410a.B/DFT1014a.D/DFT1014a.D
Method Used: \\SV5\C\chem\sv5.i\101410a.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 14-OCT-2010 14:24 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



Benzidine
=========
Exp. RT = 12.911
Found RT = 12.610

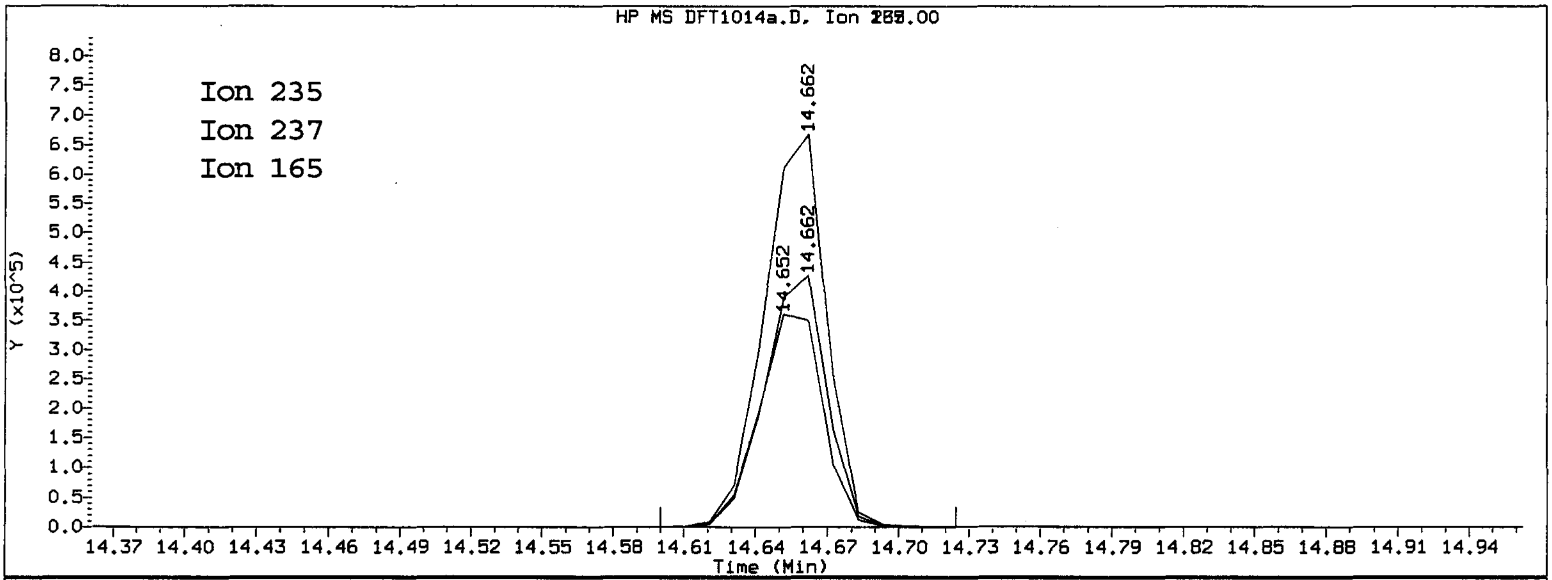
Time1 = 12.58193 Time2 = 12.61035 Time3 = 12.68987
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

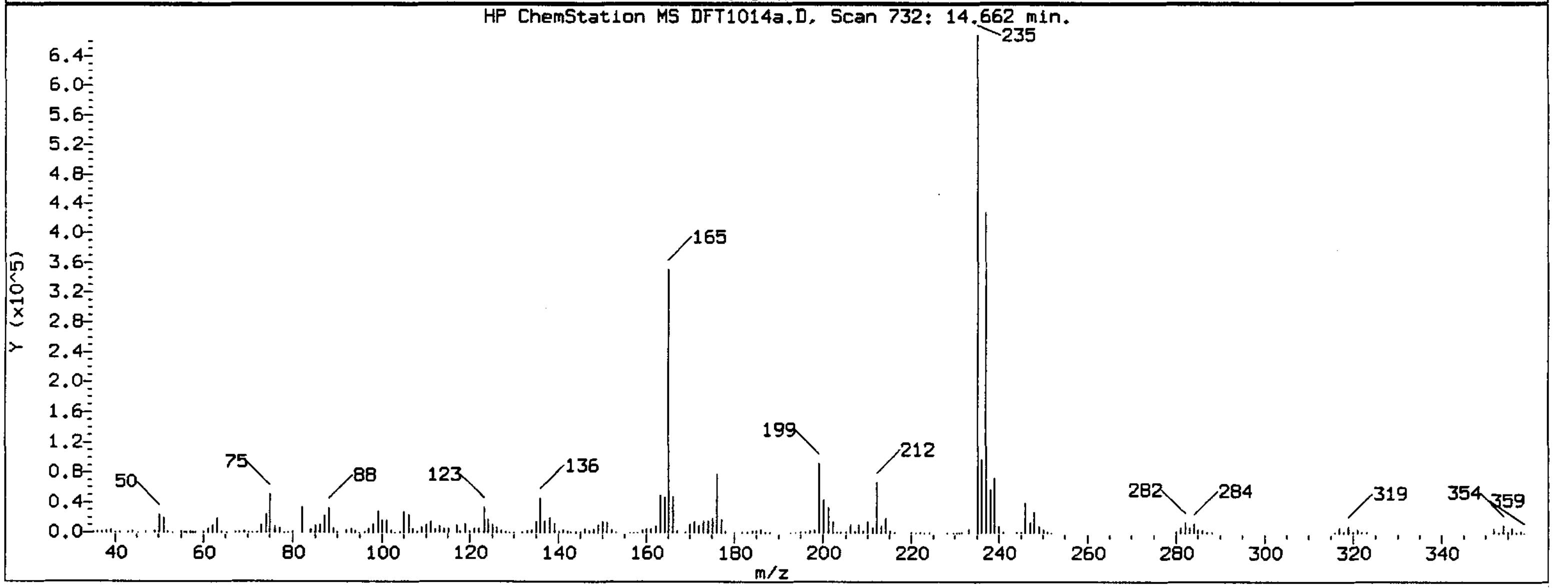
Tailing factor for Benzidine OK

Tail Factor = 2.798 Maximum Allowed = 3.0

Report Date: 10/14/2010 14:44

Datafile Analyzed: //SV5/C/chem/sv5.i/101410a.B/DFT1014a.D/DFT1014a.D
Method Used: \\SV5\C\chem\sv5.i\101410a.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 14-OCT-2010 14:24 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129


HP MS DFT1014a.D, Ion 2[illegible].00

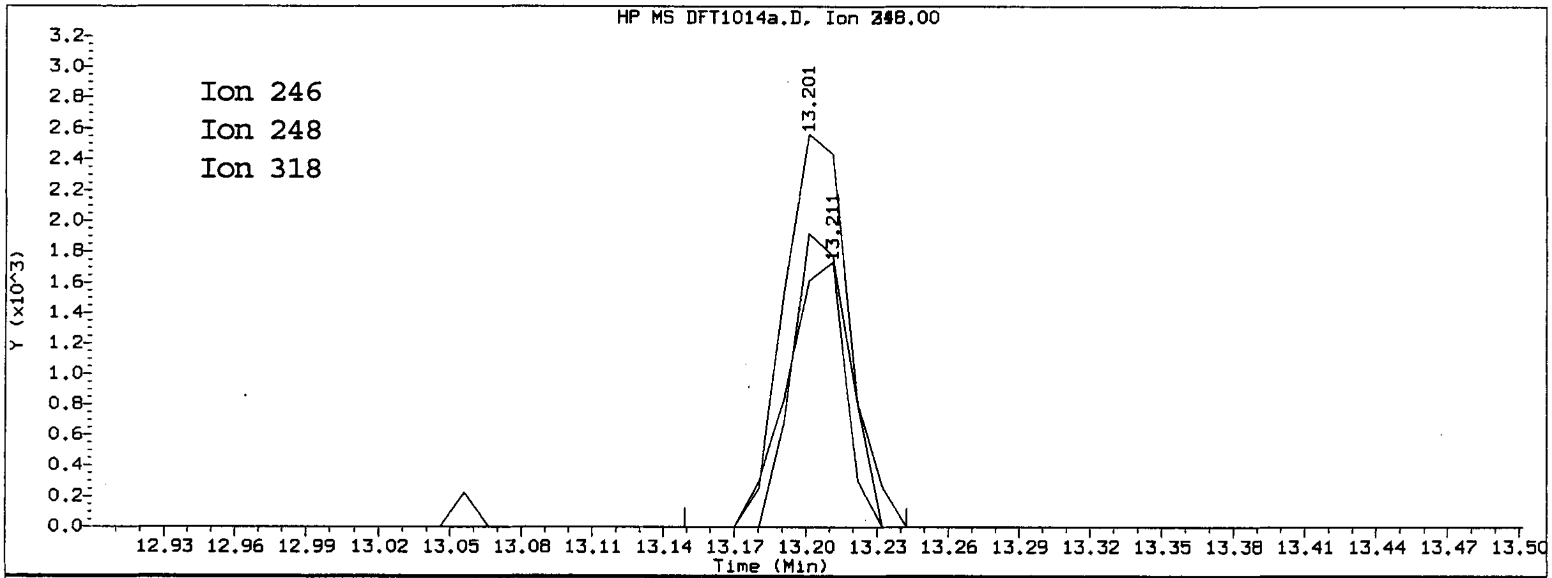

HP ChemStation MS DFT1014a.D, Scan 732: 14.662 min.

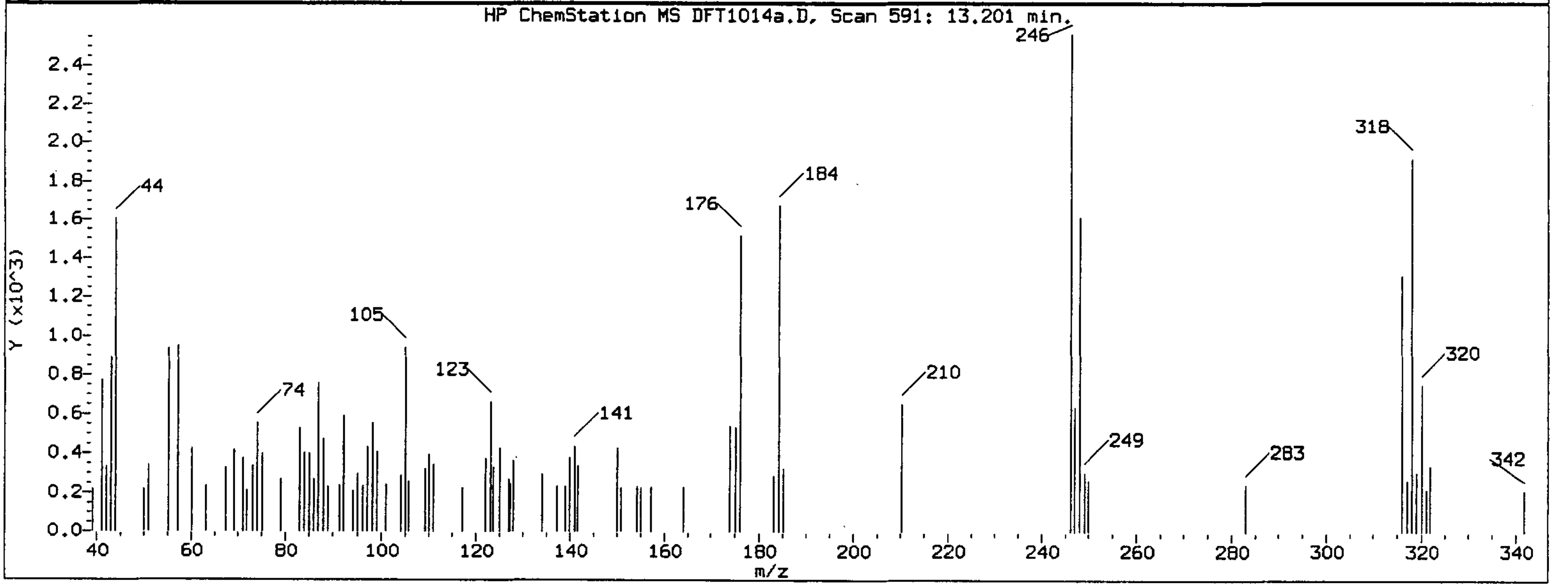
4,4'-DDT
========
Exp. RT = 14.942
Found RT = 14.662

Mass	Area	Ratio
235	1208525	100.00
237	774458	64.08
165	677214	56.04

Report Date: 10/14/2010 14:44

Datafile Analyzed: //SV5/C/chem/sv5.i/101410a.B/DFT1014a.D/DFT1014a.D
Method Used: \\SV5\C\chem\sv5.i\101410a.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 14-OCT-2010 14:24   Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



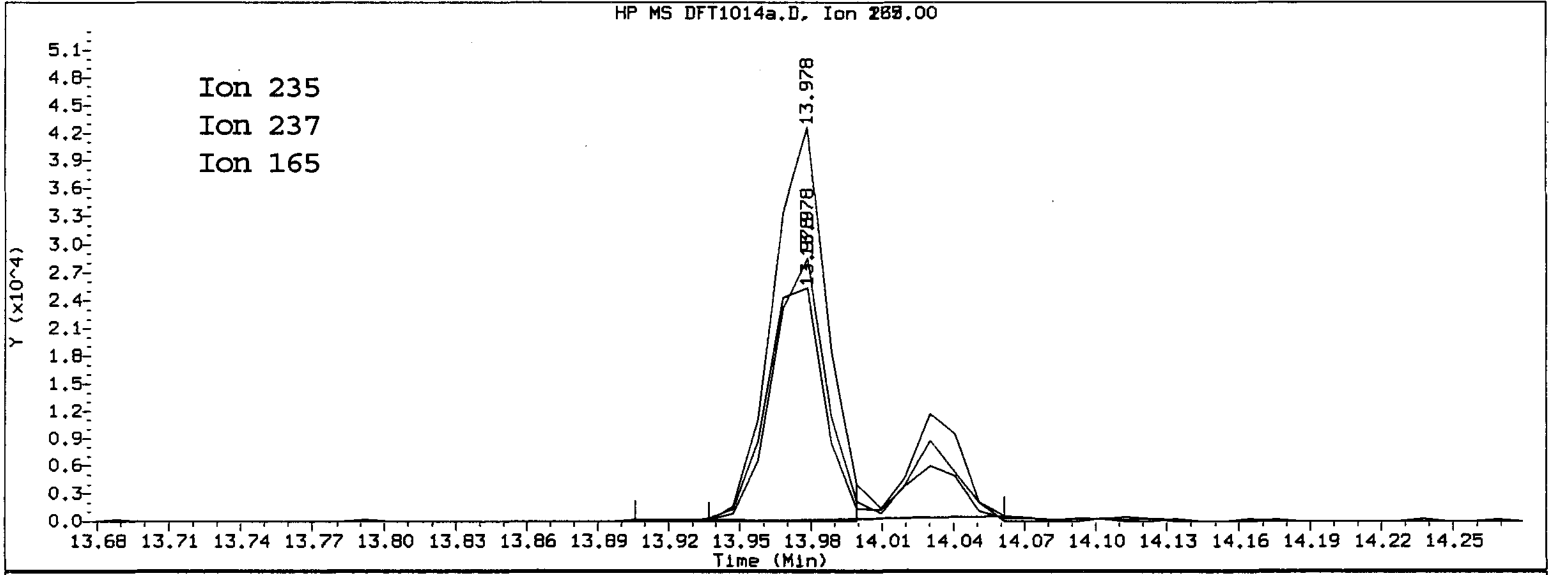


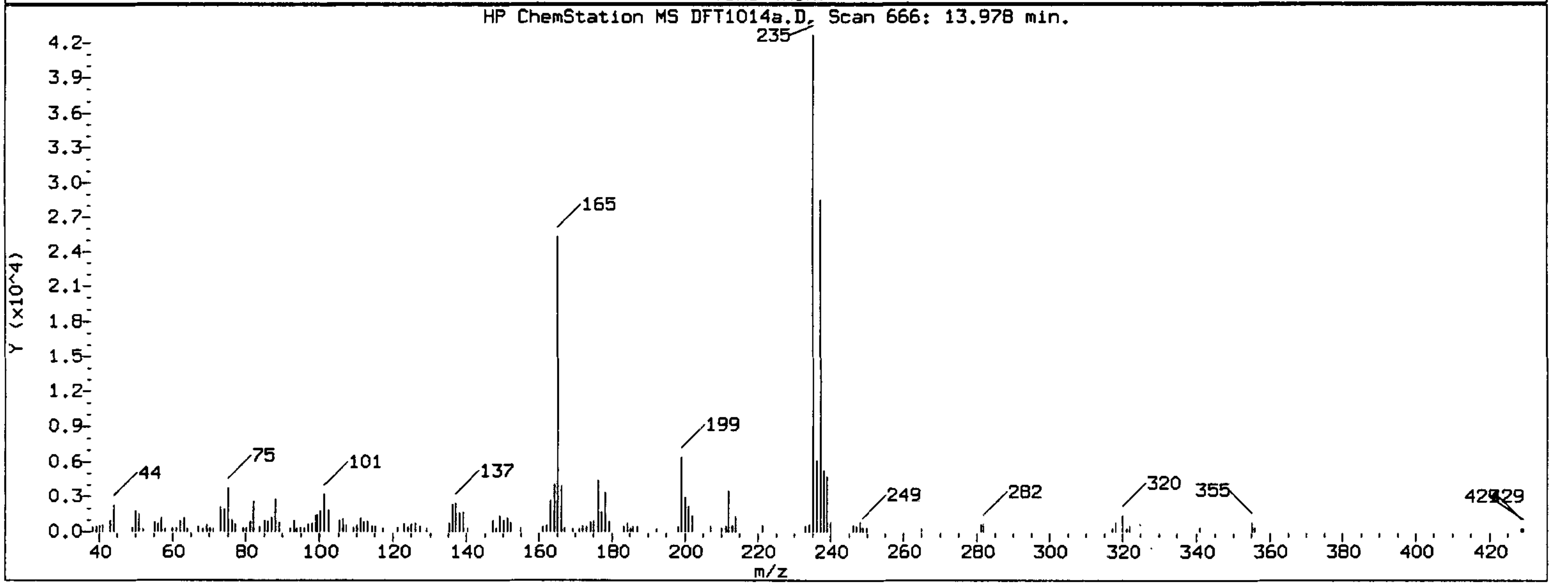
4,4'-DDE
========
Exp. RT = 13.470
Found RT = 13.201

Mass	Area	Ratio
246	4885	100.00
248	2972	60.85
318	0	0.00

Report Date: 10/14/2010 14:44

Datafile Analyzed: //SV5/C/chem/sv5.i/101410a.B/DFT1014a.D/DFT1014a.D
Method Used: \\SV5\C\chem\sv5.i\101410a.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 14-OCT-2010 14:24 Operator: srs
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129

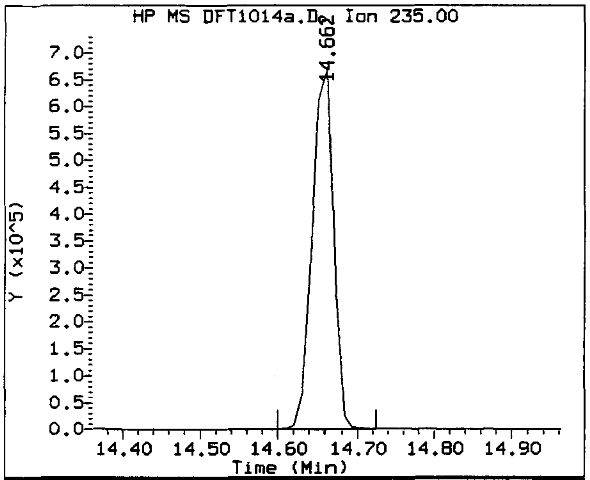




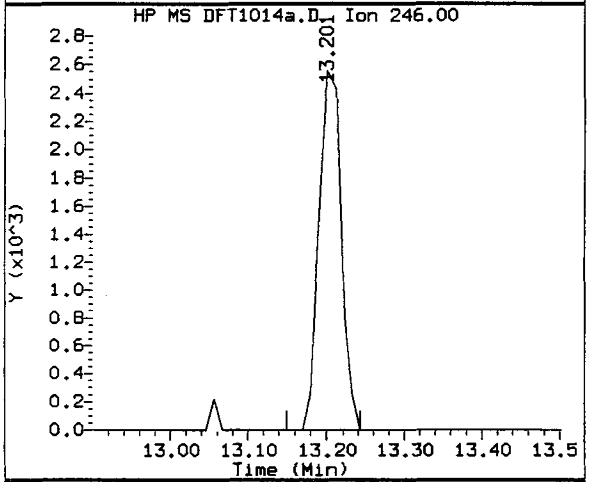
4,4'-DDD
========

Exp. RT = 14.248
Found RT = 13.978

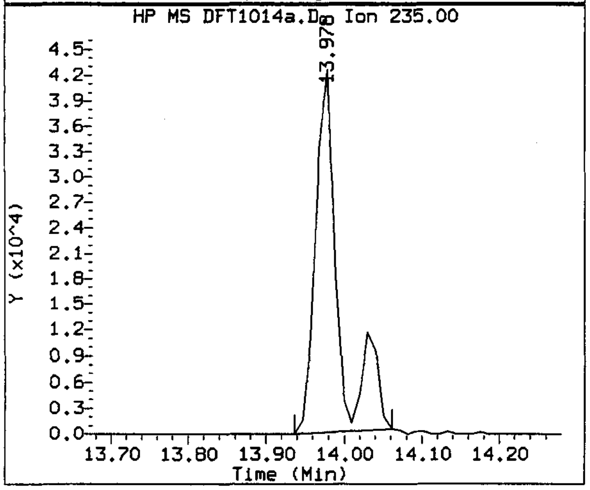
Mass	Area	Ratio
235	85293	100.00
237	45239	53.04
165	42428	49.74



Compound: 4,4'-DDT
Quant Mass: 235
RT: 14.662
Area: 1208525



Compound: 4,4'-DDE
Quant Mass: 246
RT: 13.201
Area: 4885



Compound: 4,4'-DDD
Quant Mass: 235
RT: 13.978
Area: 85293

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	90178	6.9	20.5	PASS

```
                         TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\101410a.B\DFT1014a.D
Lab Smp Id: DFTPP 50ug/ml
Inj Date  : 14-OCT-2010 14:24
Operator  : srs                          Inst ID: sv5.i
Smp Info  : DFTPP 50ug/ml;
Misc Info : 50ul DFTPP 10MSSV0129
Comment   :
Method    : \\SV5\C\chem\sv5.i\101410a.B\DFTPP.m
Meth Date : 17-Aug-2010 14:10 scotts     Quant Type: ISTD
Cal Date  :                              Cal File:
Als bottle: 96                           QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE                       Compound Sublist: all.sub
Target Version:  4.14                    Sample Matrix: None
Processing Host: SV5

                                            CONCENTRATIONS
                                            ON-COL    FINAL
  RT     EXP RT    REL RT    MASS  RESPONSE ( ug/L)  ( ug/L)   TARGET RANGE    RATIO
 ==== ======== ========  ====  ======== =======  =======   ============    =====

   1 dftpp                                          CAS #: 5074-71-5
10.579  10.713 ( 0.000)   198   650816                      0.00- 100.00  100.00
10.579  11.201 ( 0.000)    51   256640                     30.00-  80.00   39.43
10.579  11.201 ( 0.000)    68     3584                      0.00-   2.00    1.49
10.579  11.201 ( 0.000)    69   239936                      0.00-   0.00   36.87
10.579  11.201 ( 0.000)    70     1324                      0.00-   2.00    0.55
10.579  11.201 ( 0.000)   127   346944                     25.00-  75.00   53.31
10.579  11.201 ( 0.000)   197        0      0.0      0.0    0.00-   1.00    0.00
10.579  11.201 ( 0.000)   199    44192                      5.00-   9.00    6.79
10.579  11.201 ( 0.000)   275   151296                     10.00-  30.00   23.25
10.579  11.201 ( 0.000)   365    17936                      0.75-   0.00    2.76
10.579  11.201 ( 0.000)   441    94032                      0.01-  99.99   76.19
10.579  11.201 ( 0.000)   442   645120                     40.00- 110.00   99.12
10.579  11.201 ( 0.000)   443   123416                     15.00-  24.00   19.13
----------------------------------------------------------------------------
```

Data File: \\SV5\C\chem\sv5.i\101410a.B\DFT1014a.D

Date : 14-OCT-2010 14:24

Client ID:

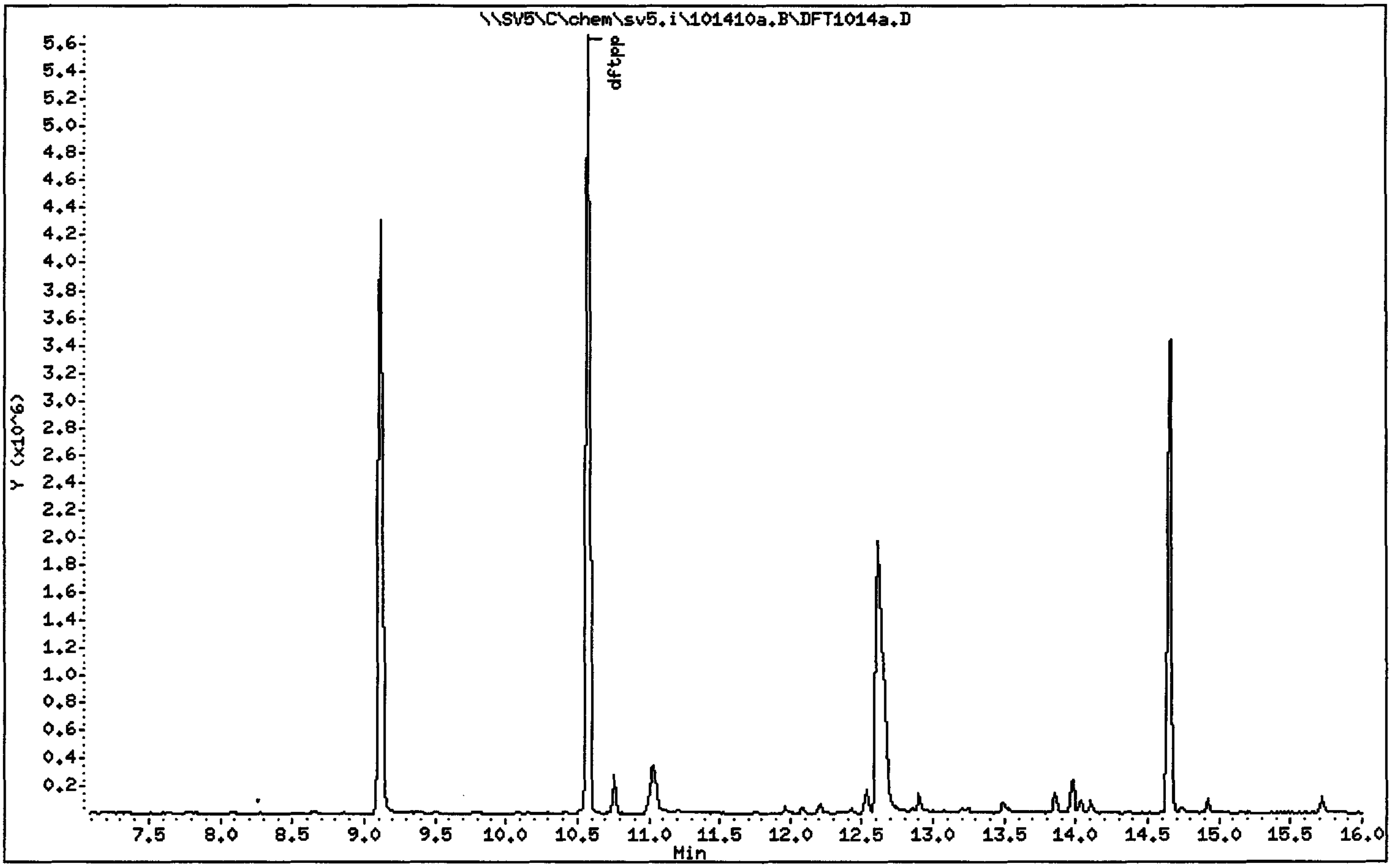
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00



Data File: \\SV5\C\chem\sv5.i\101410a.B\DFT1014a.D

Date : 14-OCT-2010 14:24

Client ID:

Instrument: sv5.i

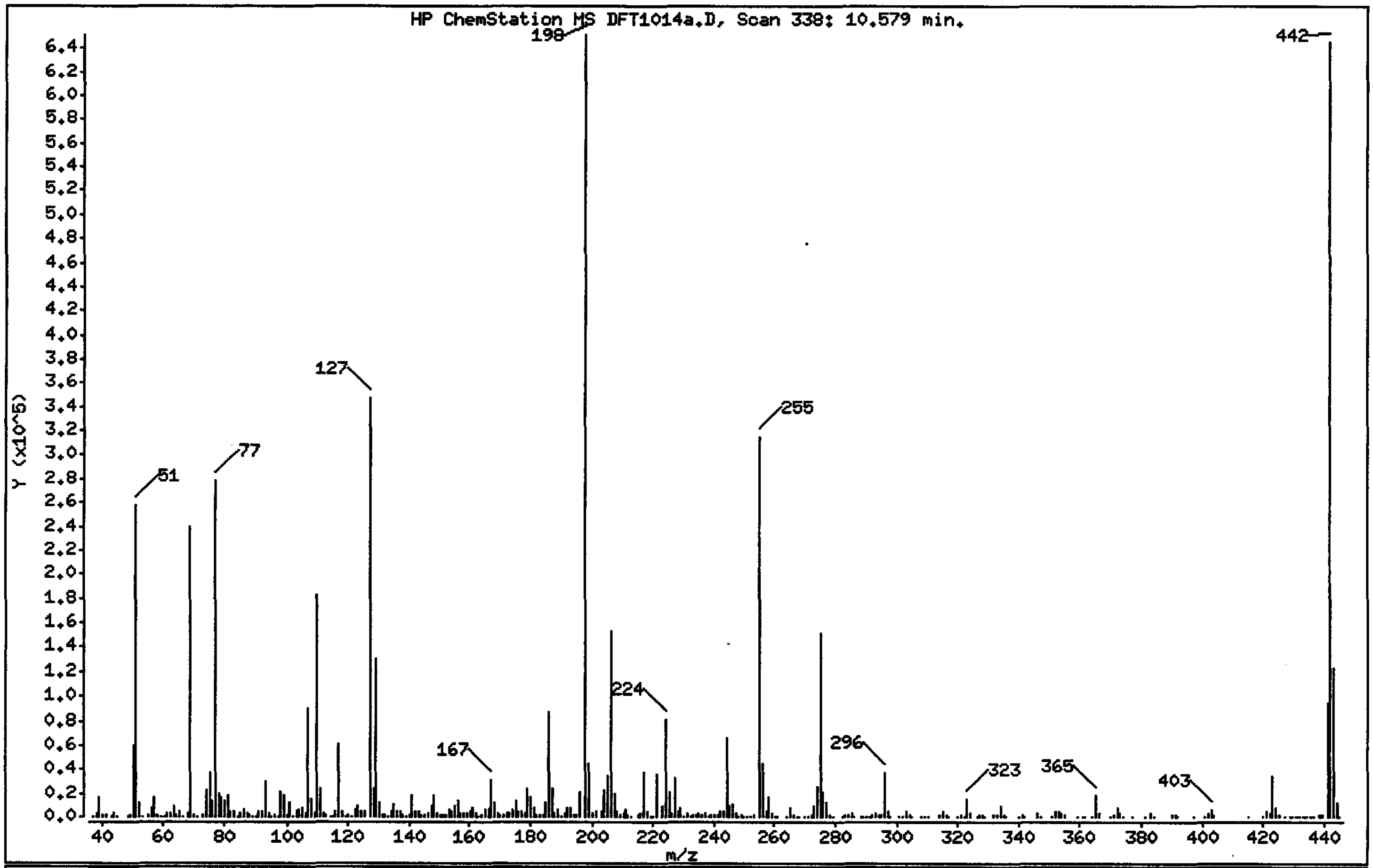
Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

1 dftpp



```
                                                              % RELATIVE
  m/e       ION ABUNDANCE CRITERIA                             ABUNDANCE
+------+-----------------------------------------------+---------------------+
|      |                                               |                     |
| 198  | Base Peak, 100% relative abundance            |  100.00             |
|  51  | 30.00 - 80.00% of mass 198                    |   39.43             |
|  68  | Less than  2.00% of mass 69                   |    0.55 (  1.49)    |
|  69  | Mass 69 relative abundance                    |   36.87             |
|  70  | Less than  2.00% of mass 69                   |    0.20 (  0.55)    |
| 127  | 25.00 - 75.00% of mass 198                    |   53.31             |
| 197  | Less than  1.00% of mass 198                  |    0.00             |
| 199  |  5.00 -  9.00% of mass 198                    |    6.79             |
| 275  | 10.00 - 30.00% of mass 198                    |   23.25             |
| 365  | Greater than  0.75% of mass 198               |    2.76             |
| 441  | Present, but less than mass 443               |   14.45             |
| 442  | 40.00 - 110.00% of mass 198                   |   99.12             |
| 443  | 15.00 - 24.00% of mass 442                    |   18.96 ( 19.13)    |
+------+-----------------------------------------------+---------------------+
```

Data File: \\SV5\C\chem\sv5.i\101410a.B\DFT1014a.D

Date : 14-OCT-2010 14:24

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

```
                    Data File: DFT1014a.D
                     Spectrum: HP ChemStation MS DFT1014a.D, Scan 338: 10.579 min.
          Location of Maximum: 198.00
             Number of points: 334

          m/z          Y      m/z          Y      m/z          Y      m/z          Y
   +-------------------+-------------------+-------------------+-------------------+
   |  37.00        718 | 128.10      24392 | 211.70       1786 | 308.00        464 |
   |  38.10       2540 | 129.00     130712 | 213.00        686 | 309.10        446 |
   |  39.10      16392 | 130.00      11230 | 215.00       1373 | 310.10        493 |
   |  40.10        857 | 131.10       2159 | 216.00       3186 | 314.10       1901 |
   |  41.10        821 | 132.10       1289 | 217.00      37720 | 315.00       4358 |
   +-------------------+-------------------+-------------------+-------------------+
   |  43.20        669 | 132.80        612 | 218.00       5091 | 316.00       2232 |
   |  44.00       2267 | 134.00       4113 | 219.30        507 | 317.00        518 |
   |  45.10        491 | 135.00       9729 | 219.80        668 | 319.90        383 |
   |  48.30        251 | 136.00       4505 | 221.10      36456 | 321.10       1384 |
   |  49.20       1862 | 137.00       4767 | 223.00       8636 | 322.10        591 |
   +-------------------+-------------------+-------------------+-------------------+
   |  50.10      59552 | 138.00       1504 | 224.10      80584 | 323.10      14525 |
   |  51.10     256640 | 139.10        713 | 225.10      20608 | 324.10       2721 |
   |  52.00      12601 | 140.00       1359 | 226.00       2365 | 326.10        466 |
   |  53.00        573 | 141.00      17608 | 227.00      33152 | 327.00       2154 |
   |  55.00       2074 | 142.10       5158 | 228.00       4545 | 328.00       1284 |
   +-------------------+-------------------+-------------------+-------------------+
   |  56.00       7516 | 143.00       3903 | 229.00       7398 | 328.90        212 |
   |  57.00      16736 | 144.00        787 | 230.00        693 | 332.00        898 |
   |  58.00       1371 | 145.10       1049 | 231.00       3185 | 333.20       1248 |
   |  59.00        271 | 146.00       2690 | 232.10        439 | 334.00       8386 |
   |  60.20        240 | 147.00       9203 | 233.00        797 | 335.10       1935 |
   +-------------------+-------------------+-------------------+-------------------+
   |  61.00       2803 | 148.00      18488 | 234.10       1919 | 336.10        346 |
   |  62.10       3645 | 149.00       3590 | 235.00       2703 | 340.00        380 |
   |  63.10       9067 | 150.10        842 | 236.10       1511 | 341.00       1910 |
   |  64.00       1444 | 151.00       1893 | 237.10       2465 | 342.10        294 |
   |  65.10       4679 | 151.60       1144 | 238.10        328 | 346.00       3422 |
   +-------------------+-------------------+-------------------+-------------------+
   |  66.20        322 | 152.10       1137 | 239.10       1152 | 347.00        518 |
   |  68.10       3584 | 153.00       5705 | 240.00        887 | 351.00        340 |
   |  69.00     239936 | 154.00       3985 | 241.00       1875 | 352.00       4571 |
   |  70.00       1324 | 155.00       8769 | 242.10       4179 | 353.10       3961 |
   |  71.00        379 | 156.00      13414 | 243.10       4664 | 354.00       3684 |
   +-------------------+-------------------+-------------------+-------------------+
   |  73.10       1836 | 157.00       2928 | 244.10      66120 | 355.00       1035 |
   |  74.00      21816 | 158.10       2800 | 245.10       9100 | 359.10        433 |
   |  75.00      37344 | 159.00       2503 | 246.00      10650 | 361.00        218 |
   |  76.10      13962 | 160.10       4435 | 247.00       2709 | 361.50        225 |
   |  77.10     277760 | 161.00       7550 | 248.10        628 | 364.00        263 |
```

Data File: \\SV5\C\chem\sv5.i\101410a.B\DFT1014a.D

Date : 14-OCT-2010 14:24

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

```
                 Data File: DFT1014a.D
                  Spectrum: HP ChemStation MS DFT1014a.D, Scan 338: 10.579 min.
       Location of Maximum: 198.00
          Number of points: 334

     m/z          Y      m/z          Y      m/z          Y      m/z          Y
  +------------------+------------------+------------------+------------------+
  |  78.10     18768 | 162.00      2311 | 249.00      2196 | 365.00     17936 |
  |  79.00     16736 | 163.00       628 | 249.80       449 | 366.00      3329 |
  |  80.00     13178 | 164.00       893 | 251.10       580 | 370.10       550 |
  |  81.00     18016 | 165.00      5434 | 252.10       492 | 371.00      1080 |
  |  82.00      4777 | 166.10      5394 | 253.00      1839 | 372.10      7545 |
  +------------------+------------------+------------------+------------------+
  |  83.00      5057 | 167.00     31360 | 255.00    314176 | 373.00      2319 |
  |  84.00       548 | 168.00     11514 | 256.00     45544 | 374.10       288 |
  |  85.00      3559 | 169.00      2580 | 257.10      4170 | 377.00       420 |
  |  86.00      5398 | 170.10      1057 | 258.00     15748 | 380.90       201 |
  |  87.10      2448 | 171.00      1254 | 259.00      3090 | 383.00      2407 |
  +------------------+------------------+------------------+------------------+
  |  87.90       858 | 172.00      2753 | 260.10       606 | 384.00       537 |
  |  89.00       590 | 173.00      3125 | 261.00       586 | 390.10      1314 |
  |  89.90       258 | 174.00      5562 | 264.00       543 | 391.10       862 |
  |  91.00      4135 | 175.10     12933 | 265.00      6920 | 392.10       443 |
  |  92.00      4271 | 176.00      4058 | 266.10      1296 | 397.10       305 |
  +------------------+------------------+------------------+------------------+
  |  93.00     29240 | 177.00      5131 | 267.30       201 | 401.00       382 |
  |  94.10      2406 | 178.00      2629 | 267.90       284 | 402.00      3440 |
  |  95.00       707 | 179.00     23792 | 270.00       525 | 403.10      5242 |
  |  96.10      1911 | 180.00     15816 | 271.00       726 | 404.00      1849 |
  |  97.10       523 | 181.00      7813 | 272.10      1200 | 415.10       218 |
  +------------------+------------------+------------------+------------------+
  |  98.00     21688 | 182.00      1496 | 273.00      9463 | 419.80       302 |
  |  99.00     17544 | 183.00      1493 | 274.10     25776 | 421.10      4038 |
  | 100.00      1428 | 184.10      1986 | 275.00    151296 | 422.00      3616 |
  | 101.00     12395 | 185.00     11340 | 276.00     20512 | 423.00     34912 |
  | 102.10       705 | 186.10     87256 | 277.00     11906 | 424.10      6927 |
  +------------------+------------------+------------------+------------------+
  | 103.00      4015 | 187.10     24032 | 278.10      1760 | 425.10       754 |
  | 104.10      6690 | 188.00      2508 | 279.10       273 | 427.20       302 |
  | 105.00      7307 | 189.00      5548 | 282.10       221 | 428.50       462 |
  | 106.10      2461 | 189.90       705 | 283.10      1630 | 428.90       254 |
  | 107.00     89424 | 191.10      2670 | 284.10      1080 | 429.60       363 |
  +------------------+------------------+------------------+------------------+
  | 108.10     15288 | 192.10      6760 | 285.10      2262 | 430.50       285 |
  | 109.10      2512 | 193.10      6970 | 286.00       298 | 430.90       365 |
  | 110.00    182400 | 194.00      1347 | 288.20       311 | 431.90       395 |
  | 111.00     23480 | 195.10      1353 | 289.00       662 | 432.90       395 |
  | 112.00      2878 | 196.00     21672 | 290.00       374 | 433.40       436 |
```

Data File: \\SV5\C\chem\sv5.i\101410a.B\DFT1014a.D

Date : 14-OCT-2010 14:24

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

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                Data File: DFT1014a.D
                 Spectrum: HP ChemStation MS DFT1014a.D, Scan 338: 10.579 min.
       Location of Maximum: 198.00
          Number of points: 334

        m/z           Y      m/z           Y      m/z           Y      m/z           Y
   +------------------+------------------+------------------+------------------+
   | 113.00        1204 | 198.00    650816 | 291.10       488 | 434.20       605 |
   | 114.30         393 | 199.00     44192 | 291.60       309 | 435.10       401 |
   | 115.00         675 | 200.00      3392 | 292.10       866 | 435.70       574 |
   | 116.00        4644 | 201.50      4546 | 293.10      2847 | 436.30       679 |
   | 117.00       61112 | 203.00      3865 | 294.10       768 | 438.00       997 |
   +------------------+------------------+------------------+------------------+
   | 118.00        5005 | 204.10     22984 | 295.10      1006 | 438.80      1331 |
   | 119.10         712 | 205.10     34328 | 296.00     36656 | 439.20      1469 |
   | 120.00        1005 | 206.10    153088 | 297.10      4831 | 441.00     94032 |
   | 121.00         406 | 207.10     19144 | 298.00       735 | 442.00    645120 |
   | 122.00        5877 | 208.10      5052 | 301.00       365 | 443.00    123416 |
   +------------------+------------------+------------------+------------------+
   | 123.00        9556 | 209.00      1675 | 301.90       524 | 444.00     11421 |
   | 124.00        4559 | 210.10      2113 | 303.00      5151 | 445.00       524 |
   | 125.00        4522 | 210.50      2525 | 304.10      1231 |                  |
   | 127.00      346944 | 211.10      5643 | 304.90       398 |                  |
   +------------------+------------------+------------------+------------------+
```

```
Data File: \\sv5\c\chem\sv5.i\101410a.B\S101414.D                    Page 1
Report Date: 18-Oct-2010 09:35


                         TestAmerica WestSacramento

                                Method 8270C
Data file : \\sv5\c\chem\sv5.i\101410a.B\S101414.D
Lab Smp Id: L8A5R1AA G0J120000-          Client Smp ID: 0285254
Inj Date  : 14-OCT-2010 21:03
Operator  : srs                          Inst ID: sv5.i
Smp Info  : L8A5R1AA G0J120000-254B;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0285254;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Meth Date : 18-Oct-2010 09:02 onishim    Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19            Cal File: AP90817D.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon                       Compound Sublist: S11JZHCB.SUB
Target Version:  4.14


Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

    Name         Value     Description
-------------- ---------- -----------------------
     DF           1.000   Dilution Factor
     Uf           1.000   ng unit correction factor
     Vt        1000.000   Volume of final extract (uL)
     Vo        1000.000   Volume of sample extracted (mL)
     Vi           1.000   Volume injected (uL)
Cpnd Variable             Local Compound Variable



                                                                                 CONCENTRATIONS
                                         QUANT SIG                             ON-COLUMN   FINAL
Compounds                                  MASS       RT    EXP RT  REL RT  RESPONSE   (   NG)   ( ug/L)
=========================                  ====      ====  ======== ======== ========  =======  =======
*    1 1,4-Dichlorobenzene-d4               152      3.851   3.851  (1.000)   161148   40.0000        (Q)
*    2 Naphthalene-d8                       136      5.271   5.271  (1.000)   656296   40.0000
*    3 Acenaphthene-d10                     164      7.364   7.374  (1.000)   357544   40.0000
*    4 Phenanthrene-d10                     188      9.281   9.281  (1.000)   574712   40.0000
*    5 Chrysene-d12                         240     13.634  13.644  (1.000)   528317   40.0000
*    6 Perylene-d12                         264     16.017  16.017  (1.000)   518272   40.0000
$    7 2-Fluorophenol                       112      2.638   2.638  (0.685)   307888   54.2042    54.20
$    8 Phenol-d5                             99      3.519   3.519  (0.914)   418016   58.5233    58.52
$   10 1,2-Dichlorobenzene-d4               152      4.058   4.058  (1.054)   123849   31.2058    31.20(qR)
$   11 Nitrobenzene-d5                       82      4.483   4.483  (0.851)   171156   30.7904    30.79
$   12 2-Fluorobiphenyl                     172      6.576   6.576  (0.893)   367669   31.9224    31.92
$   13 2,4,6-Tribromophenol                 330      8.369   8.369  (1.136)   141256   90.9182    90.92
$   14 Terphenyl-d14                        244     11.882  11.882  (0.872)   444714   42.7345    42.73
  108 Hexachlorobenzene                      284          Compound Not Detected.
```

SM 10/18/10

```
QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
q - Qualifier signal exceeded ratio warning limit.
```

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S101414.D
Lab Smp Id: L8A5R1AA G0J120000-
Analysis Type: SV
Quant Type: ISTD
Operator: srs
Method File: \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0285254;8270F.M

Calibration Date: 14-OCT-2010
Calibration Time: 14:50
Client Smp ID: 0285254
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	161148	31.42
2 Naphthalene-d8	530514	265257	1061028	656296	23.71
3 Acenaphthene-d10	282538	141269	565076	357544	26.55
4 Phenanthrene-d10	462722	231361	925444	574712	24.20
5 Chrysene-d12	435850	217925	871700	528317	21.22
6 Perylene-d12	422284	211142	844568	518272	22.73

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.85	3.35	4.35	3.85	0.00
2 Naphthalene-d8	5.27	4.77	5.77	5.27	0.00
3 Acenaphthene-d10	7.37	6.87	7.87	7.36	-0.14
4 Phenanthrene-d10	9.28	8.78	9.78	9.28	0.00
5 Chrysene-d12	13.64	13.14	14.14	13.63	-0.08
6 Perylene-d12	16.02	15.52	16.52	16.02	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\sv5\c\chem\sv5.i\101410a.B\S101414.D
Report Date: 18-Oct-2010 09:35

TestAmerica WestSacramento

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: L8A5R1AA G0J120000-
Level: LOW
Data Type: MS DATA
SpikeList File:
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0285254;8270F.M

Client SDG: 090498
Fraction: SV
Client Smp ID: 0285254
Operator: srs
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	54.20	54.20	41-105
$ 8 Phenol-d5	100.0	58.52	58.52	43-122
$ 10 1,2-Dichlorobenzen	100.0	31.20	31.21*	60-120
$ 11 Nitrobenzene-d5	50.00	30.79	61.58	46-118
$ 12 2-Fluorobiphenyl	50.00	31.92	63.84	58-105
$ 13 2,4,6-Tribromophen	100.0	90.92	90.92	61-118
$ 14 Terphenyl-d14	50.00	42.73	85.47	69-110

Data File: \\sv5\c\chem\sv5.i\101410a.B\S101414.D

Date : 14-OCT-2010 21:03

Client ID: 0285254

Instrument: sv5.i

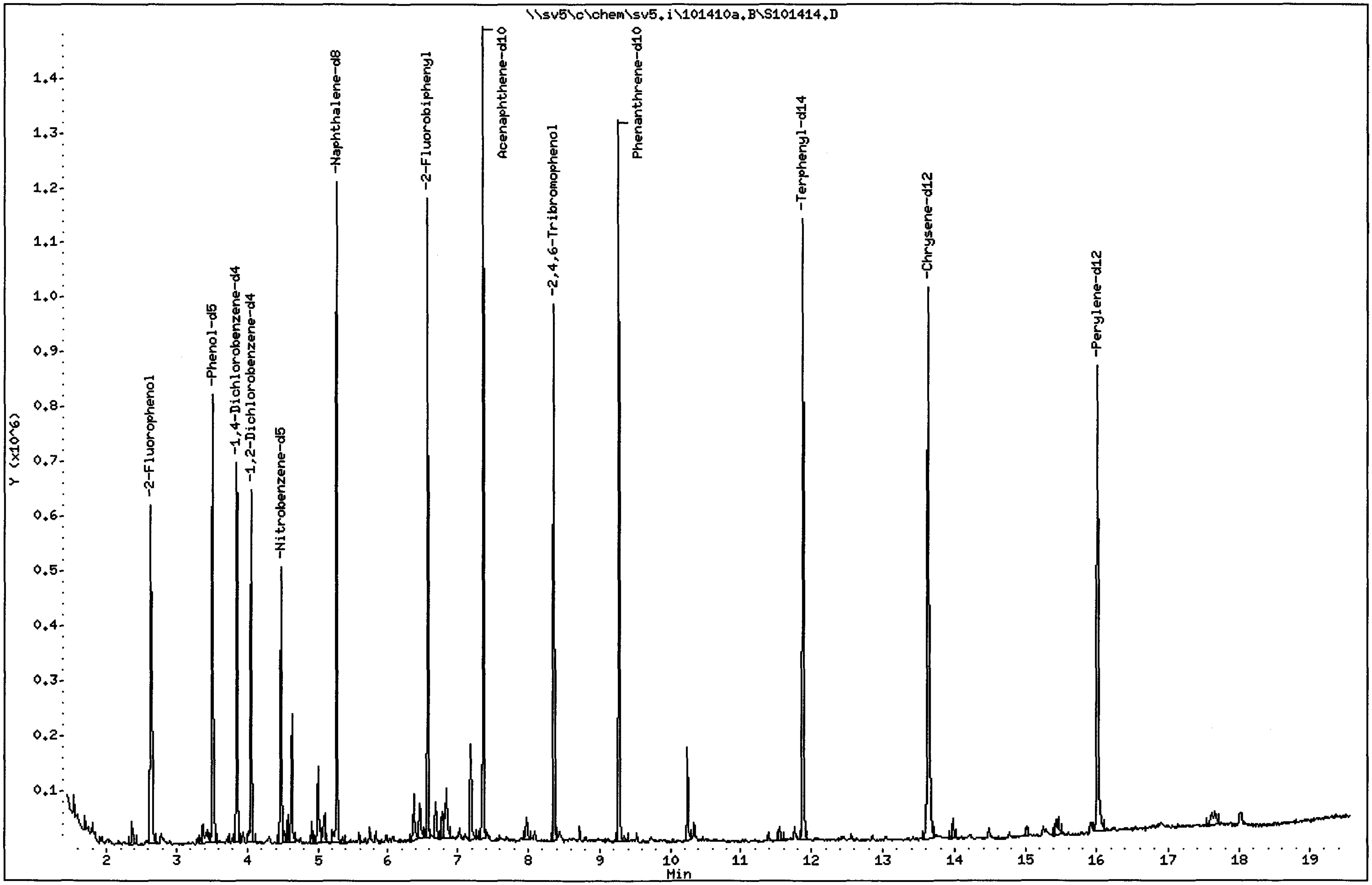
Sample Info: L8A5R1AA G0J120000-254B;0;;;1000;;1000;5

Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00



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Data File: \\sv5\c\chem\sv5.i\101410a.B\S101415.D                    Page 1
Report Date: 18-Oct-2010 11:14


                              TestAmerica WestSacramento

                                     Method 8270C
Data file : \\sv5\c\chem\sv5.i\101410a.B\S101415.D
Lab Smp Id: L8A5R1AC G0J120000-
Inj Date  : 14-OCT-2010 21:28
Operator  : srs                             Inst ID: sv5.i
Smp Info  : L8A5R1AC G0J120000-254C;3;LCS;;1000;;1000;2
Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Meth Date : 18-Oct-2010 09:02 onishim    Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19            Cal File: AP90817D.D
Als bottle: 22                           QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon                       Compound Sublist: S11JZHCB.SUB
Target Version:  4.14


Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

     Name        Value     Description
------------- ---------- ----------------------
     DF           1.000  Dilution Factor
     Uf           1.000  ng unit correction factor
     Vt        1000.000  Volume of final extract (uL)
     Vo        1000.000  Volume of sample extracted (mL)
     Vi           1.000  Volume injected (uL)
Cpnd Variable            Local Compound Variable


                                                                                      CONCENTRATIONS
                                      QUANT SIG                                     ON-COLUMN   FINAL
Compounds                               MASS        RT    EXP RT   REL RT  RESPONSE  (   NG)   ( ug/L)
==========================              ====       ====  ======== ======== ========  =======   =======
*    1 1,4-Dichlorobenzene-d4            152       3.861    3.851 (1.000)    151697  40.0000
*    2 Naphthalene-d8                    136       5.270    5.271 (1.000)    651992  40.0000
*    3 Acenaphthene-d10                  164       7.364    7.374 (1.000)    344783  40.0000
*    4 Phenanthrene-d10                  188       9.281    9.281 (1.000)    559419  40.0000
*    5 Chrysene-d12                      240      13.644   13.644 (1.000)    513426  40.0000
*    6 Perylene-d12                      264      16.017   16.017 (1.000)    518368  40.0000
$    7 2-Fluorophenol                    112       2.638    2.638 (0.683)    380573  71.1748     71.17
$    8 Phenol-d5                          99       3.519    3.519 (0.911)    513608  76.3863     76.39
$   10 1,2-Dichlorobenzene-d4             152          Compound Not Detected.
$   11 Nitrobenzene-d5                    82       4.483    4.483 (0.851)    205954  37.2951     37.30
$   12 2-Fluorobiphenyl                  172       6.576    6.576 (0.893)    460519  41.4638     41.46
$   13 2,4,6-Tribromophenol              330       8.369    8.369 (1.136)    147763  98.6264     98.63
$   14 Terphenyl-d14                     244      11.882   11.882 (0.871)    447135  44.2133     44.21
   108 Hexachlorobenzene                 284       8.866    8.867 (0.955)    279812  91.7490     91.75
```

SH 10/18/10

Data File: \\sv5\c\chem\sv5.i\101410a.B\S101415.D Page 1
Report Date: 18-Oct-2010 11:14

TestAmerica WestSacramento

RECOVERY REPORT

Client Name:
Client SDG: 090498
Sample Matrix: GAS
Fraction: SV
Lab Smp Id: L8A5R1AC G0J120000-
Level: LOW
Operator: srs
Data Type: MS DATA
SampleType: LCS
SpikeList File: S11JZHCB.SPK
Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	91.75	91.75	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	71.17	71.17	41-105
$ 8 Phenol-d5	100.0	76.39	76.39	43-122
$ 10 1,2-Dichlorobenze	100.0	0.0000	*	60-120
$ 11 Nitrobenzene-d5	50.00	37.30	74.59	46-118
$ 12 2-Fluorobiphenyl	50.00	41.46	82.93	58-105
$ 13 2,4,6-Tribromophen	100.0	98.63	98.63	61-118
$ 14 Terphenyl-d14	50.00	44.21	88.43	69-110

```
Data File: \\sv5\c\chem\sv5.i\101410a.B\S101415.D                    Page 1
Report Date: 18-Oct-2010 09:36


                                  TestAmerica WestSacramento

                                         Method 8270C
Data file : \\sv5\c\chem\sv5.i\101410a.B\S101415.D
Lab Smp Id: L8A5R1AC G0J120000-
Inj Date  : 14-OCT-2010 21:28
Operator  : srs                         Inst ID: sv5.i
Smp Info  : L8A5R1AC G0J120000-254C;3;LCS;;1000;;1000;2
Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Meth Date : 18-Oct-2010 09:02 onishim   Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19           Cal File: AP90817D.D
Als bottle: 22                          QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon                      Compound Sublist: S11JZHCB.SUB
Target Version:  4.14

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

     Name        Value     Description
-------------- ---------- -----------------------
      DF           1.000  Dilution Factor
      Uf           1.000  ng unit correction factor
      Vt        1000.000  Volume of final extract (uL)
      Vo        1000.000  Volume of sample extracted (mL)
      Vi           1.000  Volume injected (uL)
Cpnd Variable             Local Compound Variable


                                                                               CONCENTRATIONS
                                   QUANT SIG                                ON-COLUMN   FINAL
Compounds                            MASS     RT    EXP RT   REL RT  RESPONSE  (  NG)    ( ug/L)
==========================           ====   ====  ======== ======== ========  =======   =======
*   1 1,4-Dichlorobenzene-d4          152    3.861   3.851 (1.000)    151697  40.0000
*   2 Naphthalene-d8                  136    5.270   5.271 (1.000)    651992  40.0000
*   3 Acenaphthene-d10                164    7.364   7.374 (1.000)    344783  40.0000
*   4 Phenanthrene-d10                188    9.281   9.281 (1.000)    559419  40.0000
*   5 Chrysene-d12                    240   13.644  13.644 (1.000)    513426  40.0000
*   6 Perylene-d12                    264   16.017  16.017 (1.000)    518368  40.0000
$   7 2-Fluorophenol                  112    2.638   2.638 (0.683)    380573  71.1748     71.17
$   8 Phenol-d5                        99    3.519   3.519 (0.911)    513608  76.3863     76.39
$  10 1,2-Dichlorobenzene-d4          152    3.861   4.058 (1.000)    151697  40.6039     40.60(qR)
$  11 Nitrobenzene-d5                  82    4.483   4.483 (0.851)    205954  37.2951     37.30
$  12 2-Fluorobiphenyl                172    6.576   6.576 (0.893)    460519  41.4638     41.46
$  13 2,4,6-Tribromophenol            330    8.369   8.369 (1.136)    147763  98.6264     98.63
$  14 Terphenyl-d14                   244   11.882  11.882 (0.871)    447135  44.2133     44.21
  108 Hexachlorobenzene               284    8.866   8.867 (0.955)    279812  91.7490     91.75

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
q - Qualifier signal exceeded ratio warning limit.
```

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S101415.D
Lab Smp Id: L8A5R1AC G0J120000-
Analysis Type: SV
Quant Type: ISTD
Operator: srs
Method File: \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 14-OCT-2010
Calibration Time: 14:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	151697	23.71
2 Naphthalene-d8	530514	265257	1061028	651992	22.90
3 Acenaphthene-d10	282538	141269	565076	344783	22.03
4 Phenanthrene-d10	462722	231361	925444	559419	20.90
5 Chrysene-d12	435850	217925	871700	513426	17.80
6 Perylene-d12	422284	211142	844568	518368	22.75

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.85	3.35	4.35	3.86	0.27
2 Naphthalene-d8	5.27	4.77	5.77	5.27	-0.00
3 Acenaphthene-d10	7.37	6.87	7.87	7.36	-0.14
4 Phenanthrene-d10	9.28	8.78	9.78	9.28	-0.00
5 Chrysene-d12	13.64	13.14	14.14	13.64	-0.00
6 Perylene-d12	16.02	15.52	16.52	16.02	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica WestSacramento

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: L8A5R1AC G0J120000-
Level: LOW
Data Type: MS DATA
SpikeList File: S11JZHCB.SPK
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Client SDG: 090498
Fraction: SV

Operator: srs
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	91.75	91.75	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	71.17	71.17	41-105
$ 8 Phenol-d5	100.0	76.39	76.39	43-122
$ 10 1,2-Dichlorobenzen	100.0	40.60	40.60*	60-120
$ 11 Nitrobenzene-d5	50.00	37.30	74.59	46-118
$ 12 2-Fluorobiphenyl	50.00	41.46	82.93	58-105
$ 13 2,4,6-Tribromophen	100.0	98.63	98.63	61-118
$ 14 Terphenyl-d14	50.00	44.21	88.43	69-110

Data File: \\sv5\c\chem\sv5.i\101410a.B\S101415.D

Date : 14-OCT-2010 21:28

Client ID:

Instrument: sv5.i

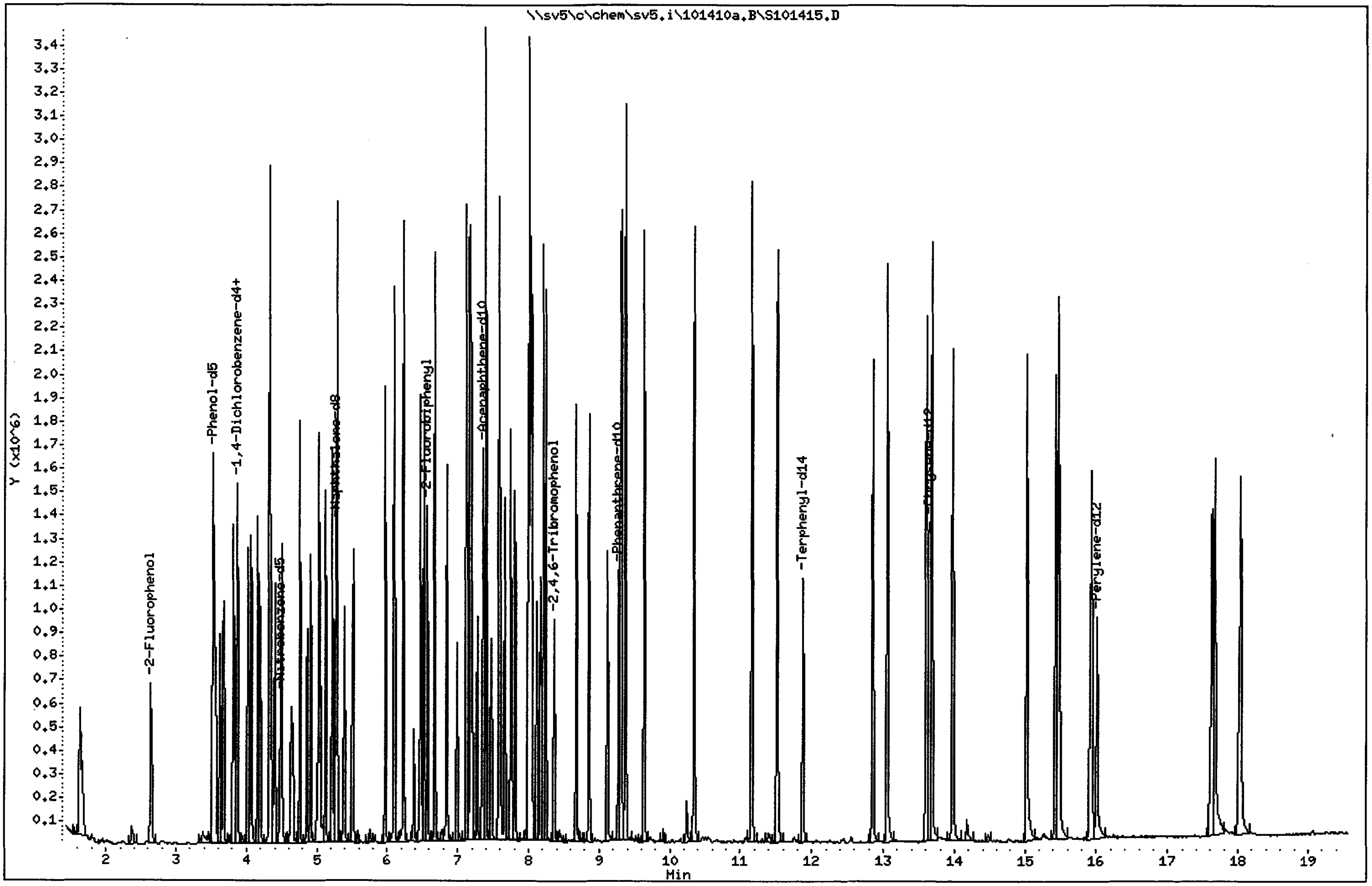
Sample Info: L8A5R1AC G0J120000-254C;3;LCS;;1000;;1000;2

Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00



Data File: \\sv5\c\chem\sv5.i\101410a.B\S101415.D

Date : 14-OCT-2010 21:28

Client ID:

Instrument: sv5.i

Sample Info: L8A5R1AC G0J120000-254C;3;LCS;;1000;;1000;2

Volume Injected (uL): 1.0

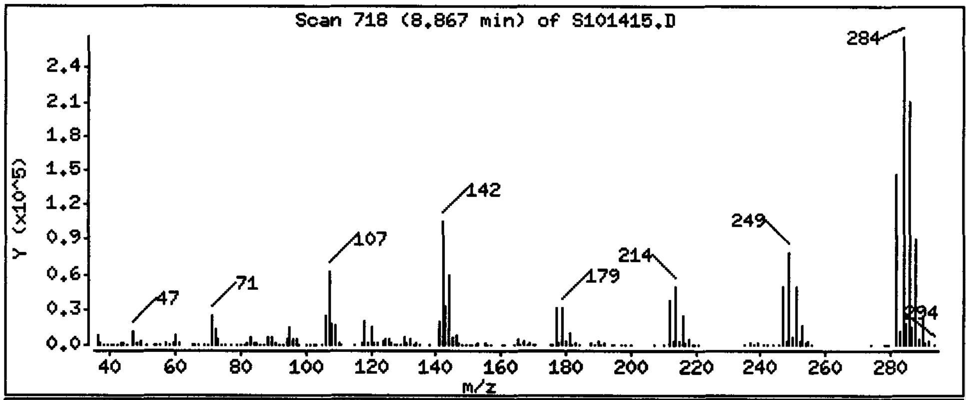
Operator: srs

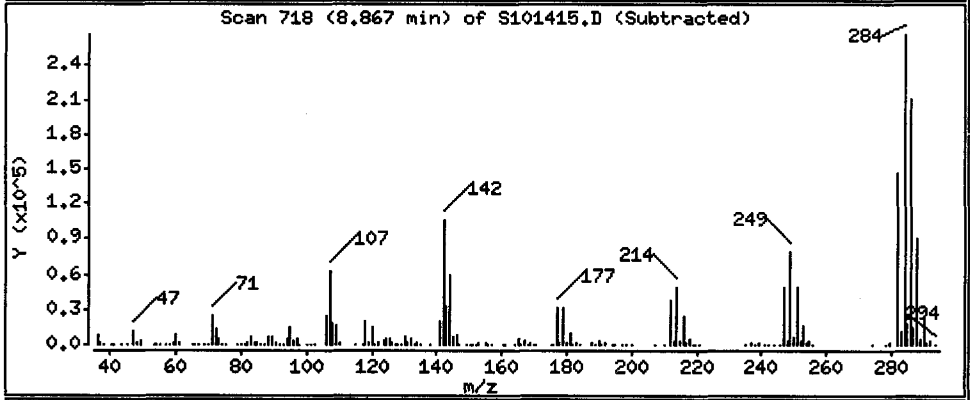
Column phase:

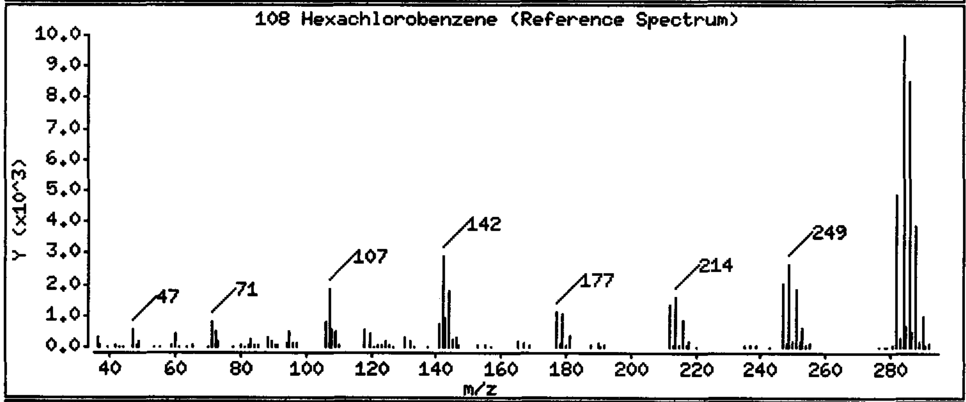
Column diameter: 2.00

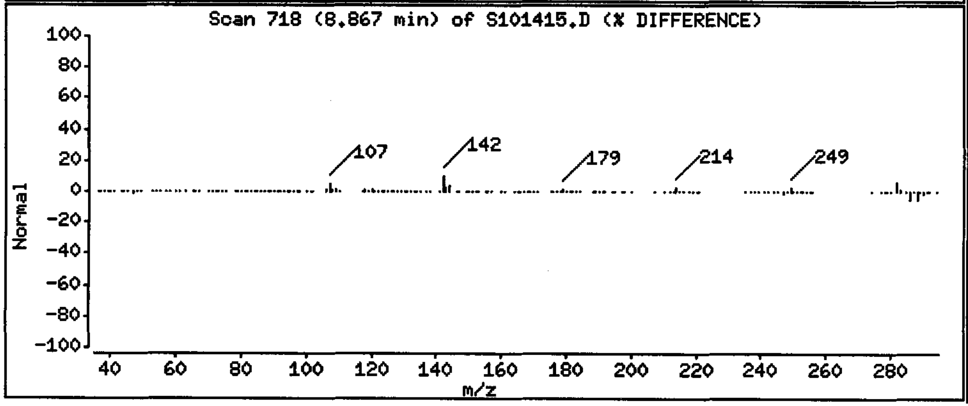
108 Hexachlorobenzene

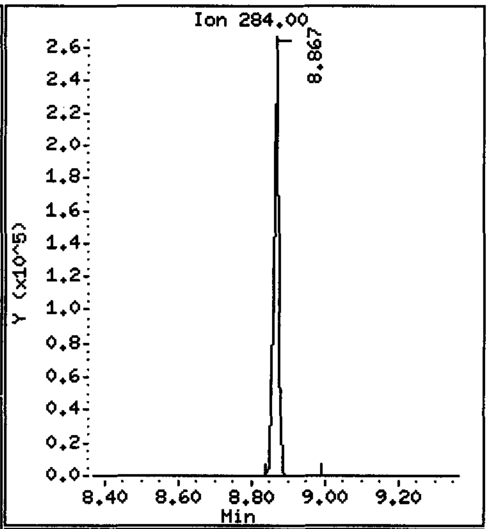
Concentration: 91.75 ug/L

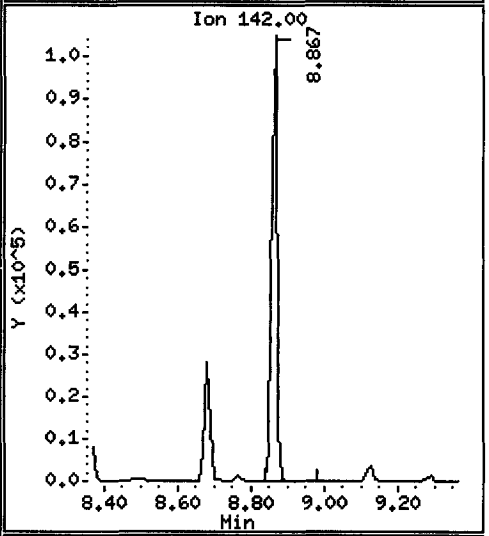


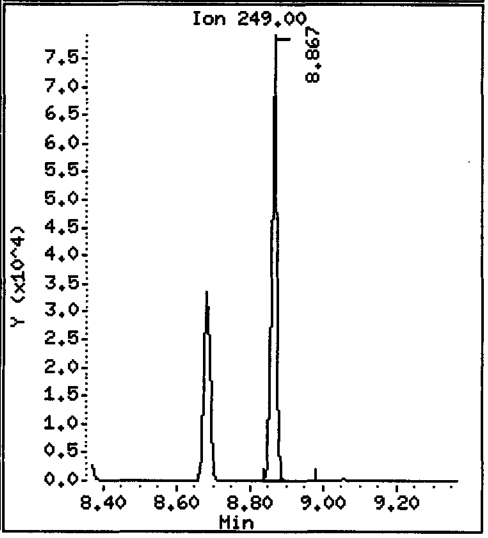












```
Data File: \\sv5\c\chem\sv5.i\101410a.B\S101416.D                    Page 1
Report Date: 18-Oct-2010 11:15


                             TestAmerica WestSacramento

                                    Method 8270C
Data file : \\sv5\c\chem\sv5.i\101410a.B\S101416.D
Lab Smp Id: L8A5R1AD G0J120000-
Inj Date  : 14-OCT-2010 21:53
Operator  : srs                          Inst ID: sv5.i
Smp Info  : L8A5R1AD G0J120000-254L;3;LCSD;;1000;;1000;2
Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Meth Date : 18-Oct-2010 09:02 onishim    Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19            Cal File: AP90817D.D
Als bottle: 23                           QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon                       Compound Sublist: S11JZHCB.SUB
Target Version:  4.14

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

     Name         Value     Description
-------------- ---------- ----------------------
      DF          1.000   Dilution Factor
      Uf          1.000   ng unit correction factor
      Vt       1000.000   Volume of final extract (uL)
      Vo       1000.000   Volume of sample extracted (mL)
      Vi          1.000   Volume injected (uL)
Cpnd Variable             Local Compound Variable


                                                                                      CONCENTRATIONS
                                      QUANT SIG                                     ON-COLUMN    FINAL
Compounds                                MASS        RT    EXP RT   REL RT  RESPONSE  (    NG)   ( ug/L)
==========================               ====      ==== ======== ======== ========   =======   =======
*    1 1,4-Dichlorobenzene-d4             152      3.861    3.851 (1.000)    125900   40.0000
*    2 Naphthalene-d8                     136      5.271    5.271 (1.000)    524080   40.0000
*    3 Acenaphthene-d10                   164      7.364    7.374 (1.000)    268342   40.0000
*    4 Phenanthrene-d10                   188      9.281    9.281 (1.000)    411757   40.0000
*    5 Chrysene-d12                       240     13.634   13.644 (1.000)    323867   40.0000
*    6 Perylene-d12                       264     16.017   16.017 (1.000)    331953   40.0000
$    7 2-Fluorophenol                     112      2.638    2.638 (0.683)    307502   69.2927     69.29
$    8 Phenol-d5                           99      3.530    3.519 (0.914)    409257   73.3384     73.34
$   10 1,2-Dichlorobenzene-d4             152        Compound Not Detected.
$   11 Nitrobenzene-d5                     82      4.483    4.483 (0.851)    166027   37.4028     37.40
$   12 2-Fluorobiphenyl                   172      6.576    6.576 (0.893)    358880   41.5172     41.52
$   13 2,4,6-Tribromophenol               330      8.369    8.369 (1.136)    109694   94.0735     94.07
$   14 Terphenyl-d14                      244     11.882   11.882 (0.872)    283116   44.3803     44.38
   108 Hexachlorobenzene                  284      8.867    8.867 (0.955)    212105   94.4892     94.49
```

Sh10/18/10

Report Date: 18-Oct-2010 11:15

TestAmerica WestSacramento

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: L8A5R1AD G0J120000-
Level: LOW
Data Type: MS DATA
SpikeList File: S11JZHCB.SPK
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Client SDG: 090498
Fraction: SV

Operator: srs
SampleType: LCSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	94.49	94.49	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	69.29	69.29	41-105
$ 8 Phenol-d5	100.0	73.34	73.34	43-122
$ 10 1,2-Dichlorobenze	100.0	0.0000	*	60-120
$ 11 Nitrobenzene-d5	50.00	37.40	74.81	46-118
$ 12 2-Fluorobiphenyl	50.00	41.52	83.03	58-105
$ 13 2,4,6-Tribromophen	100.0	94.07	94.07	61-118
$ 14 Terphenyl-d14	50.00	44.38	88.76	69-110

```
Data File: \\sv5\c\chem\sv5.i\101410a.B\S101416.D                    Page 1
Report Date: 18-Oct-2010 09:37


                            TestAmerica WestSacramento

                                   Method 8270C
Data file : \\sv5\c\chem\sv5.i\101410a.B\S101416.D
Lab Smp Id: L8A5R1AD G0J120000-
Inj Date  : 14-OCT-2010 21:53
Operator  : srs                           Inst ID: sv5.i
Smp Info  : L8A5R1AD G0J120000-254L;3;LCSD;;1000;;1000;2
Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Meth Date : 18-Oct-2010 09:02 onishim     Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19             Cal File: AP90817D.D
Als bottle: 23                            QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon                        Compound Sublist: S11JZHCB.SUB
Target Version:  4.14

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

     Name        Value     Description
-------------- ---------- -----------------------
      DF          1.000   Dilution Factor
      Uf          1.000   ng unit correction factor
      Vt       1000.000   Volume of final extract (uL)
      Vo       1000.000   Volume of sample extracted (mL)
      Vi          1.000   Volume injected (uL)
Cpnd Variable             Local Compound Variable
```

```
                                                                           CONCENTRATIONS
                                     QUANT SIG                             ON-COLUMN   FINAL
Compounds                              MASS      RT    EXP RT   REL RT  RESPONSE  (   NG)   ( ug/L)
==========================             ====    ====  ======== ======== ========  =======   =======
*   1 1,4-Dichlorobenzene-d4           152     3.861    3.851 (1.000)    125900  40.0000
*   2 Naphthalene-d8                   136     5.271    5.271 (1.000)    524080  40.0000
*   3 Acenaphthene-d10                 164     7.364    7.374 (1.000)    268342  40.0000
*   4 Phenanthrene-d10                 188     9.281    9.281 (1.000)    411757  40.0000
*   5 Chrysene-d12                     240    13.634   13.644 (1.000)    323867  40.0000
*   6 Perylene-d12                     264    16.017   16.017 (1.000)    331953  40.0000
$   7 2-Fluorophenol                   112     2.638    2.638 (0.683)    307502  69.2927     69.29
$   8 Phenol-d5                         99     3.530    3.519 (0.914)    409257  73.3384     73.34
$  10 1,2-Dichlorobenzene-d4           152     3.861    4.058 (1.000)    125900  40.6039     40.60(qR)
$  11 Nitrobenzene-d5                   82     4.483    4.483 (0.851)    166027  37.4028     37.40
$  12 2-Fluorobiphenyl                 172     6.576    6.576 (0.893)    358880  41.5172     41.52
$  13 2,4,6-Tribromophenol             330     8.369    8.369 (1.136)    109694  94.0735     94.07
$  14 Terphenyl-d14                    244    11.882   11.882 (0.872)    283116  44.3803     44.38
  108 Hexachlorobenzene                284     8.867    8.867 (0.955)    212105  94.4892     94.49
```

```
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
q - Qualifier signal exceeded ratio warning limit.
```

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S101416.D
Lab Smp Id: L8A5R1AD G0J120000-
Analysis Type: SV
Quant Type: ISTD
Operator: srs
Method File: \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 14-OCT-2010
Calibration Time: 14:50
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	125900	2.67
2 Naphthalene-d8	530514	265257	1061028	524080	-1.21
3 Acenaphthene-d10	282538	141269	565076	268342	-5.02
4 Phenanthrene-d10	462722	231361	925444	411757	-11.01
5 Chrysene-d12	435850	217925	871700	323867	-25.69
6 Perylene-d12	422284	211142	844568	331953	-21.39

COMPOUND	STANDARD	RT LIMIT LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.85	3.35	4.35	3.86	0.27
2 Naphthalene-d8	5.27	4.77	5.77	5.27	0.00
3 Acenaphthene-d10	7.37	6.87	7.87	7.36	-0.14
4 Phenanthrene-d10	9.28	8.78	9.78	9.28	0.00
5 Chrysene-d12	13.64	13.14	14.14	13.63	-0.08
6 Perylene-d12	16.02	15.52	16.52	16.02	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica WestSacramento

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: L8A5R1AD G0J120000-
Level: LOW
Data Type: MS DATA
SpikeList File: S11JZHCB.SPK
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Client SDG: 090498
Fraction: SV

Operator: srs
SampleType: LCSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	94.49	94.49	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	69.29	69.29	41-105
$ 8 Phenol-d5	100.0	73.34	73.34	43-122
$ 10 1,2-Dichlorobenzen	100.0	40.60	40.60*	60-120
$ 11 Nitrobenzene-d5	50.00	37.40	74.81	46-118
$ 12 2-Fluorobiphenyl	50.00	41.52	83.03	58-105
$ 13 2,4,6-Tribromophen	100.0	94.07	94.07	61-118
$ 14 Terphenyl-d14	50.00	44.38	88.76	69-110

Data File: \\sv5\c\chem\sv5.i\101410a.B\S101416.D

Page 4

Date : 14-OCT-2010 21:53

Client ID:

Instrument: sv5.i

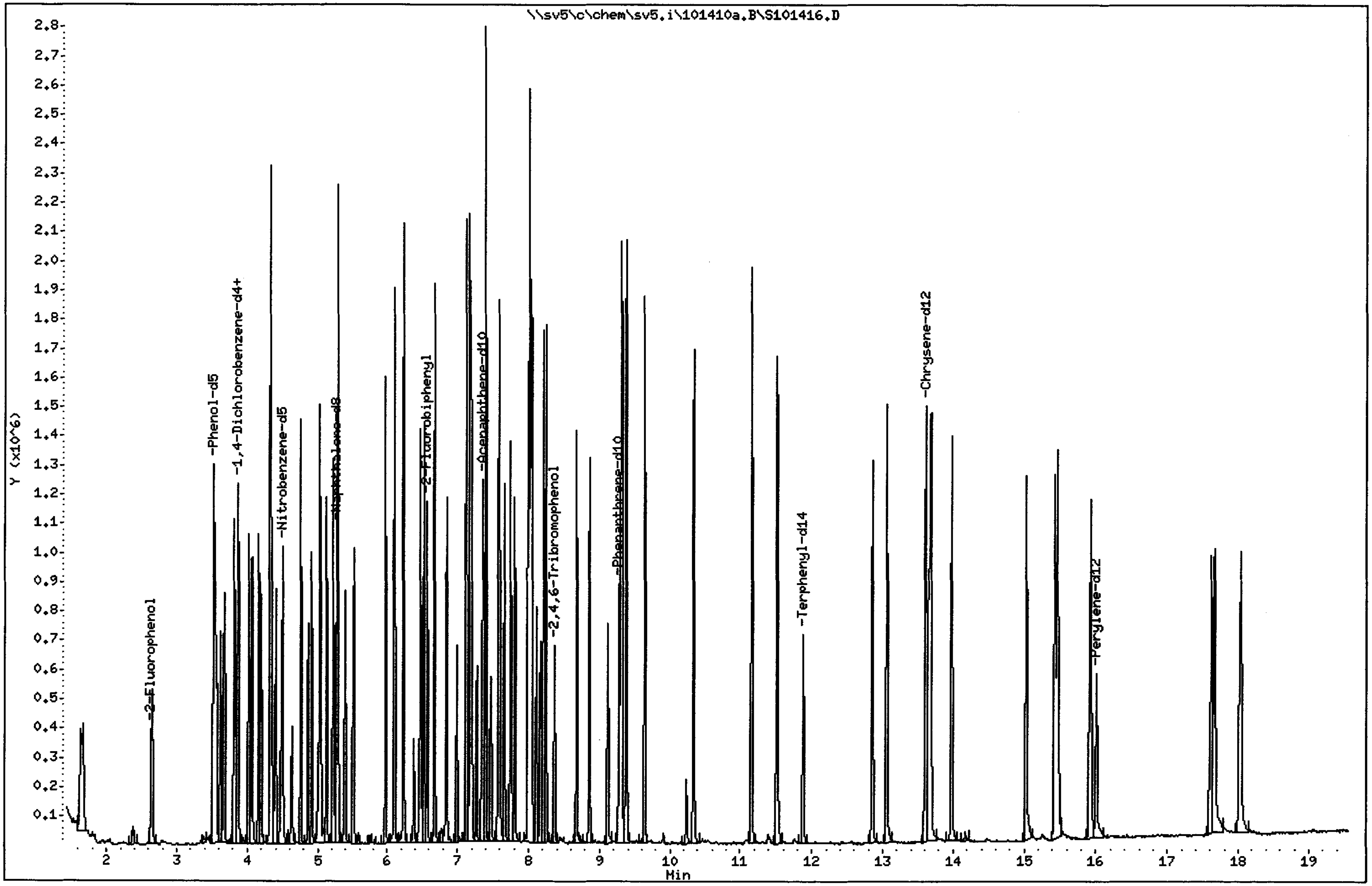
Sample Info: L8A5R1AD G0J120000-254L;3;LCSD;;1000;;1000;2

Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00



Data File: \\sv5\c\chem\sv5.i\101410a.B\S101416.D

Date : 14-OCT-2010 21:53

Client ID:

Instrument: sv5.i

Sample Info: L8A5R1AD G0J120000-254L;3;LCSD;;1000;;1000;2

Volume Injected (uL): 1.0

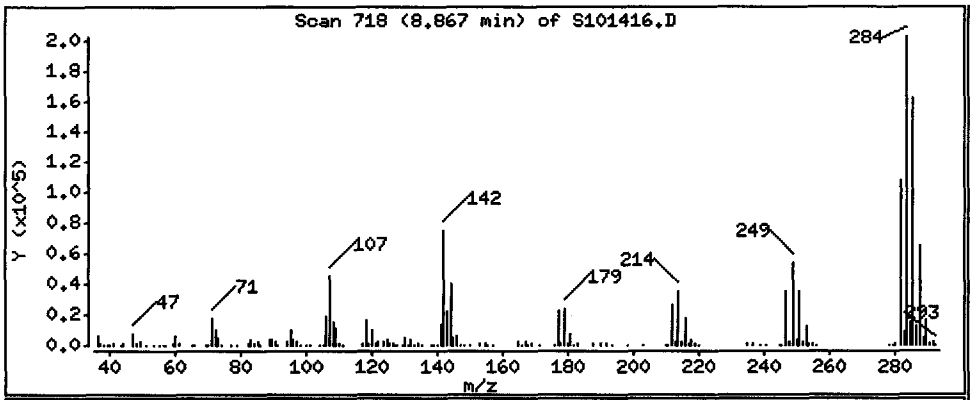
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 94.49 ug/L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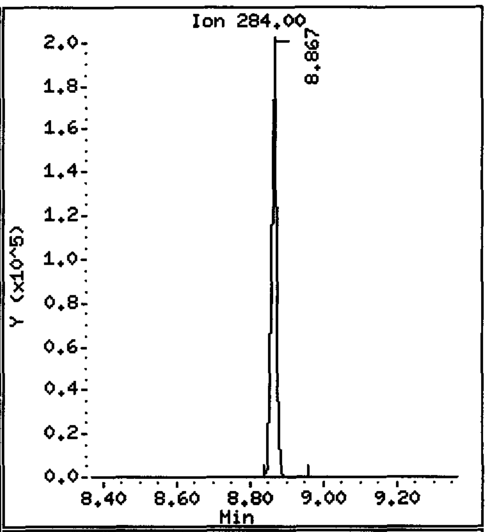
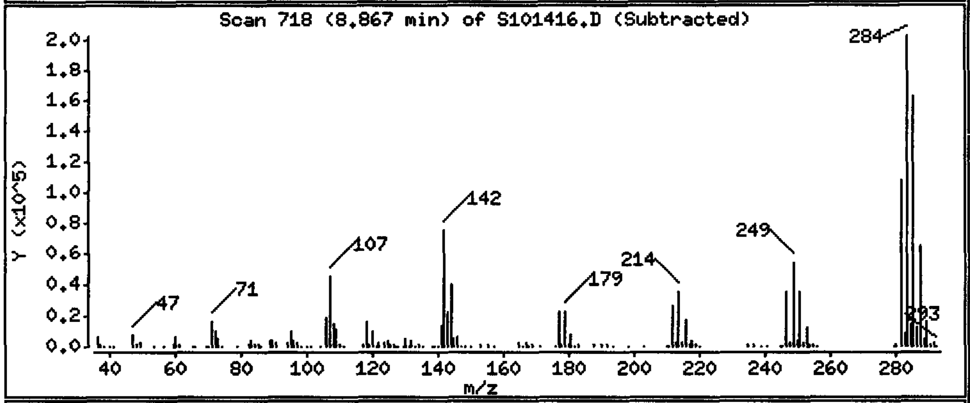
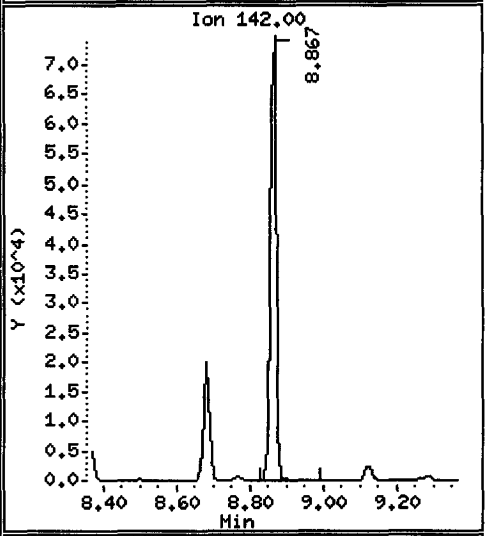
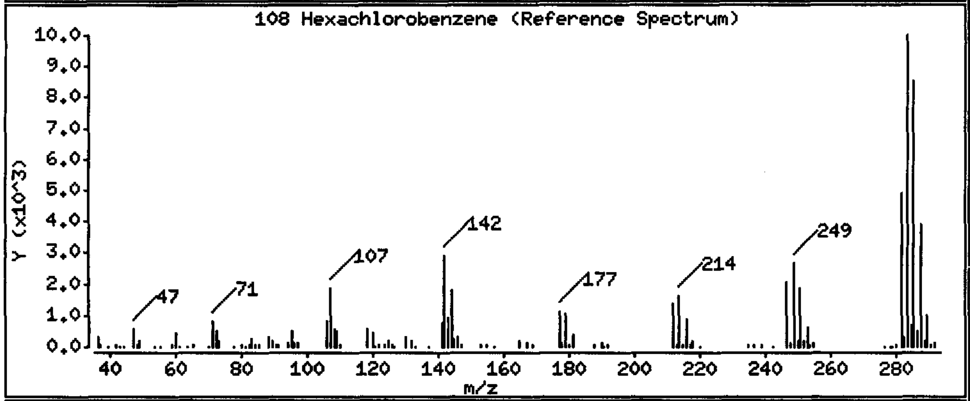
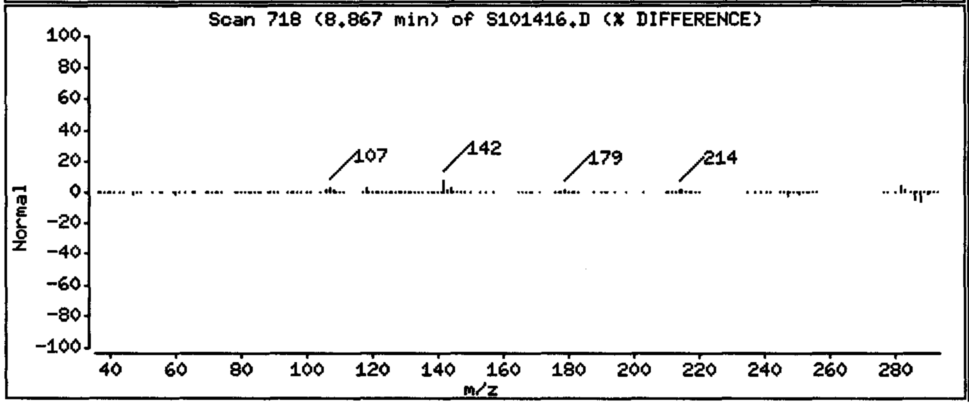

Ion 284.00


Scan 718 (8.867 min) of S101416.D (Subtracted)


Ion 142.00


108 Hexachlorobenzene (Reference Spectrum)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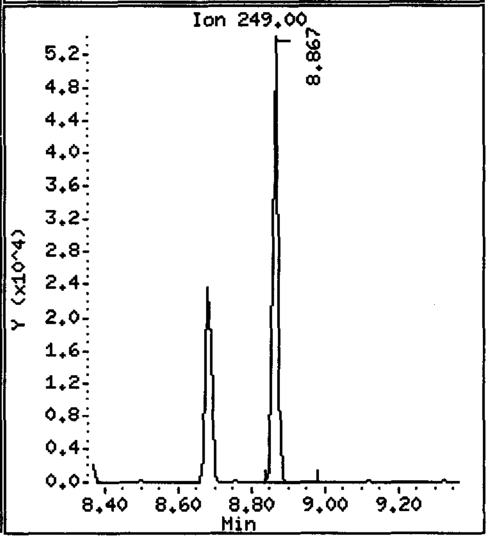
Ion 249.00

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Data File: \\sv5\c\chem\sv5.i\101410a.B\S101417.D                    Page 1
Report Date: 18-Oct-2010 09:38


                              TestAmerica WestSacramento

                                     Method 8270C
Data file : \\sv5\c\chem\sv5.i\101410a.B\S101417.D
Lab Smp Id: L8AK61AA G0J120429-          Client Smp ID: 0285254
Inj Date  : 14-OCT-2010 22:18
Operator  : srs                          Inst ID: sv5.i
Smp Info  : L8AK61AA G0J120429-1;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0285254;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Meth Date : 18-Oct-2010 09:02 onishim    Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19            Cal File: AP90817D.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: Falcon                       Compound Sublist: S11JZHCB.SUB
Target Version:  4.14

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

     Name        Value     Description
-------------- ---------- ----------------------
      DF          1.000   Dilution Factor
      Uf          1.000   ng unit correction factor
      Vt       1000.000   Volume of final extract (uL)
      Vo       1000.000   Volume of sample extracted (mL)
      Vi          1.000   Volume injected (uL)
Cpnd Variable             Local Compound Variable


                                                                                   CONCENTRATIONS
                                       QUANT SIG                                 ON-COLUMN    FINAL
Compounds                                MASS        RT    EXP RT   REL RT  RESPONSE  (    NG)   ( ug/L)
==========================               ====       ====  ======== ======== ========   =======   =======
*    1 1,4-Dichlorobenzene-d4             152      3.851    3.851 (1.000)    145171   40.0000          (Q)
*    2 Naphthalene-d8                     136      5.271    5.271 (1.000)    624101   40.0000
*    3 Acenaphthene-d10                   164      7.364    7.374 (1.000)    344095   40.0000
*    4 Phenanthrene-d10                   188      9.281    9.281 (1.000)    576527   40.0000
*    5 Chrysene-d12                       240     13.634   13.644 (1.000)    563830   40.0000
*    6 Perylene-d12                       264     16.017   16.017 (1.000)    584952   40.0000
$    7 2-Fluorophenol                     112      2.638    2.638 (0.685)    346414   67.6988     67.70
$    8 Phenol-d5                           99      3.519    3.519 (0.914)    497582   77.3296     77.33
$   10 1,2-Dichlorobenzene-d4             152      4.058    4.058 (1.054)     93383   26.1190     26.12(QR)
$   11 Nitrobenzene-d5                     82      4.483    4.483 (0.851)    185242   35.0435     35.04
$   12 2-Fluorobiphenyl                   172      6.576    6.576 (0.893)    422360   38.1041     38.10
$   13 2,4,6-Tribromophenol               330      8.369    8.369 (1.136)    146861   98.2203     98.22
$   14 Terphenyl-d14                      244     11.882   11.882 (0.872)    468162   42.1542     42.15
   108 Hexachlorobenzene                   284          Compound Not Detected.
```

SM 10/18/10

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S101417.D
Lab Smp Id: L8AK61AA G0J120429-
Analysis Type: SV
Quant Type: ISTD
Operator: srs
Method File: \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0285254;8270F.M

Calibration Date: 14-OCT-2010
Calibration Time: 14:50
Client Smp ID: 0285254
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	145171	18.39
2 Naphthalene-d8	530514	265257	1061028	624101	17.64
3 Acenaphthene-d10	282538	141269	565076	344095	21.79
4 Phenanthrene-d10	462722	231361	925444	576527	24.59
5 Chrysene-d12	435850	217925	871700	563830	29.36
6 Perylene-d12	422284	211142	844568	584952	38.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.85	3.35	4.35	3.85	0.00
2 Naphthalene-d8	5.27	4.77	5.77	5.27	0.00
3 Acenaphthene-d10	7.37	6.87	7.87	7.36	-0.14
4 Phenanthrene-d10	9.28	8.78	9.78	9.28	0.00
5 Chrysene-d12	13.64	13.14	14.14	13.63	-0.08
6 Perylene-d12	16.02	15.52	16.52	16.02	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 18-Oct-2010 09:38

TestAmerica WestSacramento

RECOVERY REPORT

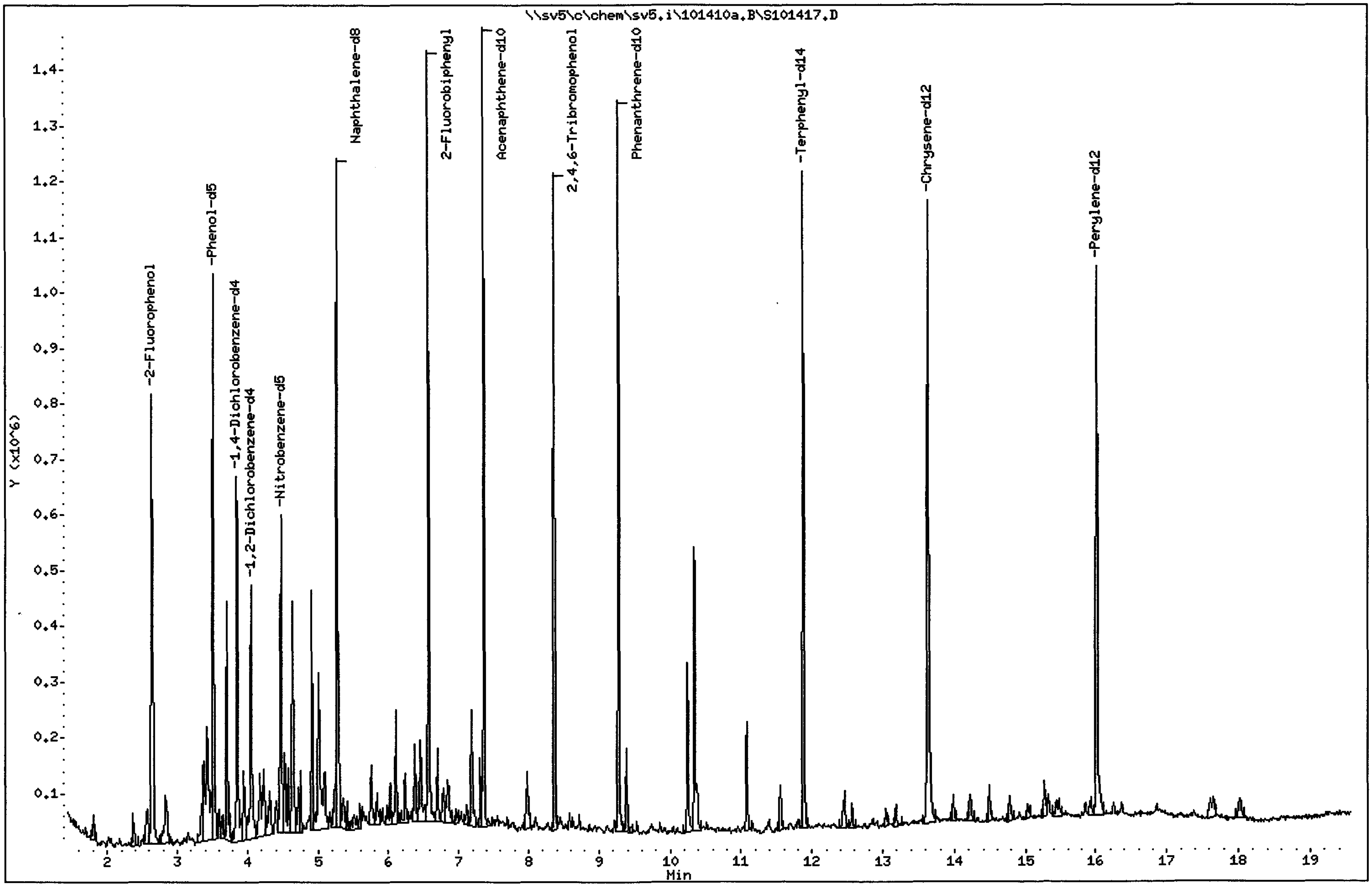
Client Name:
Client SDG: 090498
Sample Matrix: GAS
Fraction: SV
Lab Smp Id: L8AK61AA G0J120429-
Client Smp ID: 0285254
Level: LOW
Operator: srs
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0285254;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	67.70	67.70	41-105
$ 8 Phenol-d5	100.0	77.33	77.33	43-122
$ 10 1,2-Dichlorobenzen	100.0	26.12	26.12*	60-120
$ 11 Nitrobenzene-d5	50.00	35.04	70.09	46-118
$ 12 2-Fluorobiphenyl	50.00	38.10	76.21	58-105
$ 13 2,4,6-Tribromophen	100.0	98.22	98.22	61-118
$ 14 Terphenyl-d14	50.00	42.15	84.31	69-110

Data File: \\sv5\c\chem\sv5.i\101410a.B\S101417.D
Date : 14-OCT-2010 22:18
Client ID: 0285254
Sample Info: L8AK61AA G0J120429-1;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Column phase:

Instrument: sv5.i

Operator: srs
Column diameter: 2.00



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Data File: \\sv5\c\chem\sv5.i\101410a.B\S101418.D                  Page 1
Report Date: 18-Oct-2010 09:38


                                  TestAmerica WestSacramento

                                         Method 8270C
Data file : \\sv5\c\chem\sv5.i\101410a.B\S101418.D
Lab Smp Id: L8ALF1AA G0J120429-         Client Smp ID: 0285254
Inj Date  : 14-OCT-2010 22:43
Operator  : srs                         Inst ID: sv5.i
Smp Info  : L8ALF1AA G0J120429-4;0;;;1000;;1000;5
Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0285254;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Meth Date : 18-Oct-2010 09:02 onishim   Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19           Cal File: AP90817D.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon                      Compound Sublist: S11JZHCB.SUB
Target Version:  4.14


Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

     Name         Value     Description
-------------- ---------- ----------------------
      DF          1.000   Dilution Factor
      Uf          1.000   ng unit correction factor
      Vt       1000.000   Volume of final extract (uL)
      Vo       1000.000   Volume of sample extracted (mL)
      Vi          1.000   Volume injected (uL)
Cpnd Variable             Local Compound Variable



                                                                                      CONCENTRATIONS
                                                    QUANT SIG                          ON-COLUMN    FINAL
Compounds                                              MASS     RT    EXP RT  REL RT  RESPONSE   (    NG)    ( ug/L)
==========================                             ====    ====  ======== ======== ========   =======    =======
*   1 1,4-Dichlorobenzene-d4                            152    3.851   3.851  (1.000)    118023   40.0000            (Q)
*   2 Naphthalene-d8                                    136    5.271   5.271  (1.000)    519461   40.0000
*   3 Acenaphthene-d10                                  164    7.364   7.374  (1.000)    288491   40.0000
*   4 Phenanthrene-d10                                  188    9.281   9.281  (1.000)    465593   40.0000
*   5 Chrysene-d12                                      240   13.634  13.644  (1.000)    492061   40.0000
*   6 Perylene-d12                                      264   16.017  16.017  (1.000)    530647   40.0000
$   7 2-Fluorophenol                                    112    2.638   2.638  (0.685)    263656   63.3777     63.38
$   8 Phenol-d5                                          99    3.519   3.519  (0.914)    372080   71.1264     71.13
$  10 1,2-Dichlorobenzene-d4                            152    4.058   4.058  (1.054)     82863   28.5077     28.51(QR)
$  11 Nitrobenzene-d5                                    82    4.483   4.483  (0.851)    148368   33.7218     33.72
$  12 2-Fluorobiphenyl                                  172    6.576   6.576  (0.893)    322369   34.6888     34.69
$  13 2,4,6-Tribromophenol                              330    8.369   8.369  (1.136)    125962   100.480     100.5
$  14 Terphenyl-d14                                     244   11.882  11.882  (0.872)    422240   43.5645     43.56
  108 Hexachlorobenzene                                 284    8.867   8.867  (0.955)     14271   5.62238     5.622

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
```

SK 10/18/10

Data File: \\sv5\c\chem\sv5.i\101410a.B\S101418.D
Report Date: 18-Oct-2010 09:38

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: S101418.D
Lab Smp Id: L8ALF1AA G0J120429-
Analysis Type: SV
Quant Type: ISTD
Operator: srs
Method File: \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0285254;8270F.M

Calibration Date: 14-OCT-2010
Calibration Time: 14:50
Client Smp ID: 0285254
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	118023	-3.75
2 Naphthalene-d8	530514	265257	1061028	519461	-2.08
3 Acenaphthene-d10	282538	141269	565076	288491	2.11
4 Phenanthrene-d10	462722	231361	925444	465593	0.62
5 Chrysene-d12	435850	217925	871700	492061	12.90
6 Perylene-d12	422284	211142	844568	530647	25.66

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.85	3.35	4.35	3.85	0.00
2 Naphthalene-d8	5.27	4.77	5.77	5.27	0.00
3 Acenaphthene-d10	7.37	6.87	7.87	7.36	-0.14
4 Phenanthrene-d10	9.28	8.78	9.78	9.28	0.00
5 Chrysene-d12	13.64	13.14	14.14	13.63	-0.08
6 Perylene-d12	16.02	15.52	16.52	16.02	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica WestSacramento

RECOVERY REPORT

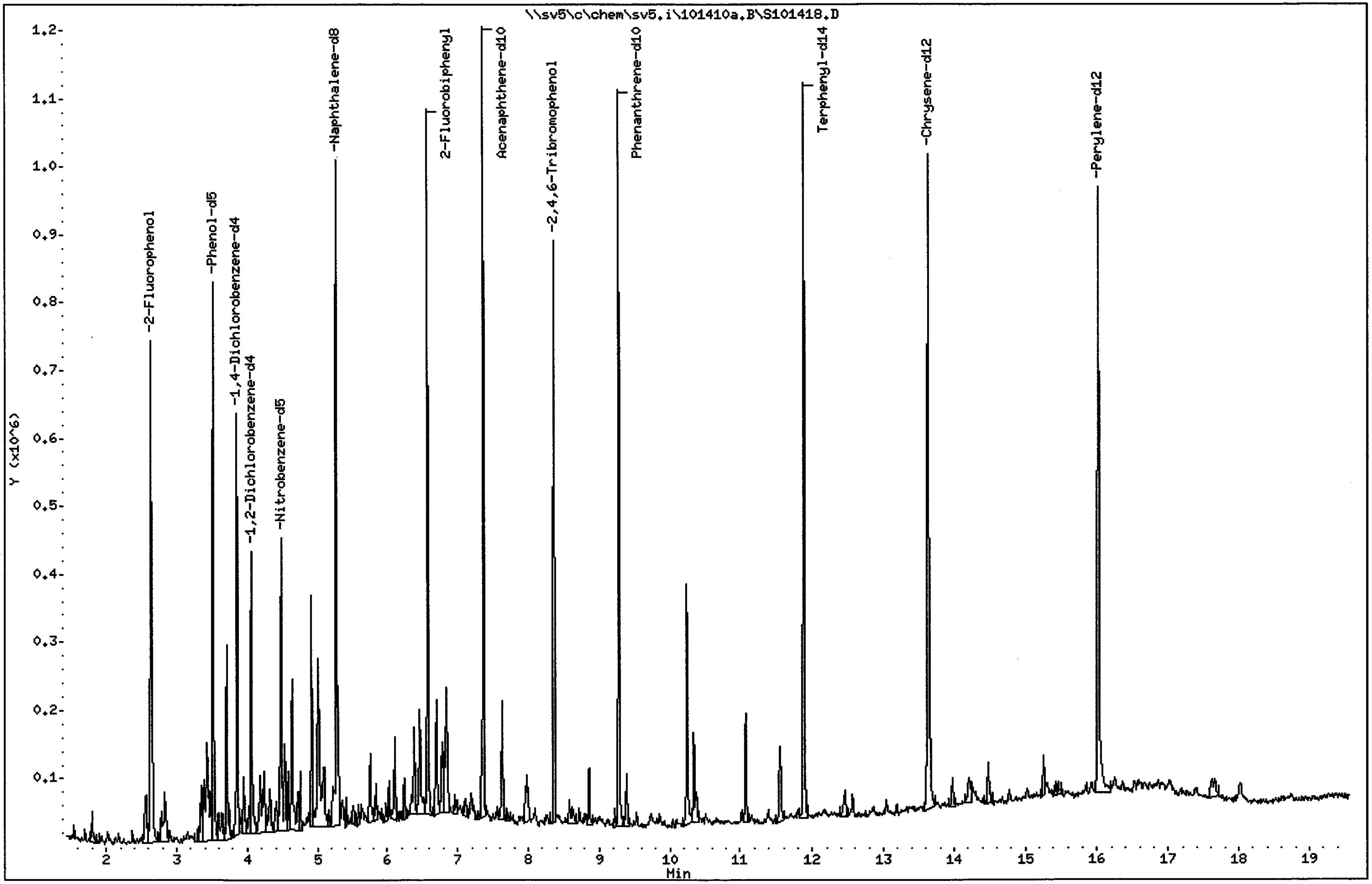
Client Name:
Sample Matrix: GAS
Lab Smp Id: L8ALF1AA G0J120429-
Level: LOW
Data Type: MS DATA
SpikeList File:
Sublist File: S11JZHCB.SUB
Method File: \\sv5\c\chem\sv5.i\101410a.B\8270f.m
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0285254;8270F.M

Client SDG: 090498
Fraction: SV
Client Smp ID: 0285254
Operator: srs
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 7 2-Fluorophenol	100.0	63.38	63.38	41-105
$ 8 Phenol-d5	100.0	71.13	71.13	43-122
$ 10 1,2-Dichlorobenzen	100.0	28.51	28.51*	60-120
$ 11 Nitrobenzene-d5	50.00	33.72	67.44	46-118
$ 12 2-Fluorobiphenyl	50.00	34.69	69.38	58-105
$ 13 2,4,6-Tribromophen	100.0	100.5	100.48	61-118
$ 14 Terphenyl-d14	50.00	43.56	87.13	69-110

Data File: \\sv5\c\chem\sv5.i\101410a.B\S101418.D

Date : 14-OCT-2010 22:43
Client ID: 0285254
Instrument: sv5.i
Sample Info: L8ALF1AA G0J120429-4;0;;;1000;;1000;5
Volume Injected (uL): 1.0
Operator: srs
Column phase:
Column diameter: 2.00



Data File: \\sv5\c\chem\sv5.i\101410a.B\S101418.D

Date : 14-OCT-2010 22:43

Client ID: 0285254

Instrument: sv5.i

Sample Info: L8ALF1AA G0J120429-4;0;;;1000;;1000;5

Volume Injected (uL): 1.0

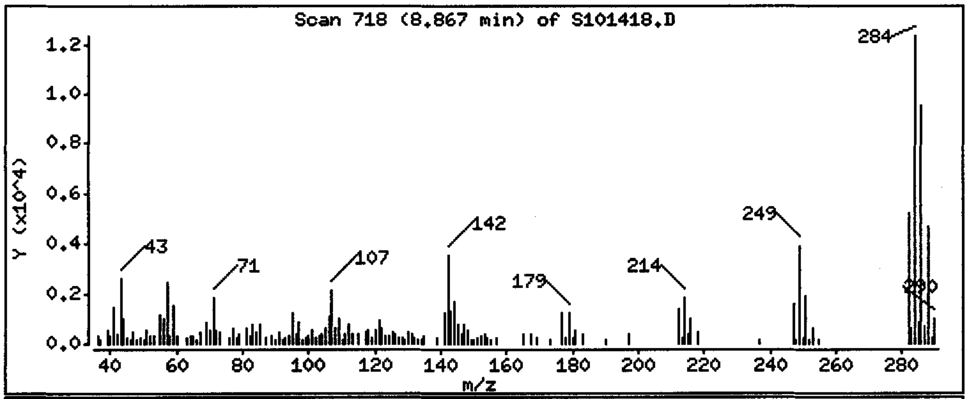
Operator: srs

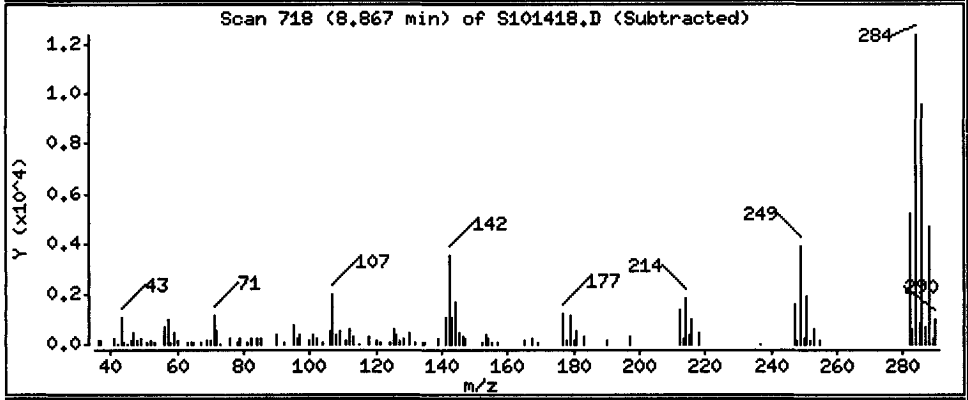
Column phase:

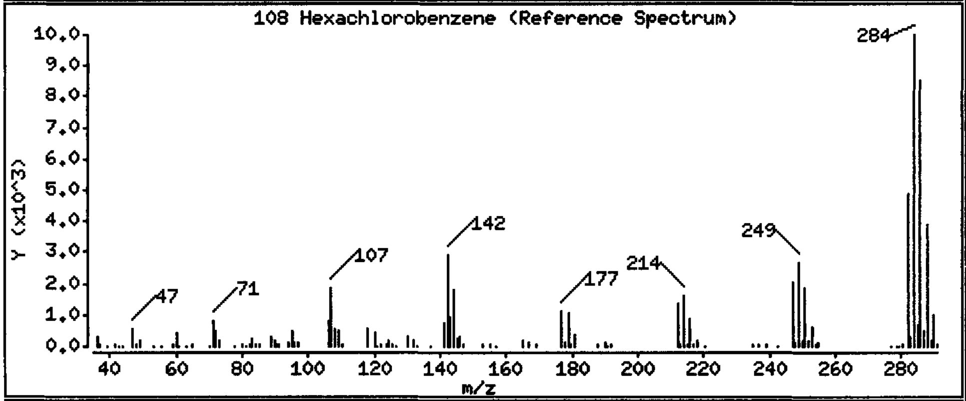
Column diameter: 2.00

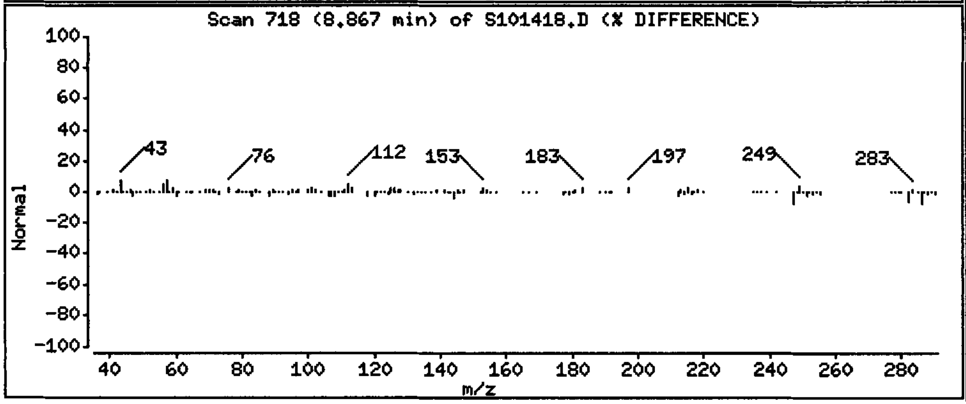
108 Hexachlorobenzene

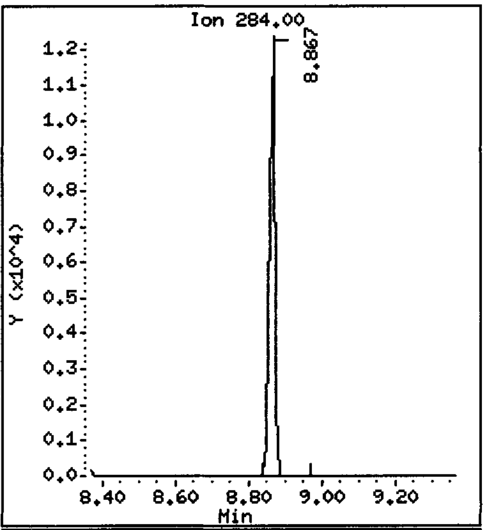
Concentration: 5.622 ug/L

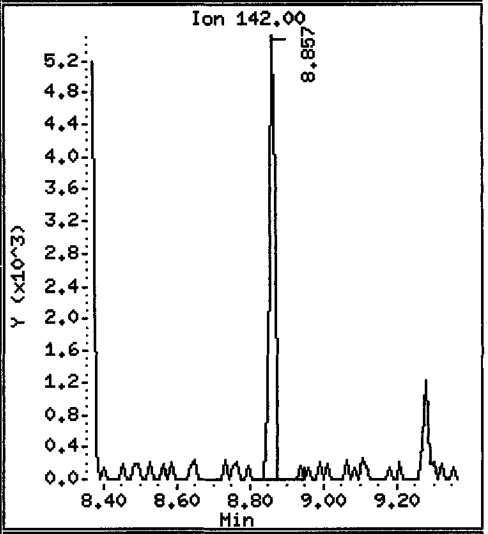


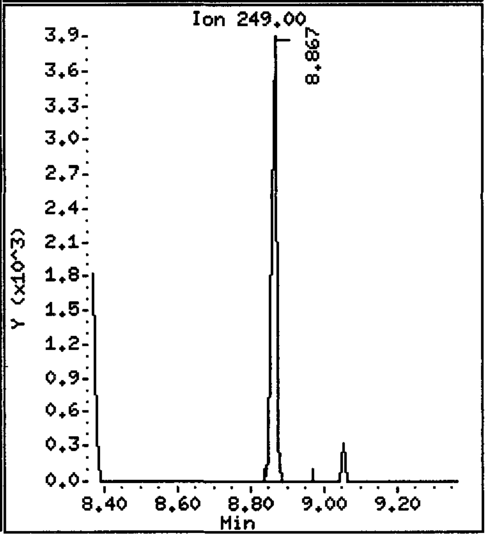












Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
MS SemiVOA ICAL Checklist
Method 8270C

Instrument: SV5
Injection Date: 10/02/10
Initiator/Date: KT-10/03/10
Reviewer/Date: 10/4/10

DFTPP Mix ID: 10MSSV0129
STD Mix IDs: 10MSSV0307-0313
2nd Source Mix ID: 10MSSV0314, 342
NCM ____________________

I: SPCCs The SPCC RRFs must be greater than 0.050.

	Initiated	Reviewed		Initiated	Reviewed
N-nitroso-di-n-propylamine	☒	☑	2,4-Dinitrophenol	☒	☑
Hexachlorocyclopentadiene	☒	☑	4-Nitrophenol	☒	☑

II: CCCs The CCC % RSDs must be less than 30%

	Initiated	Reviewed		Initiated	Reviewed
Phenol	☒	☑	Acenaphthene	☒	☑
1,4-Dichlorobenzene	☒	☑	N-nitrosodiphenylamine	☒	☑
2-Nitrophenol	☒	☑	Pentachlorophenol	☒	☑
2,4-Dichlorophenol	☒	☑	Fluoranthene	☒	☑
Hexachlorobutadiene	☒	☑	Di-n-octyl phthalate	☒	☑
4-chloro-3-methylphenol	☒	☑	Benzo(a)pyrene	☒	☑
2,4,6-Trichlorophenol	☒	☑			

III: Other Criteria	Initiated	Reviewed
The custom.rp shows that the average of the average is less than 15% on the CCV level standard. Avg of AVG:______________	☒	☑
Tailing and degradation criteria are met.	☒	☑
The Tune Documentation is present and meets criteria	☒	☑
All Internal Standards within 50-200% of ICAL mid-point.	☒	☑
Calibration History Included.	☒	☑
Manual re-integrations are checked/initialed and hardcopies included.	☒	☑
Standards analyzed with within 12 hours of Tune time.	☒	☑
Retention time correct for Isomers and all other analytes.	☒	☑
Linear Regressions >0.990 and intercept < ± (½ RL / IS amount)	☒	☑
The second source standard meets the SSCS criteria File Name: ______________________	☒	☑

IV: Non-CCC Compounds Over 15% *(Write compound and %D)*

None

V: Second Source Compounds Over 25% *(Write compound and %D)*

None

\\SACP104\BRIGHTSIDE\BRIGHTSIDE\8270KEITH\CURVES\8270 COVER PAGES\HSL\SV5_HSL_ICAL_100210.DOC

QA-512 ERS 1/2/2008

TestAmerica West Sacramento Page# 57

GC/MS INSTRUMENT LOG
SEMI-VOLATILES

Method Key (MTH Column)
QL = EPA 8270C (WS-MS-0005)
JZ = EPA TO-13A (WS-MS-0005)
VX = EPA 8270C-SIM (mod) CWM (WS-MS-0003)
QI = EPA 8270C-SIM (WS-MS-0008)
FX = PAH-SIM Isotope Dilution (WS-MS-0006)
F9 = EPA 8270C-SIM (mod) 1,4-Dioxane (WS-MS-0011)

Inst ID : sv5.i
Batch ID : 100210.B
ICAL Date: See Calib Report
See raw data for standard IDs

Date	Time	USER	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	MTH	Comments
02-OCT-2010	11:43	KT	Primer	QC001.D	NA	NA	NA		
02-OCT-2010	12:06	KT	DFTPP 50ug/ml	DFT1002.D	NA	NA	NA		
02-OCT-2010	12:27	KT	HSL_005 ug/ml CS-1	HSL1002A.	NA	NA	NA		
02-OCT-2010	12:53	KT	HSL_010 ug/ml CS-2	HSL1002B.	NA	NA	NA		
02-OCT-2010	13:18	KT	HSL_020 ug/ml CS-3	HSL1002C.	NA	NA	NA		
02-OCT-2010	13:44	KT	HSL_050 ug/ml CS-4	HSL1002D.	NA	NA	NA		
02-OCT-2010	14:09	KT	HSL_080 ug/ml CS-5	HSL1002E.	NA	NA	NA		
02-OCT-2010	14:35	KT	HSL_120 ug/ml CS-6	HSL1002F.	NA	NA	NA		
02-OCT-2010	15:00	KT	HSL_160 ug/ml CS-7	HSL1002G.	NA	NA	NA		
02-OCT-2010	16:11	KT	HSL_050 ug/ml ICV	HSL1002H.	NA	NA	NA		
02-OCT-2010	16:36	KT	Benzidines ICV 50ug/mL	HSL1002H1	NA	NA	NA		

Report Date : 03-Oct-2010 11:10

SV5 HSL
10/3/10

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

```
Start Cal Date   : 17-AUG-2010 17:32
End Cal Date     : 02-OCT-2010 15:00
Quant Method     : ISTD
Target Version   : 4.14
Integrator       : Falcon
Method file      : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit        : 03-Oct-2010 11:09 onishim

Calibration File Names:
Level 1: \\SV5\C\chem\sv5.i\081710.B\AP90817A.D
Level 2: \\SV5\C\chem\sv5.i\081710.B\AP90817B.D
Level 3: \\SV5\C\chem\sv5.i\081710.B\AP90817C.D
Level 4: \\SV5\C\chem\sv5.i\081710.B\AP90817D.D
Level 5: \\SV5\C\chem\sv5.i\081710.B\AP90817E.D
Level 6: \\SV5\C\chem\sv5.i\081710.B\AP90817F.D
Level 7: \\SV5\C\chem\sv5.i\081710.B\AP90817G.D
```

Compound	5.0000 Level 1 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
15 N-Nitrosodimethylamine	0.92899 0.93833	0.88268	0.91048	0.91970	0.93146	0.93916	AVRG		0.92154		2.16207
16 Pyridine	1.67117 1.52623	1.37423	1.59449	1.56610	1.52299	1.53256	AVRG		1.54111		5.85560
23 Aniline	2.20796 2.33783	2.15935	2.19988	2.26058	2.29749	2.33400	AVRG		2.25673		3.09753
24 Phenol	2.04111 2.06740	1.96212	2.02834	2.03430	2.06683	2.06089	AVRG		2.03729		1.80250

Manual calculation for 2.4.5-Trichlorophenol @ Level 3 :

$\frac{55529}{328608} \times \frac{40}{20} = 0.33796$ by 10/4/10

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 02-OCT-2010 15:00
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	160.0000 Level 7										
26 Bis(2-chloroethyl)ether	1.47335	1.38252	1.39491	1.43824	1.42549	1.44300					
	1.44264						AVRG		1.42859		2.17028
27 2-Chlorophenol	1.52099	1.55595	1.56903	1.58168	1.56789	1.58074					
	1.57039						AVRG		1.56381		1.32805
28 1,3-Dichlorobenzene	1.68903	1.69173	1.67754	1.73135	1.68641	1.72299					
	1.72457						AVRG		1.70337		1.29370
29 1,4-Dichlorobenzene	1.77122	1.79861	1.74013	1.76898	1.78200	1.79288					
	1.81444						AVRG		1.78118		1.35229
30 Benzyl Alcohol	1.01643	1.03654	0.99182	1.04980	1.07792	1.08952					
	1.09506						AVRG		1.05101		3.69696
31 1,2-Dichlorobenzene	1.62008	1.63185	1.60455	1.68061	1.63410	1.64415					
	1.64691						AVRG		1.63746		1.45884
32 2-Methylphenol	1.40818	1.38930	1.39110	1.42620	1.45565	1.46154					
	1.47889						AVRG		1.43012		2.50558

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 02-OCT-2010 15:00
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
33 2,2'-oxybis(1-Chloropropane)	2.29602	2.22080	2.28329	2.27928	2.27018	2.27830					
	2.28770						AVRG		2.27365		1.08468
34 4-Methylphenol	1.48606	1.48913	1.46270	1.52239	1.52653	1.55886					
	1.58763						AVRG		1.51904		2.88378
36 Hexachloroethane	0.60925	0.60836	0.60573	0.61394	0.60427	0.59381					
	0.60919						AVRG		0.60636		1.04319
37 N-Nitrosodinpropylamine	0.94498	0.97005	1.01302	1.02370	1.04700	1.03627					
	1.04757						AVRG		1.01180		3.92615
42 Nitrobenzene	0.32855	0.32602	0.32543	0.33083	0.33379	0.33450					
	0.33901						AVRG		0.33116		1.48904
44 Isophorone	0.63431	0.62291	0.61160	0.63344	0.63648	0.66468					
	0.65411						AVRG		0.63679		2.81109
45 2-Nitrophenol	0.18608	0.18833	0.18840	0.20021	0.20022	0.20702					
	0.20508						AVRG		0.19648		4.42274

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 02-OCT-2010 15:00
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	160.0000 Level 7										
46 2,4-Dimethyphenol	0.34459	0.34167	0.34307	0.34912	0.34788	0.35962					
	0.35785						AVRG		0.34911		2.02786
47 Bis(2-chloroethoxy)methane	0.41146	0.37494	0.38565	0.38249	0.38500	0.39859					
	0.38545						AVRG		0.38908		3.10601
49 2,4-Dichlorophenol	0.25434	0.26318	0.27019	0.27037	0.27274	0.28180					
	0.27809						AVRG		0.27010		3.39345
50 Benzoic Acid	0.16747	0.16266	0.17423	0.19357	0.21024	0.22272					
	0.22180						AVRG		0.19324		13.25202
51 1,2,4-Trichlorobenzene	0.29430	0.28827	0.28475	0.29747	0.29189	0.29959					
	0.29091						AVRG		0.29246		1.75989
52 Naphthalene	1.09939	1.12462	1.07435	1.09325	1.09870	1.13821					
	1.10247						AVRG		1.10443		1.89960
54 4-Chloroaniline	0.40751	0.42534	0.43264	0.43910	0.43781	0.44905					
	0.43867						AVRG		0.43288		3.06843

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 02-OCT-2010 15:00
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients			%RSD or R^2
								b	m1	m2	
57 Hexachlorobutadiene	0.14295 0.14473	0.13812	0.14428	0.14415	0.14385	0.14379	AVRG		0.14313		1.58904
60 4-Chloro-3-Methylphenol	0.29329 0.30839	0.28866	0.29079	0.30972	0.30295	0.31766	AVRG		0.30164		3.64422
63 2-Methylnaphthalene	0.68483 0.69217	0.68064	0.68080	0.70067	0.70560	0.71172	AVRG		0.69378		1.79740
66 Hexachlorocyclopentadiene	0.26878 0.33186	0.27757	0.28896	0.29704	0.30236	0.32262	AVRG		0.29846		7.64489
69 2,4,6-Trichlorophenol	0.31186 0.33638	0.29820	0.30223	0.31996	0.32305	0.34225	AVRG		0.31913		5.15654
70 2,4,5-Trichlorphenol	0.30823 0.36135	0.32892	0.33796	0.36298	0.35236	0.35480	AVRG		0.34380		5.80662
71 2-Chloronaphthalene	1.13629 1.15096	1.09411	1.10012	1.14181	1.11220	1.14447	AVRG		1.12571		2.05054

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 02-OCT-2010 15:00
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients			%RSD or R^2
								b	m1	m2	
73 2-Nitroaniline	0.31576	0.31759	0.33397	0.35205	0.34821	0.35794					
	0.36278						AVRG		0.34119		5.57334
76 Dimethylphthalate	1.23388	1.25191	1.29803	1.34568	1.31165	1.32891					
	1.30237						AVRG		1.29606		3.09317
77 Acenaphthylene	1.86531	1.91304	1.91818	2.01646	1.98204	1.99786					
	2.02968						AVRG		1.96037		3.15026
79 2,6-Dinitrotoluene	0.28347	0.27378	0.29890	0.31220	0.31294	0.32140					
	0.31106						AVRG		0.30197		5.78579
80 3-Nitroaniline	0.35362	0.34622	0.35978	0.40036	0.38674	0.39559					
	0.39603						AVRG		0.37691		6.06861
81 Acenaphthene	1.25874	1.22468	1.26733	1.27046	1.21141	1.24781					
	1.25463						AVRG		1.24787		1.76776
82 2,4-Dinitrophenol	4083	7537	23799	58864	110384	199007					
	265655						QUAD	0.10620	5.32413	-0.71963	0.99812

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 02-OCT-2010 15:00
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:09 onishim

	5.0000	10.0000	20.0000	50.0000	80.0000	120.0000		Coefficients			%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	160.0000										
	Level 7										
83 Dibenzofuran	1.57786	1.62124	1.65200	1.69530	1.65117	1.68450					
	1.71077						AVRG		1.65612		2.77923
84 4-Nitrophenol	0.12712	0.14148	0.15316	0.16076	0.17130	0.16653					
	0.17404						AVRG		0.15634		10.90920
86 2,4-Dinitrotoluene	0.34360	0.35989	0.38479	0.42154	0.41035	0.42305					
	0.43110						AVRG		0.39633		8.61592
91 Fluorene	1.34567	1.33840	1.34292	1.39902	1.38899	1.37835					
	1.40640						AVRG		1.37139		2.08557
92 Diethylphthalate	1.22240	1.29889	1.31549	1.37912	1.31873	1.37345					
	1.38087						AVRG		1.32699		4.31889
93 4-Chlorophenyl-phenylether	0.54964	0.55917	0.56887	0.59265	0.56708	0.57695					
	0.57695						AVRG		0.57019		2.42913
94 4-Nitroaniline	0.33346	0.33747	0.37329	0.38337	0.39216	0.39102					
	0.40452						AVRG		0.37361		7.42395

TestAmerica West Sacramento

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Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
97 4,6-Dinitro-2-methylphenol	5780 324244	11282	32982	76137	134784	236477	LINR	0.10840	0.15581		0.99840
98 N-Nitrosodiphenylamine	0.57756 0.61968	0.59736	0.60533	0.60433	0.62172	0.61801	AVRG		0.60628		2.57715
100 Azobenzene	0.77527 0.77331	0.76965	0.77321	0.79522	0.80064	0.81892	AVRG		0.78660		2.37146
101 4-Bromophenyl-phenylether	0.18964 0.19815	0.18507	0.19281	0.19931	0.19607	0.20581	AVRG		0.19527		3.48752
108 Hexachlorobenzene	0.22958 0.21854	0.22054	0.20740	0.21605	0.21731	0.21704	AVRG		0.21807		3.00928
110 Pentachlorophenol	5849 293184	10551	30451	67882	126397	215360	LINR	0.09816	0.14122		0.99845
114 Phenanthrene	1.30347 1.26611	1.26007	1.25408	1.24163	1.24375	1.25610	AVRG		1.26074		1.64308

TestAmerica West Sacramento

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Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	160.0000 Level 7										
115 Anthracene	1.25034	1.21759	1.24206	1.25982	1.27529	1.30214					
	1.26958						AVRG		1.25955		2.12888
118 Carbazole	1.13211	1.12547	1.13694	1.14260	1.17067	1.18192					
	1.16455						AVRG		1.15061		1.87826
120 Di-n-Butylphthalate	1.28492	1.32287	1.36193	1.38164	1.41474	1.43847					
	1.48636						AVRG		1.38442		4.97257
126 Fluoranthene	1.03840	1.07611	1.17216	1.10520	1.15861	1.18294					
	1.17440						AVRG		1.12969		5.01774
127 Benzidine	0.78175	0.76431	0.75250	0.82658	0.82201	0.86375					
	0.86381						AVRG		0.81067		5.60614
128 Pyrene	1.25791	1.23783	1.17078	1.28684	1.25586	1.28463					
	1.25794						AVRG		1.25025		3.12172
134 3,3'-dimethylbenzidine	0.65472	0.64388	0.67361	0.70756	0.73630	0.79414					
	0.79926						AVRG		0.71564		8.88815

TestAmerica West Sacramento

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Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	160.0000 Level 7										
136 Butylbenzylphthalate	0.64984	0.60187	0.59142	0.62586	0.61590	0.65233					
	0.64920						AVRG		0.62663		3.95034
138 Benzo(a)Anthracene	1.10169	0.99731	1.03245	1.04489	1.06449	1.10831					
	1.10920						AVRG		1.06548		4.05847
139 Chrysene	1.05284	1.10175	1.06320	1.09705	1.06985	1.12241					
	1.12246						AVRG		1.08994		2.59426
140 3,3'-Dichlorobenzidine	0.39148	0.37695	0.39090	0.39906	0.40353	0.42717					
	0.42415						AVRG		0.40189		4.53885
141 bis(2-ethylhexyl)Phthalate	0.91826	0.80897	0.84032	0.85193	0.84371	0.89539					
	0.88354						AVRG		0.86316		4.34816
142 Di-n-octylphthalate	1.34838	1.23185	1.35627	1.34433	1.39356	1.47616					
	1.50770						AVRG		1.37975		6.65055
144 Benzo(b)fluoranthene	0.81012	0.81077	0.82747	0.99930	0.95373	0.91132					
	1.02572						AVRG		0.90549		10.05836

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Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	160.0000 Level 7										
145 Benzo(k)fluoranthene	1.22939	1.16528	1.20022	1.09895	1.14223	1.19597					
	1.10447						AVRG		1.16236		4.27893
147 Benzo(e)pyrene	0.90394	0.92734	0.90757	0.95977	0.96997	0.96929					
	0.97185						AVRG		0.94425		3.22007
148 Benzo(a)pyrene	0.98300	0.97686	0.99402	1.02789	1.07610	1.06275					
	1.06523						AVRG		1.02655		4.11137
151 Indeno(1,2,3-cd)pyrene	0.73783	0.73267	0.73671	0.84698	0.84057	0.93730					
	0.97995						AVRG		0.83029		12.15083
152 Dibenzo(a,h)anthracene	0.88099	0.84384	0.87256	0.92240	0.95990	1.00944					
	1.00392						AVRG		0.92758		7.07091
153 Benzo(g,h,i)perylene	0.96025	0.98457	0.97380	0.99974	1.01731	1.05397					
	1.04026						AVRG		1.00427		3.45188
M 162 benzo b,k Fluoranthene Totals	2.03951	1.97605	2.02770	2.09825	2.09596	2.10729					
	2.13019						AVRG		2.06785		2.64859

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INITIAL CALIBRATION DATA

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Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1 160.0000 Level 7	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
$ 7 2-Fluorophenol	1.44503	1.30436	1.38373	1.44170	1.43535	1.42292					
	1.43635						AVRG		1.40992		3.61494
$ 8 Phenol-d5	1.72227	1.67335	1.74151	1.79006	1.80863	1.83864					
	1.83627						AVRG		1.77296		3.52001
$ 9 2-Chlorophenol-d4	1.47770	1.55530	1.53916	1.59414	1.57486	1.57967					
	1.57804						AVRG		1.55698		2.52388
$ 10 1,2-Dichlorobenzene-d4	0.95776	0.98111	0.99827	0.98914	0.99518	0.98547					
	0.98896						AVRG		0.98513		1.35559
$ 11 Nitrobenzene-d5	0.33028	0.34256	0.33065	0.34105	0.33606	0.35127					
	0.33970						AVRG		0.33879		2.16217
$ 12 2-Fluorobiphenyl	1.28499	1.26007	1.27668	1.34206	1.25854	1.29723					
	1.30010						AVRG		1.28852		2.22622
$ 13 2,4,6-Tribromophenol	0.15034	0.16527	0.17466	0.17926	0.17825	0.18501					
	0.18390						AVRG		0.17381		7.05197

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INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 02-OCT-2010 15:00
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:09 onishim

Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	160.0000 Level 7										
$ 14 Terphenyl-d14	0.78508	0.78616	0.73917	0.80441	0.78047	0.81889					
	0.80107						AVRG		0.78789		3.21384

```
                    TestAmerica West Sacramento

                     INITIAL CALIBRATION DATA

Start Cal Date   : 17-AUG-2010 17:32
End Cal Date     : 02-OCT-2010 15:00
Quant Method     : ISTD
Target Version   : 4.14
Integrator       : Falcon
Method file      : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit        : 03-Oct-2010 11:09 onishim


 ___________________________________________________________________
| Curve     | Formula                                  | Units        |
|-----------|==========================================|==============|
| Averaged  | Amt = Rsp/m1                             |  Response    |
| Linear    | Amt = b + Rsp/m1                         |  Response    |
| Quad      | Amt = b + m1*Rsp + m2*Rsp^2              |  Response    |
|___________|__________________________________________|______________|
```

Data File: \\SV5\C\chem\sv5.i\100210.B\8270f.m
Report Date: 04-Oct-2010 10:52

Signal Calibration Report

Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit: 04-Oct-2010 09:00 onishim
Compound : 82 2,4-Dinitrophenol
Mass: 184.00
Istd Compound: * 3 Acenaphthene-d10

Calibration Formulas

Calibration Mode: by Response

Curve Type: Averaged
Origin: None
Amt = Rsp/m1
m1 = 0.15933171100000
RSD: 26.349

Initial Calibration Table

Lvl	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
1	7.572	5.00000	4083	7.468	40.000	321839	0.10149173965865
2	7.572	10.00000	7537	7.468	40.000	272639	0.11057845722732
3	7.572	20.00000	23799	7.468	40.000	328608	0.14484735612036
4	7.582	50.00000	58864	7.468	40.000	282538	0.16667209366528
5	7.572	80.00000	110384	7.468	40.000	300315	0.18378036395118
6	7.582	120.00000	199007	7.468	40.000	322596	0.20563077864160
7	7.582	160.00000	265655	7.478	40.000	328259	0.20232118540543

Lvl	Sublist	Calibration File
1	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002A
2	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002B
3	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002C
4	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002D
5	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002E
6	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002F
7	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002G

Continuing Calibration Table

Ind	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor

```
|  1|  7.582|     50.000|          50142|  7.468|     40.000|         236662|  0.16949742670982|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
|  2|  7.572|     50.000|          58864|  7.468|     40.000|         282538|  0.16667209366528|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
|  3|  7.582|     50.000|          56608|  7.468|     40.000|         239304|  0.18924213552636|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
|  4|  7.589|     50.000|          98553|  7.485|     40.000|         440855|  0.17883975456783|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
|  5|  7.599|     50.000|          81881|  7.485|     40.000|         371846|  0.17616109894957|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
|  6|  7.599|     50.000|          55069|  7.495|     40.000|         283828|  0.15521794889863|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
|  7|  7.599|     50.000|          52896|  7.496|     40.000|         256342|  0.16507946415336|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
|  8|  7.599|     50.000|          50586|  7.495|     40.000|         224545|  0.18022578993075|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
|  9|  7.610|     50.000|          31559|  7.506|     40.000|         165705|  0.15236233064784|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 10|  7.610|     50.000|          50181|  7.506|     40.000|         226619|  0.17714666466625|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 11|  7.610|     50.000|          44092|  7.506|     40.000|         201923|  0.17468837130986|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 12|  7.620|     50.000|          81056|  7.516|     40.000|         329174|  0.19699247206645|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 13|  7.620|     50.000|          93793|  7.516|     40.000|         378407|  0.19829020076267|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 14|  7.630|     50.000|          68549|  7.516|     40.000|         271629|  0.20189007801082|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 15|  7.630|     50.000|          54835|  7.516|     40.000|         219680|  0.19969045884924|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 16|  7.630|     50.000|          67628|  7.527|     40.000|         267569|  0.20219980640508|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 17|  7.630|     50.000|          94376|  7.527|     40.000|         349016|  0.21632475301992|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 18|  7.635|     50.000|          51607|  7.532|     40.000|         209252|  0.19730086211840|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 19|  7.635|     50.000|          62563|  7.531|     40.000|         260404|  0.19220288474831|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 20|  7.646|     50.000|          80386|  7.542|     40.000|         334425|  0.19229662854153|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 21|  7.645|     50.000|          25473|  7.542|     40.000|         302573|  0.06735035842590|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 22|  7.645|     50.000|          17649|  7.542|     40.000|         223404|  0.06320030080034|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 23|  7.646|     50.000|          68382|  7.542|     40.000|         292758|  0.18686286967393|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 24|  7.656|     50.000|          97952|  7.552|     40.000|         390143|  0.20085353319168|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 25|  7.656|     50.000|          63647|  7.552|     40.000|         289221|  0.17605084001507|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 26|  7.666|     50.000|          79703|  7.563|     40.000|         331752|  0.19219899201813|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 27|  7.677|     50.000|          59624|  7.573|     40.000|         245725|  0.19411618679418|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 28|  7.687|     50.000|          60561|  7.583|     40.000|         237909|  0.20364425053277|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 29|  7.687|     50.000|          42226|  7.583|     40.000|         172923|  0.19535168832370|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 30|  7.687|     50.000|          51997|  7.583|     40.000|         208221|  0.19977619932668|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 31|  7.697|     50.000|          51275|  7.594|     40.000|         202822|  0.20224630464151|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 32|  7.697|     50.000|          65531|  7.594|     40.000|         250339|  0.20941523294413|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
| 33|  7.760|     50.000|          76785|  7.656|     40.000|         344524|  0.17829817371214|
+---+-------+-----------+---------------+-------+-----------+---------------+------------------+
```

```
| 34| 7.759|     50.000|            68725| 7.656|     40.000|          303207| 0.18132826748723|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 35| 7.770|     50.000|            66249| 7.666|     40.000|          308864| 0.17159397016162|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 36| 7.780|     50.000|            63983| 7.677|     40.000|          288883| 0.17718730420274|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 37| 7.780|     50.000|            61267| 7.677|     40.000|          292290| 0.16768825481542|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 38| 7.791|     50.000|            56069| 7.687|     40.000|          238922| 0.18773993186061|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 39| 7.791|     50.000|            50573| 7.687|     40.000|          243613| 0.16607652300986|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 40| 7.791|     50.000|            55930| 7.687|     40.000|          256301| 0.17457598682799|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 41| 7.791|     50.000|            55930| 7.687|     40.000|          256301| 0.17457598682799|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 42| 7.791|     50.000|            43995| 7.687|     40.000|          215682| 0.16318468856928|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 43| 7.801|     50.000|            55663| 7.697|     40.000|          269061| 0.16550299002828|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 44| 7.801|     50.000|            52406| 7.697|     40.000|          242418| 0.17294425331452|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 45| 7.801|     50.000|            49689| 7.697|     40.000|          246748| 0.16110039392417|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 46| 7.801|     50.000|            83728| 7.697|     40.000|          361851| 0.18511044601231|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 47| 7.801|     50.000|            69470| 7.697|     40.000|          316865| 0.17539330629763|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 48| 7.811|     50.000|            98764| 7.708|     40.000|          448001| 0.17636389204488|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 49| 7.811|     50.000|            65199| 7.708|     40.000|          319060| 0.16347771579013|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 50| 7.811|     50.000|            63819| 7.708|     40.000|          326041| 0.15659134894078|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 51| 7.811|     50.000|            69420| 7.708|     40.000|          325539| 0.17059707131864|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 52| 7.822|     50.000|            66513| 7.718|     40.000|          295770| 0.17990465564459|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 53| 7.822|     50.000|            58901| 7.718|     40.000|          274779| 0.17148617616339|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 54| 7.822|     50.000|            58321| 7.718|     40.000|          264752| 0.17622831933281|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 55| 7.816|     50.000|            90734| 7.713|     40.000|          414154| 0.17526620532459|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 56| 7.858|     50.000|            49564| 7.754|     40.000|          260934| 0.15195873285965|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 57| 7.858|     50.000|            63475| 7.754|     40.000|          318667| 0.15935129774969|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 58| 7.889|     50.000|            58884| 7.785|     40.000|          318462| 0.14792094504211|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 59| 7.889|     50.000|            52456| 7.796|     40.000|          304639| 0.13775255302177|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 60| 7.889|     50.000|            44855| 7.796|     40.000|          283970| 0.12636546114026|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
| 61| 7.889|     50.000|            40711| 7.785|     40.000|          264293| 0.12322990014870|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
|   |      |           |                 |      |           |                |                 |
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+
|Avg| 7.719|     50.000|            61661| 7.615|     40.000|            4333| 0.17364233986573|
+---+------+-----------+-----------------+------+-----------+----------------+-----------------+


+---+--------------------+-------------------------------------------------+
|Ind|      Sublist       | Calibration File                                |
+---+--------------------+-------------------------------------------------+
|  1|1_8270STD           |\\sv5\c\chem\sv5.i\100210.B\HSL1002H              |
+---+--------------------+-------------------------------------------------+
```

```
|  2|1_8270STD           |\\SV5\C\chem\sv5.i\100210.B\HSL1002D          |
+---+--------------------+----------------------------------------------+
|  3|1_8270STD           |\\SV5\C\chem\sv5.i\100210.B\QC001             |
+---+--------------------+----------------------------------------------+
|  4|1_8270STD           |\\SV5\C\chem\sv5.i\100110.B\HSL1001           |
+---+--------------------+----------------------------------------------+
|  5|1_8270STD           |\\SV5\C\chem\sv5.i\093010.B\HSL0930           |
+---+--------------------+----------------------------------------------+
|  6|1_8270STD           |\\sv5\c\chem\sv5.i\092910A.B\HSL0929A         |
+---+--------------------+----------------------------------------------+
|  7|1_8270STD           |\\SV5\C\chem\sv5.i\092910.B\HSL0929           |
+---+--------------------+----------------------------------------------+
|  8|1_8270STD           |\\SV5\C\chem\sv5.i\092910.B\QC001             |
+---+--------------------+----------------------------------------------+
|  9|1_8270STD           |\\SV5\C\chem\sv5.i\092810A.B\HSL0928          |
+---+--------------------+----------------------------------------------+
| 10|1_8270STD           |\\SV5\C\chem\sv5.i\092810.B\HSL0928           |
+---+--------------------+----------------------------------------------+
| 11|1_8270STD           |\\SV5\C\chem\sv5.i\092710.B\HSL0927           |
+---+--------------------+----------------------------------------------+
| 12|1_8270STD           |\\SV5\C\chem\sv5.i\092510.B\QC001             |
+---+--------------------+----------------------------------------------+
| 13|1_8270STD           |\\sv5\c\chem\sv5.i\092510.B\HSL0925           |
+---+--------------------+----------------------------------------------+
| 14|1_8270STD           |\\SV5\C\chem\sv5.i\092410.B\QC001             |
+---+--------------------+----------------------------------------------+
| 15|1_8270STD           |\\SV5\C\chem\sv5.i\092410.B\HSL0924           |
+---+--------------------+----------------------------------------------+
| 16|1_8270STD           |\\SV5\C\chem\sv5.i\092310A.B\HSL0923A         |
+---+--------------------+----------------------------------------------+
| 17|1_8270STD           |\\SV5\C\chem\sv5.i\092310A.B\QC001            |
+---+--------------------+----------------------------------------------+
| 18|1_8270STD           |\\SV5\C\chem\sv5.i\092310.B\QC001             |
+---+--------------------+----------------------------------------------+
| 19|1_8270STD           |\\SV5\C\chem\sv5.i\092310.B\HSL0923           |
+---+--------------------+----------------------------------------------+
| 20|1_8270STD           |\\SV5\C\chem\sv5.i\092210.B\HSL0922a          |
+---+--------------------+----------------------------------------------+
| 21|1_8270STD           |\\SV5\C\chem\sv5.i\092210.B\HSL0922           |
+---+--------------------+----------------------------------------------+
| 22|1_8270STD           |\\SV5\C\chem\sv5.i\092210.B\QC001             |
+---+--------------------+----------------------------------------------+
| 23|1_8270STD           |\\SV5\C\chem\sv5.i\092110.B\HSL0921           |
+---+--------------------+----------------------------------------------+
| 24|1_8270STD           |\\SV5\C\chem\sv5.i\092010.B\QC001             |
+---+--------------------+----------------------------------------------+
| 25|1_8270STD           |\\SV5\C\chem\sv5.i\092010.B\HSL0920           |
+---+--------------------+----------------------------------------------+
| 26|1_8270STD           |\\SV5\C\chem\sv5.i\091910a.B\HSL0919a         |
+---+--------------------+----------------------------------------------+
| 27|1_8270STD           |\\SV5\C\chem\sv5.i\091910.B\HSL0919           |
+---+--------------------+----------------------------------------------+
| 28|1_8270STD           |\\SV5\C\chem\sv5.i\091910.B\QC001             |
+---+--------------------+----------------------------------------------+
| 29|1_8270STD           |\\SV5\C\chem\sv5.i\091710.B\HSL0917           |
+---+--------------------+----------------------------------------------+
| 30|1_8270STD           |\\SV5\C\chem\sv5.i\091710.B\QC001             |
+---+--------------------+----------------------------------------------+
| 31|1_8270STD           |\\SV5\C\chem\sv5.i\091510b.B\HSL0915b         |
+---+--------------------+----------------------------------------------+
| 32|1_8270STD           |\\SV5\C\chem\sv5.i\091510b.B\QC003            |
+---+--------------------+----------------------------------------------+
| 33|1_8270STD           |\\sv5\c\chem\sv5.i\091010.B\HSL0910           |
+---+--------------------+----------------------------------------------+
| 34|1_8270STD           |\\SV5\C\chem\sv5.i\091010.B\QC001             |
+---+--------------------+----------------------------------------------+
```

```
| 35|1_8270STD           |\\sv5\c\chem\sv5.i\090910a.B\HSL0909a            |
+---+--------------------+--------------------------------------------------+
| 36|1_8270STD           |\\SV5\C\chem\sv5.i\090910.B\HSL0909              |
+---+--------------------+--------------------------------------------------+
| 37|1_8270STD           |\\SV5\C\chem\sv5.i\090910.B\QC001                |
+---+--------------------+--------------------------------------------------+
| 38|1_8270STD           |\\SV5\C\chem\sv5.i\090810.B\HSL0908              |
+---+--------------------+--------------------------------------------------+
| 39|1_8270STD           |\\SV5\C\chem\sv5.i\090810.B\Primer               |
+---+--------------------+--------------------------------------------------+
| 40|1_8270STD           |\\sv5\c\chem\sv5.i\090710.B\HSL0907              |
+---+--------------------+--------------------------------------------------+
| 41|1_8270STD           |\\SV5\C\chem\sv5.i\090710.B\HSL0907              |
+---+--------------------+--------------------------------------------------+
| 42|1_8270STD           |\\sv5\c\chem\sv5.i\090110.B\HSL0901              |
+---+--------------------+--------------------------------------------------+
| 43|1_8270STD           |\\SV5\C\chem\sv5.i\083110.B\HSL0831              |
+---+--------------------+--------------------------------------------------+
| 44|1_8270STD           |\\sv5\c\chem\sv5.i\083010.B\QC001                |
+---+--------------------+--------------------------------------------------+
| 45|1_8270STD           |\\sv5\c\chem\sv5.i\083010.B\HSL0830              |
+---+--------------------+--------------------------------------------------+
| 46|1_8270STD           |\\SV5\C\chem\sv5.i\082710.B\QC001                |
+---+--------------------+--------------------------------------------------+
| 47|1_8270STD           |\\sv5\c\chem\sv5.i\082710.B\HSL0827              |
+---+--------------------+--------------------------------------------------+
| 48|1_8270STD           |\\SV5\C\chem\sv5.i\082610.B\HSL0826              |
+---+--------------------+--------------------------------------------------+
| 49|1_8270STD           |\\SV5\C\chem\sv5.i\082610.B\QC001                |
+---+--------------------+--------------------------------------------------+
| 50|1_8270STD           |\\SV5\C\chem\sv5.i\082510.B\QC001                |
+---+--------------------+--------------------------------------------------+
| 51|1_8270STD           |\\SV5\C\chem\sv5.i\082510.B\HSL0825              |
+---+--------------------+--------------------------------------------------+
| 52|1_8270STD           |\\sv5\c\chem\sv5.i\082310B.B\HSL0823             |
+---+--------------------+--------------------------------------------------+
| 53|1_8270STD           |\\sv5\c\chem\sv5.i\082310B.B\HSL0823H            |
+---+--------------------+--------------------------------------------------+
| 54|1_8270STD           |\\sv5\c\chem\sv5.i\082310B.B\HSL0823D            |
+---+--------------------+--------------------------------------------------+
| 55|1_8270STD           |\\SV5\C\chem\sv5.i\082310A.B\HSL0823A            |
+---+--------------------+--------------------------------------------------+
| 56|1_8270STD           |\\SV5\C\chem\sv5.i\082010.B\HSL0820              |
+---+--------------------+--------------------------------------------------+
| 57|1_8270STD           |\\sv5\c\chem\sv5.i\082010.B\QC001                |
+---+--------------------+--------------------------------------------------+
| 58|1_8270STD           |\\sv5\c\chem\sv5.i\081810A.B\HSL0818A            |
+---+--------------------+--------------------------------------------------+
| 59|1_8270STD           |\\sv5\c\chem\sv5.i\081810.B\HSL0818              |
+---+--------------------+--------------------------------------------------+
| 60|1_8270STD           |\\SV5\C\chem\sv5.i\081710.B\HSL0817D             |
+---+--------------------+--------------------------------------------------+
| 61|1_8270STD           |\\SV5\C\chem\sv5.i\081710.B\HSL0817H             |
+---+--------------------+--------------------------------------------------+
```

Data File: \\SV5\C\chem\sv5.i\100210.B\8270f.m
Report Date: 04-Oct-2010 10:52

Signal Calibration Report

Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit: 04-Oct-2010 09:00 onishim
Compound : 110 Pentachlorophenol
Mass: 266.00
Istd Compound: * 4 Phenanthrene-d10

Calibration Formulas

Calibration Mode: by Response

Curve Type: Averaged
Origin: None
Amt = Rsp/m1
m1 = 0.11930897400000
RSD: 15.221

Initial Calibration Table

Lvl	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
1	9.240	5.00000	5849	9.406	40.000	496356	0.09427104739340
2	9.240	10.00000	10551	9.406	40.000	428440	0.09850620857063
3	9.240	20.00000	30451	9.406	40.000	525834	0.11581982146457
4	9.240	50.00000	67882	9.406	40.000	462722	0.11736118014704
5	9.240	80.00000	126397	9.406	40.000	477777	0.13227614556582
6	9.240	120.00000	215360	9.406	40.000	515607	0.13922748656761
7	9.250	160.00000	293184	9.406	40.000	532284	0.13770092657303

Lvl	Sublist	Calibration File
1	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002A
2	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002B
3	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002C
4	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002D
5	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002E
6	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002F
7	1_8270STD	\\SV5\C\chem\sv5.i\100210.B\HSL1002G

Continuing Calibration Table

Ind	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor

```
|  1|  9.240|      50.000|            62906|  9.406|      40.000|          380734|  0.13217837125132|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
|  2|  9.240|      50.000|            67882|  9.406|      40.000|          462722|  0.11736118014704|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
|  3|  9.257|      50.000|           111129|  9.423|      40.000|          692643|  0.12835356742218|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
|  4|  9.257|      50.000|            88353|  9.423|      40.000|          569627|  0.12408541027725|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
|  5|  9.267|      50.000|            65176|  9.433|      40.000|          444572|  0.11728313973889|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
|  6|  9.268|      50.000|            60910|  9.433|      40.000|          402268|  0.12113317489833|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
|  7|  9.278|      50.000|            51724|  9.433|      40.000|          342388|  0.12085470285174|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
|  8|  9.278|      50.000|            37406|  9.444|      40.000|          257561|  0.11618529202791|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
|  9|  9.278|      50.000|            56153|  9.444|      40.000|          367144|  0.12235635064171|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 10|  9.278|      50.000|            49979|  9.444|      40.000|          316244|  0.12643148960929|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 11|  9.299|      50.000|            89278|  9.465|      40.000|          533339|  0.13391557714699|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 12|  9.288|      50.000|           102299|  9.454|      40.000|          604130|  0.13546620760432|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 13|  9.299|      50.000|            74887|  9.464|      40.000|          434948|  0.13773968382427|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 14|  9.299|      50.000|            61171|  9.465|      40.000|          350214|  0.13973399121680|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 15|  9.309|      50.000|            72641|  9.475|      40.000|          436116|  0.13325078648800|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 16|  9.309|      50.000|            99213|  9.475|      40.000|          545533|  0.14549147347640|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 17|  9.314|      50.000|            56050|  9.480|      40.000|          341600|  0.13126463700234|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 18|  9.314|      50.000|            67187|  9.480|      40.000|          410196|  0.13103394474836|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 19|  9.324|      50.000|            90596|  9.490|      40.000|          530756|  0.13655389670583|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 20|  9.324|      50.000|            32043|  9.490|      40.000|          484990|  0.05285552279428|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 21|  9.324|      50.000|            22238|  9.490|      40.000|          346959|  0.05127522272084|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 22|  9.324|      50.000|            81528|  9.490|      40.000|          462218|  0.14110744280837|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 23|  9.335|      50.000|           103580|  9.511|      40.000|          589949|  0.14045959905009|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 24|  9.335|      50.000|            72155|  9.501|      40.000|          446339|  0.12932770831140|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 25|  9.355|      50.000|            91662|  9.521|      40.000|          517550|  0.14168602067433|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 26|  9.366|      50.000|            67431|  9.532|      40.000|          396847|  0.13593349578049|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 27|  9.366|      50.000|            71407|  9.542|      40.000|          407176|  0.14029707055426|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 28|  9.366|      50.000|            49946|  9.532|      40.000|          298933|  0.13366473423811|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 29|  9.366|      50.000|            58621|  9.542|      40.000|          335623|  0.13973059057335|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 30|  9.386|      50.000|            53858|  9.552|      40.000|          329730|  0.13067176174446|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 31|  9.387|      50.000|            69993|  9.552|      40.000|          399673|  0.14010053218506|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 32|  9.459|      50.000|            87217|  9.625|      40.000|          539077|  0.12943160253544|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
| 33|  9.459|      50.000|            77540|  9.625|      40.000|          458679|  0.13524054949104|
+---+-------+------------+-----------------+-------+------------+----------------+------------------+
```

```
| 34|  9.470|      50.000|            79232| 9.646|     40.000|          482971| 0.13124100618878|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 35|  9.480|      50.000|            75075| 9.656|     40.000|          465501| 0.12902227922174|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 36|  9.480|      50.000|            69872| 9.656|     40.000|          435300| 0.12841167011257|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 37|  9.490|      50.000|            60626| 9.656|     40.000|          378611| 0.12810193047746|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 38|  9.490|      50.000|            60476| 9.666|     40.000|          383533| 0.12614507747704|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 39|  9.490|      50.000|            68275| 9.656|     40.000|          401081| 0.13618196823086|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 40|  9.490|      50.000|            68275| 9.656|     40.000|          401081| 0.13618196823086|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 41|  9.490|      50.000|            51783| 9.666|     40.000|          337799| 0.12263624226241|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 42|  9.501|      50.000|            70205| 9.677|     40.000|          425699| 0.13193359627342|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 43|  9.511|      50.000|            60939| 9.677|     40.000|          381025| 0.12794751000591|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 44|  9.501|      50.000|            61157| 9.677|     40.000|          380328| 0.12864054184809|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 45|  9.500|      50.000|            98266| 9.676|     40.000|          586969| 0.13393007126441|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 46|  9.500|      50.000|            82460| 9.677|     40.000|          500580| 0.13178313156738|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 47|  9.511|      50.000|           117721| 9.687|     40.000|          687233| 0.13703765680635|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 48|  9.511|      50.000|            77582| 9.687|     40.000|          485585| 0.12781613929590|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 49|  9.511|      50.000|            77449| 9.687|     40.000|          498103| 0.12439033693834|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 50|  9.511|      50.000|            85917| 9.687|     40.000|          500311| 0.13738174855240|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 51|  9.521|      50.000|            80098| 9.697|     40.000|          460974| 0.13900653832971|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 52|  9.521|      50.000|            71155| 9.697|     40.000|          428920| 0.13271472535671|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 53|  9.521|      50.000|            72603| 9.697|     40.000|          415811| 0.13968461632809|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 54|  9.526|      50.000|           108254| 9.702|     40.000|          650674| 0.13309768025155|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 55|  9.568|      50.000|            64139| 9.744|     40.000|          411802| 0.12460162893818|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 56|  9.578|      50.000|            85309| 9.754|     40.000|          511730| 0.13336564203779|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 57|  9.599|      50.000|            78595| 9.785|     40.000|          486034| 0.12936543533991|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 58|  9.609|      50.000|            72755| 9.785|     40.000|          467607| 0.12447204597023|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 59|  9.609|      50.000|            67958| 9.785|     40.000|          451801| 0.12033262431911|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
| 60|  9.609|      50.000|            63635| 9.785|     40.000|          418038| 0.12177840292031|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
|   |       |            |                 |      |           |                |                 |
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+
|Avg|  9.411|      50.000|            72233| 9.581|     40.000|            6967| 0.12849428241810|
+---+-------+------------+-----------------+------+-----------+----------------+-----------------+

+---+---------------------+-----------------------------------------------+
|Ind|     Sublist         | Calibration File                              |
+---+---------------------+-----------------------------------------------+
|  1|1_8270STD            |\\sv5\c\chem\sv5.i\100210.B\HSL1002H           |
+---+---------------------+-----------------------------------------------+
|  2|1_8270STD            |\\SV5\C\chem\sv5.i\100210.B\HSL1002D           |
+---+---------------------+-----------------------------------------------+
```

```
|  3|1_8270STD           |\\SV5\C\chem\sv5.i\100110.B\HSL1001              |
+---+--------------------+-------------------------------------------------+
|  4|1_8270STD           |\\SV5\C\chem\sv5.i\093010.B\HSL0930              |
+---+--------------------+-------------------------------------------------+
|  5|1_8270STD           |\\sv5\c\chem\sv5.i\092910A.B\HSL0929A            |
+---+--------------------+-------------------------------------------------+
|  6|1_8270STD           |\\SV5\C\chem\sv5.i\092910.B\HSL0929              |
+---+--------------------+-------------------------------------------------+
|  7|1_8270STD           |\\SV5\C\chem\sv5.i\092910.B\QC001                |
+---+--------------------+-------------------------------------------------+
|  8|1_8270STD           |\\SV5\C\chem\sv5.i\092810A.B\HSL0928             |
+---+--------------------+-------------------------------------------------+
|  9|1_8270STD           |\\SV5\C\chem\sv5.i\092810.B\HSL0928              |
+---+--------------------+-------------------------------------------------+
| 10|1_8270STD           |\\SV5\C\chem\sv5.i\092710.B\HSL0927              |
+---+--------------------+-------------------------------------------------+
| 11|1_8270STD           |\\SV5\C\chem\sv5.i\092510.B\QC001                |
+---+--------------------+-------------------------------------------------+
| 12|1_8270STD           |\\sv5\c\chem\sv5.i\092510.B\HSL0925              |
+---+--------------------+-------------------------------------------------+
| 13|1_8270STD           |\\SV5\C\chem\sv5.i\092410.B\QC001                |
+---+--------------------+-------------------------------------------------+
| 14|1_8270STD           |\\SV5\C\chem\sv5.i\092410.B\HSL0924              |
+---+--------------------+-------------------------------------------------+
| 15|1_8270STD           |\\SV5\C\chem\sv5.i\092310A.B\HSL0923A            |
+---+--------------------+-------------------------------------------------+
| 16|1_8270STD           |\\SV5\C\chem\sv5.i\092310A.B\QC001               |
+---+--------------------+-------------------------------------------------+
| 17|1_8270STD           |\\SV5\C\chem\sv5.i\092310.B\QC001                |
+---+--------------------+-------------------------------------------------+
| 18|1_8270STD           |\\SV5\C\chem\sv5.i\092310.B\HSL0923              |
+---+--------------------+-------------------------------------------------+
| 19|1_8270STD           |\\SV5\C\chem\sv5.i\092210.B\HSL0922a             |
+---+--------------------+-------------------------------------------------+
| 20|1_8270STD           |\\SV5\C\chem\sv5.i\092210.B\HSL0922              |
+---+--------------------+-------------------------------------------------+
| 21|1_8270STD           |\\SV5\C\chem\sv5.i\092210.B\QC001                |
+---+--------------------+-------------------------------------------------+
| 22|1_8270STD           |\\SV5\C\chem\sv5.i\092110.B\HSL0921              |
+---+--------------------+-------------------------------------------------+
| 23|1_8270STD           |\\SV5\C\chem\sv5.i\092010.B\QC001                |
+---+--------------------+-------------------------------------------------+
| 24|1_8270STD           |\\SV5\C\chem\sv5.i\092010.B\HSL0920              |
+---+--------------------+-------------------------------------------------+
| 25|1_8270STD           |\\SV5\C\chem\sv5.i\091910a.B\HSL0919a            |
+---+--------------------+-------------------------------------------------+
| 26|1_8270STD           |\\SV5\C\chem\sv5.i\091910.B\HSL0919              |
+---+--------------------+-------------------------------------------------+
| 27|1_8270STD           |\\SV5\C\chem\sv5.i\091910.B\QC001                |
+---+--------------------+-------------------------------------------------+
| 28|1_8270STD           |\\SV5\C\chem\sv5.i\091710.B\HSL0917              |
+---+--------------------+-------------------------------------------------+
| 29|1_8270STD           |\\SV5\C\chem\sv5.i\091710.B\QC001                |
+---+--------------------+-------------------------------------------------+
| 30|1_8270STD           |\\SV5\C\chem\sv5.i\091510b.B\HSL0915b            |
+---+--------------------+-------------------------------------------------+
| 31|1_8270STD           |\\SV5\C\chem\sv5.i\091510b.B\QC003               |
+---+--------------------+-------------------------------------------------+
| 32|1_8270STD           |\\sv5\c\chem\sv5.i\091010.B\HSL0910              |
+---+--------------------+-------------------------------------------------+
| 33|1_8270STD           |\\SV5\C\chem\sv5.i\091010.B\QC001                |
+---+--------------------+-------------------------------------------------+
| 34|1_8270STD           |\\sv5\c\chem\sv5.i\090910a.B\HSL0909a            |
+---+--------------------+-------------------------------------------------+
| 35|1_8270STD           |\\SV5\C\chem\sv5.i\090910.B\HSL0909              |
+---+--------------------+-------------------------------------------------+
```

```
| 36|1_8270STD           |\\SV5\C\chem\sv5.i\090910.B\QC001                 |
+---+--------------------+--------------------------------------------------+
| 37|1_8270STD           |\\SV5\C\chem\sv5.i\090810.B\HSL0908               |
+---+--------------------+--------------------------------------------------+
| 38|1_8270STD           |\\SV5\C\chem\sv5.i\090810.B\Primer                |
+---+--------------------+--------------------------------------------------+
| 39|1_8270STD           |\\sv5\c\chem\sv5.i\090710.B\HSL0907               |
+---+--------------------+--------------------------------------------------+
| 40|1_8270STD           |\\SV5\C\chem\sv5.i\090710.B\HSL0907               |
+---+--------------------+--------------------------------------------------+
| 41|1_8270STD           |\\sv5\c\chem\sv5.i\090110.B\HSL0901               |
+---+--------------------+--------------------------------------------------+
| 42|1_8270STD           |\\SV5\C\chem\sv5.i\083110.B\HSL0831               |
+---+--------------------+--------------------------------------------------+
| 43|1_8270STD           |\\sv5\c\chem\sv5.i\083010.B\QC001                 |
+---+--------------------+--------------------------------------------------+
| 44|1_8270STD           |\\sv5\c\chem\sv5.i\083010.B\HSL0830               |
+---+--------------------+--------------------------------------------------+
| 45|1_8270STD           |\\SV5\C\chem\sv5.i\082710.B\QC001                 |
+---+--------------------+--------------------------------------------------+
| 46|1_8270STD           |\\sv5\c\chem\sv5.i\082710.B\HSL0827               |
+---+--------------------+--------------------------------------------------+
| 47|1_8270STD           |\\SV5\C\chem\sv5.i\082610.B\HSL0826               |
+---+--------------------+--------------------------------------------------+
| 48|1_8270STD           |\\SV5\C\chem\sv5.i\082610.B\QC001                 |
+---+--------------------+--------------------------------------------------+
| 49|1_8270STD           |\\SV5\C\chem\sv5.i\082510.B\QC001                 |
+---+--------------------+--------------------------------------------------+
| 50|1_8270STD           |\\SV5\C\chem\sv5.i\082510.B\HSL0825               |
+---+--------------------+--------------------------------------------------+
| 51|1_8270STD           |\\sv5\c\chem\sv5.i\082310B.B\HSL0823              |
+---+--------------------+--------------------------------------------------+
| 52|1_8270STD           |\\sv5\c\chem\sv5.i\082310B.B\HSL0823H             |
+---+--------------------+--------------------------------------------------+
| 53|1_8270STD           |\\sv5\c\chem\sv5.i\082310B.B\HSL0823D             |
+---+--------------------+--------------------------------------------------+
| 54|1_8270STD           |\\SV5\C\chem\sv5.i\082310A.B\HSL0823A             |
+---+--------------------+--------------------------------------------------+
| 55|1_8270STD           |\\SV5\C\chem\sv5.i\082010.B\HSL0820               |
+---+--------------------+--------------------------------------------------+
| 56|1_8270STD           |\\sv5\c\chem\sv5.i\082010.B\QC001                 |
+---+--------------------+--------------------------------------------------+
| 57|1_8270STD           |\\sv5\c\chem\sv5.i\081810A.B\HSL0818A             |
+---+--------------------+--------------------------------------------------+
| 58|1_8270STD           |\\sv5\c\chem\sv5.i\081810.B\HSL0818               |
+---+--------------------+--------------------------------------------------+
| 59|1_8270STD           |\\SV5\C\chem\sv5.i\081710.B\HSL0817D              |
+---+--------------------+--------------------------------------------------+
| 60|1_8270STD           |\\SV5\C\chem\sv5.i\081710.B\HSL0817H              |
+---+--------------------+--------------------------------------------------+
```

```
              TAILING FACTOR/DEGRADATION SUMMARY RESULTS


         TAILING ANALYSIS SUMMARY
+========================================================+
|     Compound                   |Tail Factor |Max Allowed|Test|
+========================================================+
|Pentachlorophenol               |   0.6825896|      5.000|PASS|
|Benzidine                       |   0.6244503|      3.000|PASS|
+========================================================+

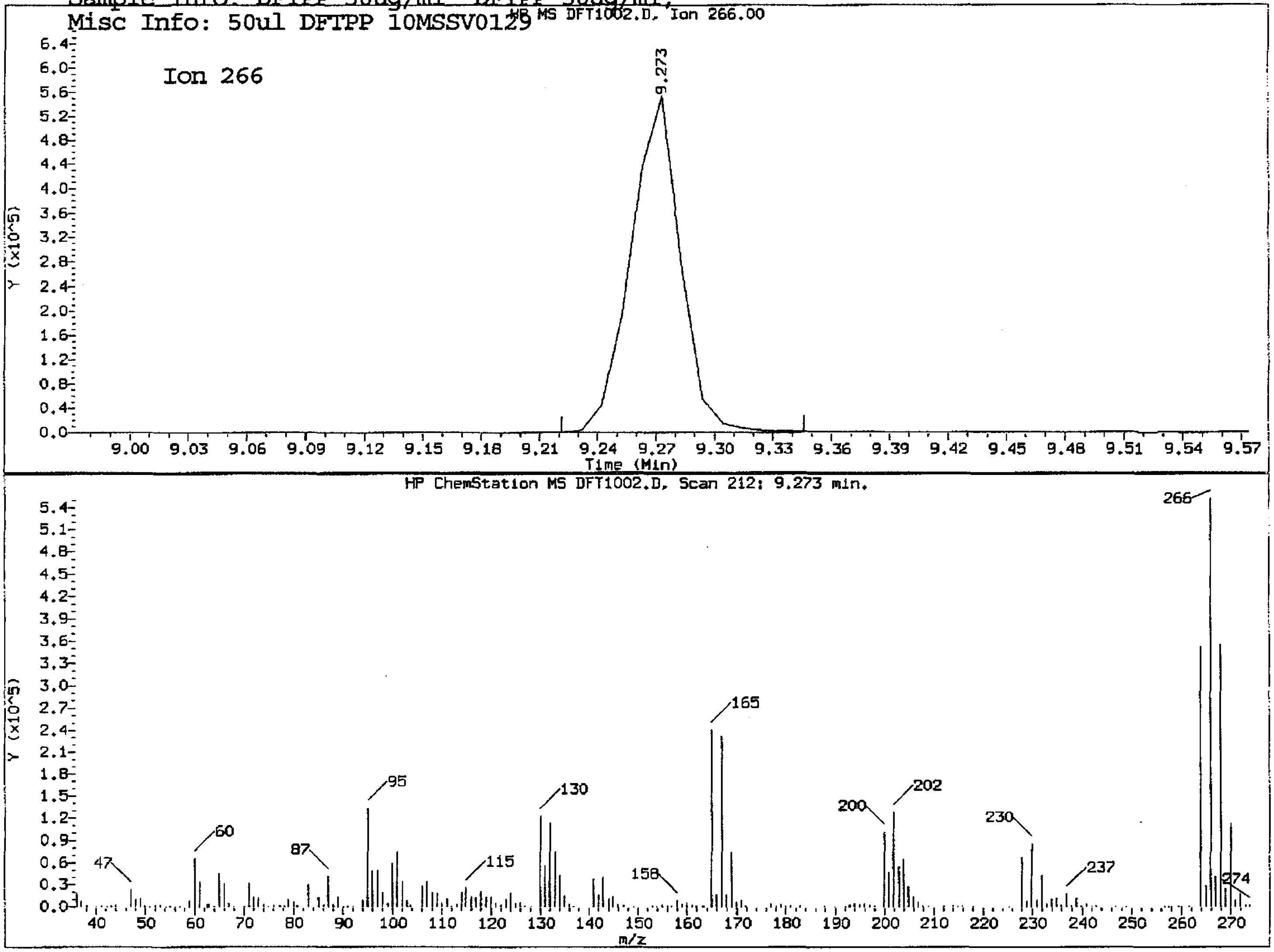
         DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY
+========================================================+
|     Compound    | Response        | %Breakdown |Max Allowed|Test|
+========================================================+
| 4,4-DDD + DDE |          189907 |        8.9 |      20.5 |PASS|
+========================================================+

                                                                ****************
Sample //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D          *** PASSED ***
                                                                ****************
```

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 02-OCT-2010 12:06 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



Pentachlorophenol
================
 Exp. RT = 9.387
Found RT = 9.273

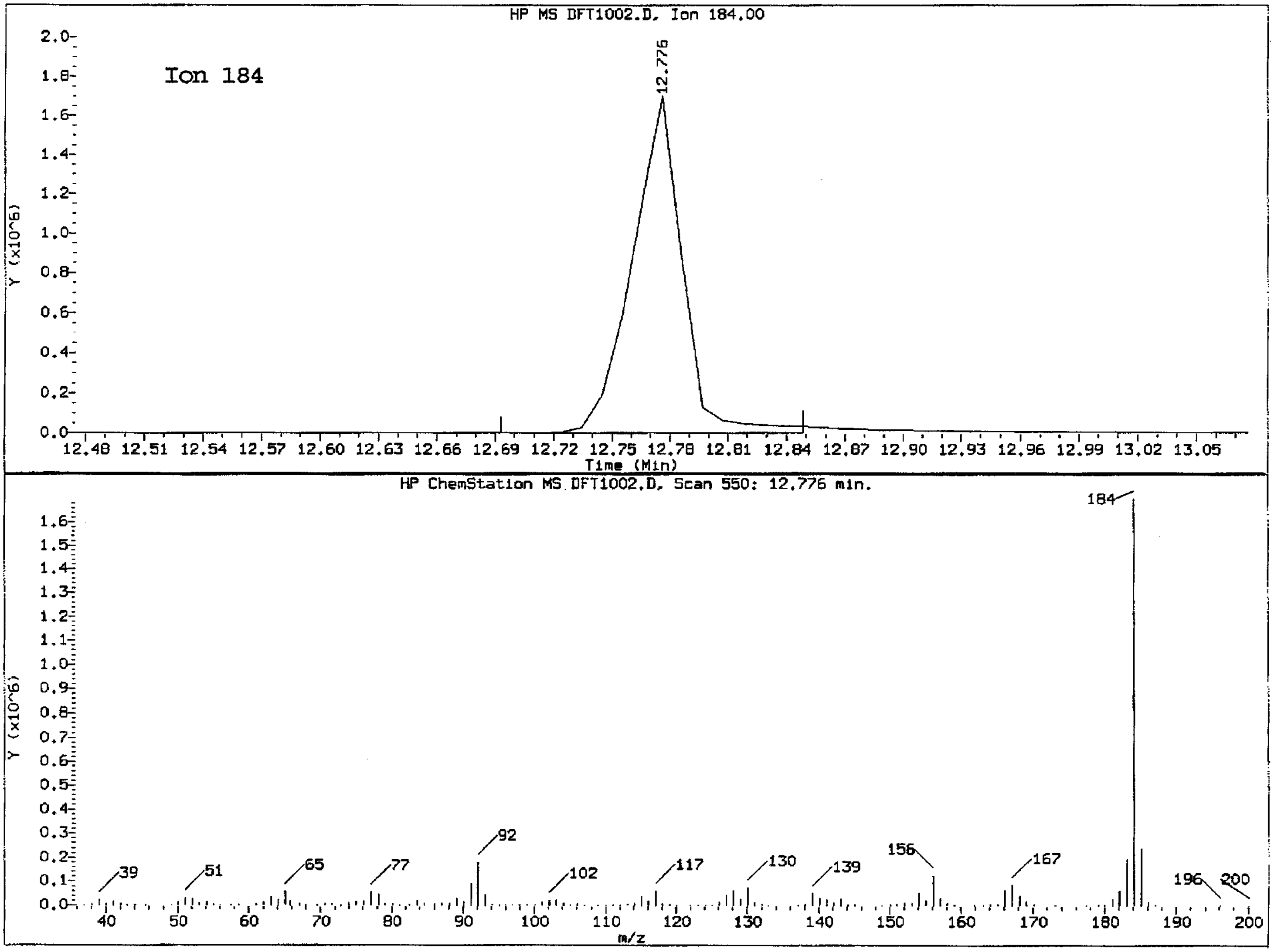
Time1 = 9.243001 Time2 = 9.273333 Time3 = 9.294038
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 0.683 Maximum Allowed = 5.0

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 02-OCT-2010 12:06 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



Benzidine
=========
Exp. RT = 12.911
Found RT = 12.776

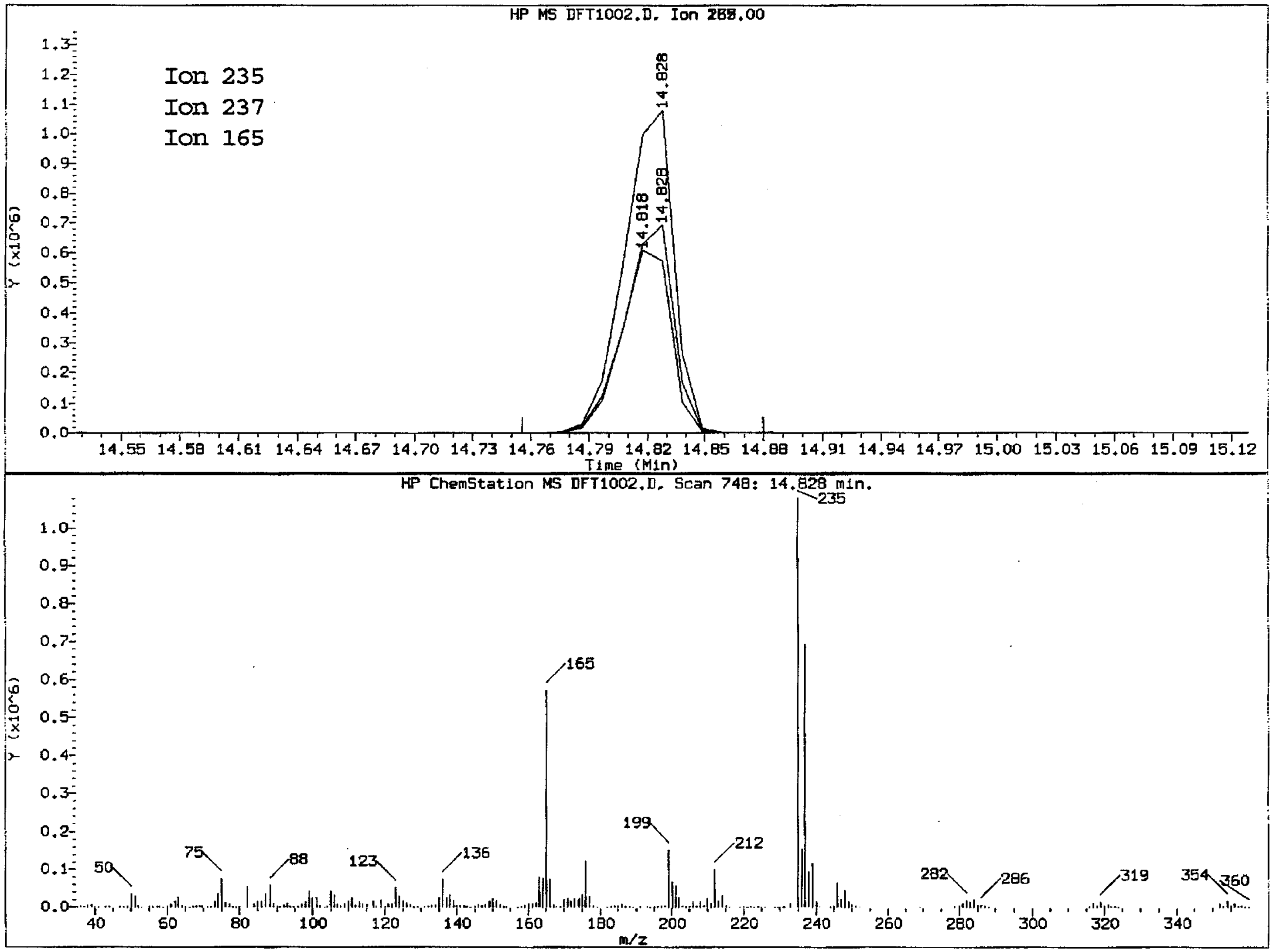
Time1 = 12.74377 Time2 = 12.77603 Time3 = 12.79618
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.624 Maximum Allowed = 3.0

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 02-OCT-2010 12:06 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129

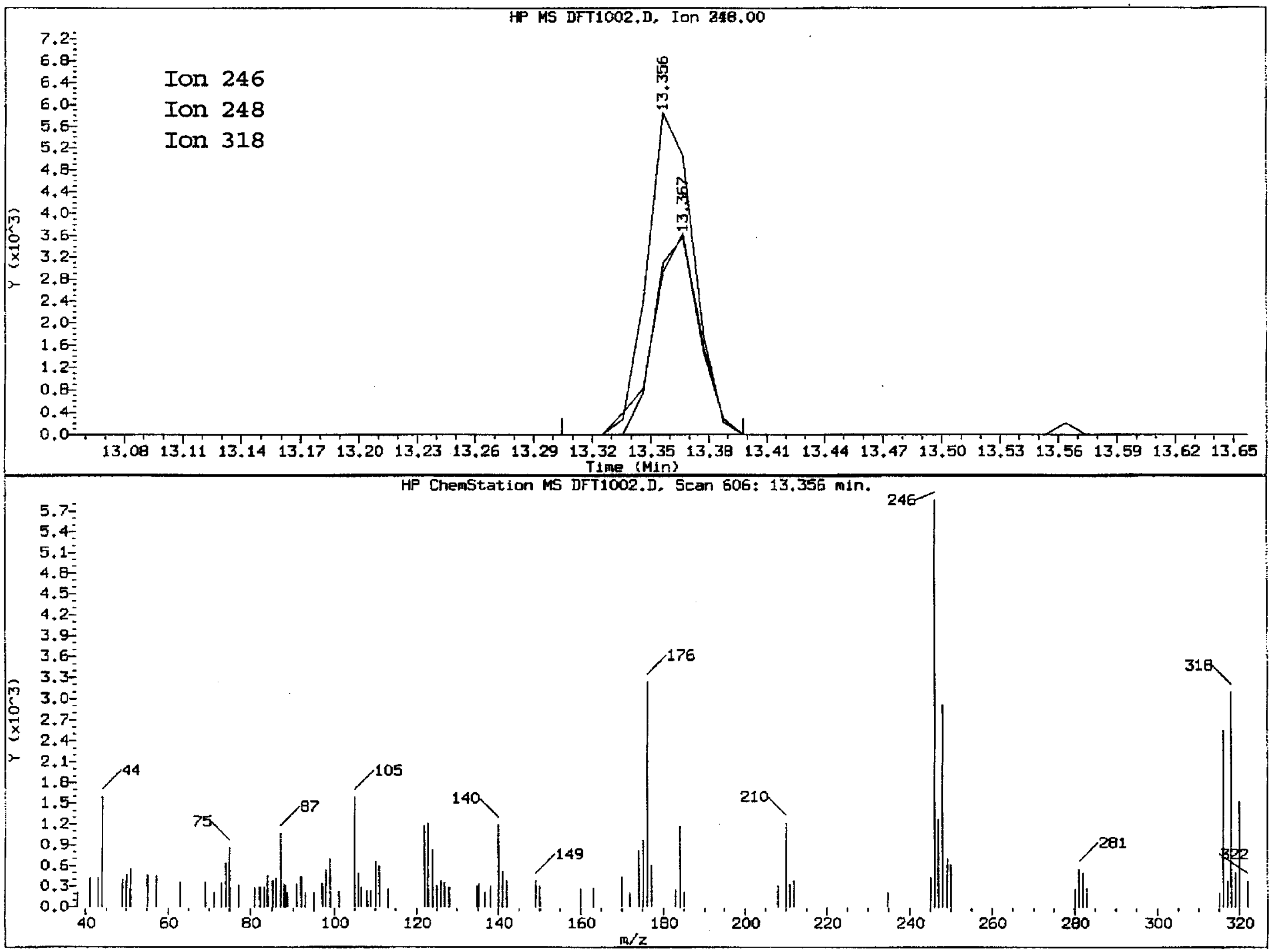


4,4'-DDT
========
Exp. RT = 14.942
Found RT = 14.828

Mass	Area	Ratio
235	1937042	100.00
237	1226081	63.30
165	1111108	57.36

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 02-OCT-2010 12:06 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129



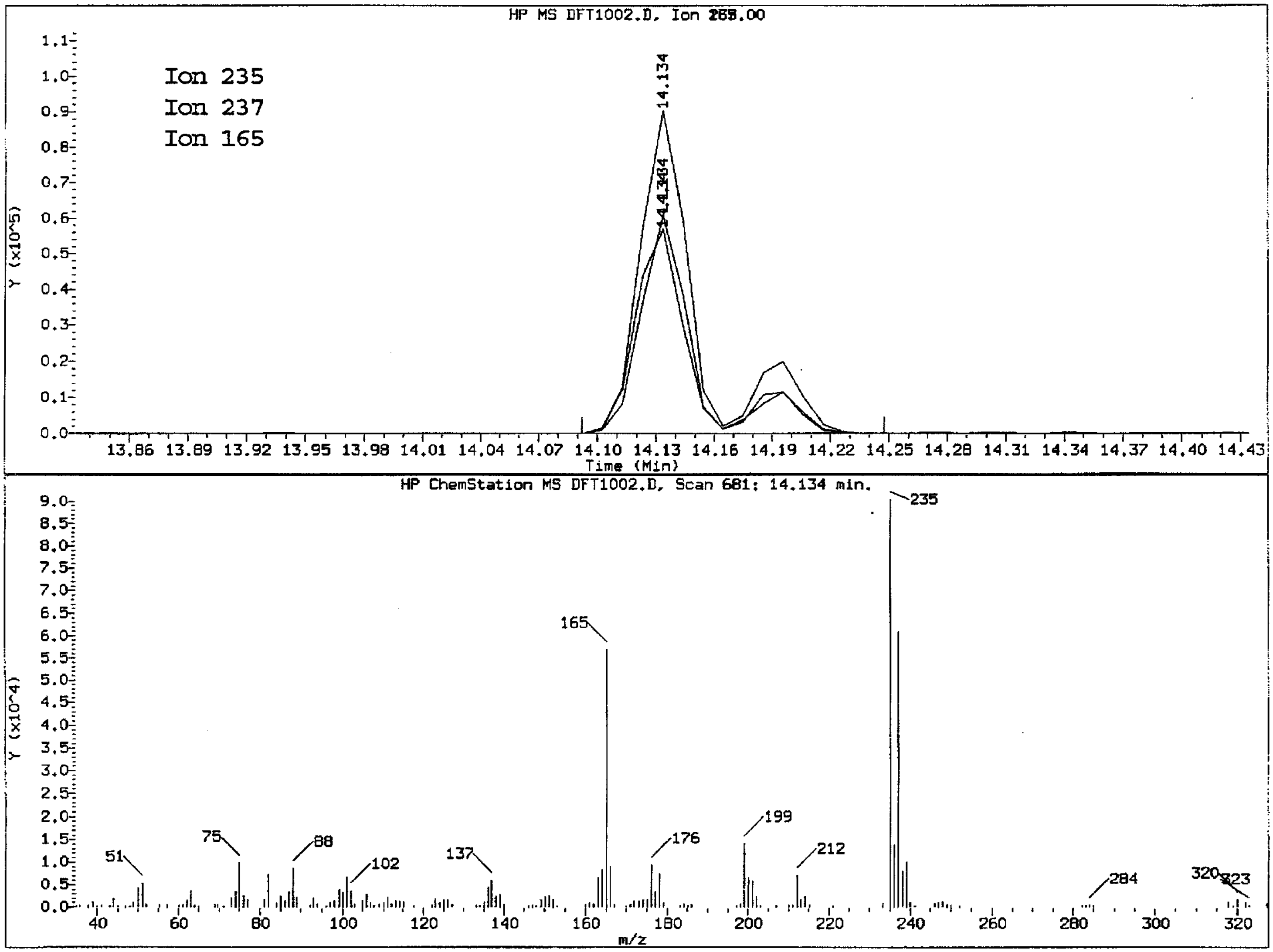
4,4'-DDE
========

Exp. RT = 13.470
Found RT = 13.356

Mass	Area	Ratio
246	9630	100.00
248	5964	61.93
318	0	0.00

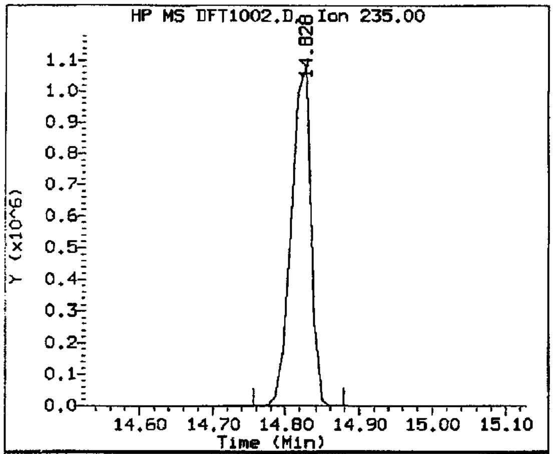
Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5
Injection Date: 02-OCT-2010 12:06 Operator: KT
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;
Misc Info: 50ul DFTPP 10MSSV0129

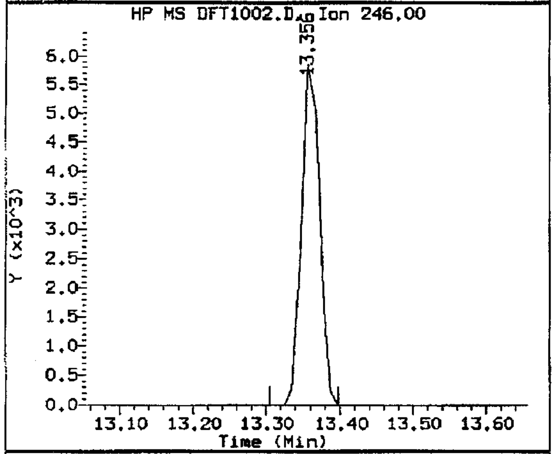


4,4'-DDD
========
Exp. RT = 14.248
Found RT = 14.134

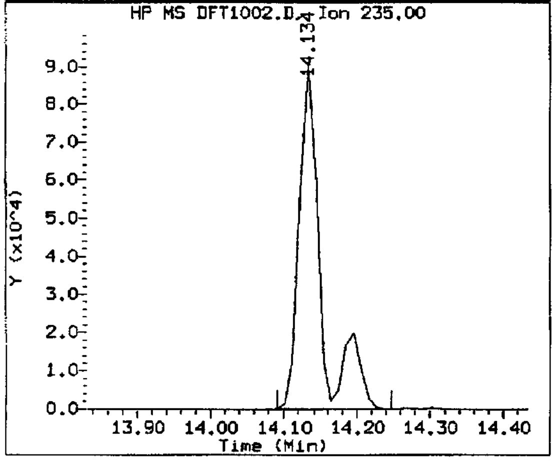
Mass	Area	Ratio
235	180277	100.00
237	115795	64.23
165	113090	62.73



Compound: 4,4'-DDT
Quant Mass: 235
RT: 14.828
Area: 1937042



Compound: 4,4'-DDE
Quant Mass: 246
RT: 13.356
Area: 9630



Compound: 4,4'-DDD
Quant Mass: 235
RT: 14.134
Area: 180277

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	189907	8.9	20.5	PASS

```
                        TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\100210.B\DFT1002.D
Lab Smp Id: DFTPP 50ug/ml
Inj Date  : 02-OCT-2010 12:06
Operator  : KT                            Inst ID: sv5.i
Smp Info  : DFTPP 50ug/ml;
Misc Info : 50ul DFTPP 10MSSV0129
Comment   :
Method    : \\SV5\C\chem\sv5.i\100210.B\DFTPP.m
Meth Date : 17-Aug-2010 14:10 scotts      Quant Type: ISTD
Cal Date  :                               Cal File:
Als bottle: 96                            QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE                        Compound Sublist: all.sub
Target Version:  4.14                     Sample Matrix: None
Processing Host: SV5

                                              CONCENTRATIONS
                                              ON-COL   FINAL
 RT    EXP RT    REL RT    MASS  RESPONSE  ( ug/L)  ( ug/L)   TARGET RANGE   RATIO
==== ======== ========  ====  ========  =======  =======   ============   =====

  1 dftpp                                          CAS #: 5074-71-5
0.000   11.201 ( 0.000)   198    746688                        0.00- 100.00  100.00
0.000   11.201 ( 0.000)    51    320640                       30.00-  80.00   42.94
0.000   11.201 ( 0.000)    68      4826                        0.00-   2.00    1.62
0.000   11.201 ( 0.000)    69    298048                        0.00-   0.00   39.92
0.000   11.201 ( 0.000)    70      1913                        0.00-   2.00    0.64
0.000   11.201 ( 0.000)   127    406528                       25.00-  75.00   54.44
0.000   11.201 ( 0.000)   197         0      0.0      0.0      0.00-   1.00    0.00
0.000   11.201 ( 0.000)   199     49104                        5.00-   9.00    6.58
0.000   11.201 ( 0.000)   275    170816                       10.00-  30.00   22.88
0.000   11.201 ( 0.000)   365     20496                        0.75-   0.00    2.74
0.000   11.201 ( 0.000)   441    100984                        0.01-  99.99   74.22
0.000   11.201 ( 0.000)   442    702528                       40.00- 110.00   94.09
0.000   11.201 ( 0.000)   443    136064                       15.00-  24.00   19.37
----------------------------------------------------------------------------------
```

Data File: \\SV5\C\chem\sv5.i\100210.B\DFT1002.D

Date : 02-OCT-2010 12:06

Client ID:

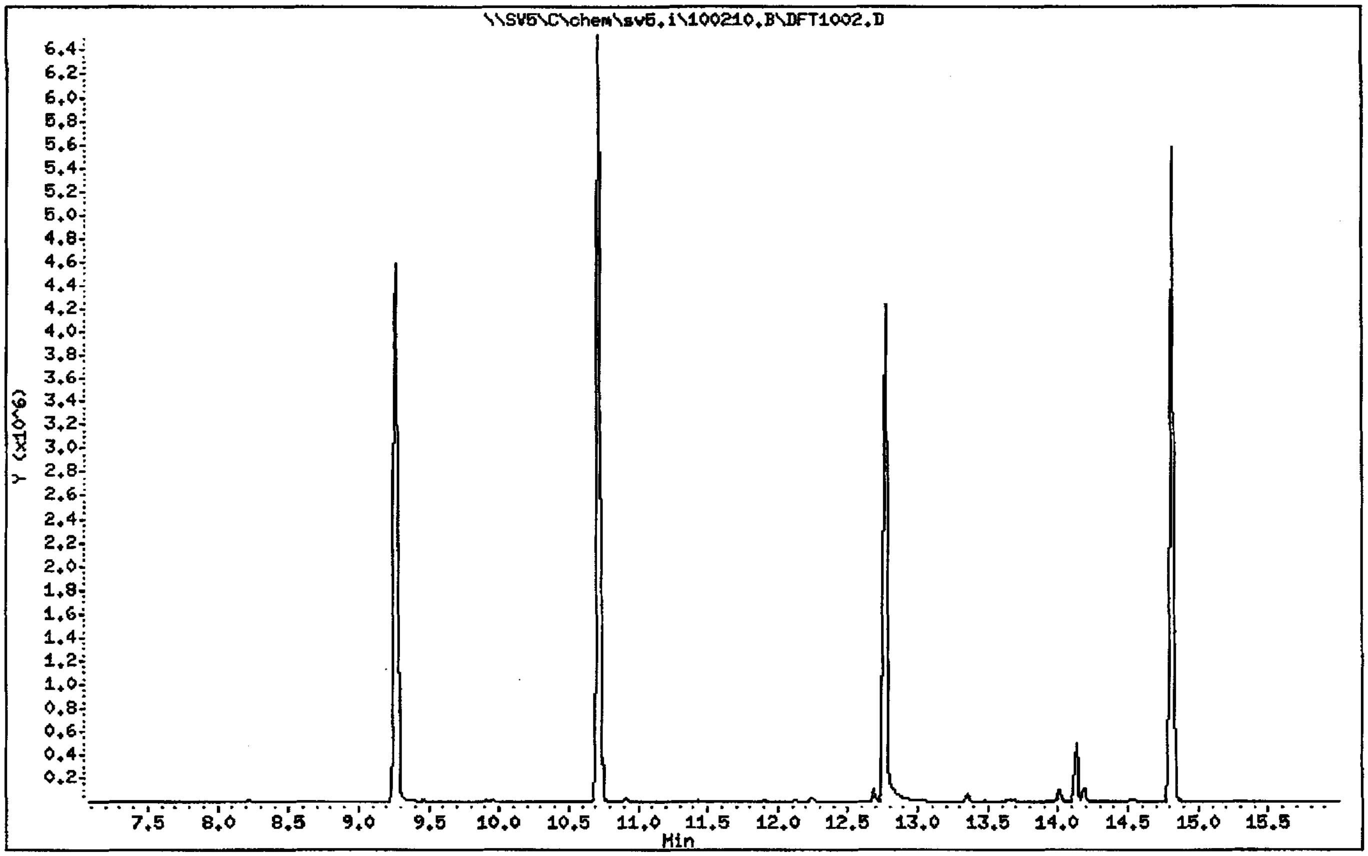
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

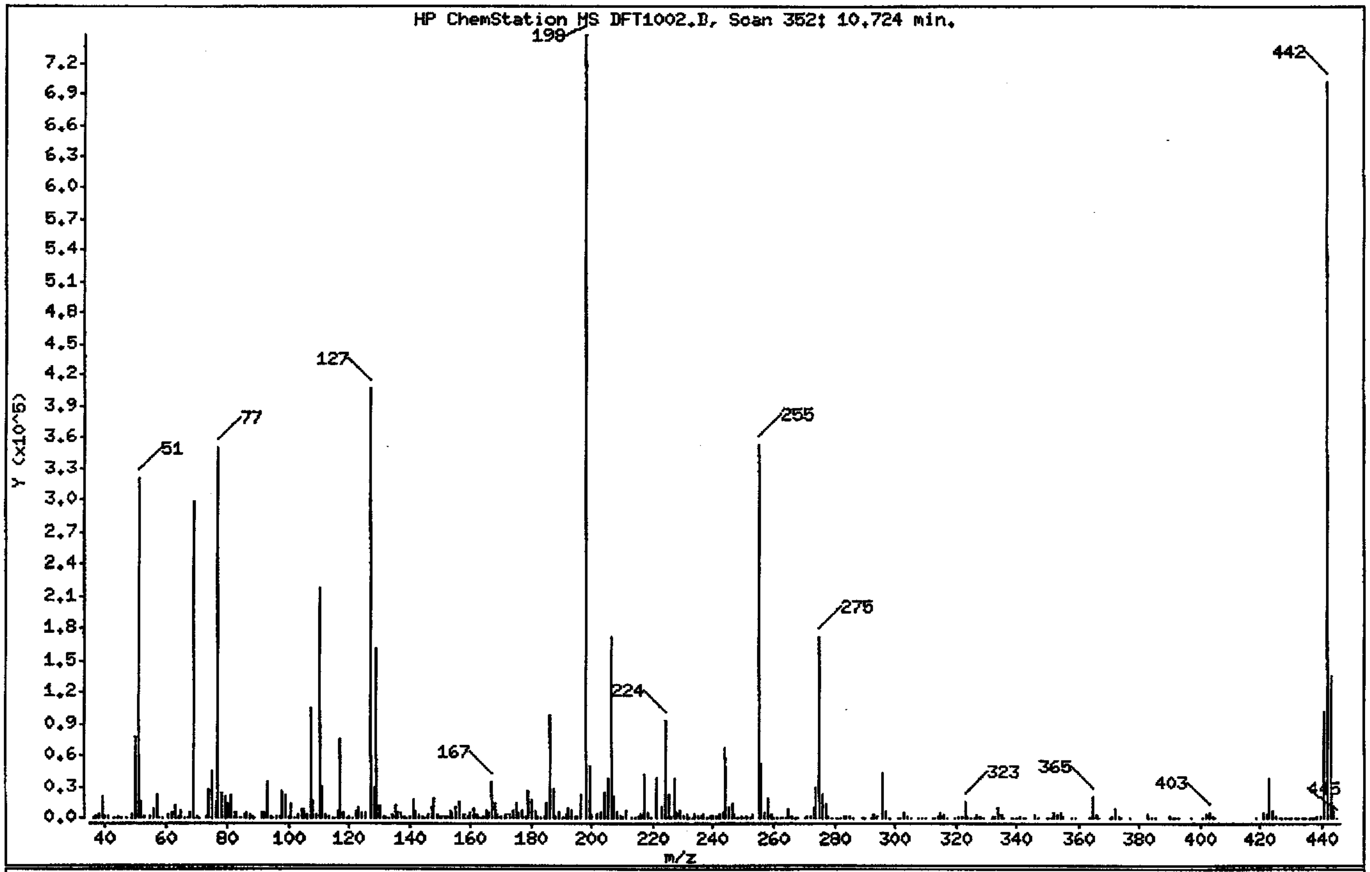
Operator: KT

Column phase:

Column diameter: 2.00



```
Data File: \\SV5\C\chem\sv5.i\100210.B\DFT1002.D                                    Page 3
Date : 02-OCT-2010 12:06
Client ID:                                         Instrument: sv5.i
Sample Info: DFTPP 50ug/ml;
                                                   Operator: KT
Column phase:                                      Column diameter:  2.00
1 dftpp
```



```
                                                                % RELATIVE
  m/e        ION ABUNDANCE CRITERIA                              ABUNDANCE
+------+------------------------------------------------+-------------------------+
|      |                                                |                         |
| 198  | Base Peak, 100% relative abundance             |   100.00                |
|  51  | 30.00 - 80.00% of mass 198                     |    42.94                |
|  68  | Less than  2.00% of mass 69                    |     0.65 (  1.62)       |
|  69  | Mass 69 relative abundance                     |    39.92                |
|  70  | Less than  2.00% of mass 69                    |     0.26 (  0.64)       |
| 127  | 25.00 - 75.00% of mass 198                     |    54.44                |
| 197  | Less than  1.00% of mass 198                   |     0.00                |
| 199  |  5.00 -  9.00% of mass 198                     |     6.58                |
| 275  | 10.00 - 30.00% of mass 198                     |    22.88                |
| 365  | Greater than  0.75% of mass 198                |     2.74                |
| 441  | Present, but less than mass 443                |    13.52                |
| 442  | 40.00 - 110.00% of mass 198                    |    94.09                |
| 443  | 15.00 - 24.00% of mass 442                     |    18.22 ( 19.37)       |
+------+------------------------------------------------+-------------------------+
```

Date : 02-OCT-2010 12:06

Client ID: Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase: Column diameter: 2.00

Data File: DFT1002.D
Spectrum: HP ChemStation MS DFT1002.D, Scan 352: 10.724 min.
Location of Maximum: 198.00
Number of points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	203	130.00	12809	219.20	447	321.00	1763
37.10	1216	131.00	2287	221.00	37608	322.10	913
38.10	3314	132.00	1225	223.10	9674	323.10	16294
39.10	21392	133.00	620	224.10	93432	324.10	2245
40.00	1076	134.00	3794	225.10	21544	324.60	382
41.10	949	135.10	11378	226.10	1736	326.00	507
43.10	352	136.00	4886	227.00	37976	327.00	2789
44.00	922	137.00	5203	228.00	4945	328.00	1262
45.00	428	138.00	1265	229.00	7548	329.10	343
47.00	204	139.00	791	230.00	1024	331.90	894
49.10	2676	140.00	2233	231.10	2757	333.00	1455
50.10	77024	141.00	17480	232.00	528	334.10	9590
51.10	320640	142.00	7259	233.00	641	335.00	2774
52.10	16189	143.00	3921	234.00	2909	336.00	291
53.10	963	144.00	1375	235.00	2419	339.00	369
55.00	1815	145.10	829	236.10	1608	340.00	399
56.00	8872	146.00	3251	237.00	3192	341.00	2042
57.00	22504	147.00	9463	238.00	581	342.10	852
58.00	755	148.00	18744	239.00	1185	343.20	220
59.10	372	149.00	4031	240.00	1065	346.00	2819
61.00	3888	150.10	1094	241.00	1870	346.90	608
62.00	4800	151.20	2277	242.00	3682	350.30	205
63.10	11199	152.10	1506	243.10	4924	351.00	283
64.10	1448	153.00	6113	244.10	66488	352.00	5049
65.10	6509	154.00	5445	245.10	9865	353.10	3110
66.00	499	155.00	10151	246.00	14573	354.00	5432
67.10	461	156.10	14866	247.00	3022	355.00	1087
68.00	4826	157.10	3676	248.10	618	358.00	241
69.00	298048	158.10	3734	249.00	2441	359.00	574
70.10	1913	159.00	2313	250.00	627	363.50	249
71.10	410	160.00	5246	250.90	1000	365.00	20496
73.10	2021	161.10	8666	252.00	756	366.00	3166
74.00	28000	162.00	2863	253.10	2603	367.00	225
75.00	45304	163.10	562	255.00	353024	370.10	477
76.10	15795	164.00	1067	256.00	51440	370.90	1541

Data File: \\SV5\C\chem\sv5.i\100210.B\DFT1002.D
Date : 02-OCT-2010 12:06
Client ID: Instrument: sv5.i
Sample Info: DFTPP 50ug/ml;
Operator: KT
Column phase: Column diameter: 2.00

```
                Data File: DFT1002.D
                 Spectrum: HP ChemStation MS DFT1002.D, Scan 352: 10.724 min.
      Location of Maximum: 198.00
         Number of points: 340

     m/z          Y      m/z          Y      m/z          Y      m/z          Y
+-------------------+-------------------+-------------------+-------------------+
|   77.10    349952 | 165.00       6962 | 257.00       4474 | 372.10       8489 |
|   78.10     23464 | 166.00       5717 | 258.00      19604 | 373.10       1814 |
|   79.00     20048 | 167.00      33648 | 259.10       3095 | 373.80        348 |
|   80.00     14146 | 168.00      13682 | 260.00        645 | 377.10        263 |
|   81.00     22008 | 169.00       2802 | 261.10        797 | 383.00       2624 |
+-------------------+-------------------+-------------------+-------------------+
|   82.00      5822 | 170.00       1014 | 262.20        249 | 383.90        598 |
|   83.00      5093 | 171.00       1339 | 263.00        269 | 385.00        289 |
|   84.00       814 | 172.00       3224 | 264.10        532 | 390.00       1367 |
|   85.00      3848 | 173.00       4109 | 265.00       7904 | 391.00        754 |
|   86.00      5985 | 174.00       7189 | 266.00       1181 | 392.10        664 |
+-------------------+-------------------+-------------------+-------------------+
|   87.00      2652 | 175.10      13638 | 267.20        204 | 393.20        281 |
|   88.00      1078 | 176.10       4293 | 267.60        232 | 397.00        230 |
|   89.00       472 | 177.00       6577 | 270.00        489 | 400.90        335 |
|   91.00      5074 | 178.10       1972 | 271.00        901 | 402.00       3464 |
|   92.00      5292 | 179.00      25912 | 272.10       1129 | 403.00       5568 |
+-------------------+-------------------+-------------------+-------------------+
|   93.00     34848 | 180.00      16984 | 273.00      10963 | 404.10       1777 |
|   94.00      2386 | 181.00       7182 | 274.00      30032 | 405.00        292 |
|   95.00       749 | 182.00       1363 | 275.00     170816 | 418.90        259 |
|   96.00      1660 | 183.00        559 | 276.10      22944 | 421.00       5400 |
|   97.10      1007 | 184.10       2227 | 277.00      13493 | 422.00       4183 |
+-------------------+-------------------+-------------------+-------------------+
|   98.00     25944 | 185.10      13301 | 278.10       2251 | 423.00      37592 |
|   99.00     21688 | 186.00      97584 | 279.00        648 | 424.00       6802 |
|  100.00      1844 | 187.10      27792 | 281.10        266 | 425.00        930 |
|  101.00     13609 | 188.10       2556 | 282.00        217 | 426.50        251 |
|  102.10       646 | 189.00       5094 | 283.00       1957 | 427.30        338 |
+-------------------+-------------------+-------------------+-------------------+
|  103.00      3748 | 189.90        756 | 284.00       1097 | 428.40        200 |
|  104.00      8390 | 191.10       2995 | 285.10       2569 | 429.20        300 |
|  105.00      8359 | 192.00       7909 | 286.10        444 | 430.20        272 |
|  106.10      3007 | 193.00       7605 | 289.00        691 | 431.10        404 |
|  107.00    104896 | 194.10       1998 | 290.10        589 | 431.50        324 |
+-------------------+-------------------+-------------------+-------------------+
|  108.00     17616 | 195.10       1331 | 292.10        763 | 432.20        298 |
|  109.00      3545 | 196.00      22448 | 293.00       3141 | 432.50        326 |
|  110.00    218112 | 198.00     746688 | 294.10       1275 | 433.30        317 |
|  111.00     30736 | 199.00      49104 | 296.00      42616 | 433.70        342 |
|  112.00      4281 | 200.00       4038 | 297.00       6196 | 434.30        362 |
```

Date : 02-OCT-2010 12:06

Client ID: Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase: Column diameter: 2.00

Data File: DFT1002.D
Spectrum: HP ChemStation MS DFT1002.D, Scan 352: 10.724 min.
Location of Maximum: 198.00
Number of points: 340

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	1310	201.60	4029	298.00	465	434.90	650
114.40	467	203.00	4788	301.00	504	435.90	530
115.00	646	204.00	23416	302.00	695	436.50	586
116.10	6327	205.00	38288	303.10	5810	436.90	846
117.00	75520	206.10	172352	304.00	2035	437.50	828
118.00	5507	207.10	21328	305.10	290	438.20	1136
119.00	839	208.00	5487	308.00	764	439.30	1287
120.10	1180	209.00	2186	309.10	446	441.00	100984
121.00	807	210.00	2002	310.00	839	442.00	702528
122.00	6408	211.10	7473	312.20	271	443.00	136064
123.00	10302	213.00	410	312.90	292	444.00	12344
124.00	4600	214.10	372	314.00	2431	445.10	689
125.00	4447	215.10	1837	315.00	5363		
127.00	406528	216.00	3226	316.00	2900		
128.00	28392	217.00	41648	317.10	363		
129.00	161024	218.00	5388	319.80	287		

```
                          TestAmerica West Sacramento

                                 Method 8270C
Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002A.D
Lab Smp Id: HSL_005 ug/ml CS-1          Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 12:27
Operator  : KT                          Inst ID: sv5.i
Smp Info  : HSL_005 ug/ml CS-1;1;;1;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0307;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\100210.B\8270f.m
Meth Date : 03-Oct-2010 11:09 onishim    Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19           Cal File: AP90817D.D
Als bottle: 1                           Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon                      Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SACP307UM

                                                                               AMOUNTS
                                   QUANT SIG                                   CAL-AMT    ON-COL
Compounds                            MASS       RT    EXP RT   REL RT  RESPONSE  (   NG)   (   NG)
=========================            ====     ====  ======== ======== ========  =======   =======
*   1 1,4-Dichlorobenzene-d4          152     3.955    3.955 (1.000)    141539  40.0000           (Q)
*   2 Naphthalene-d8                  136     5.374    5.374 (1.000)    605687  40.0000
*   3 Acenaphthene-d10                164     7.468    7.468 (1.000)    321839  40.0000
*   4 Phenanthrene-d10                188     9.406    9.405 (1.000)    496356  40.0000
*   5 Chrysene-d12                    240    13.779   13.779 (1.000)    453007  40.0000
*   6 Perylene-d12                    264    16.162   16.162 (1.000)    445119  40.0000
$   7 2-Fluorophenol                  112     2.742    2.732 (0.693)     25566  5.00000     5.124
$   8 Phenol-d5                        99     3.613    3.613 (0.914)     30471  5.00000     4.857
$   9 2-Chlorophenol-d4               132     3.758    3.758 (0.950)     26144  5.00000     4.745
$  10 1,2-Dichlorobenzene-d4          152     4.162    4.162 (1.052)     16945  5.00000     4.861
$  11 Nitrobenzene-d5                  82     4.576    4.576 (0.852)     25006  5.00000     4.874(M)
$  12 2-Fluorobiphenyl                172     6.680    6.680 (0.895)     51695  5.00000     4.986
$  13 2,4,6-Tribromophenol            330     8.473    8.473 (1.135)      6048  5.00000     4.325
$  14 Terphenyl-d14                   244    12.017   12.017 (0.872)     44456  5.00000     4.982
   15 N-Nitrosodimethylamine           74     1.716    1.706 (0.434)     16436  5.00000     5.040(q)
   16 Pyridine                         79     1.737    1.726 (0.439)     29567  5.00000     5.422(q)
   23 Aniline                          93     3.654    3.654 (0.924)     39064  5.00000     4.892(Q)
   24 Phenol                           94     3.623    3.623 (0.916)     36112  5.00000     5.009(Q)
   26 Bis(2-chloroethyl)ether          93     3.716    3.716 (0.940)     26067  5.00000     5.157
   27 2-Chlorophenol                  128     3.768    3.768 (0.953)     26910  5.00000     4.863
   28 1,3-Dichlorobenzene             146     3.923    3.923 (0.992)     29883  5.00000     4.958
   29 1,4-Dichlorobenzene             146     3.975    3.975 (1.005)     31337  5.00000     4.972
   30 Benzyl Alcohol                  108     4.120    4.120 (1.042)     17983  5.00000     4.835
   31 1,2-Dichlorobenzene             146     4.172    4.172 (1.055)     28663  5.00000     4.947
   32 2-Methylphenol                  108     4.255    4.255 (1.076)     24914  5.00000     4.923
   33 2,2'-oxybis(1-Chloropropane)     45     4.297    4.297 (1.086)     40622  5.00000     5.049
   34 4-Methylphenol                  108     4.421    4.421 (1.118)     26292  5.00000     4.891
   36 Hexachloroethane                117     4.504    4.504 (1.139)     10779  5.00000     5.024
   37 N-Nitrosodinpropylamine          70     4.442    4.442 (1.123)     16719  5.00000     4.670
   42 Nitrobenzene                     77     4.597    4.597 (0.855)     24875  5.00000     4.960
   44 Isophorone                       82     4.856    4.856 (0.904)     48024  5.00000     4.980
   45 2-Nitrophenol                   139     4.960    4.960 (0.923)     14088  5.00000     4.735
   46 2,4-Dimethyphenol               107     5.012    5.012 (0.933)     26089  5.00000     4.935
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10-7-10

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Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002A.D                    Page 2
Report Date: 03-Oct-2010 11:11

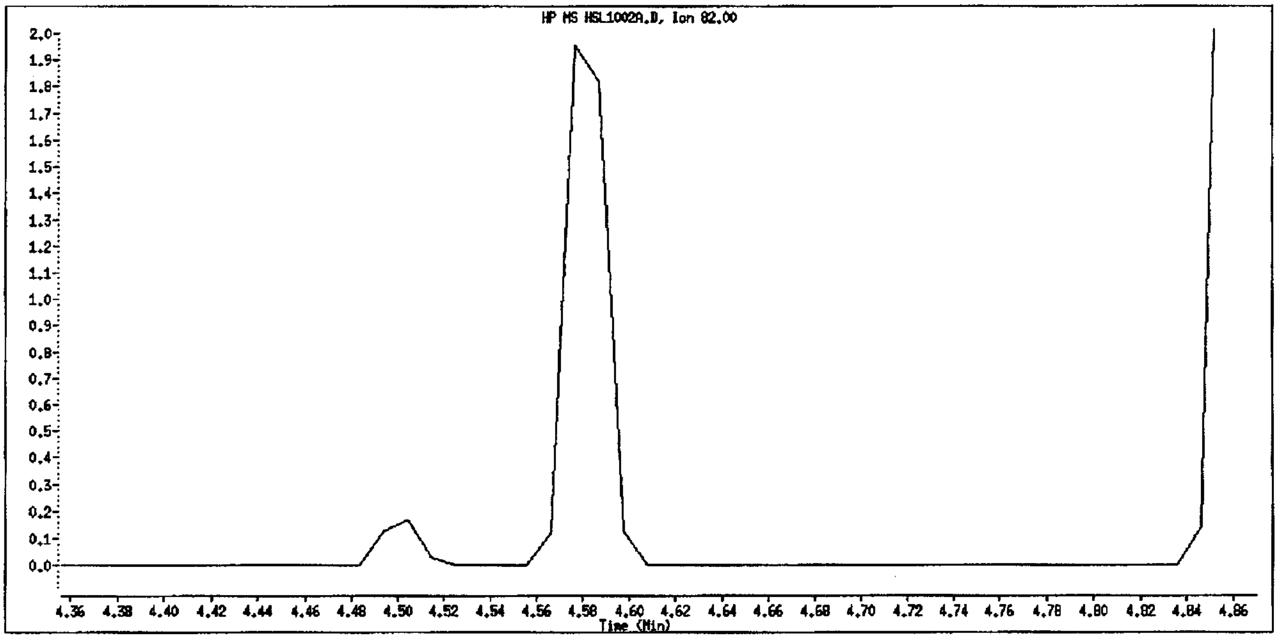
                                                                                  AMOUNTS
                                     QUANT SIG                                    CAL-AMT    ON-COL
Compounds                              MASS        RT    EXP RT   REL RT  RESPONSE  (   NG)   (   NG)
==========================             ====      ====  ======== ======== ========  =======   =======
   47 Bis(2-chloroethoxy)methane         93       5.126   5.126 (0.954)     31152  5.00000     5.288
   49 2,4-Dichlorophenol                162       5.229   5.229 (0.973)     19256  5.00000     4.708
   50 Benzoic Acid                      122       5.084   5.115 (0.946)     12679  5.00000     4.333
   51 1,2,4-Trichlorobenzene            180       5.322   5.322 (0.990)     22282  5.00000     5.032
   52 Naphthalene                       128       5.395   5.395 (1.004)     83236  5.00000     4.977
   54 4-Chloroaniline                   127       5.488   5.488 (1.021)     30853  5.00000     4.707
   57 Hexachlorobutadiene               225       5.613   5.613 (1.044)     10823  5.00000     4.994
   60 4-Chloro-3-Methylphenol           107       6.069   6.069 (1.129)     22205  5.00000     4.862
   63 2-Methylnaphthalene               142       6.203   6.203 (1.154)     51849  5.00000     4.936
   66 Hexachlorocyclopentadiene         237       6.483   6.483 (0.868)     10813  5.00000     4.503
   69 2,4,6-Trichlorophenol             196       6.576   6.576 (0.881)     12546  5.00000     4.886
   70 2,4,5-Trichlorphenol              196       6.628   6.628 (0.888)     12400  5.00000     4.483
   71 2-Chloronaphthalene               162       6.784   6.784 (0.908)     45713  5.00000     5.047
   73 2-Nitroaniline                     65       6.949   6.949 (0.931)     12703  5.00000     4.627
   76 Dimethylphthalate                 163       7.219   7.229 (0.967)     49639  5.00000     4.760
   77 Acenaphthylene                    152       7.281   7.281 (0.975)     75041  5.00000     4.758
   79 2,6-Dinitrotoluene                165       7.291   7.302 (0.976)     11404  5.00000     4.694(QM)
   80 3-Nitroaniline                    138       7.447   7.447 (0.997)     14226  5.00000     4.691(Q)
   81 Acenaphthene                      153       7.509   7.509 (1.006)     50639  5.00000     5.044
   82 2,4-Dinitrophenol                 184       7.571   7.572 (1.014)      4083  5.00000     6.945(q)
   83 Dibenzofuran                      168       7.696   7.706 (1.031)     63477  5.00000     4.764
   84 4-Nitrophenol                     109       7.675   7.675 (1.028)      5114  5.00000     4.065(Q)
   86 2,4-Dinitrotoluene                165       7.768   7.768 (1.040)     13823  5.00000     4.335(q)
   91 Fluorene                          166       8.131   8.131 (1.089)     54136  5.00000     4.906
   92 Diethylphthalate                  149       8.100   8.100 (1.085)     49177  5.00000     4.606
   93 4-Chlorophenyl-phenylether        204       8.152   8.152 (1.092)     22112  5.00000     4.820
   94 4-Nitroaniline                    138       8.214   8.214 (1.100)     13415  5.00000     4.463
   97 4,6-Dinitro-2-methylphenol        198       8.276   8.276 (0.880)      5780  5.00000     7.325(q)
   98 N-Nitrosodiphenylamine            169       8.317   8.317 (0.884)     41998  5.86000     5.582
  100 Azobenzene                         77       8.348   8.348 (0.888)     48101  5.00000     4.928
  101 4-Bromophenyl-phenylether         248       8.794   8.794 (0.935)     11766  5.00000     4.856
  108 Hexachlorobenzene                 284       8.981   8.981 (0.955)     14244  5.00000     5.264
  110 Pentachlorophenol                 266       9.240   9.240 (0.982)      5849  5.00000     7.264
  114 Phenanthrene                      178       9.437   9.437 (1.003)     80873  5.00000     5.169
  115 Anthracene                        178       9.499   9.499 (1.010)     77577  5.00000     4.963
  118 Carbazole                         167       9.768   9.768 (1.039)     70241  5.00000     4.920
  120 Di-n-Butylphthalate               149      10.463  10.463 (1.112)     79722  5.00000     4.641
  126 Fluoranthene                      202      11.302  11.302 (1.202)     64427  5.00000     4.596
  127 Benzidine                         184      11.571  11.571 (0.840)     44267  5.00000     4.822
  128 Pyrene                            202      11.665  11.665 (0.847)     71230  5.00000     5.030
  134 3,3'-dimethylbenzidine            212      12.867  12.867 (0.934)     37074  5.00000     4.574
  136 Butylbenzylphthalate              149      12.991  12.991 (0.943)     36798  5.00000     5.185
  138 Benzo(a)Anthracene                228      13.758  13.758 (0.998)     62384  5.00000     5.170
  139 Chrysene                          228      13.820  13.831 (1.003)     59618  5.00000     4.830
  140 3,3'-Dichlorobenzidine            252      13.799  13.799 (1.002)     22168  5.00000     4.870
  141 bis(2-ethylhexyl)Phthalate        149      14.110  14.110 (1.024)     51997  5.00000     5.319
  142 Di-n-octylphthalate               149      15.157  15.167 (1.100)     76353  5.00000     4.886
  144 Benzo(b)fluoranthene              252      15.572  15.582 (0.963)     45075  5.00000     4.473(Q)
  145 Benzo(k)fluoranthene              252      15.613  15.623 (0.966)     68403  5.00000     5.288(q)
  147 Benzo(e)pyrene                    252      15.996  16.007 (0.990)     50295  5.00000     4.786
  148 Benzo(a)pyrene                    252      16.069  16.079 (0.994)     54694  5.00000     4.788
  151 Indeno(1,2,3-cd)pyrene            276      17.789  17.800 (1.101)     41053  5.00000     4.443
  152 Dibenzo(a,h)anthracene            278      17.841  17.841 (1.104)     49018  5.00000     4.749
  153 Benzo(g,h,i)perylene              276      18.224  18.235 (1.128)     53428  5.00000     4.781
```

```
                                                                                    AMOUNTS
                                        QUANT SIG                                   CAL-AMT   ON-COL
Compounds                                 MASS       RT   EXP RT   REL RT  RESPONSE  (   NG)   (   NG)
=============================             ====      ==== ======== ======== ========  =======   =======
M 162 benzo b,k Fluoranthene Totals        252                               113478  5.00000     4.931(A)
```

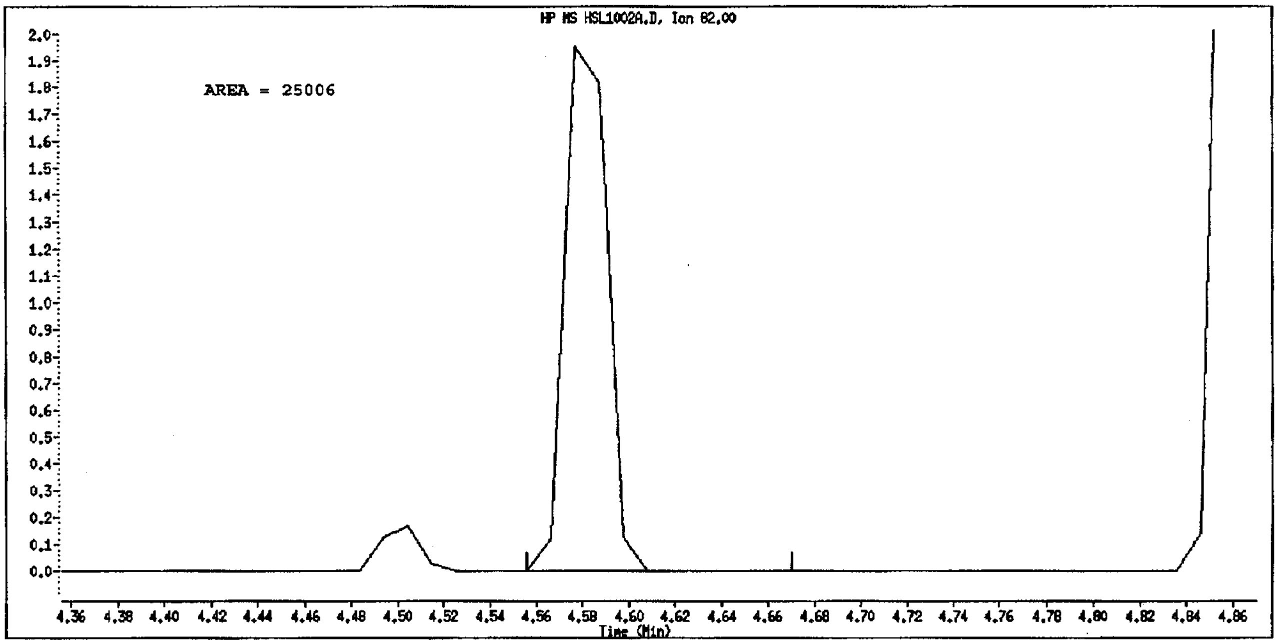
QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
q - Qualifier signal exceeded ratio warning limit.

Data File Name: HSL1002A.D
Inj. Date and Time: 02-OCT-2010 12:27
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Nitrobenzene-d5
CAS #: 4165-60-0
Report Date: 10/03/2010



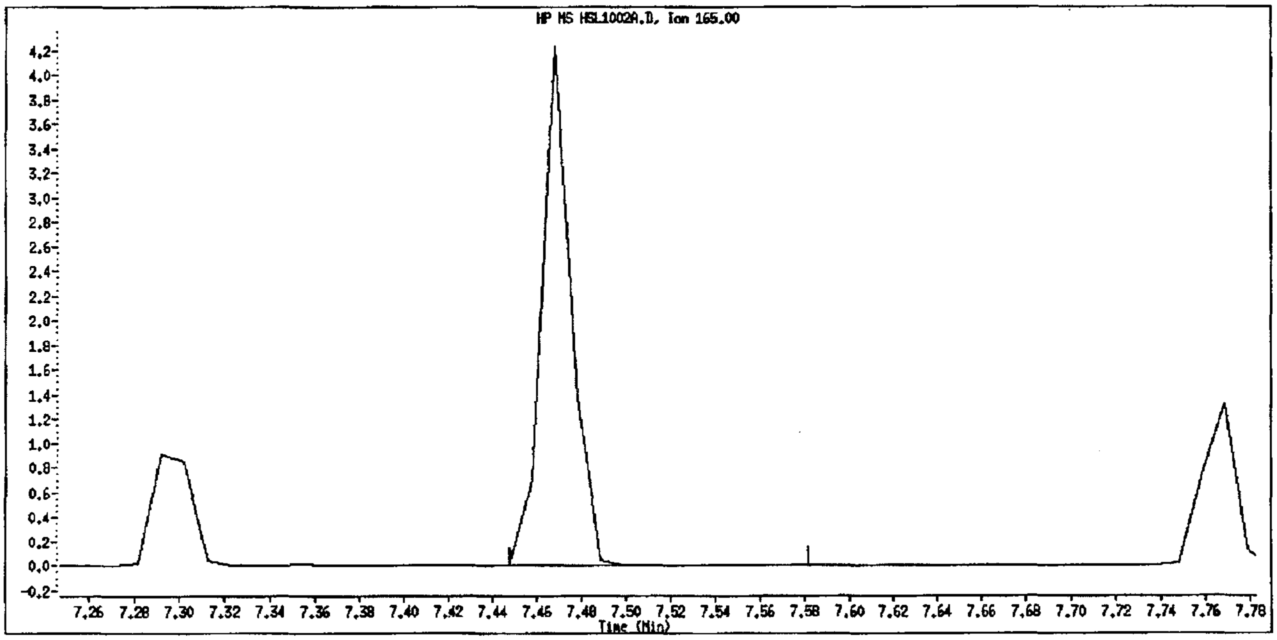
Original Integration



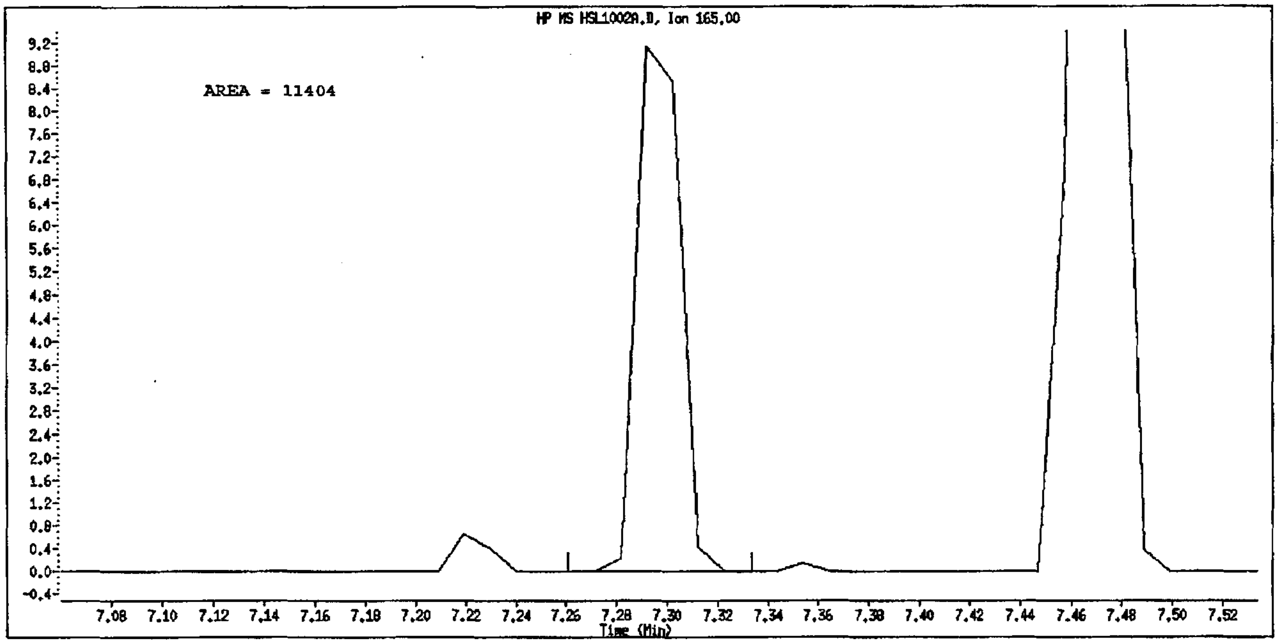
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Peak Not Found

Data File Name: HSL1002A.D
Inj. Date and Time: 02-OCT-2010 12:27
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: 2,6-Dinitrotoluene
CAS #: 606-20-2
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Wrong Peak

```
                      TestAmerica West Sacramento

                             Method 8270C
Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002A.D
Lab Smp Id: HSL_005 ug/ml CS-1           Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 12:27
Operator  : KT                           Inst ID: sv5.i
Smp Info  : HSL_005 ug/ml CS-1;1;;1;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0307;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Meth Date : 02-Oct-2010 16:57 onishim    Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19            Cal File: AP90817D.D
Als bottle: 1                            Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon                       Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SV5


                                                                                   AMOUNTS
                                   QUANT SIG                                  CAL-AMT   ON-COL
Compounds                            MASS       RT    EXP RT   REL RT  RESPONSE  (   NG)   (   NG)
==========================           ====     ====  ======== ======== ========  =======   =======
*   1 1,4-Dichlorobenzene-d4          152     3.955    3.955 (1.000)    141539  40.0000            (Q)
*   2 Naphthalene-d8                  136     5.374    5.374 (1.000)    605687  40.0000
*   3 Acenaphthene-d10                164     7.468    7.468 (1.000)    321839  40.0000
*   4 Phenanthrene-d10                188     9.406    9.405 (1.000)    496356  40.0000
*   5 Chrysene-d12                    240    13.779   13.779 (1.000)    453007  40.0000
*   6 Perylene-d12                    264    16.162   16.162 (1.000)    445119  40.0000
$   7 2-Fluorophenol                  112     2.742    2.732 (0.693)     25566  5.00000    4.894
$   8 Phenol-d5                        99     3.613    3.613 (0.914)     30471  5.00000    4.587
$   9 2-Chlorophenol-d4               132     3.758    3.758 (0.950)     26144  5.00000    4.616
$  10 1,2-Dichlorobenzene-d4          152     4.162    4.162 (1.052)     16945  5.00000    4.793
$  11 Nitrobenzene-d5                  82          Compound Not Detected.
$  12 2-Fluorobiphenyl                172     6.680    6.680 (0.895)     51695  5.00000    5.015
$  13 2,4,6-Tribromophenol            330     8.473    8.473 (1.135)      6048  5.00000    4.760
$  14 Terphenyl-d14                   244    12.017   12.017 (0.872)     44456  5.00000    5.032
   15 N-Nitrosodimethylamine           74     1.716    1.706 (0.434)     16436  5.00000    4.767(q)
   16 Pyridine                         79     1.737    1.726 (0.439)     29567  5.00000    5.146
   23 Aniline                          93     3.654    3.654 (0.924)     39064  5.00000    4.689(Q)
   24 Phenol                           94     3.623    3.623 (0.916)     36112  5.00000    5.111(Q)
   26 Bis(2-chloroethyl)ether          93     3.716    3.716 (0.940)     26067  5.00000    4.856
   27 2-Chlorophenol                  128     3.768    3.768 (0.953)     26910  5.00000    4.813
   28 1,3-Dichlorobenzene             146     3.923    3.923 (0.992)     29883  5.00000    4.837
   29 1,4-Dichlorobenzene             146     3.975    3.975 (1.005)     31337  5.00000    5.017
   30 Benzyl Alcohol                  108     4.120    4.120 (1.042)     17983  5.00000    4.681
   31 1,2-Dichlorobenzene             146     4.172    4.172 (1.055)     28663  5.00000    4.842
   32 2-Methylphenol                  108     4.255    4.255 (1.076)     24914  5.00000    4.770
   33 2,2'-oxybis(1-Chloropropane)     45     4.297    4.297 (1.086)     40622  5.00000    4.077
   34 4-Methylphenol                  108     4.421    4.421 (1.118)     26292  5.00000    4.723
   36 Hexachloroethane                117     4.504    4.504 (1.139)     10779  5.00000    4.891
   37 N-Nitrosodinpropylamine          70     4.442    4.442 (1.123)     16719  5.00000    4.290
   42 Nitrobenzene                     77     4.597    4.597 (0.855)     24875  5.00000    4.659
   44 Isophorone                       82     4.856    4.856 (0.904)     48024  5.00000    4.744
   45 2-Nitrophenol                   139     4.960    4.960 (0.923)     14088  5.00000    4.833
   46 2,4-Dimethyphenol               107     5.012    5.012 (0.933)     26089  5.00000    4.820
```

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                                                                                      AMOUNTS
                                         QUANT SIG                                   CAL-AMT     ON-COL
Compounds                                  MASS        RT     EXP RT   REL RT  RESPONSE  (   NG)     (   NG)
==========================                 ====      ====  ======== ======== ========  =======     =======
   47 Bis(2-chloroethoxy)methane            93       5.126    5.126 (0.954)     31152   5.00000       5.169
   49 2,4-Dichlorophenol                   162       5.229    5.229 (0.973)     19256   5.00000       4.834
   50 Benzoic Acid                         122       5.084    5.115 (0.946)     12679   5.00000       4.202
   51 1,2,4-Trichlorobenzene               180       5.322    5.322 (0.990)     22282   5.00000       5.160
   52 Naphthalene                          128       5.395    5.395 (1.004)     83236   5.00000       4.937
   54 4-Chloroaniline                      127       5.488    5.488 (1.021)     30853   5.00000       4.652
   57 Hexachlorobutadiene                  225       5.613    5.613 (1.044)     10823   5.00000       5.267
   60 4-Chloro-3-Methylphenol              107       6.069    6.069 (1.129)     22205   5.00000       4.844
   63 2-Methylnaphthalene                  142       6.203    6.203 (1.154)     51849   5.00000       5.040
   66 Hexachlorocyclopentadiene            237       6.483    6.483 (0.868)     10813   5.00000       4.405
   69 2,4,6-Trichlorophenol                196       6.576    6.576 (0.881)     12546   5.00000       5.149
   70 2,4,5-Trichlorphenol                 196       6.628    6.628 (0.888)     12400   5.00000       4.633
   71 2-Chloronaphthalene                  162       6.784    6.784 (0.908)     45713   5.00000       5.066
   73 2-Nitroaniline                        65       6.949    6.949 (0.931)     12703   5.00000       4.204
   76 Dimethylphthalate                    163       7.219    7.229 (0.967)     49639   5.00000       4.763
   77 Acenaphthylene                       152       7.281    7.281 (0.975)     75041   5.00000       4.757
   79 2,6-Dinitrotoluene                   165       7.468    7.302 (1.000)     39415   5.00000       16.89(Q)
   80 3-Nitroaniline                       138       7.447    7.447 (0.997)     14226   5.00000       4.597(Q)
   81 Acenaphthene                         153       7.509    7.509 (1.006)     50639   5.00000       5.038
   82 2,4-Dinitrophenol                    184       7.571    7.571 (1.014)      4083   5.00000       5.740(q)
   83 Dibenzofuran                         168       7.696    7.706 (1.031)     63477   5.00000       4.780
   84 4-Nitrophenol                        109       7.675    7.675 (1.028)      5114   5.00000       3.785(Q)
   86 2,4-Dinitrotoluene                   165       7.768    7.768 (1.040)     13823   5.00000       4.422(q)
   91 Fluorene                             166       8.131    8.131 (1.089)     54136   5.00000       4.976
   92 Diethylphthalate                     149       8.100    8.100 (1.085)     49177   5.00000       4.514
   93 4-Chlorophenyl-phenylether           204       8.152    8.152 (1.092)     22112   5.00000       4.930
   94 4-Nitroaniline                       138       8.214    8.214 (1.100)     13415   5.00000       4.435
   97 4,6-Dinitro-2-methylphenol           198       8.276    8.276 (0.880)      5780   5.00000       8.076(q)
   98 N-Nitrosodiphenylamine               169       8.317    8.317 (0.884)     41998   5.86000       5.430
  100 Azobenzene                            77       8.348    8.348 (0.888)     48101   5.00000       4.470
  101 4-Bromophenyl-phenylether            248       8.794    8.794 (0.935)     11766   5.00000       4.905
  108 Hexachlorobenzene                    284       8.981    8.981 (0.955)     14244   5.00000       5.498
  110 Pentachlorophenol                    266       9.240    9.240 (0.982)      5849   5.00000       3.762
  114 Phenanthrene                         178       9.437    9.437 (1.003)     80873   5.00000       5.224
  115 Anthracene                           178       9.499    9.499 (1.010)     77577   5.00000       4.979
  118 Carbazole                            167       9.768    9.768 (1.039)     70241   5.00000       4.847
  120 Di-n-Butylphthalate                  149      10.463   10.463 (1.112)     79722   5.00000       4.549
  126 Fluoranthene                         202      11.302   11.302 (1.202)     64427   5.00000       4.624
  127 Benzidine                            184      11.571   11.571 (0.840)     44267   5.00000       4.759
  128 Pyrene                               202      11.665   11.665 (0.847)     71230   5.00000       5.029
  134 3,3'-dimethylbenzidine               212      12.867   12.867 (0.934)     37074   5.00000       4.644
  136 Butylbenzylphthalate                 149      12.991   12.991 (0.943)     36798   5.00000       5.084
  138 Benzo(a)Anthracene                   228      13.758   13.758 (0.998)     62384   5.00000       5.220
  139 Chrysene                             228      13.820   13.831 (1.003)     59618   5.00000       4.801
  140 3,3'-Dichlorobenzidine               252      13.799   13.799 (1.002)     22168   5.00000       5.069
  141 bis(2-ethylhexyl)Phthalate           149      14.110   14.110 (1.024)     51997   5.00000       5.218
  142 Di-n-octylphthalate                  149      15.157   15.167 (1.100)     76353   5.00000       4.792
  144 Benzo(b)fluoranthene                 252      15.572   15.582 (0.963)     45075   5.00000       4.270(Q)
  145 Benzo(k)fluoranthene                 252      15.613   15.623 (0.966)     68403   5.00000       5.546(q)
  147 Benzo(e)pyrene                       252      15.996   16.007 (0.990)     50295   5.00000       4.807
  148 Benzo(a)pyrene                       252      16.069   16.079 (0.994)     54694   5.00000       4.761
  151 Indeno(1,2,3-cd)pyrene               276      17.789   17.800 (1.101)     41053   5.00000       4.039
  152 Dibenzo(a,h)anthracene               278      17.841   17.841 (1.104)     49018   5.00000       4.706
  153 Benzo(g,h,i)perylene                 276      18.224   18.235 (1.128)     53428   5.00000       4.784
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```
Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002A.D                    Page 3
Report Date: 02-Oct-2010 16:57

                                                                                    AMOUNTS
                                          QUANT SIG                           CAL-AMT    ON-COL
Compounds                                   MASS      RT   EXP RT  REL RT  RESPONSE  (   NG)    (   NG)
==========================                  ====     ====  ======== ======== ========  =======    =======
M 162 benzo b,k Fluoranthene Totals          252                               113478  5.00000      4.958(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
q - Qualifier signal exceeded ratio warning limit.
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Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002A.D
Report Date: 03-Oct-2010 11:11

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002A.D
Lab Smp Id: HSL_005 ug/ml CS-1
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0307;0;8270F.M

Calibration Date: 02-OCT-2010
Calibration Time: 13:44
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	141539	15.42
2 Naphthalene-d8	530514	265257	1061028	605687	14.17
3 Acenaphthene-d10	282538	141269	565076	321839	13.91
4 Phenanthrene-d10	462722	231361	925444	496356	7.27
5 Chrysene-d12	435850	217925	871700	453007	3.94
6 Perylene-d12	422284	211142	844568	445119	5.41

COMPOUND	STANDARD	RT LIMIT LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16	15.66	16.66	16.16	0.00

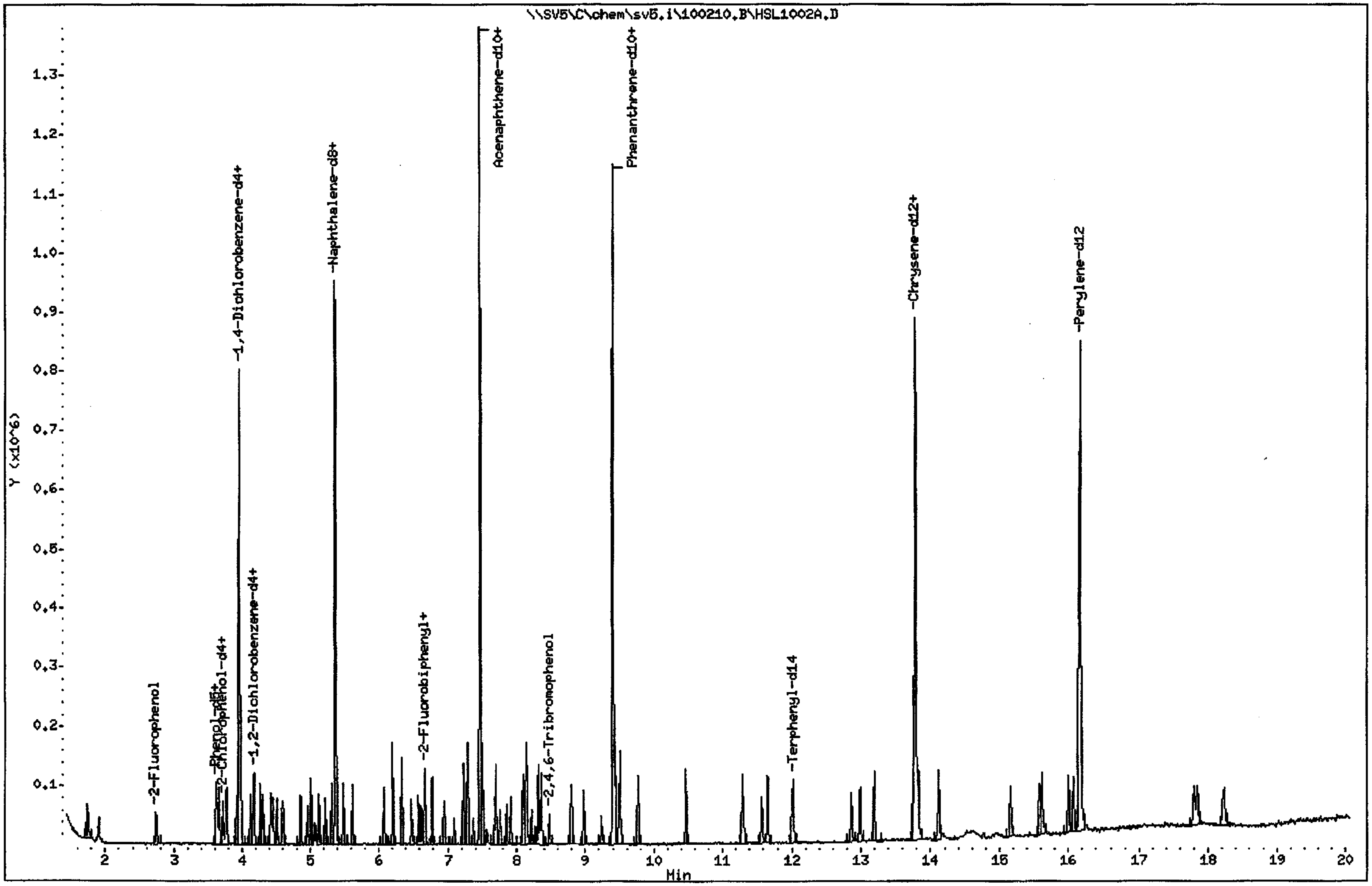
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002A.D
Date : 02-OCT-2010 12:27
Client ID: 8270F.M
Sample Info: HSL_005 ug/ml CS-1;1;;1;;;;4

Column phase:

Instrument: sv5.i

Operator: KT
Column diameter: 2.00



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                           TestAmerica West Sacramento

                                      Method 8270C
Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002B.D
Lab Smp Id: HSL_010 ug/ml CS-2            Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 12:53
Operator  : KT                            Inst ID: sv5.i
Smp Info  : HSL_010 ug/ml CS-2;1;;2;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0308;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\100210.B\8270f.m
Meth Date : 03-Oct-2010 11:09 onishim     Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19             Cal File: AP90817D.D
Als bottle: 2                             Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon                        Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SACP307UM


                                                                                       AMOUNTS
                                      QUANT SIG                                     CAL-AMT   ON-COL
Compounds                               MASS      RT     EXP RT   REL RT  RESPONSE  (  NG)    (  NG)
============================          ====     ====  ======== ======== ========  =======   =======
*   1 1,4-Dichlorobenzene-d4           152     3.955   3.955 (1.000)    116839   40.0000          (Q)
*   2 Naphthalene-d8                   136     5.364   5.374 (1.000)    493196   40.0000
*   3 Acenaphthene-d10                 164     7.468   7.468 (1.000)    272639   40.0000
*   4 Phenanthrene-d10                 188     9.406   9.405 (1.000)    428440   40.0000
*   5 Chrysene-d12                     240    13.779  13.779 (1.000)    412260   40.0000
*   6 Perylene-d12                     264    16.162  16.162 (1.000)    419005   40.0000
$   7 2-Fluorophenol                   112     2.732   2.732 (0.691)     38100   10.0000    9.251
$   8 Phenol-d5                         99     3.613   3.613 (0.914)     48878   10.0000    9.438
$   9 2-Chlorophenol-d4                132     3.747   3.758 (0.948)     45430   10.0000    9.989
$  10 1,2-Dichlorobenzene-d4           152     4.151   4.162 (1.050)     28658   10.0000    9.959
$  11 Nitrobenzene-d5                   82     4.576   4.576 (0.853)     42237   10.0000    10.11(QM)
$  12 2-Fluorobiphenyl                 172     6.680   6.680 (0.895)     85886   10.0000    9.779
$  13 2,4,6-Tribromophenol             330     8.473   8.473 (1.135)     11265   10.0000    9.508
$  14 Terphenyl-d14                    244    12.017  12.017 (0.872)     81026   10.0000    9.978
   15 N-Nitrosodimethylamine            74     1.706   1.706 (0.431)     25783   10.0000    9.578(q)
   16 Pyridine                          79     1.737   1.726 (0.439)     40141   10.0000    8.917(Q)
   23 Aniline                           93     3.654   3.654 (0.924)     63074   10.0000    9.568(q)
   24 Phenol                            94     3.623   3.623 (0.916)     57313   10.0000    9.631(Q)
   26 Bis(2-chloroethyl)ether           93     3.716   3.716 (0.940)     40383   10.0000    9.677
   27 2-Chlorophenol                   128     3.768   3.768 (0.953)     45449   10.0000    9.950
   28 1,3-Dichlorobenzene              146     3.913   3.923 (0.990)     49415   10.0000    9.932
   29 1,4-Dichlorobenzene              146     3.975   3.975 (1.005)     52537   10.0000    10.10
   30 Benzyl Alcohol                   108     4.120   4.120 (1.042)     30277   10.0000    9.862
   31 1,2-Dichlorobenzene              146     4.172   4.172 (1.055)     47666   10.0000    9.966
   32 2-Methylphenol                   108     4.255   4.255 (1.076)     40581   10.0000    9.714
   33 2,2'-oxybis(1-Chloropropane)      45     4.297   4.297 (1.086)     64869   10.0000    9.768
   34 4-Methylphenol                   108     4.421   4.421 (1.118)     43497   10.0000    9.803
   36 Hexachloroethane                 117     4.504   4.504 (1.139)     17770   10.0000    10.03
   37 N-Nitrosodinpropylamine           70     4.442   4.442 (1.123)     28335   10.0000    9.587
   42 Nitrobenzene                      77     4.597   4.597 (0.857)     40198   10.0000    9.845
   44 Isophorone                        82     4.856   4.856 (0.905)     76804   10.0000    9.782
   45 2-Nitrophenol                    139     4.960   4.960 (0.925)     23221   10.0000    9.585
   46 2,4-Dimethyphenol                107     5.012   5.012 (0.934)     42128   10.0000    9.787
```

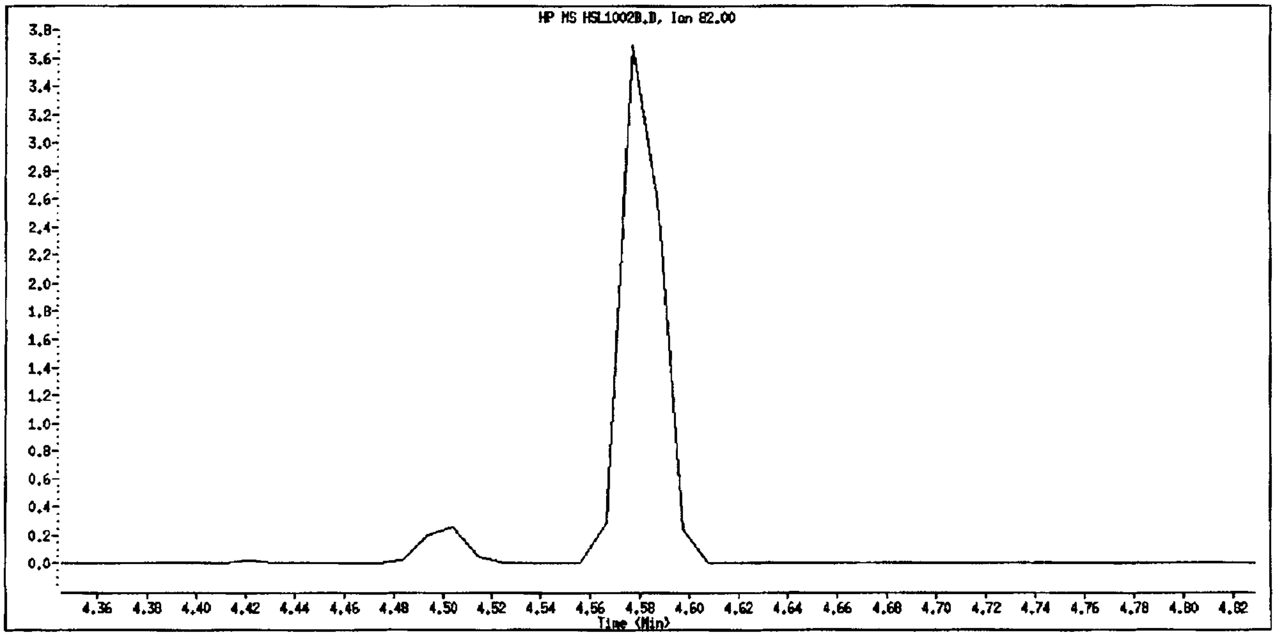
```
                                                                                    AMOUNTS
                                     QUANT SIG                                  CAL-AMT    ON-COL
Compounds                              MASS       RT    EXP RT   REL RT  RESPONSE  (   NG)   (   NG)
==========================             ====      ==== ======== ======== ========  =======   =======
   47 Bis(2-chloroethoxy)methane         93      5.126   5.126 (0.956)     46230   10.0000     9.636
   49 2,4-Dichlorophenol                162      5.229   5.229 (0.975)     32450   10.0000     9.744
   50 Benzoic Acid                      122      5.084   5.115 (0.948)     20056   10.0000     8.418
   51 1,2,4-Trichlorobenzene            180      5.323   5.322 (0.992)     35544   10.0000     9.857
   52 Naphthalene                       128      5.395   5.395 (1.006)    138665   10.0000     10.18
   54 4-Chloroaniline                   127      5.488   5.488 (1.023)     52444   10.0000     9.826
   57 Hexachlorobutadiene               225      5.613   5.613 (1.046)     17030   10.0000     9.650
   60 4-Chloro-3-Methylphenol           107      6.069   6.069 (1.131)     35592   10.0000     9.570
   63 2-Methylnaphthalene               142      6.203   6.203 (1.156)     83922   10.0000     9.811
   66 Hexachlorocyclopentadiene         237      6.483   6.483 (0.868)     18919   10.0000     9.300
   69 2,4,6-Trichlorophenol             196      6.576   6.576 (0.881)     20325   10.0000     9.344
   70 2,4,5-Trichlorphenol              196      6.618   6.628 (0.886)     22419   10.0000     9.567
   71 2-Chloronaphthalene               162      6.773   6.784 (0.907)     74574   10.0000     9.719
   73 2-Nitroaniline                     65      6.950   6.949 (0.931)     21647   10.0000     9.308
   76 Dimethylphthalate                 163      7.219   7.229 (0.967)     85330   10.0000     9.659
   77 Acenaphthylene                    152      7.281   7.281 (0.975)    130392   10.0000     9.758
   79 2,6-Dinitrotoluene                165      7.291   7.302 (0.976)     18661   10.0000     9.067(QM)
   80 3-Nitroaniline                    138      7.447   7.447 (0.997)     23598   10.0000     9.186(q)
   81 Acenaphthene                      153      7.509   7.509 (1.006)     83474   10.0000     9.814
   82 2,4-Dinitrophenol                 184      7.571   7.572 (1.014)      7537   10.0000     10.11(q)
   83 Dibenzofuran                      168      7.696   7.706 (1.031)    110503   10.0000     9.789
   84 4-Nitrophenol                     109      7.675   7.675 (1.028)      9643   10.0000     9.049(Q)
   86 2,4-Dinitrotoluene                165      7.768   7.768 (1.040)     24530   10.0000     9.080
   91 Fluorene                          166      8.131   8.131 (1.089)     91225   10.0000     9.759
   92 Diethylphthalate                  149      8.100   8.100 (1.085)     88532   10.0000     9.788
   93 4-Chlorophenyl-phenylether        204      8.152   8.152 (1.092)     38113   10.0000     9.807
   94 4-Nitroaniline                    138      8.214   8.214 (1.100)     23002   10.0000     9.033
   97 4,6-Dinitro-2-methylphenol        198      8.276   8.276 (0.880)     11282   10.0000     11.10
   98 N-Nitrosodiphenylamine            169      8.317   8.317 (0.884)     74860   11.7000     11.53
  100 Azobenzene                         77      8.349   8.348 (0.888)     82437   10.0000     9.784
  101 4-Bromophenyl-phenylether         248      8.794   8.794 (0.935)     19823   10.0000     9.478
  108 Hexachlorobenzene                 284      8.981   8.981 (0.955)     23622   10.0000     10.11
  110 Pentachlorophenol                 266      9.240   9.240 (0.982)     10551   10.0000     10.90
  114 Phenanthrene                      178      9.437   9.437 (1.003)    134966   10.0000     9.995
  115 Anthracene                        178      9.499   9.499 (1.010)    130416   10.0000     9.667
  118 Carbazole                         167      9.768   9.768 (1.039)    120549   10.0000     9.782
  120 Di-n-Butylphthalate               149     10.463  10.463 (1.112)    141693   10.0000     9.555
  126 Fluoranthene                      202     11.302  11.302 (1.202)    115262   10.0000     9.526
  127 Benzidine                         184     11.571  11.571 (0.840)     78774   10.0000     9.428
  128 Pyrene                            202     11.654  11.665 (0.846)    127577   10.0000     9.901
  134 3,3'-dimethylbenzidine            212     12.867  12.867 (0.934)     66361   10.0000     8.997
  136 Butylbenzylphthalate              149     12.991  12.991 (0.943)     62032   10.0000     9.605
  138 Benzo(a)Anthracene                228     13.748  13.758 (0.998)    102788   10.0000     9.360
  139 Chrysene                          228     13.820  13.831 (1.003)    113552   10.0000     10.11
  140 3,3'-Dichlorobenzidine            252     13.799  13.799 (1.002)     38850   10.0000     9.379
  141 bis(2-ethylhexyl)Phthalate        149     14.110  14.110 (1.024)     83377   10.0000     9.372
  142 Di-n-octylphthalate               149     15.157  15.167 (1.100)    126961   10.0000     8.928
  144 Benzo(b)fluoranthene              252     15.572  15.582 (0.963)     84929   10.0000     8.954(Q)
  145 Benzo(k)fluoranthene              252     15.613  15.623 (0.966)    122065   10.0000     10.02(q)
  147 Benzo(e)pyrene                    252     15.996  16.007 (0.990)     97140   10.0000     9.821
  148 Benzo(a)pyrene                    252     16.069  16.079 (0.994)    102327   10.0000     9.516
  151 Indeno(1,2,3-cd)pyrene            276     17.789  17.800 (1.101)     76748   10.0000     8.824
  152 Dibenzo(a,h)anthracene            278     17.841  17.841 (1.104)     88393   10.0000     9.097
  153 Benzo(g,h,i)perylene              276     18.224  18.235 (1.128)    103135   10.0000     9.804
```

```
                                                                              AMOUNTS
                                          QUANT SIG                                     CAL-AMT   ON-COL
Compounds                                    MASS       RT   EXP RT   REL RT  RESPONSE  (   NG)   (   NG)
============================               ====      ====  ======== ======== ========  =======   =======
M 162 benzo b,k Fluoranthene Totals          252                               206994   10.0000     9.556(A)
```

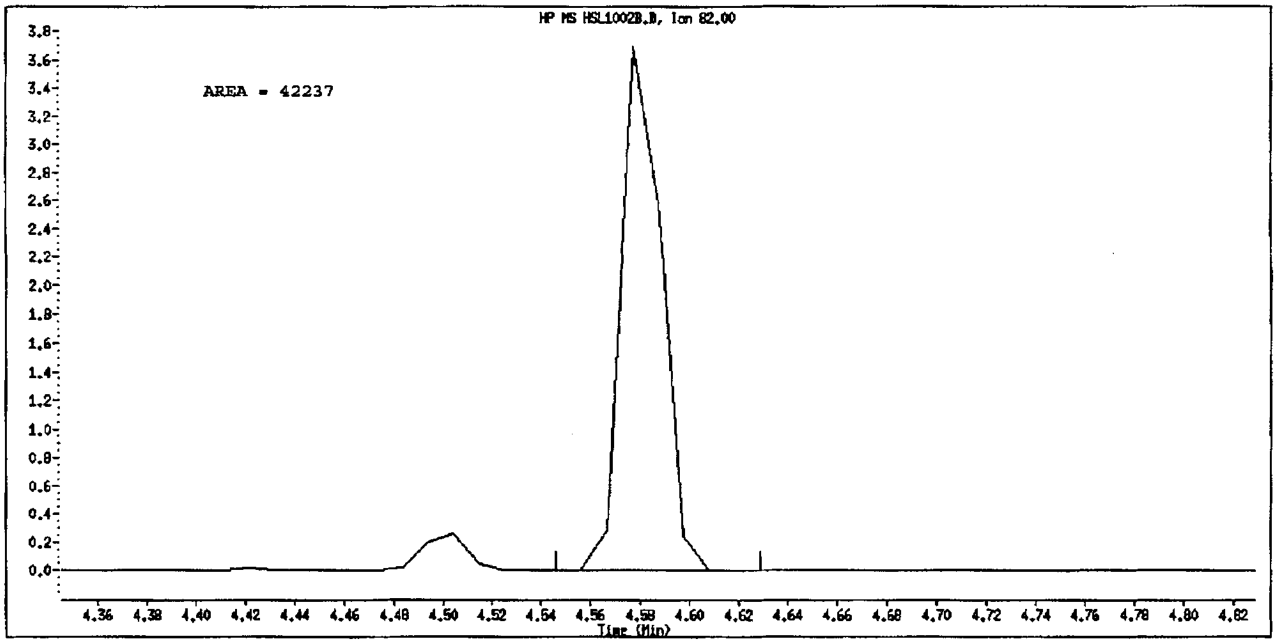
QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
q - Qualifier signal exceeded ratio warning limit.

Data File Name: HSL1002B.D
Inj. Date and Time: 02-OCT-2010 12:53
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Nitrobenzene-d5
CAS #: 4165-60-0
Report Date: 10/03/2010



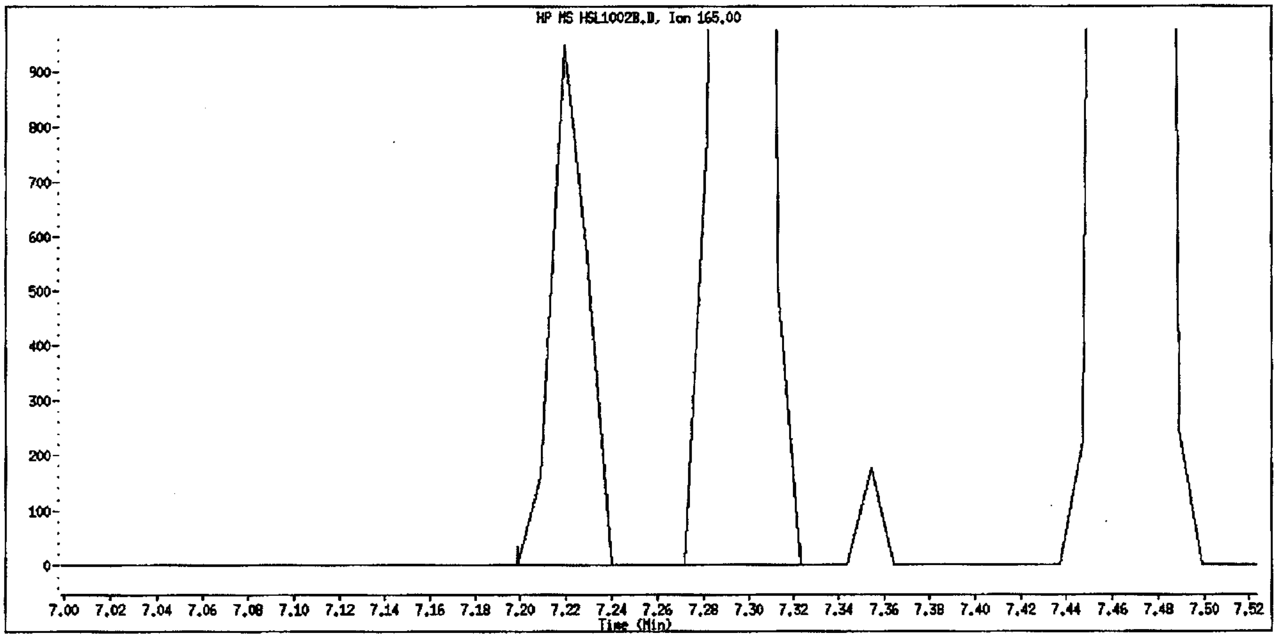
Original Integration



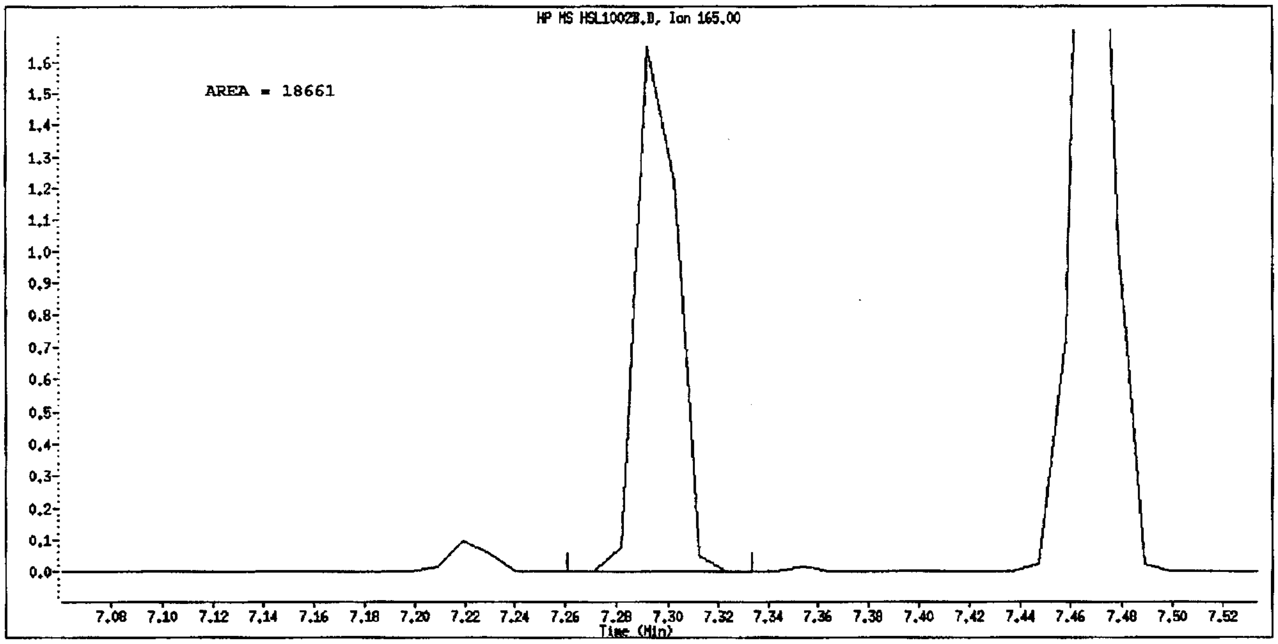
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Peak Not Found

Data File Name: HSL1002B.D
Inj. Date and Time: 02-OCT-2010 12:53
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: 2,6-Dinitrotoluene
CAS #: 606-20-2
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

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Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002B.D                   Page 1
Report Date: 02-Oct-2010 16:57


                         TestAmerica West Sacramento

                                Method 8270C
Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002B.D
Lab Smp Id: HSL_010 ug/ml CS-2          Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 12:53
Operator  : KT                          Inst ID: sv5.i
Smp Info  : HSL_010 ug/ml CS-2;1;;2;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0308;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Meth Date : 02-Oct-2010 16:57 onishim    Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19           Cal File: AP90817D.D
Als bottle: 2                           Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon                      Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SV5


                                                                              AMOUNTS
                                     QUANT SIG                              CAL-AMT    ON-COL
Compounds                              MASS      RT    EXP RT  REL RT   RESPONSE  (  NG)   (  NG)
=========================             ====     ====  =======  =======  ========  =======  =======
*   1 1,4-Dichlorobenzene-d4            152     3.955   3.955 (1.000)    116839  40.0000         (Q)
*   2 Naphthalene-d8                    136     5.364   5.374 (1.000)    493196  40.0000
*   3 Acenaphthene-d10                  164     7.468   7.468 (1.000)    272639  40.0000
*   4 Phenanthrene-d10                  188     9.406   9.405 (1.000)    428440  40.0000
*   5 Chrysene-d12                      240    13.779  13.779 (1.000)    412260  40.0000
*   6 Perylene-d12                      264    16.162  16.162 (1.000)    419005  40.0000
$   7 2-Fluorophenol                    112     2.732   2.732 (0.691)     38100  10.0000    8.835
$   8 Phenol-d5                          99     3.613   3.613 (0.914)     48878  10.0000    8.913
$   9 2-Chlorophenol-d4                 132     3.747   3.758 (0.948)     45430  10.0000    9.716
$  10 1,2-Dichlorobenzene-d4            152     4.151   4.162 (1.050)     28658  10.0000    9.820
$  11 Nitrobenzene-d5                    82        Compound Not Detected.
$  12 2-Fluorobiphenyl                  172     6.680   6.680 (0.895)     85886  10.0000    9.835
$  13 2,4,6-Tribromophenol              330     8.473   8.473 (1.135)     11265  10.0000    10.46
$  14 Terphenyl-d14                     244    12.017  12.017 (0.872)     81026  10.0000    10.08
   15 N-Nitrosodimethylamine             74     1.706   1.706 (0.431)     25783  10.0000    9.059
   16 Pyridine                           79     1.737   1.726 (0.439)     40141  10.0000    8.464
   23 Aniline                            93     3.654   3.654 (0.924)     63074  10.0000    9.172(q)
   24 Phenol                             94     3.623   3.623 (0.916)     57313  10.0000    9.827(Q)
   26 Bis(2-chloroethyl)ether            93     3.716   3.716 (0.940)     40383  10.0000    9.114
   27 2-Chlorophenol                    128     3.768   3.768 (0.953)     45449  10.0000    9.848
   28 1,3-Dichlorobenzene               146     3.913   3.923 (0.990)     49415  10.0000    9.689
   29 1,4-Dichlorobenzene               146     3.975   3.975 (1.005)     52537  10.0000    10.19
   30 Benzyl Alcohol                    108     4.120   4.120 (1.042)     30277  10.0000    9.547
   31 1,2-Dichlorobenzene               146     4.172   4.172 (1.055)     47666  10.0000    9.755
   32 2-Methylphenol                    108     4.255   4.255 (1.076)     40581  10.0000    9.413
   33 2,2'-oxybis(1-Chloropropane)       45     4.297   4.297 (1.086)     64869  10.0000    7.888
   34 4-Methylphenol                    108     4.421   4.421 (1.118)     43497  10.0000    9.466
   36 Hexachloroethane                  117     4.504   4.504 (1.139)     17770  10.0000    9.768
   37 N-Nitrosodinpropylamine            70     4.442   4.442 (1.123)     28335  10.0000    8.809
   42 Nitrobenzene                       77     4.597   4.597 (0.857)     40198  10.0000    9.246
   44 Isophorone                         82     4.856   4.856 (0.905)     76804  10.0000    9.318
   45 2-Nitrophenol                     139     4.960   4.960 (0.925)     23221  10.0000    9.784
   46 2,4-Dimethyphenol                 107     5.012   5.012 (0.934)     42128  10.0000    9.559
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10-3-10

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                                                                                   AMOUNTS
                                        QUANT SIG                             CAL-AMT    ON-COL
Compounds                                 MASS       RT    EXP RT   REL RT  RESPONSE  (   NG)    (   NG)
===========================              ====      ====  ======== ======== ========   =======    =======
   47 Bis(2-chloroethoxy)methane           93      5.126    5.126 (0.956)     46230   10.0000      9.421
   49 2,4-Dichlorophenol                  162      5.229    5.229 (0.975)     32450   10.0000      10.00
   50 Benzoic Acid                        122      5.084    5.115 (0.948)     20056   10.0000      8.164
   51 1,2,4-Trichlorobenzene              180      5.323    5.322 (0.992)     35544   10.0000      10.11
   52 Naphthalene                         128      5.395    5.395 (1.006)    138665   10.0000      10.10
   54 4-Chloroaniline                     127      5.488    5.488 (1.023)     52444   10.0000      9.711
   57 Hexachlorobutadiene                 225      5.613    5.613 (1.046)     17030   10.0000      10.18
   60 4-Chloro-3-Methylphenol             107      6.069    6.069 (1.131)     35592   10.0000      9.536
   63 2-Methylnaphthalene                 142      6.203    6.203 (1.156)     83922   10.0000      10.02
   66 Hexachlorocyclopentadiene           237      6.483    6.483 (0.868)     18919   10.0000      9.098
   69 2,4,6-Trichlorophenol               196      6.576    6.576 (0.881)     20325   10.0000      9.847
   70 2,4,5-Trichlorphenol                196      6.618    6.628 (0.886)     22419   10.0000      9.889
   71 2-Chloronaphthalene                 162      6.773    6.784 (0.907)     74574   10.0000      9.756
   73 2-Nitroaniline                       65      6.950    6.949 (0.931)     21647   10.0000      8.456
   76 Dimethylphthalate                   163      7.219    7.229 (0.967)     85330   10.0000      9.665
   77 Acenaphthylene                      152      7.281    7.281 (0.975)    130392   10.0000      9.758
   79 2,6-Dinitrotoluene                  165      7.219    7.302 (0.967)     19698   10.0000      9.963(Q)
   80 3-Nitroaniline                      138      7.447    7.447 (0.997)     23598   10.0000      9.002(q)
   81 Acenaphthene                        153      7.509    7.509 (1.006)     83474   10.0000      9.804
   82 2,4-Dinitrophenol                   184      7.571    7.571 (1.014)      7537   10.0000      9.147(q)
   83 Dibenzofuran                        168      7.696    7.706 (1.031)    110503   10.0000      9.824
   84 4-Nitrophenol                       109      7.675    7.675 (1.028)      9643   10.0000      8.425(Q)
   86 2,4-Dinitrotoluene                  165      7.768    7.768 (1.040)     24530   10.0000      9.262
   91 Fluorene                            166      8.131    8.131 (1.089)     91225   10.0000      9.898
   92 Diethylphthalate                    149      8.100    8.100 (1.085)     88532   10.0000      9.594
   93 4-Chlorophenyl-phenylether         204      8.152    8.152 (1.092)     38113   10.0000      10.03
   94 4-Nitroaniline                      138      8.214    8.214 (1.100)     23002   10.0000      8.977
   97 4,6-Dinitro-2-methylphenol          198      8.276    8.276 (0.880)     11282   10.0000      11.76
   98 N-Nitrosodiphenylamine              169      8.317    8.317 (0.884)     74860   11.7000      11.21
  100 Azobenzene                           77      8.349    8.348 (0.888)     82437   10.0000      8.875
  101 4-Bromophenyl-phenylether          248      8.794    8.794 (0.935)     19823   10.0000      9.575
  108 Hexachlorobenzene                   284      8.981    8.981 (0.955)     23622   10.0000      10.56
  110 Pentachlorophenol                   266      9.240    9.240 (0.982)     10551   10.0000      7.861
  114 Phenanthrene                        178      9.437    9.437 (1.003)    134966   10.0000      10.10
  115 Anthracene                          178      9.499    9.499 (1.010)    130416   10.0000      9.697
  118 Carbazole                           167      9.768    9.768 (1.039)    120549   10.0000      9.637
  120 Di-n-Butylphthalate                 149     10.463   10.463 (1.112)    141693   10.0000      9.367
  126 Fluoranthene                        202     11.302   11.302 (1.202)    115262   10.0000      9.583
  127 Benzidine                           184     11.571   11.571 (0.840)     78774   10.0000      9.305
  128 Pyrene                              202     11.654   11.665 (0.846)    127577   10.0000      9.897
  134 3,3'-dimethylbenzidine              212     12.867   12.867 (0.934)     66361   10.0000      9.134
  136 Butylbenzylphthalate                149     12.991   12.991 (0.943)     62032   10.0000      9.418
  138 Benzo(a)Anthracene                  228     13.748   13.758 (0.998)    102788   10.0000      9.450
  139 Chrysene                            228     13.820   13.831 (1.003)    113552   10.0000      10.05
  140 3,3'-Dichlorobenzidine              252     13.799   13.799 (1.002)     38850   10.0000      9.762
  141 bis(2-ethylhexyl)Phthalate          149     14.110   14.110 (1.024)     83377   10.0000      9.194
  142 Di-n-octylphthalate                 149     15.157   15.167 (1.100)    126961   10.0000      8.756
  144 Benzo(b)fluoranthene                252     15.572   15.582 (0.963)     84929   10.0000      8.548(Q)
  145 Benzo(k)fluoranthene                252     15.613   15.623 (0.966)    122065   10.0000      10.51(q)
  147 Benzo(e)pyrene                      252     15.996   16.007 (0.990)     97140   10.0000      9.863
  148 Benzo(a)pyrene                      252     16.069   16.079 (0.994)    102327   10.0000      9.463
  151 Indeno(1,2,3-cd)pyrene              276     17.789   17.800 (1.101)     76748   10.0000      8.022
  152 Dibenzo(a,h)anthracene              278     17.841   17.841 (1.104)     88393   10.0000      9.016
  153 Benzo(g,h,i)perylene                276     18.224   18.235 (1.128)    103135   10.0000      9.811
```

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                                                                                    AMOUNTS
                                          QUANT SIG                               CAL-AMT   ON-COL
Compounds                                   MASS       RT   EXP RT   REL RT  RESPONSE  (  NG)    (  NG)
==========================                  ====      ==== ======== ======== ========  =======   =======
M 162 benzo b,k Fluoranthene Totals          252                               206994  10.0000    9.607(A)
```

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QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
q - Qualifier signal exceeded ratio warning limit.
```

Report Date: 03-Oct-2010 11:12

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002B.D
Lab Smp Id: HSL_010 ug/ml CS-2
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0308;0;8270F.M

Calibration Date: 02-OCT-2010
Calibration Time: 13:44
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	116839	-4.72
2 Naphthalene-d8	530514	265257	1061028	493196	-7.03
3 Acenaphthene-d10	282538	141269	565076	272639	-3.50
4 Phenanthrene-d10	462722	231361	925444	428440	-7.41
5 Chrysene-d12	435850	217925	871700	412260	-5.41
6 Perylene-d12	422284	211142	844568	419005	-0.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.36	-0.19
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16	15.66	16.66	16.16	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002B.D

Date : 02-OCT-2010 12:53

Client ID: 8270F.M

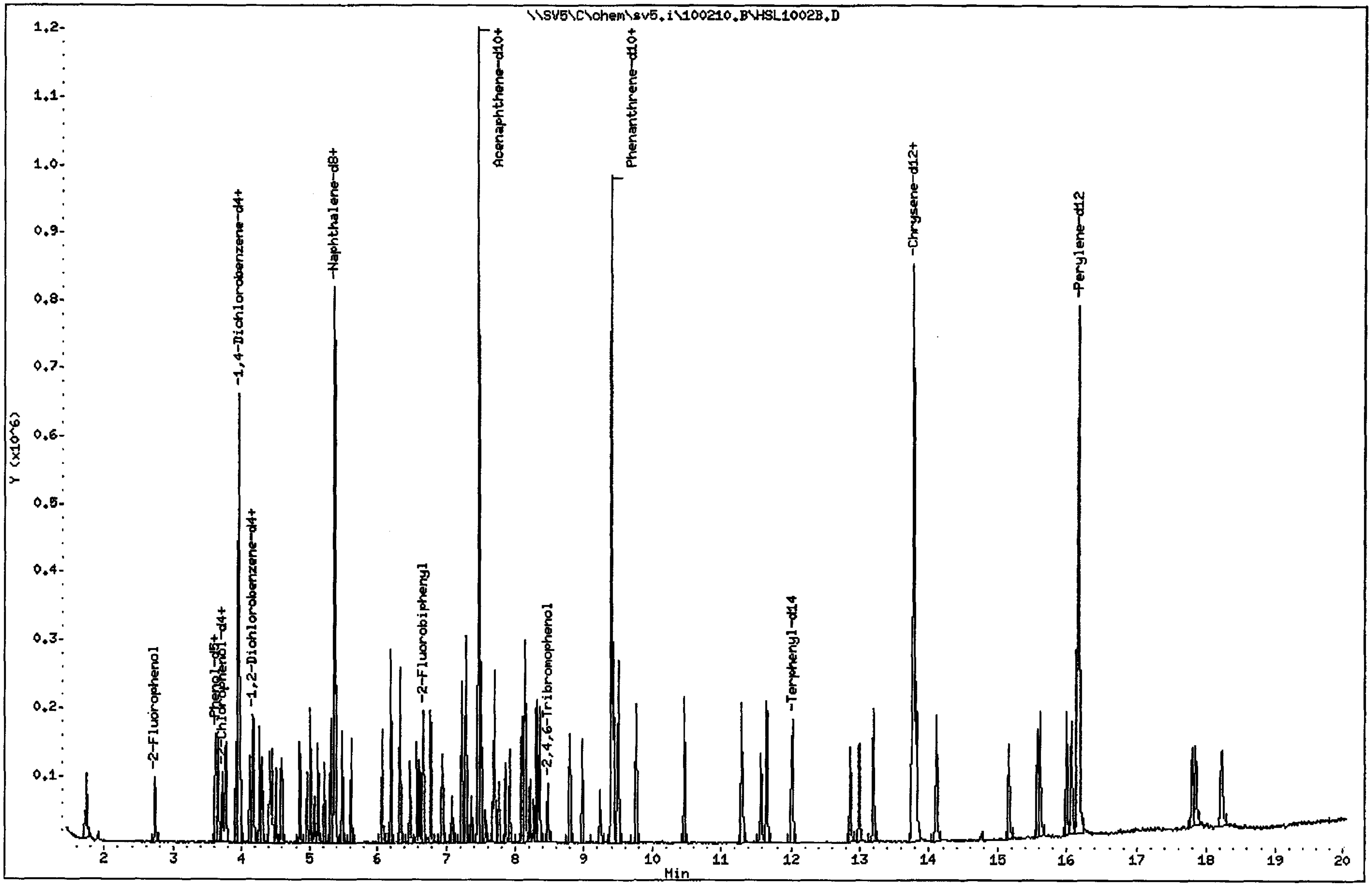
Sample Info: HSL_010 ug/ml CS-2;1;;2;;;;4

Column phase:

Instrument: sv5.i

Operator: KT

Column diameter: 2.00



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                          TestAmerica West Sacramento

                                 Method 8270C
Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002C.D
Lab Smp Id: HSL_020 ug/ml CS-3           Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 13:18
Operator  : KT                           Inst ID: sv5.i
Smp Info  : HSL_020 ug/ml CS-3;1;;3;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0309;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\100210.B\8270f.m
Meth Date : 03-Oct-2010 11:09 onishim    Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19            Cal File: AP90817D.D
Als bottle: 3                            Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon                       Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SACP307UM


                                                                           AMOUNTS
                                 QUANT SIG                                 CAL-AMT    ON-COL
Compounds                          MASS       RT   EXP RT   REL RT  RESPONSE  (   NG)   (   NG)
=========================          ====     ====  =======  =======  ========  =======   =======
*   1 1,4-Dichlorobenzene-d4        152    3.954    3.955  (1.000)    145926  40.0000        (Q)
*   2 Naphthalene-d8                136    5.364    5.374  (1.000)    625682  40.0000
*   3 Acenaphthene-d10              164    7.467    7.468  (1.000)    328608  40.0000
*   4 Phenanthrene-d10              188    9.405    9.405  (1.000)    525834  40.0000
*   5 Chrysene-d12                  240   13.779   13.779  (1.000)    590727  40.0000
*   6 Perylene-d12                  264   16.162   16.162  (1.000)    619266  40.0000
$   7 2-Fluorophenol                112    2.732    2.732  (0.691)    100961  20.0000   19.63
$   8 Phenol-d5                      99    3.612    3.613  (0.914)    127066  20.0000   19.64
$   9 2-Chlorophenol-d4             132    3.747    3.758  (0.948)    112302  20.0000   19.77
$  10 1,2-Dichlorobenzene-d4        152    4.162    4.162  (1.052)     72837  20.0000   20.27(q)
$  11 Nitrobenzene-d5                82    4.576    4.576  (0.853)    103440  20.0000   19.52
$  12 2-Fluorobiphenyl              172    6.680    6.680  (0.895)    209764  20.0000   19.82
$  13 2,4,6-Tribromophenol          330    8.473    8.473  (1.135)     28698  20.0000   20.10
$  14 Terphenyl-d14                 244   12.017   12.017  (0.872)    218324  20.0000   18.76
   15 N-Nitrosodimethylamine         74    1.706    1.706  (0.431)     66431  20.0000   19.76(q)
   16 Pyridine                       79    1.726    1.726  (0.437)    116339  20.0000   20.69(Q)
   23 Aniline                        93    3.654    3.654  (0.924)    160510  20.0000   19.50
   24 Phenol                         94    3.623    3.623  (0.916)    147994  20.0000   19.91
   26 Bis(2-chloroethyl)ether        93    3.716    3.716  (0.940)    101777  20.0000   19.53
   27 2-Chlorophenol                128    3.768    3.768  (0.953)    114481  20.0000   20.07
   28 1,3-Dichlorobenzene           146    3.913    3.923  (0.990)    122398  20.0000   19.70
   29 1,4-Dichlorobenzene           146    3.975    3.975  (1.005)    126965  20.0000   19.54
   30 Benzyl Alcohol                108    4.120    4.120  (1.042)     72366  20.0000   18.87
   31 1,2-Dichlorobenzene           146    4.172    4.172  (1.055)    117073  20.0000   19.60
   32 2-Methylphenol                108    4.255    4.255  (1.076)    101499  20.0000   19.45
   33 2,2'-oxybis(1-Chloropropane)   45    4.296    4.297  (1.086)    166596  20.0000   20.08
   34 4-Methylphenol                108    4.421    4.421  (1.118)    106723  20.0000   19.26
   36 Hexachloroethane              117    4.504    4.504  (1.139)     44196  20.0000   19.98
   37 N-Nitrosodinpropylamine        70    4.441    4.442  (1.123)     73913  20.0000   20.02
   42 Nitrobenzene                   77    4.597    4.597  (0.857)    101809  20.0000   19.65
   44 Isophorone                     82    4.856    4.856  (0.905)    191333  20.0000   19.21
   45 2-Nitrophenol                 139    4.960    4.960  (0.925)     58938  20.0000   19.18
   46 2,4-Dimethyphenol             107    5.011    5.012  (0.934)    107325  20.0000   19.65
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10-3-10

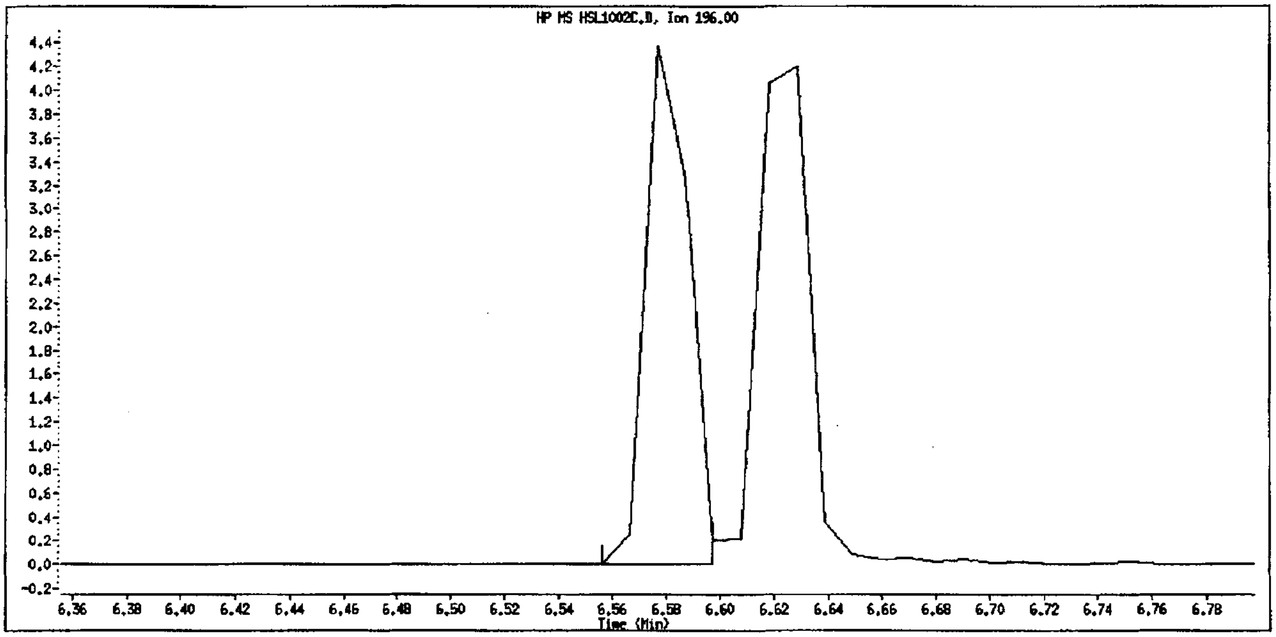
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
47 Bis(2-chloroethoxy)methane	93	5.125	5.126	(0.956)	120646	20.0000	19.82
49 2,4-Dichlorophenol	162	5.229	5.229	(0.975)	84525	20.0000	20.01
50 Benzoic Acid	122	5.094	5.115	(0.950)	54506	20.0000	18.03
51 1,2,4-Trichlorobenzene	180	5.322	5.322	(0.992)	89082	20.0000	19.47
52 Naphthalene	128	5.395	5.395	(1.006)	336100	20.0000	19.46
54 4-Chloroaniline	127	5.488	5.488	(1.023)	135348	20.0000	19.99
57 Hexachlorobutadiene	225	5.613	5.613	(1.046)	45138	20.0000	20.16
60 4-Chloro-3-Methylphenol	107	6.068	6.069	(1.131)	90970	20.0000	19.28
63 2-Methylnaphthalene	142	6.203	6.203	(1.156)	212981	20.0000	19.62
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.868)	47478	20.0000	19.36
69 2,4,6-Trichlorophenol	196	6.576	6.576	(0.881)	49658	20.0000	18.94(Q)
70 2,4,5-Trichlorphenol	196	6.628	6.628	(0.888)	55529	20.0000	19.66(QM)
71 2-Chloronaphthalene	162	6.784	6.784	(0.908)	180754	20.0000	19.54
73 2-Nitroaniline	65	6.949	6.949	(0.931)	54872	20.0000	19.58
76 Dimethylphthalate	163	7.219	7.229	(0.967)	213272	20.0000	20.03
77 Acenaphthylene	152	7.281	7.281	(0.975)	315165	20.0000	19.57
79 2,6-Dinitrotoluene	165	7.291	7.302	(0.976)	49111	20.0000	19.80(QM)
80 3-Nitroaniline	138	7.447	7.447	(0.997)	59114	20.0000	19.09
81 Acenaphthene	153	7.509	7.509	(1.006)	208228	20.0000	20.31
82 2,4-Dinitrophenol	184	7.571	7.572	(1.014)	23799	20.0000	19.52
83 Dibenzofuran	168	7.695	7.706	(1.031)	271431	20.0000	19.95
84 4-Nitrophenol	109	7.675	7.675	(1.028)	25164	20.0000	19.59(Q)
86 2,4-Dinitrotoluene	165	7.768	7.768	(1.040)	63223	20.0000	19.42
91 Fluorene	166	8.131	8.131	(1.089)	220647	20.0000	19.58
92 Diethylphthalate	149	8.100	8.100	(1.085)	216140	20.0000	19.83
93 4-Chlorophenyl-phenylether	204	8.151	8.152	(1.092)	93468	20.0000	19.95
94 4-Nitroaniline	138	8.214	8.214	(1.100)	61333	20.0000	19.98
97 4,6-Dinitro-2-methylphenol	198	8.276	8.276	(0.880)	32982	20.0000	20.44
98 N-Nitrosodiphenylamine	169	8.317	8.317	(0.884)	186206	23.4000	23.36
100 Azobenzene	77	8.348	8.348	(0.888)	203290	20.0000	19.66
101 4-Bromophenyl-phenylether	248	8.794	8.794	(0.935)	50693	20.0000	19.75
108 Hexachlorobenzene	284	8.980	8.981	(0.955)	54528	20.0000	19.02
110 Pentachlorophenol	266	9.240	9.240	(0.982)	30451	20.0000	20.33
114 Phenanthrene	178	9.436	9.437	(1.003)	329718	20.0000	19.89
115 Anthracene	178	9.499	9.499	(1.010)	326558	20.0000	19.72
118 Carbazole	167	9.768	9.768	(1.039)	298921	20.0000	19.76
120 Di-n-Butylphthalate	149	10.462	10.463	(1.112)	358075	20.0000	19.68
126 Fluoranthene	202	11.302	11.302	(1.202)	308182	20.0000	20.75
127 Benzidine	184	11.571	11.571	(0.840)	222260	20.0000	18.56
128 Pyrene	202	11.665	11.665	(0.847)	345805	20.0000	18.73
134 3,3'-dimethylbenzidine	212	12.867	12.867	(0.934)	198960	20.0000	18.82
136 Butylbenzylphthalate	149	12.991	12.991	(0.943)	174685	20.0000	18.88
138 Benzo(a)Anthracene	228	13.758	13.758	(0.998)	304948	20.0000	19.38
139 Chrysene	228	13.820	13.831	(1.003)	314030	20.0000	19.51
140 3,3'-Dichlorobenzidine	252	13.799	13.799	(1.002)	115458	20.0000	19.45
141 bis(2-ethylhexyl)Phthalate	149	14.110	14.110	(1.024)	248201	20.0000	19.47
142 Di-n-octylphthalate	149	15.157	15.167	(1.100)	400592	20.0000	19.66
144 Benzo(b)fluoranthene	252	15.582	15.582	(0.964)	256213	20.0000	18.28(Q)
145 Benzo(k)fluoranthene	252	15.613	15.623	(0.966)	371629	20.0000	20.65(q)
147 Benzo(e)pyrene	252	15.996	16.007	(0.990)	281015	20.0000	19.22
148 Benzo(a)pyrene	252	16.069	16.079	(0.994)	307781	20.0000	19.37
151 Indeno(1,2,3-cd)pyrene	276	17.789	17.800	(1.101)	228110	20.0000	17.74
152 Dibenzo(a,h)anthracene	278	17.841	17.841	(1.104)	270172	20.0000	18.81
153 Benzo(g,h,i)perylene	276	18.224	18.235	(1.128)	301520	20.0000	19.39

```
                                                                                        AMOUNTS
                                          QUANT SIG                                 CAL-AMT    ON-COL
Compounds                                   MASS        RT   EXP RT   REL RT  RESPONSE  (   NG)    (   NG)
==========================                  ====       ====  ======== ======== ========  =======    =======
M 162 benzo b,k Fluoranthene Totals          252                                627842  20.0000     19.61(A)
```

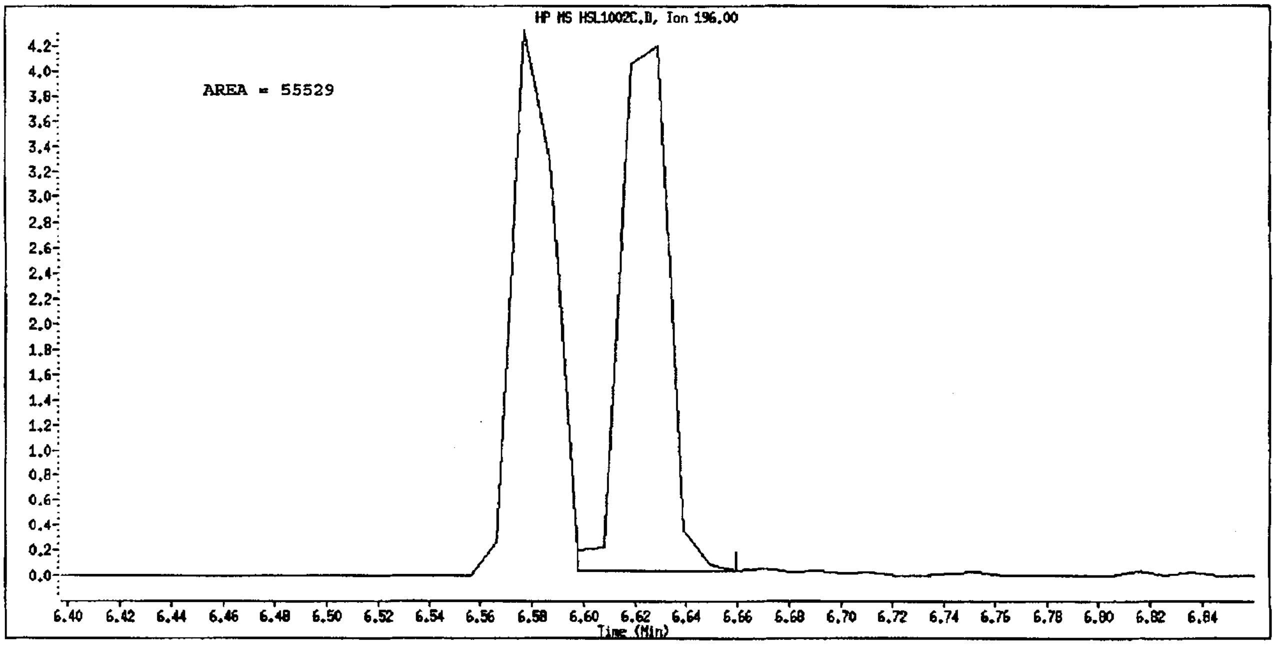
QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
q - Qualifier signal exceeded ratio warning limit.

Data File Name: HSL1002C.D
Inj. Date and Time: 02-OCT-2010 13:18
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: 2,4,5-Trichlorphenol
CAS #: 95-95-4
Report Date: 10/03/2010



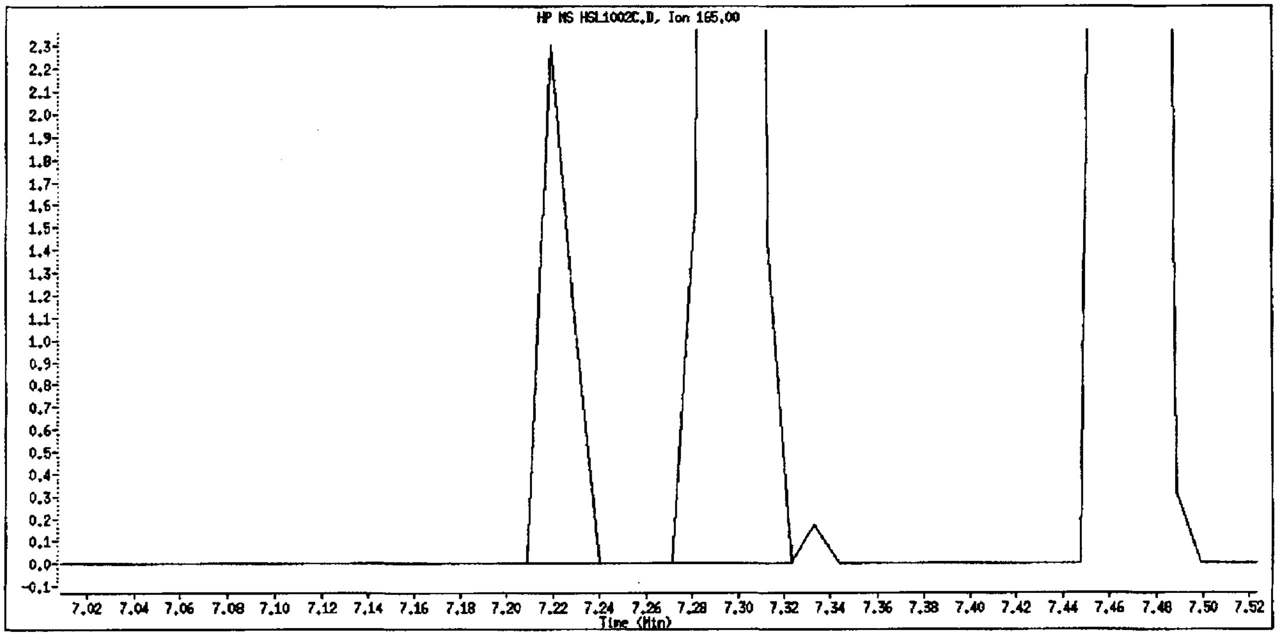
Original Integration



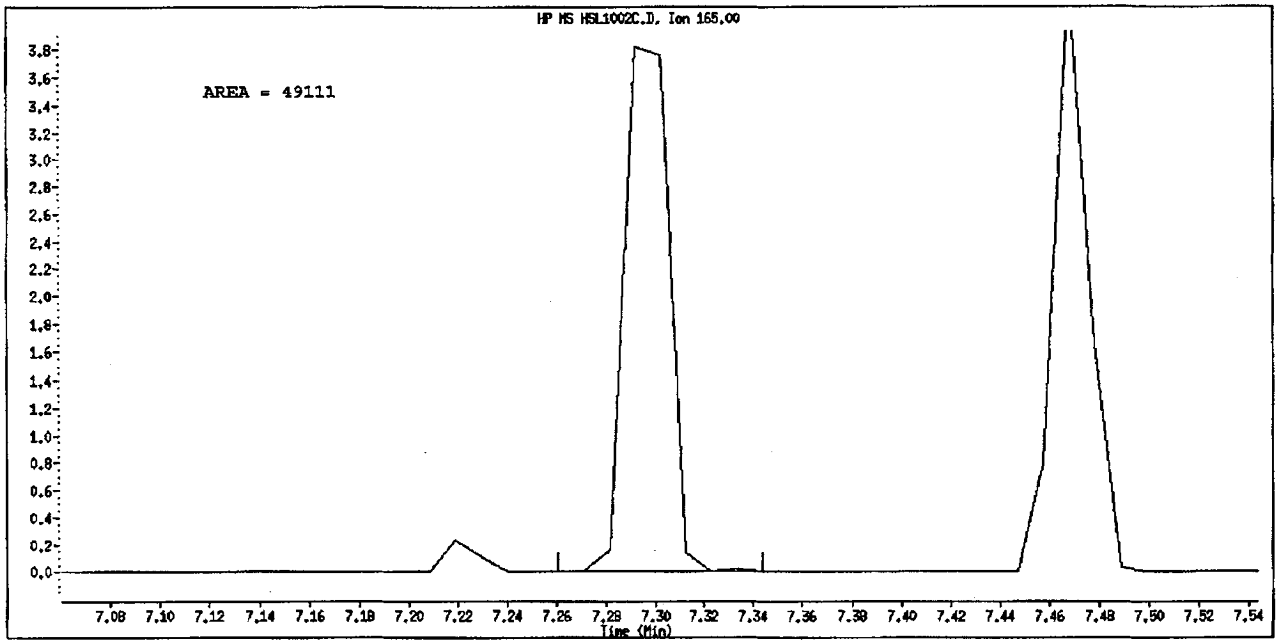
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Wrong Peak

Data File Name: HSL1002C.D
Inj. Date and Time: 02-OCT-2010 13:18
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: 2,6-Dinitrotoluene
CAS #: 606-20-2
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

```
Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002C.D                   Page 1
Report Date: 02-Oct-2010 16:57


                              TestAmerica West Sacramento

                                     Method 8270C
Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002C.D
Lab Smp Id: HSL_020 ug/ml CS-3           Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 13:18
Operator  : KT                           Inst ID: sv5.i
Smp Info  : HSL_020 ug/ml CS-3;1;;3;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0309;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Meth Date : 02-Oct-2010 16:57 onishim    Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19            Cal File: AP90817D.D
Als bottle: 3                            Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon                       Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SV5


                                                                                   AMOUNTS
                                      QUANT SIG                                 CAL-AMT    ON-COL
Compounds                               MASS       RT    EXP RT   REL RT  RESPONSE  (   NG)    (   NG)
==========================             ====     ====  ======== ======== ========  =======    =======
*   1 1,4-Dichlorobenzene-d4            152     3.954    3.955 (1.000)    145926   40.0000          (Q)
*   2 Naphthalene-d8                    136     5.364    5.374 (1.000)    625682   40.0000
*   3 Acenaphthene-d10                  164     7.467    7.468 (1.000)    328608   40.0000
*   4 Phenanthrene-d10                  188     9.405    9.405 (1.000)    525834   40.0000
*   5 Chrysene-d12                      240    13.779   13.779 (1.000)    590727   40.0000
*   6 Perylene-d12                      264    16.162   16.162 (1.000)    619266   40.0000
$   7 2-Fluorophenol                    112     2.732    2.732 (0.691)    100961   20.0000     18.75
$   8 Phenol-d5                          99     3.612    3.613 (0.914)    127066   20.0000     18.55
$   9 2-Chlorophenol-d4                 132     3.747    3.758 (0.948)    112302   20.0000     19.23
$  10 1,2-Dichlorobenzene-d4            152     4.162    4.162 (1.052)     72837   20.0000     19.98(q)
$  11 Nitrobenzene-d5                    82     4.576    4.576 (0.853)    103440   20.0000     18.64
$  12 2-Fluorobiphenyl                  172     6.680    6.680 (0.895)    209764   20.0000     19.93
$  13 2,4,6-Tribromophenol              330     8.473    8.473 (1.135)     28698   20.0000     22.12
$  14 Terphenyl-d14                     244    12.017   12.017 (0.872)    218324   20.0000     18.95
   15 N-Nitrosodimethylamine             74     1.706    1.706 (0.431)     66431   20.0000     18.69
   16 Pyridine                           79     1.726    1.726 (0.437)    116339   20.0000     19.64
   23 Aniline                            93     3.654    3.654 (0.924)    160510   20.0000     18.69
   24 Phenol                             94     3.623    3.623 (0.916)    147994   20.0000     20.32
   26 Bis(2-chloroethyl)ether            93     3.716    3.716 (0.940)    101777   20.0000     18.39
   27 2-Chlorophenol                    128     3.768    3.768 (0.953)    114481   20.0000     19.86
   28 1,3-Dichlorobenzene               146     3.913    3.923 (0.990)    122398   20.0000     19.22
   29 1,4-Dichlorobenzene               146     3.975    3.975 (1.005)    126965   20.0000     19.72
   30 Benzyl Alcohol                    108     4.120    4.120 (1.042)     72366   20.0000     18.27
   31 1,2-Dichlorobenzene               146     4.172    4.172 (1.055)    117073   20.0000     19.18
   32 2-Methylphenol                    108     4.255    4.255 (1.076)    101499   20.0000     18.85
   33 2,2'-oxybis(1-Chloropropane)       45     4.296    4.297 (1.086)    166596   20.0000     16.22
   34 4-Methylphenol                    108     4.421    4.421 (1.118)    106723   20.0000     18.60
   36 Hexachloroethane                  117     4.504    4.504 (1.139)     44196   20.0000     19.45
   37 N-Nitrosodinpropylamine            70     4.441    4.442 (1.123)     73913   20.0000     18.40
   42 Nitrobenzene                       77     4.597    4.597 (0.857)    101809   20.0000     18.46
   44 Isophorone                         82     4.856    4.856 (0.905)    191333   20.0000     18.30
   45 2-Nitrophenol                     139     4.960    4.960 (0.925)     58938   20.0000     19.57
   46 2,4-Dimethyphenol                 107     5.011    5.012 (0.934)    107325   20.0000     19.20
```

```
                                                                             AMOUNTS
                                      QUANT SIG                             CAL-AMT   ON-COL
Compounds                               MASS       RT    EXP RT   REL RT  RESPONSE  (   NG)  (   NG)
==========================              ====     ====  ======== ======== ========  =======   =======
  47 Bis(2-chloroethoxy)methane           93    5.125    5.126 (0.956)    120646   20.0000     19.38
  49 2,4-Dichlorophenol                  162    5.229    5.229 (0.975)     84525   20.0000     20.54
  50 Benzoic Acid                        122    5.094    5.115 (0.950)     54506   20.0000     17.49
  51 1,2,4-Trichlorobenzene              180    5.322    5.322 (0.992)     89082   20.0000     19.97
  52 Naphthalene                         128    5.395    5.395 (1.006)    336100   20.0000     19.30
  54 4-Chloroaniline                     127    5.488    5.488 (1.023)    135348   20.0000     19.76
  57 Hexachlorobutadiene                 225    5.613    5.613 (1.046)     45138   20.0000     21.26
  60 4-Chloro-3-Methylphenol             107    6.068    6.069 (1.131)     90970   20.0000     19.21
  63 2-Methylnaphthalene                 142    6.203    6.203 (1.156)    212981   20.0000     20.04
  66 Hexachlorocyclopentadiene           237    6.483    6.483 (0.868)     47478   20.0000     18.94
  69 2,4,6-Trichlorophenol               196    6.576    6.576 (0.881)     49658   20.0000     19.96(Q)
  70 2,4,5-Trichlorphenol                196    6.576    6.628 (0.881)     49658   20.0000     18.17(Q)
  71 2-Chloronaphthalene                 162    6.784    6.784 (0.908)    180754   20.0000     19.62
  73 2-Nitroaniline                       65    6.949    6.949 (0.931)     54872   20.0000     17.78
  76 Dimethylphthalate                   163    7.219    7.229 (0.967)    213272   20.0000     20.04
  77 Acenaphthylene                      152    7.281    7.281 (0.975)    315165   20.0000     19.57
  79 2,6-Dinitrotoluene                  165    7.219    7.302 (0.967)     51125   20.0000     21.45(Q)
  80 3-Nitroaniline                      138    7.447    7.447 (0.997)     59114   20.0000     18.71
  81 Acenaphthene                        153    7.509    7.509 (1.006)    208228   20.0000     20.29
  82 2,4-Dinitrophenol                   184    7.571    7.571 (1.014)     23799   20.0000     19.22
  83 Dibenzofuran                        168    7.695    7.706 (1.031)    271431   20.0000     20.02
  84 4-Nitrophenol                       109    7.675    7.675 (1.028)     25164   20.0000     18.24(Q)
  86 2,4-Dinitrotoluene                  165    7.768    7.768 (1.040)     63223   20.0000     19.81
  91 Fluorene                            166    8.131    8.131 (1.089)    220647   20.0000     19.86
  92 Diethylphthalate                    149    8.100    8.100 (1.085)    216140   20.0000     19.43
  93 4-Chlorophenyl-phenylether          204    8.151    8.152 (1.092)     93468   20.0000     20.41
  94 4-Nitroaniline                      138    8.214    8.214 (1.100)     61333   20.0000     19.86
  97 4,6-Dinitro-2-methylphenol          198    8.276    8.276 (0.880)     32982   20.0000     20.90
  98 N-Nitrosodiphenylamine              169    8.317    8.317 (0.884)    186206   23.4000     22.72
 100 Azobenzene                           77    8.348    8.348 (0.888)    203290   20.0000     17.83
 101 4-Bromophenyl-phenylether           248    8.794    8.794 (0.935)     50693   20.0000     19.95
 108 Hexachlorobenzene                   284    8.980    8.981 (0.955)     54528   20.0000     19.87
 110 Pentachlorophenol                   266    9.240    9.240 (0.982)     30451   20.0000     18.48
 114 Phenanthrene                        178    9.436    9.437 (1.003)    329718   20.0000     20.10
 115 Anthracene                          178    9.499    9.499 (1.010)    326558   20.0000     19.78
 118 Carbazole                           167    9.768    9.768 (1.039)    298921   20.0000     19.47
 120 Di-n-Butylphthalate                 149   10.462   10.463 (1.112)    358075   20.0000     19.29
 126 Fluoranthene                        202   11.302   11.302 (1.202)    308182   20.0000     20.88
 127 Benzidine                           184   11.571   11.571 (0.840)    222260   20.0000     18.32
 128 Pyrene                              202   11.665   11.665 (0.847)    345805   20.0000     18.72
 134 3,3'-dimethylbenzidine              212   12.867   12.867 (0.934)    198960   20.0000     19.11
 136 Butylbenzylphthalate                149   12.991   12.991 (0.943)    174685   20.0000     18.51
 138 Benzo(a)Anthracene                  228   13.758   13.758 (0.998)    304948   20.0000     19.57
 139 Chrysene                            228   13.820   13.831 (1.003)    314030   20.0000     19.39
 140 3,3'-Dichlorobenzidine              252   13.799   13.799 (1.002)    115458   20.0000     20.25
 141 bis(2-ethylhexyl)Phthalate          149   14.110   14.110 (1.024)    248201   20.0000     19.10
 142 Di-n-octylphthalate                 149   15.157   15.167 (1.100)    400592   20.0000     19.28
 144 Benzo(b)fluoranthene                252   15.582   15.582 (0.964)    256213   20.0000     17.45(Q)
 145 Benzo(k)fluoranthene                252   15.613   15.623 (0.966)    371629   20.0000     21.66(q)
 147 Benzo(e)pyrene                      252   15.996   16.007 (0.990)    281015   20.0000     19.30
 148 Benzo(a)pyrene                      252   16.069   16.079 (0.994)    307781   20.0000     19.26
 151 Indeno(1,2,3-cd)pyrene              276   17.789   17.800 (1.101)    228110   20.0000     16.13
 152 Dibenzo(a,h)anthracene              278   17.841   17.841 (1.104)    270172   20.0000     18.64
 153 Benzo(g,h,i)perylene                276   18.224   18.235 (1.128)    301520   20.0000     19.41
```

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Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002C.D                    Page 3
Report Date: 02-Oct-2010 16:57

                                                                                      AMOUNTS
                                         QUANT SIG                                CAL-AMT    ON-COL
Compounds                                 MASS        RT   EXP RT   REL RT  RESPONSE  (   NG)    (   NG)
==========================                ====        ==== ======== ======== ========  =======    =======
M 162 benzo b,k Fluoranthene Totals        252                                627842  20.0000      19.72(A)
```

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
q - Qualifier signal exceeded ratio warning limit.

Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002C.D
Report Date: 03-Oct-2010 11:13

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002C.D
Lab Smp Id: HSL_020 ug/ml CS-3
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0309;0;8270F.M

Calibration Date: 02-OCT-2010
Calibration Time: 13:44
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	145926	19.00
2 Naphthalene-d8	530514	265257	1061028	625682	17.94
3 Acenaphthene-d10	282538	141269	565076	328608	16.31
4 Phenanthrene-d10	462722	231361	925444	525834	13.64
5 Chrysene-d12	435850	217925	871700	590727	35.53
6 Perylene-d12	422284	211142	844568	619266	46.65

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.95	-0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.36	-0.20
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	-0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	-0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	-0.00
6 Perylene-d12	16.16	15.66	16.66	16.16	-0.00

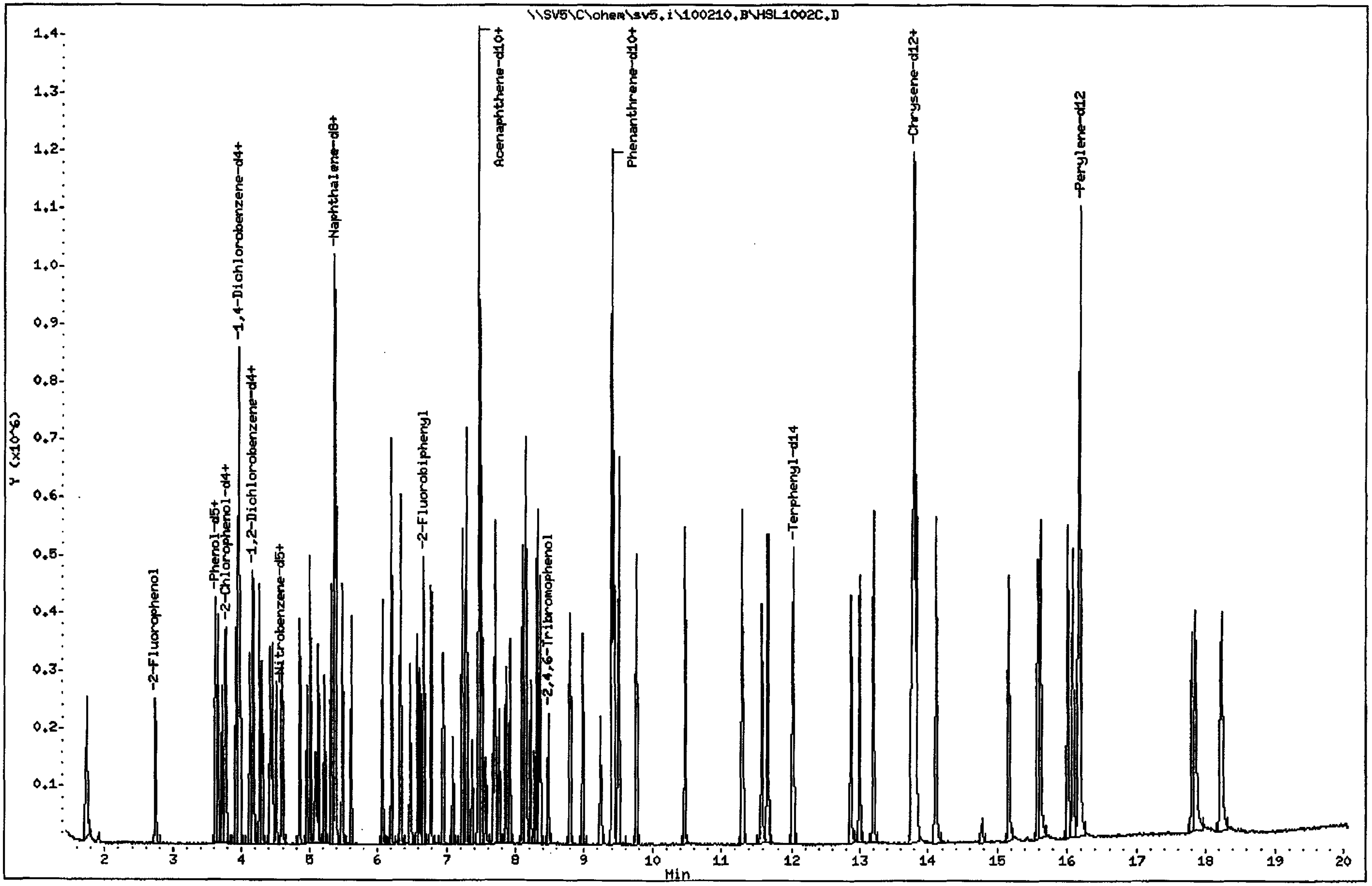
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002C.D
Date : 02-OCT-2010 13:18
Client ID: 8270F.M
Sample Info: HSL_020 ug/ml CS-3;1;;3;;;;;4

Column phase:

Instrument: sv5.i

Operator: KT
Column diameter: 2.00



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Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002D.D                  Page 1
Report Date: 03-Oct-2010 11:14


                          TestAmerica West Sacramento

                                Method 8270C
Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002D.D
Lab Smp Id: HSL_050 ug/ml CS-4          Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 13:44
Operator  : KT                          Inst ID: sv5.i
Smp Info  : HSL_050 ug/ml CS-4;1;;4;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\100210.B\8270f.m
Meth Date : 03-Oct-2010 11:09 onishim    Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19           Cal File: AP90817D.D
Als bottle: 4                           Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon                      Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SACP307UM


                                                                               AMOUNTS
                                   QUANT SIG                                 CAL-AMT   ON-COL
Compounds                             MASS      RT    EXP RT  REL RT  RESPONSE  (   NG)   (   NG)
==========================            ====    ====  ======== ======== ========  =======   =======
*   1 1,4-Dichlorobenzene-d4           152    3.955    3.955 (1.000)    122625  40.0000
*   2 Naphthalene-d8                   136    5.374    5.374 (1.000)    530514  40.0000
*   3 Acenaphthene-d10                 164    7.468    7.468 (1.000)    282538  40.0000
*   4 Phenanthrene-d10                 188    9.405    9.405 (1.000)    462722  40.0000
*   5 Chrysene-d12                     240   13.779   13.779 (1.000)    435850  40.0000
*   6 Perylene-d12                     264   16.162   16.162 (1.000)    422284  40.0000
$   7 2-Fluorophenol                   112    2.732    2.732 (0.691)    220986  50.0000     51.13
$   8 Phenol-d5                         99    3.613    3.613 (0.914)    274382  50.0000     50.48
$   9 2-Chlorophenol-d4                132    3.758    3.758 (0.950)    244352  50.0000     51.19
$  10 1,2-Dichlorobenzene-d4           152    4.162    4.162 (1.052)    151616  50.0000     50.20
$  11 Nitrobenzene-d5                   82    4.576    4.576 (0.852)    226162  50.0000     50.33
$  12 2-Fluorobiphenyl                 172    6.680    6.680 (0.895)    473978  50.0000     52.08
$  13 2,4,6-Tribromophenol             330    8.473    8.473 (1.135)     63311  50.0000     51.57
$  14 Terphenyl-d14                    244   12.017   12.017 (0.872)    438253  50.0000     51.05
   15 N-Nitrosodimethylamine            74    1.706    1.706 (0.431)    140972  50.0000     49.90(M)
   16 Pyridine                          79    1.726    1.726 (0.437)    240053  50.0000     50.81(M)
   23 Aniline                           93    3.654    3.654 (0.924)    346504  50.0000     50.08
   24 Phenol                            94    3.623    3.623 (0.916)    311820  50.0000     49.93
   26 Bis(2-chloroethyl)ether           93    3.716    3.716 (0.940)    220455  50.0000     50.34
   27 2-Chlorophenol                   128    3.768    3.768 (0.953)    242442  50.0000     50.57
   28 1,3-Dichlorobenzene              146    3.923    3.923 (0.992)    265384  50.0000     50.82
   29 1,4-Dichlorobenzene              146    3.975    3.975 (1.005)    271151  50.0000     49.66
   30 Benzyl Alcohol                   108    4.120    4.120 (1.042)    160914  50.0000     49.94
   31 1,2-Dichlorobenzene              146    4.172    4.172 (1.055)    257606  50.0000     51.32
   32 2-Methylphenol                   108    4.255    4.255 (1.076)    218610  50.0000     49.86
   33 2,2'-oxybis(1-Chloropropane)      45    4.297    4.297 (1.086)    349371  50.0000     50.12
   34 4-Methylphenol                   108    4.421    4.421 (1.118)    233354  50.0000     50.11
   36 Hexachloroethane                 117    4.504    4.504 (1.139)     94106  50.0000     50.62
   37 N-Nitrosodinpropylamine           70    4.442    4.442 (1.123)    156914  50.0000     50.59
   42 Nitrobenzene                      77    4.597    4.597 (0.855)    219387  50.0000     49.95
   44 Isophorone                        82    4.856    4.856 (0.904)    420061  50.0000     49.74
   45 2-Nitrophenol                    139    4.960    4.960 (0.923)    132771  50.0000     50.95
   46 2,4-Dimethyphenol                107    5.012    5.012 (0.933)    231517  50.0000     50.00
```

10-3-10

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Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002D.D                    Page 2
Report Date: 03-Oct-2010 11:14

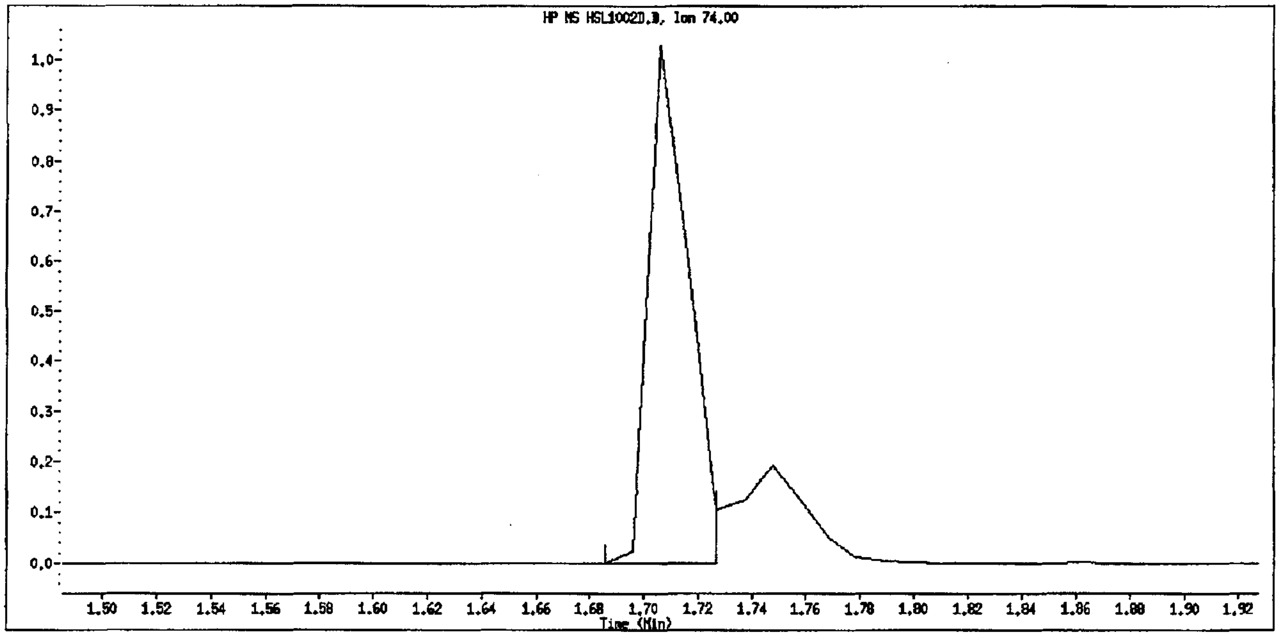

                                                                                    AMOUNTS
                                          QUANT SIG                            CAL-AMT    ON-COL
Compounds                                   MASS       RT    EXP RT   REL RT   RESPONSE   (   NG)   (   NG)
=========================                   ====     ====  ======== ======== ========   =======   =======
   47 Bis(2-chloroethoxy)methane             93     5.126   5.126 (0.954)    253648   50.0000     49.15
   49 2,4-Dichlorophenol                    162     5.229   5.229 (0.973)    179296   50.0000     50.05
   50 Benzoic Acid                          122     5.115   5.115 (0.952)    128366   50.0000     50.08
   51 1,2,4-Trichlorobenzene                180     5.322   5.322 (0.990)    197265   50.0000     50.86
   52 Naphthalene                           128     5.395   5.395 (1.004)    724980   50.0000     49.49
   54 4-Chloroaniline                       127     5.488   5.488 (1.021)    291184   50.0000     50.72
   57 Hexachlorobutadiene                   225     5.613   5.613 (1.044)     95592   50.0000     50.36
   60 4-Chloro-3-Methylphenol               107     6.069   6.069 (1.129)    205388   50.0000     51.34
   63 2-Methylnaphthalene                   142     6.203   6.203 (1.154)    464646   50.0000     50.50
   66 Hexachlorocyclopentadiene             237     6.483   6.483 (0.868)    104908   50.0000     49.76
   69 2,4,6-Trichlorophenol                 196     6.576   6.576 (0.881)    113001   50.0000     50.13
   70 2,4,5-Trichlorphenol                  196     6.628   6.628 (0.888)    128196   50.0000     52.79
   71 2-Chloronaphthalene                   162     6.784   6.784 (0.908)    403257   50.0000     50.72
   73 2-Nitroaniline                         65     6.949   6.949 (0.931)    124335   50.0000     51.59
   76 Dimethylphthalate                     163     7.229   7.229 (0.968)    475258   50.0000     51.91
   77 Acenaphthylene                        152     7.281   7.281 (0.975)    712158   50.0000     51.43
   79 2,6-Dinitrotoluene                    165     7.302   7.302 (0.978)    110261   50.0000     51.69
   80 3-Nitroaniline                        138     7.447   7.447 (0.997)    141396   50.0000     53.11
   81 Acenaphthene                          153     7.509   7.509 (1.006)    448691   50.0000     50.90
   82 2,4-Dinitrophenol                     184     7.571   7.572 (1.014)     58864   50.0000     47.37
   83 Dibenzofuran                          168     7.706   7.706 (1.032)    598735   50.0000     51.18
   84 4-Nitrophenol                         109     7.675   7.675 (1.028)     56777   50.0000     51.41
   86 2,4-Dinitrotoluene                    165     7.768   7.768 (1.040)    148875   50.0000     53.18
   91 Fluorene                              166     8.131   8.131 (1.089)    494097   50.0000     51.01
   92 Diethylphthalate                      149     8.100   8.100 (1.085)    487067   50.0000     51.96
   93 4-Chlorophenyl-phenylether            204     8.152   8.152 (1.092)    209308   50.0000     51.97
   94 4-Nitroaniline                        138     8.214   8.214 (1.100)    135397   50.0000     51.31
   97 4,6-Dinitro-2-methylphenol            198     8.276   8.276 (0.880)     76137   50.0000     46.58
   98 N-Nitrosodiphenylamine                169     8.317   8.317 (0.884)    409666   58.6000     58.41
  100 Azobenzene                             77     8.348   8.348 (0.888)    459960   50.0000     50.55
  101 4-Bromophenyl-phenylether             248     8.794   8.794 (0.935)    115283   50.0000     51.04
  108 Hexachlorobenzene                     284     8.981   8.981 (0.955)    124963   50.0000     49.54
  110 Pentachlorophenol                     266     9.240   9.240 (0.982)     67882   50.0000     45.48
  114 Phenanthrene                          178     9.437   9.437 (1.003)    718164   50.0000     49.24
  115 Anthracene                            178     9.499   9.499 (1.010)    728681   50.0000     50.01
  118 Carbazole                             167     9.768   9.768 (1.039)    660885   50.0000     49.65
  120 Di-n-Butylphthalate                   149    10.463  10.463 (1.112)    799142   50.0000     49.90
  126 Fluoranthene                          202    11.302  11.302 (1.202)    639252   50.0000     48.92
  127 Benzidine                             184    11.571  11.571 (0.840)    450332   50.0000     50.98
  128 Pyrene                                202    11.665  11.665 (0.847)    701084   50.0000     51.46
  134 3,3'-dimethylbenzidine                212    12.867  12.867 (0.934)    385489   50.0000     49.44
  136 Butylbenzylphthalate                  149    12.991  12.991 (0.943)    340978   50.0000     49.94
  138 Benzo(a)Anthracene                    228    13.758  13.758 (0.998)    569271   50.0000     49.03
  139 Chrysene                              228    13.831  13.831 (1.004)    597685   50.0000     50.33
  140 3,3'-Dichlorobenzidine                252    13.799  13.799 (1.002)    217413   50.0000     49.65
  141 bis(2-ethylhexyl)Phthalate            149    14.110  14.110 (1.024)    464144   50.0000     49.35
  142 Di-n-octylphthalate                   149    15.167  15.167 (1.101)    732406   50.0000     48.72
  144 Benzo(b)fluoranthene                  252    15.582  15.582 (0.964)    527487   50.0000     55.18
  145 Benzo(k)fluoranthene                  252    15.623  15.623 (0.967)    580084   50.0000     47.27
  147 Benzo(e)pyrene                        252    16.007  16.007 (0.990)    506622   50.0000     50.82
  148 Benzo(a)pyrene                        252    16.079  16.079 (0.995)    542578   50.0000     50.06
  151 Indeno(1,2,3-cd)pyrene                276    17.800  17.800 (1.101)    447085   50.0000     51.00(M)
  152 Dibenzo(a,h)anthracene                278    17.841  17.841 (1.104)    486893   50.0000     49.72
  153 Benzo(g,h,i)perylene                  276    18.235  18.235 (1.128)    527720   50.0000     49.77
```

```
                                                                                         AMOUNTS
                                          QUANT SIG                                  CAL-AMT    ON-COL
Compounds                                   MASS        RT   EXP RT   REL RT  RESPONSE  (   NG)    (   NG)
=========================                   ====      ====  =======  =======  ========  =======    =======
M 162 benzo b,k Fluoranthene Totals          252                               1107571   50.0000      50.74(A)
```

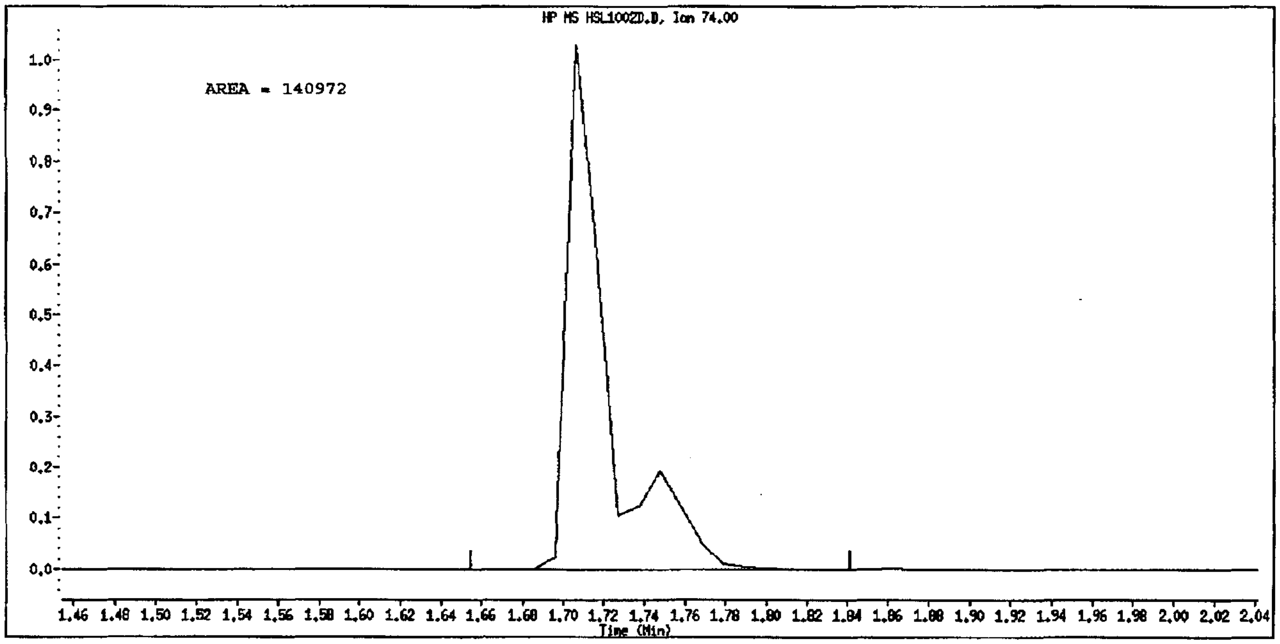
```
QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.
```

Data File Name: HSL1002D.D
Inj. Date and Time: 02-OCT-2010 13:44
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 10/03/2010



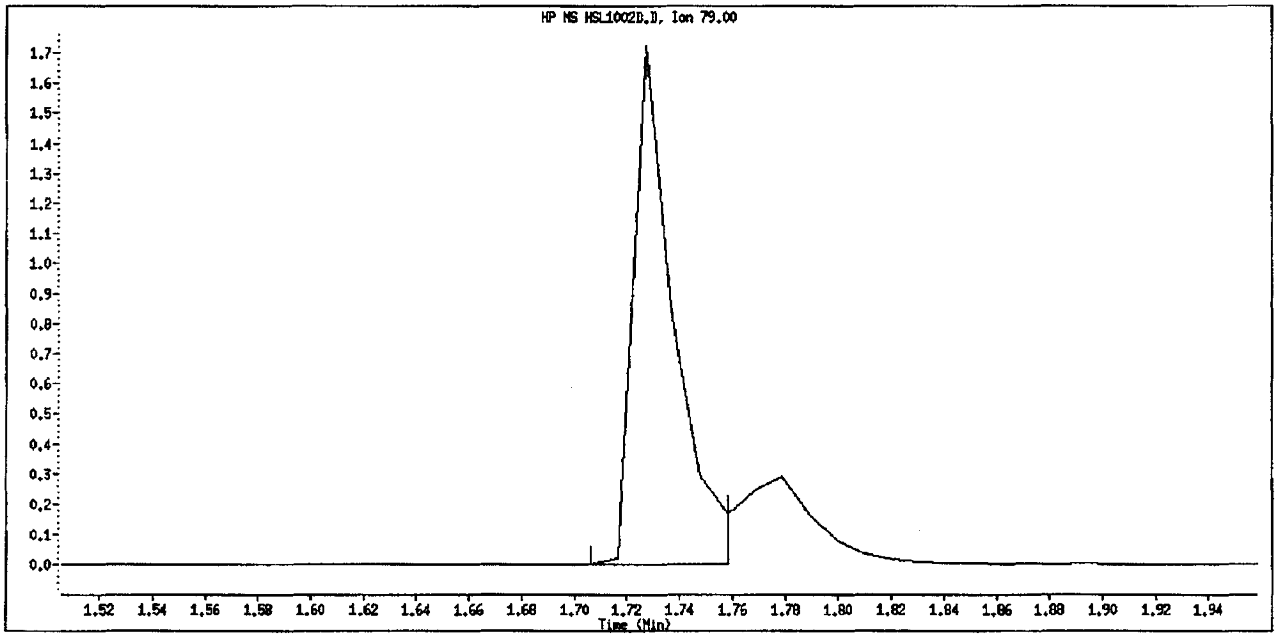
Original Integration



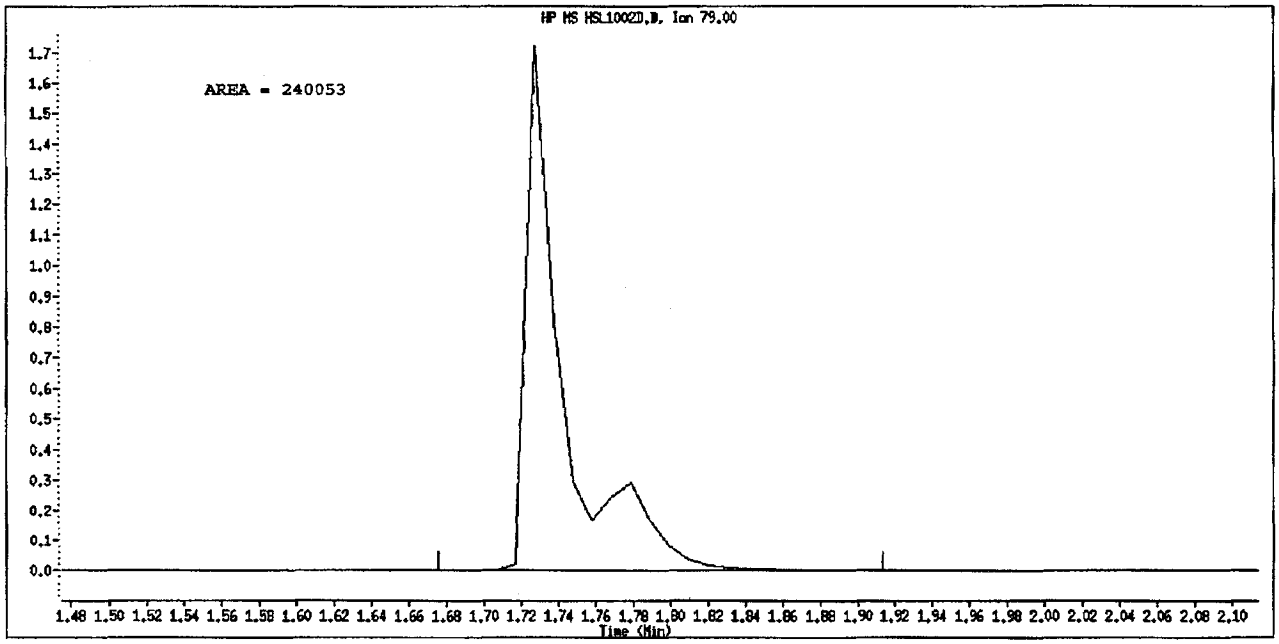
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

Data File Name: HSL1002D.D
Inj. Date and Time: 02-OCT-2010 13:44
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 10/03/2010



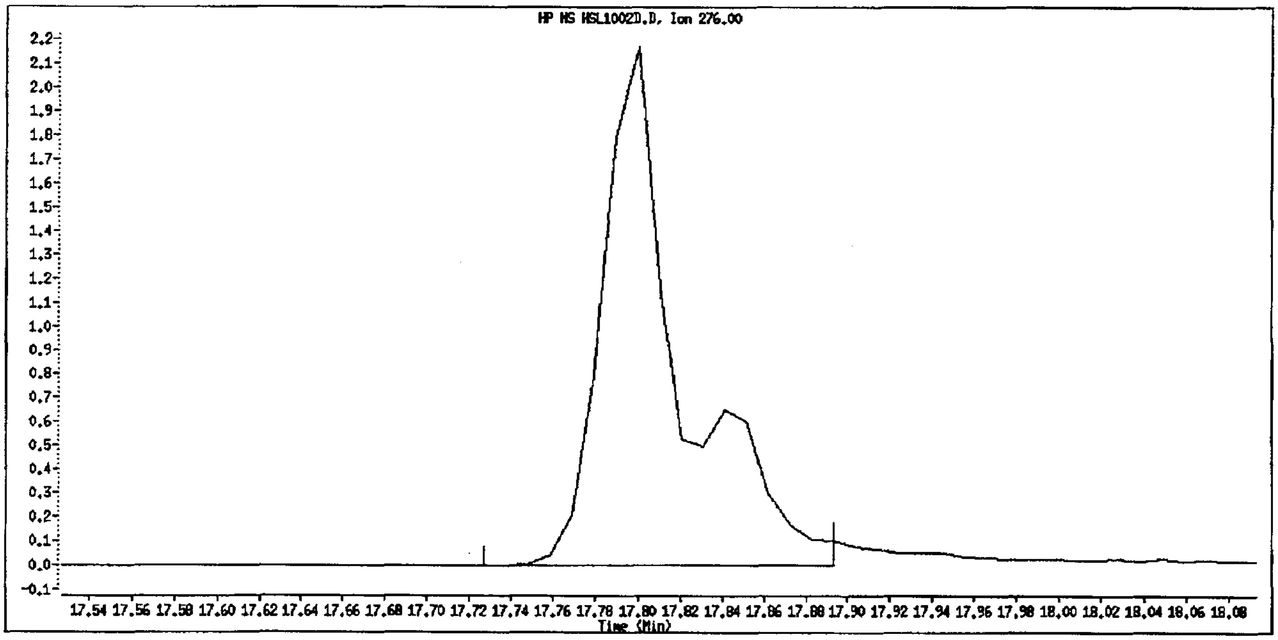
Original Integration



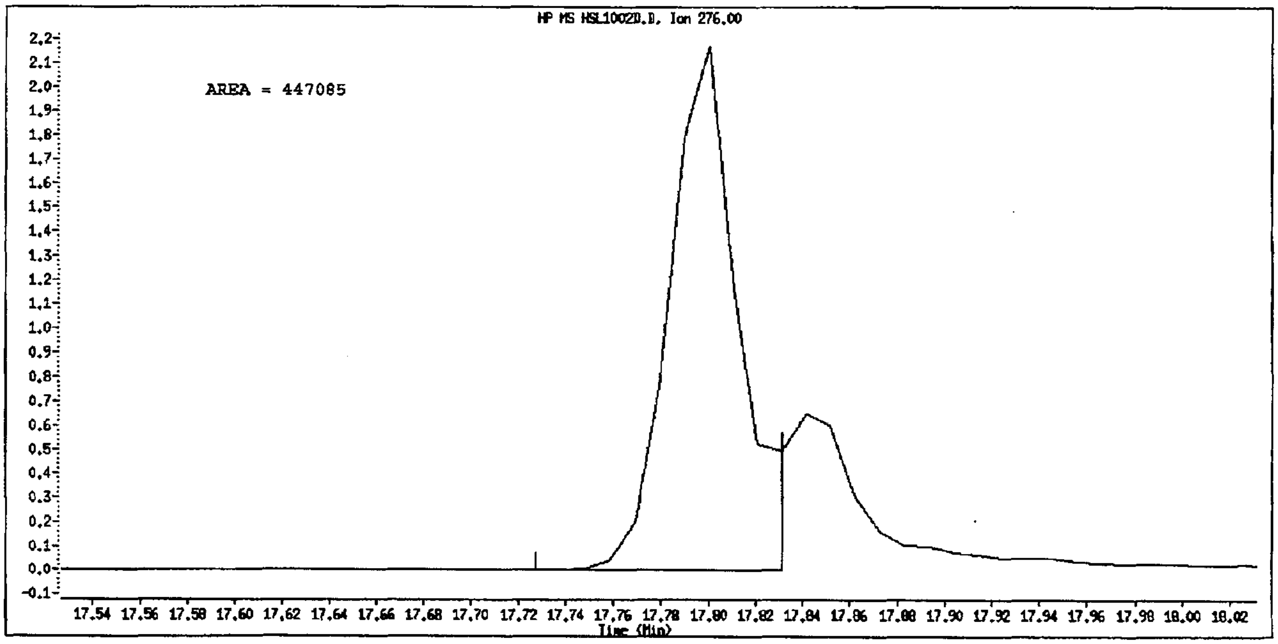
Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

Data File Name: HSL1002D.D
Inj. Date and Time: 02-OCT-2010 13:44
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

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Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002D.D                    Page 1
Report Date: 02-Oct-2010 16:57

                              TestAmerica West Sacramento

                                      Method 8270C
Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002D.D
Lab Smp Id: HSL_050 ug/ml CS-4              Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 13:44
Operator  : KT                              Inst ID: sv5.i
Smp Info  : HSL_050 ug/ml CS-4;1;;4;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Meth Date : 02-Oct-2010 16:57 onishim      Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19               Cal File: AP90817D.D
Als bottle: 4                               Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon                          Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SV5

                                                                                    AMOUNTS
                                     QUANT SIG                                      CAL-AMT    ON-COL
Compounds                              MASS        RT    EXP RT   REL RT  RESPONSE  (   NG)   (   NG)
===========================            ====      ====  ======== ======== ========  =======   =======
*  1 1,4-Dichlorobenzene-d4             152      3.955    3.955 (1.000)    122625  40.0000
*  2 Naphthalene-d8                     136      5.374    5.374 (1.000)    530514  40.0000
*  3 Acenaphthene-d10                   164      7.468    7.468 (1.000)    282538  40.0000
*  4 Phenanthrene-d10                   188      9.405    9.405 (1.000)    462722  40.0000
*  5 Chrysene-d12                       240     13.779   13.779 (1.000)    435850  40.0000
*  6 Perylene-d12                       264     16.162   16.162 (1.000)    422284  40.0000
$  7 2-Fluorophenol                     112      2.732    2.732 (0.691)    220986  50.0000     48.83
$  8 Phenol-d5                           99      3.613    3.613 (0.914)    274382  50.0000     47.67
$  9 2-Chlorophenol-d4                  132      3.758    3.758 (0.950)    244352  50.0000     49.80
$ 10 1,2-Dichlorobenzene-d4             152      4.162    4.162 (1.052)    151616  50.0000     49.50
$ 11 Nitrobenzene-d5                     82      4.576    4.576 (0.852)    226162  50.0000     48.07
$ 12 2-Fluorobiphenyl                   172      6.680    6.680 (0.895)    473978  50.0000     52.38
$ 13 2,4,6-Tribromophenol               330      8.473    8.473 (1.135)     63311  50.0000     56.75
$ 14 Terphenyl-d14                      244     12.017   12.017 (0.872)    438253  50.0000     51.56
  15 N-Nitrosodimethylamine              74      1.706    1.706 (0.431)    105836  50.0000     35.43
  16 Pyridine                            79      1.726    1.726 (0.437)    182664  50.0000     36.70
  23 Aniline                             93      3.654    3.654 (0.924)    346504  50.0000     48.01
  24 Phenol                              94      3.623    3.623 (0.916)    311820  50.0000     50.94
  26 Bis(2-chloroethyl)ether             93      3.716    3.716 (0.940)    220455  50.0000     47.40
  27 2-Chlorophenol                     128      3.768    3.768 (0.953)    242442  50.0000     50.05
  28 1,3-Dichlorobenzene                146      3.923    3.923 (0.992)    265384  50.0000     49.58
  29 1,4-Dichlorobenzene                146      3.975    3.975 (1.005)    271151  50.0000     50.11
  30 Benzyl Alcohol                     108      4.120    4.120 (1.042)    160914  50.0000     48.35
  31 1,2-Dichlorobenzene                146      4.172    4.172 (1.055)    257606  50.0000     50.23
  32 2-Methylphenol                     108      4.255    4.255 (1.076)    218610  50.0000     48.31
  33 2,2'-oxybis(1-Chloropropane)        45      4.297    4.297 (1.086)    349371  50.0000     40.48
  34 4-Methylphenol                     108      4.421    4.421 (1.118)    233354  50.0000     48.39
  36 Hexachloroethane                   117      4.504    4.504 (1.139)     94106  50.0000     49.29
  37 N-Nitrosodinpropylamine             70      4.442    4.442 (1.123)    156914  50.0000     46.48
  42 Nitrobenzene                        77      4.597    4.597 (0.855)    219387  50.0000     46.91
  44 Isophorone                          82      4.856    4.856 (0.904)    420061  50.0000     47.38
  45 2-Nitrophenol                      139      4.960    4.960 (0.923)    132771  50.0000     52.00
  46 2,4-Dimethyphenol                  107      5.012    5.012 (0.933)    231517  50.0000     48.84
```

```
Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002D.D
Report Date: 02-Oct-2010 16:57

                                                                                   AMOUNTS
                                     QUANT SIG                                CAL-AMT    ON-COL
Compounds                              MASS       RT   EXP RT  REL RT  RESPONSE  (   NG)   (   NG)
==========================            ====      ==== ======== ======== ========  =======   =======
   47 Bis(2-chloroethoxy)methane        93     5.126   5.126 (0.954)    253648  50.0000     48.05
   49 2,4-Dichlorophenol               162     5.229   5.229 (0.973)    179296  50.0000     51.39
   50 Benzoic Acid                     122     5.115   5.115 (0.952)    128366  50.0000     48.58
   51 1,2,4-Trichlorobenzene           180     5.322   5.322 (0.990)    197265  50.0000     52.15
   52 Naphthalene                      128     5.395   5.395 (1.004)    724980  50.0000     49.10
   54 4-Chloroaniline                  127     5.488   5.488 (1.021)    291184  50.0000     50.12
   57 Hexachlorobutadiene              225     5.613   5.613 (1.044)     95592  50.0000     53.11
   60 4-Chloro-3-Methylphenol          107     6.069   6.069 (1.129)    205388  50.0000     51.16
   63 2-Methylnaphthalene              142     6.203   6.203 (1.154)    464646  50.0000     51.57
   66 Hexachlorocyclopentadiene        237     6.483   6.483 (0.868)    104908  50.0000     48.68
   69 2,4,6-Trichlorophenol            196     6.576   6.576 (0.881)    113001  50.0000     52.83
   70 2,4,5-Trichlorphenol             196     6.628   6.628 (0.888)    128196  50.0000     54.56
   71 2-Chloronaphthalene              162     6.784   6.784 (0.908)    403257  50.0000     50.91
   73 2-Nitroaniline                    65     6.949   6.949 (0.931)    124335  50.0000     46.87
   76 Dimethylphthalate                163     7.229   7.229 (0.968)    475258  50.0000     51.95
   77 Acenaphthylene                   152     7.281   7.281 (0.975)    712158  50.0000     51.43
   79 2,6-Dinitrotoluene               165     7.302   7.302 (0.978)    110261  50.0000     53.82
   80 3-Nitroaniline                   138     7.447   7.447 (0.997)    141396  50.0000     52.05
   81 Acenaphthene                     153     7.509   7.509 (1.006)    448691  50.0000     50.85
   82 2,4-Dinitrophenol                184     7.571   7.571 (1.014)     58864  50.0000     48.70
   83 Dibenzofuran                     168     7.706   7.706 (1.032)    598735  50.0000     51.36
   84 4-Nitrophenol                    109     7.675   7.675 (1.028)     56777  50.0000     47.87
   86 2,4-Dinitrotoluene               165     7.768   7.768 (1.040)    148875  50.0000     54.24
   91 Fluorene                         166     8.131   8.131 (1.089)    494097  50.0000     51.73
   92 Diethylphthalate                 149     8.100   8.100 (1.085)    487067  50.0000     50.93
   93 4-Chlorophenyl-phenylether       204     8.152   8.152 (1.092)    209308  50.0000     53.15
   94 4-Nitroaniline                   138     8.214   8.214 (1.100)    135397  50.0000     50.99
   97 4,6-Dinitro-2-methylphenol       198     8.276   8.276 (0.880)     76137  50.0000     46.45
   98 N-Nitrosodiphenylamine           169     8.317   8.317 (0.884)    409666  58.6000     56.82
  100 Azobenzene                        77     8.348   8.348 (0.888)    459960  50.0000     45.85
  101 4-Bromophenyl-phenylether        248     8.794   8.794 (0.935)    115283  50.0000     51.56
  108 Hexachlorobenzene                284     8.981   8.981 (0.955)    124963  50.0000     51.74
  110 Pentachlorophenol                266     9.240   9.240 (0.982)     67882  50.0000     46.83
  114 Phenanthrene                     178     9.437   9.437 (1.003)    718164  50.0000     49.76
  115 Anthracene                       178     9.499   9.499 (1.010)    728681  50.0000     50.17
  118 Carbazole                        167     9.768   9.768 (1.039)    660885  50.0000     48.92
  120 Di-n-Butylphthalate              149    10.463  10.463 (1.112)    799142  50.0000     48.91
  126 Fluoranthene                     202    11.302  11.302 (1.202)    639252  50.0000     49.21
  127 Benzidine                        184    11.571  11.571 (0.840)    450332  50.0000     50.32
  128 Pyrene                           202    11.665  11.665 (0.847)    701084  50.0000     51.44
  134 3,3'-dimethylbenzidine           212    12.867  12.867 (0.934)    385489  50.0000     50.19
  136 Butylbenzylphthalate             149    12.991  12.991 (0.943)    340978  50.0000     48.97
  138 Benzo(a)Anthracene               228    13.758  13.758 (0.998)    569271  50.0000     49.51
  139 Chrysene                         228    13.831  13.831 (1.004)    597685  50.0000     50.03
  140 3,3'-Dichlorobenzidine           252    13.799  13.799 (1.002)    217413  50.0000     51.67
  141 bis(2-ethylhexyl)Phthalate       149    14.110  14.110 (1.024)    464144  50.0000     48.41
  142 Di-n-octylphthalate              149    15.167  15.167 (1.101)    732406  50.0000     47.78
  144 Benzo(b)fluoranthene             252    15.582  15.582 (0.964)    527487  50.0000     52.68
  145 Benzo(k)fluoranthene             252    15.623  15.623 (0.967)    580084  50.0000     49.57
  147 Benzo(e)pyrene                   252    16.007  16.007 (0.990)    506622  50.0000     51.04
  148 Benzo(a)pyrene                   252    16.079  16.079 (0.995)    542578  50.0000     49.78
  151 Indeno(1,2,3-cd)pyrene           276    17.800  17.800 (1.101)    564014  50.0000     58.49
  152 Dibenzo(a,h)anthracene           278    17.841  17.841 (1.104)    486893  50.0000     49.27
  153 Benzo(g,h,i)perylene             276    18.235  18.235 (1.128)    527720  50.0000     49.81
```

```
                                                                         AMOUNTS
                                     QUANT SIG                      CAL-AMT   ON-COL
Compounds                              MASS      RT  EXP RT  REL RT  RESPONSE  (   NG)   (   NG)
==========================           ====      ==== ======== ======== ========  =======   =======
M 162 benzo b,k Fluoranthene Totals    252                             1107571   50.0000     51.00(A)
```

```
QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
```

Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002D.D
Report Date: 03-Oct-2010 11:14

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002D.D
Lab Smp Id: HSL_050 ug/ml CS-4
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 02-OCT-2010
Calibration Time: 13:44
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	122625	0.00
2 Naphthalene-d8	530514	265257	1061028	530514	0.00
3 Acenaphthene-d10	282538	141269	565076	282538	0.00
4 Phenanthrene-d10	462722	231361	925444	462722	0.00
5 Chrysene-d12	435850	217925	871700	435850	0.00
6 Perylene-d12	422284	211142	844568	422284	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.78	0.00
6 Perylene-d12	16.16	15.66	16.66	16.16	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

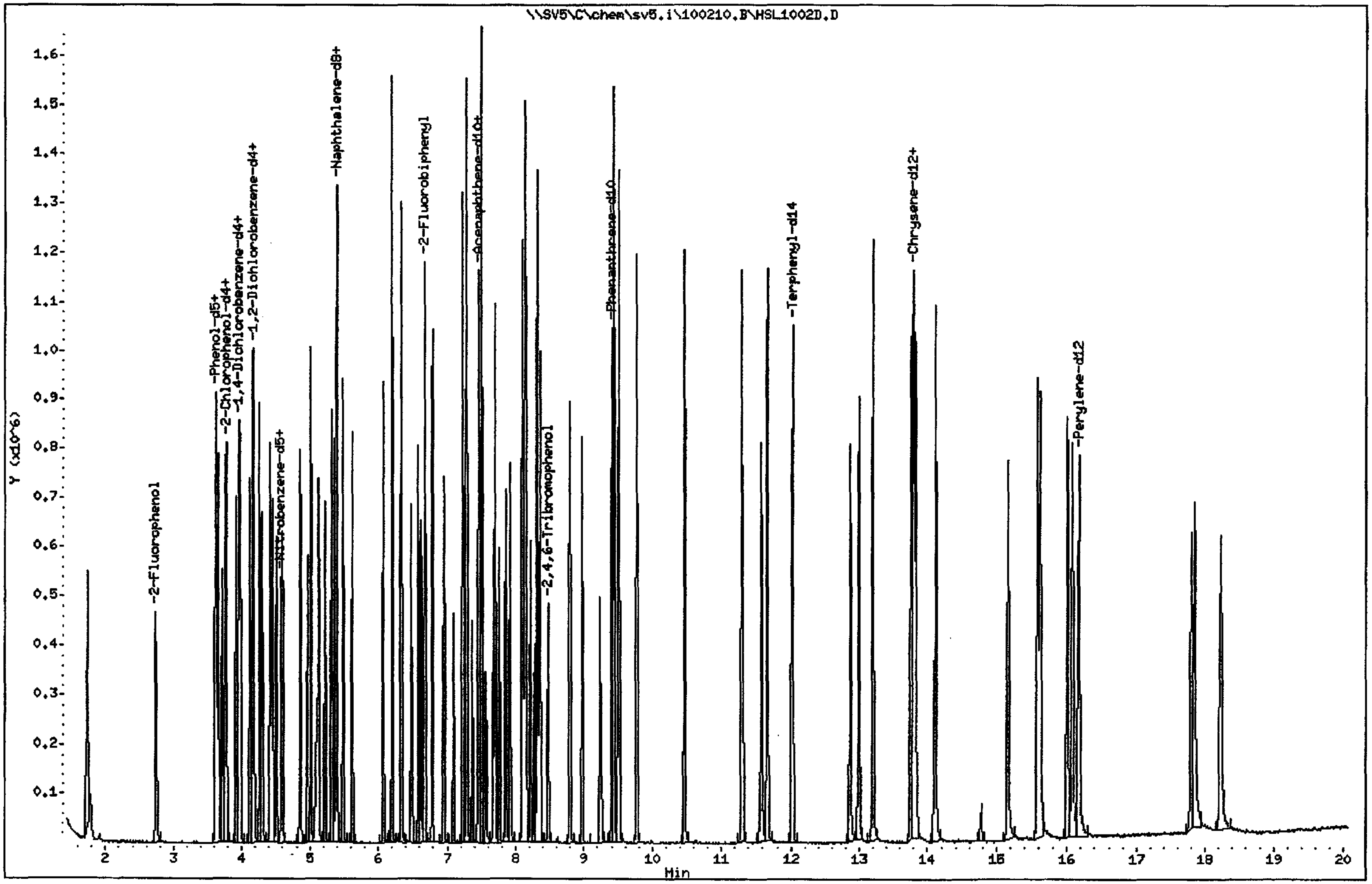
Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002D.D
Date : 02-OCT-2010 13:44
Client ID: 8270F.M
Sample Info: HSL_050 ug/ml CS-4;1;;4;;;;4

Column phase:

Page 5

Instrument: sv5.i

Operator: KT
Column diameter: 2.00



```
                              TestAmerica West Sacramento

                                      Method 8270C
Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002E.D
Lab Smp Id: HSL_080 ug/ml CS-5            Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 14:09
Operator  : KT                            Inst ID: sv5.i
Smp Info  : HSL_080 ug/ml CS-5;1;;5;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0311;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\100210.B\8270f.m
Meth Date : 03-Oct-2010 11:09 onishim     Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19             Cal File: AP90817D.D
Als bottle: 5                             Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon                        Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SACP307UM


                                                                              AMOUNTS
                                       QUANT SIG                           CAL-AMT    ON-COL
Compounds                               MASS       RT    EXP RT  REL RT  RESPONSE  (   NG)   (   NG)
=========================               ====     ====  ======== ======== ========  =======   =======
*   1 1,4-Dichlorobenzene-d4             152     3.954   3.955 (1.000)    126989   40.0000        (q)
*   2 Naphthalene-d8                     136     5.374   5.374 (1.000)    553454   40.0000
*   3 Acenaphthene-d10                   164     7.468   7.468 (1.000)    300315   40.0000
*   4 Phenanthrene-d10                   188     9.405   9.405 (1.000)    477777   40.0000
*   5 Chrysene-d12                       240    13.789  13.779 (1.000)    486126   40.0000
*   6 Perylene-d12                       264    16.162  16.162 (1.000)    482782   40.0000
$   7 2-Fluorophenol                     112     2.742   2.732 (0.693)    364547   80.0000     81.44
$   8 Phenol-d5                           99     3.612   3.613 (0.914)    459352   80.0000     81.61
$   9 2-Chlorophenol-d4                  132     3.758   3.758 (0.950)    399981   80.0000     80.92
$  10 1,2-Dichlorobenzene-d4             152     4.162   4.162 (1.052)    252754   80.0000     80.82
$  11 Nitrobenzene-d5                     82     4.587   4.576 (0.853)    371989   80.0000     79.35
$  12 2-Fluorobiphenyl                   172     6.680   6.680 (0.895)    755916   80.0000     78.14
$  13 2,4,6-Tribromophenol               330     8.483   8.473 (1.136)    107063   80.0000     82.04
$  14 Terphenyl-d14                      244    12.017  12.017 (0.871)    758812   80.0000     79.25
   15 N-Nitrosodimethylamine              74     1.706   1.706 (0.431)    236570   80.0000     80.86(q)
   16 Pyridine                            79     1.726   1.726 (0.437)    386806   80.0000     79.06(Q)
   23 Aniline                             93     3.654   3.654 (0.924)    583513   80.0000     81.44(Q)
   24 Phenol                              94     3.623   3.623 (0.916)    524930   80.0000     81.16(Q)
   26 Bis(2-chloroethyl)ether             93     3.716   3.716 (0.940)    362044   80.0000     79.83
   27 2-Chlorophenol                     128     3.768   3.768 (0.953)    398210   80.0000     80.21
   28 1,3-Dichlorobenzene                146     3.923   3.923 (0.992)    428311   80.0000     79.20
   29 1,4-Dichlorobenzene                146     3.975   3.975 (1.005)    452588   80.0000     80.04
   30 Benzyl Alcohol                     108     4.120   4.120 (1.042)    273768   80.0000     82.05
   31 1,2-Dichlorobenzene                146     4.172   4.172 (1.055)    415025   80.0000     79.84
   32 2-Methylphenol                     108     4.255   4.255 (1.076)    369704   80.0000     81.43
   33 2,2'-oxybis(1-Chloropropane)        45     4.296   4.297 (1.086)    576575   80.0000     79.88
   34 4-Methylphenol                     108     4.421   4.421 (1.118)    387704   80.0000     80.39
   36 Hexachloroethane                   117     4.504   4.504 (1.139)    153472   80.0000     79.72
   37 N-Nitrosodinpropylamine             70     4.442   4.442 (1.123)    265916   80.0000     82.78
   42 Nitrobenzene                        77     4.597   4.597 (0.855)    369479   80.0000     80.64
   44 Isophorone                          82     4.856   4.856 (0.904)    704520   80.0000     79.96
   45 2-Nitrophenol                      139     4.960   4.960 (0.923)    221628   80.0000     81.52
   46 2,4-Dimethyphenol                  107     5.011   5.012 (0.933)    385073   80.0000     79.72
```

10-3-10

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Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002E.D                    Page 2
Report Date: 03-Oct-2010 11:15

                                                                                AMOUNTS
                                    QUANT SIG                                CAL-AMT   ON-COL
Compounds                             MASS       RT    EXP RT   REL RT  RESPONSE  (  NG)    (  NG)
========================              ====     ====  ======== ======== ========  =======   =======
   47 Bis(2-chloroethoxy)methane        93     5.125    5.126 (0.954)    426158  80.0000     79.16
   49 2,4-Dichlorophenol               162     5.229    5.229 (0.973)    301897  80.0000     80.78
   50 Benzoic Acid                     122     5.125    5.115 (0.954)    232711  80.0000     87.04
   51 1,2,4-Trichlorobenzene           180     5.322    5.322 (0.990)    323096  80.0000     79.84
   52 Naphthalene                      128     5.395    5.395 (1.004)   1216155  80.0000     79.58
   54 4-Chloroaniline                  127     5.488    5.488 (1.021)    484619  80.0000     80.91
   57 Hexachlorobutadiene              225     5.613    5.613 (1.044)    159233  80.0000     80.41
   60 4-Chloro-3-Methylphenol          107     6.069    6.069 (1.129)    335335  80.0000     80.35
   63 2-Methylnaphthalene              142     6.203    6.203 (1.154)    781029  80.0000     81.36
   66 Hexachlorocyclopentadiene        237     6.483    6.483 (0.868)    181608  80.0000     81.05
   69 2,4,6-Trichlorophenol            196     6.576    6.576 (0.881)    194036  80.0000     80.98
   70 2,4,5-Trichlorphenol             196     6.628    6.628 (0.888)    211635  80.0000     81.99
   71 2-Chloronaphthalene              162     6.784    6.784 (0.908)    668023  80.0000     79.04
   73 2-Nitroaniline                    65     6.949    6.949 (0.931)    209144  80.0000     81.65
   76 Dimethylphthalate                163     7.229    7.229 (0.968)    787815  80.0000     80.96
   77 Acenaphthylene                   152     7.281    7.281 (0.975)   1190475  80.0000     80.88
   79 2,6-Dinitrotoluene               165     7.302    7.302 (0.978)    187961  80.0000     82.91
   80 3-Nitroaniline                   138     7.457    7.447 (0.999)    232287  80.0000     82.09
   81 Acenaphthene                     153     7.509    7.509 (1.006)    727612  80.0000     77.66
   82 2,4-Dinitrophenol                184     7.571    7.572 (1.014)    110384  80.0000     78.64
   83 Dibenzofuran                     168     7.706    7.706 (1.032)    991740  80.0000     79.76(q)
   84 4-Nitrophenol                    109     7.675    7.675 (1.028)    102888  80.0000     87.65(Q)
   86 2,4-Dinitrotoluene               165     7.768    7.768 (1.040)    246471  80.0000     82.83
   91 Fluorene                         166     8.131    8.131 (1.089)    834271  80.0000     81.03
   92 Diethylphthalate                 149     8.100    8.100 (1.085)    792071  80.0000     79.50
   93 4-Chlorophenyl-phenylether       204     8.151    8.152 (1.092)    340608  80.0000     79.56
   94 4-Nitroaniline                   138     8.224    8.214 (1.101)    235541  80.0000     83.97
   97 4,6-Dinitro-2-methylphenol       198     8.276    8.276 (0.880)    134784  80.0000     76.76
   98 N-Nitrosodiphenylamine           169     8.317    8.317 (0.884)    695826  93.7000     96.08
  100 Azobenzene                        77     8.348    8.348 (0.888)    765053  80.0000     81.43
  101 4-Bromophenyl-phenylether        248     8.794    8.794 (0.935)    187352  80.0000     80.33
  108 Hexachlorobenzene                284     8.981    8.981 (0.955)    207655  80.0000     79.72
  110 Pentachlorophenol                266     9.240    9.240 (0.982)    126397  80.0000     78.86
  114 Phenanthrene                     178     9.437    9.437 (1.003)   1188468  80.0000     78.92
  115 Anthracene                       178     9.509    9.499 (1.011)   1218608  80.0000     81.00
  118 Carbazole                        167     9.768    9.768 (1.039)   1118637  80.0000     81.39
  120 Di-n-Butylphthalate              149    10.462   10.463 (1.112)   1351860  80.0000     81.75
  126 Fluoranthene                     202    11.302   11.302 (1.202)   1107116  80.0000     82.05
  127 Benzidine                        184    11.571   11.571 (0.839)    799205  80.0000     81.12
  128 Pyrene                           202    11.665   11.665 (0.846)   1221015  80.0000     80.36
  134 3,3'-dimethylbenzidine           212    12.867   12.867 (0.933)    715866  80.0000     82.31
  136 Butylbenzylphthalate             149    12.991   12.991 (0.942)    598812  80.0000     78.63
  138 Benzo(a)Anthracene               228    13.758   13.758 (0.998)   1034950  80.0000     79.92
  139 Chrysene                         228    13.830   13.831 (1.003)   1040163  80.0000     78.52
  140 3,3'-Dichlorobenzidine           252    13.799   13.799 (1.001)    392335  80.0000     80.33
  141 bis(2-ethylhexyl)Phthalate       149    14.110   14.110 (1.023)    820296  80.0000     78.20
  142 Di-n-octylphthalate              149    15.167   15.167 (1.100)   1354893  80.0000     80.80
  144 Benzo(b)fluoranthene             252    15.582   15.582 (0.964)    920884  80.0000     84.26(Q)
  145 Benzo(k)fluoranthene             252    15.623   15.623 (0.967)   1102899  80.0000     78.61(q)
  147 Benzo(e)pyrene                   252    16.007   16.007 (0.990)    936566  80.0000     82.18
  148 Benzo(a)pyrene                   252    16.079   16.079 (0.995)   1039045  80.0000     83.86
  151 Indeno(1,2,3-cd)pyrene           276    17.799   17.800 (1.101)    811625  80.0000     80.99
  152 Dibenzo(a,h)anthracene           278    17.851   17.841 (1.105)    926841  80.0000     82.79
  153 Benzo(g,h,i)perylene             276    18.235   18.235 (1.128)    982275  80.0000     81.04
```

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                                                                              AMOUNTS
                                   QUANT SIG                                  CAL-AMT    ON-COL
Compounds                          MASS       RT   EXP RT   REL RT   RESPONSE (   NG)   (   NG)
=========================          ====       ==== ======== ======== ======== =======  =======
M 162 benzo b,k Fluoranthene Totals  252                             2023783  80.0000    81.09(A)
```

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
q - Qualifier signal exceeded ratio warning limit.

```
                         TestAmerica West Sacramento

                                  Method 8270C
Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002E.D
Lab Smp Id: HSL_080 ug/ml CS-5              Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 14:09
Operator  : KT                              Inst ID: sv5.i
Smp Info  : HSL_080 ug/ml CS-5;1;;5;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0311;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Meth Date : 02-Oct-2010 16:57 onishim       Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19               Cal File: AP90817D.D
Als bottle: 5                               Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon                          Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SV5


                                                                                      AMOUNTS
                                         QUANT SIG                                 CAL-AMT   ON-COL
Compounds                                  MASS      RT    EXP RT   REL RT  RESPONSE  (   NG)   (   NG)
==========================                 ====    ====  ======== ======== ========  =======   =======
*    1 1,4-Dichlorobenzene-d4               152    3.954    3.955 (1.000)    126989  40.0000           (q)
*    2 Naphthalene-d8                       136    5.374    5.374 (1.000)    553454  40.0000
*    3 Acenaphthene-d10                     164    7.468    7.468 (1.000)    300315  40.0000
*    4 Phenanthrene-d10                     188    9.405    9.405 (1.000)    477777  40.0000
*    5 Chrysene-d12                         240   13.789   13.779 (1.000)    486126  40.0000
*    6 Perylene-d12                         264   16.162   16.162 (1.000)    482782  40.0000
$    7 2-Fluorophenol                       112    2.742    2.732 (0.693)    364547  80.0000     77.78
$    8 Phenol-d5                             99    3.612    3.613 (0.914)    459352  80.0000     77.07
$    9 2-Chlorophenol-d4                    132    3.758    3.758 (0.950)    399981  80.0000     78.71
$   10 1,2-Dichlorobenzene-d4               152    4.162    4.162 (1.052)    252754  80.0000     79.68
$   11 Nitrobenzene-d5                       82    4.587    4.576 (0.853)    371989  80.0000     75.79
$   12 2-Fluorobiphenyl                     172    6.680    6.680 (0.895)    755916  80.0000     78.58
$   13 2,4,6-Tribromophenol                 330    8.483    8.473 (1.136)    107063  80.0000     90.29
$   14 Terphenyl-d14                        244   12.017   12.017 (0.871)    758812  80.0000     80.04
    15 N-Nitrosodimethylamine                74    1.706    1.706 (0.431)    236570  80.0000     76.48
    16 Pyridine                              79    1.726    1.726 (0.437)    386806  80.0000     75.04
    23 Aniline                               93    3.654    3.654 (0.924)    583513  80.0000     78.07(Q)
    24 Phenol                                94    3.623    3.623 (0.916)    524930  80.0000     82.81(Q)
    26 Bis(2-chloroethyl)ether               93    3.716    3.716 (0.940)    362044  80.0000     75.18
    27 2-Chlorophenol                       128    3.768    3.768 (0.953)    398210  80.0000     79.39
    28 1,3-Dichlorobenzene                  146    3.923    3.923 (0.992)    428311  80.0000     77.27
    29 1,4-Dichlorobenzene                  146    3.975    3.975 (1.005)    452588  80.0000     80.76
    30 Benzyl Alcohol                       108    4.120    4.120 (1.042)    273768  80.0000     79.43
    31 1,2-Dichlorobenzene                  146    4.172    4.172 (1.055)    415025  80.0000     78.14
    32 2-Methylphenol                       108    4.255    4.255 (1.076)    369704  80.0000     78.90
    33 2,2'-oxybis(1-Chloropropane)          45    4.296    4.297 (1.086)    576575  80.0000     64.50
    34 4-Methylphenol                       108    4.421    4.421 (1.118)    387704  80.0000     77.63
    36 Hexachloroethane                     117    4.504    4.504 (1.139)    153472  80.0000     77.62
    37 N-Nitrosodinpropylamine               70    4.442    4.442 (1.123)    265916  80.0000     76.06
    42 Nitrobenzene                          77    4.597    4.597 (0.855)    369479  80.0000     75.74
    44 Isophorone                            82    4.856    4.856 (0.904)    704520  80.0000     76.17
    45 2-Nitrophenol                        139    4.960    4.960 (0.923)    221628  80.0000     83.21
    46 2,4-Dimethyphenol                    107    5.011    5.012 (0.933)    385073  80.0000     77.86
```

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                                                                                AMOUNTS
                                     QUANT SIG                                  CAL-AMT   ON-COL
Compounds                              MASS        RT    EXP RT   REL RT  RESPONSE  (   NG)  (   NG)
=========================              ====      ====  ======== ======== ========  =======  =======
  47 Bis(2-chloroethoxy)methane          93     5.125    5.126 (0.954)    426158  80.0000    77.39
  49 2,4-Dichlorophenol                 162     5.229    5.229 (0.973)    301897  80.0000    82.94
  50 Benzoic Acid                       122     5.125    5.115 (0.954)    232711  80.0000    84.41
  51 1,2,4-Trichlorobenzene             180     5.322    5.322 (0.990)    323096  80.0000    81.88
  52 Naphthalene                        128     5.395    5.395 (1.004)   1216155  80.0000    78.94
  54 4-Chloroaniline                    127     5.488    5.488 (1.021)    484619  80.0000    79.97
  57 Hexachlorobutadiene                225     5.613    5.613 (1.044)    159233  80.0000    84.81
  60 4-Chloro-3-Methylphenol            107     6.069    6.069 (1.129)    335335  80.0000    80.06
  63 2-Methylnaphthalene                142     6.203    6.203 (1.154)    781029  80.0000    83.09
  66 Hexachlorocyclopentadiene          237     6.483    6.483 (0.868)    181608  80.0000    79.29
  69 2,4,6-Trichlorophenol              196     6.576    6.576 (0.881)    194036  80.0000    85.34
  70 2,4,5-Trichlorphenol               196     6.628    6.628 (0.888)    211635  80.0000    84.74
  71 2-Chloronaphthalene                162     6.784    6.784 (0.908)    668023  80.0000    79.34
  73 2-Nitroaniline                      65     6.949    6.949 (0.931)    209144  80.0000    74.17
  76 Dimethylphthalate                  163     7.229    7.229 (0.968)    787815  80.0000    81.01
  77 Acenaphthylene                     152     7.281    7.281 (0.975)   1190475  80.0000    80.88
  79 2,6-Dinitrotoluene                 165     7.302    7.302 (0.978)    187961  80.0000    86.31
  80 3-Nitroaniline                     138     7.457    7.447 (0.999)    232287  80.0000    80.44
  81 Acenaphthene                       153     7.509    7.509 (1.006)    727612  80.0000    77.58
  82 2,4-Dinitrophenol                  184     7.571    7.571 (1.014)    110384  80.0000    81.10
  83 Dibenzofuran                       168     7.706    7.706 (1.032)    991740  80.0000    80.04(q)
  84 4-Nitrophenol                      109     7.675    7.675 (1.028)    102888  80.0000    81.61(Q)
  86 2,4-Dinitrotoluene                 165     7.768    7.768 (1.040)    246471  80.0000    84.49
  91 Fluorene                           166     8.131    8.131 (1.089)    834271  80.0000    82.18
  92 Diethylphthalate                   149     8.100    8.100 (1.085)    792071  80.0000    77.92
  93 4-Chlorophenyl-phenylether         204     8.151    8.152 (1.092)    340608  80.0000    81.38
  94 4-Nitroaniline                     138     8.224    8.214 (1.101)    235541  80.0000    83.45
  97 4,6-Dinitro-2-methylphenol         198     8.276    8.276 (0.880)    134784  80.0000    75.96
  98 N-Nitrosodiphenylamine             169     8.317    8.317 (0.884)    695826  93.7000    93.46
 100 Azobenzene                          77     8.348    8.348 (0.888)    765053  80.0000    73.86
 101 4-Bromophenyl-phenylether          248     8.794    8.794 (0.935)    187352  80.0000    81.15
 108 Hexachlorobenzene                  284     8.981    8.981 (0.955)    207655  80.0000    83.28
 110 Pentachlorophenol                  266     9.240    9.240 (0.982)    126397  80.0000    84.45
 114 Phenanthrene                       178     9.437    9.437 (1.003)   1188468  80.0000    79.75
 115 Anthracene                         178     9.509    9.499 (1.011)   1218608  80.0000    81.25
 118 Carbazole                          167     9.768    9.768 (1.039)   1118637  80.0000    80.19
 120 Di-n-Butylphthalate                149    10.462   10.463 (1.112)   1351860  80.0000    80.14
 126 Fluoranthene                       202    11.302   11.302 (1.202)   1107116  80.0000    82.54
 127 Benzidine                          184    11.571   11.571 (0.839)    799205  80.0000    80.06
 128 Pyrene                             202    11.665   11.665 (0.846)   1221015  80.0000    80.33
 134 3,3'-dimethylbenzidine             212    12.867   12.867 (0.933)    715866  80.0000    83.56
 136 Butylbenzylphthalate               149    12.991   12.991 (0.942)    598812  80.0000    77.10
 138 Benzo(a)Anthracene                 228    13.758   13.758 (0.998)   1034950  80.0000    80.70
 139 Chrysene                           228    13.830   13.831 (1.003)   1040163  80.0000    78.06
 140 3,3'-Dichlorobenzidine             252    13.799   13.799 (1.001)    392335  80.0000    83.60
 141 bis(2-ethylhexyl)Phthalate         149    14.110   14.110 (1.023)    820296  80.0000    76.71
 142 Di-n-octylphthalate                149    15.167   15.167 (1.100)   1354893  80.0000    79.24
 144 Benzo(b)fluoranthene               252    15.582   15.582 (0.964)    920884  80.0000    80.44(Q)
 145 Benzo(k)fluoranthene               252    15.623   15.623 (0.967)   1102899  80.0000    82.44(q)
 147 Benzo(e)pyrene                     252    16.007   16.007 (0.990)    936566  80.0000    82.53
 148 Benzo(a)pyrene                     252    16.079   16.079 (0.995)   1039045  80.0000    83.39
 151 Indeno(1,2,3-cd)pyrene             276    17.799   17.800 (1.101)    811625  80.0000    73.62
 152 Dibenzo(a,h)anthracene             278    17.851   17.841 (1.105)    926841  80.0000    82.04
 153 Benzo(g,h,i)perylene               276    18.235   18.235 (1.128)    982275  80.0000    81.10
```

```
                                                                              AMOUNTS
                                      QUANT SIG                        CAL-AMT     ON-COL
Compounds                               MASS      RT   EXP RT  REL RT  RESPONSE  (   NG)    (   NG)
==========================              ====     ==== ======== ======== ========  =======    =======
M 162 benzo b,k Fluoranthene Totals      252                            2023783   80.0000     81.52(A)
```

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
q - Qualifier signal exceeded ratio warning limit.

Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002E.D

Report Date: 03-Oct-2010 11:15

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002E.D
Lab Smp Id: HSL_080 ug/ml CS-5
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0311;0;8270F.M

Calibration Date: 02-OCT-2010
Calibration Time: 13:44
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	122625	61313	245250	126989	3.56
2 Naphthalene-d8	530514	265257	1061028	553454	4.32
3 Acenaphthene-d10	282538	141269	565076	300315	6.29
4 Phenanthrene-d10	462722	231361	925444	477777	3.25
5 Chrysene-d12	435850	217925	871700	486126	11.54
6 Perylene-d12	422284	211142	844568	482782	14.33

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.95	-0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	-0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	-0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	-0.00
5 Chrysene-d12	13.78	13.28	14.28	13.79	0.07
6 Perylene-d12	16.16	15.66	16.66	16.16	-0.00

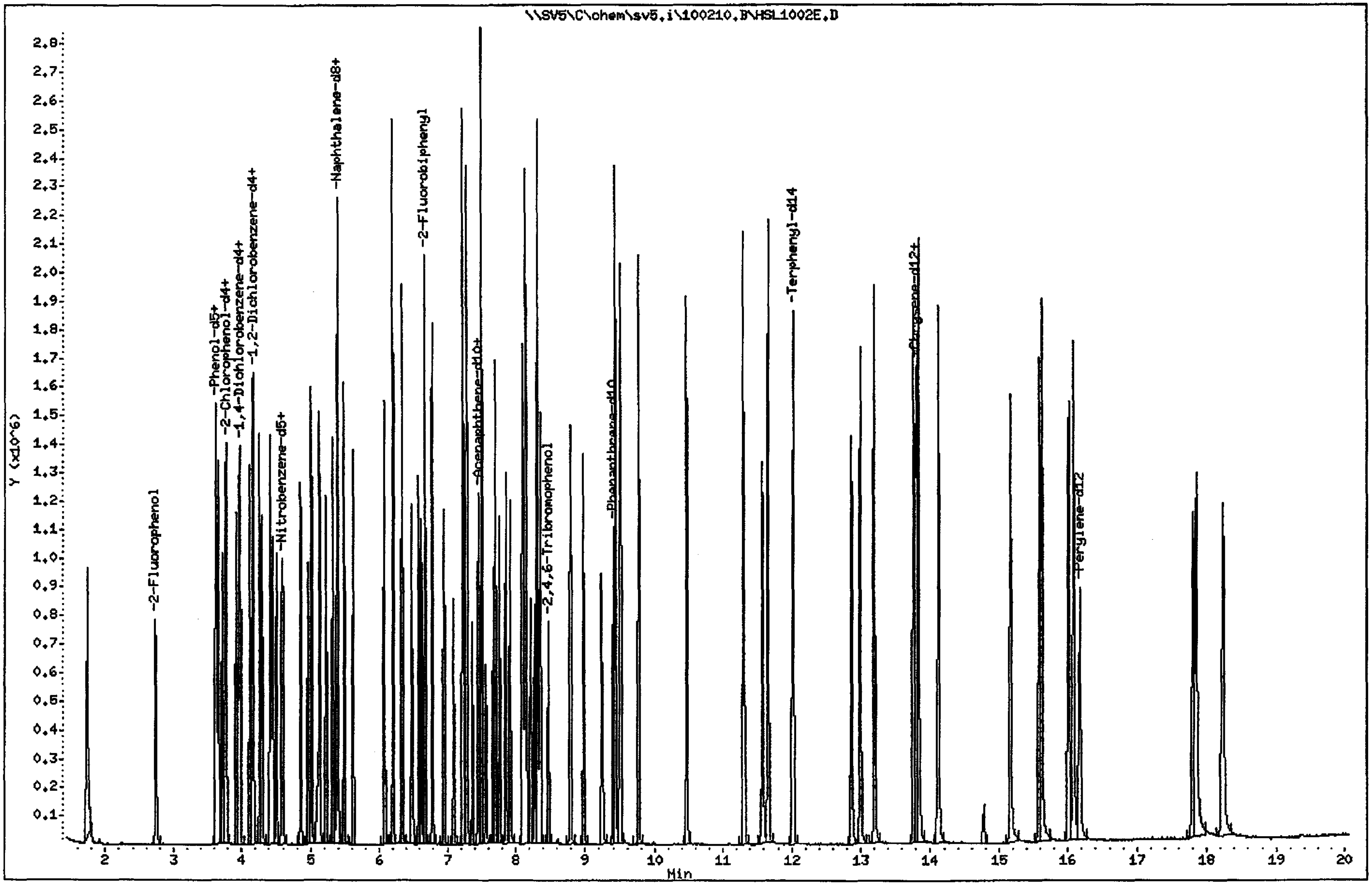
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002E.D
Date : 02-OCT-2010 14:09
Client ID: 8270F.M
Sample Info: HSL_080 ug/ml CS-5;1;;5;;;;4

Column phase:

Instrument: sv5.i

Operator: KT
Column diameter: 2.00



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                              TestAmerica West Sacramento

                                     Method 8270C
Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002F.D
Lab Smp Id: HSL_120 ug/ml CS-6           Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 14:35
Operator  : KT                           Inst ID: sv5.i
Smp Info  : HSL_120 ug/ml CS-6;1;;6;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0312;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\100210.B\8270f.m
Meth Date : 03-Oct-2010 11:09 onishim    Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19            Cal File: AP90817D.D
Als bottle: 6                            Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon                       Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SACP307UM


                                                                              AMOUNTS
                                  QUANT SIG                                CAL-AMT    ON-COL
Compounds                           MASS       RT    EXP RT   REL RT  RESPONSE  (    NG)   (    NG)
===========================         ====     ====  ======== ======== ========   =======    =======
*    1 1,4-Dichlorobenzene-d4        152     3.955    3.955 (1.000)    137751   40.0000          (Q)
*    2 Naphthalene-d8                136     5.374    5.374 (1.000)    591665   40.0000
*    3 Acenaphthene-d10              164     7.468    7.468 (1.000)    322596   40.0000
*    4 Phenanthrene-d10              188     9.406    9.405 (1.000)    515607   40.0000
*    5 Chrysene-d12                  240    13.789   13.779 (1.000)    509570   40.0000
*    6 Perylene-d12                  264    16.173   16.162 (1.000)    539588   40.0000
$    7 2-Fluorophenol                112     2.732    2.732 (0.691)    588028   120.000     121.1
$    8 Phenol-d5                      99     3.613    3.613 (0.914)    759824   120.000     124.4
$    9 2-Chlorophenol-d4             132     3.758    3.758 (0.950)    652805   120.000     121.7
$   10 1,2-Dichlorobenzene-d4        152     4.162    4.162 (1.052)    407247   120.000     120.0
$   11 Nitrobenzene-d5                82     4.587    4.576 (0.853)    623501   120.000     124.4
$   12 2-Fluorobiphenyl              172     6.680    6.680 (0.895)   1255441   120.000     120.8
$   13 2,4,6-Tribromophenol          330     8.483    8.473 (1.136)    179055   120.000     127.7
$   14 Terphenyl-d14                 244    12.017   12.017 (0.871)   1251844   120.000     124.7
    15 N-Nitrosodimethylamine         74     1.706    1.706 (0.431)    388111   120.000     122.3(q)
    16 Pyridine                       79     1.727    1.726 (0.437)    633334   120.000     119.3(Q)
    23 Aniline                        93     3.654    3.654 (0.924)    964533   120.000     124.1(Q)
    24 Phenol                         94     3.623    3.623 (0.916)    851671   120.000     121.4(Q)
    26 Bis(2-chloroethyl)ether        93     3.716    3.716 (0.940)    596323   120.000     121.2
    27 2-Chlorophenol                128     3.768    3.768 (0.953)    653244   120.000     121.3
    28 1,3-Dichlorobenzene           146     3.924    3.923 (0.992)    712032   120.000     121.4
    29 1,4-Dichlorobenzene           146     3.975    3.975 (1.005)    740915   120.000     120.8
    30 Benzyl Alcohol                108     4.120    4.120 (1.042)    450249   120.000     124.4
    31 1,2-Dichlorobenzene           146     4.172    4.172 (1.055)    679448   120.000     120.5
    32 2-Methylphenol                108     4.255    4.255 (1.076)    603987   120.000     122.6
    33 2,2'-oxybis(1-Chloropropane)   45     4.297    4.297 (1.086)    941514   120.000     120.2
    34 4-Methylphenol                108     4.421    4.421 (1.118)    644202   120.000     123.1
    36 Hexachloroethane              117     4.504    4.504 (1.139)    245394   120.000     117.5
    37 N-Nitrosodinpropylamine        70     4.452    4.442 (1.126)    428242   120.000     122.9
    42 Nitrobenzene                   77     4.607    4.597 (0.857)    593736   120.000     121.2
    44 Isophorone                     82     4.867    4.856 (0.906)   1179801   120.000     125.2
    45 2-Nitrophenol                 139     4.960    4.960 (0.923)    367467   120.000     126.4
    46 2,4-Dimethyphenol             107     5.012    5.012 (0.933)    638328   120.000     123.6
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10-3-10

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Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002F.D
Report Date: 03-Oct-2010 11:15

                                                                              AMOUNTS
                                     QUANT SIG                              CAL-AMT    ON-COL
Compounds                              MASS       RT    EXP RT   REL RT   RESPONSE   (   NG)    (   NG)
=========================            ====       ==== ======== ======== ========   =======    =======
   47 Bis(2-chloroethoxy)methane        93      5.126    5.126 (0.954)     707504   120.000      122.9
   49 2,4-Dichlorophenol               162      5.229    5.229 (0.973)     500185   120.000      125.2
   50 Benzoic Acid                     122      5.146    5.115 (0.958)     395333   120.000      138.3
   51 1,2,4-Trichlorobenzene           180      5.333    5.322 (0.992)     531764   120.000      122.9
   52 Naphthalene                      128      5.395    5.395 (1.004)    2020315   120.000      123.7
   54 4-Chloroaniline                  127      5.488    5.488 (1.021)     797064   120.000      124.5
   57 Hexachlorobutadiene              225      5.613    5.613 (1.044)     255231   120.000      120.6
   60 4-Chloro-3-Methylphenol          107      6.069    6.069 (1.129)     563840   120.000      126.4
   63 2-Methylnaphthalene              142      6.203    6.203 (1.154)    1263302   120.000      123.1
   66 Hexachlorocyclopentadiene        237      6.483    6.483 (0.868)     312226   120.000      129.7
   69 2,4,6-Trichlorophenol            196      6.587    6.576 (0.882)     331223   120.000      128.7
   70 2,4,5-Trichlorphenol             196      6.628    6.628 (0.888)     343374   120.000      123.8
   71 2-Chloronaphthalene              162      6.784    6.784 (0.908)    1107604   120.000      122.0
   73 2-Nitroaniline                    65      6.950    6.949 (0.931)     346408   120.000      125.9
   76 Dimethylphthalate                163      7.229    7.229 (0.968)    1286101   120.000      123.0
   77 Acenaphthylene                   152      7.281    7.281 (0.975)    1933504   120.000      122.3
   79 2,6-Dinitrotoluene               165      7.302    7.302 (0.978)     311050   120.000      127.7
   80 3-Nitroaniline                   138      7.457    7.447 (0.999)     382849   120.000      125.9
   81 Acenaphthene                     153      7.509    7.509 (1.006)    1207616   120.000      120.0
   82 2,4-Dinitrophenol                184      7.582    7.572 (1.015)     199007   120.000      124.7
   83 Dibenzofuran                     168      7.706    7.706 (1.032)    1630240   120.000      122.0(q)
   84 4-Nitrophenol                    109      7.675    7.675 (1.028)     161169   120.000      127.8(Q)
   86 2,4-Dinitrotoluene               165      7.768    7.768 (1.040)     409418   120.000      128.1
   91 Fluorene                         166      8.131    8.131 (1.089)    1333949   120.000      120.6
   92 Diethylphthalate                 149      8.110    8.100 (1.086)    1329206   120.000      124.2
   93 4-Chlorophenyl-phenylether       204      8.152    8.152 (1.092)     558370   120.000      121.4
   94 4-Nitroaniline                   138      8.224    8.214 (1.101)     378421   120.000      125.6
   97 4,6-Dinitro-2-methylphenol       198      8.286    8.276 (0.881)     236477   120.000      122.1
   98 N-Nitrosodiphenylamine           169      8.317    8.317 (0.884)    1123239   141.000      143.7
  100 Azobenzene                        77      8.359    8.348 (0.889)    1266722   120.000      124.9
  101 4-Bromophenyl-phenylether        248      8.794    8.794 (0.935)     318358   120.000      126.5
  108 Hexachlorobenzene                284      8.981    8.981 (0.955)     335728   120.000      119.4
  110 Pentachlorophenol                266      9.240    9.240 (0.982)     215360   120.000      122.2
  114 Phenanthrene                     178      9.437    9.437 (1.003)    1942962   120.000      119.6
  115 Anthracene                       178      9.509    9.499 (1.011)    2014183   120.000      124.0
  118 Carbazole                        167      9.768    9.768 (1.039)    1828217   120.000      123.3
  120 Di-n-Butylphthalate              149     10.463   10.463 (1.112)    2225048   120.000      124.7
  126 Fluoranthene                     202     11.302   11.302 (1.202)    1829791   120.000      125.6
  127 Benzidine                        184     11.582   11.571 (0.840)    1320429   120.000      127.8
  128 Pyrene                           202     11.665   11.665 (0.846)    1963825   120.000      123.3
  134 3,3'-dimethylbenzidine           212     12.877   12.867 (0.934)    1214012   120.000      133.2
  136 Butylbenzylphthalate             149     12.991   12.991 (0.942)     997218   120.000      124.9
  138 Benzo(a)Anthracene               228     13.758   13.758 (0.998)    1694281   120.000      124.8
  139 Chrysene                         228     13.831   13.831 (1.003)    1715841   120.000      123.6
  140 3,3'-Dichlorobenzidine           252     13.799   13.799 (1.001)     653016   120.000      127.5
  141 bis(2-ethylhexyl)Phthalate       149     14.110   14.110 (1.023)    1368794   120.000      124.5
  142 Di-n-octylphthalate              149     15.167   15.167 (1.100)    2256614   120.000      128.4
  144 Benzo(b)fluoranthene             252     15.592   15.582 (0.964)    1475217   120.000      120.8(Q)
  145 Benzo(k)fluoranthene             252     15.623   15.623 (0.966)    1935987   120.000      123.5(q)
  147 Benzo(e)pyrene                   252     16.007   16.007 (0.990)    1569049   120.000      123.2
  148 Benzo(a)pyrene                   252     16.079   16.079 (0.994)    1720343   120.000      124.2
  151 Indeno(1,2,3-cd)pyrene           276     17.810   17.800 (1.101)    1517263   120.000      135.5(M)
  152 Dibenzo(a,h)anthracene           278     17.851   17.841 (1.104)    1634040   120.000      130.6
  153 Benzo(g,h,i)perylene             276     18.245   18.235 (1.128)    1706123   120.000      125.9
```

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                                                                              AMOUNTS
                                          QUANT SIG                                      CAL-AMT    ON-COL
Compounds                                  MASS        RT    EXP RT   REL RT   RESPONSE  (   NG)    (   NG)
==========================                 ====       ====  ======== ======== ========  =======    =======
M 162 benzo b,k Fluoranthene Totals         252                                 3411204   120.000     122.3(A)
```

QC Flag Legend

```
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
q - Qualifier signal exceeded ratio warning limit.
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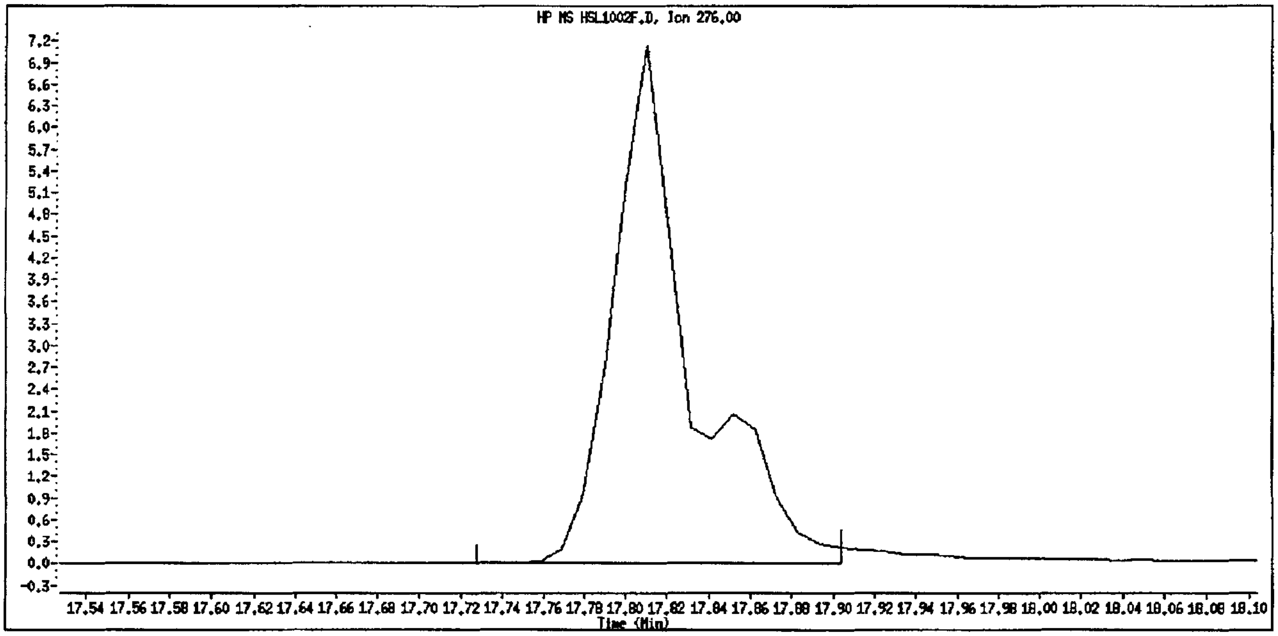
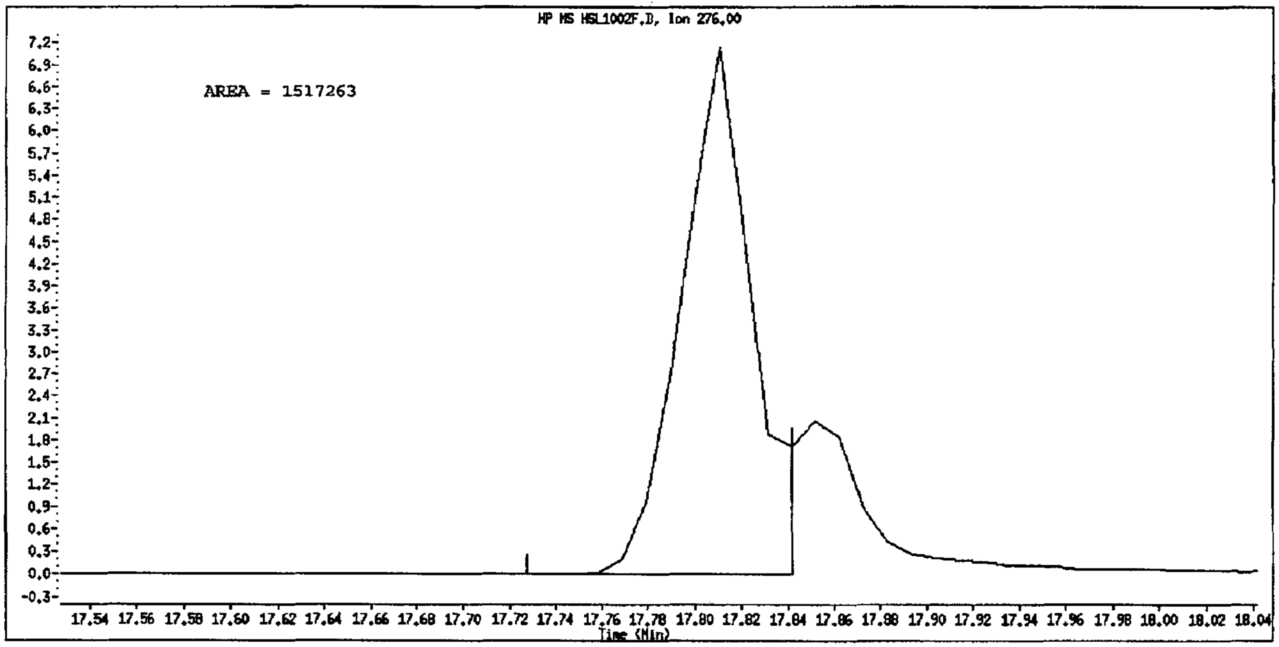
Data File Name: HSL1002F.D
Inj. Date and Time: 02-OCT-2010 14:35
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

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Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002F.D                    Page 1
Report Date: 02-Oct-2010 16:57

                                TestAmerica West Sacramento

                                     Method 8270C
Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002F.D
Lab Smp Id: HSL_120 ug/ml CS-6               Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 14:35
Operator  : KT                               Inst ID: sv5.i
Smp Info  : HSL_120 ug/ml CS-6;1;;6;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0312;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Meth Date : 02-Oct-2010 16:57 onishim    Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19            Cal File: AP90817D.D
Als bottle: 6                            Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon                       Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SV5


                                                                          AMOUNTS
                                 QUANT SIG                                CAL-AMT   ON-COL
Compounds                          MASS       RT    EXP RT   REL RT  RESPONSE  (   NG)   (   NG)
=========================          ====     ====  ========  ======== ========  =======   =======
*   1 1,4-Dichlorobenzene-d4        152    3.955   3.955 (1.000)    137751   40.0000          (Q)
*   2 Naphthalene-d8                136    5.374   5.374 (1.000)    591665   40.0000
*   3 Acenaphthene-d10              164    7.468   7.468 (1.000)    322596   40.0000
*   4 Phenanthrene-d10              188    9.406   9.405 (1.000)    515607   40.0000
*   5 Chrysene-d12                  240   13.789  13.779 (1.000)    509570   40.0000
*   6 Perylene-d12                  264   16.173  16.162 (1.000)    539588   40.0000
$   7 2-Fluorophenol                112    2.732   2.732 (0.691)    588028   120.000    115.7
$   8 Phenol-d5                      99    3.613   3.613 (0.914)    759824   120.000    117.5
$   9 2-Chlorophenol-d4             132    3.758   3.758 (0.950)    652805   120.000    118.4
$  10 1,2-Dichlorobenzene-d4        152    4.162   4.162 (1.052)    407247   120.000    118.4
$  11 Nitrobenzene-d5                82    4.587   4.576 (0.853)    623501   120.000    118.8
$  12 2-Fluorobiphenyl              172    6.680   6.680 (0.895)   1255441   120.000    121.5
$  13 2,4,6-Tribromophenol          330    8.483   8.473 (1.136)    179055   120.000    140.6
$  14 Terphenyl-d14                 244   12.017  12.017 (0.871)   1251844   120.000    126.0
   15 N-Nitrosodimethylamine         74    1.706   1.706 (0.431)    388111   120.000    115.7
   16 Pyridine                       79    1.727   1.726 (0.437)    633334   120.000    113.3
   23 Aniline                        93    3.654   3.654 (0.924)    964533   120.000    119.0(Q)
   24 Phenol                         94    3.623   3.623 (0.916)    851671   120.000    123.8(Q)
   26 Bis(2-chloroethyl)ether        93    3.716   3.716 (0.940)    596323   120.000    114.2
   27 2-Chlorophenol                128    3.768   3.768 (0.953)    653244   120.000    120.0
   28 1,3-Dichlorobenzene           146    3.924   3.923 (0.992)    712032   120.000    118.4
   29 1,4-Dichlorobenzene           146    3.975   3.975 (1.005)    740915   120.000    121.9
   30 Benzyl Alcohol                108    4.120   4.120 (1.042)    450249   120.000    120.4
   31 1,2-Dichlorobenzene           146    4.172   4.172 (1.055)    679448   120.000    117.9
   32 2-Methylphenol                108    4.255   4.255 (1.076)    603987   120.000    118.8
   33 2,2'-oxybis(1-Chloropropane)   45    4.297   4.297 (1.086)    941514   120.000    97.10
   34 4-Methylphenol                108    4.421   4.421 (1.118)    644202   120.000    118.9
   36 Hexachloroethane              117    4.504   4.504 (1.139)    245394   120.000    114.4
   37 N-Nitrosodinpropylamine        70    4.452   4.442 (1.126)    428242   120.000    112.9
   42 Nitrobenzene                   77    4.607   4.597 (0.857)    593736   120.000    113.8
   44 Isophorone                     82    4.867   4.856 (0.906)   1179801   120.000    119.3
   45 2-Nitrophenol                 139    4.960   4.960 (0.923)    367467   120.000    129.0
   46 2,4-Dimethyphenol             107    5.012   5.012 (0.933)    638328   120.000    120.7
```

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                                                                                   AMOUNTS
                                  QUANT SIG                                        CAL-AMT    ON-COL
Compounds                           MASS         RT     EXP RT    REL RT   RESPONSE  (  NG)    (  NG)
==========================          ====        ====   ======== ======== ========  =======   =======
   47 Bis(2-chloroethoxy)methane      93        5.126    5.126  (0.954)    707504  120.000     120.2
   49 2,4-Dichlorophenol             162        5.229    5.229  (0.973)    500185  120.000     128.5
   50 Benzoic Acid                   122        5.146    5.115  (0.958)    395333  120.000     134.1
   51 1,2,4-Trichlorobenzene         180        5.333    5.322  (0.992)    531764  120.000     126.0
   52 Naphthalene                    128        5.395    5.395  (1.004)   2020315  120.000     122.7
   54 4-Chloroaniline                127        5.488    5.488  (1.021)    797064  120.000     123.0
   57 Hexachlorobutadiene            225        5.613    5.613  (1.044)    255231  120.000     127.2
   60 4-Chloro-3-Methylphenol        107        6.069    6.069  (1.129)    563840  120.000     125.9
   63 2-Methylnaphthalene            142        6.203    6.203  (1.154)   1263302  120.000     125.7
   66 Hexachlorocyclopentadiene      237        6.483    6.483  (0.868)    312226  120.000     126.9
   69 2,4,6-Trichlorophenol          196        6.587    6.576  (0.882)    331223  120.000     135.6
   70 2,4,5-Trichlorphenol           196        6.628    6.628  (0.888)    343374  120.000     128.0
   71 2-Chloronaphthalene            162        6.784    6.784  (0.908)   1107604  120.000     122.5
   73 2-Nitroaniline                  65        6.950    6.949  (0.931)    346408  120.000     114.4
   76 Dimethylphthalate              163        7.229    7.229  (0.968)   1286101  120.000     123.1
   77 Acenaphthylene                 152        7.281    7.281  (0.975)   1933504  120.000     122.3
   79 2,6-Dinitrotoluene             165        7.302    7.302  (0.978)    311050  120.000     133.0
   80 3-Nitroaniline                 138        7.457    7.447  (0.999)    382849  120.000     123.4
   81 Acenaphthene                   153        7.509    7.509  (1.006)   1207616  120.000     119.9
   82 2,4-Dinitrophenol              184        7.582    7.571  (1.015)    199007  120.000     127.2
   83 Dibenzofuran                   168        7.706    7.706  (1.032)   1630240  120.000     122.5(q)
   84 4-Nitrophenol                  109        7.675    7.675  (1.028)    161169  120.000     119.0(Q)
   86 2,4-Dinitrotoluene             165        7.768    7.768  (1.040)    409418  120.000     130.6
   91 Fluorene                       166        8.131    8.131  (1.089)   1333949  120.000     122.3
   92 Diethylphthalate               149        8.110    8.100  (1.086)   1329206  120.000     121.7
   93 4-Chlorophenyl-phenylether     204        8.152    8.152  (1.092)    558370  120.000     124.2
   94 4-Nitroaniline                 138        8.224    8.214  (1.101)    378421  120.000     124.8
   97 4,6-Dinitro-2-methylphenol     198        8.286    8.276  (0.881)    236477  120.000     120.3
   98 N-Nitrosodiphenylamine         169        8.317    8.317  (0.884)   1123239  141.000     139.8
  100 Azobenzene                      77        8.359    8.348  (0.889)   1266722  120.000     113.3
  101 4-Bromophenyl-phenylether      248        8.794    8.794  (0.935)    318358  120.000     127.8
  108 Hexachlorobenzene              284        8.981    8.981  (0.955)    335728  120.000     124.8
  110 Pentachlorophenol              266        9.240    9.240  (0.982)    215360  120.000     133.3
  114 Phenanthrene                   178        9.437    9.437  (1.003)   1942962  120.000     120.8
  115 Anthracene                     178        9.509    9.499  (1.011)   2014183  120.000     124.4
  118 Carbazole                      167        9.768    9.768  (1.039)   1828217  120.000     121.4
  120 Di-n-Butylphthalate            149       10.463   10.463  (1.112)   2225048  120.000     122.2
  126 Fluoranthene                   202       11.302   11.302  (1.202)   1829791  120.000     126.4
  127 Benzidine                      184       11.582   11.571  (0.840)   1320429  120.000     126.2
  128 Pyrene                         202       11.665   11.665  (0.846)   1963825  120.000     123.2
  134 3,3'-dimethylbenzidine         212       12.877   12.867  (0.934)   1214012  120.000     135.2
  136 Butylbenzylphthalate           149       12.991   12.991  (0.942)    997218  120.000     122.5
  138 Benzo(a)Anthracene             228       13.758   13.758  (0.998)   1694281  120.000     126.0
  139 Chrysene                       228       13.831   13.831  (1.003)   1715841  120.000     122.8
  140 3,3'-Dichlorobenzidine         252       13.799   13.799  (1.001)    653016  120.000     132.7
  141 bis(2-ethylhexyl)Phthalate     149       14.110   14.110  (1.023)   1368794  120.000     122.1
  142 Di-n-octylphthalate            149       15.167   15.167  (1.100)   2256614  120.000     125.9
  144 Benzo(b)fluoranthene           252       15.592   15.582  (0.964)   1475217  120.000     115.3(Q)
  145 Benzo(k)fluoranthene           252       15.623   15.623  (0.966)   1935987  120.000     129.5(q)
  147 Benzo(e)pyrene                 252       16.007   16.007  (0.990)   1569049  120.000     123.7
  148 Benzo(a)pyrene                 252       16.079   16.079  (0.994)   1720343  120.000     123.5
  151 Indeno(1,2,3-cd)pyrene         276       17.810   17.800  (1.101)   1867193  120.000     151.5
  152 Dibenzo(a,h)anthracene         278       17.851   17.841  (1.104)   1634040  120.000     129.4
  153 Benzo(g,h,i)perylene           276       18.245   18.235  (1.128)   1706123  120.000     126.0
```

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                                                                                     AMOUNTS
                                           QUANT SIG                              CAL-AMT    ON-COL
Compounds                                  MASS       RT    EXP RT   REL RT   RESPONSE   (   NG)    (   NG)
=========================                  ====      ====  ======== ======== ========   =======    =======
M 162 benzo b,k Fluoranthene Totals         252                                3411204   120.000      122.9(A)
```

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
q - Qualifier signal exceeded ratio warning limit.

Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002F.D
Report Date: 03-Oct-2010 11:15

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002F.D
Lab Smp Id: HSL_120 ug/ml CS-6
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0312;0;8270F.M

Calibration Date: 02-OCT-2010
Calibration Time: 13:44
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	 UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	137751	12.34
2 Naphthalene-d8	530514	265257	1061028	591665	11.53
3 Acenaphthene-d10	282538	141269	565076	322596	14.18
4 Phenanthrene-d10	462722	231361	925444	515607	11.43
5 Chrysene-d12	435850	217925	871700	509570	16.91
6 Perylene-d12	422284	211142	844568	539588	27.78

COMPOUND	STANDARD	RT LIMIT LOWER	 UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.96	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.78	13.28	14.28	13.79	0.08
6 Perylene-d12	16.16	15.66	16.66	16.17	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

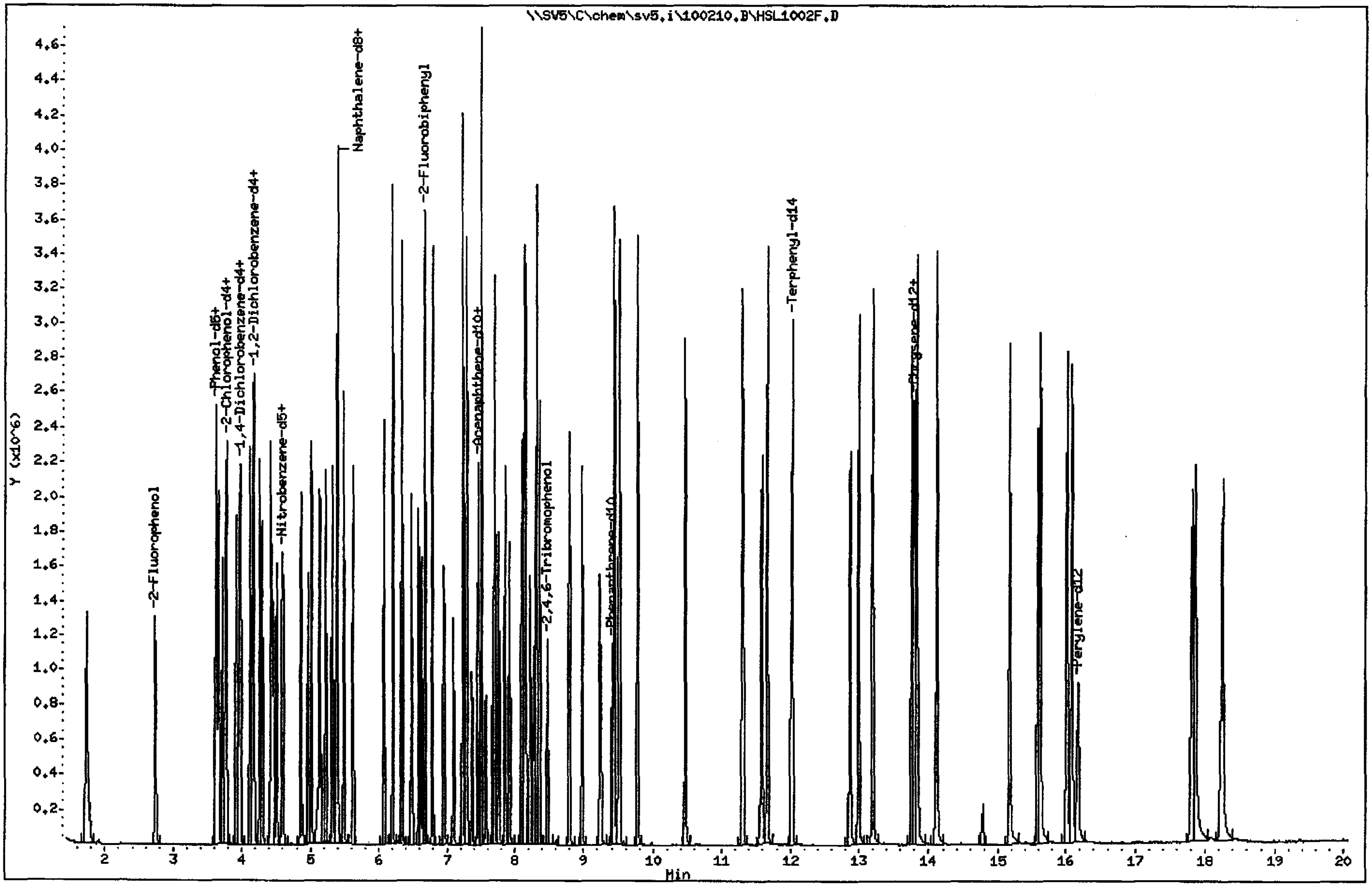
Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002F.D
Date : 02-OCT-2010 14:35
Client ID: 8270F.M
Sample Info: HSL_120 ug/ml CS-6;1;;6;;;;4

Column phase:

Page 5

Instrument: sv5.i

Operator: KT
Column diameter: 2.00



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                         TestAmerica West Sacramento

                                    Method 8270C
Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002G.D
Lab Smp Id: HSL_160 ug/ml CS-7          Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 15:00
Operator  : KT                          Inst ID: sv5.i
Smp Info  : HSL_160 ug/ml CS-7;1;;7;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0313;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\100210.B\8270f.m
Meth Date : 03-Oct-2010 11:09 onishim   Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19           Cal File: AP90817D.D
Als bottle: 7                           Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon                      Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SACP307UM

                                                                          AMOUNTS
                                     QUANT SIG                         CAL-AMT   ON-COL
Compounds                              MASS      RT   EXP RT  REL RT  RESPONSE  (   NG)  (   NG)
===========================           ====   ===== ======== ======== ========  =======  =======
*   1 1,4-Dichlorobenzene-d4            152   3.954   3.955 (1.000)   141009   40.0000      (Q)
*   2 Naphthalene-d8                    136   5.374   5.374 (1.000)   622461   40.0000
*   3 Acenaphthene-d10                  164   7.478   7.468 (1.000)   328259   40.0000
*   4 Phenanthrene-d10                  188   9.405   9.405 (1.000)   532284   40.0000
*   5 Chrysene-d12                      240  13.789  13.779 (1.000)   539557   40.0000
*   6 Perylene-d12                      264  16.172  16.162 (1.000)   560436   40.0000
$   7 2-Fluorophenol                    112   2.732   2.732 (0.691)   810154   160.000   163.0(A)
$   8 Phenol-d5                          99   3.623   3.613 (0.916)  1035724   160.000   165.7(A)
$   9 2-Chlorophenol-d4                 132   3.757   3.758 (0.950)   890073   160.000   162.2(A)
$  10 1,2-Dichlorobenzene-d4            152   4.162   4.162 (1.052)   557810   160.000   160.6(A)
$  11 Nitrobenzene-d5                    82   4.587   4.576 (0.853)   845796   160.000   160.4(A)
$  12 2-Fluorobiphenyl                  172   6.680   6.680 (0.893)  1707074   160.000   161.4(A)
$  13 2,4,6-Tribromophenol              330   8.483   8.473 (1.134)   241468   160.000   169.3(A)
$  14 Terphenyl-d14                     244  12.017  12.017 (0.871)  1728892   160.000   162.7(A)
   15 N-Nitrosodimethylamine             74   1.706   1.706 (0.431)   529253   160.000   162.9(Aq)
   16 Pyridine                           79   1.726   1.726 (0.437)   860850   160.000   158.4(Q)
   23 Aniline                            93   3.654   3.654 (0.924)  1318620   160.000   165.8(AQ)
   24 Phenol                             94   3.633   3.623 (0.919)  1166090   160.000   162.4(AQ)
   26 Bis(2-chloroethyl)ether            93   3.716   3.716 (0.940)   813702   160.000   161.6(A)
   27 2-Chlorophenol                    128   3.768   3.768 (0.953)   885754   160.000   160.7(A)
   28 1,3-Dichlorobenzene               146   3.923   3.923 (0.992)   972719   160.000   162.0(A)
   29 1,4-Dichlorobenzene               146   3.975   3.975 (1.005)  1023408   160.000   163.0(A)
   30 Benzyl Alcohol                    108   4.120   4.120 (1.042)   617653   160.000   166.7(A)
   31 1,2-Dichlorobenzene               146   4.172   4.172 (1.055)   928919   160.000   160.9(A)
   32 2-Methylphenol                    108   4.265   4.255 (1.079)   834149   160.000   165.4(A)
   33 2,2'-oxybis(1-Chloropropane)       45   4.296   4.297 (1.086)  1290345   160.000   161.0(A)
   34 4-Methylphenol                    108   4.421   4.421 (1.118)   895481   160.000   167.2(A)
   36 Hexachloroethane                  117   4.504   4.504 (1.139)   343605   160.000   160.7(A)
   37 N-Nitrosodinpropylamine            70   4.452   4.442 (1.126)   590870   160.000   165.6(A)
   42 Nitrobenzene                       77   4.607   4.597 (0.857)   844093   160.000   163.8(A)
   44 Isophorone                         82   4.866   4.856 (0.906)  1628636   160.000   164.4(A)
   45 2-Nitrophenol                     139   4.960   4.960 (0.923)   510613   160.000   167.0(A)
   46 2,4-Dimethyphenol                 107   5.022   5.012 (0.934)   890994   160.000   164.0(A)
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Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002H.D
Report Date: 03-Oct-2010 11:20

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i
Injection Date: 02-OCT-2010 16:11
Lab File ID: HSL1002H.D
Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010
Analysis Type:
Init. Cal. Times: 17:32 15:00
Lab Sample ID: HSL_050 ug/ml ICV
Quant Type: ISTD
Method: \\sv5\c\chem\sv5.i\100210.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 7 2-Fluorophenol	1.40992	1.41047	1.41047	0.010	0.03876	50.00000	Averaged
$ 8 Phenol-d5	1.77296	1.74907	1.74907	0.010	-1.34746	50.00000	Averaged
$ 9 2-Chlorophenol-d4	1.55698	1.55303	1.55303	0.010	-0.25385	50.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.98513	0.98502	0.98502	0.010	-0.01093	50.00000	Averaged
$ 11 Nitrobenzene-d5	0.33879	0.32706	0.32706	0.010	-3.46219	50.00000	Averaged
$ 12 2-Fluorobiphenyl	1.28852	1.25302	1.25302	0.010	-2.75502	50.00000	Averaged
$ 13 2,4,6-Tribromophenol	0.17381	0.17822	0.17822	0.010	2.53174	50.00000	Averaged
$ 14 Terphenyl-d14	0.78789	0.74054	0.74054	0.010	-6.00962	50.00000	Averaged
15 N-Nitrosodimethylamine	0.92154	0.91645	0.91645	0.010	-0.55265	50.00000	Averaged
16 Pyridine	1.54111	1.49084	1.49084	0.010	-3.26208	50.00000	Averaged
23 Aniline	2.25673	1.90520	1.90520	0.010	-15.57680	50.00000	Averaged
24 Phenol	2.03729	2.01343	2.01343	0.010	-1.17106	20.00000	Averaged
26 Bis(2-chloroethyl)ether	1.42859	1.41690	1.41690	0.010	-0.81844	50.00000	Averaged
27 2-Chlorophenol	1.56381	1.57626	1.57626	0.010	0.79611	50.00000	Averaged
28 1,3-Dichlorobenzene	1.70337	1.74104	1.74104	0.010	2.21094	50.00000	Averaged
29 1,4-Dichlorobenzene	1.78118	1.77637	1.77637	0.010	-0.26978	20.00000	Averaged
30 Benzyl Alcohol	1.05101	1.07153	1.07153	0.010	1.95228	50.00000	Averaged
31 1,2-Dichlorobenzene	1.63746	1.64144	1.64144	0.010	0.24267	50.00000	Averaged
32 2-Methylphenol	1.43012	1.41817	1.41817	0.010	-0.83592	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	2.27365	2.14153	2.14153	0.010	-5.81096	50.00000	Averaged
34 4-Methylphenol	1.51904	1.42403	1.42403	0.010	-6.25452	50.00000	Averaged
36 Hexachloroethane	0.60636	0.62081	0.62081	0.010	2.38271	50.00000	Averaged
37 N-Nitrosodinpropylamine	1.01180	0.99863	0.99863	0.050	-1.30217	50.00000	Averaged
42 Nitrobenzene	0.33116	0.32452	0.32452	0.010	-2.00546	50.00000	Averaged
44 Isophorone	0.63679	0.62370	0.62370	0.010	-2.05513	50.00000	Averaged
45 2-Nitrophenol	0.19648	0.20090	0.20090	0.010	2.25050	20.00000	Averaged
46 2,4-Dimethyphenol	0.34911	0.33078	0.33078	0.010	-5.25153	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.38908	0.37434	0.37434	0.010	-3.78942	50.00000	Averaged
49 2,4-Dichlorophenol	0.27010	0.26945	0.26945	0.010	-0.23923	20.00000	Averaged
50 Benzoic Acid	0.19324	0.20284	0.20284	0.010	4.96710	50.00000	Averaged
51 1,2,4-Trichlorobenzene	0.29246	0.28203	0.28203	0.010	-3.56320	50.00000	Averaged
52 Naphthalene	1.10443	1.07116	1.07116	0.010	-3.01217	50.00000	Averaged
54 4-Chloroaniline	0.43288	0.40664	0.40664	0.010	-6.06033	50.00000	Averaged
57 Hexachlorobutadiene	0.14313	0.14742	0.14742	0.010	2.99976	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30164	0.29442	0.29442	0.010	-2.39317	20.00000	Averaged
63 2-Methylnaphthalene	0.69378	0.71003	0.71003	0.010	2.34296	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.29846	0.32228	0.32228	0.050	7.98199	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.31913	0.32462	0.32462	0.010	1.71977	20.00000	Averaged
70 2,4,5-Trichlorphenol	0.34380	0.34503	0.34503	0.010	0.35814	50.00000	Averaged
71 2-Chloronaphthalene	1.12571	1.09768	1.09768	0.010	-2.48963	50.00000	Averaged
73 2-Nitroaniline	0.34119	0.32550	0.32550	0.010	-4.59608	50.00000	Averaged
76 Dimethylphthalate	1.29606	1.28355	1.28355	0.010	-0.96554	50.00000	Averaged

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Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002H.D
Report Date: 03-Oct-2010 11:20

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i   Injection Date: 02-OCT-2010 16:11
Lab File ID: HSL1002H.D   Init. Cal. Date(s): 17-AUG-2010   02-OCT-2010
Analysis Type: Init. Cal. Times: 17:32   15:00
Lab Sample ID: HSL_050 ug/ml ICV Quant Type: ISTD
Method: \\sv5\c\chem\sv5.i\100210.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
77 Acenaphthylene	1.96037	1.90194	1.90194	0.010	-2.98044	50.00000	Averaged
79 2,6-Dinitrotoluene	0.30197	0.30334	0.30334	0.010	0.45457	50.00000	Averaged
80 3-Nitroaniline	0.37691	0.37836	0.37836	0.010	0.38563	50.00000	Averaged
81 Acenaphthene	1.24787	1.19989	1.19989	0.010	-3.84461	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000	48.07731	0.16950	0.050	-3.84537	0.000e+000	Quadratic
83 Dibenzofuran	1.65612	1.64309	1.64309	0.010	-0.78683	50.00000	Averaged
84 4-Nitrophenol	0.15634	0.16205	0.16205	0.050	3.65012	50.00000	Averaged
86 2,4-Dinitrotoluene	0.39633	0.40639	0.40639	0.010	2.53669	50.00000	Averaged
91 Fluorene	1.37139	1.36209	1.36209	0.010	-0.67828	50.00000	Averaged
92 Diethylphthalate	1.32699	1.28445	1.28445	0.010	-3.20581	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.57019	0.56986	0.56986	0.010	-0.05862	50.00000	Averaged
94 4-Nitroaniline	0.37361	0.40608	0.40608	0.010	8.68956	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	48.62001	0.13800	0.010	-2.75999	0.000e+000	Linear
98 N-Nitrosodiphenylamine	0.60628	0.49086	0.49086	0.010	-19.03836	20.00000	Averaged
100 Azobenzene	0.78660	0.77322	0.77322	0.010	-1.70096	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19527	0.19536	0.19536	0.010	0.04546	50.00000	Averaged
108 Hexachlorobenzene	0.21807	0.22026	0.22026	0.010	1.00466	50.00000	Averaged
110 Pentachlorophenol	50.00000	50.72441	0.13218	0.010	1.44881	0.000e+000	Linear
114 Phenanthrene	1.26074	1.20864	1.20864	0.010	-4.13307	50.00000	Averaged
115 Anthracene	1.25955	1.22825	1.22825	0.010	-2.48429	50.00000	Averaged
118 Carbazole	1.15061	1.15083	1.15083	0.010	0.01942	50.00000	Averaged
120 Di-n-Butylphthalate	1.38442	1.39149	1.39149	0.010	0.51078	50.00000	Averaged
126 Fluoranthene	1.12969	1.19302	1.19302	0.010	5.60642	20.00000	Averaged
127 Benzidine	0.81067	0.30175	0.30175	0.010	-62.77740	50.00000	Averaged
128 Pyrene	1.25025	1.13023	1.13023	0.010	-9.59978	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.71564	0.26880	0.26880	0.010	-62.43954	50.00000	Averaged
136 Butylbenzylphthalate	0.62663	0.58836	0.58836	0.010	-6.10747	50.00000	Averaged
138 Benzo(a)Anthracene	1.06548	0.99285	0.99285	0.010	-6.81596	50.00000	Averaged
139 Chrysene	1.08994	1.04703	1.04703	0.010	-3.93621	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.40189	0.37691	0.37691	0.010	-6.21534	50.00000	Averaged
141 bis(2-ethylhexyl)Phthalate	0.86316	0.80149	0.80149	0.010	-7.14468	50.00000	Averaged
142 Di-n-octylphthalate	1.37975	1.27404	1.27404	0.010	-7.66156	20.00000	Averaged
144 Benzo(b)fluoranthene	0.90549	0.90498	0.90498	0.010	-0.05663	50.00000	Averaged
145 Benzo(k)fluoranthene	1.16236	1.22175	1.22175	0.010	5.10982	50.00000	Averaged
147 Benzo(e)pyrene	0.94425	0.98421	0.98421	0.010	4.23177	50.00000	Averaged
148 Benzo(a)pyrene	1.02655	0.95393	0.95393	0.010	-7.07365	20.00000	Averaged
151 Indeno(1,2,3-cd)pyrene	0.83029	0.81846	0.81846	0.010	-1.42489	50.00000	Averaged
152 Dibenzo(a,h)anthracene	0.92758	0.99090	0.99090	0.010	6.82730	50.00000	Averaged
153 Benzo(g,h,i)perylene	1.00427	1.08674	1.08674	0.010	8.21177	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06785	2.12673	2.12673	0.010	2.84748	50.00000	Averaged

See RI

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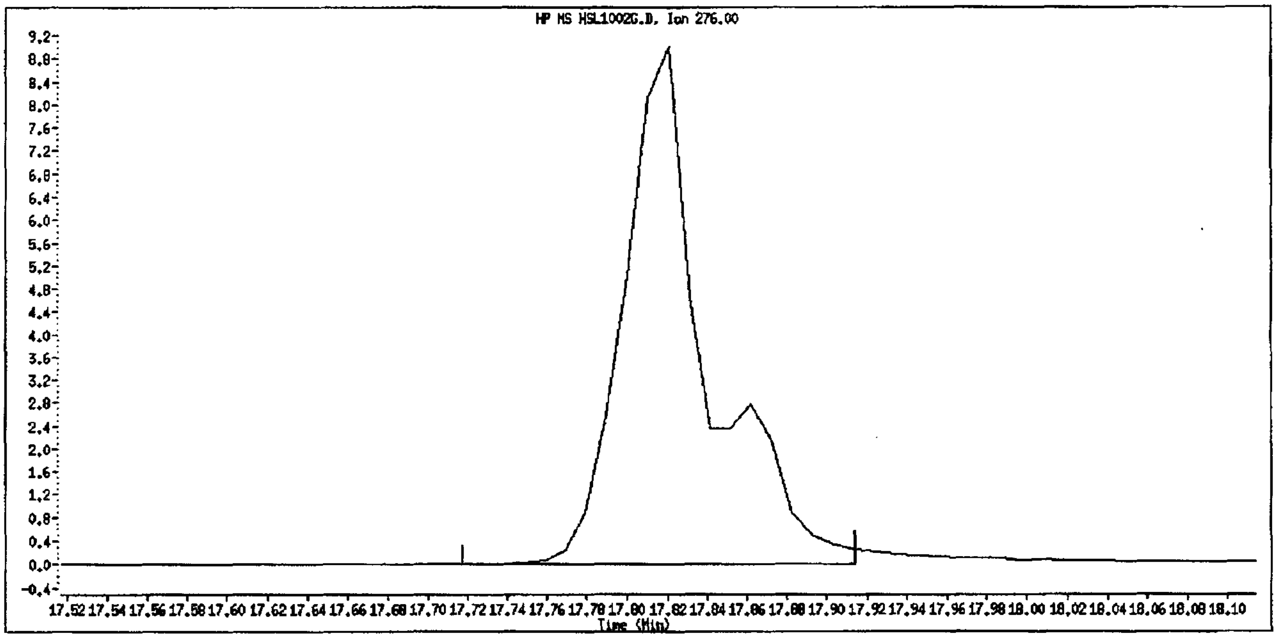
                                                                              AMOUNTS
                                        QUANT SIG                           CAL-AMT   ON-COL
Compounds                                 MASS      RT    EXP RT  REL RT  RESPONSE  (   NG)   (   NG)
=========================                 ====    ==== ======== ======== ========  =======   =======
   47 Bis(2-chloroethoxy)methane            93   5.136   5.126 (0.956)    959710   160.000    158.5
   49 2,4-Dichlorophenol                   162   5.229   5.229 (0.973)    692405   160.000    164.7(A)
   50 Benzoic Acid                         122   5.167   5.115 (0.961)    552251   160.000    183.6(A)
   51 1,2,4-Trichlorobenzene               180   5.333   5.322 (0.992)    724320   160.000    159.2
   52 Naphthalene                          128   5.395   5.395 (1.004)   2744968   160.000    159.7
   54 4-Chloroaniline                      127   5.488   5.488 (1.021)   1092223   160.000    162.1(A)
   57 Hexachlorobutadiene                  225   5.612   5.613 (1.044)    360358   160.000    161.8(A)
   60 4-Chloro-3-Methylphenol              107   6.068   6.069 (1.129)    767831   160.000    163.6(A)
   63 2-Methylnaphthalene                  142   6.203   6.203 (1.154)   1723402   160.000    159.6
   66 Hexachlorocyclopentadiene            237   6.483   6.483 (0.867)    435738   160.000    177.9(A)
   69 2,4,6-Trichlorophenol                196   6.587   6.576 (0.881)    441685   160.000    168.6(A)
   70 2,4,5-Trichlorphenol                 196   6.628   6.628 (0.886)    474468   160.000    168.2(A)
   71 2-Chloronaphthalene                  162   6.783   6.784 (0.907)   1511253   160.000    163.6(A)
   73 2-Nitroaniline                        65   6.960   6.949 (0.931)    476342   160.000    170.1(A)
   76 Dimethylphthalate                    163   7.229   7.229 (0.967)   1710061   160.000    160.8(A)
   77 Acenaphthylene                       152   7.291   7.281 (0.975)   2665048   160.000    165.6(A)
   79 2,6-Dinitrotoluene                   165   7.302   7.302 (0.976)    408436   160.000    164.8(A)
   80 3-Nitroaniline                       138   7.457   7.447 (0.997)    520002   160.000    168.1(A)
   81 Acenaphthene                         153   7.509   7.509 (1.004)   1647377   160.000    160.9(A)
   82 2,4-Dinitrophenol                    184   7.581   7.572 (1.014)    265655   160.000    157.7
   83 Dibenzofuran                         168   7.706   7.706 (1.030)   2246304   160.000    165.3(A)
   84 4-Nitrophenol                        109   7.685   7.675 (1.028)    228516   160.000    178.1(Aq)
   86 2,4-Dinitrotoluene                   165   7.778   7.768 (1.040)    566055   160.000    174.0(A)
   91 Fluorene                             166   8.141   8.131 (1.089)   1846653   160.000    164.1(A)
   92 Diethylphthalate                     149   8.110   8.100 (1.085)   1813127   160.000    166.5(A)
   93 4-Chlorophenyl-phenylether           204   8.151   8.152 (1.090)    757562   160.000    161.9(A)
   94 4-Nitroaniline                       138   8.224   8.214 (1.100)    531151   160.000    173.2(A)
   97 4,6-Dinitro-2-methylphenol           198   8.286   8.276 (0.881)    324244   160.000    160.7(A)
   98 N-Nitrosodiphenylamine               169   8.328   8.317 (0.885)   1542041   187.000    191.1(A)
  100 Azobenzene                            77   8.359   8.348 (0.889)   1646477   160.000    157.3
  101 4-Bromophenyl-phenylether            248   8.804   8.794 (0.936)    421894   160.000    162.4(A)
  108 Hexachlorobenzene                    284   8.980   8.981 (0.955)    465305   160.000    160.3(A)
  110 Pentachlorophenol                    266   9.250   9.240 (0.983)    293184   160.000    159.9
  114 Phenanthrene                         178   9.447   9.437 (1.004)   2695719   160.000    160.7(A)
  115 Anthracene                           178   9.509   9.499 (1.011)   2703105   160.000    161.3(A)
  118 Carbazole                            167   9.768   9.768 (1.039)   2479487   160.000    161.9(A)
  120 Di-n-Butylphthalate                  149  10.473  10.463 (1.113)   3164666   160.000    171.8(A)
  126 Fluoranthene                         202  11.312  11.302 (1.203)   2500453   160.000    166.3(A)
  127 Benzidine                            184  11.582  11.571 (0.840)   1864289   160.000    170.5(A)
  128 Pyrene                               202  11.664  11.665 (0.846)   2714930   160.000    161.0(A)
  134 3,3'-dimethylbenzidine               212  12.877  12.867 (0.934)   1724989   160.000    178.7(A)
  136 Butylbenzylphthalate                 149  12.991  12.991 (0.942)   1401117   160.000    165.8(A)
  138 Benzo(a)Anthracene                   228  13.768  13.758 (0.998)   2393908   160.000    166.6(A)
  139 Chrysene                             228  13.841  13.831 (1.004)   2422526   160.000    164.8(A)
  140 3,3'-Dichlorobenzidine               252  13.810  13.799 (1.002)    915413   160.000    168.9(A)
  141 bis(2-ethylhexyl)Phthalate           149  14.110  14.110 (1.023)   1906885   160.000    163.8(A)
  142 Di-n-octylphthalate                  149  15.167  15.167 (1.100)   3253965   160.000    174.8(A)
  144 Benzo(b)fluoranthene                 252  15.592  15.582 (0.964)   2299398   160.000    181.2(AQ)
  145 Benzo(k)fluoranthene                 252  15.634  15.623 (0.967)   2475935   160.000    152.0(q)
  147 Benzo(e)pyrene                       252  16.017  16.007 (0.990)   2178628   160.000    164.7(A)
  148 Benzo(a)pyrene                       252  16.089  16.079 (0.995)   2387962   160.000    166.0(A)
  151 Indeno(1,2,3-cd)pyrene               276  17.820  17.800 (1.102)   2196805   160.000    188.8(AM)
  152 Dibenzo(a,h)anthracene               278  17.862  17.841 (1.104)   2250528   160.000    173.2(A)
  153 Benzo(g,h,i)perylene                 276  18.255  18.235 (1.129)   2332007   160.000    165.7(A)
```

```
                                                                                         AMOUNTS
                                      QUANT SIG                                       CAL-AMT     ON-COL
Compounds                               MASS         RT    EXP RT    REL RT  RESPONSE  (   NG)    (   NG)
=========================               ====       ====  ========  ========  ========  =======    =======
M 162 benzo b,k Fluoranthene Totals      252                                  4775333  160.000    164.8(A)
```

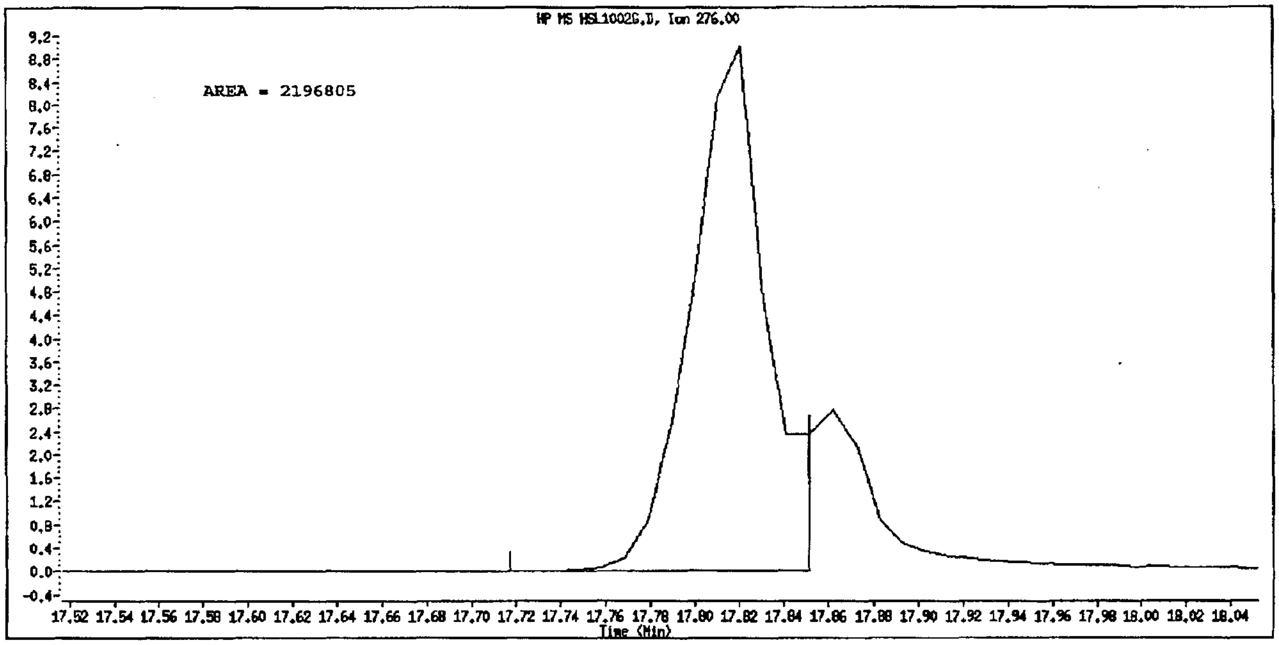
QC Flag Legend

```
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
q - Qualifier signal exceeded ratio warning limit.
```

Data File Name: HSL1002G.D
Inj. Date and Time: 02-OCT-2010 15:00
Instrument ID: sv5.i
Client ID: 8270F.M
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truongk
Manual Integration Reason: Poor Chromatography

```
Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002G.D                    Page 1
Report Date: 02-Oct-2010 16:57


                            TestAmerica West Sacramento

                                    Method 8270C
Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002G.D
Lab Smp Id: HSL_160 ug/ml CS-7            Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 15:00
Operator  : KT                             Inst ID: sv5.i
Smp Info  : HSL_160 ug/ml CS-7;1;;7;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0313;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Meth Date : 02-Oct-2010 16:57 onishim     Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19              Cal File: AP90817D.D
Als bottle: 7                              Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon                         Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SV5


                                                                              AMOUNTS
                                   QUANT SIG                                  CAL-AMT    ON-COL
Compounds                            MASS       RT    EXP RT   REL RT  RESPONSE  (  NG)    (  NG)
==========================           ====     ====  ======== ======== ========  =======   =======
*   1 1,4-Dichlorobenzene-d4          152     3.954    3.955 (1.000)    141009  40.0000        (Q)
*   2 Naphthalene-d8                  136     5.374    5.374 (1.000)    622461  40.0000
*   3 Acenaphthene-d10                164     7.478    7.468 (1.000)    328259  40.0000
*   4 Phenanthrene-d10                188     9.405    9.405 (1.000)    532284  40.0000
*   5 Chrysene-d12                    240    13.789   13.779 (1.000)    539557  40.0000
*   6 Perylene-d12                    264    16.172   16.162 (1.000)    560436  40.0000
$   7 2-Fluorophenol                  112     2.732    2.732 (0.691)    810154  160.000    155.7
$   8 Phenol-d5                        99     3.623    3.613 (0.916)   1035724  160.000    156.5
$   9 2-Chlorophenol-d4               132     3.757    3.758 (0.950)    890073  160.000    157.7
$  10 1,2-Dichlorobenzene-d4          152     4.162    4.162 (1.052)    557810  160.000    158.4
$  11 Nitrobenzene-d5                  82     4.587    4.576 (0.853)    845796  160.000    153.2
$  12 2-Fluorobiphenyl                172     6.680    6.680 (0.893)   1707074  160.000    162.4(A)
$  13 2,4,6-Tribromophenol            330     8.483    8.473 (1.134)    241468  160.000    186.3(A)
$  14 Terphenyl-d14                   244    12.017   12.017 (0.871)   1728892  160.000    164.3(A)
   15 N-Nitrosodimethylamine           74     1.706    1.706 (0.431)    529253  160.000    154.1
   16 Pyridine                         79     1.726    1.726 (0.437)    860850  160.000    150.4
   23 Aniline                          93     3.654    3.654 (0.924)   1318620  160.000    158.9(Q)
   24 Phenol                           94     3.633    3.623 (0.919)   1166090  160.000    165.7(AQ)
   26 Bis(2-chloroethyl)ether          93     3.716    3.716 (0.940)    813702  160.000    152.2
   27 2-Chlorophenol                  128     3.768    3.768 (0.953)    885754  160.000    159.0
   28 1,3-Dichlorobenzene             146     3.923    3.923 (0.992)    972719  160.000    158.0
   29 1,4-Dichlorobenzene             146     3.975    3.975 (1.005)   1023408  160.000    164.5(A)
   30 Benzyl Alcohol                  108     4.120    4.120 (1.042)    617653  160.000    161.4(A)
   31 1,2-Dichlorobenzene             146     4.172    4.172 (1.055)    928919  160.000    157.5
   32 2-Methylphenol                  108     4.265    4.255 (1.079)    834149  160.000    160.3(A)
   33 2,2'-oxybis(1-Chloropropane)     45     4.296    4.297 (1.086)   1290345  160.000    130.0
   34 4-Methylphenol                  108     4.421    4.421 (1.118)    895481  160.000    161.5(A)
   36 Hexachloroethane                117     4.504    4.504 (1.139)    343605  160.000    156.5
   37 N-Nitrosodinpropylamine          70     4.452    4.442 (1.126)    590870  160.000    152.2
   42 Nitrobenzene                     77     4.607    4.597 (0.857)    844093  160.000    153.8
   44 Isophorone                       82     4.866    4.856 (0.906)   1628636  160.000    156.6
   45 2-Nitrophenol                   139     4.960    4.960 (0.923)    510613  160.000    170.5(A)
   46 2,4-Dimethyphenol               107     5.022    5.012 (0.934)    890994  160.000    160.2(A)
```

	QUANT SIG					AMOUNTS	
						CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
47 Bis(2-chloroethoxy)methane	93	5.136	5.126	(0.956)	959710	160.000	155.0
49 2,4-Dichlorophenol	162	5.229	5.229	(0.973)	692405	160.000	169.1(A)
50 Benzoic Acid	122	5.167	5.115	(0.961)	552251	160.000	178.1(A)
51 1,2,4-Trichlorobenzene	180	5.333	5.322	(0.992)	724320	160.000	163.2(A)
52 Naphthalene	128	5.395	5.395	(1.004)	2744968	160.000	158.4
54 4-Chloroaniline	127	5.488	5.488	(1.021)	1092223	160.000	160.2(A)
57 Hexachlorobutadiene	225	5.612	5.613	(1.044)	360358	160.000	170.6(A)
60 4-Chloro-3-Methylphenol	107	6.068	6.069	(1.129)	767831	160.000	163.0(A)
63 2-Methylnaphthalene	142	6.203	6.203	(1.154)	1723402	160.000	163.0(A)
66 Hexachlorocyclopentadiene	237	6.483	6.483	(0.867)	435738	160.000	174.0(A)
69 2,4,6-Trichlorophenol	196	6.587	6.576	(0.881)	441685	160.000	177.7(A)
70 2,4,5-Trichlorphenol	196	6.628	6.628	(0.886)	474468	160.000	173.8(A)
71 2-Chloronaphthalene	162	6.783	6.784	(0.907)	1511253	160.000	164.2(A)
73 2-Nitroaniline	65	6.960	6.949	(0.931)	476342	160.000	154.5
76 Dimethylphthalate	163	7.229	7.229	(0.967)	1710061	160.000	160.9(A)
77 Acenaphthylene	152	7.291	7.281	(0.975)	2665048	160.000	165.6(A)
79 2,6-Dinitrotoluene	165	7.302	7.302	(0.976)	408436	160.000	171.6(A)
80 3-Nitroaniline	138	7.457	7.447	(0.997)	520002	160.000	164.8(A)
81 Acenaphthene	153	7.509	7.509	(1.004)	1647377	160.000	160.7(A)
82 2,4-Dinitrophenol	184	7.581	7.571	(1.014)	265655	160.000	158.9
83 Dibenzofuran	168	7.706	7.706	(1.030)	2246304	160.000	165.8(A)
84 4-Nitrophenol	109	7.685	7.675	(1.028)	228516	160.000	165.8(Aq)
86 2,4-Dinitrotoluene	165	7.778	7.768	(1.040)	566055	160.000	177.5(A)
91 Fluorene	166	8.141	8.131	(1.089)	1846653	160.000	166.4(A)
92 Diethylphthalate	149	8.110	8.100	(1.085)	1813127	160.000	163.2(A)
93 4-Chlorophenyl-phenylether	204	8.151	8.152	(1.090)	757562	160.000	165.6(A)
94 4-Nitroaniline	138	8.224	8.214	(1.100)	531151	160.000	172.2(A)
97 4,6-Dinitro-2-methylphenol	198	8.286	8.276	(0.881)	324244	160.000	158.0
98 N-Nitrosodiphenylamine	169	8.328	8.317	(0.885)	1542041	187.000	185.9(A)
100 Azobenzene	77	8.359	8.348	(0.889)	1646477	160.000	142.7
101 4-Bromophenyl-phenylether	248	8.804	8.794	(0.936)	421894	160.000	164.0(A)
108 Hexachlorobenzene	284	8.980	8.981	(0.955)	465305	160.000	167.5(A)
110 Pentachlorophenol	266	9.250	9.240	(0.983)	293184	160.000	175.8(A)
114 Phenanthrene	178	9.447	9.437	(1.004)	2695719	160.000	162.4(A)
115 Anthracene	178	9.509	9.499	(1.011)	2703105	160.000	161.8(A)
118 Carbazole	167	9.768	9.768	(1.039)	2479487	160.000	159.5
120 Di-n-Butylphthalate	149	10.473	10.463	(1.113)	3164666	160.000	168.4(A)
126 Fluoranthene	202	11.312	11.302	(1.203)	2500453	160.000	167.3(A)
127 Benzidine	184	11.582	11.571	(0.840)	1864289	160.000	168.3(A)
128 Pyrene	202	11.664	11.665	(0.846)	2714930	160.000	160.9(A)
134 3,3'-dimethylbenzidine	212	12.877	12.867	(0.934)	1724989	160.000	181.4(A)
136 Butylbenzylphthalate	149	12.991	12.991	(0.942)	1401117	160.000	162.5(A)
138 Benzo(a)Anthracene	228	13.768	13.758	(0.998)	2393908	160.000	168.2(A)
139 Chrysene	228	13.841	13.831	(1.004)	2422526	160.000	163.8(A)
140 3,3'-Dichlorobenzidine	252	13.810	13.799	(1.002)	915413	160.000	175.7(A)
141 bis(2-ethylhexyl)Phthalate	149	14.110	14.110	(1.023)	1906885	160.000	160.7(A)
142 Di-n-octylphthalate	149	15.167	15.167	(1.100)	3253965	160.000	171.5(A)
144 Benzo(b)fluoranthene	252	15.592	15.582	(0.964)	2299398	160.000	173.0(AQ)
145 Benzo(k)fluoranthene	252	15.634	15.623	(0.967)	2475935	160.000	159.4(q)
147 Benzo(e)pyrene	252	16.017	16.007	(0.990)	2178628	160.000	165.4(A)
148 Benzo(a)pyrene	252	16.089	16.079	(0.995)	2387962	160.000	165.1(A)
151 Indeno(1,2,3-cd)pyrene	276	17.820	17.800	(1.102)	2617878	160.000	204.6(A)
152 Dibenzo(a,h)anthracene	278	17.862	17.841	(1.104)	2250528	160.000	171.6(A)
153 Benzo(g,h,i)perylene	276	18.255	18.235	(1.129)	2332007	160.000	165.9(A)

```
                                                                                         AMOUNTS
                                         QUANT SIG                                     CAL-AMT    ON-COL
Compounds                                  MASS       RT   EXP RT   REL RT  RESPONSE   (  NG)     (  NG)
=========================                  ====     ==== ======== ======== ========   =======    =======
M 162 benzo b,k Fluoranthene Totals        252                               4775333   160.000     165.7(A)
```

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
q - Qualifier signal exceeded ratio warning limit.

Report Date: 03-Oct-2010 11:16

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002G.D
Lab Smp Id: HSL_160 ug/ml CS-7
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0313;0;8270F.M

Calibration Date: 02-OCT-2010
Calibration Time: 13:44
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	 UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	141009	14.99
2 Naphthalene-d8	530514	265257	1061028	622461	17.33
3 Acenaphthene-d10	282538	141269	565076	328259	16.18
4 Phenanthrene-d10	462722	231361	925444	532284	15.03
5 Chrysene-d12	435850	217925	871700	539557	23.79
6 Perylene-d12	422284	211142	844568	560436	32.72

COMPOUND	STANDARD	RT LIMIT LOWER	 UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.96	3.46	4.46	3.95	-0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	-0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.48	0.14
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	-0.00
5 Chrysene-d12	13.78	13.28	14.28	13.79	0.07
6 Perylene-d12	16.16	15.66	16.66	16.17	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002G.D

Page 5

Date : 02-OCT-2010 15:00

Client ID: 8270F.M

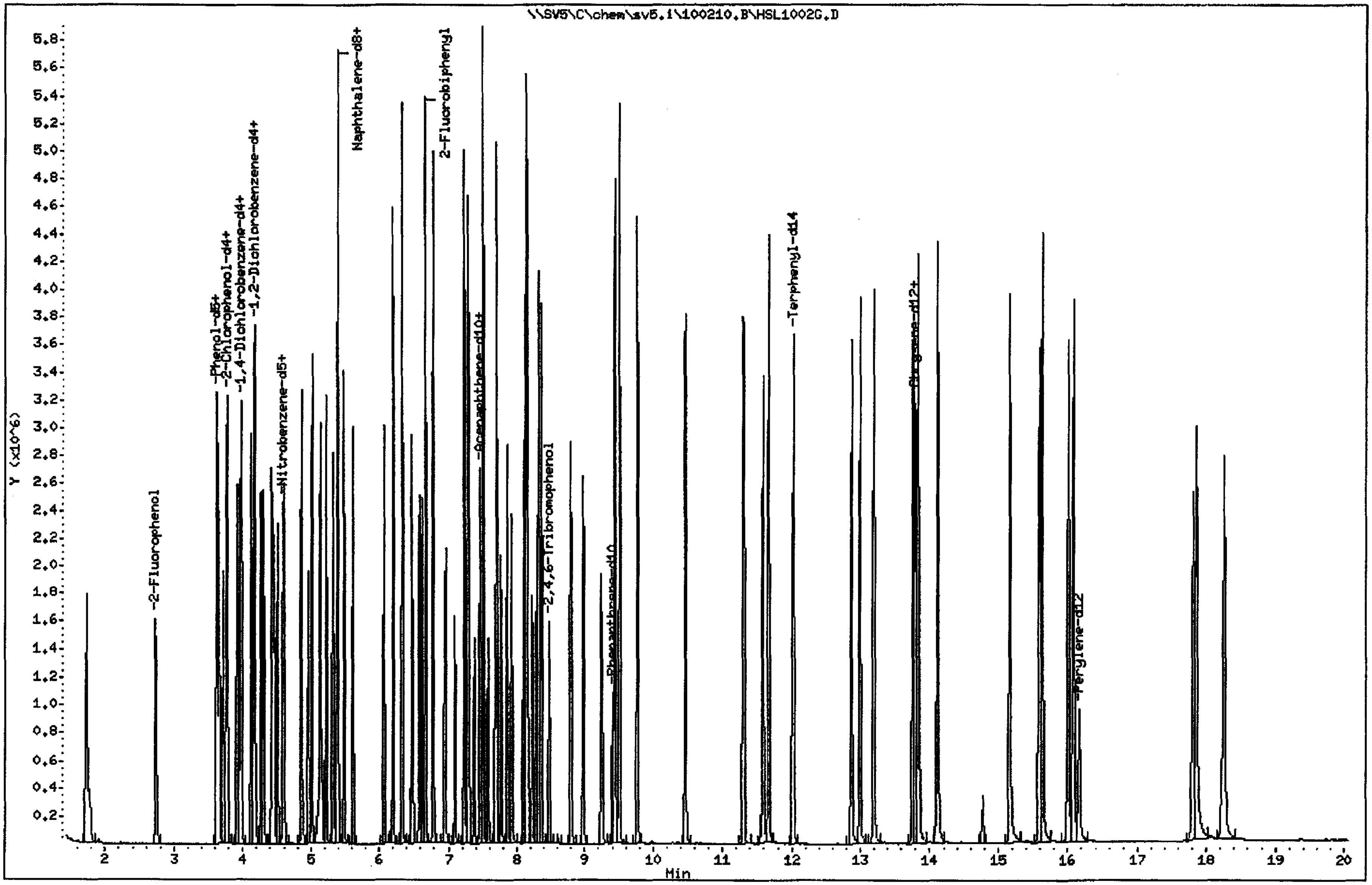
Instrument: sv5.i

Sample Info: HSL_160 ug/ml CS-7;1;;7;;;;4

Operator: KT

Column phase:

Column diameter: 2.00



TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i
Injection Date: 02-OCT-2010 16:36
Lab File ID: HSL1002H1.D
Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010
Analysis Type:
Init. Cal. Times: 17:32 15:00
Lab Sample ID: Benzidines ICV 50ug
Quant Type: ISTD
Method: \\sv5\c\chem\sv5.i\100210.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
127 Benzidine	0.81067	0.92336	0.92336	0.010	13.89989	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.71564	0.78974	0.78974	0.010	10.35398	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.40189	0.42433	0.42433	0.010	5.58428	50.00000	Averaged

10-3-10

```
Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002H.D                    Page 1
Report Date: 03-Oct-2010 11:20


                             TestAmerica West Sacramento

                                   Method 8270C
Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002H.D
Lab Smp Id: HSL_050 ug/ml ICV            Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 16:11
Operator  : KT                           Inst ID: sv5.i
Smp Info  : HSL_050 ug/ml ICV;2;;4;;;;4
Misc Info : 3;;0;1_8270STD.SUB;10MSSV0314;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\100210.B\8270f.m
Meth Date : 03-Oct-2010 11:20 sv5.i      Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19            Cal File: AP90817D.D
Als bottle: 8                            Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon                       Compound Sublist: 1_8270STD.SUB
Target Version:  4.14
Processing Host: SACP307UM


                                                                                     AMOUNTS
                                      QUANT SIG                                      CAL-AMT    ON-COL
Compounds                               MASS        RT    EXP RT   REL RT  RESPONSE  (   NG)    (   NG)
========================                ====      ====  ========  ======== ========  =======    =======
*  1 1,4-Dichlorobenzene-d4              152     3.954    3.954  (1.000)     98364   40.0000
*  2 Naphthalene-d8                      136     5.374    5.374  (1.000)    431655   40.0000
*  3 Acenaphthene-d10                    164     7.468    7.468  (1.000)    236662   40.0000
*  4 Phenanthrene-d10                    188     9.405    9.405  (1.000)    380734   40.0000
*  5 Chrysene-d12                        240    13.789   13.789  (1.000)    421719   40.0000
*  6 Perylene-d12                        264    16.173   16.173  (1.000)    419419   40.0000
$  7 2-Fluorophenol                      112     2.732    2.732  (0.691)    173424   50.0000      50.02
$  8 Phenol-d5                            99     3.613    3.613  (0.914)    215057   50.0000      49.33
$  9 2-Chlorophenol-d4                   132     3.747    3.747  (0.948)    190953   50.0000      49.87
$ 10 1,2-Dichlorobenzene-d4              152     4.151    4.151  (1.050)    121113   50.0000      49.99
$ 11 Nitrobenzene-d5                      82     4.576    4.576  (0.852)    176474   50.0000      48.27
$ 12 2-Fluorobiphenyl                    172     6.680    6.680  (0.895)    370679   50.0000      48.62
$ 13 2,4,6-Tribromophenol                330     8.483    8.483  (1.136)     52721   50.0000      51.26
$ 14 Terphenyl-d14                       244    12.017   12.017  (0.871)    390377   50.0000      47.00
  15 N-Nitrosodimethylamine               74     1.706    1.706  (0.431)    112682   50.0000      49.72(Q)
  16 Pyridine                             79     1.726    1.726  (0.437)    183306   50.0000      48.37
  23 Aniline                              93     3.654    3.654  (0.924)    234254   50.0000      42.21
  24 Phenol                               94     3.623    3.623  (0.916)    247561   50.0000      49.41(Q)
  26 Bis(2-chloroethyl)ether              93     3.716    3.716  (0.940)    174215   50.0000      49.59
  27 2-Chlorophenol                      128     3.768    3.768  (0.953)    193809   50.0000      50.40
  28 1,3-Dichlorobenzene                 146     3.913    3.913  (0.990)    214069   50.0000      51.10
  29 1,4-Dichlorobenzene                 146     3.975    3.975  (1.005)    218414   50.0000      49.86
  30 Benzyl Alcohol                      108     4.120    4.120  (1.042)    131750   50.0000      50.98
  31 1,2-Dichlorobenzene                 146     4.172    4.172  (1.055)    201823   50.0000      50.12
  32 2-Methylphenol                      108     4.255    4.255  (1.076)    174371   50.0000      49.58
  33 2,2'-oxybis(1-Chloropropane)         45     4.296    4.296  (1.086)    263312   50.0000      47.09
  34 4-Methylphenol                      108     4.410    4.410  (1.115)    175092   50.0000      46.87
  36 Hexachloroethane                    117     4.504    4.504  (1.139)     76332   50.0000      51.19
  37 N-Nitrosodinpropylamine              70     4.442    4.442  (1.123)    122786   50.0000      49.35
  42 Nitrobenzene                         77     4.597    4.597  (0.855)    175102   50.0000      49.00
  44 Isophorone                           82     4.856    4.856  (0.904)    336530   50.0000      48.97
  45 2-Nitrophenol                       139     4.960    4.960  (0.923)    108399   50.0000      51.12
  46 2,4-Dimethyphenol                   107     5.012    5.012  (0.933)    178479   50.0000      47.37
```

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Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002H.D
Report Date: 03-Oct-2010 11:20

                                                                                AMOUNTS
                                      QUANT SIG                              CAL-AMT    ON-COL
Compounds                               MASS       RT    EXP RT   REL RT   RESPONSE   (   NG)    (   NG)
=========================               ====     ====  ======== ======== ========   =======    =======
  47 Bis(2-chloroethoxy)methane          93     5.126   5.126 (0.954)    201982    50.0000      48.10
  49 2,4-Dichlorophenol                 162     5.229   5.229 (0.973)    145389    50.0000      49.88
  50 Benzoic Acid                       122     5.115   5.115 (0.952)    109446    50.0000      52.48
  51 1,2,4-Trichlorobenzene             180     5.322   5.322 (0.990)    152177    50.0000      48.22
  52 Naphthalene                        128     5.395   5.395 (1.004)    577964    50.0000      48.49
  54 4-Chloroaniline                    127     5.488   5.488 (1.021)    219411    50.0000      46.97
  57 Hexachlorobutadiene                225     5.613   5.613 (1.044)     79543    50.0000      51.50
  60 4-Chloro-3-Methylphenol            107     6.069   6.069 (1.129)    158858    50.0000      48.80
  63 2-Methylnaphthalene                142     6.203   6.203 (1.154)    383110    50.0000      51.17
  66 Hexachlorocyclopentadiene          237     6.483   6.483 (0.868)     95339    50.0000      53.99
  69 2,4,6-Trichlorophenol              196     6.587   6.587 (0.882)     96032    50.0000      50.86
  70 2,4,5-Trichlorphenol               196     6.628   6.628 (0.888)    102070    50.0000      50.18
  71 2-Chloronaphthalene                162     6.784   6.784 (0.908)    324725    50.0000      48.76
  73 2-Nitroaniline                      65     6.949   6.949 (0.931)     96293    50.0000      47.70
  76 Dimethylphthalate                  163     7.229   7.229 (0.968)    379709    50.0000      49.52
  77 Acenaphthylene                     152     7.281   7.281 (0.975)    562646    50.0000      48.51
  79 2,6-Dinitrotoluene                 165     7.302   7.302 (0.978)     89736    50.0000      50.23
  80 3-Nitroaniline                     138     7.457   7.457 (0.999)    111929    50.0000      50.19
  81 Acenaphthene                       153     7.509   7.509 (1.006)    354961    50.0000      48.08
  82 2,4-Dinitrophenol                  184     7.582   7.582 (1.015)     50142    50.0000      48.08
  83 Dibenzofuran                       168     7.706   7.706 (1.032)    486071    50.0000      49.61
  84 4-Nitrophenol                      109     7.675   7.675 (1.028)     47938    50.0000      51.82(Q)
  86 2,4-Dinitrotoluene                 165     7.768   7.768 (1.040)    120220    50.0000      51.27
  91 Fluorene                           166     8.131   8.131 (1.089)    402944    50.0000      49.66
  92 Diethylphthalate                   149     8.100   8.100 (1.085)    379976    50.0000      48.40
  93 4-Chlorophenyl-phenylether         204     8.152   8.152 (1.092)    168579    50.0000      49.97
  94 4-Nitroaniline                     138     8.214   8.214 (1.100)    120129    50.0000      54.34
  97 4,6-Dinitro-2-methylphenol         198     8.276   8.276 (0.880)     65675    50.0000      48.62
  98 N-Nitrosodiphenylamine             169     8.317   8.317 (0.884)    273788    58.6000      47.44
 100 Azobenzene                          77     8.359   8.359 (0.889)    367990    50.0000      49.15
 101 4-Bromophenyl-phenylether          248     8.804   8.804 (0.936)     92973    50.0000      50.02
 108 Hexachlorobenzene                  284     8.981   8.981 (0.955)    104824    50.0000      50.50
 110 Pentachlorophenol                  266     9.240   9.240 (0.982)     62906    50.0000      50.72
 114 Phenanthrene                       178     9.437   9.437 (1.003)    575211    50.0000      47.93
 115 Anthracene                         178     9.509   9.509 (1.011)    584548    50.0000      48.76
 118 Carbazole                          167     9.768   9.768 (1.039)    547701    50.0000      50.01
 120 Di-n-Butylphthalate                149    10.473  10.473 (1.113)    662234    50.0000      50.26
 126 Fluoranthene                       202    11.302  11.302 (1.202)    567781    50.0000      52.80
 127 Benzidine                          184    11.582  11.582 (0.840)    159069    50.0000      18.61
 128 Pyrene                             202    11.665  11.665 (0.846)    595801    50.0000      45.20
 134 3,3'-dimethylbenzidine             212    12.877  12.877 (0.934)    141696    50.0000      18.78
 136 Butylbenzylphthalate               149    12.991  12.991 (0.942)    310154    50.0000      46.95
 138 Benzo(a)Anthracene                 228    13.758  13.758 (0.998)    523382    50.0000      46.59
 139 Chrysene                           228    13.830  13.830 (1.003)    551943    50.0000      48.03
 140 3,3'-Dichlorobenzidine             252    13.799  13.799 (1.001)    198689    50.0000      46.89
 141 bis(2-ethylhexyl)Phthalate         149    14.110  14.110 (1.023)    422505    50.0000      46.43
 142 Di-n-octylphthalate                149    15.167  15.167 (1.100)    671608    50.0000      46.17
 144 Benzo(b)fluoranthene               252    15.582  15.582 (0.963)    474456    50.0000      49.97(Q)
 145 Benzo(k)fluoranthene               252    15.623  15.623 (0.966)    640533    50.0000      52.55
 147 Benzo(e)pyrene                     252    16.007  16.007 (0.990)    515993    50.0000      52.12
 148 Benzo(a)pyrene                     252    16.079  16.079 (0.994)    500123    50.0000      46.46
 151 Indeno(1,2,3-cd)pyrene             276    17.810  17.810 (1.101)    429096    50.0000      49.29
 152 Dibenzo(a,h)anthracene             278    17.851  17.851 (1.104)    519505    50.0000      53.41
 153 Benzo(g,h,i)perylene               276    18.235  18.235 (1.127)    569749    50.0000      54.10
```

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                                                                                        AMOUNTS
                                              QUANT SIG                              CAL-AMT    ON-COL
Compounds                                       MASS      RT   EXP RT  REL RT RESPONSE  (   NG)  (   NG)
========================                        ====     ==== ======== ======= ======== ======= =======
M 162 benzo b,k Fluoranthene Totals              252                           1114989  50.0000
```

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: sv5.i
Lab File ID: HSL1002H.D
Lab Smp Id: HSL_050 ug/ml ICV
Analysis Type: SV
Quant Type: ISTD
Operator: KT
Method File: \\SV5\C\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0314;0;8270F.M

Calibration Date: 02-OCT-2010
Calibration Time: 13:44
Client Smp ID: 8270F.M
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	122625	61313	245250	98364	-19.78
2 Naphthalene-d8	530514	265257	1061028	431655	-18.63
3 Acenaphthene-d10	282538	141269	565076	236662	-16.24
4 Phenanthrene-d10	462722	231361	925444	380734	-17.72
5 Chrysene-d12	435850	217925	871700	421719	-3.24
6 Perylene-d12	422284	211142	844568	419419	-0.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	3.95	3.45	4.45	3.95	0.00
2 Naphthalene-d8	5.37	4.87	5.87	5.37	0.00
3 Acenaphthene-d10	7.47	6.97	7.97	7.47	0.00
4 Phenanthrene-d10	9.41	8.91	9.91	9.41	0.00
5 Chrysene-d12	13.79	13.29	14.29	13.79	0.00
6 Perylene-d12	16.17	15.67	16.67	16.17	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\C\chem\sv5.i\100210.B\HSL1002H.D

Date : 02-OCT-2010 16:11

Client ID: 8270F.M

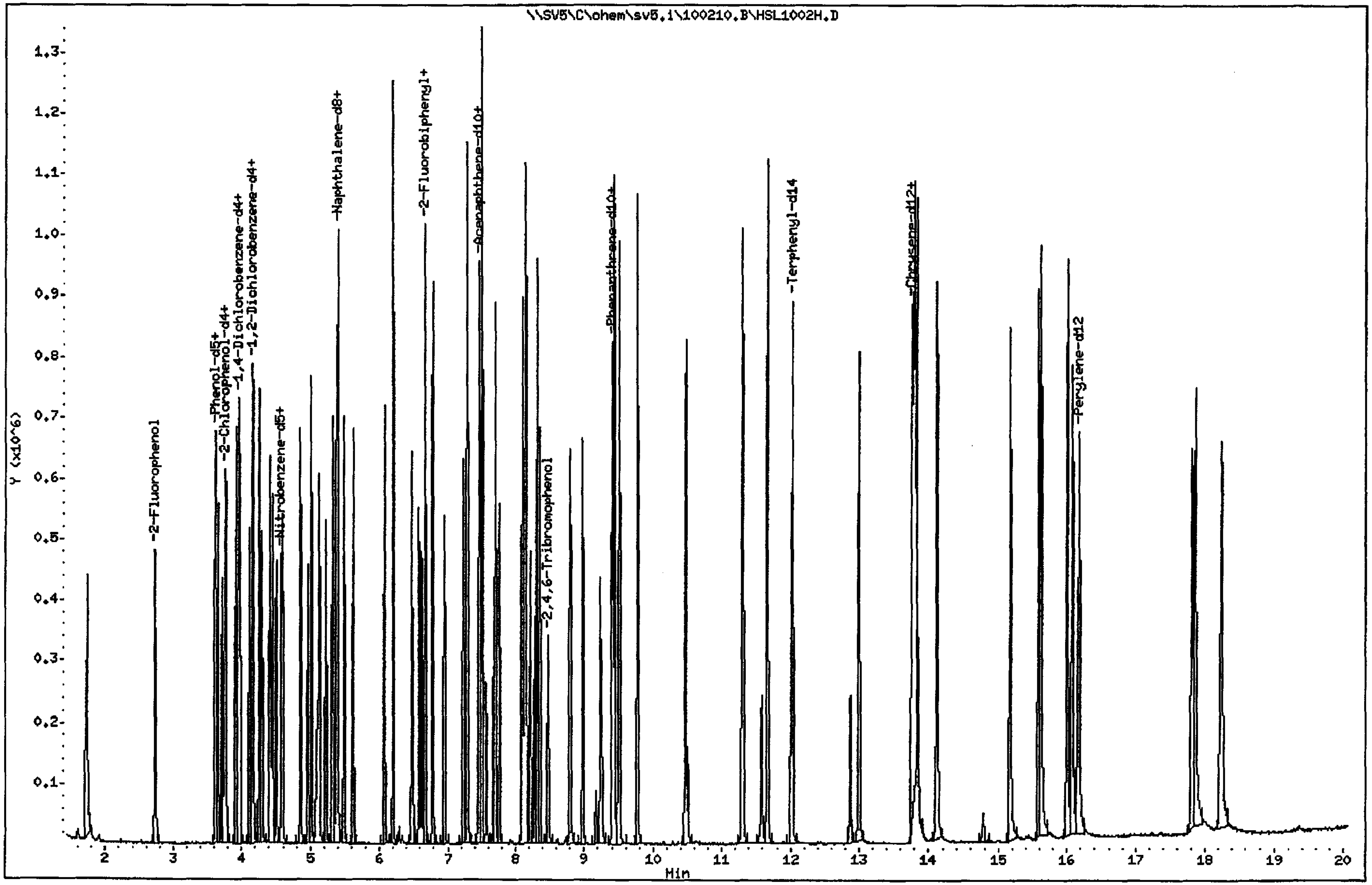
Sample Info: HSL_050 ug/ml ICV;2;;4;;;;4

Column phase:

Instrument: sv5.i

Operator: KT

Column diameter: 2.00



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                         TestAmerica West Sacramento

                                      Method 8270C
Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002H1.D
Lab Smp Id: Benzidines ICV 50ug          Client Smp ID: 8270F.M
Inj Date  : 02-OCT-2010 16:36
Operator  : KT                           Inst ID: sv5.i
Smp Info  : Benzidines ICV 50ug/mL;2;;4;;;;4
Misc Info : 3;;0;BenzICV.SUB;10MSSV0342;0;8270F.M
Comment   : SOP SAC-MS-0005
Method    : \\sv5\c\chem\sv5.i\100210.B\8270f.m
Meth Date : 03-Oct-2010 11:13 truongk    Quant Type: ISTD
Cal Date  : 17-AUG-2010 21:19            Cal File: AP90817D.D
Als bottle: 9                            Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon                       Compound Sublist: BenzICV.SUB
Target Version:  4.14
Processing Host: SACP307UM


                                                                                AMOUNTS
                                  QUANT SIG                                     CAL-AMT   ON-COL
Compounds                           MASS      RT     EXP RT   REL RT  RESPONSE  (   NG)   (   NG)
==========================          ====     ====  ======== ======== ========  =======   =======
*    1 1,4-Dichlorobenzene-d4        152     3.954    3.954 (1.000)    115503   40.0000
*    2 Naphthalene-d8                136     5.364    5.364 (1.000)    480485   40.0000
*    3 Acenaphthene-d10              164     7.468    7.468 (1.000)    254190   40.0000
*    4 Phenanthrene-d10              188     9.405    9.405 (1.000)    405333   40.0000
*    5 Chrysene-d12                  240    13.779   13.779 (1.000)    378068   40.0000
*    6 Perylene-d12                  264    16.162   16.162 (1.000)    372382   40.0000
   127 Benzidine                     184    11.571   11.571 (0.840)    436364   50.0000     56.95
   134 3,3'-dimethylbenzidine        212    12.867   12.867 (0.934)    373217   50.0000     55.18
   140 3,3'-Dichlorobenzidine        252    13.799   13.799 (1.002)    200534   50.0000     52.79
```

```
Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002H1.D                    Page 2
Report Date: 03-Oct-2010 11:13

                          TestAmerica West Sacramento

                          INTERNAL STANDARD COMPOUNDS
                              AREA AND RT SUMMARY

Instrument ID: sv5.i                                Calibration Date: 02-OCT-2010
Lab File ID: HSL1002H1.D                            Calibration Time: 13:44
Lab Smp Id: Benzidines ICV 50ug                     Client Smp ID: 8270F.M
Analysis Type: SV                                         Level:
Quant Type: ISTD                                    Sample Type:
Operator: KT
Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m
Misc Info: 3;;0;BenzICV.SUB;10MSSV0342;0;8270F.M

Test Mode:
           Use Initial Calibration Level 4.

 |                     |          |      AREA LIMIT       |          |       |
 | COMPOUND            | STANDARD |  LOWER   |   UPPER    |  SAMPLE  | %DIFF |
 |=====================|==========|==========|============|==========|=======|
 |  1 1,4-Dichlorobenze|    122625|     61313|      245250|    115503|  -5.81|
 |  2 Naphthalene-d8   |    530514|    265257|     1061028|    480485|  -9.43|
 |  3 Acenaphthene-d10 |    282538|    141269|      565076|    254190| -10.03|
 |  4 Phenanthrene-d10 |    462722|    231361|      925444|    405333| -12.40|
 |  5 Chrysene-d12     |    435850|    217925|      871700|    378068| -13.26|
 |  6 Perylene-d12     |    422284|    211142|      844568|    372382| -11.82|
 |                     |          |          |            |          |       |

 |                     |          |       RT LIMIT        |          |       |
 | COMPOUND            | STANDARD |  LOWER   |   UPPER    |  SAMPLE  | %DIFF |
 |=====================|==========|==========|============|==========|=======|
 |  1 1,4-Dichlorobenze|      3.95|      3.45|        4.45|      3.95|   0.00|
 |  2 Naphthalene-d8   |      5.36|      4.86|        5.86|      5.36|   0.00|
 |  3 Acenaphthene-d10 |      7.47|      6.97|        7.97|      7.47|   0.00|
 |  4 Phenanthrene-d10 |      9.41|      8.91|        9.91|      9.41|   0.00|
 |  5 Chrysene-d12     |     13.78|     13.28|       14.28|     13.78|   0.00|
 |  6 Perylene-d12     |     16.16|     15.66|       16.66|     16.16|   0.00|
 |                     |          |          |            |          |       |

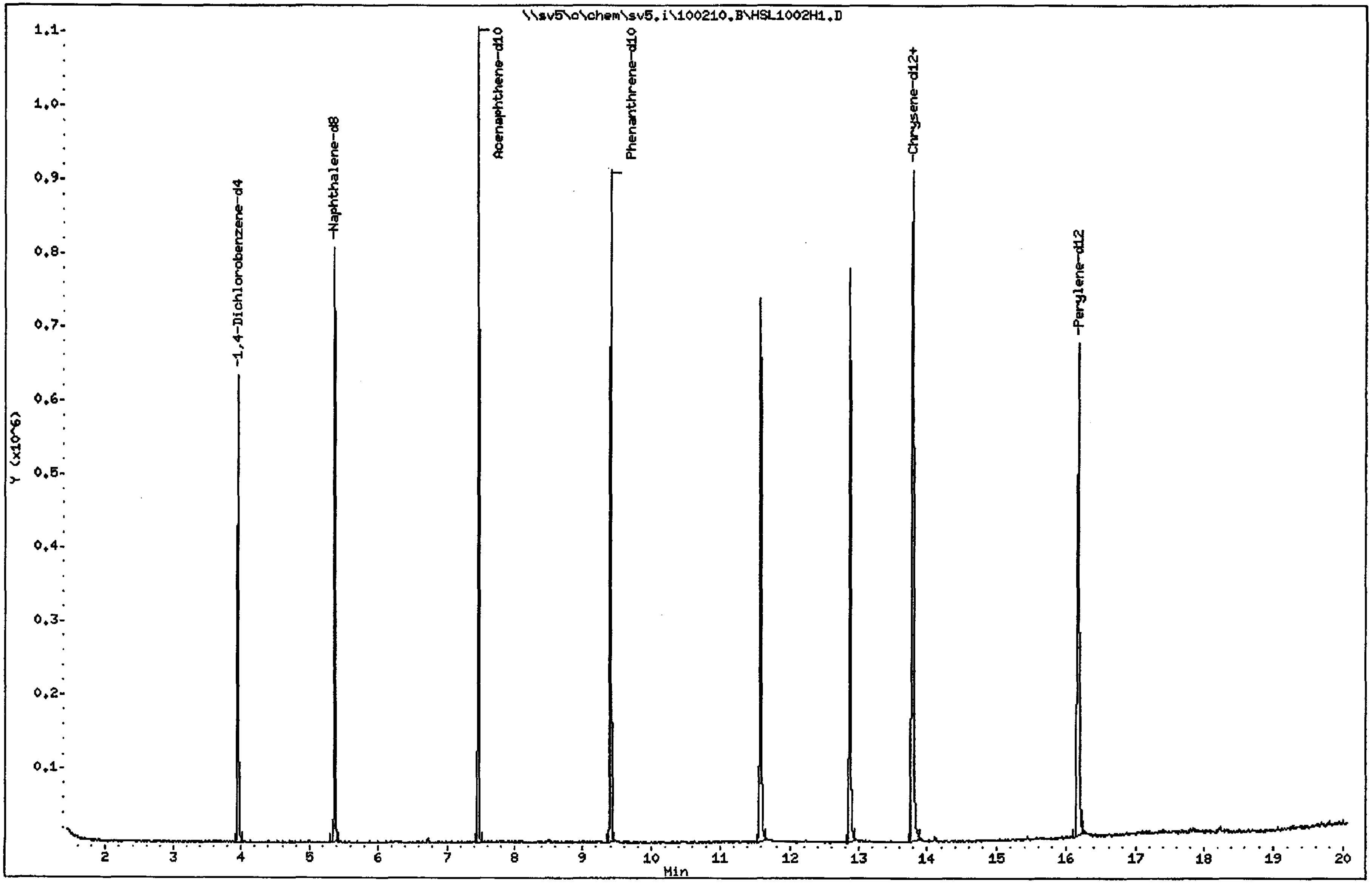
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.
```

Data File: \\sv5\c\chem\sv5.i\100210.B\HSL1002H1.D
Date : 02-OCT-2010 16:36
Client ID: 8270F.M
Sample Info: Benzidines ICV 50ug/mL;2;;4;;;;4

Column phase:

Instrument: sv5.i

Operator: KT
Column diameter: 2.00



TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 02-OCT-2010 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:07 sv5.i
Curve Type : Average

Calibration File Names:
Level 1: \\SV5\C\chem\sv5.i\081710.B\AP90817A.D
Level 2: \\SV5\C\chem\sv5.i\081710.B\AP90817B.D
Level 3: \\SV5\C\chem\sv5.i\081710.B\AP90817C.D
Level 4: \\SV5\C\chem\sv5.i\081710.B\AP90817D.D
Level 5: \\SV5\C\chem\sv5.i\081710.B\AP90817E.D
Level 6: \\SV5\C\chem\sv5.i\081710.B\AP90817F.D
Level 7: \\SV5\C\chem\sv5.i\081710.B\AP90817G.D

10/3/10

Original RRF

Compound	5.000 Level 1 160.000 Level 7	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	$\overline{\text{RRF}}$	% RSD
15 N-Nitrosodimethylamine	0.92899	0.88268	0.91048	0.91970	0.93146	0.93916		
	0.93833						0.92154	2.162
16 Pyridine	1.67117	1.37423	1.59449	1.56610	1.52299	1.53256		
	1.52623						1.54111	5.856
23 Aniline	2.20796	2.15935	2.19988	2.26058	2.29749	2.33400		
	2.33783						2.25673	3.098
24 Phenol	2.04111	1.96212	2.02834	2.03430	2.06683	2.06089		
	2.06740						2.03729	1.802
26 Bis(2-chloroethyl)ether	1.47335	1.38252	1.39491	1.43824	1.42549	1.44300		
	1.44264						1.42859	2.170
27 2-Chlorophenol	1.52099	1.55595	1.56903	1.58168	1.56789	1.58074		
	1.57039						1.56381	1.328
28 1,3-Dichlorobenzene	1.68903	1.69173	1.67754	1.73135	1.68641	1.72299		
	1.72457						1.70337	1.294
29 1,4-Dichlorobenzene	1.77122	1.79861	1.74013	1.76898	1.78200	1.79288		
	1.81444						1.78118	1.352

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 02-OCT-2010 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:07 sv5.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7							
30 Benzyl Alcohol	1.01643	1.03654	0.99182	1.04980	1.07792	1.08952		
	1.09506						1.05101	3.697
31 1,2-Dichlorobenzene	1.62008	1.63185	1.60455	1.68061	1.63410	1.64415		
	1.64691						1.63746	1.459
32 2-Methylphenol	1.40818	1.38930	1.39110	1.42620	1.45565	1.46154		
	1.47889						1.43012	2.506
33 2,2'-oxybis(1-Chloropropane)	2.29602	2.22080	2.28329	2.27928	2.27018	2.27830		
	2.28770						2.27365	1.085
34 4-Methylphenol	1.48606	1.48913	1.46270	1.52239	1.52653	1.55886		
	1.58763						1.51904	2.884
36 Hexachloroethane	0.60925	0.60836	0.60573	0.61394	0.60427	0.59381		
	0.60919						0.60636	1.043
37 N-Nitrosodinpropylamine	0.94498	0.97005	1.01302	1.02370	1.04700	1.03627		
	1.04757						1.01180	3.926
42 Nitrobenzene	0.32855	0.32602	0.32543	0.33083	0.33379	0.33450		
	0.33901						0.33116	1.489
44 Isophorone	0.63431	0.62291	0.61160	0.63344	0.63648	0.66468		
	0.65411						0.63679	2.811
45 2-Nitrophenol	0.18608	0.18833	0.18840	0.20021	0.20022	0.20702		
	0.20508						0.19648	4.423
46 2,4-Dimethyphenol	0.34459	0.34167	0.34307	0.34912	0.34788	0.35962		
	0.35785						0.34911	2.028

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 02-OCT-2010 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:07 sv5.i
Curve Type : Average

	5.000	10.000	20.000	50.000	80.000	120.000	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	160.000							
	Level 7							
47 Bis(2-chloroethoxy)methane	0.41146	0.37494	0.38565	0.38249	0.38500	0.39859		
	0.38545						0.38908	3.106
49 2,4-Dichlorophenol	0.25434	0.26318	0.27019	0.27037	0.27274	0.28180		
	0.27809						0.27010	3.393
50 Benzoic Acid	0.16747	0.16266	0.17423	0.19357	0.21024	0.22272		
	0.22180						0.19324	13.252
51 1,2,4-Trichlorobenzene	0.29430	0.28827	0.28475	0.29747	0.29189	0.29959		
	0.29091						0.29246	1.760
52 Naphthalene	1.09939	1.12462	1.07435	1.09325	1.09870	1.13821		
	1.10247						1.10443	1.900
54 4-Chloroaniline	0.40751	0.42534	0.43264	0.43910	0.43781	0.44905		
	0.43867						0.43288	3.068
57 Hexachlorobutadiene	0.14295	0.13812	0.14428	0.14415	0.14385	0.14379		
	0.14473						0.14313	1.589
60 4-Chloro-3-Methylphenol	0.29329	0.28866	0.29079	0.30972	0.30295	0.31766		
	0.30839						0.30164	3.644
63 2-Methylnaphthalene	0.68483	0.68064	0.68080	0.70067	0.70560	0.71172		
	0.69217						0.69378	1.797
66 Hexachlorocyclopentadiene	0.26878	0.27757	0.28896	0.29704	0.30236	0.32262		
	0.33186						0.29846	7.645
69 2,4,6-Trichlorophenol	0.31186	0.29820	0.30223	0.31996	0.32305	0.34225		
	0.33638						0.31913	5.157

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32
End Cal Date : 02-OCT-2010 15:00
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m
Last Edit : 03-Oct-2010 11:07 sv5.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7							
70 2,4,5-Trichlorphenol	0.30823	0.32892	0.33796	0.36298	0.35236	0.35480		
	0.36135						0.34380	5.807
71 2-Chloronaphthalene	1.13629	1.09411	1.10012	1.14181	1.11220	1.14447		
	1.15096						1.12571	2.051
73 2-Nitroaniline	0.31576	0.31759	0.33397	0.35205	0.34821	0.35794		
	0.36278						0.34119	5.573
76 Dimethylphthalate	1.23388	1.25191	1.29803	1.34568	1.31165	1.32891		
	1.30237						1.29606	3.093
77 Acenaphthylene	1.86531	1.91304	1.91818	2.01646	1.98204	1.99786		
	2.02968						1.96037	3.150
79 2,6-Dinitrotoluene	0.28347	0.27378	0.29890	0.31220	0.31294	0.32140		
	0.31106						0.30197	5.786
80 3-Nitroaniline	0.35362	0.34622	0.35978	0.40036	0.38674	0.39559		
	0.39603						0.37691	6.069
81 Acenaphthene	1.25874	1.22468	1.26733	1.27046	1.21141	1.24781		
	1.25463						1.24787	1.768
82 2,4-Dinitrophenol	0.10149	0.11058	0.14485	0.16667	0.18378	0.20563		
	0.20232						0.15933	26.349
83 Dibenzofuran	1.57786	1.62124	1.65200	1.69530	1.65117	1.68450		
	1.71077						1.65612	2.779
84 4-Nitrophenol	0.12712	0.14148	0.15316	0.16076	0.17130	0.16653		
	0.17404						0.15634	10.909

TestAmerica West Sacramento

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Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7							
86 2,4-Dinitrotoluene	0.34360	0.35989	0.38479	0.42154	0.41035	0.42305		
	0.43110						0.39633	8.616
91 Fluorene	1.34567	1.33840	1.34292	1.39902	1.38899	1.37835		
	1.40640						1.37139	2.086
92 Diethylphthalate	1.22240	1.29889	1.31549	1.37912	1.31873	1.37345		
	1.38087						1.32699	4.319
93 4-Chlorophenyl-phenylether	0.54964	0.55917	0.56887	0.59265	0.56708	0.57695		
	0.57695						0.57019	2.429
94 4-Nitroaniline	0.33346	0.33747	0.37329	0.38337	0.39216	0.39102		
	0.40452						0.37361	7.424
97 4,6-Dinitro-2-methylphenol	0.09316	0.10533	0.12545	0.13163	0.14105	0.15288		
	0.15229						0.12883	17.707
98 N-Nitrosodiphenylamine	0.57756	0.59736	0.60533	0.60433	0.62172	0.61801		
	0.61968						0.60628	2.577
100 Azobenzene	0.77527	0.76965	0.77321	0.79522	0.80064	0.81892		
	0.77331						0.78660	2.371
101 4-Bromophenyl-phenylether	0.18964	0.18507	0.19281	0.19931	0.19607	0.20581		
	0.19815						0.19527	3.488
108 Hexachlorobenzene	0.22958	0.22054	0.20740	0.21605	0.21731	0.21704		
	0.21854						0.21807	3.009
110 Pentachlorophenol	0.09427	0.09851	0.11582	0.11736	0.13228	0.13923		
	0.13770						0.11931	15.221

TestAmerica West Sacramento

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Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7							
114 Phenanthrene	1.30347	1.26007	1.25408	1.24163	1.24375	1.25610		
	1.26611						1.26074	1.643
115 Anthracene	1.25034	1.21759	1.24206	1.25982	1.27529	1.30214		
	1.26958						1.25955	2.129
118 Carbazole	1.13211	1.12547	1.13694	1.14260	1.17067	1.18192		
	1.16455						1.15061	1.878
120 Di-n-Butylphthalate	1.28492	1.32287	1.36193	1.38164	1.41474	1.43847		
	1.48636						1.38442	4.973
126 Fluoranthene	1.03840	1.07611	1.17216	1.10520	1.15861	1.18294		
	1.17440						1.12969	5.018
127 Benzidine	0.78175	0.76431	0.75250	0.82658	0.82201	0.86375		
	0.86381						0.81067	5.606
128 Pyrene	1.25791	1.23783	1.17078	1.28684	1.25586	1.28463		
	1.25794						1.25025	3.122
134 3,3'-dimethylbenzidine	0.65472	0.64388	0.67361	0.70756	0.73630	0.79414		
	0.79926						0.71564	8.888
136 Butylbenzylphthalate	0.64984	0.60187	0.59142	0.62586	0.61590	0.65233		
	0.64920						0.62663	3.950
138 Benzo(a)Anthracene	1.10169	0.99731	1.03245	1.04489	1.06449	1.10831		
	1.10920						1.06548	4.058
139 Chrysene	1.05284	1.10175	1.06320	1.09705	1.06985	1.12241		
	1.12246						1.08994	2.594

TestAmerica West Sacramento

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Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7							
140 3,3'-Dichlorobenzidine	0.39148	0.37695	0.39090	0.39906	0.40353	0.42717		
	0.42415						0.40189	4.539
141 bis(2-ethylhexyl)Phthalate	0.91826	0.80897	0.84032	0.85193	0.84371	0.89539		
	0.88354						0.86316	4.348
142 Di-n-octylphthalate	1.34838	1.23185	1.35627	1.34433	1.39356	1.47616		
	1.50770						1.37975	6.651
144 Benzo(b)fluoranthene	0.81012	0.81077	0.82747	0.99930	0.95373	0.91132		
	1.02572						0.90549	10.058
145 Benzo(k)fluoranthene	1.22939	1.16528	1.20022	1.09895	1.14223	1.19597		
	1.10447						1.16236	4.279
147 Benzo(e)pyrene	0.90394	0.92734	0.90757	0.95977	0.96997	0.96929		
	0.97185						0.94425	3.220
148 Benzo(a)pyrene	0.98300	0.97686	0.99402	1.02789	1.07610	1.06275		
	1.06523						1.02655	4.111
151 Indeno(1,2,3-cd)pyrene	0.73783	0.73267	0.73671	0.84698	0.84057	0.93730		
	0.97995						0.83029	12.151
152 Dibenzo(a,h)anthracene	0.88099	0.84384	0.87256	0.92240	0.95990	1.00944		
	1.00392						0.92758	7.071
153 Benzo(g,h,i)perylene	0.96025	0.98457	0.97380	0.99974	1.01731	1.05397		
	1.04026						1.00427	3.452
M 162 benzo b,k Fluoranthene Totals	2.03951	1.97605	2.02770	2.09825	2.09596	2.10729		
	2.13019						2.06785	2.649

TestAmerica West Sacramento

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Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	$\overline{RRF}$	% RSD
	160.000 Level 7							
$ 7 2-Fluorophenol	1.44503	1.30436	1.38373	1.44170	1.43535	1.42292		
	1.43635						1.40992	3.615
$ 8 Phenol-d5	1.72227	1.67335	1.74151	1.79006	1.80863	1.83864		
	1.83627						1.77296	3.520
$ 9 2-Chlorophenol-d4	1.47770	1.55530	1.53916	1.59414	1.57486	1.57967		
	1.57804						1.55698	2.524
$ 10 1,2-Dichlorobenzene-d4	0.95776	0.98111	0.99827	0.98914	0.99518	0.98547		
	0.98896						0.98513	1.356
$ 11 Nitrobenzene-d5	0.33028	0.34256	0.33065	0.34105	0.33606	0.35127		
	0.33970						0.33879	2.162
$ 12 2-Fluorobiphenyl	1.28499	1.26007	1.27668	1.34206	1.25854	1.29723		
	1.30010						1.28852	2.226
$ 13 2,4,6-Tribromophenol	0.15034	0.16527	0.17466	0.17926	0.17825	0.18501		
	0.18390						0.17381	7.052
$ 14 Terphenyl-d14	0.78508	0.78616	0.73917	0.80441	0.78047	0.81889		
	0.80107						0.78789	3.214

Sample Extraction/Preparation Log Copies and Checklists

Ops Done 10/19

TestAmerica West Sacramento
Organic Prep Log
8270 Air

Box # Air Tox #289

Shared QC Batch: N/A

Shares QC With: N/A

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	10/13/10
Inst Receipt:	

Batch: 0285254

MS Run #:

Prep Date: 10/12/2010

Method: JZ TO-13

Matrix: S AIR

Extraction: 11 SOXHLET (NONE,Na2SO4)

QC: 3W AMBIENT AIR TESTING

SAC: JZ - S - 11 - 3W

RUSH

Prep Reagents

Reagent	Supplier	Lot #
1:1 DCM:Acetone	NA	N/A
DCM	Baker	JZ5801
Na2SO4	Baker	N/A

WS-OP-0006

Soxhlet time on: 14:30 Soxhlet time off: 8:30 (10/13/10) ECJ

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size	Final Volume 1mL	Final Volume Other	Analysis Hold Time Expires
G0J120000 - 254	B	L8A5R1AA	10/15/2010	1.0	✓		11/17/2010
G0J120000 - 254	C	L8A5R1AC	10/15/2010	1.0	✓		11/17/2010
G0J120000 - 254	L	L8A5R1AD	10/15/2010	1.0	✓		11/17/2010
G0J120429 - 1		L8AK61AA	10/15/2010	1.0	✓		11/17/2010
G0J120429 - 4		L8ALF1AA	10/15/2010	1.0	✓		11/17/2010

☑ XAD / PUF / [✓ PUF-XAD]

☐ Filter

☐ Impinger

Comments/NCMs: QC Media: P090910/sup25017333

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Surrogate Spike All Samples	500µL/10AIR0125/ABN Surr	4/4/11		TP	10/12/10
Spike Mix LCS/LCSD~~MS/MS~~ ECJ 10/12/10	1.0mL/10AIR0126/8270 LCS mix	4/9/11		TP	10/12/10
Pre-Spike Standard ~~All Samples~~ → MB only ECJ 10/12/10	250µL/10AIR0120/1,2-DCB-d4	2/27/11		TP	10/12/10
Internal Standard All Samples	20µl 10[illegible]	4/8/11			10/14/10

Soxhlet Extraction Analyst/Date: ECJ 10/12/10

Concentration Analyst/Date: ECJ 10/13/10

KD Analyst/Date: ECJ 10/13/10

Liq Liq Extraction Analyst/Date: N/A

KD Temp 87°C

Review Analyst/Date:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0285254 **Test:** TO-13

Prep Date: 10/12/10 **Holding Times:** 10/15/10 **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: TP Date: 10/12/10

2nd Level Reviewer: MAT Date: 10/14/10

Comments:

q:\forms\checklists\qa-588 prep_review.doc *QA-588 Revised 12/30/2008 ERS*

TestAmerica West Sacramento
GC/MS Data Review Checklist

Batch: 0285254 **Method ID:** Semivolatile Organics by GCMS in Air (TO-13A)

NCM: [✓ Y] N G0J120429

A. Calibration/Instrument Run QC	Analyst	Reviewer	N/A
1. ICAL or ICAL Summary and CCV included.	✓	✓	
2. ICAL, CCV Criteria met.	✓	✓	
3. Peaks correctly ID'd by data system.	✓	✓	
4. Copy of logbook for ICAL included	✓	✓	
5. Tune criteria (including tailing factor and breakdown) met and copy included.	✓	✓	
6. Method Number is identified on data.	✓	✓	
B. QA/QC		✓	
1. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
2. LCS/LCSD and MB data is included.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present in Clouseau.	✓	✓	
4. MS/MSD data complete.		✓	✓
5. Holding Times were met.	✓	✓	
6. All samples within tune time.	✓	✓	
C. Sample Analysis			
1. Logbook copies for all injections made, including ICV standards and ICAL.	✓	✓	
2. Logbooks/prep sheets properly filled out.	✓	✓	
3. Manual Integrations reviewed and appropriate.	✓	✓	
4. All raw data for samples is included (applies to unused data as well)	✓	✓	
5. All analytes correctly reported.	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
7. Spectra present for all positives.	✓	✓	
D. Documentation		✓	
1. Are all nonconformances documented appropriately?	✓	✓	
2. Quantims entry correct, including dates and times.	✓	✓	
3. Appropriate footnotes used.	✓	✓	

Analyst: Date: 10/18/10

2nd Level Reviewer: Date: 10/18/10

Comments:

QA-508 12/2/2006 MAF

AIR, TO-9, 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

Quantitation Summary TestAmerica West Sacramento Page 14 of

Run text: L8A5X-1-AA Sample text: L8A5X-1-AA :G0J120000-255 (429-MB)
Run #19 Filename: 14OC104D5 S: 64 I: 1 Results: 14oc104d5to9
Acquired: 16-OCT-10 09:01:26 Processed: 18-OCT-10 10:57:48
Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.50 sam

AK 10/20/10

Name	Resp	RA		RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	120064300	0.81	y	20:06	-	71.90	-	-	n
13C-2,3,7,8-TCDF	140354400	0.79	y	19:31	1.23	3803.64	3.21	95.1	n
2,3,7,8-TCDF	14907	0.39	n	19:31	0.99	~~0.43~~	1.04	-	n
Total TCDF	70592	0.73	y	18:19	0.99	~~2.02~~	1.04	-	n
13C-2,3,7,8-TCDD	107968400	0.79	y	20:19	0.91	3974.36	6.13	99.4	n
2,3,7,8-TCDD	26228	0.31	n	20:21	0.98	~~0.99~~	1.48	-	n
Total TCDD	104226	0.51	n	16:32	0.98	~~3.93~~	1.48	-	n
37Cl-2,3,7,8-TCDD	59973200	1.00	y	20:21	1.33	1675.54	0.18	104.7	n
13C-1,2,3,7,8-PeCDF	114421300	1.59	y	25:27	0.88	4351.35	7.87	108.8	n
1,2,3,7,8-PeCDF	44234	2.47	n	25:30	1.08	~~1.44~~	1.55	-	n
2,3,4,7,8-PeCDF	28306	2.55	n	27:05	1.05	0.95	1.59 /	-	n
Total F2 PeCDF	115292	2.47	n	25:30	1.06	3.79	~~1.57~~ 1.59	-	n
Total F1 PeCDF	84587	0.28	n	17:05	1.06	~~2.79~~	~~1.29~~	-	n
13C-1,2,3,7,8-PeCDD	77789400	1.58	y	27:54	0.66	3921.75	1.29	98.0	n
1,2,3,7,8-PeCDD	*	*	n	NotFnd	0.93	*	3.61	-	n
Total PeCDD	49006	3.63	n	27:17	0.93	~~2.72~~	3.61	-	n
13C-1,2,3,7,8,9-HxCDD	90864400	1.25	y	33:26	-	76.74	-	-	n
13C-1,2,3,4,7,8-HxCDF	71747100	0.50	y	32:21	1.04	3023.03	2.86	75.6	n
1,2,3,4,7,8-HxCDF	62868	1.31	y	32:22	1.22	2.88 J	0.90	-	n
1,2,3,6,7,8-HxCDF	59163	0.89	n	32:28	1.28	2.57 JQ	0.85	-	n
2,3,4,6,7,8-HxCDF	43240	1.17	y	33:00	1.23	1.95 J	0.88	-	n
1,2,3,7,8,9-HxCDF	39121	0.89	n	33:38	1.10	1.99 JQ	0.99	-	y
Total HxCDF	284720	0.86	n	31:13	1.21	~~13.10~~ 12.54 ✓	0.90	-	y
13C-1,2,3,6,7,8-HxCDD	69933200	1.28	y	33:10	0.83	3705.59	0.23	92.6	n
1,2,3,4,7,8-HxCDD	39676	1.04	n	33:08	1.04	2.19 JQ	1.18	-	y
1,2,3,6,7,8-HxCDD	38987	1.14	y	33:11	1.16	1.92 J	1.05	-	y
1,2,3,7,8,9-HxCDD	69506	1.04	n	33:27	1.18	3.36 JQ	1.03	-	n
Total HxCDD	228921	1.86	n	31:53	1.13	~~11.57~~ 10.74 /	1.08	-	y
13C-1,2,3,4,6,7,8-HpCDF	70090000	0.42	y	34:58	0.91	3390.55	16.64	84.8	n
1,2,3,4,6,7,8-HpCDF	99712	2.28	n	34:57	1.35	4.23 JQ	1.37	-	n
1,2,3,4,7,8,9-HpCDF	76802	0.60	n	36:11	1.09	4.01 J	1.69	-	n
Total HpCDF	176514	2.28	n	34:57	1.22	✓ 8.24	1.52	-	n
13C-1,2,3,4,6,7,8-HpCDD	68442400	1.05	y	35:48	0.83	3644.96	9.53	91.1	n
1,2,3,4,6,7,8-HpCDD	77639	1.13	y	35:49	1.07	4.23 J ✓	1.83	-	n
Total HpCDD	172082	2.55	n	34:58	1.07	~~9.38~~ 7.59	1.83	-	n
13C-OCDD	103776900	0.88	y	38:22	0.62	7369.64	0.14	92.1	n
OCDF	55707	1.33	n	38:29	1.37	3.13 JQ	1.80	-	n

```
OCDD      204048 0.93 y  38:23 1.20          13.12 J         1.70         -   n
```

```
   Quantitation Summary     TestAmerica West Sacramento                          Page 14 of

 Run text: L8A5X-1-AA      Sample text: L8A5X-1-AA :G0J120000-255 (429-MB)
 Run #19 Filename: 14OC104D5   S: 64    I: 1       Results: 14OC104D5TO9
 Acquired: 16-OCT-10   09:01:26           Processed: 18-OCT-10  10:57:48
 Run: 14OC104D5       Analyte: TO9        Cal: TO90721104D5
  Factor 1:1600.000     Factor 2:20.000      Sample size: 0.50   sam


                 Name       Resp   RA       RT  RRF          Conc            EDL        Rec   M

      13C-1,2,3,4-TCDD  120064292 0.81 y  20:06    -       71.897              -          -   n

      13C-2,3,7,8-TCDF  140354408 0.79 y  19:31 1.23     3803.638          3.207       95.1   n
          2,3,7,8-TCDF      14907 0.39 n  19:31 0.99        0.427          1.040          -   n
            Total TCDF      57421 0.17 n  18:23 0.99        1.645          1.040          -   n

      13C-2,3,7,8-TCDD  107968424 0.79 y  20:19 0.91     3974.364          6.127       99.4   n
          2,3,7,8-TCDD      26228 0.31 n  20:21 0.98        0.988          1.477          -   n
            Total TCDD     104226 0.51 n  16:32 0.98        3.926          1.477          -   n

     37Cl-2,3,7,8-TCDD   59973288 1.00 y  20:21 1.33     1675.539          0.179      104.7   n

   13C-1,2,3,7,8-PeCDF  114421312 1.59 y  25:27 0.88     4351.353          7.871      108.8   n
       1,2,3,7,8-PeCDF      44234 2.47 n  25:30 1.08        1.436          1.548          -   n
       2,3,4,7,8-PeCDF      28306 2.55 n  27:05 1.05        0.946          1.594          -   n
        Total F2 PeCDF     115292 2.47 n  25:30 1.06        3.791          1.570          -   n
        Total F1 PeCDF      59334 0.28 n  17:05 1.06        1.955          1.290          -   n

   13C-1,2,3,7,8-PeCDD   77789470 1.58 y  27:54 0.66     3921.757          1.293       98.0   n
       1,2,3,7,8-PeCDD          *    * n NotFnd 0.93            *          3.608          -   n
           Total PeCDD      49006 3.63 n  27:17 0.93        2.723          3.608          -   n

 13C-1,2,3,7,8,9-HxCDD   90864356 1.25 y  33:26    -       76.744              -          -   n

 13C-1,2,3,4,7,8-HxCDF   71747070 0.50 y  32:21 1.04     3023.034          2.862       75.6   n
     1,2,3,4,7,8-HxCDF      62868 1.31 y  32:22 1.22        2.879          0.897          -   n
     1,2,3,6,7,8-HxCDF      59163 0.89 n  32:28 1.28        2.574          0.852          -   n
     2,3,4,6,7,8-HxCDF      43240 1.17 y  33:00 1.23        1.954          0.885          -   n
     1,2,3,7,8,9-HxCDF      40552 0.52 n  33:38 1.10        2.059          0.994          -   n
           Total HxCDF     248537 0.86 n  31:13 1.21       11.438          0.904          -   n

 13C-1,2,3,6,7,8-HxCDD   69933146 1.28 y  33:10 0.83     3705.593          0.230       92.6   n
     1,2,3,4,7,8-HxCDD      41320 2.28 n  33:11 1.04        2.279          1.177          -   n
     1,2,3,6,7,8-HxCDD      41320 2.28 n  33:11 1.16        2.033          1.050          -   n
     1,2,3,7,8,9-HxCDD      69506 1.04 n  33:27 1.18        3.364          1.033          -   n
           Total HxCDD     171584 1.86 n  31:53 1.13        8.480          1.083          -   n

13C-1,2,3,4,6,7,8-HpCDF  70090072 0.42 y  34:58 0.91     3390.555         16.636       84.8   n
   1,2,3,4,6,7,8-HpCDF      99712 2.28 n  34:57 1.35        4.228          1.374          -   n
   1,2,3,4,7,8,9-HpCDF      76802 0.60 n  36:11 1.09        4.008          1.691          -   n
           Total HpCDF     176514 2.28 n  34:57 1.22        8.237          1.516          -   n

13C-1,2,3,4,6,7,8-HpCDD  68442386 1.05 y  35:48 0.83     3644.963          9.528       91.1   n
   1,2,3,4,6,7,8-HpCDD      77639 1.13 y  35:49 1.07        4.234          1.834          -   n
           Total HpCDD     167650 2.55 n  34:58 1.07        9.143          1.834          -   n

              13C-OCDD  103776868 0.88 y  38:22 0.62     7369.645          0.143       92.1   n
```

```
OCDF      55707 1.33 n  38:29 1.37          3.134           1.804        -   n
OCDD     204048 0.93 y  38:23 1.20         13.116           1.698        -   n
```

```
     Totals Results   TestAmerica West Sacramento             Page 1 of 9

 Run Text: L8A5X-1-AA                Sample text: L8A5X-1-AA :G0J120000-255 (4╗

 Name: Total TCDF                F:1  Mass: 303.902 305.899   Mod? no   #Hom:4
 Run: 19 File: 14OC104D5    S:64  Acq:16-OCT-10 09:01:26
 Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D╗

   Amount:      0.823 of which      0.214 named and      0.609  unnamed
     Conc:      1.645 of which      0.427 named and      1.218  unnamed


Name                    #   R.T.  Ratio      Conc.        Area      S/N >? Mod?

                        1  18:23  0.173 n    0.087        1316     0.511   n  n
                                                          7598     1.176   n  n

2,3,7,8-TCDF            2  19:31  0.395 n    0.427        6485     2.196   n  n
                                                         16423     3.224   y  n

                        3  21:41  0.563 n    0.625        9483     3.479   y  n
                                                         16832     2.334   n  n

                        4  21:48  0.451 n    0.507        7696     1.904   n  n
                                                         17060     2.776   n  n
```

```
     Totals Results   TestAmerica West Sacramento             Page 2 of 9

 Run Text: L8A5X-1-AA                Sample text: L8A5X-1-AA :G0J120000-255 (4╗

 Name: Total TCDD                F:1  Mass: 319.897 321.894   Mod? no   #Hom:8
 Run: 19 File: 14OC104D5    S:64  Acq:16-OCT-10 09:01:26
 Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D╗

   Amount:      1.963 of which      0.494 named and      1.469  unnamed
     Conc:      3.926 of which      0.988 named and      2.938  unnamed


Name                    #   R.T.  Ratio      Conc.        Area      S/N >? Mod?

                        1  16:32  0.505 n    0.382        4413     1.400   n  n
                                                          8735     2.707   n  n

                        2  16:43  1.334 n    0.372        7442     1.420   n  n
                                                          5578     1.597   n  n

                        3  16:55  1.072 n    0.377        6070     2.020   n  n
                                                          5661     1.550   n  n

                        4  17:45  0.721 y    0.749        8327     1.525   n  n
                                                         11544     3.720   y  n

                        5  18:55  0.915 n    0.455        6235     1.130   n  n
                                                          6817     2.112   n  n

                        6  19:09  3.091 n    0.128        5950     1.673   n  n
                                                          1925     0.664   n  n
```

```
                        7  19:16  0.942 n    0.475        6714     1.361   n  n
                                                          7129     1.886   n  n

2,3,7,8-TCDD            8  20:21  0.312 n    0.988       11410     2.859   n  n
                                                         36608     5.873   y  n


      Totals Results   TestAmerica West Sacramento                 Page 3 of 9

 Run Text: L8A5X-1-AA               Sample text: L8A5X-1-AA :G0J120000-255 (4╗

 Name: Total F2 PeCDF           F:2  Mass: 339.860 341.857   Mod? no    #Hom:4
 Run: 19 File: 14OC104D5    S:64  Acq:16-OCT-10 09:01:26
 Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D╗

   Amount:      1.896 of which      1.191 named and      0.704  unnamed
     Conc:      3.791 of which      2.383 named and      1.408  unnamed


Name                    #   R.T.  Ratio       Conc.        Area      S/N >? Mod?

1,2,3,7,8-PeCDF         1  25:30  2.468 n    1.436       42819     9.276   y  n
                                                         17347     2.211   n  n

2,3,4,7,8-PeCDF         2  27:05  2.550 n    0.946       28301     6.941   y  n
                                                         11100     1.795   n  n

                        3  27:14  1.321 y    1.250       21595     5.219   y  n
                                                         16352     2.813   n  n

                        4  28:47  0.354 n    0.158        2921     0.991   n  n
                                                          8259     1.565   n  n
```

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     Totals Results   TestAmerica West Sacramento                Page 4 of 9

  Run Text: L8A5X-1-AA                 Sample text: L8A5X-1-AA :G0J120000-255 (4╗

  Name: Total F1 PeCDF           F:1  Mass: 339.860 341.857   Mod? no   #Hom:7
  Run: 19 File: 14OC104D5    S:64  Acq:16-OCT-10 09:01:26
  Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D╗

    Amount:      0.977 of which          * named and      0.977  unnamed
      Conc:      1.955 of which          * named and      1.955  unnamed


 Name                       #   R.T.  Ratio       Conc.        Area      S/N >? Mod?

                            1  17:05  0.282 n     0.385        7109     2.219   n  n
                                                              25208     7.647   y  n

                            2  17:51  0.795 n     0.143        2643     1.382   n  n
                                                               3323     1.383   n  n

                            3  18:56  0.916 n     0.364        6716     3.239   y  n
                                                               7328     2.605   n  n

                            4  20:07  0.836 n     0.161        2968     1.581   n  n
                                                               3553     1.435   n  n

                            5  21:14  0.074 n     0.142        2616     1.017   n  n
                                                              35125     7.193   y  n

                            6  21:48  0.351 n     0.242        4466     1.785   n  n
                                                              12708     4.087   y  n

                            7  22:04  0.436 n     0.518        9549     3.710   y  n
                                                              21909     3.969   y  n
```

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     Totals Results   TestAmerica West Sacramento                Page 5 of 9

  Run Text: L8A5X-1-AA                 Sample text: L8A5X-1-AA :G0J120000-255 (4╗

  Name: Total PeCDD              F:2  Mass: 355.855 357.852   Mod? no   #Hom:1
  Run: 19 File: 14OC104D5    S:64  Acq:16-OCT-10 09:01:26
  Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D╗

    Amount:      1.361 of which          * named and      1.361  unnamed
      Conc:      2.723 of which          * named and      2.723  unnamed


 Name                       #   R.T.  Ratio       Conc.        Area      S/N >? Mod?

                            1  27:17  3.627 n     2.723       69713     6.331   y  n
                                                              19218     4.573   y  n
```

```
     Totals Results   TestAmerica West Sacramento                Page 6 of 9

  Run Text: L8A5X-1-AA                 Sample text: L8A5X-1-AA :G0J120000-255 (4╗

  Name: Total HxCDF              F:3  Mass: 373.821 375.818   Mod? no   #Hom:7
  Run: 19 File: 14OC104D5    S:64  Acq:16-OCT-10 09:01:26
```

```
Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D

   Amount:       5.719 of which      4.733 named and      0.986  unnamed
     Conc:      11.438 of which      9.466 named and      1.972  unnamed

Name                    #   R.T.  Ratio      Conc.      Area     S/N >? Mod?

                        1  31:13  0.856 n    1.410     16905     3.839   y  n
                                                       19742     5.438   y  n

1,2,3,4,7,8-HxCDF       2  32:22  1.313 y    2.879     35688     9.685   y  n
                                                       27180     9.895   y  n

1,2,3,6,7,8-HxCDF       3  32:28  0.887 n    2.574     32751     7.924   y  n
                                                       36931     9.062   y  n

2,3,4,6,7,8-HxCDF       4  33:00  1.171 y    1.954     23318     7.528   y  n
                                                       19921     7.225   y  n

1,2,3,7,8,9-HxCDF       5  33:38  0.519 n    2.059     22448     6.088   y  n
                                                       43283     8.075   y  n

                        6  33:52  0.738 n    0.297      3558     1.059   n  n
                                                        4823     1.897   n  n

                        7  34:03  3.797 n    0.265      9746     2.302   n  n
                                                        2567     1.359   n  n
```

6A

Run Text: L8A5X-1-AA Sample text: L8A5X-1-AA :G0J120000-255 (4╗

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:8
Run: 19 File: 14OC104D5 S:64 Acq:16-OCT-10 09:01:26
Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14oc104d╗

Amount: 6.55 of which 4.70 named and 1.85 unnamed
Conc: 13.10 of which 9.39 named and 3.71 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	31:13	0.86	n	1.41	16906	3.8	y	n
						19742	5.4	y	n
1,2,3,4,7,8-HxCDF	2	32:22	1.31	y	2.88	35688	9.7	y	n
						27180	9.9	y	n
1,2,3,6,7,8-HxCDF	3	32:28	0.89	n	2.57	32751	7.9	y	n
						36931	9.1	y	n
2,3,4,6,7,8-HxCDF	4	33:00	1.17	y	1.95	23318	7.5	y	n
						19921	7.2	y	n
1,2,3,7,8,9-HxCDF	5	33:38	0.89	n	1.99	21656	6.1	y	y
						24434	8.1	y	y
	6	33:42	1.05	n	1.74	20822	3.9	y	y
						19889	5.6	y	y
	7	33:52	0.74	n	0.~~30~~	3558	1.1	n	n
						4823	1.9	n	n
	8	34:03	3.80	n	0.~~27~~	9746	2.3	n	n
						2567	1.4	n	n

7A

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     Totals Results    TestAmerica West Sacramento              Page 7 of 9

  Run Text: L8A5X-1-AA                  Sample text: L8A5X-1-AA :G0J120000-255 (4╖

  Name: Total HxCDD               F:3  Mass: 389.816 391.813   Mod? yes  #Hom:7
  Run: 19 File: 14OC104D5    S:64  Acq:16-OCT-10 09:01:26
  Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14oc104d╖

    Amount:       5.78 of which       3.73 named and       2.05  unnamed
      Conc:      11.57 of which       7.47 named and       4.10  unnamed


 Name                       #   R.T.  Ratio       Conc.        Area      S/N >? Mod?

                            1  31:53  1.86  n      1.48       24177       5.2   y  n
                                                              13032       3.8   y  n

                            2  32:21  4.24  n      0.44       16272       5.0   y  n
                                                               3836       1.2   n  n

                            3  32:37  0.64  n      0.39        4301       1.9   n  y
                                                               6739       2.0   n  n

                            4  32:59  1.42  y      1.79       20639       5.6   y  y
                                                              14560       2.3   n  y

 1,2,3,4,7,8-HxCDD          5  33:08  1.04  n      2.19       21963       6.7   y  y
                                                              21081       5.0   y  y

 1,2,3,6,7,8-HxCDD          6  33:11  1.14  y      1.92       20767       8.2   y  y
                                                              18221       5.0   y  y

 1,2,3,7,8,9-HxCDD          7  33:27  1.04  n      3.36       38477       9.2   y  n
                                                              36958       7.5   y  n
```

See 7A

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     Totals Results   TestAmerica West Sacramento               Page 7 of 9

 Run Text: L8A5X-1-AA               Sample text: L8A5X-1-AA :G0J120000-255 (4╗

 Name: Total HxCDD              F:3  Mass: 389.816 391.813   Mod? no   #Hom:6
 Run: 19 File: 14OC104D5    S:64  Acq:16-OCT-10 09:01:26
 Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D╗

   Amount:      4.240 of which      2.698 named and      1.541  unnamed
     Conc:      8.480 of which      5.397 named and      3.083  unnamed


Name                     #   R.T.  Ratio       Conc.        Area      S/N >? Mod?

                         1  31:53  1.855 n     1.481       24177     5.158   y  n
                                                           13032     3.777   y  n

                         2  32:21  4.242 n     0.436       16272     4.973   y  n
                                                            3836     1.212   n  n

                         3  32:37  0.638 n     0.394        4301     1.917   n  n
                                                            6739     2.048   n  n

                         4  32:59  3.015 n     0.771       20463     5.535   y  n
                                                            6787     1.795   n  n

1,2,3,6,7,8-HxCDD        5  33:11  2.276 n     2.033       41991     8.176   y  n
                                                           18447     4.898   y  n

1,2,3,7,8,9-HxCDD        6  33:27  1.041 n     3.364       38477     9.198   y  n
                                                           36958     7.521   y  n


     Totals Results   TestAmerica West Sacramento               Page 8 of 9

 Run Text: L8A5X-1-AA               Sample text: L8A5X-1-AA :G0J120000-255 (4╗

 Name: Total HpCDF              F:4  Mass: 407.782 409.779   Mod? no   #Hom:2
 Run: 19 File: 14OC104D5    S:64  Acq:16-OCT-10 09:01:26
 Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D╗

   Amount:      4.118 of which      4.118 named and          *  unnamed
     Conc:      8.237 of which      8.237 named and          *  unnamed


Name                     #   R.T.  Ratio       Conc.        Area      S/N >? Mod?

1,2,3,4,6,7,8-HpCDF      1  34:57  2.283 n     4.228      111589    14.519   y  n
                                                           48879    13.553   y  n

1,2,3,4,7,8,9-HpCDF      2  36:11  0.597 n     4.008       39154     3.346   y  n
                                                           65615     9.021   y  n


     Totals Results   TestAmerica West Sacramento               Page 9 of 9

 Run Text: L8A5X-1-AA               Sample text: L8A5X-1-AA :G0J120000-255 (4╗

 Name: Total HpCDD              F:4  Mass: 423.777 425.774   Mod? no   #Hom:3
 Run: 19 File: 14OC104D5    S:64  Acq:16-OCT-10 09:01:26
```

```
 Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D

   Amount:       4.571 of which      2.117 named and      2.454  unnamed
     Conc:       9.143 of which      4.234 named and      4.909  unnamed

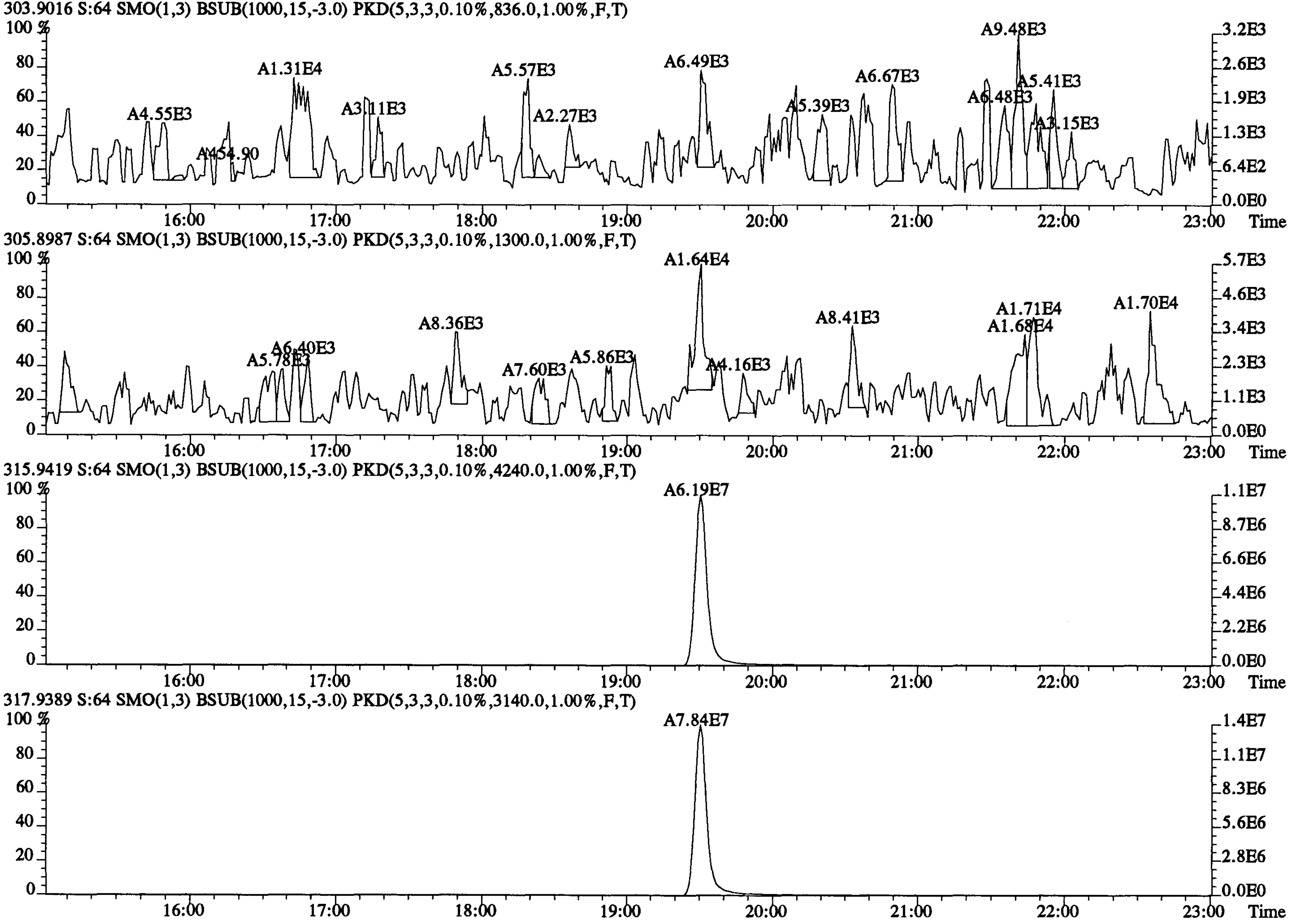
Name                     #   R.T.  Ratio      Conc.        Area      S/N >? Mod?

                         1  34:58  2.551 n    1.553        35624     7.185   y  n
                                                           13962     2.242   n  n

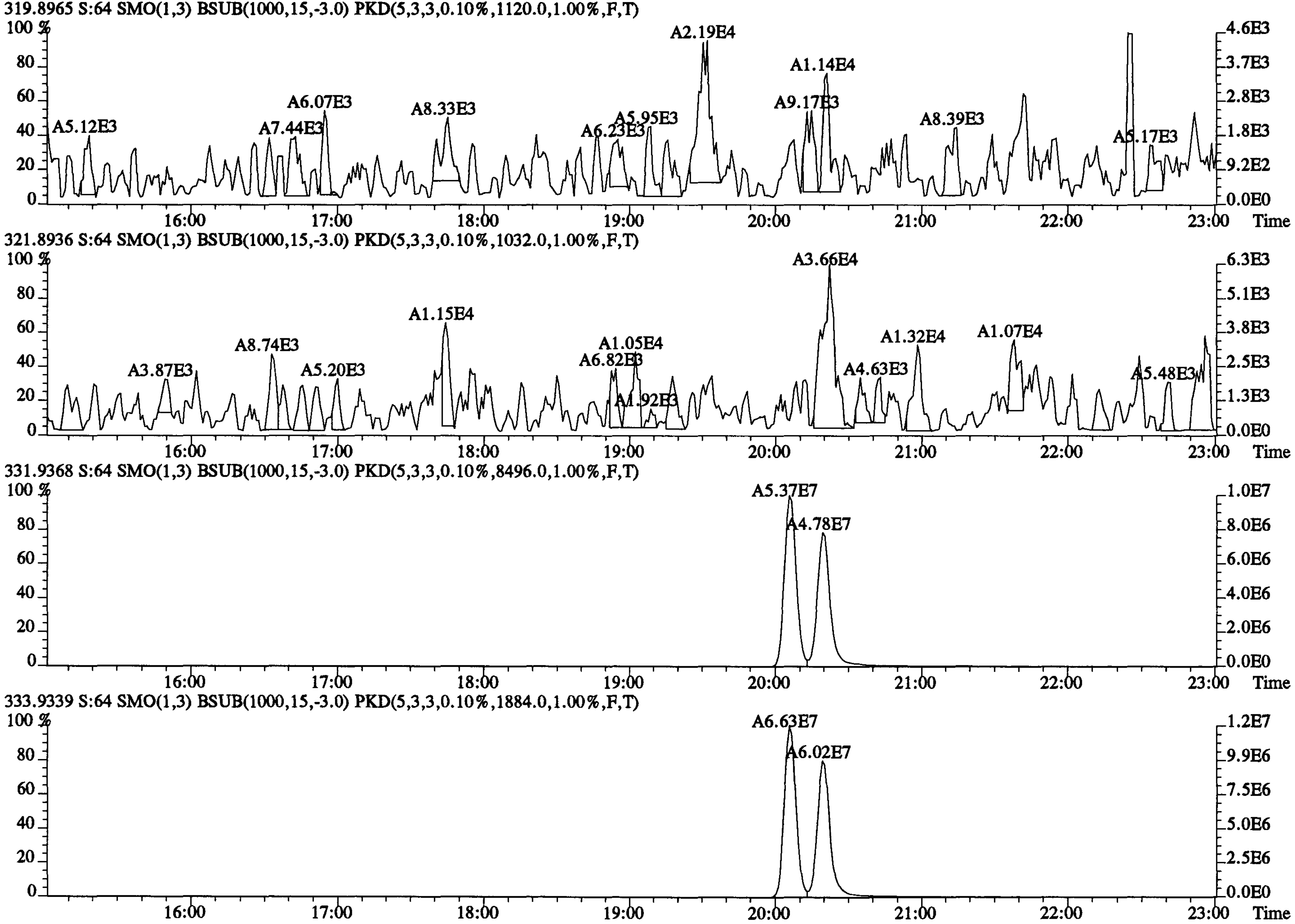
                         2  35:14  0.869 n    3.355        31367     6.475   y  n
                                                           36085     7.203   y  n

1,2,3,4,6,7,8-HpCDD      3  35:49  1.126 y    4.234        41117     9.694   y  n
                                                           36522     6.577   y  n
```

File:14OC104D5 #1-530 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES



File:14OC104D5 #1-530 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

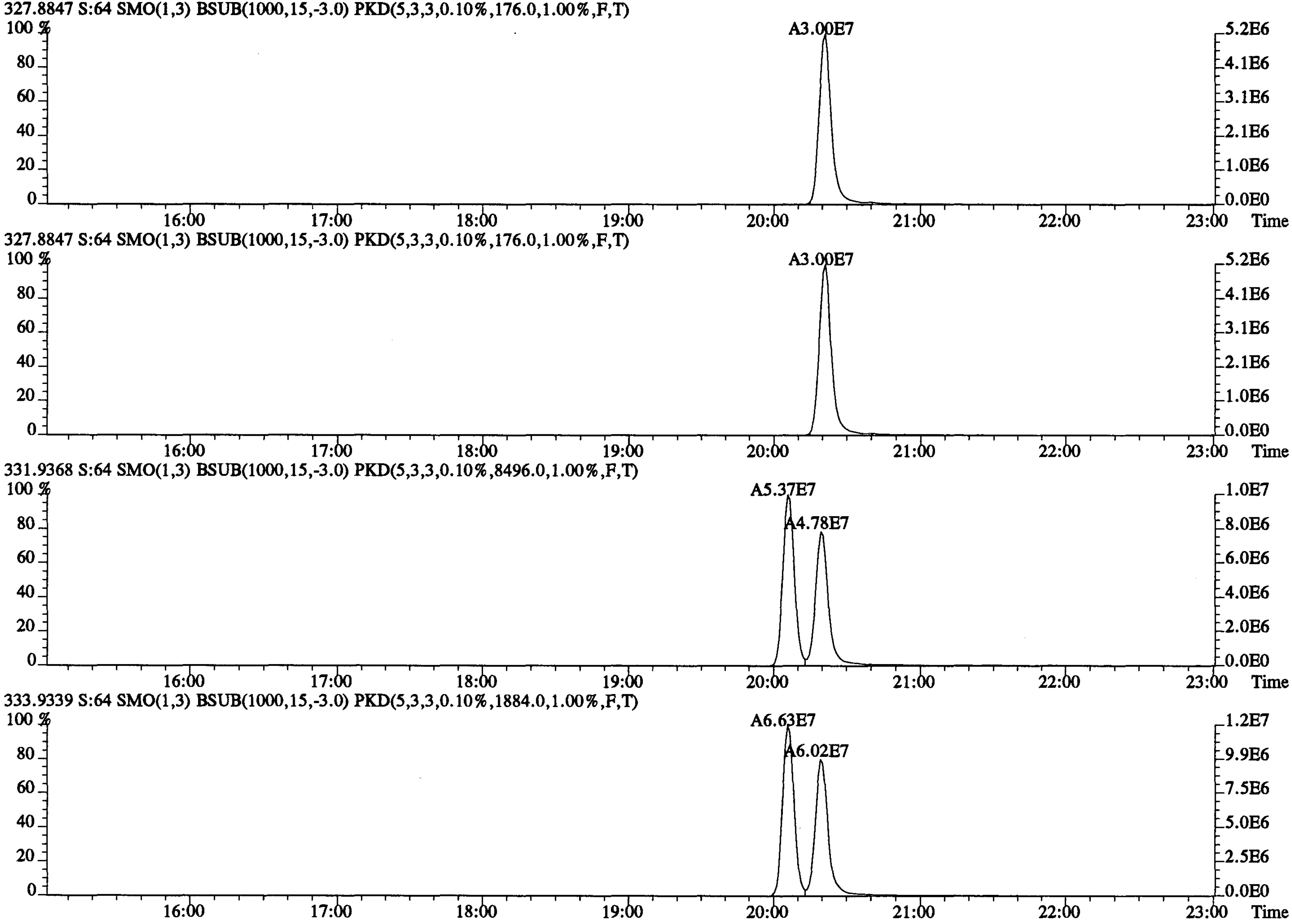

319.8965 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1120.0,1.00%,F,T)

321.8936 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1032.0,1.00%,F,T)

331.9368 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8496.0,1.00%,F,T)

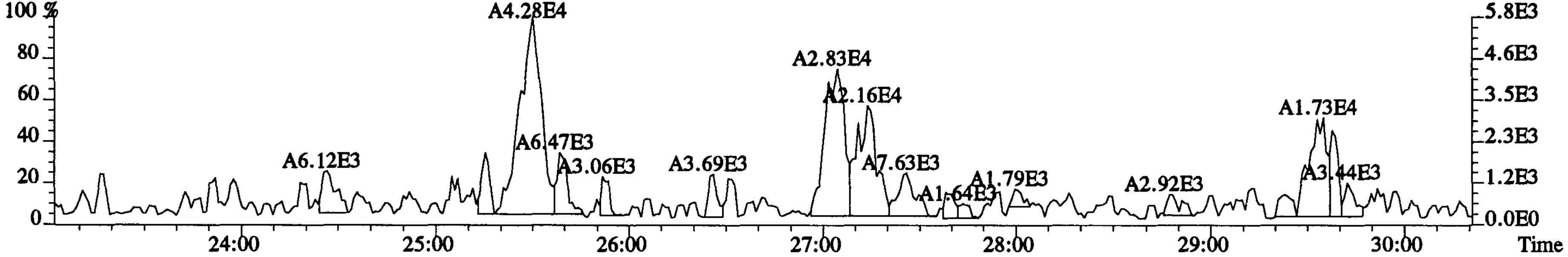
333.9339 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1884.0,1.00%,F,T)

File:14OC104D5 #1-530 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

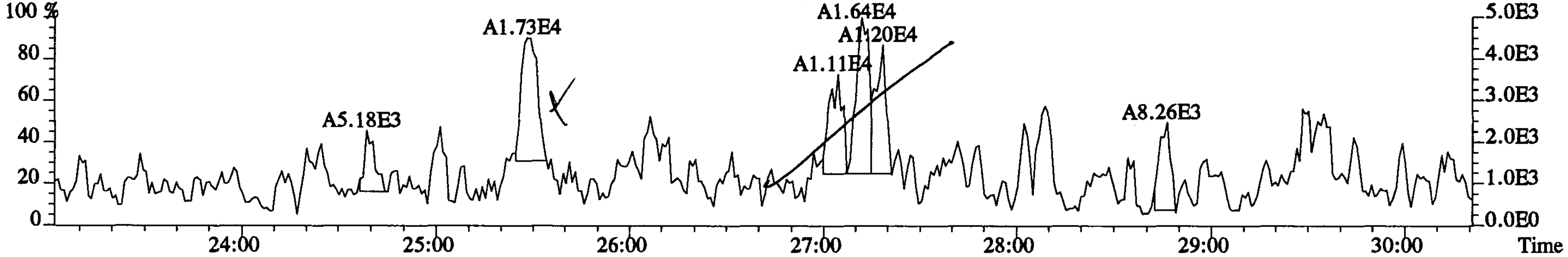


File:14OC104D5 #1-470 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

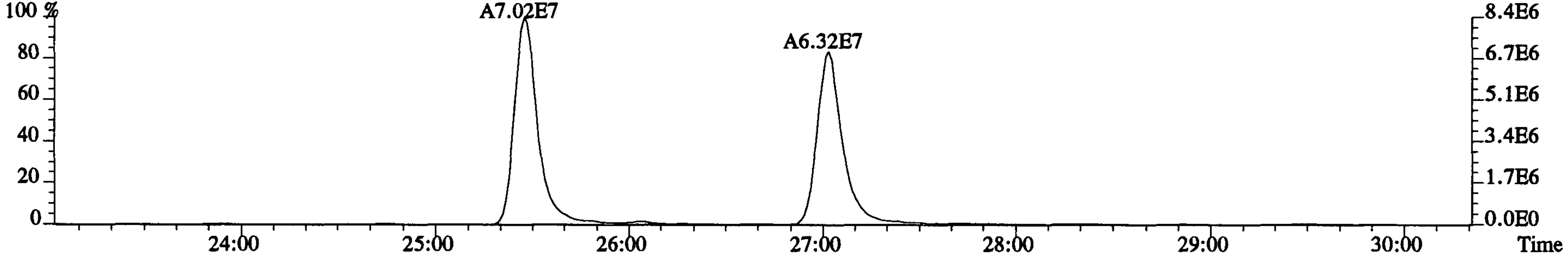
339.8597 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,592.0,1.00%,F,T)



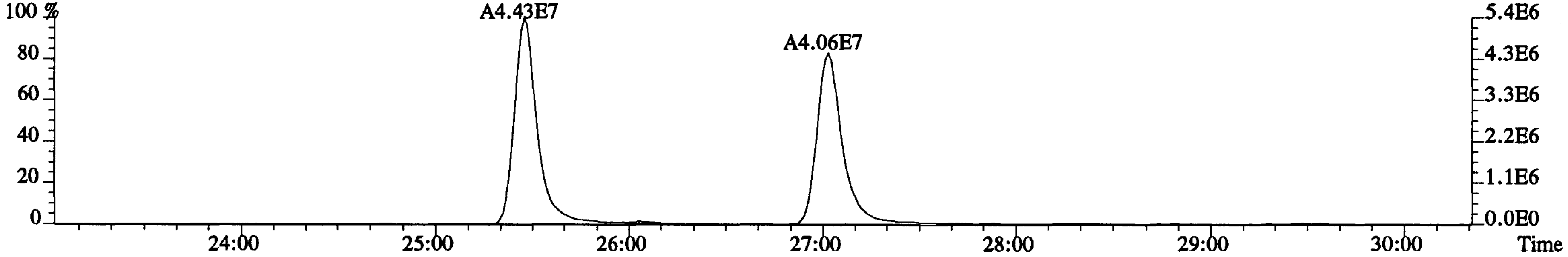
341.8567 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1336.0,1.00%,F,T)



351.9000 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6160.0,1.00%,F,T)

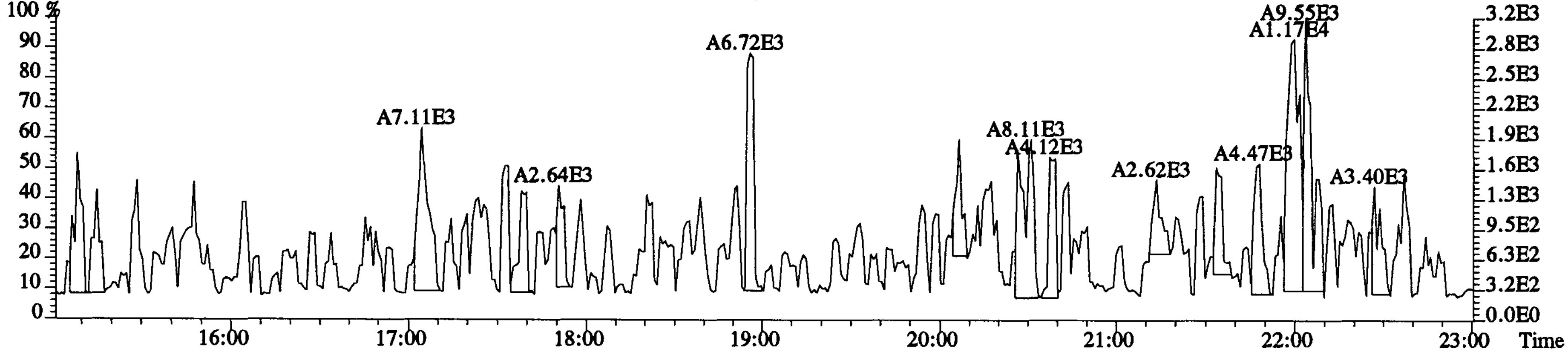


353.8970 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6748.0,1.00%,F,T)

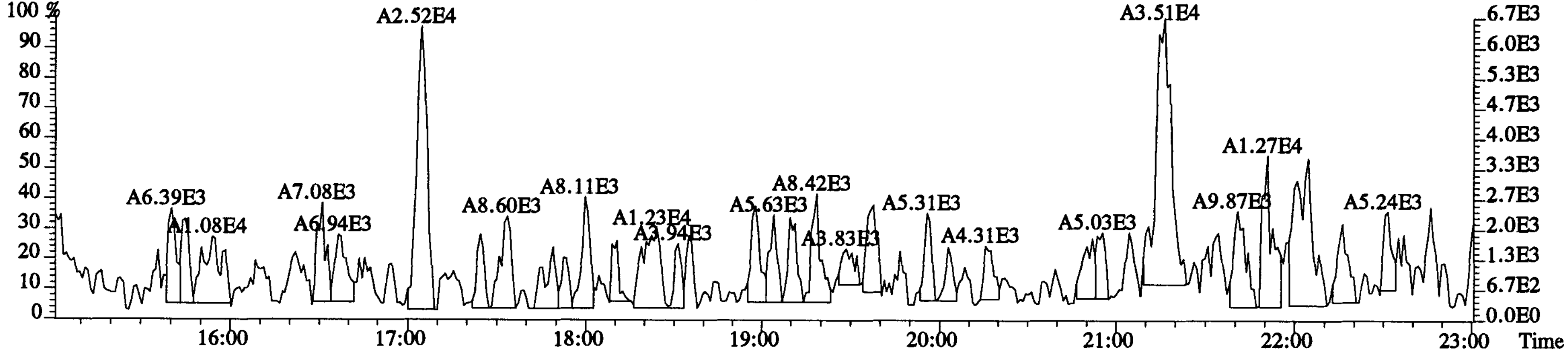


File:14OC104D5 #1-530 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

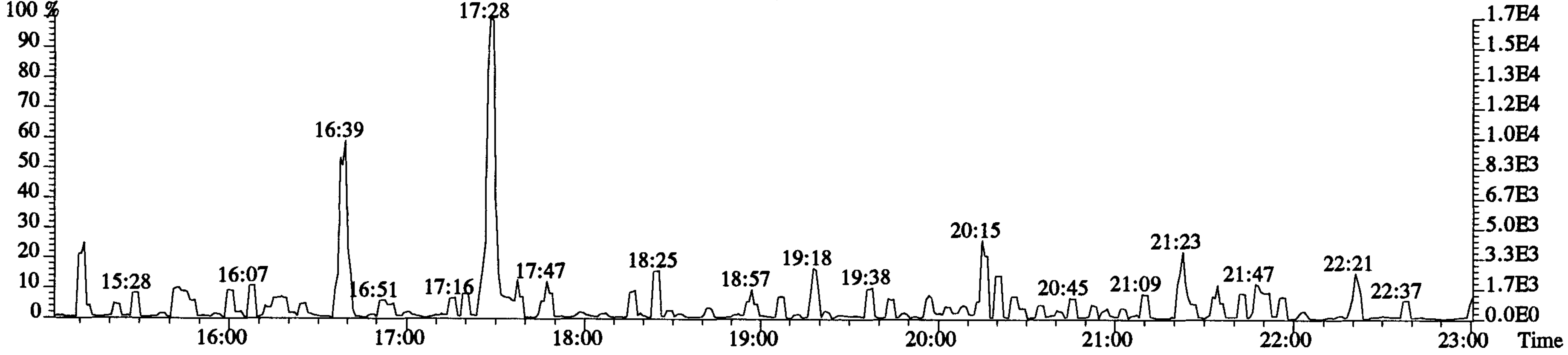
339.8597 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,768.0,1.00%,F,T)



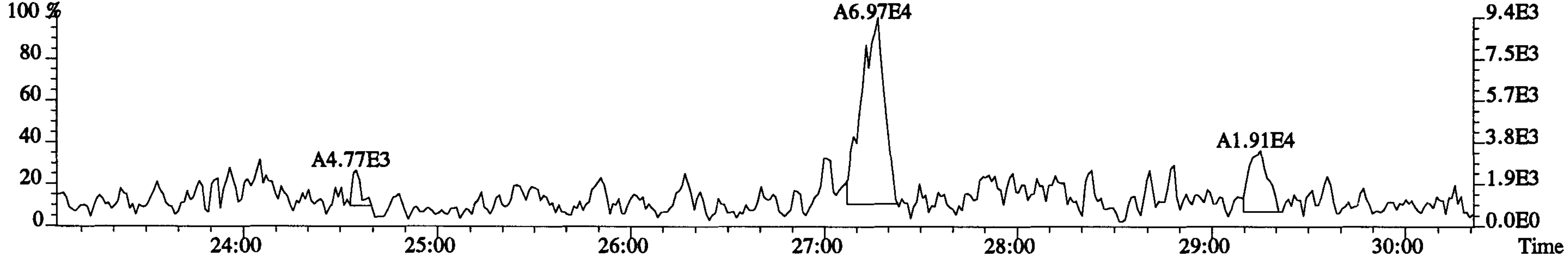
341.8567 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,816.0,1.00%,F,T)



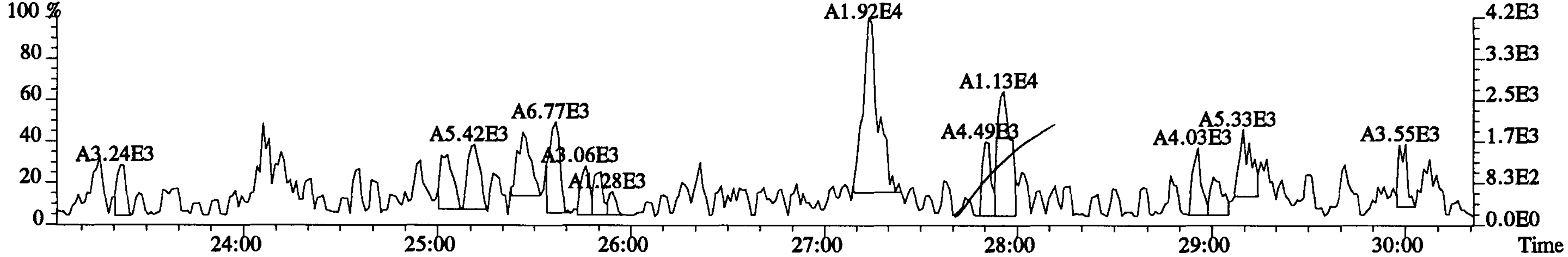
409.7974 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,132.0,1.00%,F,T)



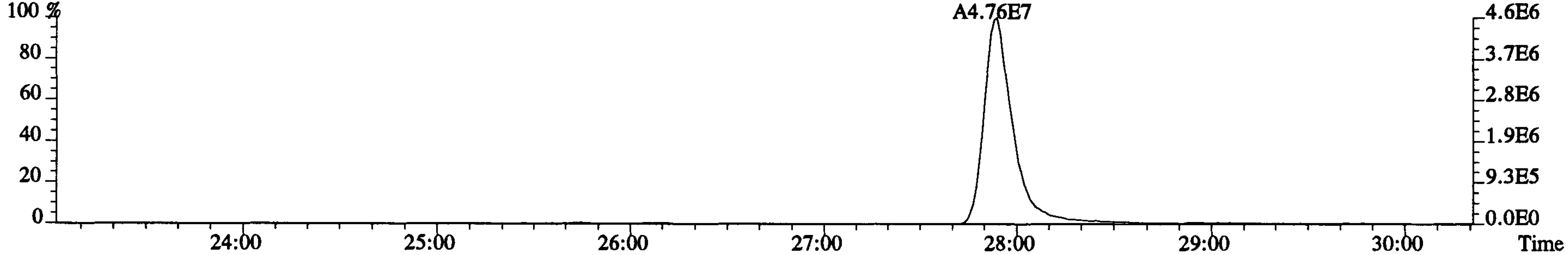
File:14OC104D5 #1-470 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES
355.8546 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1332.0,1.00%,F,T)



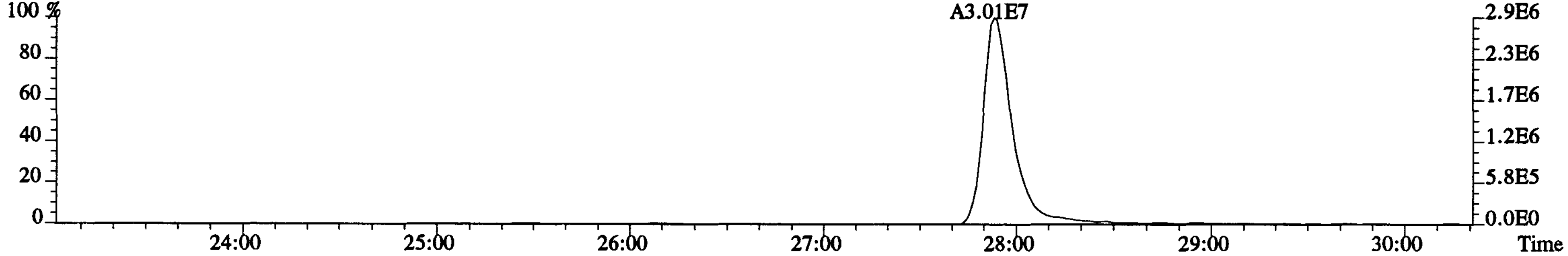
357.8516 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,768.0,1.00%,F,T)



367.8949 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1456.0,1.00%,F,T)

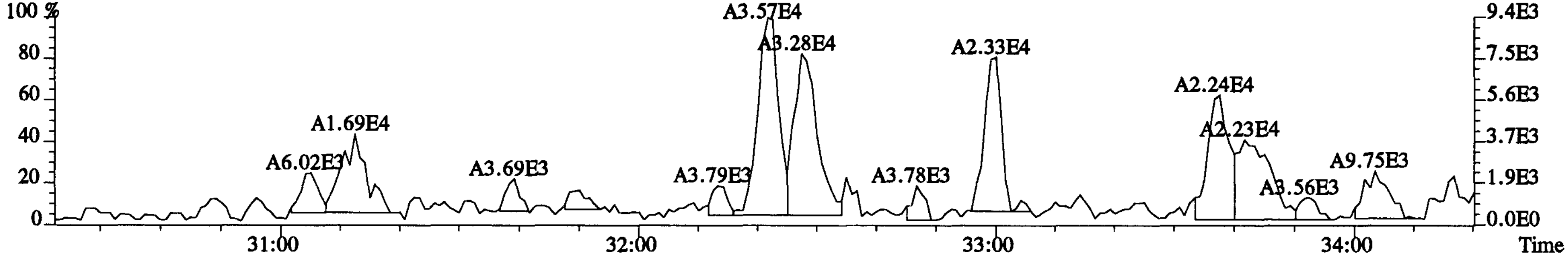


369.8919 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,144.0,1.00%,F,T)

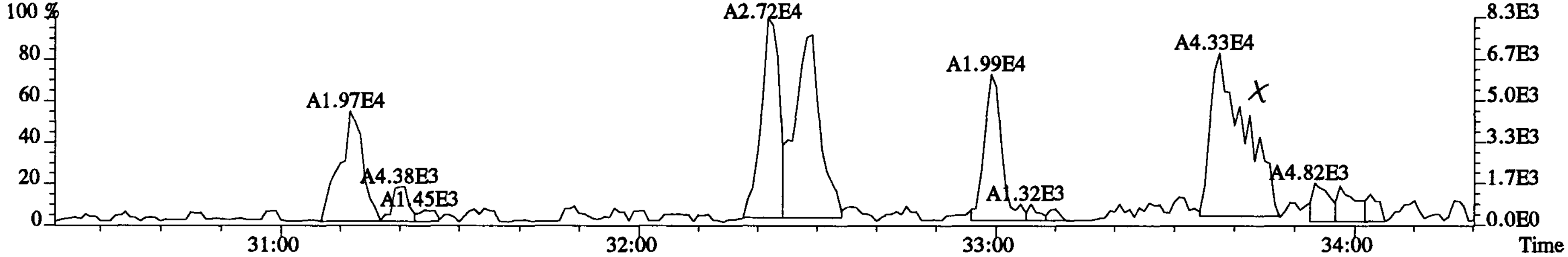


File:14OC104D5 #1-286 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

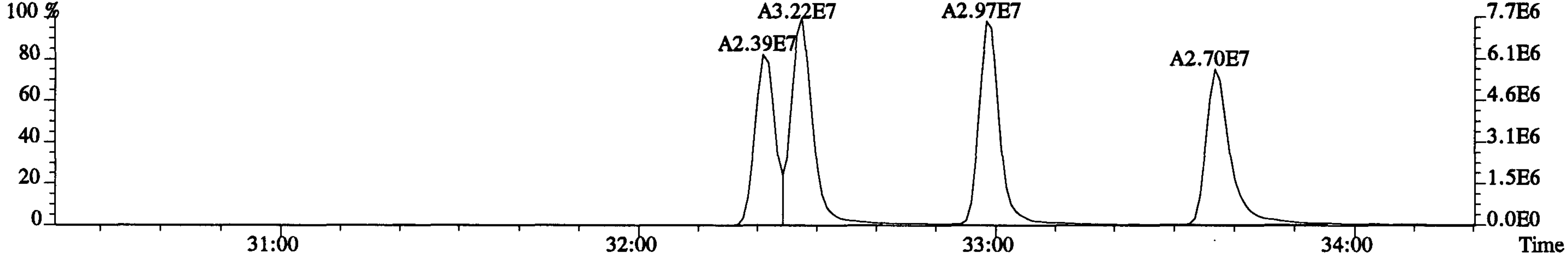
373.8208 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,920.0,1.00%,F,T)



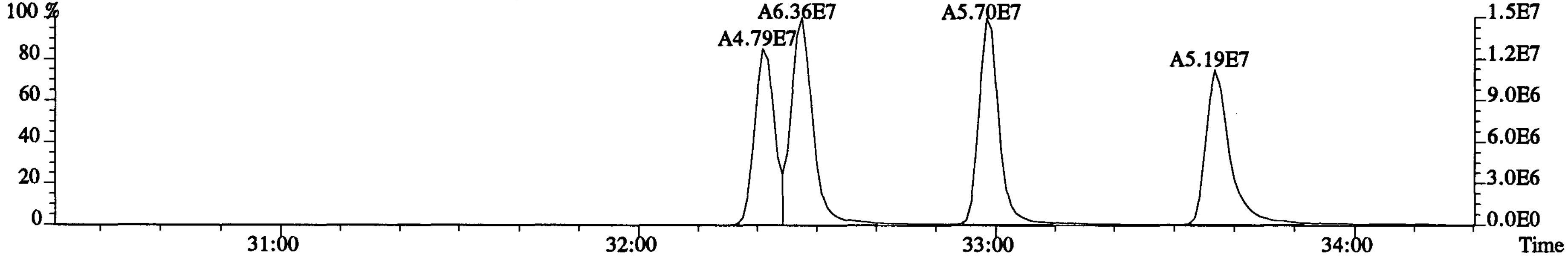
375.8178 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,812.0,1.00%,F,T)



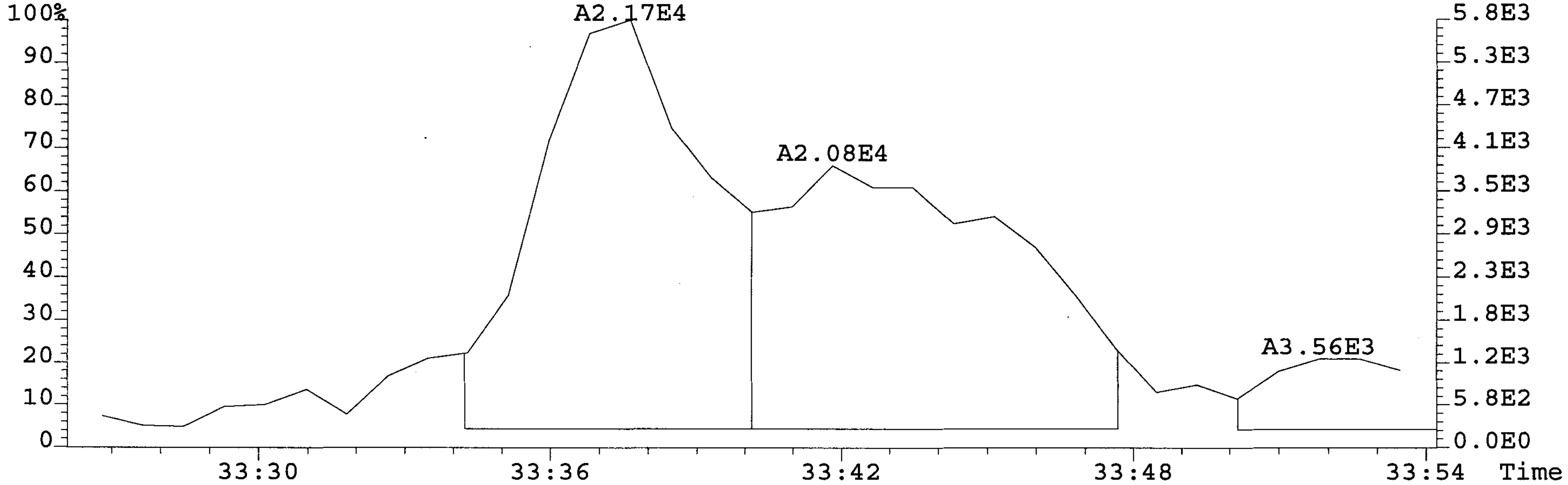
383.8639 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2340.0,1.00%,F,T)



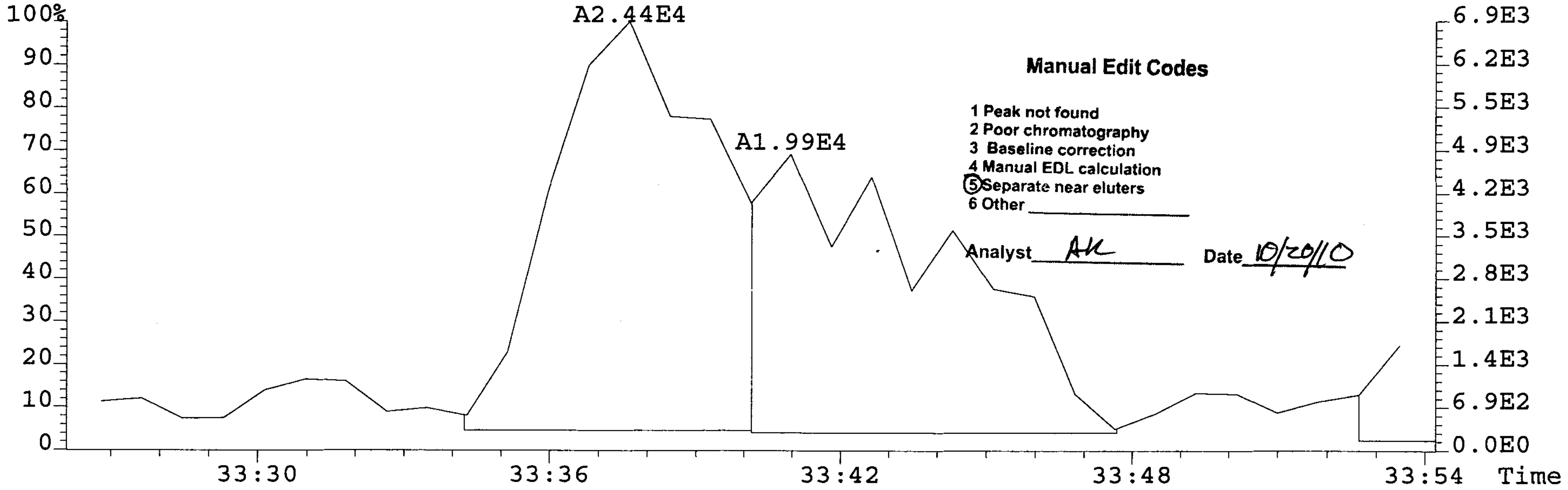
385.8610 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2800.0,1.00%,F,T)



File:14OC104D5 #1-286 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-25 Exp:DIOXINRES
373.8208 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,920.0,1.00%,F,T)



375.8178 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,812.0,1.00%,F,T)



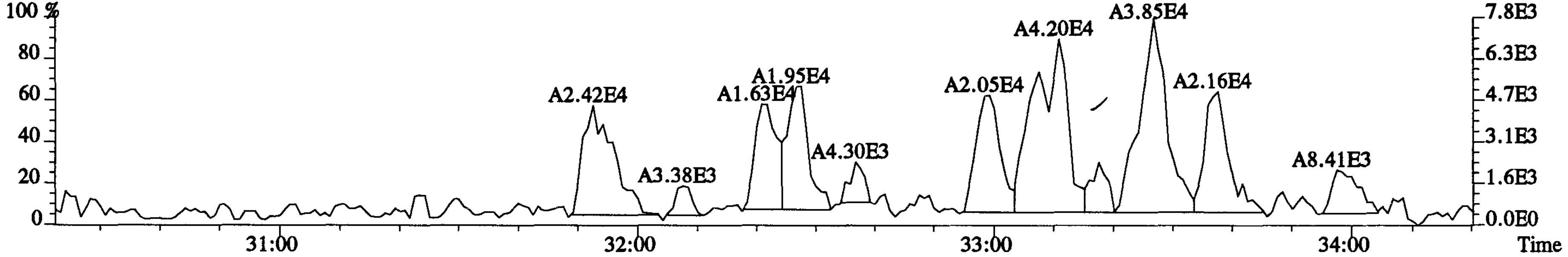
Manual Edit Codes

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

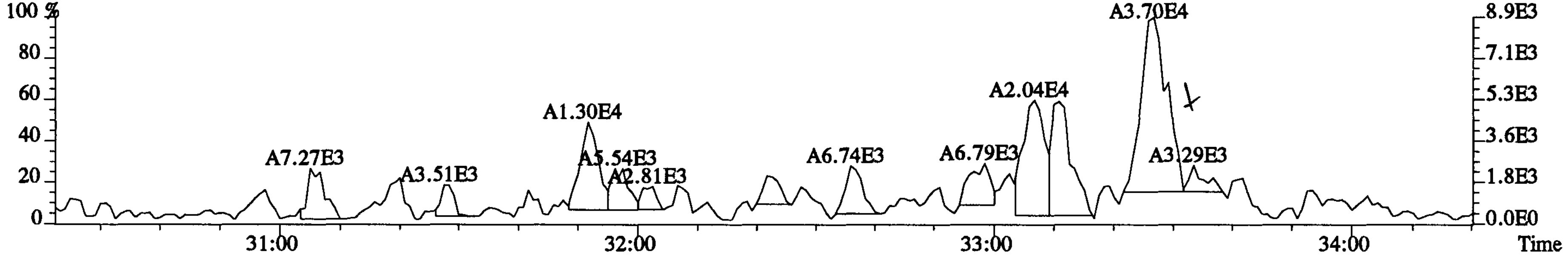
Analyst AK Date 10/20/10

File:14OC104D5 #1-286 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

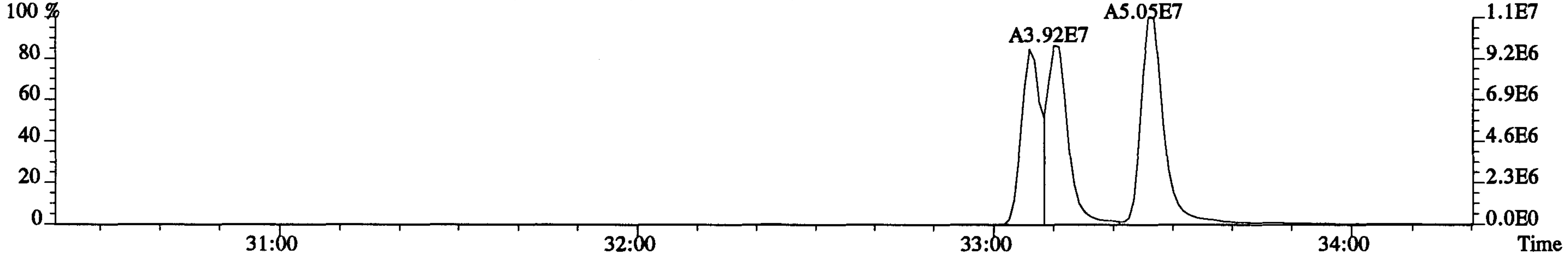
389.8157 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,800.0,1.00%,F,T)



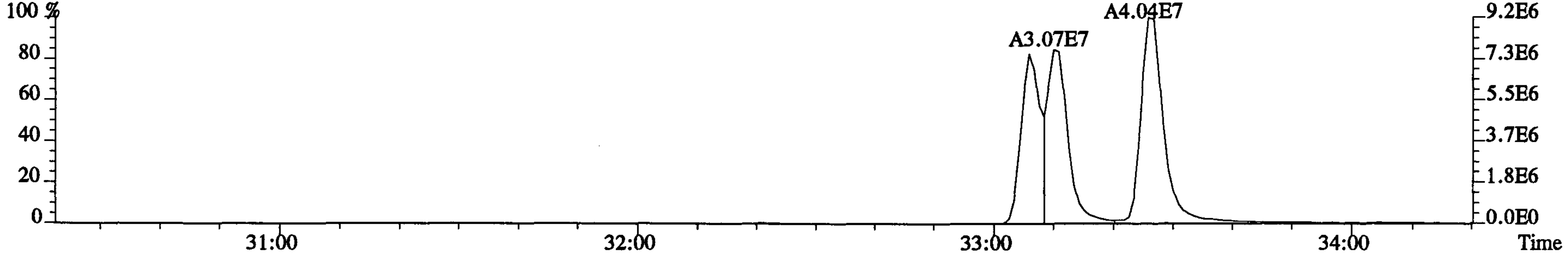
391.8127 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,996.0,1.00%,F,T)



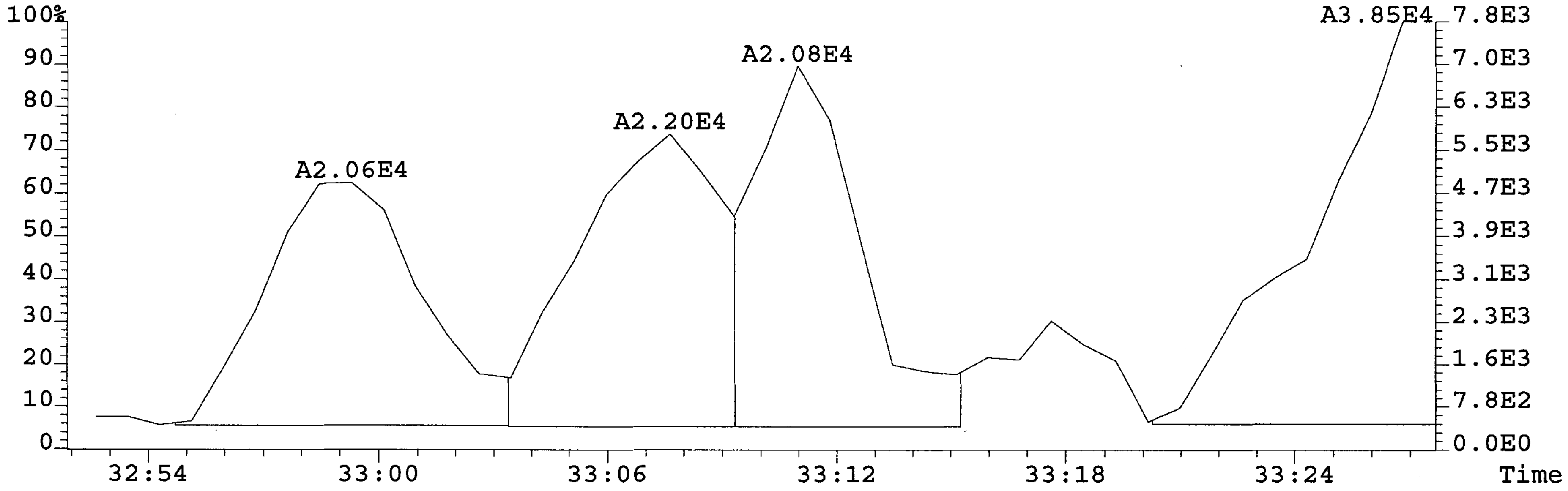
401.8559 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,192.0,1.00%,F,T)



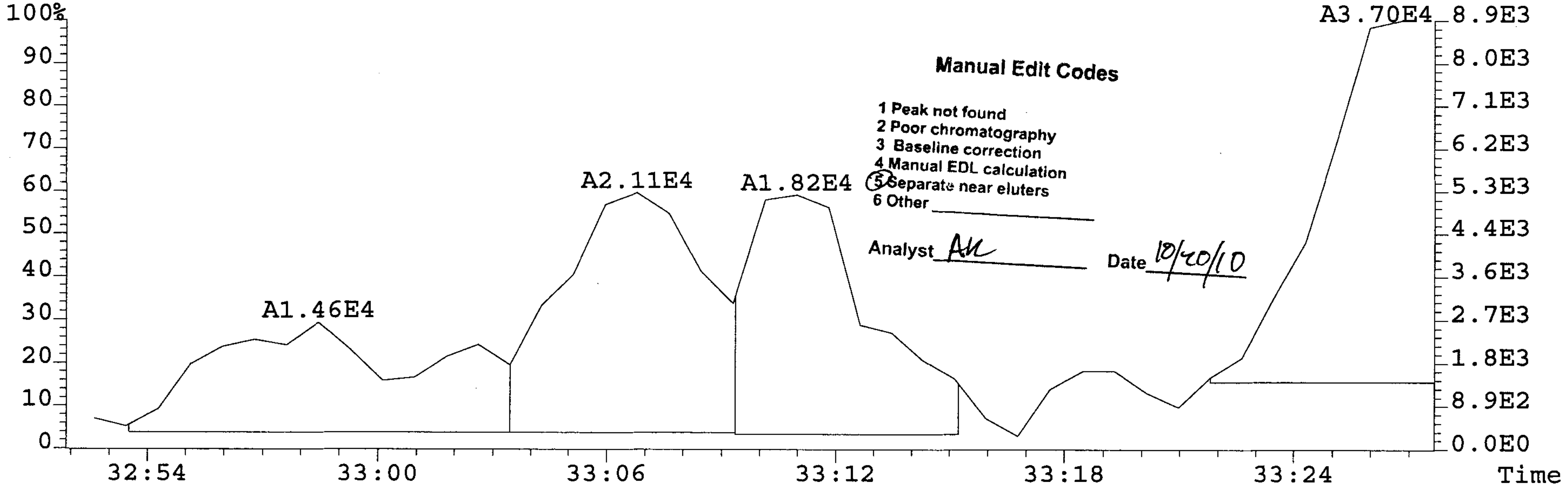
403.8529 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,136.0,1.00%,F,T)



File:14OC104D5 #1-286 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-25 Exp:DIOXINRES
389.8157 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,800.0,1.00%,F,T)



391.8127 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,996.0,1.00%,F,T)



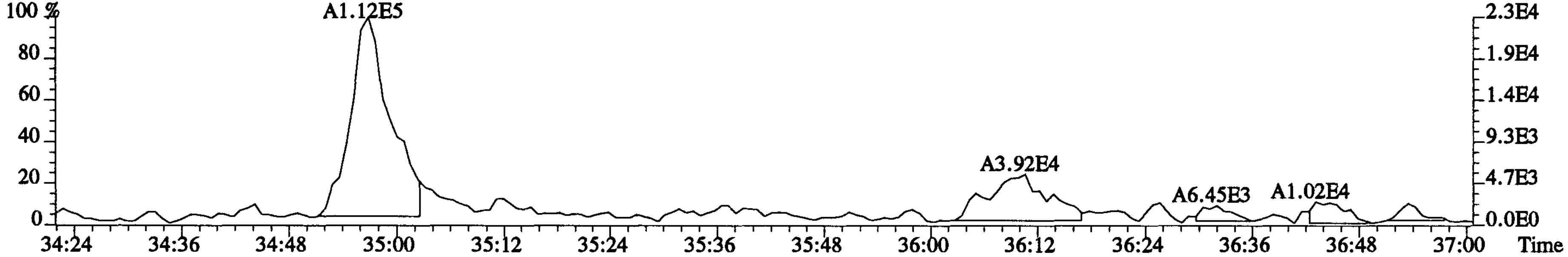
Manual Edit Codes

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

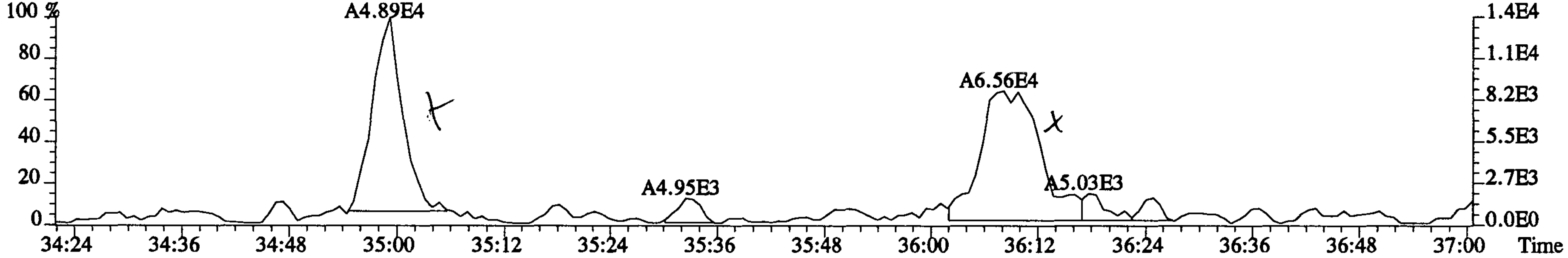
Analyst AK Date 10/20/10

File:14OC104D5 #1-201 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

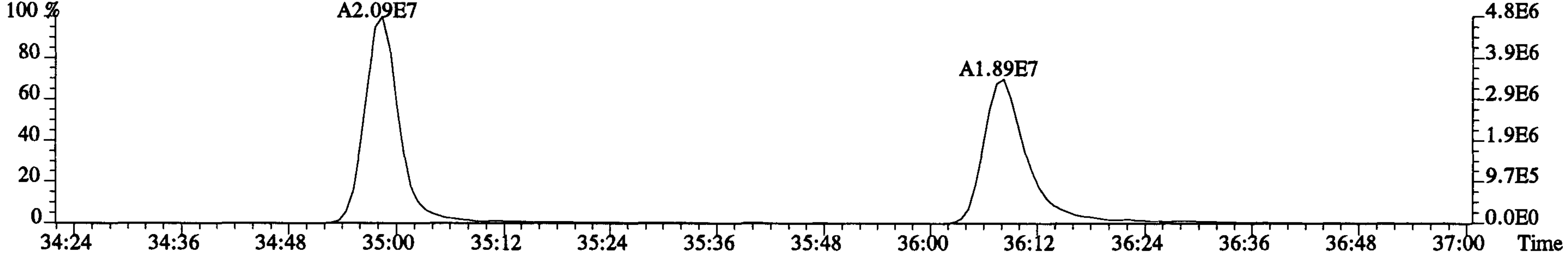
407.7818 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1536.0,1.00%,F,T)



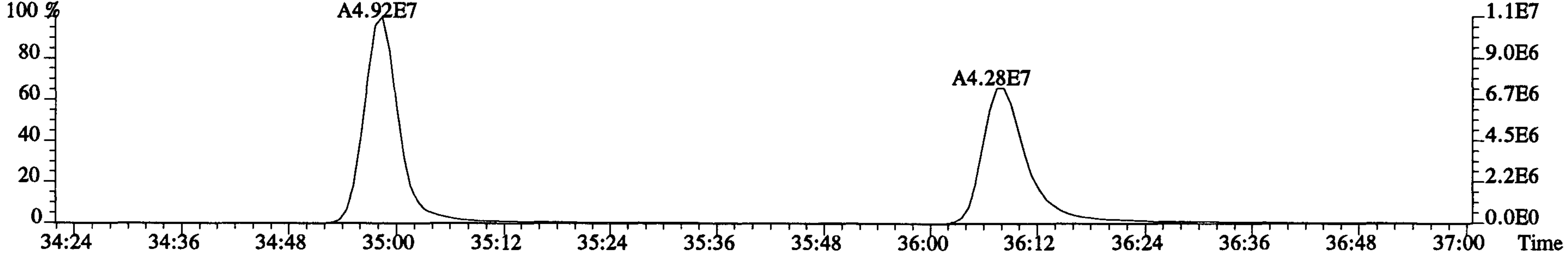
409.7789 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,944.0,1.00%,F,T)



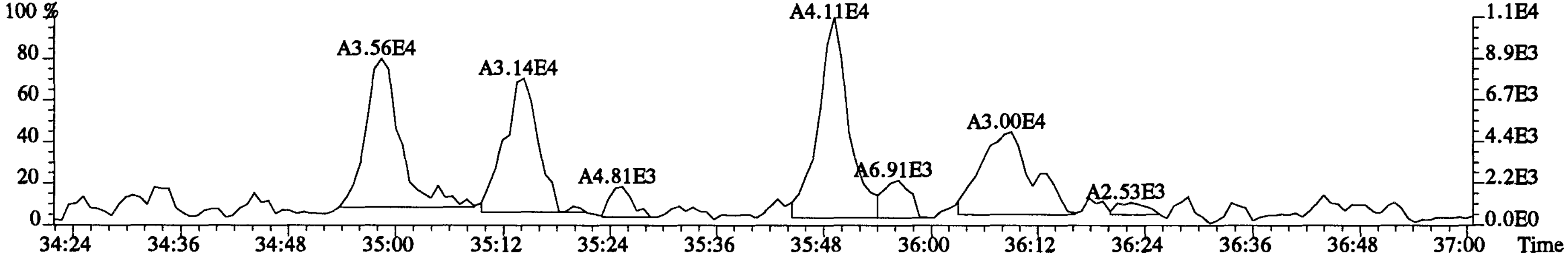
417.8253 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8112.0,1.00%,F,T)



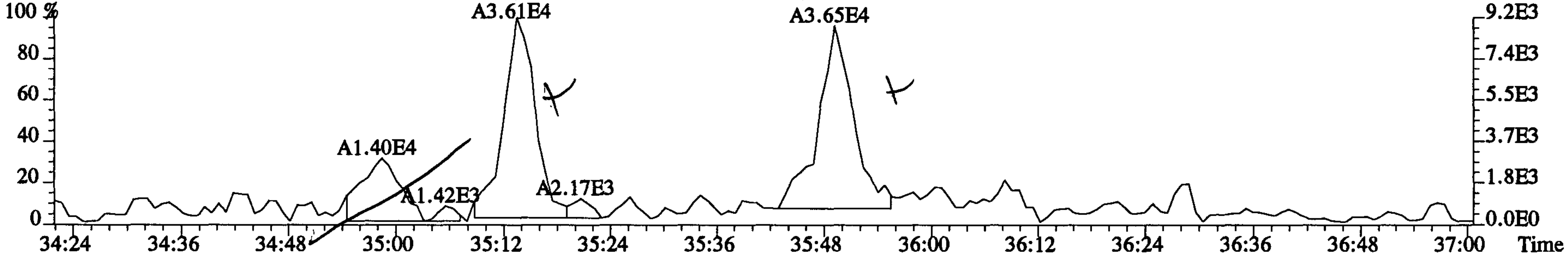
419.8220 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17916.0,1.00%,F,T)



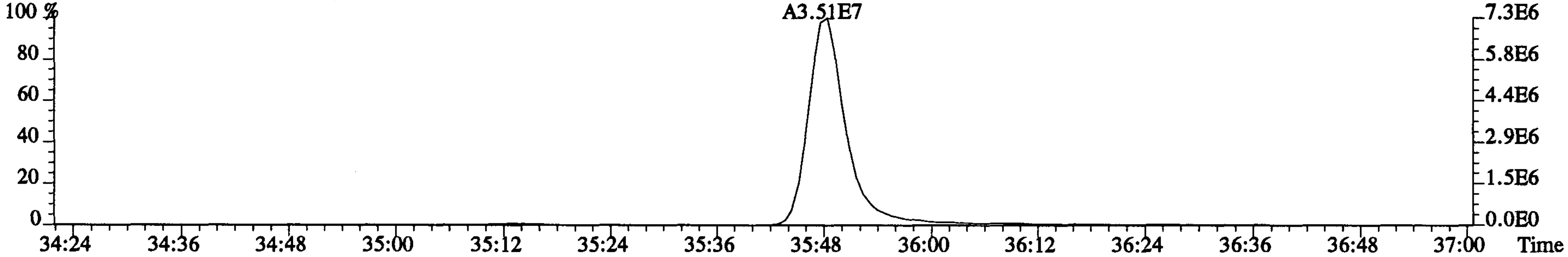
File:14OC104D5 #1-201 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES
423.7766 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1104.0,1.00%,F,T)



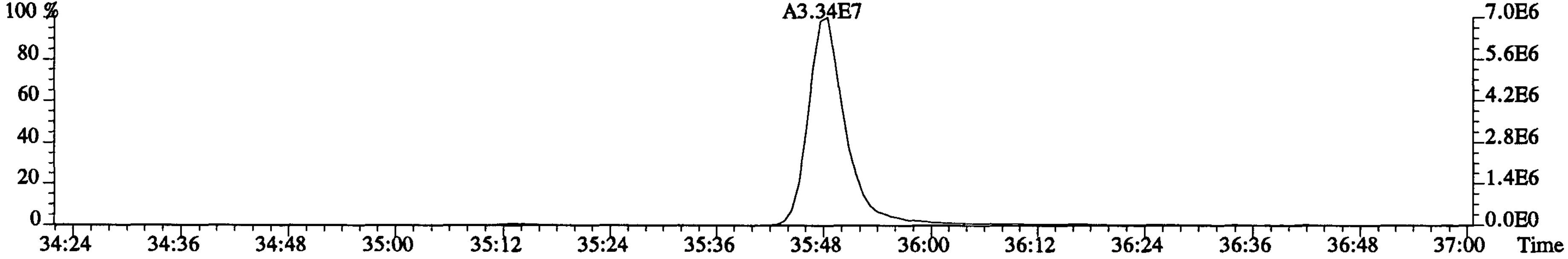
425.7737 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1240.0,1.00%,F,T)



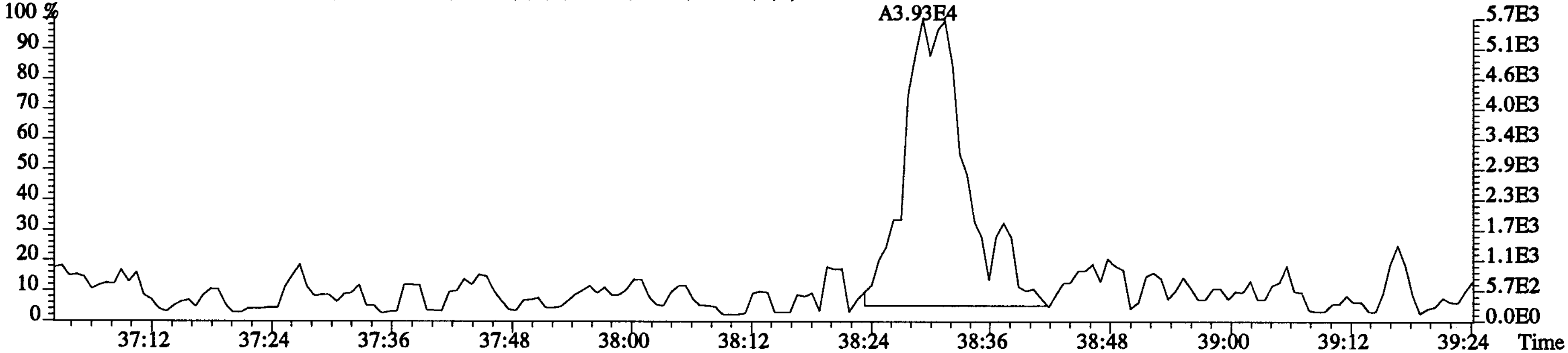
435.8169 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5388.0,1.00%,F,T)



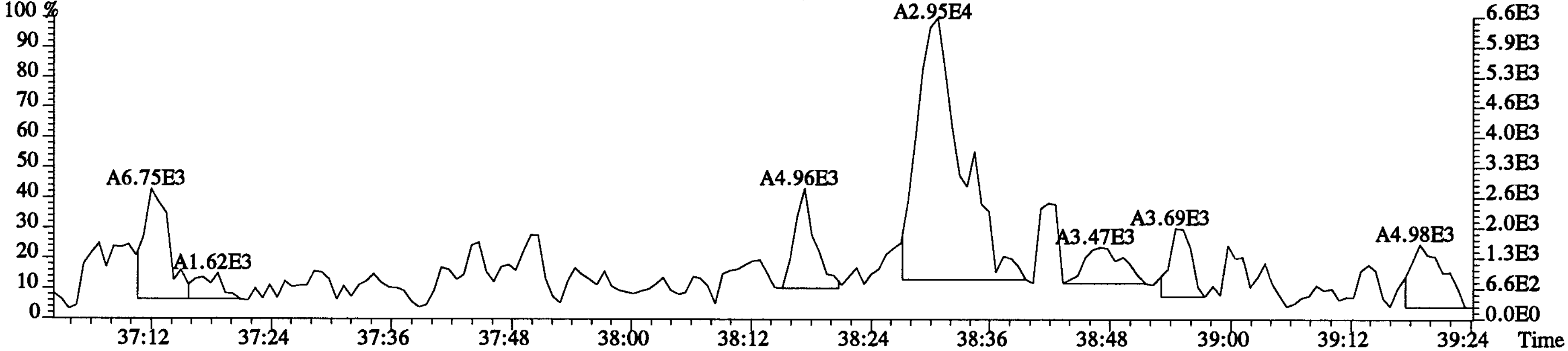
437.8140 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8152.0,1.00%,F,T)



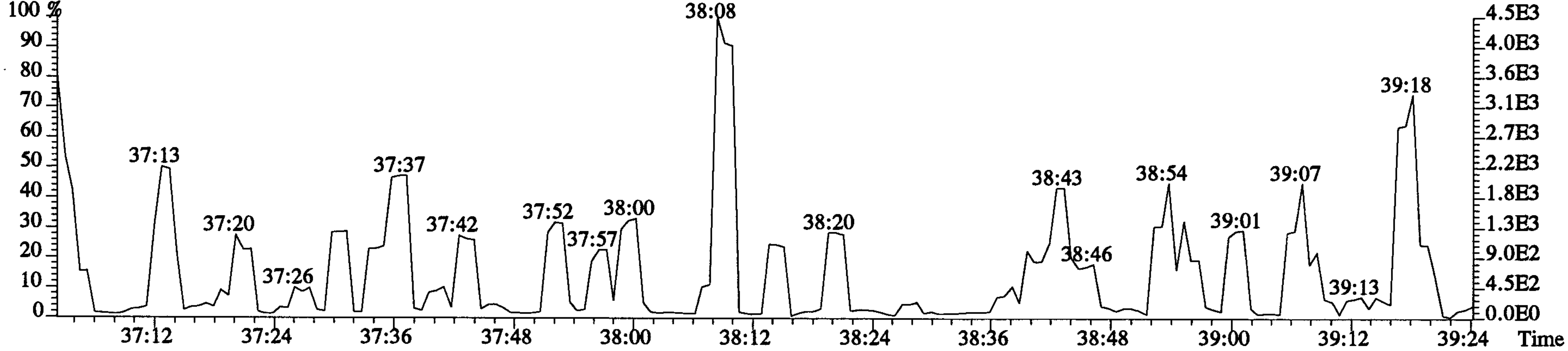
File:14OC104D5 #1-192 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES
441.7428 S:64 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,784.0,1.00%,F,T)



443.7399 S:64 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1104.0,1.00%,F,T)

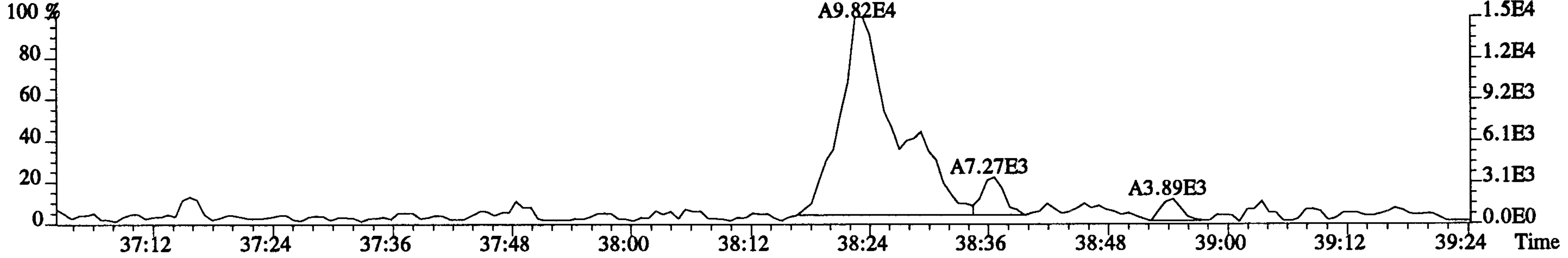


513.6775 S:64 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,116.0,1.00%,F,T)

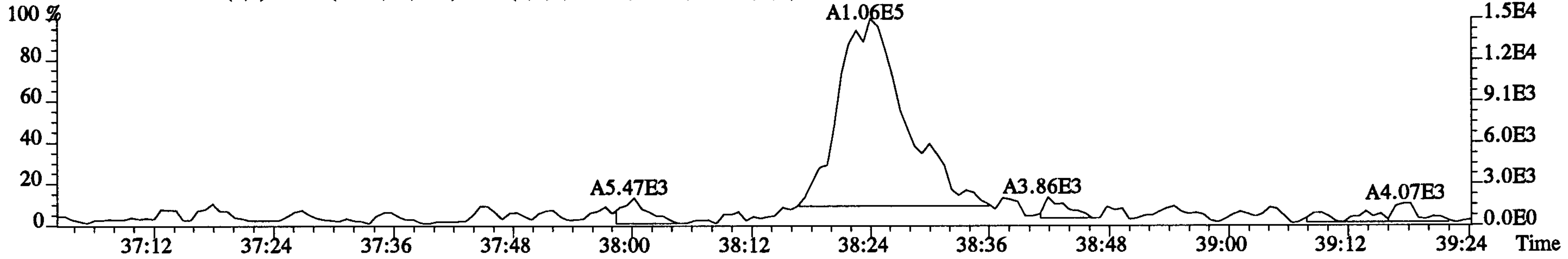


File:14OC104D5 #1-192 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

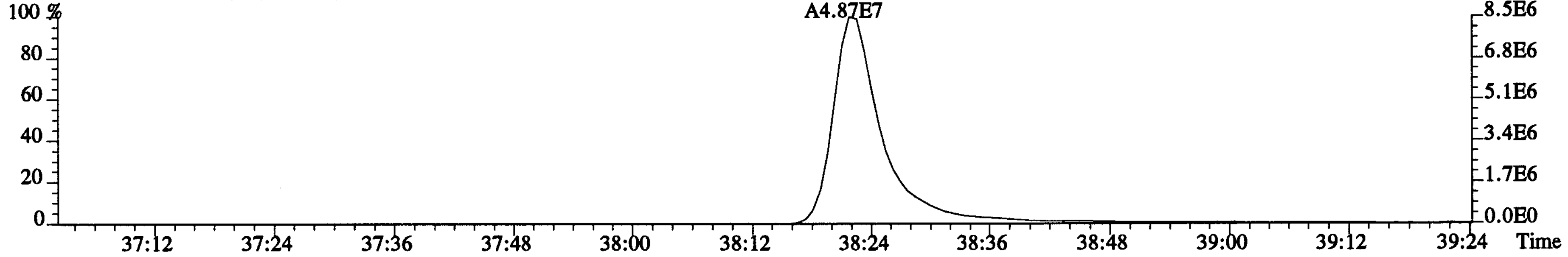
457.7377 S:64 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,832.0,1.00%,F,T)



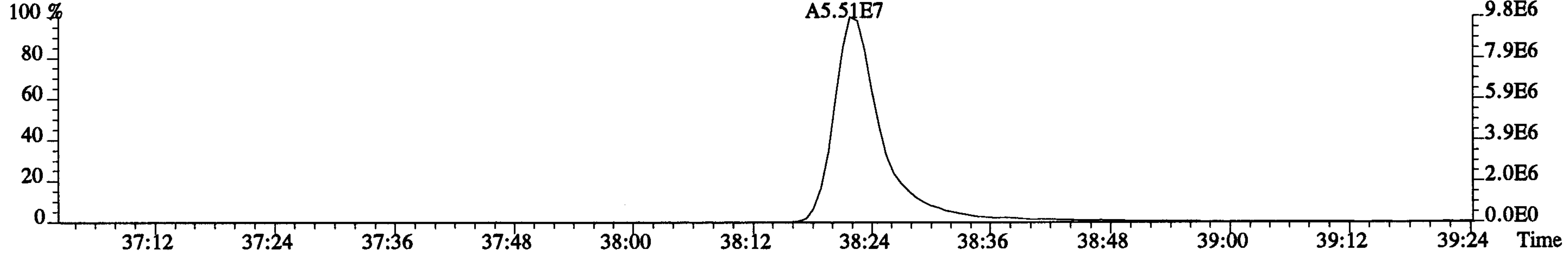
459.7348 S:64 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,724.0,1.00%,F,T)



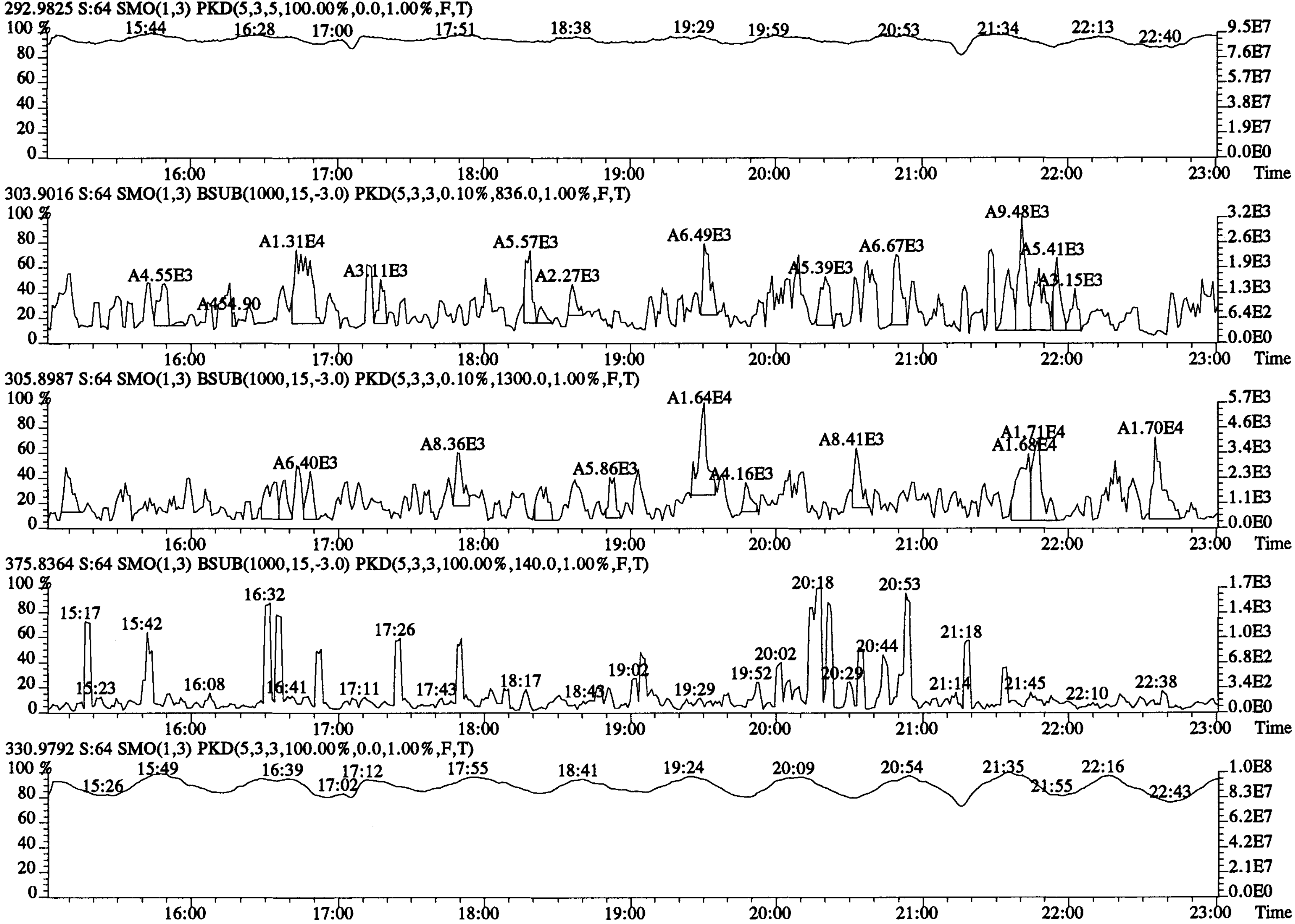
469.7779 S:64 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,112.0,1.00%,F,T)



471.7750 S:64 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,40.0,1.00%,F,T)



File:14OC104D5 #1-530 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES


292.9825 S:64 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

303.9016 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,836.0,1.00%,F,T)

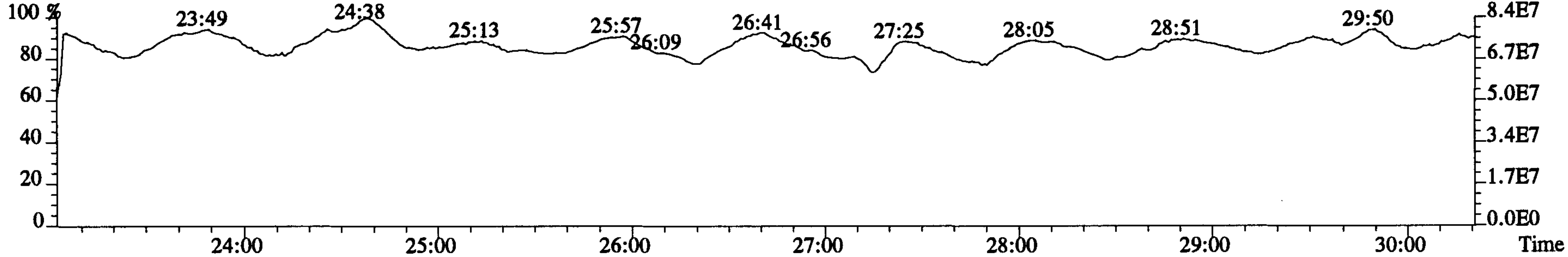
305.8987 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1300.0,1.00%,F,T)

375.8364 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,140.0,1.00%,F,T)

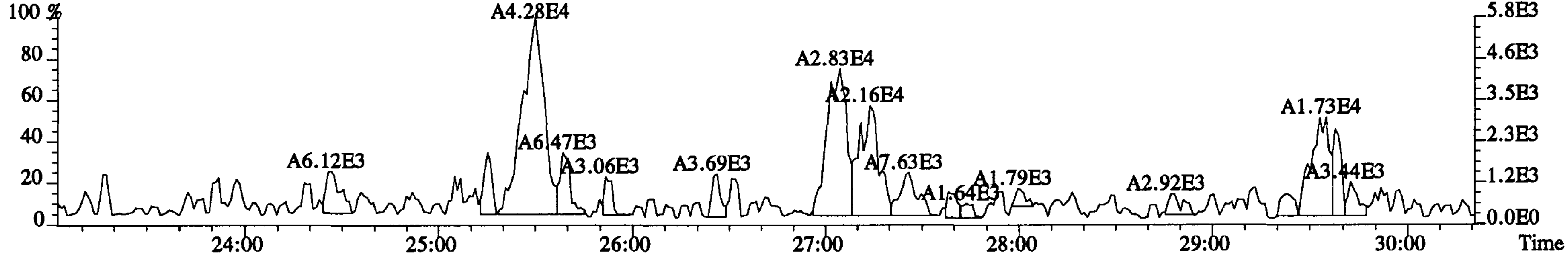
330.9792 S:64 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

File:14OC104D5 #1-470 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

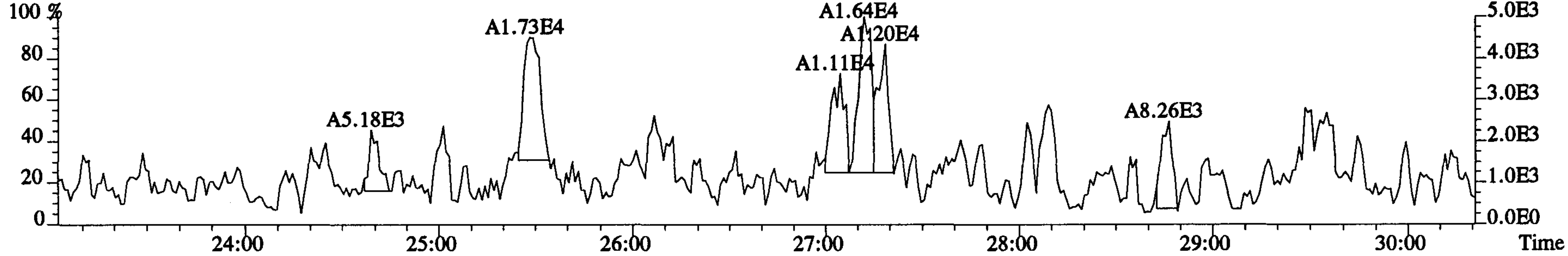
342.9792 S:64 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



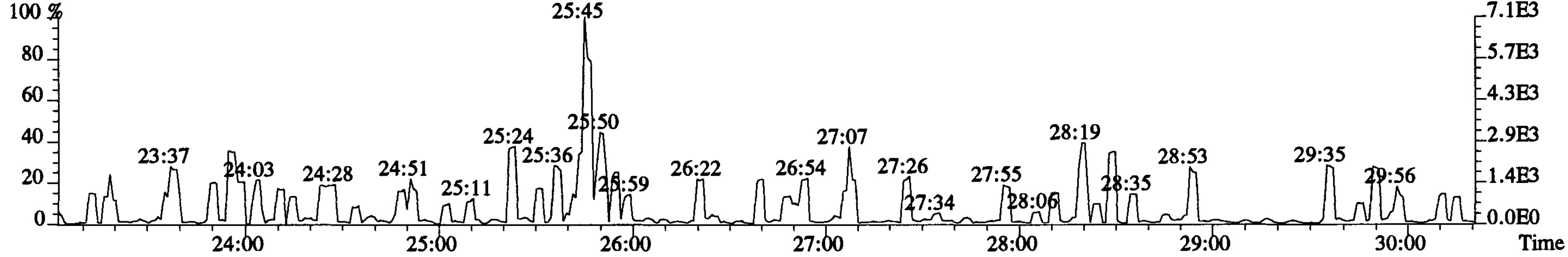
339.8597 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,592.0,1.00%,F,T)



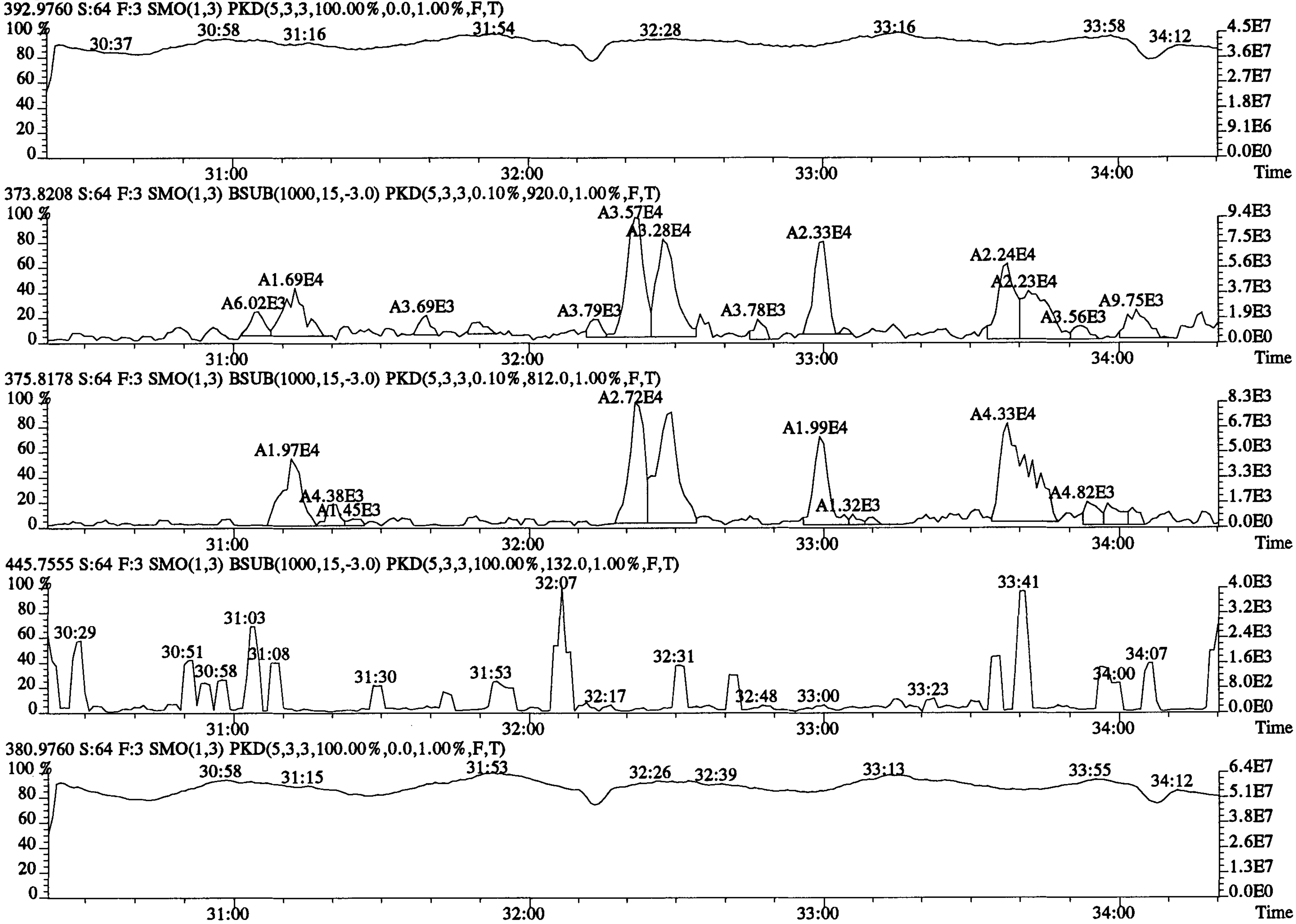
341.8567 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1336.0,1.00%,F,T)



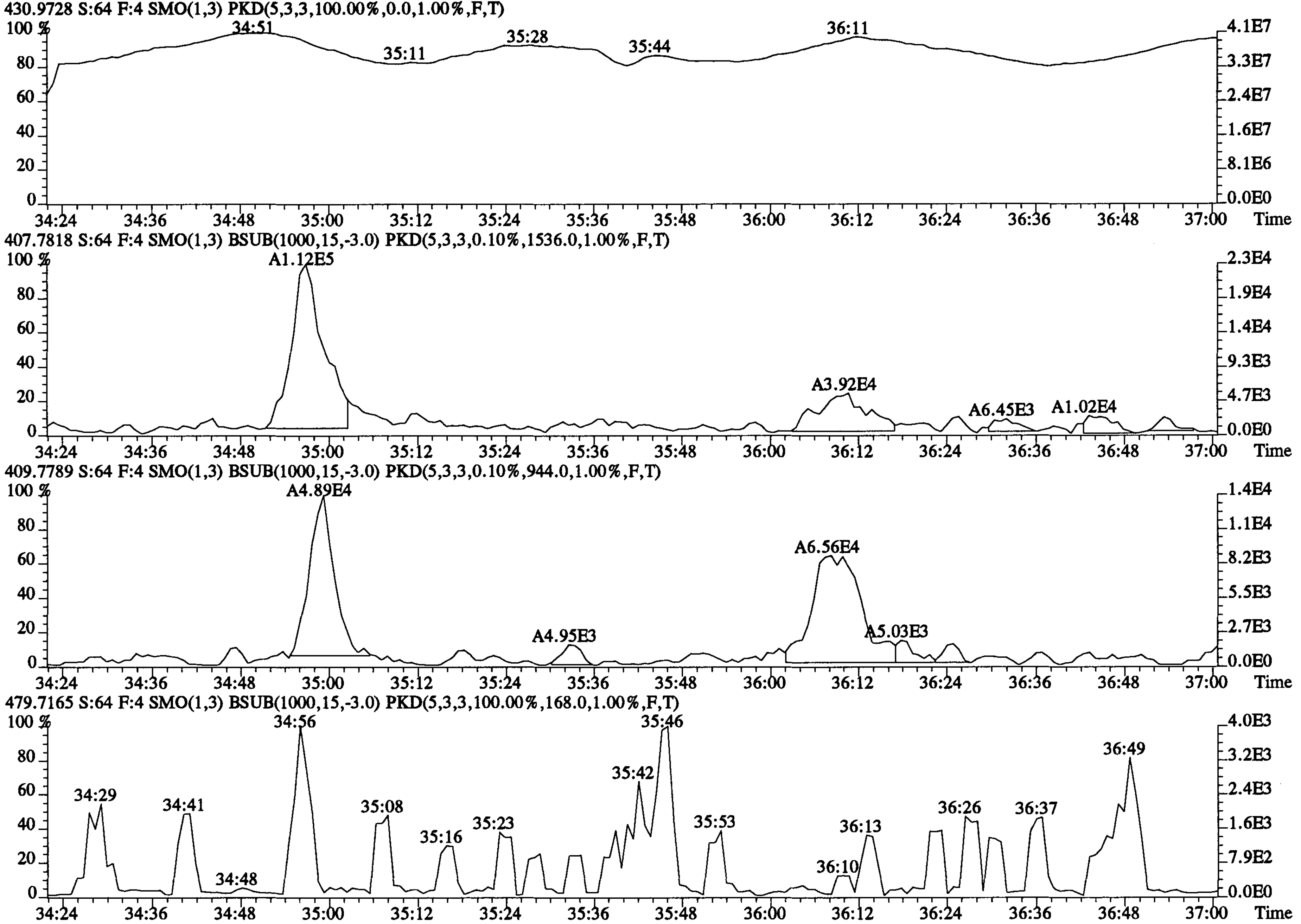
409.7974 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,108.0,1.00%,F,T)



File:14OC104D5 #1-286 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES



File:14OC104D5 #1-201 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

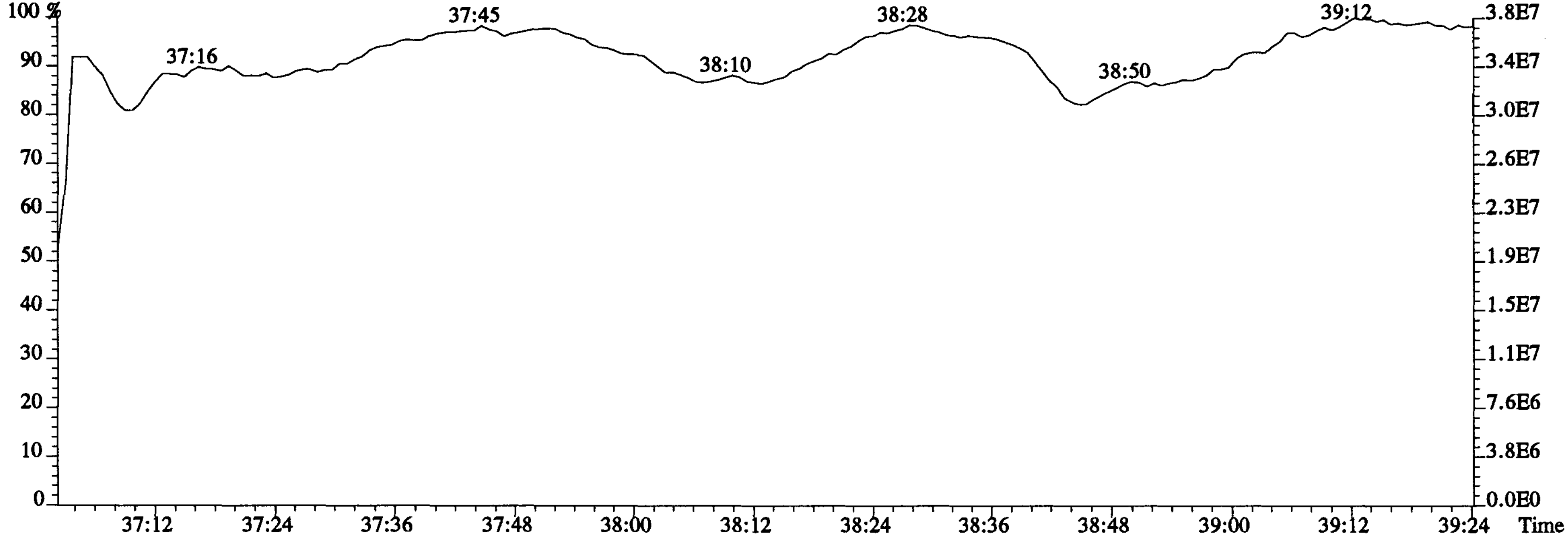

430.9728 S:64 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

407.7818 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1536.0,1.00%,F,T)

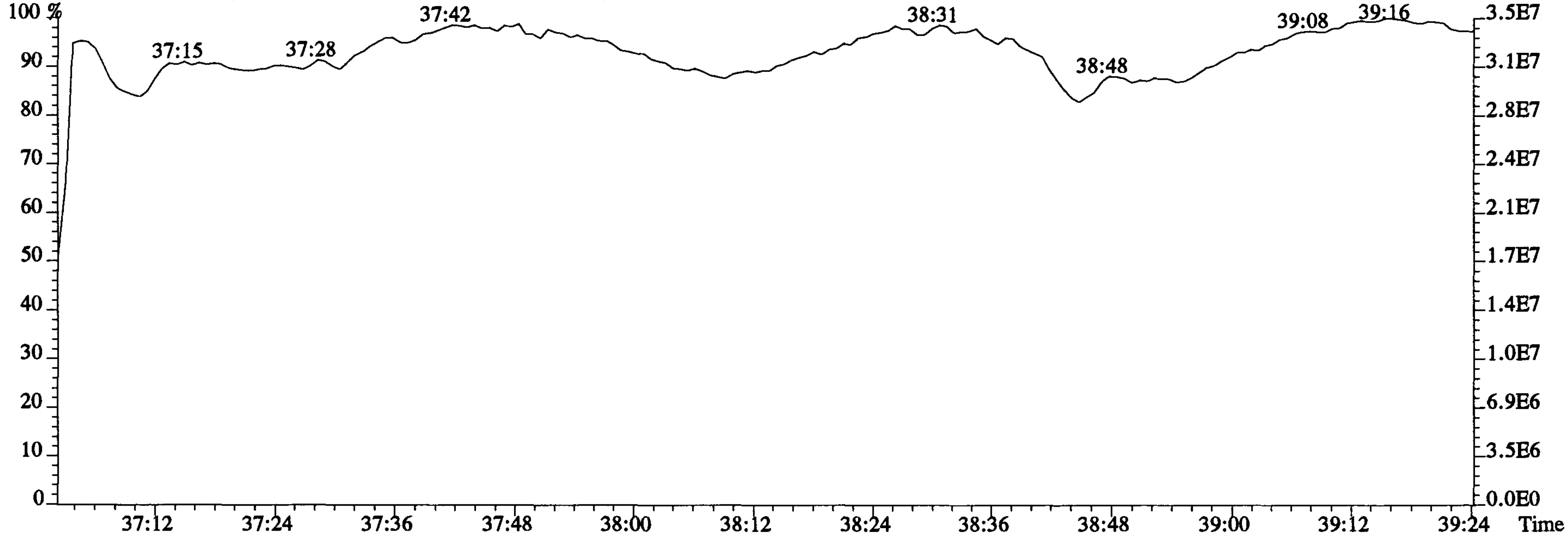
409.7789 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,944.0,1.00%,F,T)

479.7165 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,168.0,1.00%,F,T)

File:14OC104D5 #1-192 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES
454.9728 S:64 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:64 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



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   Quantitation Summary     TestAmerica West Sacramento                           Page 4 o

 Run text: L8A5X-1-AC      Sample text: L8A5X-1-AC :G0J120000-255 (429LCS)╗
 Run #9  Filename: 18OC104D5   S: 13    I: 1      Results: 18OC104D5TO9
 Acquired: 18-OCT-10   18:02:11           Processed: 19-OCT-10  10:01:05
 Run: 18OC104D5        Analyte: TO9        Cal: TO90721104D5
  Factor 1:1600.000     Factor 2:20.000      Sample size: 0.50   SAM


                  Name        Resp   RA       RT  RRF             Conc            EDL       Rec   M

        13C-1,2,3,4-TCDD  77018880 0.78 y  20:05    -           46.120              -         -   n

        13C-2,3,7,8-TCDF  75061202 0.78 y  19:29 1.23         3171.066          3.922      79.3   n
            2,3,7,8-TCDF   7111130 0.77 y  19:30 0.99          381.042          1.451         -   n
              Total TCDF   7294456 1.09 n  18:28 0.99          390.865          1.451         -   n

        13C-2,3,7,8-TCDD  62231500 0.80 y  20:17 0.91         3571.065          7.158      89.3   n
            2,3,7,8-TCDD   5448348 0.77 y  20:19 0.98          356.086          1.257         -   n
              Total TCDD   5628322 0.34 n  15:47 0.98          367.848          1.257         -   n

       37Cl-2,3,7,8-TCDD    109581 1.00 y  20:17 1.33            5.312          0.154       0.3   n

     13C-1,2,3,7,8-PeCDF  62640854 1.56 y  25:23 0.88         3713.571         11.553      92.8   n
         1,2,3,7,8-PeCDF  32712018 1.57 y  25:25 1.08         1940.175          5.799         -   n
         2,3,4,7,8-PeCDF  31776976 1.57 y  26:59 1.05         1940.682          5.971         -   n
          Total F2 PeCDF  65031884 1.05 n  23:47 1.06         3913.527          5.883         -   n
          Total F1 PeCDF     60285 0.49 n  17:04 1.06            3.628          1.899         -   n

     13C-1,2,3,7,8-PeCDD  49416020 1.63 y  27:49 0.66         3883.687          5.129      97.1   n
         1,2,3,7,8-PeCDD  23194018 1.47 y  27:51 0.93         2028.664          6.767         -   n
             Total PeCDD  23328166 9.85 n  27:10 0.93         2040.398          6.767         -   n

   13C-1,2,3,7,8,9-HxCDD  59105452 1.32 y  33:26    -           49.920              -         -   n

   13C-1,2,3,4,7,8-HxCDF  48905735 0.49 y  32:20 1.04         3167.851          1.187      79.2   n
       1,2,3,4,7,8-HxCDF  29175113 1.13 y  32:21 1.22         1960.368          0.552         -   n
       1,2,3,6,7,8-HxCDF  33741910 1.11 y  32:27 1.28         2153.311          0.524         -   n
       2,3,4,6,7,8-HxCDF  33848828 1.12 y  32:59 1.23         2244.574          0.544         -   n
       1,2,3,7,8,9-HxCDF  29084650 1.14 y  33:36 1.10         2166.189          0.612         -   n
             Total HxCDF 125850501 1.13 y  32:21 1.21         8524.442          0.556         -   n

   13C-1,2,3,6,7,8-HxCDD  45129584 1.27 y  33:10 0.83         3676.224          0.316      91.9   n
       1,2,3,4,7,8-HxCDD  23605795 1.26 y  33:06 1.04         2017.253          2.104         -   n
       1,2,3,6,7,8-HxCDD  26590868 1.28 y  33:11 1.16         2026.884          1.877         -   n
       1,2,3,7,8,9-HxCDD  28582638 1.27 y  33:26 1.18         2143.813          1.847         -   n
             Total HxCDD  78779301 1.26 y  33:06 1.13         6187.950          1.936         -   n

 13C-1,2,3,4,6,7,8-HpCDF  47453742 0.44 y  34:57 0.91         3528.993         14.586      88.2   n
     1,2,3,4,6,7,8-HpCDF  35582368 1.07 y  34:58 1.35         2228.701          8.930         -   n
     1,2,3,4,7,8,9-HpCDF  31572338 1.06 y  36:08 1.09         2433.893         10.991         -   n
             Total HpCDF  67154706 1.07 y  34:58 1.22         4662.595          9.854         -   n

 13C-1,2,3,4,6,7,8-HpCDD  44944188 1.07 y  35:47 0.83         3679.658          4.266      92.0   n
     1,2,3,4,6,7,8-HpCDD  24607470 1.05 y  35:48 1.07         2043.533          8.457         -   n
             Total HpCDD  24733674 1.03 y  35:13 1.07         2054.014          8.457         -   n

                13C-OCDD  80134604 0.89 y  38:21 0.62         8748.471          0.147     109.4   n
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AK
10/20/10

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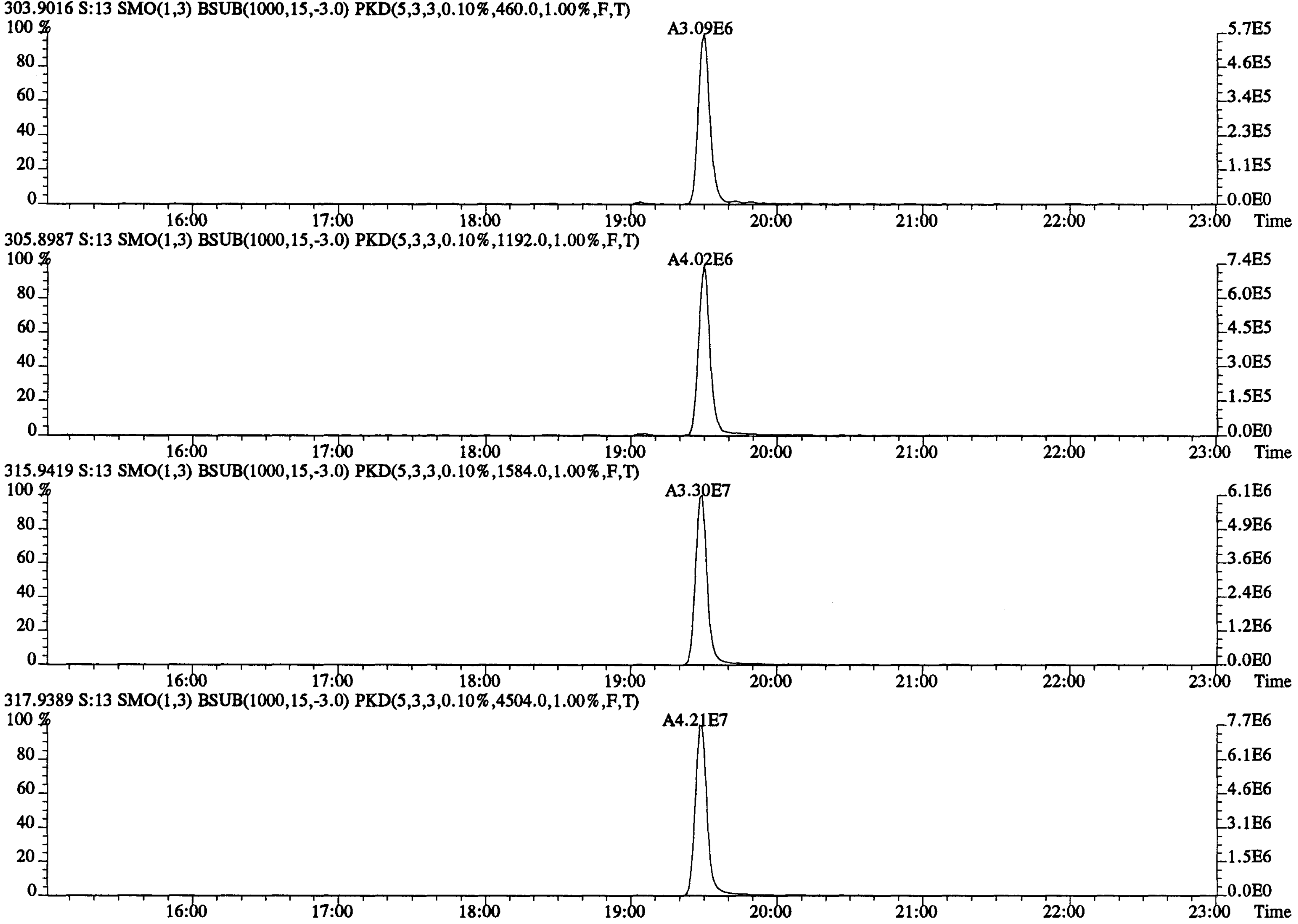
OCDF   53360426 0.90 y  38:29 1.37       3887.536          2.178         -   n
OCDD   49196940 0.89 y  38:22 1.20       4095.187          8.677         -   n
```

File:18OC104D5 #1-530 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES


303.9016 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,460.0,1.00%,F,T)

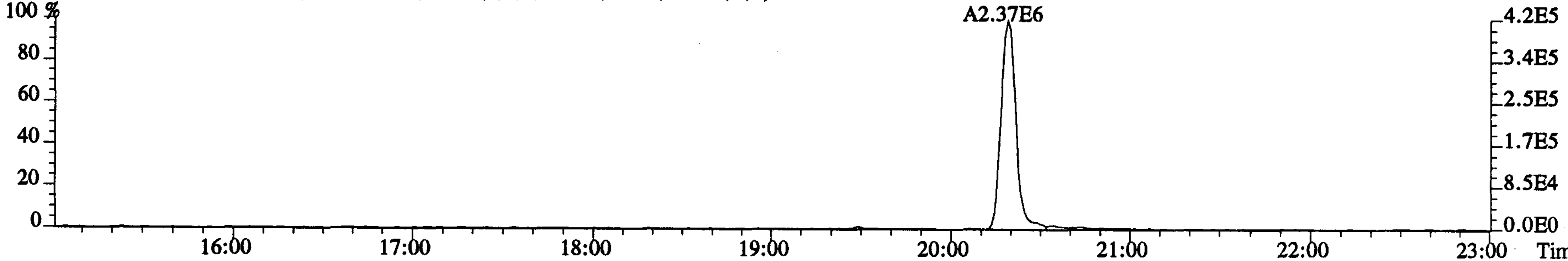
305.8987 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1192.0,1.00%,F,T)

315.9419 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1584.0,1.00%,F,T)

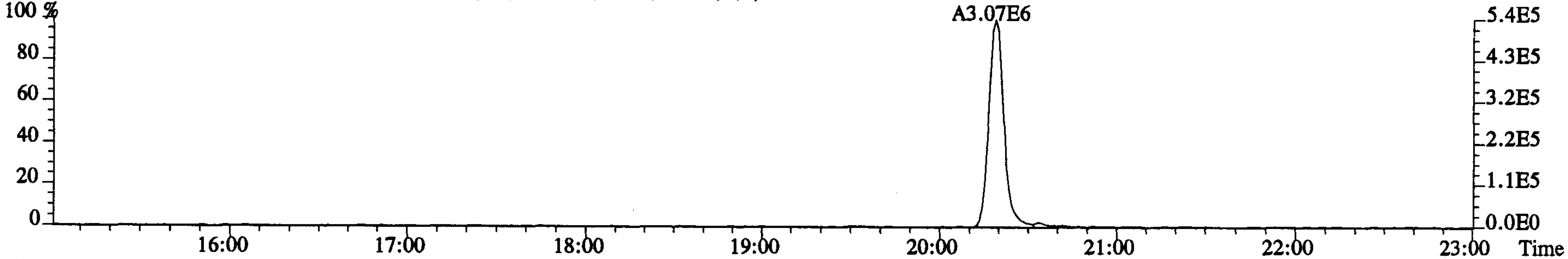
317.9389 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4504.0,1.00%,F,T)

File:18OC104D5 #1-530 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES

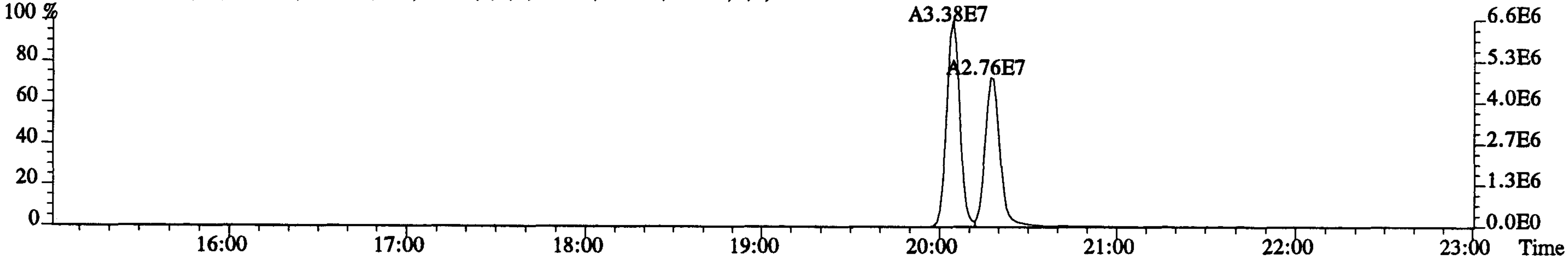
319.8965 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,148.0,1.00%,F,T)



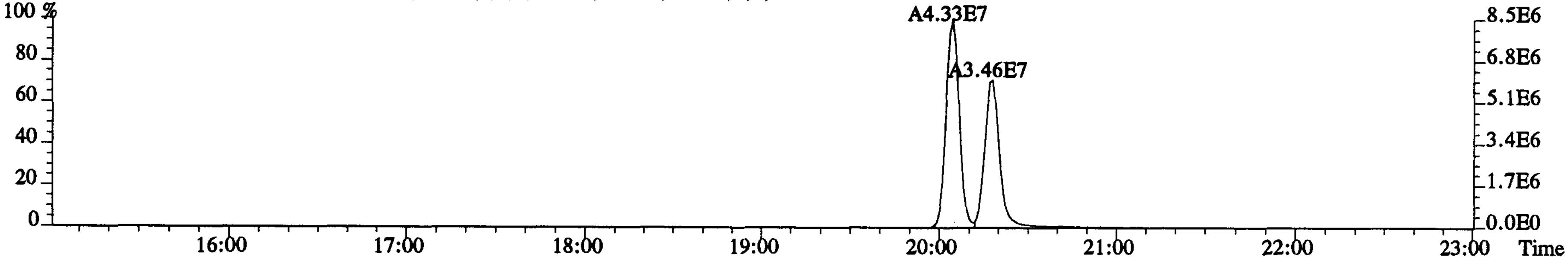
321.8936 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,968.0,1.00%,F,T)



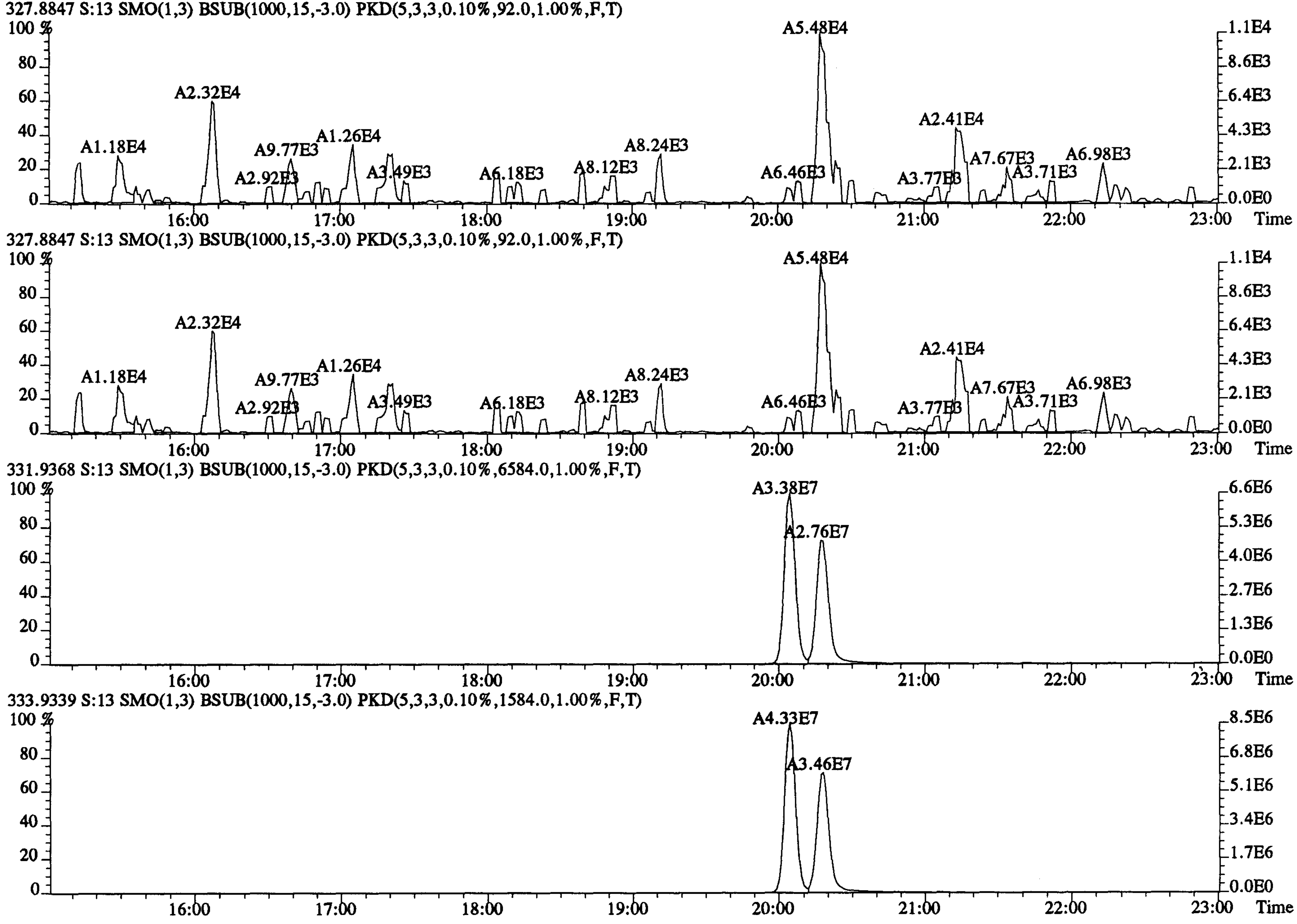
331.9368 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6584.0,1.00%,F,T)



333.9339 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1584.0,1.00%,F,T)

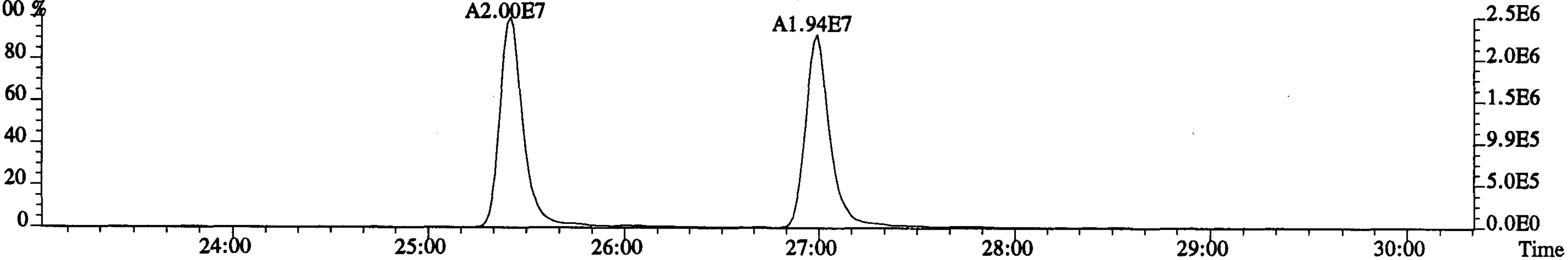


File:18OC104D5 #1-530 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES

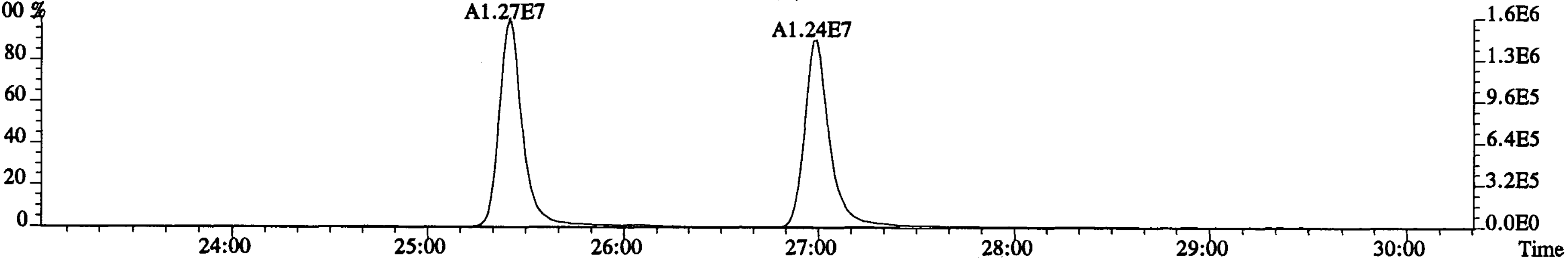


File:18OC104D5 #1-470 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES

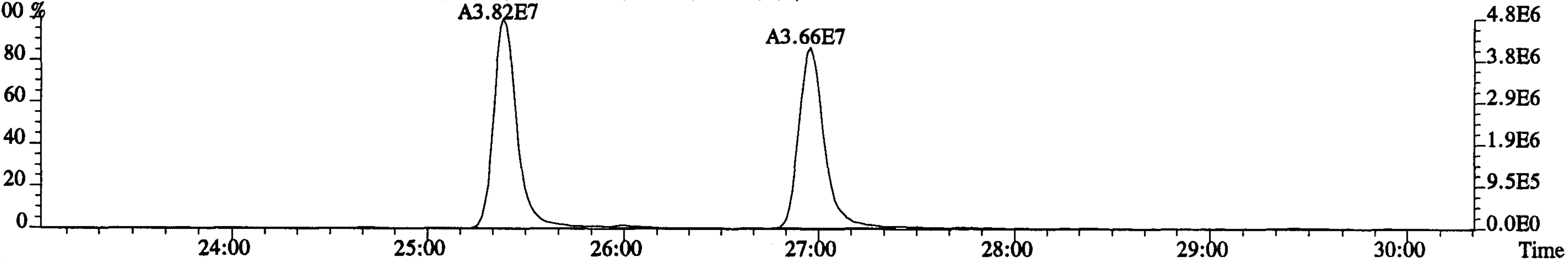
339.8597 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1828.0,1.00%,F,T)



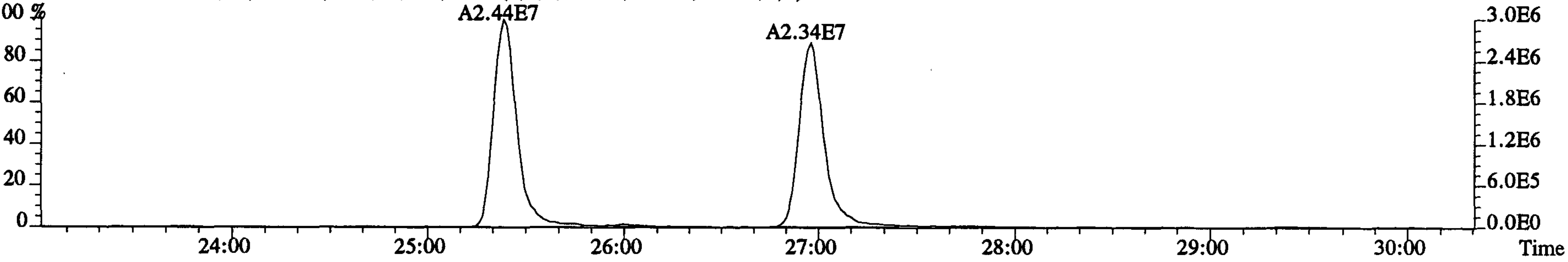
341.8567 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2212.0,1.00%,F,T)



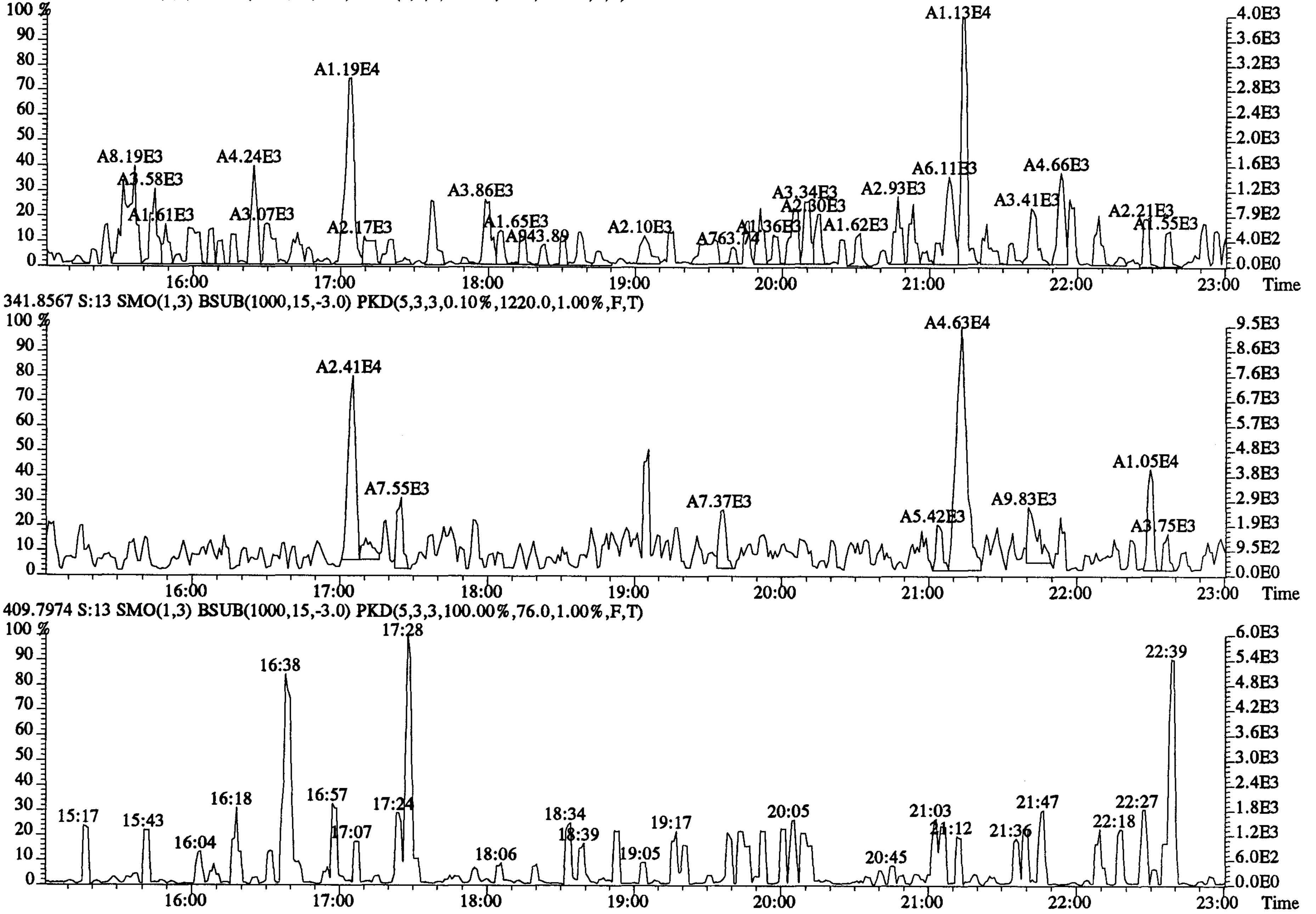
351.9000 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6124.0,1.00%,F,T)



353.8970 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6656.0,1.00%,F,T)

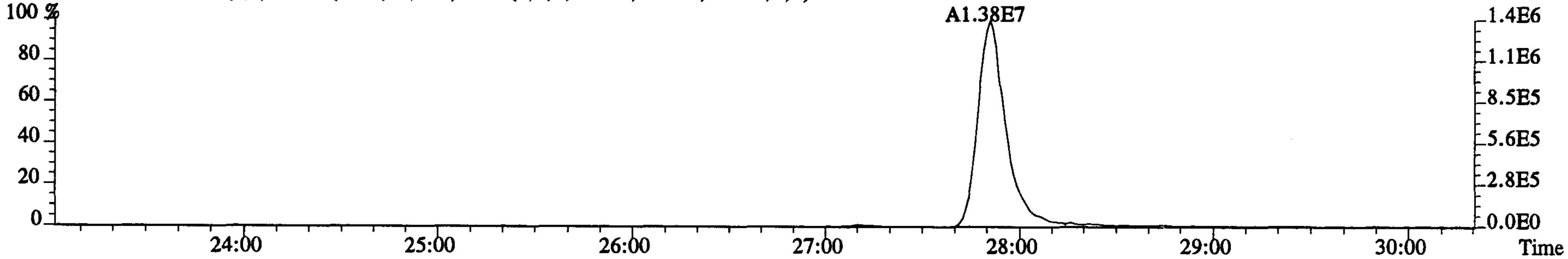


File:18OC104D5 #1-530 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES
339.8597 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,84.0,1.00%,F,T)

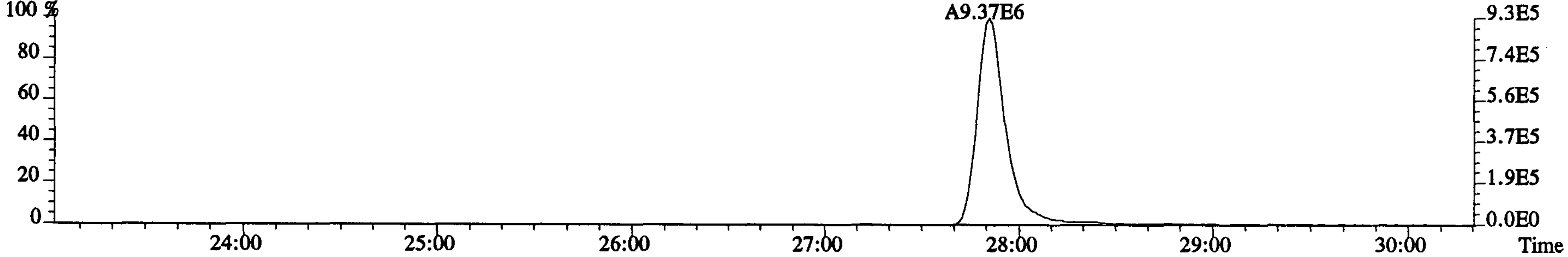


File:18OC104D5 #1-470 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES

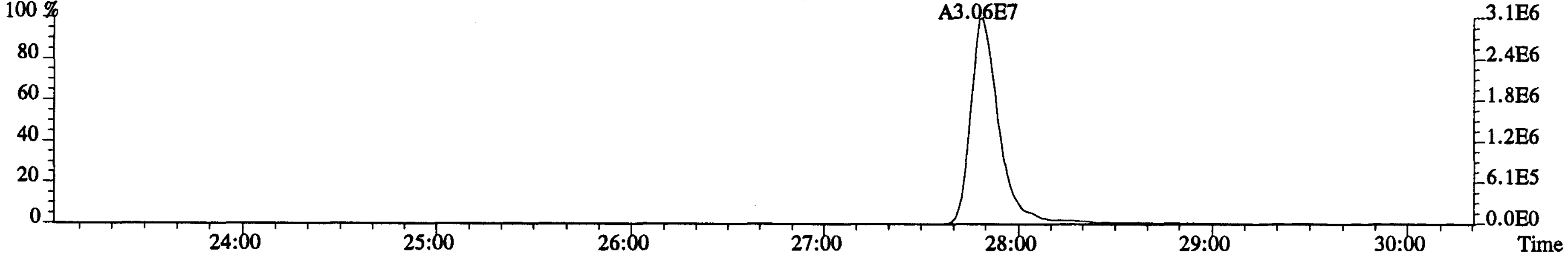
355.8546 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1940.0,1.00%,F,T)



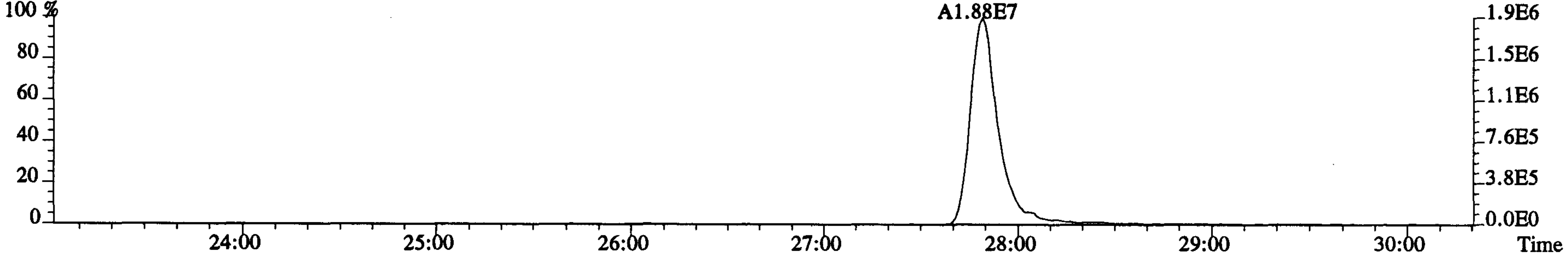
357.8516 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,648.0,1.00%,F,T)



367.8949 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2416.0,1.00%,F,T)

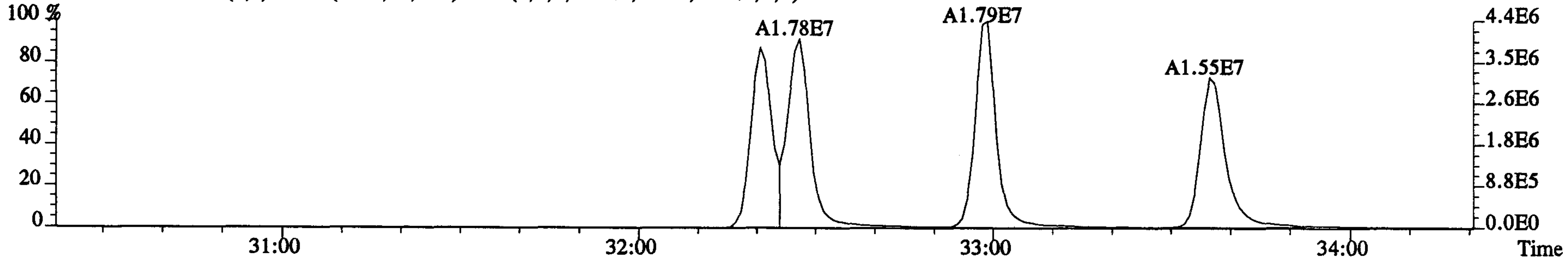


369.8919 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1864.0,1.00%,F,T)

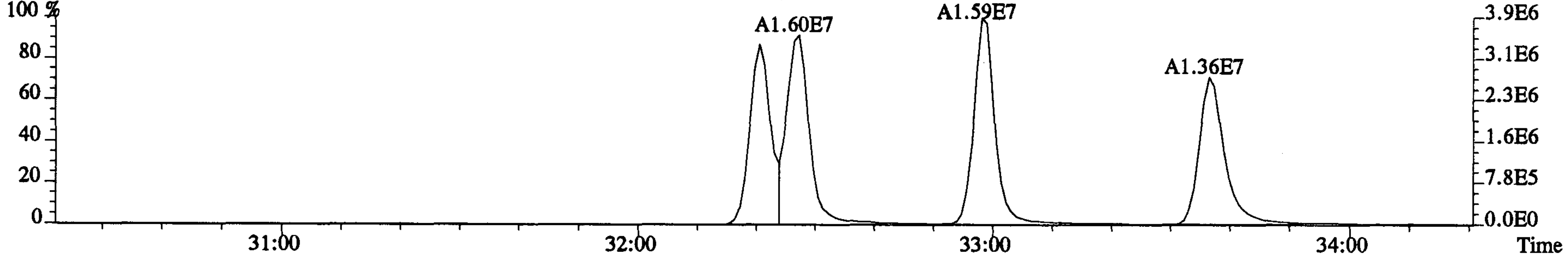


File:18OC104D5 #1-287 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES

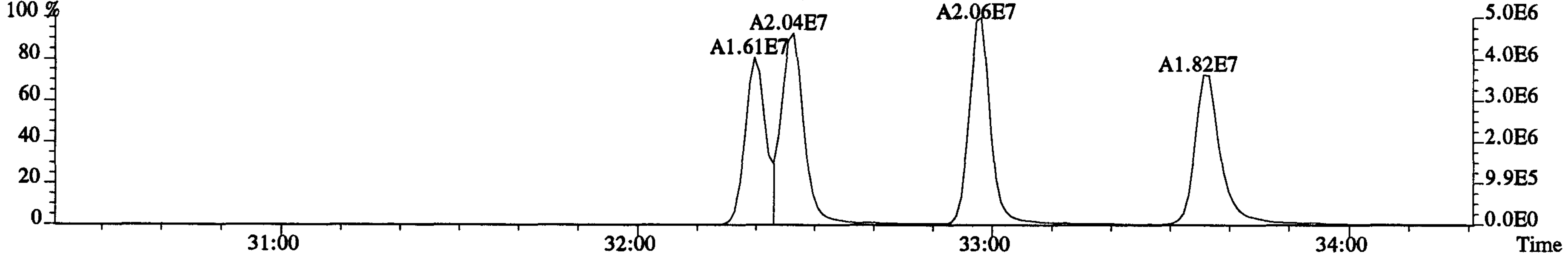
373.8208 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,640.0,1.00%,F,T)



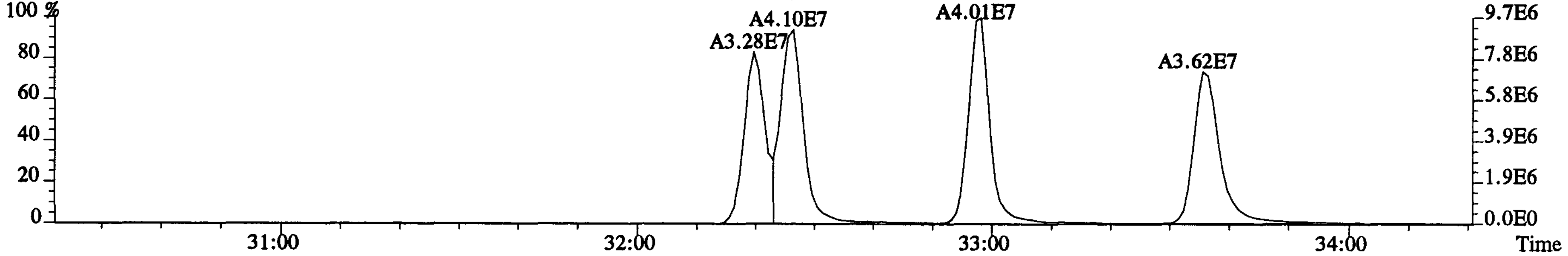
375.8178 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,40.0,1.00%,F,T)



383.8639 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1240.0,1.00%,F,T)

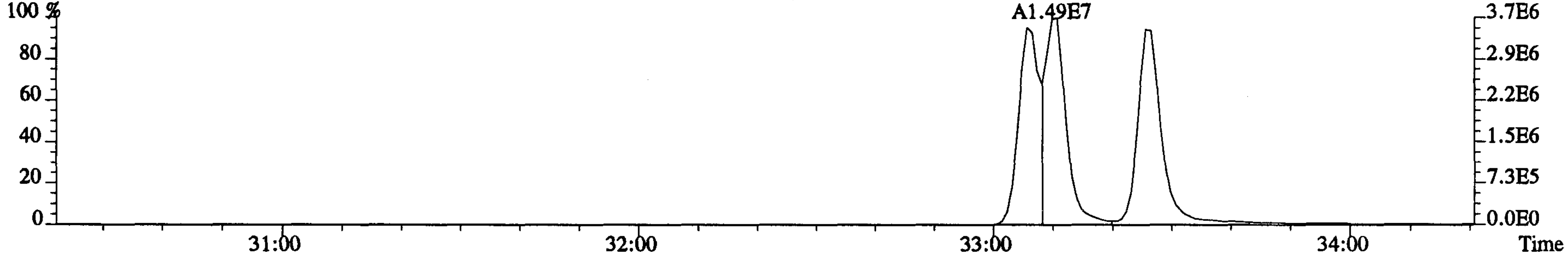


385.8610 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,120.0,1.00%,F,T)

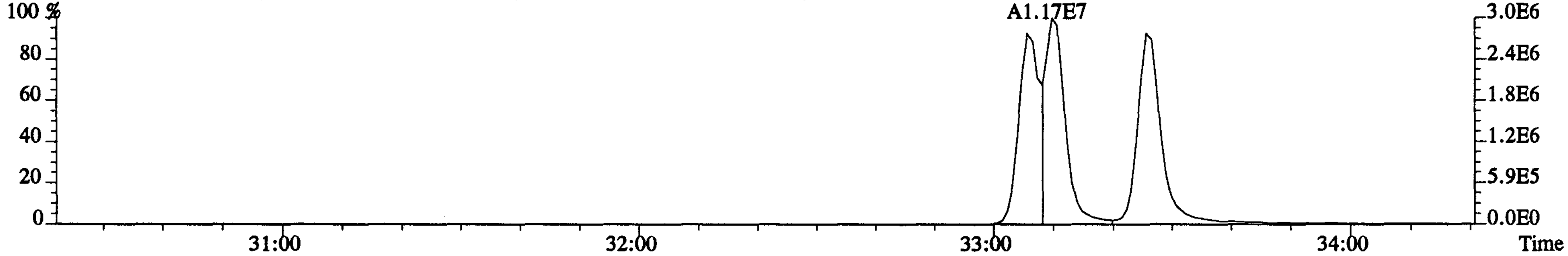


File:18OC104D5 #1-287 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES

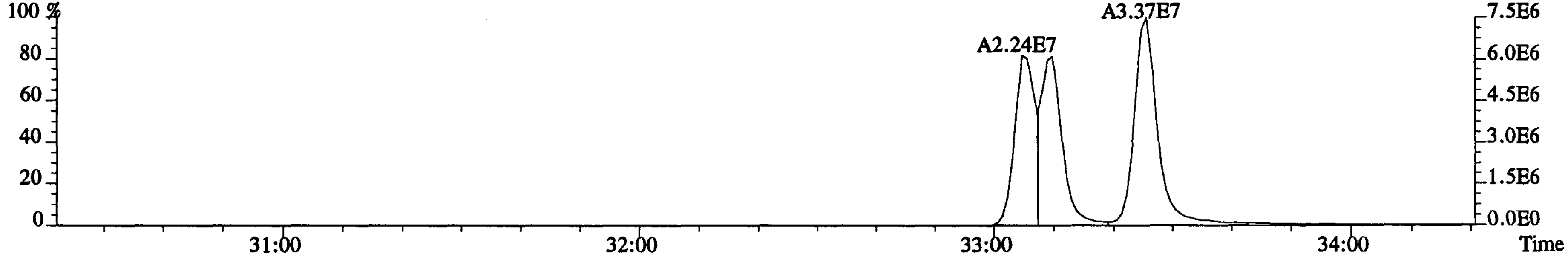
389.8157 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,836.0,1.00%,F,T)



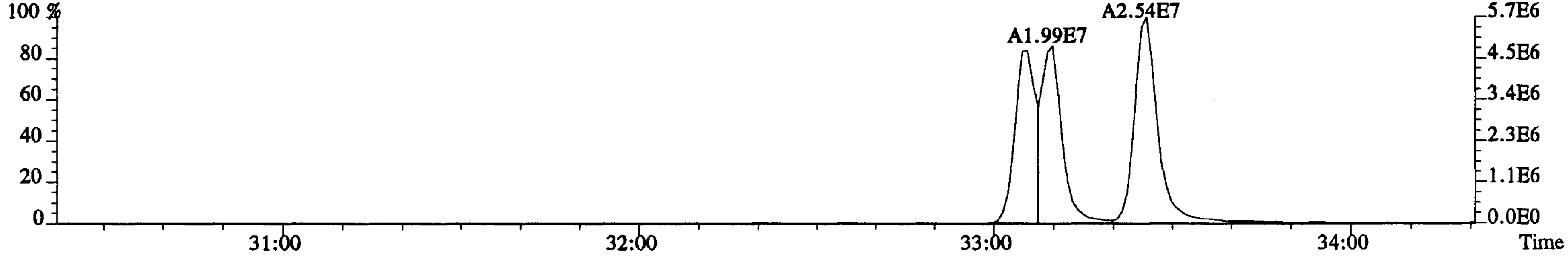
391.8127 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1160.0,1.00%,F,T)



401.8559 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,164.0,1.00%,F,T)

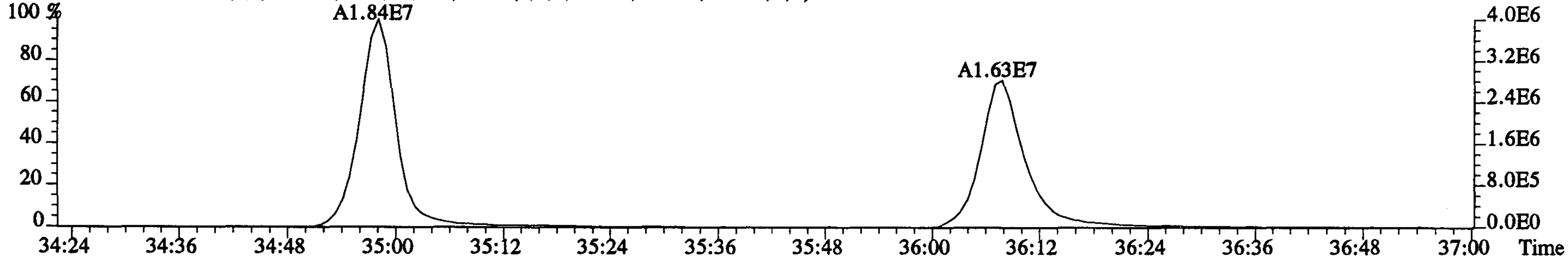


403.8529 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,124.0,1.00%,F,T)

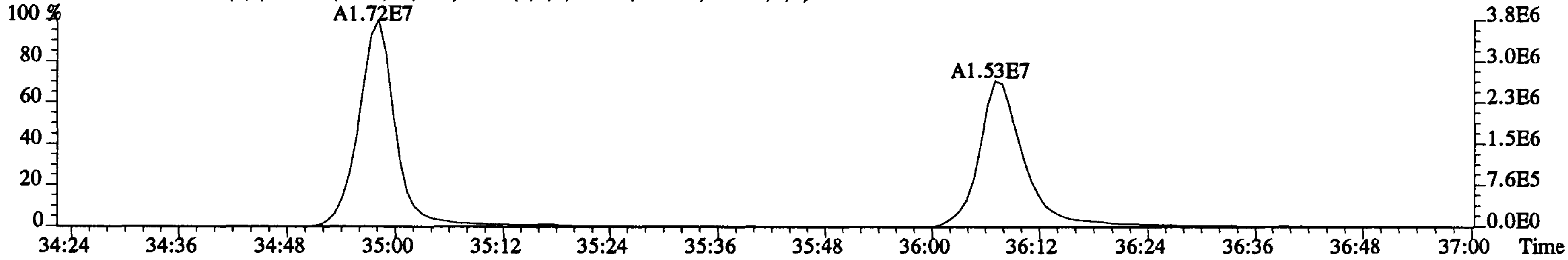


File:18OC104D5 #1-200 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES

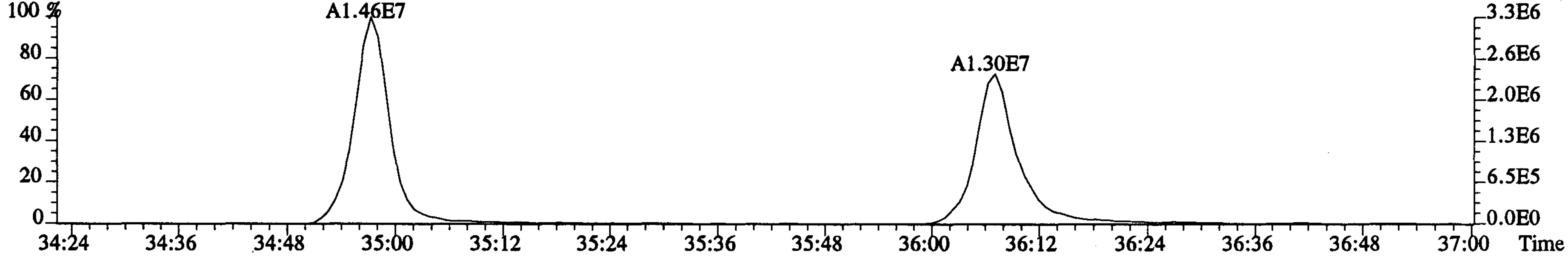
407.7818 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3696.0,1.00%,F,T)



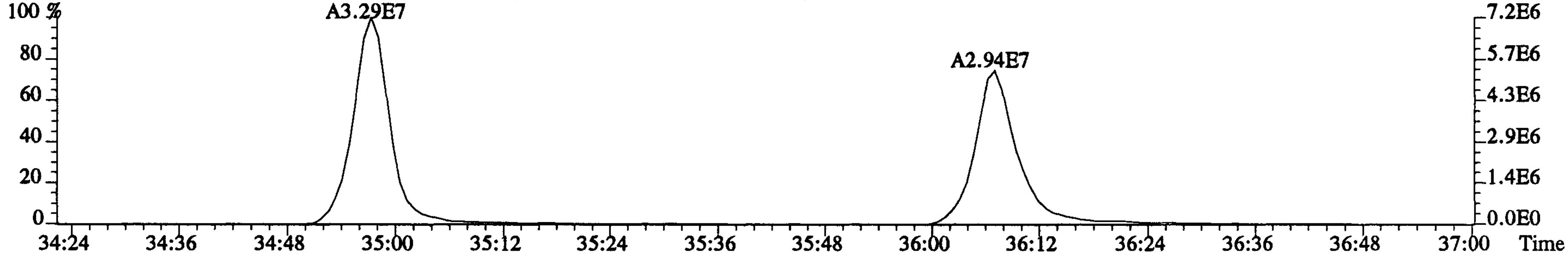
409.7789 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6804.0,1.00%,F,T)



417.8253 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7040.0,1.00%,F,T)

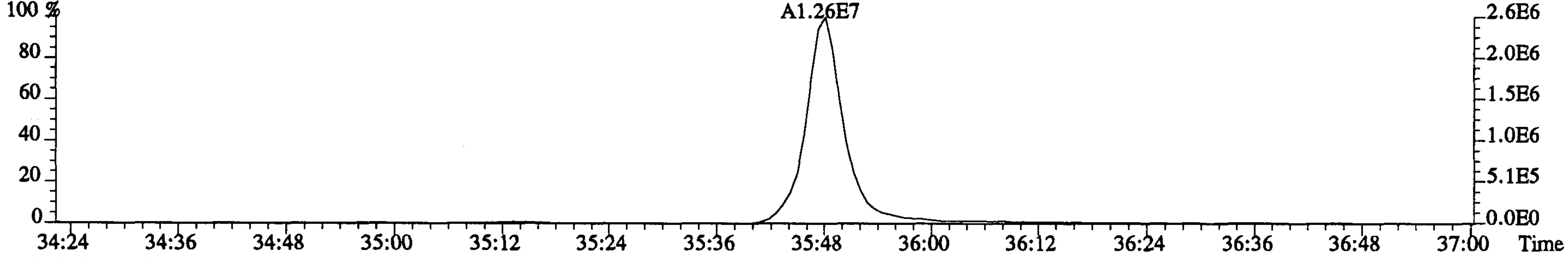


419.8220 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7520.0,1.00%,F,T)

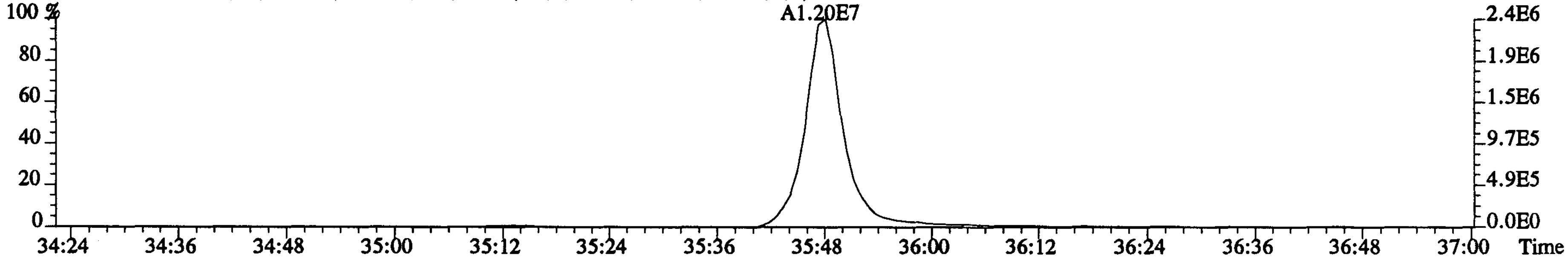


File:18OC104D5 #1-200 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES

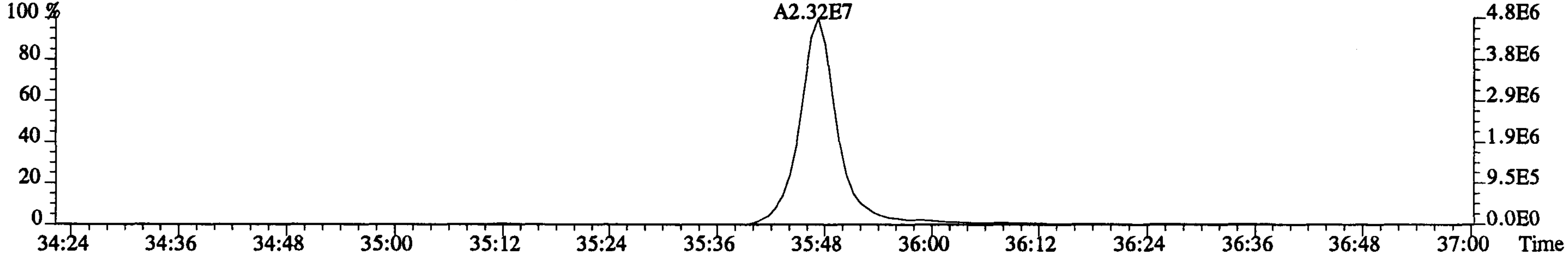
423.7766 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3820.0,1.00%,F,T)



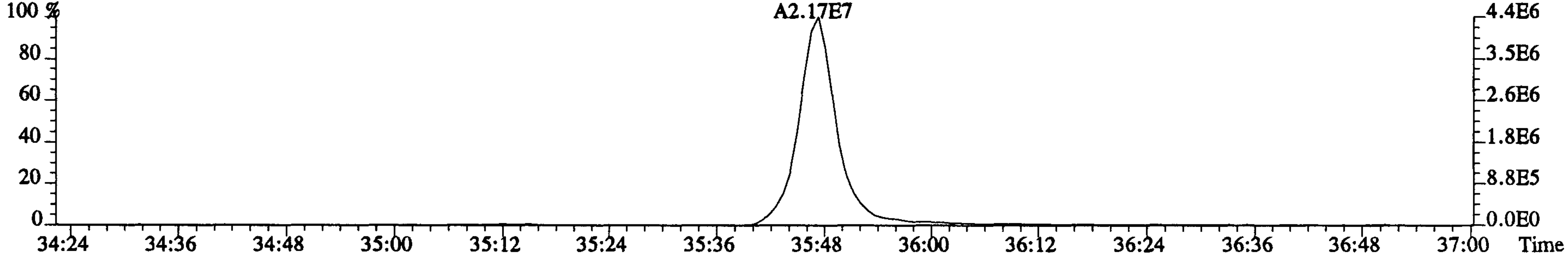
425.7737 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3072.0,1.00%,F,T)



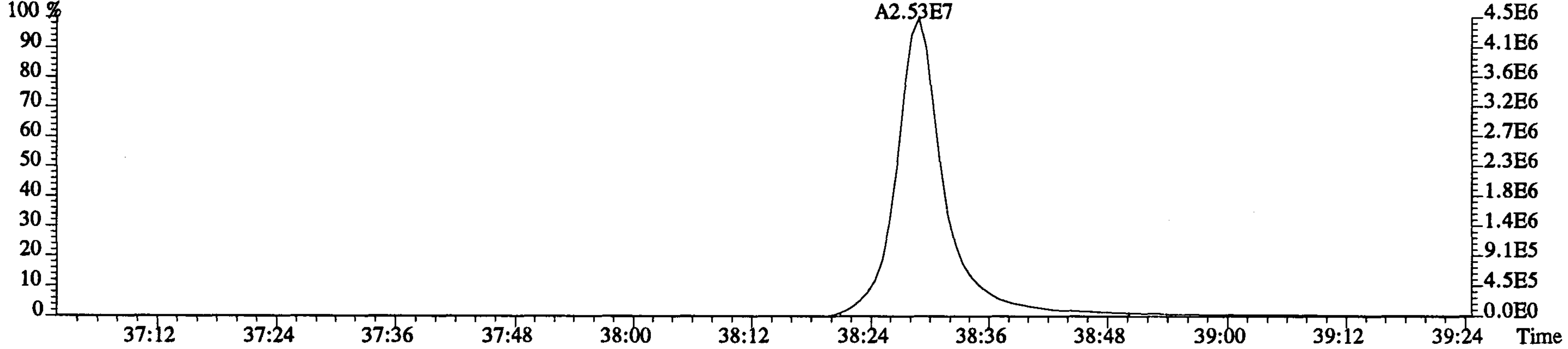
435.8169 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3004.0,1.00%,F,T)



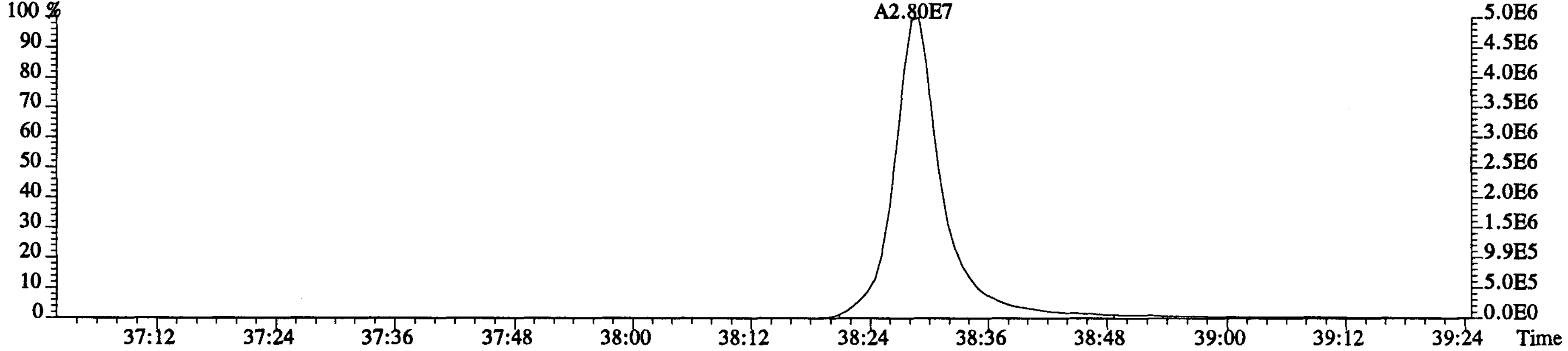
437.8140 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,864.0,1.00%,F,T)



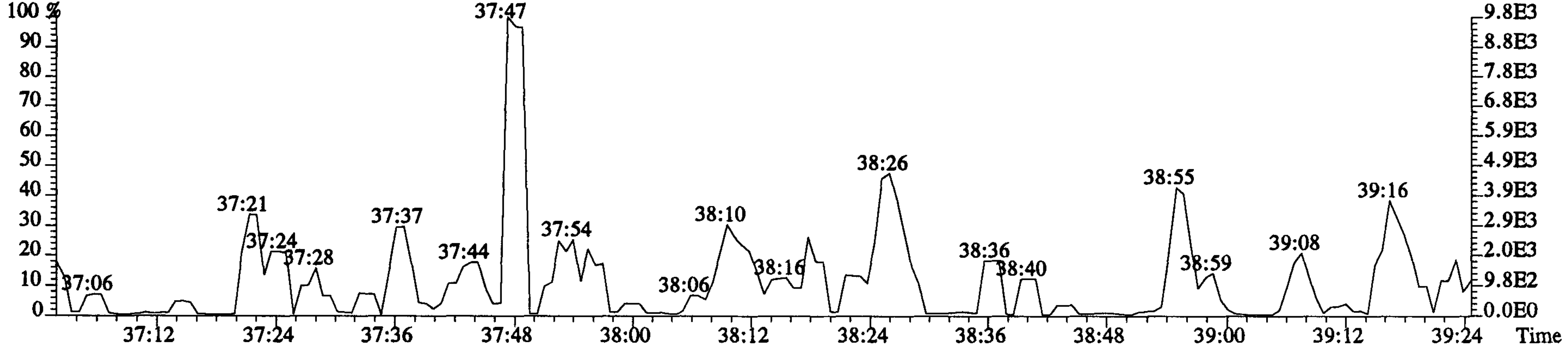
File:18OC104D5 #1-193 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES
441.7428 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,776.0,1.00%,F,T)



443.7399 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1196.0,1.00%,F,T)

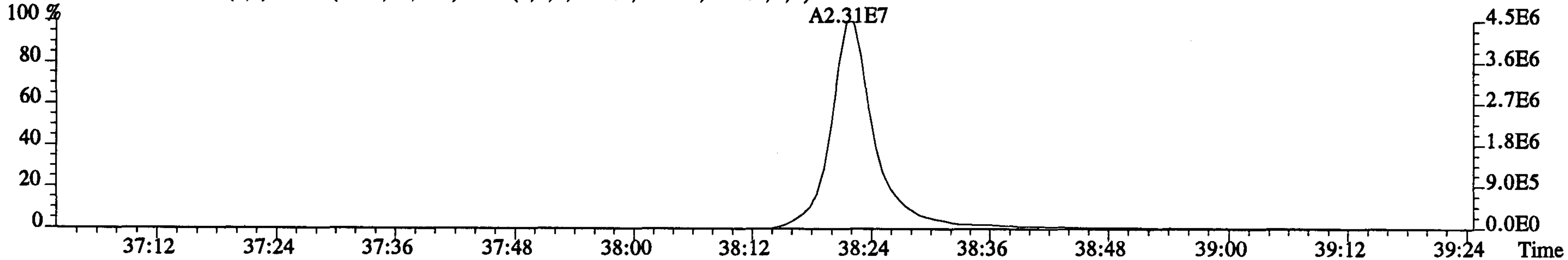


513.6775 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,84.0,1.00%,F,T)

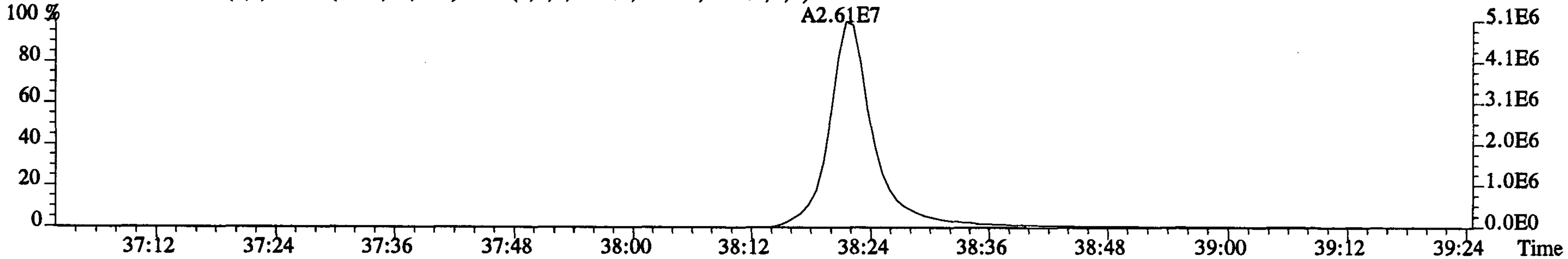


File:18OC104D5 #1-193 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES

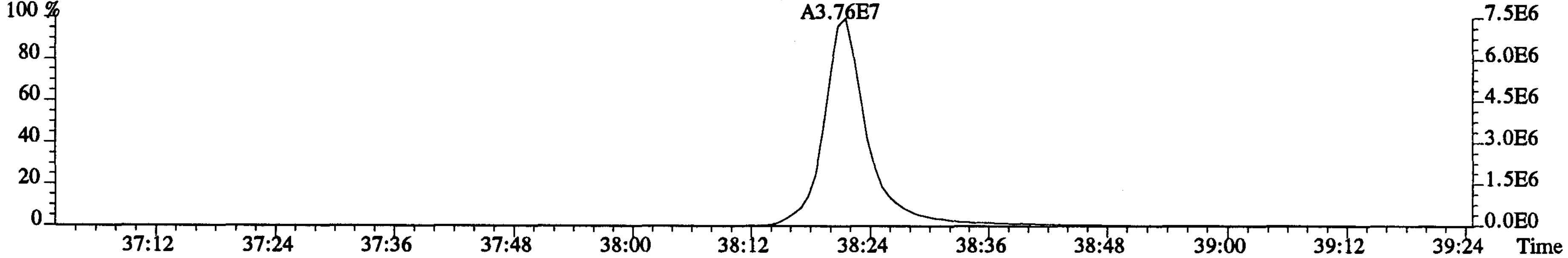
457.7377 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1124.0,1.00%,F,T)



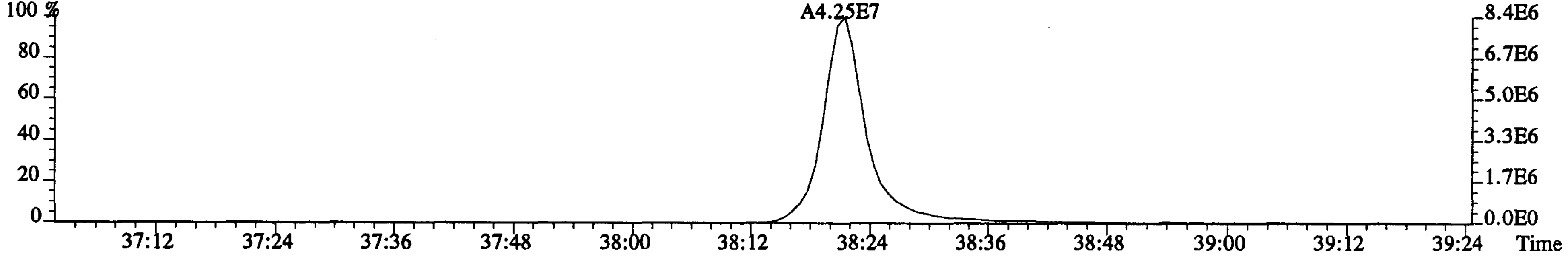
459.7348 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5752.0,1.00%,F,T)



469.7779 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,60.0,1.00%,F,T)

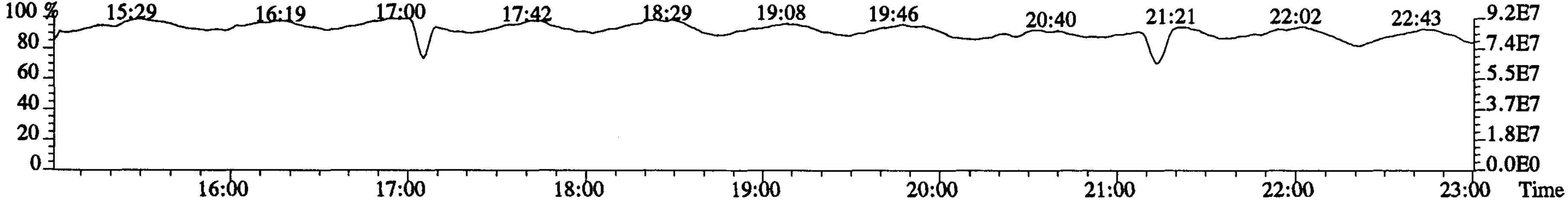


471.7750 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,40.0,1.00%,F,T)

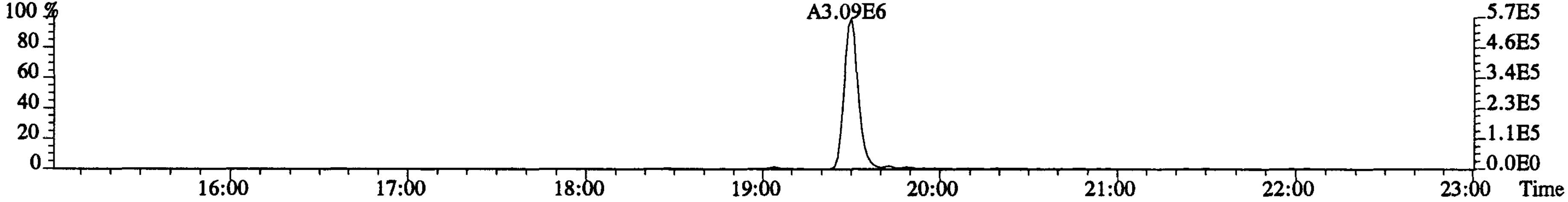


File:18OC104D5 #1-530 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES

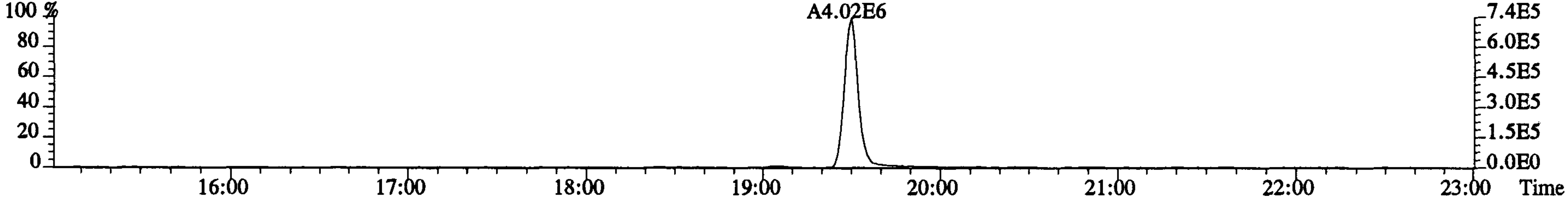
292.9825 S:13 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



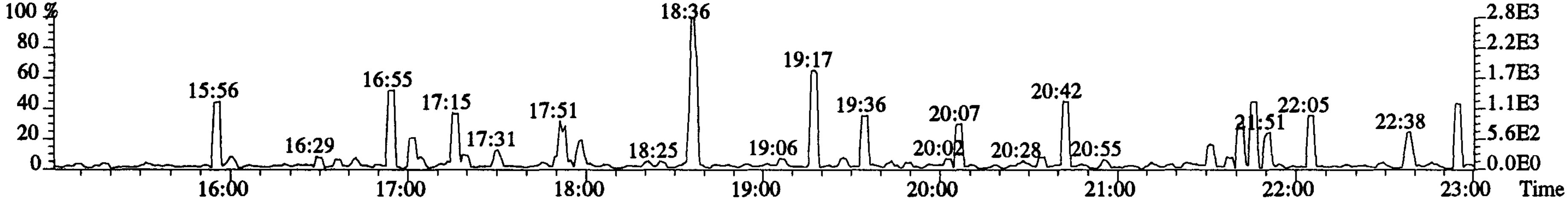
303.9016 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,460.0,1.00%,F,T)



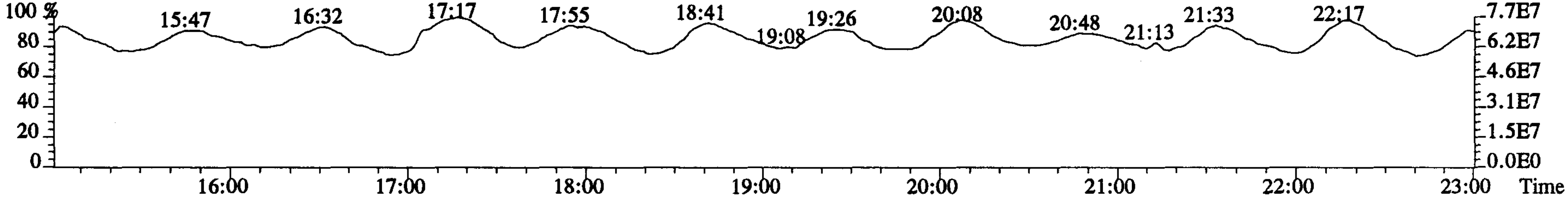
305.8987 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1192.0,1.00%,F,T)



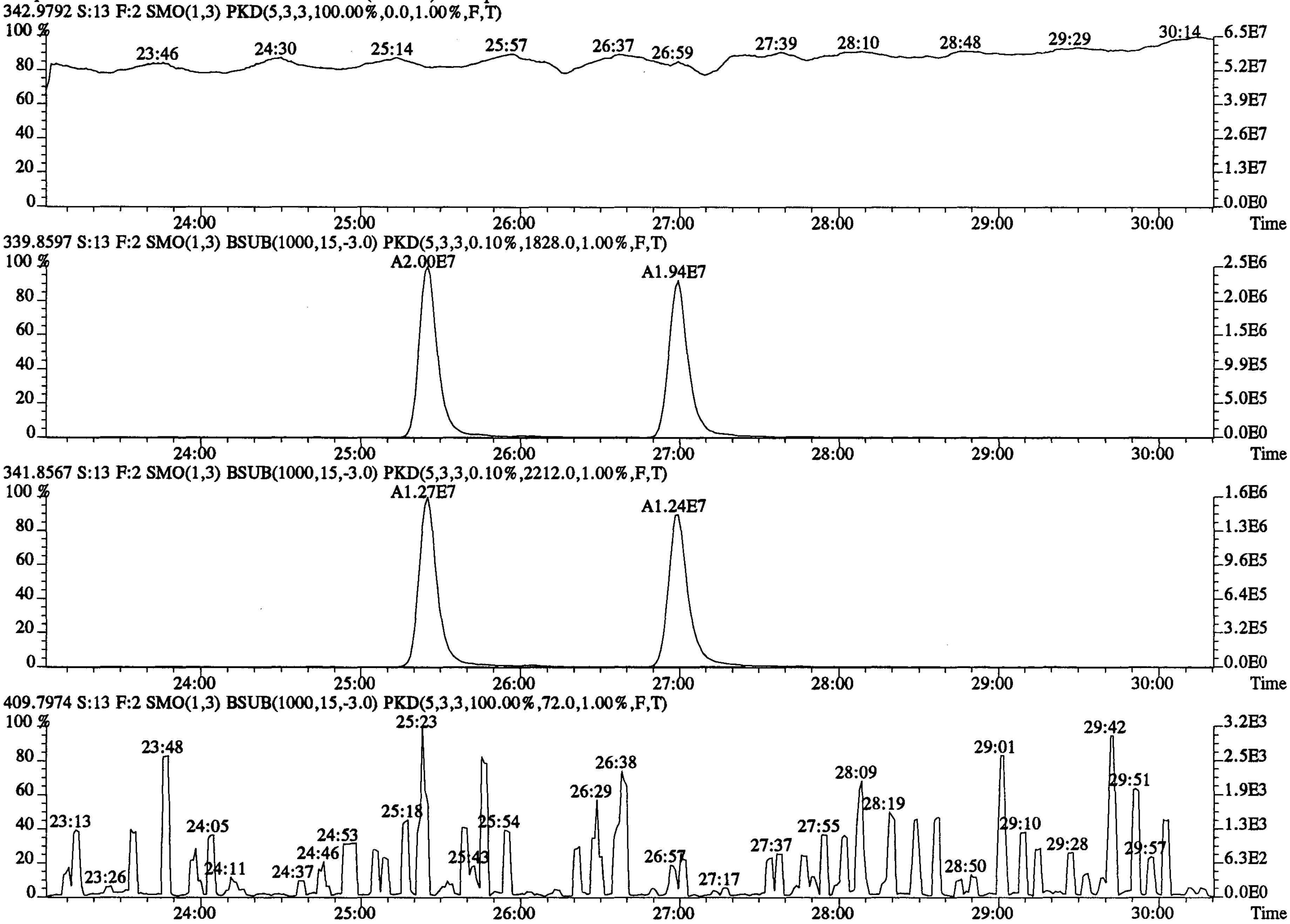
375.8364 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,76.0,1.00%,F,T)



330.9792 S:13 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

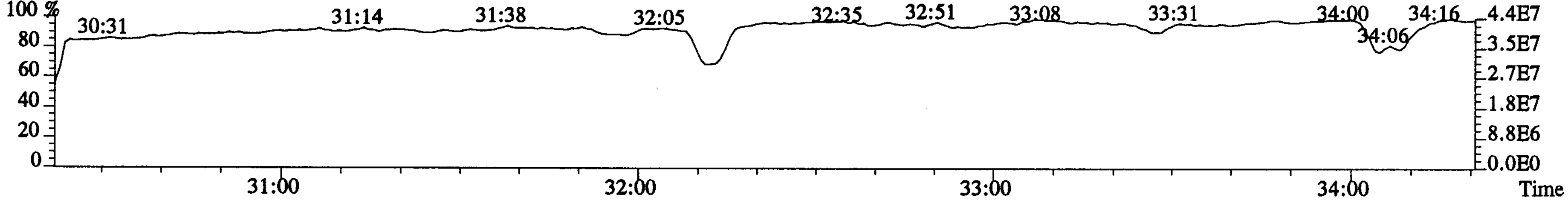


File:18OC104D5 #1-470 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES

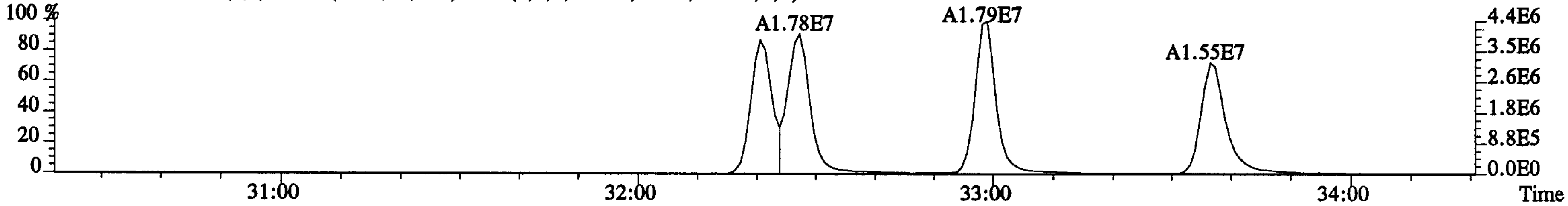


File:18OC104D5 #1-287 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES

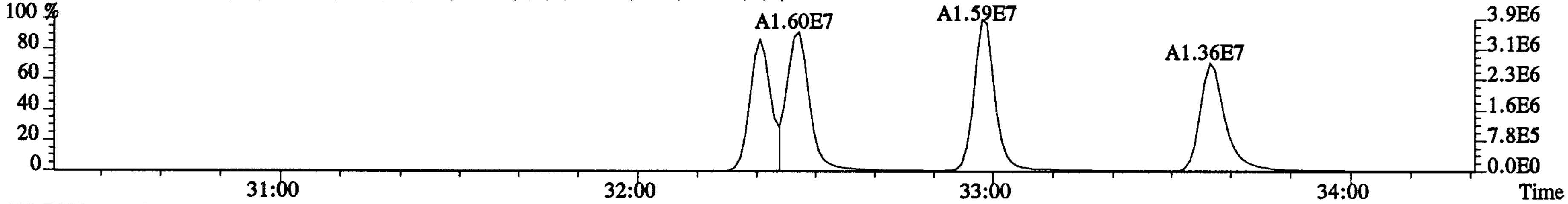
392.9760 S:13 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



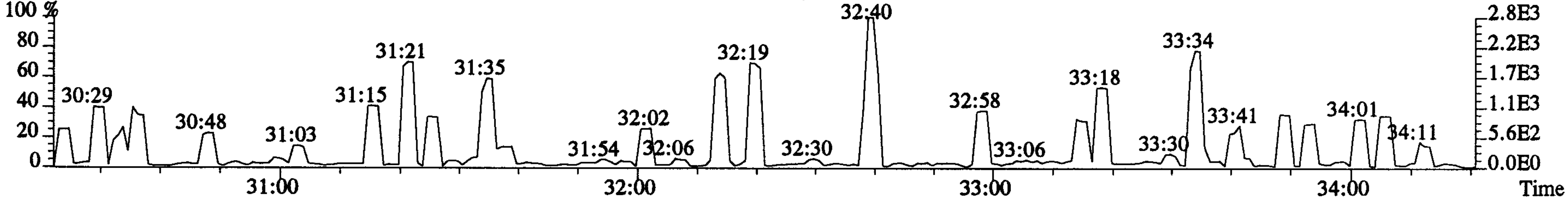
373.8208 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,640.0,1.00%,F,T)



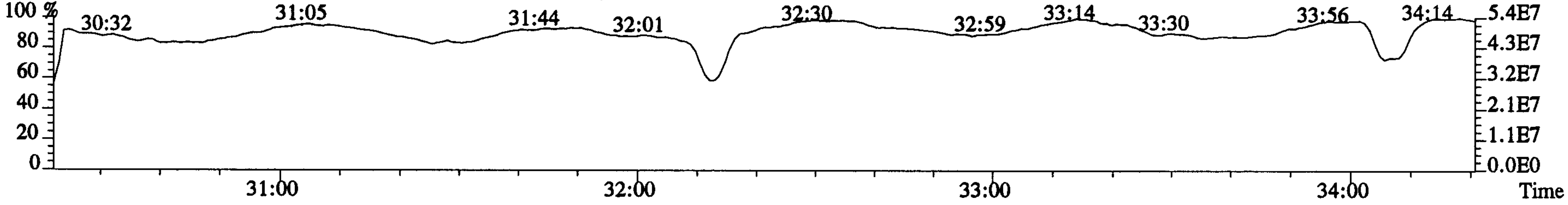
375.8178 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,40.0,1.00%,F,T)



445.7555 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,84.0,1.00%,F,T)

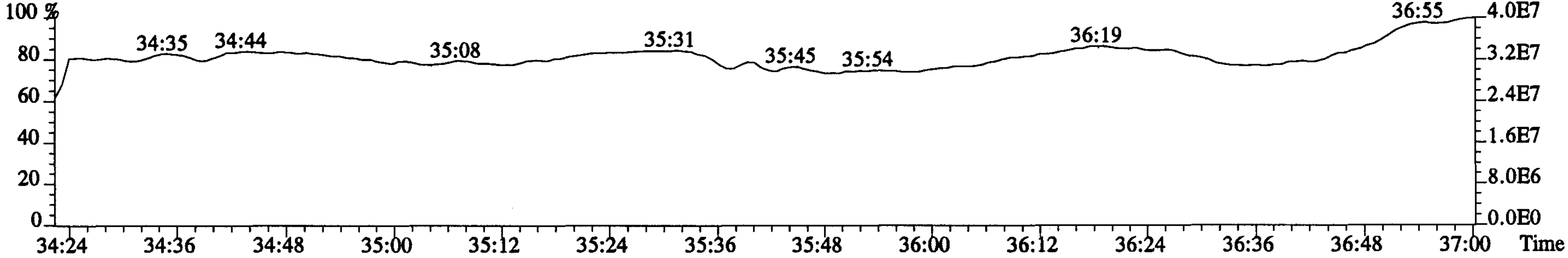


380.9760 S:13 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

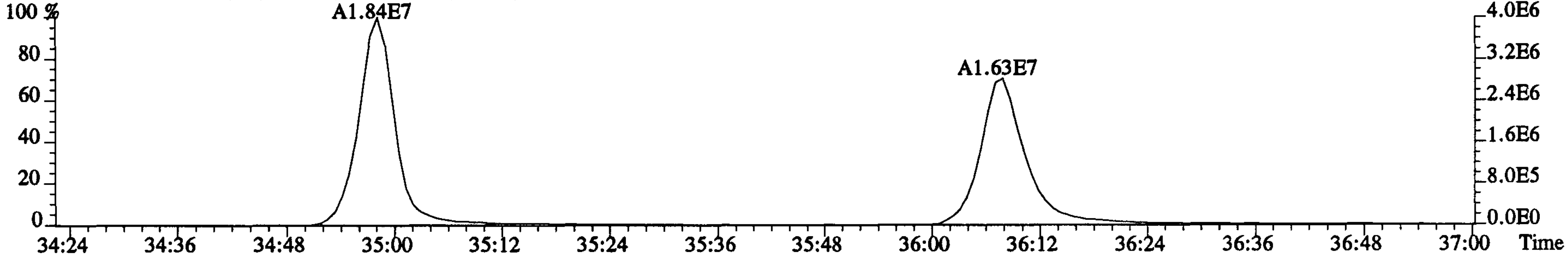


File:18OC104D5 #1-200 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES

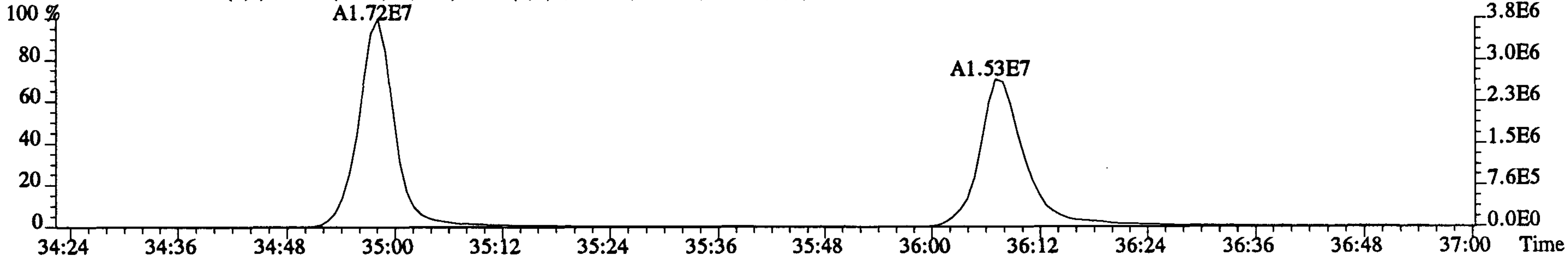
430.9728 S:13 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



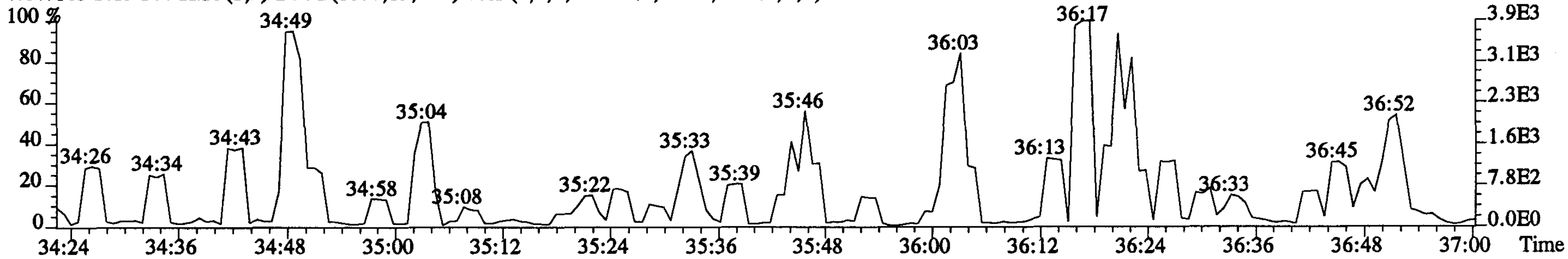
407.7818 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3696.0,1.00%,F,T)



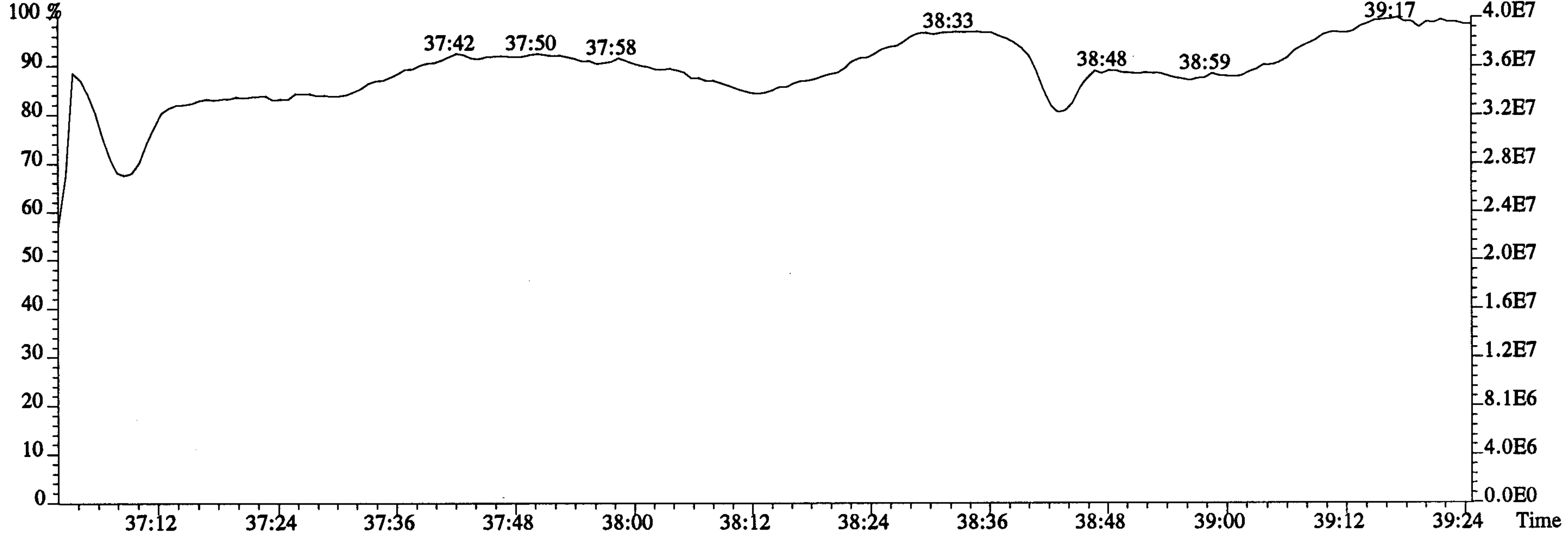
409.7789 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6804.0,1.00%,F,T)



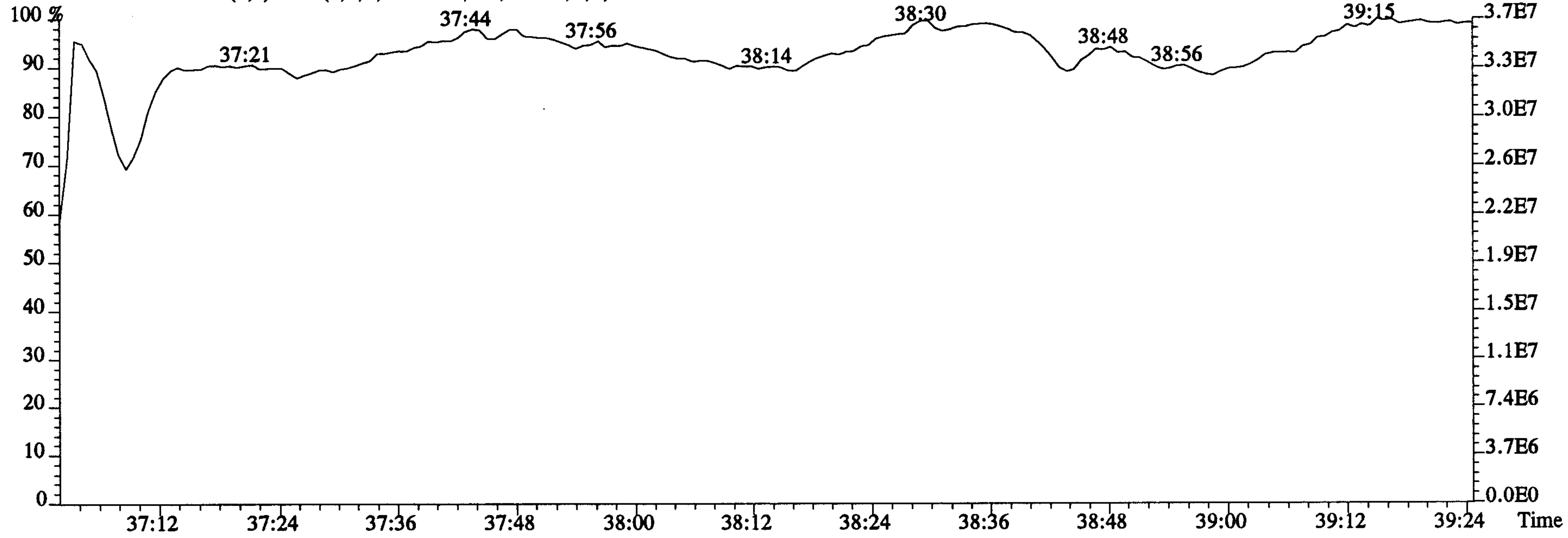
479.7165 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,108.0,1.00%,F,T)



File:18OC104D5 #1-193 Acq:18-OCT-2010 18:02:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#13 Text:L8A5X-1-AC :G0J120000-255 (429LCS)RI Exp:DIOXINRES
454.9728 S:13 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:13 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



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   Quantitation Summary     TestAmerica West Sacramento                         Page 5 o
                                                D
Run text: L8A5X-1-AC      Sample text: L8A5X-1-AC :G0J120000-255 (429DCS)
Run #10 Filename: 18OC104D5    S: 14    I: 1      Results: 18OC104D5TO9
Acquired: 18-OCT-10   18:46:46           Processed: 19-OCT-10  10:01:06
Run: 18OC104D5       Analyte: TO9        Cal: TO90721104D5
 Factor 1:1600.000     Factor 2:20.000      Sample size: 0.50   SAM


                  Name       Resp   RA       RT  RRF          Conc          EDL       Rec   M

      13C-1,2,3,4-TCDD   69302800 0.80 y  20:05    -        41.500            -         -   n

      13C-2,3,7,8-TCDF   64447088 0.80 y  19:29 1.23      3025.795        4.469      75.6   n
          2,3,7,8-TCDF    6704748 0.76 y  19:30 0.99       418.436        1.393         -   n
            Total TCDF    7046667 0.13 n  15:19 0.99       439.774        1.393         -   n

      13C-2,3,7,8-TCDD   54196346 0.78 y  20:18 0.91      3456.241        8.045      86.4   n
          2,3,7,8-TCDD    5063756 0.78 y  20:19 0.98       380.017        0.488         -   n
            Total TCDD    5278174 0.69 y  15:46 0.98       396.108        0.488         -   n

     37Cl-2,3,7,8-TCDD      70255 1.00 y  20:21 1.33         3.910        0.140       0.2   n

   13C-1,2,3,7,8-PeCDF   52450744 1.57 y  25:24 0.88      3455.669       13.510      86.4   n
       1,2,3,7,8-PeCDF   27949681 1.54 y  25:25 1.08      1979.778        7.639         -   n
       2,3,4,7,8-PeCDF   26327994 1.56 y  26:60 1.05      1920.284        7.866         -   n
        Total F2 PeCDF   54945383 0.73 n  23:46 1.06      3948.050        7.751         -   n
        Total F1 PeCDF      57669 0.16 n  17:02 1.06         4.145        2.179         -   n

   13C-1,2,3,7,8-PeCDD   41205740 1.62 y  27:49 0.66      3598.990        3.475      90.0   n
       1,2,3,7,8-PeCDD   20554003 1.45 y  27:52 0.93      2155.960        6.447         -   n
           Total PeCDD   20808690 5.64 n  27:11 0.93      2182.675        6.447         -   n

 13C-1,2,3,7,8,9-HxCDD   52275826 1.27 y  33:25    -        44.152            -         -   n

 13C-1,2,3,4,7,8-HxCDF   40792553 0.51 y  32:20 1.04      2987.531        6.307      74.7   n
     1,2,3,4,7,8-HxCDF   25594762 1.14 y  32:21 1.22      2061.840        1.158         -   n
     1,2,3,6,7,8-HxCDF   30365390 1.15 y  32:27 1.28      2323.244        1.100         -   n
     2,3,4,6,7,8-HxCDF   28061572 1.15 y  32:58 1.23      2230.906        1.143         -   n
     1,2,3,7,8,9-HxCDF   24668407 1.12 y  33:36 1.10      2202.685        1.284         -   n
           Total HxCDF  108690131 1.14 y  32:21 1.21      8818.675        1.167         -   n

 13C-1,2,3,6,7,8-HxCDD   37989606 1.31 y  33:10 0.83      3498.905        0.372      87.5   n
     1,2,3,4,7,8-HxCDD   20635522 1.26 y  33:06 1.04      2094.854        1.358         -   n
     1,2,3,6,7,8-HxCDD   23507472 1.28 y  33:10 1.16      2128.624        1.211         -   n
     1,2,3,7,8,9-HxCDD   25014354 1.25 y  33:26 1.18      2228.796        1.192         -   n
           Total HxCDD   69157348 1.26 y  33:06 1.13      6452.274        1.249         -   n

13C-1,2,3,4,6,7,8-HpCDF  37626611 0.45 y  34:57 0.91      3163.750       15.645      79.1   n
   1,2,3,4,6,7,8-HpCDF   29749851 1.08 y  34:57 1.35      2350.051        7.101         -   n
   1,2,3,4,7,8,9-HpCDF   24849352 1.08 y  36:07 1.09      2415.935        8.740         -   n
           Total HpCDF   55067089 1.08 y  34:57 1.22      4806.769        7.836         -   n

13C-1,2,3,4,6,7,8-HpCDD  36001552 1.04 y  35:47 0.83      3332.589        8.787      83.3   n
   1,2,3,4,6,7,8-HpCDD   20153670 1.03 y  35:47 1.07      2089.398        7.411         -   n
           Total HpCDD   20360096 0.95 y  35:12 1.07      2110.799        7.411         -   n

              13C-OCDD   57303808 0.90 y  38:21 0.62      7073.301       10.199      88.4   n
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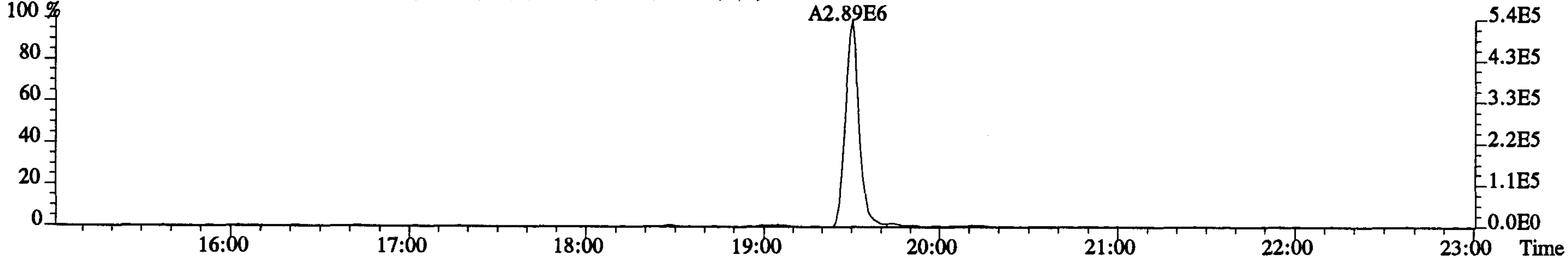
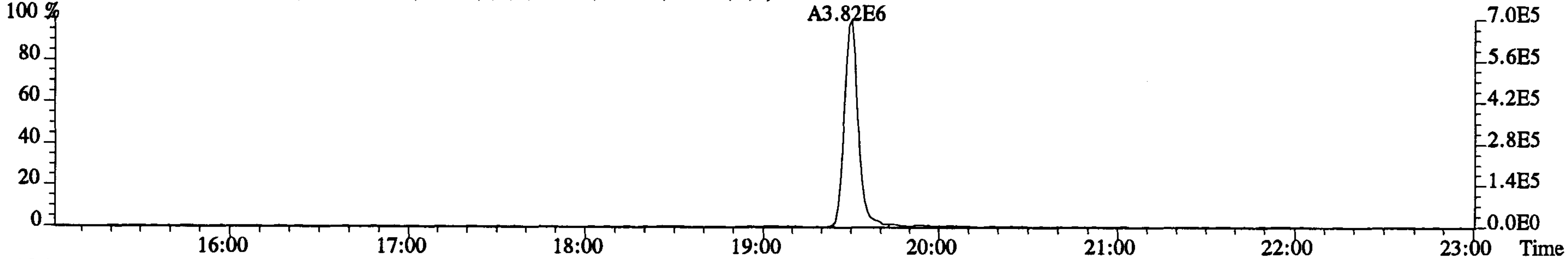
OCDF   41153754 0.91 y  38:29 1.37      4192.771        8.761      -   n
OCDD   36703926 0.89 y  38:22 1.20      4272.527        7.125      -   n
```

File:18OC104D5 #1-530 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES

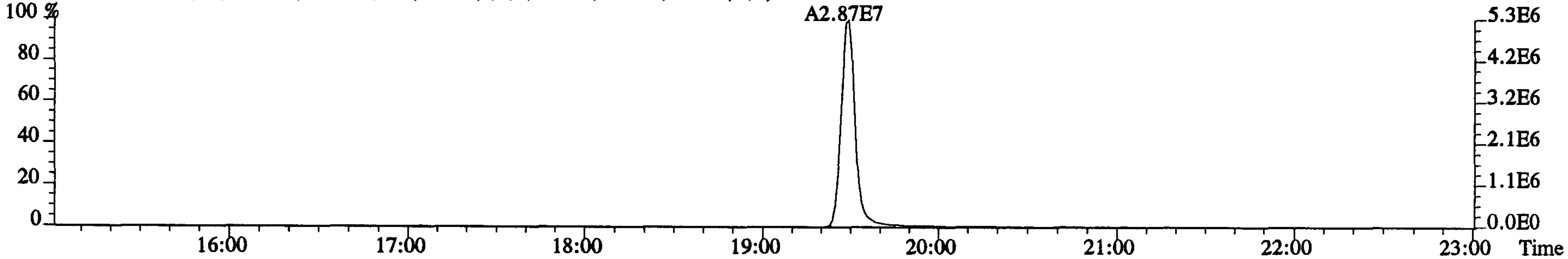
303.9016 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,268.0,1.00%,F,T)



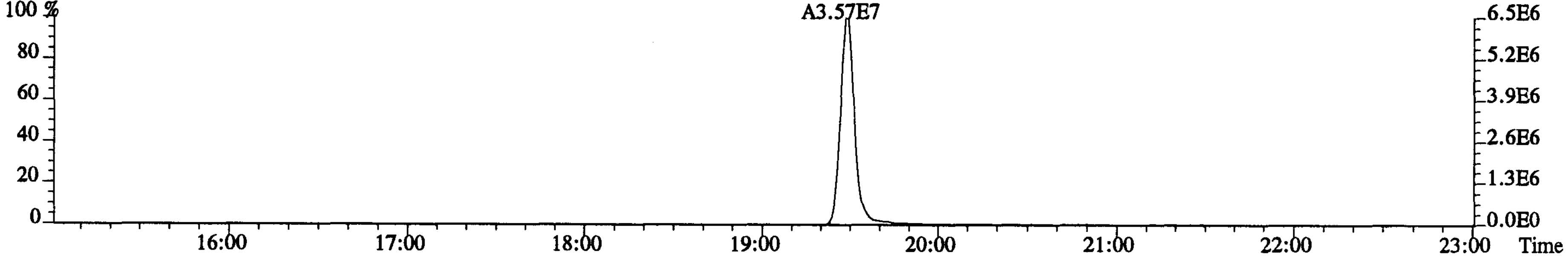
305.8987 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1096.0,1.00%,F,T)



315.9419 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2960.0,1.00%,F,T)

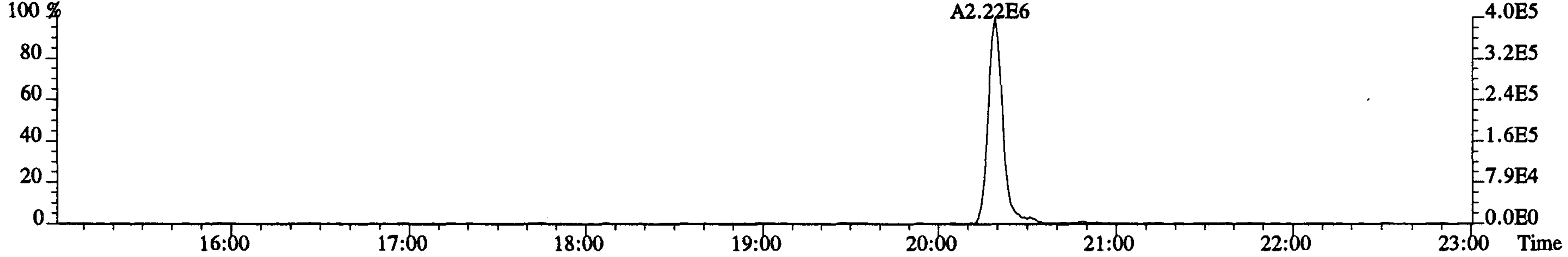


317.9389 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3260.0,1.00%,F,T)

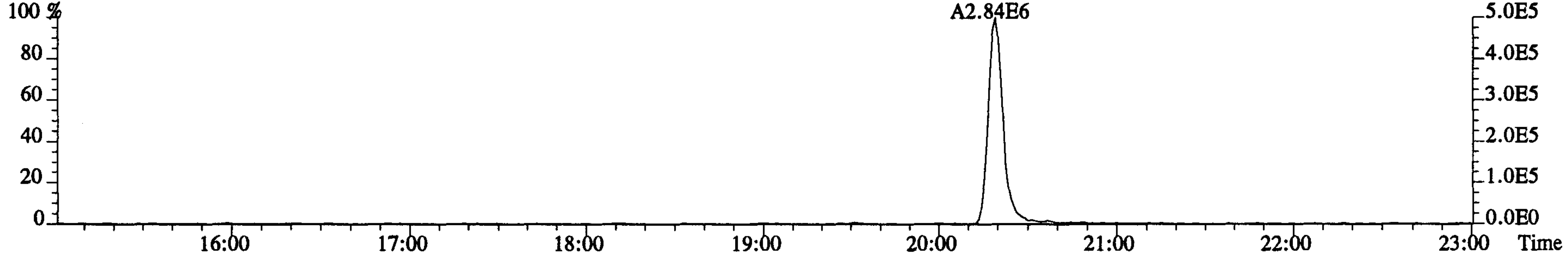


File:18OC104D5 #1-530 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES

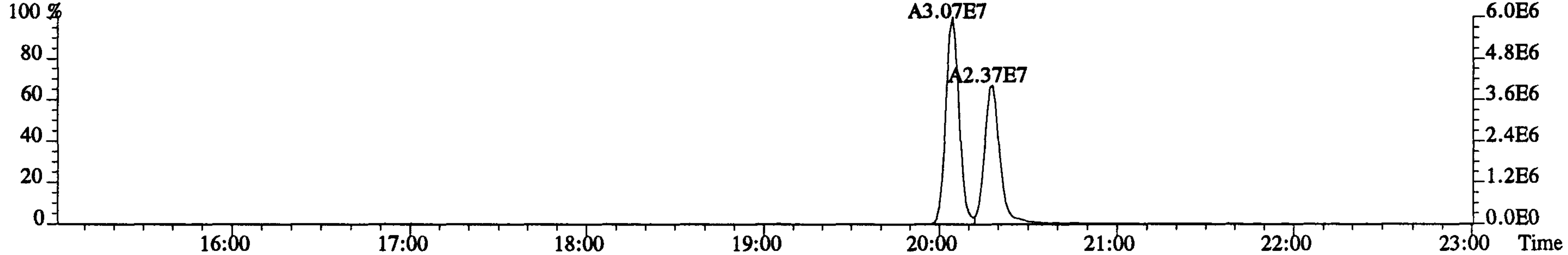
319.8965 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,316.0,1.00%,F,T)



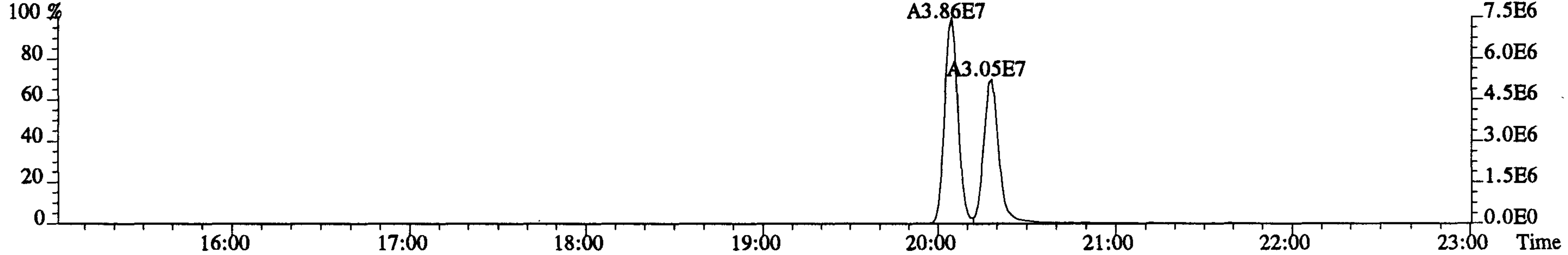
321.8936 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56.0,1.00%,F,T)



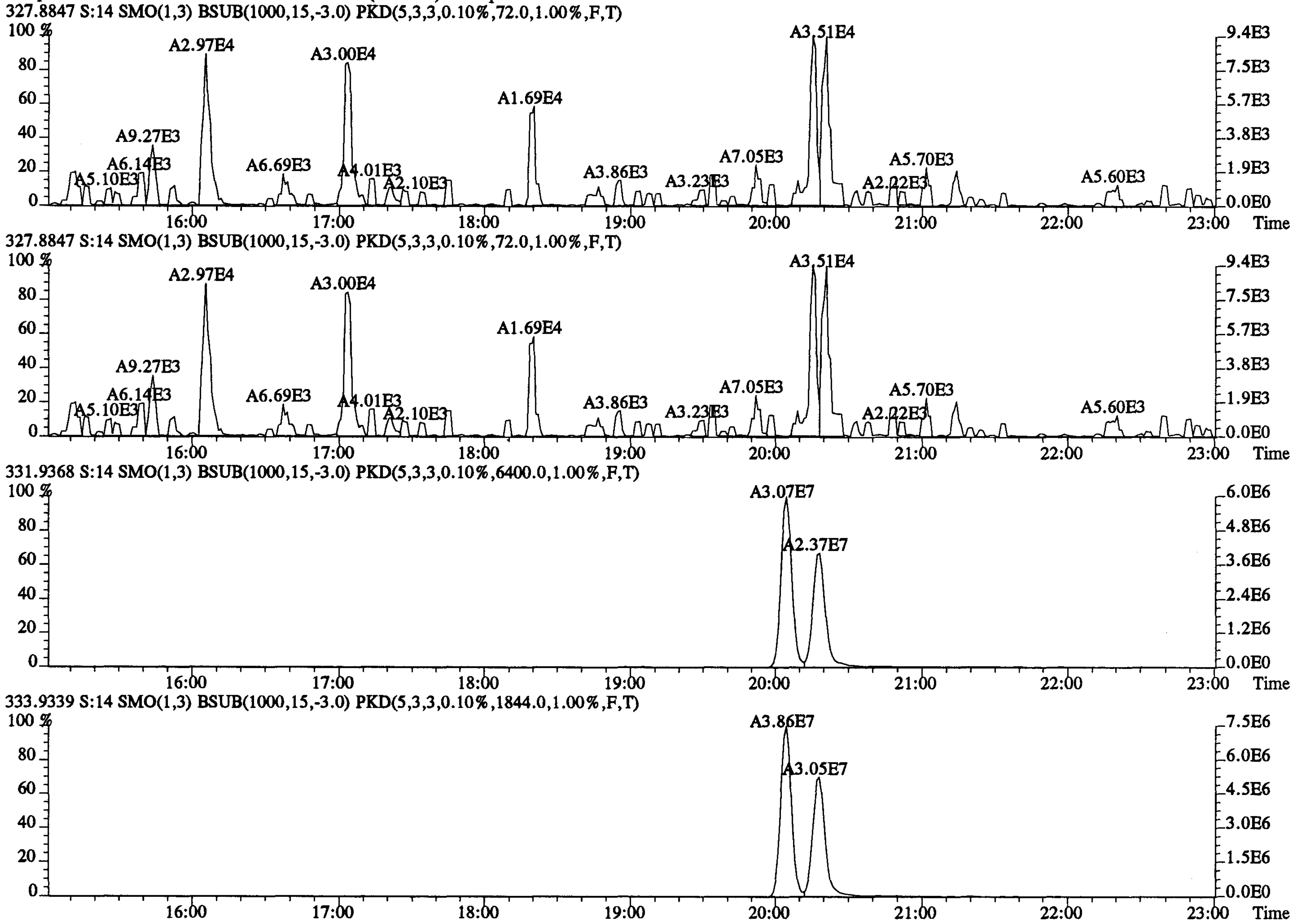
331.9368 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6400.0,1.00%,F,T)



333.9339 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1844.0,1.00%,F,T)

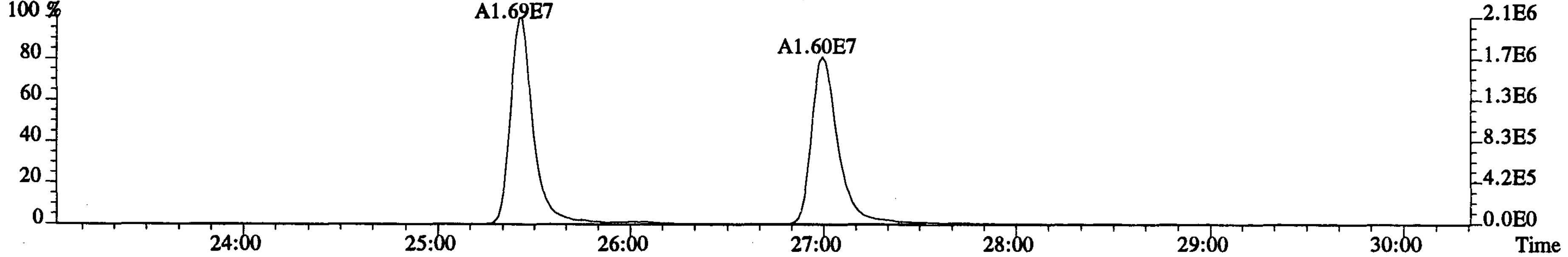


File:18OC104D5 #1-530 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES

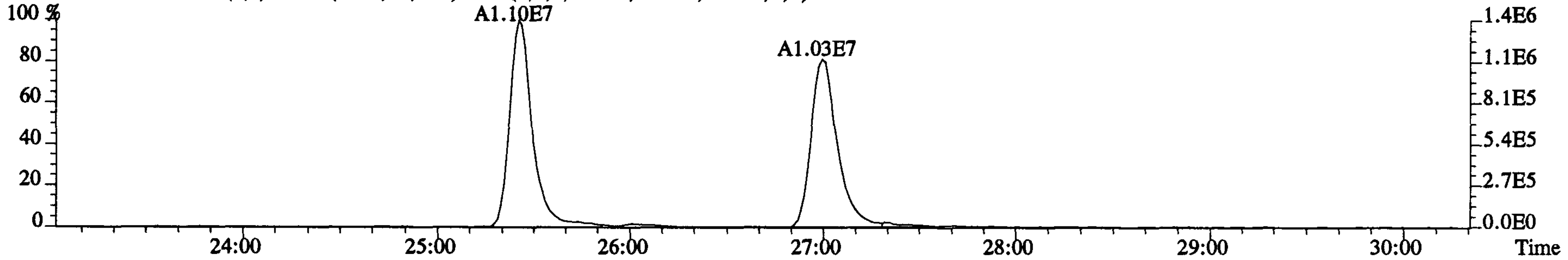


File:18OC104D5 #1-470 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES

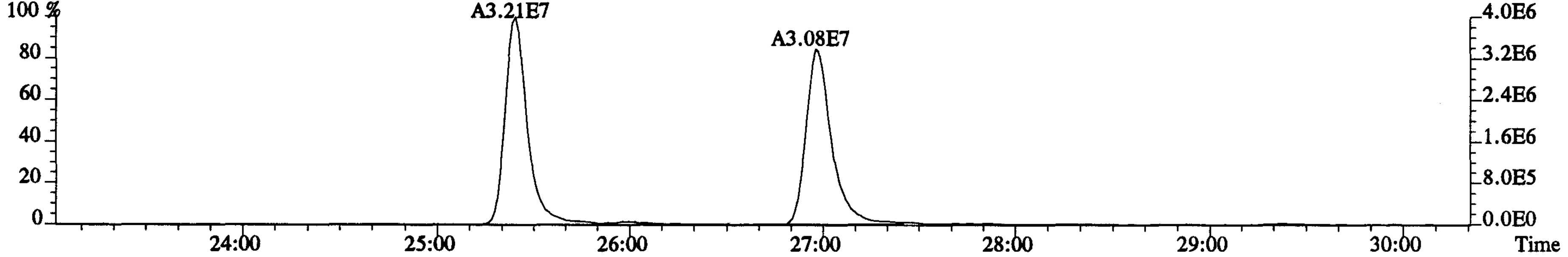
339.8597 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2468.0,1.00%,F,T)



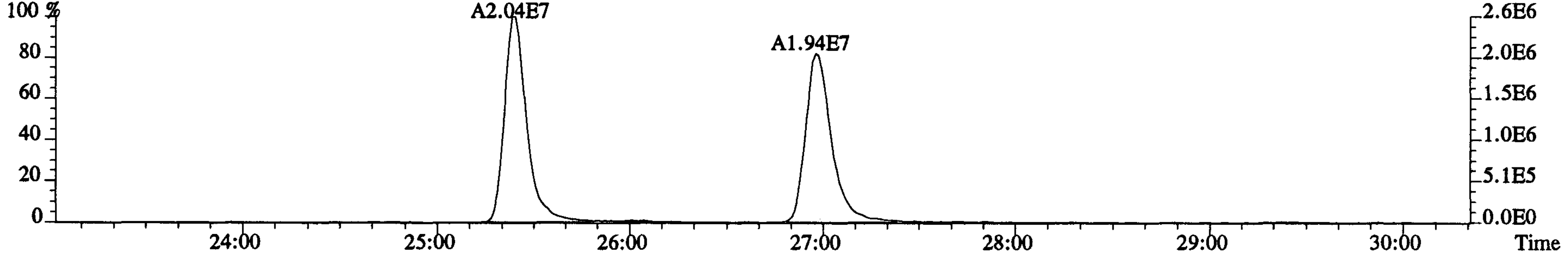
341.8567 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2028.0,1.00%,F,T)



351.9000 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7884.0,1.00%,F,T)

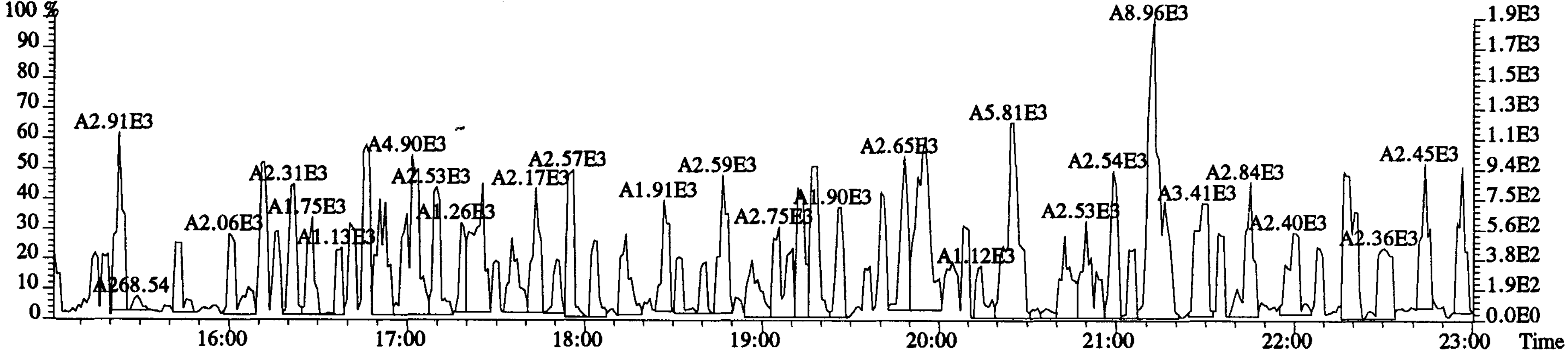


353.8970 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5516.0,1.00%,F,T)

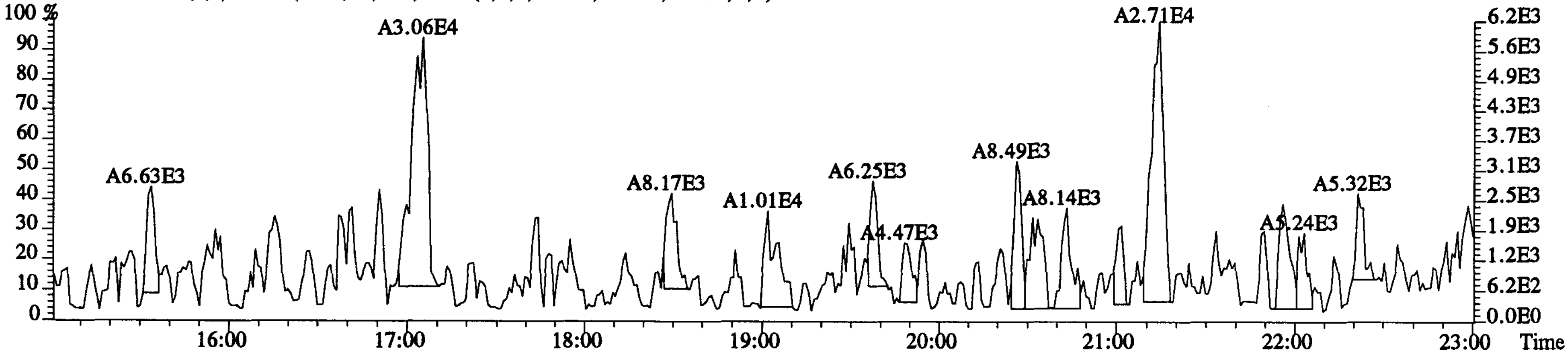


File:18OC104D5 #1-530 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES

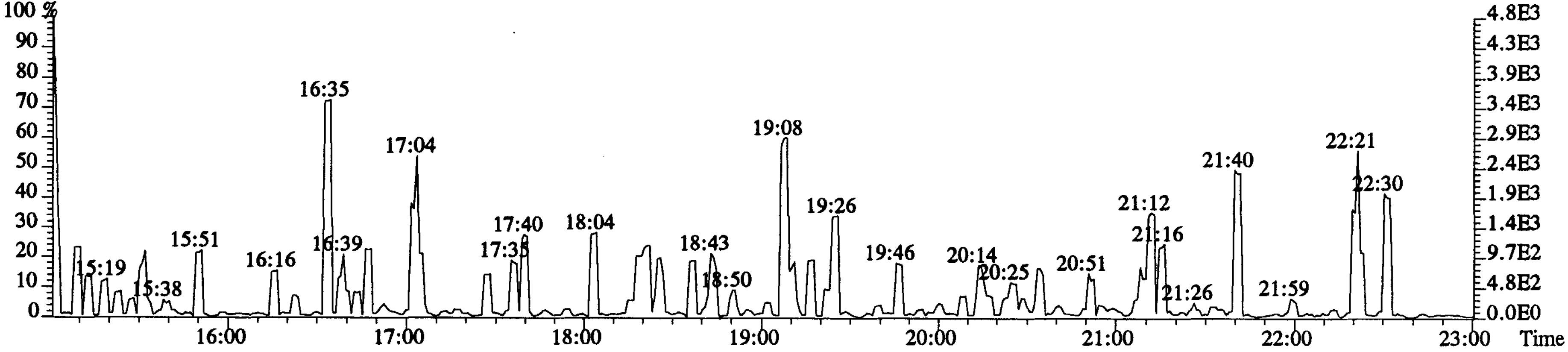
339.8597 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,80.0,1.00%,F,T)



341.8567 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1184.0,1.00%,F,T)

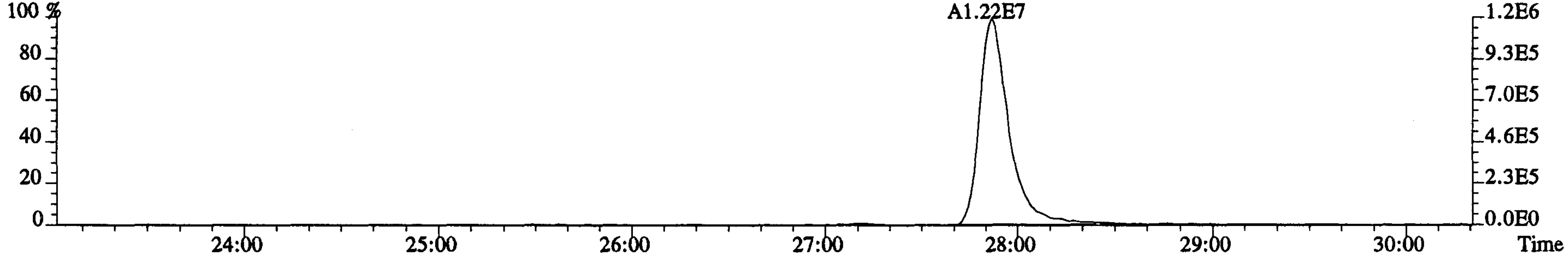


409.7974 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,68.0,1.00%,F,T)

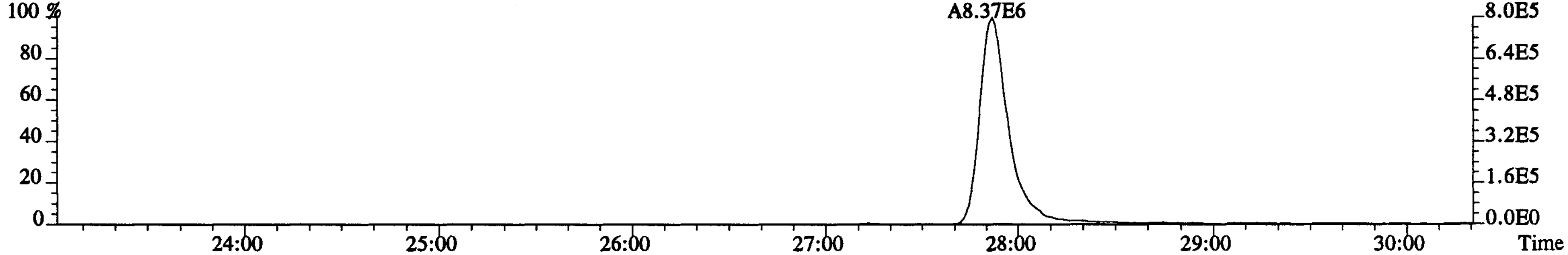


File:18OC104D5 #1-470 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES

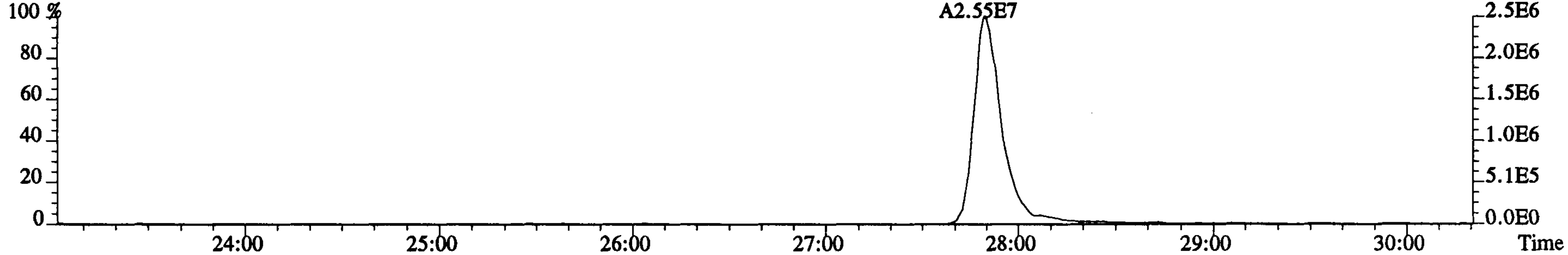
355.8546 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1540.0,1.00%,F,T)



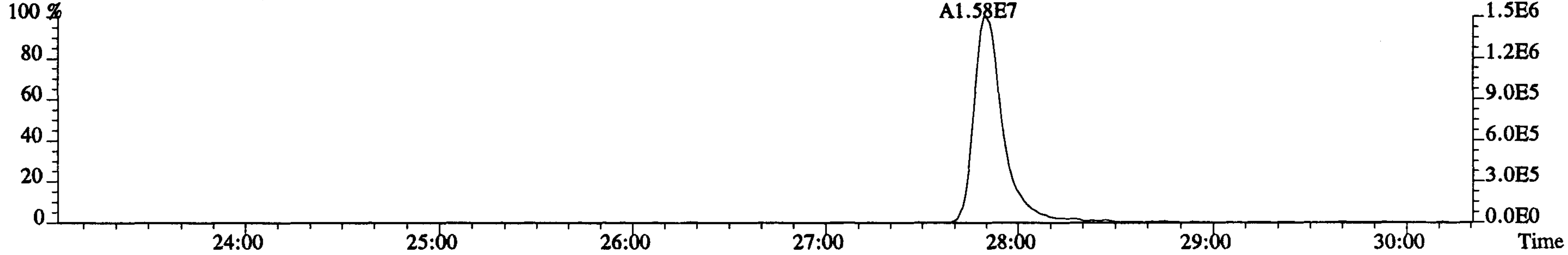
357.8516 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,448.0,1.00%,F,T)



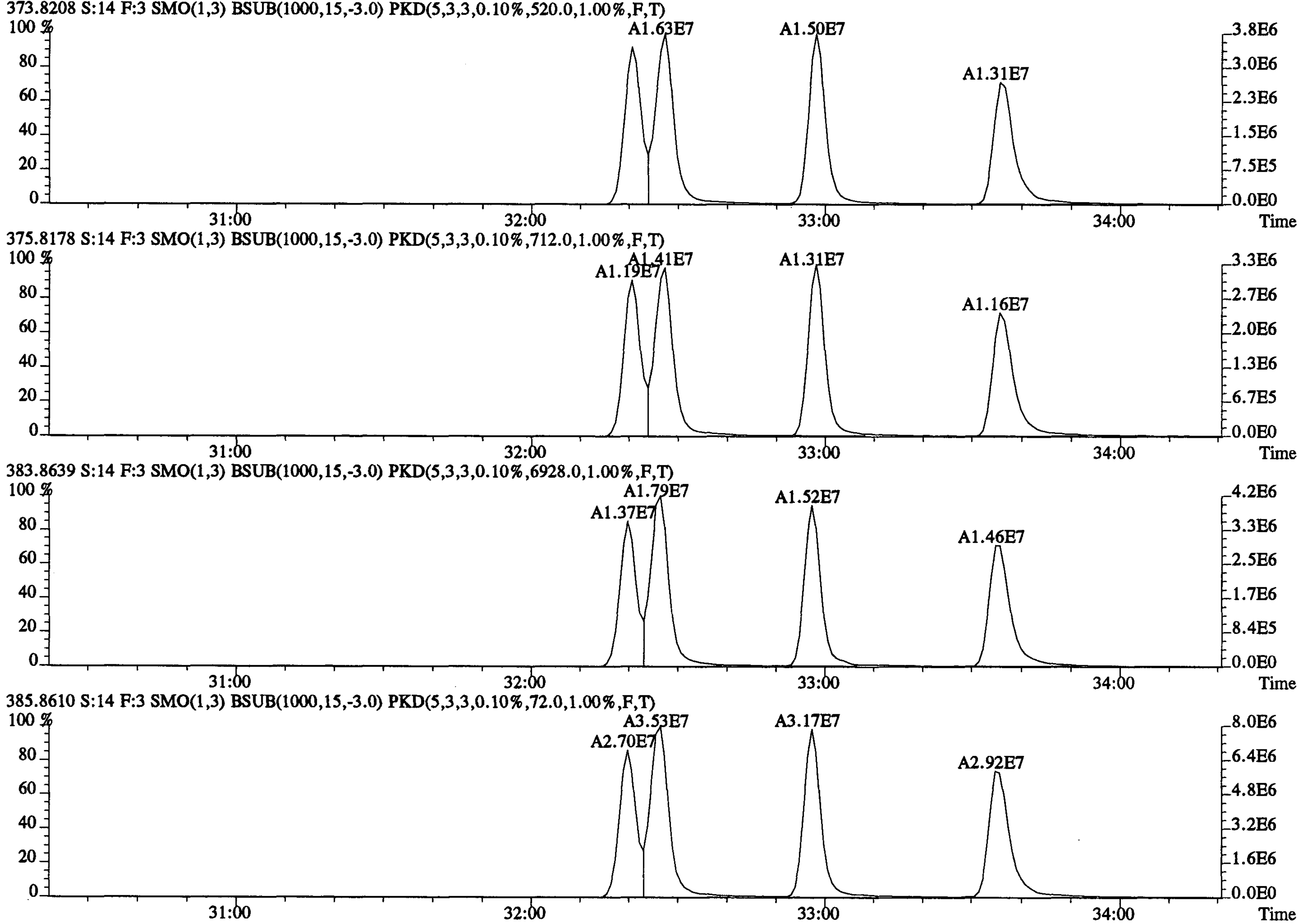
367.8949 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2508.0,1.00%,F,T)



369.8919 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,92.0,1.00%,F,T)



File:18OC104D5 #1-287 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES



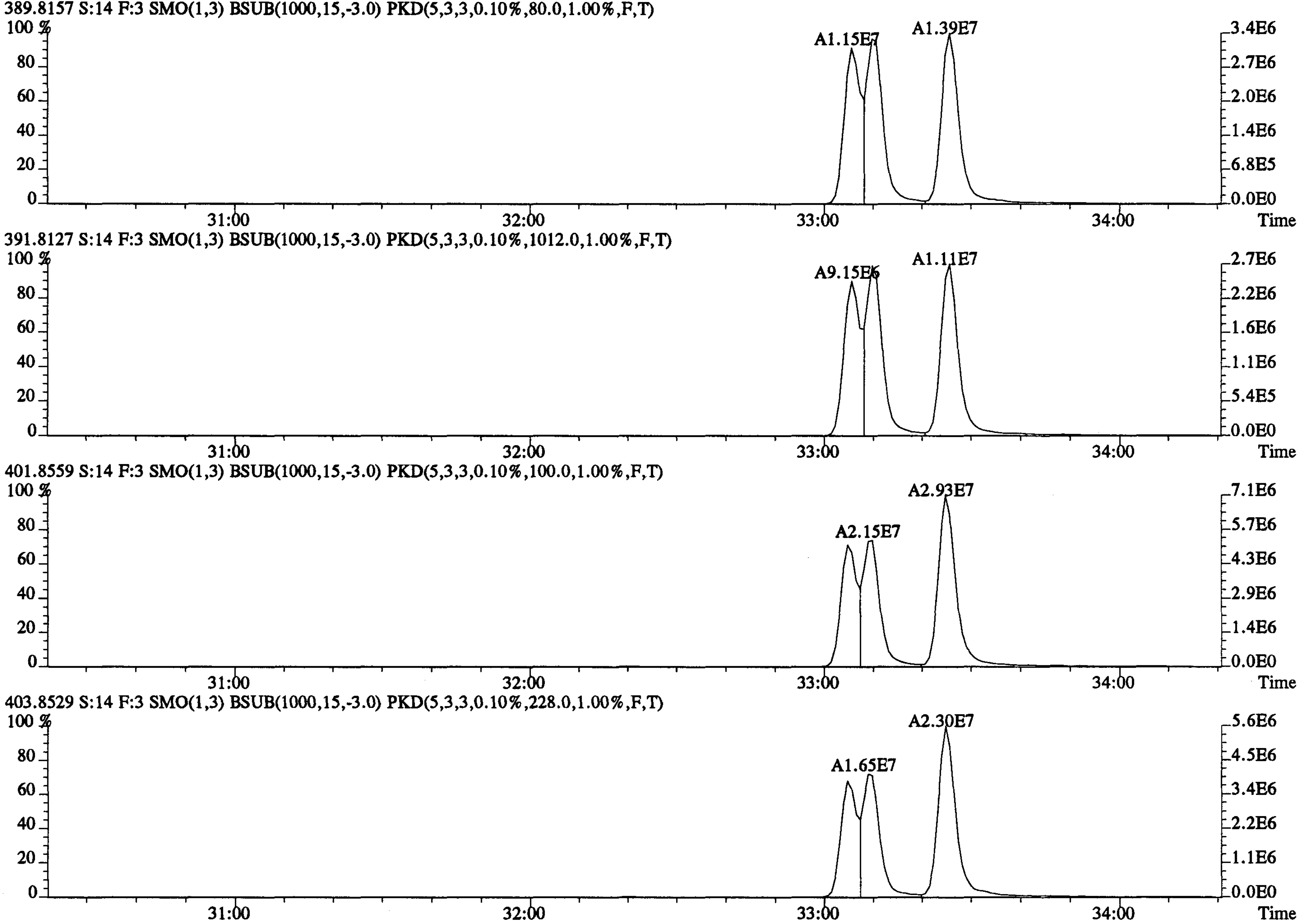
373.8208 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,520.0,1.00%,F,T)

375.8178 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,712.0,1.00%,F,T)

383.8639 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6928.0,1.00%,F,T)

385.8610 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,72.0,1.00%,F,T)

File:18OC104D5 #1-287 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES



389.8157 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,80.0,1.00%,F,T)

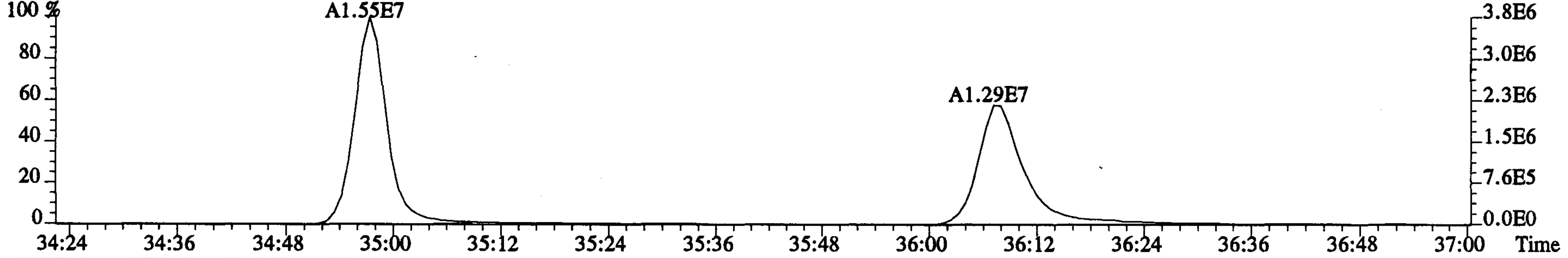
391.8127 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1012.0,1.00%,F,T)

401.8559 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,100.0,1.00%,F,T)

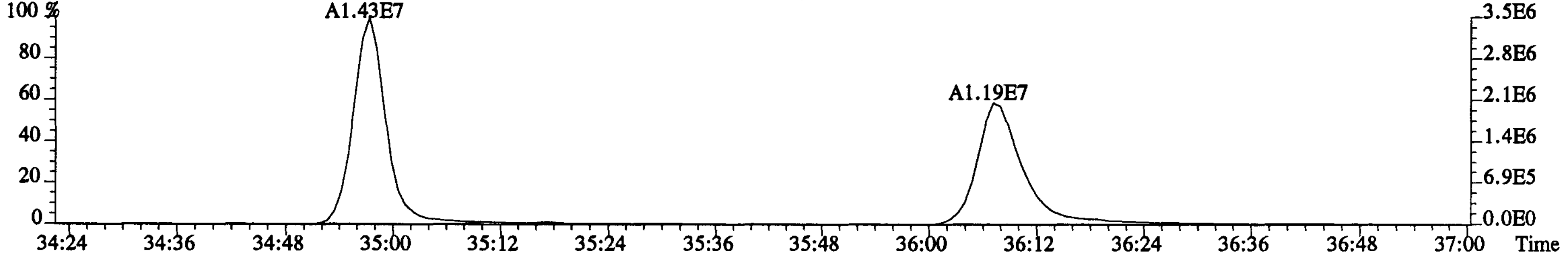
403.8529 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,228.0,1.00%,F,T)

File:18OC104D5 #1-200 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES

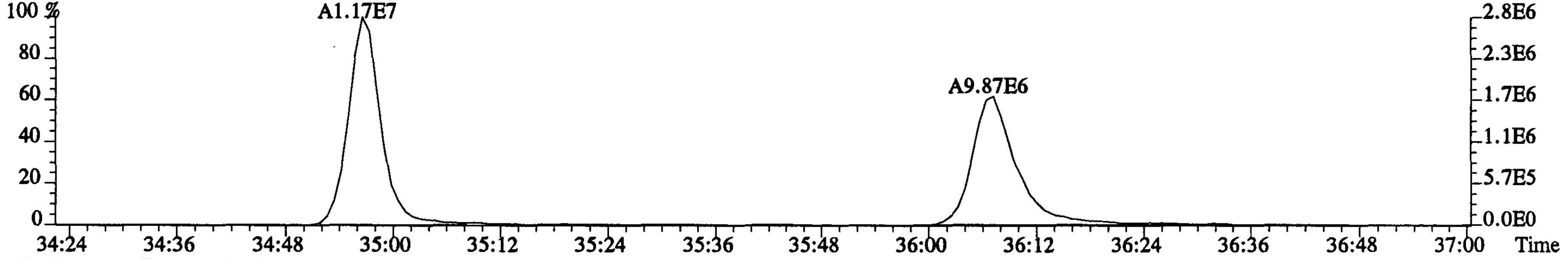
407.7818 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4120.0,1.00%,F,T)



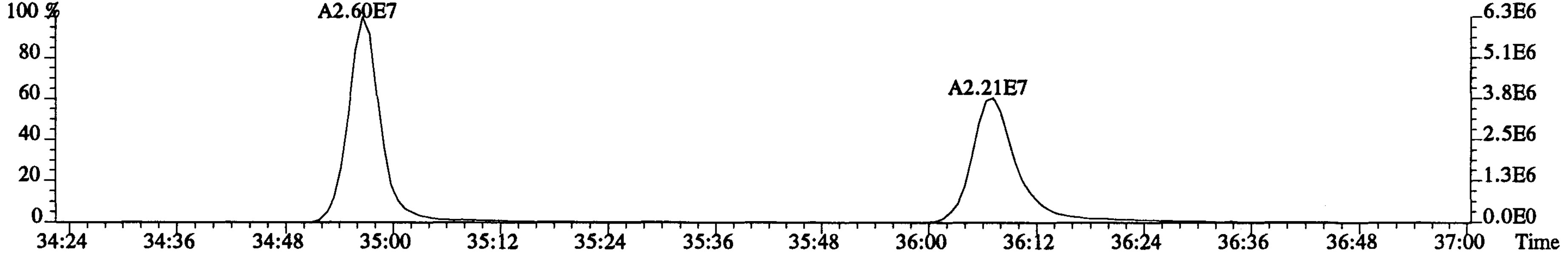
409.7789 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3172.0,1.00%,F,T)



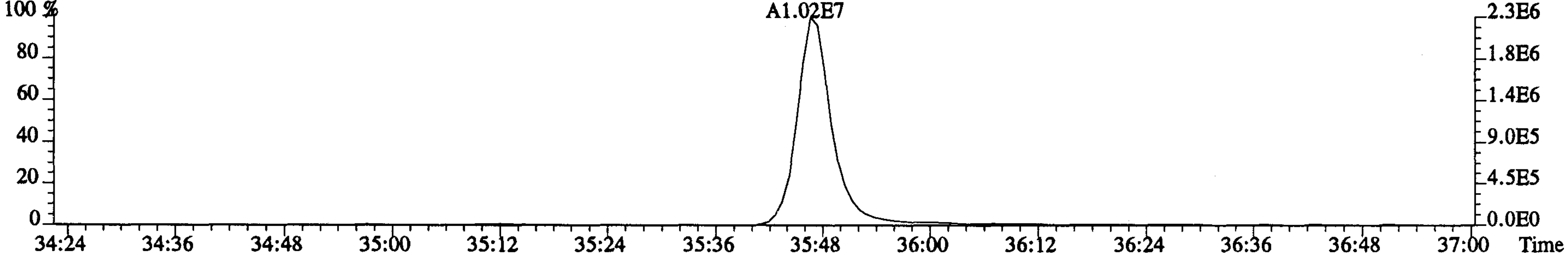
417.8253 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5320.0,1.00%,F,T)



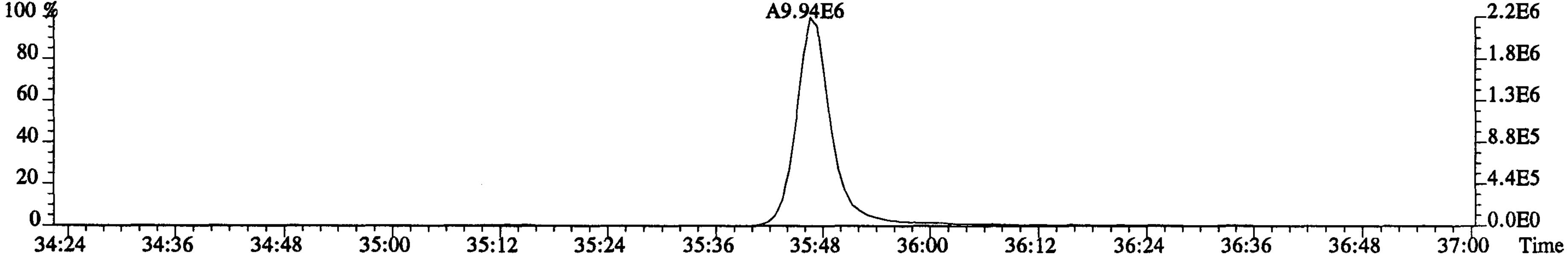
419.8220 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9804.0,1.00%,F,T)



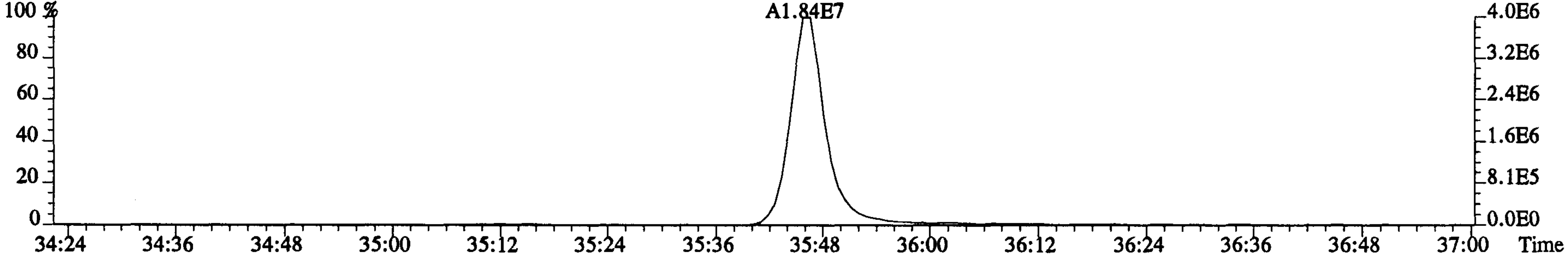
File:18OC104D5 #1-200 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES
423.7766 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2712.0,1.00%,F,T)



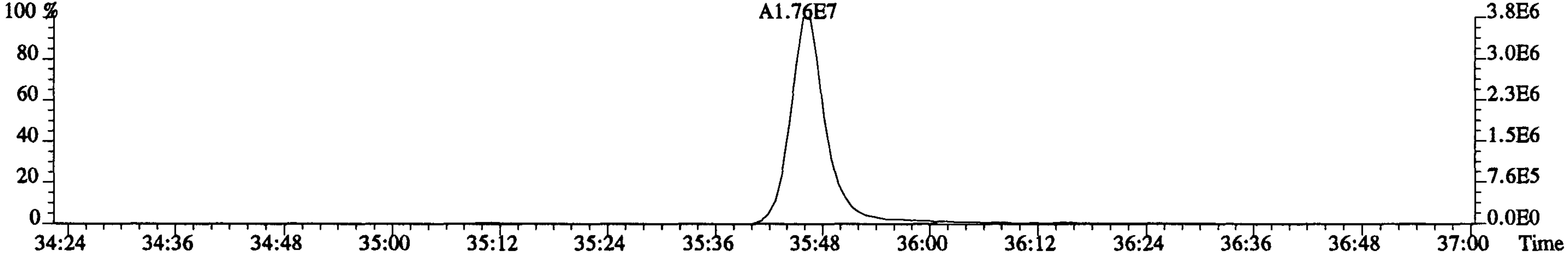
425.7737 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2464.0,1.00%,F,T)



435.8169 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3796.0,1.00%,F,T)

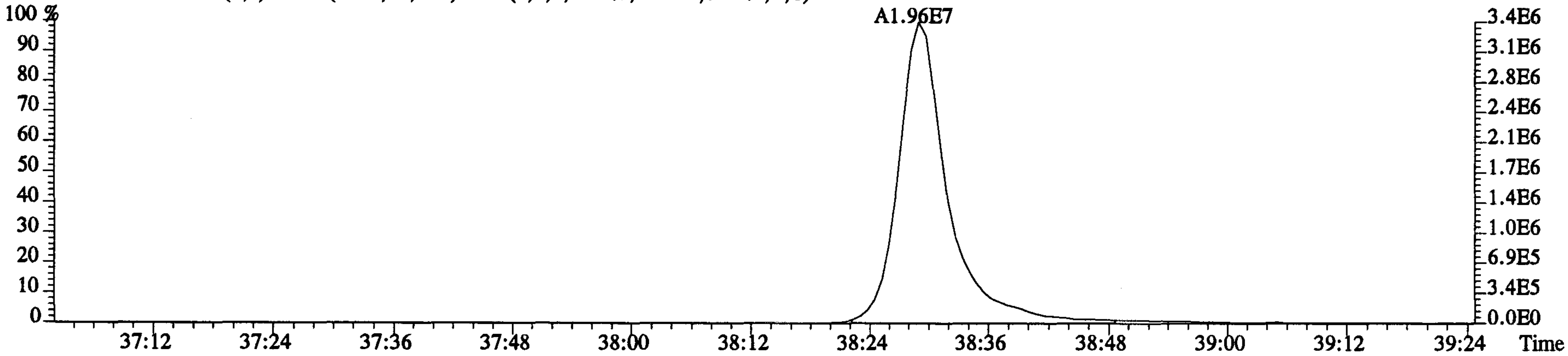


437.8140 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3920.0,1.00%,F,T)

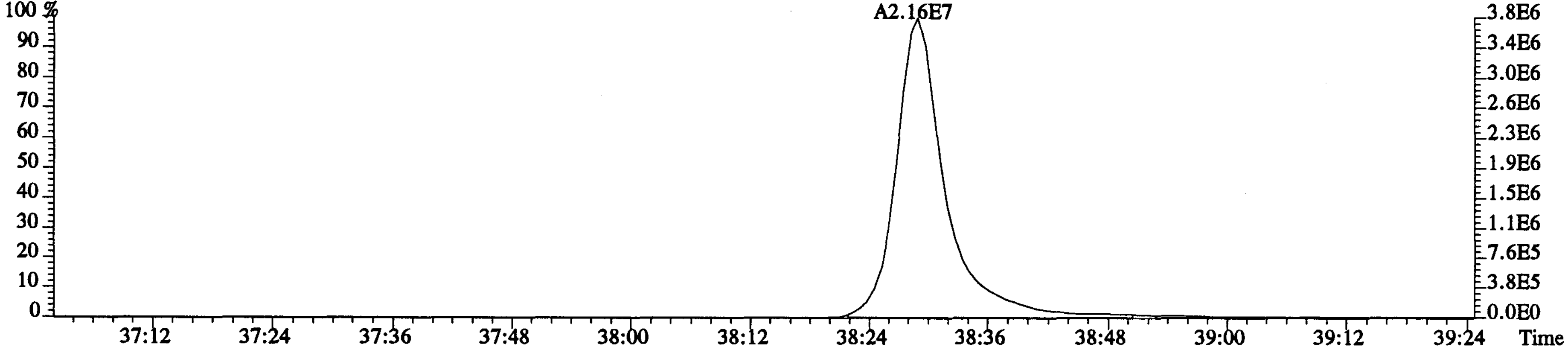


File:18OC104D5 #1-193 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES

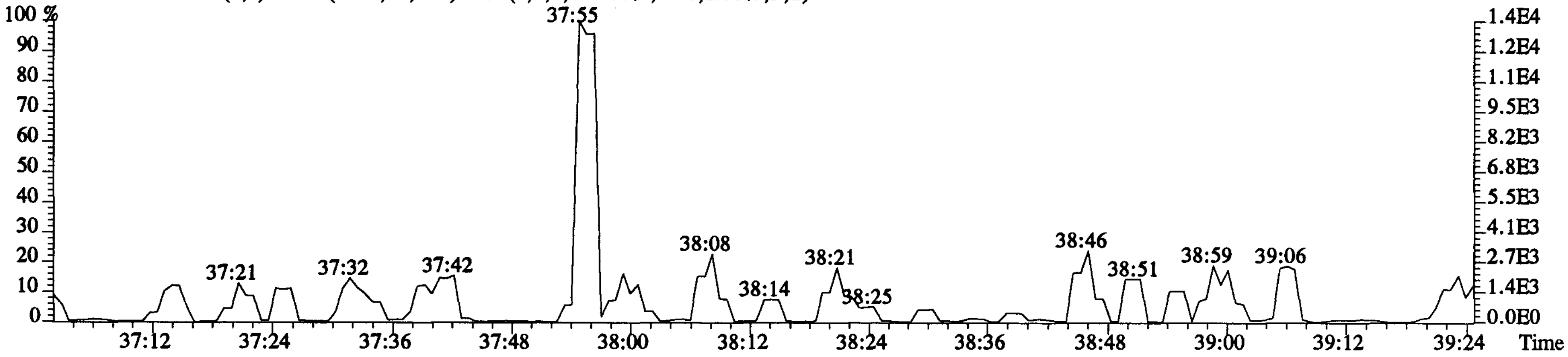
441.7428 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4256.0,1.00%,F,T)



443.7399 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1060.0,1.00%,F,T)

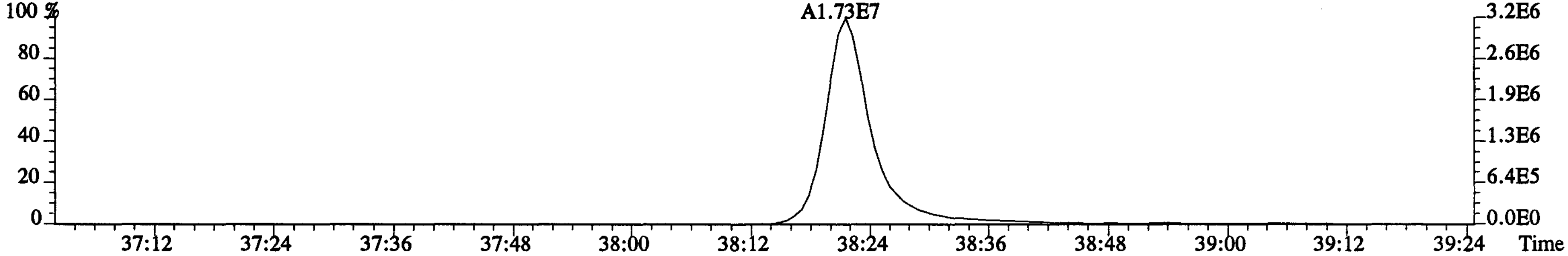


513.6775 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,60.0,1.00%,F,T)

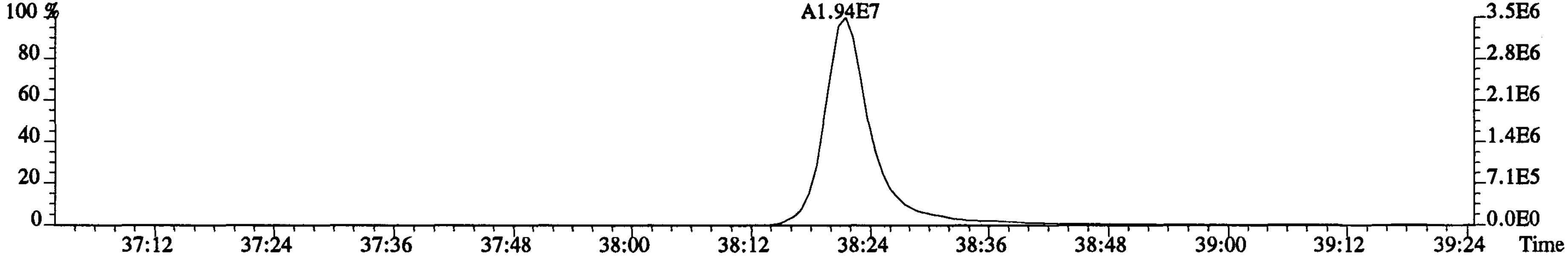


File:18OC104D5 #1-193 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES

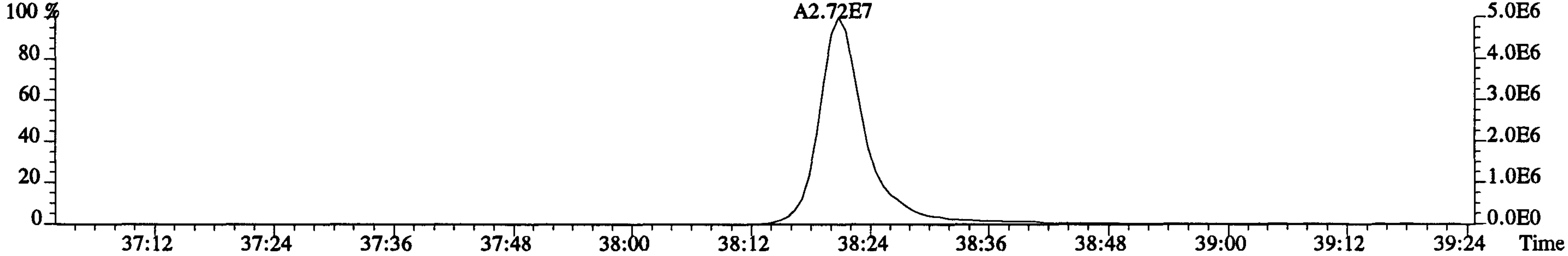
457.7377 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2872.0,1.00%,F,T)



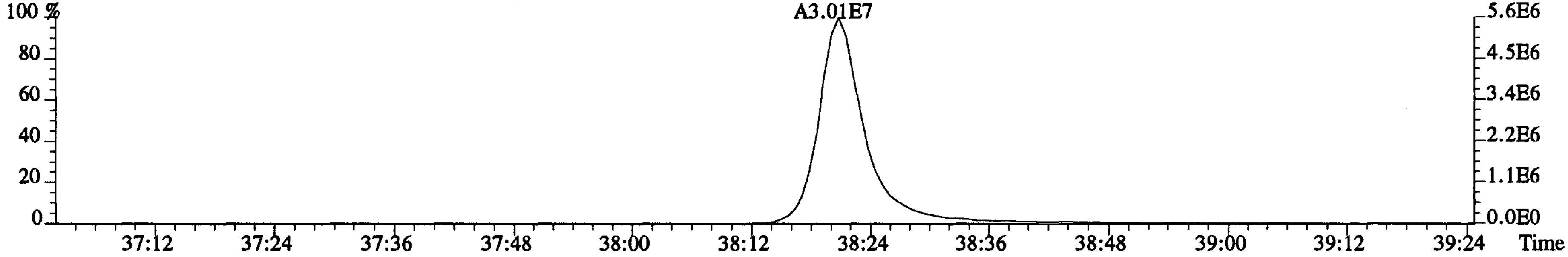
459.7348 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,912.0,1.00%,F,T)



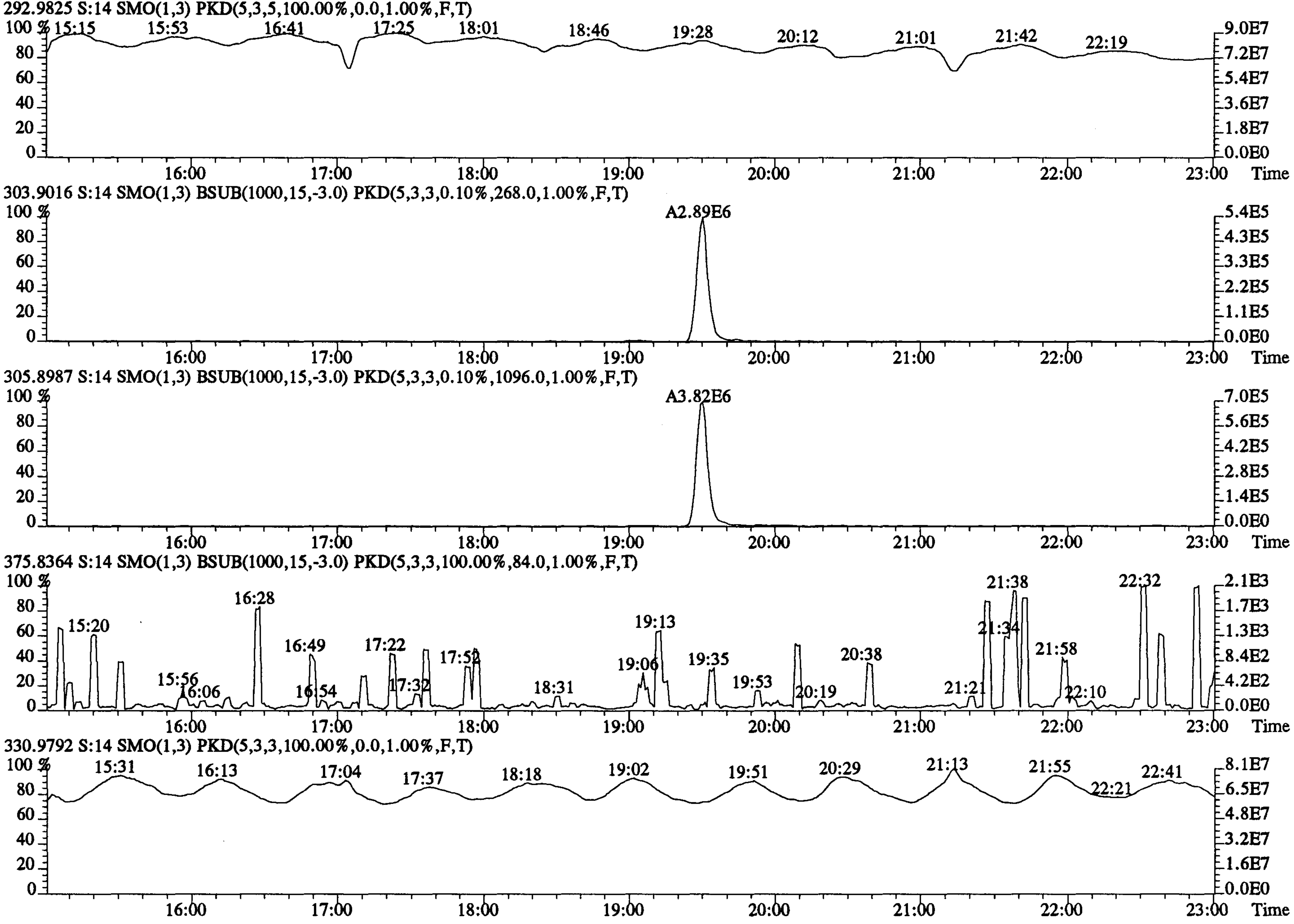
469.7779 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,60.0,1.00%,F,T)



471.7750 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6656.0,1.00%,F,T)



File:18OC104D5 #1-530 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES


292.9825 S:14 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

303.9016 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,268.0,1.00%,F,T)

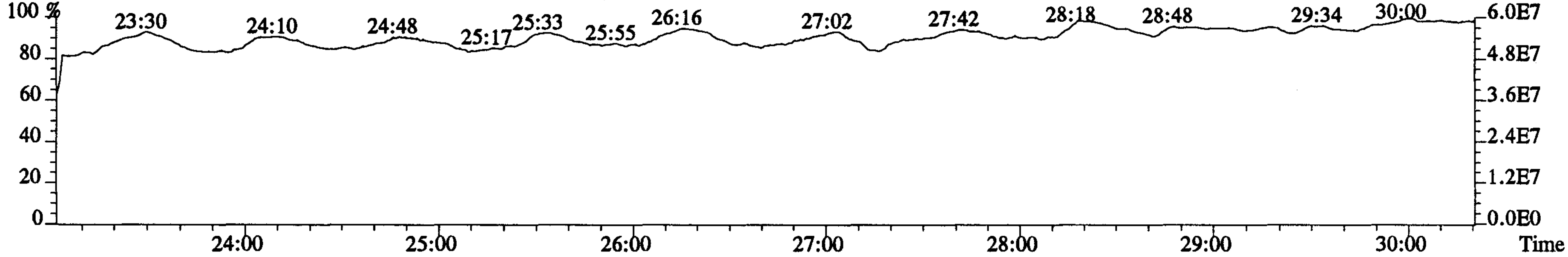
305.8987 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1096.0,1.00%,F,T)

375.8364 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,84.0,1.00%,F,T)

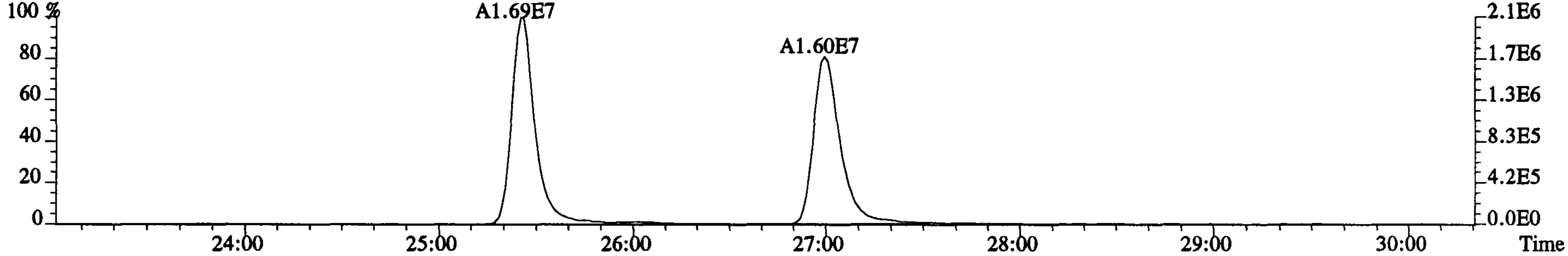
330.9792 S:14 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

File:18OC104D5 #1-470 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES

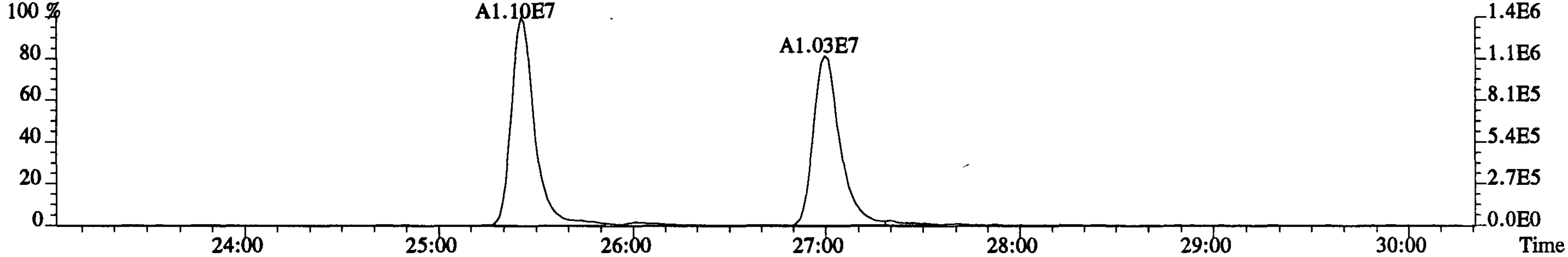
342.9792 S:14 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



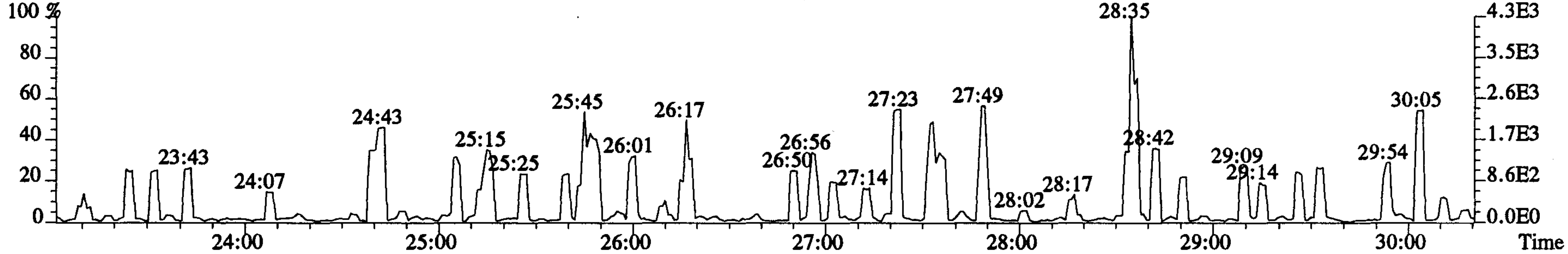
339.8597 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2468.0,1.00%,F,T)



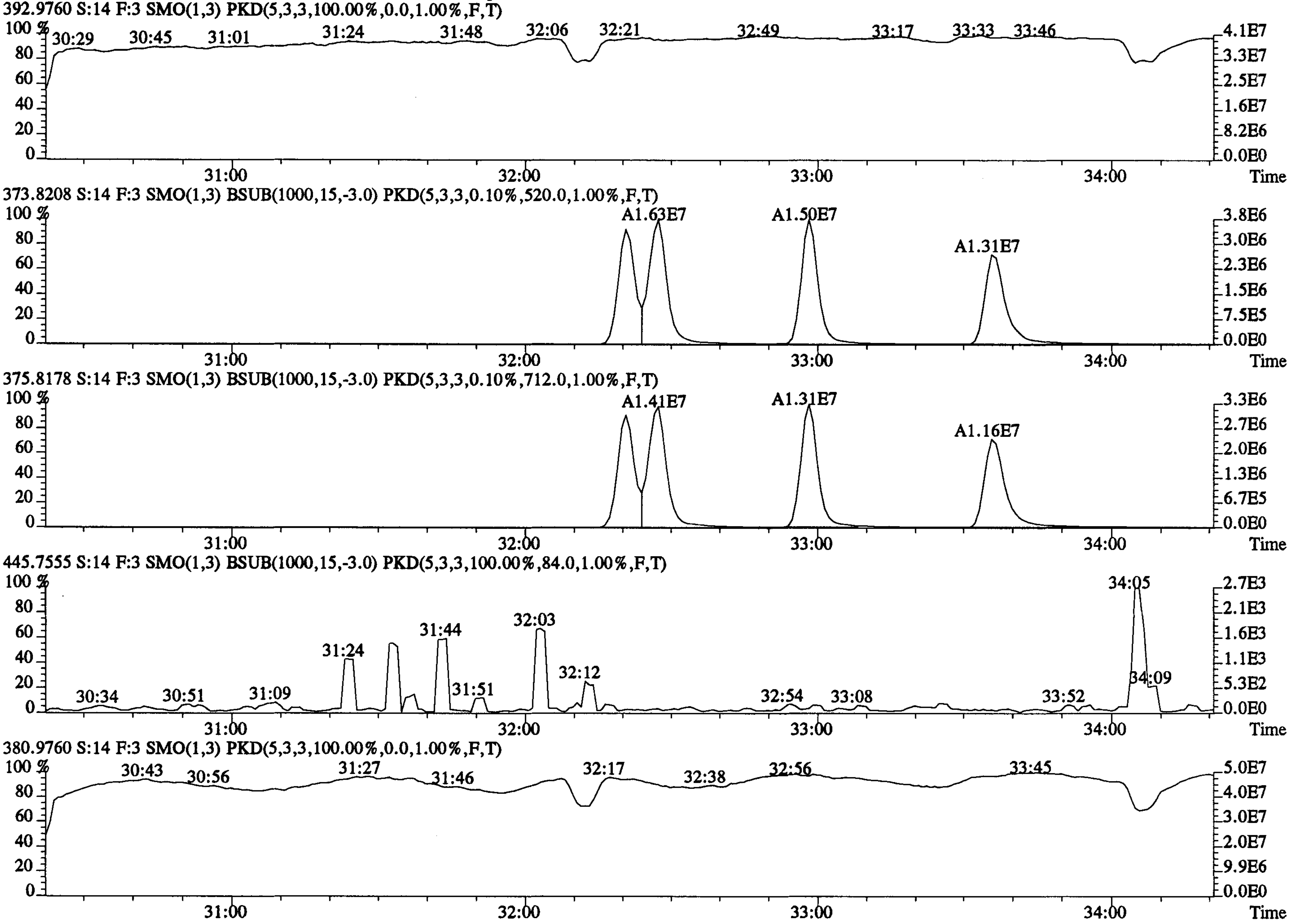
341.8567 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2028.0,1.00%,F,T)



409.7974 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,80.0,1.00%,F,T)

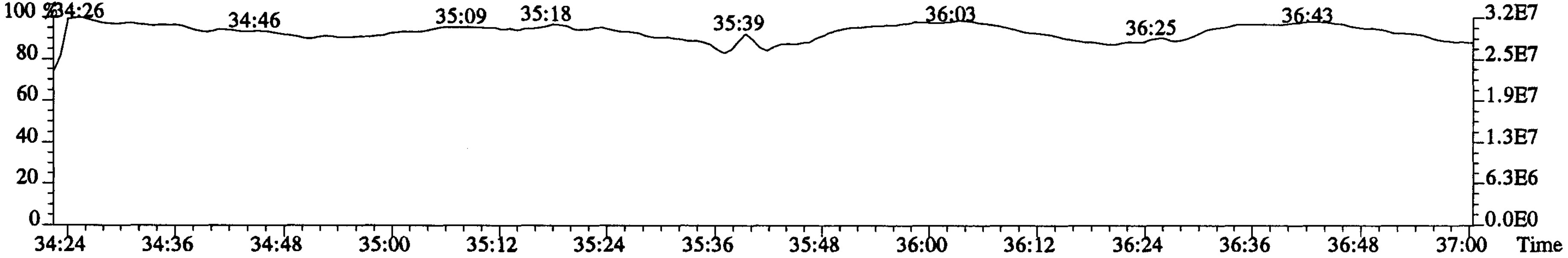


File:18OC104D5 #1-287 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES

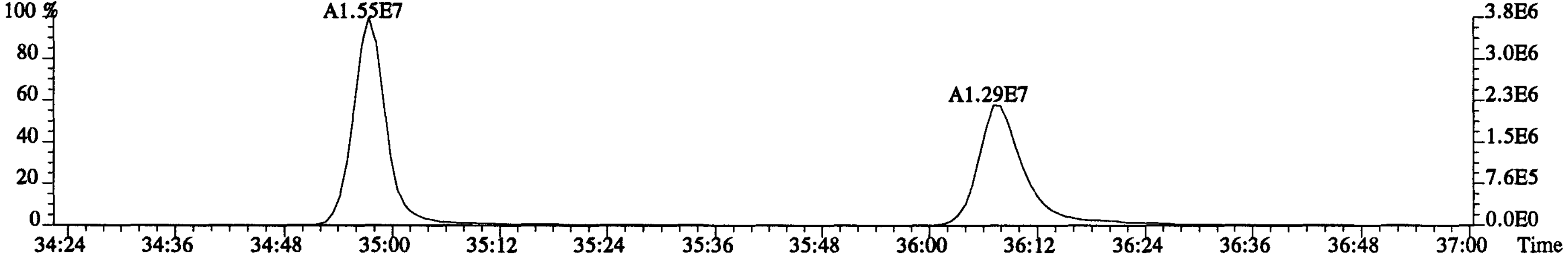


File:18OC104D5 #1-200 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES

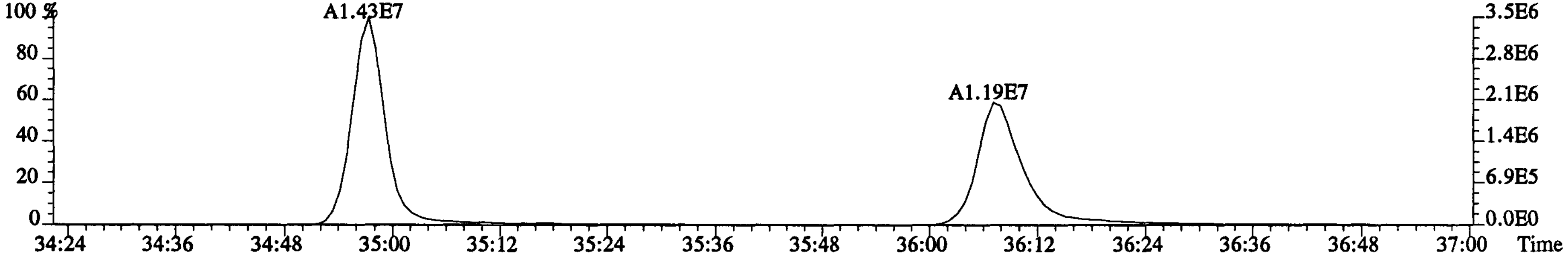
430.9728 S:14 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



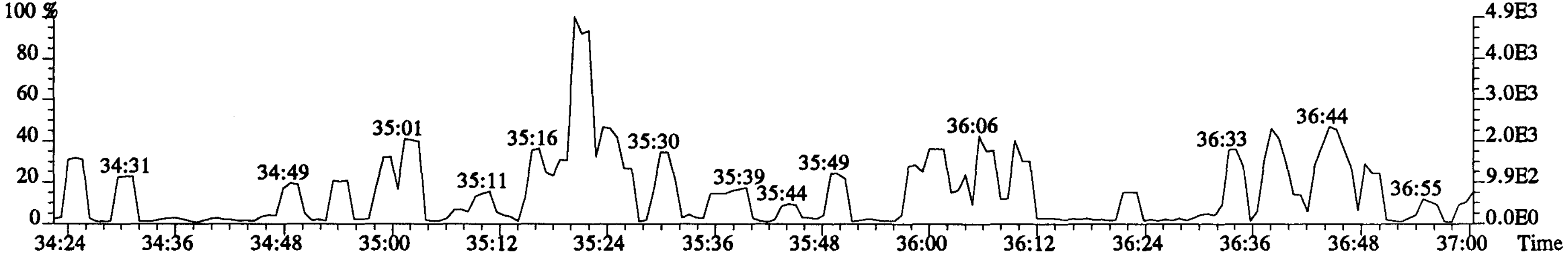
407.7818 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4120.0,1.00%,F,T)



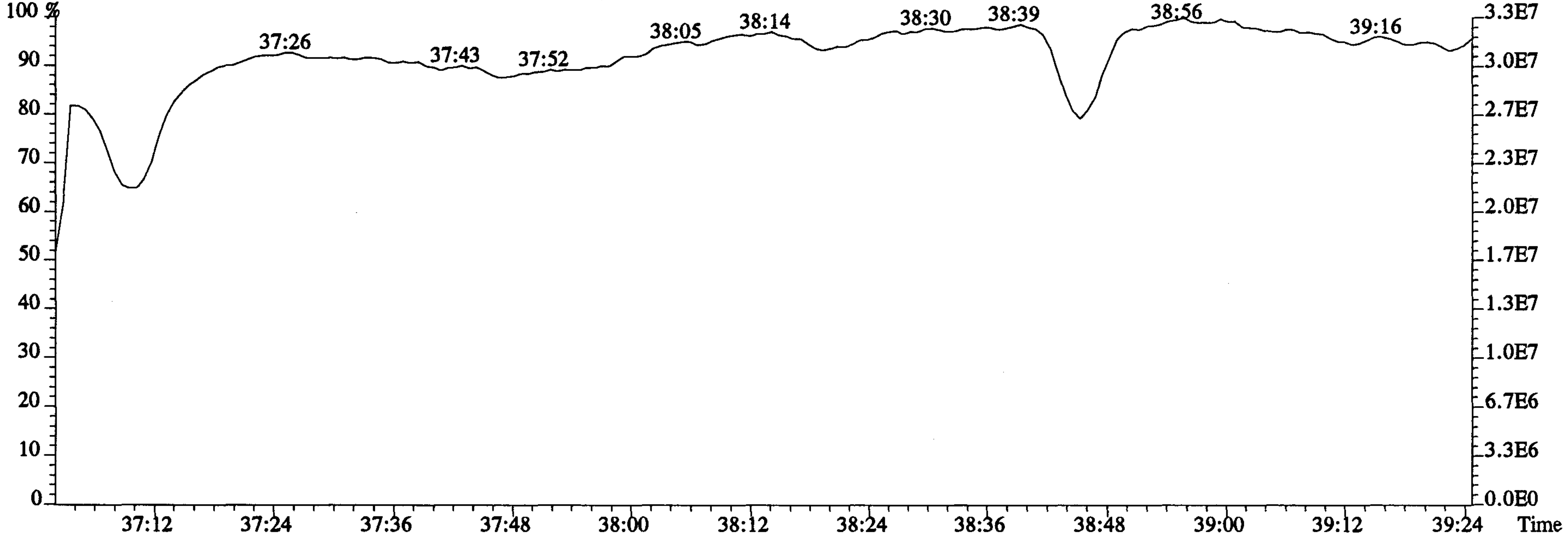
409.7789 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3172.0,1.00%,F,T)



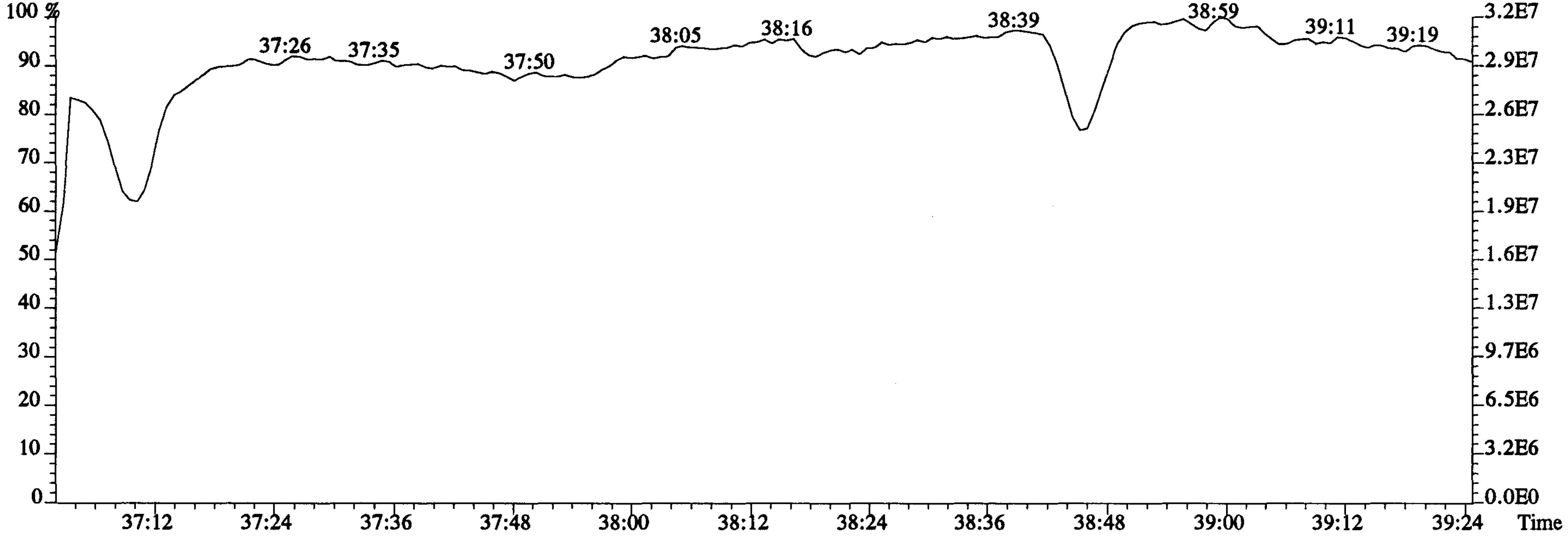
479.7165 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,124.0,1.00%,F,T)



File:18OC104D5 #1-193 Acq:18-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#14 Text:L8A5X-1-AC :G0J120000-255 (429DCS)RI Exp:DIOXINRES
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)



Run text: L8AK8-1-AA Sample text: L8AK8-1-AA :G0J120429-2
Run #20 Filename: 14OC104D5 S: 65 I: 1 Results: 14oc104d5to9
Acquired: 16-OCT-10 09:46:09 Processed: 18-OCT-10 10:57:49
Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.50 sam

AK 10/20/10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	119034300	0.79 y	20:05	-	71.28	-	-	n
13C-2,3,7,8-TCDF	122460600	0.79 y	19:29	1.23	3347.43	3.33	83.7	n
2,3,7,8-TCDF	315599	0.87 y	19:31	0.99	10.37 J	1.02	-	n
Total TCDF	1656149	0.58 n	15:21	0.99	~~54.39~~ ~~43.06~~ 45.532 10/21/2010 mw	1.02	-	n
13C-2,3,7,8-TCDD	90974500	0.77 y	20:19	0.91	3377.79	6.31	84.4	n
2,3,7,8-TCDD	*	* n	NotFnd	0.98	*	2.04	-	n
Total TCDD	83258	1.00 n	17:46	0.98	~~3.72~~	2.04	-	n
37Cl-2,3,7,8-TCDD	49982400	1.00 y	20:20	1.33	1657.26	0.19	103.6	n
13C-1,2,3,7,8-PeCDF	93900400	1.60 y	25:26	0.88	3601.86	6.02	90.0	n
1,2,3,7,8-PeCDF	164283	1.71 y	25:27	1.08	6.50 J	3.07	-	n
2,3,4,7,8-PeCDF	*	* n	NotFnd	1.05	*	3.16	-	n
Total F2 PeCDF	823337	1.61 y	23:35	1.06	~~32.96~~ 20.29 ✓	3.11	-	n
Total F1 PeCDF	146330	0.37 n	15:43	1.06	~~5.87~~	1.51	-	n
13C-1,2,3,7,8-PeCDD	62603000	1.58 y	27:53	0.66	3183.44	1.79	79.6	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.93	*	4.24	-	n
Total PeCDD	64790	3.13 n	24:57	0.93	~~4.47~~	4.24	-	n
13C-1,2,3,7,8,9-HxCDD	84001400	1.27 y	33:25	-	70.95	-	-	n
13C-1,2,3,4,7,8-HxCDF	61461900	0.51 y	32:21	1.04	2801.25	2.00	70.0	n
1,2,3,4,7,8-HxCDF	268469	1.39 y	32:21	1.22	14.35 J	1.33	-	y
1,2,3,6,7,8-HxCDF	216119	1.22 y	32:28	1.28	10.97 ↓	1.26	-	y
2,3,4,6,7,8-HxCDF	60375	0.87 n	32:58	1.23	3.19 JQ	1.31	-	y
1,2,3,7,8,9-HxCDF	45604	1.49 n	33:37	1.10	2.70 ↓	1.47	-	y
Total HxCDF	1445547	1.03 n	31:10	1.21	~~77.29~~ 76.08 ✓	1.34	-	y
13C-1,2,3,6,7,8-HxCDD	64122300	1.25 y	33:10	0.83	3675.28	1.30	91.9	n
1,2,3,4,7,8-HxCDD	13607	0.30 n	33:06	1.04	~~0.82~~	1.19	-	n
1,2,3,6,7,8-HxCDD	22028	0.48 n	33:10	1.16	1.18 JQ	1.06	-	n
1,2,3,7,8,9-HxCDD	23828	0.88 n	33:26	1.18	1.26 JQ ✓	1.04	-	n
Total HxCDD	165912	1.28 y	31:51	1.13	~~9.15~~ ~~7.795~~ 7.975 10/21/2010 mw	1.09	-	n
13C-1,2,3,4,6,7,8-HpCDF	59697900	0.45 y	34:57	0.91	3123.78	17.16	78.1	n
1,2,3,4,6,7,8-HpCDF	912551	1.17 y	34:57	1.35	45.43 J	1.92	-	n
1,2,3,4,7,8,9-HpCDF	230877	1.30 n	36:08	1.09	14.15 JQ	2.36	-	n
Total HpCDF	1582790	1.17 y	34:57	1.22	✓83.72	2.12	-	n
13C-1,2,3,4,6,7,8-HpCDD	60078000	1.05 y	35:47	0.83	3460.91	6.35	86.5	n
1,2,3,4,6,7,8-HpCDD	87505	0.85 n	35:47	1.07	5.44 JQ ✓	1.49	-	n
Total HpCDD	208099	0.97 y	35:13	1.07	~~12.93~~ 11.72	1.49	-	n
13C-OCDD	90608400	0.90 y	38:22	0.62	6960.20	7.17	87.0	n
OCDF	1593130	0.89 y	38:30	1.37	102.65	2.38	-	n

OCDD	261061	0.91	y	38:24	1.20	19.22	2.00	- n

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   Quantitation Summary    TestAmerica West Sacramento                   Page 15 of

 Run text: L8AK8-1-AA     Sample text: L8AK8-1-AA :G0J120429-2
 Run #20 Filename: 14OC104D5   S: 65   I: 1     Results: 14OC104D5TO9
 Acquired: 16-OCT-10   09:46:09          Processed: 18-OCT-10  10:57:49
 Run: 14OC104D5       Analyte: TO9        Cal: TO90721104D5
  Factor 1:1600.000    Factor 2:20.000      Sample size: 0.50   sam


              Name       Resp   RA      RT  RRF          Conc           EDL       Rec  M

     13C-1,2,3,4-TCDD  119034268 0.79 y  20:05    -        71.280             -         -  n

     13C-2,3,7,8-TCDF  122460524 0.79 y  19:29 1.23      3347.426         3.333      83.7  n
         2,3,7,8-TCDF     315599 0.87 y  19:31 0.99        10.365         1.025         -  n
           Total TCDF    1656148 0.58 n  15:21 0.99        54.394         1.025         -  n

     13C-2,3,7,8-TCDD   90974464 0.77 y  20:19 0.91      3377.787         6.308      84.4  n
         2,3,7,8-TCDD          *    * n NotFnd 0.98             *         2.039         -  n
           Total TCDD      83258 1.00 n  17:46 0.98         3.722         2.039         -  n

    37Cl-2,3,7,8-TCDD   49982488 1.00 y  20:20 1.33      1657.265         0.187     103.6  n

   13C-1,2,3,7,8-PeCDF  93900360 1.60 y  25:26 0.88      3601.857         6.023      90.0  n
       1,2,3,7,8-PeCDF    164283 1.71 y  25:27 1.08         6.500         3.067         -  n
       2,3,4,7,8-PeCDF         *    * n NotFnd 1.05             *         3.158         -  n
        Total F2 PeCDF    823337 1.61 y  23:35 1.06        32.958         3.112         -  n
        Total F1 PeCDF    146330 0.37 n  15:43 1.06         5.874         1.514         -  n

   13C-1,2,3,7,8-PeCDD  62602936 1.58 y  27:53 0.66      3183.438         1.794      79.6  n
       1,2,3,7,8-PeCDD         *    * n NotFnd 0.93             *         4.242         -  n
          Total PeCDD      64790 3.13 n  24:57 0.93         4.473         4.242         -  n

 13C-1,2,3,7,8,9-HxCDD  84001428 1.27 y  33:25    -        70.948             -         -  n

 13C-1,2,3,4,7,8-HxCDF  61461856 0.51 y  32:21 1.04      2801.247         1.999      70.0  n
     1,2,3,4,7,8-HxCDF    336863 1.29 y  32:21 1.22        18.011         1.330         -  n
     1,2,3,6,7,8-HxCDF    208497 1.18 y  32:28 1.28        10.587         1.263         -  n
     2,3,4,6,7,8-HxCDF    118605 0.99 n  32:56 1.23         6.258         1.313         -  n
     1,2,3,7,8,9-HxCDF    108796 1.27 y  33:37 1.10         6.448         1.474         -  n
          Total HxCDF    1410672 1.03 n  31:10 1.21        75.682         1.341         -  n

 13C-1,2,3,6,7,8-HxCDD  64122250 1.25 y  33:10 0.83      3675.279         1.304      91.9  n
     1,2,3,4,7,8-HxCDD         *    * n NotFnd 1.04             *         1.190         -  n
     1,2,3,6,7,8-HxCDD     22028 0.48 n  33:10 1.16         1.182         1.061         -  n
     1,2,3,7,8,9-HxCDD     23828 0.88 n  33:26 1.18         1.258         1.044         -  n
          Total HxCDD     152305 1.28 y  31:51 1.13         8.330         1.095         -  n

13C-1,2,3,4,6,7,8-HpCDF 59697950 0.45 y  34:57 0.91      3123.781        17.162      78.1  n
   1,2,3,4,6,7,8-HpCDF    912551 1.17 y  34:57 1.35        45.434         1.918         -  n
   1,2,3,4,7,8,9-HpCDF    230878 1.30 n  36:08 1.09        14.148         2.361         -  n
          Total HpCDF    1582792 1.17 y  34:57 1.22        83.720         2.117         -  n

13C-1,2,3,4,6,7,8-HpCDD 60078014 1.05 y  35:47 0.83      3460.911         6.352      86.5  n
   1,2,3,4,6,7,8-HpCDD     87505 0.85 n  35:47 1.07         5.436         1.494         -  n
          Total HpCDD     208099 0.97 y  35:13 1.07        12.928         1.494         -  n

             13C-OCDD   90608412 0.90 y  38:22 0.62      6960.195         7.167      87.0  n
```

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OCDF     1593131 0.89 y  38:30 1.37        102.650          2.385        -   n
OCDD      261061 0.91 y  38:24 1.20         19.219          1.996        -   n
```

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     Totals Results   TestAmerica West Sacramento              Page 1 of 9

  Run Text: L8AK8-1-AA              Sample text: L8AK8-1-AA :G0J120429-2

  Name: Total TCDF               F:1  Mass: 303.902 305.899   Mod? no   #Hom:22
  Run: 20 File: 14OC104D5    S:65  Acq:16-OCT-10 09:46:09
  Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D

    Amount:     27.197 of which      5.183 named and     22.014  unnamed
      Conc:     54.394 of which     10.365 named and     44.029  unnamed


 Name                       #   R.T.  Ratio        Conc.        Area      S/N >? Mod?

                            1  15:21  0.578 n     0.305         4042     2.307   n  n
                                                                6996     1.268   n  n

                            2  16:42  1.141 n     2.472 ✓      48513    17.470   y  n
                                                               42527     6.886   y  n

                            3  17:03  0.588 n     0.408         5402     4.014   y  n
                                                                9185     1.788   n  n

                            4  17:08  0.423 n     0.293         3887     2.952   n  n
                                                                9185     1.788   n  n

                            5  17:15  0.830 y     1.004        13858     8.905   y  n
                                                               16699     2.529   n  n

                            6  17:34  0.789 y     7.189 ✓      96500    37.639   y  n
                                                              122377    16.225   y  n

                            7  17:51  1.365 n     3.688 ✓      86618    28.071   y  n
                                                               63436     7.917   y  n

                            8  18:11  1.135 n     3.228 ✓      63043    18.110   y  n
                                                               55522     6.041   y  n

                            9  18:27  0.855 y     5.874 ✓      82434    27.663   y  n
                                                               96413     8.771   y  n

                           10 18:45  0.510 n     3.426 ✓      45382    17.398   y  n
                                                               88960     9.608   y  n

                           11 18:52  0.992 n     3.444 ✓      58752    18.461   y  n
                                                               59248     9.344   y  n

                           12 19:06  1.005 n     5.846 ✓     101034    40.192   y  n
                                                              100557    12.637   y  n

 2,3,7,8-TCDF              13 19:31  0.867 y    10.365 ✓     146519    46.084   y  n
                                                              169080    21.909   y  n

                           14 19:40  0.698 y     1.357 S/N   17106     9.682   y  n
                                                               24513     3.049   y  n

                           15 20:00  0.839 y     1.899        26380    11.152   y  n
                                                               31437     3.843   y  n
```

<S/N

```
                              16 20:16   0.927 n     1.423        22689     6.684   y  n
                                                                  24482     2.580   n  n

                              17 20:36   1.323 n     0.482        10978     4.744   y  n
                                                                   8300     1.471   n  n

                              18 20:45   1.989 n     0.268         9172     3.943   y  n
                                                                   4611     1.027   n  n

                              19 21:04   0.194 n     0.123         1633     1.248   n  n
                                                                   8396     1.452   n  n

                              20 21:39   0.896 n     0.595         9167     3.387   y  n
                                                                  10229     2.184   n  n

                              21 21:53   0.416 n     0.395         5237     3.610   y  n
                                                                  12589     1.812   n  n

                              22 22:38   0.628 n     0.299         3960     3.099   y  n
                                                                   6311     1.662   n  n


      Totals Results   TestAmerica West Sacramento                   Page 2 of 9

 Run Text: L8AK8-1-AA                 Sample text: L8AK8-1-AA :G0J120429-2

 Name: Total TCDD                 F:1  Mass: 319.897 321.894   Mod? no   #Hom:4
 Run: 20 File: 14OC104D5     S:65  Acq:16-OCT-10 09:46:09
 Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D5

   Amount:       1.861 of which           * named and      1.861  unnamed
     Conc:       3.722 of which           * named and      3.722  unnamed


Name                          #   R.T.  Ratio       Conc.        Area      S/N >? Mod?

                              1  17:46   0.996 n     0.956        12031     1.782   n  n
                                                                  12079     2.101   n  n

                              2  18:04   0.806 y     2.017        20133     4.882   y  n
                                                                  24977     4.757   y  n

                              3  19:29   9.803 n     0.236        29228     4.031   y  n
                                                                   2982     0.583   n  n

                              4  20:10   0.422 n     0.514         4999     1.163   n  n
                                                                  11843     1.975   n  n
```

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     Totals Results   TestAmerica West Sacramento              Page 3 of 9

 Run Text: L8AK8-1-AA               Sample text: L8AK8-1-AA :G0J120429-2

 Name: Total F2 PeCDF            F:2  Mass: 339.860 341.857   Mod? no   #Hom:10
 Run: 20 File: 14OC104D5    S:65  Acq:16-OCT-10 09:46:09
 Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D

   Amount:     16.479 of which      3.250 named and     13.229  unnamed
     Conc:     32.958 of which      6.500 named and     26.458  unnamed


Name                        #   R.T.  Ratio       Conc.       Area      S/N >? Mod?

                            1  23:35  1.611 y     2.865      44032     4.674   y  n
                                                             27333     2.181   n  n

                            2  23:53  1.580 y    13.785     210292    18.770   y  n
                                                            133098     8.087   y  n

                            3  24:26  0.560 n     0.669      10123     2.362   n  n
                                                             18067     2.000   n  n

                            4  24:46  2.398 n     0.881      20639     4.932   y  n
                                                              8607     1.443   n  n

                            5  24:52  0.995 n     2.812      42576     7.931   y  n
                                                             42810     3.920   y  n

                            6  24:56  3.362 n     1.558      51181     7.851   y  n
                                                             15221     2.430   n  n

                            7  25:18  3.523 n     1.622      55814     6.437   y  n
                                                             15842     1.754   n  n

1,2,3,7,8-PeCDF             8  25:27  1.709 y     6.500     103645     9.679   y  n
                                                             60638     4.937   y  n

                            9  25:60  0.715 n     0.715      10833     2.741   n  n
                                                             15145     2.022   n  n

                           10 26:06   3.461 n     1.560      52416     5.564   y  n
                                                             15145     2.022   n  n
```

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     Totals Results   TestAmerica West Sacramento              Page 4 of 9

 Run Text: L8AK8-1-AA               Sample text: L8AK8-1-AA :G0J120429-2

 Name: Total F1 PeCDF            F:1  Mass: 339.860 341.857   Mod? no   #Hom:10
 Run: 20 File: 14OC104D5    S:65  Acq:16-OCT-10 09:46:09
 Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D

   Amount:      2.937 of which          * named and      2.937  unnamed
     Conc:      5.874 of which          * named and      5.874  unnamed


Name                        #   R.T.  Ratio       Conc.       Area      S/N >? Mod?

                            1  15:43  0.370 n     0.106       1602     2.379   n  n
```

```
                                                        4335     0.948    n  n

                           2  16:01  0.271 n    0.207      3130     4.217    y  n
                                                       11533     1.535    n  n

                           3  16:08  0.952 n    0.253      3824     5.292    y  n
                                                        4018     0.878    n  n

                           4  16:51  0.612 n    0.126      1901     2.146    n  n
                                                        3108     0.835    n  n

                           5  17:02  0.438 n    1.029     15588    14.293    y  n
                                                       35589     5.400    y  n

                           6  17:19  0.183 n    0.124      1880     2.667    n  n
                                                       10252     1.116    n  n

                           7  18:45  0.729 n    0.434      6576     7.721    y  n
                                                        9015     1.788    n  n

                           8  21:12  0.190 n    0.253      3833     5.681    y  n
                                                       20156     3.407    y  n

                           9  21:48  0.837 n    0.248      3751     4.346    y  n
                                                        4481     0.997    n  n

                          10 21:60  2.067 n    3.095     62500    48.445    y  n
                                                       30234     4.118    y  n

     Totals Results   TestAmerica West Sacramento               Page 5 of 9

 Run Text: L8AK8-1-AA                  Sample text: L8AK8-1-AA :G0J120429-2

 Name: Total PeCDD              F:2  Mass: 355.855 357.852   Mod? no   #Hom:2
 Run: 20 File: 14OC104D5    S:65  Acq:16-OCT-10 09:46:09
 Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D

   Amount:      2.237 of which          * named and      2.237  unnamed
     Conc:      4.473 of which          * named and      4.473  unnamed


Name                      #   R.T.  Ratio       Conc.        Area     S/N >? Mod?

                          1  24:57  3.130 n    0.414      7361     1.680    n  n
                                                       2352     1.214    n  n

                          2  27:14  3.714 n    4.059     85625     8.830    y  n
                                                      23056     6.441    y  n
```

```
     Totals Results   TestAmerica West Sacramento              Page 6 of 9

 Run Text: L8AK8-1-AA                 Sample text: L8AK8-1-AA :G0J120429-2

 Name: Total HxCDF               F:3  Mass: 373.821 375.818   Mod? no   #Hom:10
 Run: 20 File: 14OC104D5    S:65  Acq:16-OCT-10 09:46:09
 Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D

   Amount:     37.841 of which     20.652 named and     17.189  unnamed
     Conc:     75.682 of which     41.304 named and     34.378  unnamed


Name                       #   R.T.  Ratio       Conc.        Area      S/N >? Mod?

                           1  31:10  1.029 n     8.085       83050     9.040   y  n
                                                             80682    19.608   y  n

                           2  31:21  1.211 y    15.954      162151    22.441   y  n
                                                            133876    40.285   y  n

                           3  31:44  0.866 n     2.301       23636     4.026   y  n
                                                             27287    10.170   y  n

                           4  31:56  0.758 n     1.213       12458     2.032   n  n
                                                             16436     5.092   y  n

1,2,3,4,7,8-HxCDF          5  32:21  1.295 y    18.011      190080    29.632   y  n
                                                            146783    50.920   y  n

1,2,3,6,7,8-HxCDF          6  32:28  1.182 y    10.587      112929    18.711   y  n
                                                             95568    38.649   y  n

                           7  32:35  0.883 n     3.315       34053     6.714   y  n
                                                             38559    12.101   y  n

                           8  32:46  0.980 n     3.511       36060     4.886   y  n
                                                             36813    12.926   y  n

2,3,4,6,7,8-HxCDF          9  32:56  0.994 n     6.258       65656     8.503   y  n
                                                             66083    18.514   y  n

1,2,3,7,8,9-HxCDF         10  33:37  1.269 y     6.448       60855     5.653   y  n
                                                             47941     8.300   y  n
```

see QA

```
     Totals Results   TestAmerica West Sacramento              Page 7 of 9

 Run Text: L8AK8-1-AA                 Sample text: L8AK8-1-AA :G0J120429-2

 Name: Total HxCDD               F:3  Mass: 389.816 391.813   Mod? no   #Hom:5
 Run: 20 File: 14OC104D5    S:65  Acq:16-OCT-10 09:46:09
 Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D

   Amount:      4.165 of which      1.220 named and      2.945  unnamed
     Conc:      8.330 of which      2.440 named and      5.891  unnamed


Name                       #   R.T.  Ratio       Conc.        Area      S/N >? Mod?

                           1  31:51  1.279 y     1.355 S/N   13739     3.894   y  n
```

6A

```
Run Text: L8AK8-1-AA                    Sample text: L8AK8-1-AA :G0J120429-2

Name: Total HxCDF                 F:3  Mass: 373.821 375.818   Mod? yes  #Hom:13
Run: 20 File: 14OC104D5     S:65  Acq:16-OCT-10 09:46:09
Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14oc104d╗

  Amount:      38.65 of which      15.61 named and      23.04  unnamed
    Conc:      77.29 of which      31.22 named and      46.08  unnamed


Name                        #   R.T.  Ratio      Conc.        Area      S/N >? Mod?

                            1  31:10  1.03  n     8.09       83050       9.0   y  n
                                                             80682      19.6   y  n

                            2  31:21  1.21  y    15.95      162151      22.4   y  n
                                                            133876      40.3   y  n

                            3  31:44  0.87  n     2.30       23636       4.0   y  n
                                                             27287      10.2   y  n

                            4  31:56  0.76  n     1.21       12458       2.0   n  n
                                                             16436       5.1   y  n

                            5  32:19  1.15  y     4.34       43039      14.1   y  y
                                                             37460      28.1   y  y

1,2,3,4,7,8-HxCDF           6  32:21  1.39  y    14.35      156171      30.2   y  y
                                                            112298      51.4   y  y

1,2,3,6,7,8-HxCDF           7  32:28  1.22  y    10.97      118576      19.3   y  y
                                                             97543      39.1   y  y

                            8  32:35  1.10  y     4.02       39171       7.3   y  y
                                                             35508      12.6   y  y

                            9  32:46  0.98  n     3.51       36060       4.9   y  n
                                                             36813      12.9   y  n

                            10 32:56  1.28  y     3.43       35812       8.8   y  y
                                                             27911      15.8   y  y

2,3,4,6,7,8-HxCDF           11 32:58  0.87  n     3.19       33422       7.3   y  y
                                                             38255      19.0   y  y

1,2,3,7,8,9-HxCDF           12 33:37  1.49  n     2.70       30400       6.2   y  y
                                                             20359       8.6   y  y

                            13 33:40  1.49  n     3.22       39833       5.9   y  y
                                                             26646       8.5   y  y
```

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                                                             10743     2.381    n  n

                            2  32:21  2.627 n     2.552      54071    11.129    y  n
                                                             20585     3.754    y  n

                            3  32:36  1.742 n     1.984      27880     8.610    y  n
                                                             16008     3.549    y  n

1,2,3,6,7,8-HxCDD           4  33:10  0.479 n     1.182      12194     5.019    y  n
                                                             25476     5.538    y  n

1,2,3,7,8,9-HxCDD           5  33:26  0.883 n     1.258      13190     4.287    y  n
                                                             14932     3.340    y  n


      Totals Results   TestAmerica West Sacramento                 Page 8 of 9

 Run Text: L8AK8-1-AA                 Sample text: L8AK8-1-AA :G0J120429-2

 Name: Total HpCDF                F:4  Mass: 407.782 409.779   Mod? no    #Hom:4
 Run: 20 File: 14OC104D5     S:65  Acq:16-OCT-10 09:46:09
 Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D

   Amount:     41.860 of which     29.791 named and     12.069  unnamed
     Conc:     83.720 of which     59.582 named and     24.138  unnamed


Name                        #   R.T.  Ratio       Conc.        Area      S/N >? Mod?

1,2,3,4,6,7,8-HpCDF         1  34:57  1.170 y    45.434     491934    60.235    y  n
                                                            420617    74.253    y  n

                            2  35:10  1.045 y     9.695      90192    12.851    y  n
                                                             86285    14.350    y  n

                            3  35:18  1.092 y    14.443     137194    14.466    y  n
                                                            125691    19.570    y  n

1,2,3,4,7,8,9-HpCDF         4  36:08  1.298 n    14.148     146849    15.825    y  n
                                                            113175    15.507    y  n
```

```
 Run Text: L8AK8-1-AA                  Sample text: L8AK8-1-AA :G0J120429-2

 Name: Total HpCDD                 F:4  Mass: 423.777 425.774   Mod? no   #Hom:3
 Run: 20 File: 14OC104D5    S:65  Acq:16-OCT-10 09:46:09
 Tables: Run: 14OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 14OC104D

   Amount:       6.464 of which      2.718 named and      3.746  unnamed
     Conc:      12.928 of which      5.436 named and      7.492  unnamed

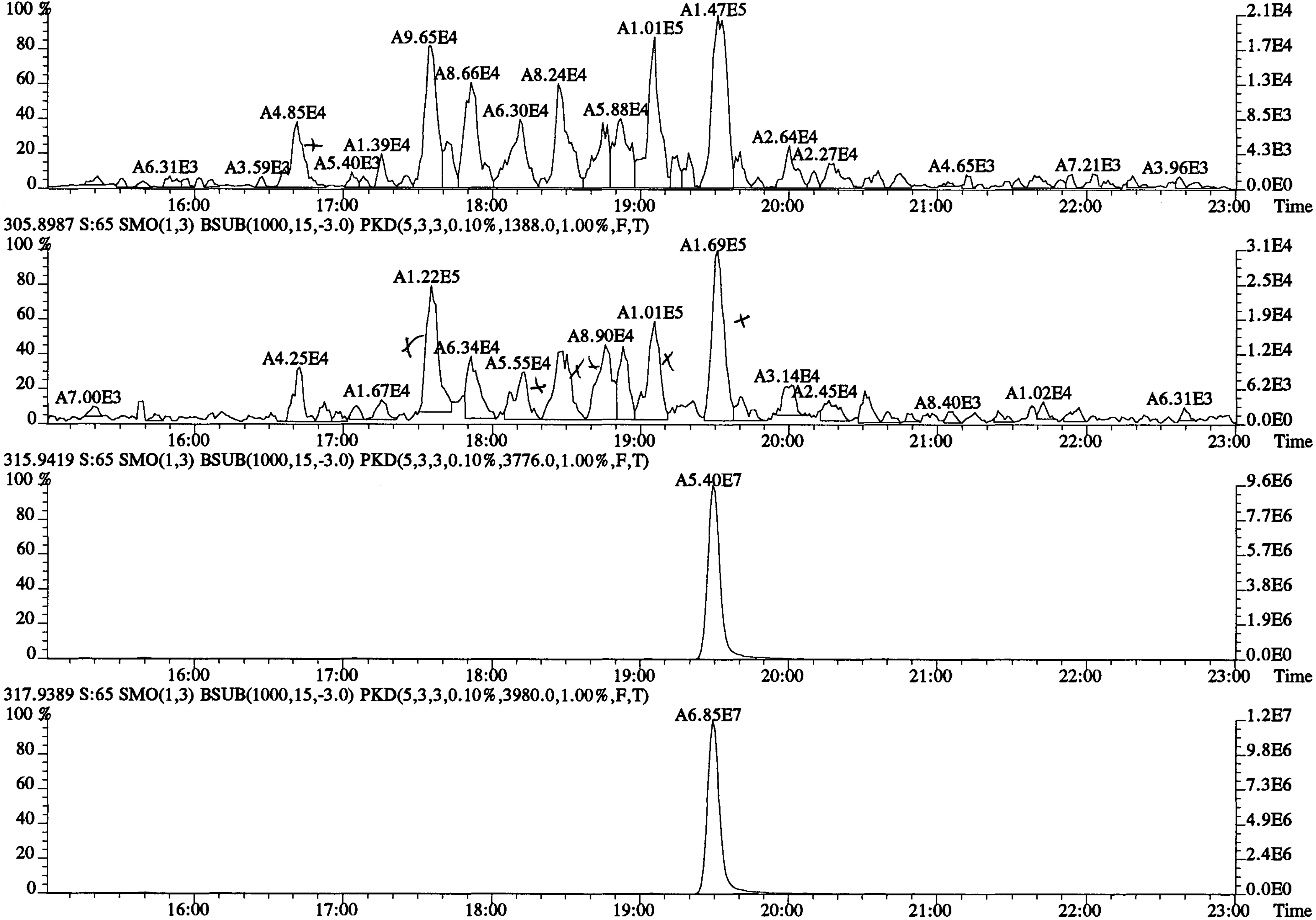

Name                       #   R.T.  Ratio       Conc.        Area      S/N >? Mod?

                           1  35:13  0.971 y     6.285       49843    12.260   y  n
                                                             51322    17.152   y  n

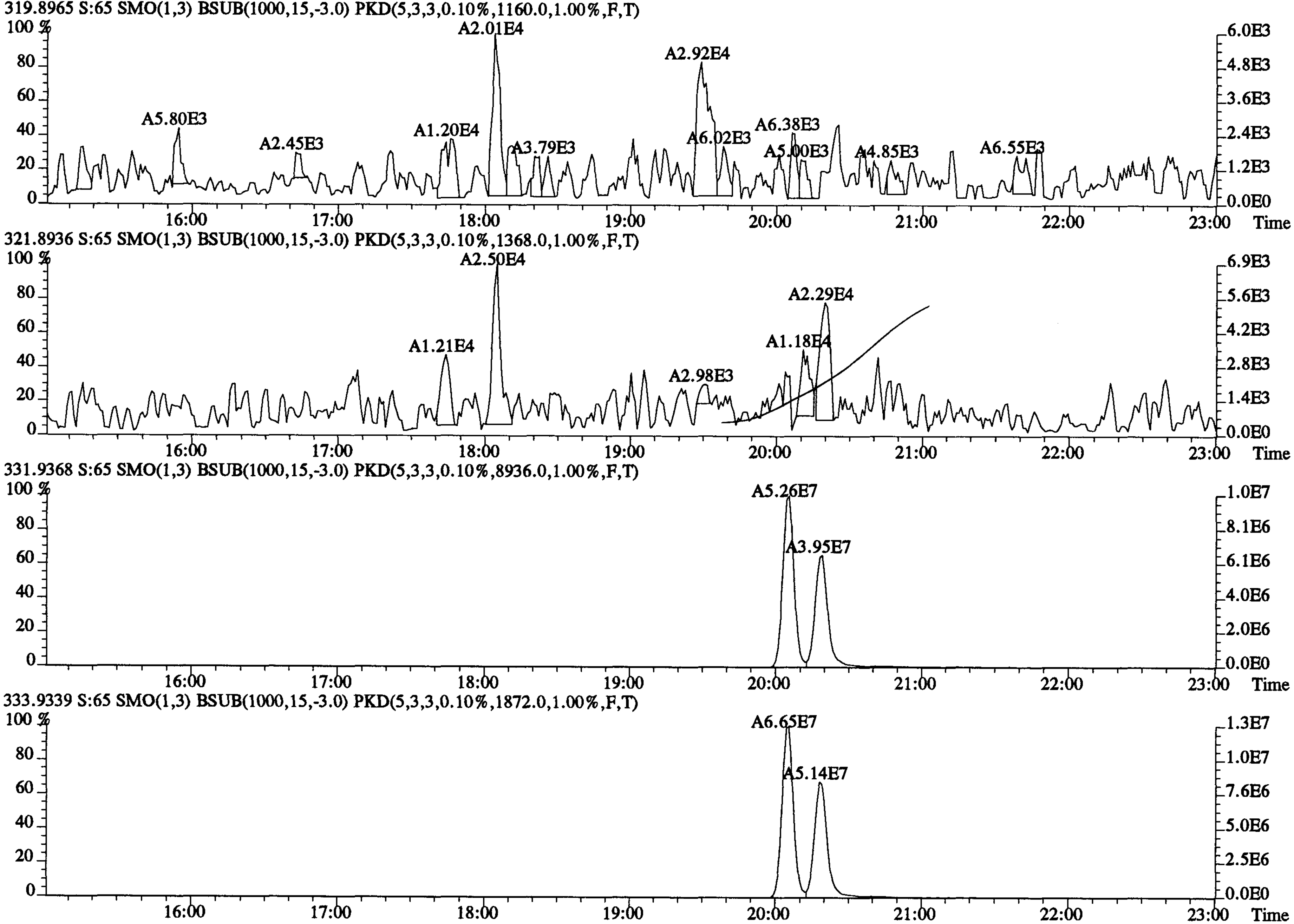
1,2,3,4,6,7,8-HpCDD        2  35:47  0.853 n     5.436       44610    10.250   y  n
                                                             52279    12.557   y  n

                           3  36:07  2.338 n     ~~1.207~~       22272     5.940   y  n
                                                              9524     1.937   n  n
```

File:14OC104D5 #1-530 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES
303.9016 S:65 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,460.0,1.00%,F,T)



File:14OC104D5 #1-530 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES



319.8965 S:65 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1160.0,1.00%,F,T)

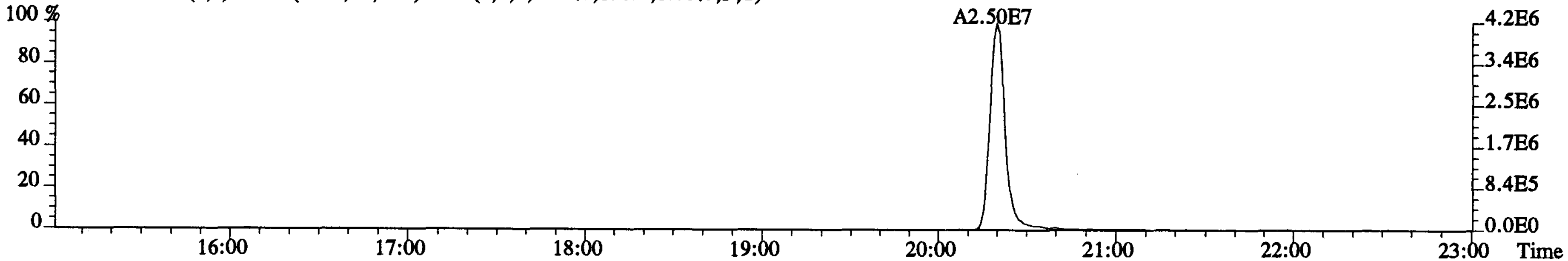
321.8936 S:65 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1368.0,1.00%,F,T)

331.9368 S:65 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8936.0,1.00%,F,T)

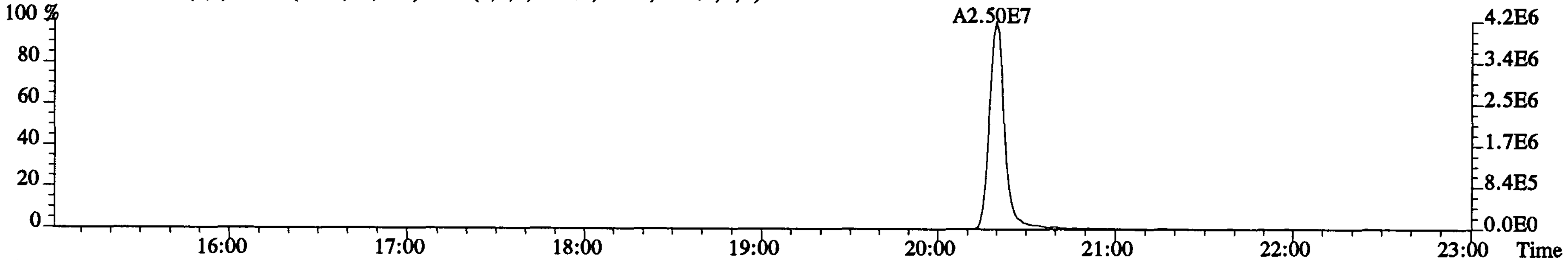
333.9339 S:65 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1872.0,1.00%,F,T)

File:14OC104D5 #1-530 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES

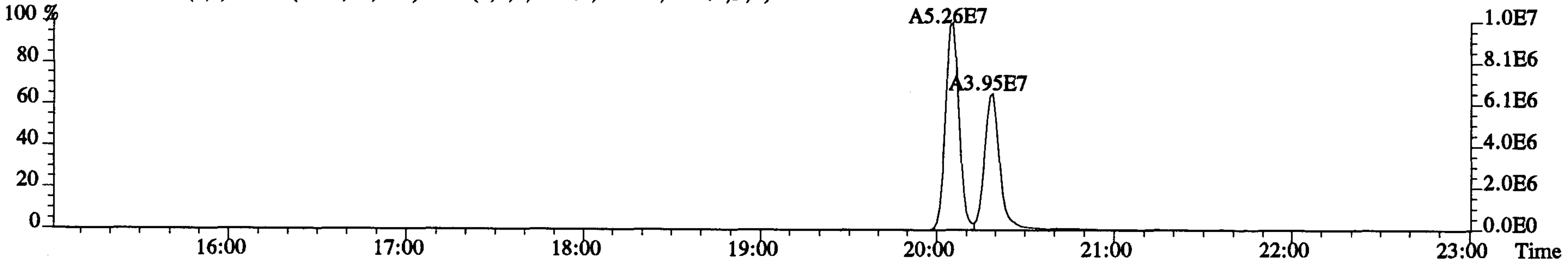
327.8847 S:65 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,156.0,1.00%,F,T)



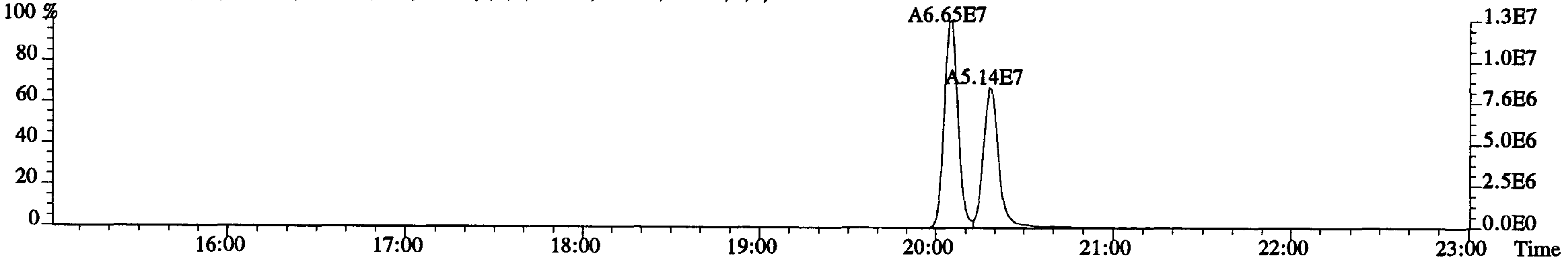
327.8847 S:65 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,156.0,1.00%,F,T)



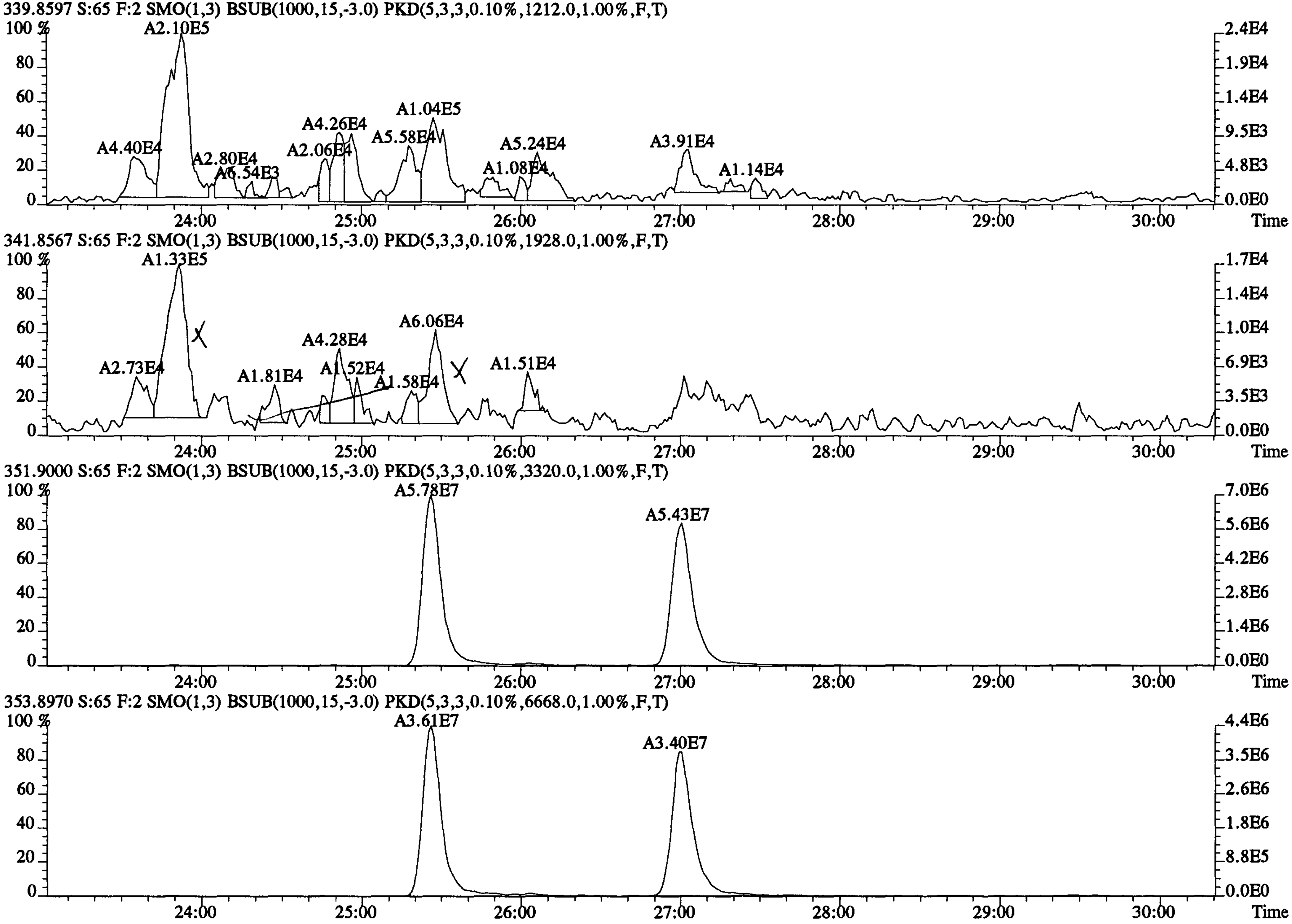
331.9368 S:65 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8936.0,1.00%,F,T)



333.9339 S:65 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1872.0,1.00%,F,T)



File:14OC104D5 #1-470 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES

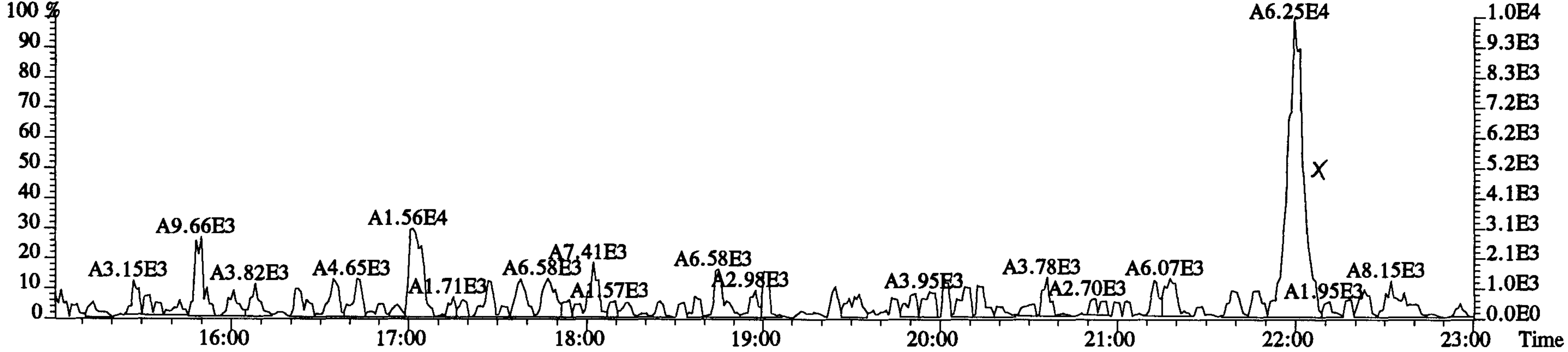

339.8597 S:65 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1212.0,1.00%,F,T)

341.8567 S:65 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1928.0,1.00%,F,T)

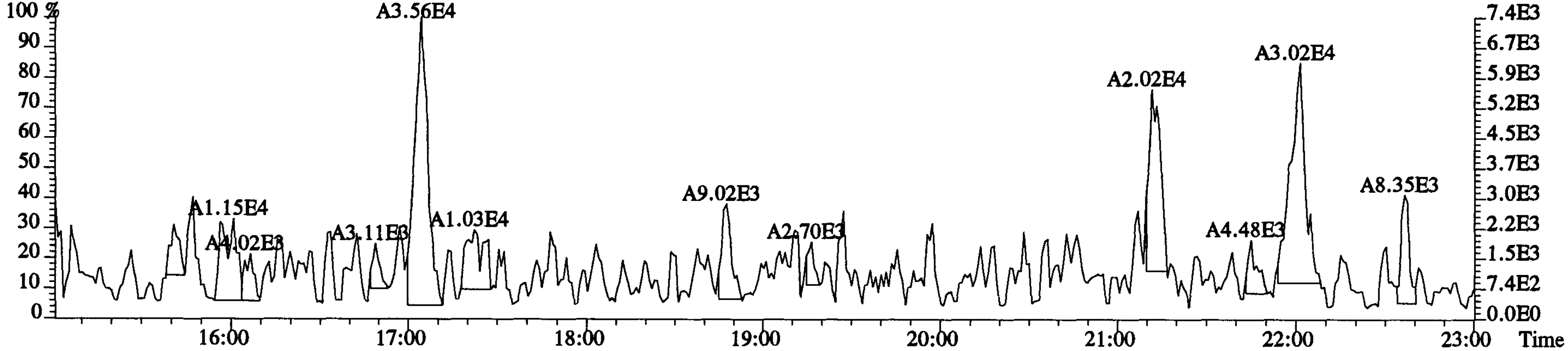
351.9000 S:65 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3320.0,1.00%,F,T)

353.8970 S:65 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6668.0,1.00%,F,T)

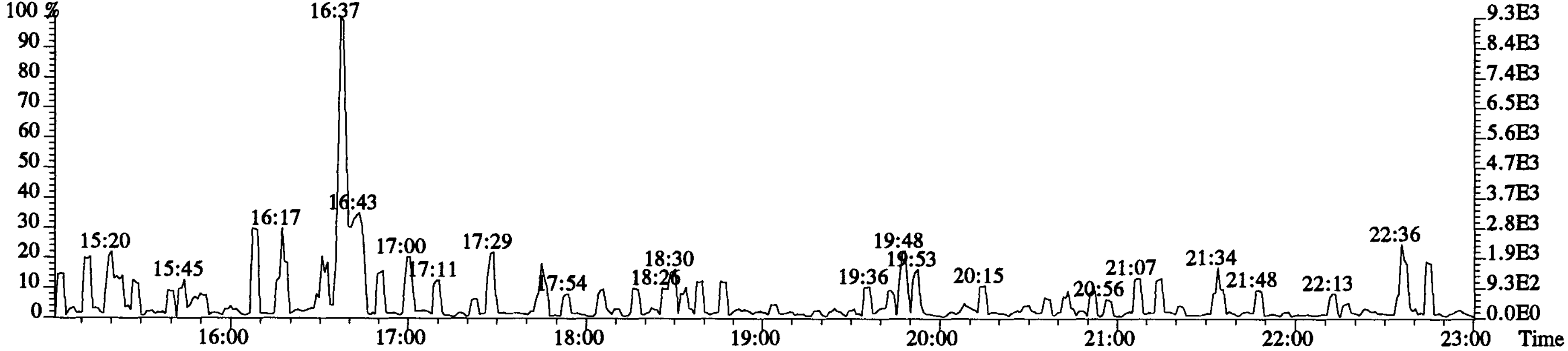
File:14OC104D5 #1-530 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES
339.8597 S:65 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,212.0,1.00%,F,T)



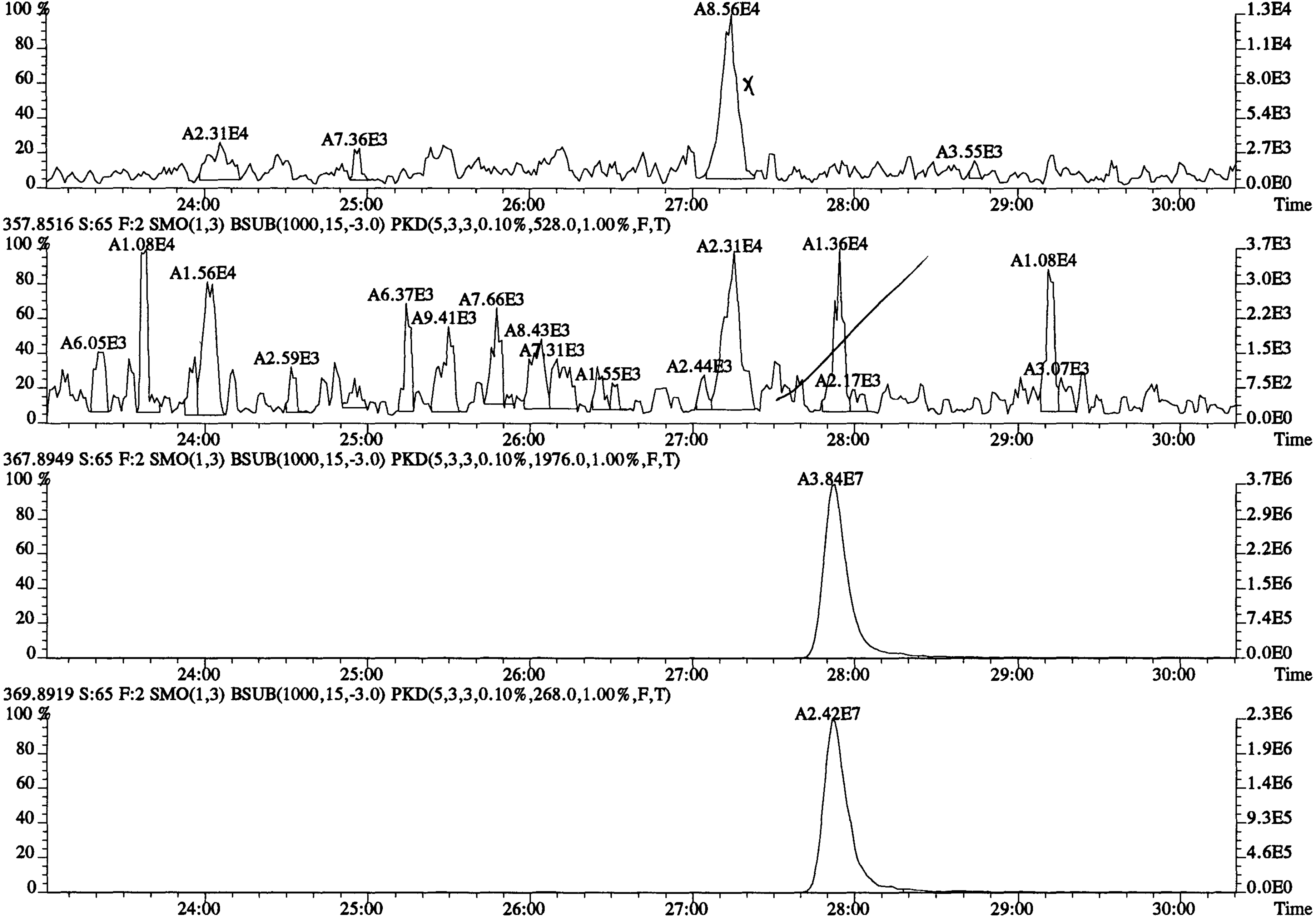
341.8567 S:65 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1316.0,1.00%,F,T)



409.7974 S:65 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,196.0,1.00%,F,T)



File:14OC104D5 #1-470 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES



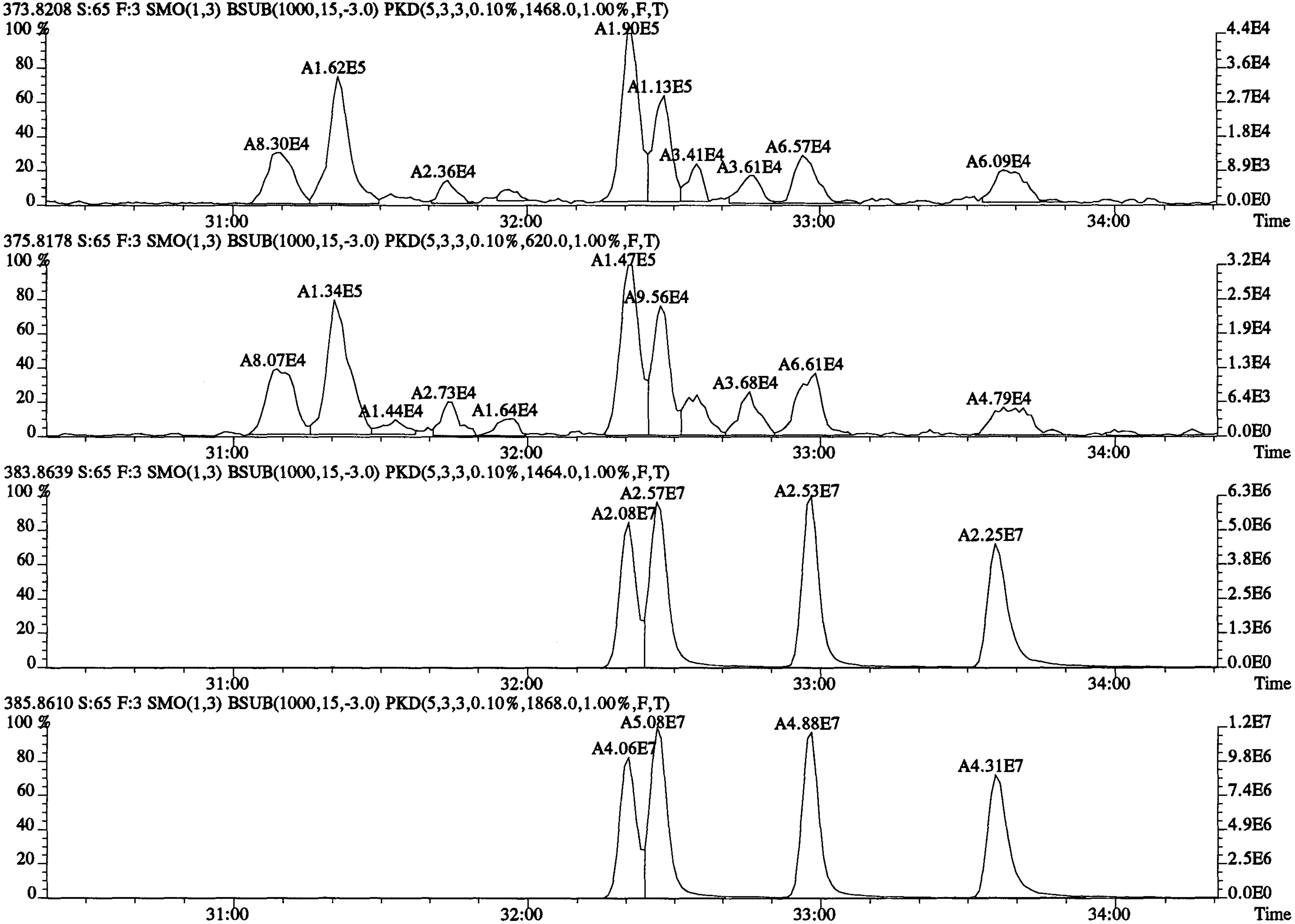
355.8546 S:65 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1436.0,1.00%,F,T)

357.8516 S:65 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,528.0,1.00%,F,T)

367.8949 S:65 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1976.0,1.00%,F,T)

369.8919 S:65 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,268.0,1.00%,F,T)

File:14OC104D5 #1-287 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES

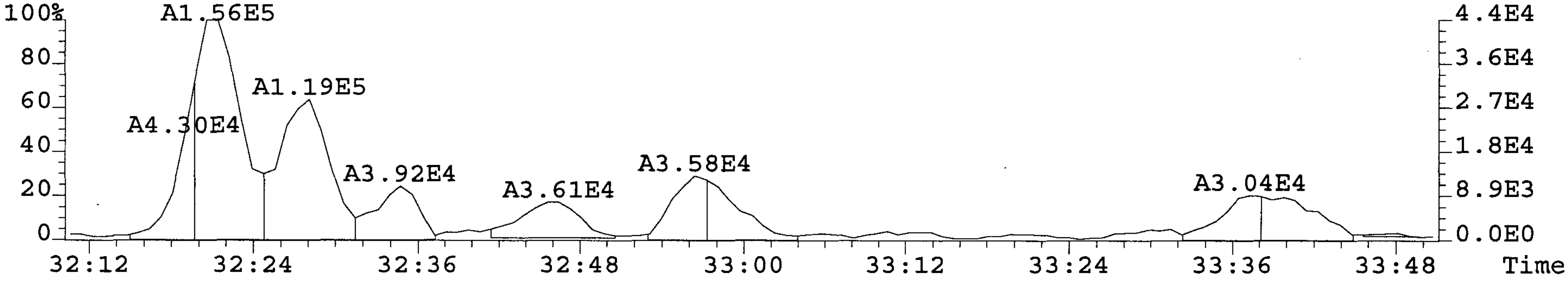

373.8208 S:65 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1468.0,1.00%,F,T)

375.8178 S:65 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,620.0,1.00%,F,T)

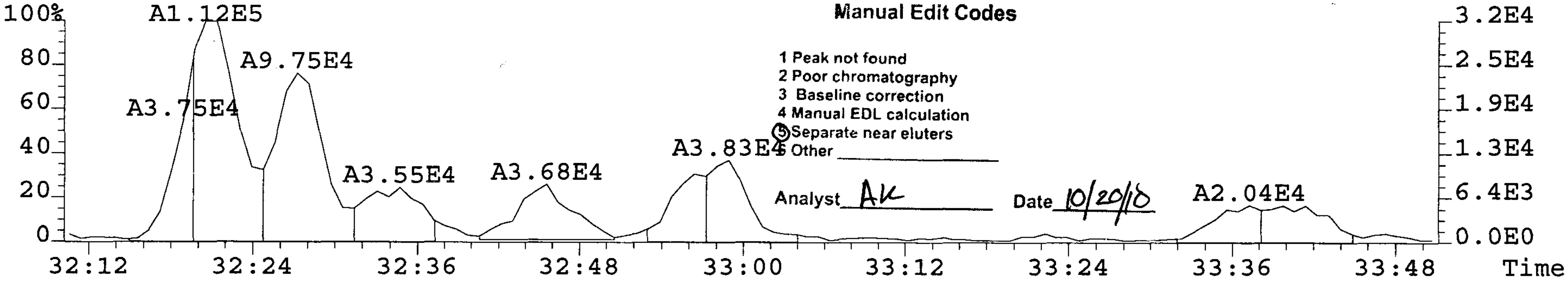
383.8639 S:65 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1464.0,1.00%,F,T)

385.8610 S:65 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1868.0,1.00%,F,T)

File:14OC104D5 #1-287 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
373.8208 S:65 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1468.0,1.00%,F,T) Exp:DIOXINRES >
Sample Text:L8AK8-1-AA :G0J120429-2



File:14OC104D5 #1-287 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
375.8178 S:65 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,620.0,1.00%,F,T) Exp:DIOXINRES N>
Sample Text:L8AK8-1-AA :G0J120429-2

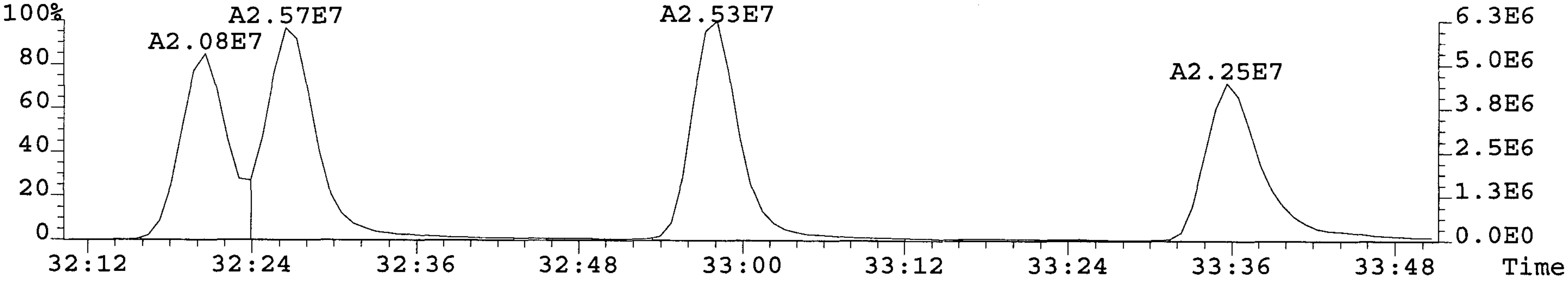


Manual Edit Codes

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

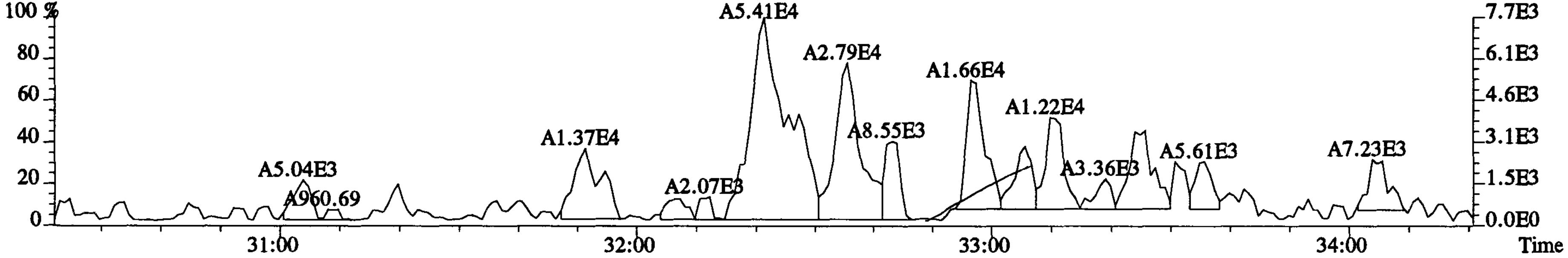
Analyst AK Date 10/20/10

File:14OC104D5 #1-287 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
383.8639 S:65 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1464.0,1.00%,F,T) Exp:DIOXINRES >
Sample Text:L8AK8-1-AA :G0J120429-2

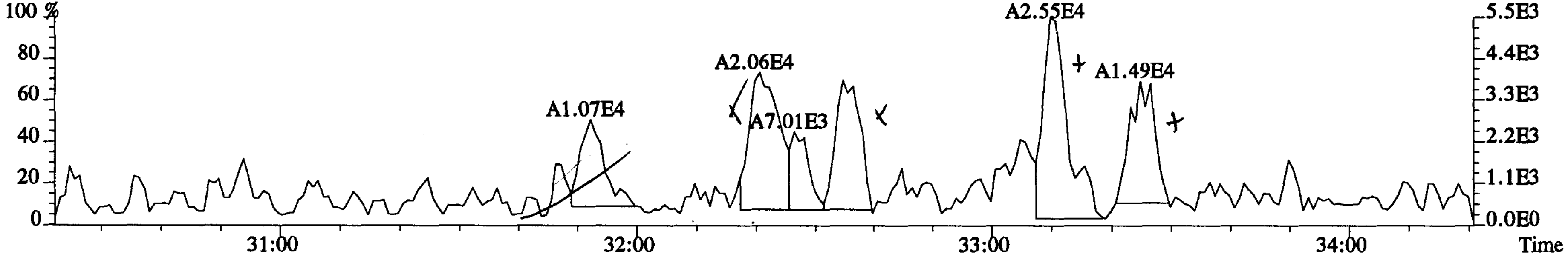


File:14OC104D5 #1-287 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES

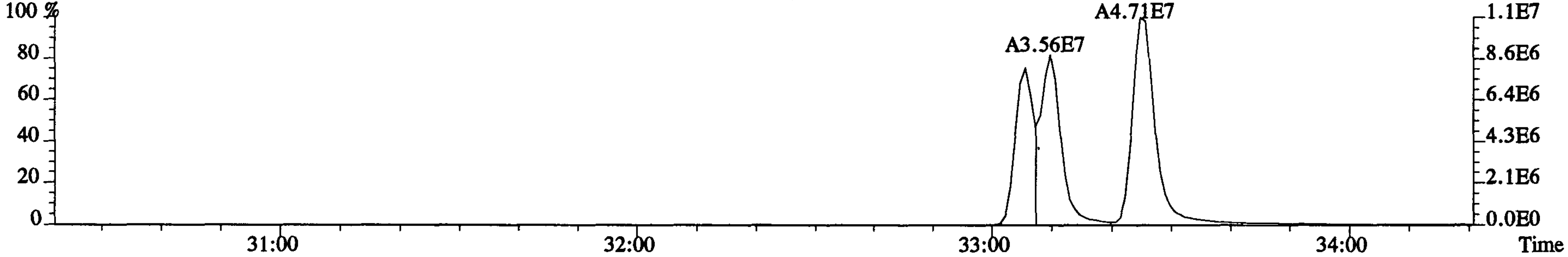
389.8157 S:65 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,668.0,1.00%,F,T)



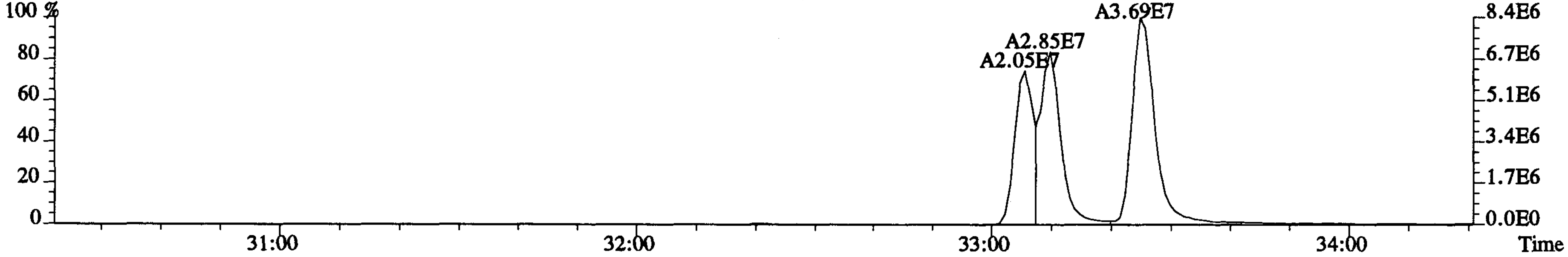
391.8127 S:65 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,956.0,1.00%,F,T)



401.8559 S:65 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,220.0,1.00%,F,T)

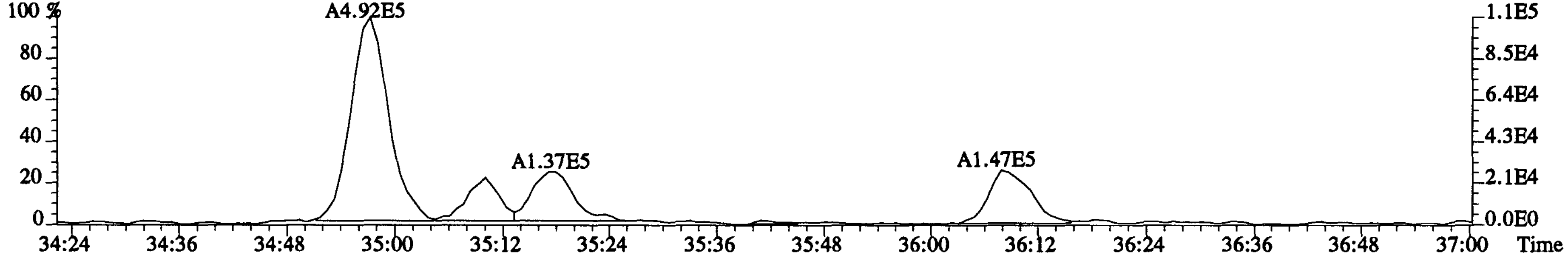


403.8529 S:65 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1508.0,1.00%,F,T)

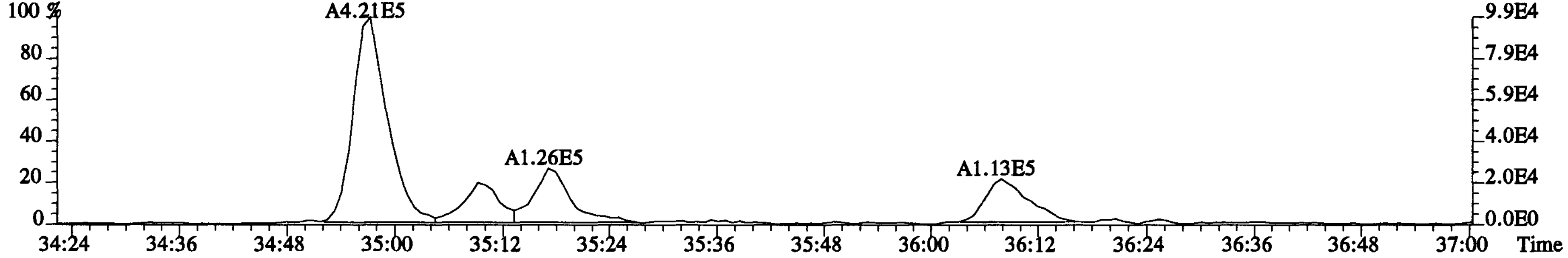


File:14OC104D5 #1-200 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES

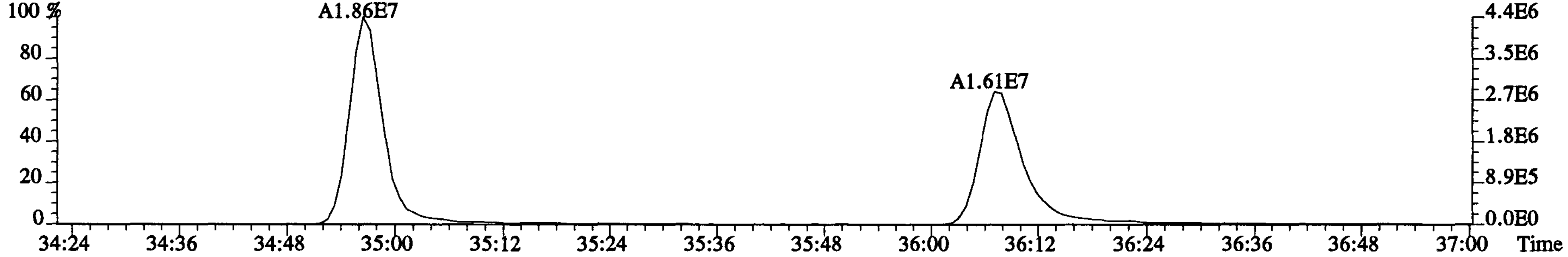
407.7818 S:65 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1736.0,1.00%,F,T)



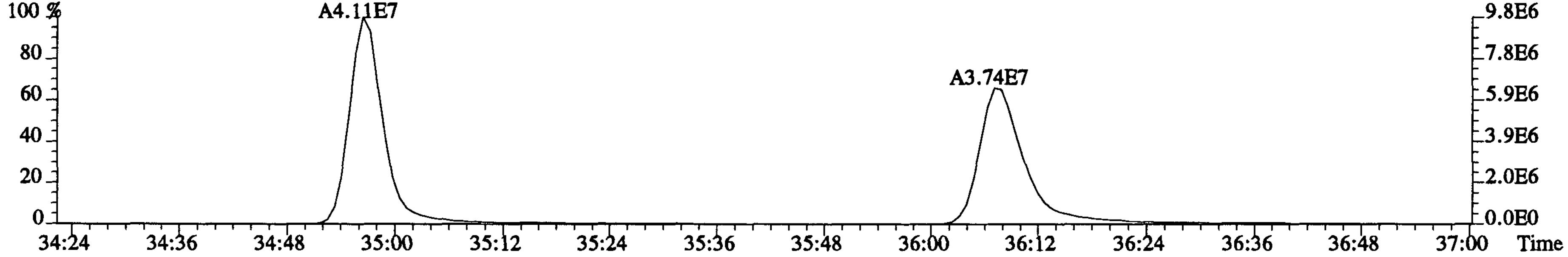
409.7789 S:65 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1320.0,1.00%,F,T)



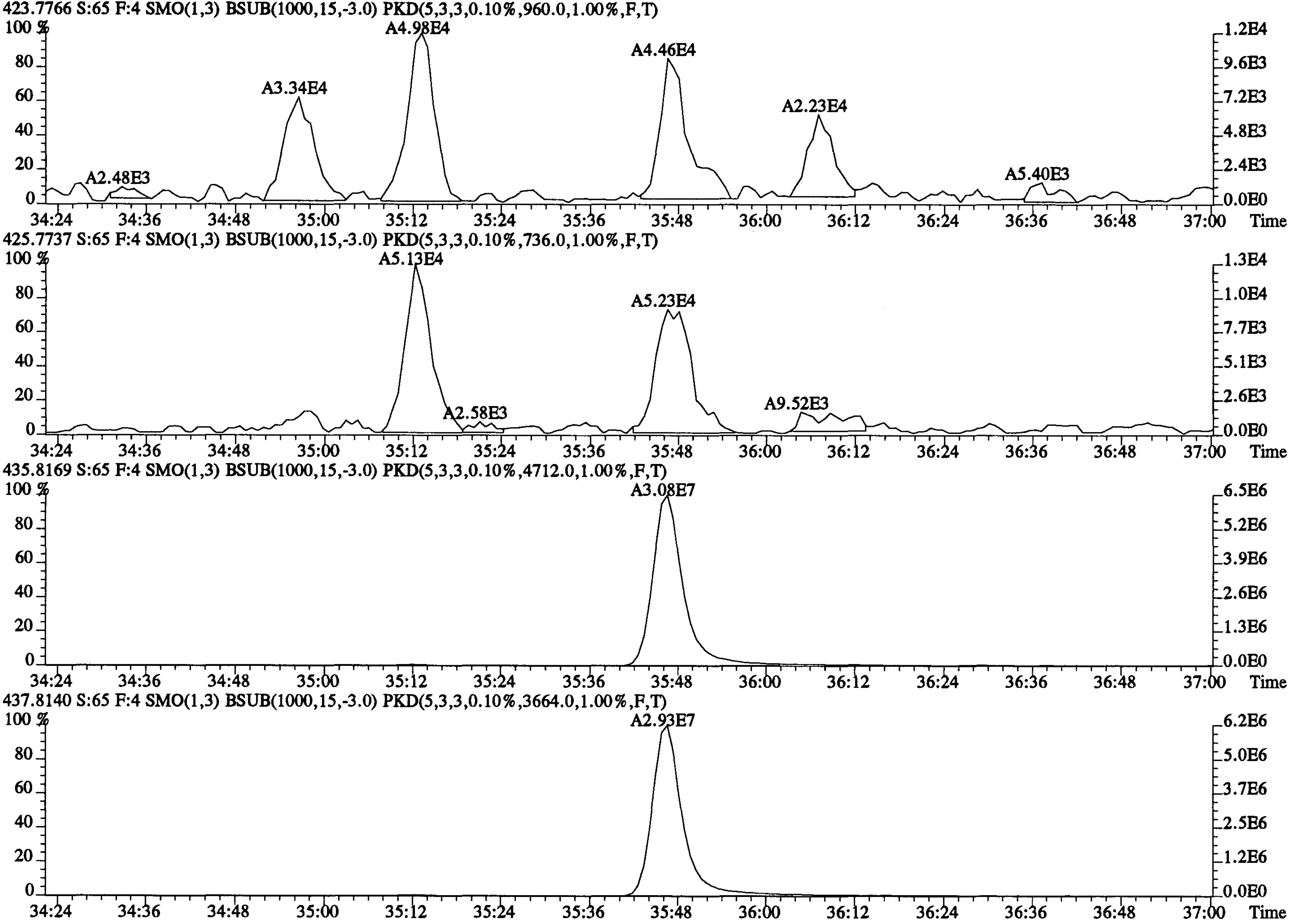
417.8253 S:65 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8340.0,1.00%,F,T)



419.8220 S:65 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16576.0,1.00%,F,T)

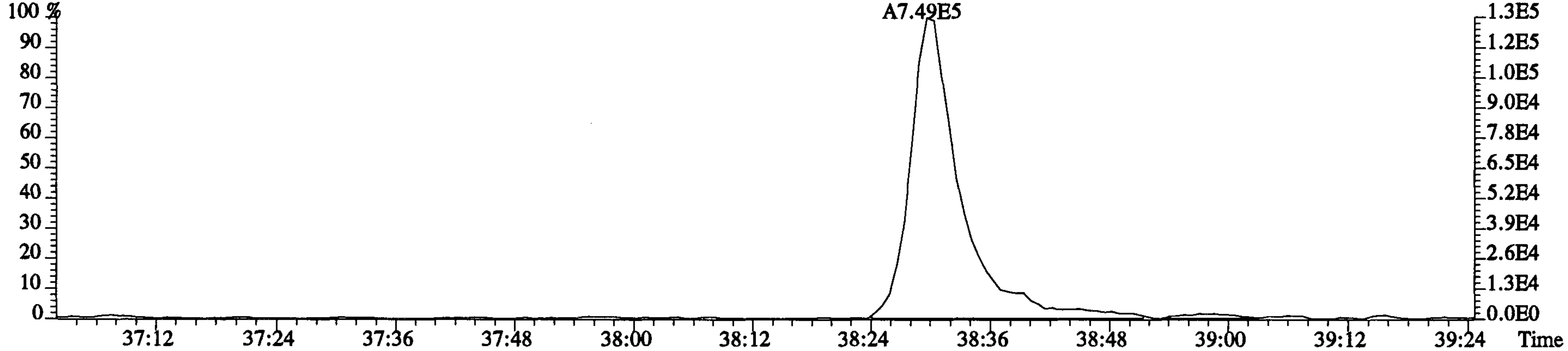


File:14OC104D5 #1-200 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES

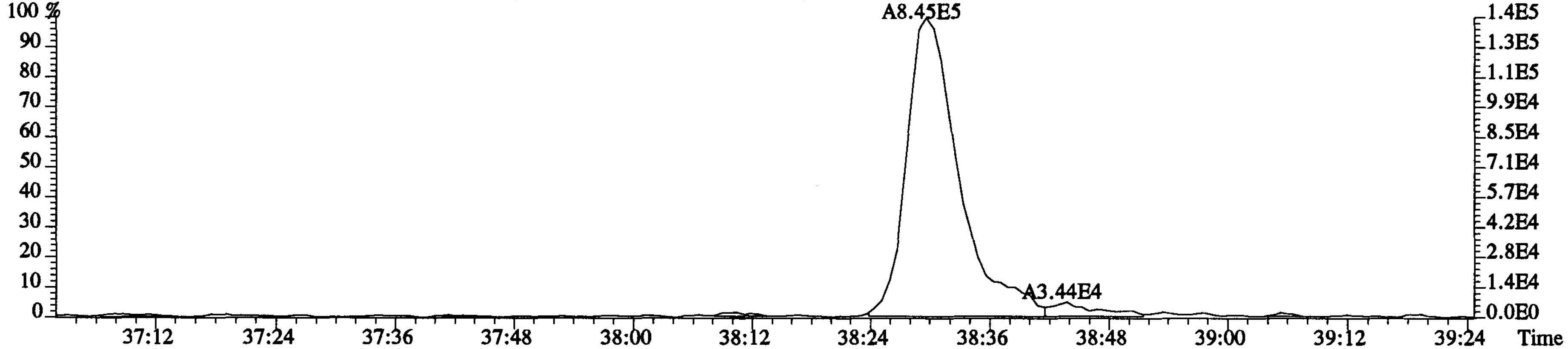


File:14OC104D5 #1-193 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES

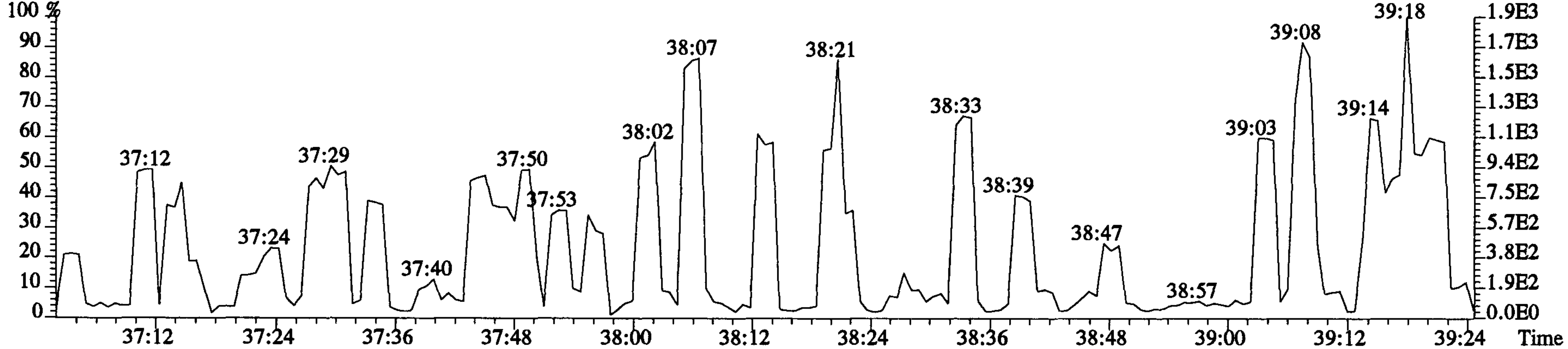
441.7428 S:65 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,996.0,1.00%,F,T)

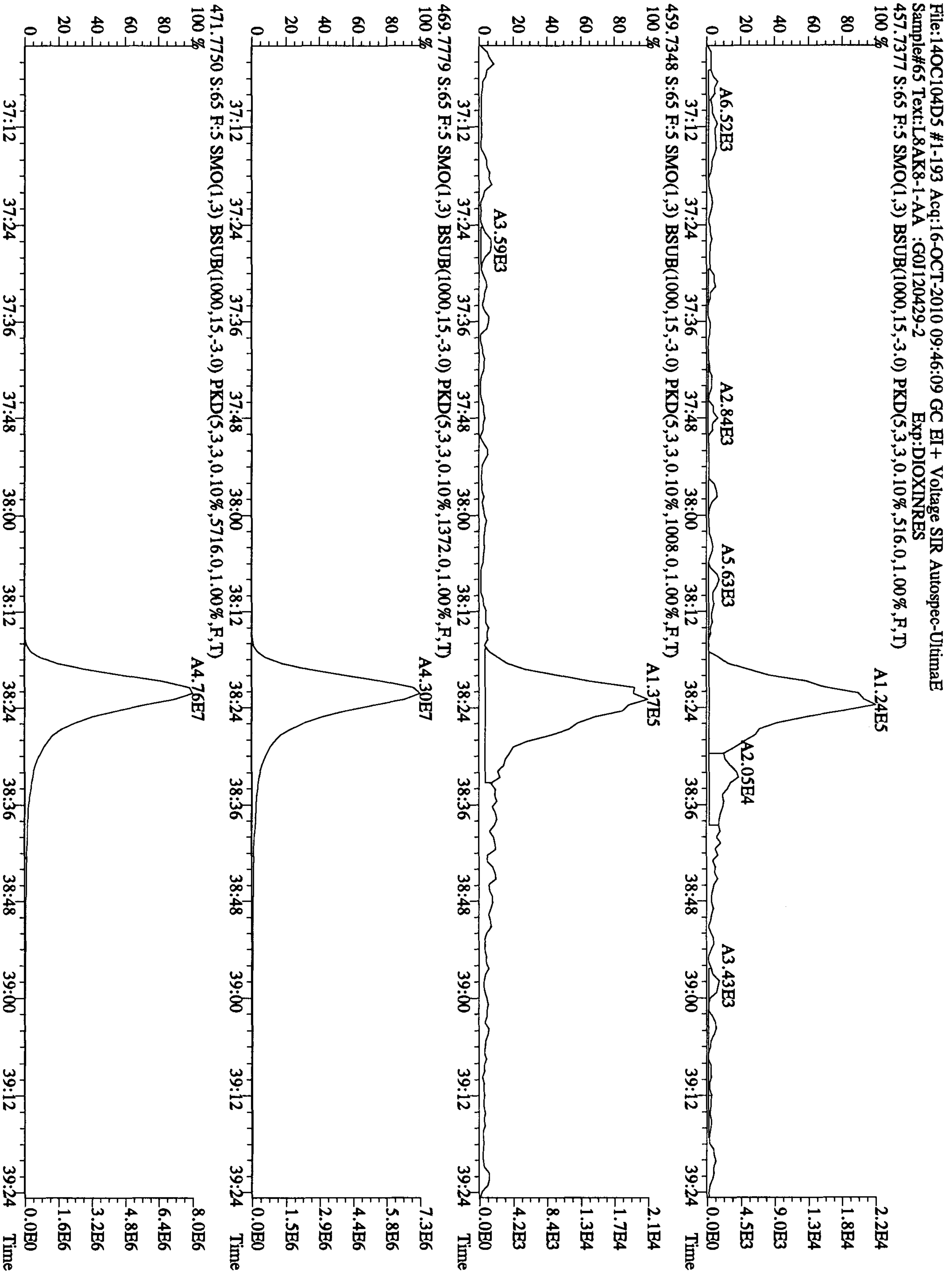


443.7399 S:65 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1084.0,1.00%,F,T)



513.6775 S:65 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,100.0,1.00%,F,T)





File:14OC104D5 #1-193 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES

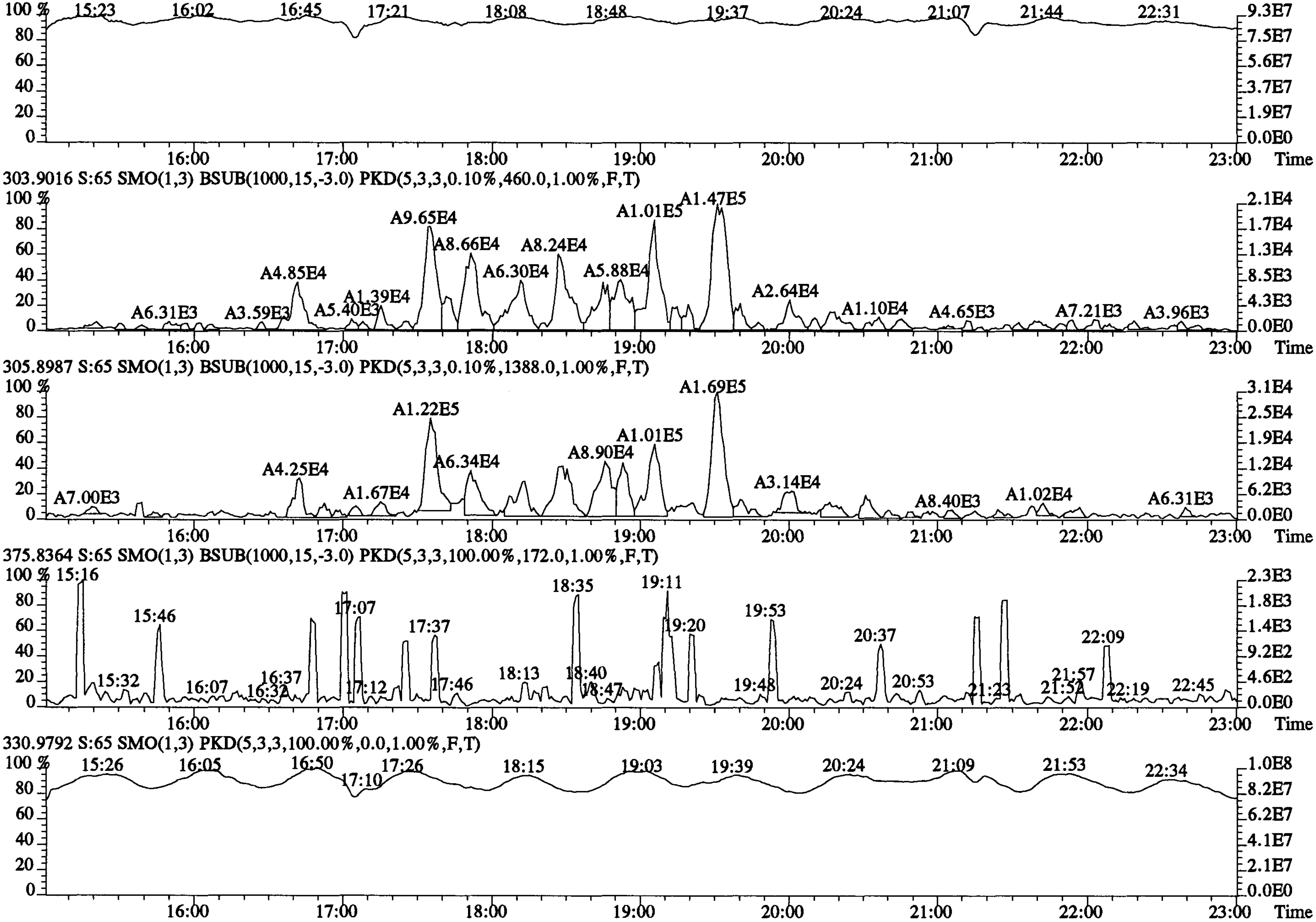
457.7377 S:65 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,516.0,1.00%,F,T)

459.7348 S:65 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1008.0,1.00%,F,T)

469.7779 S:65 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1372.0,1.00%,F,T)

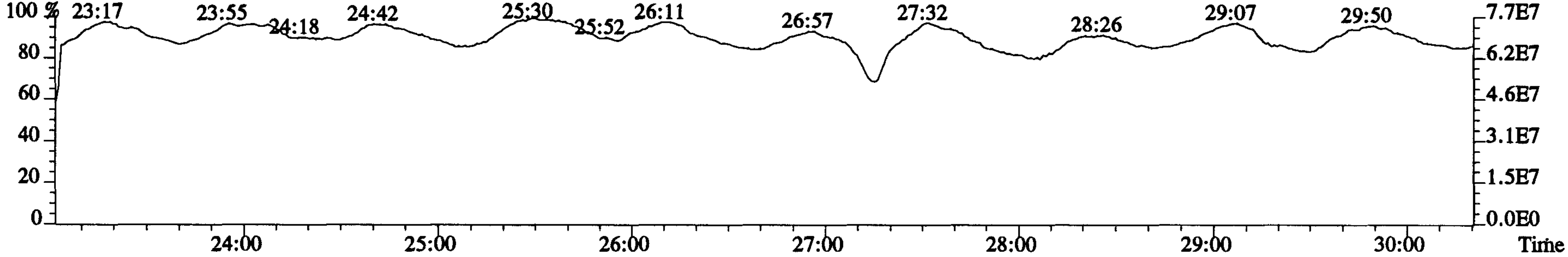
471.7750 S:65 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5716.0,1.00%,F,T)

File:14OC104D5 #1-530 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES

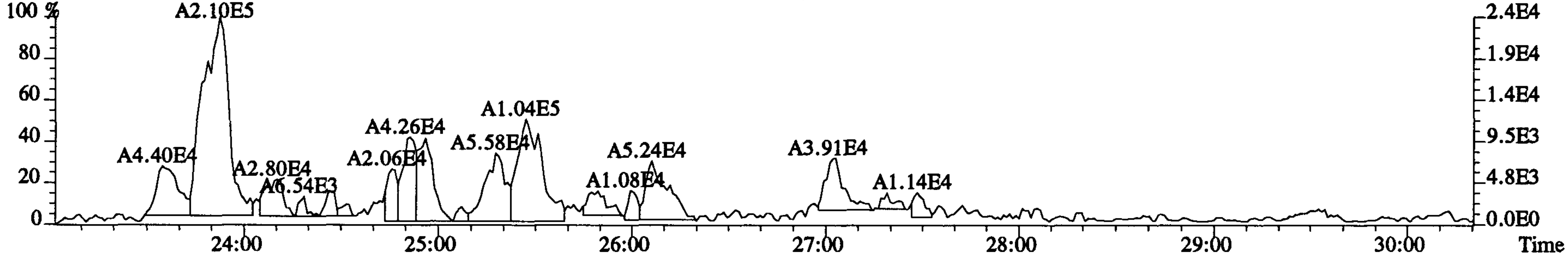


File:14OC104D5 #1-470 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES

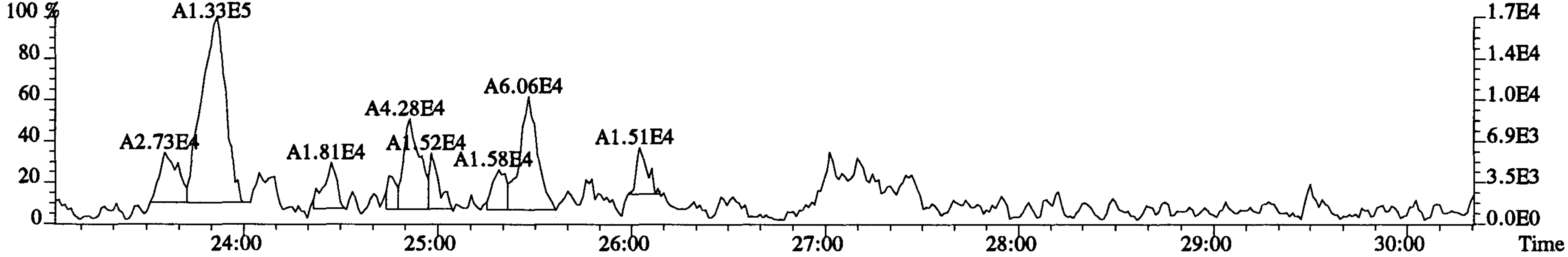
342.9792 S:65 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



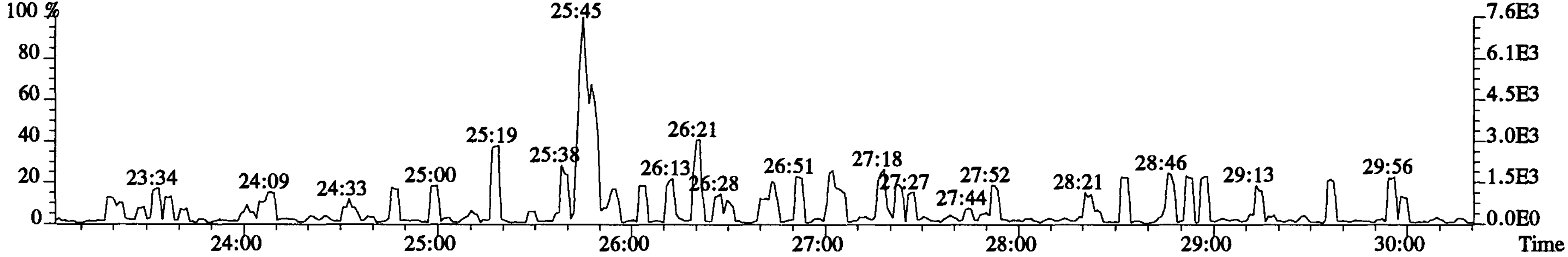
339.8597 S:65 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1212.0,1.00%,F,T)



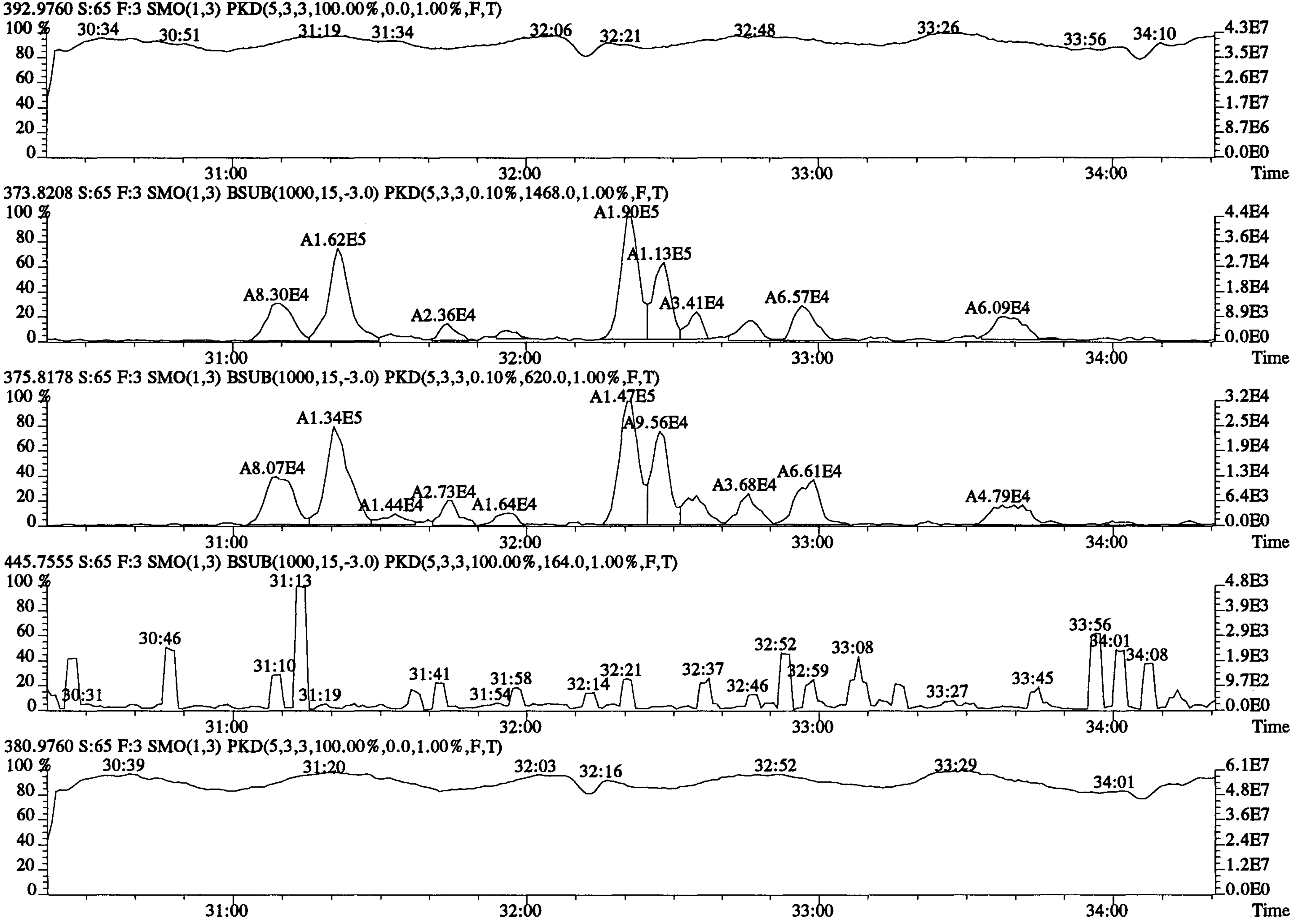
341.8567 S:65 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1928.0,1.00%,F,T)



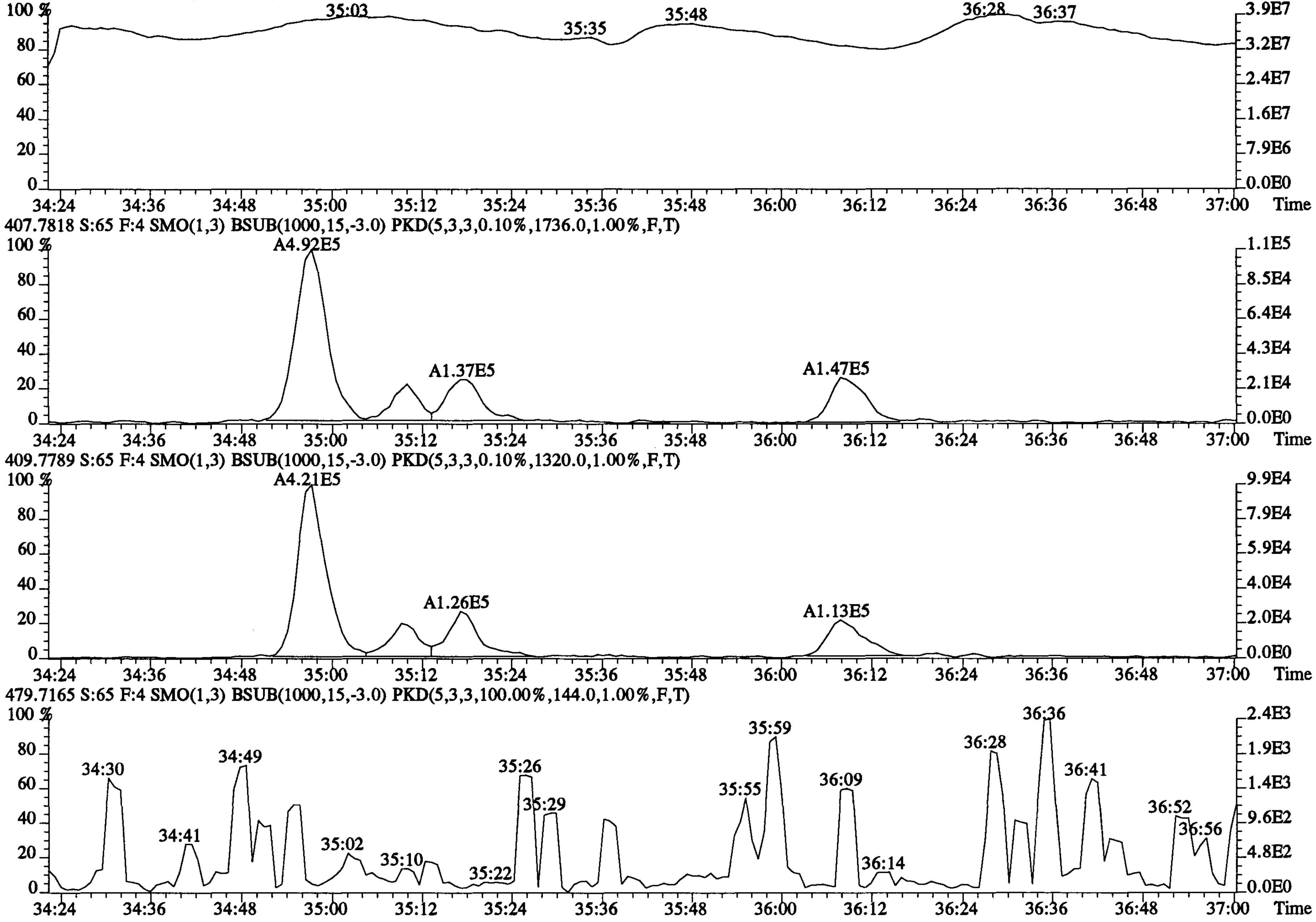
409.7974 S:65 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,156.0,1.00%,F,T)



File:14OC104D5 #1-287 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES



File:14OC104D5 #1-200 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES
430.9728 S:65 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

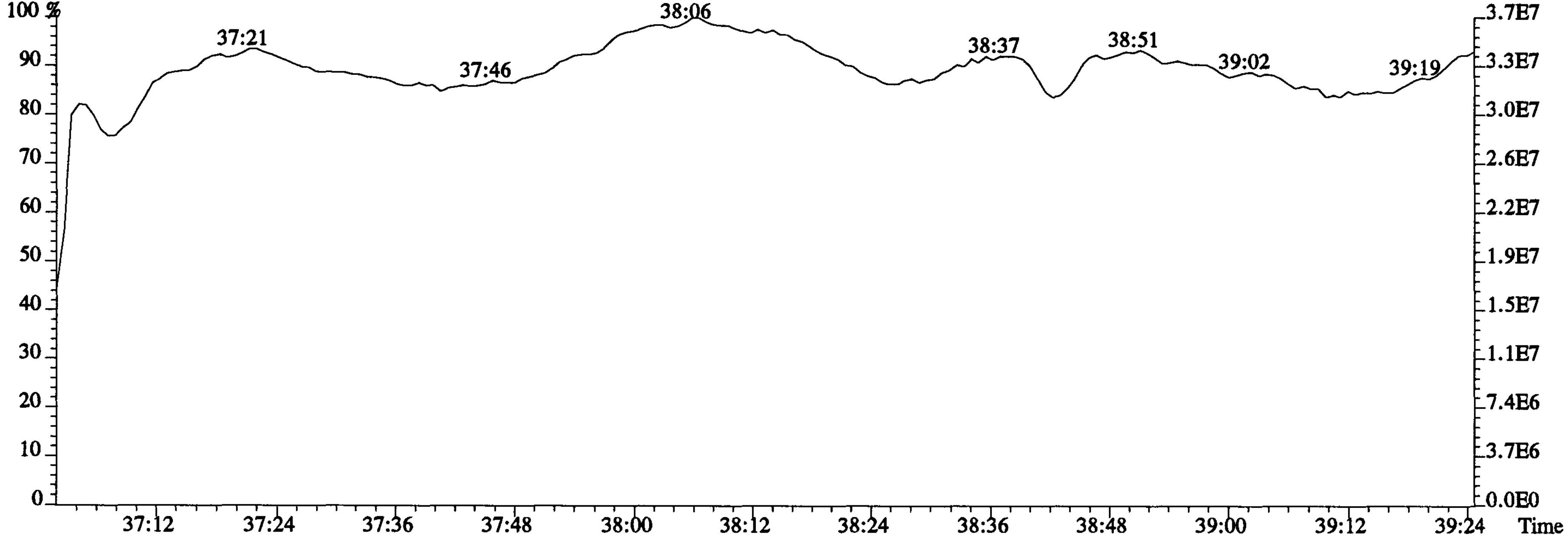


407.7818 S:65 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1736.0,1.00%,F,T)

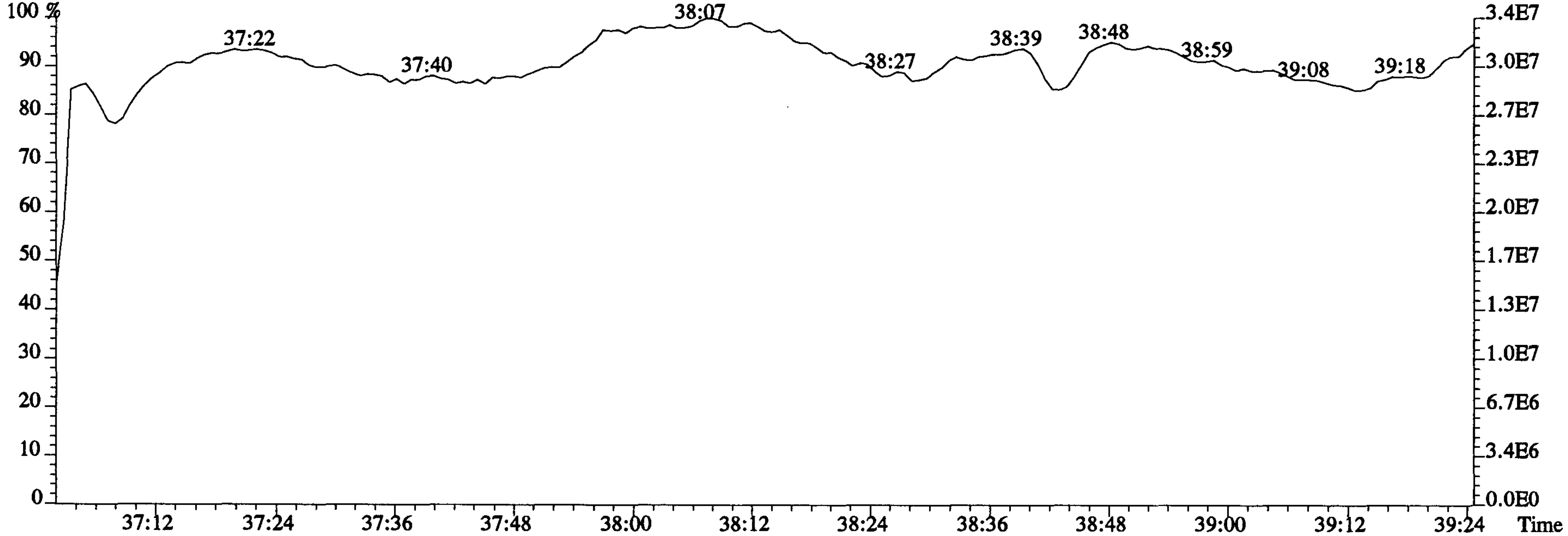
409.7789 S:65 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1320.0,1.00%,F,T)

479.7165 S:65 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,144.0,1.00%,F,T)

File:14OC104D5 #1-193 Acq:16-OCT-2010 09:46:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#65 Text:L8AK8-1-AA :G0J120429-2 Exp:DIOXINRES
454.9728 S:65 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:65 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L8ALT-1-AA Sample text: L8ALT-1-AA :G0J120429-5 RI
Run #8 Filename: 18OC104D5 S: 8 I: 1 Results: 18oc104d5to9
Acquired: 18-OCT-10 14:19:04 Processed: 18-OCT-10 15:43:23
Run: 18OC104D5 Analyte: TO9 Cal: TO90721104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.50 SAM

AK 10/20/10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	76894700	0.79 y	20:04	-	46.05	-	-	n
13C-2,3,7,8-TCDF	83107600	0.79 y	19:28	1.23	3516.67	3.81	87.9	n
2,3,7,8-TCDF	8445490	0.84 y	19:30	0.99	408.73 see DB225	4.28	-	n
Total TCDF	42390753	0.73 y	16:42	0.99	✓2051.54	4.28	-	n
13C-2,3,7,8-TCDD	64071900	0.79 y	20:17	0.91	3682.61	7.30	92.1	n
2,3,7,8-TCDD	124883	0.79 y	20:19	0.98	7.93 J	1.66	-	n
Total TCDD	2602847	0.53 n	16:43	0.98	~~165.23~~ 162.153 /	1.66	-	n
37Cl-2,3,7,8-TCDD	35367800	1.00 y	20:18	1.33	1665.08	0.12	104.1	n
13C-1,2,3,7,8-PeCDF	66834500	1.56 y	25:21	0.88	3968.58	7.39	99.2	n
1,2,3,7,8-PeCDF	5345220	1.53 y	25:23	1.08	✓297.14	13.51	-	n
2,3,4,7,8-PeCDF	2472570	1.47 y	26:58	1.05	✓141.53 ✓	13.91	-	n
Total F2 PeCDF	33482433	1.53 y	23:33	1.06	~~1886.22~~ + 1946.30	13.71	-	n
Total F1 PeCDF	2022948	0.78 n	16:38	1.06	~~114.10~~	1.87	-	n
13C-1,2,3,7,8-PeCDD	49623100	1.62 y	27:47	0.66	3906.26	4.02	97.7	n
1,2,3,7,8-PeCDD	202801	1.94 n	27:49	0.93	17.66 JQ /	6.31	-	n
Total PeCDD	1798104	1.28 n	23:59	0.93	~~156.61~~ 141.06	6.31	-	n
13C-1,2,3,7,8,9-HxCDD	70053100	1.30 y	33:24	-	59.17	-	-	n
13C-1,2,3,4,7,8-HxCDF	57005000	0.51 y	32:19	1.04	3115.43	2.29	77.9	n
1,2,3,4,7,8-HxCDF	7019260	1.15 y	32:20	1.22	✓404.63	7.59	-	y
1,2,3,6,7,8-HxCDF	8060220	1.15 y	32:26	1.28	✓441.30	7.21	-	n
2,3,4,6,7,8-HxCDF	1655244	1.16 y	32:57	1.23	94.17 J	7.49	-	y
1,2,3,7,8,9-HxCDF	1443205	1.13 y	33:36	1.10	92.22 ↓	8.42	-	y
Total HxCDF	51457767	1.11 y	31:06	1.21	✓2966.07	7.65	-	y
13C-1,2,3,6,7,8-HxCDD	56188100	1.28 y	33:09	0.83	3861.76	1.34	96.5	n
1,2,3,4,7,8-HxCDD	225247	1.15 y	33:06	1.04	15.46 J	1.50	-	y
1,2,3,6,7,8-HxCDD	444884	1.28 y	33:10	1.16	27.24	1.34	-	y
1,2,3,7,8,9-HxCDD	375262	1.25 y	33:25	1.18	22.61 ↓ ✓	1.31	-	y
Total HxCDD	2999489	0.49 n	31:21	1.13	~~188.71~~ 188.39	1.38	-	y
13C-1,2,3,4,6,7,8-HpCDF	58310500	0.44 y	34:56	0.91	3658.70	14.21	91.5	n
1,2,3,4,6,7,8-HpCDF	35102100	1.07 y	34:57	1.35	✓1789.26	11.67	-	n
1,2,3,4,7,8,9-HpCDF	12432830	1.08 y	36:07	1.09	✓779.99	14.37	-	n
Total HpCDF	66488850	1.07 y	34:57	1.22	✓3635.34	12.88	-	n
13C-1,2,3,4,6,7,8-HpCDD	53987800	1.07 y	35:46	0.83	3729.32	5.37	93.2	n
1,2,3,4,6,7,8-HpCDD	1490023	1.02 y	35:47	1.07	✓103.01	3.17	-	n
Total HpCDD	2410858	3.74 n	34:57	1.07	~~166.67~~ 163.65 ✓	3.17	-	n
13C-OCDD	91423200	0.90 y	38:21	0.62	8421.10	15.75	105.3	n
OCDF	62229400	0.88 y	38:29	1.37	✓3973.88	3.06	-	n

OCDD	1940900	0.86	y	38:22	1.20	141.61 J	5.08	-	n

```
 Run text: L8ALT-1-AA      Sample text: L8ALT-1-AA :G0J120429-5 RI
 Run #8  Filename: 18OC104D5   S: 8    I: 1      Results: 18OC104D5TO9
 Acquired: 18-OCT-10   14:19:04          Processed: 18-OCT-10  15:43:23
 Run: 18OC104D5       Analyte: TO9         Cal: TO90721104D5
  Factor 1:1600.000     Factor 2:20.000      Sample size: 0.50   SAM


                  Name       Resp   RA       RT  RRF         Conc          EDL       Rec  M

         13C-1,2,3,4-TCDD  76894728 0.79 y  20:04    -       46.046            -         -  n

         13C-2,3,7,8-TCDF  83107608 0.79 y  19:28 1.23     3516.666        3.815      87.9  n
             2,3,7,8-TCDF   8445499 0.84 y  19:30 0.99      408.728        4.278         -  n
               Total TCDF  42390767 0.73 y  16:42 0.99     2051.540        4.278         -  n

         13C-2,3,7,8-TCDD  64071890 0.79 y  20:17 0.91     3682.610        7.302      92.1  n
             2,3,7,8-TCDD    124883 0.79 y  20:19 0.98        7.927        1.664         -  n
               Total TCDD   2602845 0.53 n  16:43 0.98      165.227        1.664         -  n

        37Cl-2,3,7,8-TCDD  35367752 1.00 y  20:18 1.33     1665.074        0.123     104.1  n

      13C-1,2,3,7,8-PeCDF  66834532 1.56 y  25:21 0.88     3968.584        7.390      99.2  n
          1,2,3,7,8-PeCDF   5345216 1.53 y  25:23 1.08      297.136       13.509         -  n
          2,3,4,7,8-PeCDF   2472575 1.47 y  26:58 1.05      141.530       13.910         -  n
           Total F2 PeCDF  33482433 1.53 y  23:33 1.06     1886.215       13.707         -  n
           Total F1 PeCDF   2022951 0.78 n  16:38 1.06      114.099        1.872         -  n

      13C-1,2,3,7,8-PeCDD  49623072 1.62 y  27:47 0.66     3906.257        4.022      97.7  n
          1,2,3,7,8-PeCDD    202801 1.94 n  27:49 0.93       17.664        6.315         -  n
              Total PeCDD   1798104 1.28 n  23:59 0.93      156.615        6.315         -  n

   13C-1,2,3,7,8,9-HxCDD  70053052 1.30 y  33:24    -       59.167            -         -  n

   13C-1,2,3,4,7,8-HxCDF  57004922 0.51 y  32:19 1.04     3115.428        2.293      77.9  n
       1,2,3,4,7,8-HxCDF  11497981 1.11 y  32:20 1.22      662.818        7.593         -  n
       1,2,3,6,7,8-HxCDF   8060222 1.15 y  32:26 1.28      441.298        7.211         -  n
       2,3,4,6,7,8-HxCDF   4320024 1.09 y  32:55 1.23      245.767        7.493         -  n
       1,2,3,7,8,9-HxCDF   3023875 1.14 y  33:38 1.10      193.216        8.416         -  n
              Total HxCDF  51185869 1.11 y  31:06 1.21     2954.128        7.653         -  n

   13C-1,2,3,6,7,8-HxCDD  56188104 1.28 y  33:09 0.83     3861.762        1.336      96.5  n
       1,2,3,4,7,8-HxCDD    656471 1.29 y  33:10 1.04       45.058        1.498         -  n
       1,2,3,6,7,8-HxCDD    656471 1.29 y  33:10 1.16       40.191        1.336         -  n
       1,2,3,7,8,9-HxCDD    506429 1.17 y  33:25 1.18       30.508        1.315         -  n
              Total HxCDD   3004042 0.49 n  31:21 1.13      186.975        1.379         -  n

13C-1,2,3,4,6,7,8-HpCDF  58310434 0.44 y  34:56 0.91     3658.703       14.213      91.5  n
     1,2,3,4,6,7,8-HpCDF  35102098 1.07 y  34:57 1.35     1789.264       11.674         -  n
     1,2,3,4,7,8,9-HpCDF  12432837 1.08 y  36:07 1.09      779.990       14.368         -  n
              Total HpCDF  66488853 1.07 y  34:57 1.22     3635.341       12.882         -  n

13C-1,2,3,4,6,7,8-HpCDD  53987878 1.07 y  35:46 0.83     3729.329        5.372      93.2  n
     1,2,3,4,6,7,8-HpCDD   1490023 1.02 y  35:47 1.07      103.011        3.169         -  n
              Total HpCDD   2410858 3.74 n  34:57 1.07      166.672        3.169         -  n

                 13C-OCDD  91423232 0.90 y  38:21 0.62     8421.105       15.751     105.3  n
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OCDF   62229390 0.88 y  38:29 1.37       3973.875          3.062          -   n
OCDD    1940897 0.86 y  38:22 1.20        141.613          5.076          -   n
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     Totals Results   TestAmerica West Sacramento              Page 1 of 9

  Run Text: L8ALT-1-AA                   Sample text: L8ALT-1-AA :G0J120429-5 RI

  Name: Total TCDF                  F:1  Mass: 303.902 305.899   Mod? no   #Hom:16
  Run: 8  File: 18OC104D5    S:8   Acq:18-OCT-10 14:19:04
  Tables: Run: 18OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 18OC104D

    Amount:   1025.770 of which    204.364 named and    821.406  unnamed
      Conc:   2051.540 of which    408.728 named and   1642.812  unnamed


 Name                        #   R.T.  Ratio      Conc.        Area     S/N >? Mod?

                             1  16:42  0.731 y    76.603      668380    89.715   y  n
                                                              914466    51.980   y  n

                             2  17:04  0.771 y    22.031      198191    23.389   y  n
                                                              257036    12.997   y  n

                             3  17:15  0.775 y    24.122      217554    26.983   y  n
                                                              280885    14.084   y  n

                             4  17:34  0.782 y   364.373     3303169   362.911   y  n
                                                             4225835   196.073   y  n

                             5  17:51  0.757 y   144.875     1290102   123.203   y  n
                                                             1703428    69.116   y  n

                             6  18:11  0.727 y   117.666     1023349    79.125   y  n
                                                             1407969    39.540   y  n

                             7  18:27  0.748 y   174.799     1545032   169.719   y  n
                                                             2066830    92.670   y  n

                             8  18:45  0.737 y   204.346     1790938   161.469   y  n
                                                             2431447    91.992   y  n

                             9  18:52  0.786 y   133.103     1210474   126.632   y  n
                                                             1539811    72.483   y  n

                            10 19:04  0.754 y   219.450     1949927   214.909   y  n
                                                             2584553   120.405   y  n

                            11 19:17  0.707 y    39.926      341688    32.934   y  n
                                                              483302    14.506   y  n

 2,3,7,8-TCDF               12 19:30  0.840 y   408.728     3856225   353.459   y  n
                                                             4589275   178.764   y  n

                            13 19:59  0.942 n    47.753      524942    54.164   y  n
                                                              557462    23.191   y  n

                            14 20:16  0.760 y    32.497      289933    20.742   y  n
                                                              381546    12.109   y  n

                            15 20:32  1.024 n    14.263      170455    17.025   y  n
                                                              166506     7.551   y  n
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16 21:38  0.730 y   27.005      235395   22.339   y  n
                                322604   13.847   y  n
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     Totals Results   TestAmerica West Sacramento               Page 2 of 9

  Run Text: L8ALT-1-AA                 Sample text: L8ALT-1-AA :G0J120429-5 RI

  Name: Total TCDD                 F:1  Mass: 319.897 321.894   Mod? no   #Hom:18
  Run: 8  File: 18OC104D5    S:8   Acq:18-OCT-10 14:19:04
  Tables: Run: 18OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 18OC104D

    Amount:     82.613 of which      3.964 named and     78.650  unnamed
      Conc:    165.227 of which      7.927 named and    157.299  unnamed


Name                        #   R.T.  Ratio       Conc.        Area      S/N >? Mod?

                            1  16:43  0.526 n     0.574        3931     1.973  n  n
                                                               7473     2.126  n  n

                            2  17:03  1.442 n     0.568        7298     3.053  y  n
                                                               5060     1.339  n  n

                            3  17:42  0.749 y    18.200      122750    37.580  y  n
                                                             163951    33.553  y  n

                            4  18:04  0.769 y    54.918      376155   106.642  y  n
                                                             488971   109.711  y  n

                            5  18:20  0.936 n     3.733       31107     8.683  y  n
                                                              33223     6.951  y  n

                            6  18:59  0.787 y    22.701      157445    40.447  y  n
                                                             200175    37.644  y  n

                            7  19:10  0.645 n     4.625       31698    12.332  y  n
                                                              49131    11.266  y  n

                            8  19:16  1.275 n     5.308       60248    19.117  y  n
                                                              47239    11.697  y  n

                            9  19:42  0.597 n     6.640       45504    12.013  y  n
                                                              76242    17.128  y  n

                           10  20:05  0.922 n     7.354       60318    13.625  y  n
                                                              65448    12.499  y  n

                           11  20:10  0.743 y    19.546      131224    33.718  y  n
                                                             176685    33.011  y  n

2,3,7,8-TCDD               12  20:19  0.785 y     7.927       54930    15.475  y  n
                                                              69953    18.763  y  n

                           13  20:32  0.816 y     3.568       25262     8.226  y  n
                                                              30948     7.441  y  n

                           14  20:43  0.817 y     5.961       42227     9.364  y  n
                                                              51678     8.994  y  n

                           15  20:60  0.692 y     1.669       10758     3.448  y  n
                                                              15536     3.703  y  n

                           16  21:10  0.643 n     0.727        4980     1.894  n  n
```

					7742	1.384	n	n
17	21:35	0.577	n	0.941	6447	2.647	n	n
					11182	2.860	n	n
18	22:58	2.528	n	0.267	6018	3.095	y	n
					2381	0.992	n	n

```
     Totals Results   TestAmerica West Sacramento               Page 3 of 9

  Run Text: L8ALT-1-AA               Sample text: L8ALT-1-AA :G0J120429-5 RI

  Name: Total F2 PeCDF           F:2  Mass: 339.860 341.857   Mod? no   #Hom:13
  Run: 8  File: 18OC104D5    S:8   Acq:18-OCT-10 14:19:04
  Tables: Run: 18OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 18OC104D

    Amount:    943.107 of which    219.333 named and    723.774  unnamed
      Conc:   1886.215 of which    438.666 named and   1447.549  unnamed


 Name                         #   R.T.  Ratio      Conc.        Area       S/N >? Mod?

                              1  23:33  1.534 y   93.597     1004680     20.020   y  n
                                                              654761     46.044   y  n

                              2  23:47  1.495 y  536.460     5698764     78.194   y  n
                                                             3812527    190.247   y  n

                              3  24:03  1.300 n   58.940      635193     10.711   y  n
                                                              488489     28.834   y  n

                              4  24:23  1.287 n   65.712      708172     11.161   y  n
                                                              550124     27.850   y  n

                              5  24:50  1.404 y  243.326     2519660     28.476   y  n
                                                             1794448     76.567   y  n

                              6  25:13  1.483 y   93.645      991654     18.138   y  n
                                                              668644     44.071   y  n

 1,2,3,7,8-PeCDF              7  25:23  1.533 y  297.136     3234576     50.743   y  n
                                                             2110640    125.133   y  n

                              8  25:45  1.133 n   45.687      492363      6.982   y  n  D
                                                              434710     22.212   y  n

                              9  26:02  1.409 y  167.771     1739637     19.913   y  n
                                                             1234895     46.715   y  n

 2,3,4,7,8-PeCDF             10  26:58  1.468 y  141.530     1470762     20.185   y  n
                                                             1001813     48.797   y  n

                             11  27:22  1.254 n   76.713      826726      8.647   y  n
                                                              659020     24.384   y  n

                             12  28:00  1.253 n   29.220      314901      4.405   y  n
                                                              251293     12.535   y  n

                             13  29:22  1.545 y   36.478      392604      4.010   y  n
                                                              254141      9.098   y  n


     Totals Results   TestAmerica West Sacramento               Page 4 of 9

  Run Text: L8ALT-1-AA               Sample text: L8ALT-1-AA :G0J120429-5 RI

  Name: Total F1 PeCDF           F:1  Mass: 339.860 341.857   Mod? no   #Hom:14
  Run: 8  File: 18OC104D5    S:8   Acq:18-OCT-10 14:19:04
```

```
Tables: Run: 18OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 18OC104D╗

   Amount:      57.050 of which          * named and     57.050  unnamed
     Conc:     114.099 of which          * named and    114.099  unnamed

Name                       #   R.T.  Ratio       Conc.        Area       S/N >? Mod?

                           1  16:38  0.778 n     0.386        4163    17.908   y  n
                                                              5349     1.139   n  n

                           2  16:44  0.346 n     0.111        1201     3.869   y  n
                                                              3476     0.768   n  n

                           3  17:03  0.229 n     0.460        4962    19.037   y  n
                                                             21639     3.669   y  n

                           4  18:01  0.379 n     0.238        2568     8.242   y  n
                                                              6774     1.656   n  n

                           5  18:06  0.627 n     0.334        3597    11.016   y  n
                                                              5741     1.448   n  n

                           6  19:24  0.561 n     0.296        3194     6.777   y  n
                                                              5696     1.318   n  n

                           7  19:29  0.275 n     0.145        1565     5.995   y  n
                                                              5696     1.318   n  n

                           8  20:07  0.736 n     0.894        9630    24.296   y  n
                                                             13083     2.041   n  n

                           9  20:17  0.386 n     0.219        2357     6.141   y  n
                                                              6113     1.533   n  n

                          10  20:24  1.114 n     0.632        6809    20.353   y  n
                                                              6113     1.533   n  n

                          11  21:13  0.893 n     1.792       19309    39.495   y  n
                                                             21618     4.188   y  n

                          12  21:57  1.491 y   105.771     1122463  1958.0╗    y  n
                                                            752823    85.316   y  n

                          13  22:16  4.009 n     1.150       32061    49.377   y  n
                                                              7997     1.901   n  n

                          14  22:22  2.704 n     1.671       31412    61.106   y  n
                                                             11616     1.641   n  n
```

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     Totals Results   TestAmerica West Sacramento              Page 5 of 9

 Run Text: L8ALT-1-AA                Sample text: L8ALT-1-AA :G0J120429-5 RI

 Name: Total PeCDD              F:2  Mass: 355.855 357.852   Mod? no   #Hom:10
 Run: 8  File: 18OC104D5    S:8   Acq:18-OCT-10 14:19:04
 Tables: Run: 18OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 18OC104D┐

   Amount:     78.307 of which      8.832 named and     69.475  unnamed
     Conc:    156.615 of which     17.664 named and    138.951  unnamed


Name                       #   R.T.  Ratio       Conc.        Area     S/N >? Mod?

                           1  23:59  1.281 n    33.475      233609   22.249   y  n
                                                            182419   25.014   y  n

                           2  25:23  1.913 n    28.533      245722   21.183   y  n
                                                            128466   19.815   y  n

                           3  25:42  2.213 n     5.450       54293    4.818   y  n
                                                             24537    3.303   y  n

                           4  26:03  1.659 y    43.004      308050   23.282   y  n
                                                            185677   21.479   y  n

                           5  26:23  1.226 n     1.790       12495    1.556   n  n
                                                             10195    1.687   n  n

                           6  26:36  1.625 y     6.953       49420    4.090   y  n
                                                             30405    5.087   y  n

                           7  27:04  2.294 n    11.440      118144    5.940   y  n
                                                             51505    6.861   y  n

                           8  27:22  1.581 y     4.539       31924    3.761   y  n
                                                             20192    2.986   n  n

1,2,3,7,8-PeCDD            9  27:49  1.943 n    17.664      154510   13.622   y  n
                                                             79530   12.131   y  n

                          10 29:02  1.280 n     3.768       26295    2.771   n  n
                                                             20543    3.938   y  n
```

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     Totals Results   TestAmerica West Sacramento              Page 6 of 9

 Run Text: L8ALT-1-AA                Sample text: L8ALT-1-AA :G0J120429-5 RI

 Name: Total HxCDF              F:3  Mass: 373.821 375.818   Mod? no   #Hom:11
 Run: 8  File: 18OC104D5    S:8   Acq:18-OCT-10 14:19:04
 Tables: Run: 18OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 18OC104D┐

   Amount:   1477.064 of which    771.549 named and    705.515  unnamed
     Conc:   2954.128 of which   1543.099 named and   1411.029  unnamed


Name                       #   R.T.  Ratio       Conc.        Area     S/N >? Mod?

                           1  31:06  1.107 y  304.571     2753400   85.815   y  n
```

```
                                                          2488256  119.944   y  n

                              2  31:19  1.135 y  538.313    4924191  150.235   y  n
                                                          4340152  201.526   y  n

                              3  31:31  1.147 y   35.953     330541    8.922   y  n
                                                           288216   12.508   y  n

                              4  31:42  1.127 y   96.218     877475   28.300   y  n
                                                           778426   37.539   y  n

                              5  31:54  1.077 y   81.731     729263   25.003   y  n
                                                           677322   33.154   y  n

1,2,3,4,7,8-HxCDF             6  32:20  1.106 y  662.818    6038309  203.668   y  n
                                                          5459672  281.326   y  n

1,2,3,6,7,8-HxCDF             7  32:26  1.145 y  441.298    4303080  162.709   y  n
                                                          3757143  215.107   y  n

                              8  32:32  1.152 y  181.337    1670913   56.666   y  n
                                                          1449888   75.659   y  n

                              9  32:45  1.112 y  172.907    1566520   42.441   y  n
                                                          1409207   54.860   y  n

2,3,4,6,7,8-HxCDF            10  32:55  1.091 y  245.767    2253952   54.023   y  n
                                                          2066072   74.308   y  n

1,2,3,7,8,9-HxCDF            11  33:38  1.141 y  193.216    1611322   34.503   y  n
                                                          1412553   47.725   y  n
```

6A

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     Totals Results    TestAmerica West Sacramento               Page 6 of 9

 Run Text: L8ALT-1-AA                Sample text: L8ALT-1-AA :G0J120429-5 RI

 Name: Total HxCDF              F:3  Mass: 373.821 375.818   Mod? yes  #Hom:14
 Run: 8  File: 18OC104D5    S:8   Acq:18-OCT-10 14:19:04
 Tables: Run: 18OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 18oc104d╗

   Amount:    1483.03 of which     516.16 named and     966.88  unnamed
     Conc:    2966.07 of which    1032.31 named and    1933.75  unnamed


Name                        #   R.T.  Ratio       Conc.        Area     S/N >? Mod?

                            1  31:06  1.11  y   304.57      2753400     85.8   y  n
                                                            2488260    119.9   y  n

                            2  31:19  1.13  y   538.31      4924190    150.2   y  n
                                                            4340150    201.5   y  n

                            3  31:31  1.15  y    35.95       330540      8.9   y  n
                                                             288217     12.5   y  n

                            4  31:42  1.13  y    96.22       877474     28.3   y  n
                                                             778427     37.5   y  n

                            5  31:54  1.08  y    81.73       729263     25.0   y  n
                                                             677323     33.2   y  n

                            6  32:19  1.06  y   265.78      2358340    191.4   y  y
                                                            2215780    267.6   y  y

1,2,3,4,7,8-HxCDF           7  32:20  1.15  y   404.63      3747220    204.6   y  y
                                                            3272040    281.9   y  y

1,2,3,6,7,8-HxCDF           8  32:26  1.15  y   441.30      4303080    162.7   y  n
                                                            3757140    215.1   y  n

                            9  32:32  1.15  y   181.34      1670910     56.7   y  n
                                                            1449890     75.7   y  n

                           10 32:45  1.11  y   172.91      1566520     42.4   y  n
                                                            1409210     54.9   y  n

                           11 32:55  1.10  y   159.77      1442160     54.9   y  y
                                                            1307440     74.8   y  y

2,3,4,6,7,8-HxCDF          12 32:57  1.16  y    94.17       888107     42.9   y  y
                                                             767137     58.7   y  y

1,2,3,7,8,9-HxCDF          13 33:36  1.13  y    92.22       764164     32.1   y  y
                                                             679041     45.2   y  y

                           14 33:38  1.14  y    97.17       892168     35.1   y  y
                                                             780176     48.5   y  y
```

7A

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     Totals Results    TestAmerica West Sacramento             Page 7 of 9

  Run Text: L8ALT-1-AA                    Sample text: L8ALT-1-AA :G0J120429-5 RI

  Name: Total HxCDD               F:3  Mass: 389.816 391.813   Mod? yes  #Hom:9
  Run: 8  File: 18OC104D5    S:8   Acq:18-OCT-10 14:19:04
  Tables: Run: 18OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 18oc104d╗

    Amount:      94.36 of which      32.65 named and      61.70  unnamed
      Conc:     188.71 of which      65.30 named and     123.41  unnamed

 Name                        #   R.T.  Ratio       Conc.        Area      S/N >? Mod?

                             1  31:21  0.49  n      0.20        1778       0.6   n  n
                                                                3611       1.4   n  n

                             2  31:26  0.29  n      0.12        1034       0.4   n  n
                                                                3611       1.4   n  n

                             3  31:49  1.27  y     15.31      135522      40.8   y  n
                                                              106909      19.7   y  n

                             4  32:21  1.18  y     53.11      456044     139.2   y  n
                                                              384866      92.2   y  n

                             5  32:34  1.14  y     47.54      401438     132.1   y  n
                                                              351285      74.9   y  n

 1,2,3,4,7,8-HxCDD           6  33:06  1.15  y     15.46      120316      44.4   y  y
                                                              104931      26.4   y  y

 1,2,3,6,7,8-HxCDD           7  33:10  1.28  y     27.24      250153      90.8   y  y
                                                              194731      48.3   y  y

                             8  33:23  0.37  n      7.13       62528      50.9   y  y
                                                              167062      49.0   y  y

 1,2,3,7,8,9-HxCDD           9  33:25  1.25  y     22.61      208200      73.0   y  y
                                                              167062      49.0   y  y
```

See 7A

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     Totals Results   TestAmerica West Sacramento               Page 7 of 9

 Run Text: L8ALT-1-AA                   Sample text: L8ALT-1-AA :G0J120429-5 RI

 Name: Total HxCDD                F:3  Mass: 389.816 391.813   Mod? no   #Hom:7
 Run: 8  File: 18OC104D5    S:8   Acq:18-OCT-10 14:19:04
 Tables: Run: 18OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 18OC104D╗

   Amount:     93.488 of which     35.350 named and     58.138  unnamed
     Conc:    186.975 of which     70.699 named and    116.276  unnamed


Name                        #   R.T.  Ratio      Conc.        Area      S/N >? Mod?

                            1  31:21  0.492 n    0.203        1778    0.595   n  n
                                                              3611    1.391   n  n

                            2  31:26  0.286 n    0.118        1034    0.424   n  n
                                                              3611    1.391   n  n

                            3  31:49  1.268 y   15.311      135522   40.811   y  n
                                                            106909   19.744   y  n

                            4  32:21  1.185 y   53.107      456044  139.152   y  n
                                                            384865   92.220   y  n

                            5  32:34  1.143 y   47.538      401438  132.116   y  n
                                                            351285   74.880   y  n

1,2,3,6,7,8-HxCDD           6  33:10  1.288 y   40.191      369545   90.531   y  n
                                                            286926   47.433   y  n

1,2,3,7,8,9-HxCDD           7  33:25  1.166 y   30.508      272658   72.729   y  n
                                                            233770   48.110   y  n

     Totals Results   TestAmerica West Sacramento               Page 8 of 9

 Run Text: L8ALT-1-AA                   Sample text: L8ALT-1-AA :G0J120429-5 RI

 Name: Total HpCDF                F:4  Mass: 407.782 409.779   Mod? no   #Hom:4
 Run: 8  File: 18OC104D5    S:8   Acq:18-OCT-10 14:19:04
 Tables: Run: 18OC104D5  Analyte: TO9     Cal: TO90721104D5  Results: 18OC104D╗

   Amount:   1817.670 of which   1284.627 named and    533.044  unnamed
     Conc:   3635.341 of which   2569.254 named and   1066.087  unnamed


Name                        #   R.T.  Ratio      Conc.        Area      S/N >? Mod?

1,2,3,4,6,7,8-HpCDF         1  34:57  1.067 y 1789.264    18120068  363.193   y  n
                                                          16982030  636.591   y  n

                            2  35:08  1.066 y  427.270     3918739   71.460   y  n
                                                           3677670  126.609   y  n

                            3  35:16  1.041 y  638.818     5793298  101.063   y  n
                                                           5564212  186.796   y  n

1,2,3,4,7,8,9-HpCDF         4  36:07  1.076 y  779.990     6443074  106.777   y  n
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                                                          5989764  182.564   y  n


          Totals Results   TestAmerica West Sacramento                Page 9 of 9

     Run Text: L8ALT-1-AA                 Sample text: L8ALT-1-AA :G0J120429-5 RI

     Name: Total HpCDD              F:4  Mass: 423.777 425.774   Mod? no   #Hom:4
     Run: 8  File: 18OC104D5    S:8   Acq:18-OCT-10 14:19:04
     Tables: Run: 18OC104D5  Analyte: TO9    Cal: TO90721104D5  Results: 18OC104D┐

       Amount:     83.336 of which     51.506 named and     31.831  unnamed
         Conc:    166.672 of which    103.011 named and     63.661  unnamed


    Name                     #   R.T.  Ratio      Conc.        Area      S/N >? Mod?

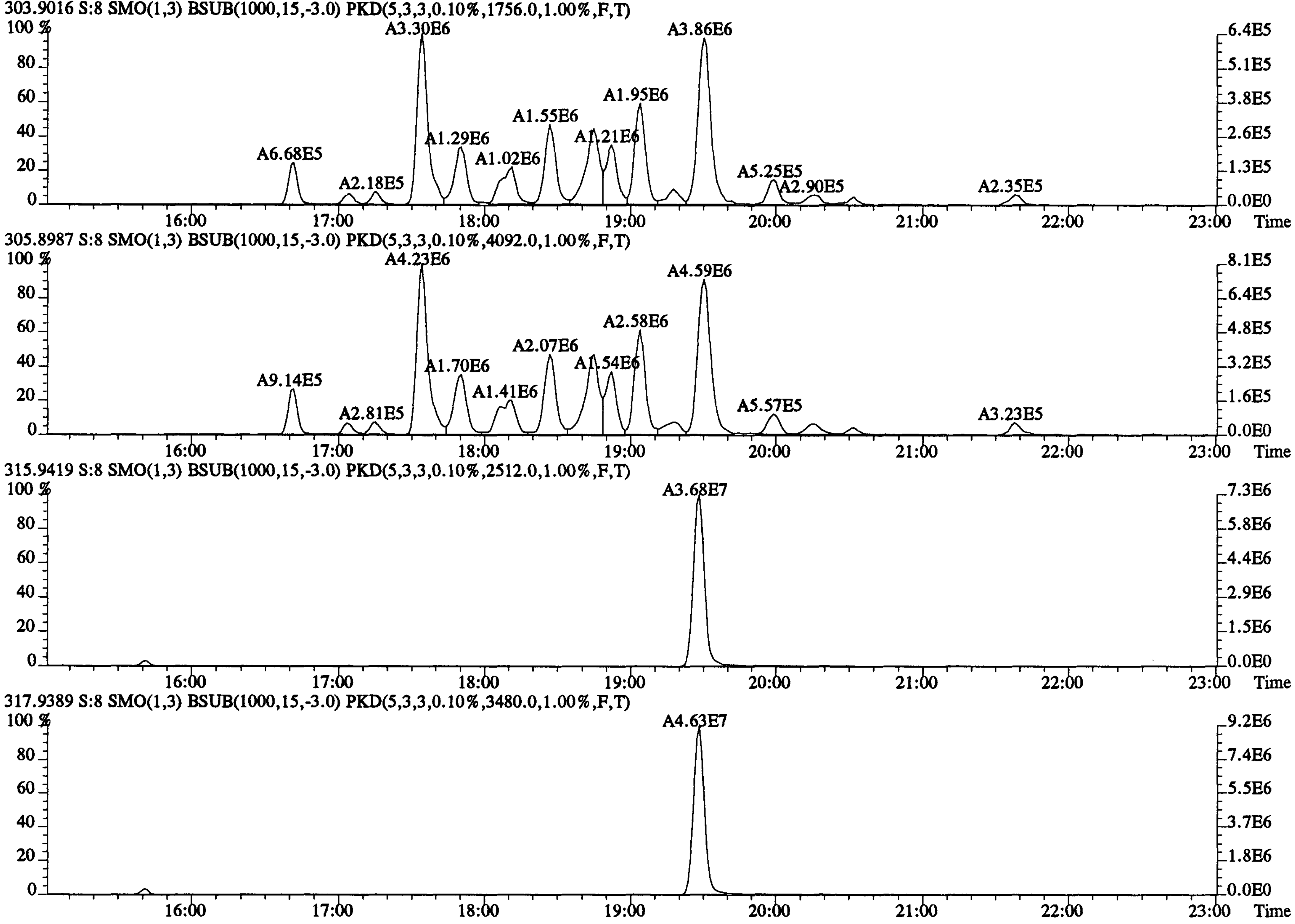
                             1  34:57  3.743 n    1.177       31250     4.905   y  n
                                                               8348     1.751   n  n

                             2  35:12  1.148 y   60.639      468856    58.408   y  n
                                                             408265    63.190   y  n

    1,2,3,4,6,7,8-HpCDD      3  35:47  1.024 y  103.011      753709    83.810   y  n
                                                             736314   108.049   y  n

                             4  36:06  1.748 n    1.845       22870     2.858   n  n
                                                              13081     2.342   n  n
```

File:18OC104D5 #1-530 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES

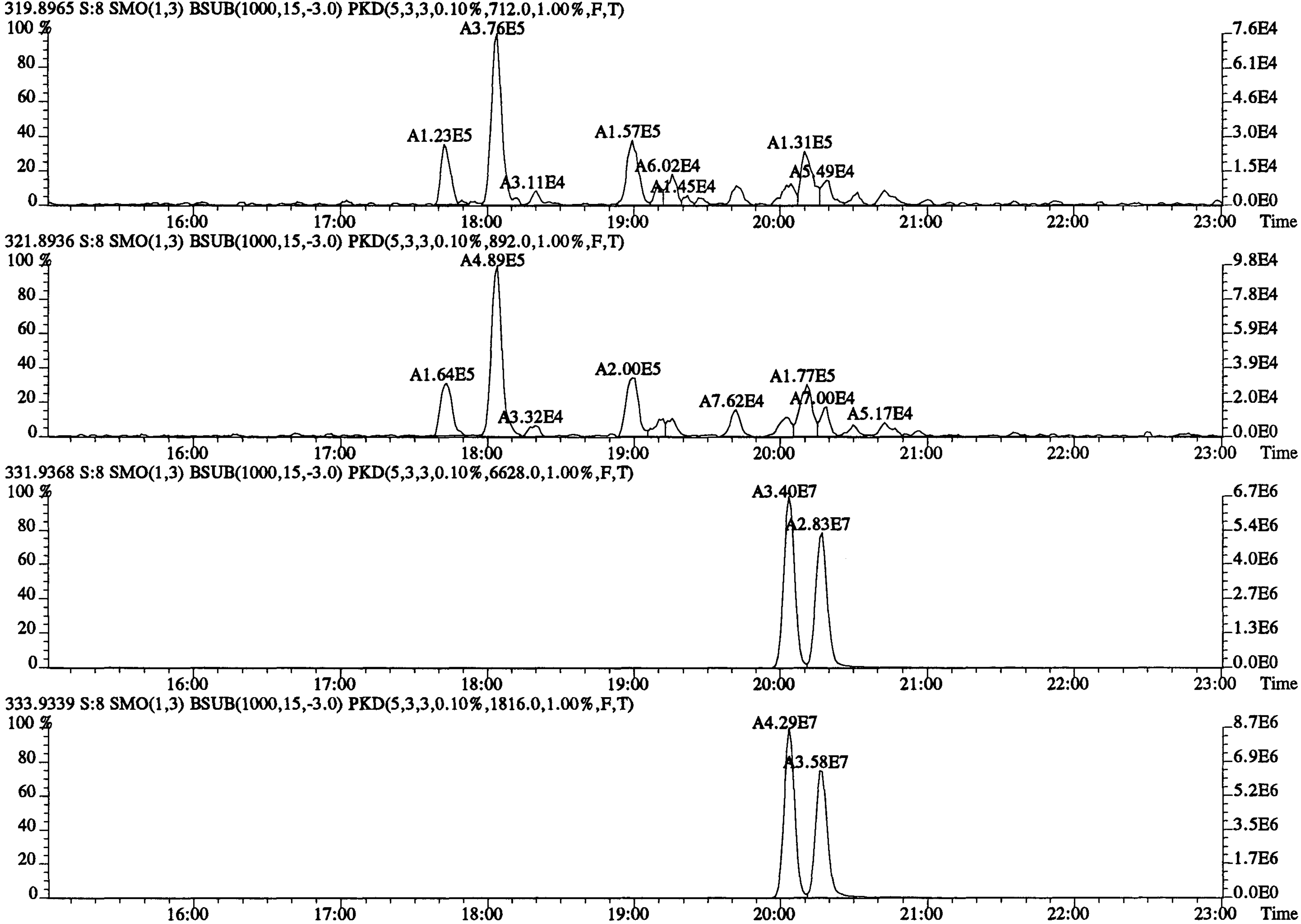

303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1756.0,1.00%,F,T)

305.8987 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4092.0,1.00%,F,T)

315.9419 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2512.0,1.00%,F,T)

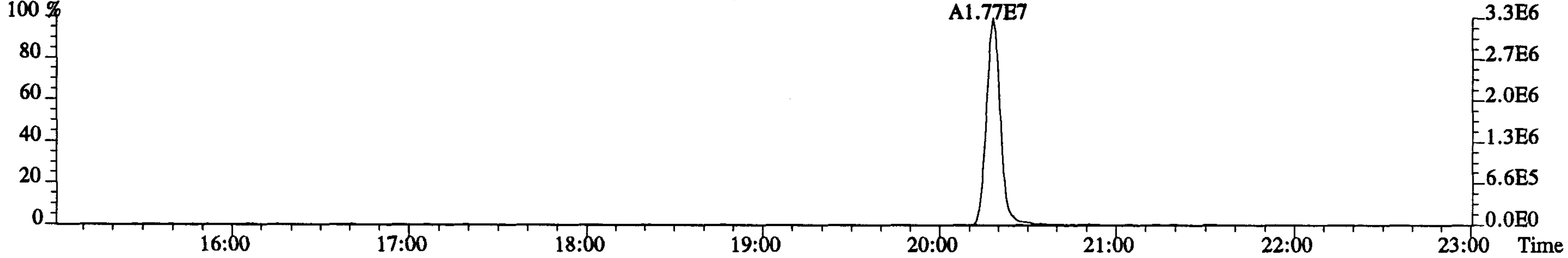
317.9389 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3480.0,1.00%,F,T)

File:18OC104D5 #1-530 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES

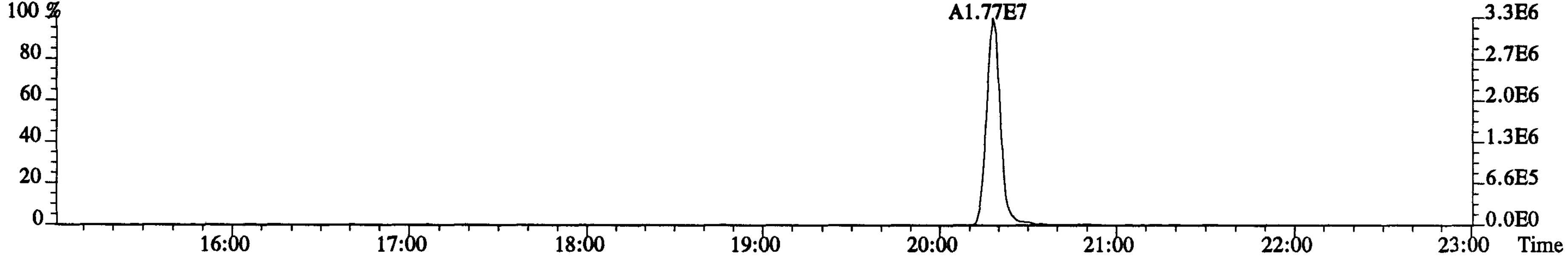


File:18OC104D5 #1-530 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES

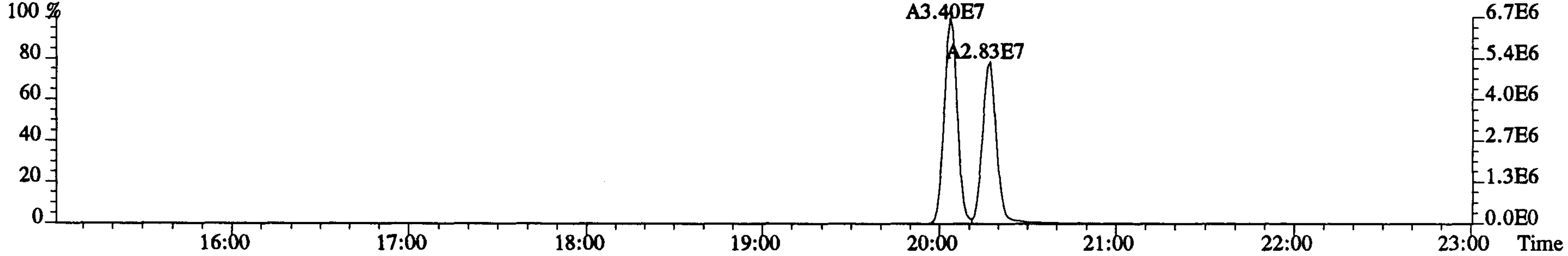
327.8847 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,80.0,1.00%,F,T)



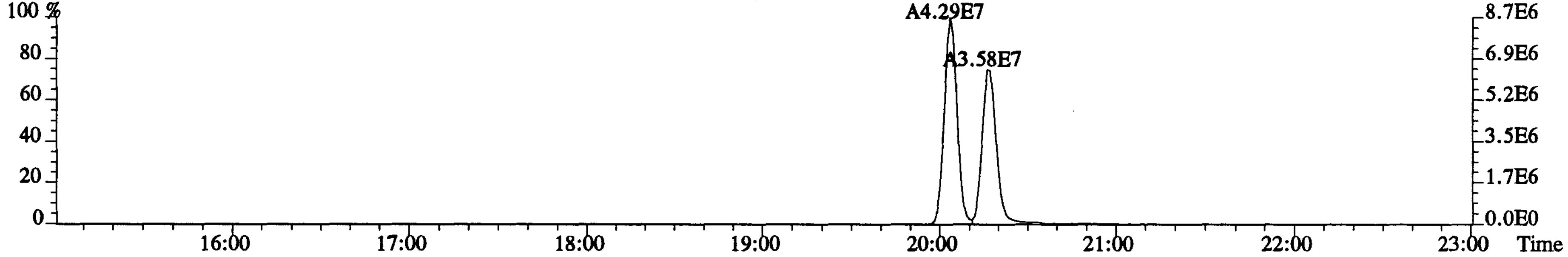
327.8847 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,80.0,1.00%,F,T)



331.9368 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6628.0,1.00%,F,T)

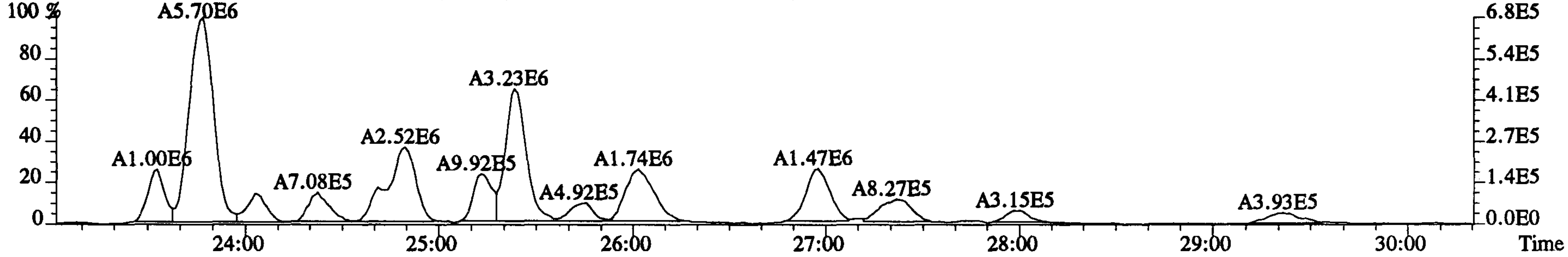


333.9339 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1816.0,1.00%,F,T)

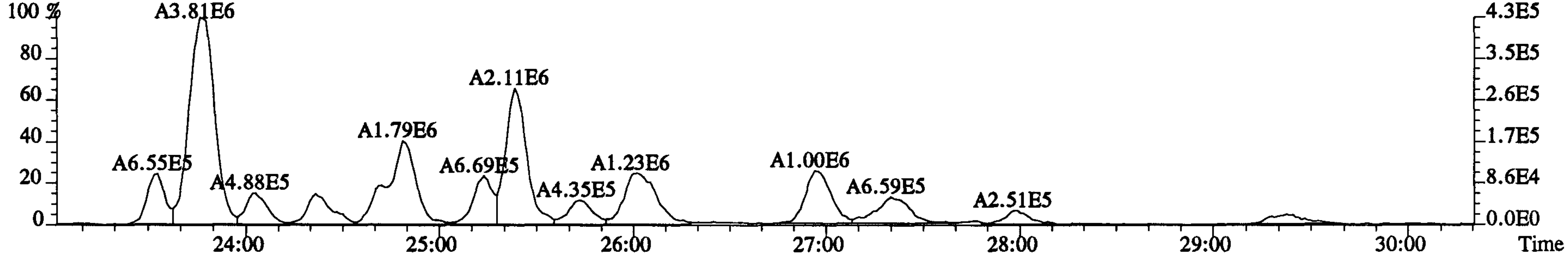


File:18OC104D5 #1-470 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES

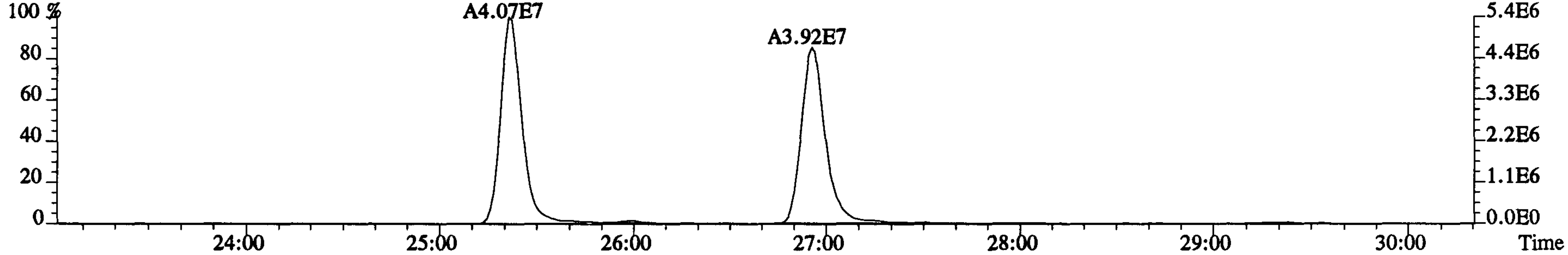
339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8608.0,1.00%,F,T)



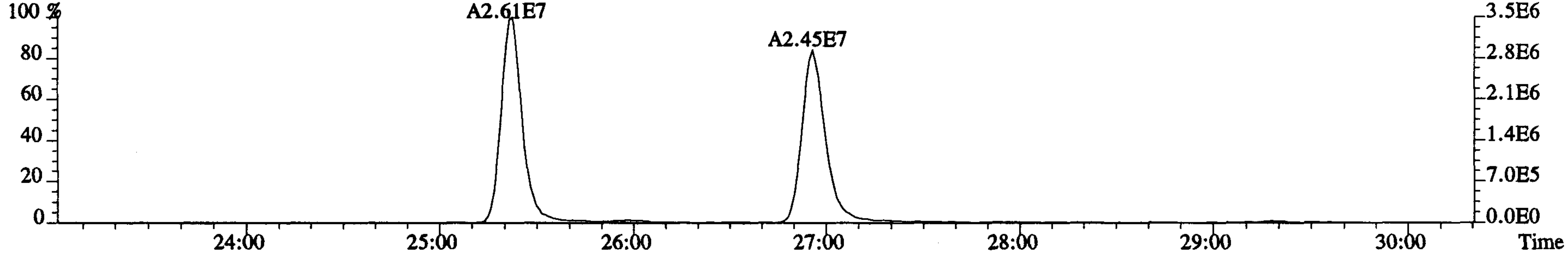
341.8567 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2260.0,1.00%,F,T)



351.9000 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5844.0,1.00%,F,T)

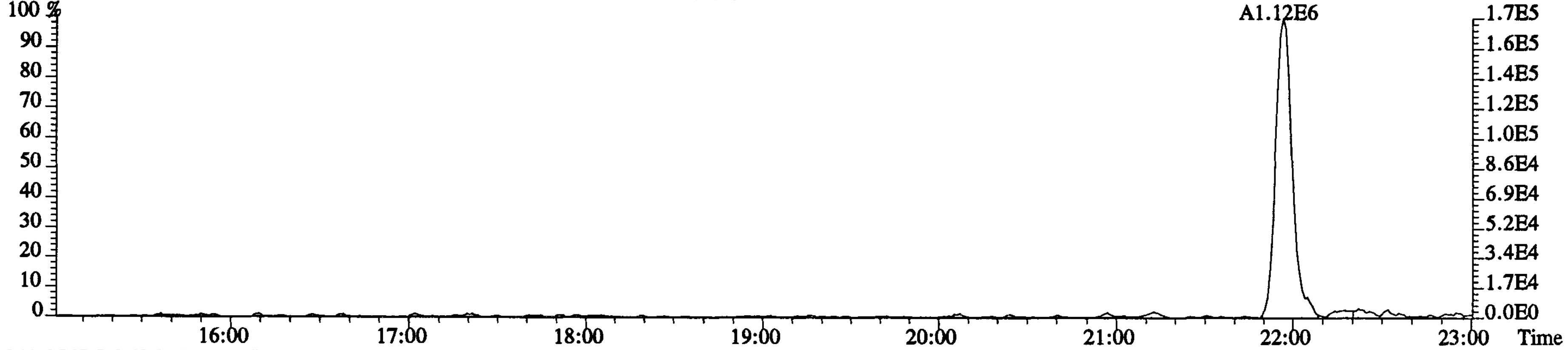


353.8970 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2428.0,1.00%,F,T)

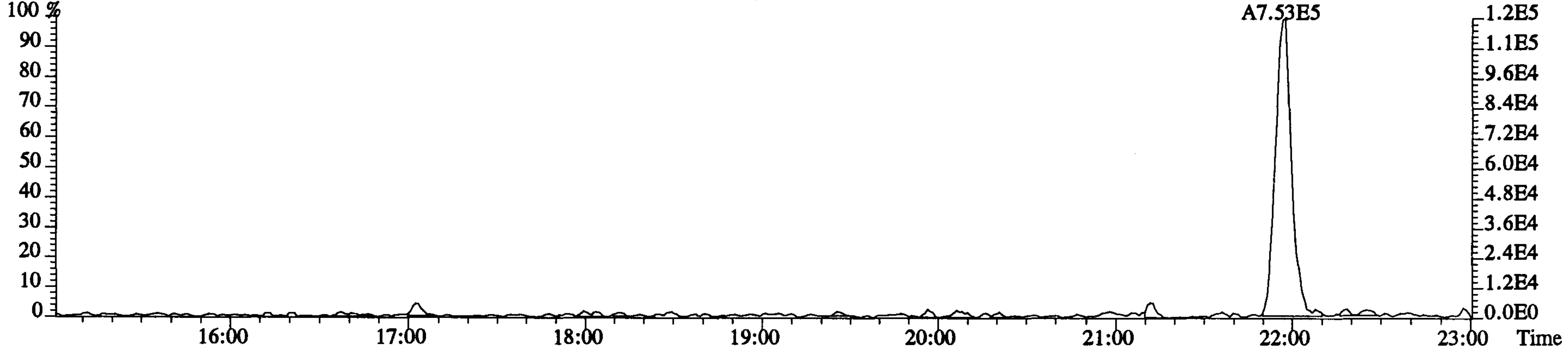


File:18OC104D5 #1-530 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES

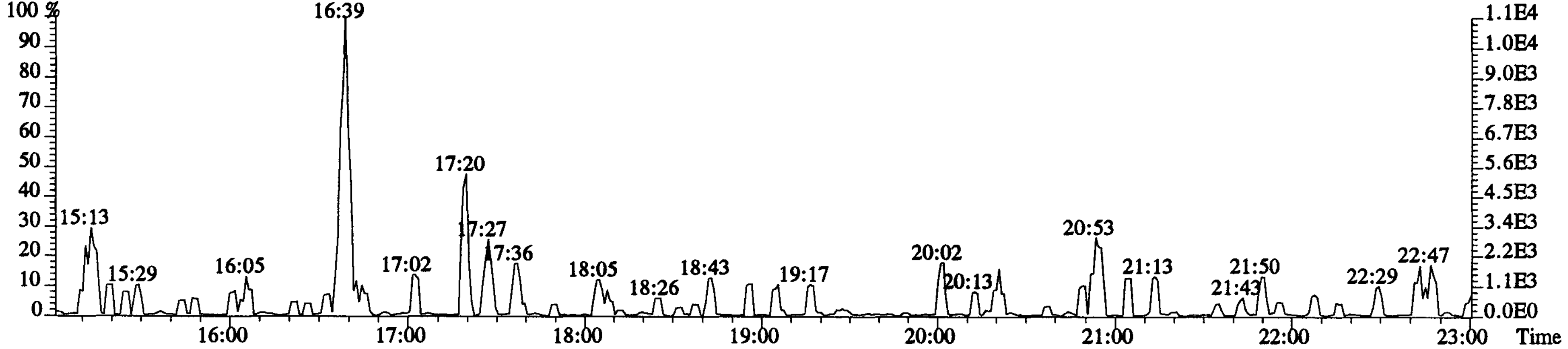
339.8597 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,88.0,1.00%,F,T)



341.8567 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1396.0,1.00%,F,T)

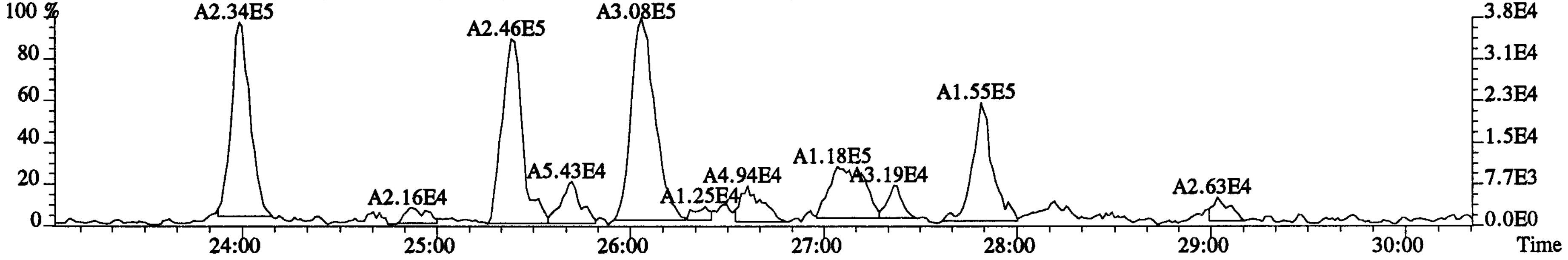


409.7974 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,80.0,1.00%,F,T)

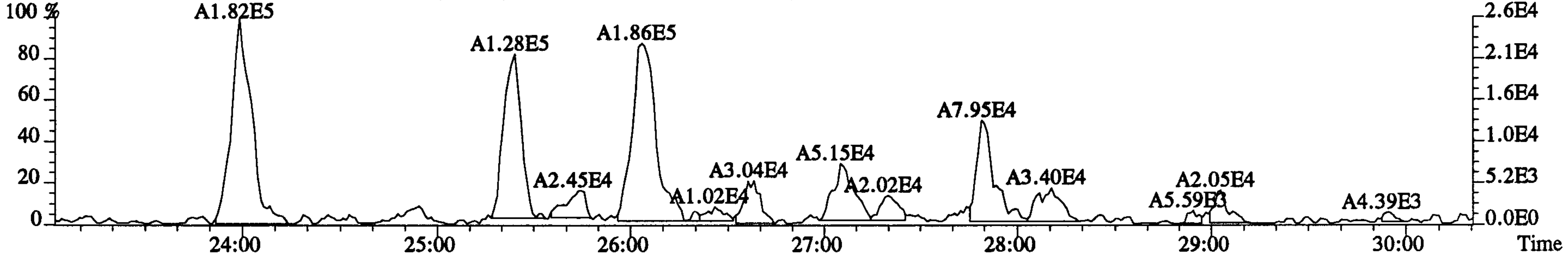


File:18OC104D5 #1-470 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES

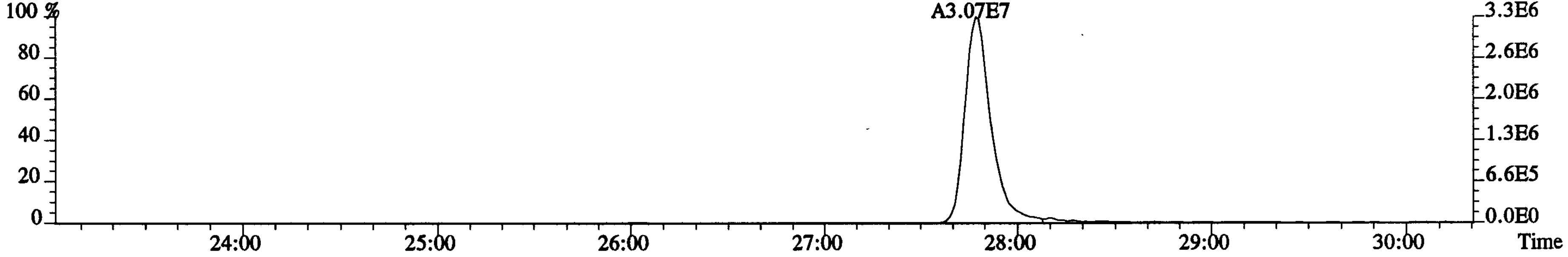
355.8546 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1596.0,1.00%,F,T)



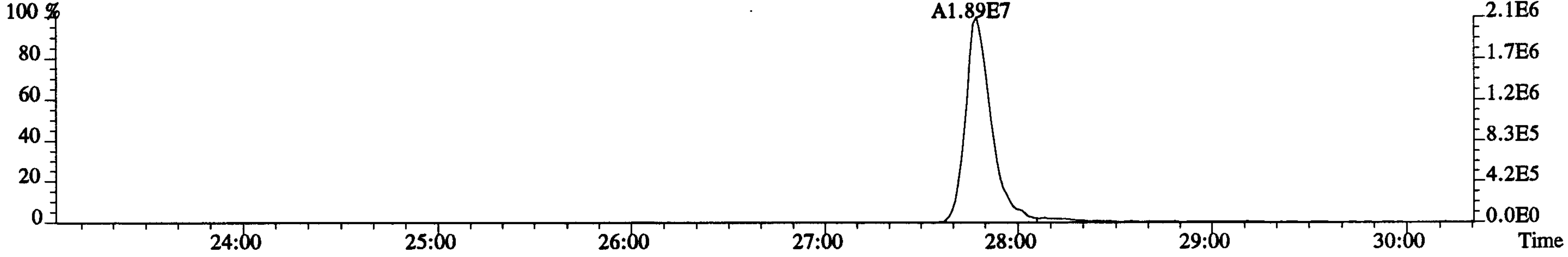
357.8516 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1032.0,1.00%,F,T)



367.8949 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3276.0,1.00%,F,T)

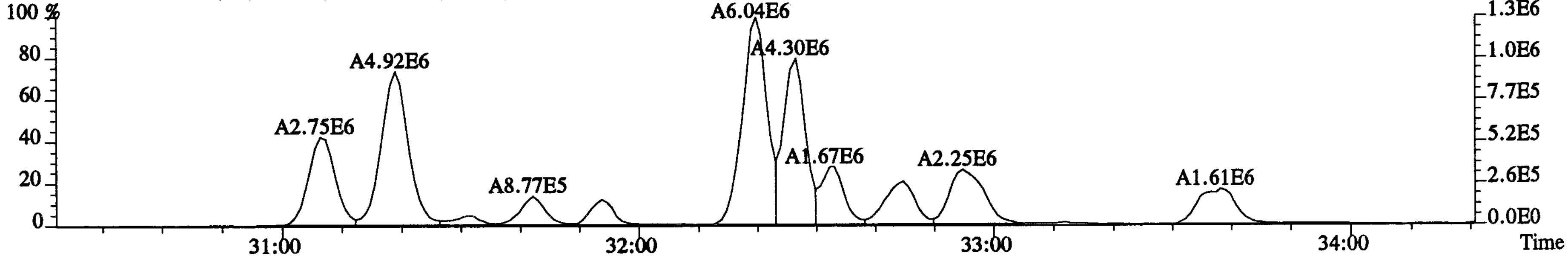


369.8919 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,120.0,1.00%,F,T)

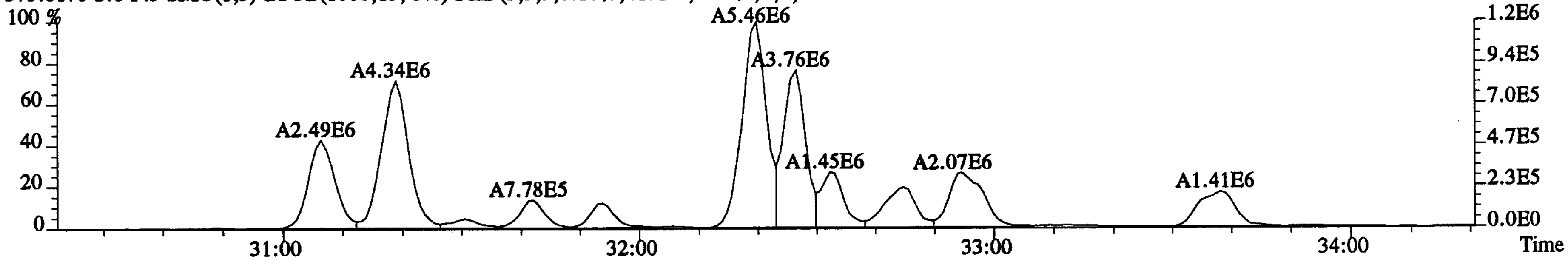


File:18OC104D5 #1-287 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES

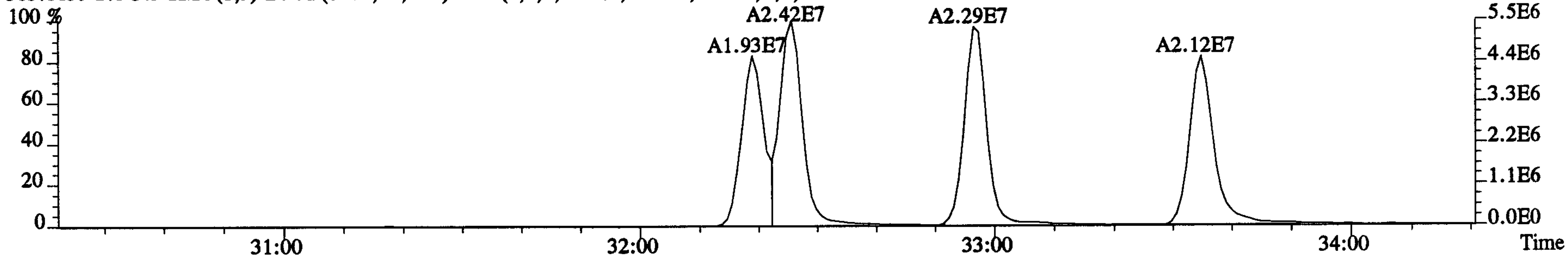
373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6296.0,1.00%,F,T)



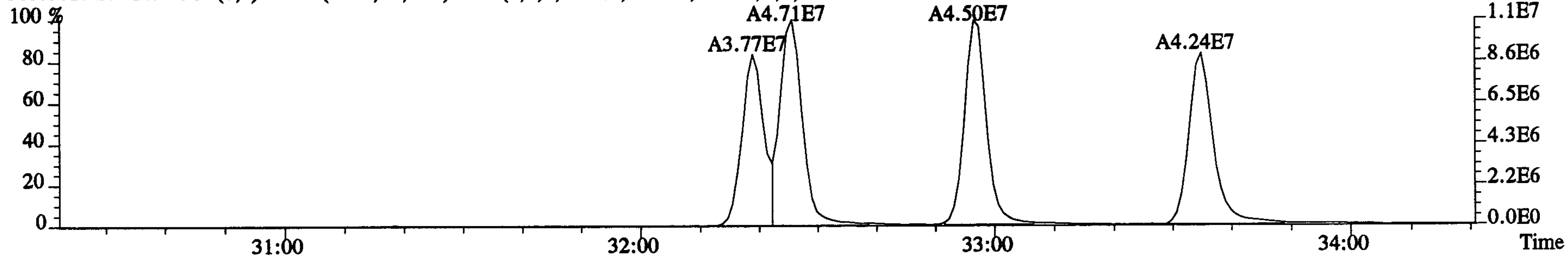
375.8178 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4152.0,1.00%,F,T)



383.8639 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1424.0,1.00%,F,T)

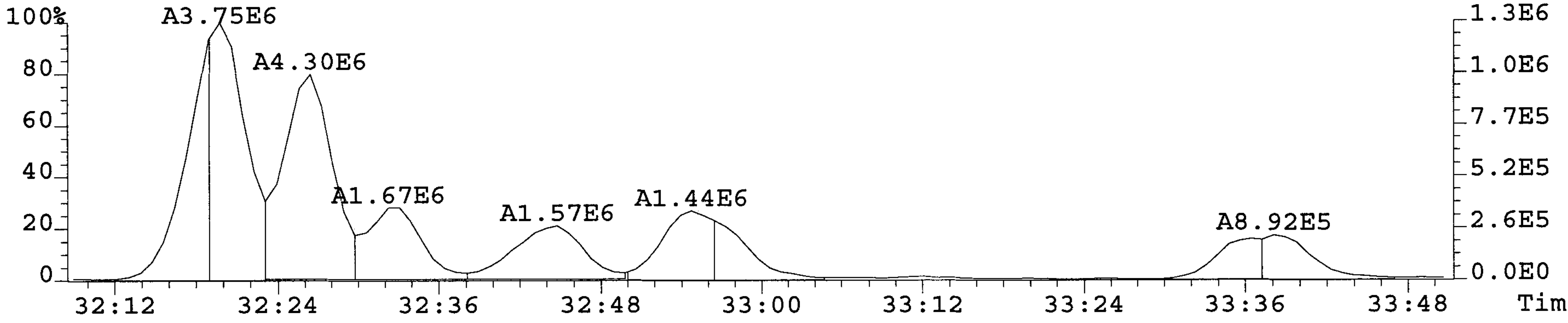


385.8610 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1692.0,1.00%,F,T)

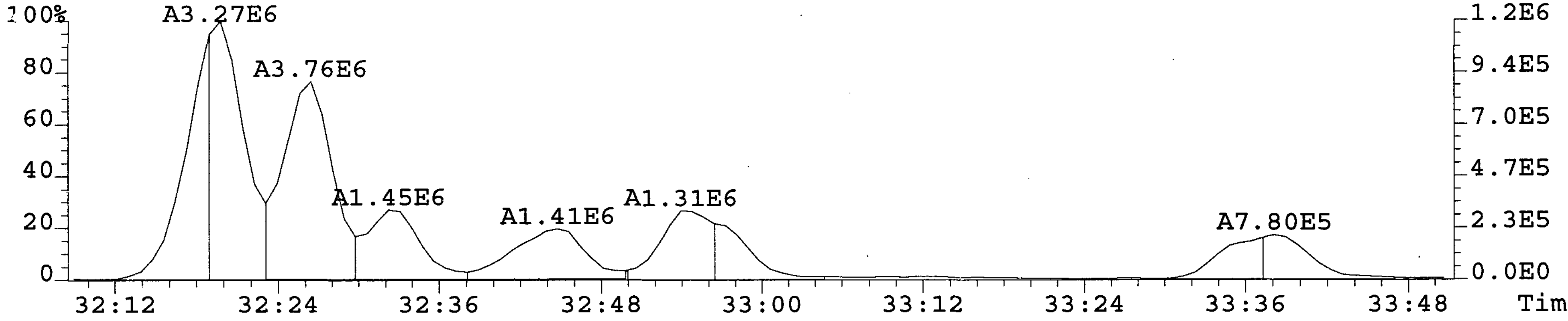


File:18OC104D5 #1-287 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 Exp:DIOXINRES

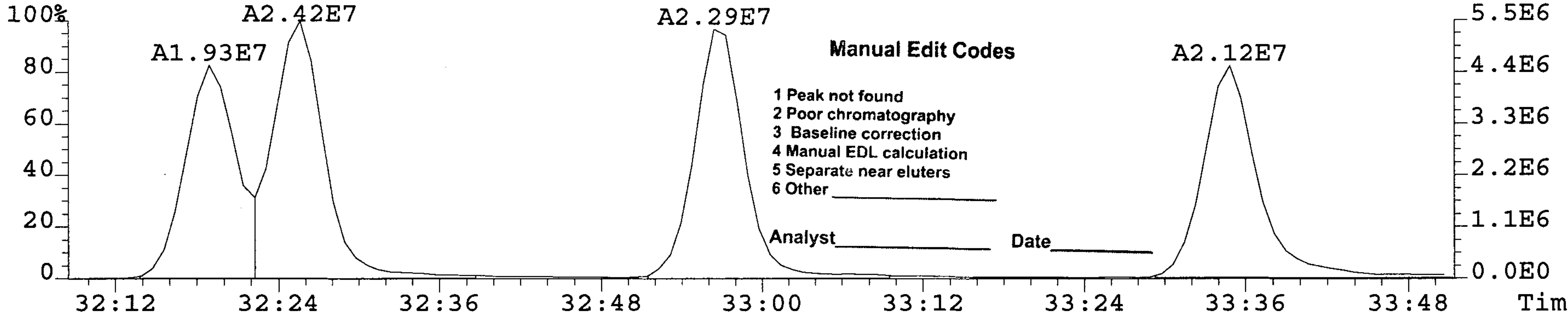
373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6296.0,1.00%,F,T)



375.8178 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4152.0,1.00%,F,T)



383.8639 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1424.0,1.00%,F,T)

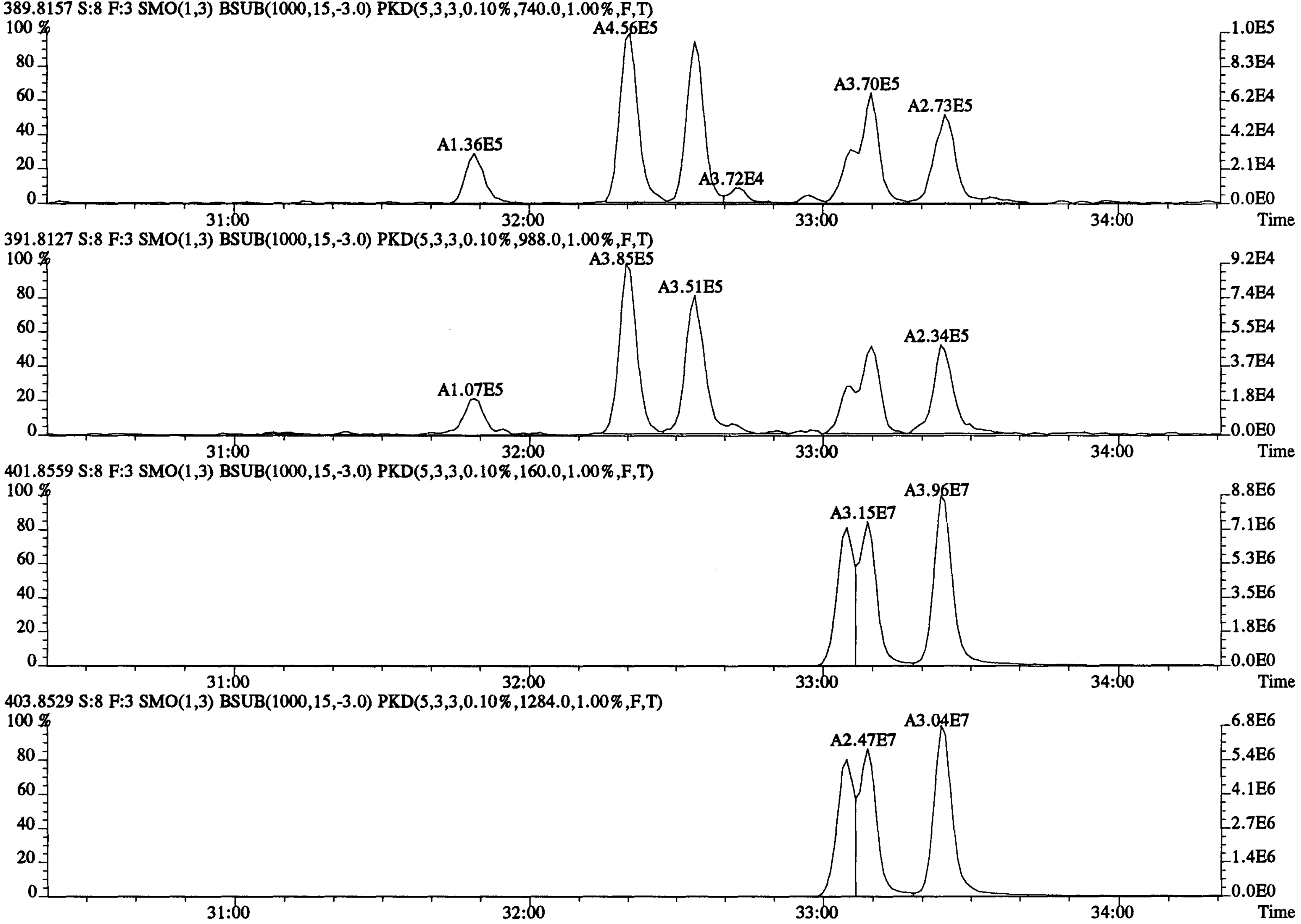


Manual Edit Codes

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

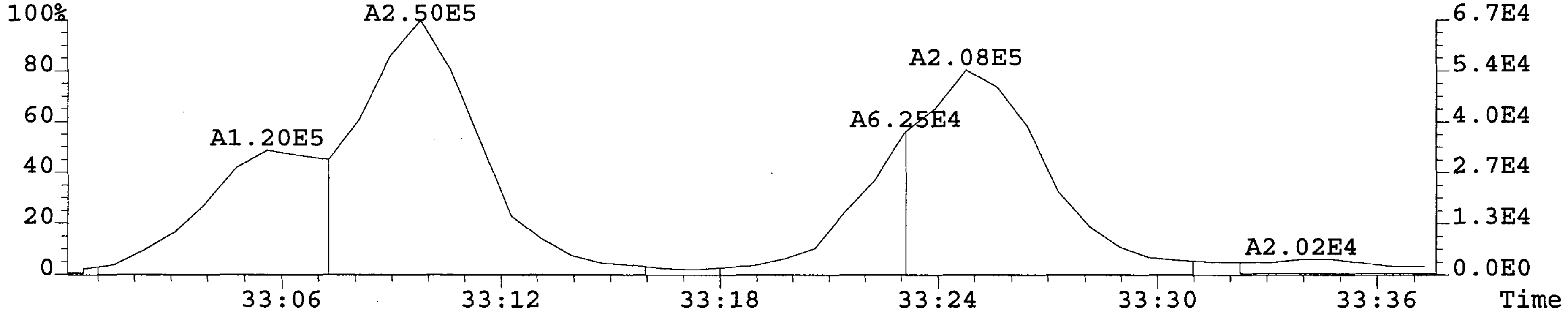
Analyst ____________ Date ________

File:18OC104D5 #1-287 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES

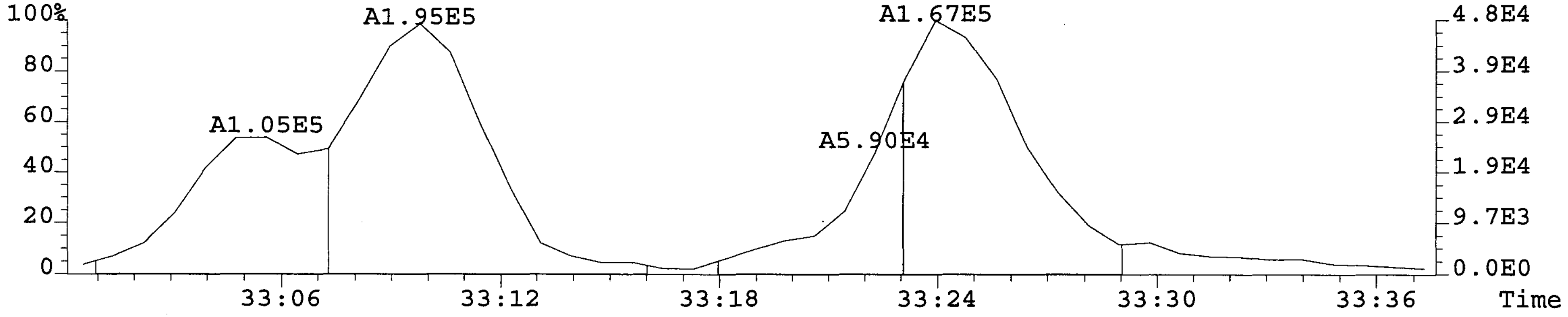


File:18OC104D5 #1-287 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 Exp:DIOXINRES

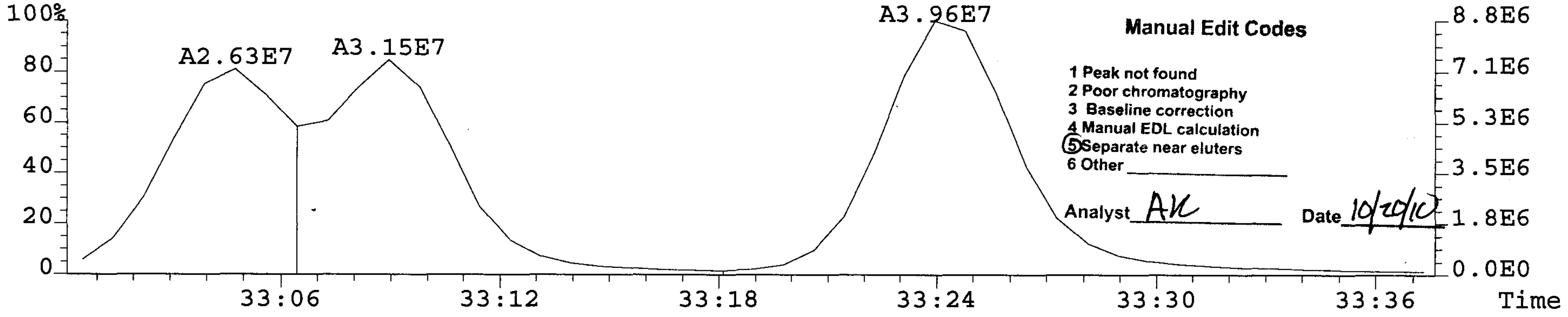
389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,740.0,1.00%,F,T)



391.8127 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,988.0,1.00%,F,T)



401.8559 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,160.0,1.00%,F,T)



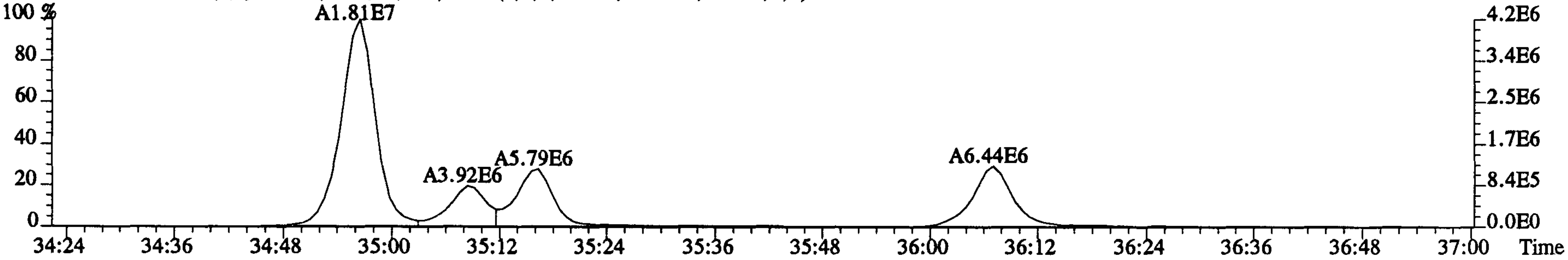
Manual Edit Codes

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

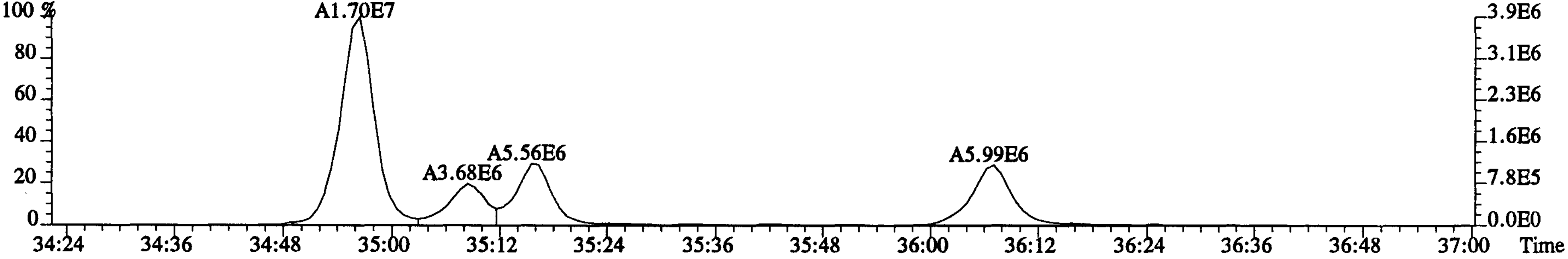
Analyst AK Date 10/20/10

File:18OC104D5 #1-200 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES

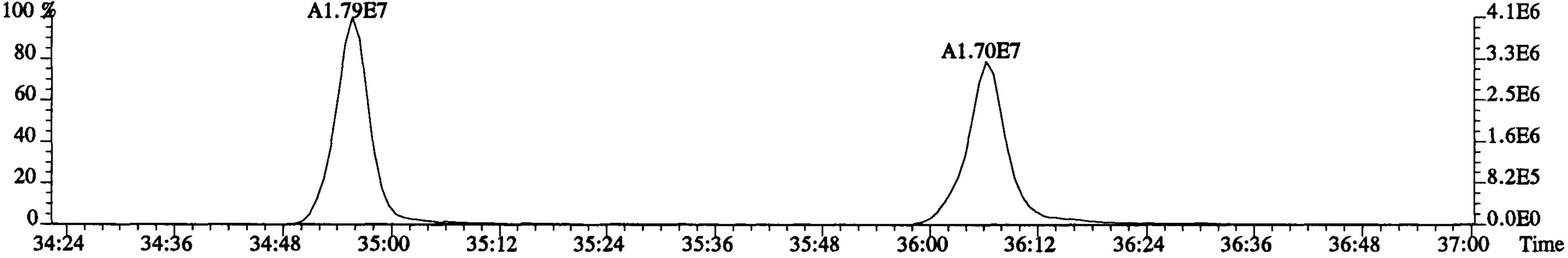
407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11568.0,1.00%,F,T)



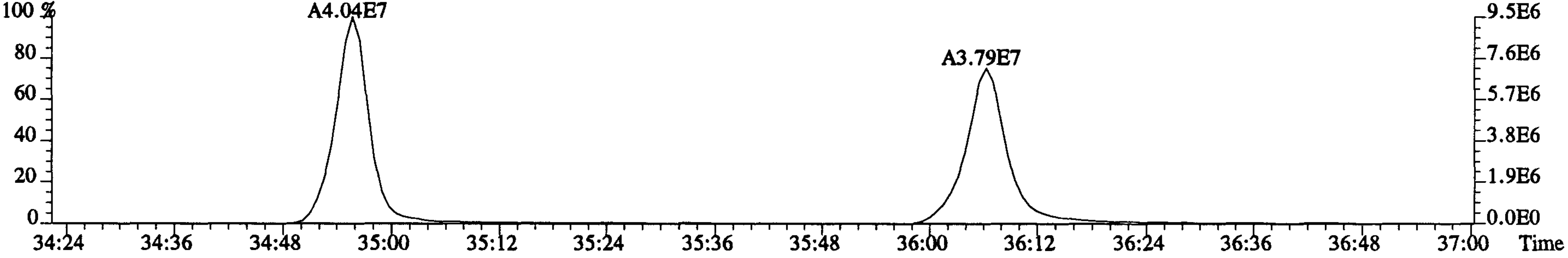
409.7789 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6132.0,1.00%,F,T)



417.8253 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10188.0,1.00%,F,T)

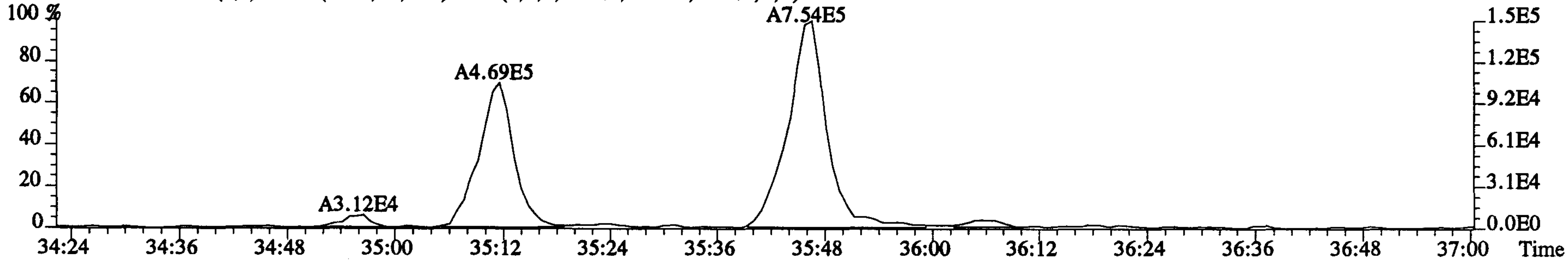


419.8220 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6640.0,1.00%,F,T)

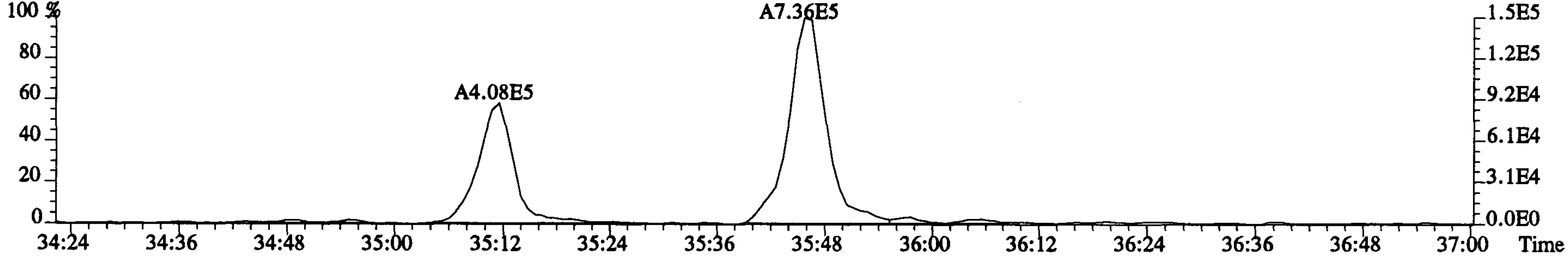


File:18OC104D5 #1-200 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES

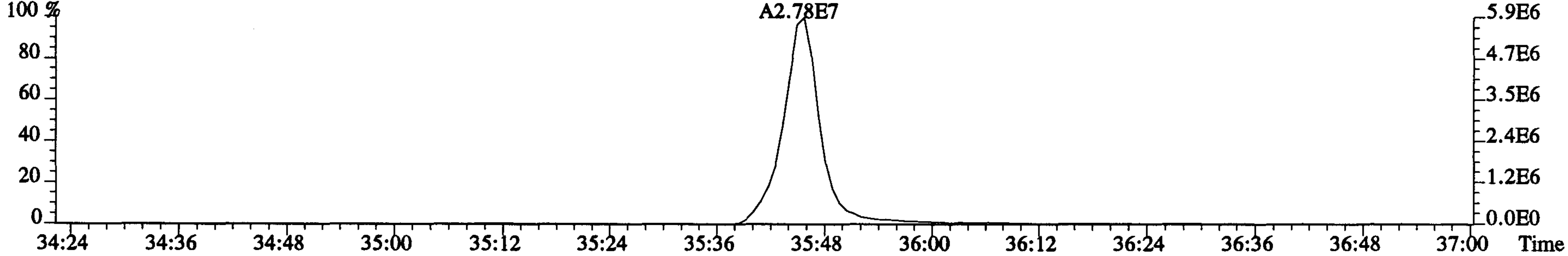
423.7766 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1808.0,1.00%,F,T)



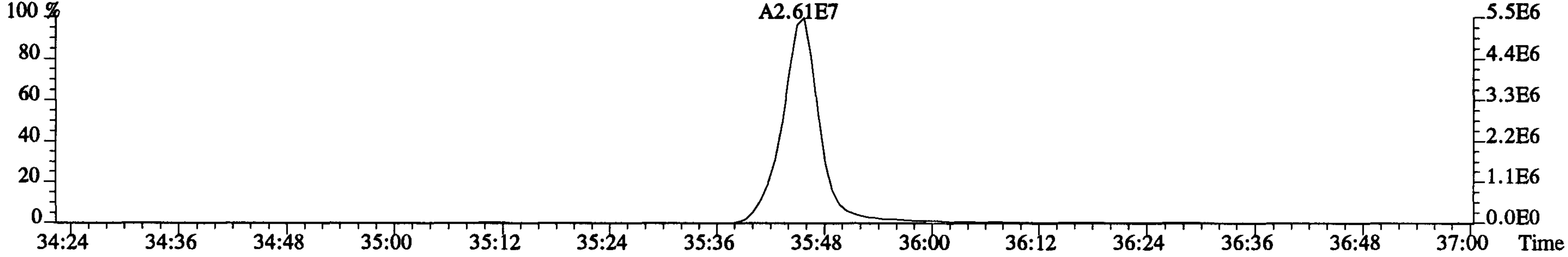
425.7737 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1416.0,1.00%,F,T)



435.8169 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1488.0,1.00%,F,T)

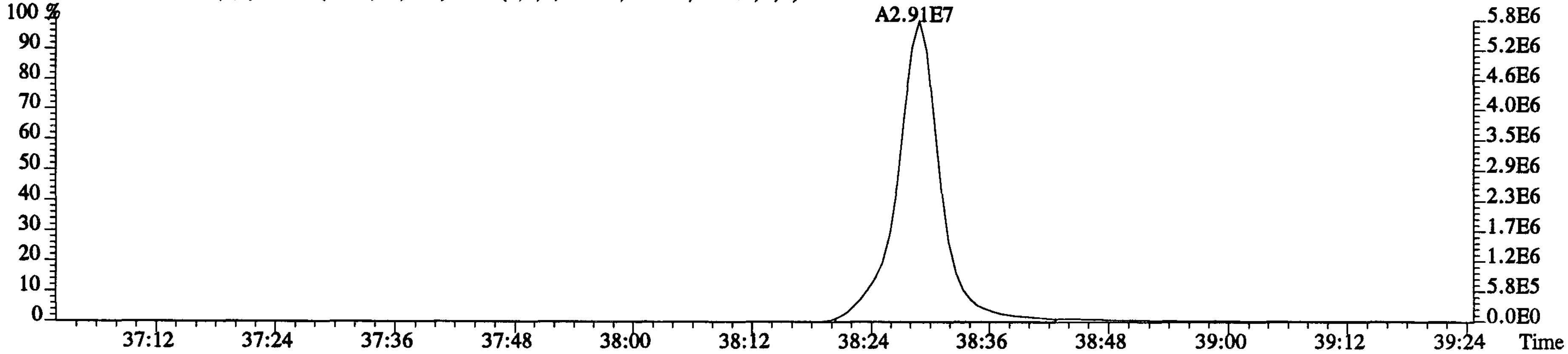


437.8140 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4288.0,1.00%,F,T)

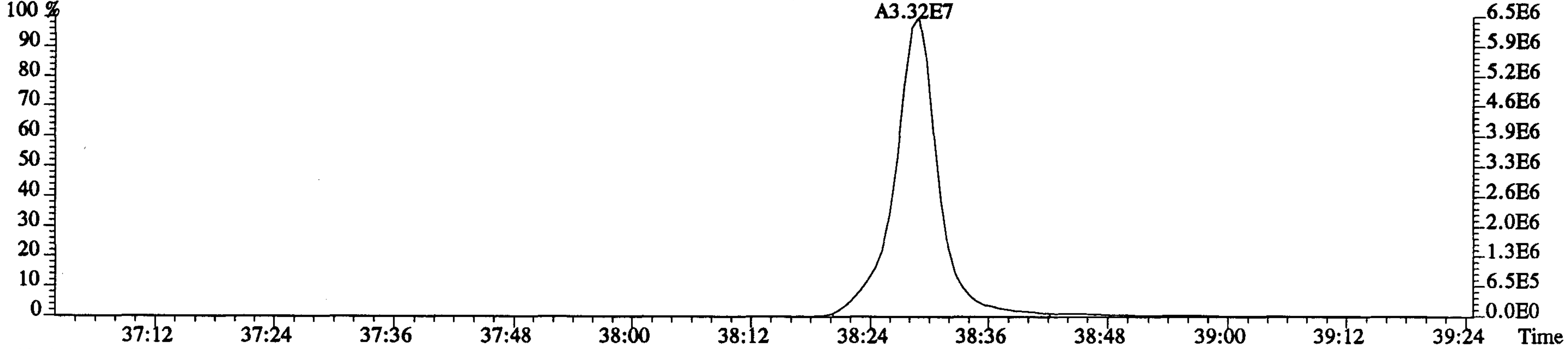


File:18OC104D5 #1-193 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES

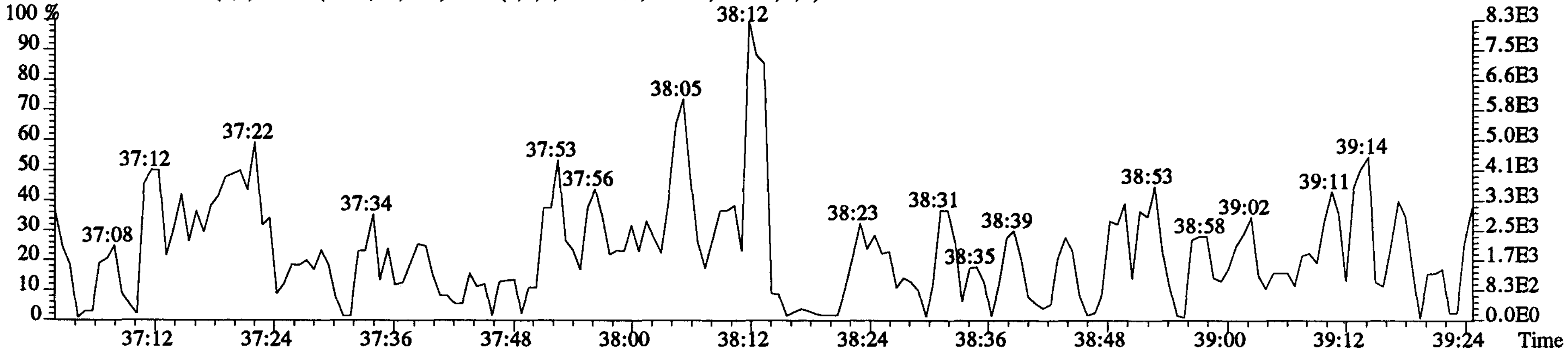
441.7428 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1388.0,1.00%,F,T)



443.7399 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1432.0,1.00%,F,T)

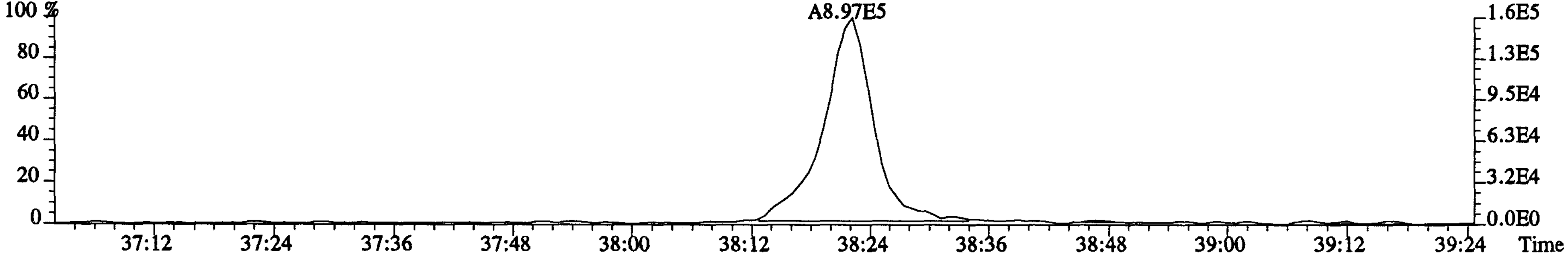


513.6775 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,3660.0,1.00%,F,T)

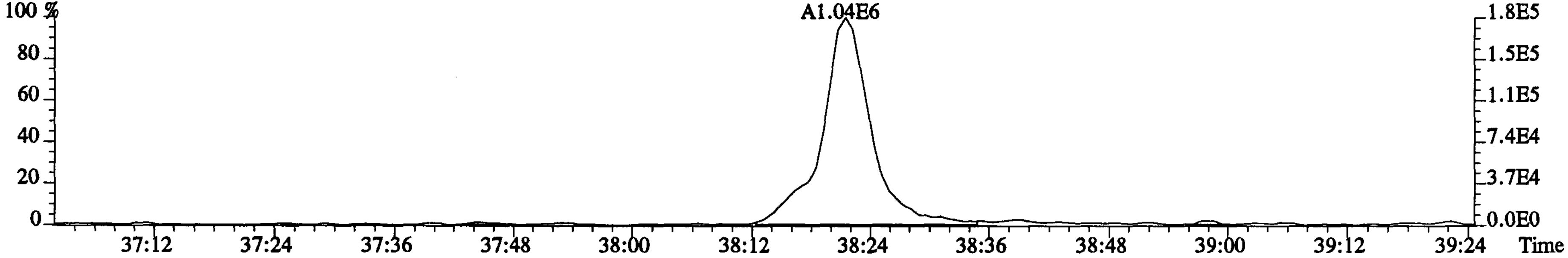


File:18OC104D5 #1-193 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES

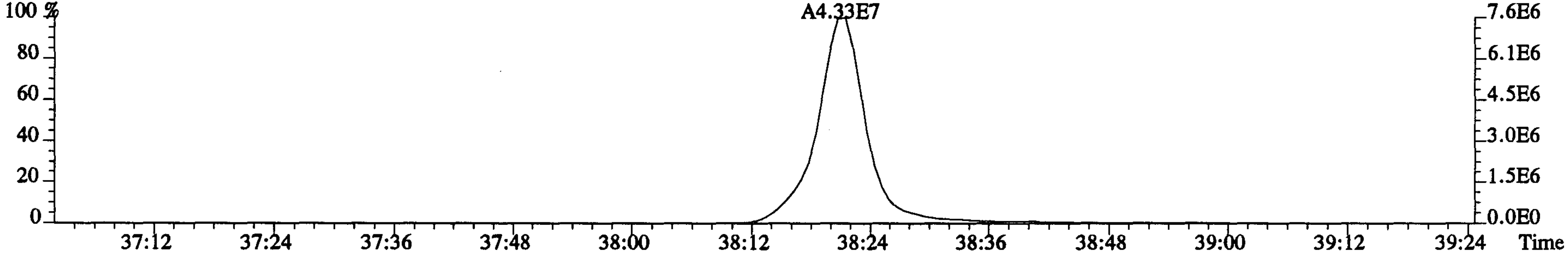
457.7377 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1980.0,1.00%,F,T)



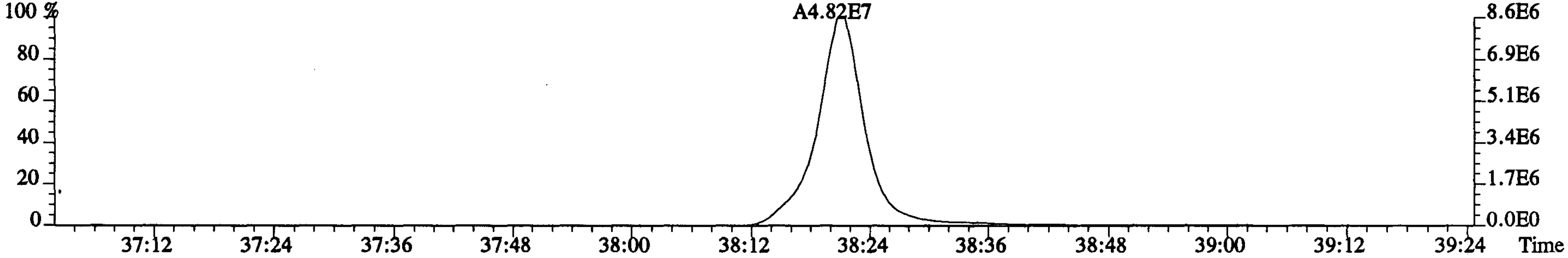
459.7348 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2112.0,1.00%,F,T)



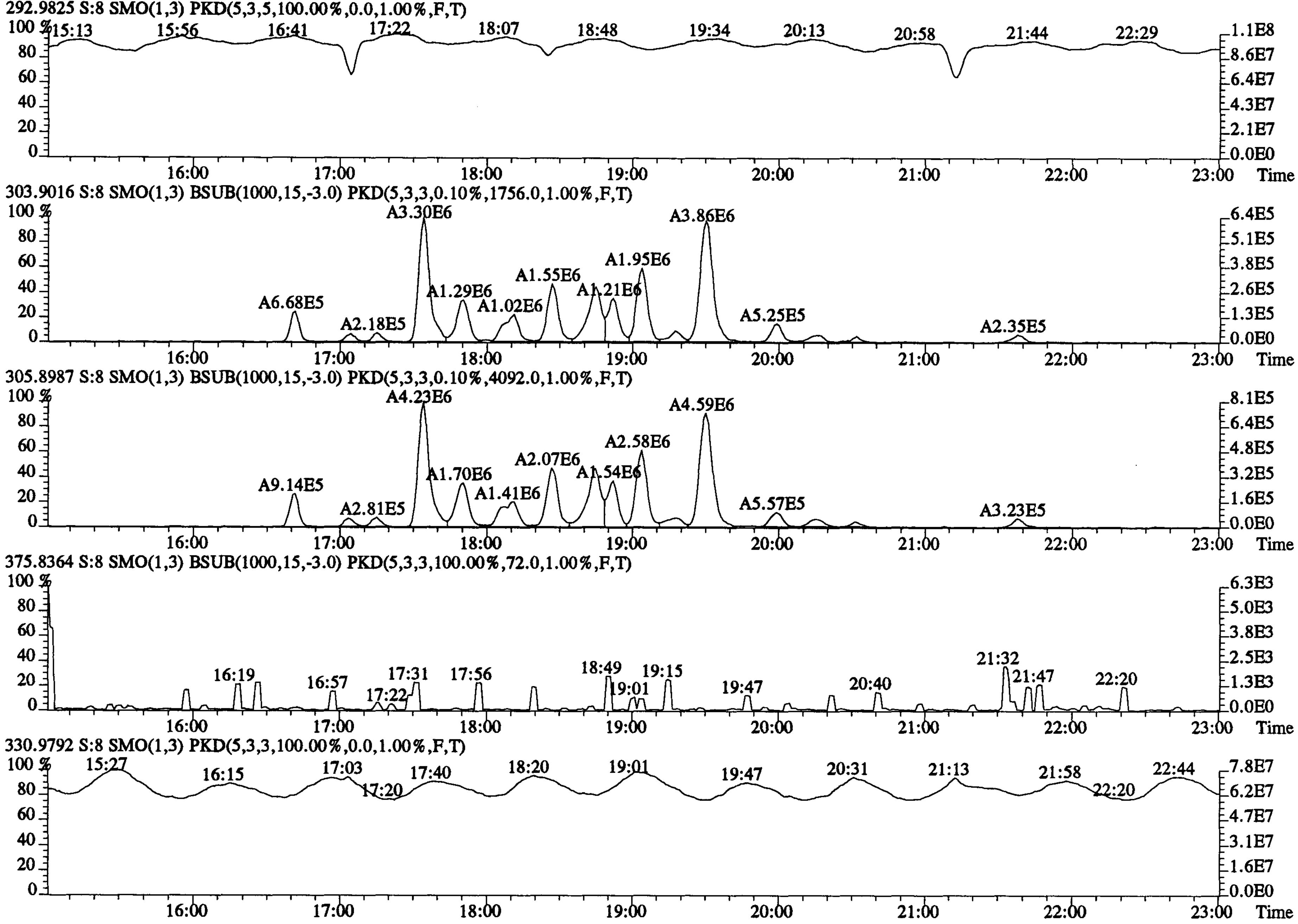
469.7779 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8568.0,1.00%,F,T)



471.7750 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4132.0,1.00%,F,T)

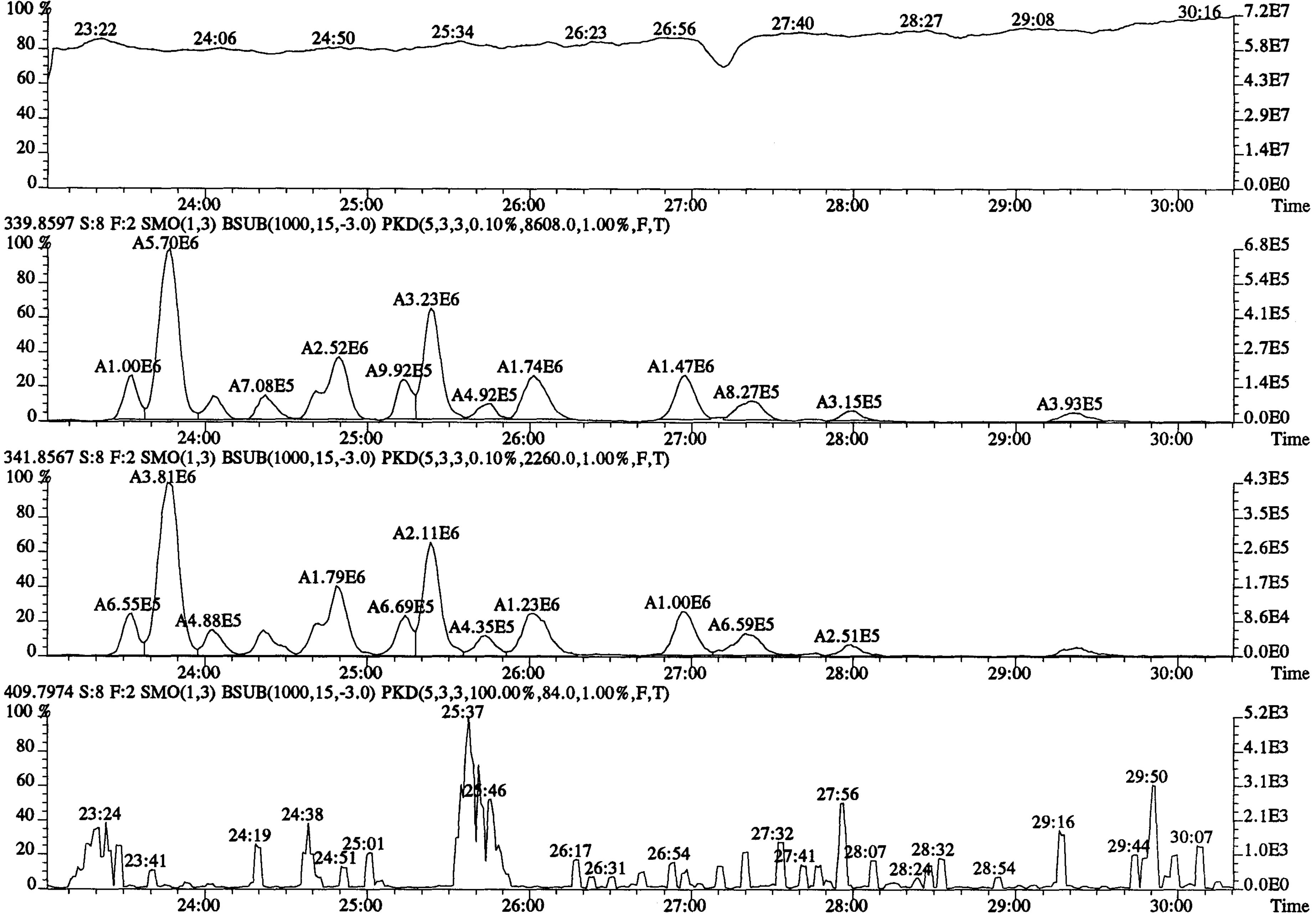


File:18OC104D5 #1-530 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES

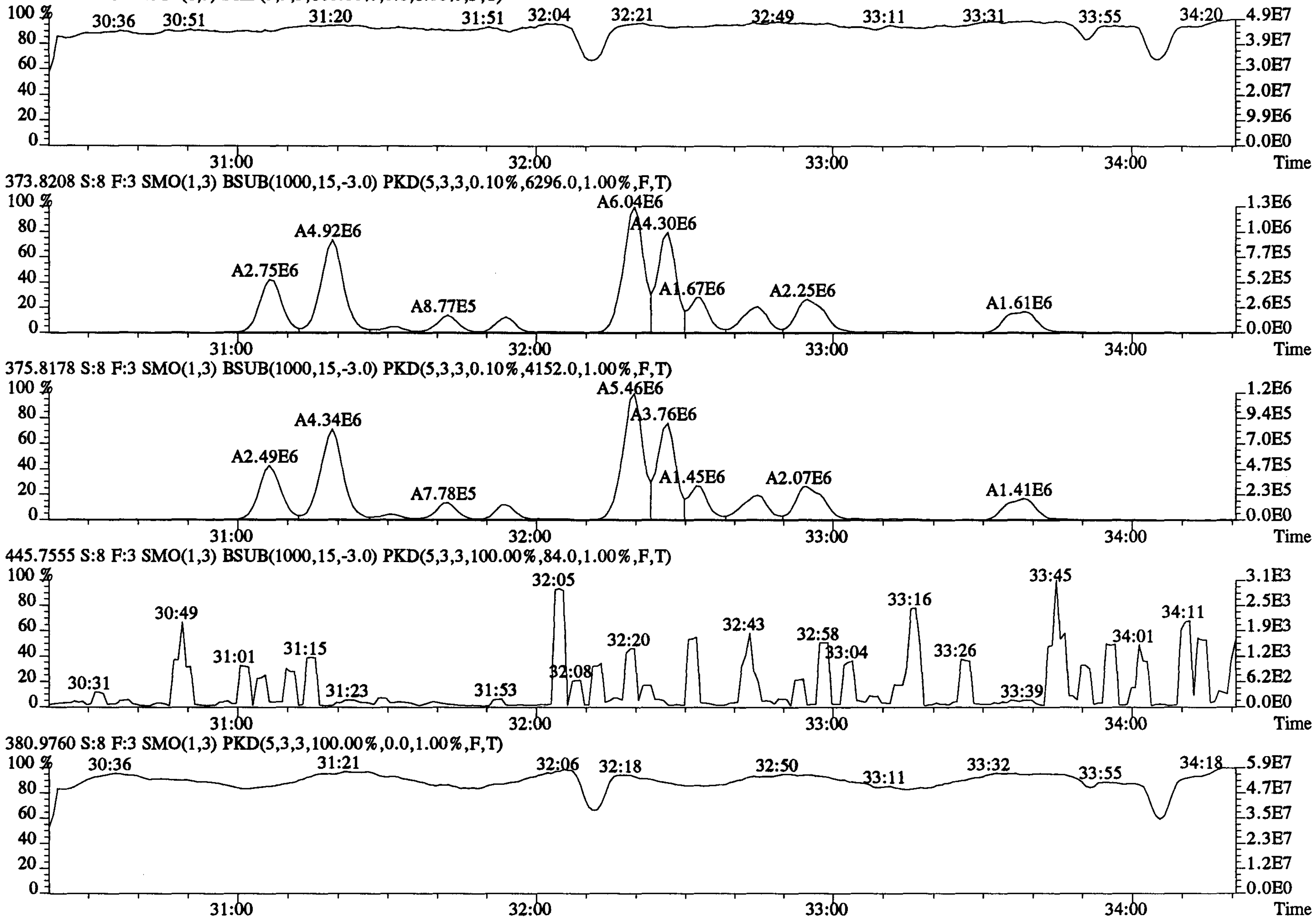


File:18OC104D5 #1-470 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES

342.9792 S:8 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:18OC104D5 #1-287 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES



392.9760 S:8 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

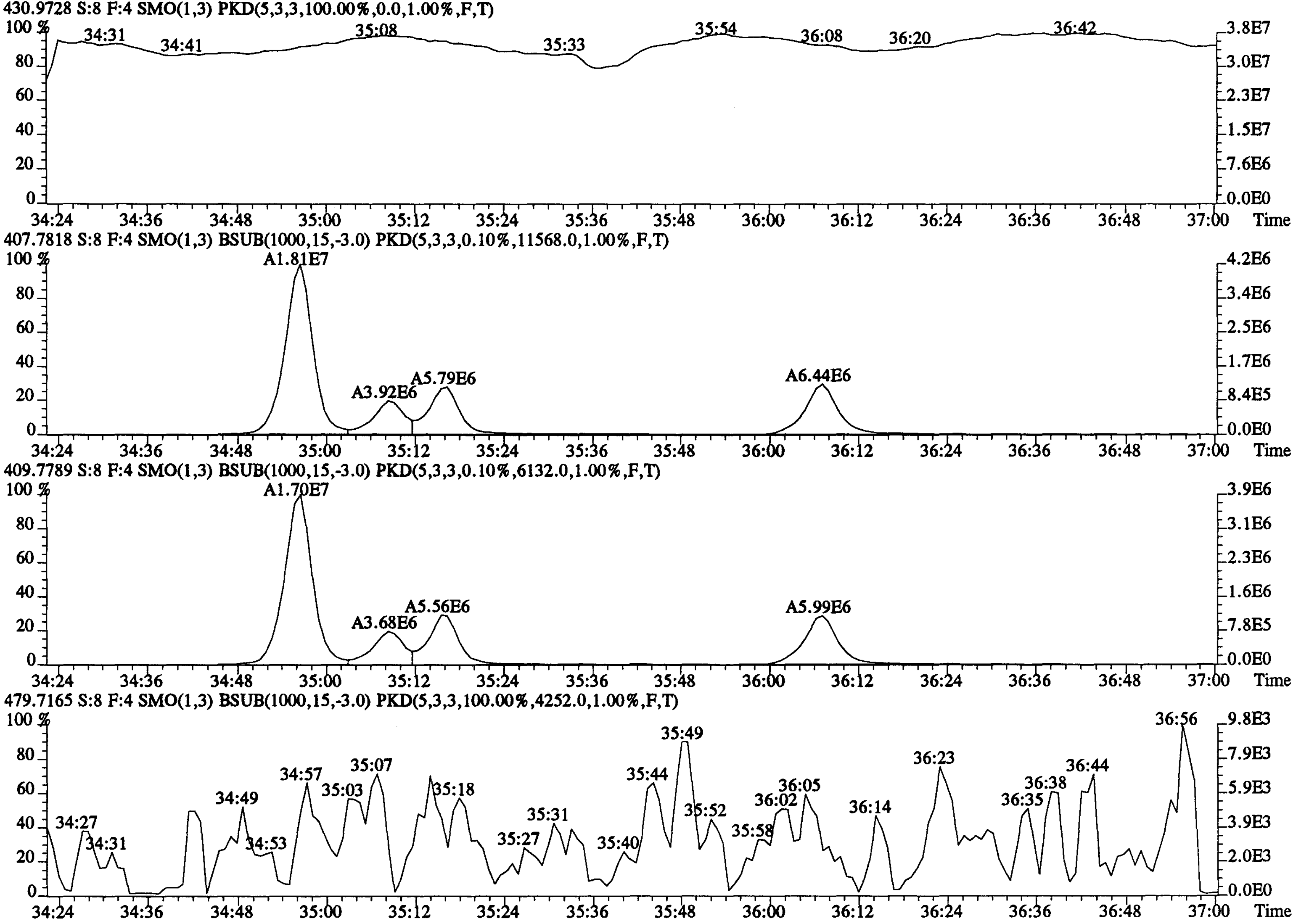
373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6296.0,1.00%,F,T)

375.8178 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4152.0,1.00%,F,T)

445.7555 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,84.0,1.00%,F,T)

380.9760 S:8 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

File:18OC104D5 #1-200 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES



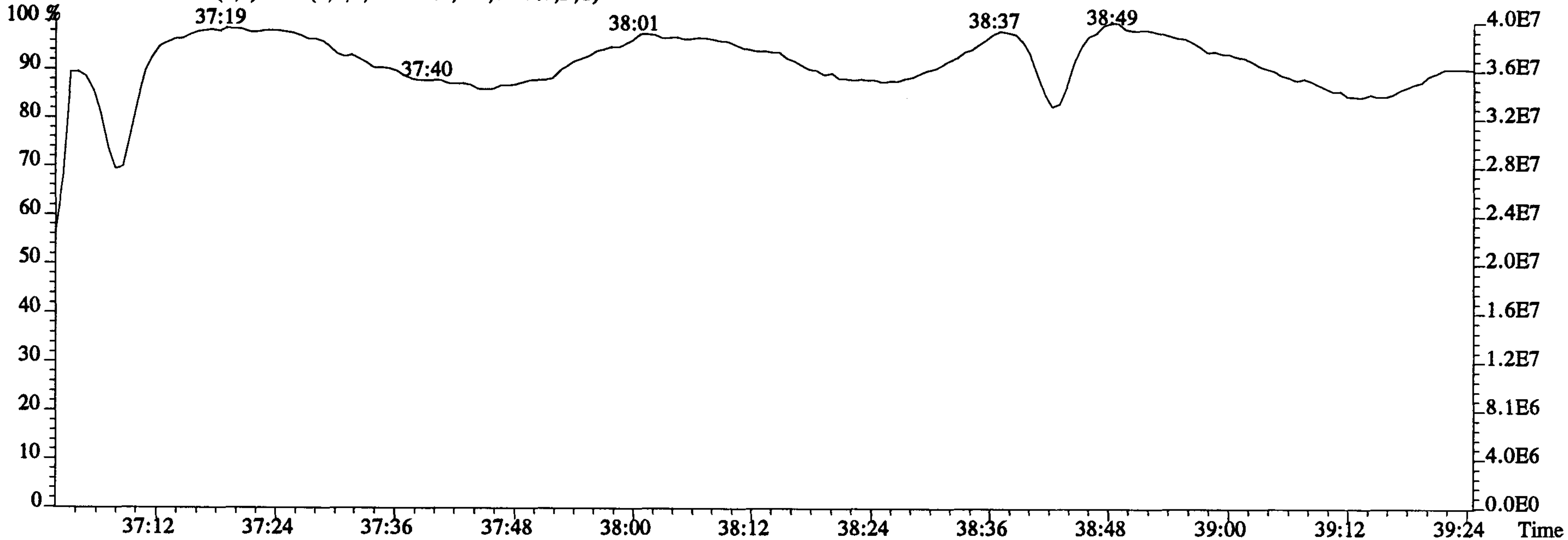
430.9728 S:8 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11568.0,1.00%,F,T)

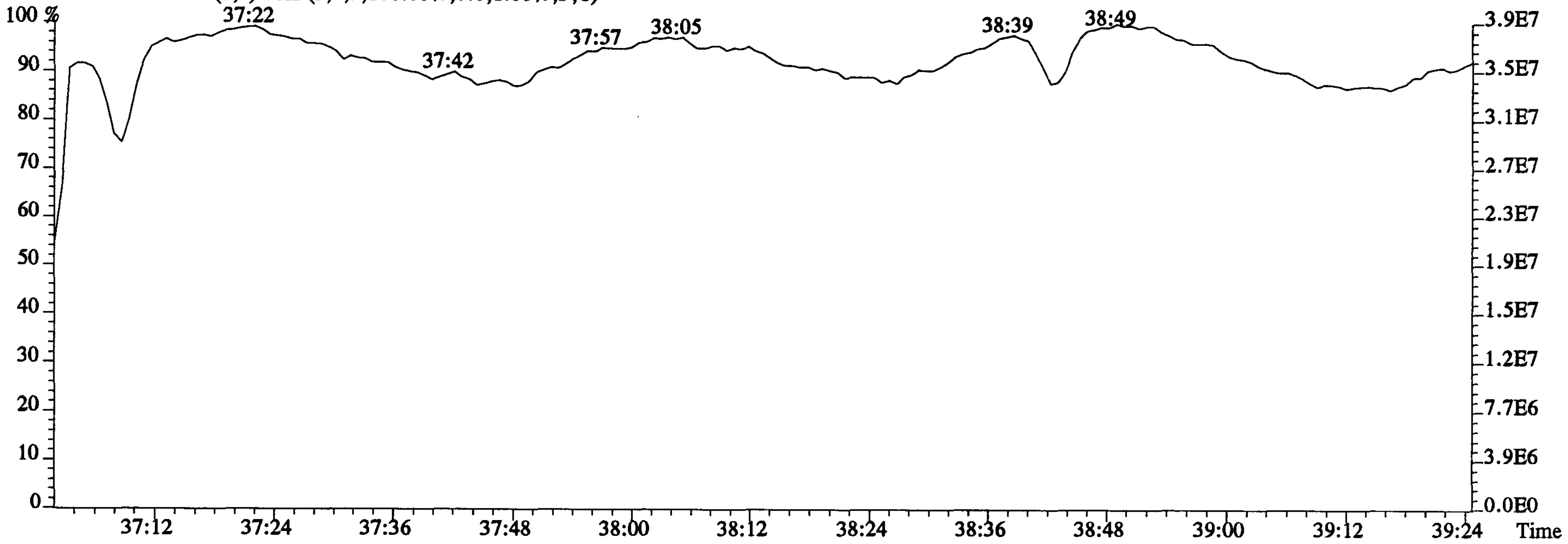
409.7789 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6132.0,1.00%,F,T)

479.7165 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4252.0,1.00%,F,T)

File:18OC104D5 #1-193 Acq:18-OCT-2010 14:19:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:L8ALT-1-AA :G0J120429-5 RI Exp:DIOXINRES
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: L8ALT-1-AA      Sample text: G0J120429-5
Run #8  Filename: 19OC105D2   S: 12   I: 1      Results: 19OC105D2DB225AIR
Acquired: 19-OCT-10   16:24:27          Processed: 19-OCT-10  23:13:19
Run: 19OC105D2       Analyte: DB225AIR        Cal: DB225AIR0726105D2R
Factor 1: 1600.000    Factor 2: 20.000      Sample size: 0.500000SAMP


                Name       Resp   RA       RT  RRF          Conc            EDL        Rec   M

    13C-1,2,3,4-TCDD  191432200 0.76 y  15:05    -        324.19              -          -   n

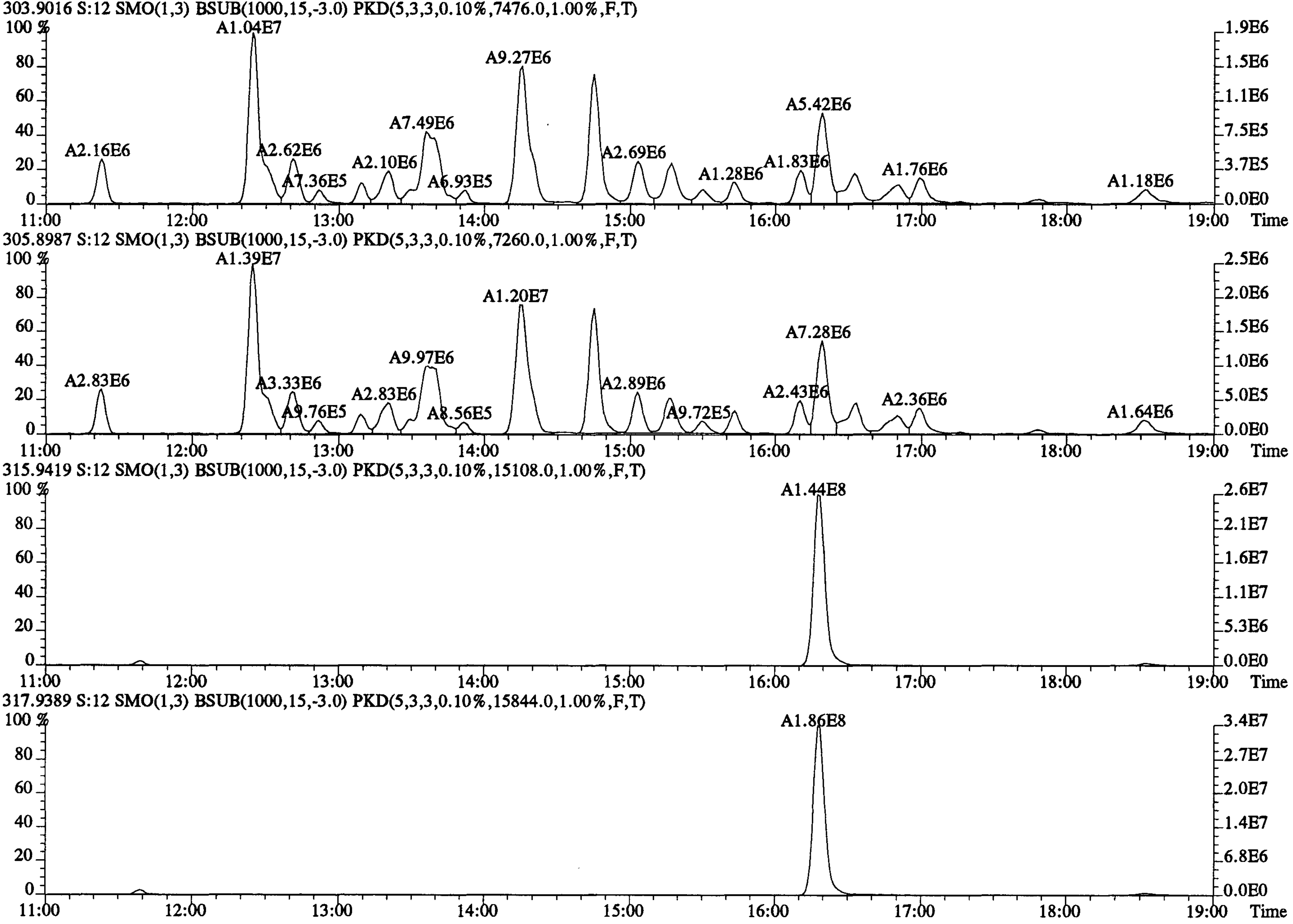
    13C-2,3,7,8-TCDF  329532000 0.78 y  16:18 2.11       3261.23           4.71       81.5   n
        2,3,7,8-TCDF   12696550 0.74 y  16:19 1.06        145.93           2.78          -   n

    13C-2,3,7,8-TCDD  145599400 0.75 y  14:48 0.88       3438.75          10.50       86.0   n
        2,3,7,8-TCDD     678556 0.65 n  14:51 1.64         11.40           2.51          -   n

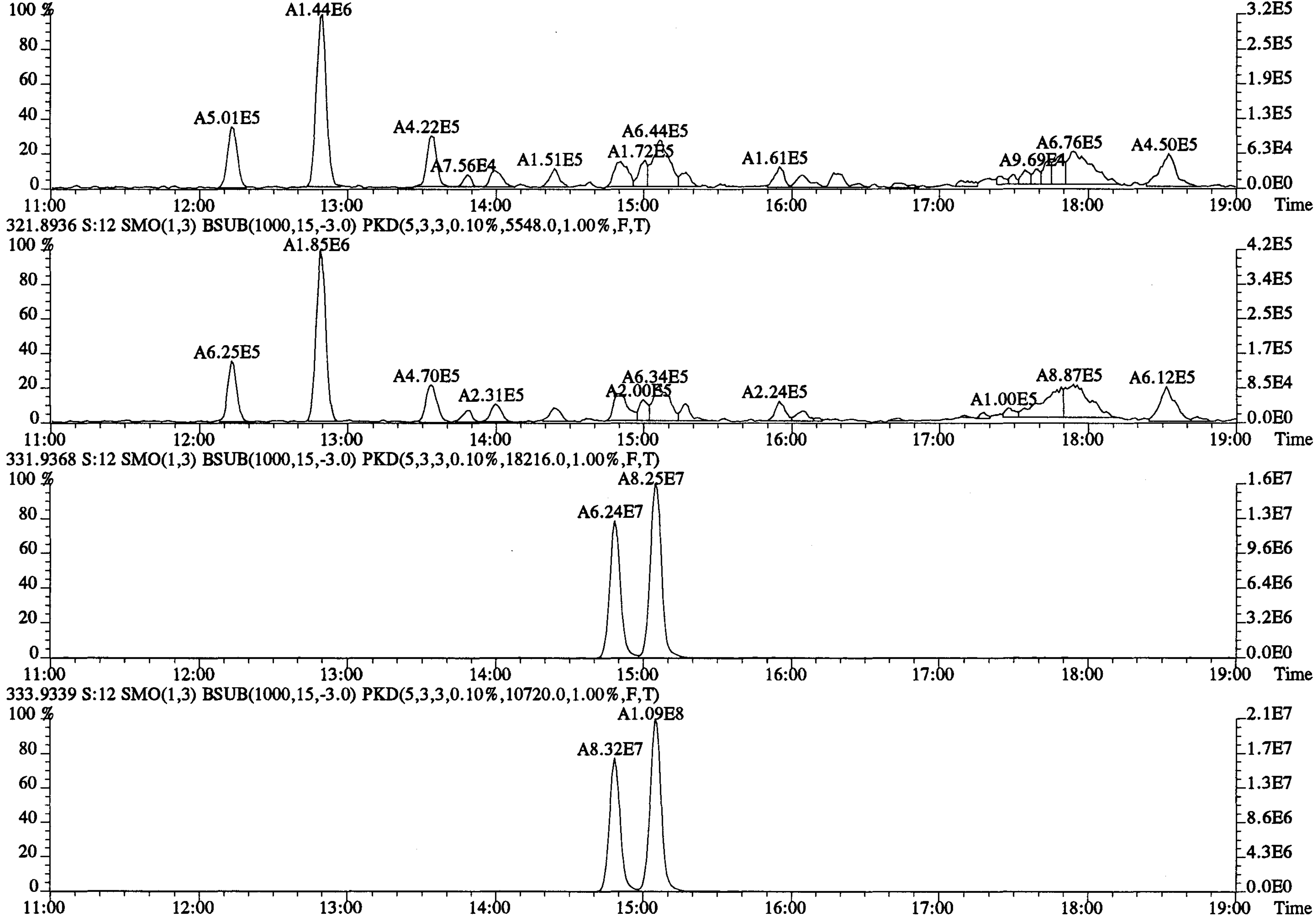
   37Cl-2,3,7,8-TCDD   84305200 1.00 y  14:50 1.46       1588.37           4.10       99.3   n
```

AK 10/20/10

File:19OC105D2 #1-1242 Acq:19-OCT-2010 16:24:27 GC EI+ Voltage SIR 70SE
Sample#12 Text:L8ALT-1-AA :G0J120429-5 Exp:DB225RES



File:19OC105D2 #1-1242 Acq:19-OCT-2010 16:24:27 GC EI+ Voltage SIR 70SE
Sample#12 Text:L8ALT-1-AA :G0J120429-5 Exp:DB225RES



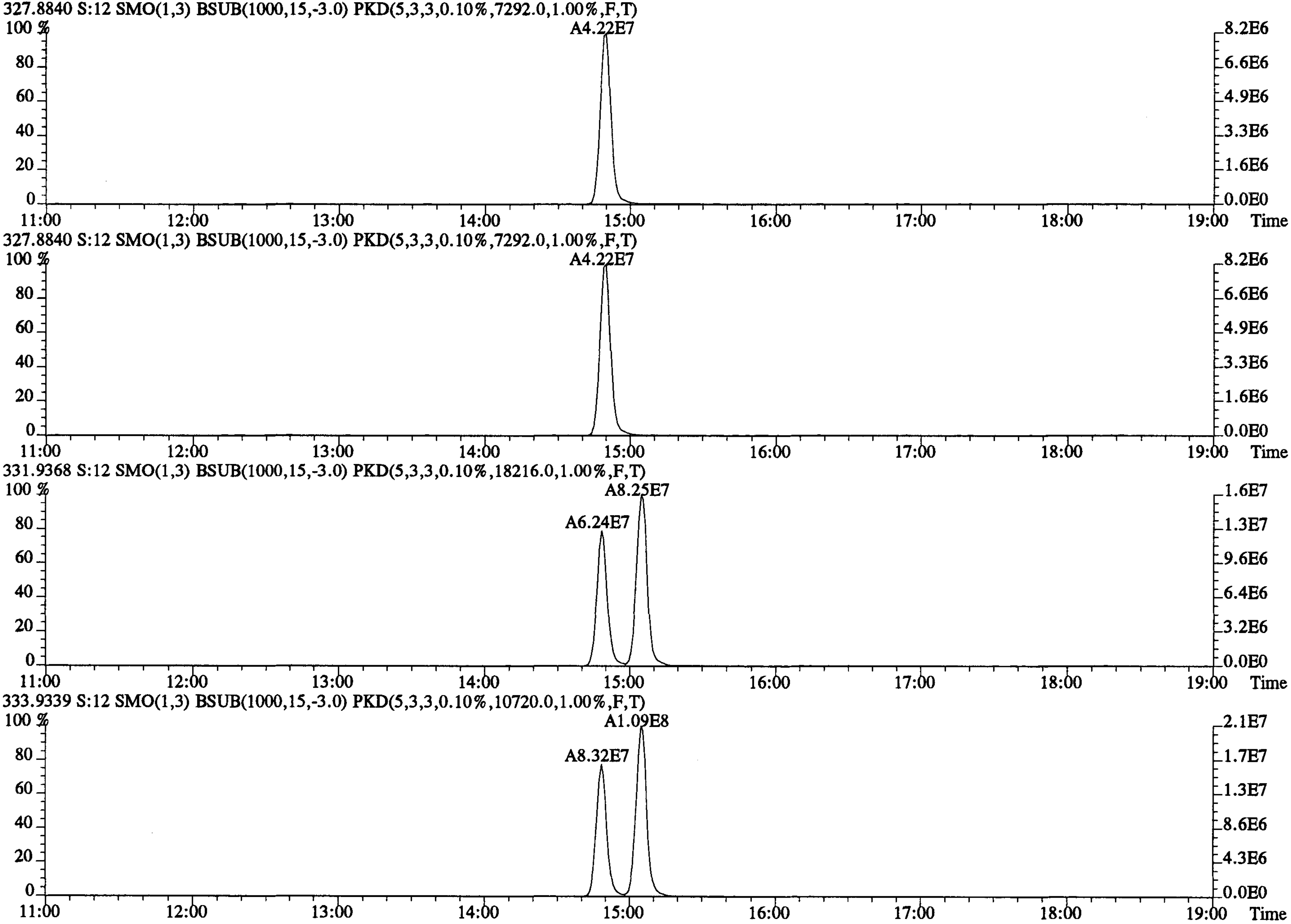
319.8965 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4476.0,1.00%,F,T)

321.8936 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5548.0,1.00%,F,T)

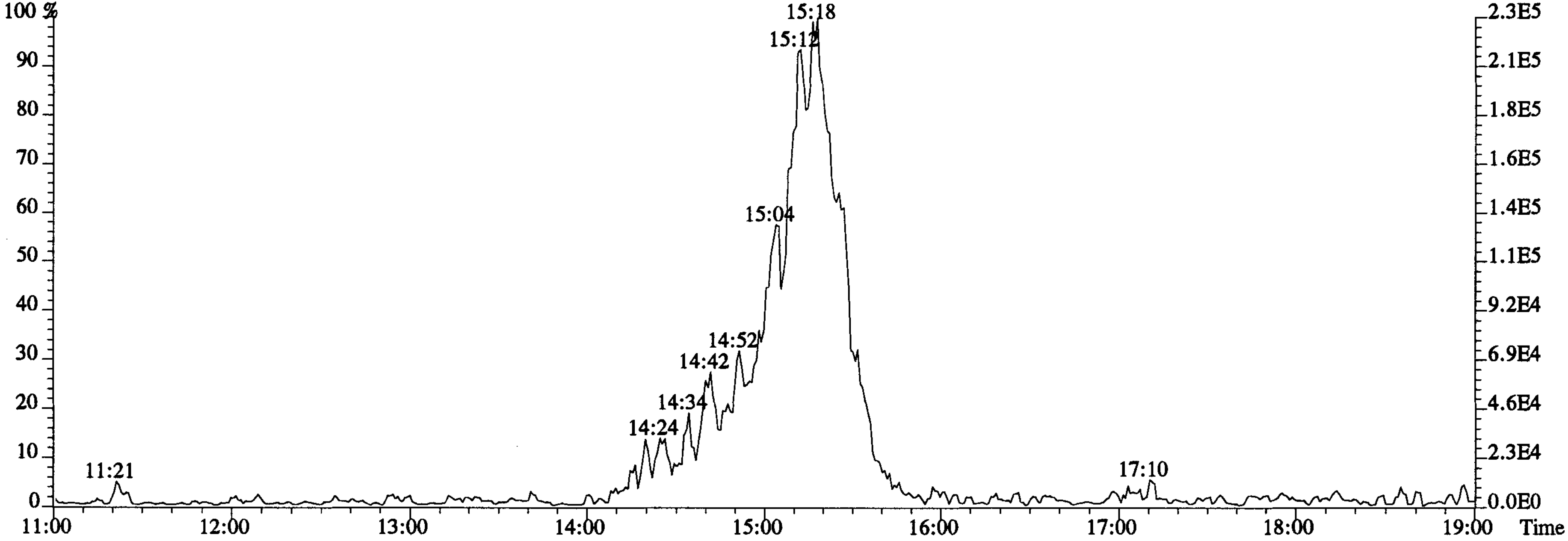
331.9368 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18216.0,1.00%,F,T)

333.9339 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10720.0,1.00%,F,T)

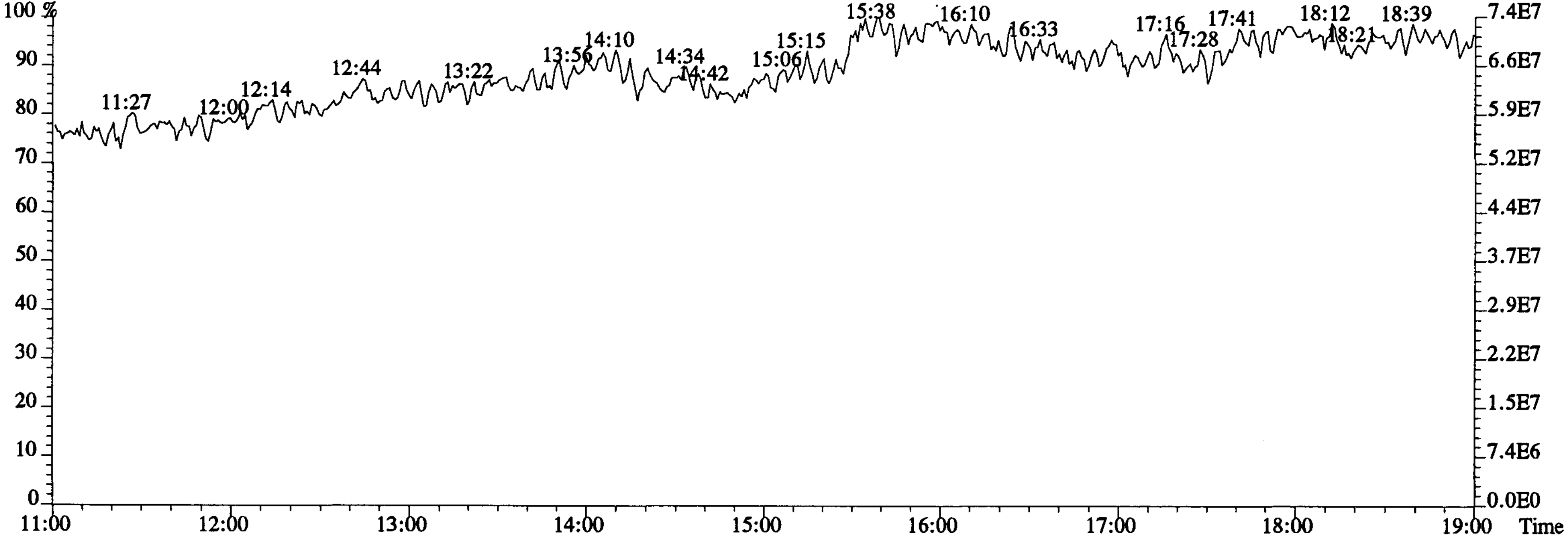
File:19OC105D2 #1-1242 Acq:19-OCT-2010 16:24:27 GC EI+ Voltage SIR 70SE
Sample#12 Text:L8ALT-1-AA :G0J120429-5 Exp:DB225RES



File:19OC105D2 #1-1242 Acq:19-OCT-2010 16:24:27 GC EI+ Voltage SIR 70SE
Sample#12 Text:L8ALT-1-AA :G0J120429-5 Exp:DB225RES
375.8364 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2812.0,1.00%,F,T)



330.9792 S:12 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test America – West Sacramento

Daily Calibration Checklist
Dioxin Methods

Method ID DB225 (TO-9)

Associated ICAL DB225AIR072610SD2R

Column ID DB225

Instrument ID 5D2

STD ID ST1019, ST1019A

STD Solution 10DKN~~426~~ 461 NK 10/19/10

Analyzed by KSS, AS

Date Analyzed 10-19-10

Std. Pkg. By NK

Date Std. Pkg. Assembled 10-19-10

Std. Pkg. Reviewed By KSS

Date Std. Pkg. Reviewed 10/20/10

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:

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* **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: ST1019                      File text: ST1019 :CS3 10DXN461
Run #6   Filename 19OC105D2   S: 2    I: 1
Acquired: 19-OCT-10   10:22:53           Processed: 19-OCT-10  15:12:23
Run: 19OC105D2    Analyte: DB225AIR     Cal: DB225AIR0726105D2R  Results: 19OC105D2DB225AIR

                   Name       Resp    RA      RT   RRF    Amount   Dev'n  Mod?
        13C-1,2,3,4-TCDD  206619800  0.78 y  15:07    -    100.00       -  n

        13C-2,3,7,8-TCDF  394874000  0.76 y  16:20  1.91   100.00    -9.5  n
            2,3,7,8-TCDF   36450900  0.76 y  16:21  0.92    10.00   -12.6  n

        13C-2,3,7,8-TCDD  191699300  0.77 y  14:50  0.93   100.00     4.9  n
            2,3,7,8-TCDD   31317900  0.79 y  14:51  1.63    10.00    -0.1  n

       37Cl-2,3,7,8-TCDD   28048200  1.00 y  14:51  1.46    10.00     0.3  n
```

```
Run text: ST1019A                      File text: CS3 10DXN461
Run #9   Filename 19OC105D2   S: 17    I: 1
Acquired: 19-OCT-10   19:25:15            Processed: 19-OCT-10  23:13:35
Run: 19OC105D2    Analyte: DB225AIR     Cal: DB225AIR0726105D2R  Results: 19OC105D2DB225AIR

                    Name       Resp    RA        RT    RRF    Amount    Dev'n  Mod?
         13C-1,2,3,4-TCDD  221896300  0.77 y  15:06      -    100.00        -  n

         13C-2,3,7,8-TCDF  414130000  0.79 y  16:20   1.87    100.00    -11.6  n
             2,3,7,8-TCDF   39694900  0.77 y  16:20   0.96     10.00     -9.2  n

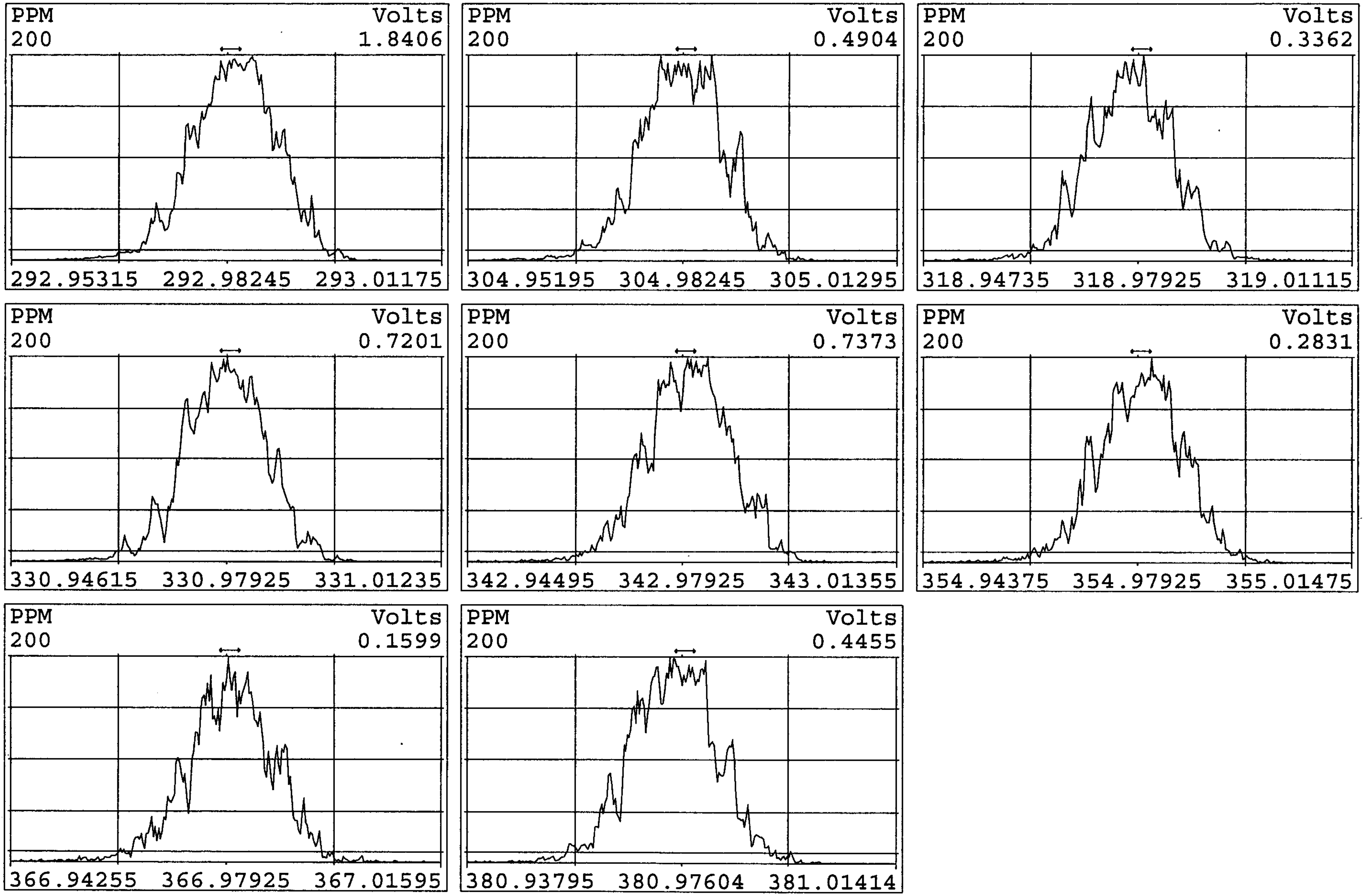
         13C-2,3,7,8-TCDD  201168800  0.75 y  14:50   0.91    100.00      2.5  n
             2,3,7,8-TCDD   31066700  0.80 y  14:51   1.54     10.00     -5.6  n

        37Cl-2,3,7,8-TCDD   27298600  1.00 y  14:51   1.36     10.00     -6.9  n
```

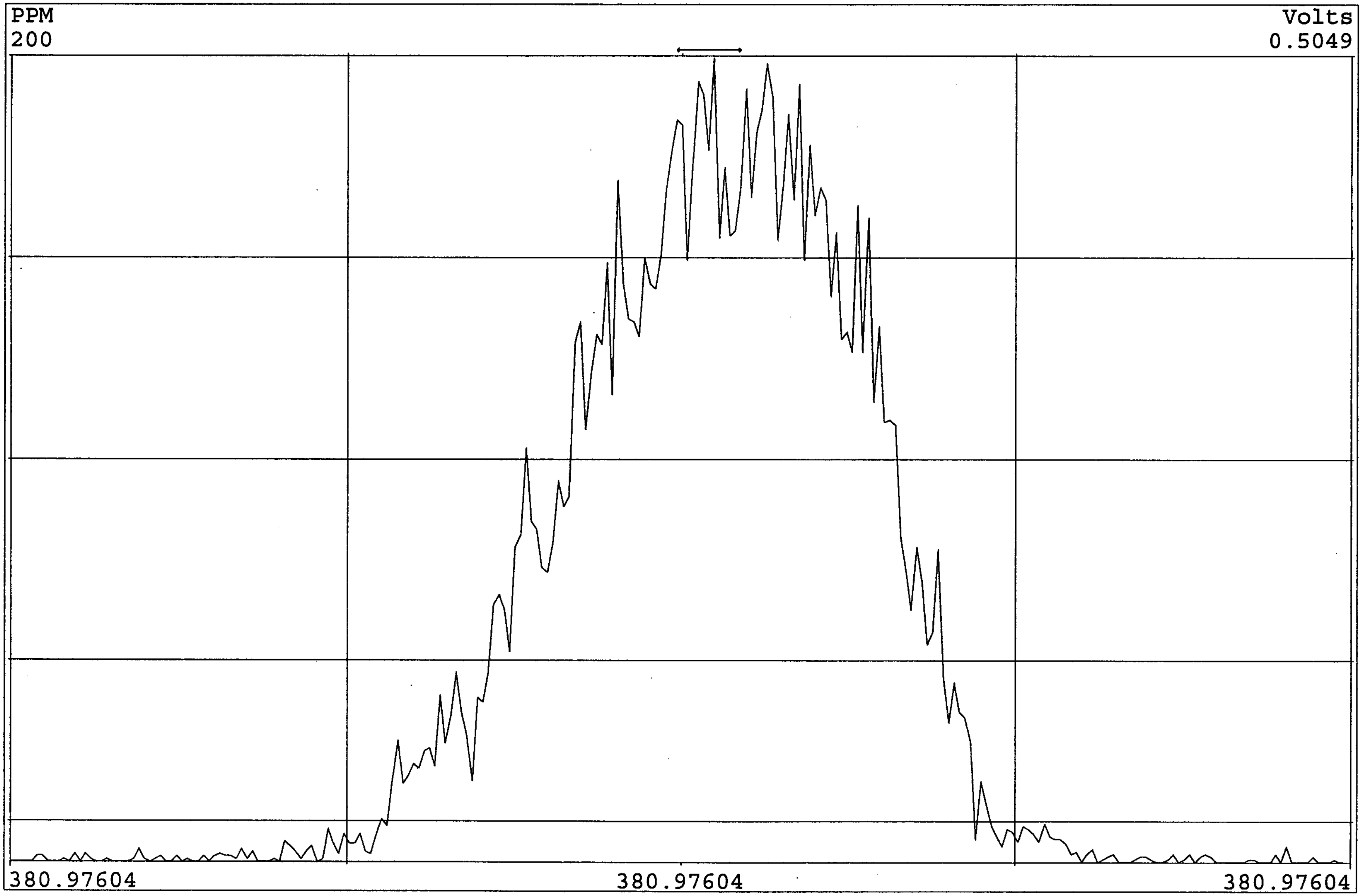
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
19OC105D2	1	CP1019	DB-225 CPSM 3732-06				1.0000	
19OC105D2	2	ST1019	CS3 10DXN461				1.0000	
19OC105D2	3	SB1019	Solvent Blank C-14				1.0000	
19OC105D2	4	L7G4A-1-AA	G0I240597-2	20	8290/SOLID	60	10.1900	g
19OC105D2	5	L7A60-1-AD	G0I220545-6	20	8290/SOLID	63	10.1800	g
19OC105D2	6	L7A64-1-AD	G0I220545-8	20	8290/SOLID		10.3400	g
19OC105D2	7	L7A65-1-AD	G0I220545-9	20	8290/SOLID		10.5900	g
19OC105D2	8	L7G4F-1-AA	G0I240597-5	20	8290/SOLID	60	10.0900	g
19OC105D2	9	ONHOL-D-01	G0I020531-9 (ON HOLD)	10	8290/SOLID	62	10.0700	g
19OC105D2	10	ONHOL-D-02	G0I020531-9MS (ON HOLD)	10	8290/SOLID		10.5700	g
19OC105D2	11	ONHOL-D-03	G0I020531-9MSD (ON HOLD)	10	8290/SOLID		10.4300	g
19OC105D2	12	L8ALT-1-AA	G0J120429-5	20	TO9/AIR	81	0.5000	SAM
19OC105D2	13	L7L26-1-AC	G0I280537-1 (5X)	20	8290/SOLID	74	10.1400	g
19OC105D2	14	L8DD8-1-AC	G0J130426-1	10	8290/SOLID		10.3000	g
19OC105D2	15	L8DEG-1-AC	G0J130426-2	10	8290/SOLID		10.4300	g
19OC105D2	16	SB1019A	Solvent Blank C-14				1.0000	
19OC105D2	17	ST1019A	CS3 10DXN461				1.0000	
19OC105D2	18	CP1019A	DB-225 CPSM 3732-06				1.0000	
19OC105D2	19	CP1019B	DB-225 CPSM 3732-06				1.0000	
19OC105D2	20	SB1019B	Solvent Blank C-14				1.0000	
19OC105D2	21	L7H38-1-AA	G0I250530-4	20	8290/SOLID	64	10.0700	g
19OC105D2	22	L7H39-1-AA	G0I250530-5	20	8290/SOLID		10.6000	g
19OC105D2	23	L7WPH-1-AA	G0J020454-1	20	8290/SOLID	74	10.0100	g
OC105D2	24	L7WPM-1-AA	G0J020454-2	20	8290/SOLID		9.9100	g
19OC105D2	25	SB1019C	Solvent Blank C-14				1.0000	
19OC105D2	26	ST1019B	CS3 10DXN461				1.0000	
19OC105D2	27						1.0000	
19OC105D2	28						1.0000	
19OC105D2	29		KSS,AS 10/19/10				1.0000	

log file v'd
NK 10/19/10

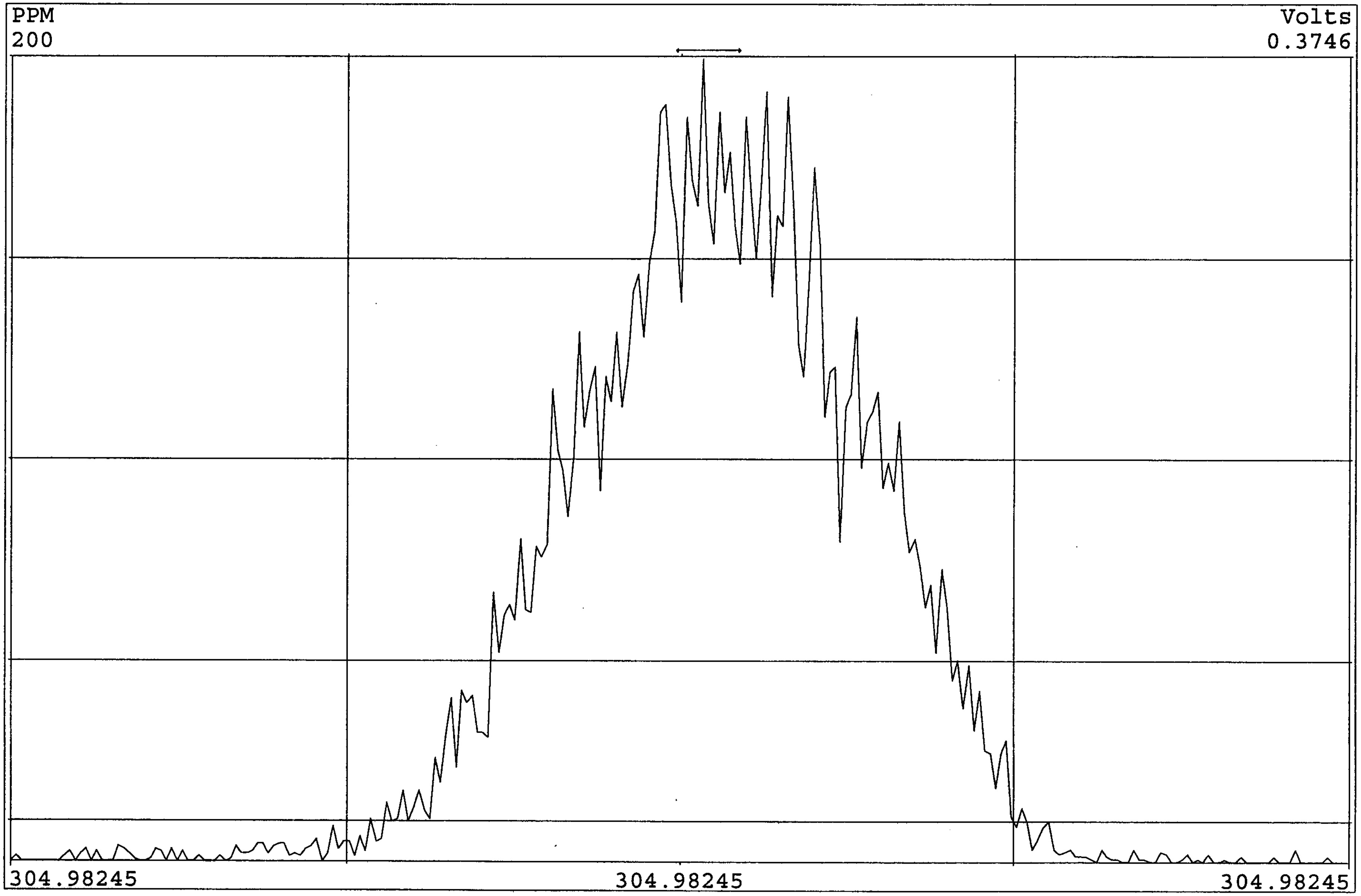
Peak Locate Examination:19-OCT-2010:09:45 File:19OC105D2
Experiment:DB225RES Function:1 Reference:PFK



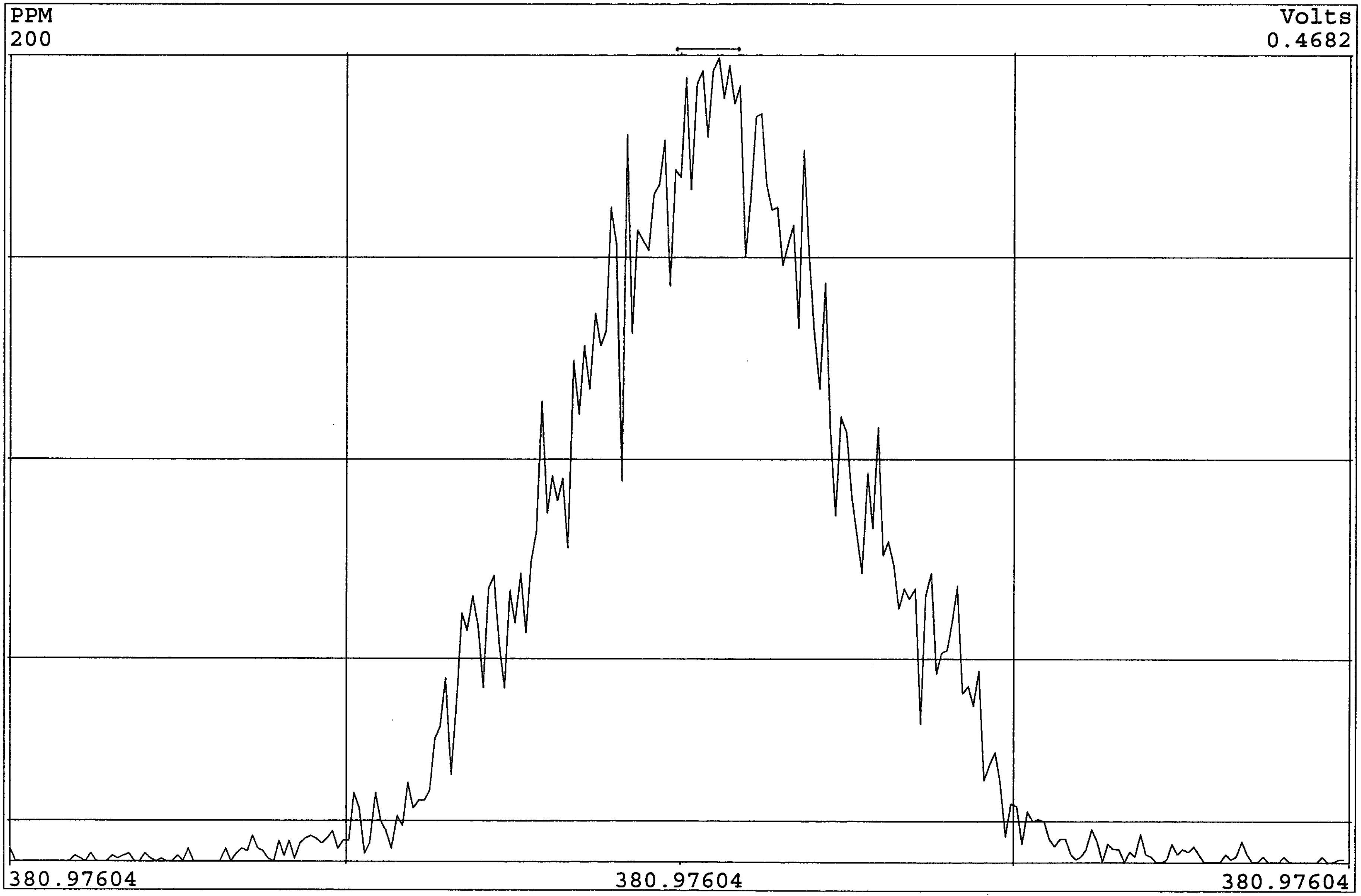
SIRLM Examination:19-OCT-2010:19:15 File:19OC105D2
Experiment:DB225RES Function:2

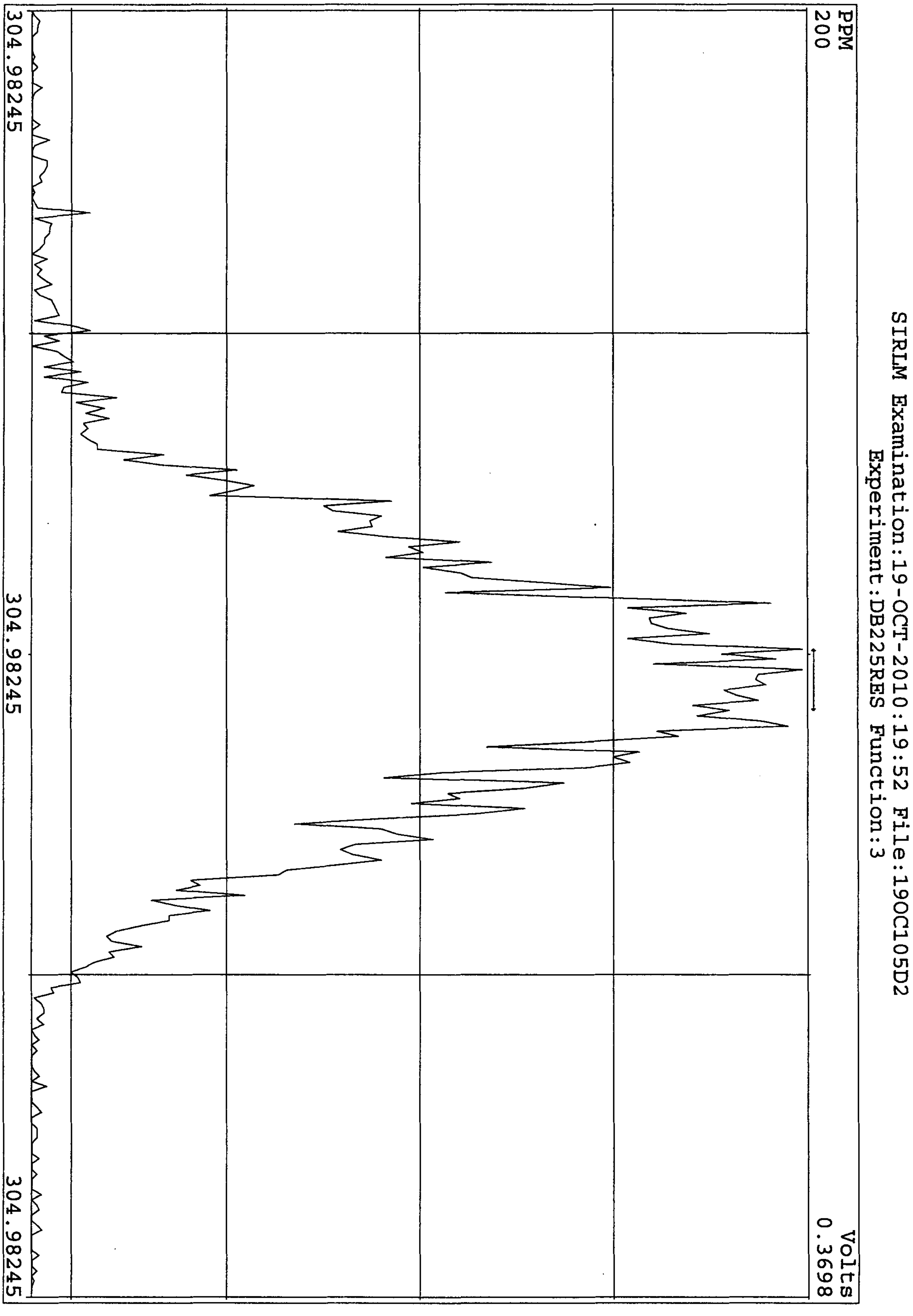


SIRLM Examination:19-OCT-2010:19:16 File:19OC105D2
Experiment:DB225RES Function:3

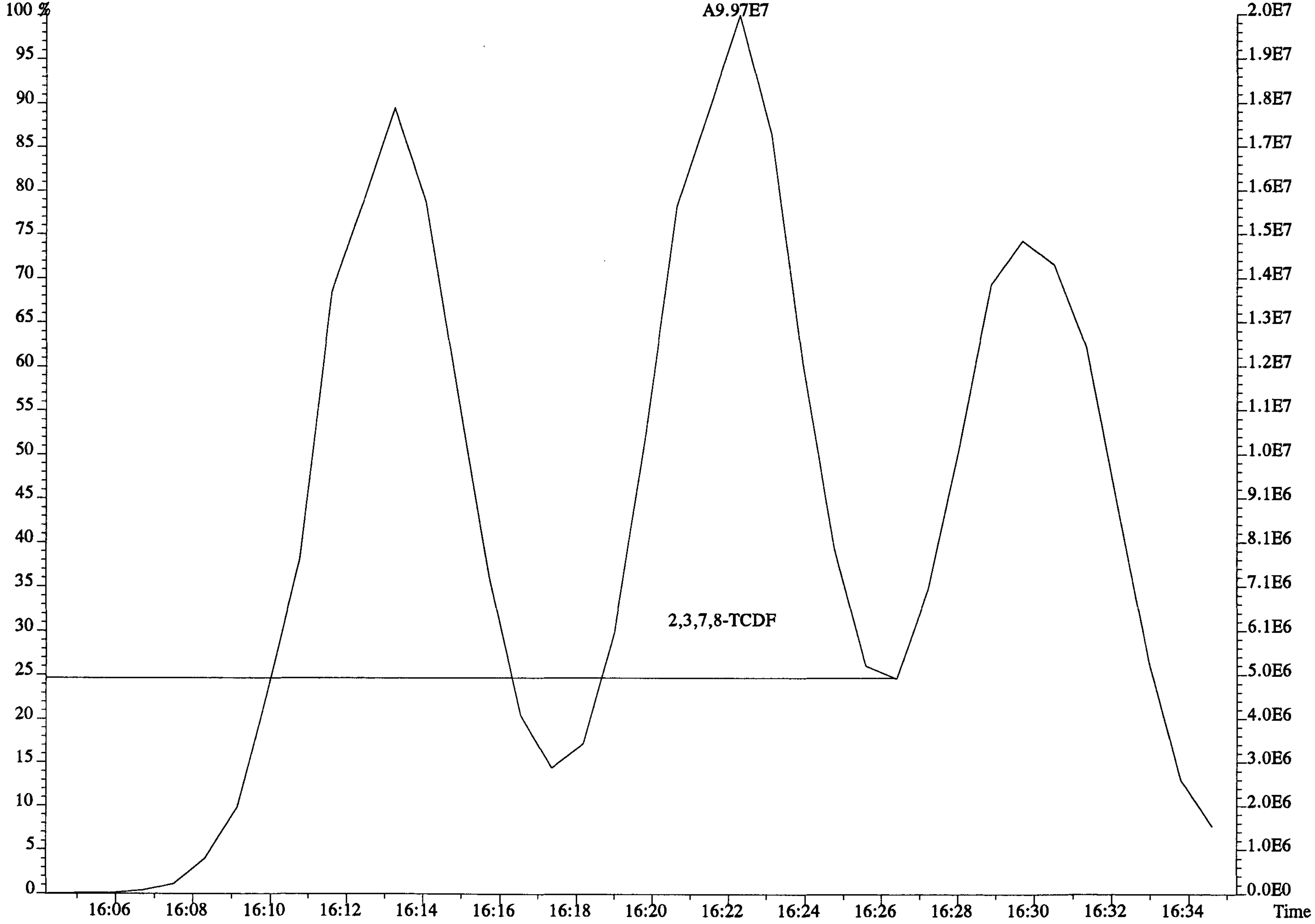


SIRLM Examination:19-OCT-2010:19:50 File:19OC105D2
Experiment:DB225RES Function:2




SIRLM Examination:19-OCT-2010:19:52 File:19OC105D2
Experiment:DB225RES Function:3
PPM
200
Volts
0.3698
304.98245
304.98245
304.98245

File:19OC105D2 #1-1242 Acq:19-OCT-2010 09:46:41 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1019 :DB-225 CPSM 3732-06 Exp:DB225RES
303.9016 BSUB(128,15,-3.0)



```
Run: 19OC105D2    Analyte: DB225AIR      Cal: DB225AIR0726105D2R

     ST0726A :CS-1 10DXN342 RI    ST0726B :CS-2 10DXN335       ST0726C :CS-3 10DXN336
     ST0726E :CS-4 10DXN337       ST0726D :CS-5 10DXN339

                                                  26JL105D2 26JL105D2 26JL105D2 26JL105D2 26JL105D2
                                                    S6        S5        S7        S9        S8
                Name     Mean    S. D.      %RSD    RRF1      RRF2      RRF3      RRF4      RRF5
     13C-1,2,3,4-TCDD       -        -       - %       -         -         -         -         -

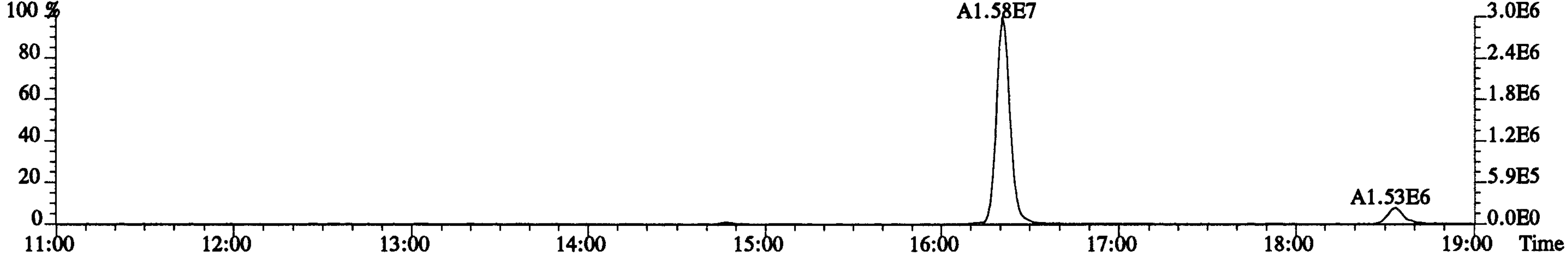
     13C-2,3,7,8-TCDF    2.111    0.055    2.59 %    2.14      2.09      2.12      2.03      2.18
         2,3,7,8-TCDF    1.056    0.035    3.32 %    1.11      1.04      1.02      1.06      1.04

     13C-2,3,7,8-TCDD    0.885    0.025    2.78 %    0.91      0.87      0.91      0.86      0.87
         2,3,7,8-TCDD    1.636    0.024    1.44 %    1.64      1.67      1.61      1.63      1.62

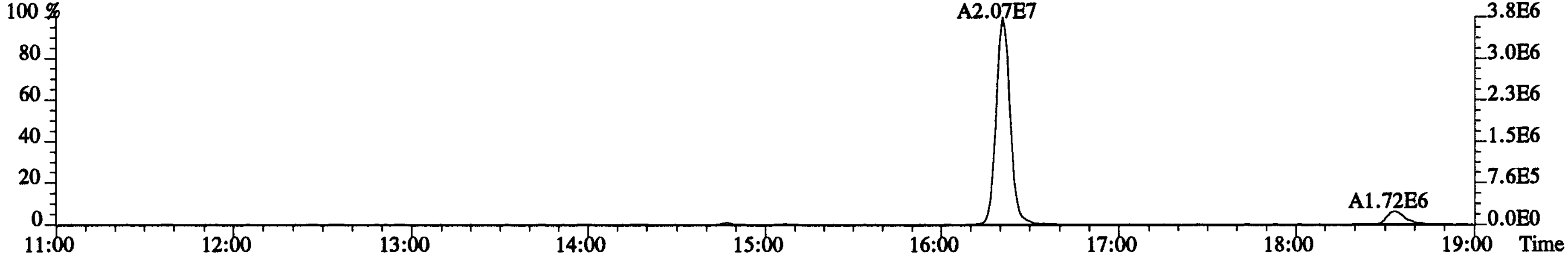
    37Cl-2,3,7,8-TCDD    1.458    0.044    3.01 %    1.40      1.42      1.47      1.49      1.50
```

File:19OC105D2 #1-1242 Acq:19-OCT-2010 10:22:53 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1019 :CS3 10DXN461 Exp:DB225RES

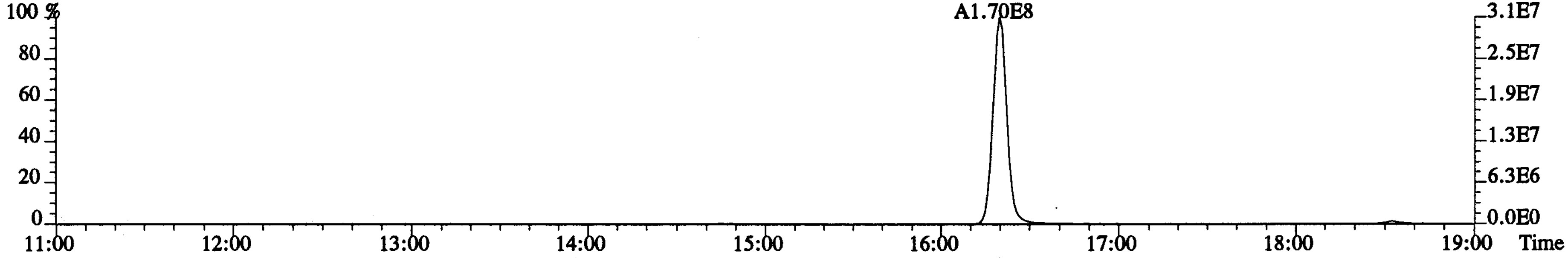
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4084.0,1.00%,F,T)



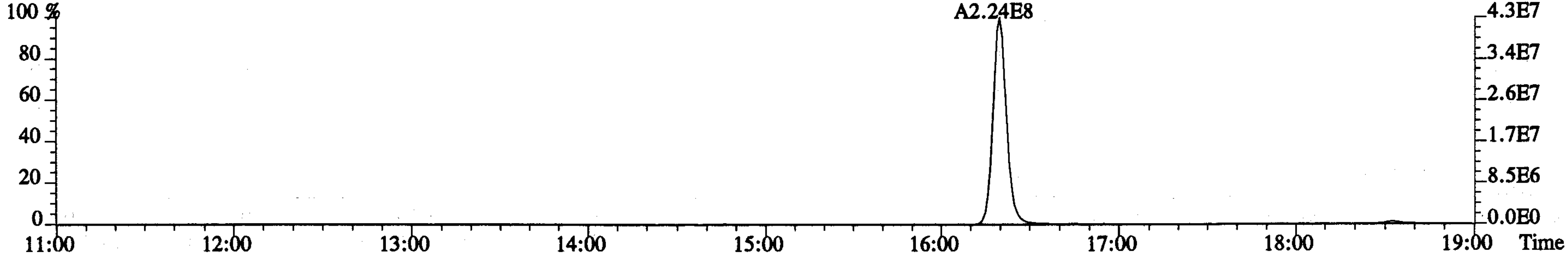
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5708.0,1.00%,F,T)



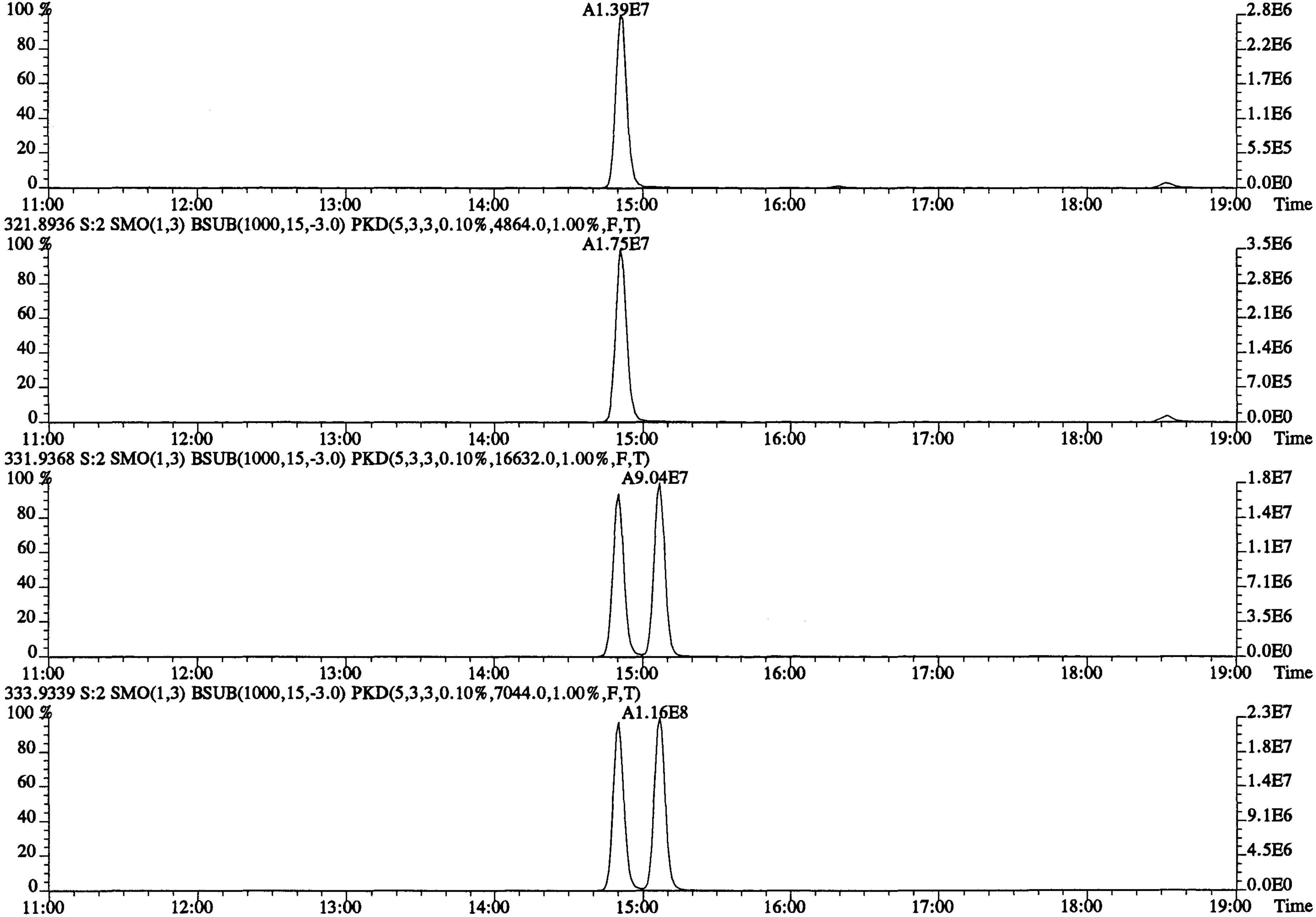
315.9419 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13892.0,1.00%,F,T)



317.9389 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12876.0,1.00%,F,T)

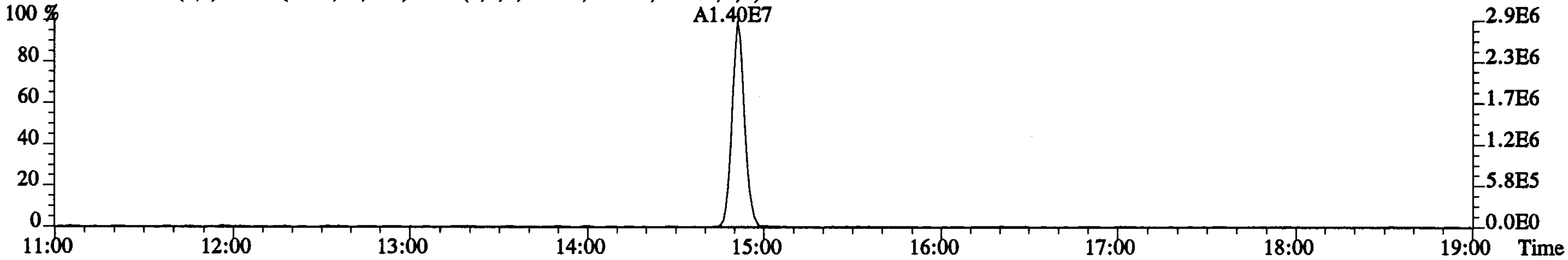


File:19OC105D2 #1-1242 Acq:19-OCT-2010 10:22:53 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1019 :CS3 10DXN461 Exp:DB225RES
319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3736.0,1.00%,F,T)

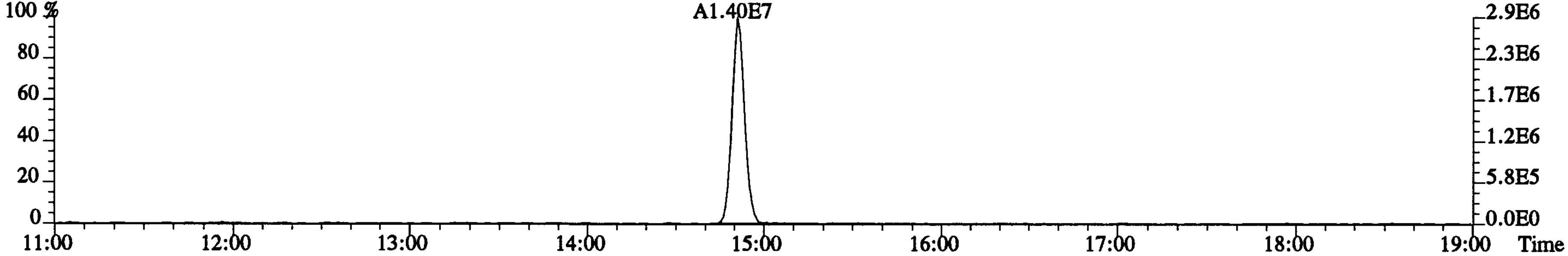


File:19OC105D2 #1-1242 Acq:19-OCT-2010 10:22:53 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1019 :CS3 10DXN461 Exp:DB225RES

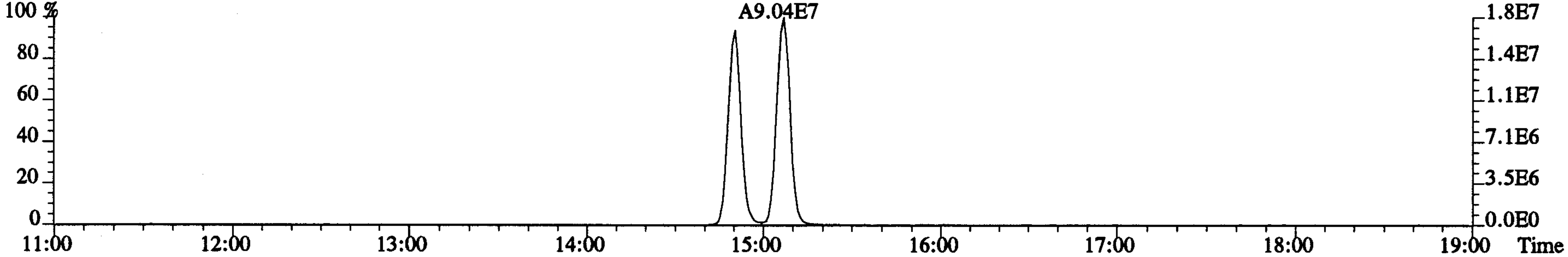
327.8840 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5512.0,1.00%,F,T)



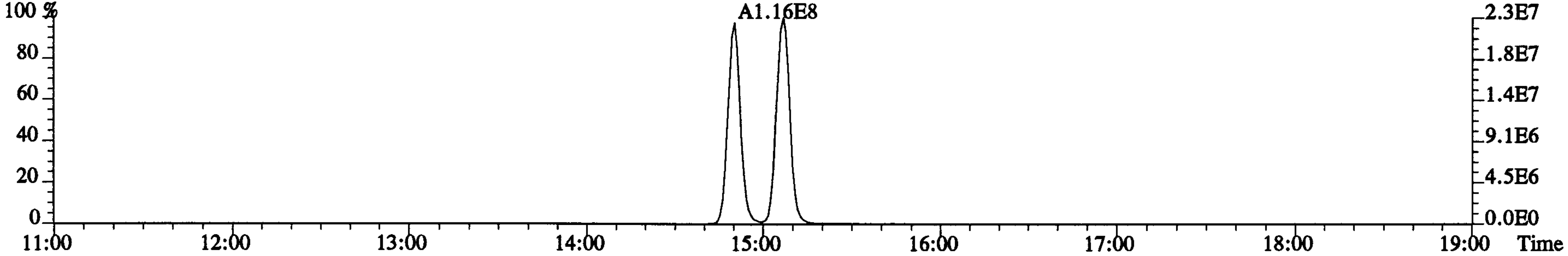
327.8840 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5512.0,1.00%,F,T)



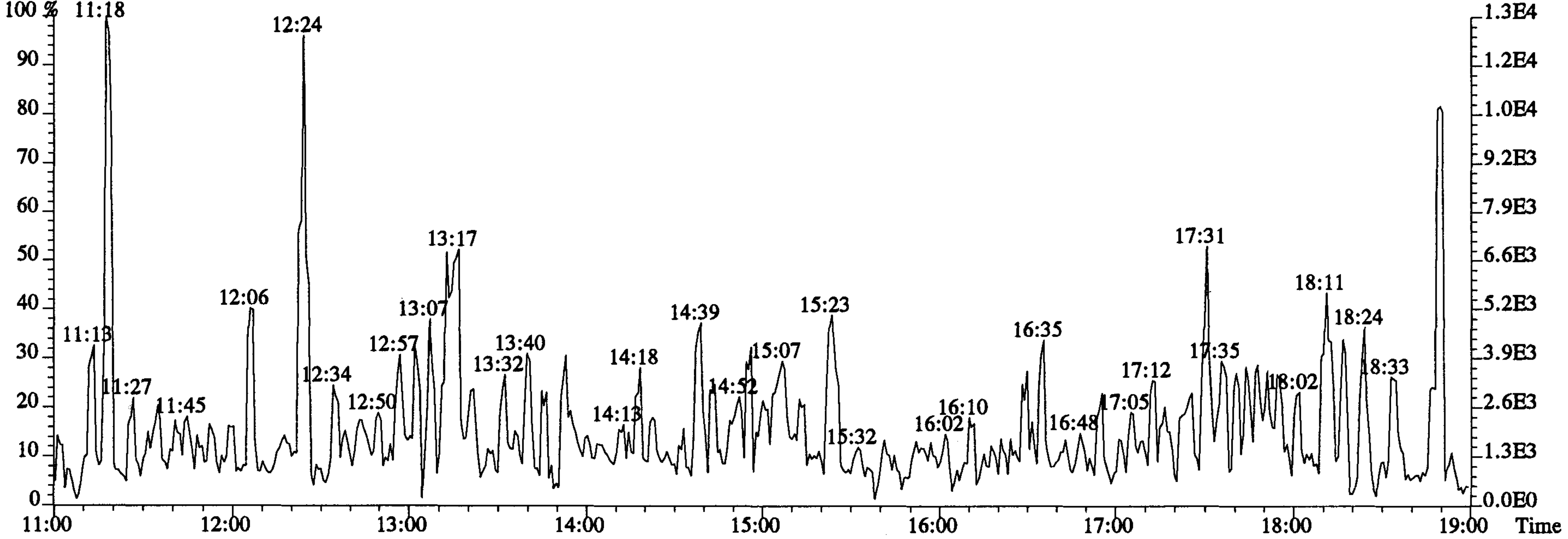
331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16632.0,1.00%,F,T)



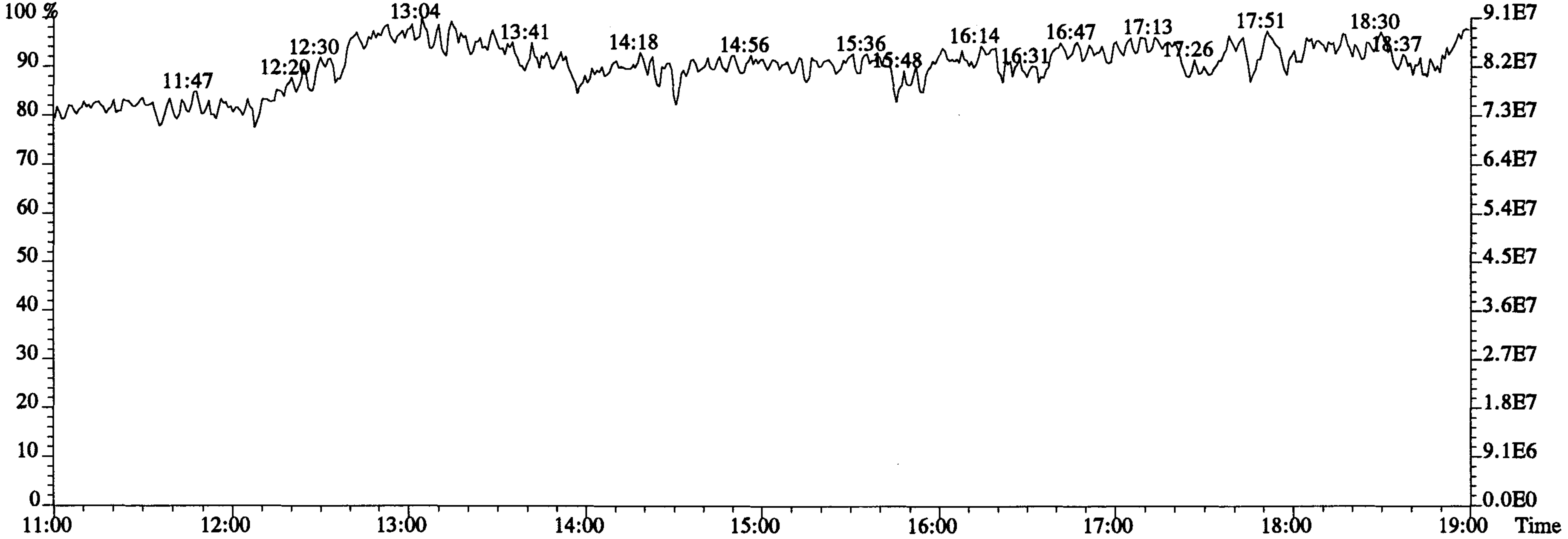
333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7044.0,1.00%,F,T)



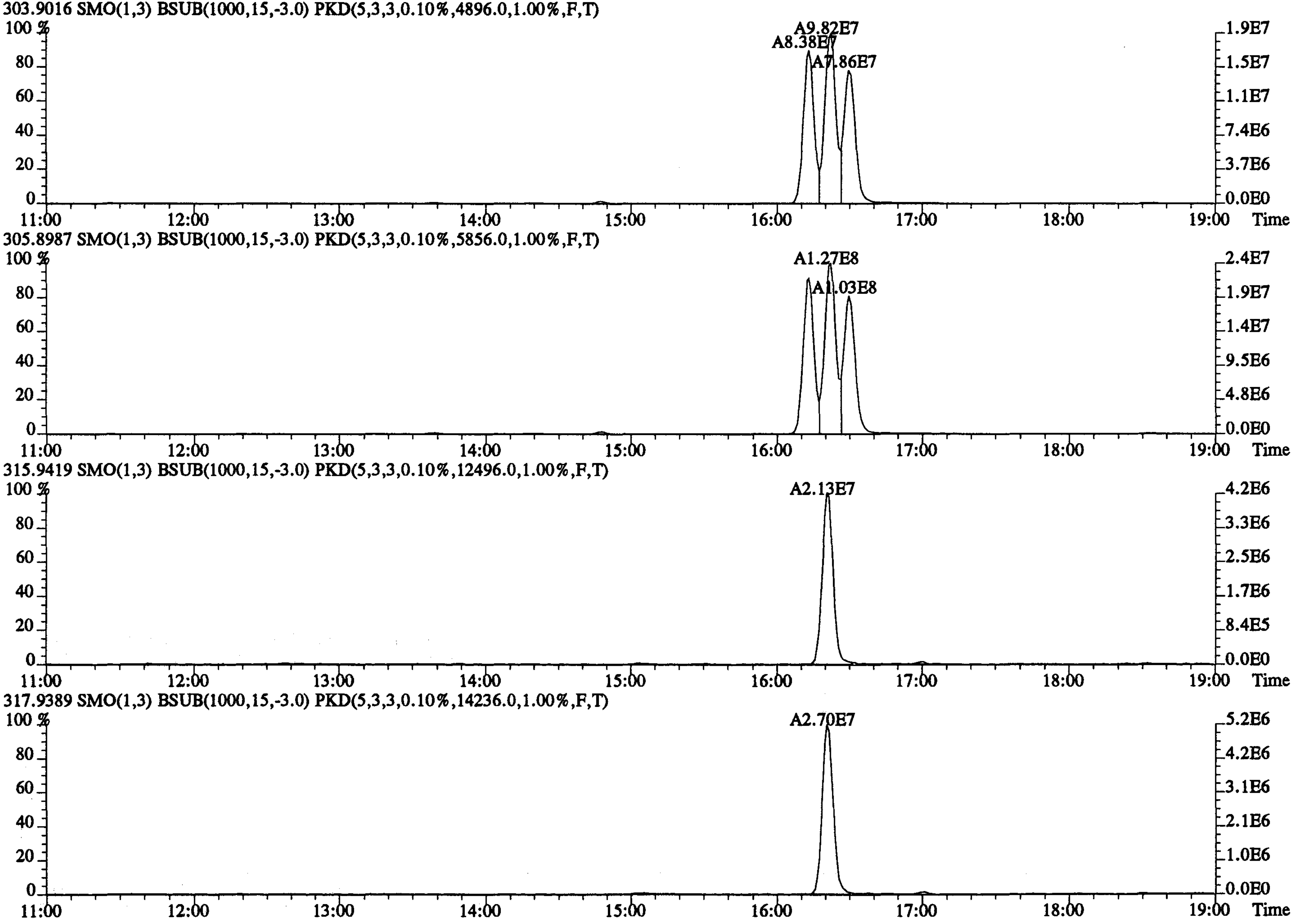
File:19OC105D2 #1-1242 Acq:19-OCT-2010 10:22:53 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1019 :CS3 10DXN461 Exp:DB225RES
375.8364 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1644.0,1.00%,F,T)



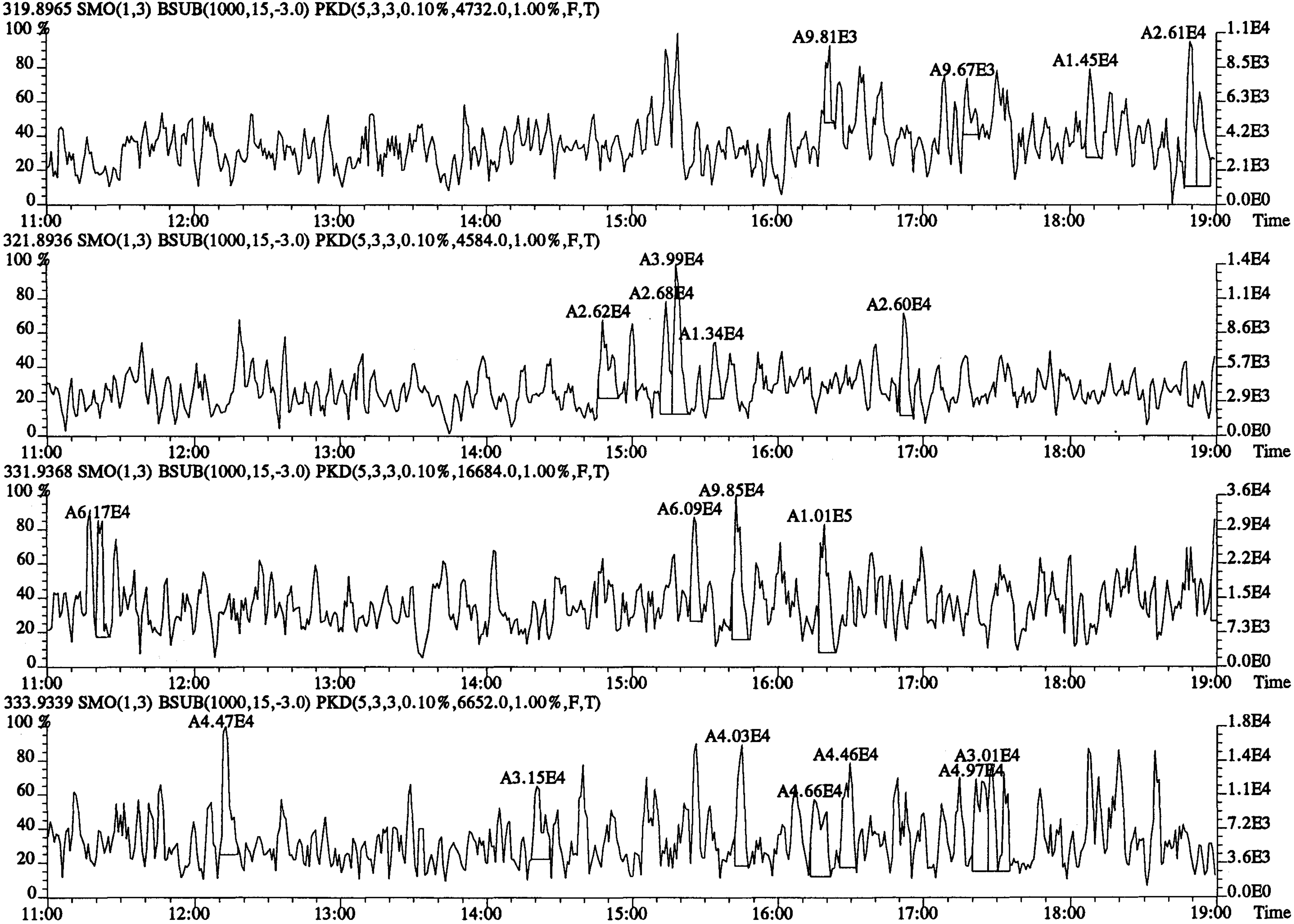
330.9792 S:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:19OC105D2 #1-1242 Acq:19-OCT-2010 09:46:41 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1019 :DB-225 CPSM 3732-06 Exp:DB225RES

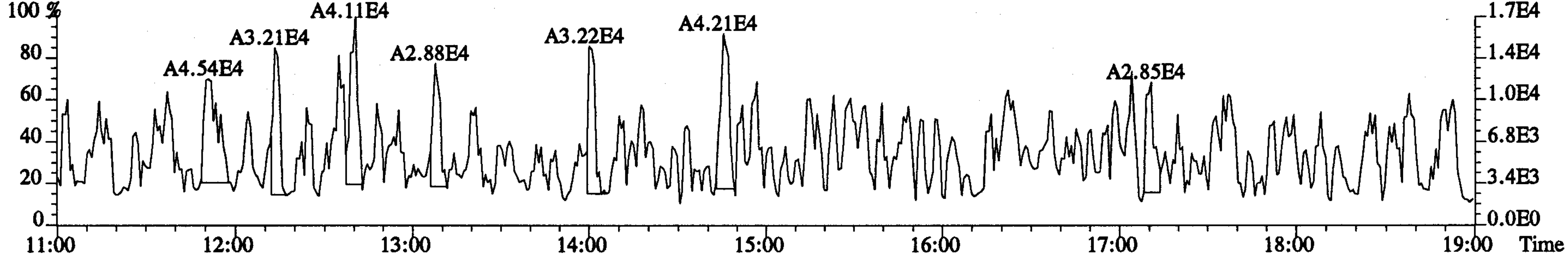


File:19OC105D2 #1-1242 Acq:19-OCT-2010 09:46:41 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1019 :DB-225 CPSM 3732-06 Exp:DB225RES

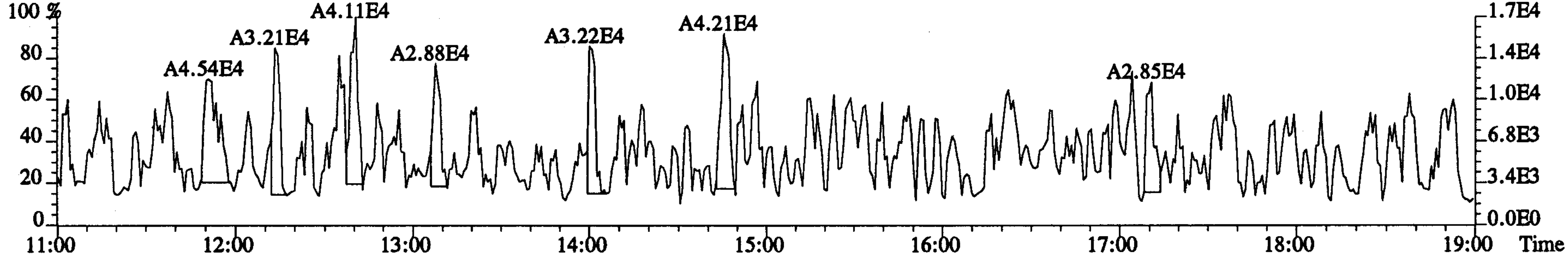


File:19OC105D2 #1-1242 Acq:19-OCT-2010 09:46:41 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1019 :DB-225 CPSM 3732-06 Exp:DB225RES

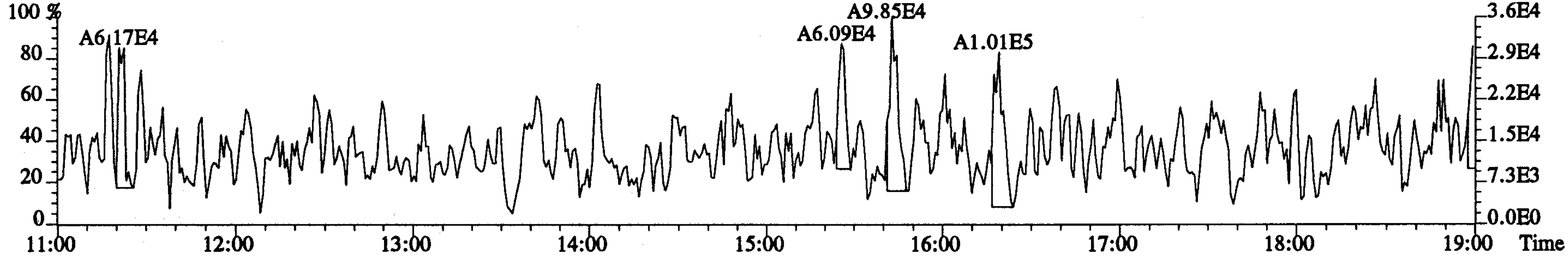
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6868.0,1.00%,F,T)



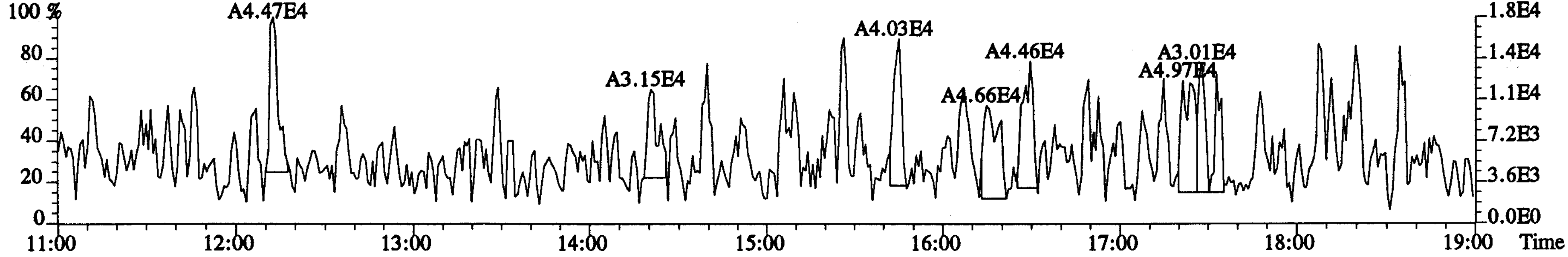
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6868.0,1.00%,F,T)



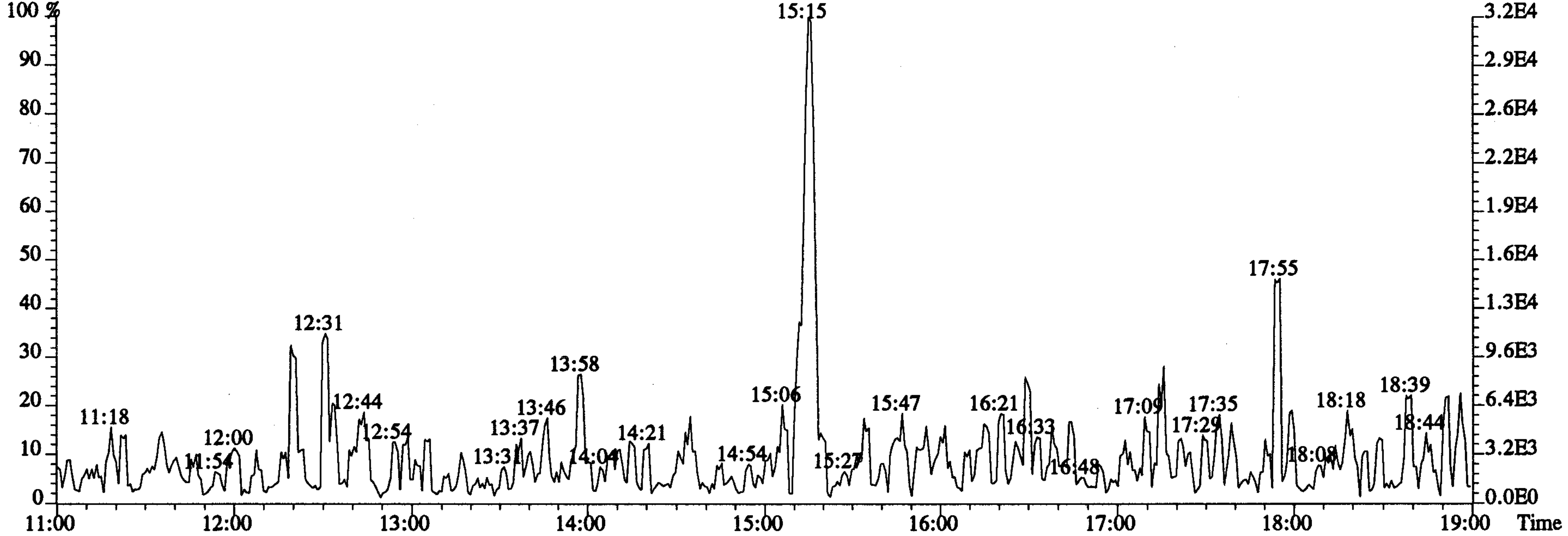
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16684.0,1.00%,F,T)



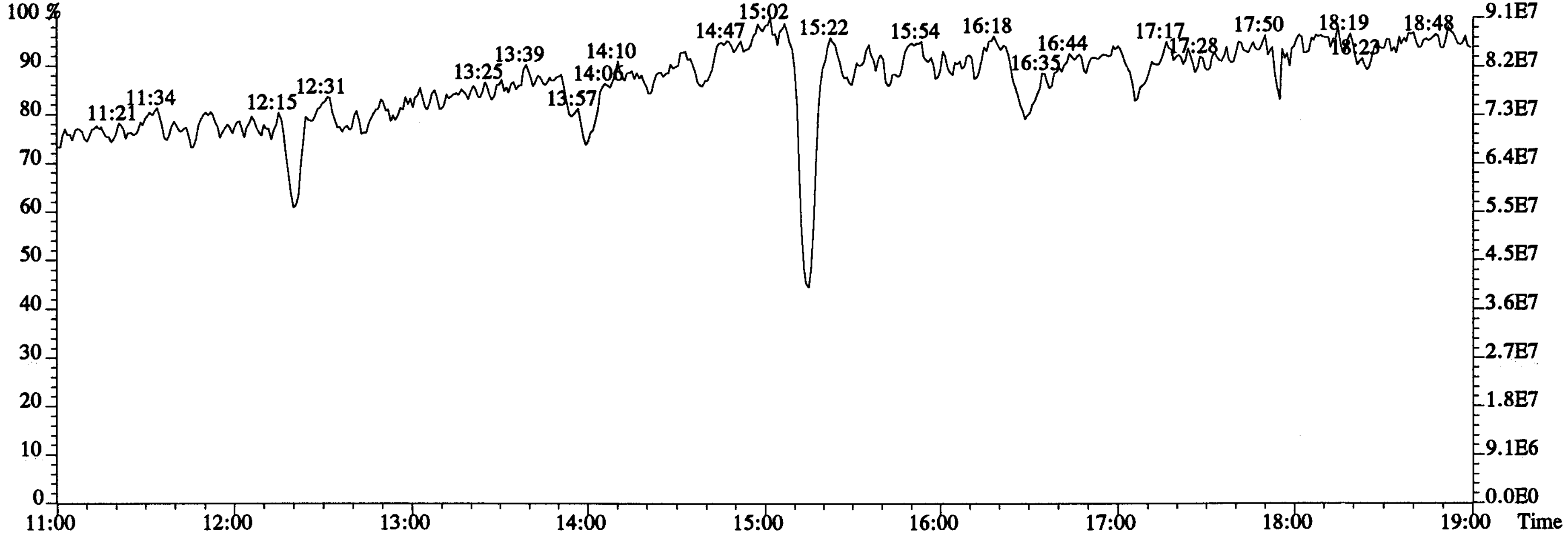
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6652.0,1.00%,F,T)



File:19OC105D2 #1-1242 Acq:19-OCT-2010 09:46:41 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP1019 :DB-225 CPSM 3732-06 Exp:DB225RES
375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1676.0,1.00%,F,T)

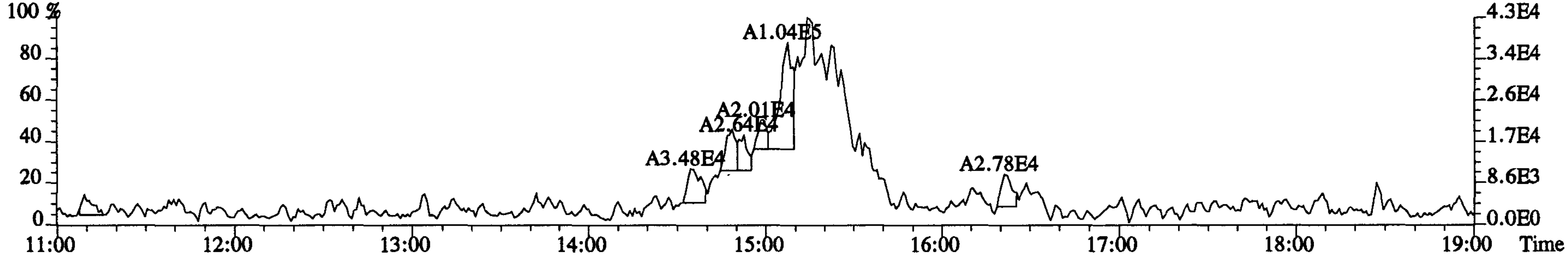


330.9792 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

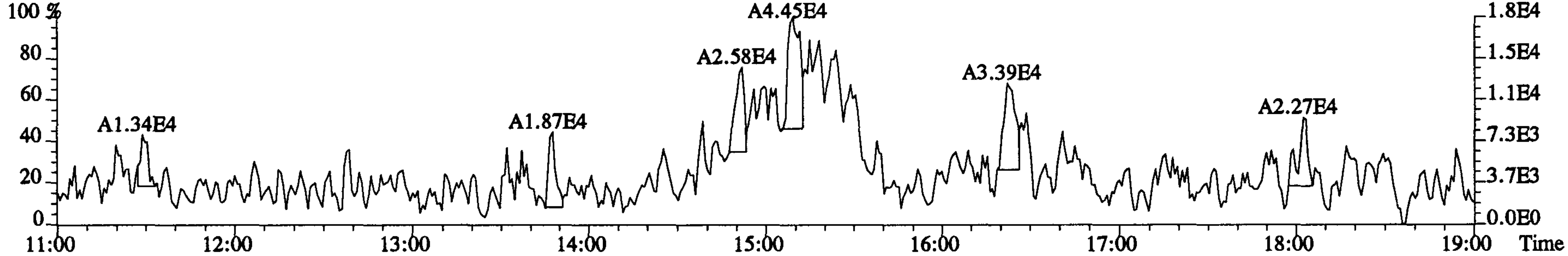


File:19OC105D2 #1-1242 Acq:19-OCT-2010 10:58:59 GC EI+ Voltage SIR 70SE
Sample#3 Text:SB1019 :Solvent Blank C-14 Exp:DB225RES

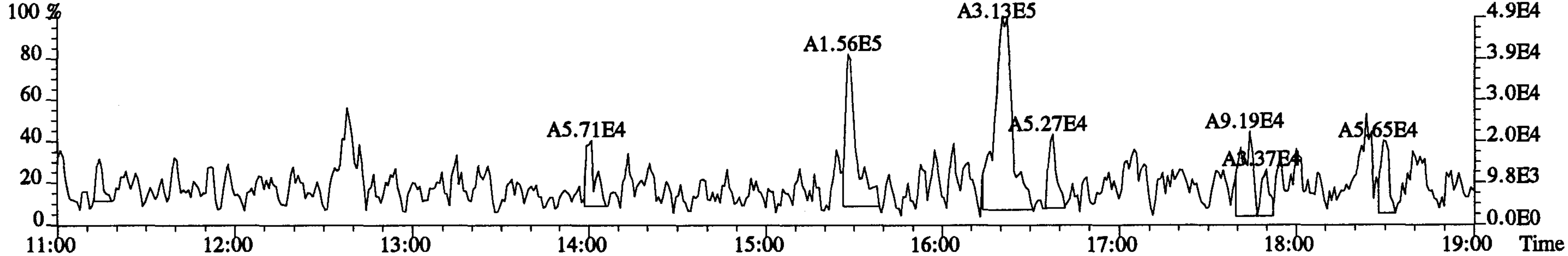
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3940.0,1.00%,F,T)



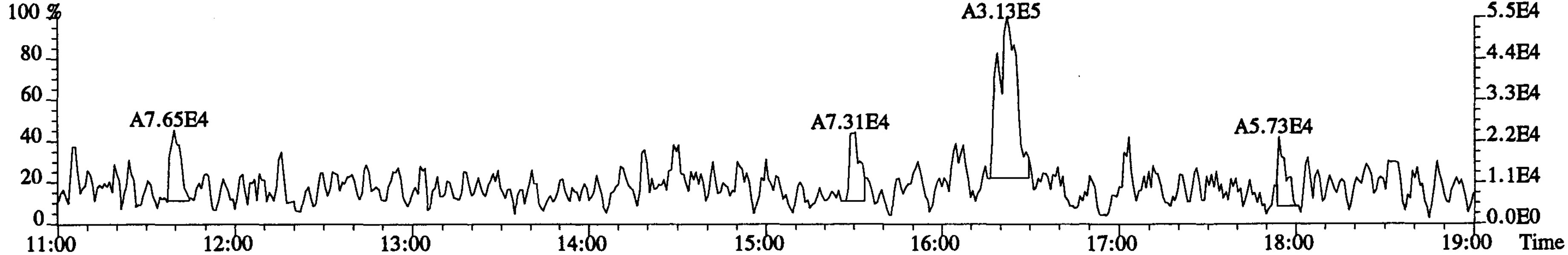
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4584.0,1.00%,F,T)



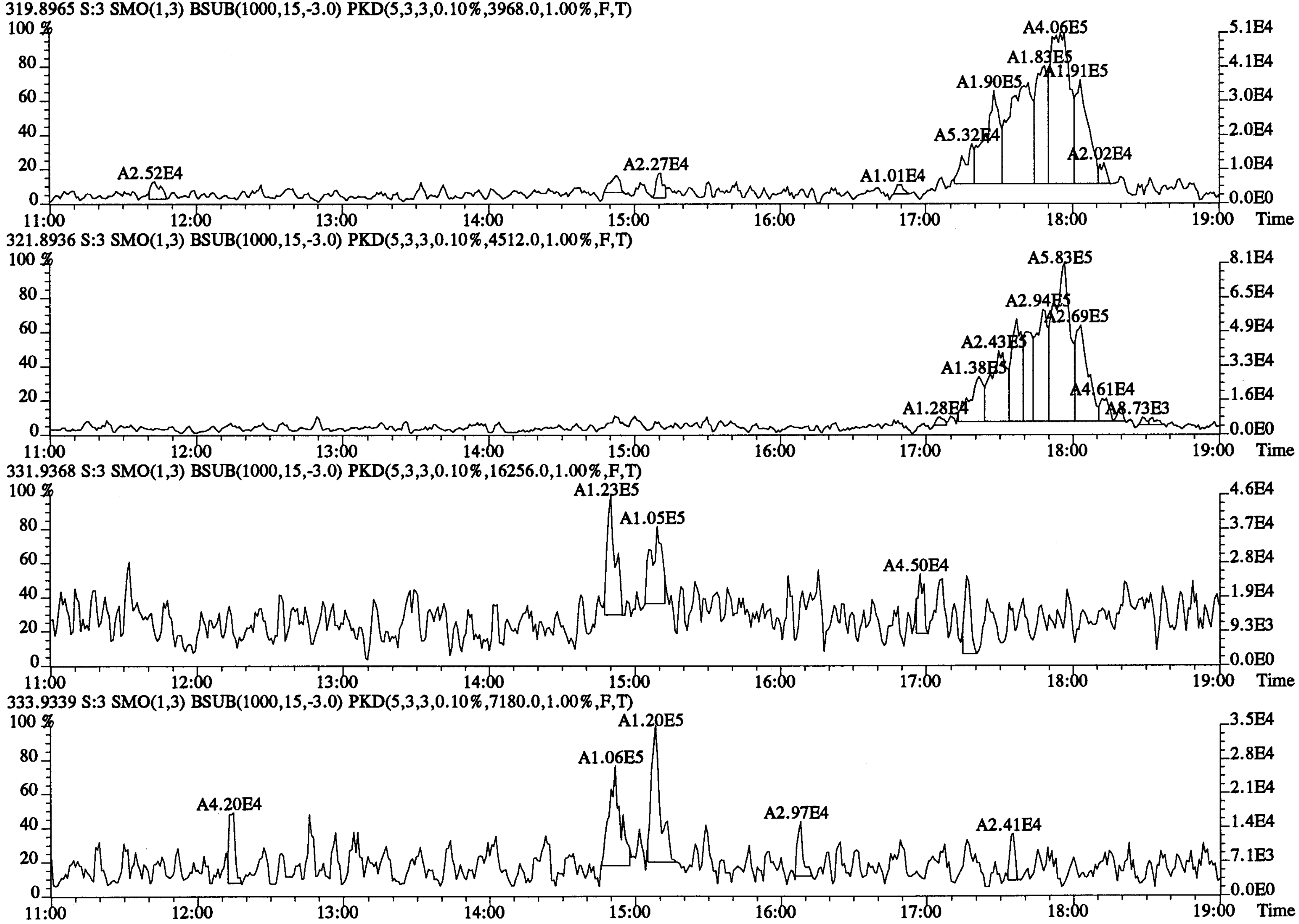
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10836.0,1.00%,F,T)



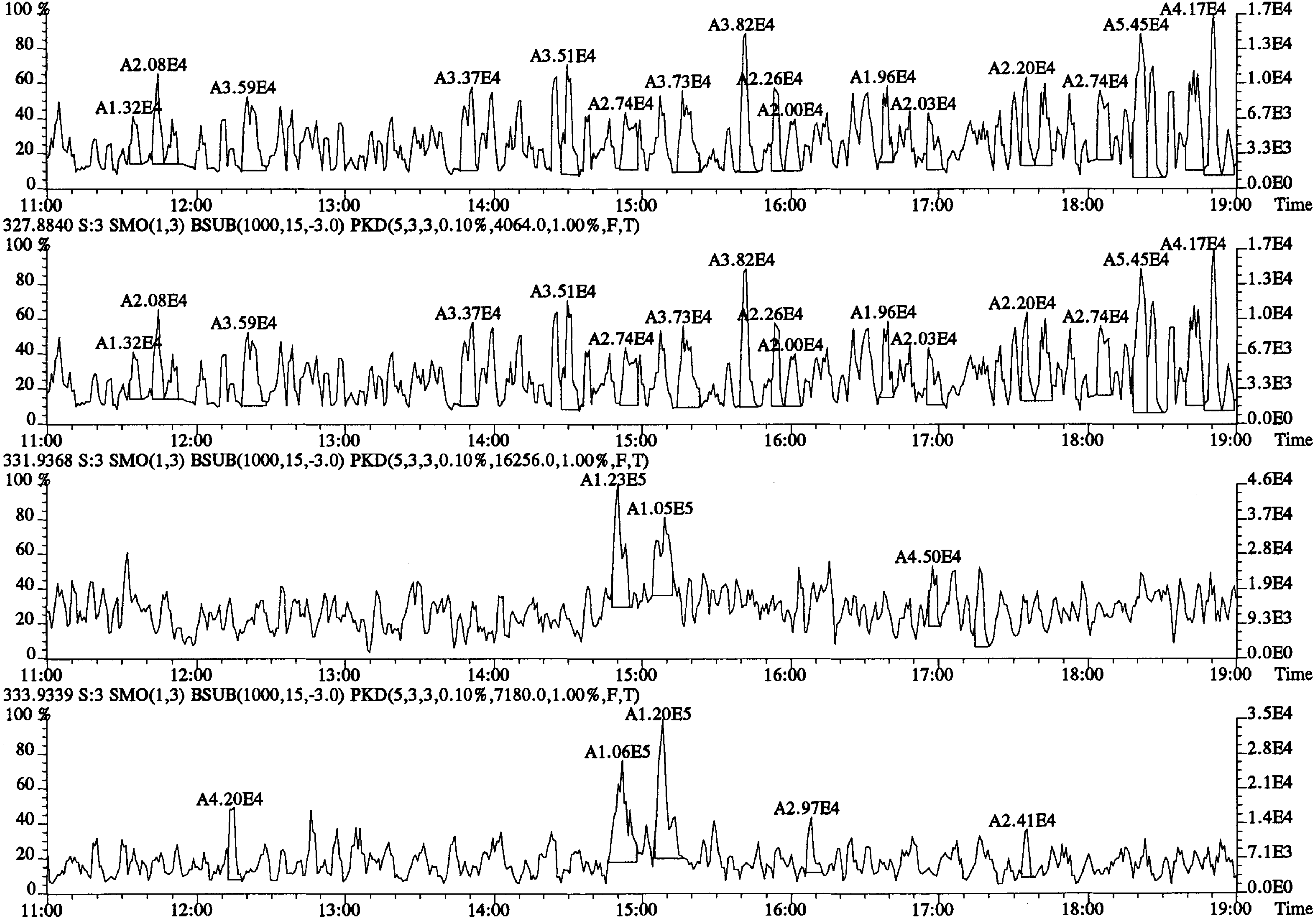
317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12604.0,1.00%,F,T)



File:19OC105D2 #1-1242 Acq:19-OCT-2010 10:58:59 GC EI+ Voltage SIR 70SE
Sample#3 Text:SB1019 :Solvent Blank C-14 Exp:DB225RES



File:19OC105D2 #1-1242 Acq:19-OCT-2010 10:58:59 GC EI+ Voltage SIR 70SE
Sample#3 Text:SB1019 :Solvent Blank C-14 Exp:DB225RES
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4064.0,1.00%,F,T)



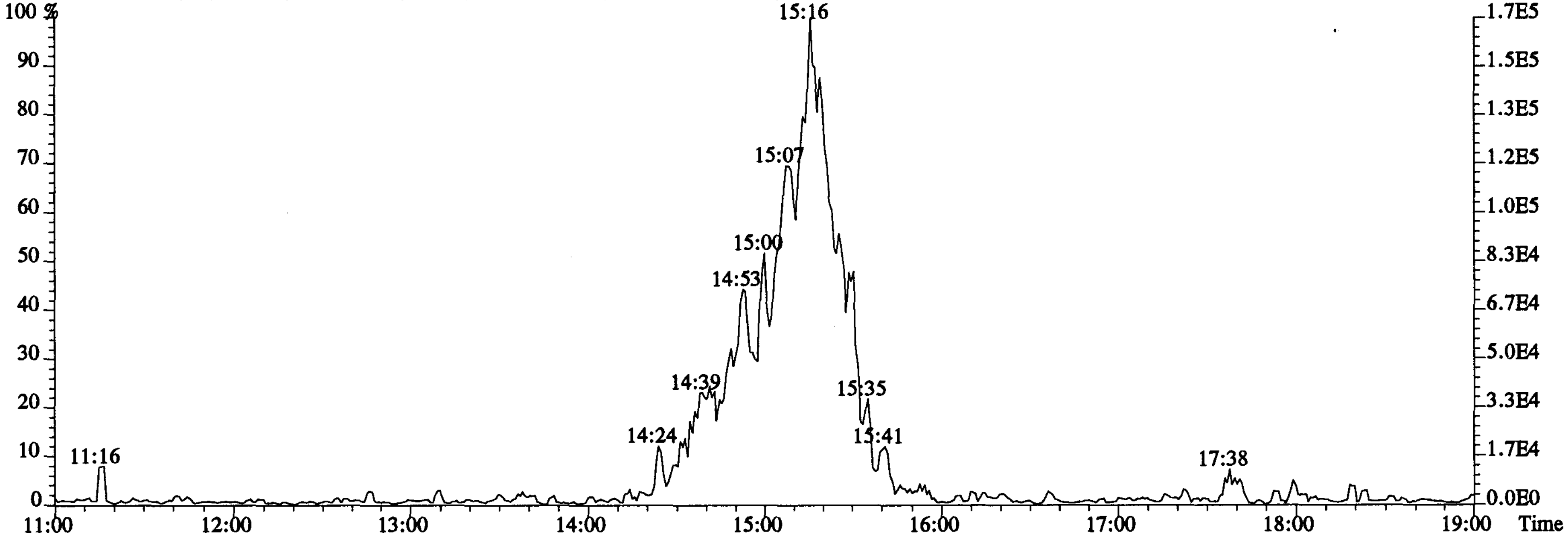
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4064.0,1.00%,F,T)

331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16256.0,1.00%,F,T)

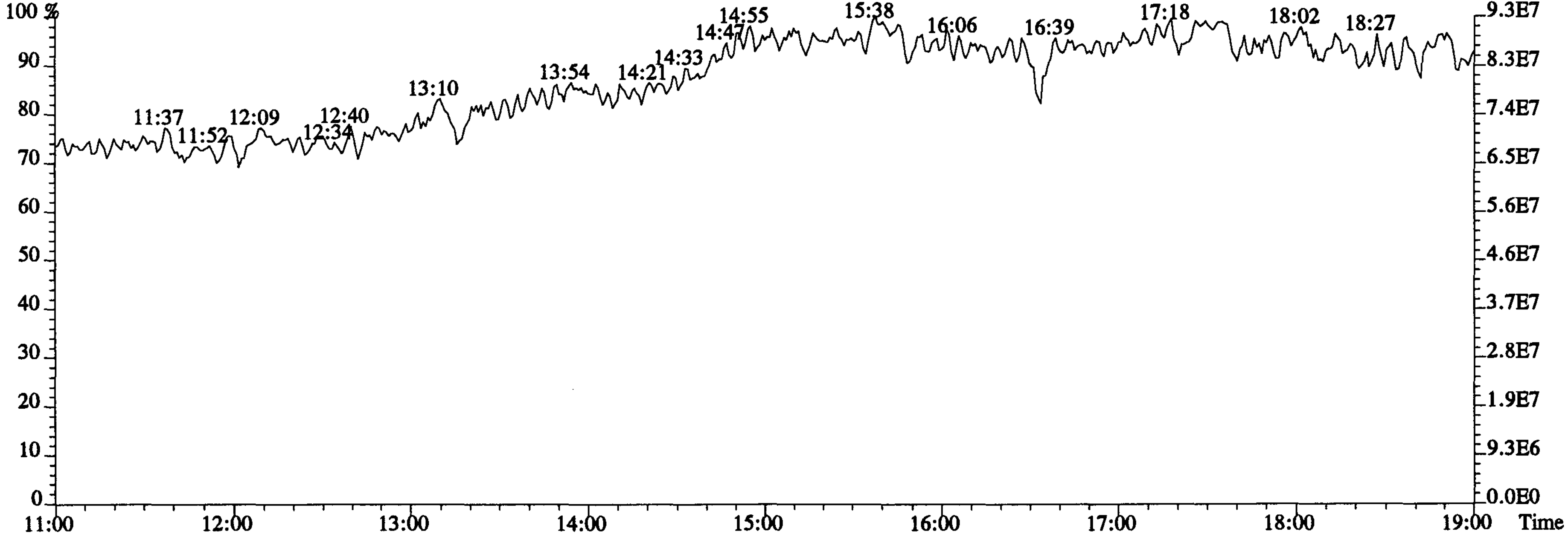
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7180.0,1.00%,F,T)

File:19OC105D2 #1-1242 Acq:19-OCT-2010 10:58:59 GC EI+ Voltage SIR 70SE
Sample#3 Text:SB1019 :Solvent Blank C-14 Exp:DB225RES

375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1516.0,1.00%,F,T)

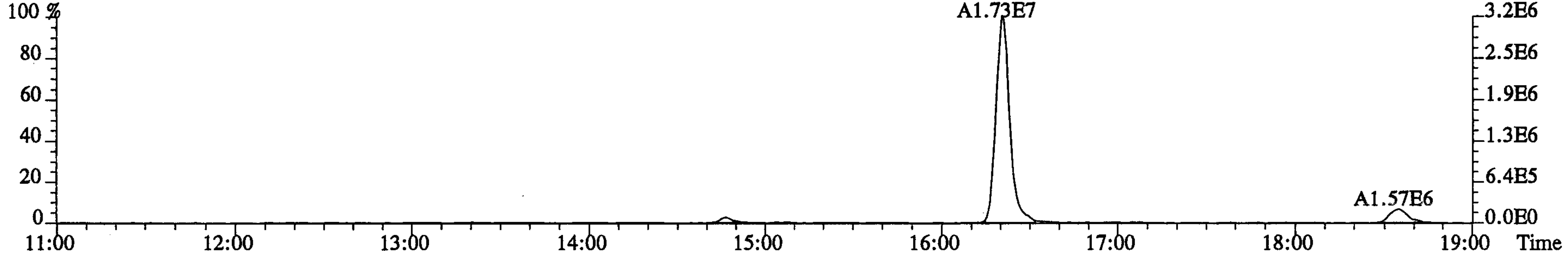


330.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

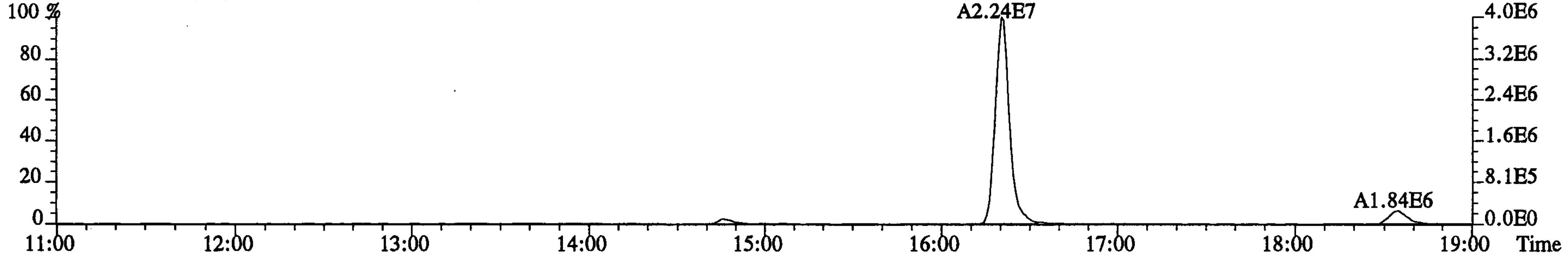


File:19OC105D2 #1-1242 Acq:19-OCT-2010 19:25:15 GC EI+ Voltage SIR 70SE
Sample#17 Text:ST1019A :CS3 10DXN461 Exp:DB225RES

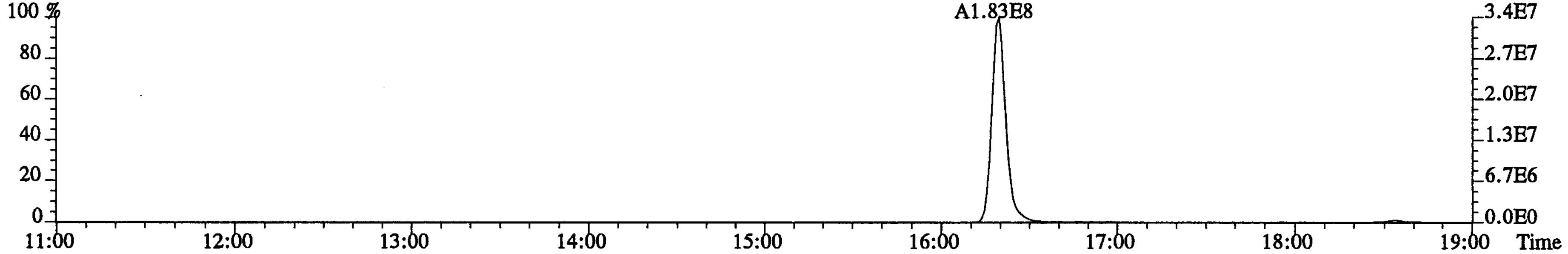
303.9016 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6488.0,1.00%,F,T)



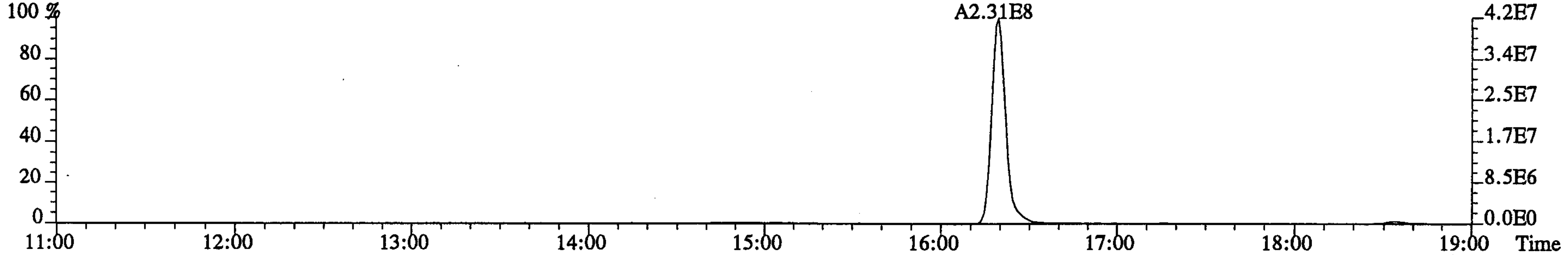
305.8987 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8196.0,1.00%,F,T)



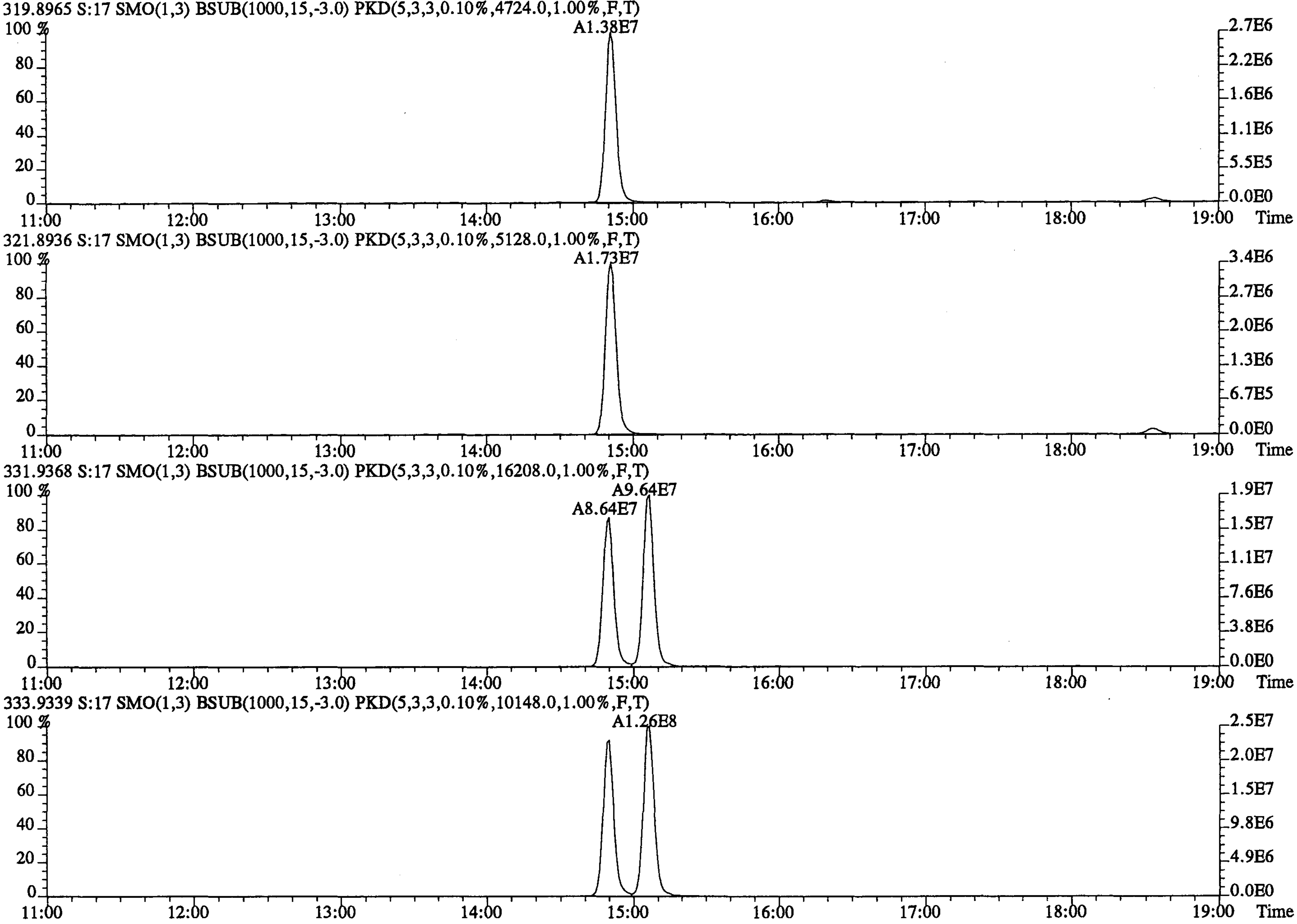
315.9419 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13740.0,1.00%,F,T)

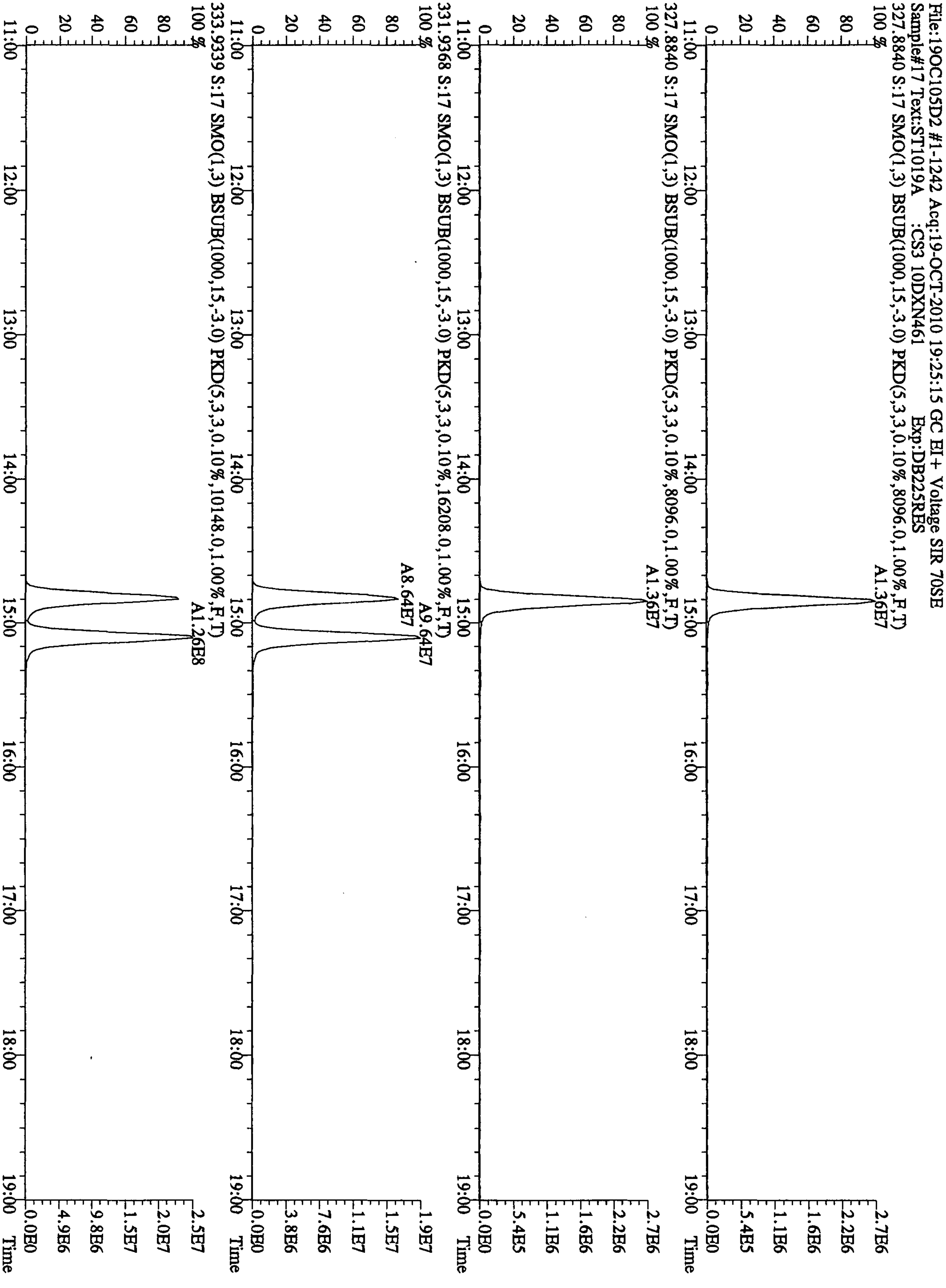


317.9389 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,34524.0,1.00%,F,T)



File:19OC105D2 #1-1242 Acq:19-OCT-2010 19:25:15 GC EI+ Voltage SIR 70SE
Sample#17 Text:ST1019A :CS3 10DXN461 Exp:DB225RES





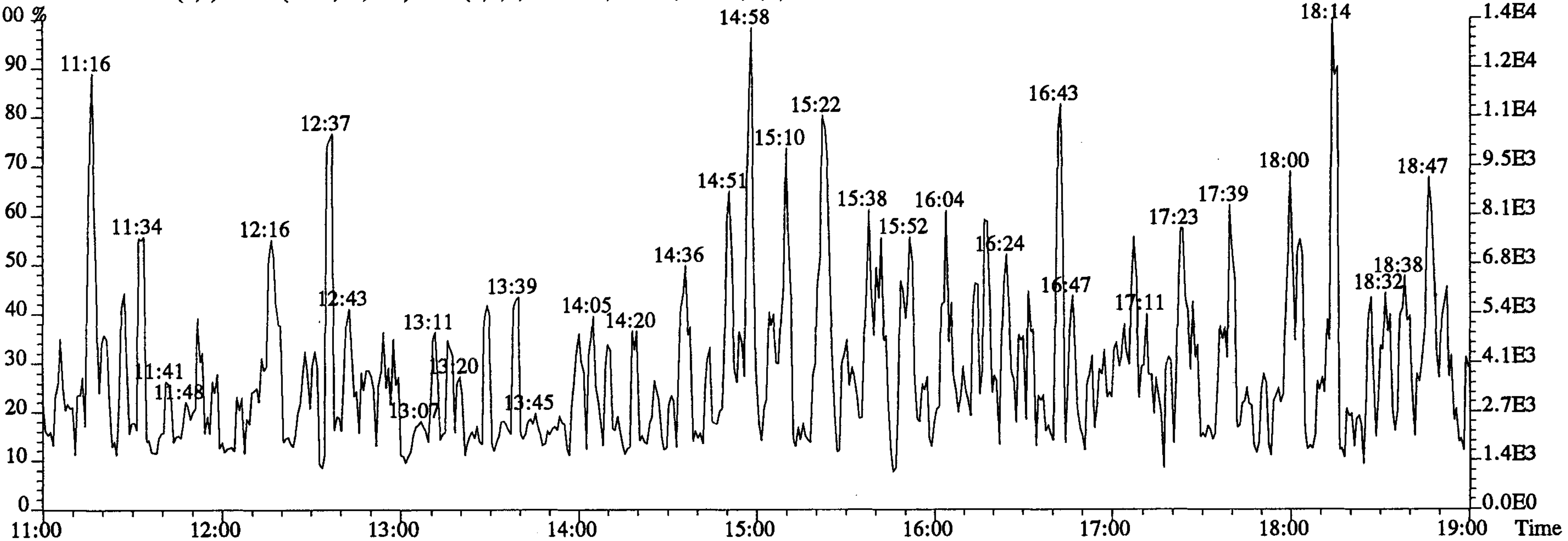
File:19OC105D2 #1-1242 Acq:19-OCT-2010 19:25:15 GC EI+ Voltage SIR 70SE
Sample#17 Text:ST1019A :CS3 10DXN461 Exp:DB225RES
327.8840 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8096.0,1.00%,F,T)

327.8840 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8096.0,1.00%,F,T)

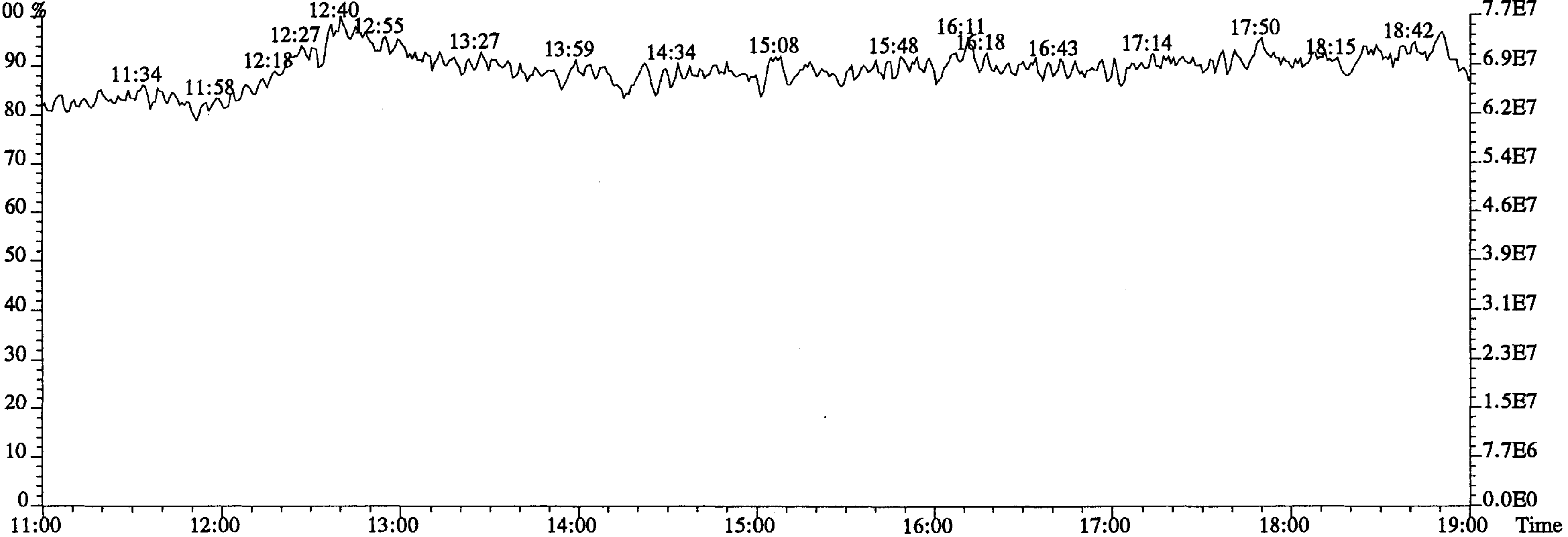
331.9368 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16208.0,1.00%,F,T)

333.9339 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10148.0,1.00%,F,T)

File:19OC105D2 #1-1242 Acq:19-OCT-2010 19:25:15 GC EI+ Voltage SIR 70SE
Sample#17 Text:ST1019A :CS3 10DXN461 Exp:DB225RES
375.8364 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3808.0,1.00%,F,T)



330.9792 S:17 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test America – West Sacramento

Daily Calibration Checklist
Dioxin Methods

Method ID T09

Column ID DB5

STD ID ST1018 , ST1018A

Analyzed by AZ

Std. Pkg. By AZ

Std. Pkg. Reviewed By KSS

Associated ICAL# T09 0721104-D5

Instrument ID 4D5

STD Solution 10DXN461

Date Analyzed 10-18-10

Date Std. Pkg. Assembled 10-19-10

Date Std. Pkg. Reviewed 10/19/10

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:

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* **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.

N:\Hires\Forms\QA-231 Dioxin Daily Std Checklist.doc QA-231 8/10/09 DW

```
Run text: ST1018                       File text: ST1018 :CS3 10DXN461
Run #6   Filename 18OC104D5   S: 2     I: 1
Acquired: 18-OCT-10   09:51:30            Processed: 18-OCT-10  15:42:17
Run: 18OC104D5    Analyte: TO9           Cal: TO90721104D5        Results: 18OC104D5TO9


                      Name      Resp     RA       RT     RRF    Amount     Dev'n  Mod?
           13C-1,2,3,4-TCDD  71830500  0.79 y  20:05       -   100.00         -  n

           13C-2,3,7,8-TCDF  88680900  0.79 y  19:30    1.23   100.00       0.4  n
               2,3,7,8-TCDF   9225730  0.80 y  19:31    1.04    10.00       4.6  n
                 Total TCDF   9326207  0.55 n  19:04    1.04    10.00       4.6  n

           13C-2,3,7,8-TCDD  71263300  0.79 y  20:19    0.99   100.00       9.6  n
               2,3,7,8-TCDD   7199660  0.77 y  20:20    1.01    10.00       2.7  n
                 Total TCDD   7280903  0.73 y  15:16    1.01    10.00       2.7  n

          37Cl-2,3,7,8-TCDD   9010440  1.00 y  20:20    1.26    10.00      -4.7  n

        13C-1,2,3,7,8-PeCDF  79928300  1.56 y  25:26    1.11   100.00      27.0  n
            1,2,3,7,8-PeCDF  44398600  1.61 y  25:27    1.11    50.00       3.2  n
            2,3,4,7,8-PeCDF  40781500  1.63 y  27:01    1.02    50.00      -2.4  n
             Total F2 PeCDF  85722293  2.58 n  24:44    1.07   100.00       0.4  n
             Total F1 PeCDF     47597  0.20 n  16:51    1.07   100.00       0.4  n

        13C-1,2,3,7,8-PeCDD  59716500  1.61 y  27:51    0.83   100.00      25.8  n
            1,2,3,7,8-PeCDD  27558000  1.51 y  27:52    0.92    50.00      -0.3  n
                Total PeCDD  27621434  1.51 y  27:52    0.92    50.00      -0.3  n

      13C-1,2,3,7,8,9-HxCDD  64076000  1.31 y  33:25       -   100.00         -  n

      13C-1,2,3,4,7,8-HxCDF  61688400  0.51 y  32:20    0.96   100.00      -7.9  n
          1,2,3,4,7,8-HxCDF  36651700  1.11 y  32:21    1.19    50.00      -2.4  n
          1,2,3,6,7,8-HxCDF  44241600  1.13 y  32:27    1.43    50.00      11.9  n
          2,3,4,6,7,8-HxCDF  41789000  1.13 y  32:59    1.35    50.00       9.8  n
          1,2,3,7,8,9-HxCDF  37924200  1.13 y  33:36    1.23    50.00      12.0  n
                Total HxCDF 160746299  1.14 y  31:22    1.30   200.00       7.8  n

      13C-1,2,3,6,7,8-HxCDD  57664500  1.29 y  33:09    0.90   100.00       8.3  n
          1,2,3,4,7,8-HxCDD  28819400  1.24 y  33:06    1.00    50.00      -3.6  n
          1,2,3,6,7,8-HxCDD  34911900  1.28 y  33:10    1.21    50.00       4.1  n
          1,2,3,7,8,9-HxCDD  35933400  1.23 y  33:26    1.25    50.00       5.5  n
                Total HxCDD  99664700  1.24 y  33:06    1.15   150.00       2.2  n

    13C-1,2,3,4,6,7,8-HpCDF  59066800  0.45 y  34:57    0.92   100.00       1.3  n
        1,2,3,4,6,7,8-HpCDF  45588300  1.06 y  34:58    1.54    50.00      14.7  n
        1,2,3,4,7,8,9-HpCDF  38031100  1.09 y  36:07    1.29    50.00      17.8  n
                Total HpCDF  83619400  1.06 y  34:58    1.42   100.00      16.1  n

    13C-1,2,3,4,6,7,8-HpCDD  56818500  1.05 y  35:46    0.89   100.00       7.3  n
        1,2,3,4,6,7,8-HpCDD  31300900  1.06 y  35:47    1.10    50.00       2.8  n
                Total HpCDD  31417104  1.18 y  35:12    1.10    50.00       2.8  n

                   13C-OCDD  91217700  0.89 y  38:20    0.71   200.00      14.8  n
                       OCDF  64140200  0.92 y  38:28    1.41   100.00       2.6  n
                       OCDD  56203000  0.90 y  38:20    1.23   100.00       2.7  n
```

```
Run text: ST1018A                       File text: ST1018A :CS3 10DXN461
Run #11  Filename 18OC104D5   S: 15     I: 1
Acquired: 18-OCT-10   19:31:22             Processed: 19-OCT-10  10:01:08
Run: 18OC104D5    Analyte: TO9            Cal: TO90721104D5        Results: 18OC104D5TO9


                    Name        Resp     RA       RT    RRF    Amount    Dev'n  Mod?
          13C-1,2,3,4-TCDD    76962804  0.79 y  20:04     -    100.00        -  n

          13C-2,3,7,8-TCDF    87001736  0.79 y  19:28  1.13    100.00     -8.0  n
              2,3,7,8-TCDF     7894419  0.74 y  19:29  0.91     10.00     -8.8  n
                Total TCDF     7998777  0.93 n  19:05  0.91     10.00     -8.8  n

          13C-2,3,7,8-TCDD    75010078  0.79 y  20:17  0.97    100.00      7.7  n
              2,3,7,8-TCDD     6600646  0.78 y  20:19  0.88     10.00    -10.5  n
                Total TCDD     6722437  0.78 y  20:19  0.88     10.00    -10.5  n

         37Cl-2,3,7,8-TCDD     9336100  1.00 y  20:18  1.24     10.00     -6.1  n

       13C-1,2,3,7,8-PeCDF    74311982  1.57 y  25:22  0.97    100.00     10.2  n
           1,2,3,7,8-PeCDF    35620872  1.54 y  25:24  0.96     50.00    -11.0  n
           2,3,4,7,8-PeCDF    33514535  1.52 y  26:58  0.90     50.00    -13.7  n
            Total F2 PeCDF    69602568  1.82 n  23:45  0.93    100.00    -12.3  n
            Total F1 PeCDF       62405  0.39 n  17:03  0.93    100.00    -12.3  n

       13C-1,2,3,7,8-PeCDD    58847066  1.63 y  27:48  0.76    100.00     15.7  n
           1,2,3,7,8-PeCDD    26868337  1.48 y  27:50  0.91     50.00     -1.3  n
               Total PeCDD    26881102  1.48 y  27:50  0.91     50.00     -1.3  n

     13C-1,2,3,7,8,9-HxCDD    47450058  1.25 y  33:25     -    100.00        -  n

     13C-1,2,3,4,7,8-HxCDF    48784388  0.50 y  32:20  1.03    100.00     -1.6  n
         1,2,3,4,7,8-HxCDF    28868791  1.13 y  32:21  1.18     50.00     -2.8  n
         1,2,3,6,7,8-HxCDF    33066510  1.17 y  32:26  1.36     50.00      5.8  n
         2,3,4,6,7,8-HxCDF    29997968  1.15 y  32:58  1.23     50.00     -0.3  n
         1,2,3,7,8,9-HxCDF    24489966  1.14 y  33:36  1.00     50.00     -8.6  n
               Total HxCDF   116423235  1.13 y  32:21  1.19    200.00     -1.2  n

     13C-1,2,3,6,7,8-HxCDD    41921682  1.10 y  33:09  0.88    100.00      6.3  n
         1,2,3,4,7,8-HxCDD    21037692  1.25 y  33:06  1.00     50.00     -3.2  n
         1,2,3,6,7,8-HxCDD    25964697  1.29 y  33:10  1.24     50.00      6.5  n
         1,2,3,7,8,9-HxCDD    24520165  1.26 y  33:26  1.17     50.00     -1.0  n
               Total HxCDD    71761942  1.25 y  33:06  1.14    150.00      0.9  n

   13C-1,2,3,4,6,7,8-HpCDF    41866867  0.43 y  34:57  0.88    100.00     -3.0  n
       1,2,3,4,6,7,8-HpCDF    29883534  1.06 y  34:57  1.43     50.00      6.1  n
       1,2,3,4,7,8,9-HpCDF    26661963  1.05 y  36:08  1.27     50.00     16.5  n
               Total HpCDF    56545497  1.06 y  34:57  1.35    100.00     10.7  n

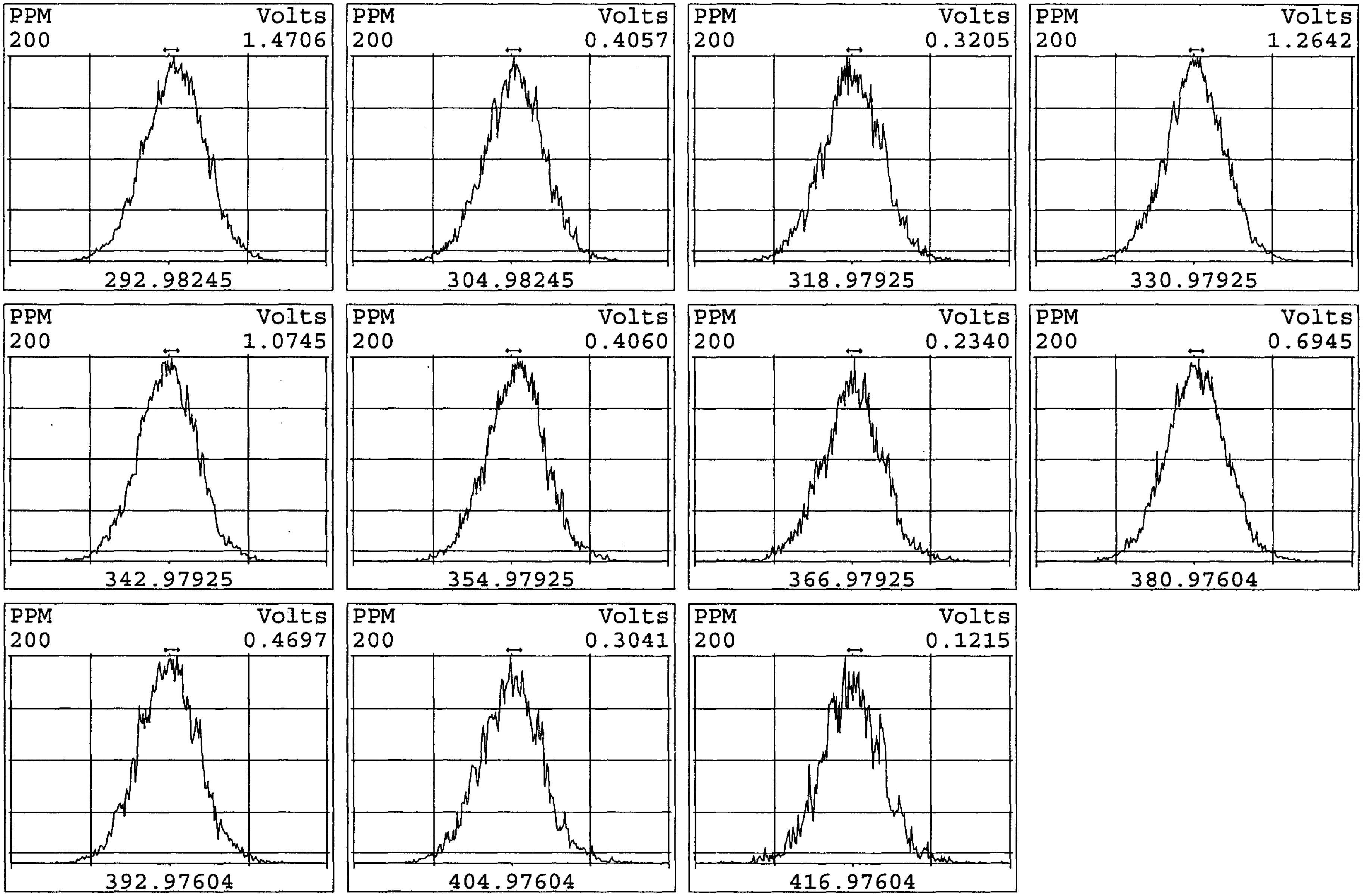
   13C-1,2,3,4,6,7,8-HpCDD    44709814  1.04 y  35:47  0.94    100.00     14.0  n
       1,2,3,4,6,7,8-HpCDD    22727002  1.02 y  35:47  1.02     50.00     -5.1  n
               Total HpCDD    22818670  1.19 y  35:13  1.02     50.00     -5.1  n

                  13C-OCDD    59705766  0.89 y  38:21  0.63    200.00      1.5  n
                      OCDF    39988642  0.90 y  38:29  1.34    100.00     -2.2  n
                      OCDD    35235155  0.88 y  38:22  1.18    100.00     -1.6  n
```

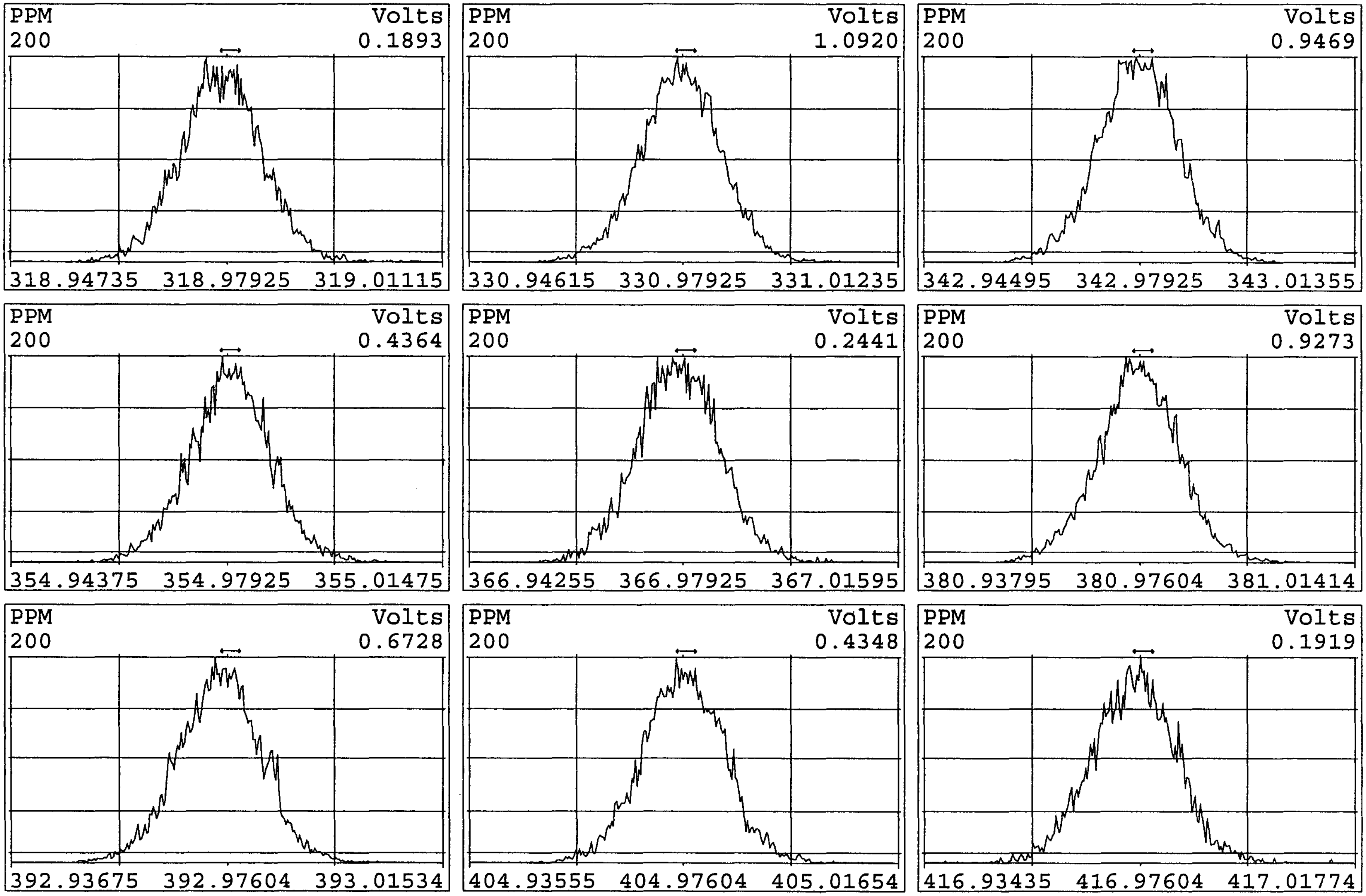
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
18OC104D5	1	CP1018	DB-5 CPSM 3732-09				1.00000	
18OC104D5	2	ST1018	CS3 10DXN461				1.00000	
18OC104D5	3	SB1018	Solvent Blank C-14				1.00000	
18OC104D5	4	L7A64-1-AD	G0I220545-8	20	8290/SOLID	63	10.34000	g
18OC104D5	5	L7A65-1-AD	G0I220545-9	20	8290/SOLID		10.59000	g
18OC104D5	6	L7A67-1-AD	G0I220545-10	20	8290/SOLID		10.60000	g
18OC104D5	7	L6JFR-2-AA	G0I030532-5RX (20X)	20	8290/SOLID	79	5.64500	g
18OC104D5	8	L8ALT-1-AA	G0J120429-5 RI	20	TO9/AIR	81	0.50000	SAM
18OC104D5	9	L7V0A2-2-AA	G0J010574-17RX	20	8290/WASTE	80	0.10200	g
18OC104D5	10	L7V0C2-2-AA	G0J010574-18RX	20	8290/WASTE		0.10300	g
18OC104D5	11	L7V0D2-2-AA	G0J010574-19RX	20	8290/WASTE		0.10400	g
18OC104D5	12	L7V0E2-2-AA	G0J010574-20RX	20	8290/WASTE		0.10200	g
18OC104D5	13	L8A5X-1-AC	G0J120000-255 (429LCS)RI	20	TO9/AIR	81	0.50000	SAM
18OC104D5	14	L8A5X-1-AC	G0J120000-255 (429DCS)RI	20	TO9/AIR		0.50000	SAM
18OC104D5	15	ST1018A	CS3 10DXN461				1.00000	
18OC104D5	16	CP1018A	DB-5 CPSM 3732-09				1.00000	
18OC104D5	17	L70QM-1-AA	G0J020439-1MB-X	20	0023A/8290/AIR	71	0.50000	SAM
18OC104D5	18	L70QM-1-AC	G0J020439-1MB-F	20	0023A/8290/AIR		0.50000	SAM
18OC104D5	19	L7WJ8-1-AA	G0J020439-1	20	0023A/8290/AIR		0.50000	SAM
18OC104D5	20	L7WKA-1-AA	G0J020439-2	20	0023A/8290/AIR		0.50000	SAM
18OC104D5	21	L7WKC-1-AA	G0J020439-3	20	0023A/8290/AIR		0.50000	SAM
18OC104D5	22	L7WKD-1-AA	G0J020439-4	20	0023A/8290/AIR		0.50000	SAM
OC104D5	23	L7WKE-1-AA	G0J020439-5	20	0023A/8290/AIR		0.50000	SAM
OC104D5	24	L7WKF-1-AA	G0J020439-6	20	0023A/8290/AIR		0.50000	SAM
18OC104D5	25	L7WKG-1-AA	G0J020439-7	20	0023A/8290/AIR		0.50000	SAM
18OC104D5	26	L7WKJ-1-AA	G0J020439-8	20	0023A/8290/AIR		0.50000	SAM
18OC104D5	27	L7WKK-1-AA	G0J020439-9	20	0023A/8290/AIR		0.50000	SAM
18OC104D5	28	L70QM-1-AD	G0J020439-1LCS	20	0023A/8290/AIR		0.50000	SAM
18OC104D5	29	L70QM-1-AE	G0J020439-1DCS	20	0023A/8290/AIR		0.50000	SAM
18OC104D5	30	ST1018B	CS3 10DXN461				1.00000	
18OC104D5	31	CP1018B	DB-5 CPSM 3732-09				1.00000	
18OC104D5	32	SB1018A	Solvent Blank C-14				1.00000	
18OC104D5	33	L7WKK-1-AA	G0J020439-9 RI	20	0023A/8290/AIR	71	0.50000	SAM
18OC104D5	34	L70QM-1-AD	G0J020439-1LCS RI	20	0023A/8290/AIR		0.50000	SAM
18OC104D5	35	L70QM-1-AE	G0J020439-1DCS RI	20	0023A/8290/AIR		0.50000	SAM
18OC104D5	36	L70QL-1-AC	G0J010512-1LCS	20	23/AIR		0.50000	SAM
18OC104D5	37	L70QL-1-AD	G0J010512-1DCS	20	23/AIR		0.50000	SAM
18OC104D5	38	L70QL-1-AA	G0J010512-1MB	20	23/AIR		0.50000	SAM
18OC104D5	39	L7T9Q-1-AA	G0J010512-1	20	23/AIR		0.50000	SAM
18OC104D5	40	L7T90-1-AA	G0J010512-2	20	23/AIR		0.50000	SAM
18OC104D5	41	L7T91-1-AA	G0J010512-3	20	23/AIR		0.50000	SAM
18OC104D5	42						1.00000	
18OC104D5	43						1.00000	
18OC104D5	44						1.00000	
18OC104D5	45		AS, 10/18/10				1.00000	

logfile r'ld 10/19/10 KSS

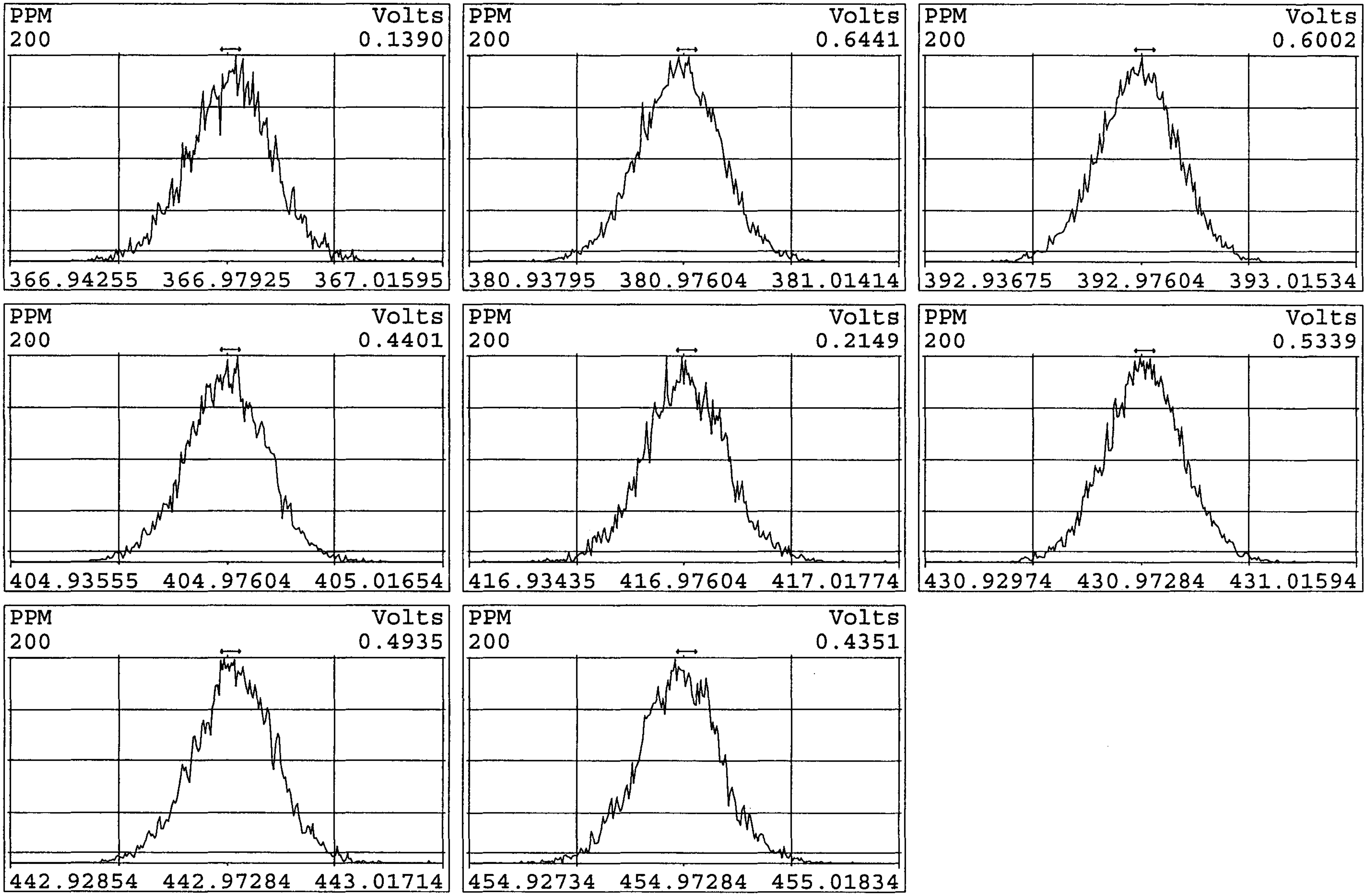
Peak Locate Examination:18-OCT-2010:09:04 File:18OC104D5
Experiment:DIOXINRES Function:1 Reference:PFK



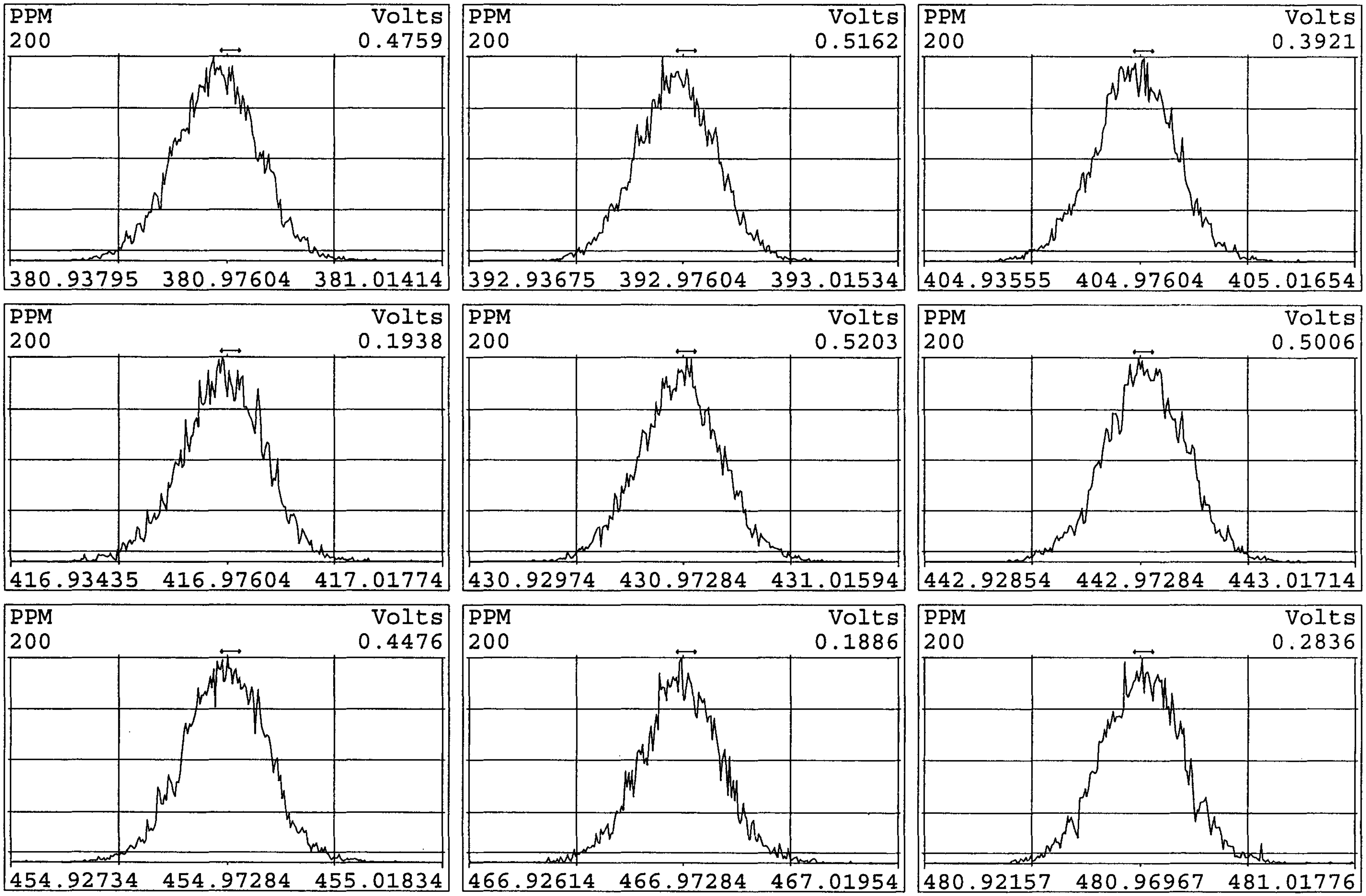
Peak Locate Examination:18-OCT-2010:09:04 File:18OC104D5
Experiment:DIOXINRES Function:2 Reference:PFK



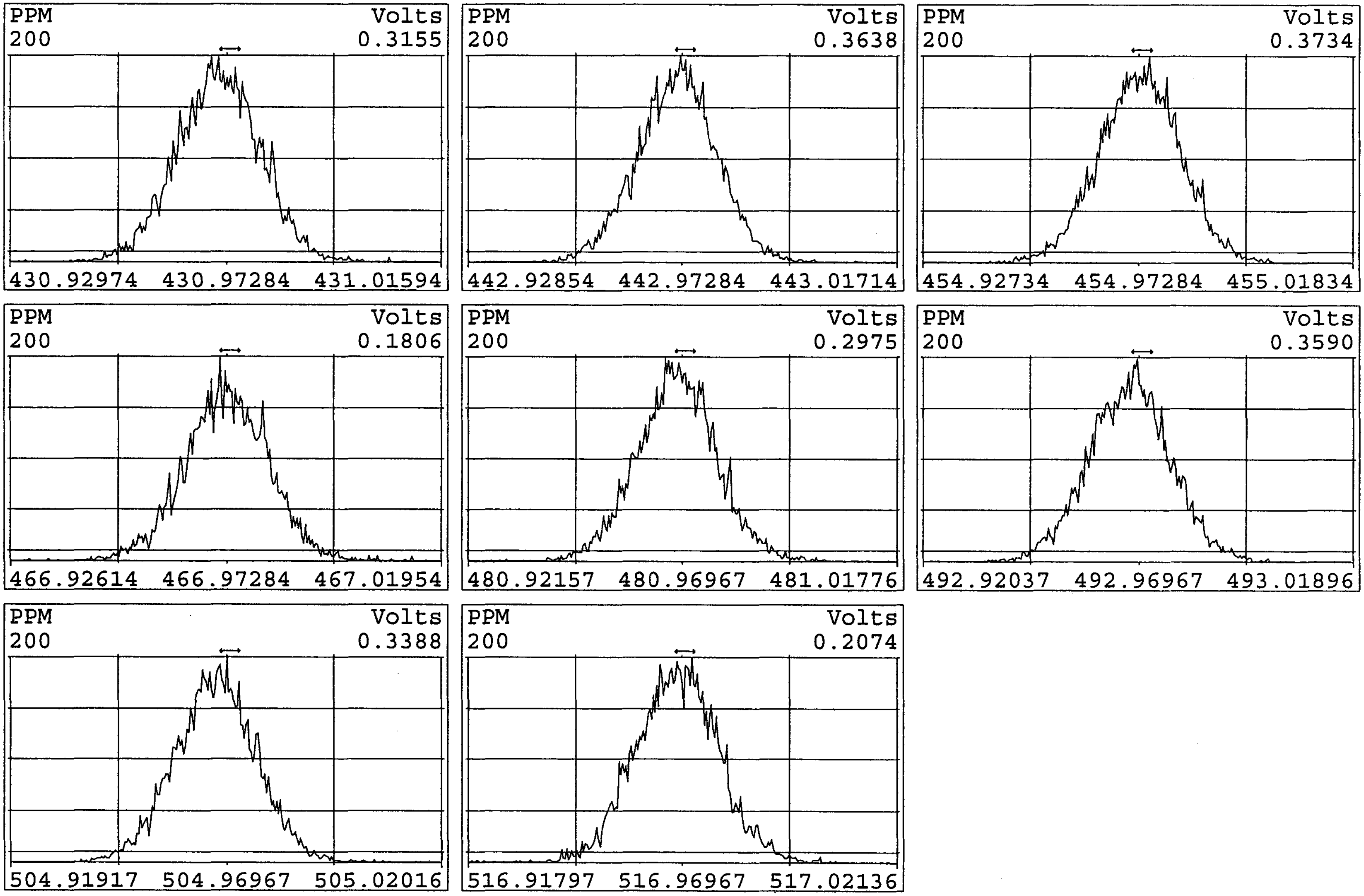
Peak Locate Examination:18-OCT-2010:09:05 File:18OC104D5
Experiment:DIOXINRES Function:3 Reference:PFK



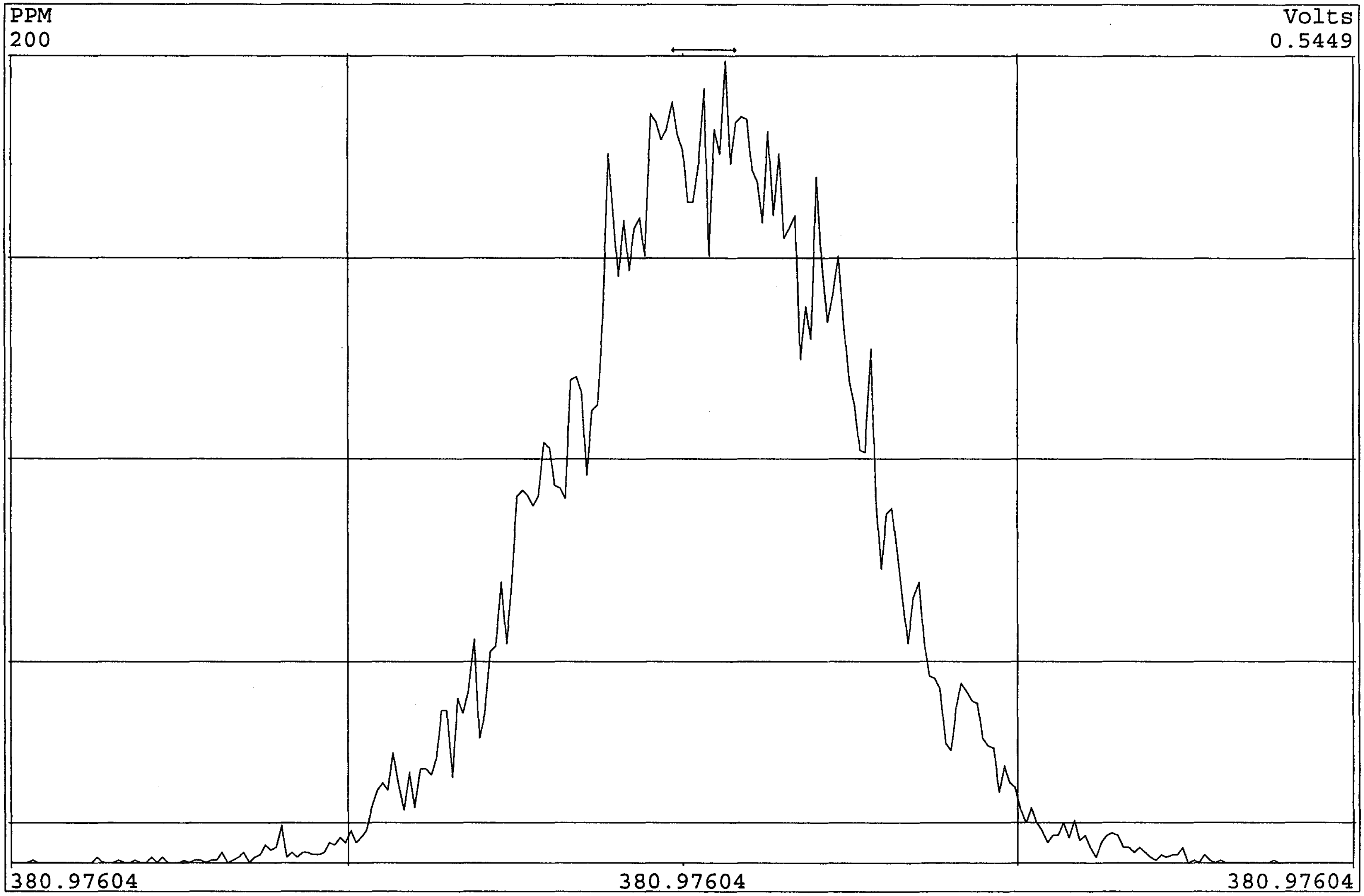
Peak Locate Examination:18-OCT-2010:09:05 File:18OC104D5
Experiment:DIOXINRES Function:4 Reference:PFK



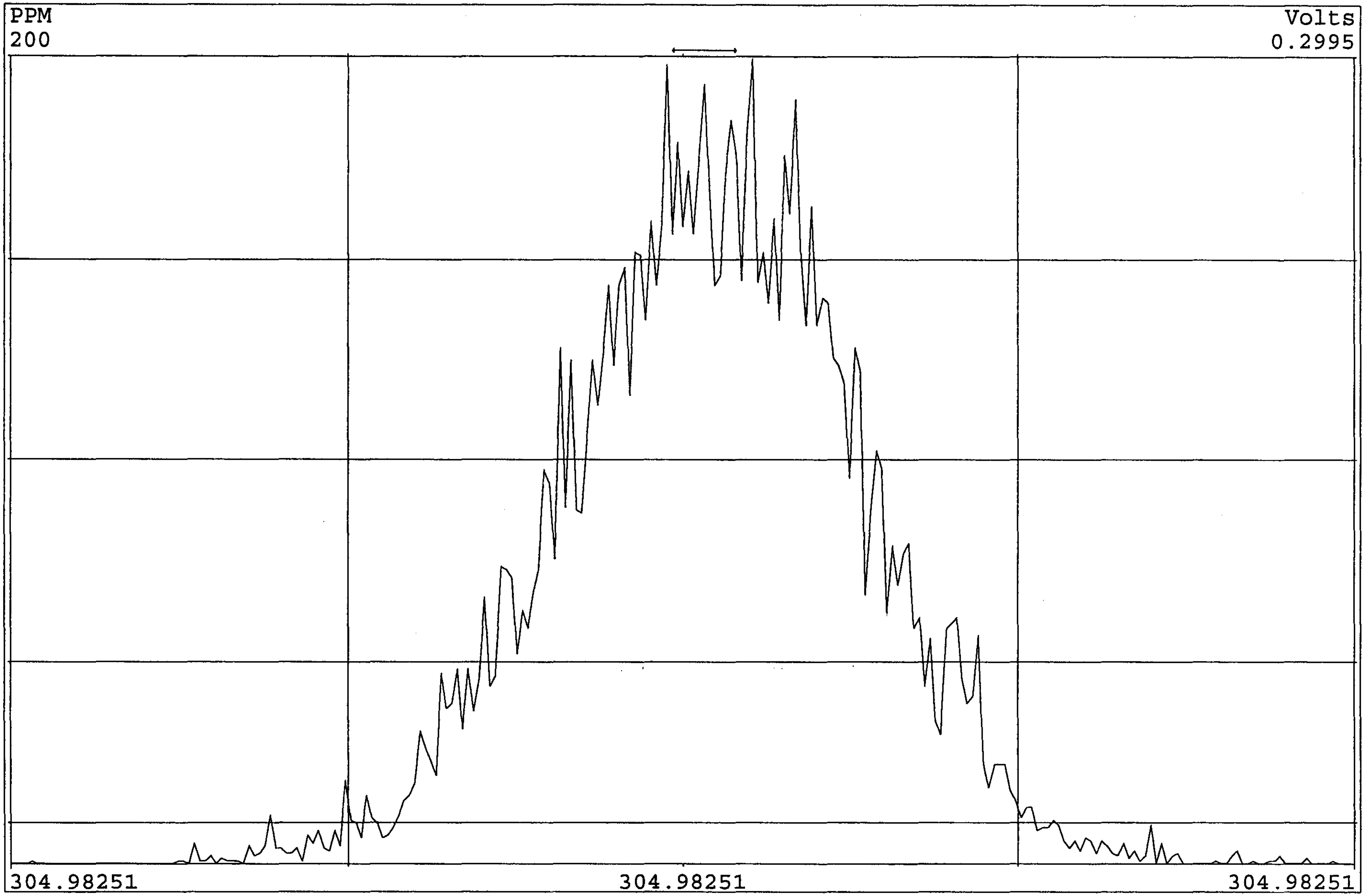
Peak Locate Examination:18-OCT-2010:09:05 File:18OC104D5
Experiment:DIOXINRES Function:5 Reference:PFK



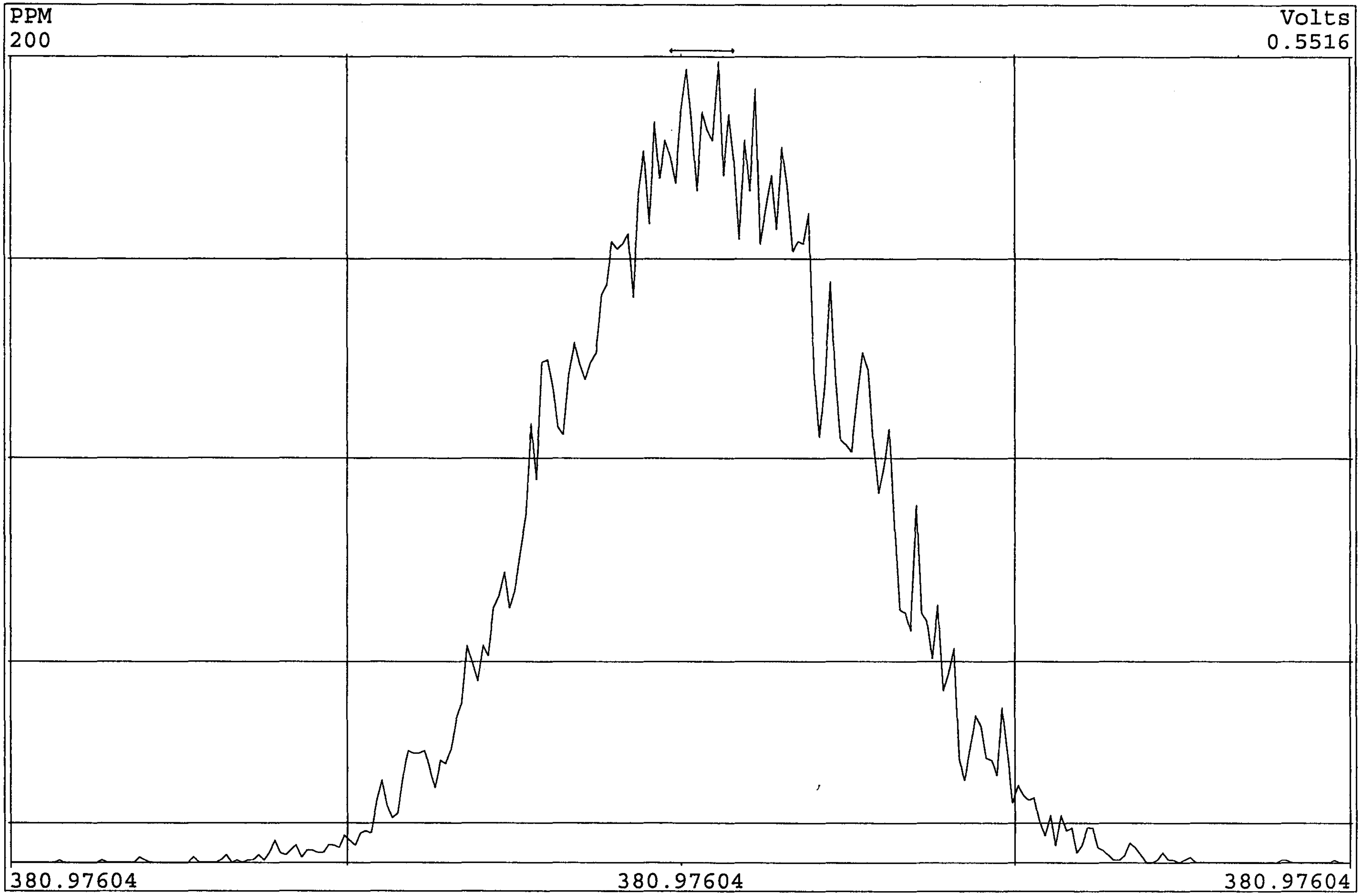
SIRLM Examination:18-OCT-2010:19:27 File:18OC104D5
Experiment:DIOXINRES Function:6



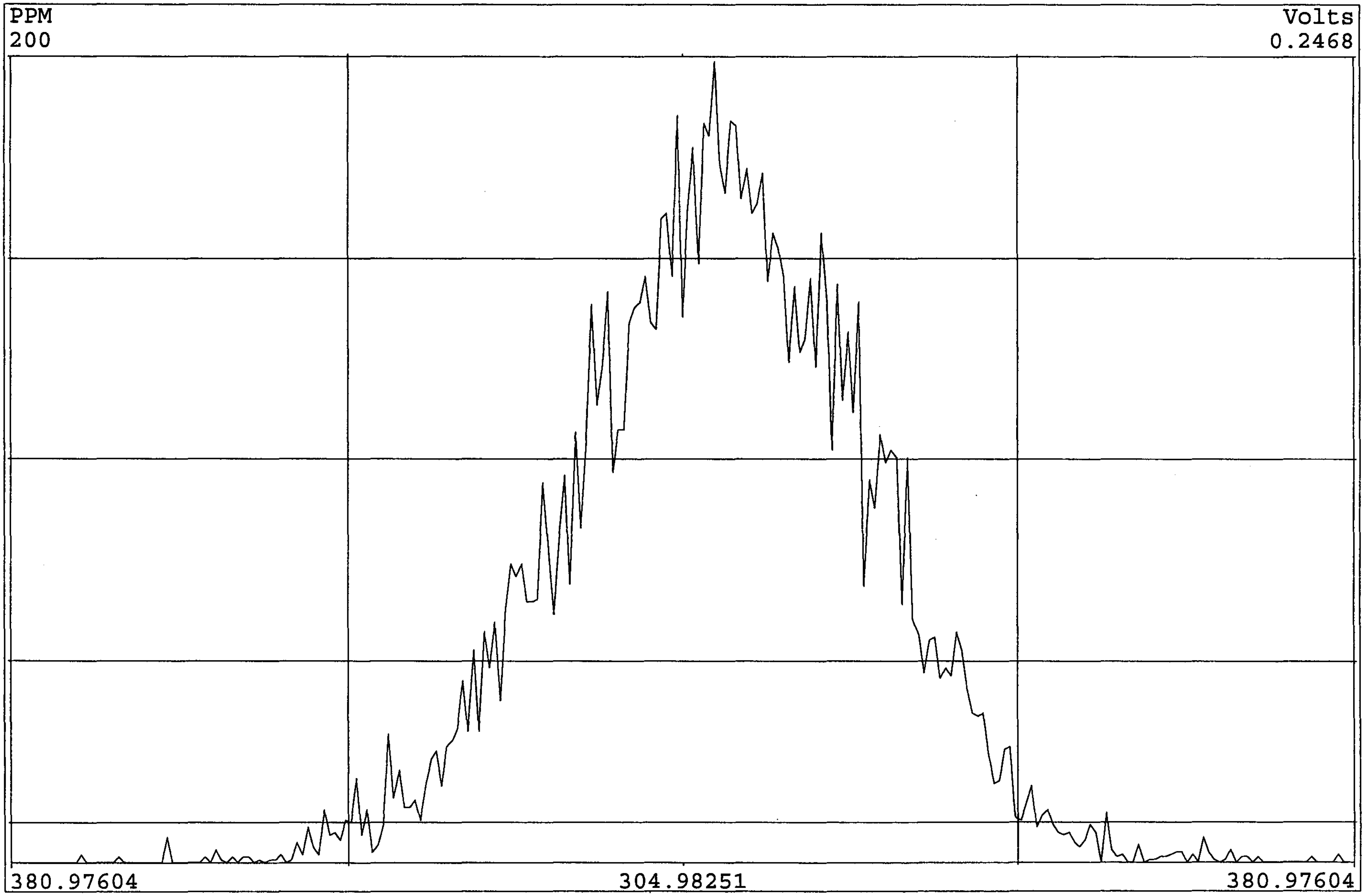
SIRLM Examination:18-OCT-2010:19:28 File:18OC104D5
Experiment:DIOXINRES Function:7



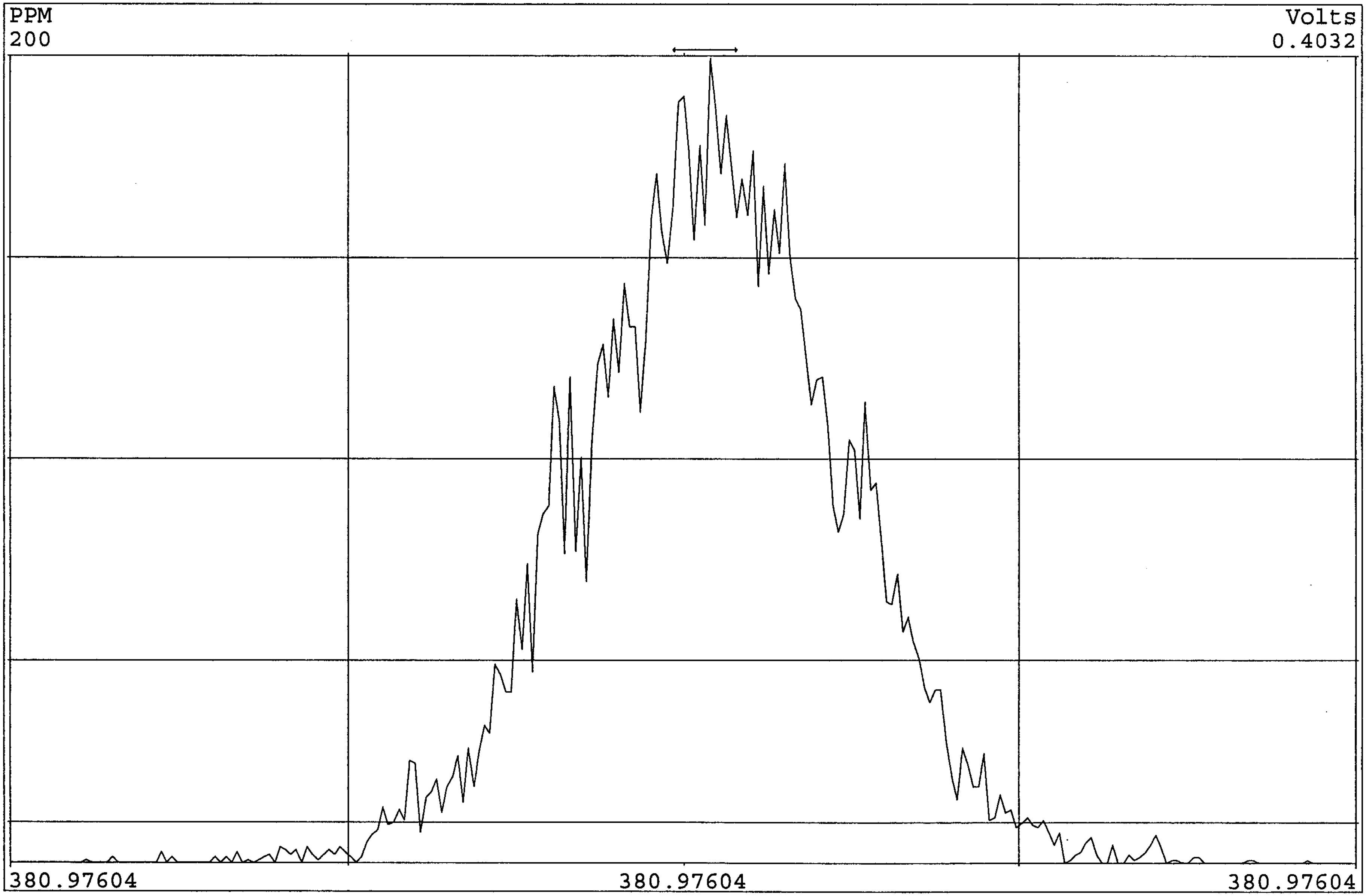
SIRLM Examination:18-OCT-2010:20:11 File:18OC104D5
Experiment:DIOXINRES Function:6



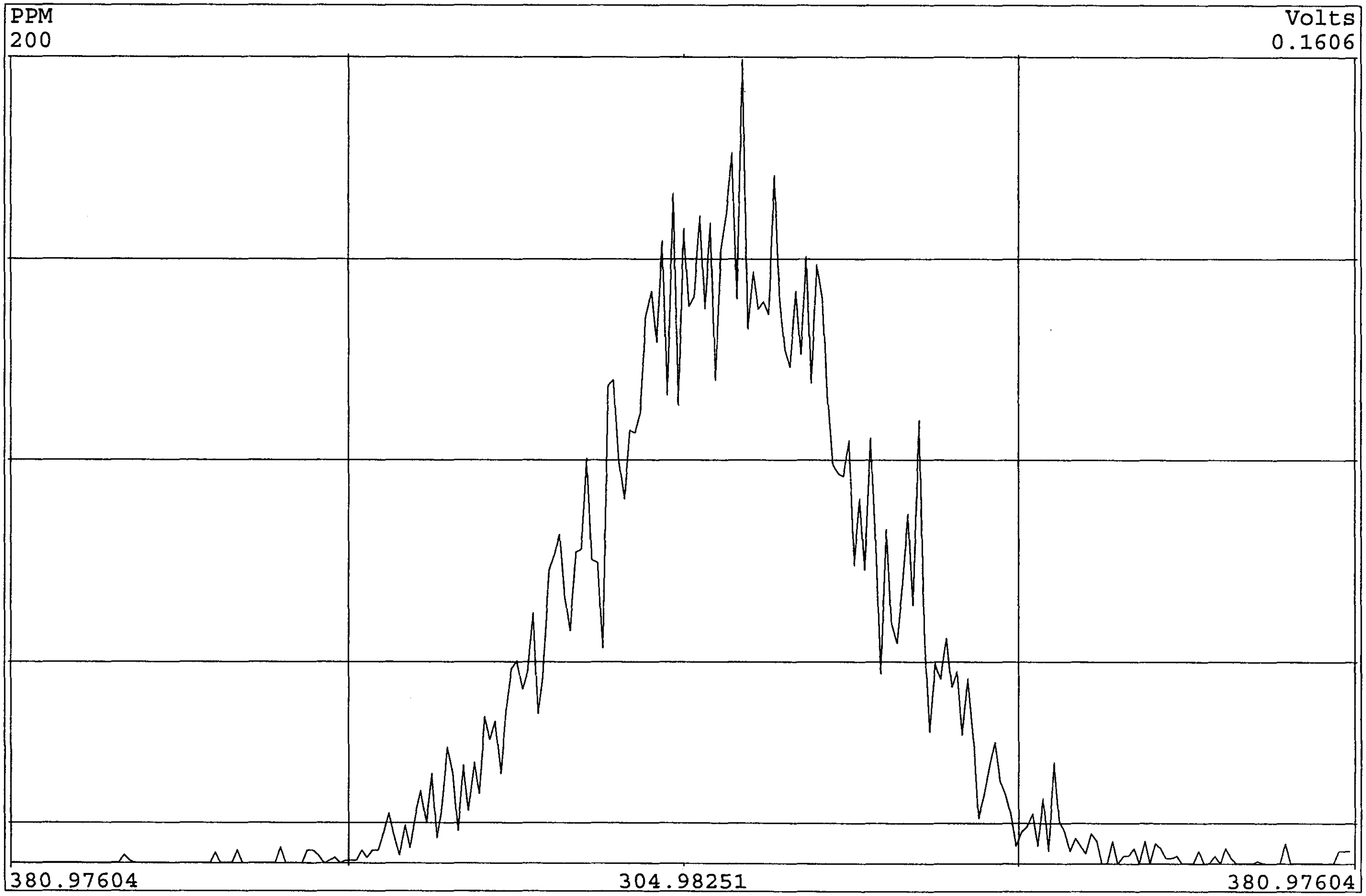
SIRLM Examination:18-OCT-2010:20:12 File:18OC104D5
Experiment:DIOXINRES Function:7



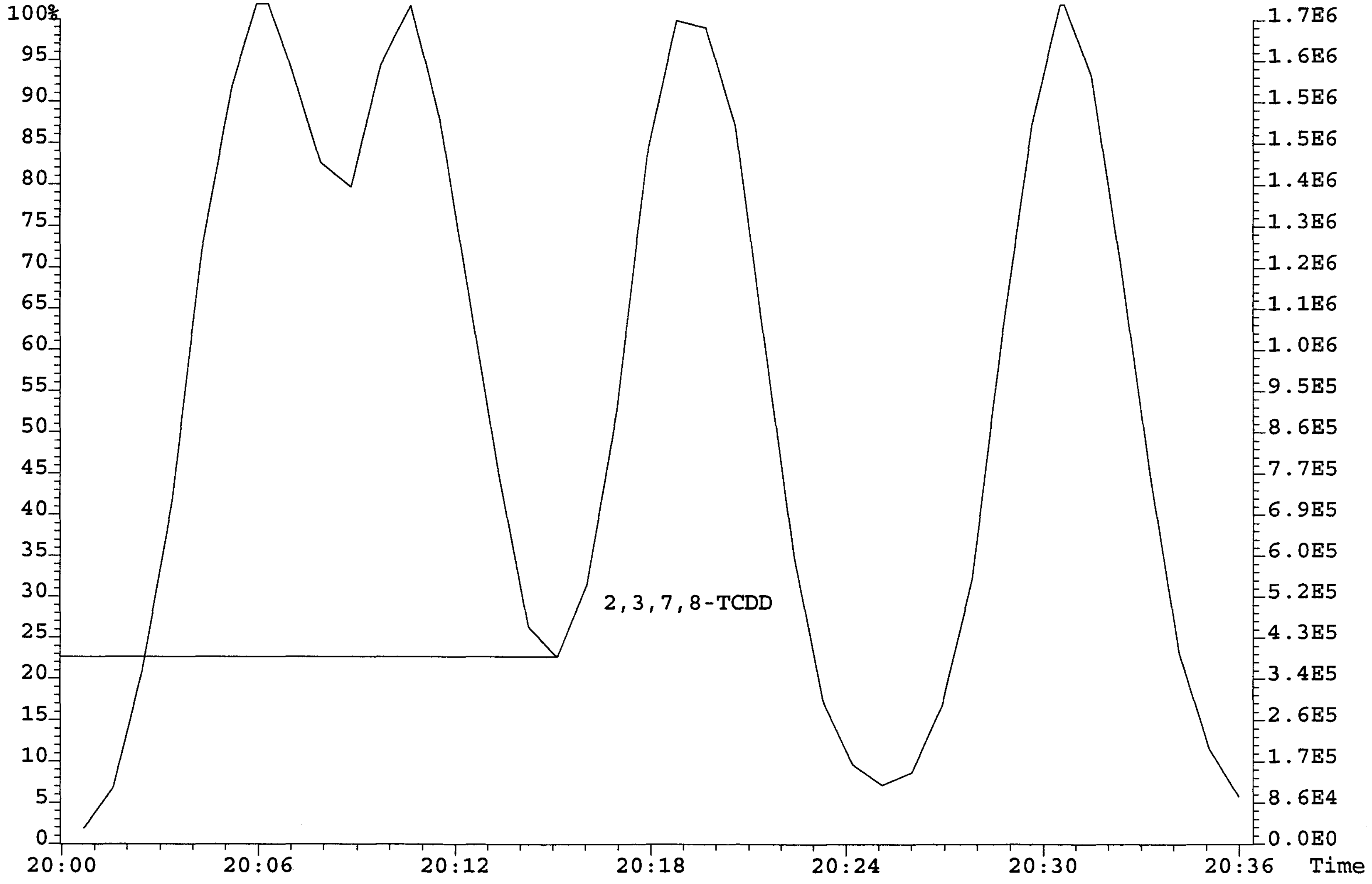
SIRLM Examination:19-OCT-2010:07:26 File:18OC104D5
Experiment:DIOXINRES Function:6



SIRLM Examination:19-OCT-2010:07:27 File:18OC104D5
Experiment:DIOXINRES Function:7



File:18OC104D5 #1-530 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES
319.8965 BSUB(128,15,-3.0)



Run: 18OC104D5 Analyte: TO9 Cal: TO90721104D5

ST0721A :CS-1 10DXN342 ST0721B :CS-2 10DXN334 ST0721C :CS-3 10DXN336
ST0721D :CS-5 10DXN339 ST0721E :CS-4 10DXN337

21JL10A4D521JL10A4D521JL10A4D521JL10A4D521JL10A4D5

				S4	S5	S6	S7	S8
Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.229	0.154	12.5 %	1.30	1.31	1.39	1.03	1.11
2,3,7,8-TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
Total TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
13C-2,3,7,8-TCDD	0.905	0.029	3.25 %	0.92	0.92	0.94	0.88	0.87
2,3,7,8-TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
Total TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
37Cl-2,3,7,8-TCDD	1.326	0.015	1.12 %	1.33	1.31	1.32	1.35	1.32
13C-1,2,3,7,8-PeCDF	0.876	0.018	2.08 %	0.86	0.90	0.86	0.89	0.87
1,2,3,7,8-PeCDF	1.077	0.042	3.92 %	1.03	1.04	1.08	1.11	1.12
2,3,4,7,8-PeCDF	1.046	0.040	3.80 %	1.00	1.02	1.08	1.04	1.09
Total F2 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
Total F1 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
13C-1,2,3,7,8-PeCDD	0.661	0.010	1.45 %	0.65	0.66	0.67	0.67	0.65
1,2,3,7,8-PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
Total PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.045	0.067	6.44 %	1.03	1.15	0.98	1.00	1.07
1,2,3,4,7,8-HxCDF	1.217	0.012	1.02 %	1.21	1.20	1.22	1.22	1.23
1,2,3,6,7,8-HxCDF	1.282	0.089	6.95 %	1.19	1.22	1.41	1.33	1.26
2,3,4,6,7,8-HxCDF	1.233	0.080	6.49 %	1.19	1.15	1.35	1.27	1.21
1,2,3,7,8,9-HxCDF	1.098	0.096	8.73 %	1.08	0.99	1.25	1.10	1.06
Total HxCDF	1.208	0.066	5.43 %	1.17	1.14	1.31	1.23	1.19
13C-1,2,3,6,7,8-HxCDD	0.831	0.055	6.68 %	0.84	0.83	0.92	0.77	0.79
1,2,3,4,7,8-HxCDD	1.037	0.122	11.8 %	0.90	0.99	0.97	1.17	1.16

```
     1,2,3,6,7,8-HxCDD   1.163   0.060   5.18 %      1.14      1.23      1.10      1.12      1.23
     1,2,3,7,8,9-HxCDD   1.182   0.057   4.86 %      1.15      1.16      1.12      1.25      1.24
           Total HxCDD   1.127   0.067   5.93 %      1.06      1.12      1.06      1.18      1.21

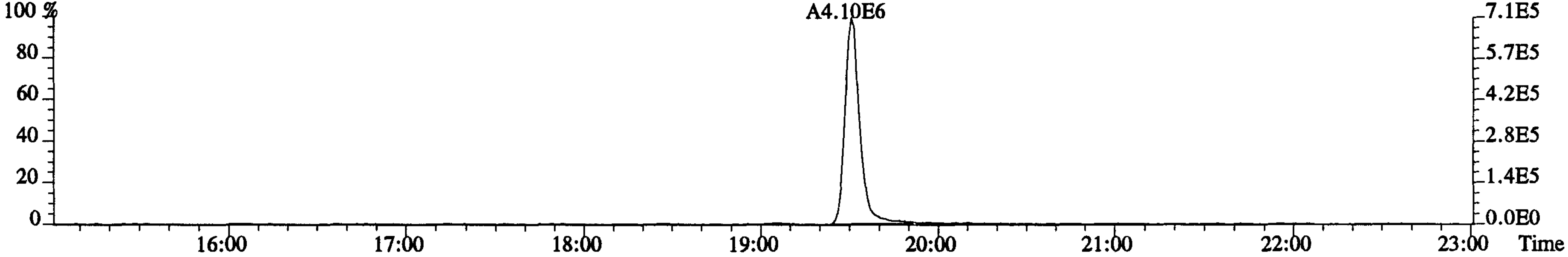
 13C-1,2,3,4,6,7,8-HpCDF   0.910   0.051   5.65 %      0.99      0.91      0.92      0.87      0.86
   1,2,3,4,6,7,8-HpCDF   1.346   0.027   1.99 %      1.31      1.34      1.35      1.35      1.38
   1,2,3,4,7,8,9-HpCDF   1.093   0.049   4.49 %      1.01      1.09      1.11      1.13      1.13
           Total HpCDF   1.220   0.037   3.05 %      1.16      1.21      1.23      1.24      1.26

 13C-1,2,3,4,6,7,8-HpCDD   0.827   0.049   5.98 %      0.89      0.85      0.83      0.76      0.79
   1,2,3,4,6,7,8-HpCDD   1.072   0.028   2.61 %      1.07      1.03      1.07      1.09      1.10
           Total HpCDD   1.072   0.028   2.61 %      1.07      1.03      1.07      1.09      1.10

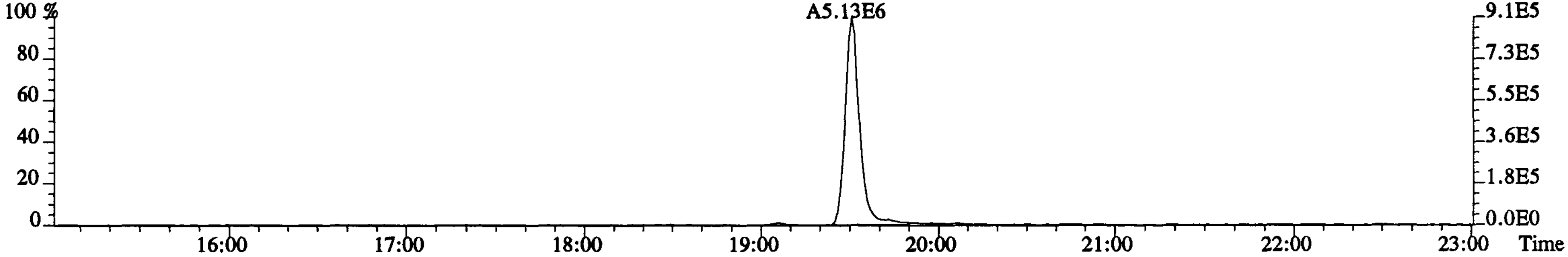
              13C-OCDD   0.620   0.029   4.60 %      0.66      0.63      0.63      0.60      0.59
                  OCDF   1.370   0.027   1.98 %      1.36      1.35      1.35      1.39      1.41
                  OCDD   1.199   0.066   5.48 %      1.31      1.17      1.16      1.17      1.19
```

File:18OC104D5 #1-530 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES

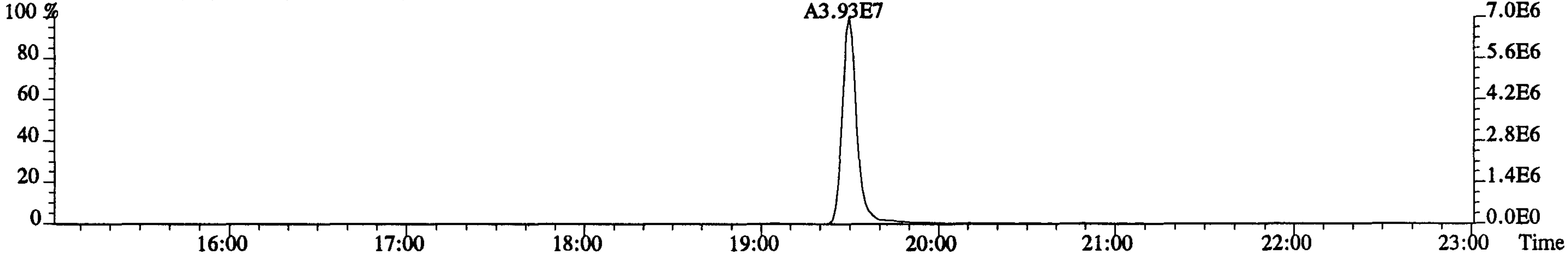
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1172.0,1.00%,F,T)



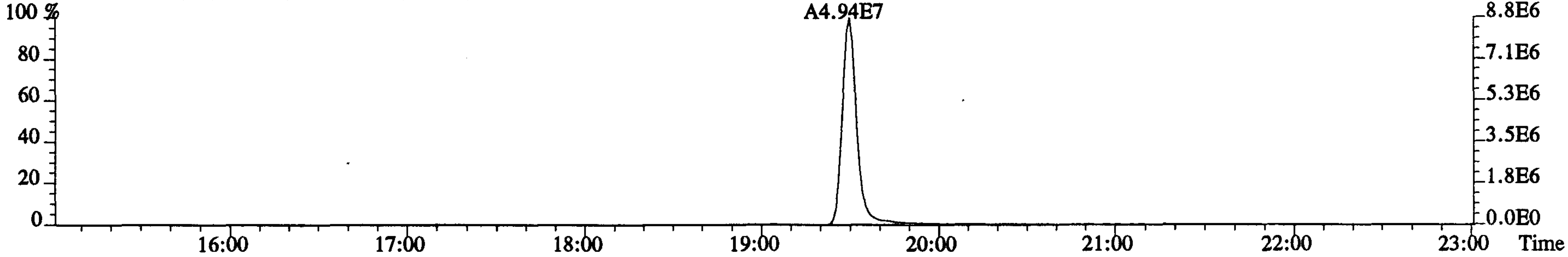
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2008.0,1.00%,F,T)



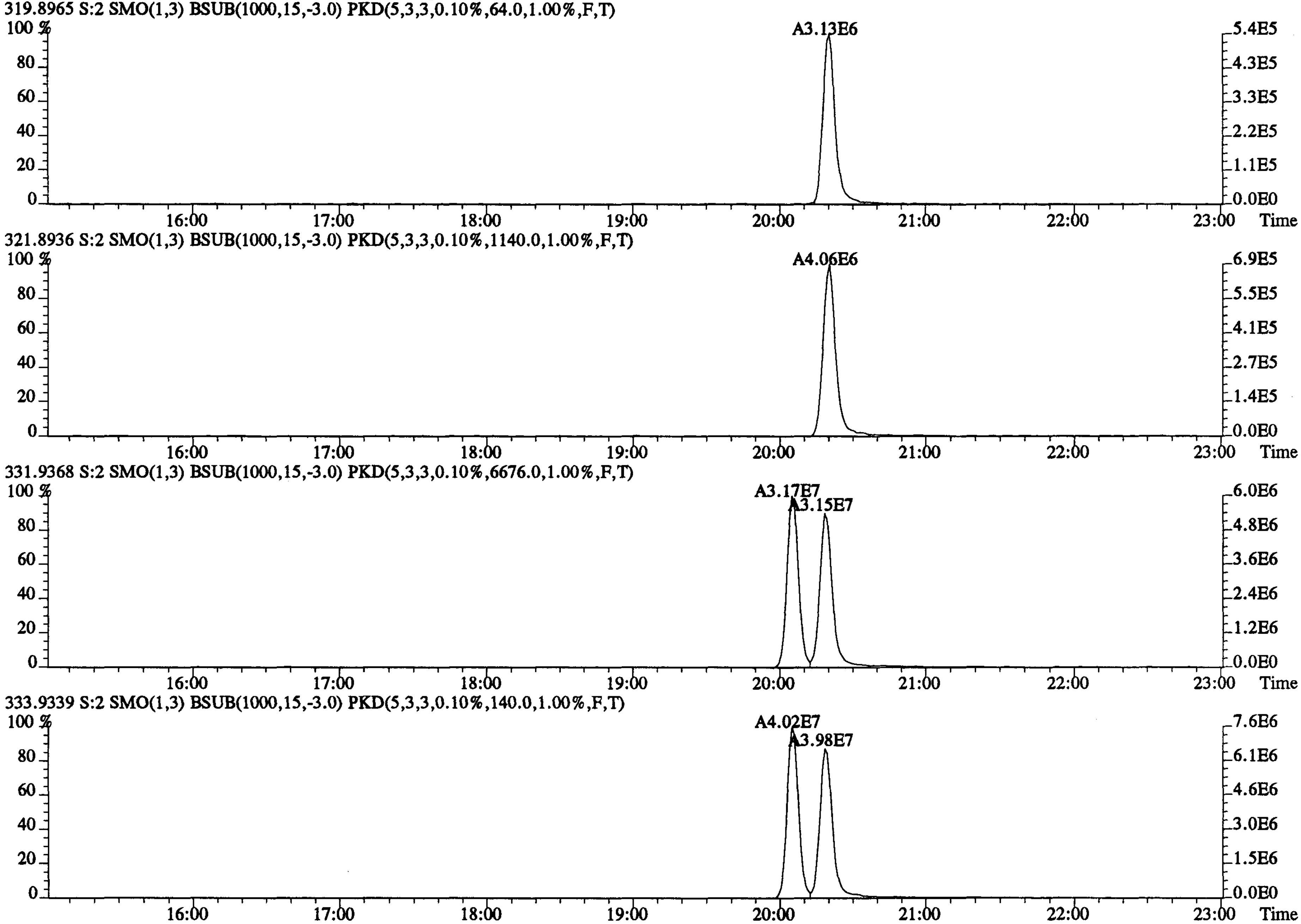
315.9419 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2312.0,1.00%,F,T)



317.9389 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2932.0,1.00%,F,T)



File:18OC104D5 #1-530 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES



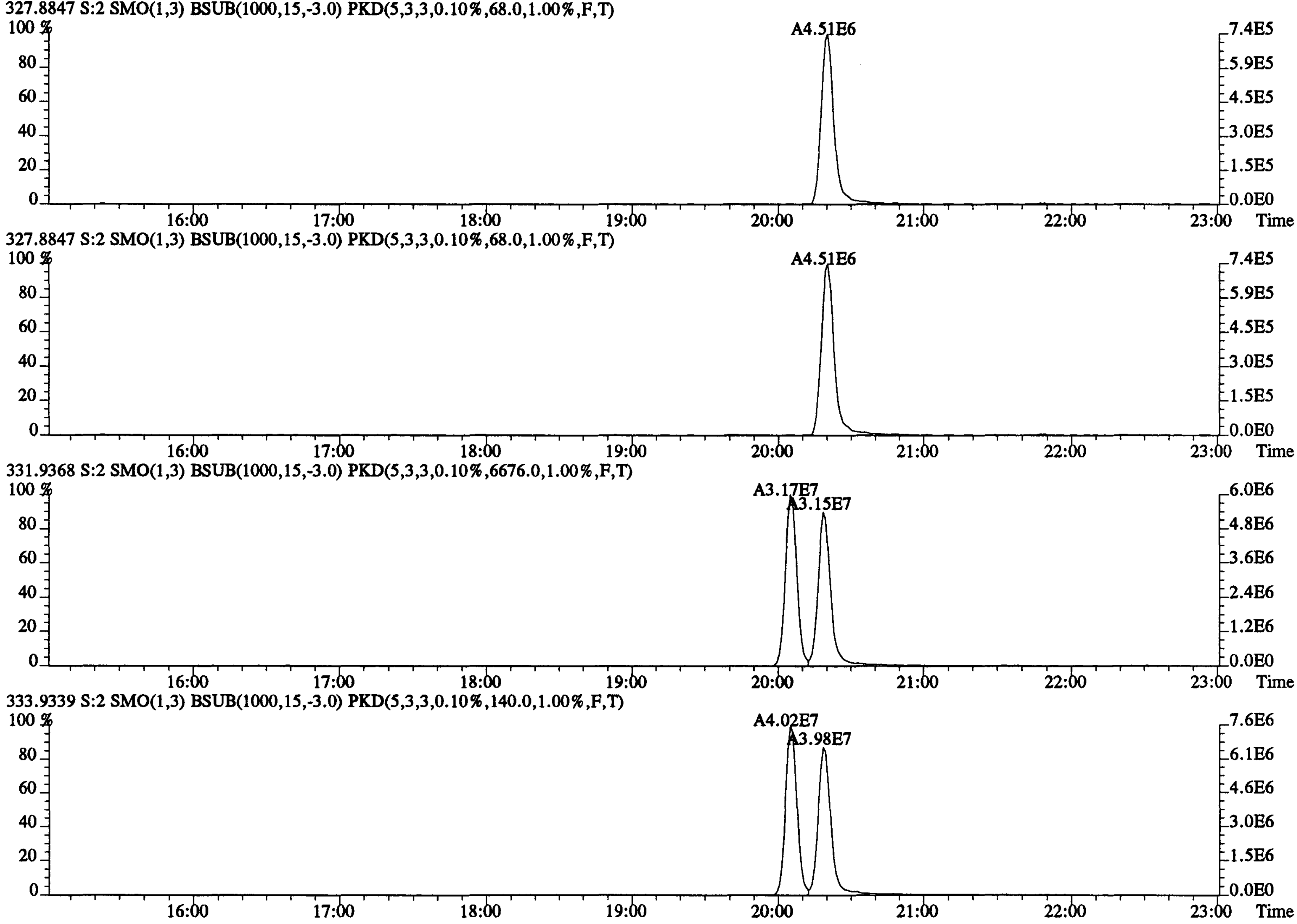
319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T)

321.8936 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1140.0,1.00%,F,T)

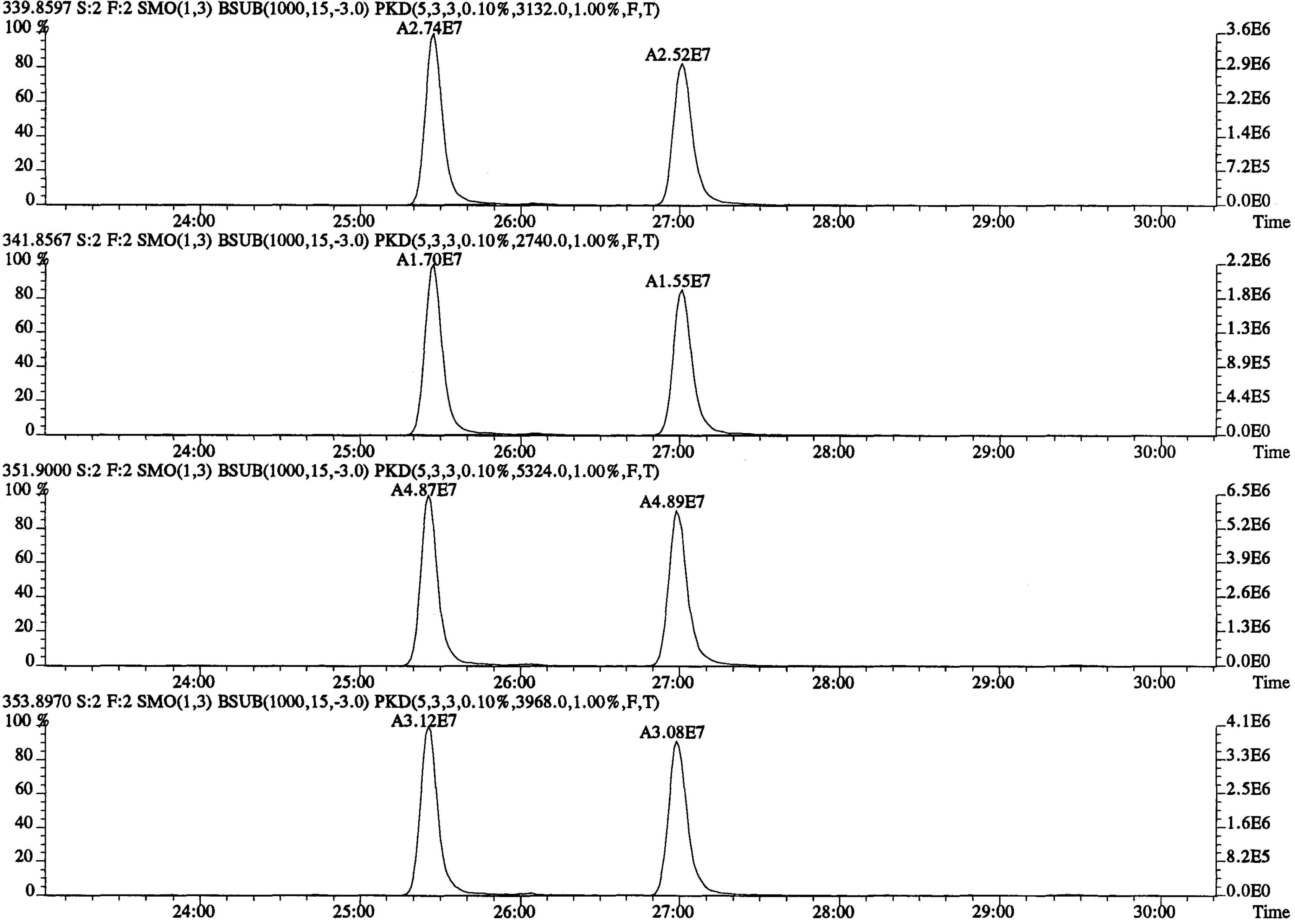
331.9368 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6676.0,1.00%,F,T)

333.9339 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,140.0,1.00%,F,T)

File:18OC104D5 #1-530 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES



File:18OC104D5 #1-470 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES



339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3132.0,1.00%,F,T)

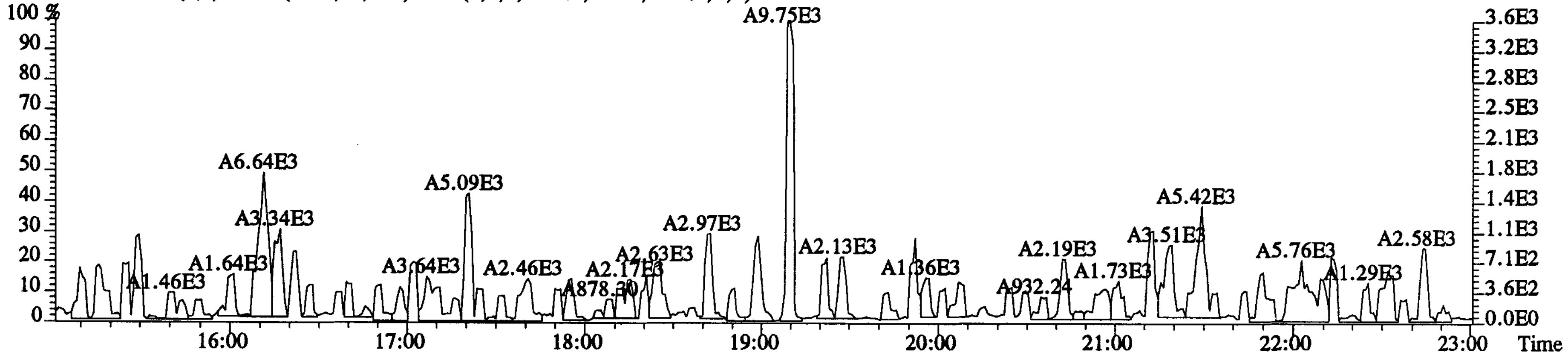
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2740.0,1.00%,F,T)

351.9000 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5324.0,1.00%,F,T)

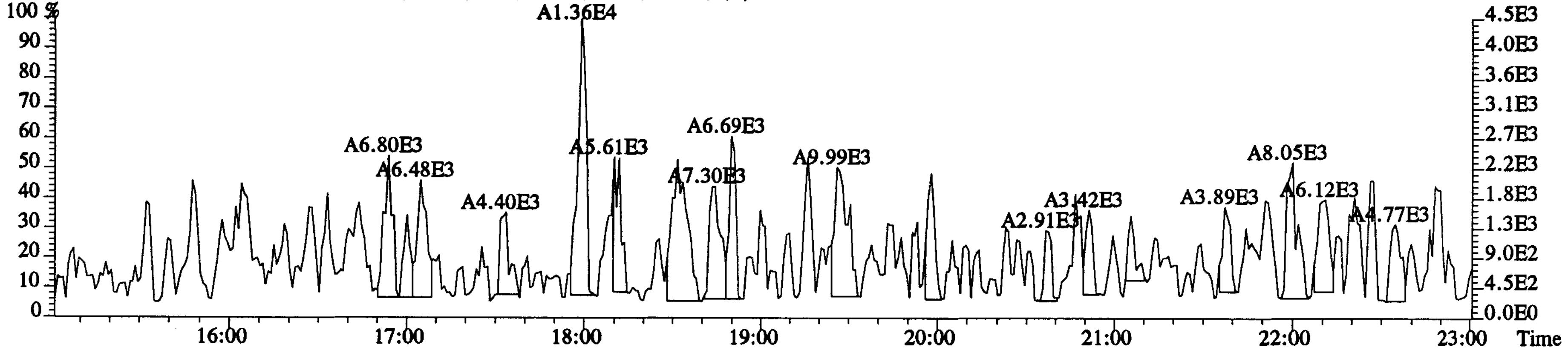
353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3968.0,1.00%,F,T)

File:18OC104D5 #1-530 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES

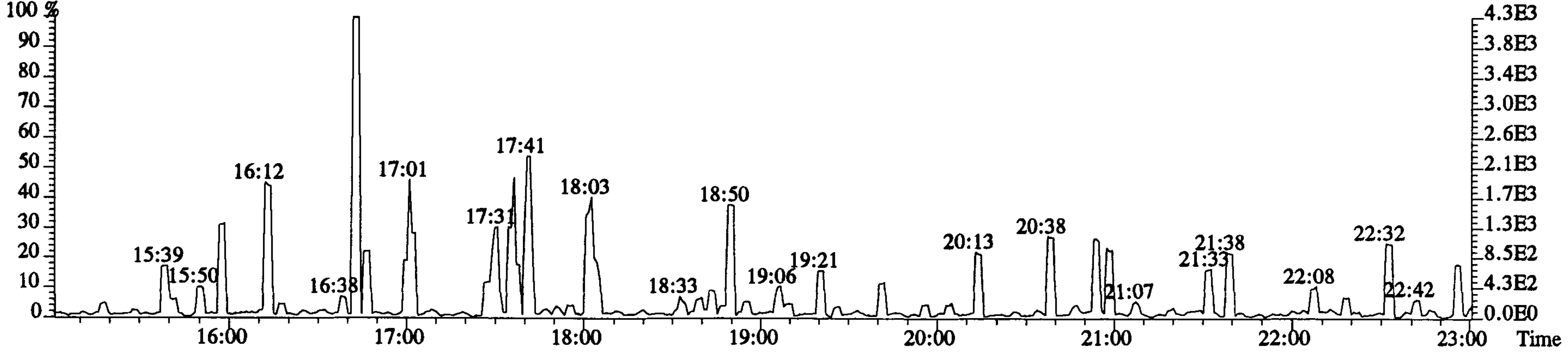
339.8597 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,104.0,1.00%,F,T)



341.8567 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,984.0,1.00%,F,T)

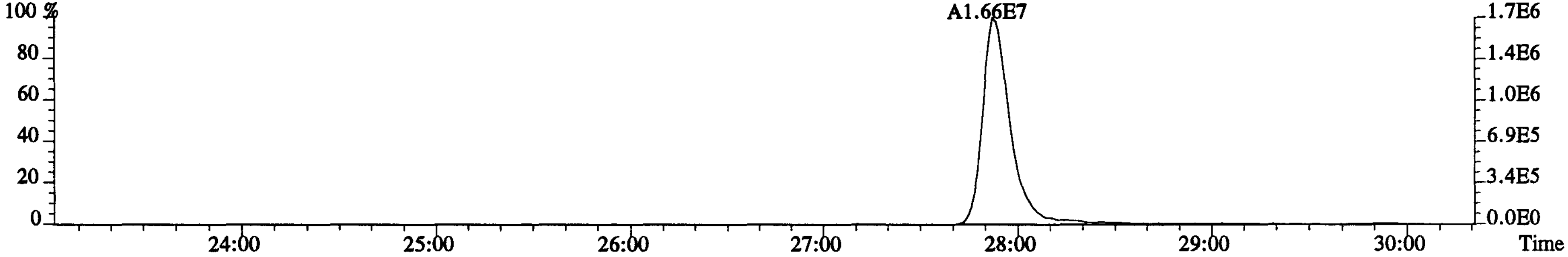


409.7974 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,72.0,1.00%,F,T)

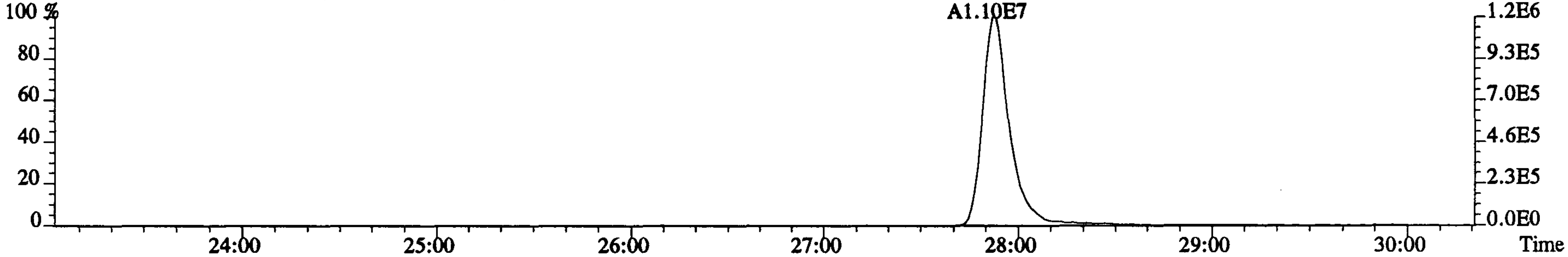


File:18OC104D5 #1-470 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES

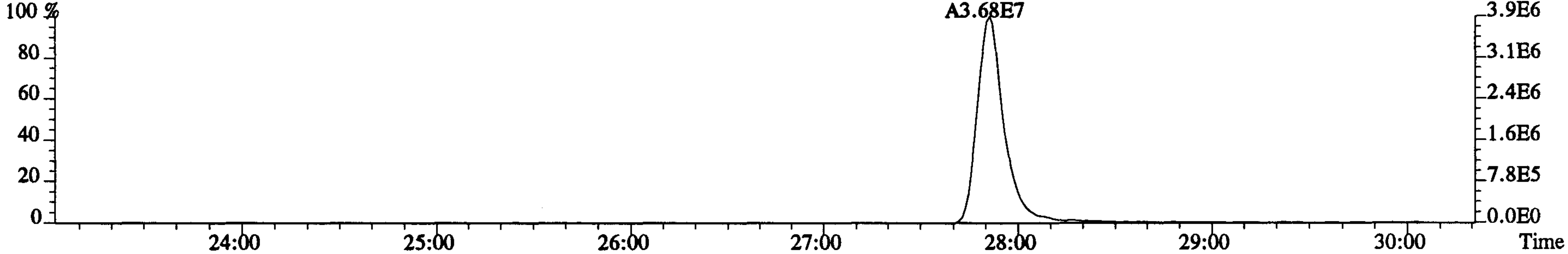
355.8546 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2084.0,1.00%,F,T)



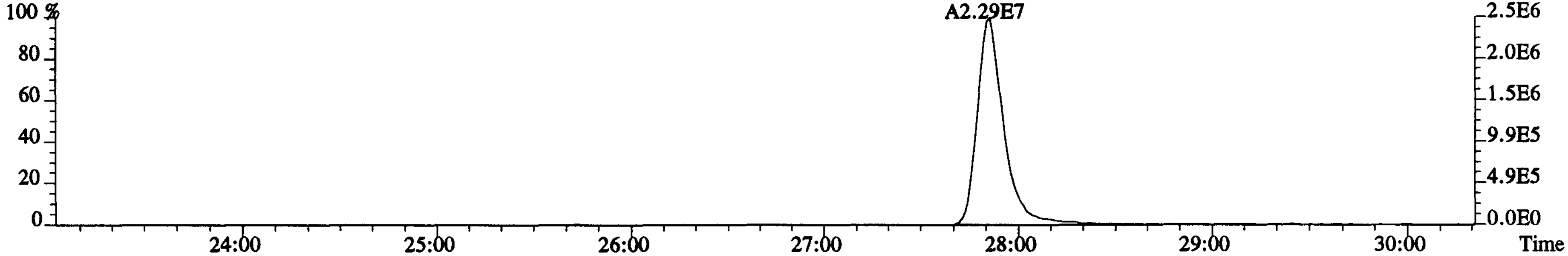
357.8516 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,752.0,1.00%,F,T)



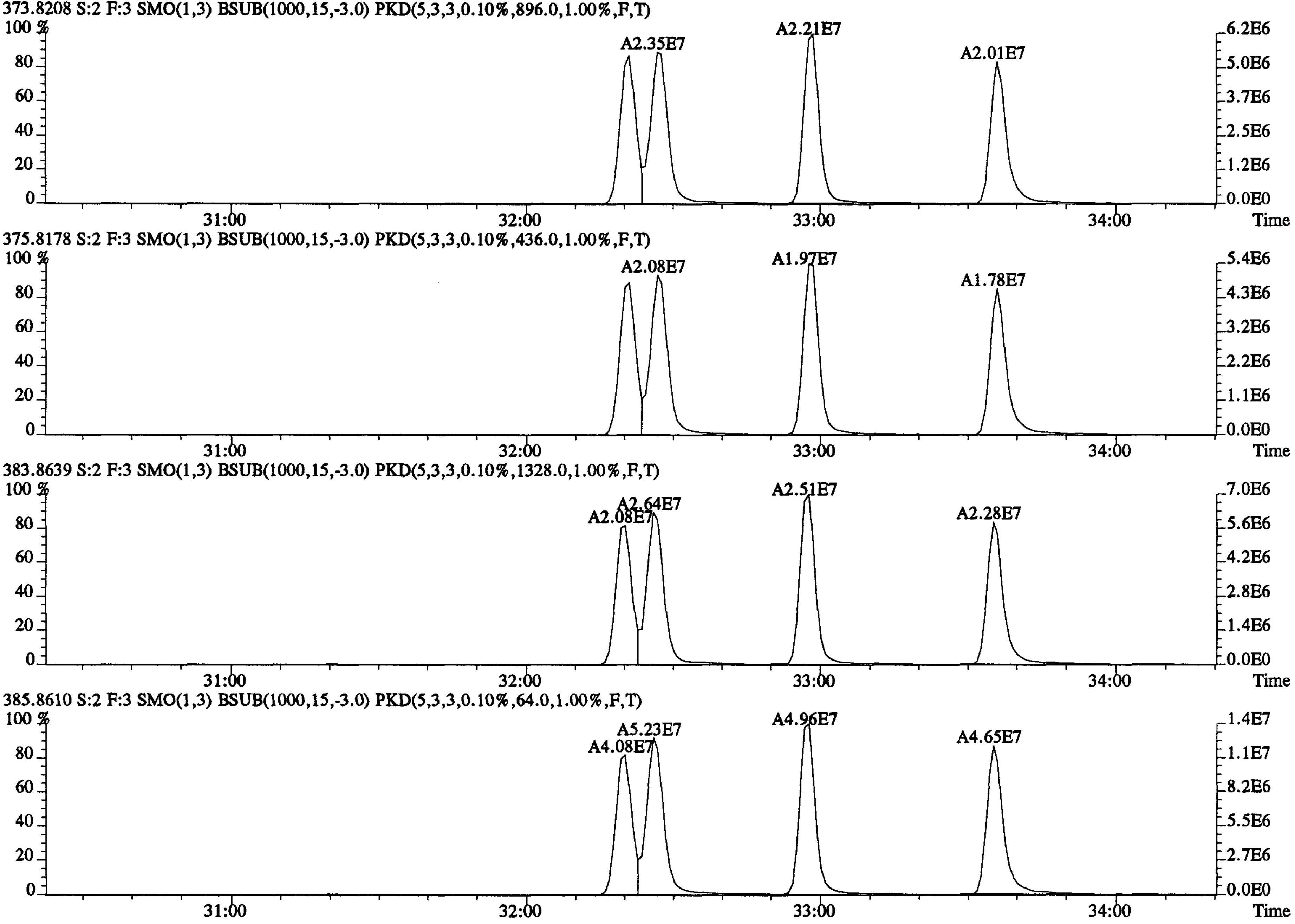
367.8949 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3640.0,1.00%,F,T)



369.8919 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,264.0,1.00%,F,T)

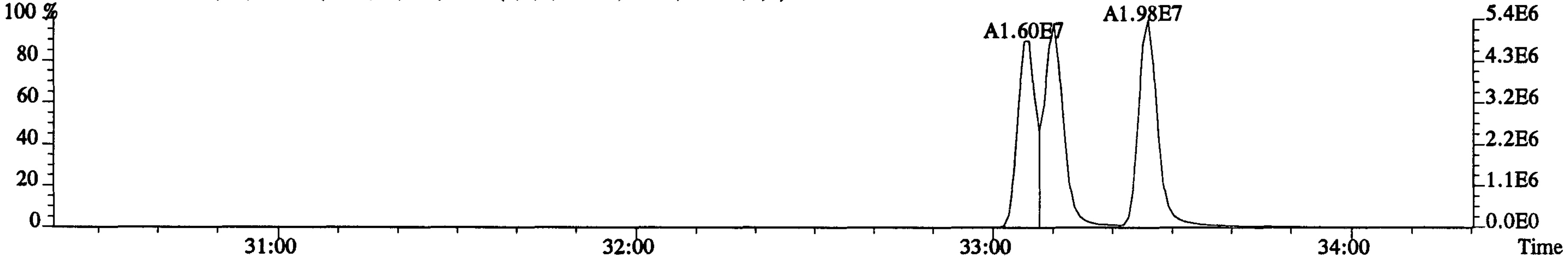


File:18OC104D5 #1-286 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES

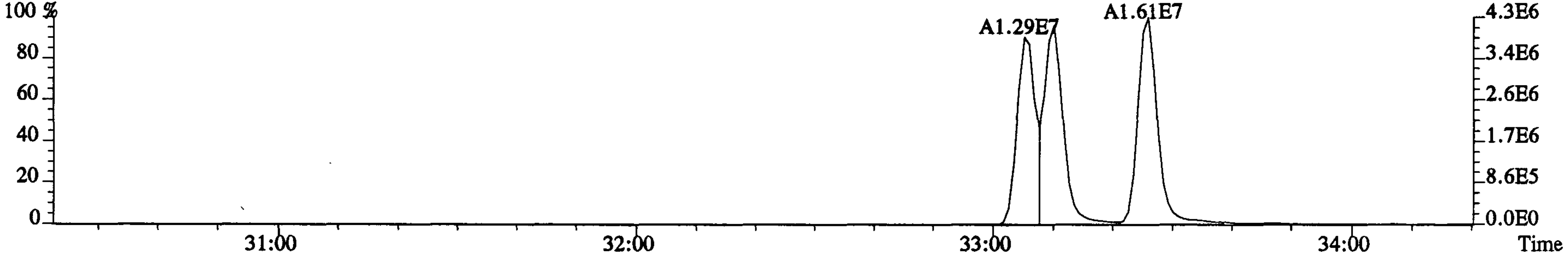


File:18OC104D5 #1-286 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES

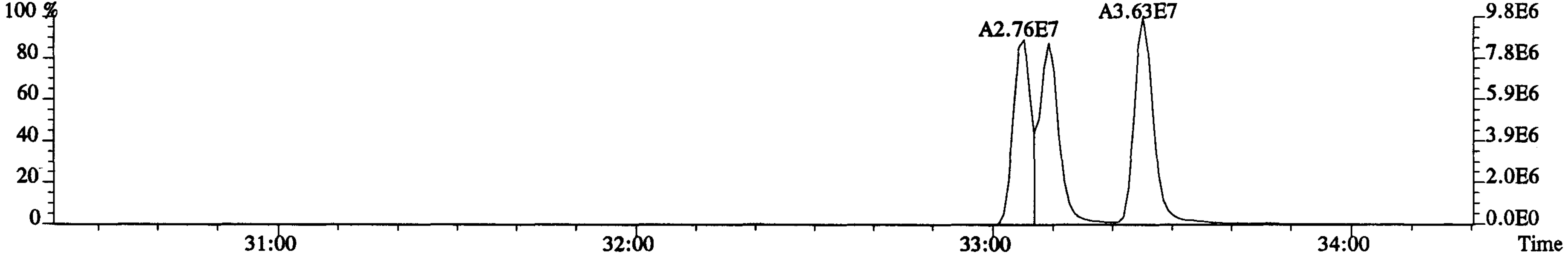
389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,748.0,1.00%,F,T)



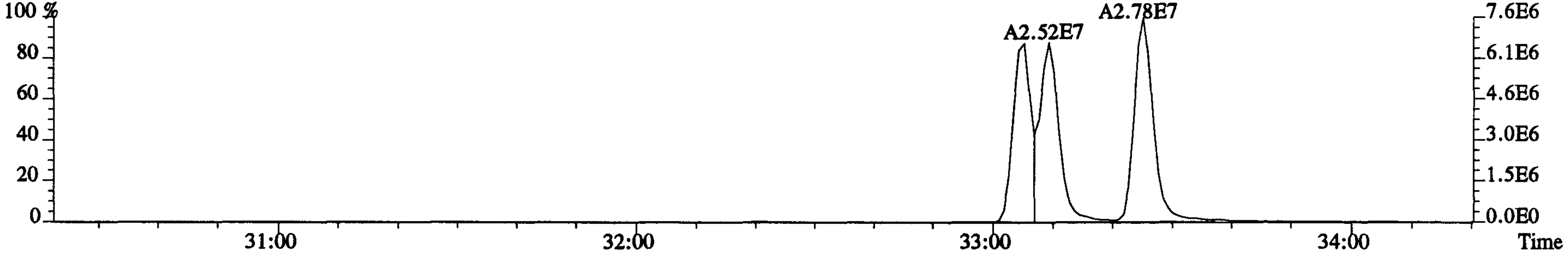
391.8127 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,956.0,1.00%,F,T)



401.8559 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,116.0,1.00%,F,T)

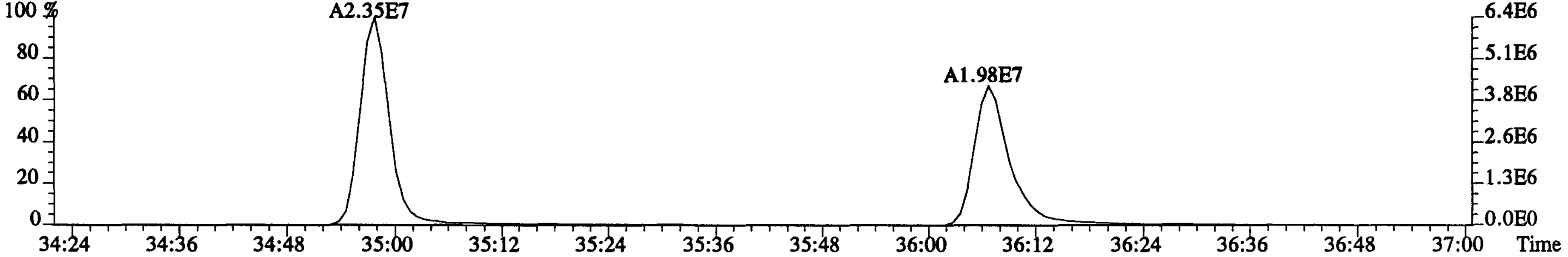


403.8529 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,156.0,1.00%,F,T)

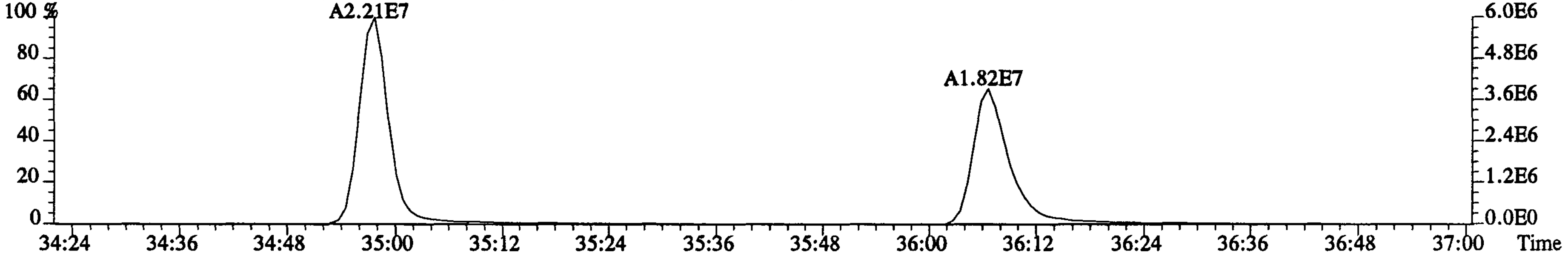


File:18OC104D5 #1-201 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES

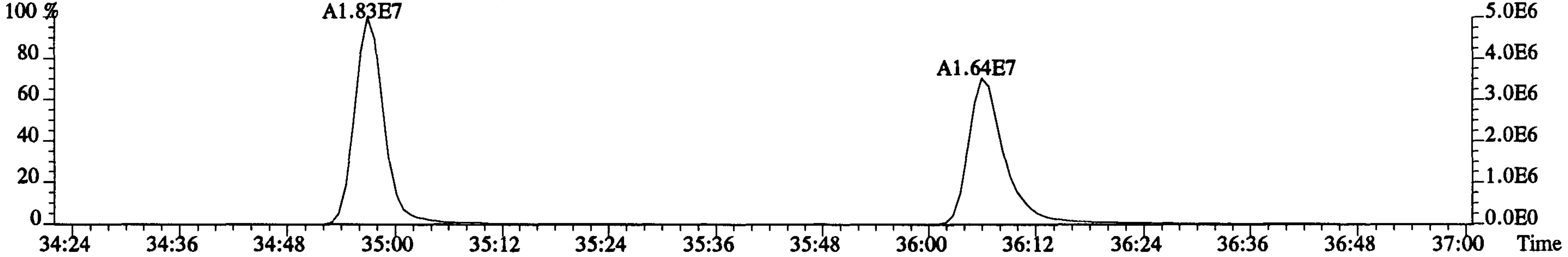
407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6628.0,1.00%,F,T)



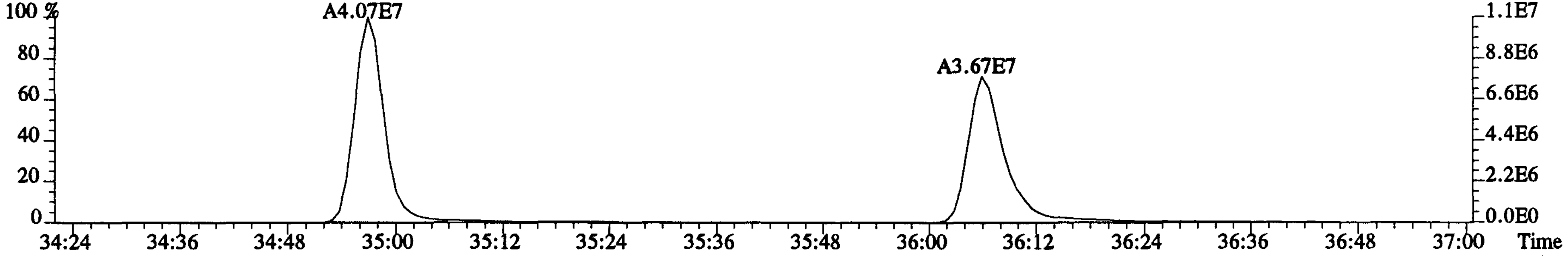
409.7789 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6980.0,1.00%,F,T)



417.8253 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5816.0,1.00%,F,T)

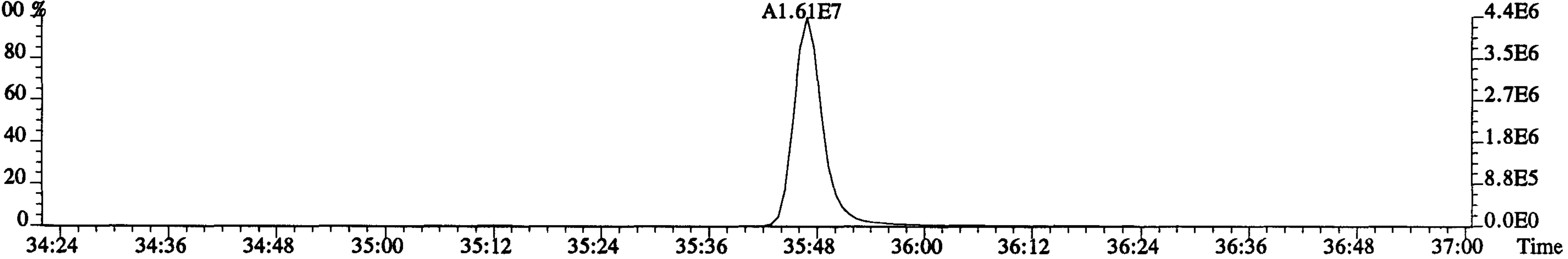


419.8220 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8532.0,1.00%,F,T)

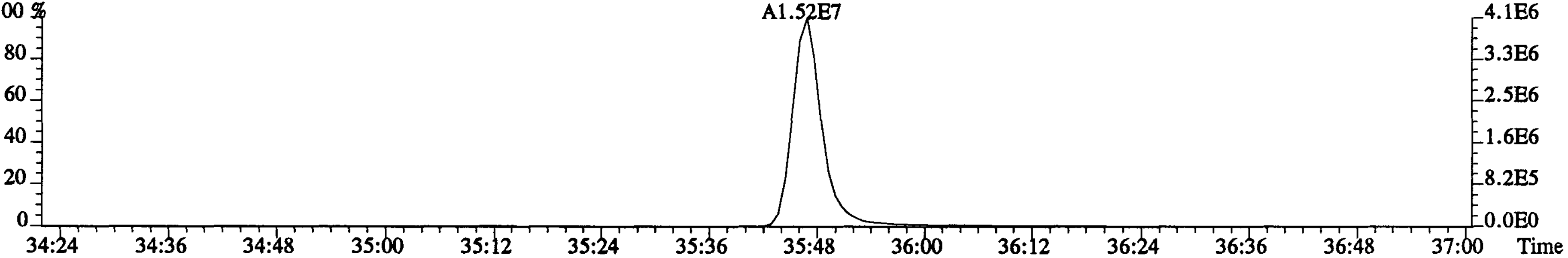


File:18OC104D5 #1-201 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES

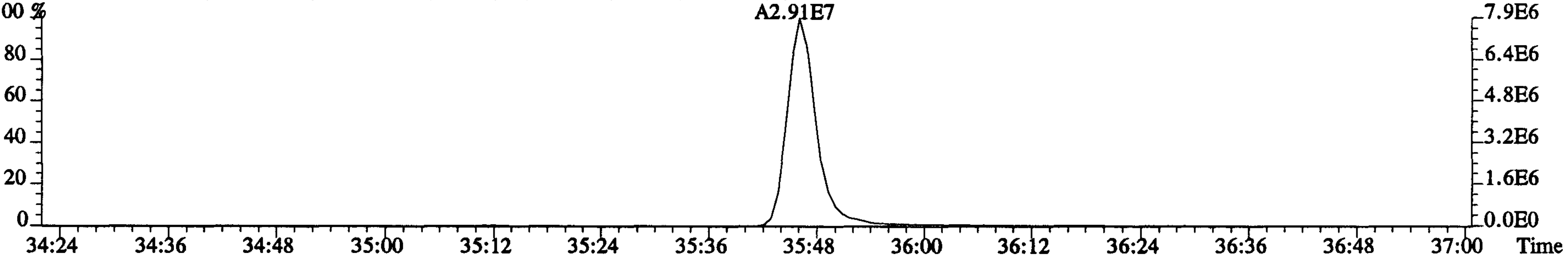
423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2332.0,1.00%,F,T)



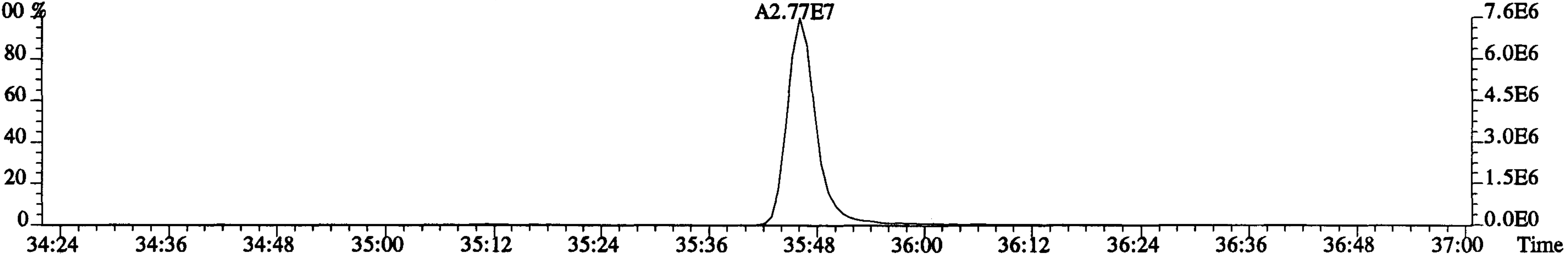
425.7737 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1980.0,1.00%,F,T)



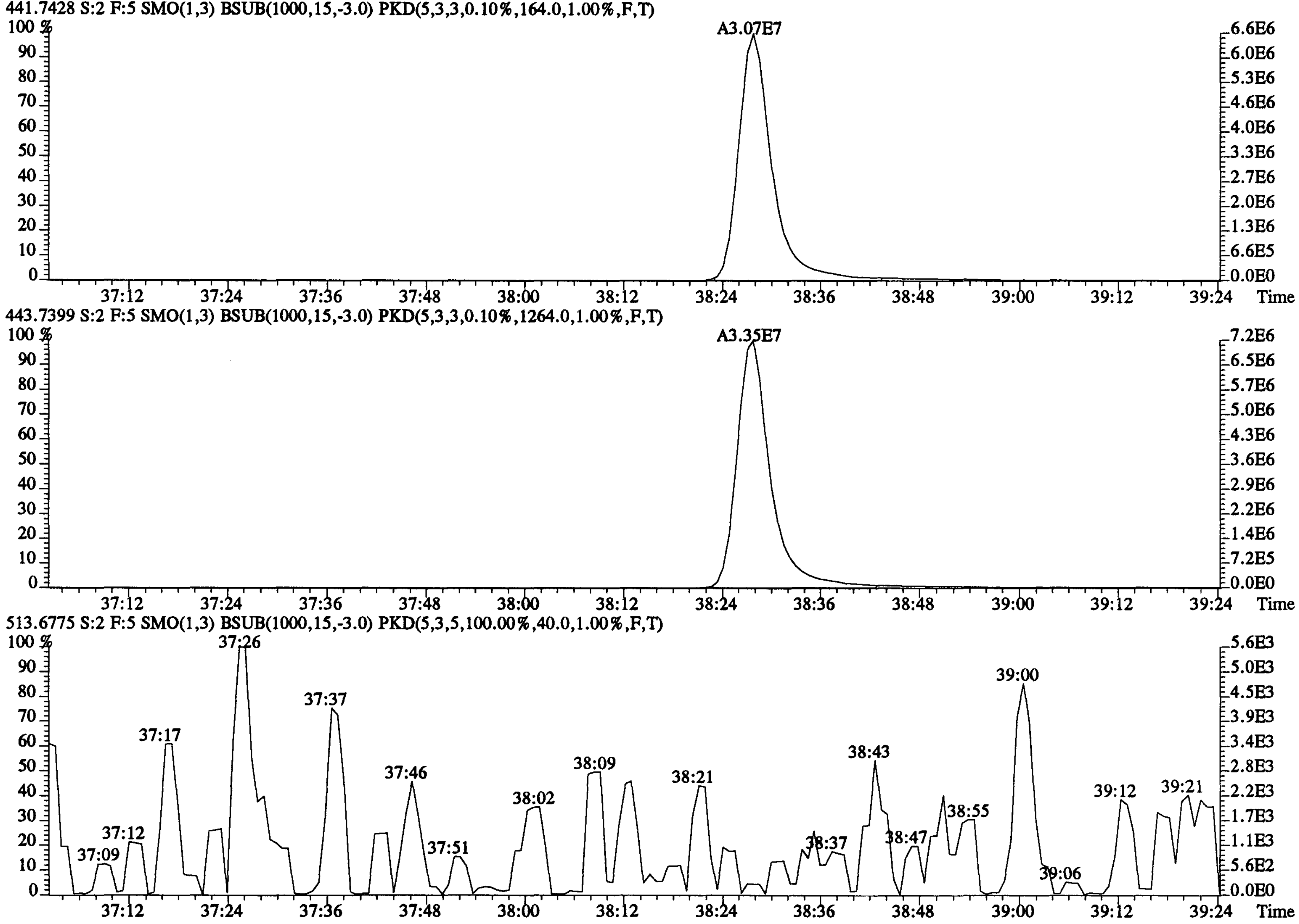
435.8169 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7072.0,1.00%,F,T)



437.8140 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3816.0,1.00%,F,T)



File:18OC104D5 #1-192 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES



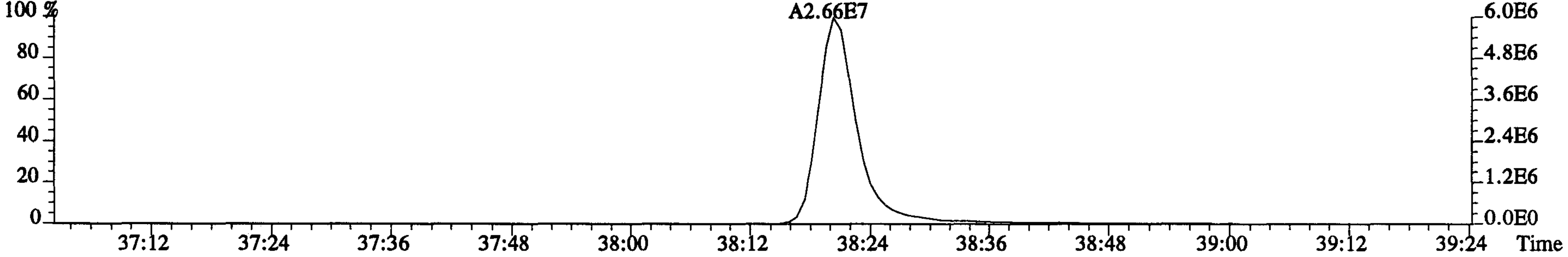
441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,164.0,1.00%,F,T)

443.7399 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1264.0,1.00%,F,T)

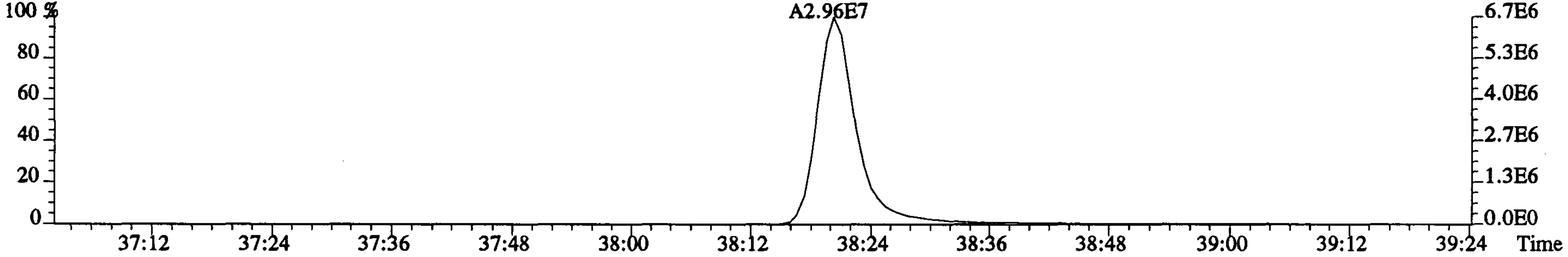
513.6775 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,40.0,1.00%,F,T)

File:18OC104D5 #1-192 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES

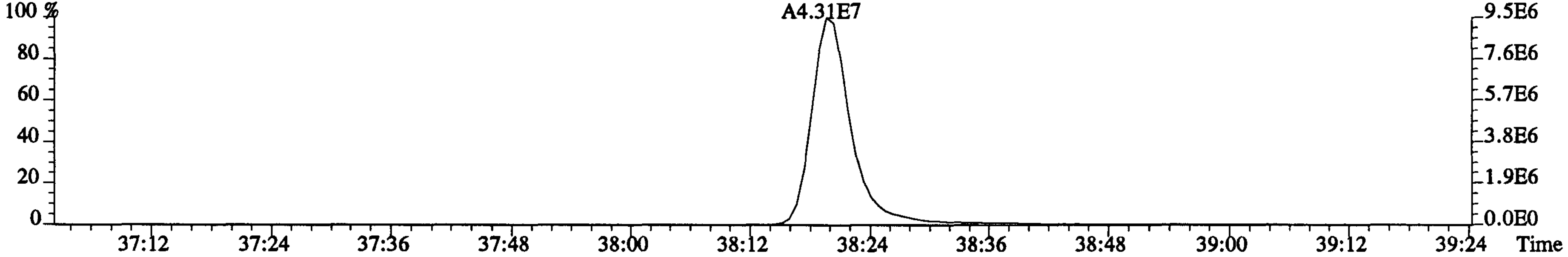
457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3516.0,1.00%,F,T)



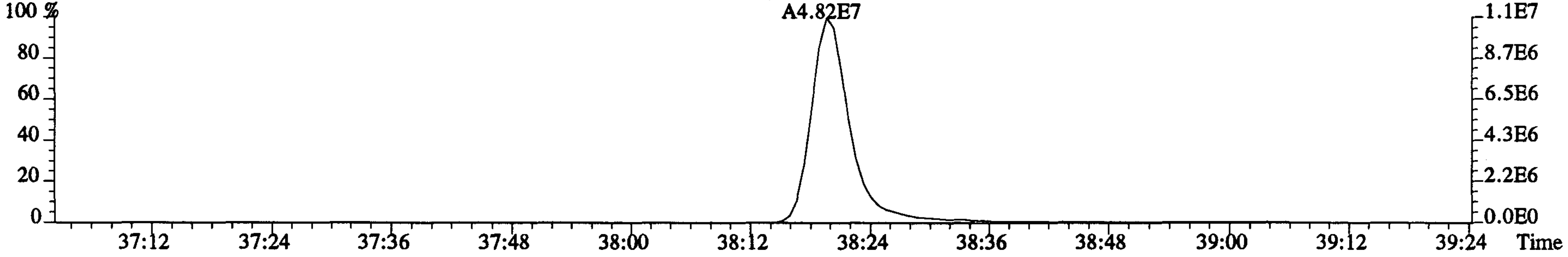
459.7348 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,788.0,1.00%,F,T)



469.7779 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44.0,1.00%,F,T)

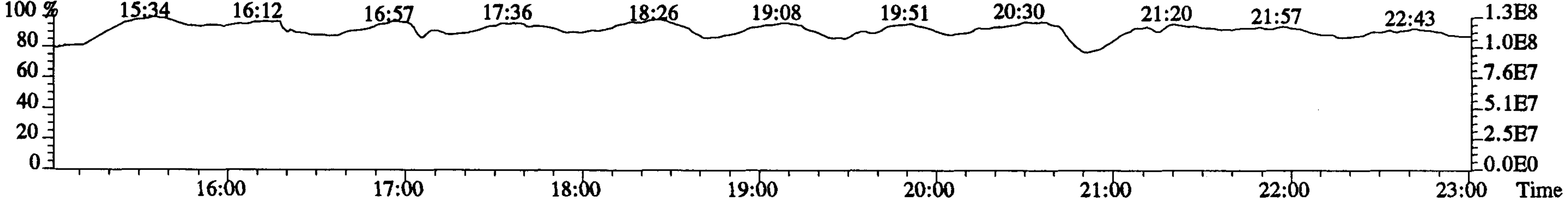


471.7750 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,76.0,1.00%,F,T)

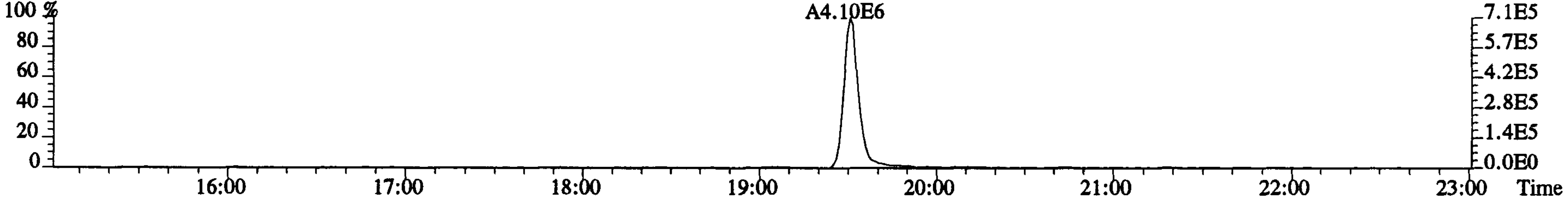


File:18OC104D5 #1-530 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES

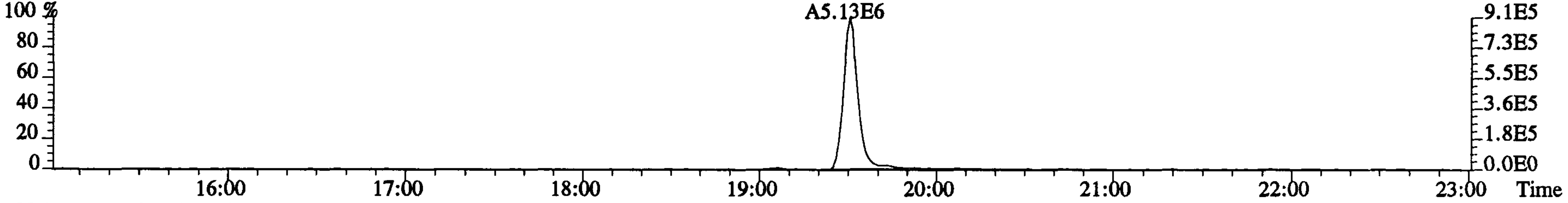
292.9825 S:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



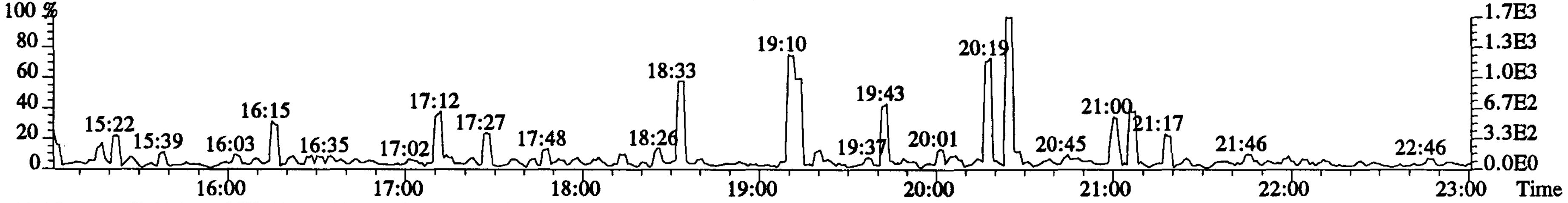
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1172.0,1.00%,F,T)



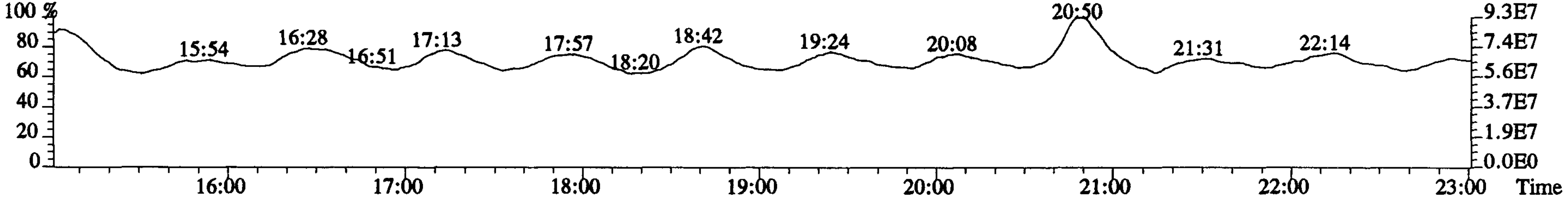
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2008.0,1.00%,F,T)



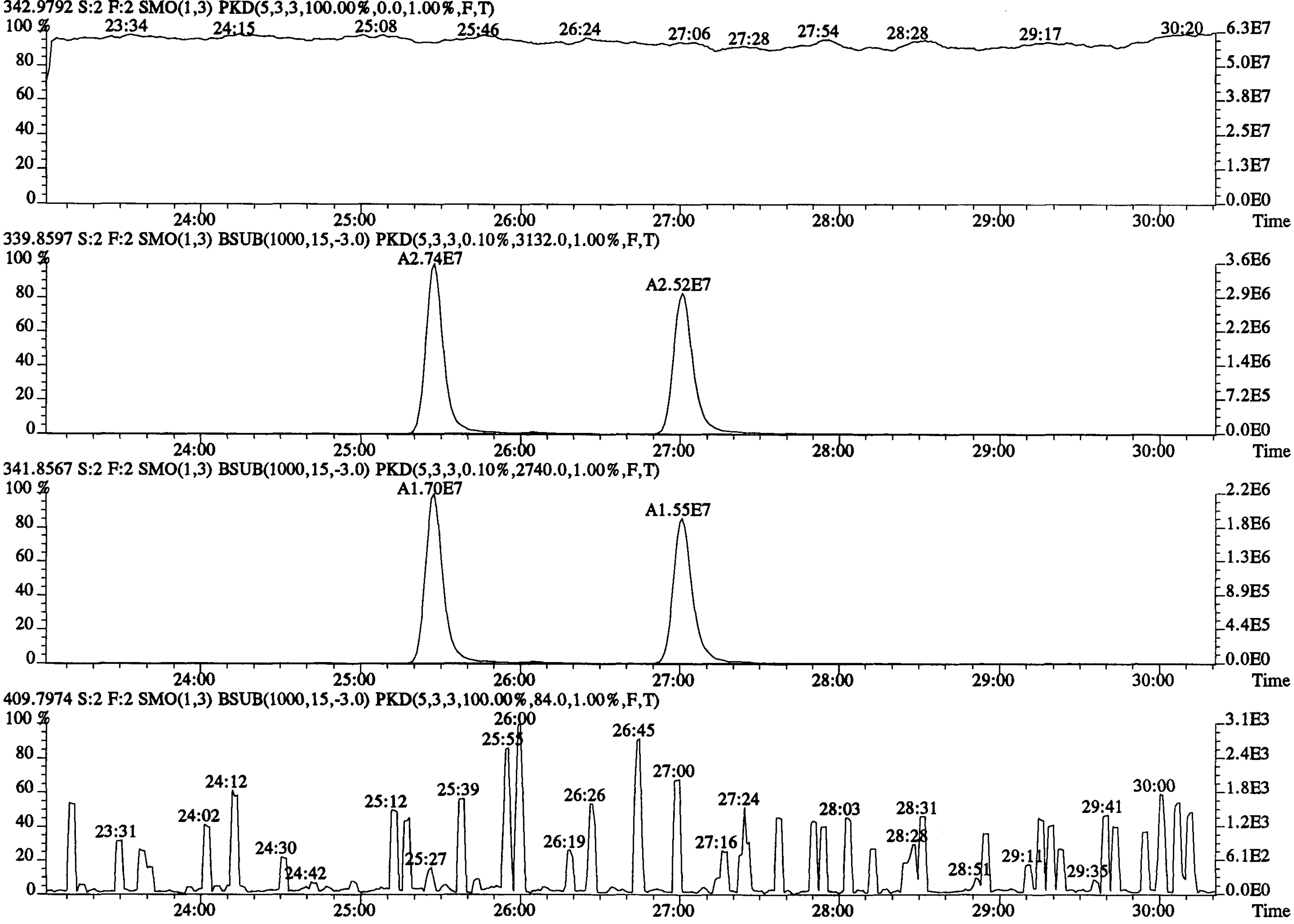
375.8364 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,80.0,1.00%,F,T)



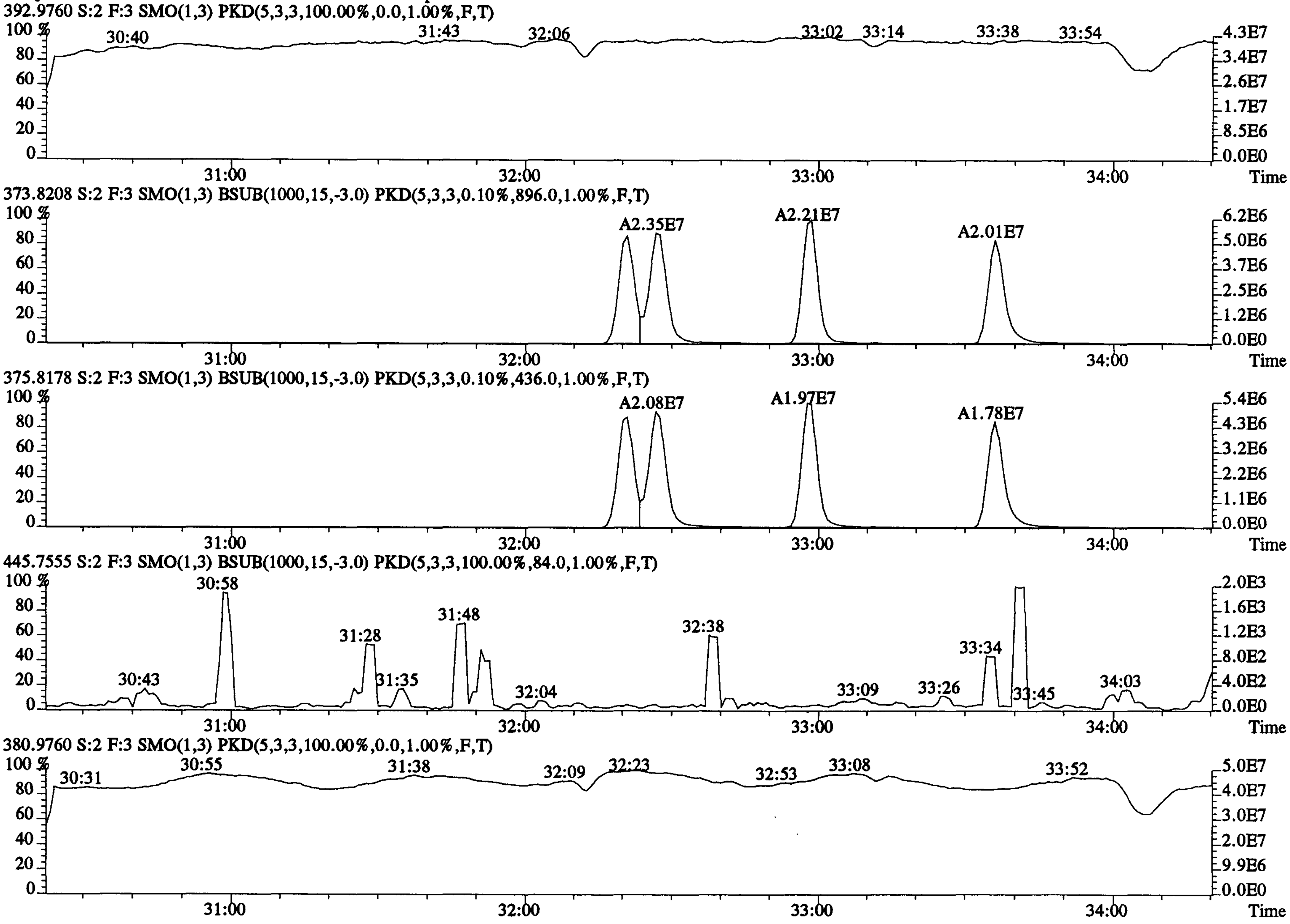
330.9792 S:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:18OC104D5 #1-470 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES

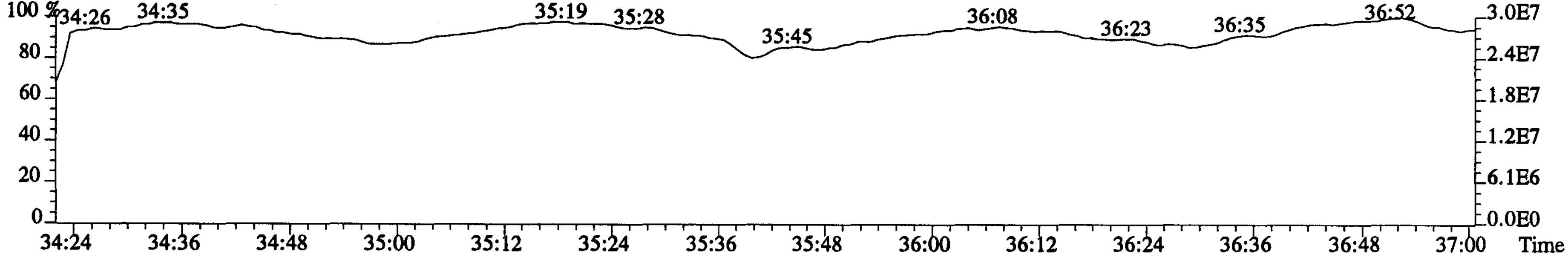


File:18OC104D5 #1-286 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES

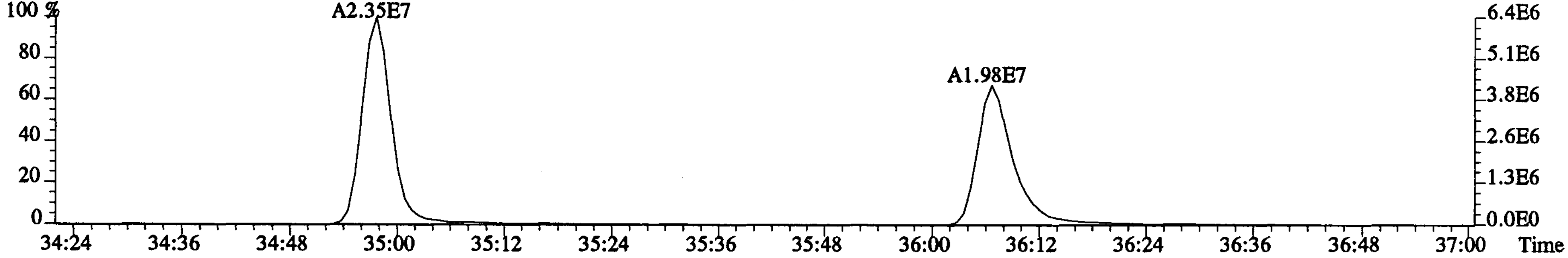


File:18OC104D5 #1-201 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES

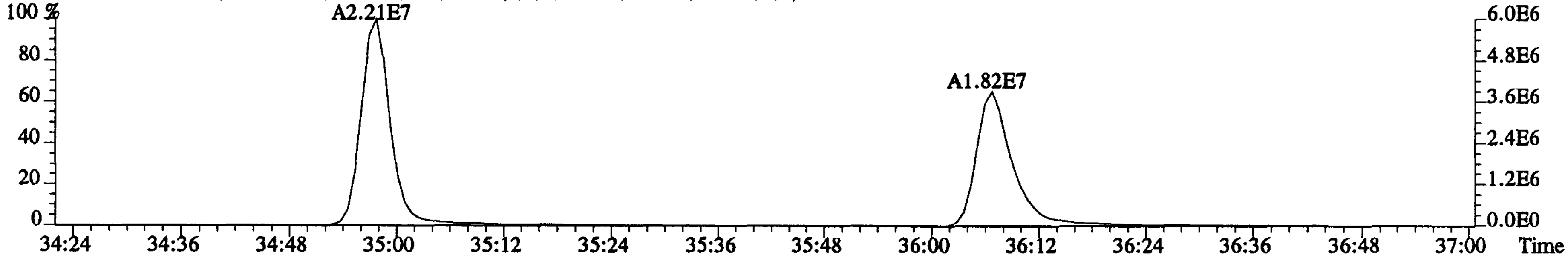
430.9728 S:2 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



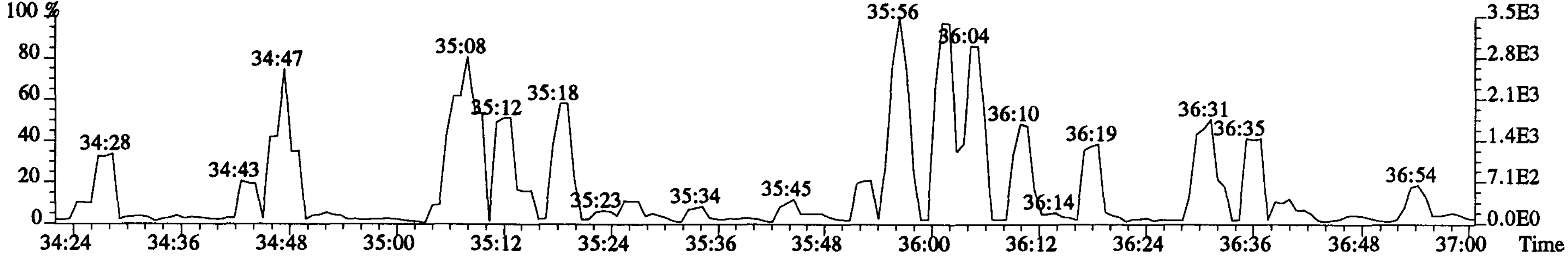
407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6628.0,1.00%,F,T)



409.7789 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6980.0,1.00%,F,T)

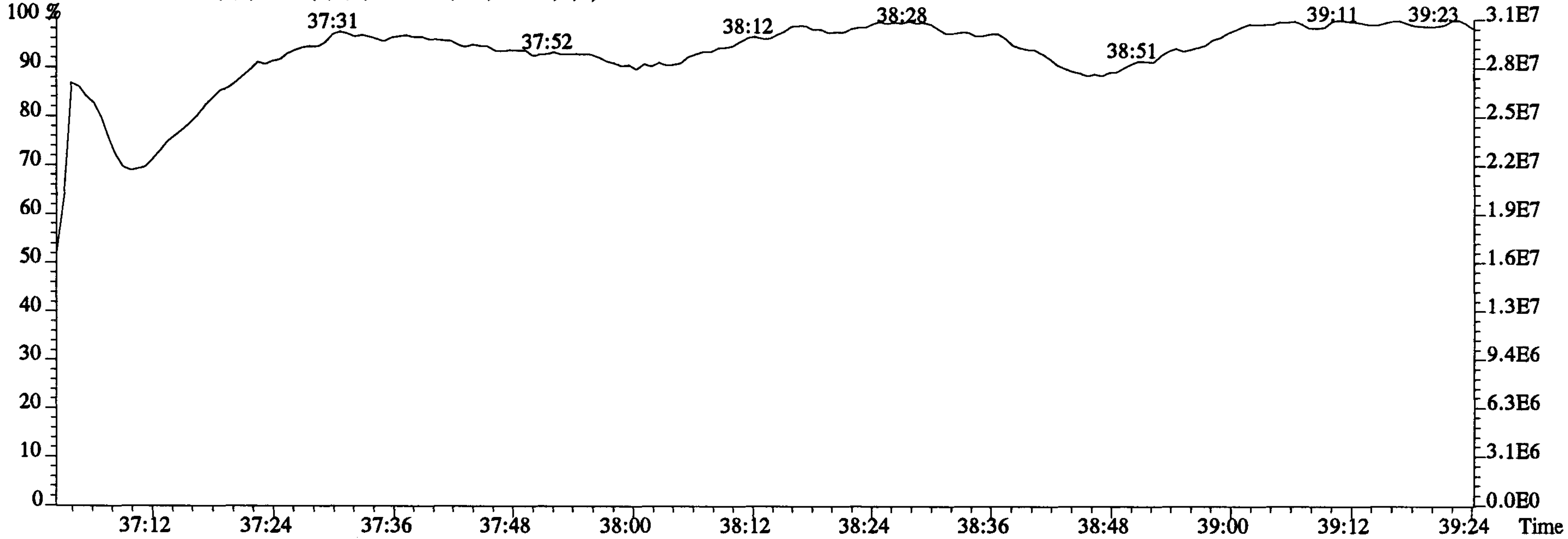


479.7165 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,120.0,1.00%,F,T)

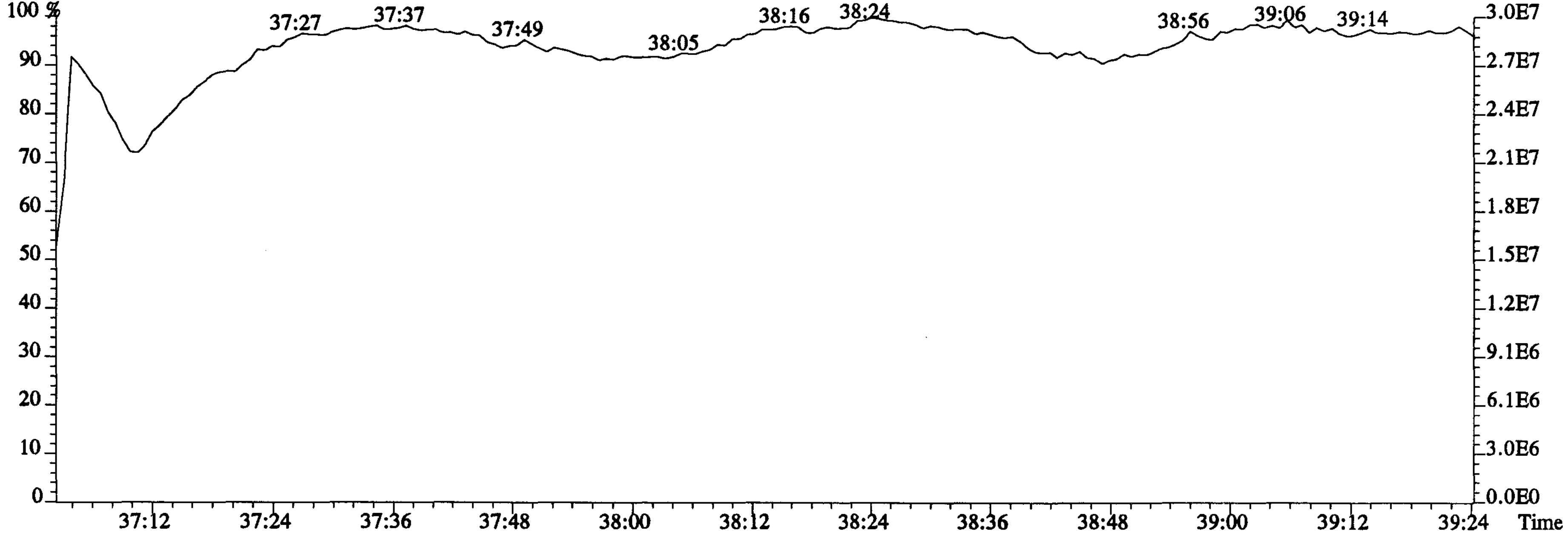


File:18OC104D5 #1-192 Acq:18-OCT-2010 09:51:30 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DIOXINRES

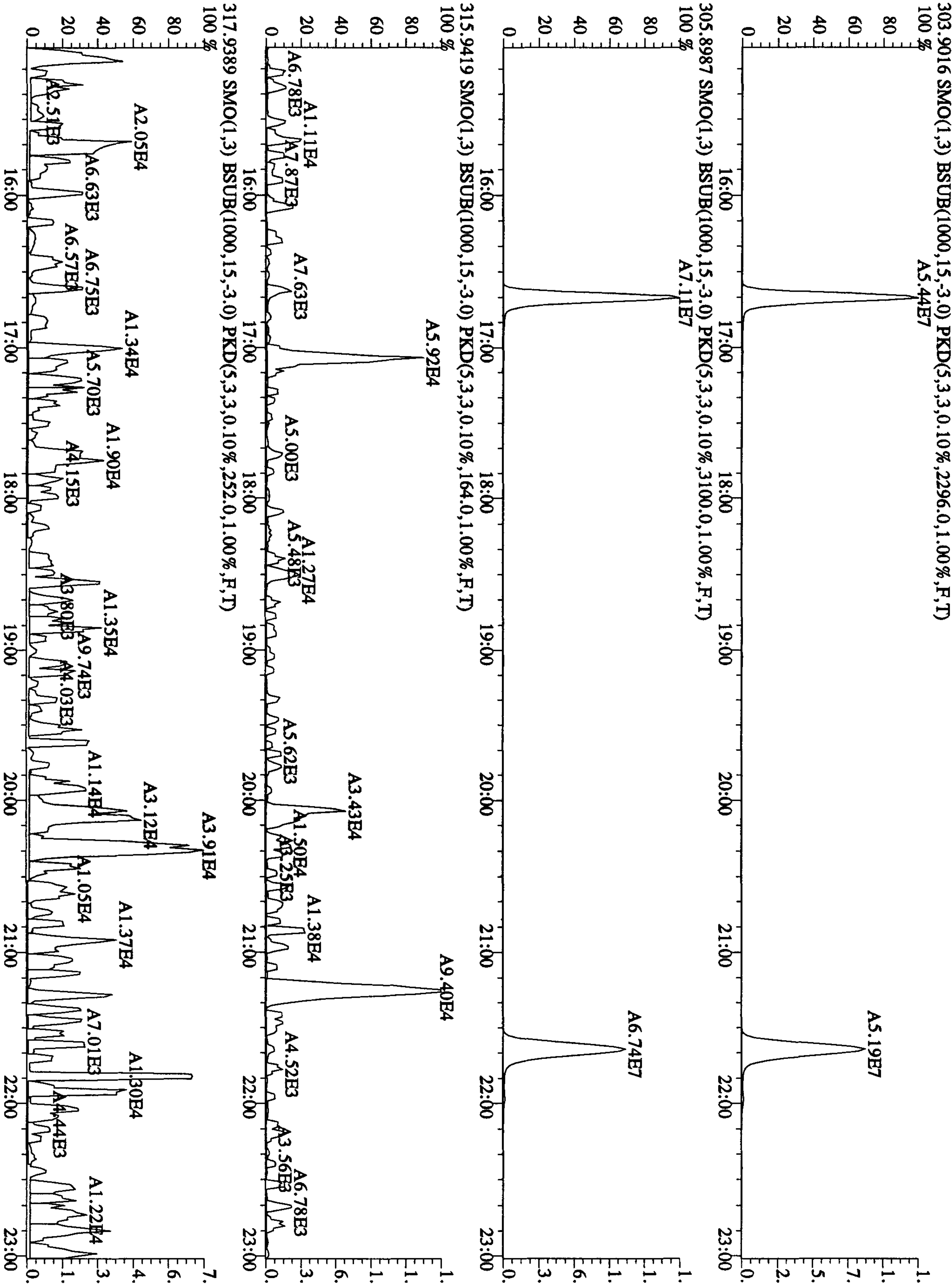
454.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



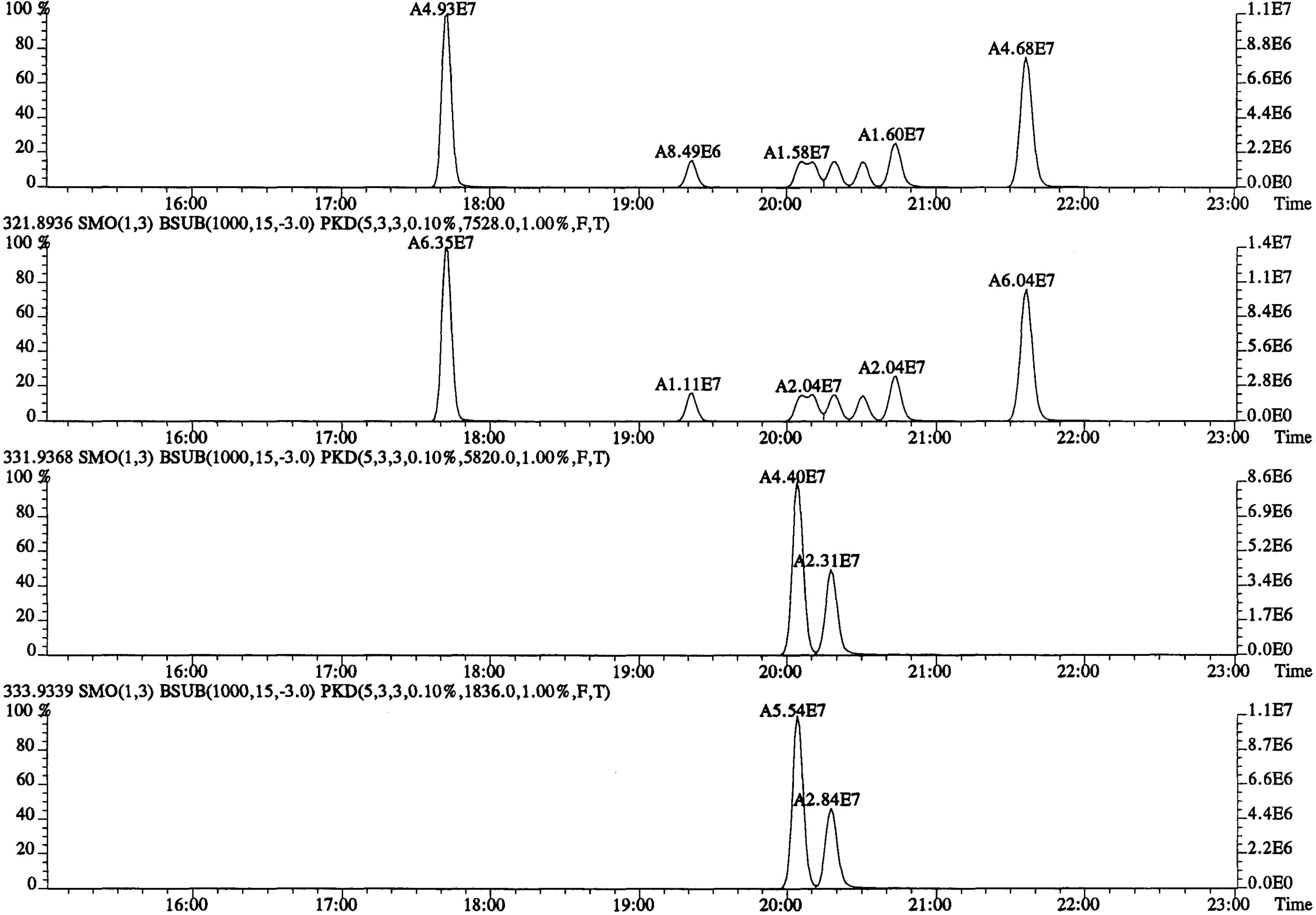
442.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:18OC104D5 #1-530 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES



File:18OC104D5 #1-530 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES



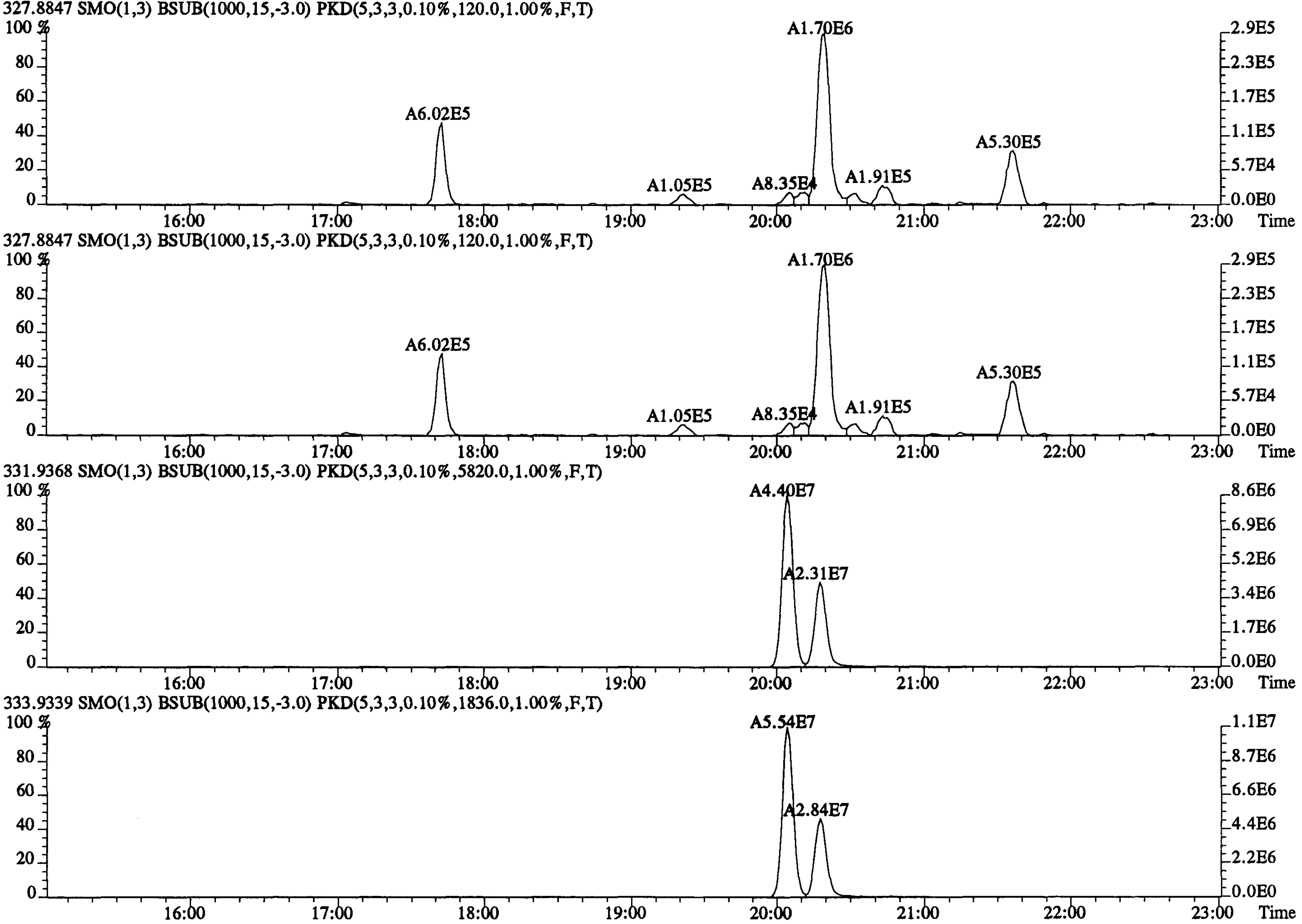
319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2436.0,1.00%,F,T)

321.8936 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7528.0,1.00%,F,T)

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

333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1836.0,1.00%,F,T)

File:18OC104D5 #1-530 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES



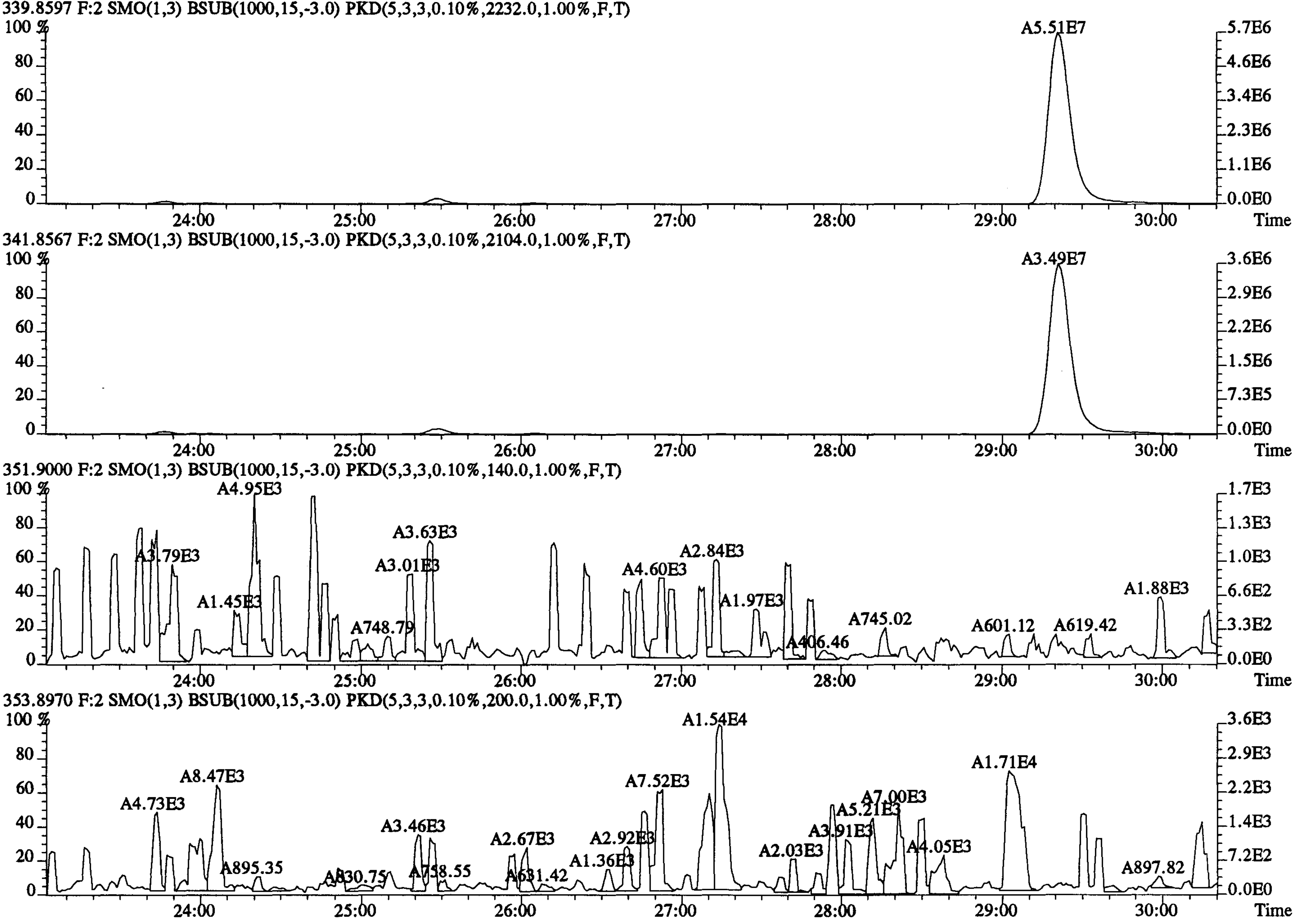
327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,120.0,1.00%,F,T)

327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,120.0,1.00%,F,T)

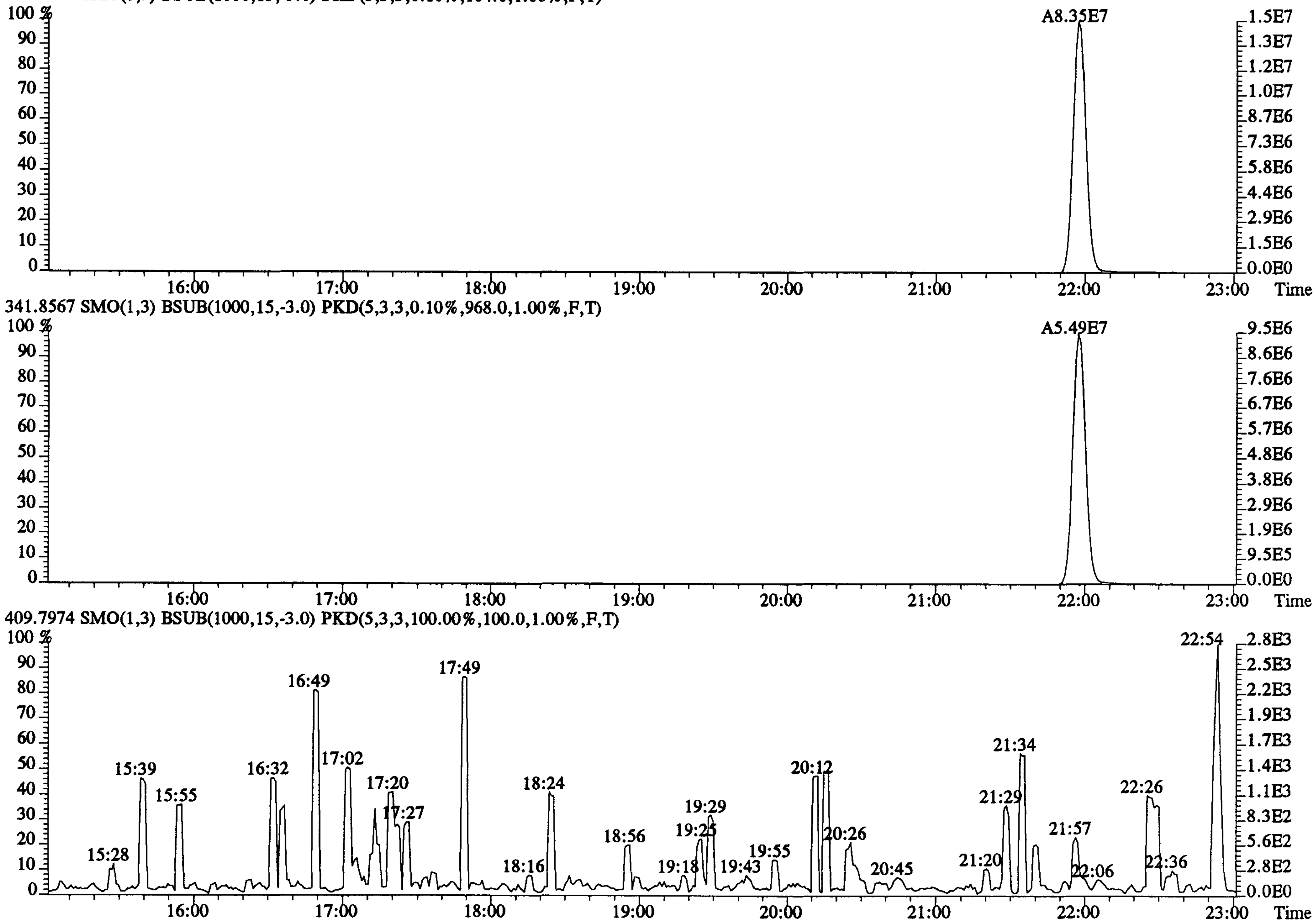
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5820.0,1.00%,F,T)

333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1836.0,1.00%,F,T)

File:18OC104D5 #1-469 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES



File:18OC104D5 #1-530 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES

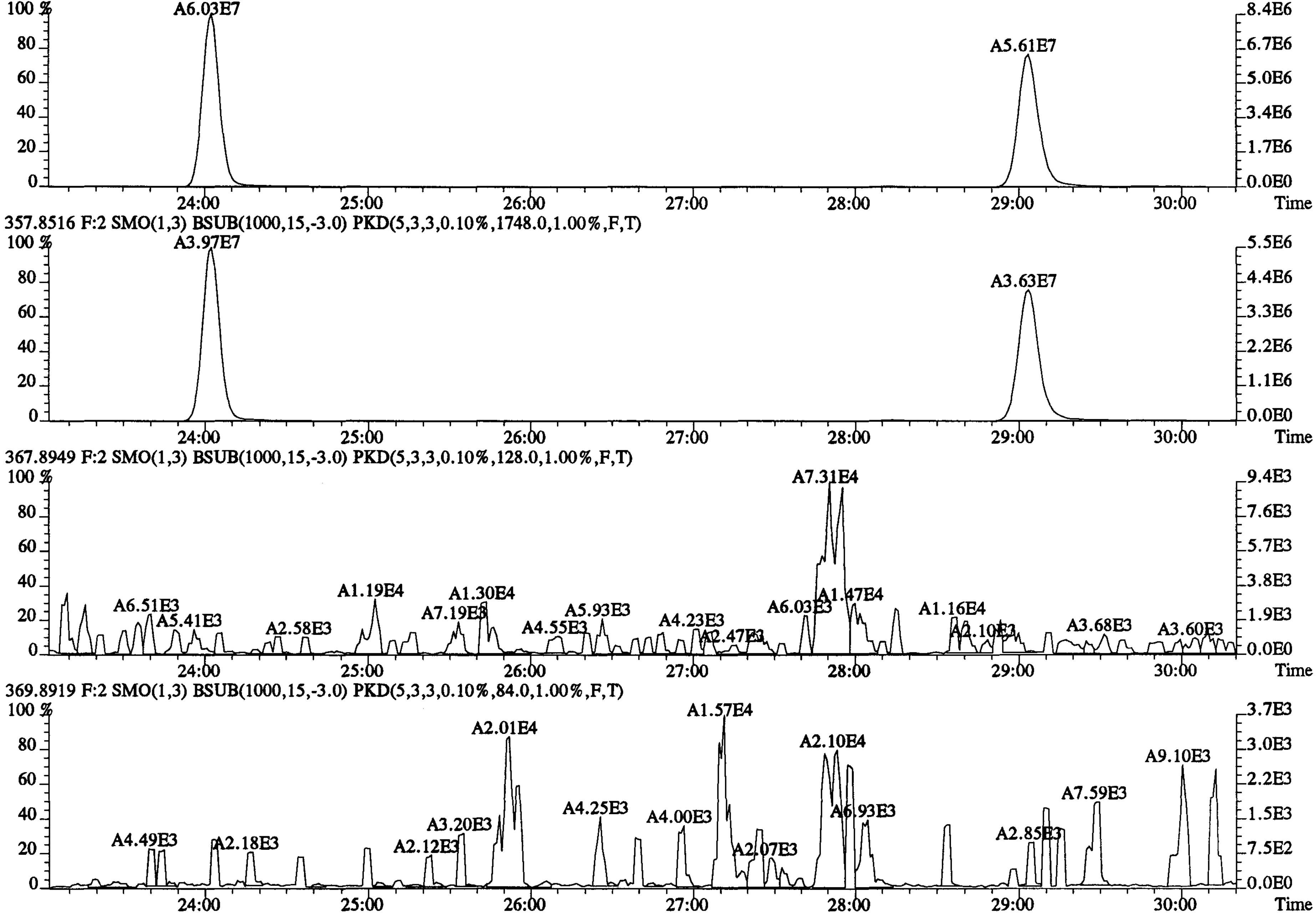


339.8597 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,104.0,1.00%,F,T)

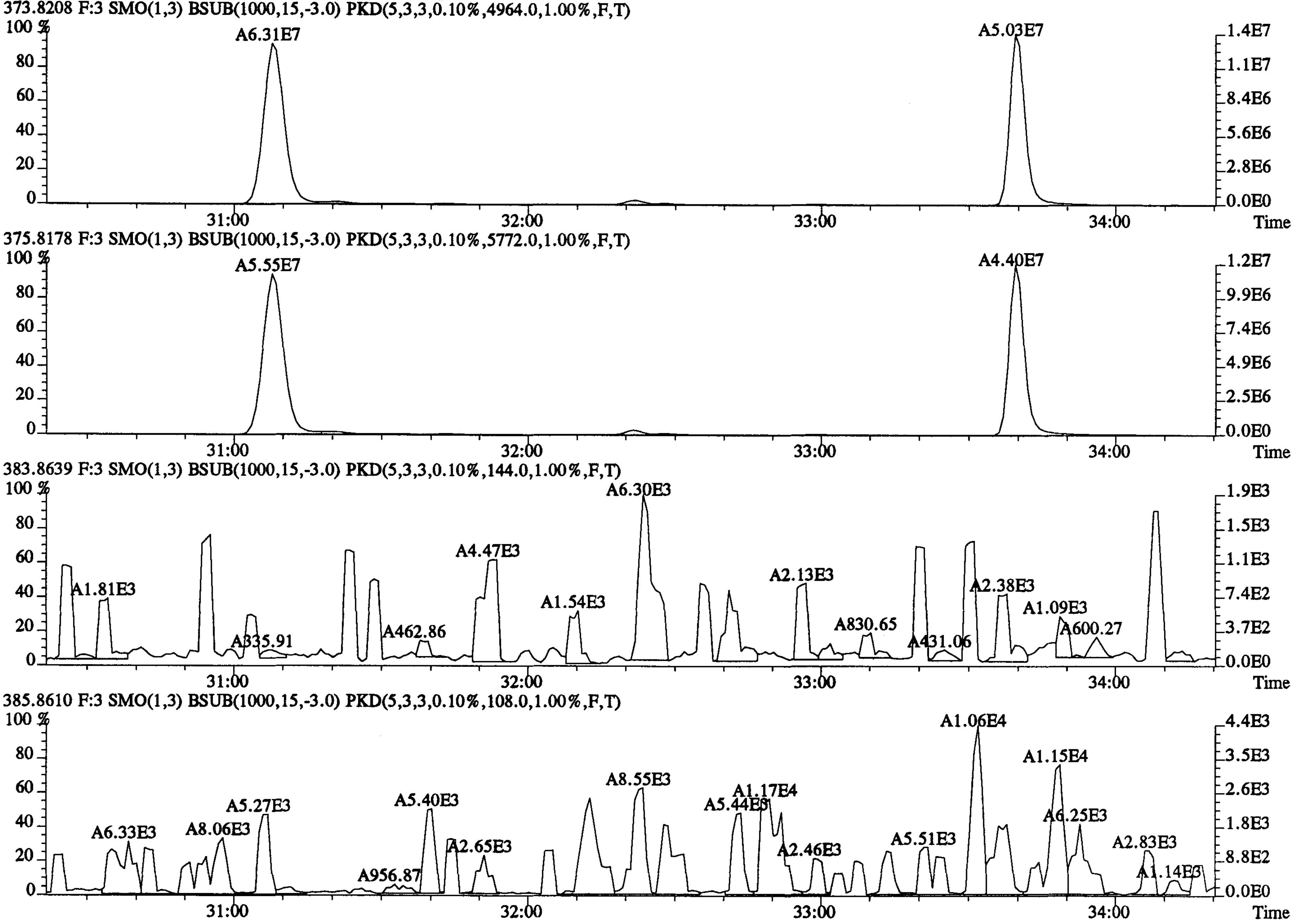
341.8567 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,968.0,1.00%,F,T)

409.7974 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,100.0,1.00%,F,T)

File:18OC104D5 #1-469 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES
355.8546 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2724.0,1.00%,F,T)



File:18OC104D5 #1-287 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES



373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4964.0,1.00%,F,T)

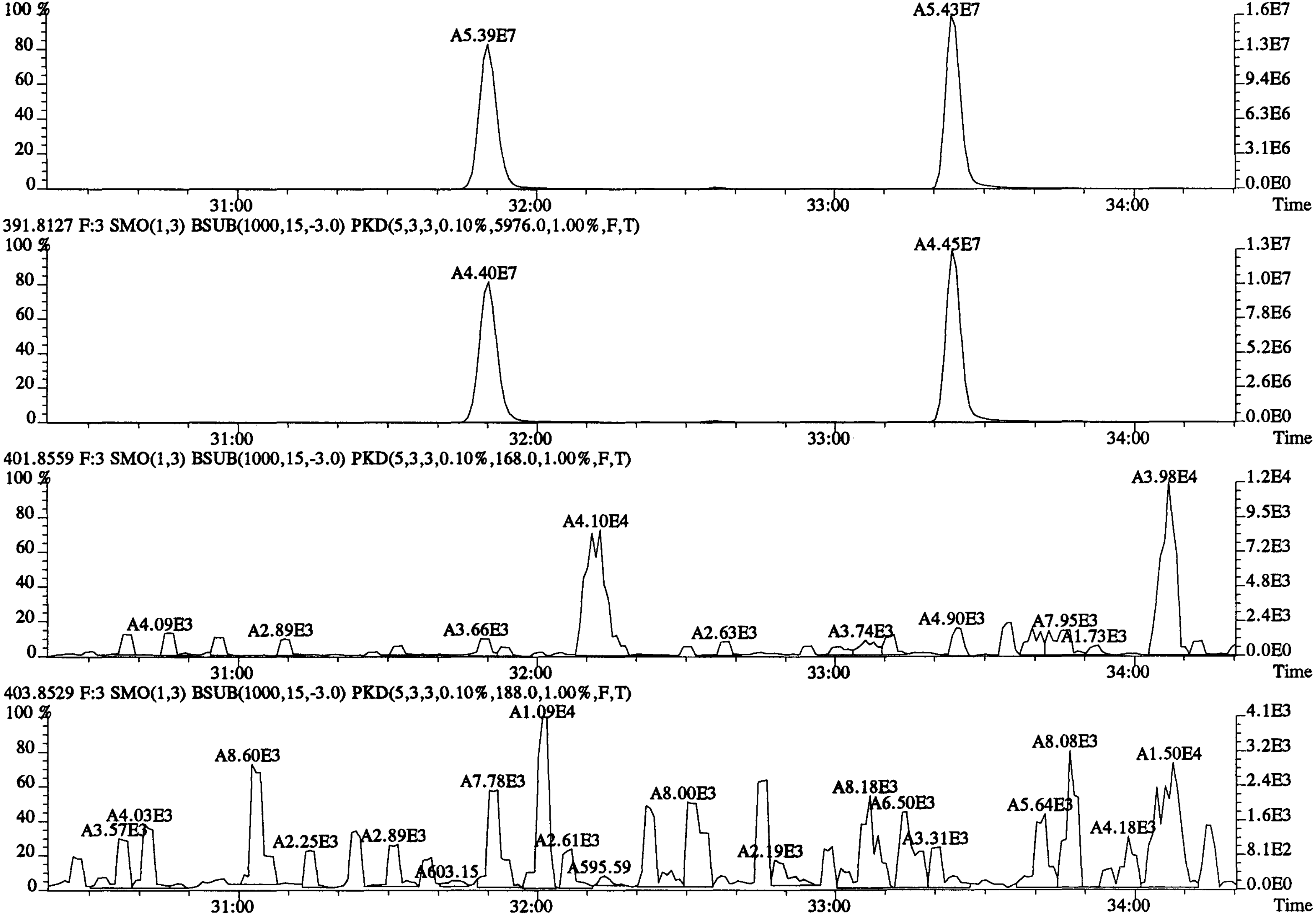
375.8178 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5772.0,1.00%,F,T)

383.8639 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,144.0,1.00%,F,T)

385.8610 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,108.0,1.00%,F,T)

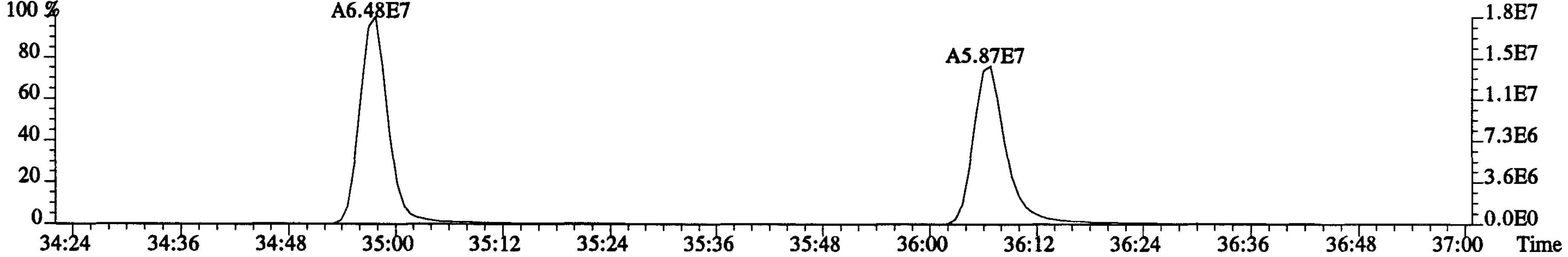
File:18OC104D5 #1-287 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES

389.8157 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3488.0,1.00%,F,T)

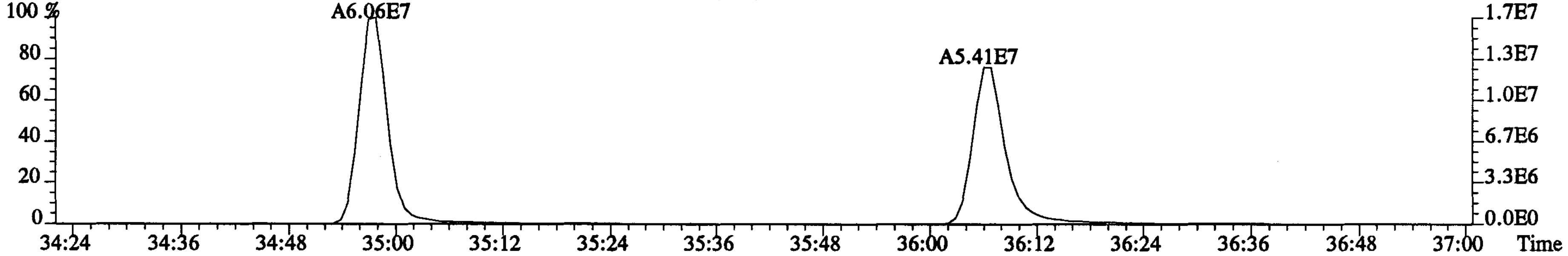


File:18OC104D5 #1-201 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES

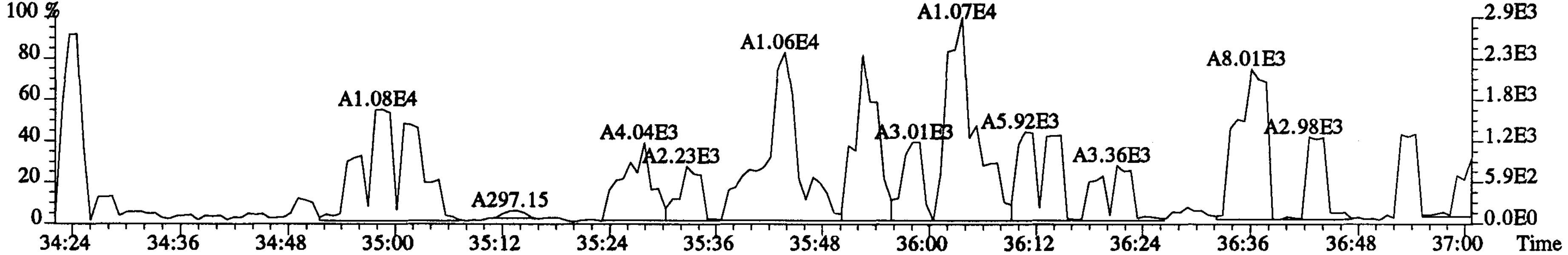
407.7818 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3416.0,1.00%,F,T)



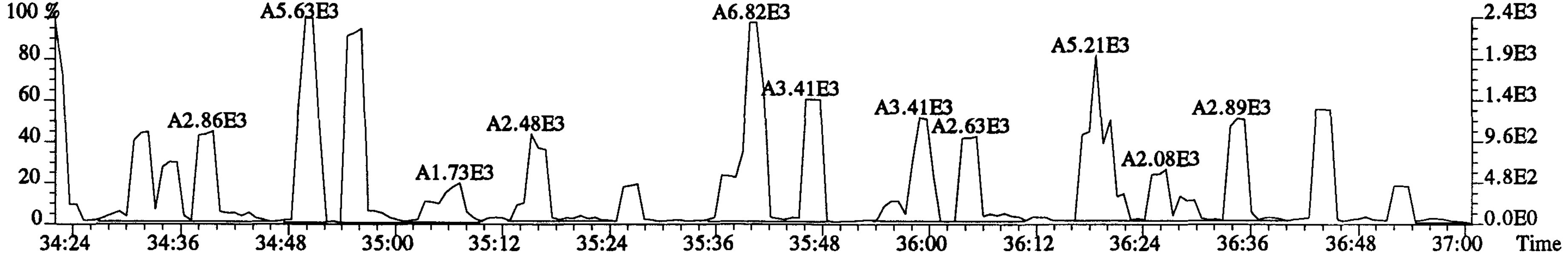
409.7789 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6720.0,1.00%,F,T)



417.8253 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,120.0,1.00%,F,T)

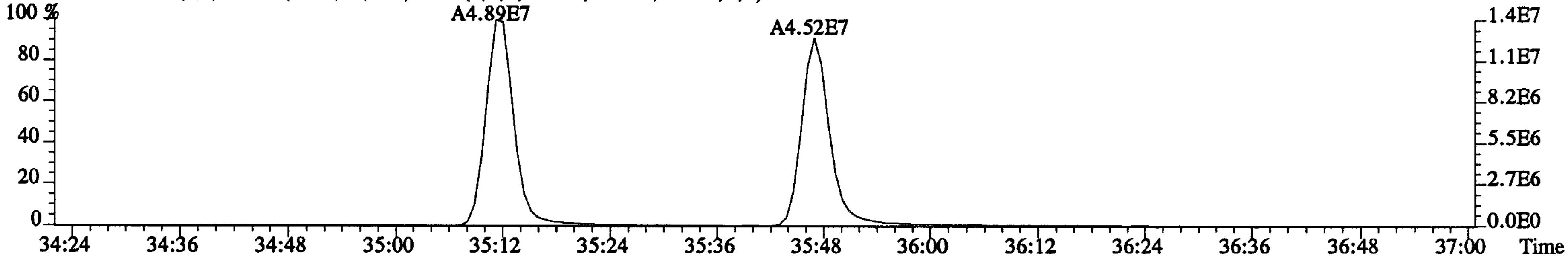


419.8220 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68.0,1.00%,F,T)

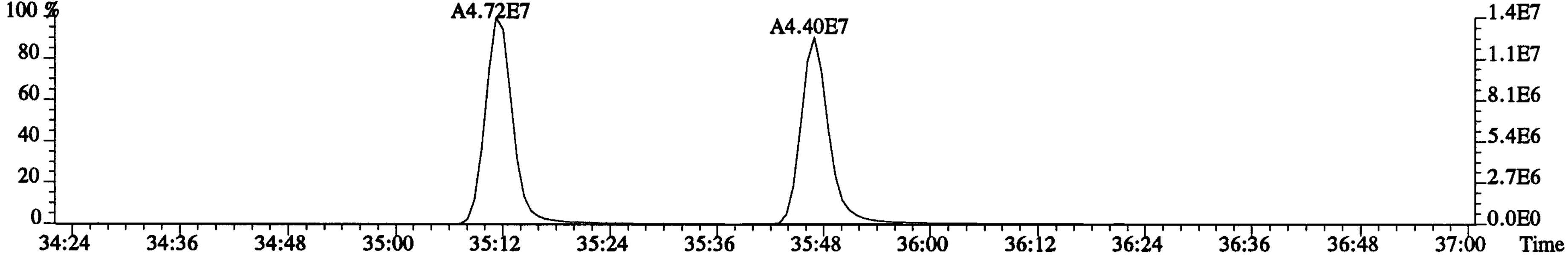


File:18OC104D5 #1-201 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES

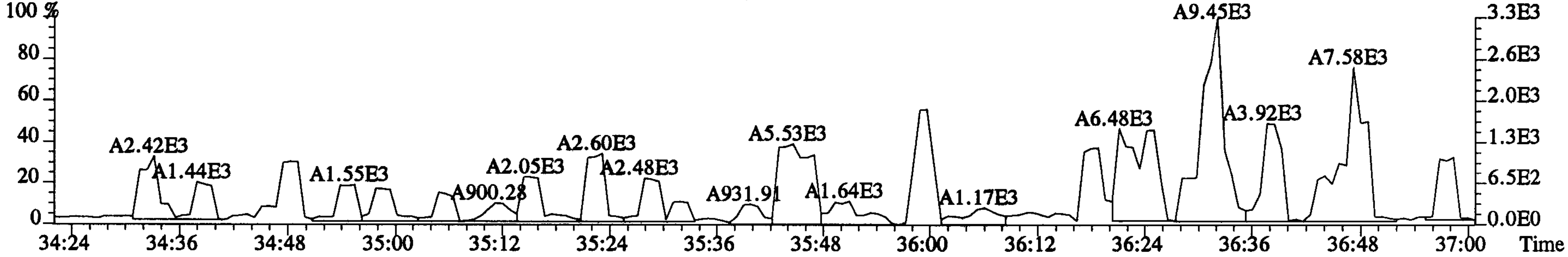
423.7766 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8672.0,1.00%,F,T)



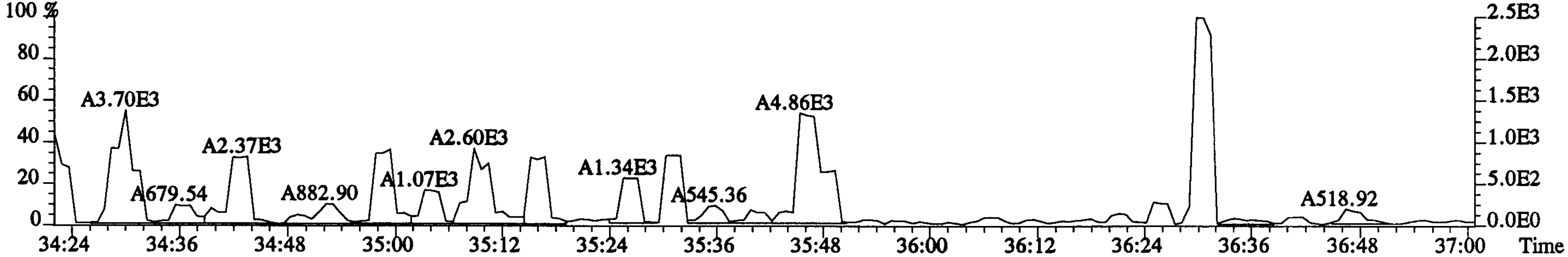
425.7737 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4148.0,1.00%,F,T)



435.8169 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,156.0,1.00%,F,T)



437.8140 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,72.0,1.00%,F,T)

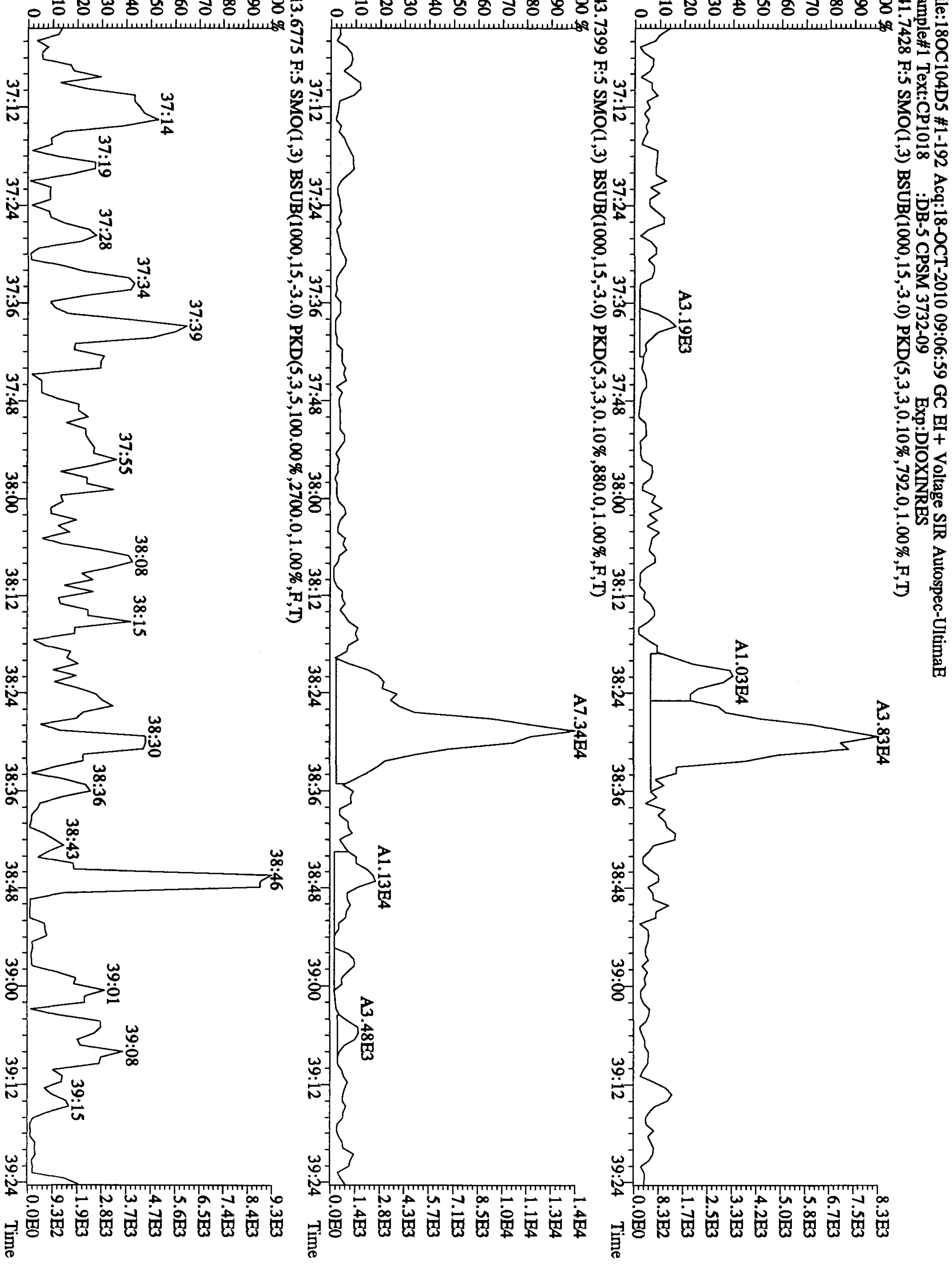


File:18OC104D5 #1-192 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES

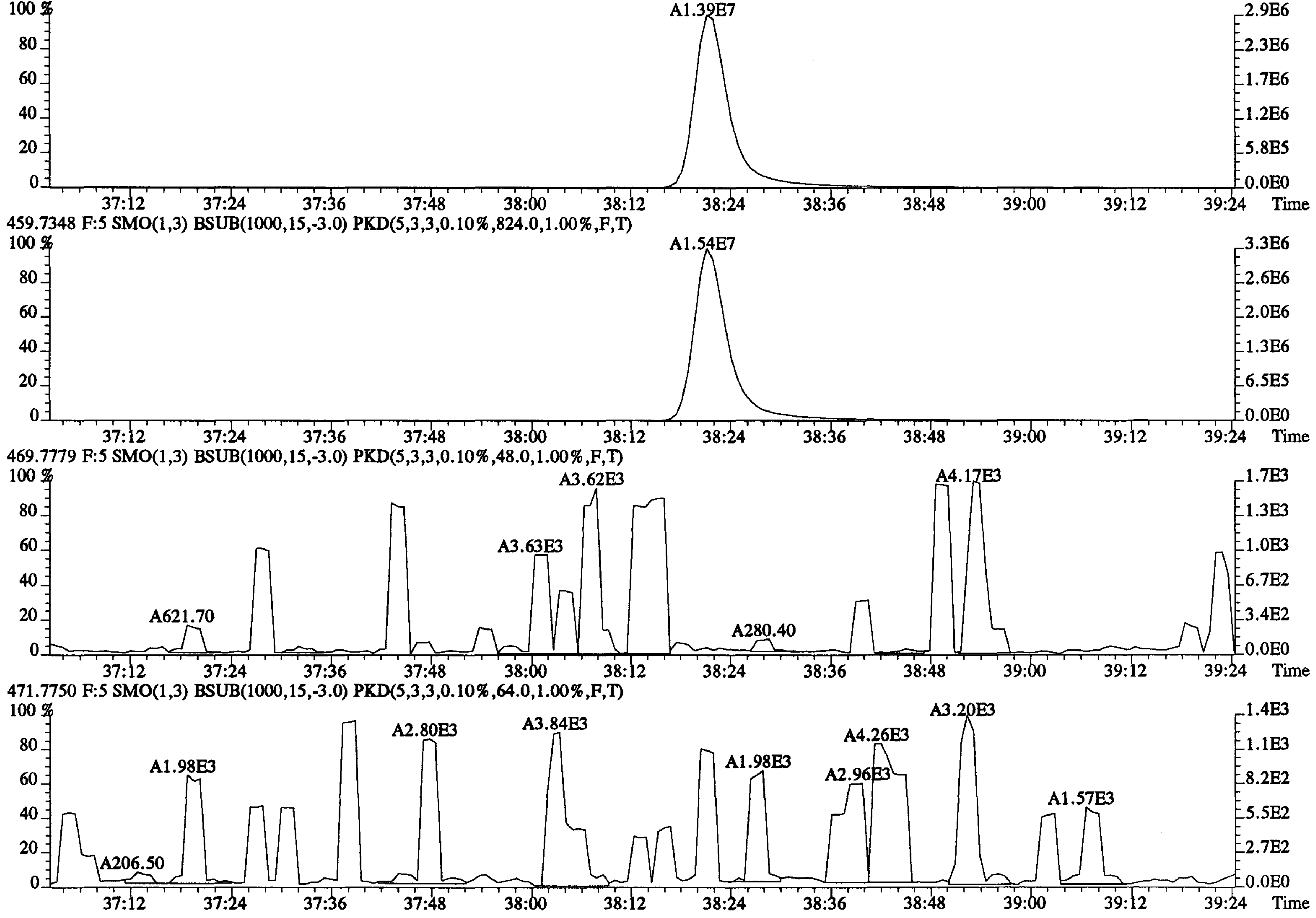
441.7428 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,792.0,1.00%,F,T)

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

513.6775 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,2700.0,1.00%,F,T)



File:18OC104D5 #1-192 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES



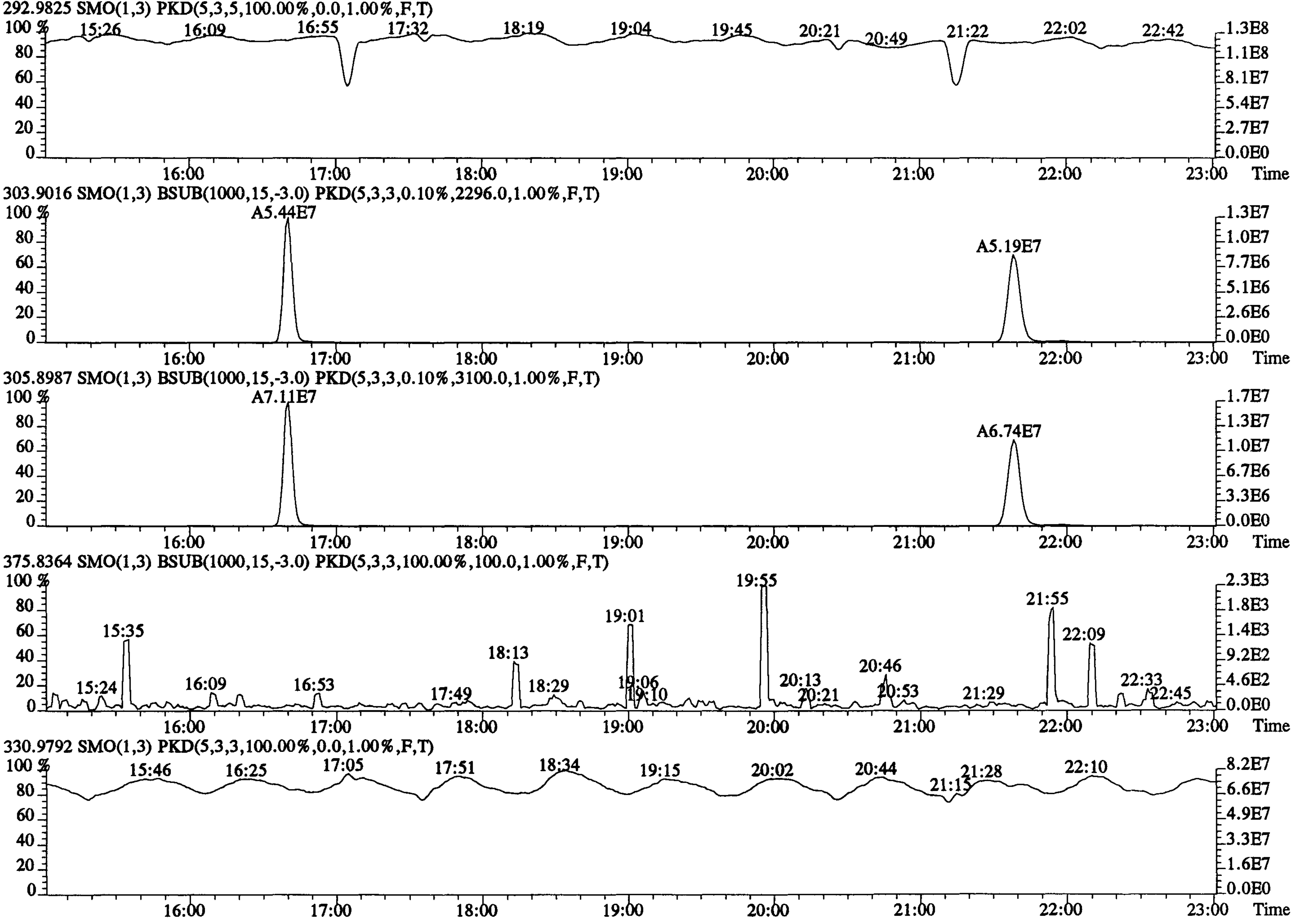
457.7377 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1904.0,1.00%,F,T)

459.7348 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,824.0,1.00%,F,T)

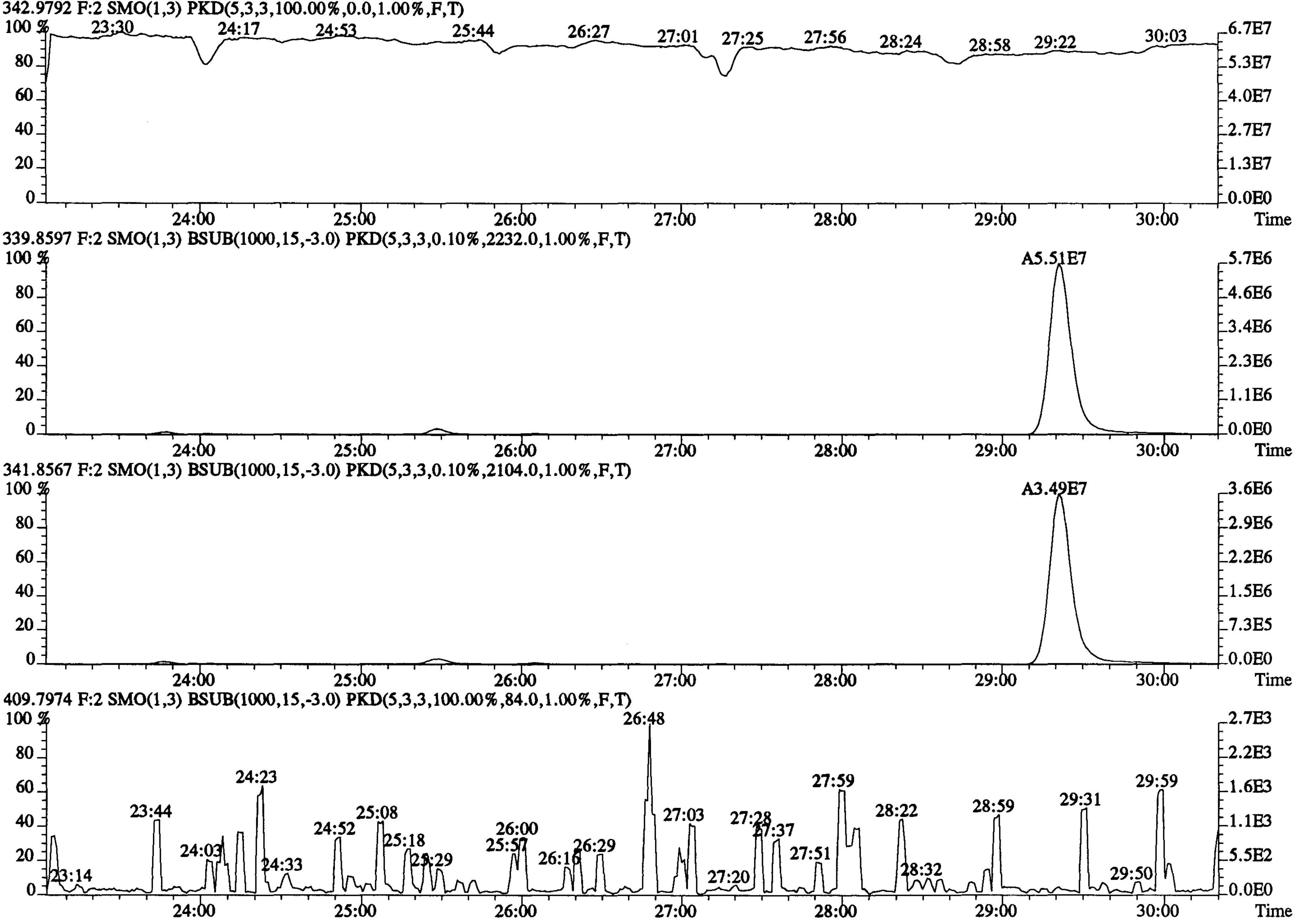
469.7779 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)

471.7750 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T)

File:18OC104D5 #1-530 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES



File:18OC104D5 #1-469 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES



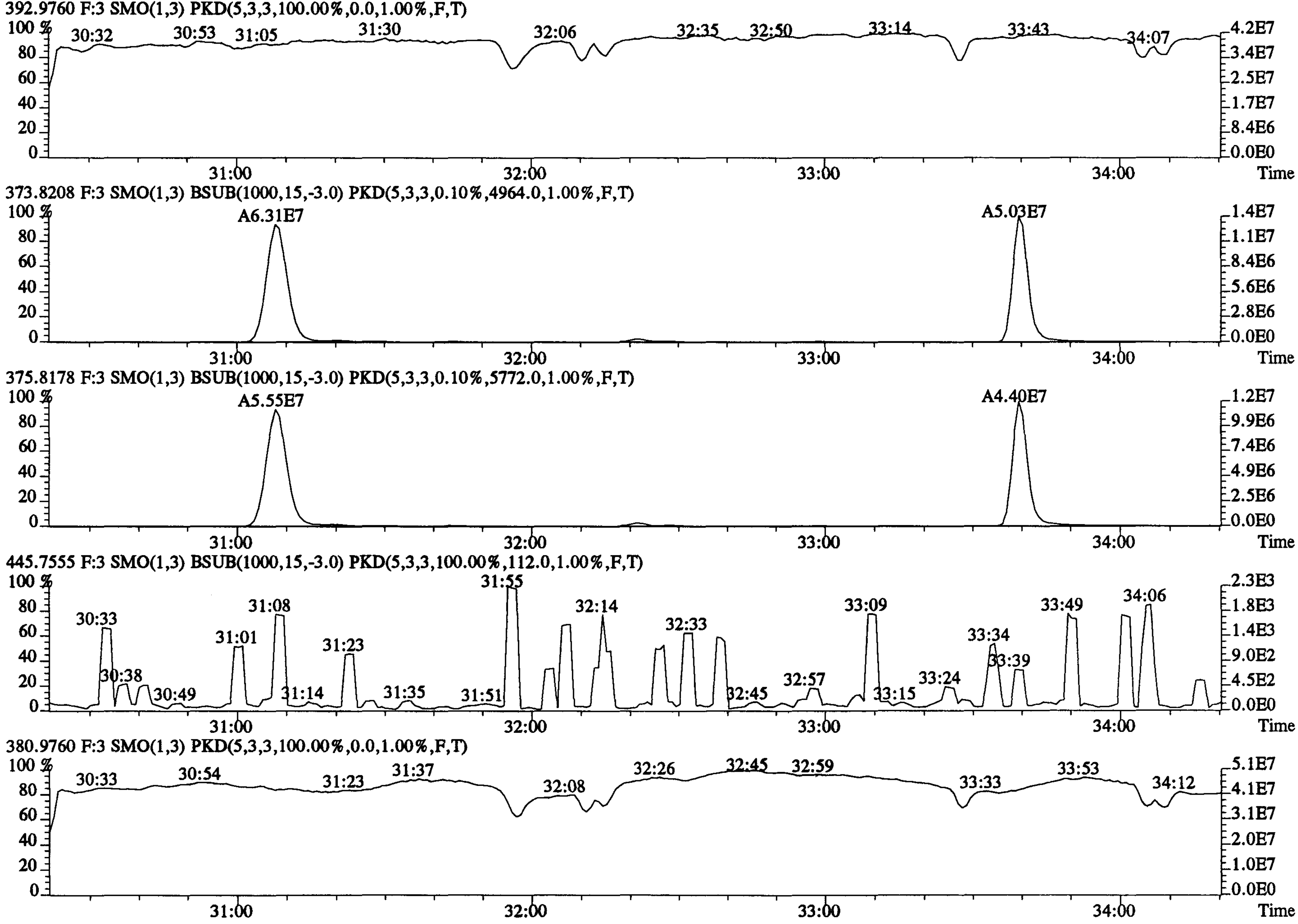
342.9792 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2232.0,1.00%,F,T)

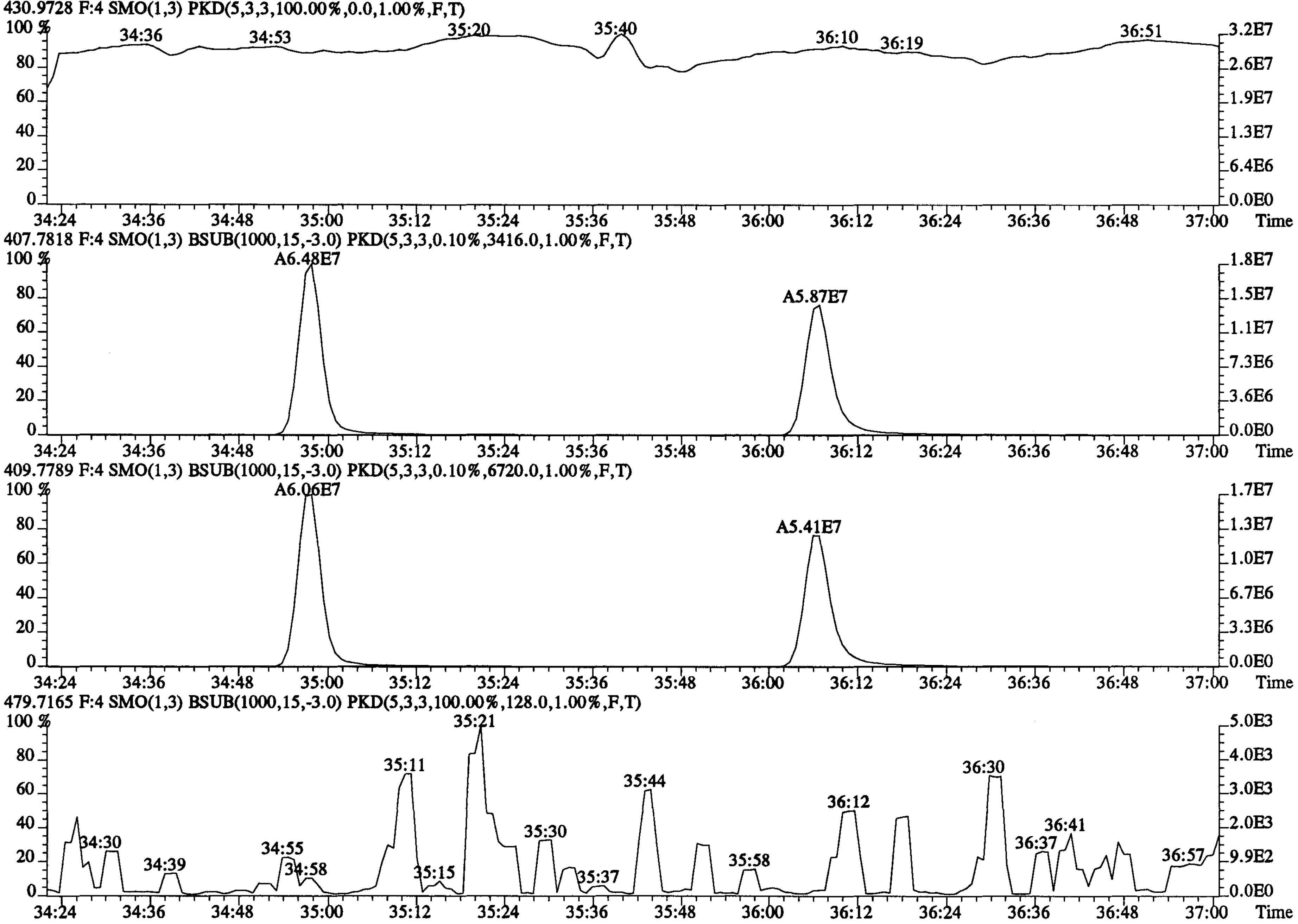
341.8567 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2104.0,1.00%,F,T)

409.7974 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,84.0,1.00%,F,T)

File:18OC104D5 #1-287 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES



File:18OC104D5 #1-201 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES



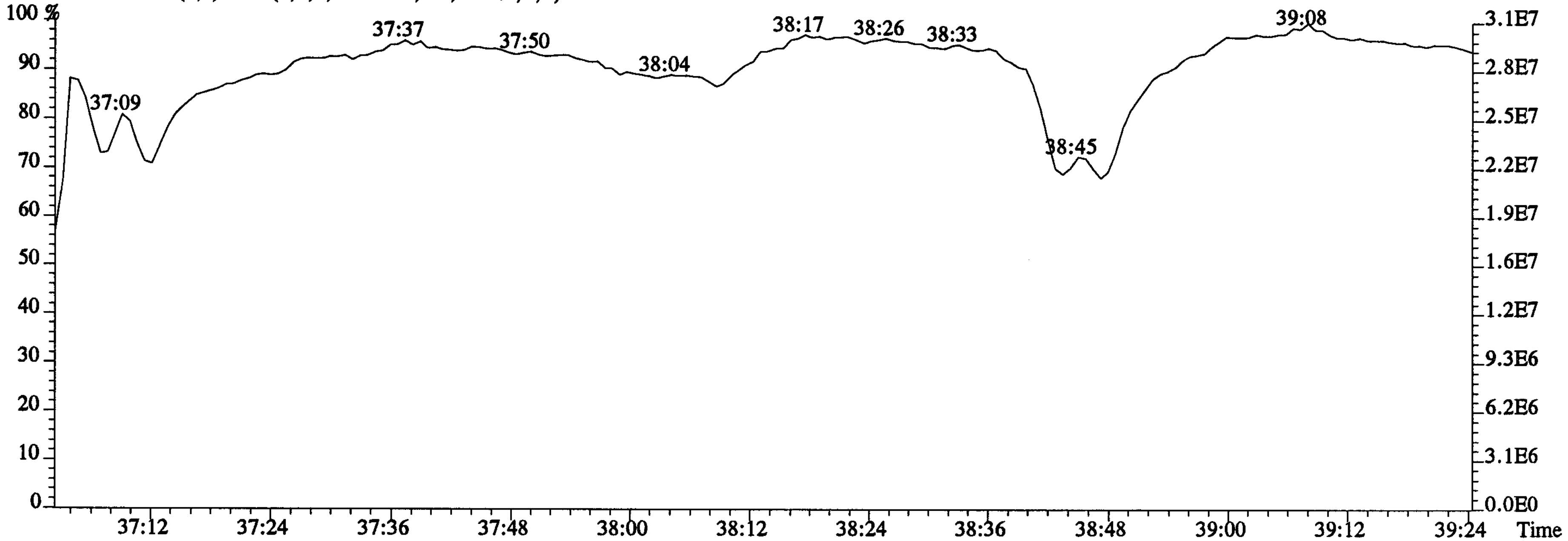
430.9728 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

407.7818 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3416.0,1.00%,F,T)

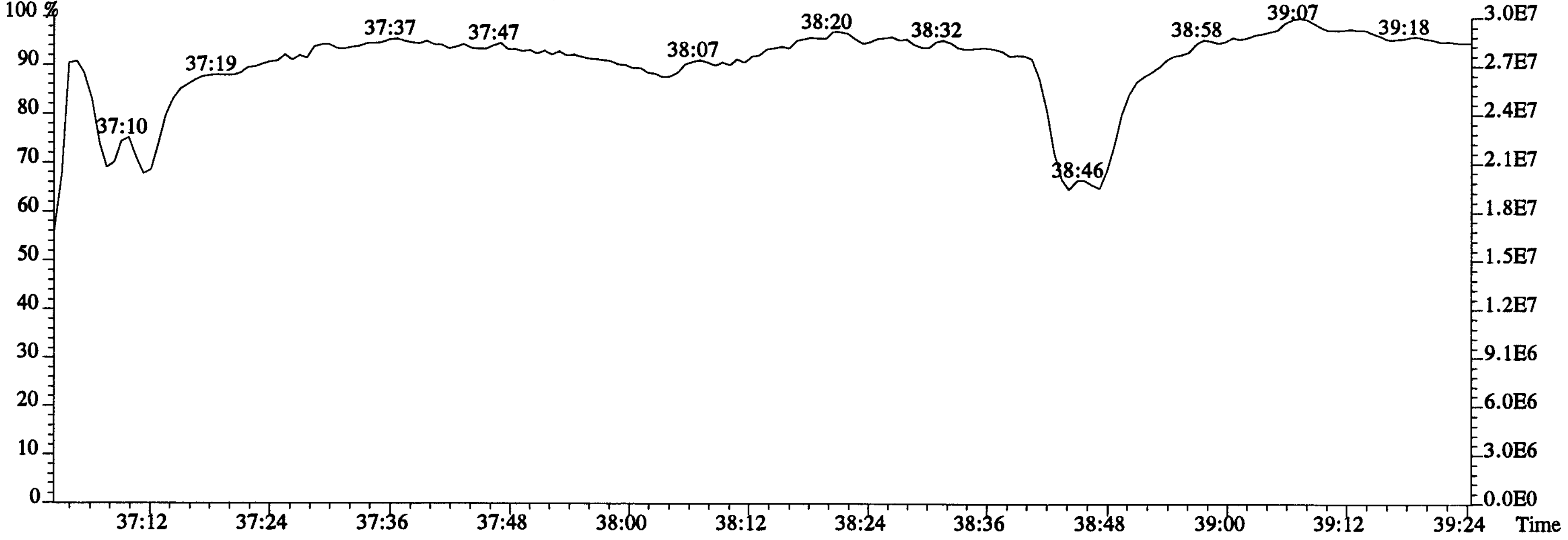
409.7789 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6720.0,1.00%,F,T)

479.7165 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,128.0,1.00%,F,T)

File:18OC104D5 #1-192 Acq:18-OCT-2010 09:06:59 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP1018 :DB-5 CPSM 3732-09 Exp:DIOXINRES
454.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

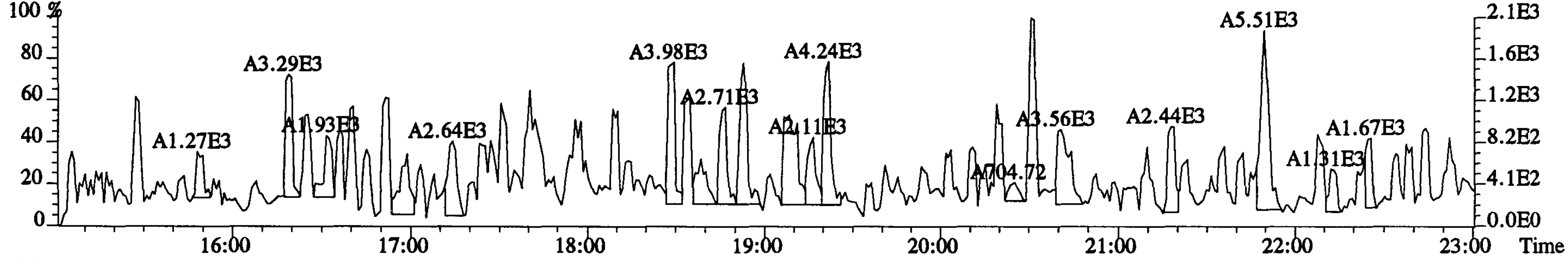


442.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

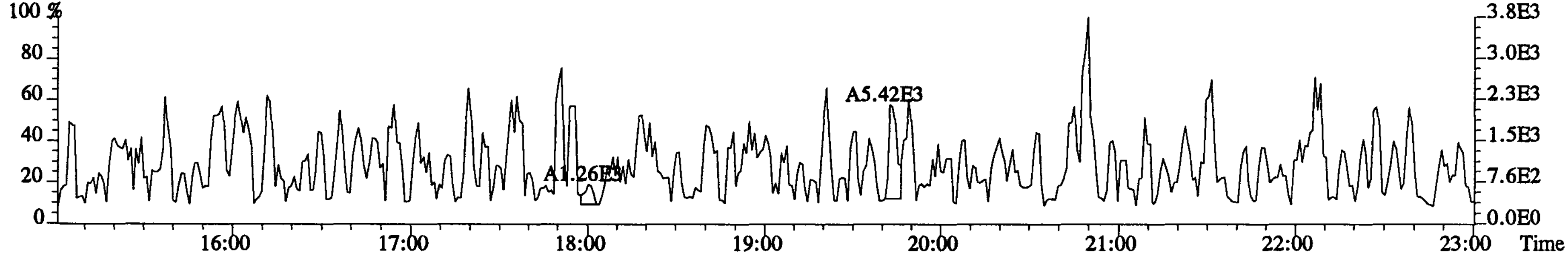


File:18OC104D5 #1-530 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES

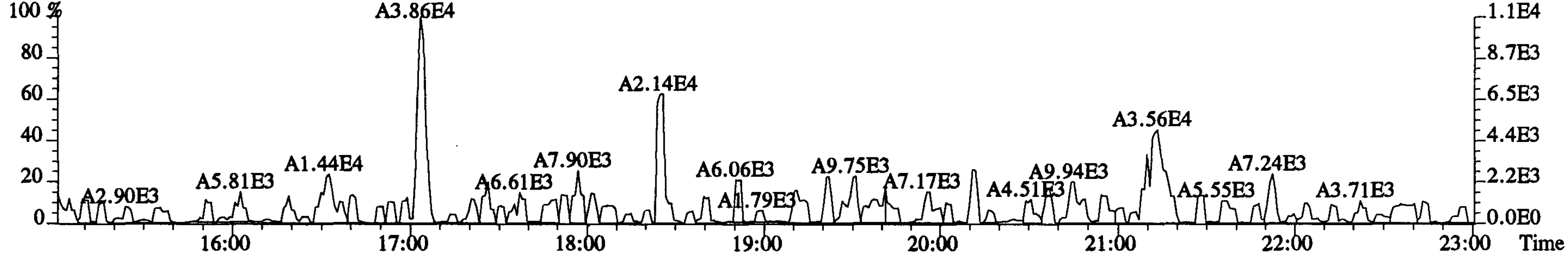
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,452.0,1.00%,F,T)



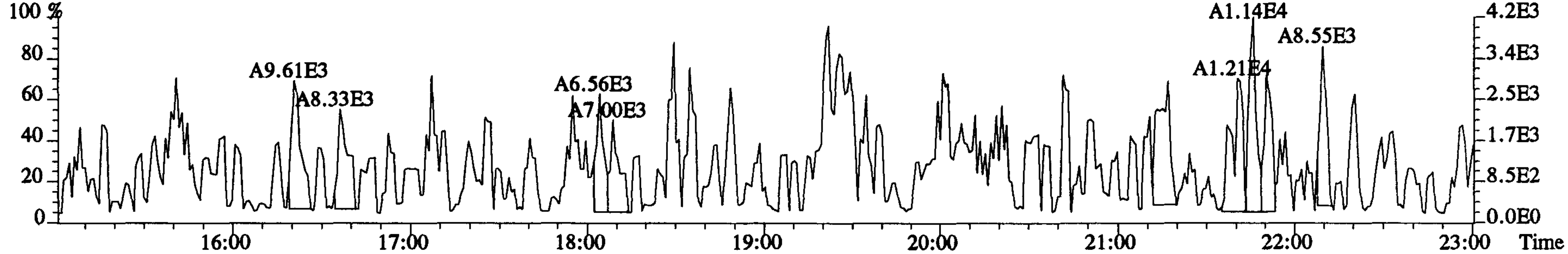
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1448.0,1.00%,F,T)



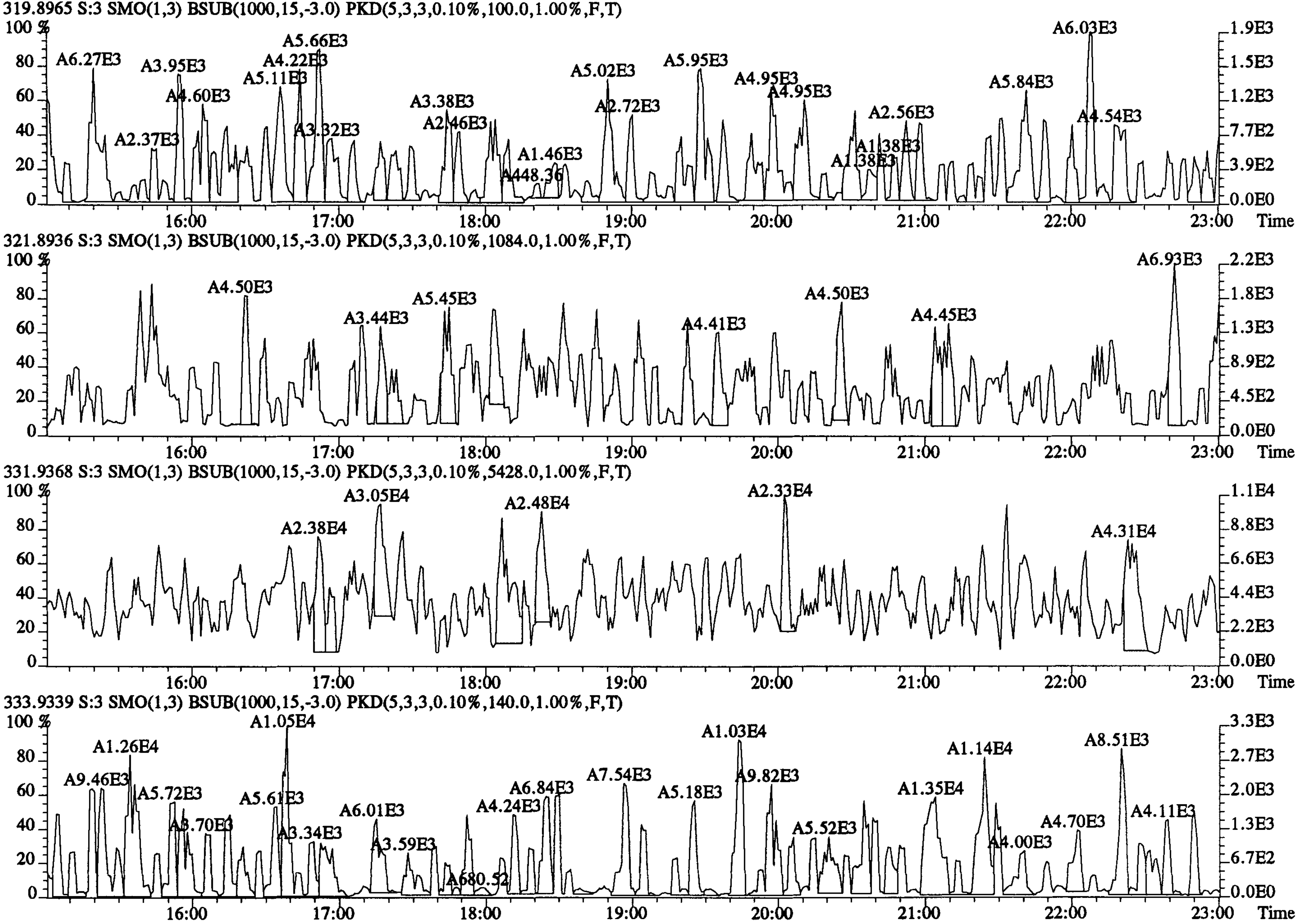
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,128.0,1.00%,F,T)



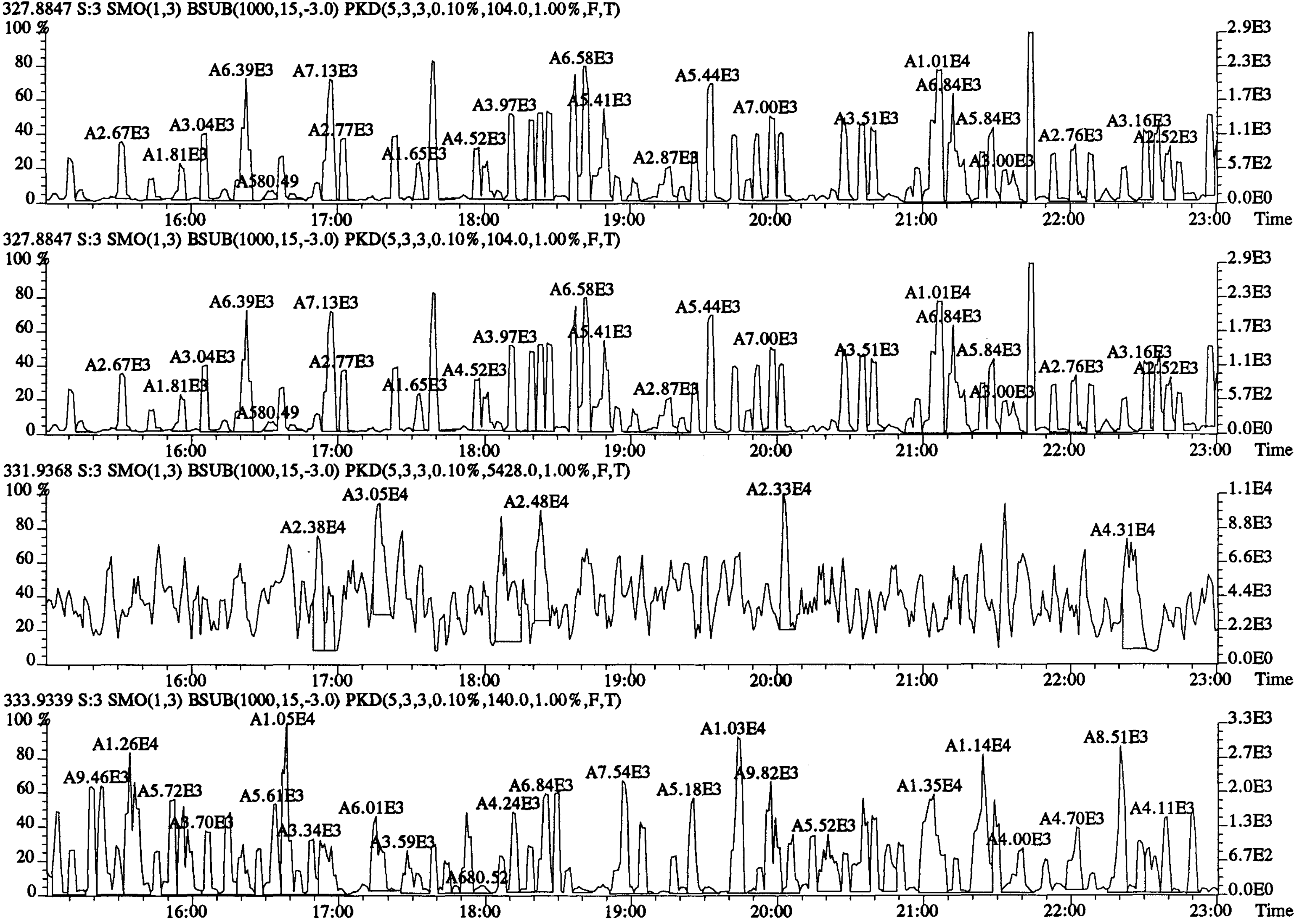
317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1576.0,1.00%,F,T)



File:18OC104D5 #1-530 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES

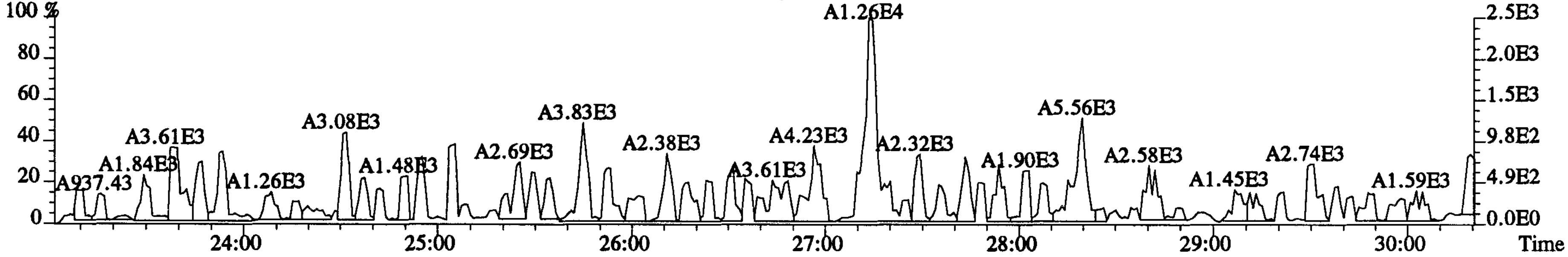


File:18OC104D5 #1-530 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES

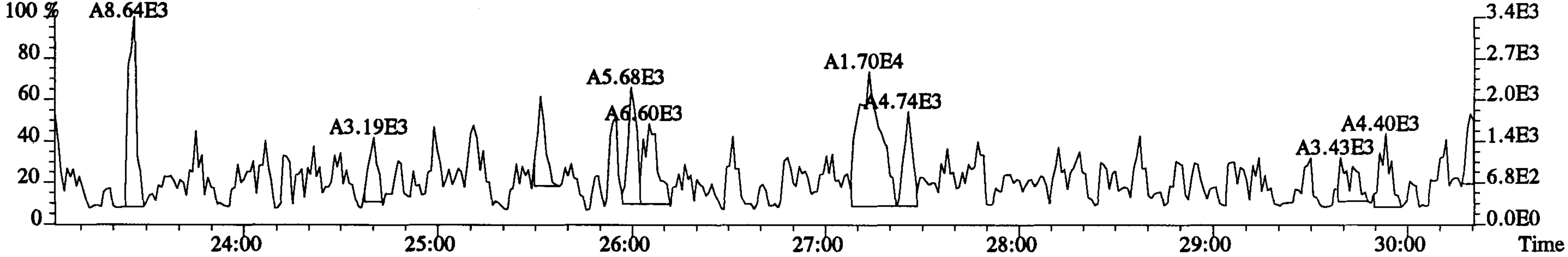


File:18OC104D5 #1-470 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES

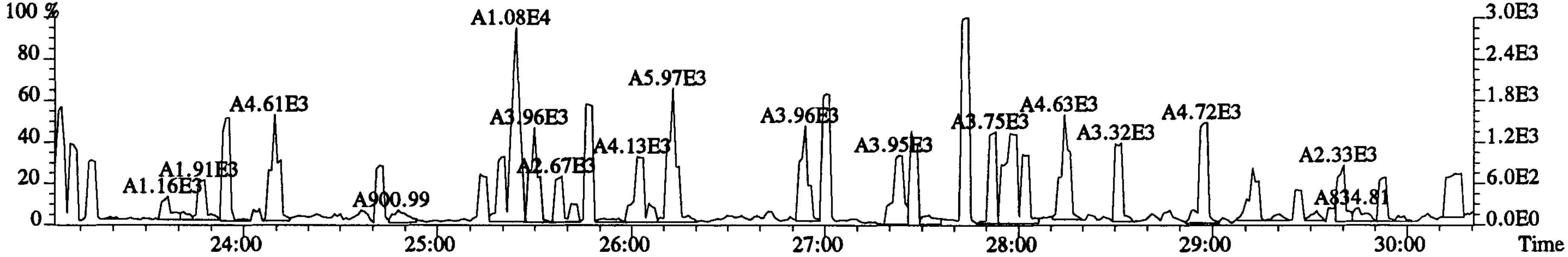
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,100.0,1.00%,F,T)



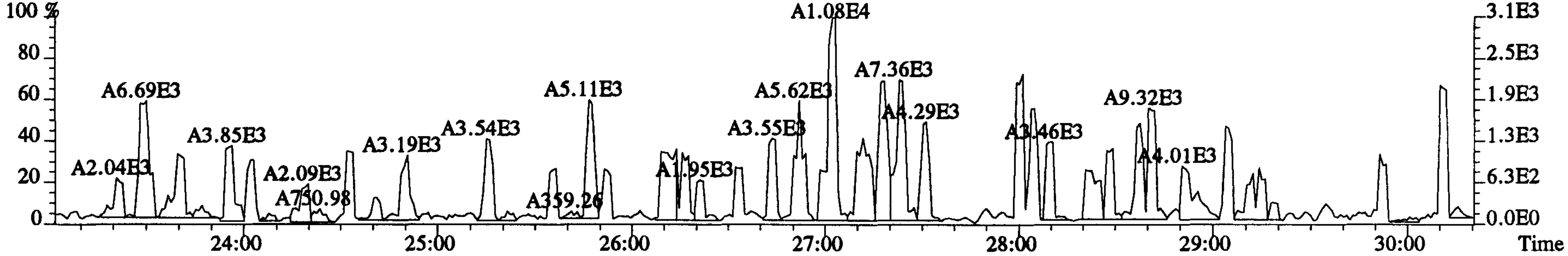
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,772.0,1.00%,F,T)



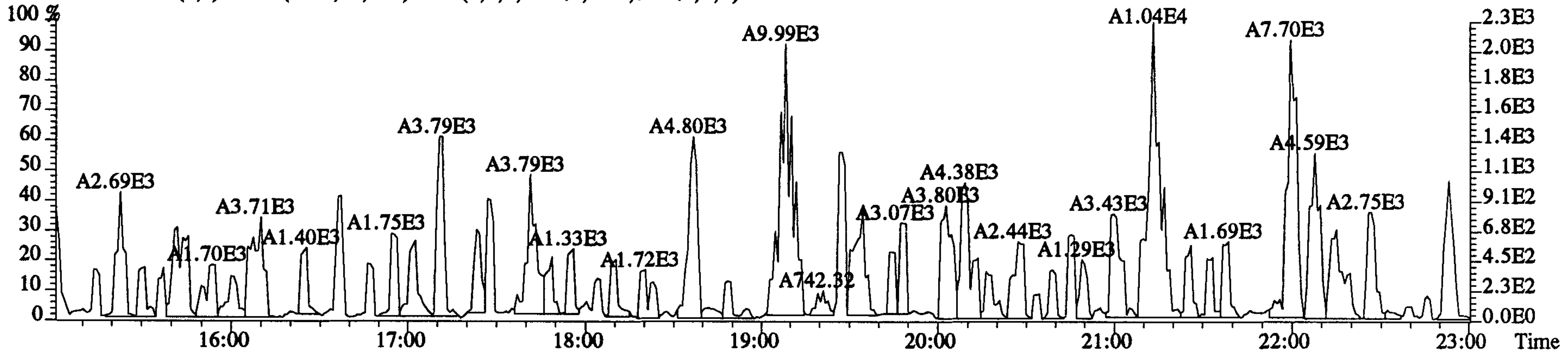
351.9000 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,120.0,1.00%,F,T)



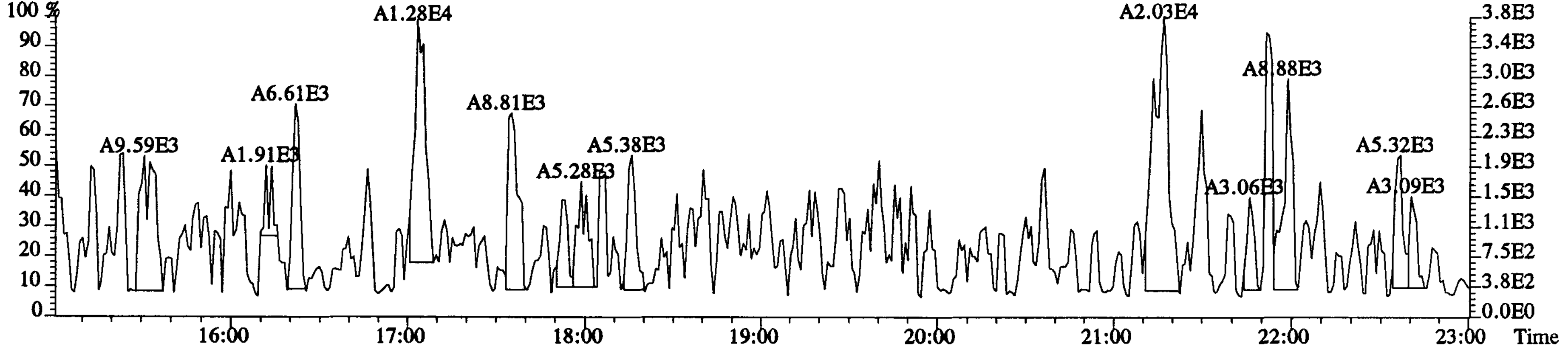
353.8970 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,156.0,1.00%,F,T)



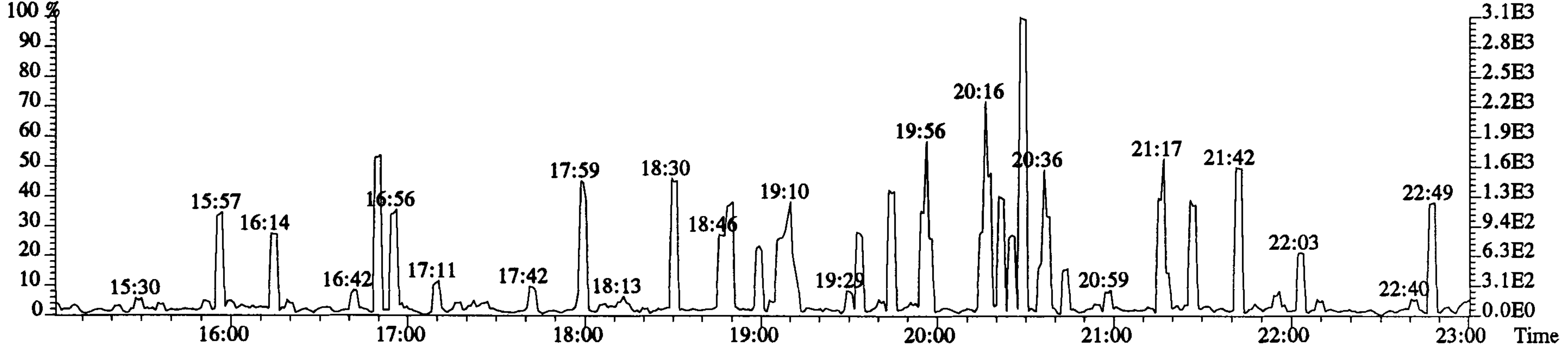
File:18OC104D5 #1-530 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES
339.8597 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,72.0,1.00%,F,T)



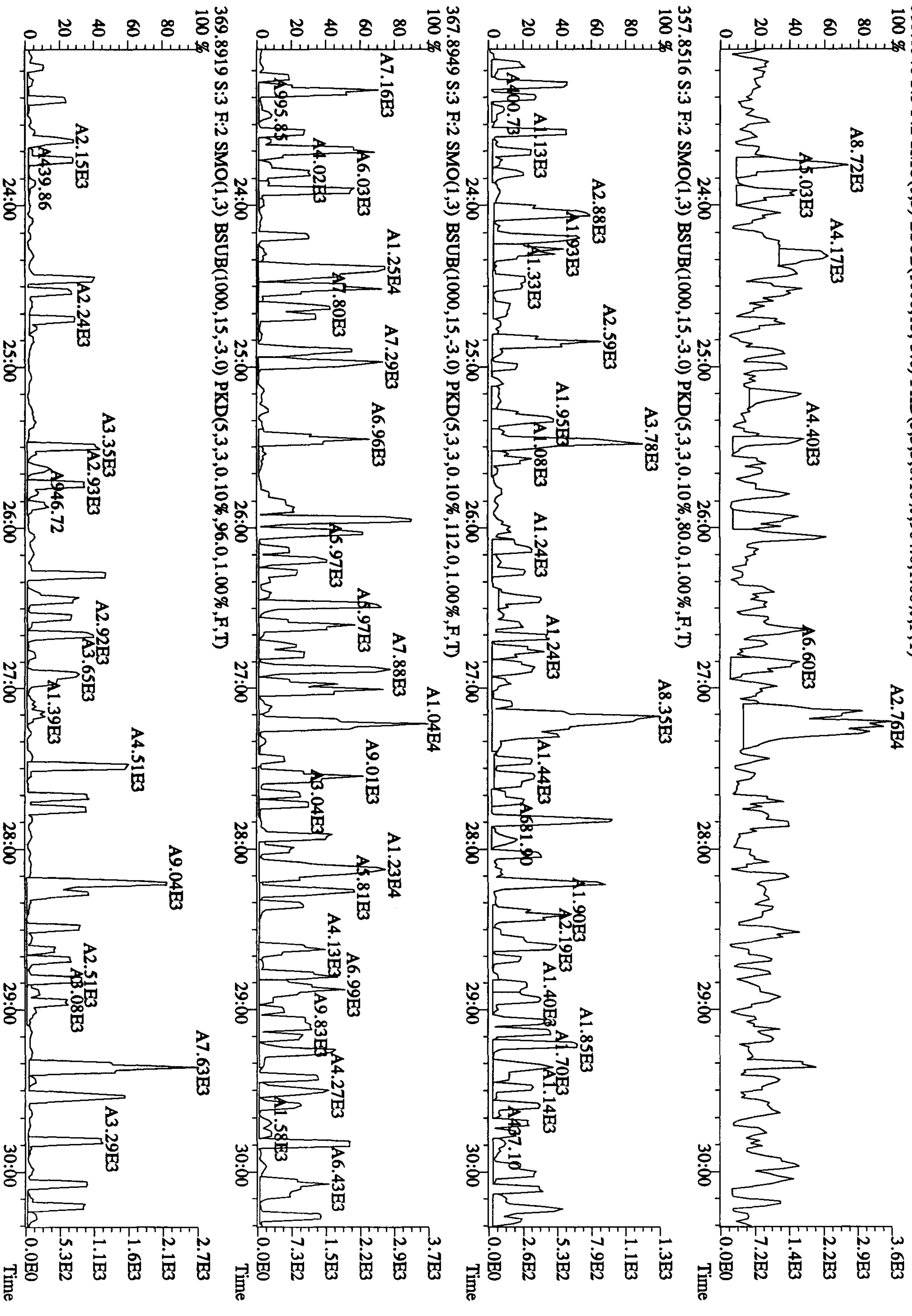
341.8567 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1068.0,1.00%,F,T)



409.7974 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,80.0,1.00%,F,T)

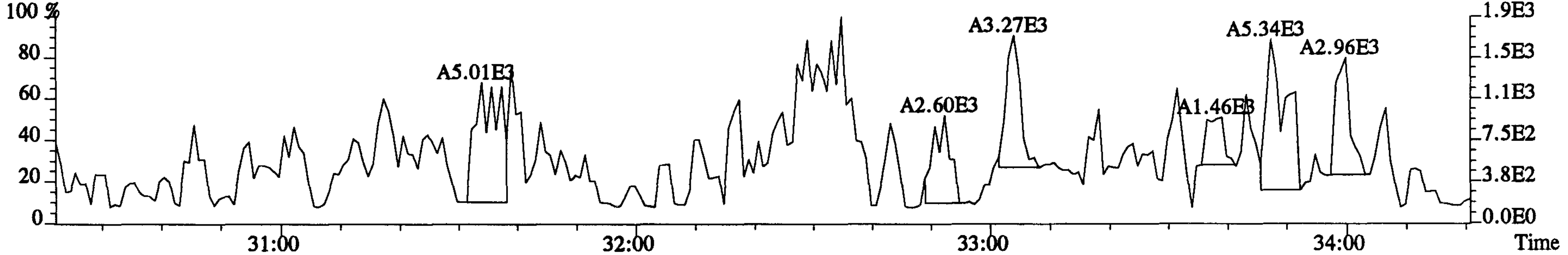


File:18OC104D5 #1-470 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES
355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,904.0,1.00%,F,T)

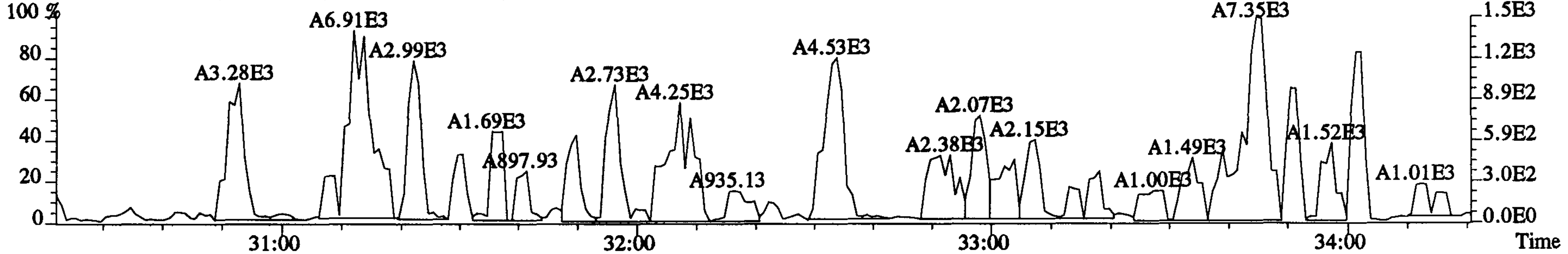


File:18OC104D5 #1-287 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES

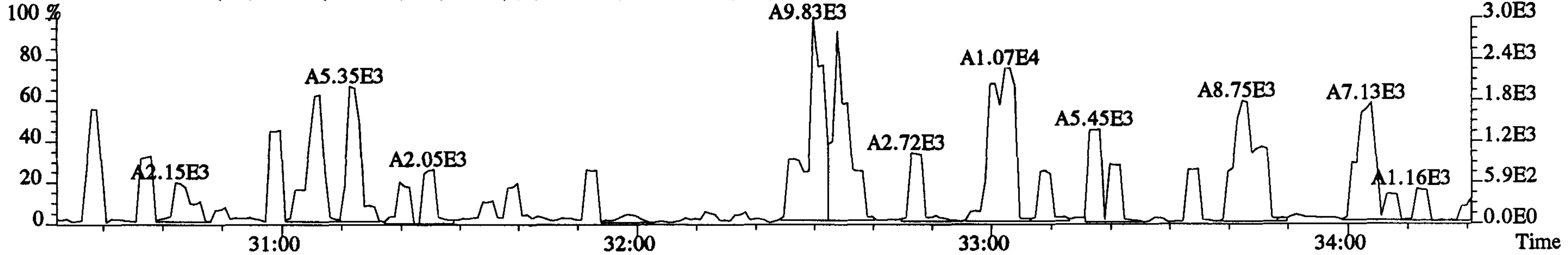
373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,652.0,1.00%,F,T)



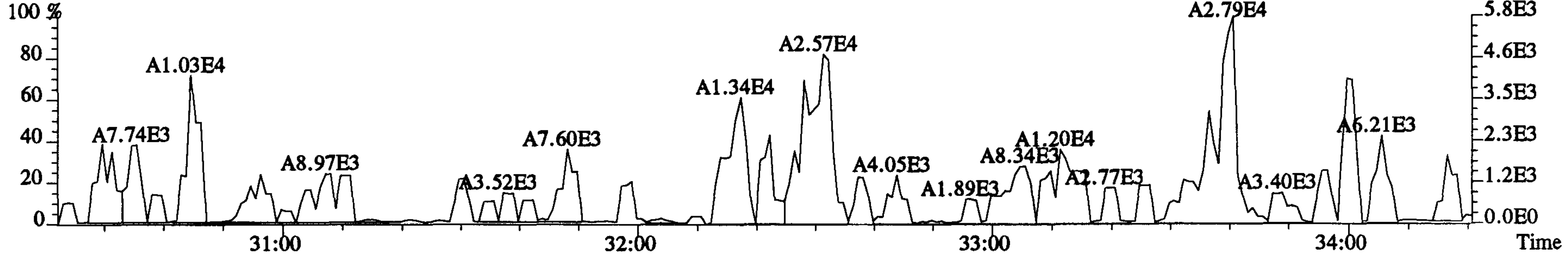
375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,60.0,1.00%,F,T)



383.8639 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,92.0,1.00%,F,T)

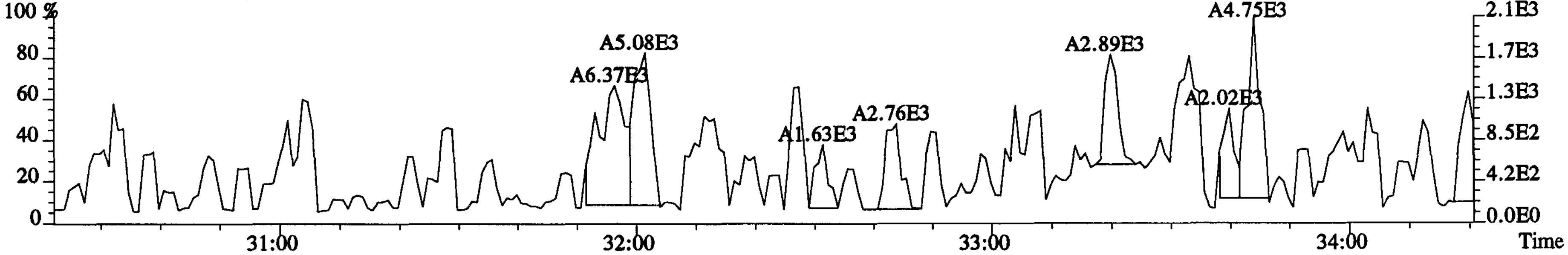


385.8610 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,100.0,1.00%,F,T)

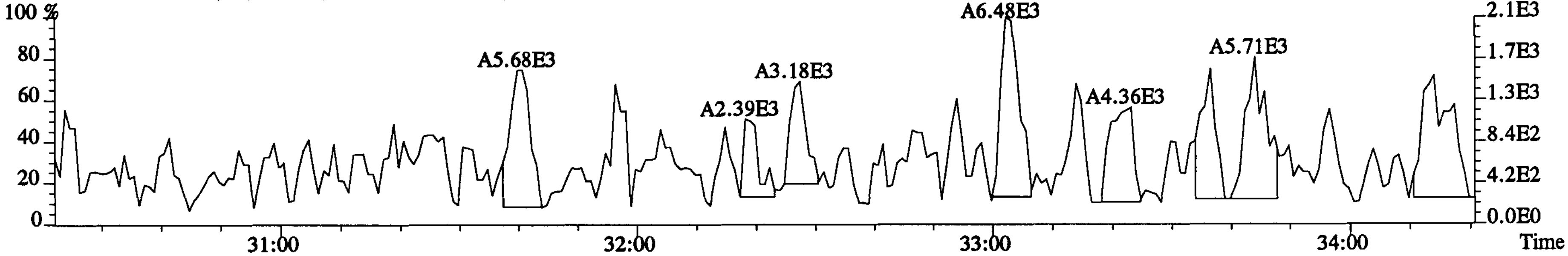


File:18OC104D5 #1-287 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES

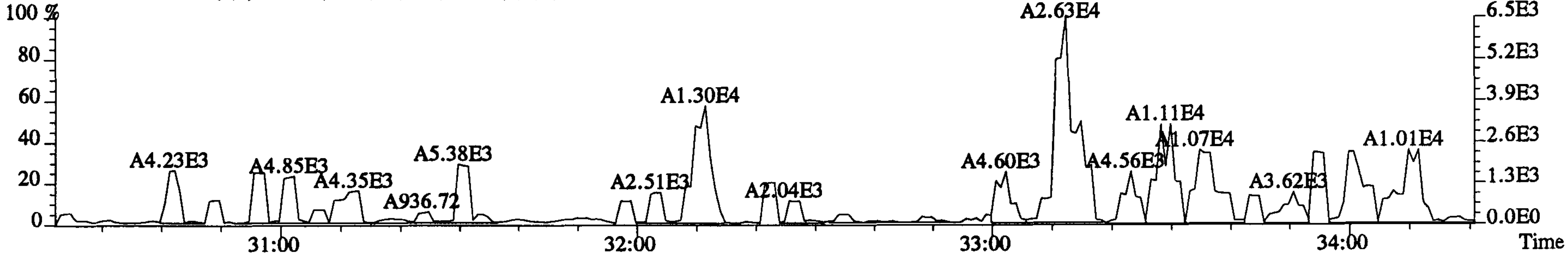
389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,712.0,1.00%,F,T)



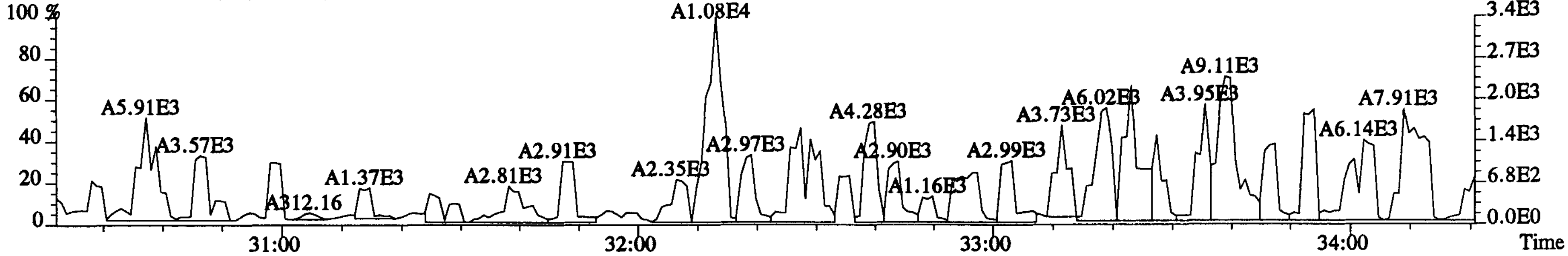
391.8127 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,644.0,1.00%,F,T)



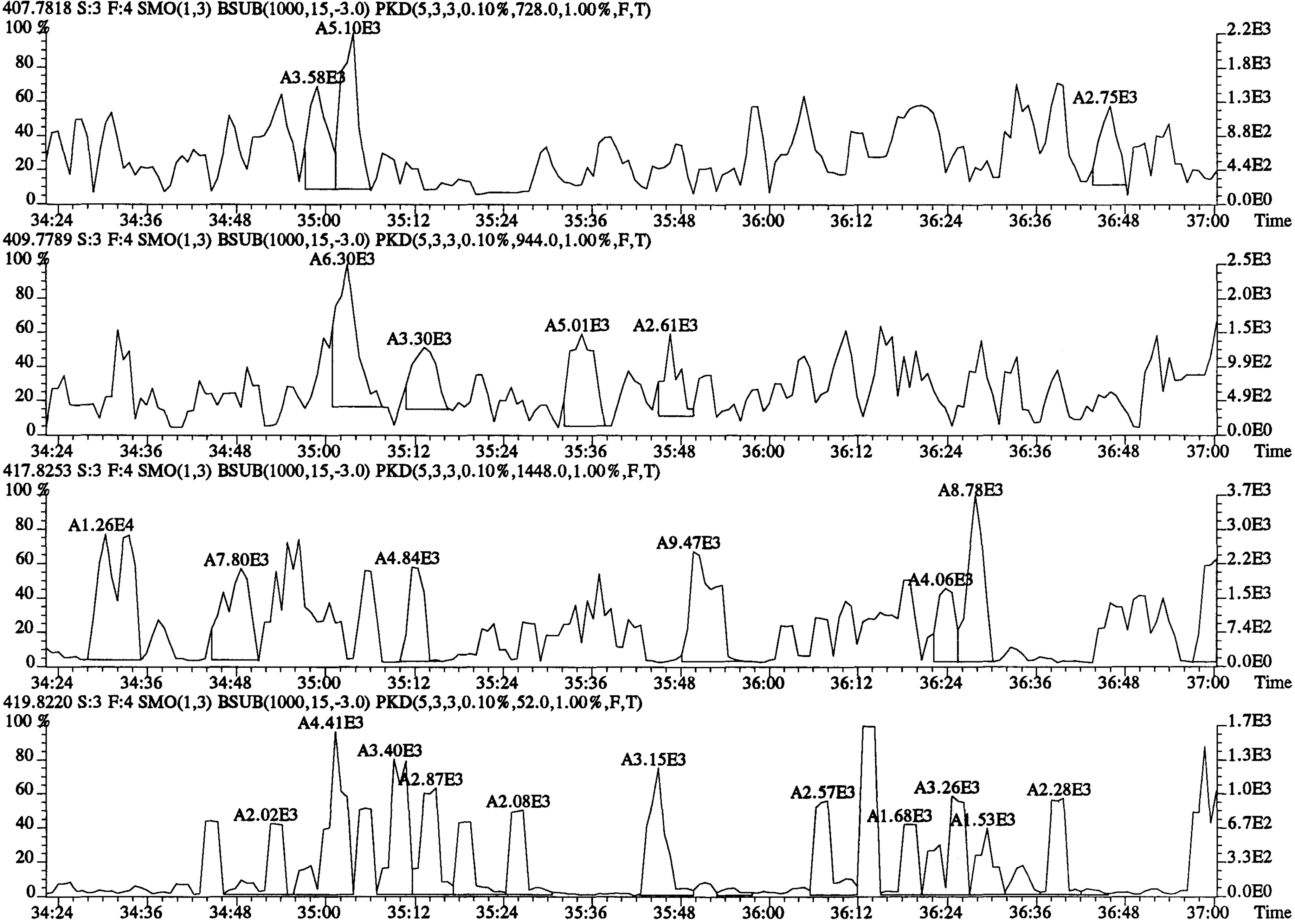
401.8559 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,160.0,1.00%,F,T)



403.8529 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,188.0,1.00%,F,T)

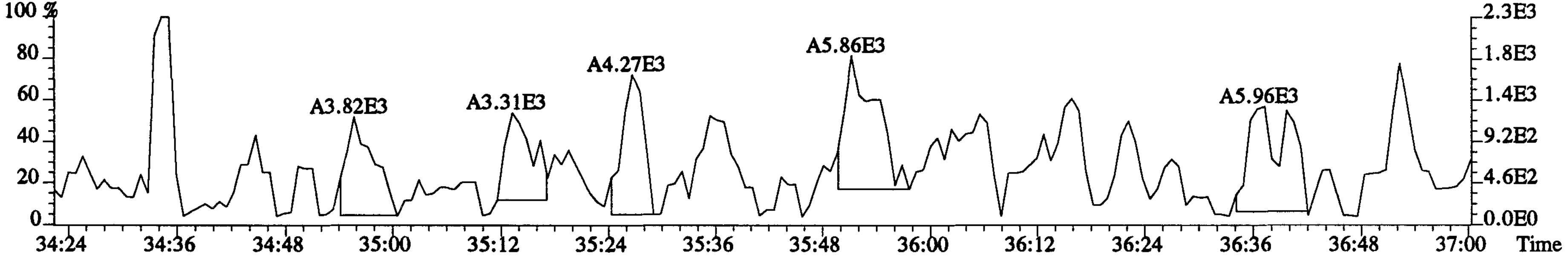


File:18OC104D5 #1-200 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES

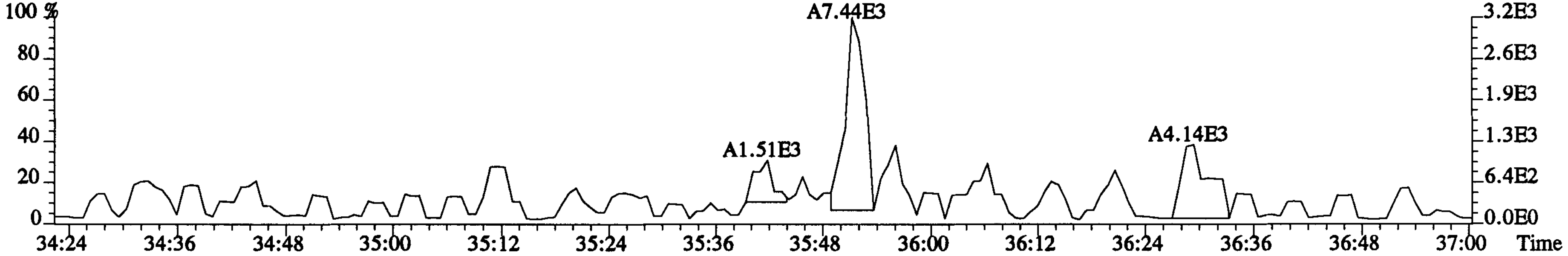


File:18OC104D5 #1-200 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES

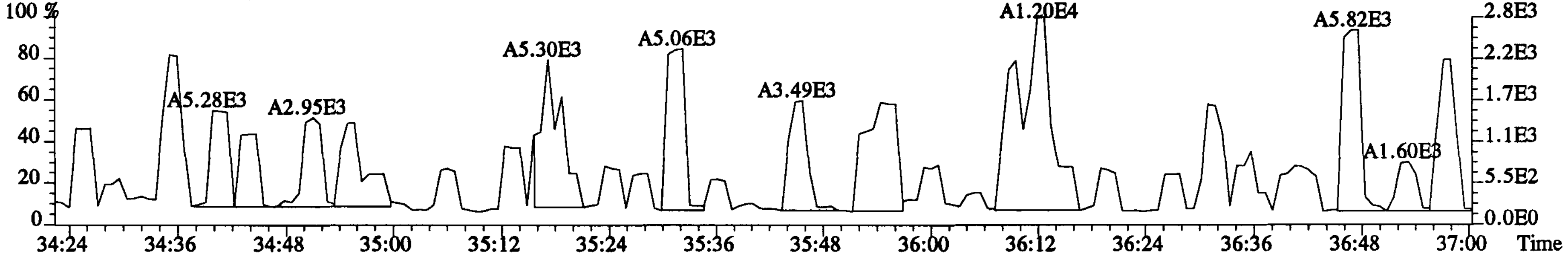
423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,776.0,1.00%,F,T)



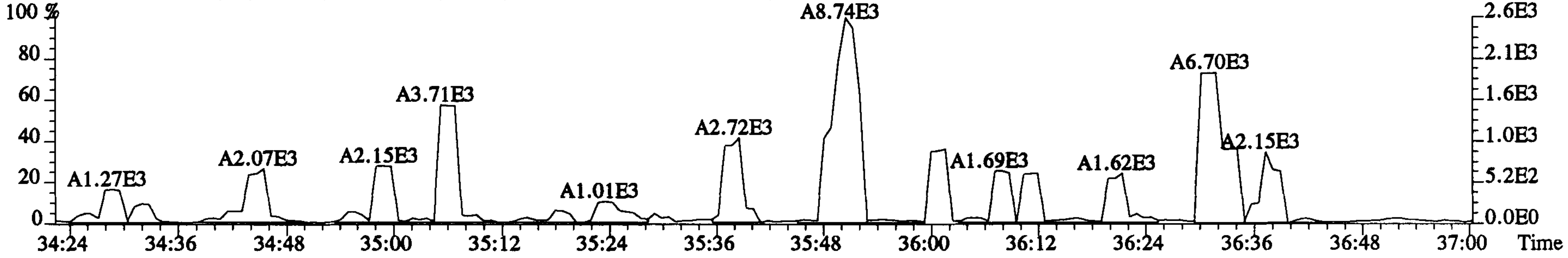
425.7737 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,592.0,1.00%,F,T)



435.8169 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,868.0,1.00%,F,T)

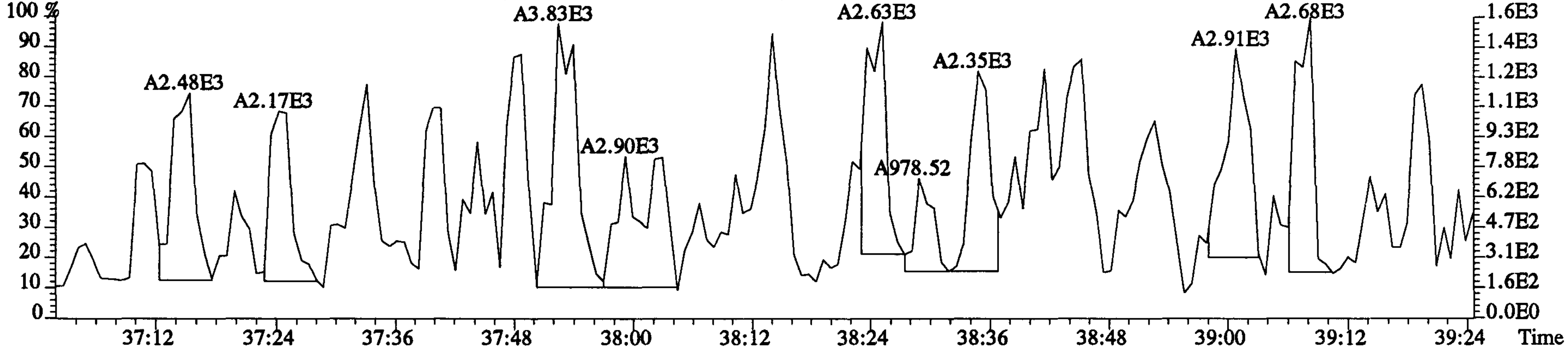


437.8140 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52.0,1.00%,F,T)

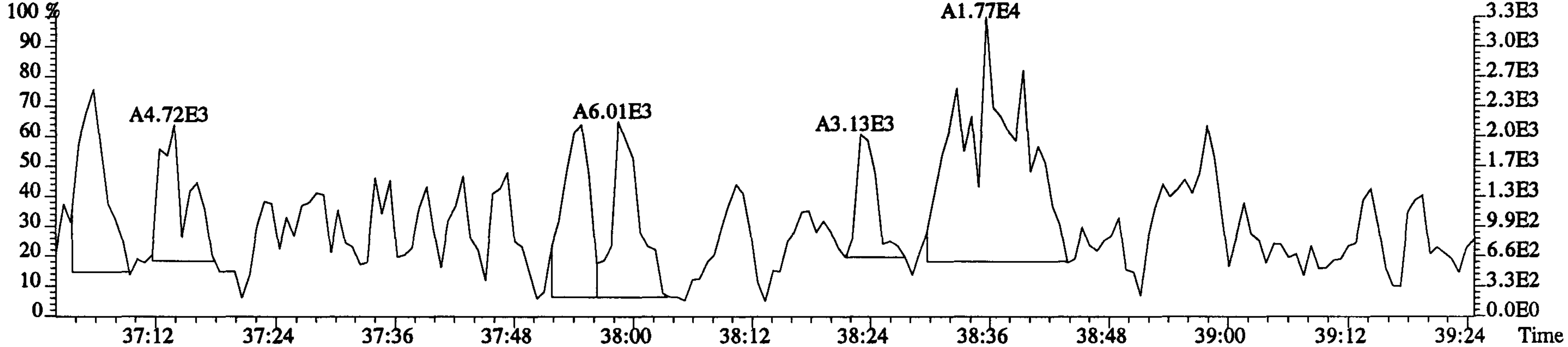


File:18OC104D5 #1-193 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES

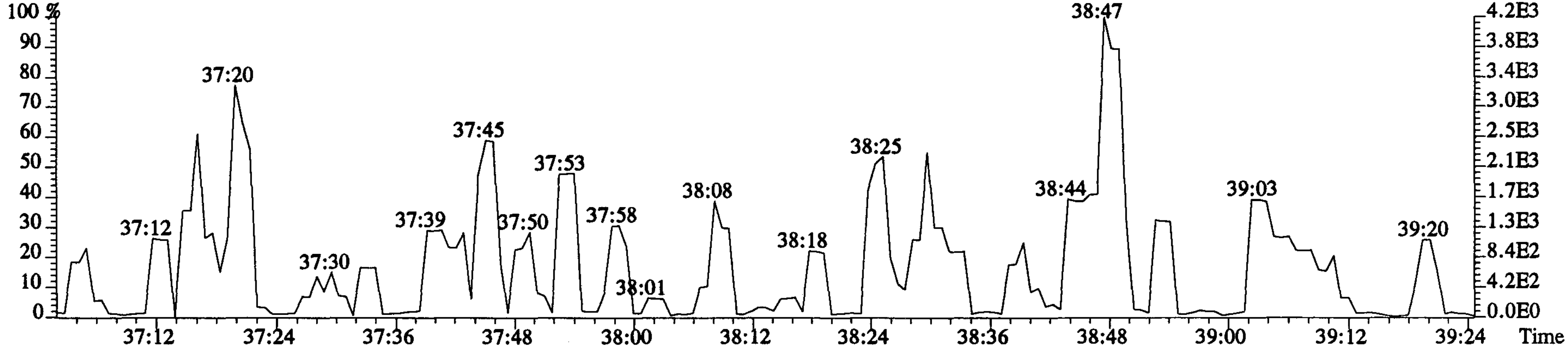
441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,576.0,1.00%,F,T)



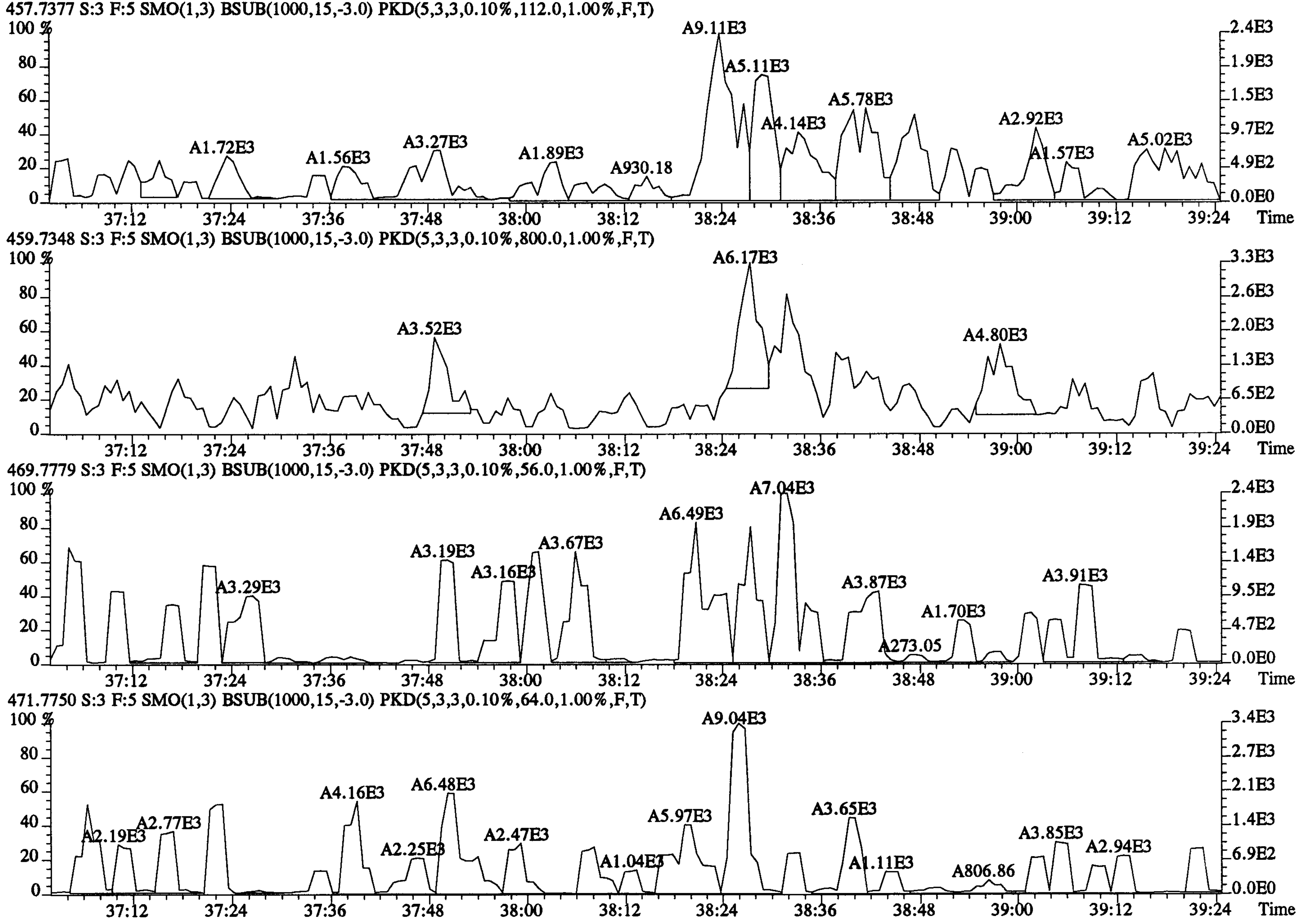
443.7399 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1080.0,1.00%,F,T)



513.6775 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,80.0,1.00%,F,T)



File:18OC104D5 #1-193 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES



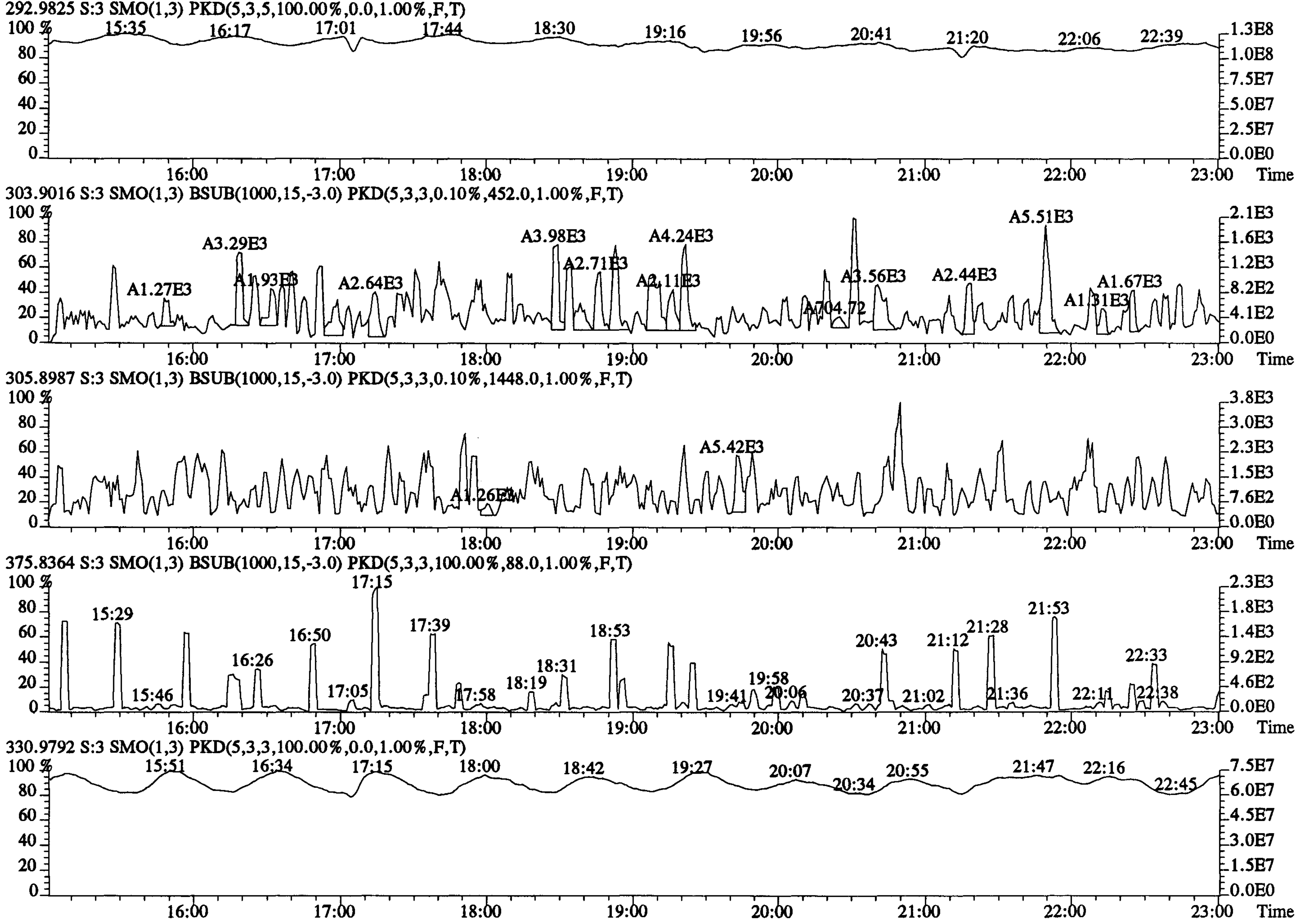
457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,112.0,1.00%,F,T)

459.7348 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,800.0,1.00%,F,T)

469.7779 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56.0,1.00%,F,T)

471.7750 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T)

File:18OC104D5 #1-530 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES



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%,452.0,1.00%,F,T)

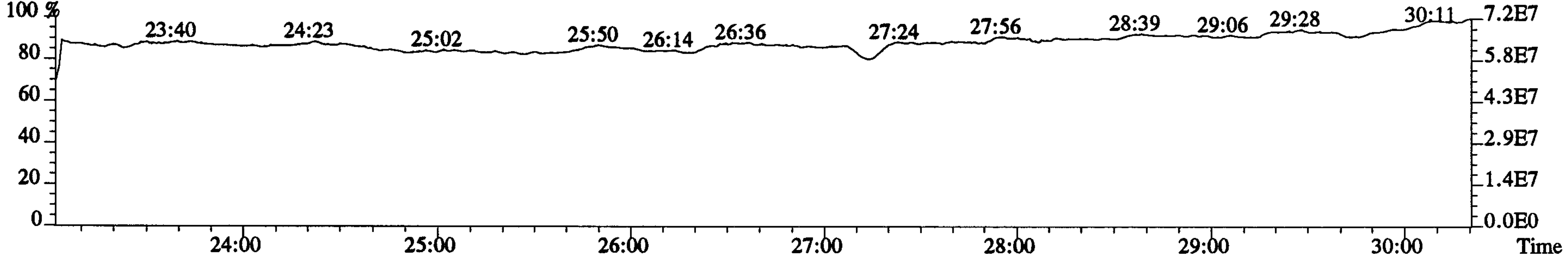
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1448.0,1.00%,F,T)

375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,88.0,1.00%,F,T)

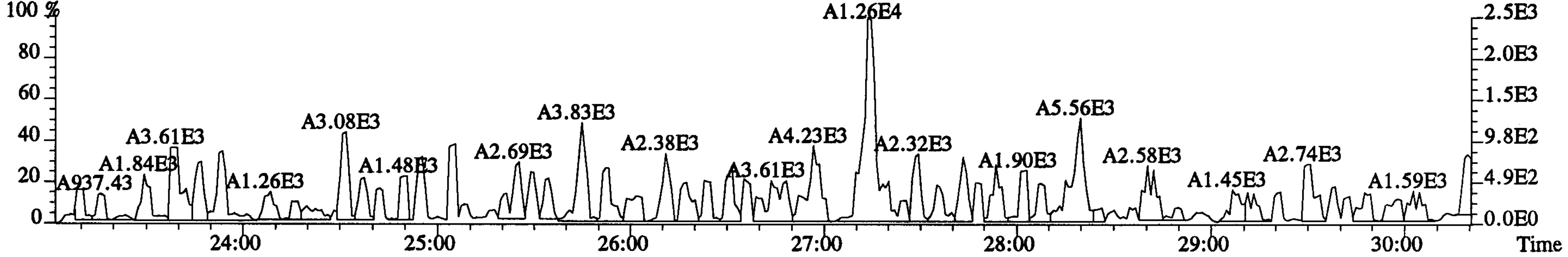
330.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

File:18OC104D5 #1-470 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES

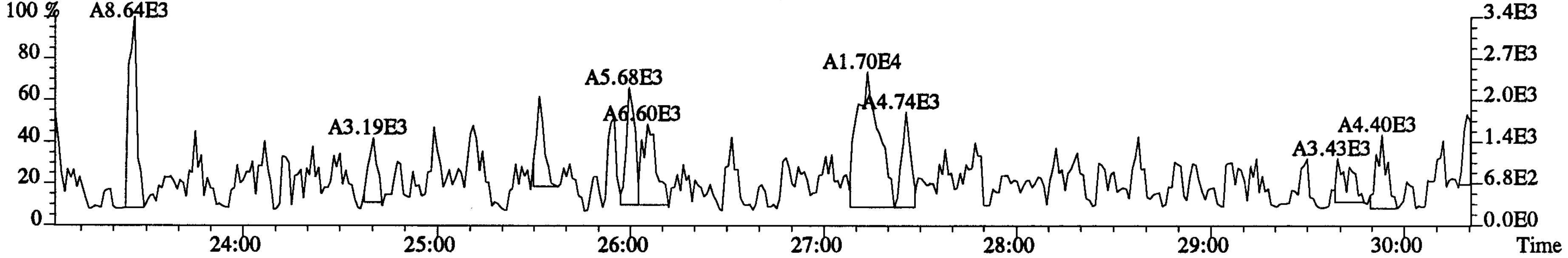
342.9792 S:3 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



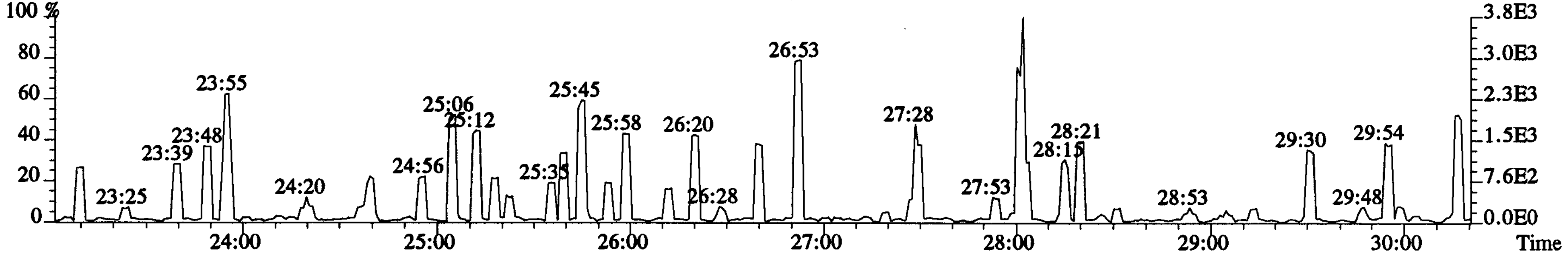
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,100.0,1.00%,F,T)



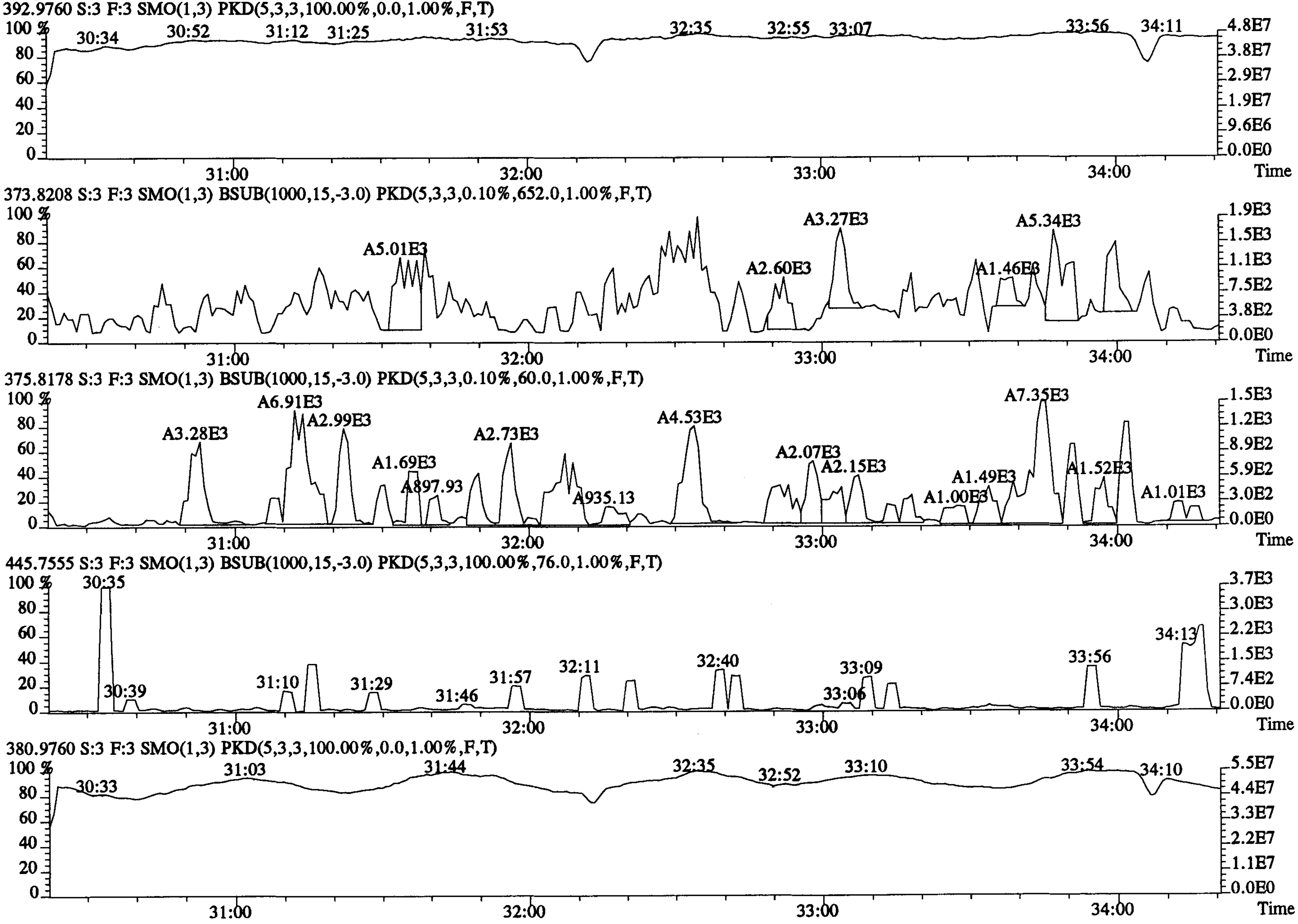
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,772.0,1.00%,F,T)



409.7974 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,68.0,1.00%,F,T)



File:18OC104D5 #1-287 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES



392.9760 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,652.0,1.00%,F,T)

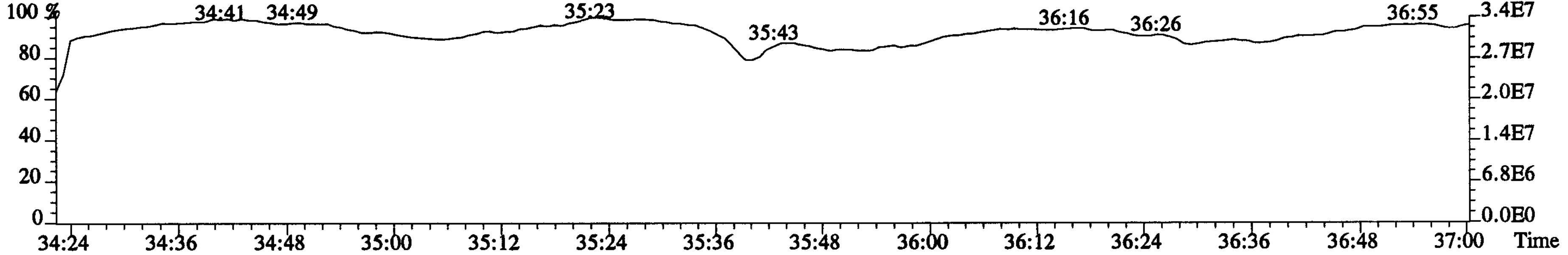
375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,60.0,1.00%,F,T)

445.7555 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,76.0,1.00%,F,T)

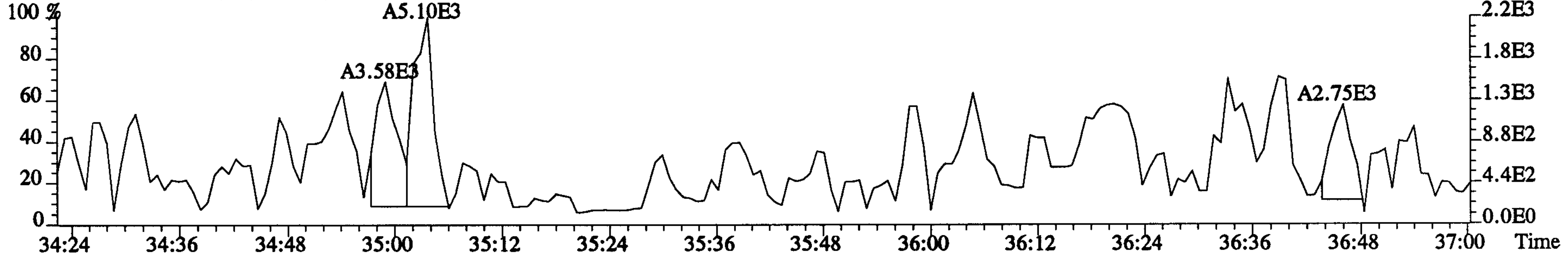
380.9760 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

File:18OC104D5 #1-200 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES

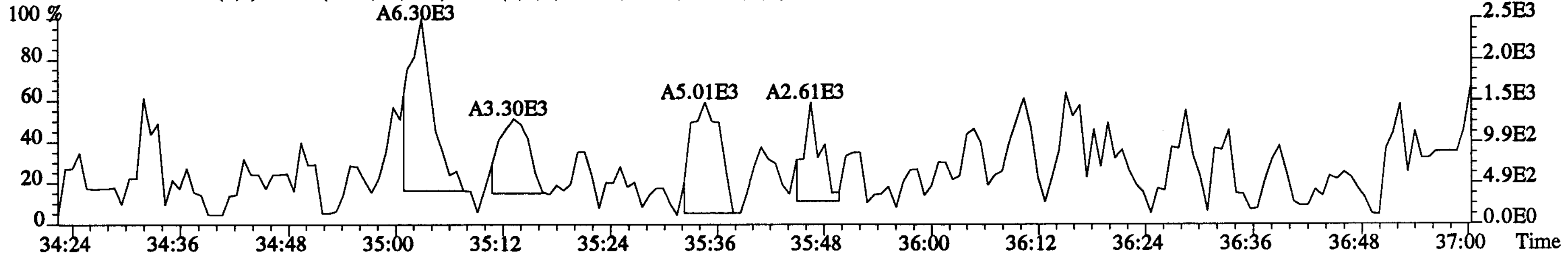
430.9728 S:3 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



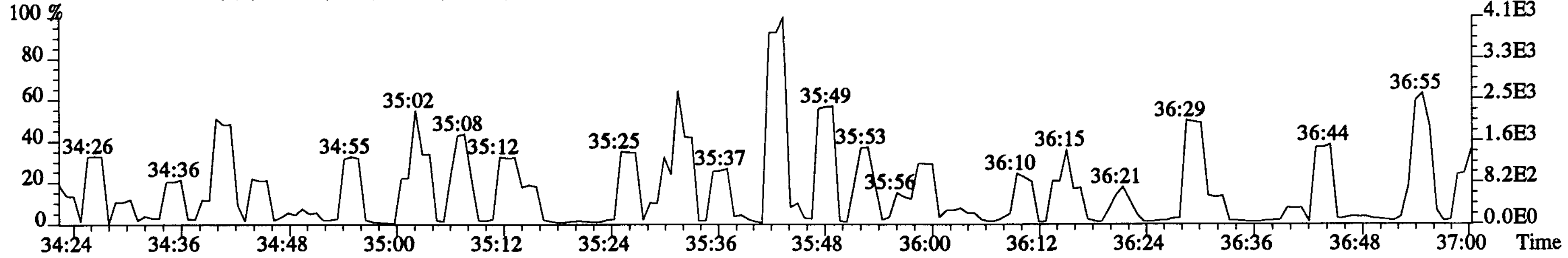
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,728.0,1.00%,F,T)



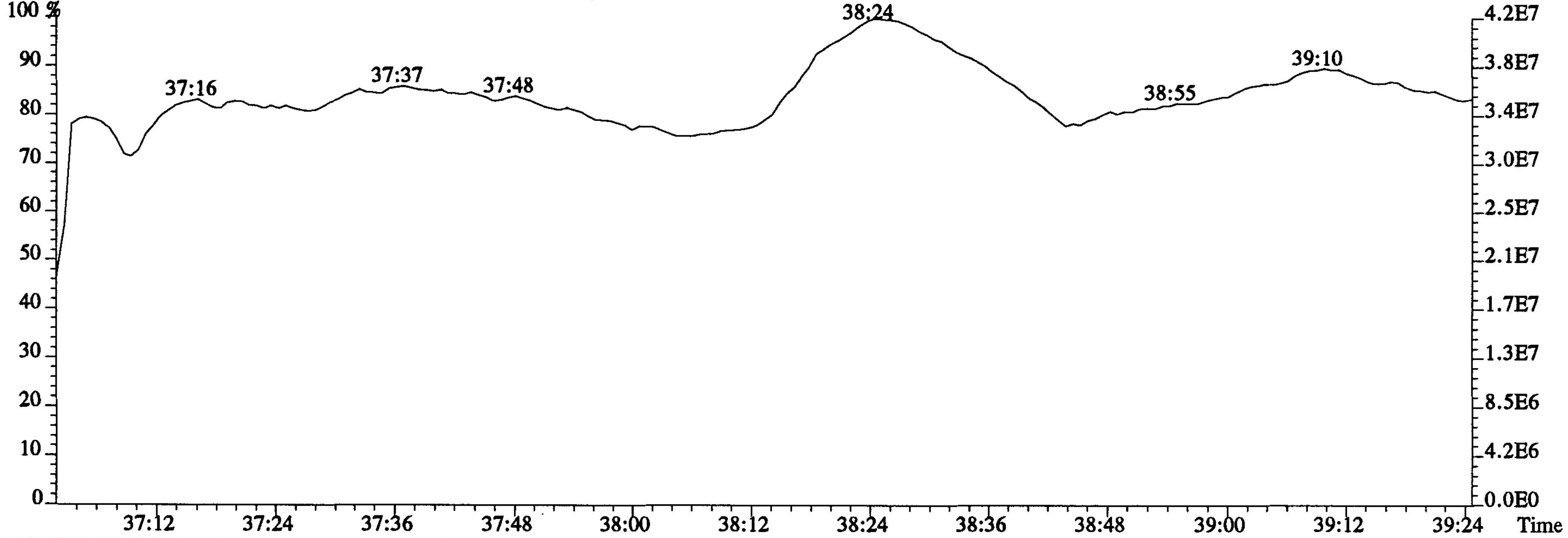
409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,944.0,1.00%,F,T)



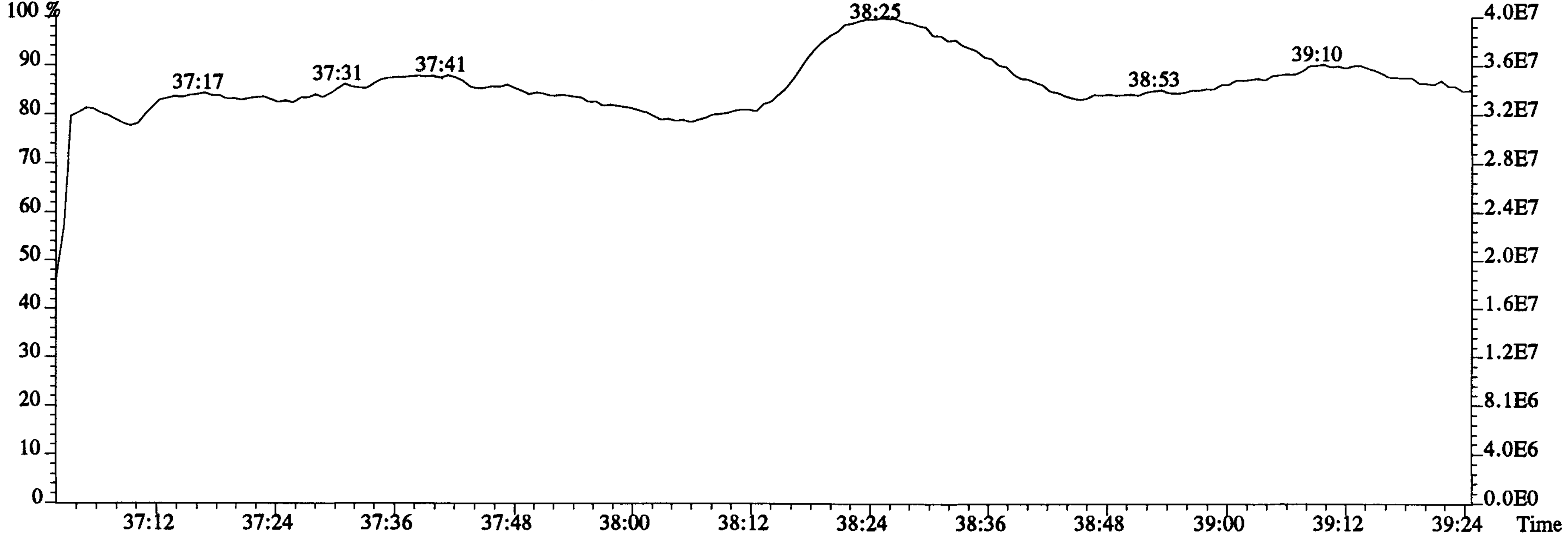
479.7165 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,84.0,1.00%,F,T)



File:18OC104D5 #1-193 Acq:18-OCT-2010 10:36:05 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DIOXINRES
454.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

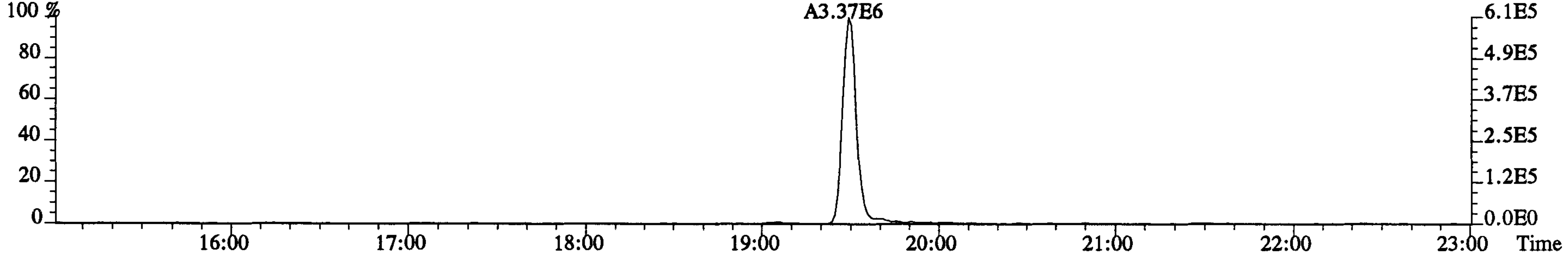


442.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

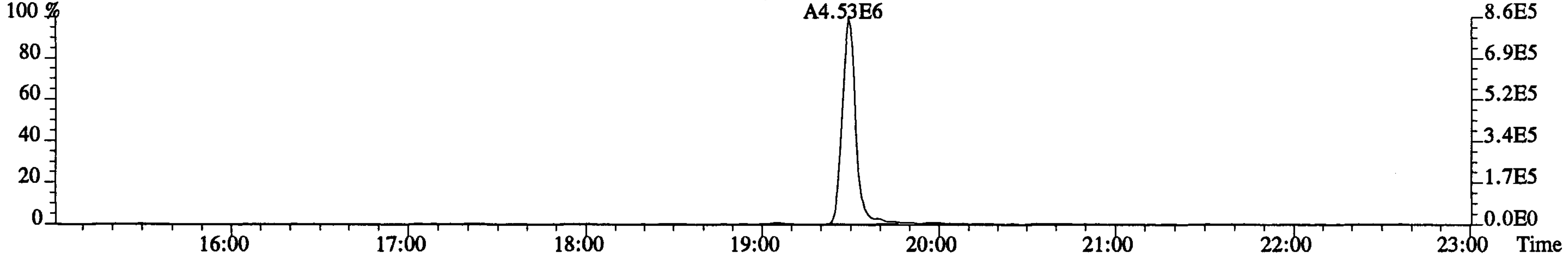


File:18OC104D5 #1-530 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES

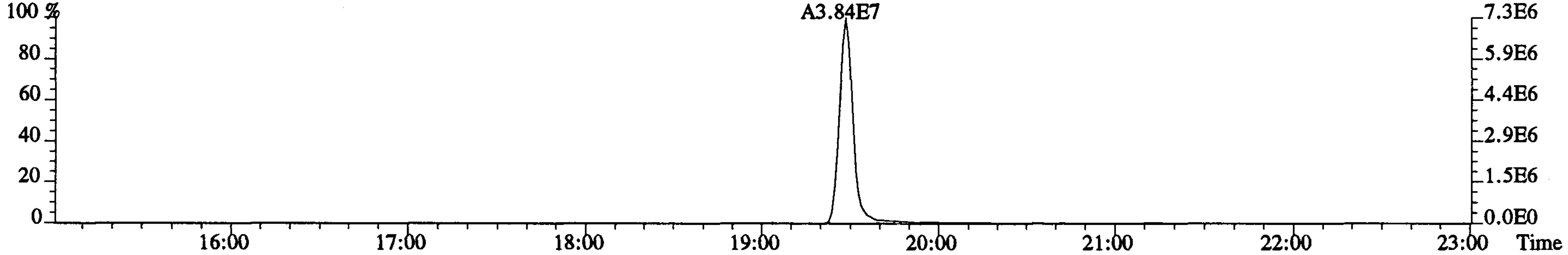
303.9016 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,304.0,1.00%,F,T)



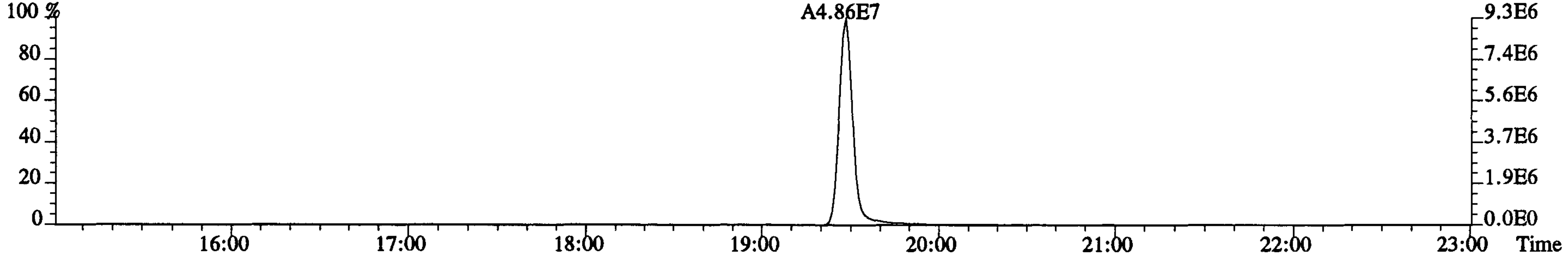
305.8987 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1592.0,1.00%,F,T)



315.9419 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2212.0,1.00%,F,T)

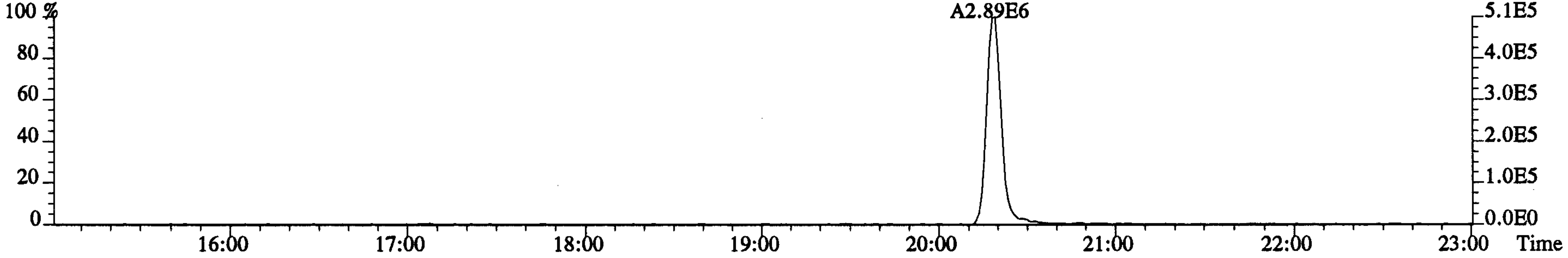


317.9389 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4432.0,1.00%,F,T)

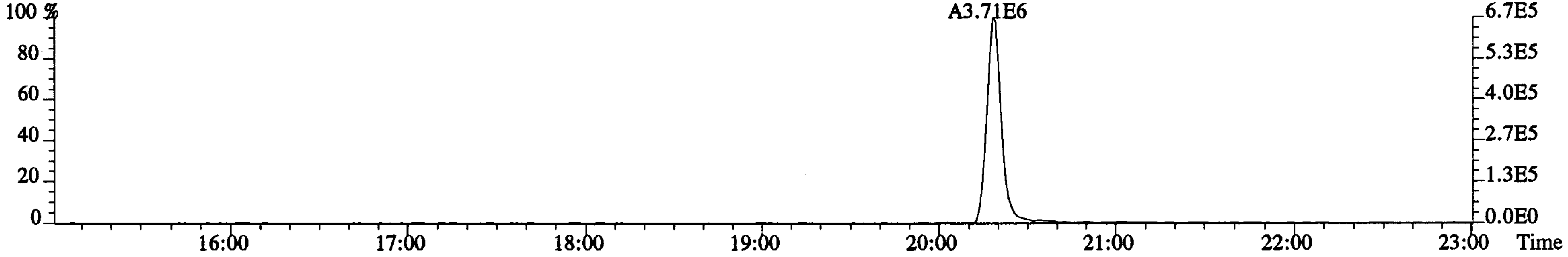


File:18OC104D5 #1-530 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES

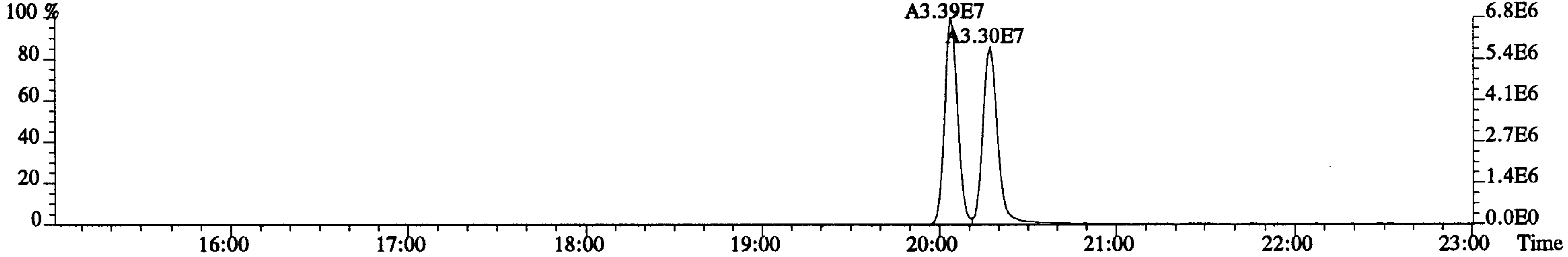
319.8965 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,652.0,1.00%,F,T)



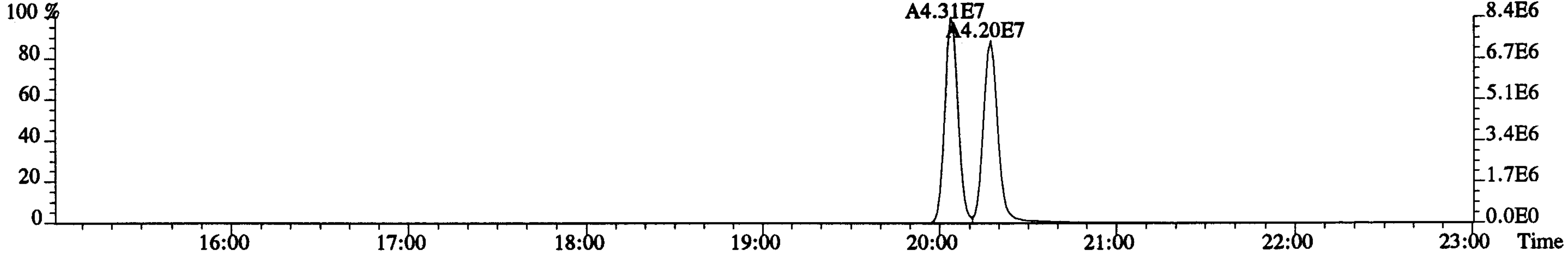
321.8936 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1192.0,1.00%,F,T)



331.9368 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6288.0,1.00%,F,T)

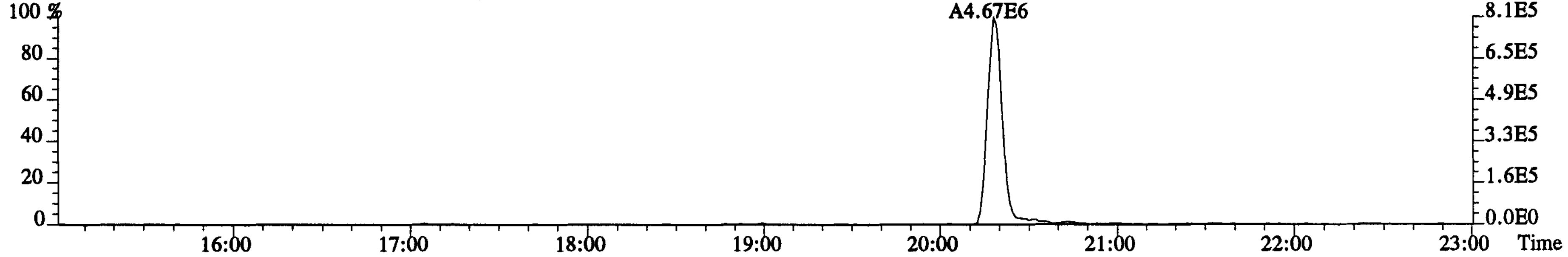


333.9339 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1544.0,1.00%,F,T)

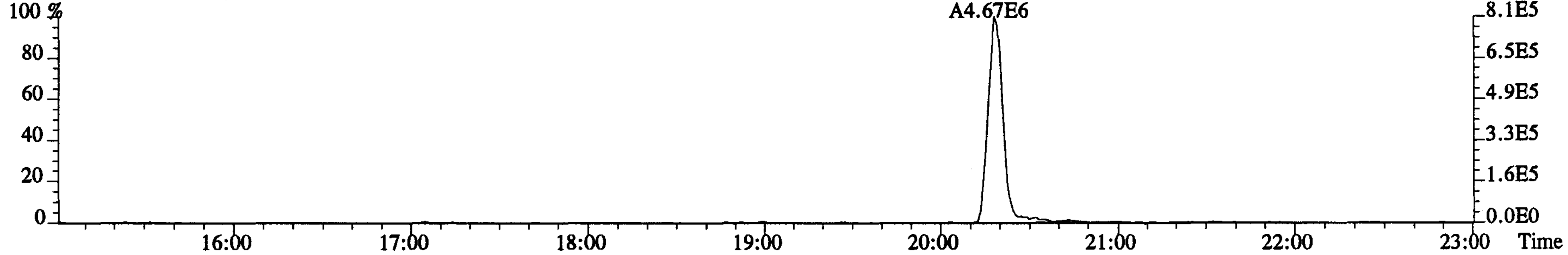


File:18OC104D5 #1-530 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES

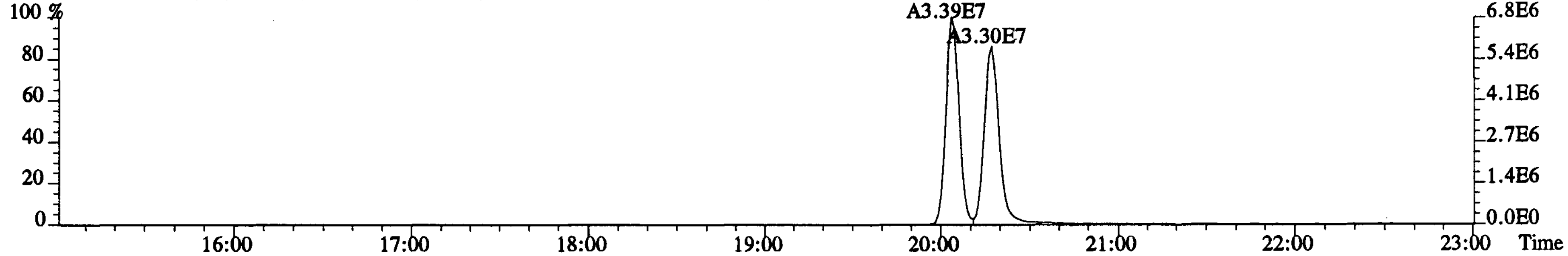
327.8847 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,96.0,1.00%,F,T)



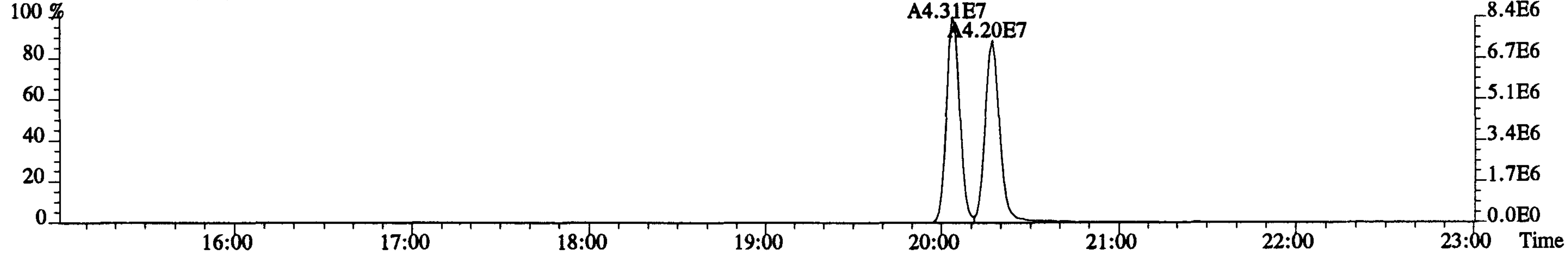
327.8847 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,96.0,1.00%,F,T)



331.9368 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6288.0,1.00%,F,T)

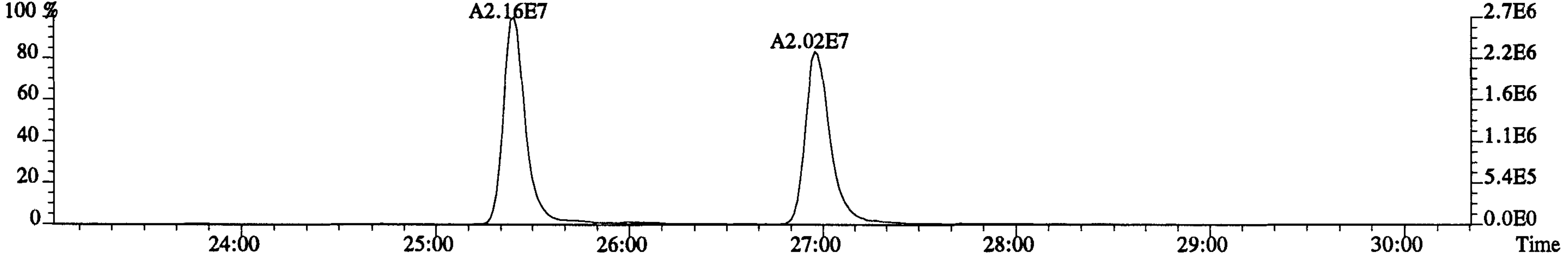


333.9339 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1544.0,1.00%,F,T)

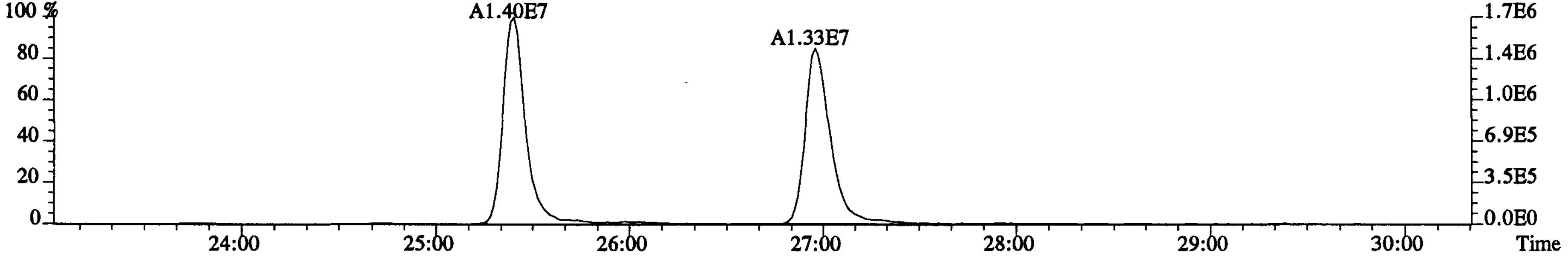


File:18OC104D5 #1-470 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES

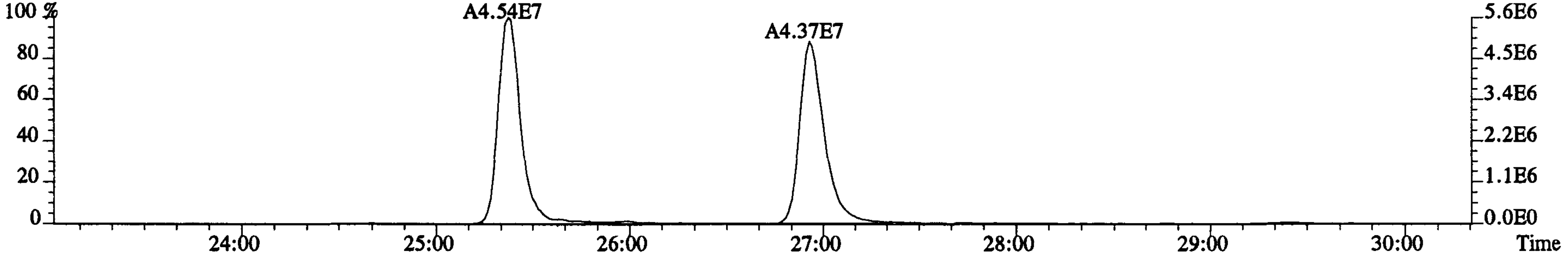
339.8597 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2128.0,1.00%,F,T)



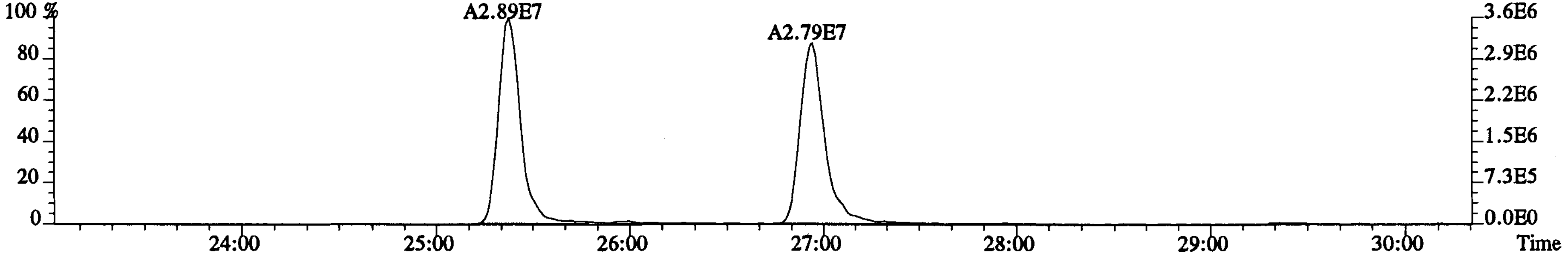
341.8567 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2536.0,1.00%,F,T)



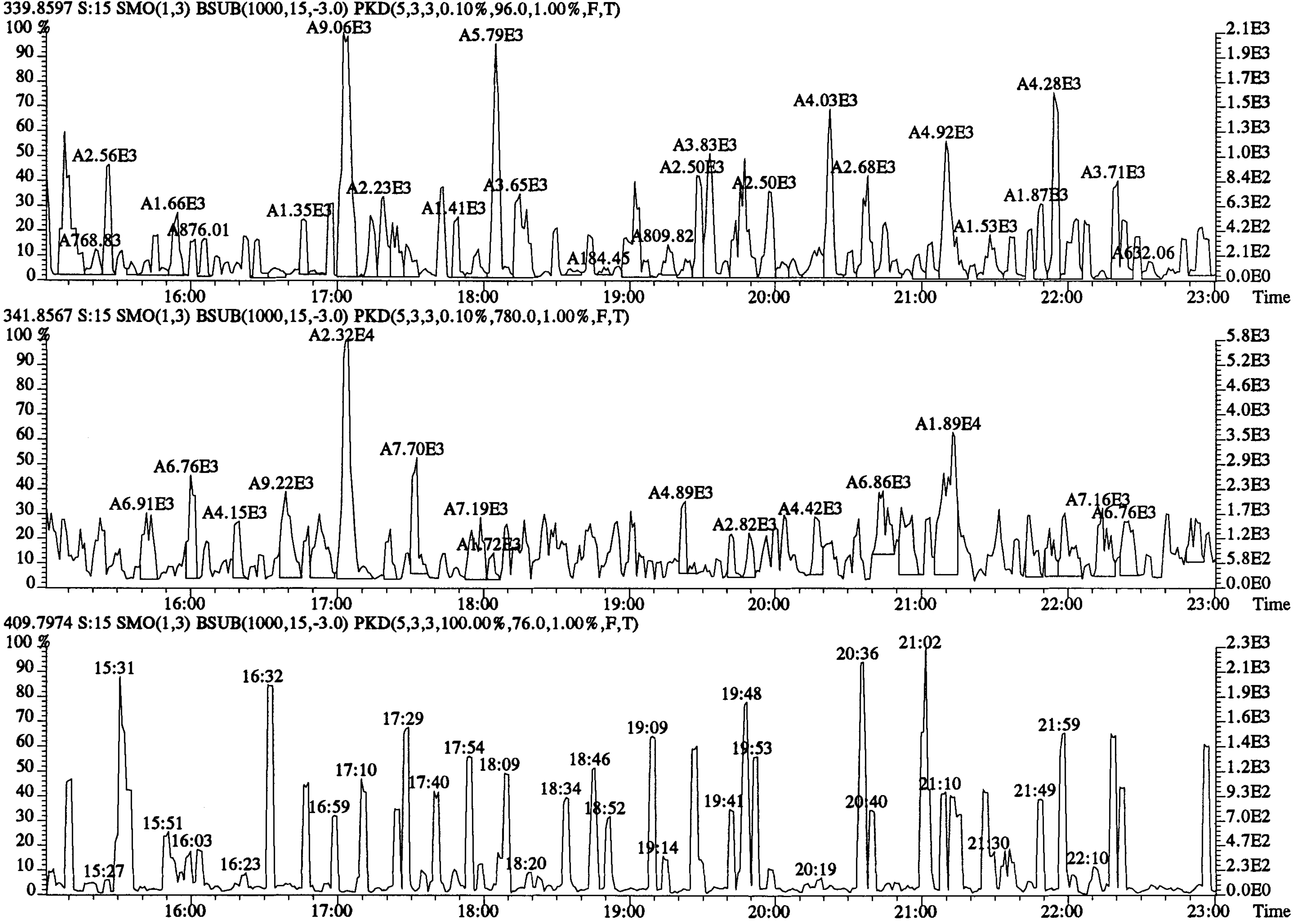
351.9000 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6060.0,1.00%,F,T)



353.8970 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7304.0,1.00%,F,T)

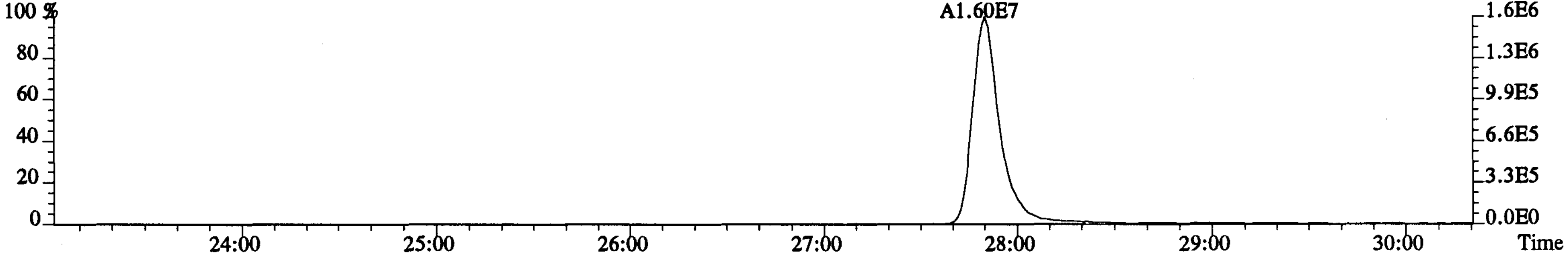


File:18OC104D5 #1-530 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES

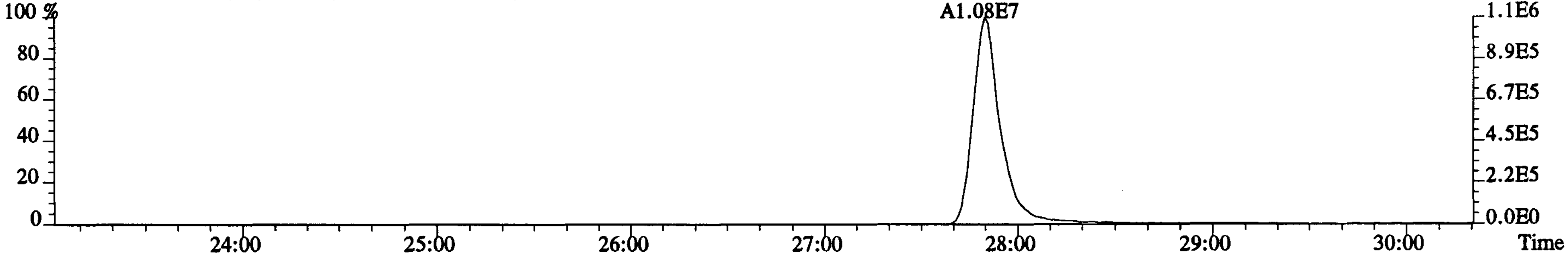


File:18OC104D5 #1-470 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES

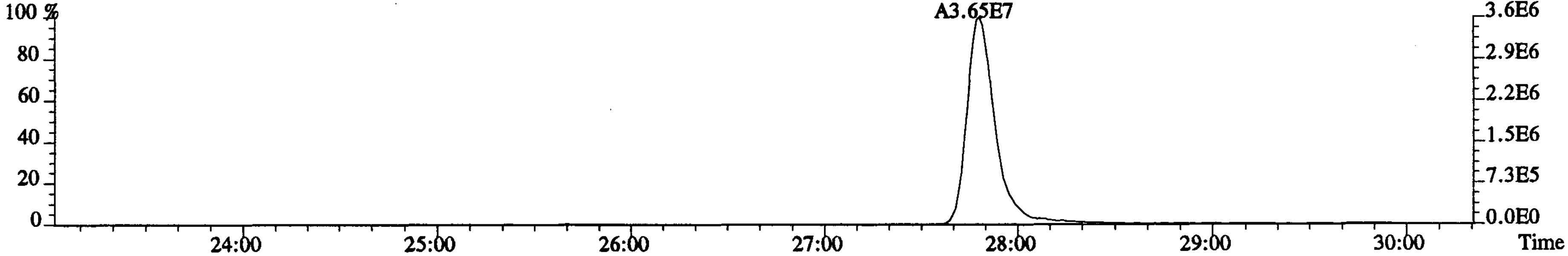
355.8546 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1512.0,1.00%,F,T)



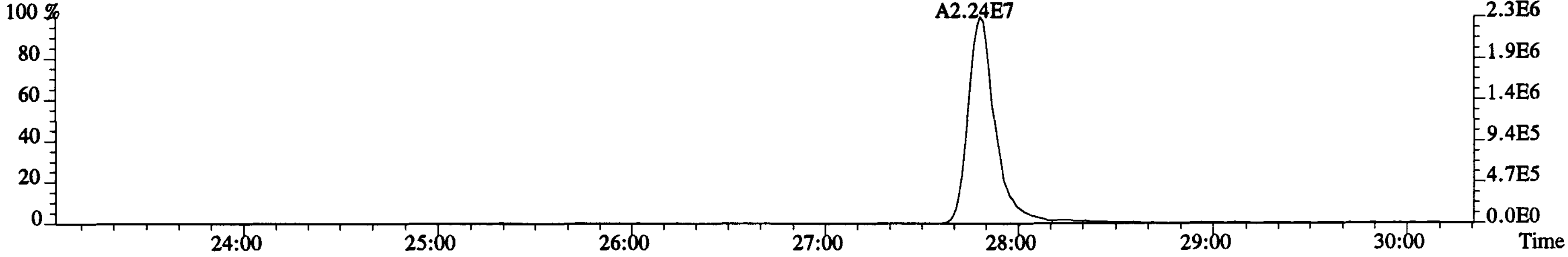
357.8516 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,96.0,1.00%,F,T)



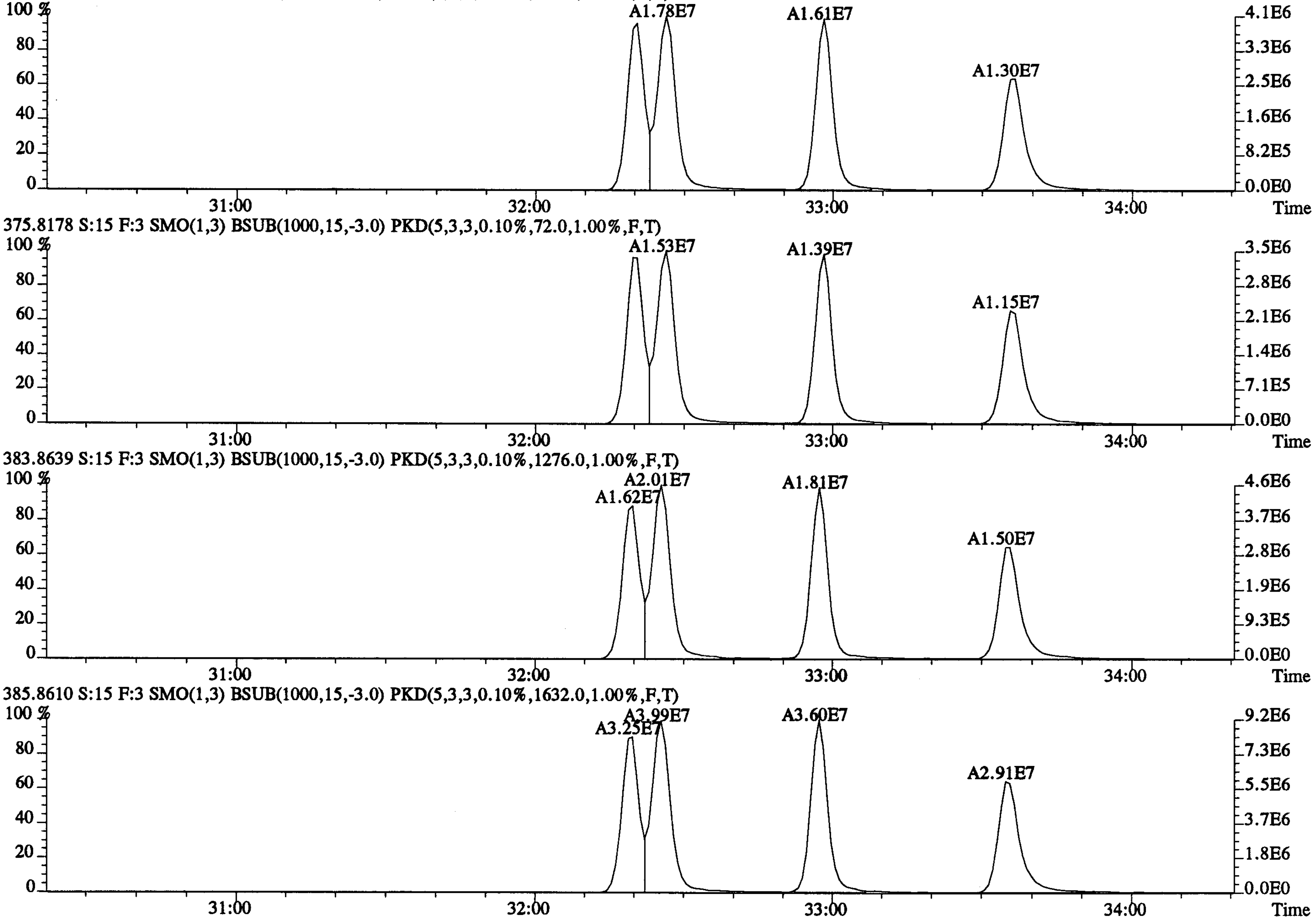
367.8949 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2512.0,1.00%,F,T)



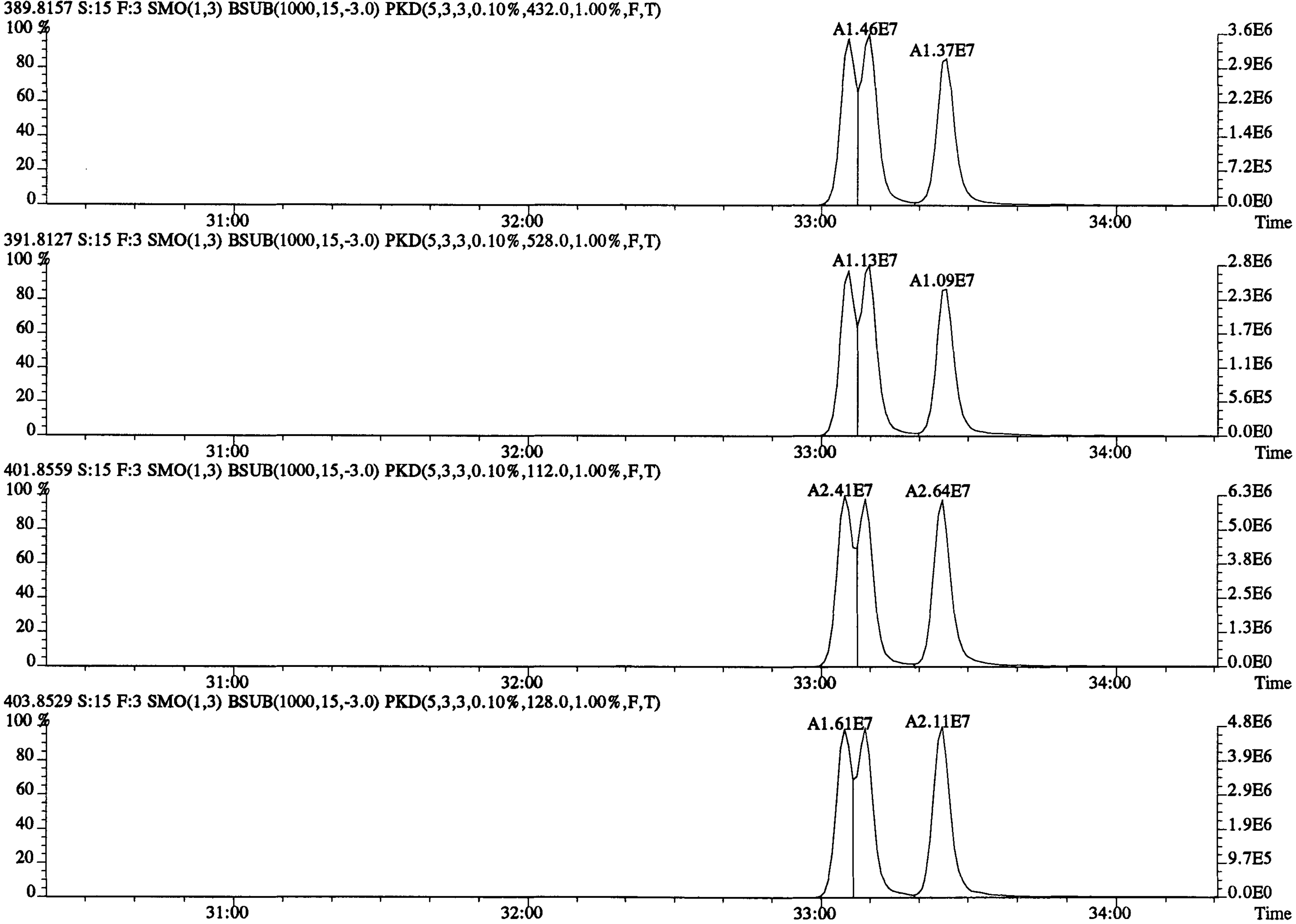
369.8919 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68.0,1.00%,F,T)



File:18OC104D5 #1-287 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES
373.8208 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,260.0,1.00%,F,T)



File:18OC104D5 #1-287 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES



389.8157 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,432.0,1.00%,F,T)

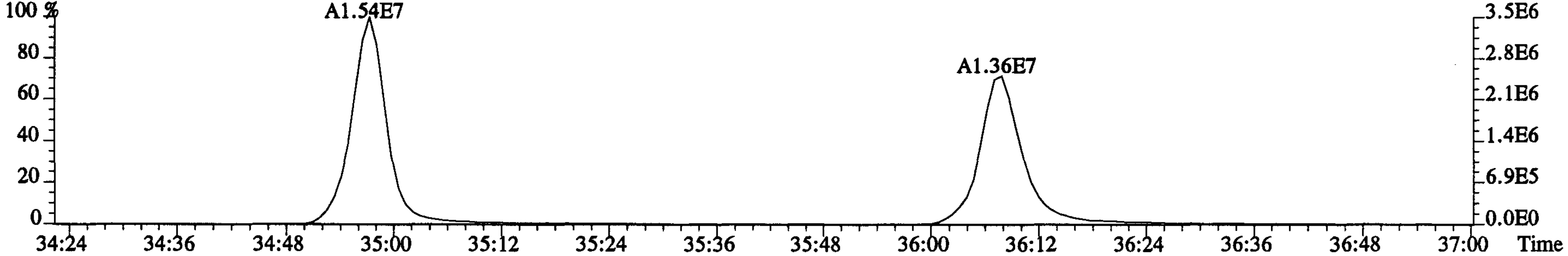
391.8127 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,528.0,1.00%,F,T)

401.8559 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,112.0,1.00%,F,T)

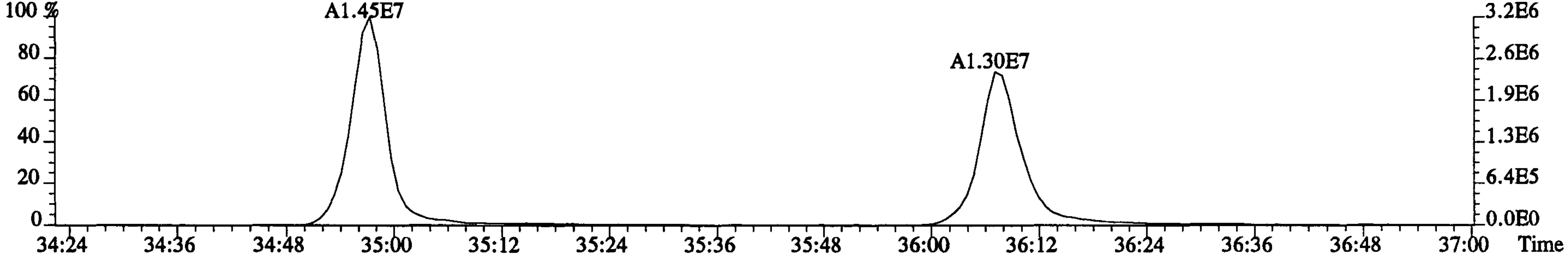
403.8529 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,128.0,1.00%,F,T)

File:18OC104D5 #1-200 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES

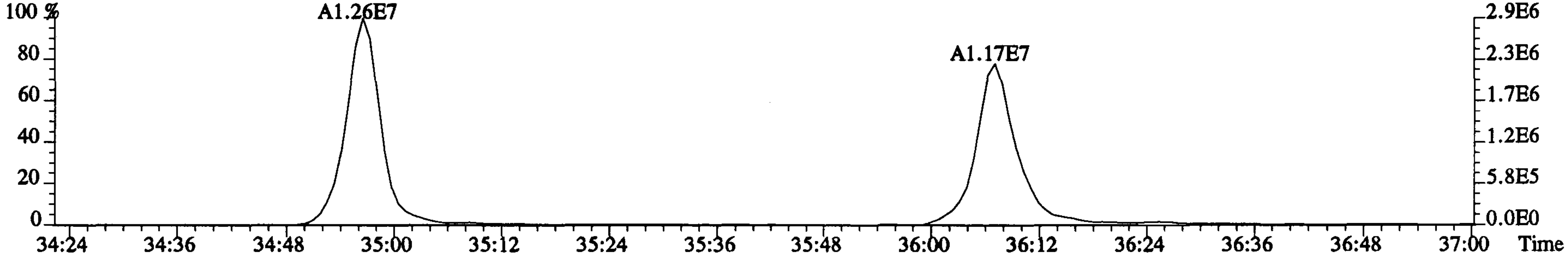
407.7818 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5904.0,1.00%,F,T)



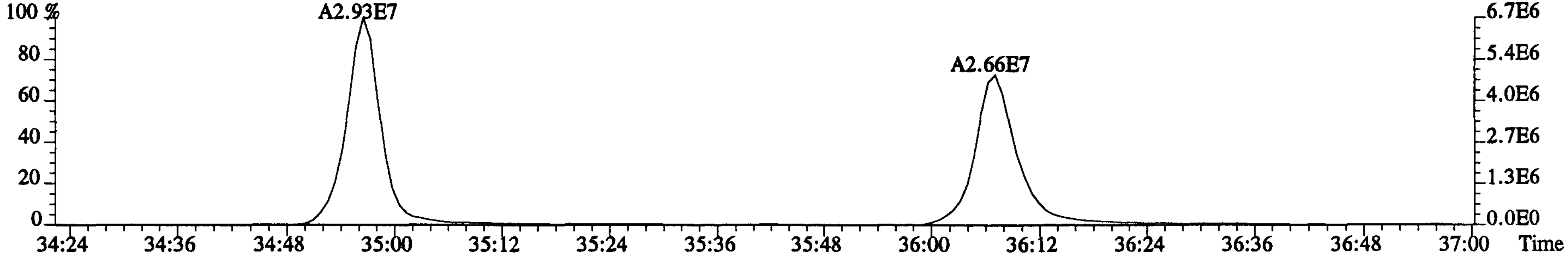
409.7789 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4384.0,1.00%,F,T)



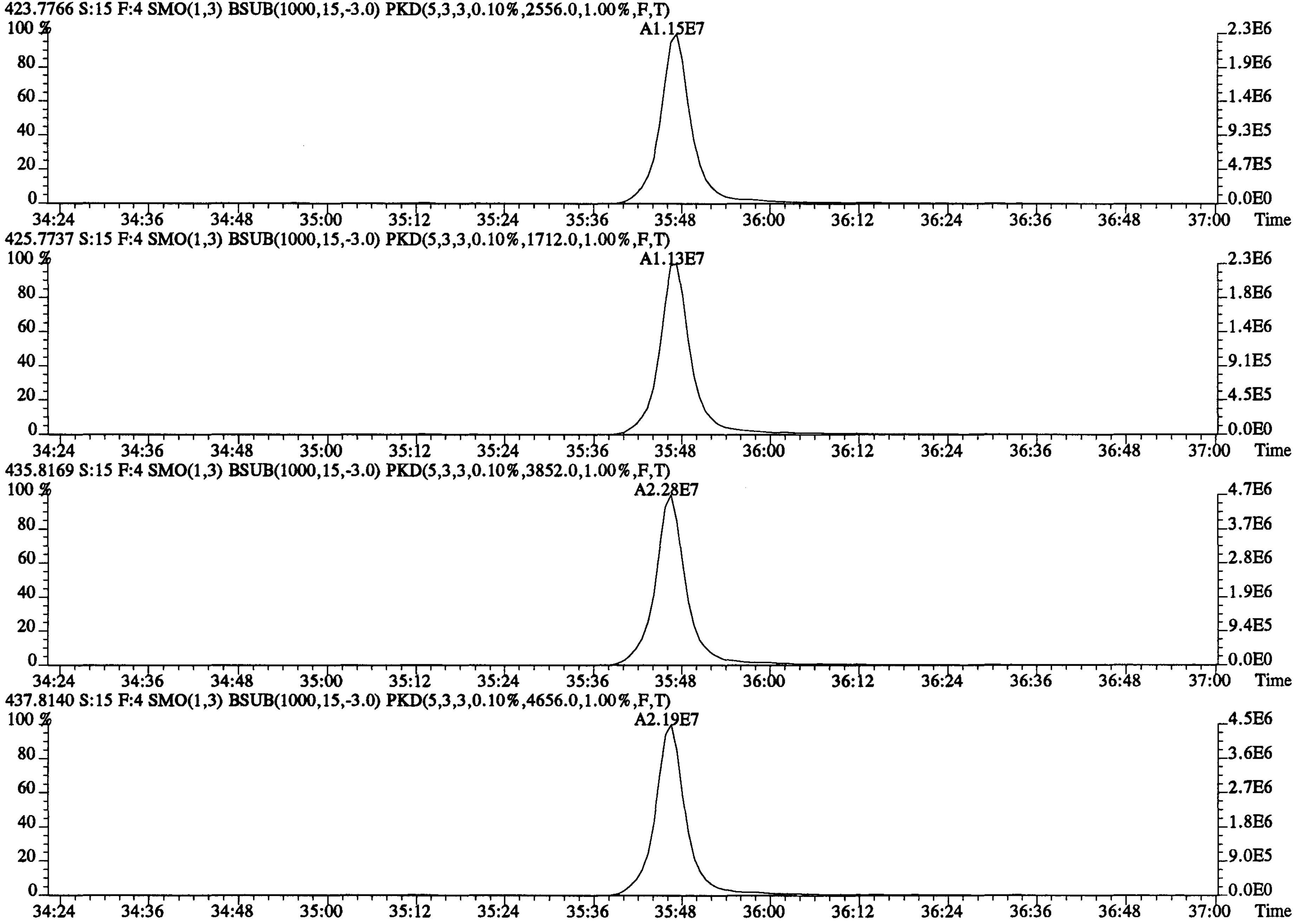
417.8253 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8104.0,1.00%,F,T)



419.8220 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6372.0,1.00%,F,T)



File:18OC104D5 #1-200 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES



423.7766 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2556.0,1.00%,F,T)

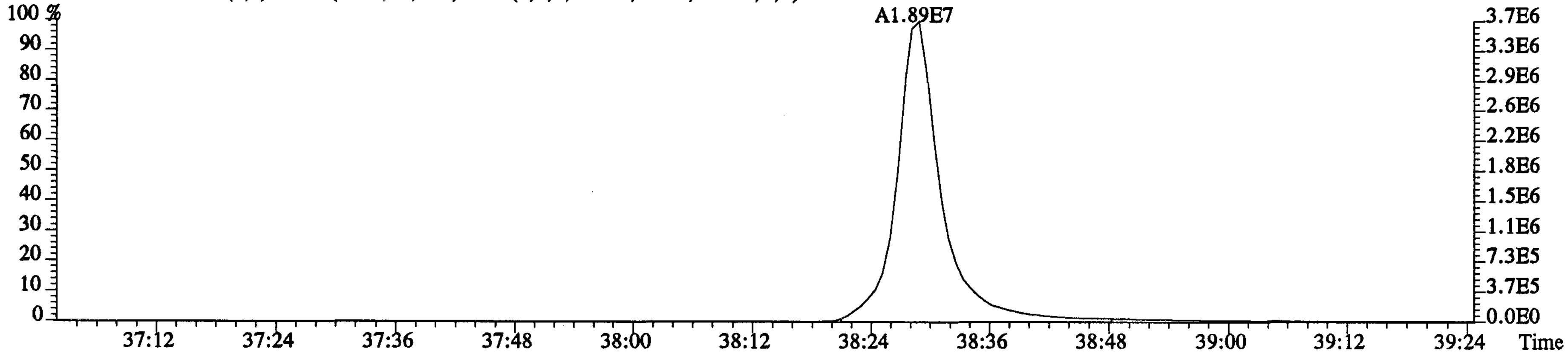
425.7737 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1712.0,1.00%,F,T)

435.8169 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3852.0,1.00%,F,T)

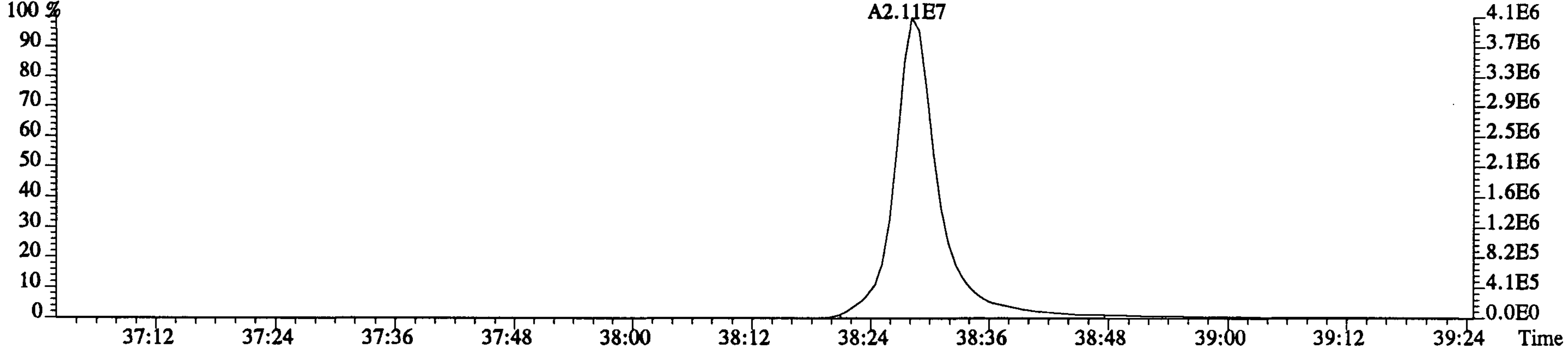
437.8140 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4656.0,1.00%,F,T)

File:18OC104D5 #1-193 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES

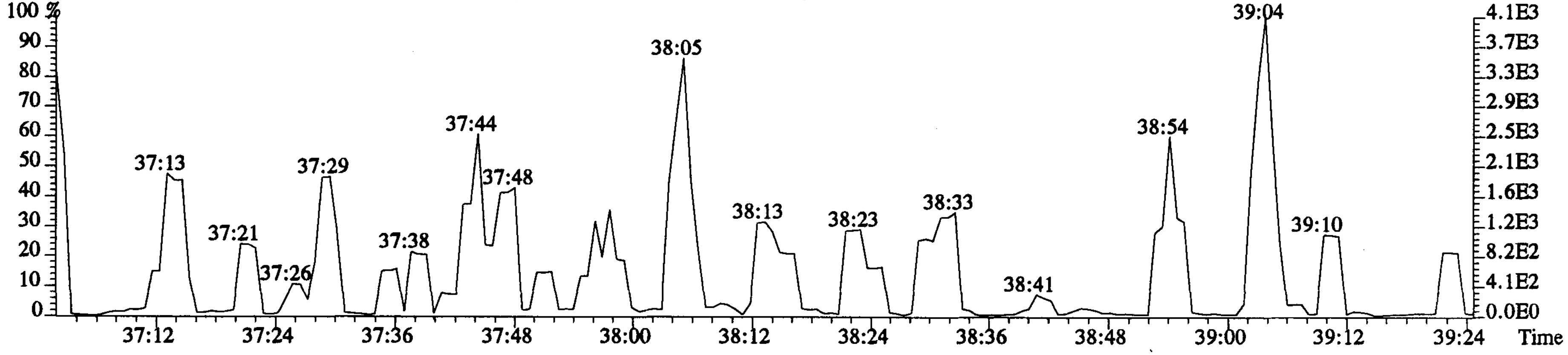
441.7428 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,296.0,1.00%,F,T)



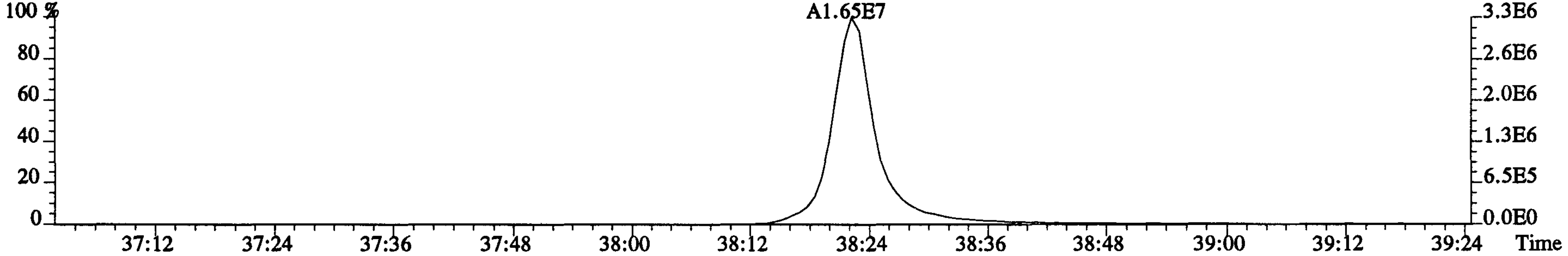
443.7399 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,632.0,1.00%,F,T)



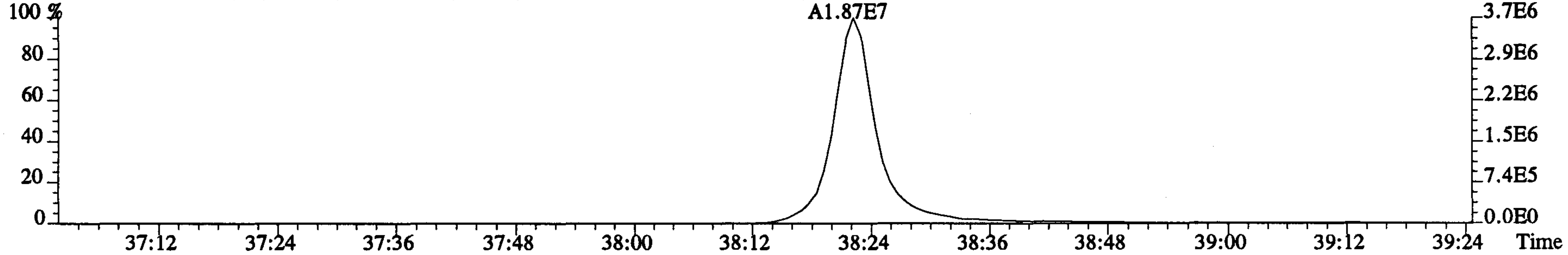
513.6775 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,52.0,1.00%,F,T)



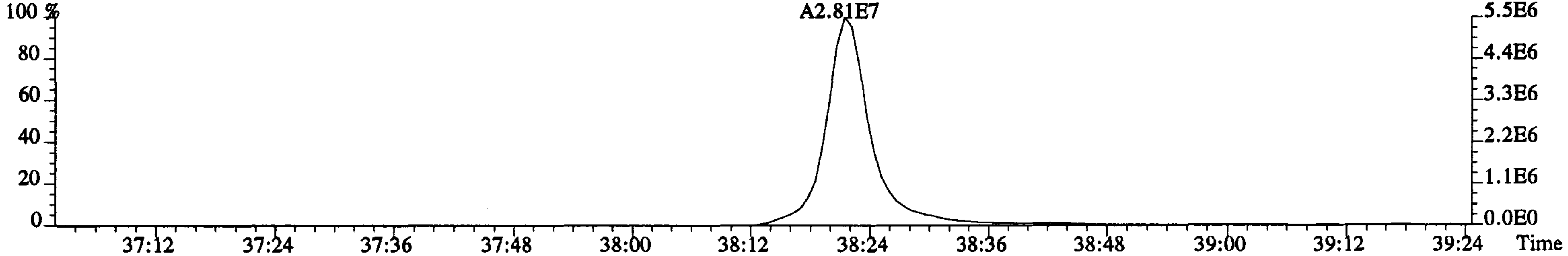
File:18OC104D5 #1-193 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES
457.7377 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3788.0,1.00%,F,T)



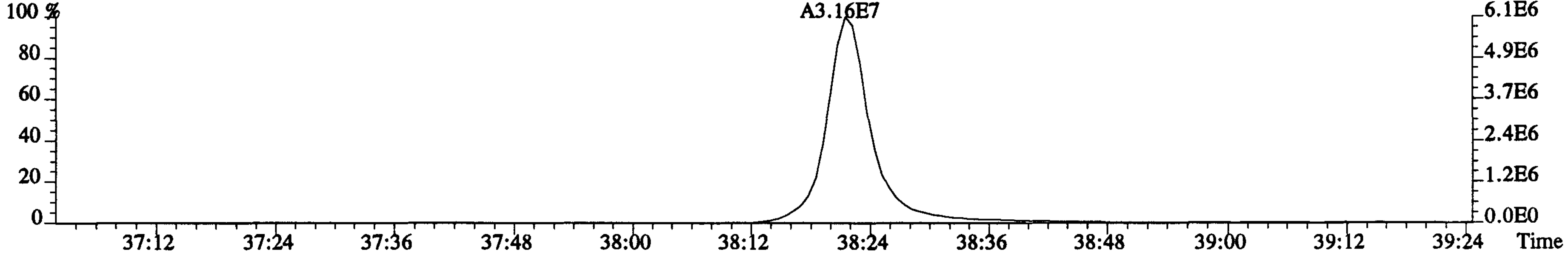
459.7348 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1004.0,1.00%,F,T)



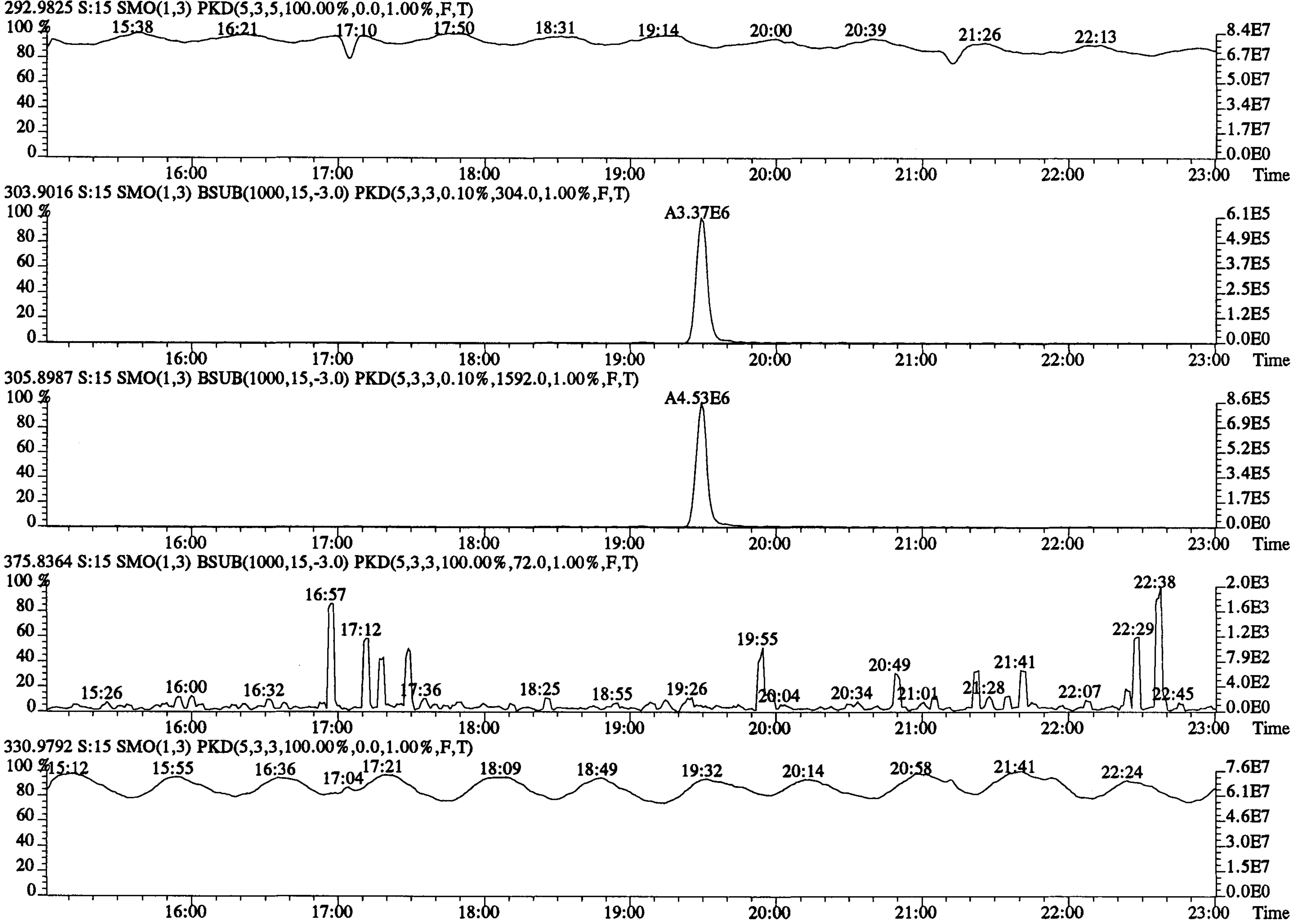
469.7779 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,188.0,1.00%,F,T)



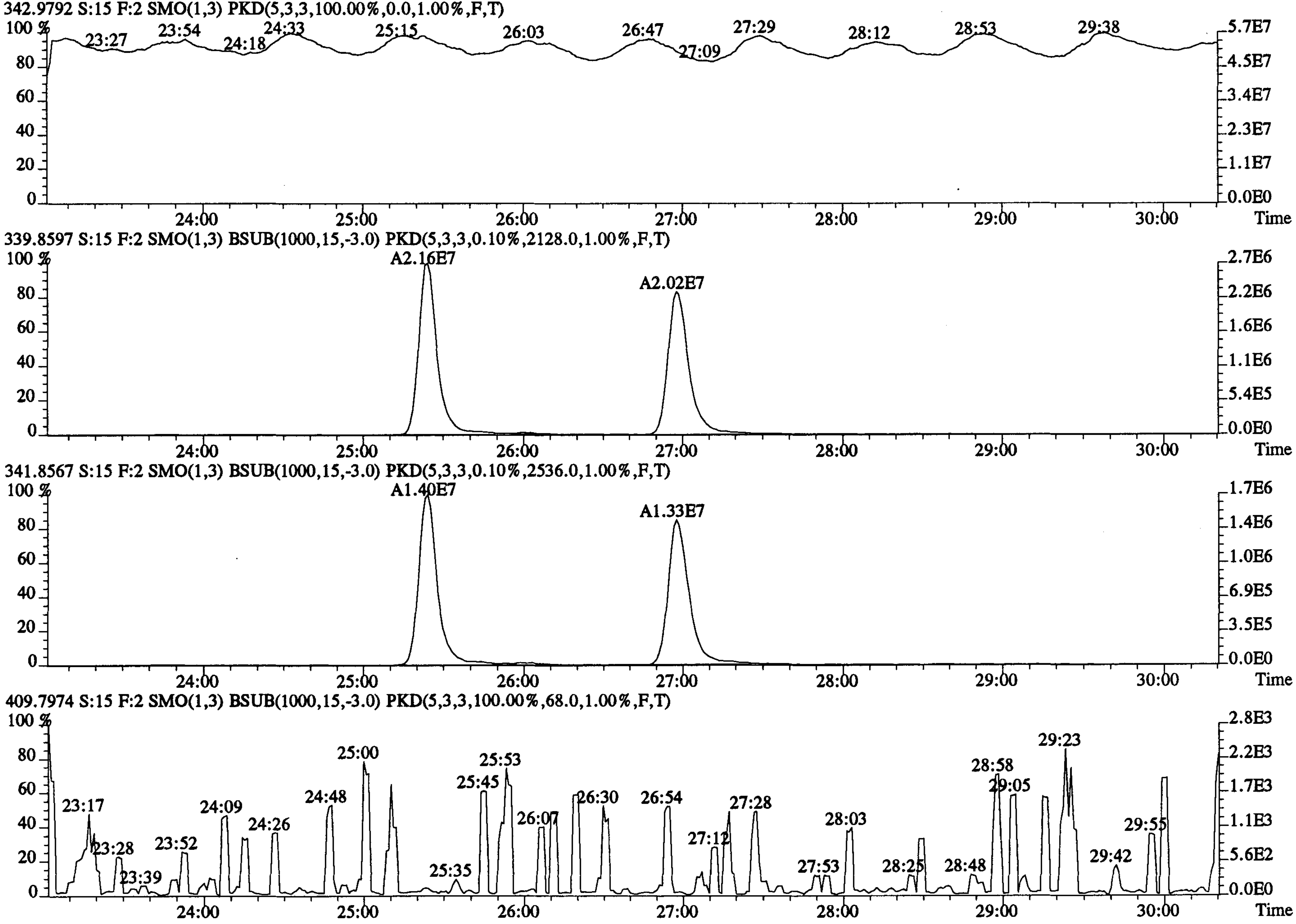
471.7750 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,92.0,1.00%,F,T)



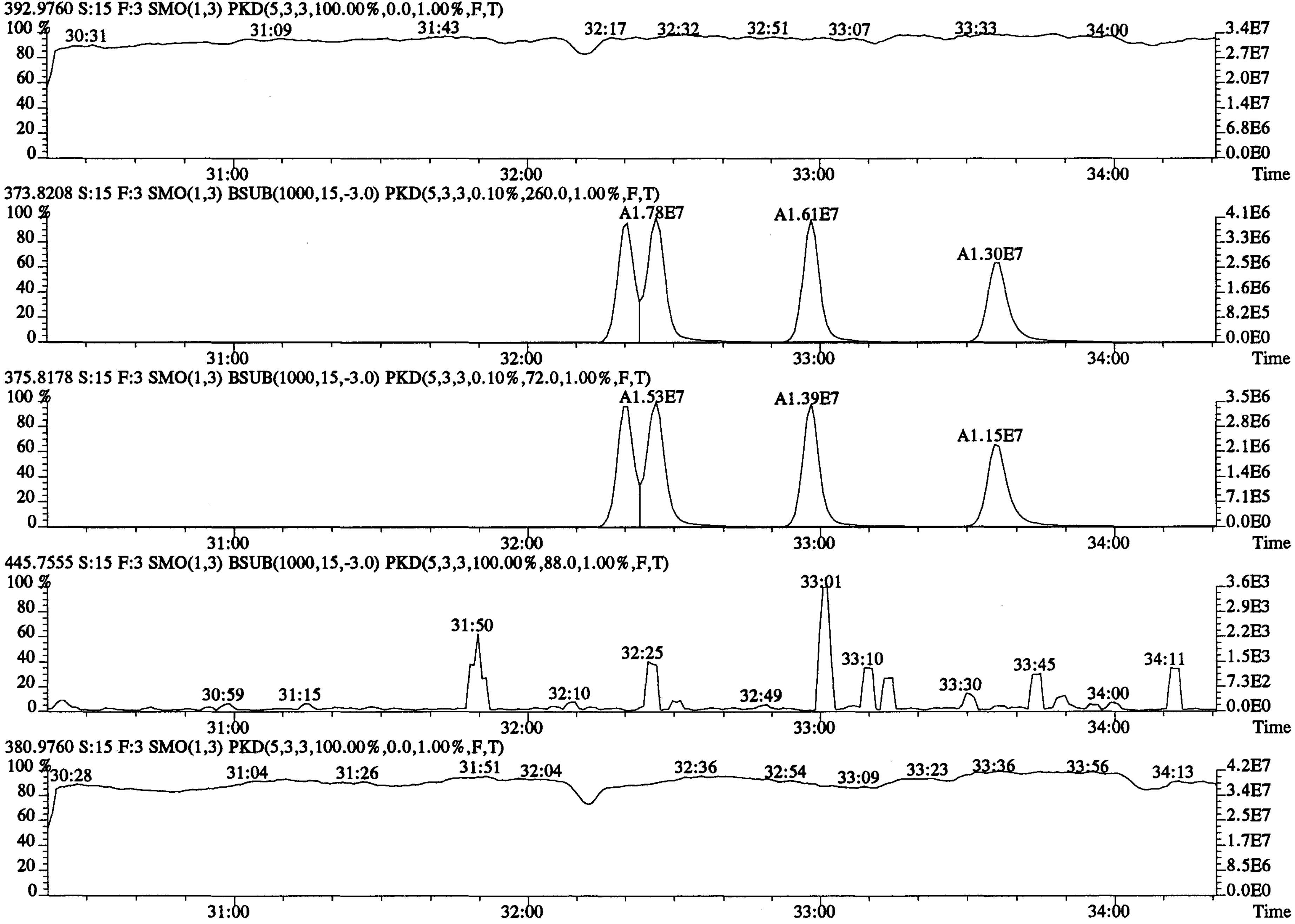
File:18OC104D5 #1-530 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES



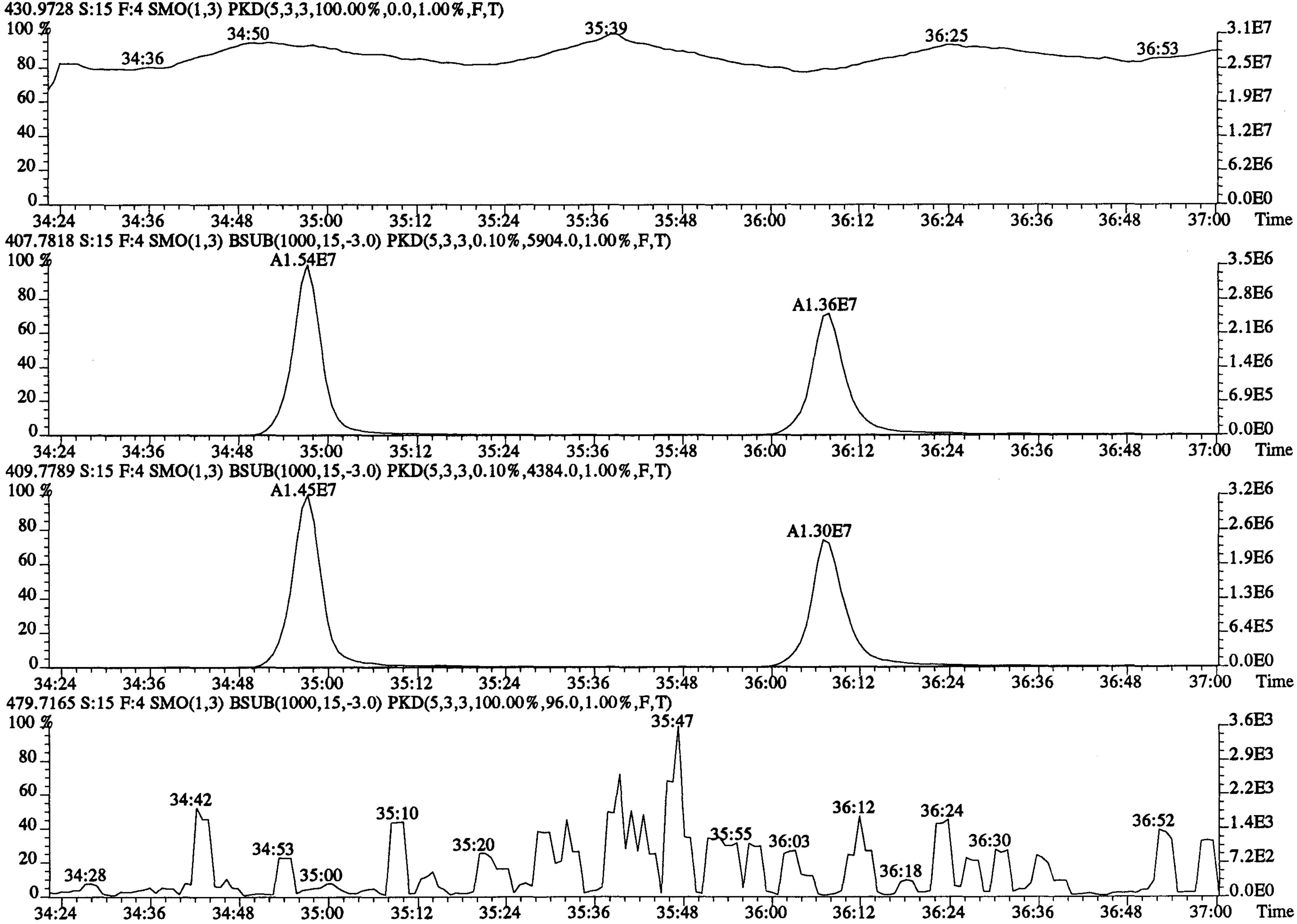
File:18OC104D5 #1-470 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES



File:18OC104D5 #1-287 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES

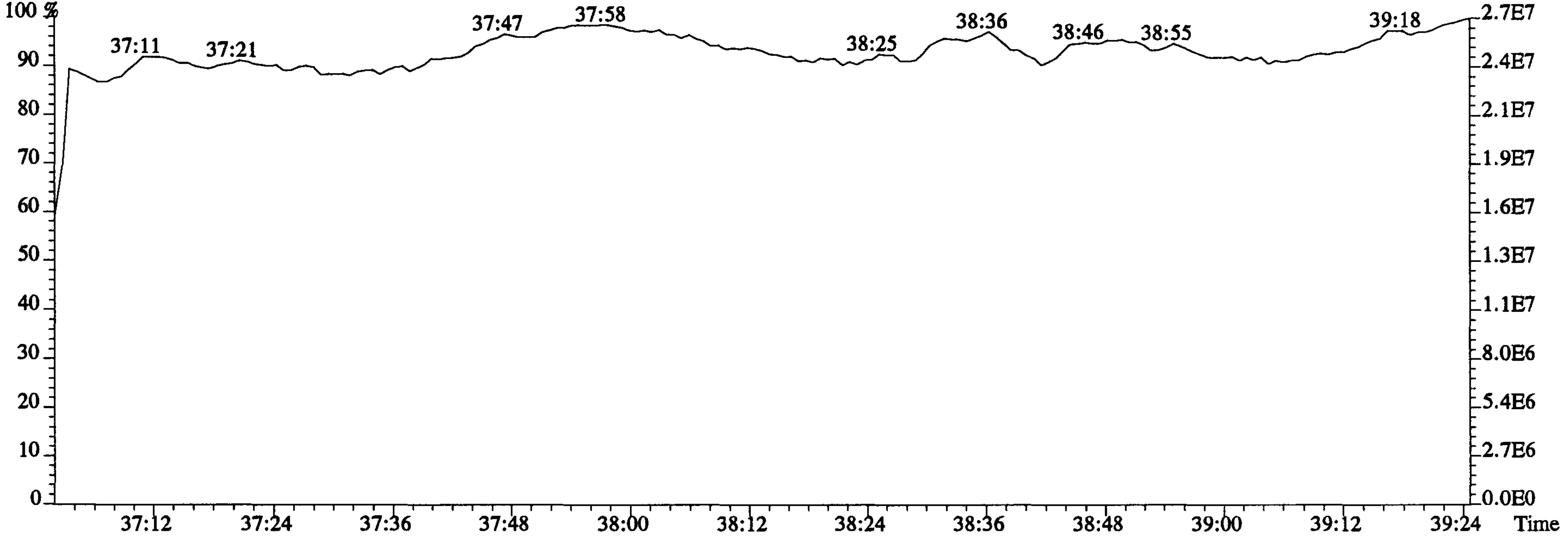


File:18OC104D5 #1-200 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES

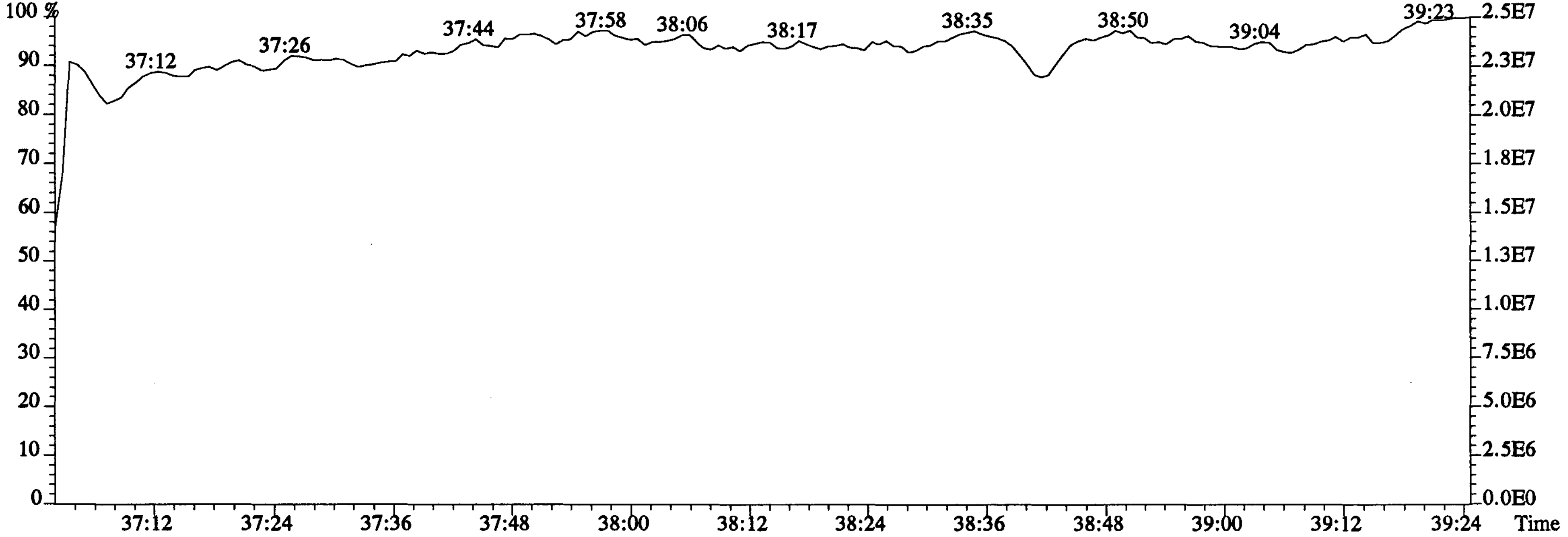


File:18OC104D5 #1-193 Acq:18-OCT-2010 19:31:22 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DIOXINRES

454.9728 S:15 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:15 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test America – West Sacramento

Daily Calibration Checklist
Dioxin Methods

Method ID TO9

Associated ICAL TO9 072110 4-D5

Column ID DB5

Instrument ID 4-D5

STD ID ST1014F , ST1014G

STD Solution 10DXN461

Analyzed by AZ

Date Analyzed 10-16-10

Std. Pkg. By AZ

Date Std. Pkg. Assembled 10-18-10

Std. Pkg. Reviewed By KSS

Date Std. Pkg. Reviewed 10/18/10

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?*	✓ ①	✓ ①
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:
① 1,2,3,4,7,8,9-HpCDF >25% in Ending std. ST1014G.
All samples with positive results for HpCDF shall be RI'd.
per NCM # 07-0114870

* **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.

N:\Hires\Forms\QA-231 Dioxin Daily Std Checklist.doc QA-231 8/10/09 DW

```
Run text: ST1014F                      File text: ST1014F :CS3 10DXN461
Run #16  Filename 14OC104D5   S: 62    I: 1
Acquired: 16-OCT-10   07:32:10            Processed: 16-OCT-10  23:16:38
Run: 14OC104D5    Analyte: TO9           Cal: TO90721104D5        Results: 14OC104D5TO9

                      Name       Resp    RA       RT    RRF    Amount    Dev'n  Mod?
           13C-1,2,3,4-TCDD  118056500  0.78 y  20:04      -   100.00        -  n

           13C-2,3,7,8-TCDF  156417800  0.79 y  19:29   1.32   100.00      7.8  n
               2,3,7,8-TCDF   15683190  0.81 y  19:30   1.00    10.00      0.8  n
                 Total TCDF   16030016  1.14 n  17:34   1.00    10.00      0.8  n

           13C-2,3,7,8-TCDD  116671000  0.79 y  20:18   0.99   100.00      9.2  n
               2,3,7,8-TCDD   11799380  0.76 y  20:20   1.01    10.00      2.8  n
                 Total TCDD   11834219  1.24 n  19:00   1.01    10.00      2.8  n

          37Cl-2,3,7,8-TCDD   15262000  1.00 y  20:19   1.31    10.00     -1.4  n

        13C-1,2,3,7,8-PeCDF  116227400  1.57 y  25:25   0.98   100.00     12.4  n
            1,2,3,7,8-PeCDF   65840200  1.54 y  25:27   1.13    50.00      5.2  n
            2,3,4,7,8-PeCDF   58913200  1.54 y  27:01   1.01    50.00     -3.0  n
             Total F2 PeCDF  126032696  1.47 y  23:52   1.07   100.00      1.2  n
             Total F1 PeCDF     107588  0.26 n  15:24   1.07   100.00      1.2  n

        13C-1,2,3,7,8-PeCDD   77949300  1.57 y  27:51   0.66   100.00     -0.1  n
            1,2,3,7,8-PeCDD   42371800  1.47 y  27:53   1.09    50.00     17.5  n
                Total PeCDD   42872275  4.31 n  27:12   1.09    50.00     17.5  n

      13C-1,2,3,7,8,9-HxCDD   75342800  1.30 y  33:25      -   100.00        -  n

      13C-1,2,3,4,7,8-HxCDF   72334300  0.51 y  32:20   0.96   100.00     -8.1  n
          1,2,3,4,7,8-HxCDF   46103900  1.18 y  32:20   1.27    50.00      4.7  n
          1,2,3,6,7,8-HxCDF   54677800  1.17 y  32:27   1.51    50.00     18.0  n
          2,3,4,6,7,8-HxCDF   49818400  1.18 y  32:58   1.38    50.00     11.7  n
          1,2,3,7,8,9-HxCDF   43807300  1.18 y  33:36   1.21    50.00     10.3  n
                Total HxCDF  194497648  1.45 n  31:22   1.34   200.00     11.3  n

      13C-1,2,3,6,7,8-HxCDD   70334200  1.28 y  33:10   0.93   100.00     12.4  n
          1,2,3,4,7,8-HxCDD   34549100  1.25 y  33:05   0.98    50.00     -5.3  n
          1,2,3,6,7,8-HxCDD   41936000  1.31 y  33:10   1.19    50.00      2.6  n
          1,2,3,7,8,9-HxCDD   40971800  1.27 y  33:25   1.17    50.00     -1.4  n
                Total HxCDD  117676409  1.25 y  33:05   1.11   150.00     -1.2  n

    13C-1,2,3,4,6,7,8-HpCDF   63620900  0.44 y  34:57   0.84   100.00     -7.2  n
        1,2,3,4,6,7,8-HpCDF   49219800  1.05 y  34:58   1.55    50.00     15.0  n
        1,2,3,4,7,8,9-HpCDF   41451000  1.04 y  36:08   1.30    50.00     19.2  n
                Total HpCDF   91457590  1.05 y  34:58   1.43   100.00     16.9  n

    13C-1,2,3,4,6,7,8-HpCDD   59943700  1.07 y  35:47   0.80   100.00     -3.7  n
        1,2,3,4,6,7,8-HpCDD   34179500  1.03 y  35:48   1.14    50.00      6.4  n
                Total HpCDD   34480408  1.02 y  35:12   1.14    50.00      6.4  n

                   13C-OCDD   84954700  0.88 y  38:21   0.56   200.00     -9.1  n
                       OCDF   62343300  0.89 y  38:29   1.47   100.00      7.1  n
                       OCDD   52907200  0.88 y  38:21   1.25   100.00      3.9  n
```

```
Run text: ST1014G                      File text: ST1014G :CS3 10DXN461
Run #17  Filename 14OC104D5   S: 76    I: 1
Acquired: 16-OCT-10   18:05:15            Processed: 16-OCT-10  23:16:39
Run: 14OC104D5    Analyte: TO9          Cal: TO90721104D5       Results: 14OC104D5TO9


                    Name        Resp    RA        RT    RRF    Amount     Dev'n  Mod?
          13C-1,2,3,4-TCDD   129554100  0.80 y  20:06      -   100.00        -   n

          13C-2,3,7,8-TCDF   173099800  0.79 y  19:31   1.34   100.00       8.7  n
              2,3,7,8-TCDF    17532780  0.80 y  19:32   1.01    10.00       1.8  n
                Total TCDF    17750293  0.65 n  18:33   1.01    10.00       1.8  n

          13C-2,3,7,8-TCDD   126614400  0.80 y  20:20   0.98   100.00       8.0  n
              2,3,7,8-TCDD    13624940  0.76 y  20:21   1.08    10.00       9.4  n
                Total TCDD    13730655  1.68 n  17:03   1.08    10.00       9.4  n

         37Cl-2,3,7,8-TCDD    16426040  1.00 y  20:21   1.30    10.00      -2.2  n

      13C-1,2,3,7,8-PeCDF    142385600  1.59 y  25:27   1.10   100.00      25.5  n
          1,2,3,7,8-PeCDF     83151000  1.57 y  25:29   1.17    50.00       8.5  n
          2,3,4,7,8-PeCDF     81474600  1.55 y  27:02   1.14    50.00       9.5  n
           Total F2 PeCDF    166305613  2.08 n  23:51   1.16   100.00       9.0  n
           Total F1 PeCDF        20352  0.35 n  17:05   1.16   100.00       9.0  n

      13C-1,2,3,7,8-PeCDD    101913700  1.59 y  27:52   0.79   100.00      19.0  n
          1,2,3,7,8-PeCDD     56339700  1.49 y  27:53   1.11    50.00      19.5  n
              Total PeCDD     56339700  1.49 y  27:53   1.11    50.00      19.5  n

    13C-1,2,3,7,8,9-HxCDD    108432100  1.27 y  33:26      -   100.00        -   n

    13C-1,2,3,4,7,8-HxCDF    107435800  0.51 y  32:20   0.99   100.00      -5.2  n
        1,2,3,4,7,8-HxCDF     70912800  1.18 y  32:21   1.32    50.00       8.5  n
        1,2,3,6,7,8-HxCDF     78723700  1.19 y  32:28   1.47    50.00      14.3  n
        2,3,4,6,7,8-HxCDF     75776400  1.19 y  32:59   1.41    50.00      14.4  n
        1,2,3,7,8,9-HxCDF     68471100  1.21 y  33:37   1.27    50.00      16.1  n
              Total HxCDF    293884000  1.18 y  32:21   1.37   200.00      13.3  n

    13C-1,2,3,6,7,8-HxCDD     92691700  1.30 y  33:10   0.85   100.00       2.9  n
        1,2,3,4,7,8-HxCDD     54555500  1.26 y  33:06   1.18    50.00      13.5  n
        1,2,3,6,7,8-HxCDD     56318200  1.29 y  33:11   1.22    50.00       4.5  n
        1,2,3,7,8,9-HxCDD     60734500  1.28 y  33:26   1.31    50.00      10.9  n
              Total HxCDD    171608200  1.26 y  33:06   1.23   150.00       9.5  n

  13C-1,2,3,4,6,7,8-HpCDF     95601600  0.45 y  34:58   0.88   100.00      -3.1  n
      1,2,3,4,6,7,8-HpCDF     73690000  1.07 y  34:59   1.54    50.00      14.6  n
      1,2,3,4,7,8,9-HpCDF     67639900  1.04 y  36:08   1.42    50.00      29.4  n
              Total HpCDF    142018230  1.07 y  34:59   1.48   100.00      21.2  n

  13C-1,2,3,4,6,7,8-HpCDD     98046800  1.05 y  35:47   0.90   100.00       9.4  n
      1,2,3,4,6,7,8-HpCDD     55093000  1.03 y  35:48   1.12    50.00       4.9  n
              Total HpCDD     55336079  1.14 y  35:13   1.12    50.00       4.9  n

                 13C-OCDD    152734800  0.89 y  38:21   0.70   200.00      13.6  n
                     OCDF    109278700  0.89 y  38:29   1.43   100.00       4.4  n
                     OCDD     95715000  0.90 y  38:22   1.25   100.00       4.5  n
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Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
14OC104D5	1	CP1014	DB-5 CPSM 3732-09				1.00000	
14OC104D5	2	ST1014	CS3 10DXN426				1.00000	
14OC104D5	3	SB1014	Solvent Blank C-14				1.00000	
14OC104D5	4	L7L47-1-AC	G0I280550-1	20	8290/SOLID	73	2.01000	g
14OC104D5	5	L7L49-1-AC	G0I280550-2	20	8290/SOLID		1.93000	g
14OC104D5	6	L7L5A-1-AC	G0I280550-3	20	8290/SOLID		1.98000	g
14OC104D5	7	L7L5C-1-AC	G0I280550-4	20	8290/SOLID		2.01000	g
14OC104D5	8	L7L5E-1-AC	G0I280550-5	20	8290/SOLID		1.94000	g
14OC104D5	9	L7L5F-1-AC	G0I280550-6	20	8290/SOLID		2.03000	g
14OC104D5	10	L7L5G-1-AC	G0I280550-7	20	8290/SOLID		1.90000	g
14OC104D5	11	L7L5H-1-AC	G0I280550-8	20	8290/SOLID		1.94000	g
14OC104D5	12	L7L5J-1-AC	G0I280550-9	20	8290/SOLID		1.92000	g
14OC104D5	13	L7L5K-1-AC	G0I280550-10	20	8290/SOLID		2.14000	g
14OC104D5	14	SB1014A	Solvent Blank C-14				1.00000	
14OC104D5	15	ST1014A	CS3 10DXN426				1.00000	
14OC104D5	16	ST1014B	CS3 10DXN461				1.00000	
14OC104D5	17	CP1014A	DB-5 CPSM 3732-09				1.00000	
14OC104D5	18	SB1014A	Solvent Blank C-14				1.00000	
14OC104D5	19	L7L5L-1-AC	G0I280550-11	20	8290/SOLID	73	1.99000	g
14OC104D5	20	L7L5N-1-AC	G0I280550-12	20	8290/SOLID		1.91000	g
14OC104D5	21	L7L5P-1-AC	G0I280550-13	20	8290/SOLID		1.95000	g
14OC104D5	22	L7L5Q-1-AC	G0I280550-14	20	8290/SOLID		2.01000	g
4OC104D5	23	L7L5T-1-AC	G0I280550-15	20	8290/SOLID		1.95000	g
OC104D5	24	L7L5V-1-AC	G0I280550-16	20	8290/SOLID		1.96000	g
14OC104D5	25	L7L5W-1-AC	G0I280550-17	20	8290/SOLID		1.97000	g
14OC104D5	26	L7L5X-1-AC	G0I280550-18	20	8290/SOLID		1.96000	g
14OC104D5	27	L7L50-1-AC	G0I280550-19	20	8290/SOLID		1.95000	g
14OC104D5	28	L7L50-1-AD	G0I280550-19MS	20	8290/SOLID		1.98000	g
14OC104D5	29	L7L50-1-AE	G0I280550-19MSD	20	8290/SOLID		1.94000	g
14OC104D5	30	SB1014B	Solvent Blank C-14				1.00000	
14OC104D5	31	ST1014C	CS3 10DXN461				1.00000	
14OC104D5	32	CP1014B	DB-5 CPSM 3732-09				1.00000	
14OC104D5	33	L7CJR-1-AA	G0I220000-350 (448MB)	20	TO9/AIR	59	0.66667	SAM
14OC104D5	34	L7CJR-1-AC	G0I220000-350 (448LCS)	20	TO9/AIR		0.66667	SAM
14OC104D5	35	L78WG-1-AA	G0J090500-7	20	TO9/AIR	79	0.50000	SAM
14OC104D5	36	L78WH-1-AA	G0J090500-8	20	TO9/AIR		0.50000	SAM
14OC104D5	37	L7VXN-2-AA	G0J010574-1RX	20	8290/WASTE	80	0.10200	g
14OC104D5	38	L7VXQ-2-AA	G0J010574-2RX	20	8290/WASTE		0.10400	g
14OC104D5	39	L7VXR-2-AA	G0J010574-3RX	20	8290/WASTE		0.10100	g
14OC104D5	40	L7VXT-2-AA	G0J010574-4RX	20	8290/WASTE		0.09900	g
14OC104D5	41	L7VXV-2-AA	G0J010574-5RX	20	8290/WASTE		0.10300	g
14OC104D5	42	L7VXW-2-AA	G0J010574-6RX	20	8290/WASTE		0.10200	g
14OC104D5	43	L79L2-1-AC	G0J090500-7LCS	20	TO9/AIR	79	0.50000	SAM
14OC104D5	44	L79L2-1-AD	G0J090500-7DCS	20	TO9/AIR		0.50000	SAM
14OC104D5	45	L79L2-1-AA	G0J090500-7MB	20	TO9/AIR		0.50000	SAM
14OC104D5	46	ST1014D	CS3 10DXN461				1.00000	
14OC104D5	47	CP1014C	DB-5 CPSM 3732-09				1.00000	
14OC104D5	48	L8DET-1-AA	G0J010574-1MB	20	8290/WASTE	80	0.10000	g
OC104D5	49	L8DET-1-AC	G0J010574-1LCS	20	8290/WASTE		0.10000	g
4OC104D5	50	L7VXX-2-AA	G0J010574-7RX	20	8290/WASTE		0.10100	g
14OC104D5	51	L7VX0-2-AA	G0J010574-8RX	20	8290/WASTE		0.10100	g
14OC104D5	52	L7VX1-2-AA	G0J010574-9RX	20	8290/WASTE		0.10300	g
14OC104D5	53	L7VX3-2-AA	G0J010574-10RX	20	8290/WASTE		0.10100	g

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14OC104D5  55  L7VX5-2-AA   G0J010574-12RX            20   8290/WASTE         0.10700  g
14OC104D5  56  L7VX6-2-AA   G0J010574-13RX            20   8290/WASTE         0.10300  g
14OC104D5  57  L7VX7-2-AA   G0J010574-14RX            20   8290/WASTE         0.10300  g
14OC104D5  58  L7VX8-2-AA   G0J010574-15RX            20   8290/WASTE         0.10100  g
14OC104D5  59  L7VX9-2-AA   G0J010574-16RX            20   8290/WASTE         0.10500  g
14OC104D5  60  SB1014C      Solvent Blank C-14                                1.00000
14OC104D5  61  ST1014E      CS3 10DXN461                                      1.00000
14OC104D5  62  ST1014F      CS3 10DXN461                                      1.00000
14OC104D5  63  CP1014D      DB-5 CPSM 3732-09                                 1.00000
14OC104D5  64  L8A5X-1-AA   G0J120000-255 (429-MB)    20   TO9/AIR      81    0.50000  sam
14OC104D5  65  L8AK8-1-AA   G0J120429-2               20   TO9/AIR            0.50000  sam
14OC104D5  66  L8ALT-1-AA   G0J120429-5               20   TO9/AIR            0.50000  sam
14OC104D5  67  L7A5X-1-AC   G0I220545-1               20   8290/WATER   61    1.03389  L
14OC104D5  68  L7A6M-1-AC   G0I220545-2               20   8290/WATER         0.98333  L
14OC104D5  69  L7A6Q-1-AC   G0I220545-3               20   8290/WATER         1.02129  L
14OC104D5  70  L7A6R-1-AD   G0I220545-4               20   8290/SOLID   63    10.10000 g
14OC104D5  71  L7A6X-1-AD   G0I220545-5               20   8290/SOLID   63    10.02000 g
14OC104D5  72  L7A60-1-AD   G0I220545-6               20   8290/SOLID         10.18000 g
14OC104D5  73  L7A62-1-AD   G0I220545-7               20   8290/SOLID         10.00000 g
14OC104D5  74  L8A5X-1-AC   G0J120000-255 (429-LCS)   20   TO9/AIR      81    0.50000  sam
14OC104D5  75  L8A5X-1-AD   G0J120000-255 (429-DCS)   20   TO9/AIR            0.50000  sam
14OC104D5  76  ST1014G      CS3 10DXN461                                      1.00000
14OC104D5  77  ST1014H      CS3 10DXN461                                      1.00000
14OC104D5  78  CP1014E      DB-5 CPSM 3732-09                                 1.00000
14OC104D5  79                                                                 1.00000
14OC104D5  80                                                                 1.00000
14OC104D5  81                                                                 1.00000
14OC104D5  82                                                                 1.00000
14OC104D5  83               AS 10-14-10                                       1.00000
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log file reviewed
10-16-10 am

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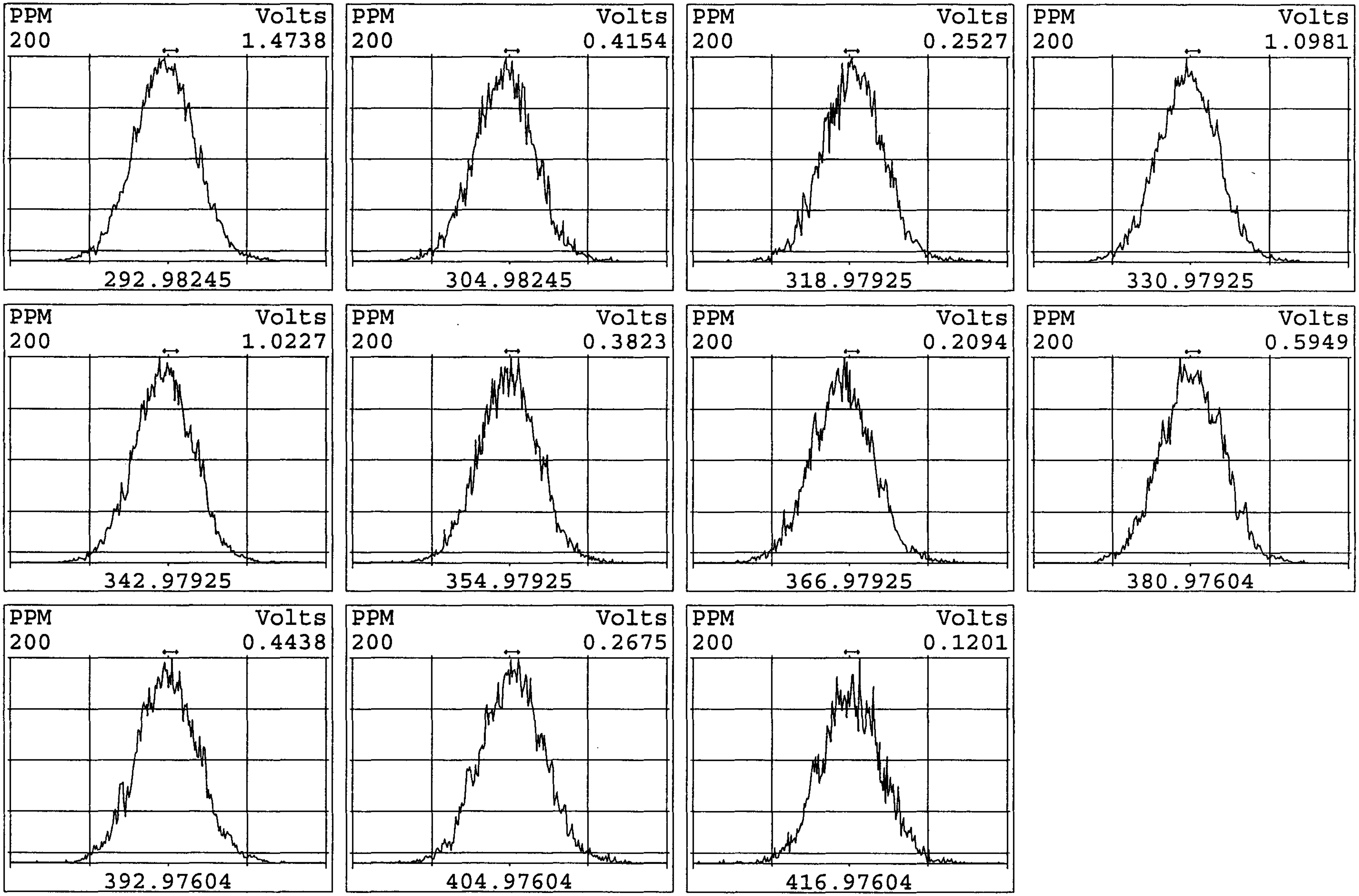
Experiment:DIOXINRES Function:1 Reference:PFK



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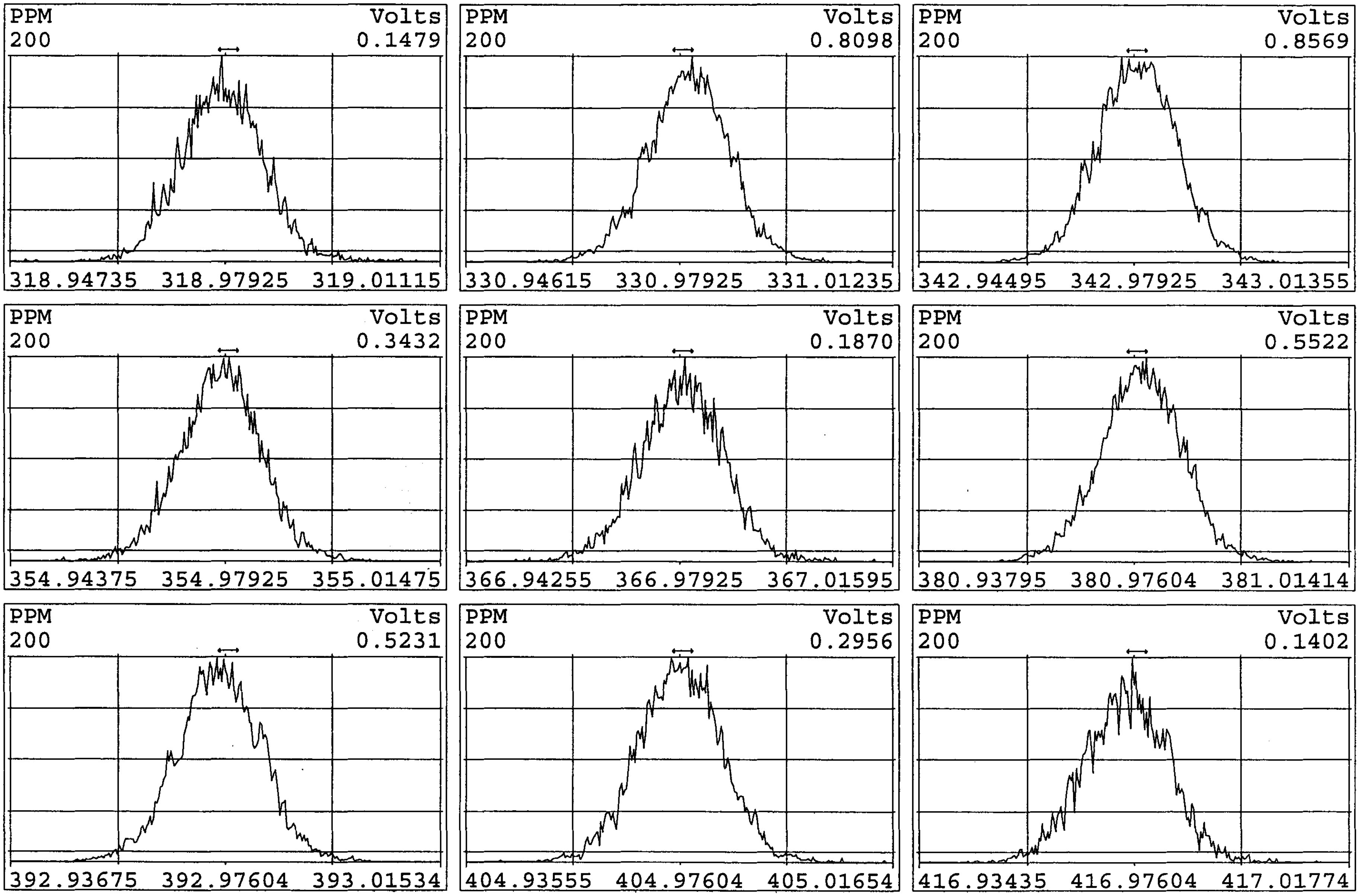
Experiment:DIOXINRES Function:2 Reference:PFK



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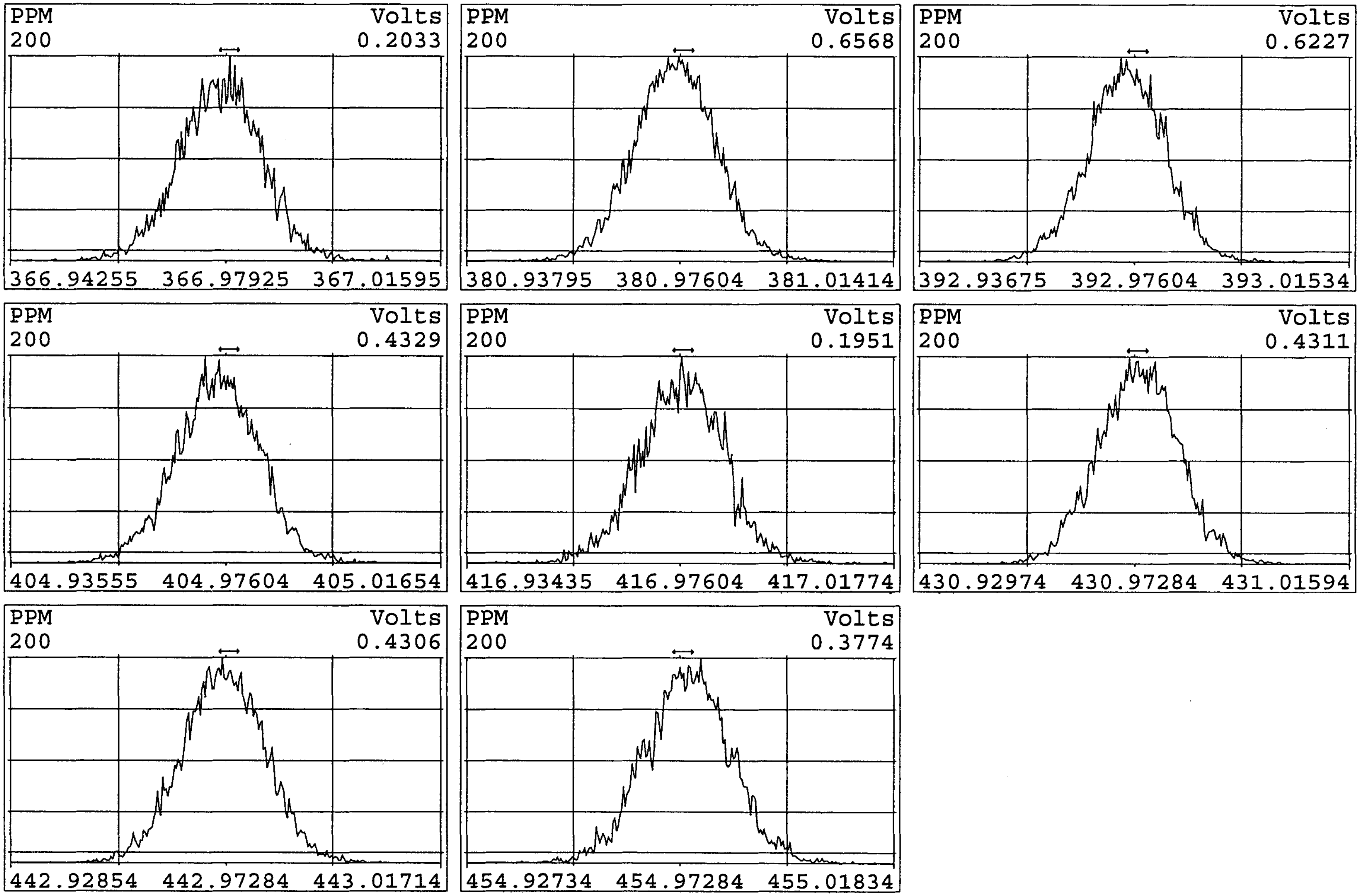
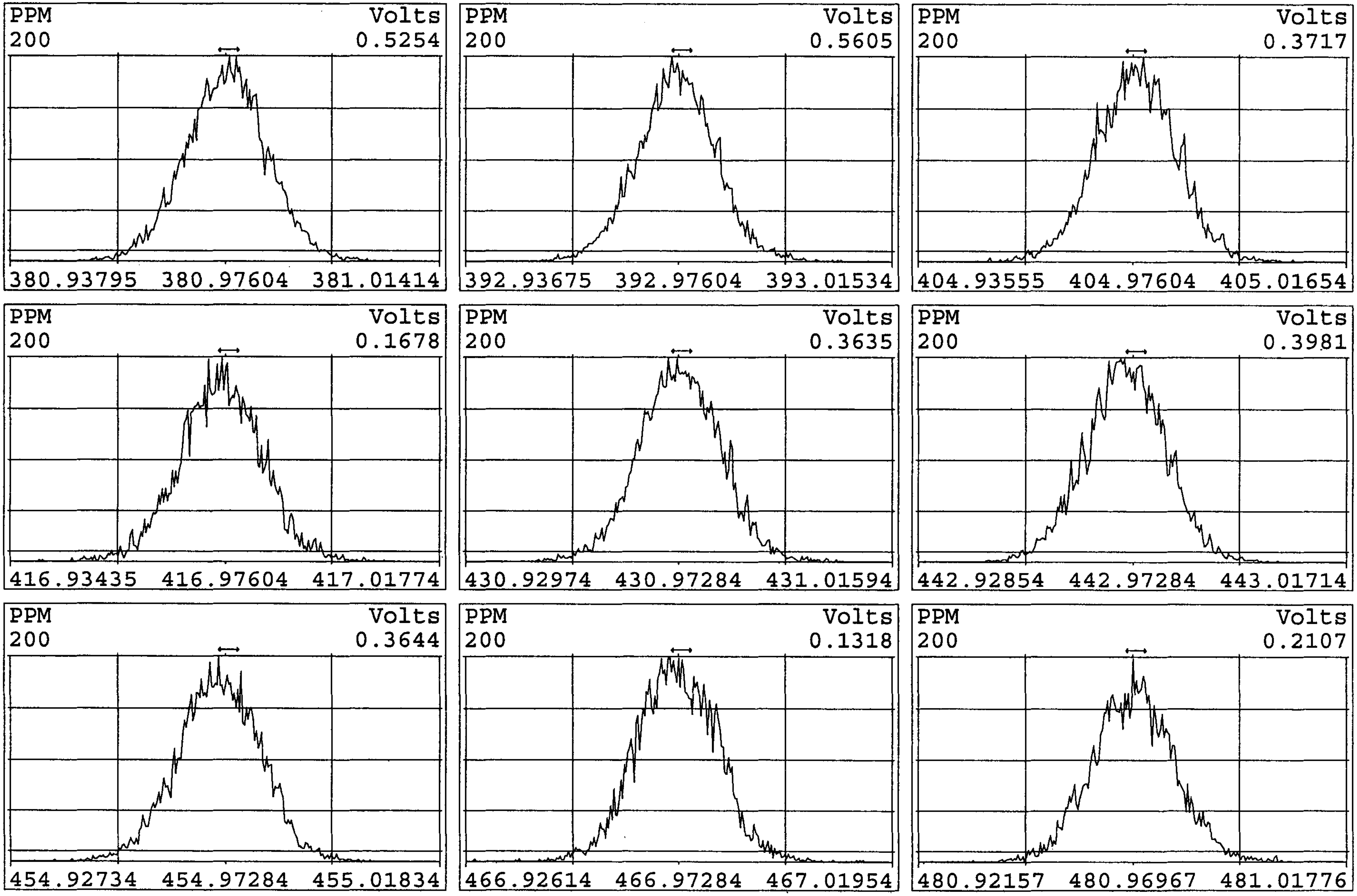
Experiment:DIOXINRES Function:3 Reference:PFK



Peak Locate Examination:14-OCT-2010:10:03 File:14OC104D5
Experiment:DIOXINRES Function:4 Reference:PFK



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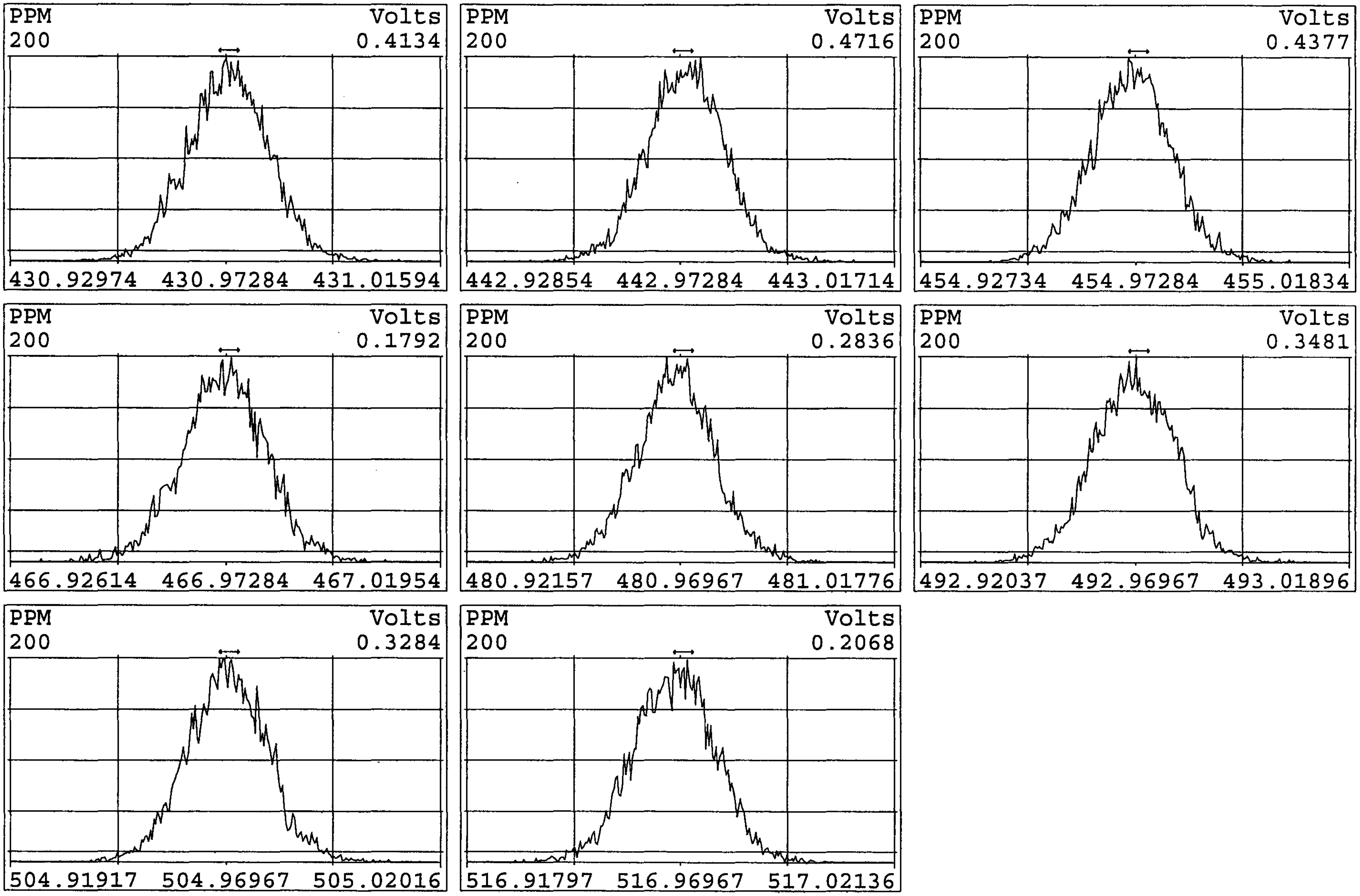
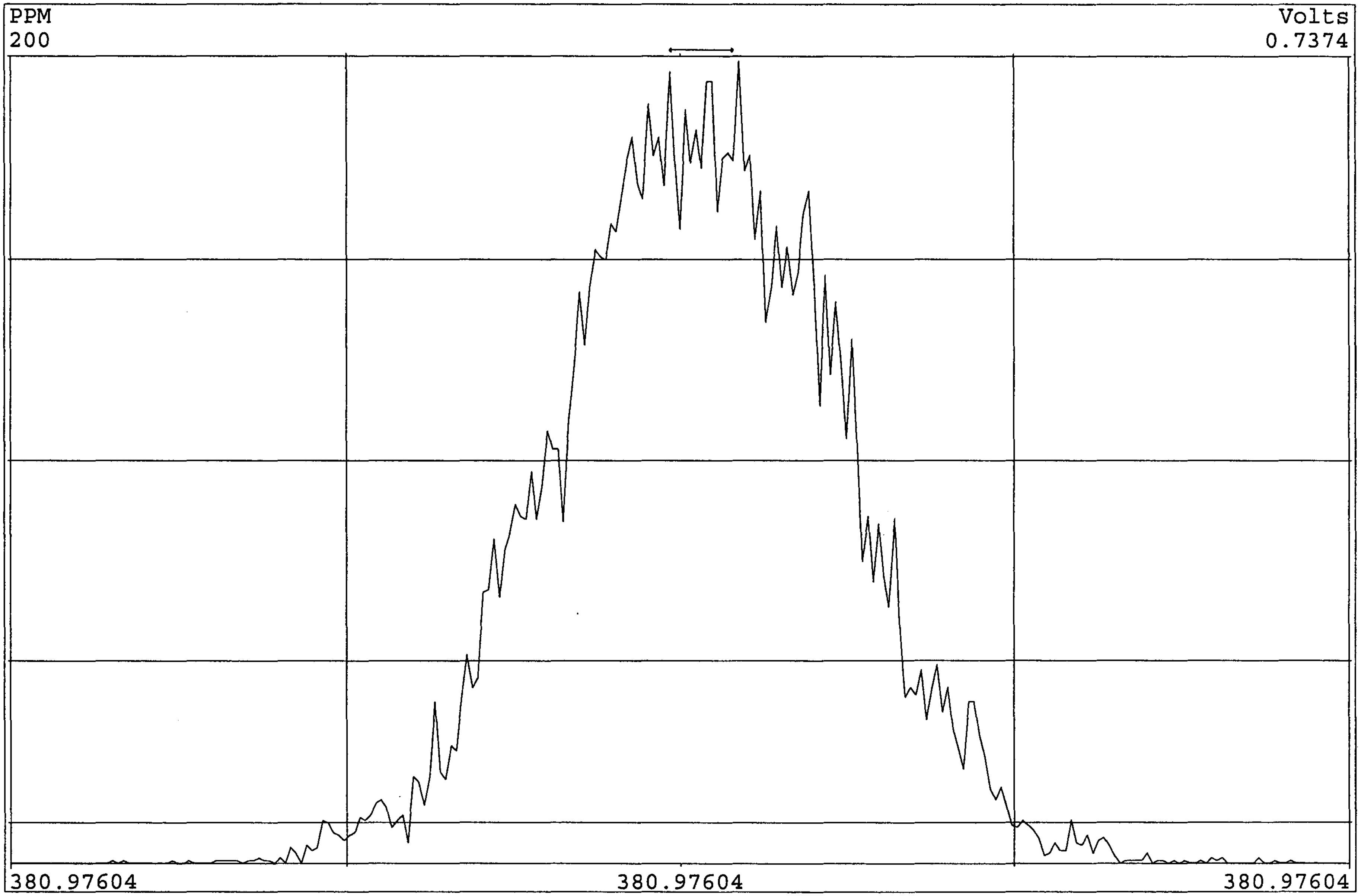
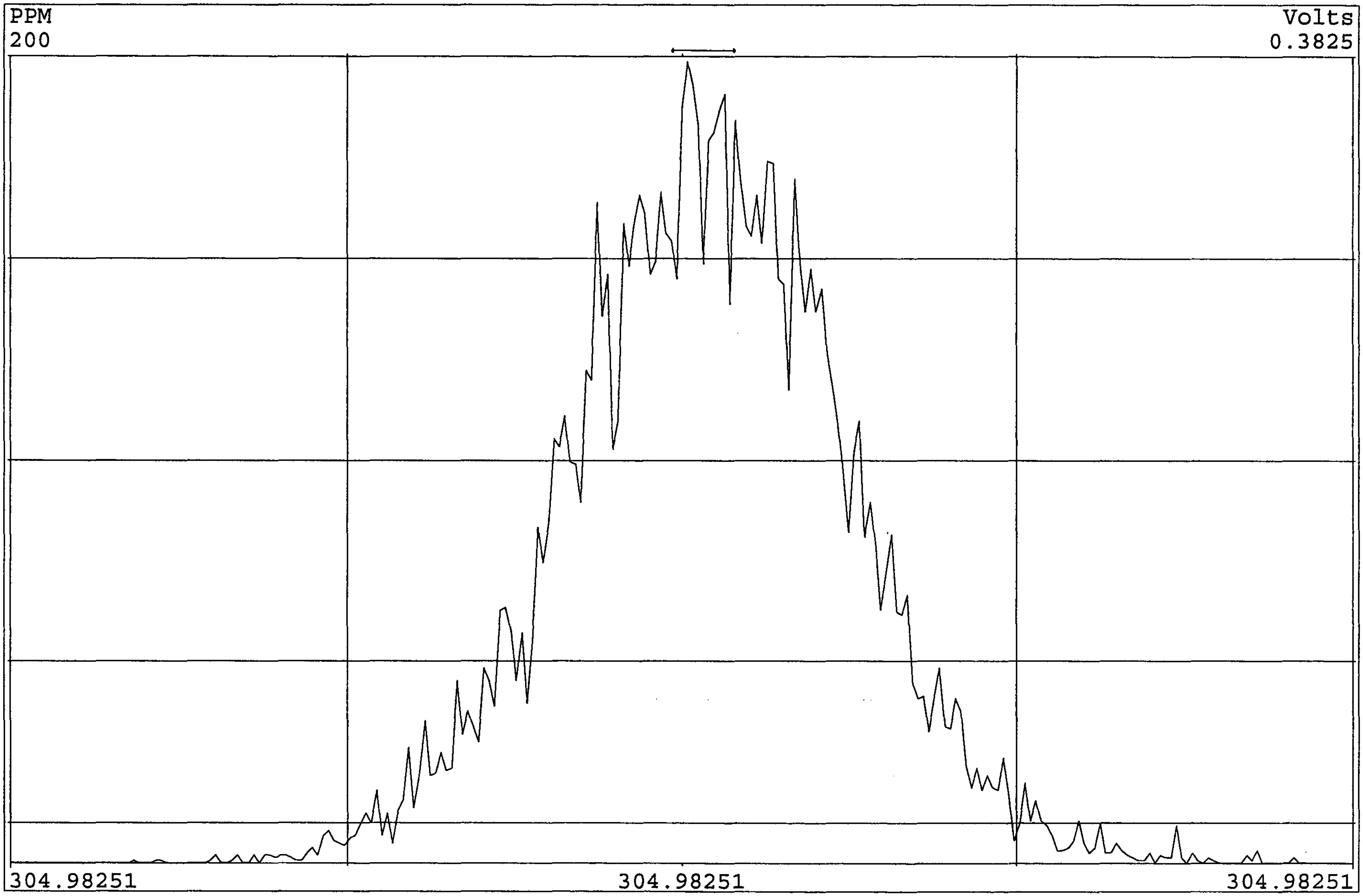
Experiment:DIOXINRES Function:5 Reference:PFK



SIRLM Examination:14-OCT-2010:20:25 File:14OC104D5
Experiment:DIOXINRES Function:6



SIRLM Examination:14-OCT-2010:20:26 File:14OC104D5
Experiment:DIOXINRES Function:7



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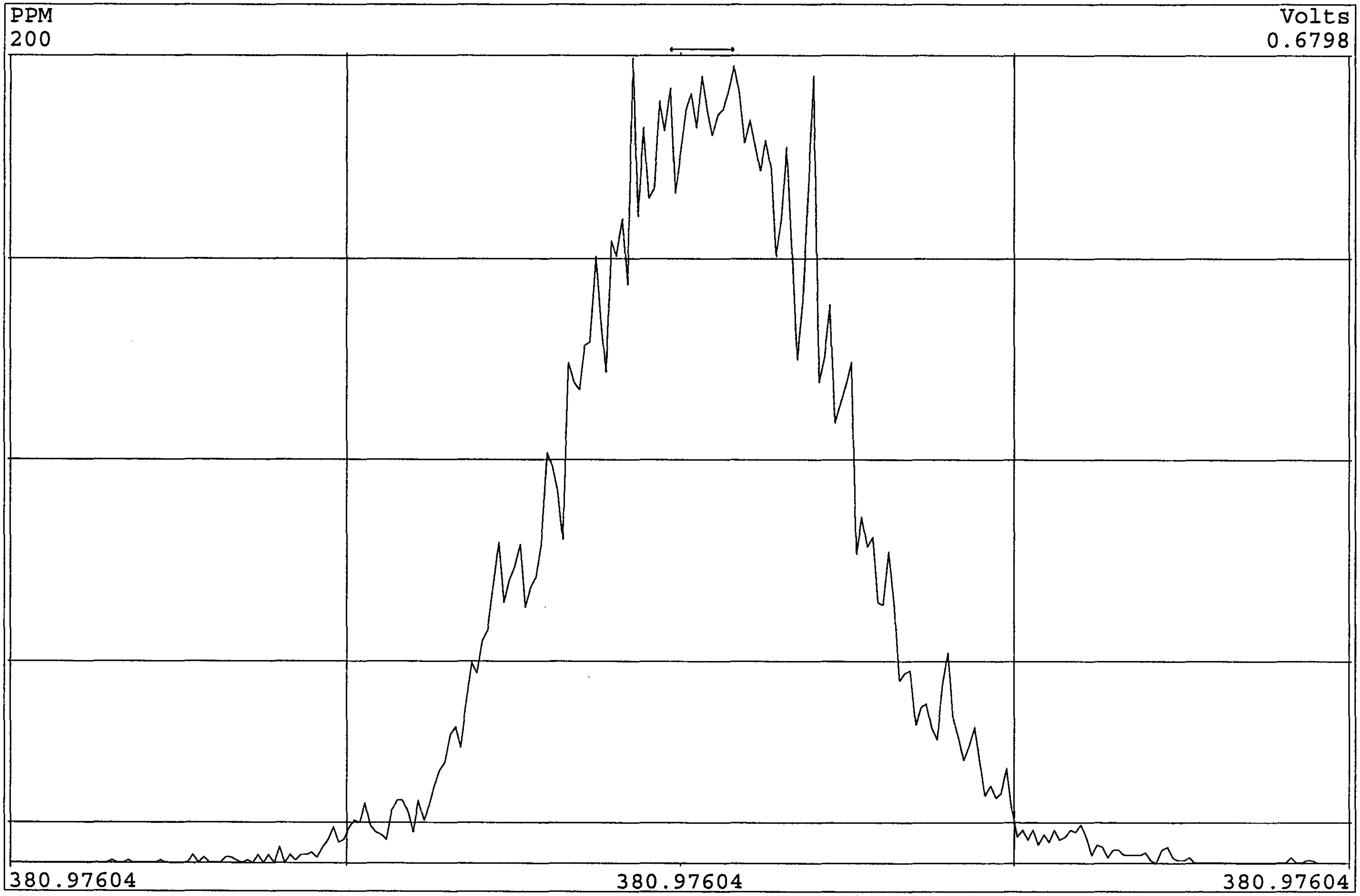
Experiment:DIOXINRES Function:6



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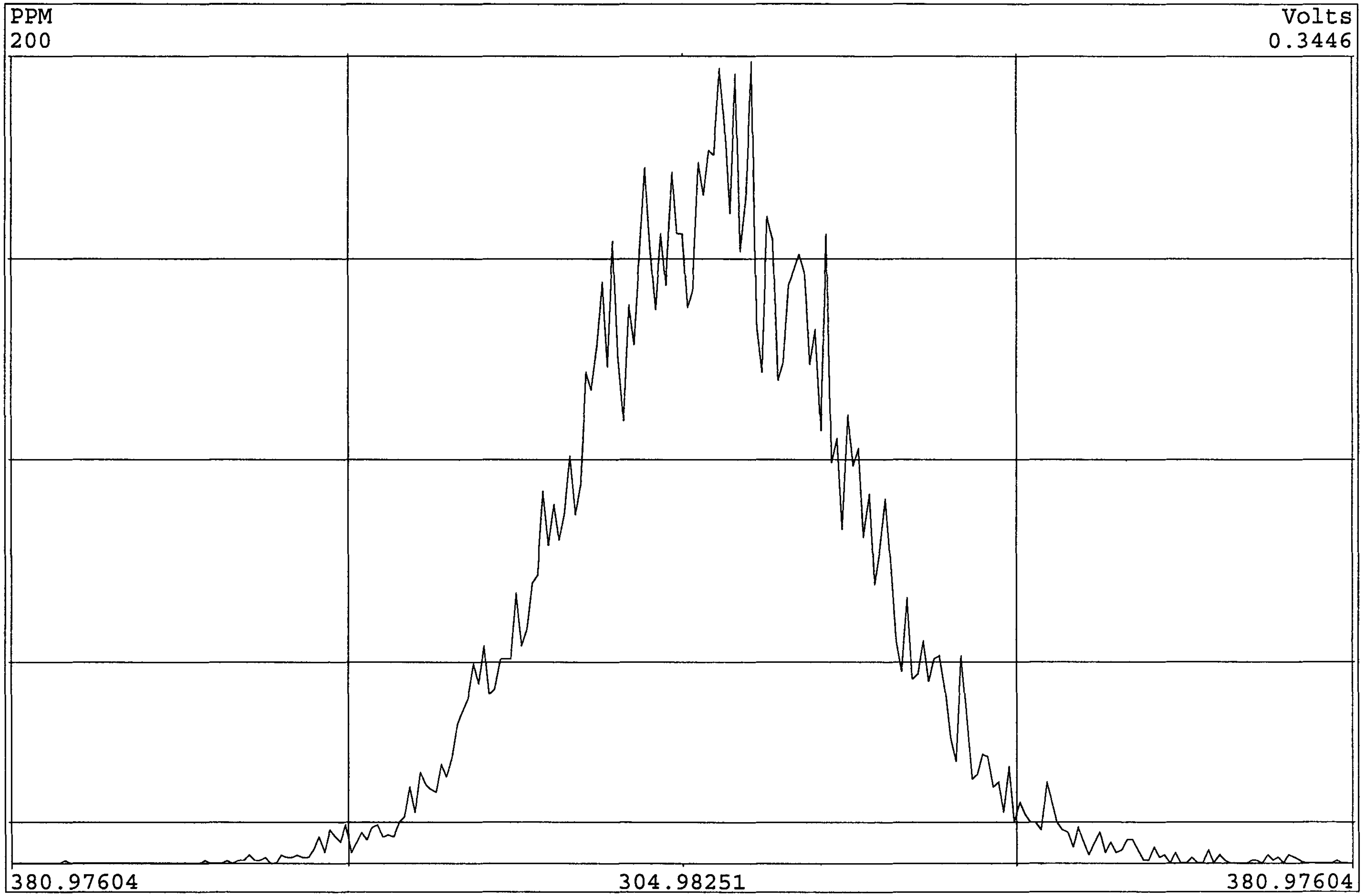
Experiment:DIOXINRES Function:7



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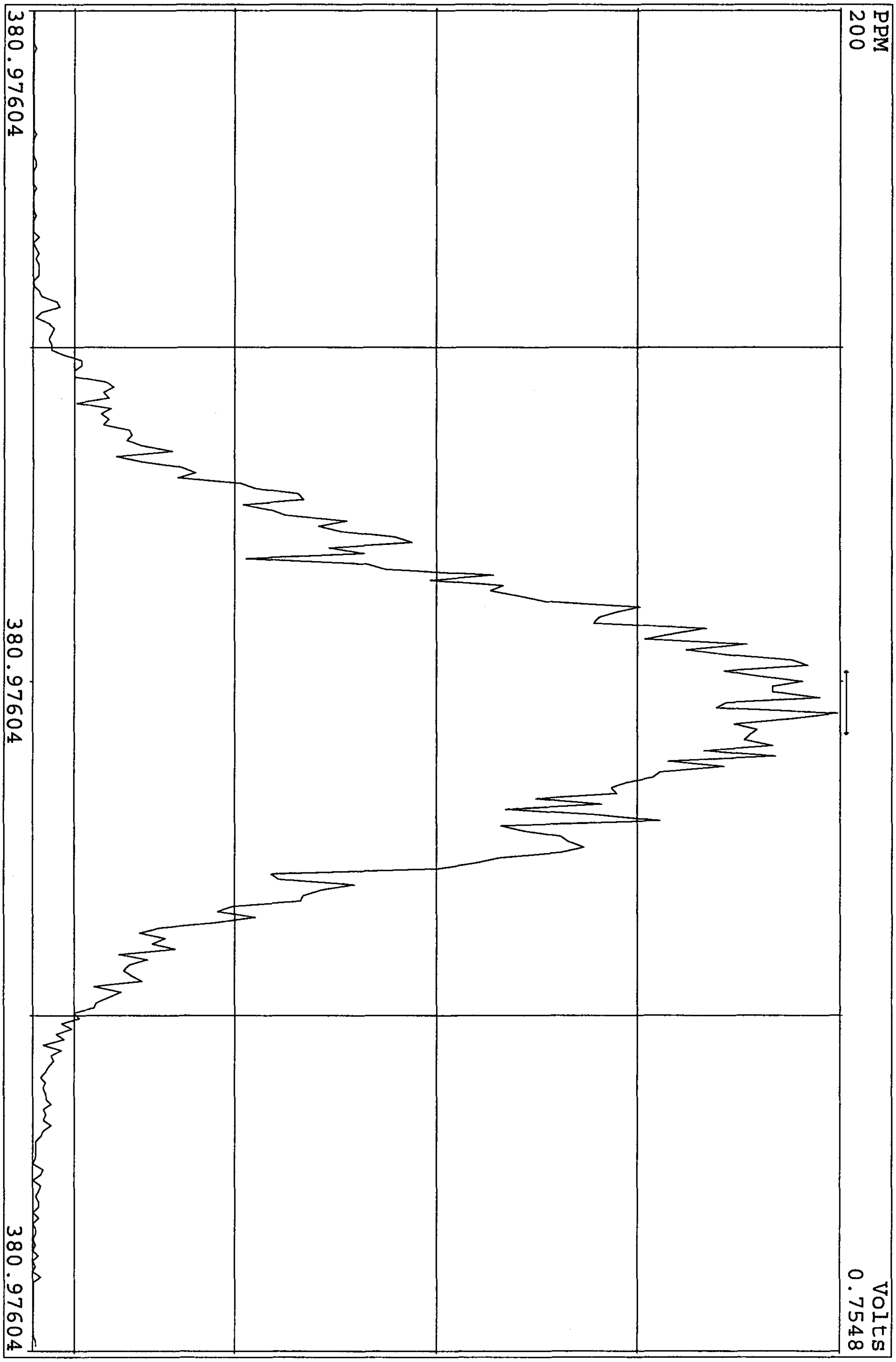
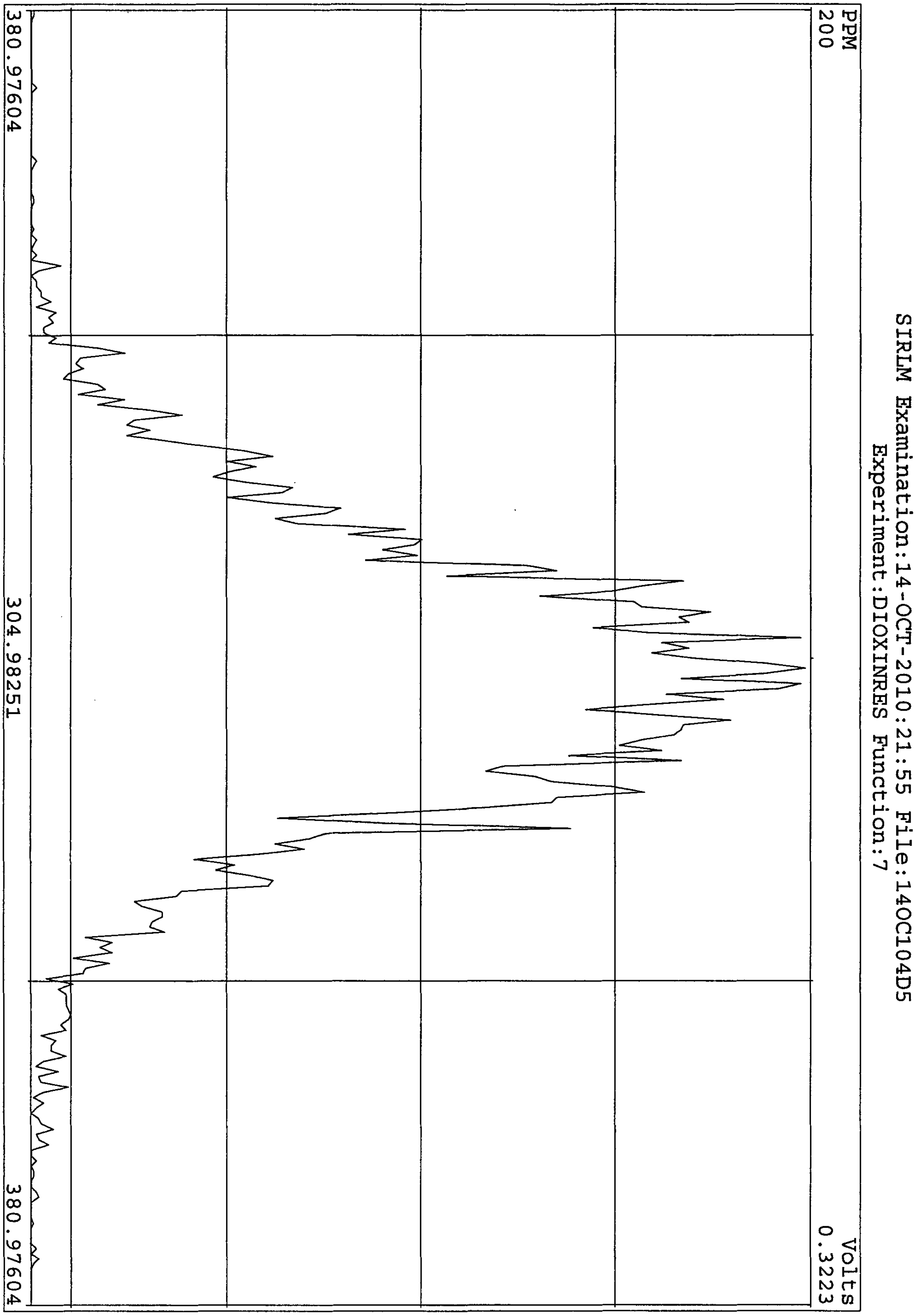
Experiment:DIOXINRES Function:6

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Experiment:DIOXINRES Function:7
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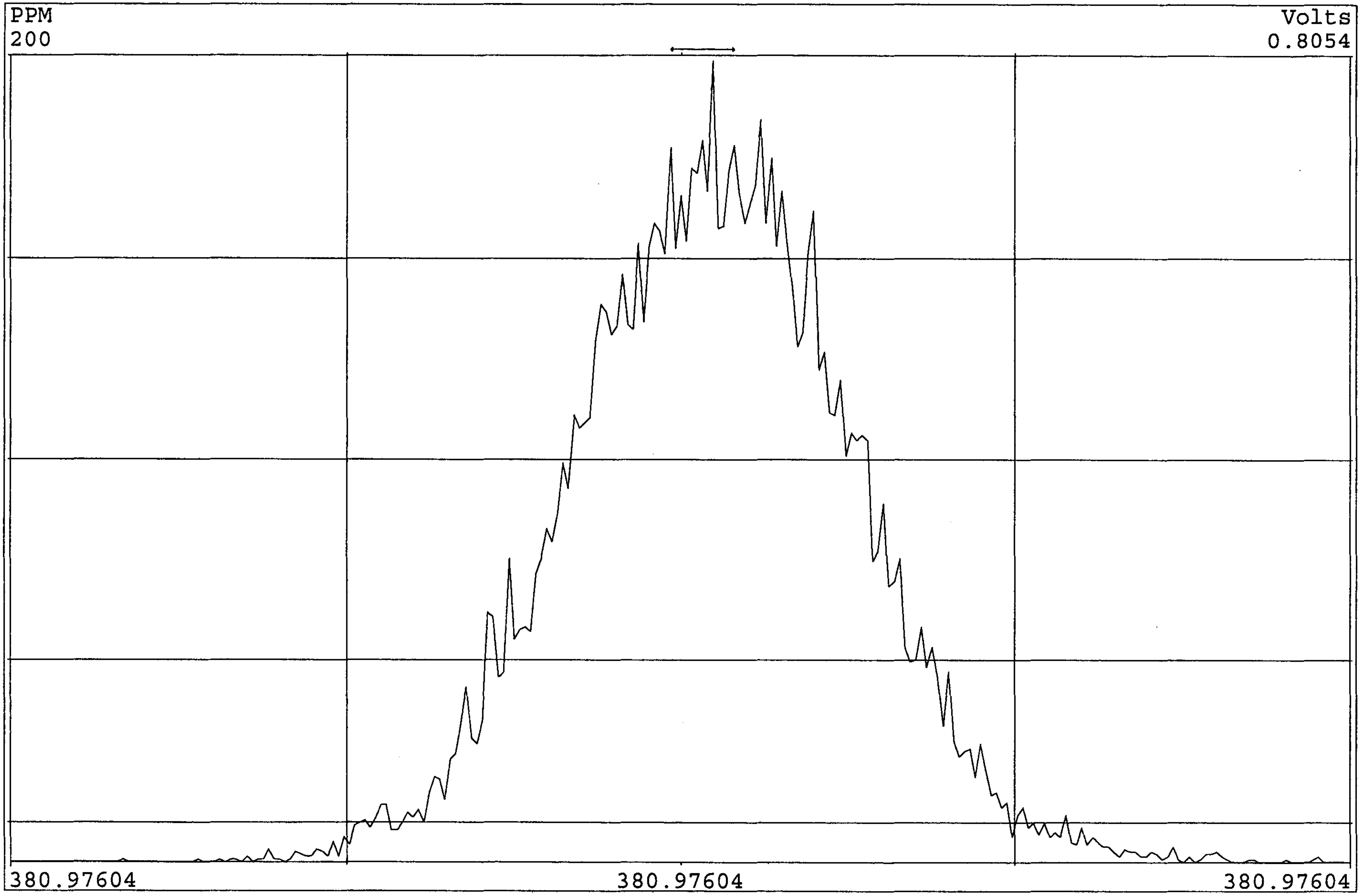
SIRLM Examination:15-OCT-2010:09:03 File:14OC104D5
Experiment:DIOXINRES Function:6



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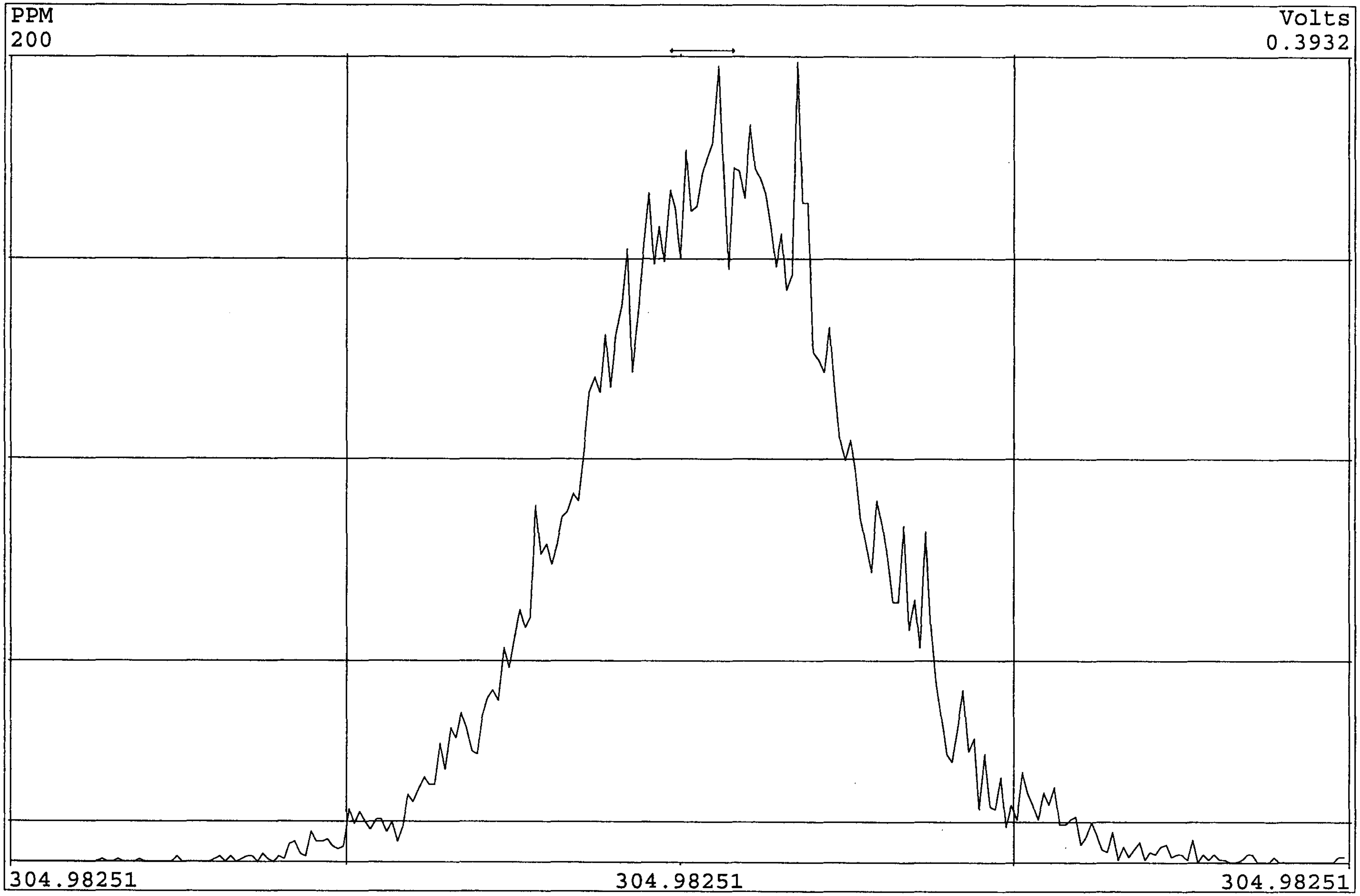
Experiment:DIOXINRES Function:7



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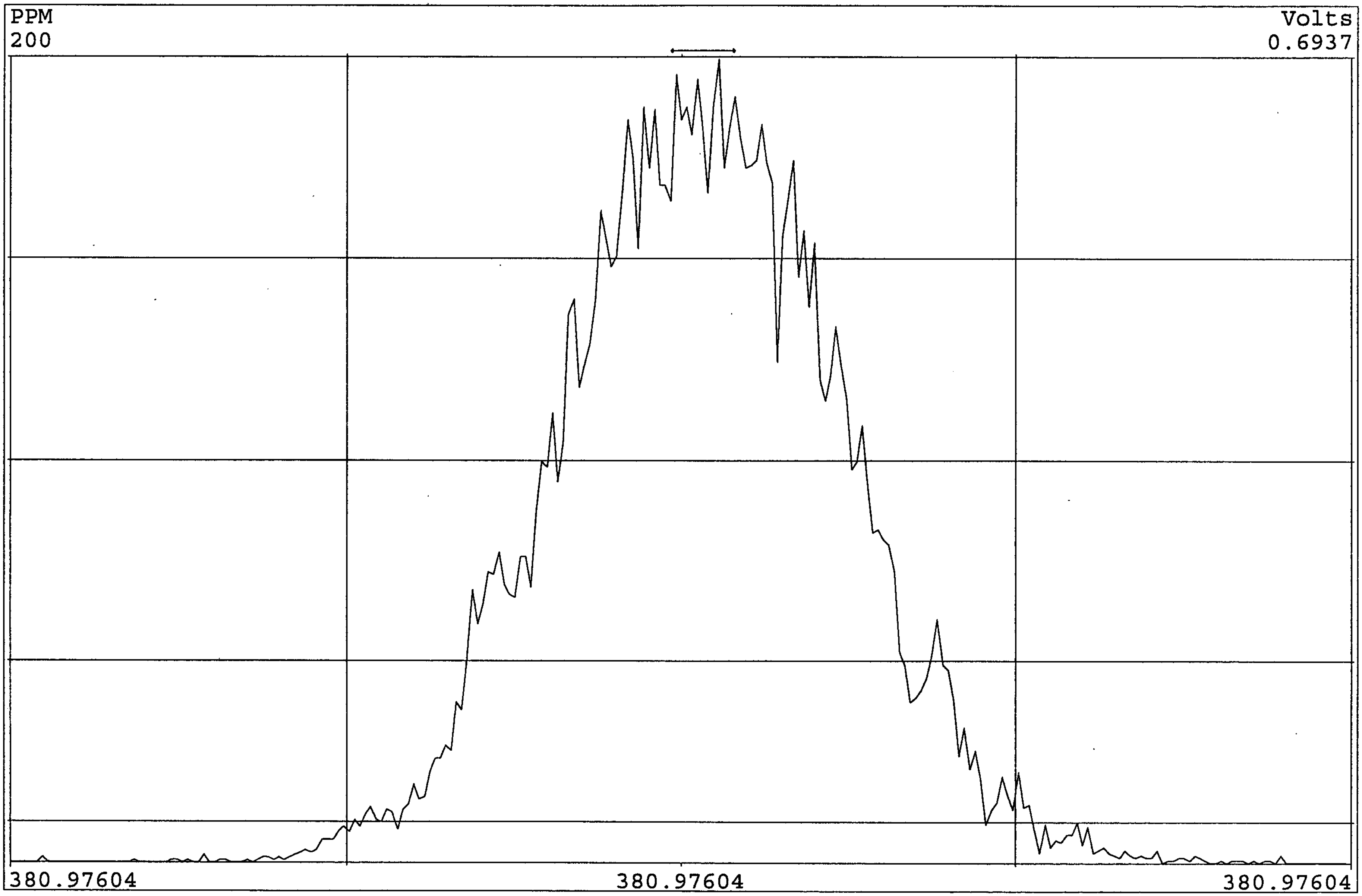

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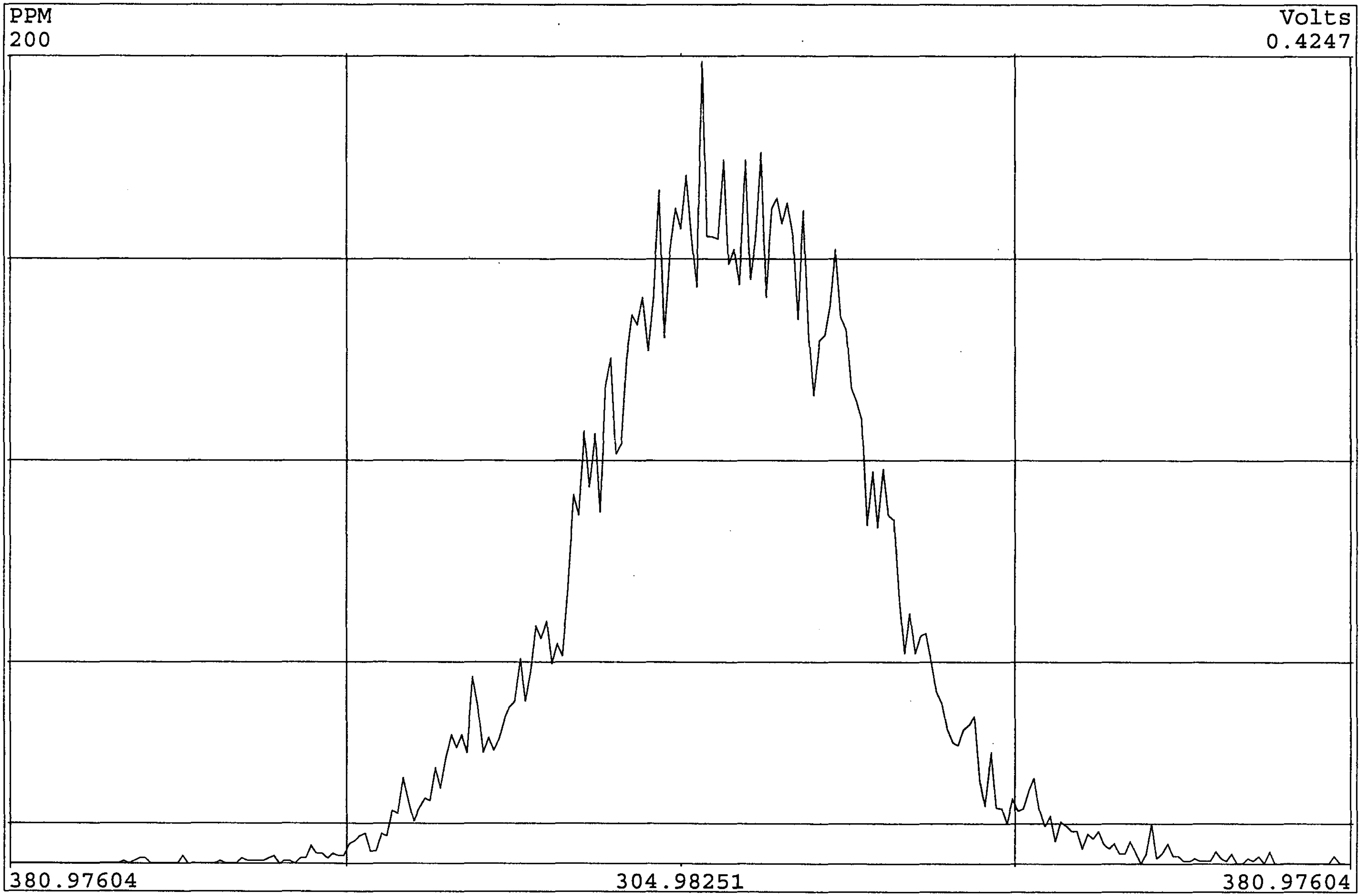
Experiment:DIOXINRES Function:7



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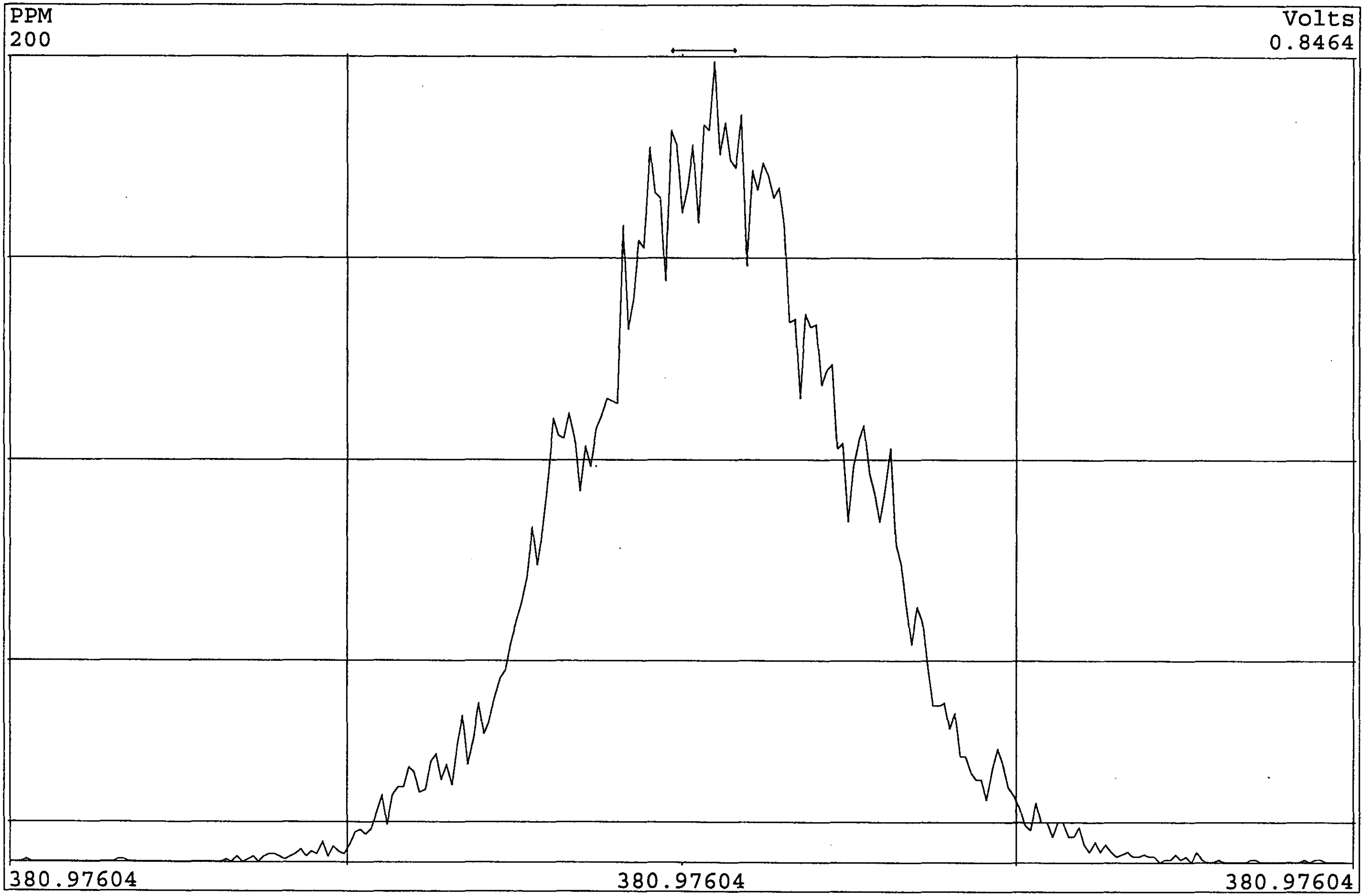
Experiment:DIOXINRES Function:6



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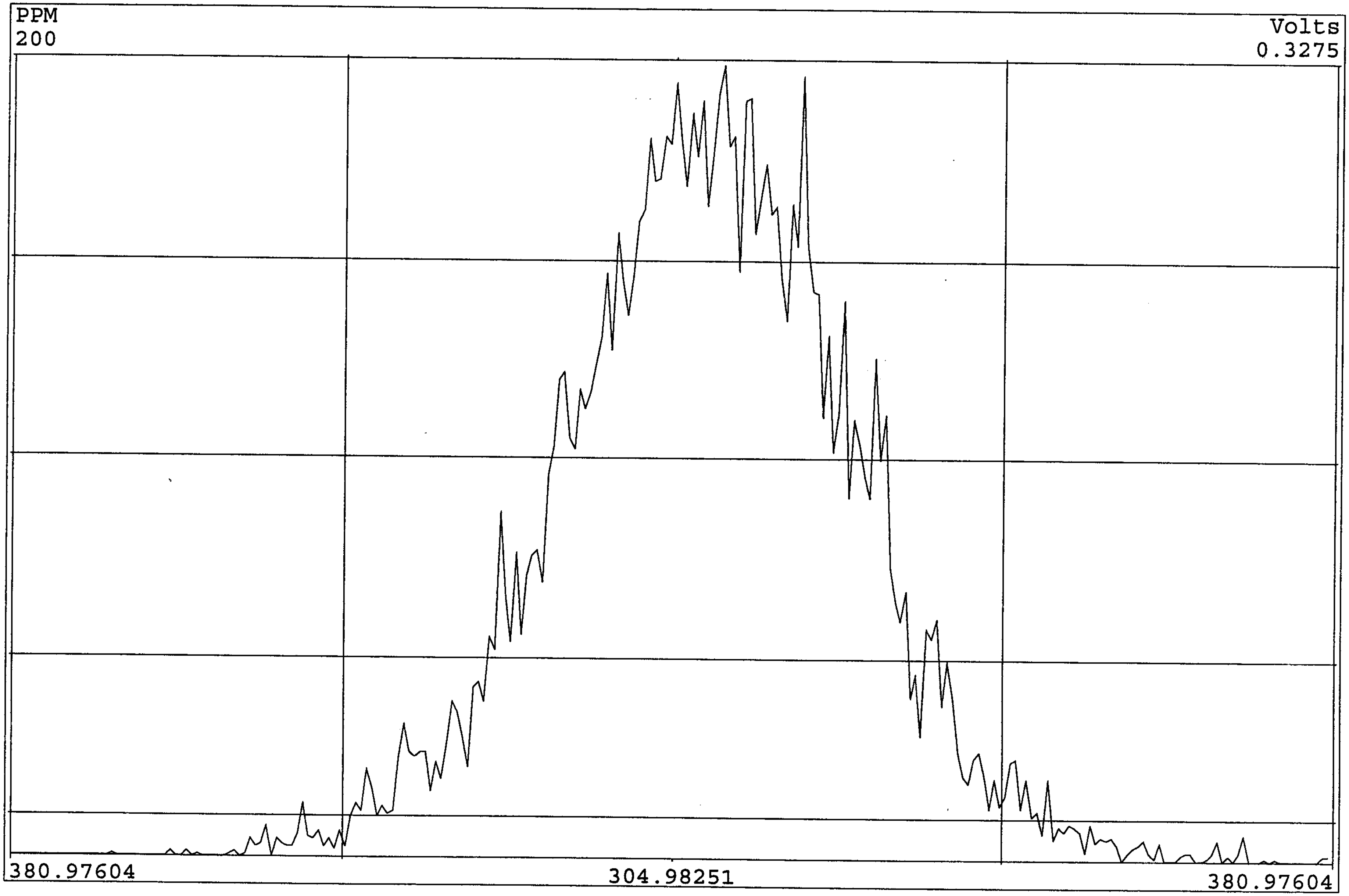

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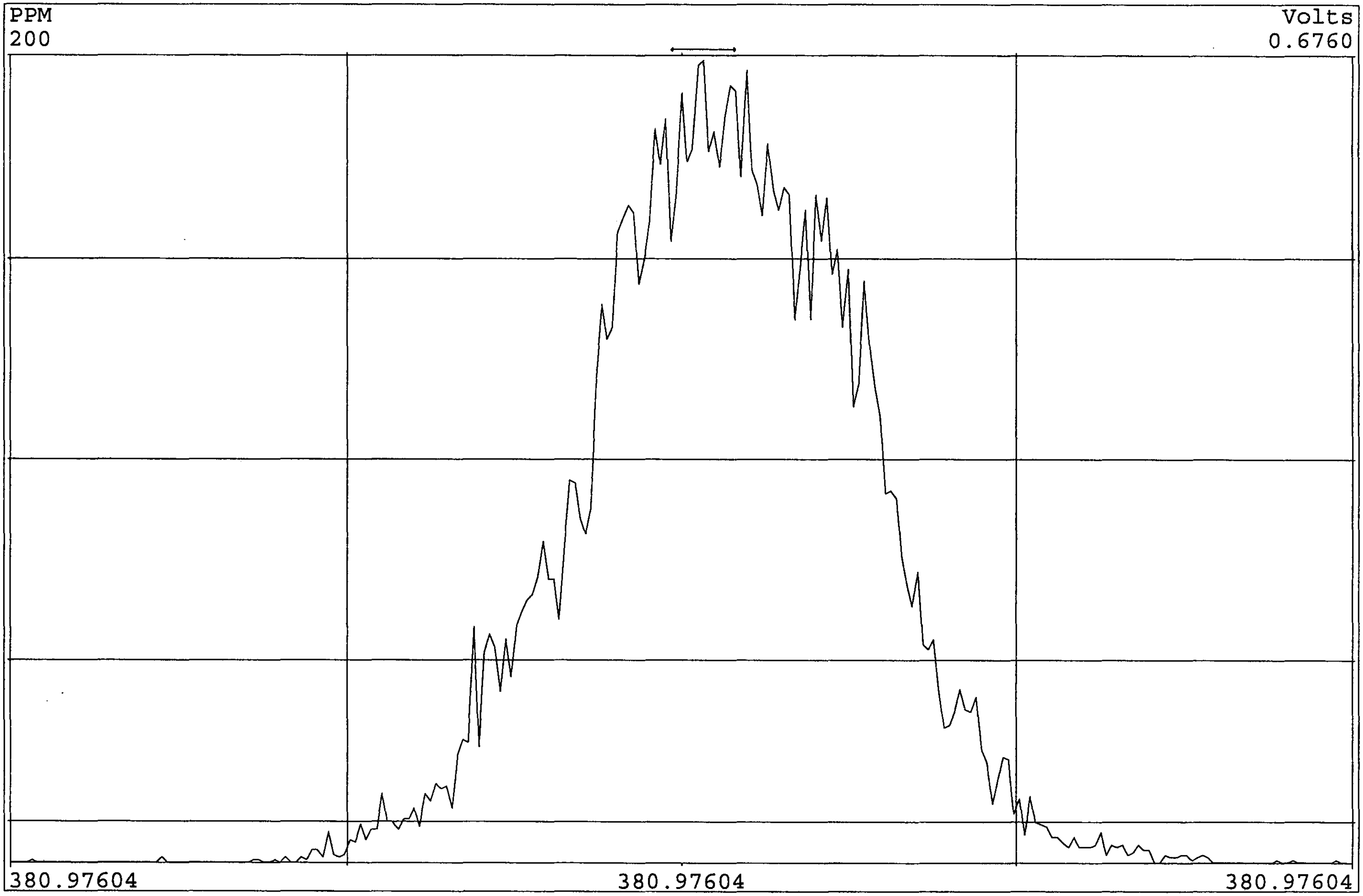
Experiment:DIOXINRES Function:6



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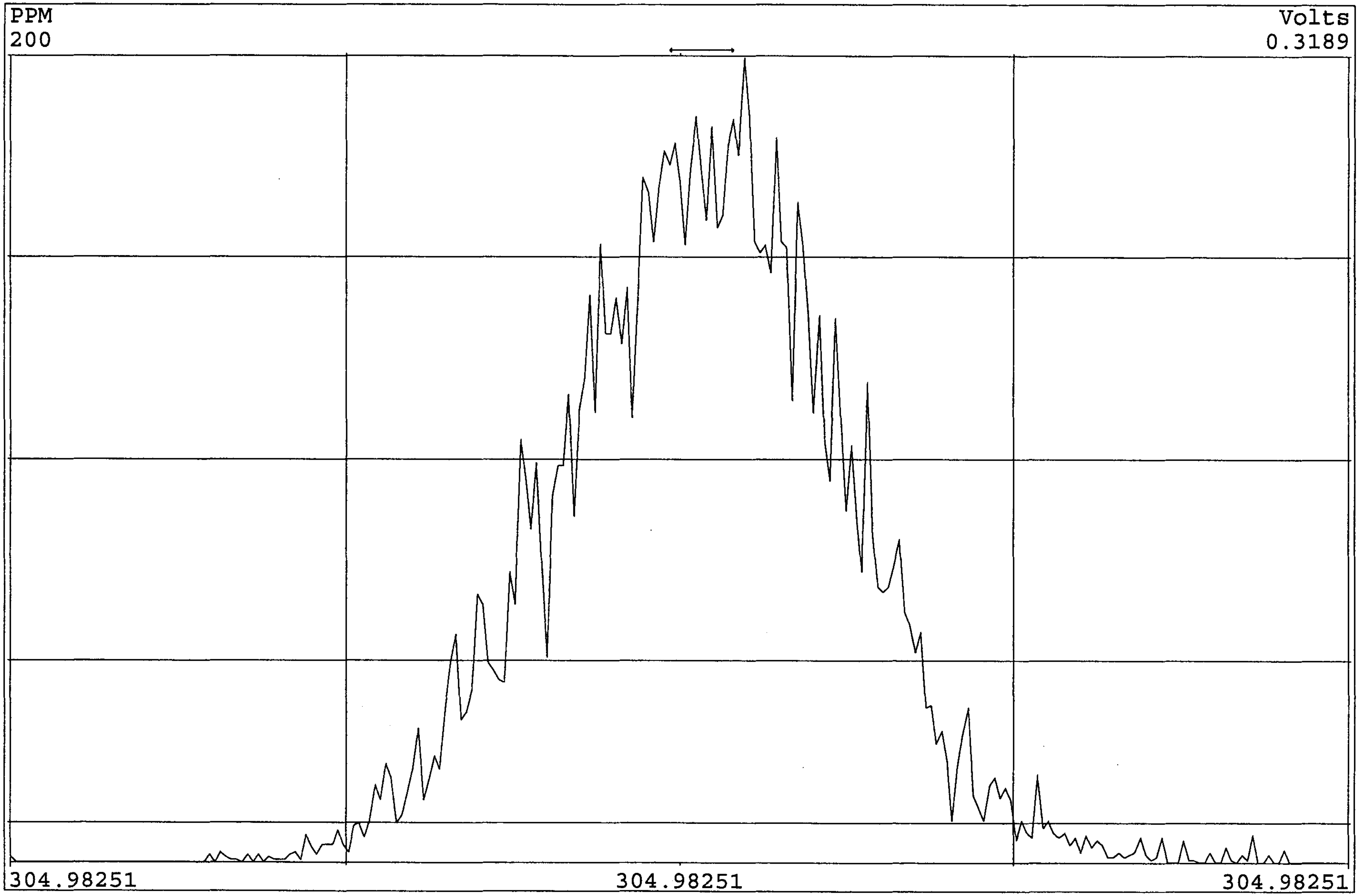

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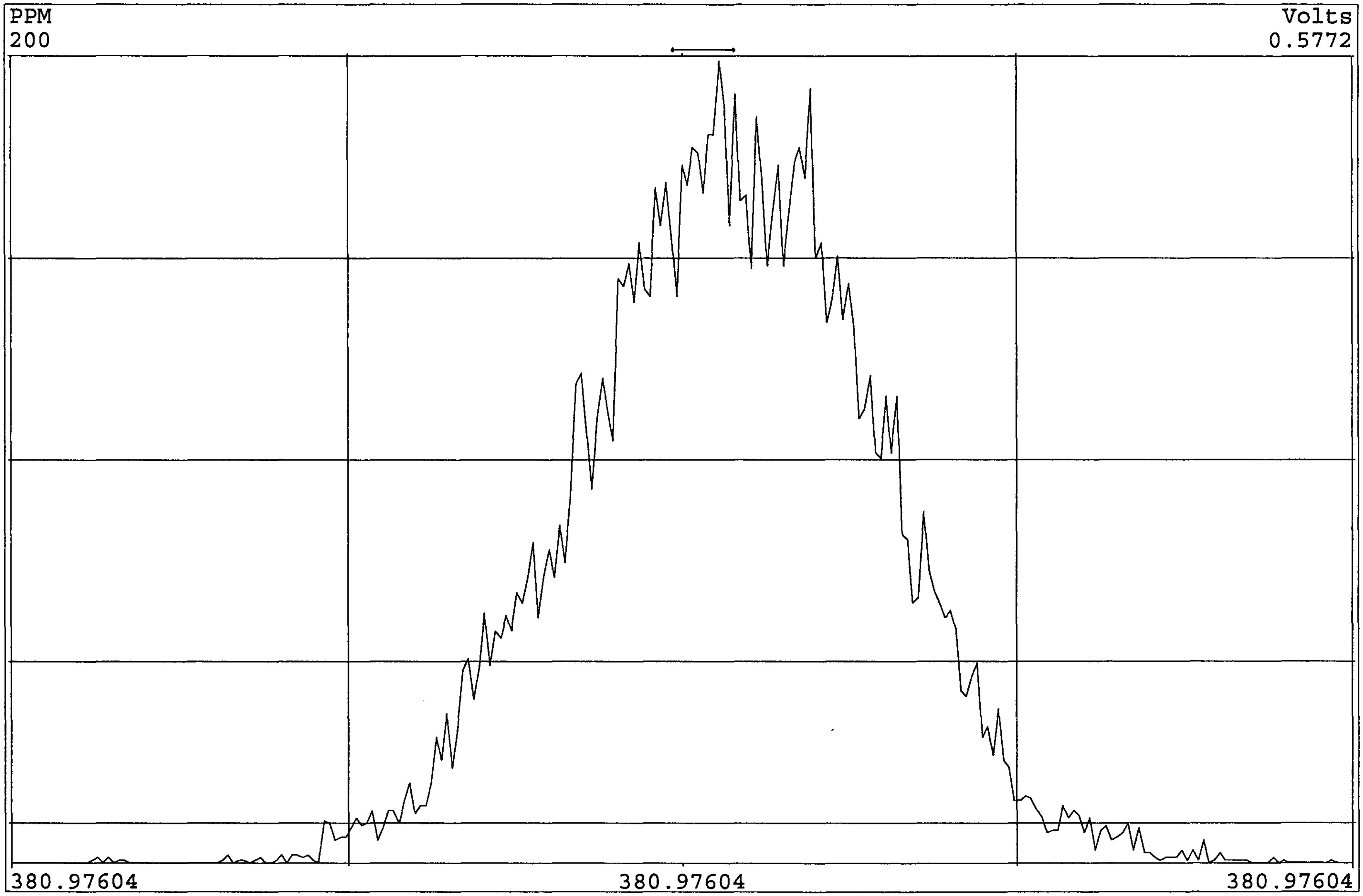
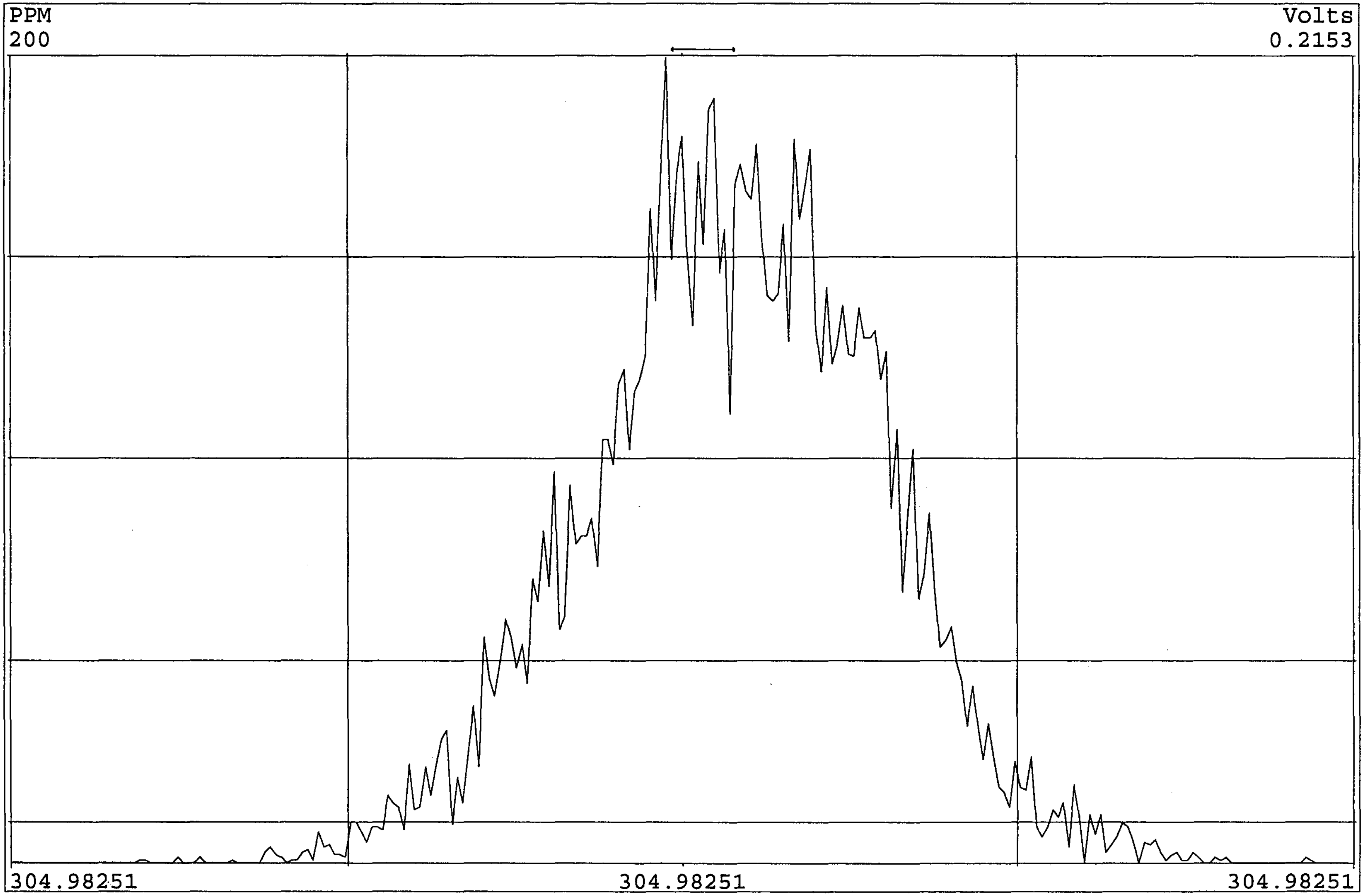


SIRLM Examination:16-OCT-2010:18:02 File:14OC104D5
Experiment:DIOXINRES Function:7



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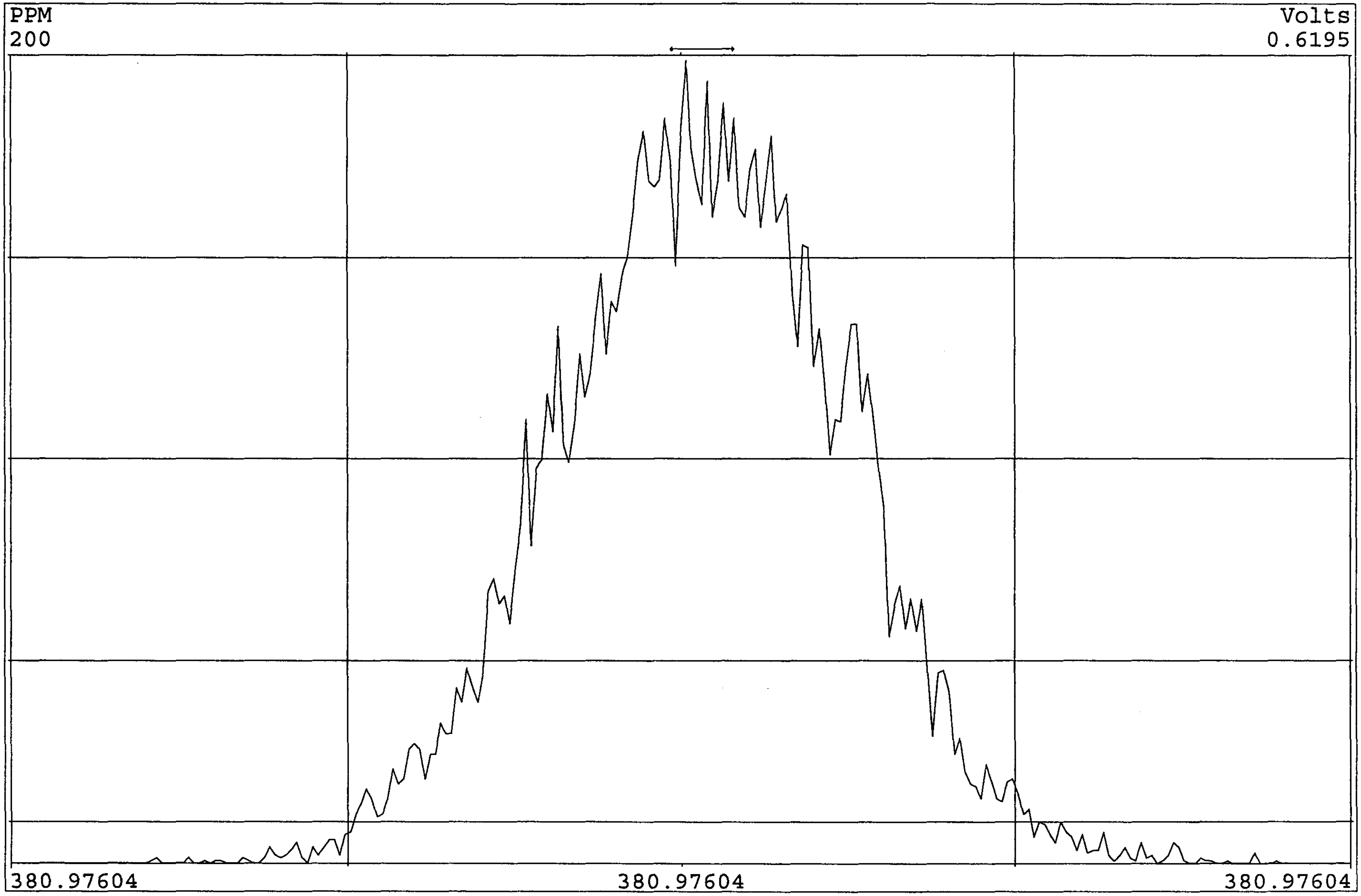
Experiment:DIOXINRES Function:6



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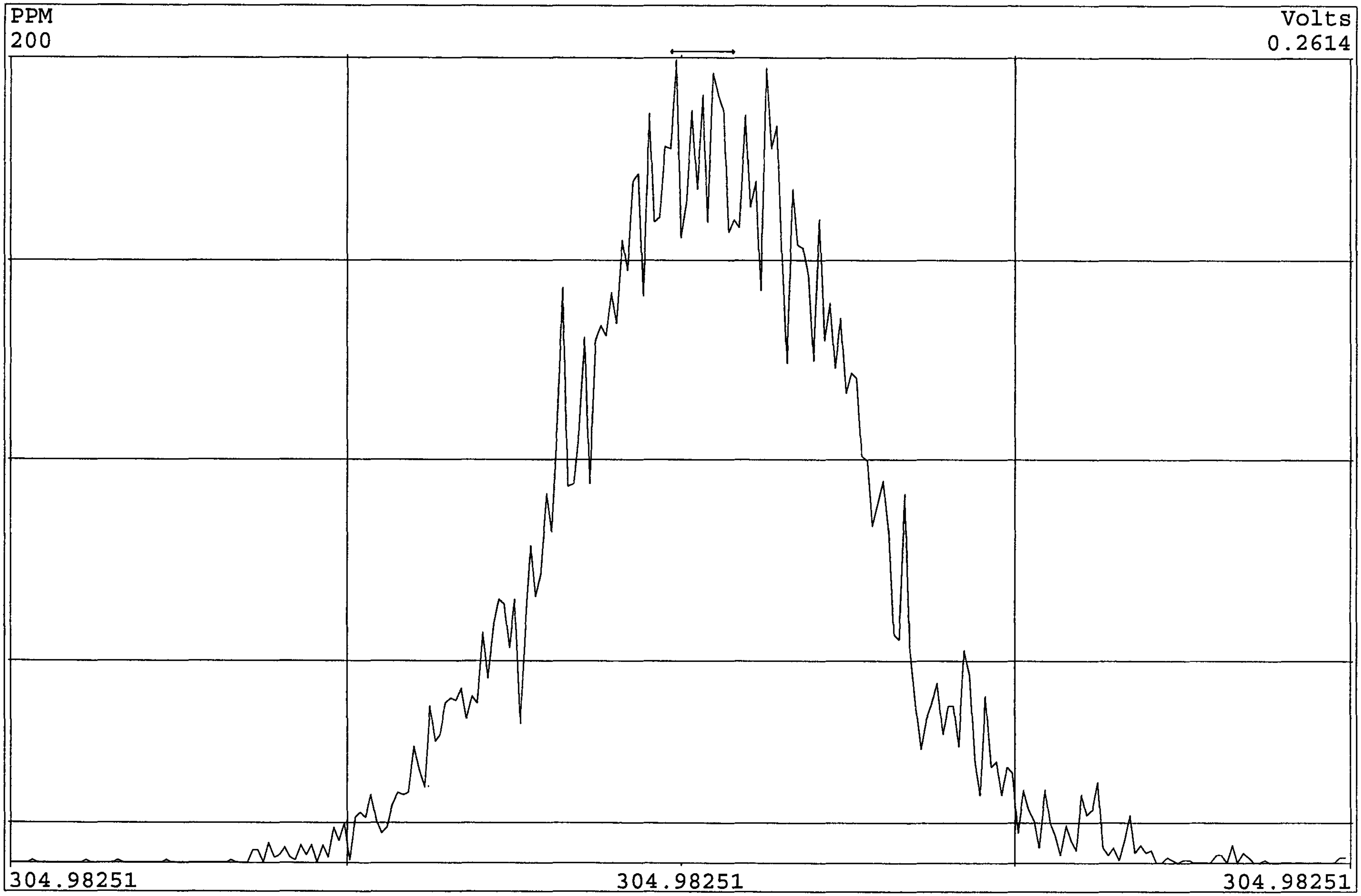
Experiment:DIOXINRES Function:7



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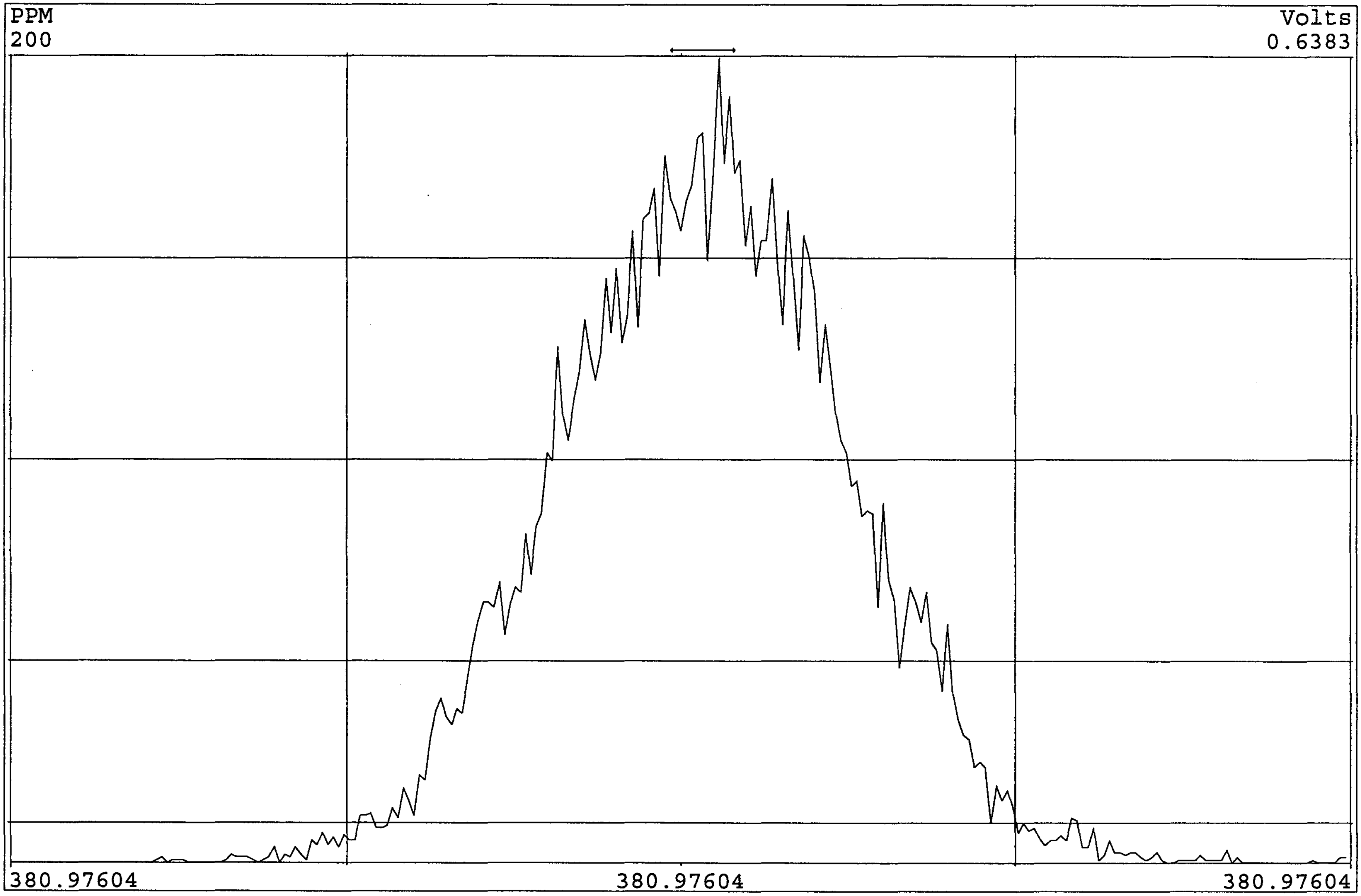

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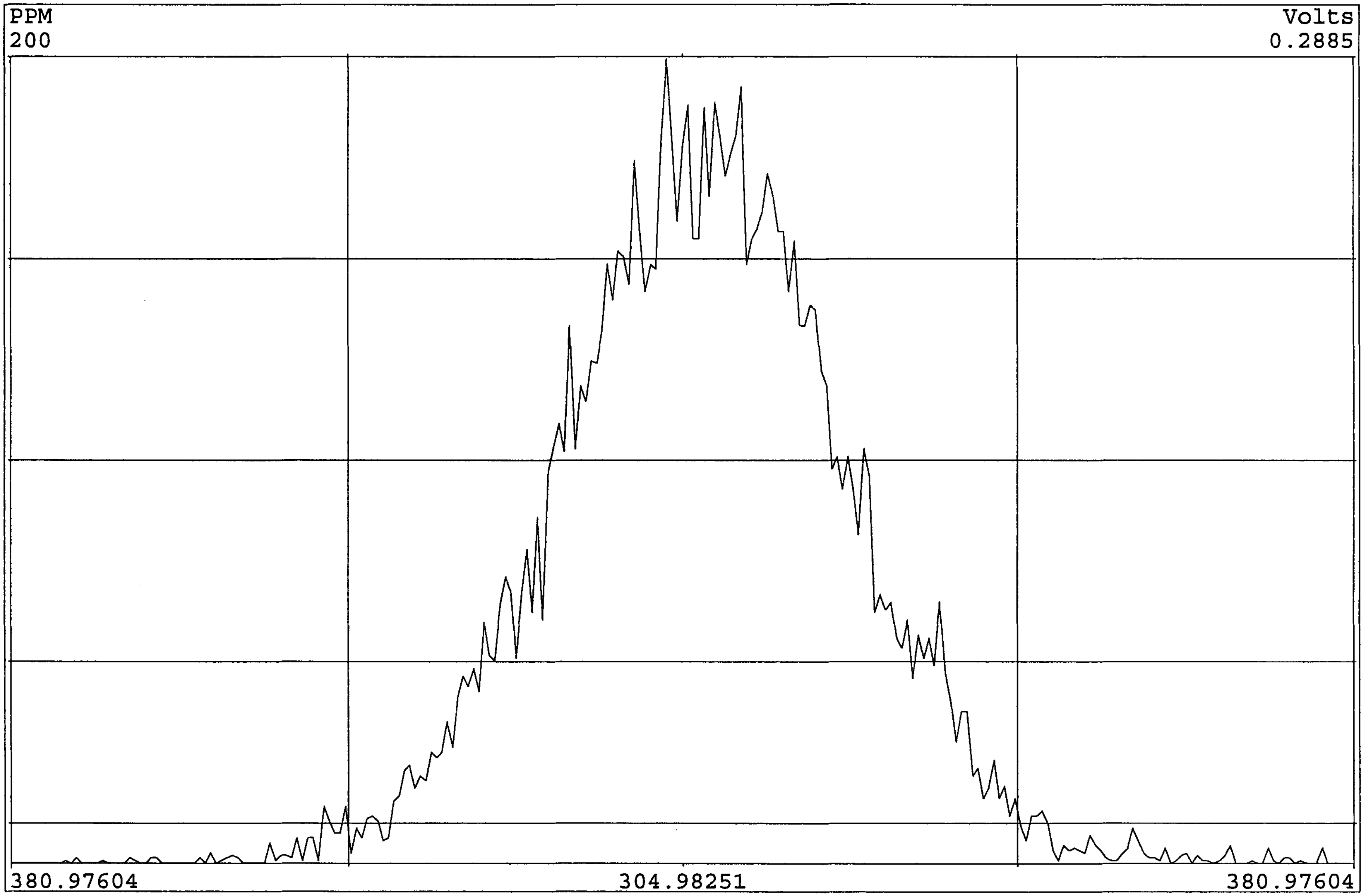
Experiment:DIOXINRES Function:7



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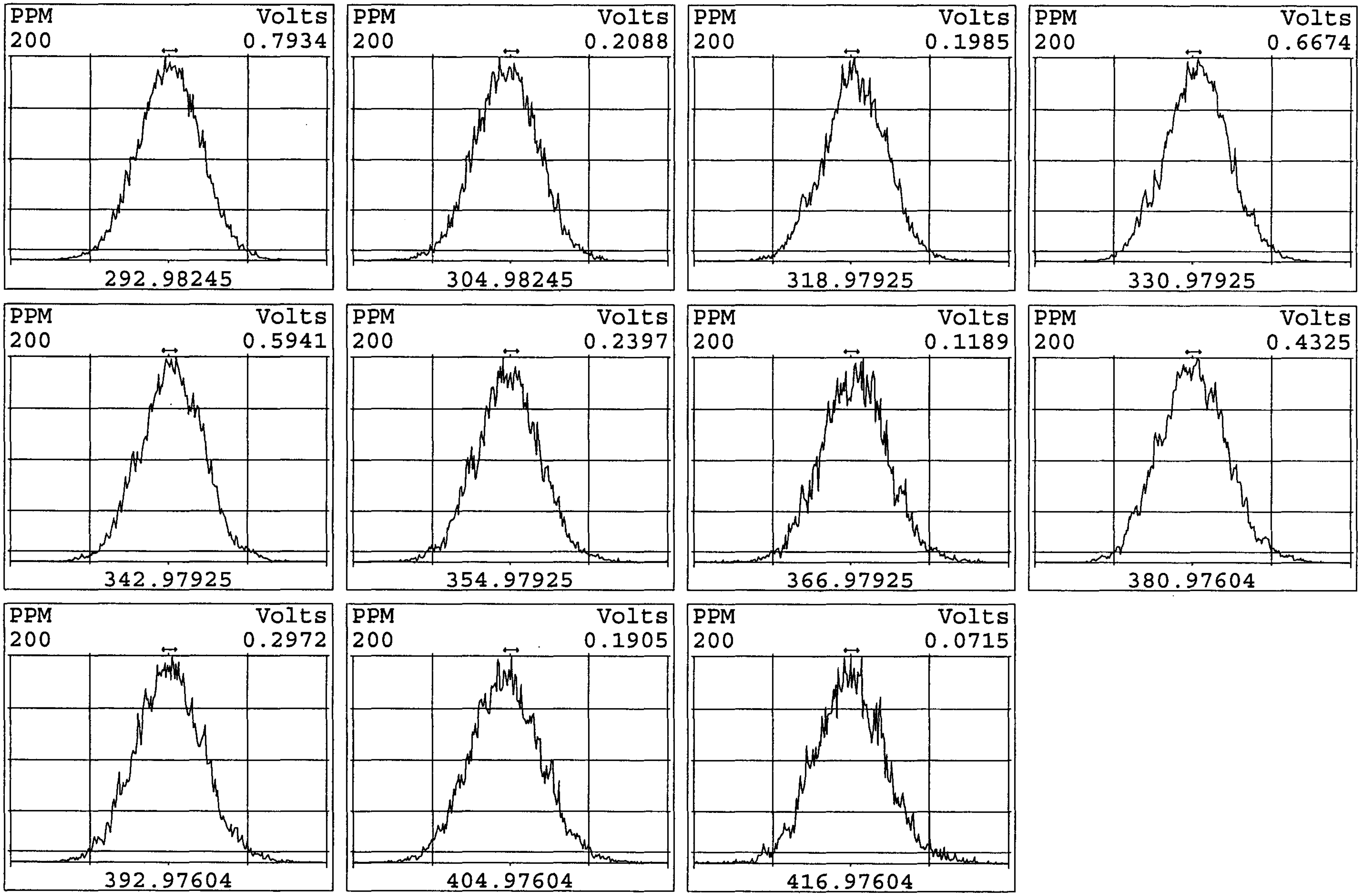
Experiment:DIOXINRES Function:1 Reference:PFK



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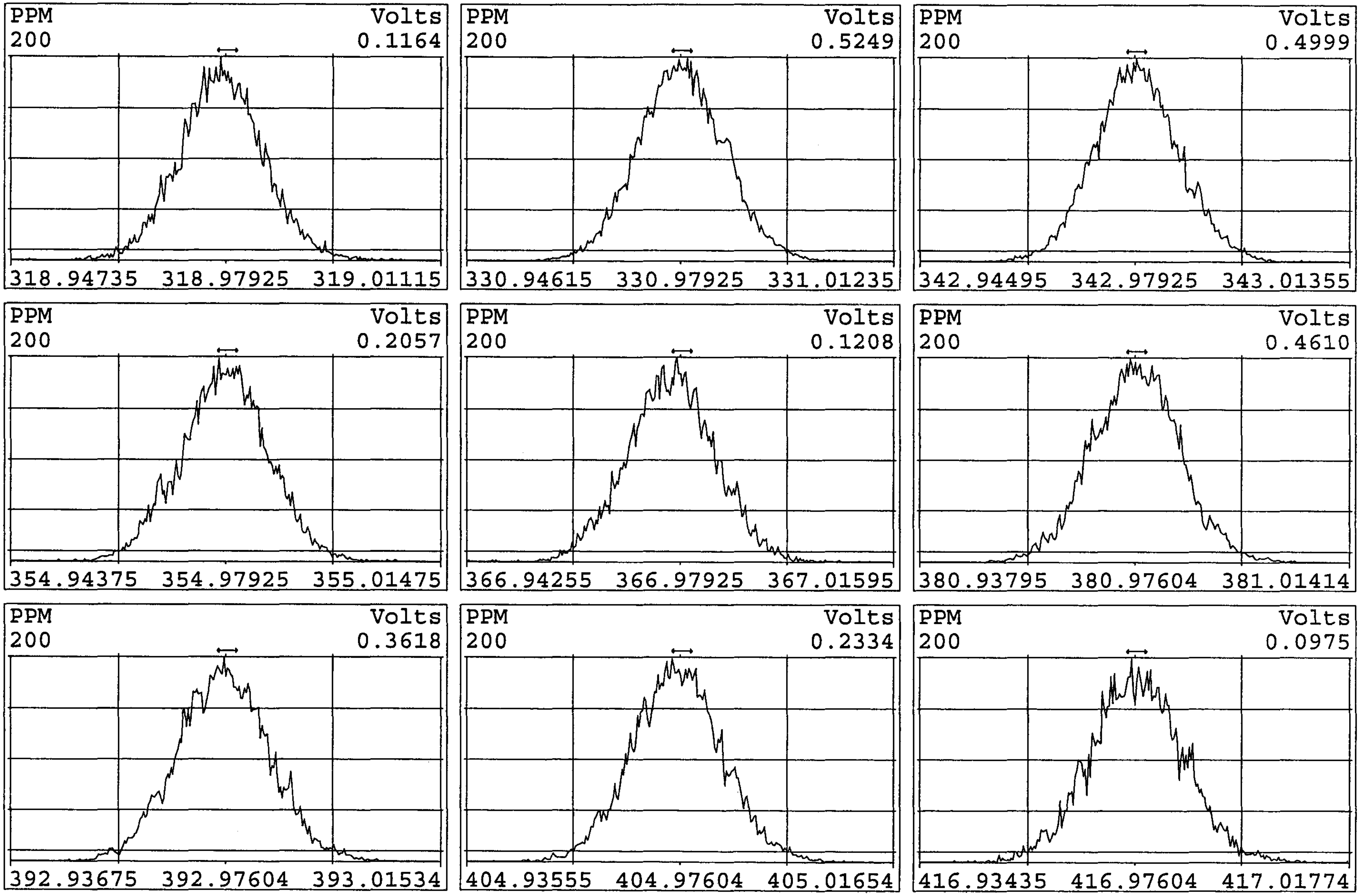
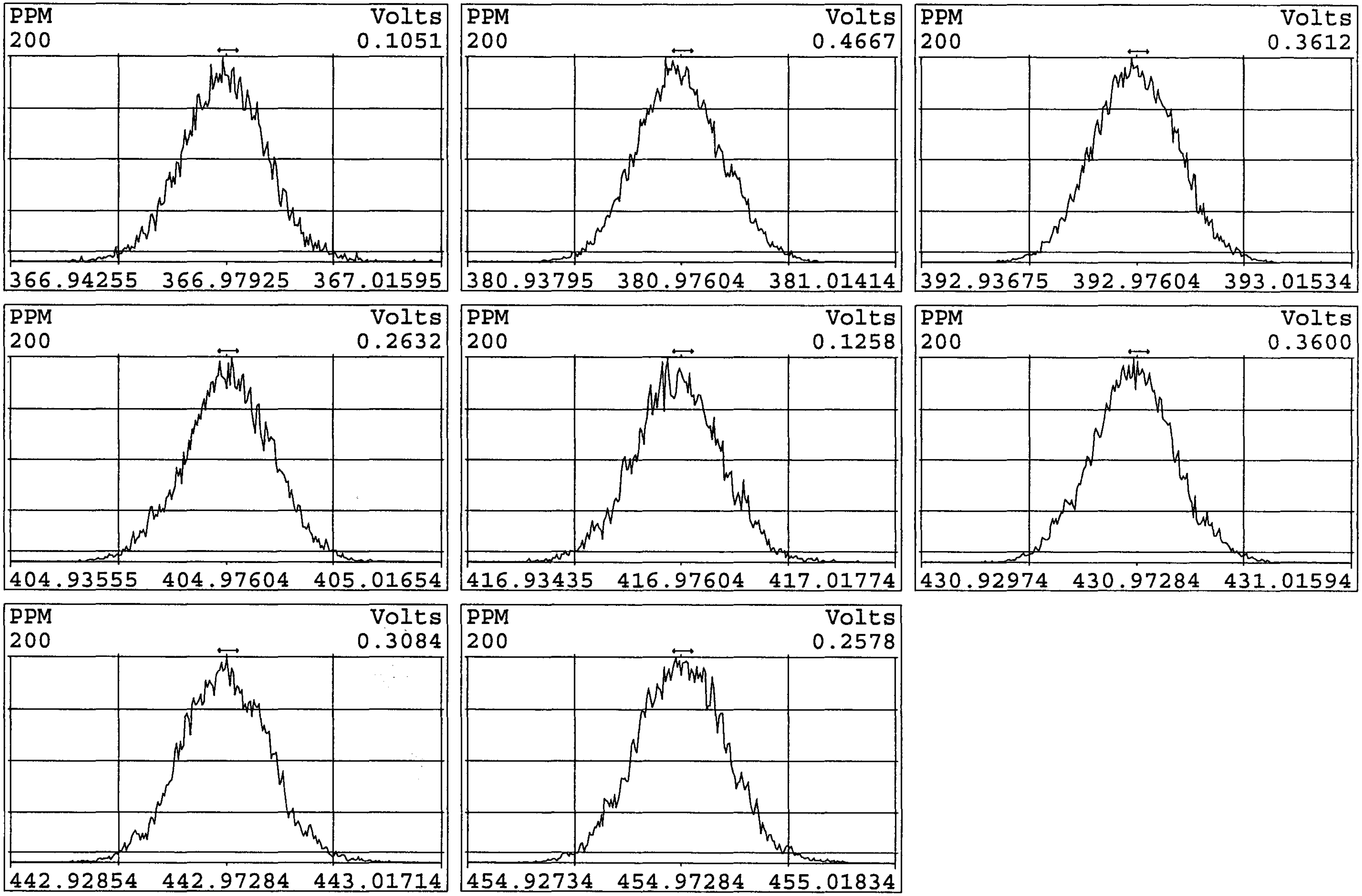
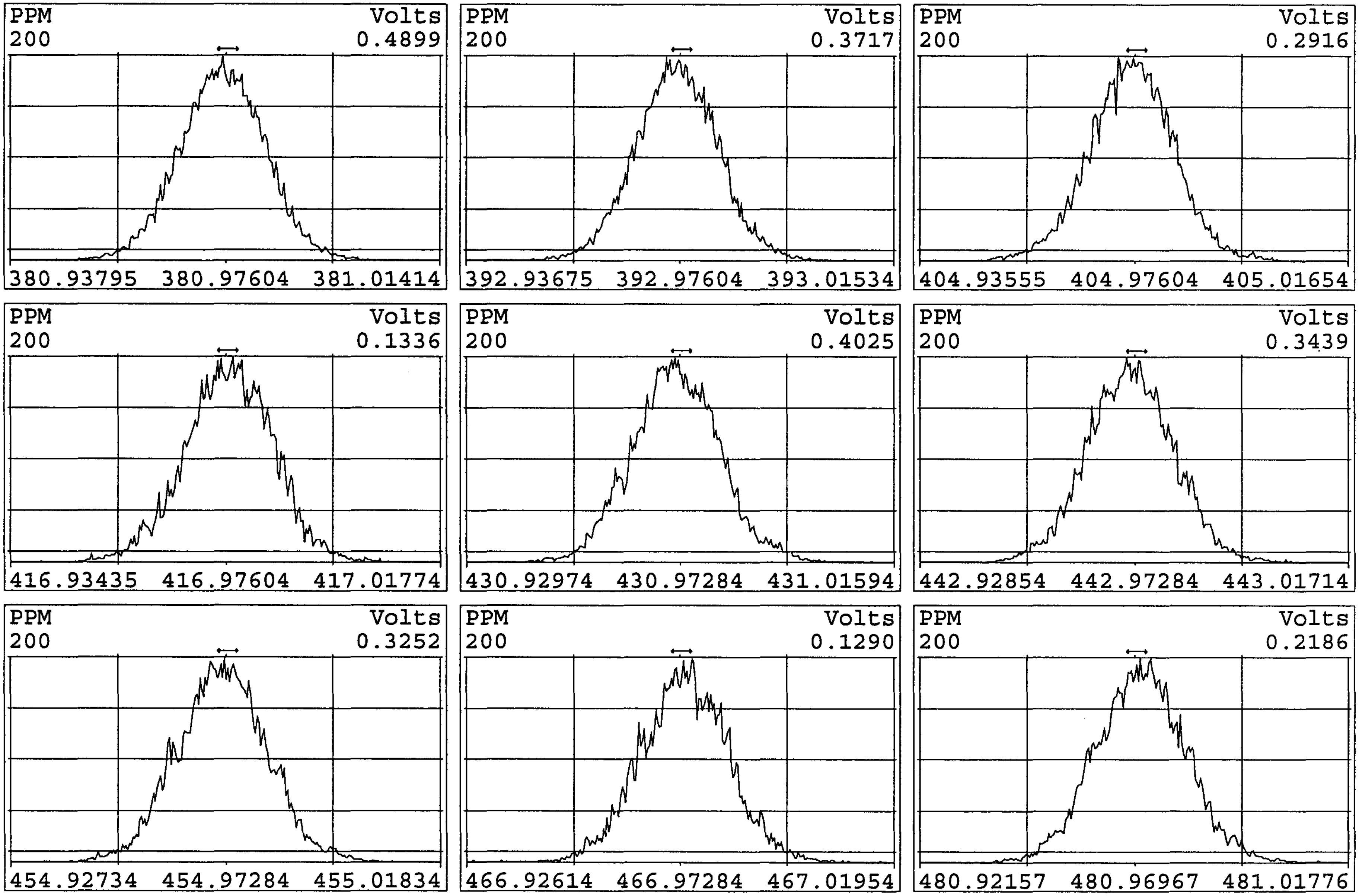


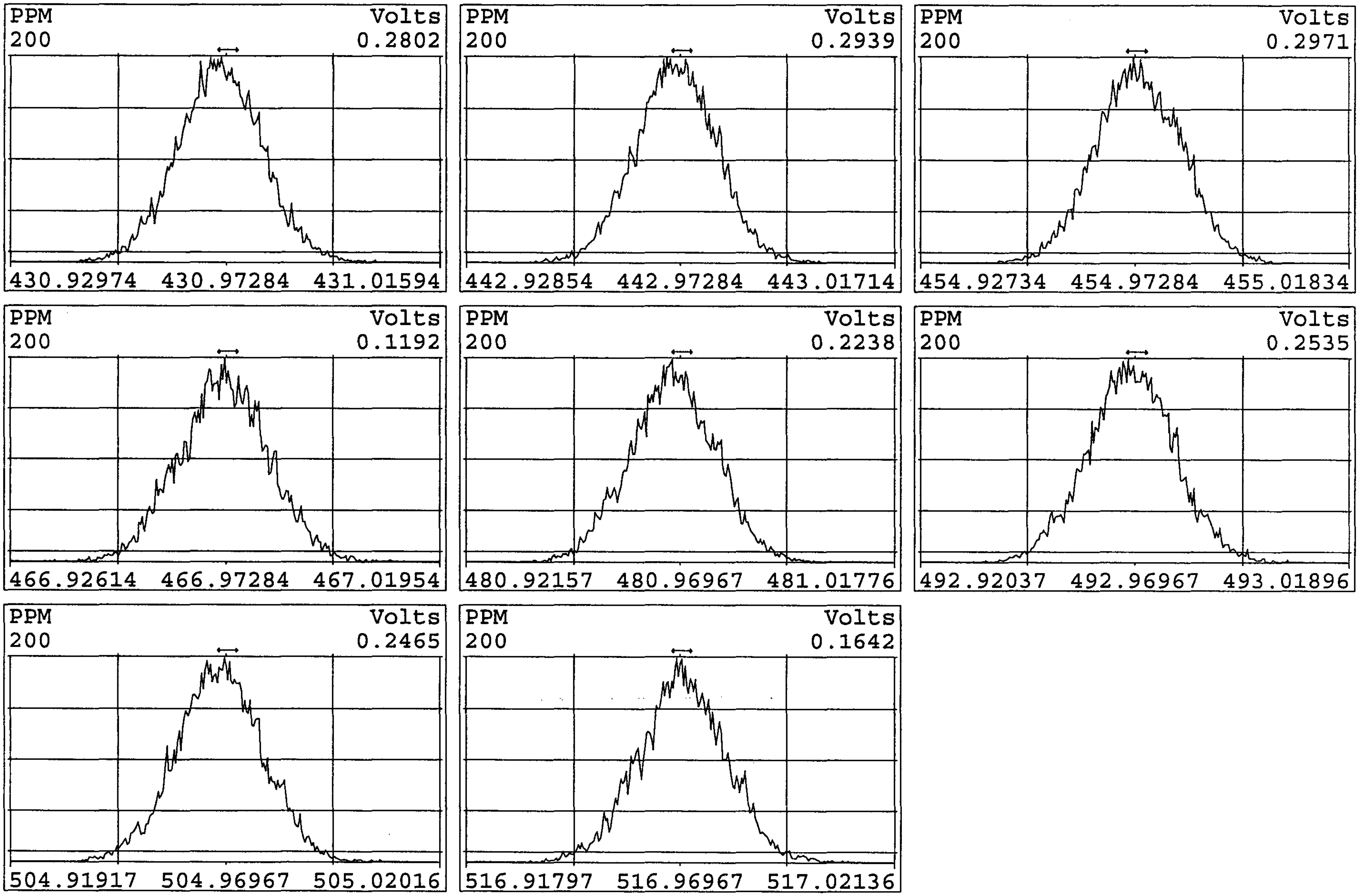
Peak Locate Examination:16-OCT-2010:20:18 File:RESCHK14OC104D5
Experiment:DIOXINRES Function:3 Reference:PFK



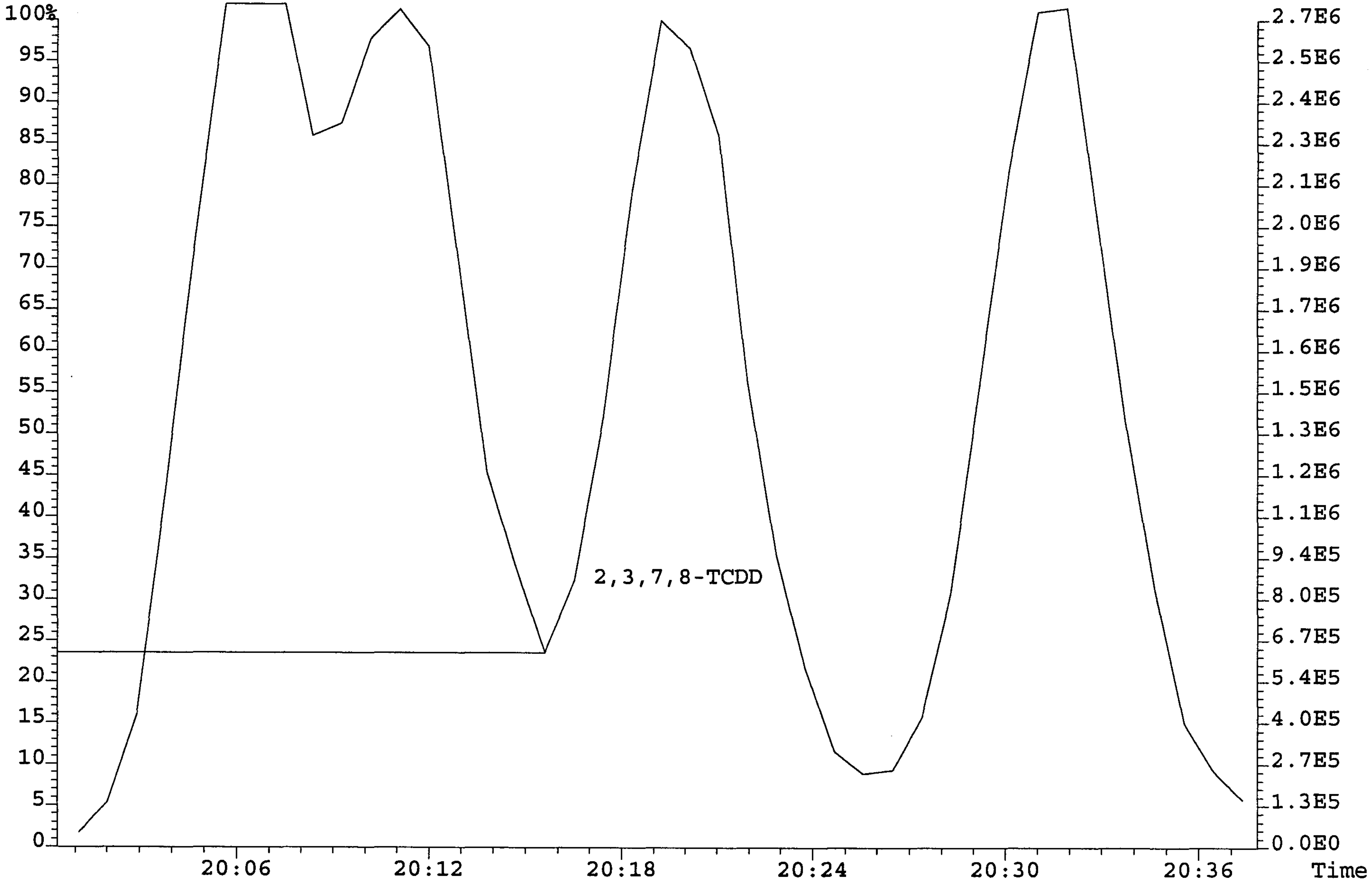
Peak Locate Examination:16-OCT-2010:20:19 File:RESCHK14OC104D5
Experiment:DIOXINRES Function:4 Reference:PFK



Peak Locate Examination:16-OCT-2010:20:20 File:RESCHK14OC104D5
Experiment:DIOXINRES Function:5 Reference:PFK



File:14OC104D5 #1-530 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES
319.8965 S:63 BSUB(128,15,-3.0)



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Run: 140C104D5    Analyte: T09            Cal: T090721104D5

     ST0721A :CS-1 10DXN342       ST0721B :CS-2 10DXN334       ST0721C :CS-3 10DXN336
     ST0721D :CS-5 10DXN339       ST0721E :CS-4 10DXN337

                                                    21JL10A4D521JL10A4D521JL10A4D521JL10A4D521JL10A4D5
                                                       S4        S5        S6        S7        S8
                Name     Mean    S. D.      %RSD      RRF1      RRF2      RRF3      RRF4      RRF5
     13C-1,2,3,4-TCDD       -        -        - %        -         -         -         -         -

     13C-2,3,7,8-TCDF    1.229   0.154    12.5 %      1.30      1.31      1.39      1.03      1.11
         2,3,7,8-TCDF    0.995   0.037    3.68 %      1.03      0.96      0.98      0.97      1.03
           Total TCDF    0.995   0.037    3.68 %      1.03      0.96      0.98      0.97      1.03

     13C-2,3,7,8-TCDD    0.905   0.029    3.25 %      0.92      0.92      0.94      0.88      0.87
         2,3,7,8-TCDD    0.983   0.032    3.24 %      0.98      0.94      0.97      1.01      1.02
           Total TCDD    0.983   0.032    3.24 %      0.98      0.94      0.97      1.01      1.02

    37Cl-2,3,7,8-TCDD    1.326   0.015    1.12 %      1.33      1.31      1.32      1.35      1.32

   13C-1,2,3,7,8-PeCDF   0.876   0.018    2.08 %      0.86      0.90      0.86      0.89      0.87
       1,2,3,7,8-PeCDF   1.077   0.042    3.92 %      1.03      1.04      1.08      1.11      1.12
       2,3,4,7,8-PeCDF   1.046   0.040    3.80 %      1.00      1.02      1.08      1.04      1.09
       Total F2 PeCDF    1.061   0.039    3.67 %      1.01      1.03      1.08      1.08      1.10
       Total F1 PeCDF    1.061   0.039    3.67 %      1.01      1.03      1.08      1.08      1.10

   13C-1,2,3,7,8-PeCDD   0.661   0.010    1.45 %      0.65      0.66      0.67      0.67      0.65
       1,2,3,7,8-PeCDD   0.925   0.038    4.09 %      0.89      0.88      0.94      0.95      0.97
           Total PeCDD   0.925   0.038    4.09 %      0.89      0.88      0.94      0.95      0.97

 13C-1,2,3,7,8,9-HxCDD      -        -        - %        -         -         -         -         -

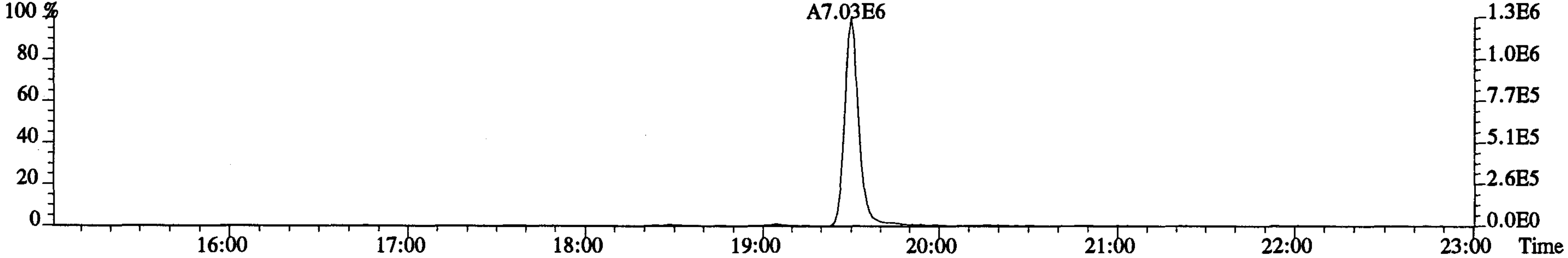
 13C-1,2,3,4,7,8-HxCDF   1.045   0.067    6.44 %      1.03      1.15      0.98      1.00      1.07
     1,2,3,4,7,8-HxCDF   1.217   0.012    1.02 %      1.21      1.20      1.22      1.22      1.23
     1,2,3,6,7,8-HxCDF   1.282   0.089    6.95 %      1.19      1.22      1.41      1.33      1.26
     2,3,4,6,7,8-HxCDF   1.233   0.080    6.49 %      1.19      1.15      1.35      1.27      1.21
     1,2,3,7,8,9-HxCDF   1.098   0.096    8.73 %      1.08      0.99      1.25      1.10      1.06
           Total HxCDF   1.208   0.066    5.43 %      1.17      1.14      1.31      1.23      1.19

 13C-1,2,3,6,7,8-HxCDD   0.831   0.055    6.68 %      0.84      0.83      0.92      0.77      0.79
     1,2,3,4,7,8-HxCDD   1.037   0.122    11.8 %      0.90      0.99      0.97      1.17      1.16
```

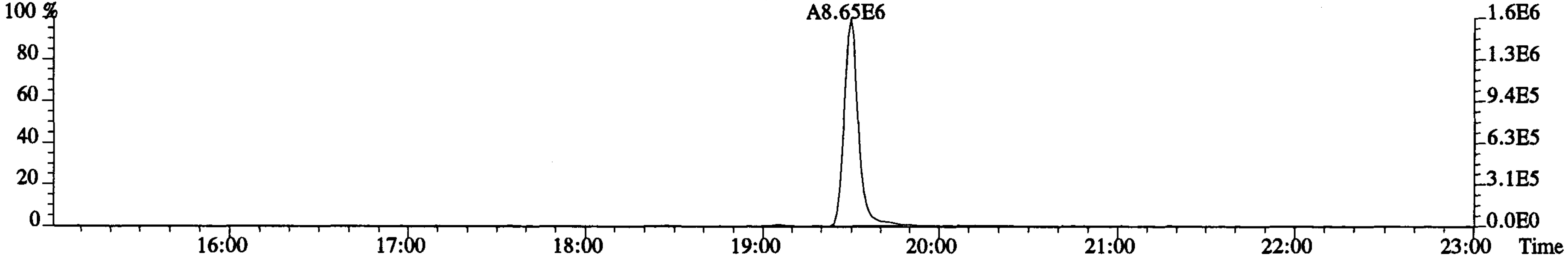
1,2,3,6,7,8-HxCDD	1.163	0.060	5.18 %	1.14	1.23	1.10	1.12	1.23
1,2,3,7,8,9-HxCDD	1.182	0.057	4.86 %	1.15	1.16	1.12	1.25	1.24
Total HxCDD	1.127	0.067	5.93 %	1.06	1.12	1.06	1.18	1.21
13C-1,2,3,4,6,7,8-HpCDF	0.910	0.051	5.65 %	0.99	0.91	0.92	0.87	0.86
1,2,3,4,6,7,8-HpCDF	1.346	0.027	1.99 %	1.31	1.34	1.35	1.35	1.38
1,2,3,4,7,8,9-HpCDF	1.093	0.049	4.49 %	1.01	1.09	1.11	1.13	1.13
Total HpCDF	1.220	0.037	3.05 %	1.16	1.21	1.23	1.24	1.26
13C-1,2,3,4,6,7,8-HpCDD	0.827	0.049	5.98 %	0.89	0.85	0.83	0.76	0.79
1,2,3,4,6,7,8-HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
Total HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
13C-OCDD	0.620	0.029	4.60 %	0.66	0.63	0.63	0.60	0.59
OCDF	1.370	0.027	1.98 %	1.36	1.35	1.35	1.39	1.41
OCDD	1.199	0.066	5.48 %	1.31	1.17	1.16	1.17	1.19

File:14OC104D5 #1-530 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES

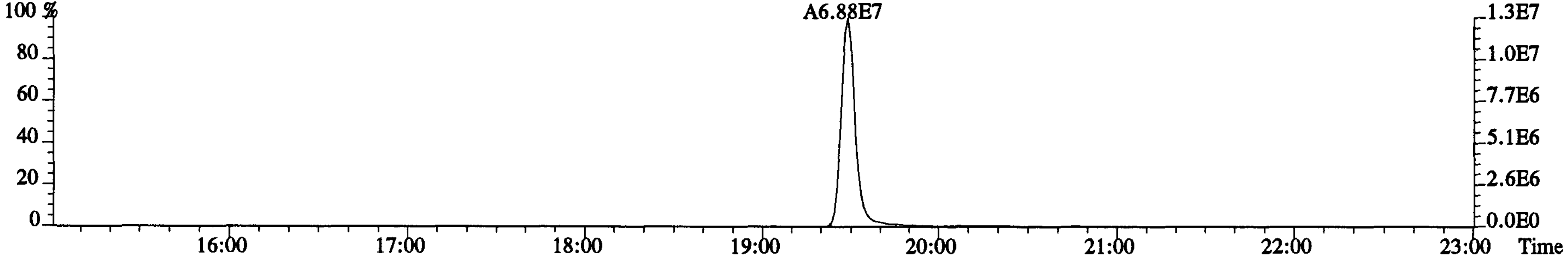
303.9016 S:62 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1044.0,1.00%,F,T)



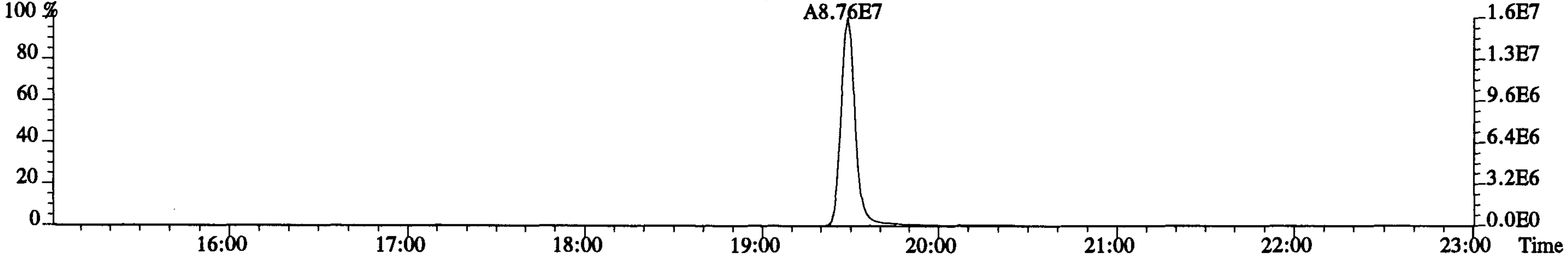
305.8987 S:62 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1920.0,1.00%,F,T)



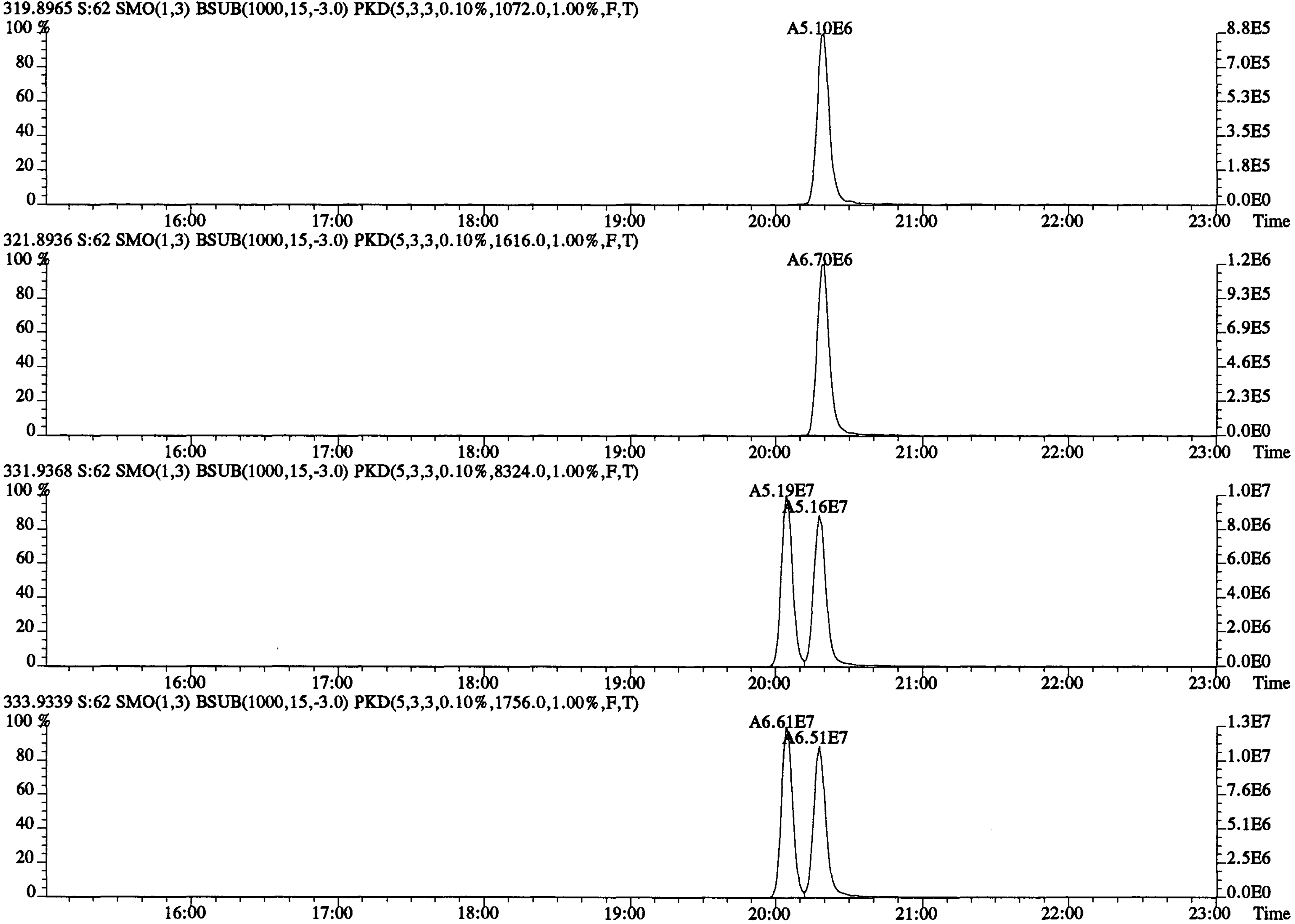
315.9419 S:62 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4748.0,1.00%,F,T)



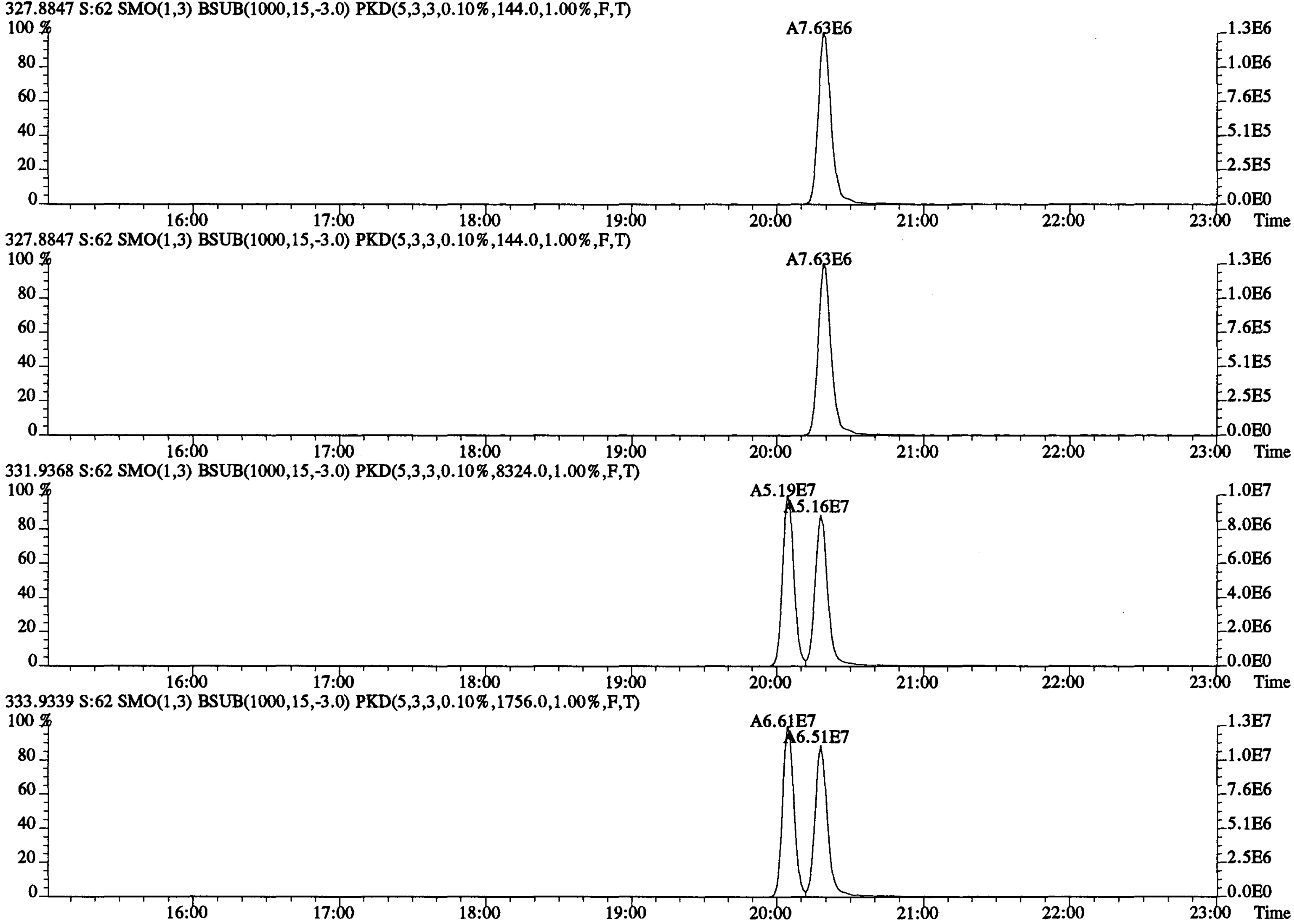
317.9389 S:62 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5352.0,1.00%,F,T)

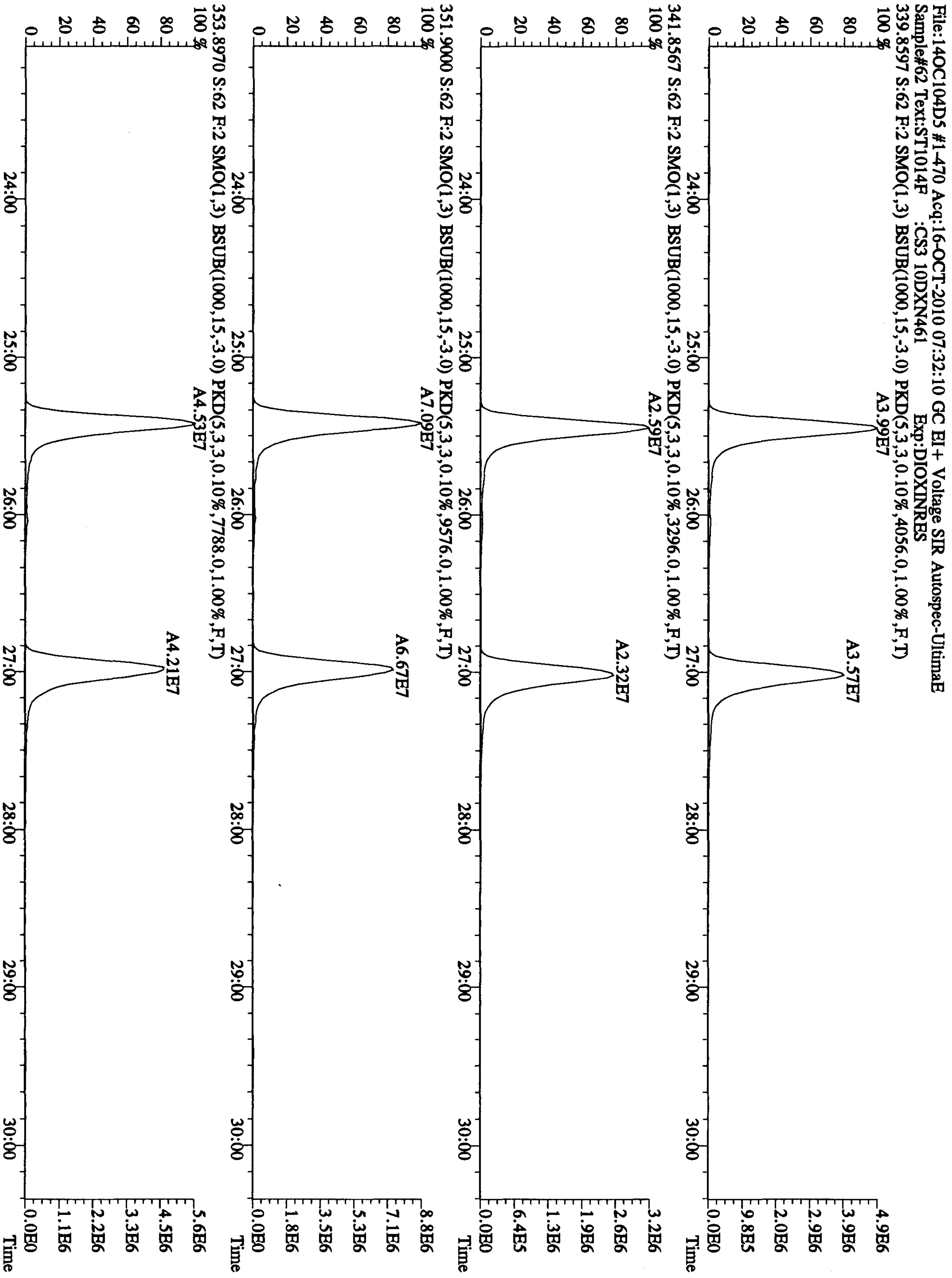


File:14OC104D5 #1-530 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES

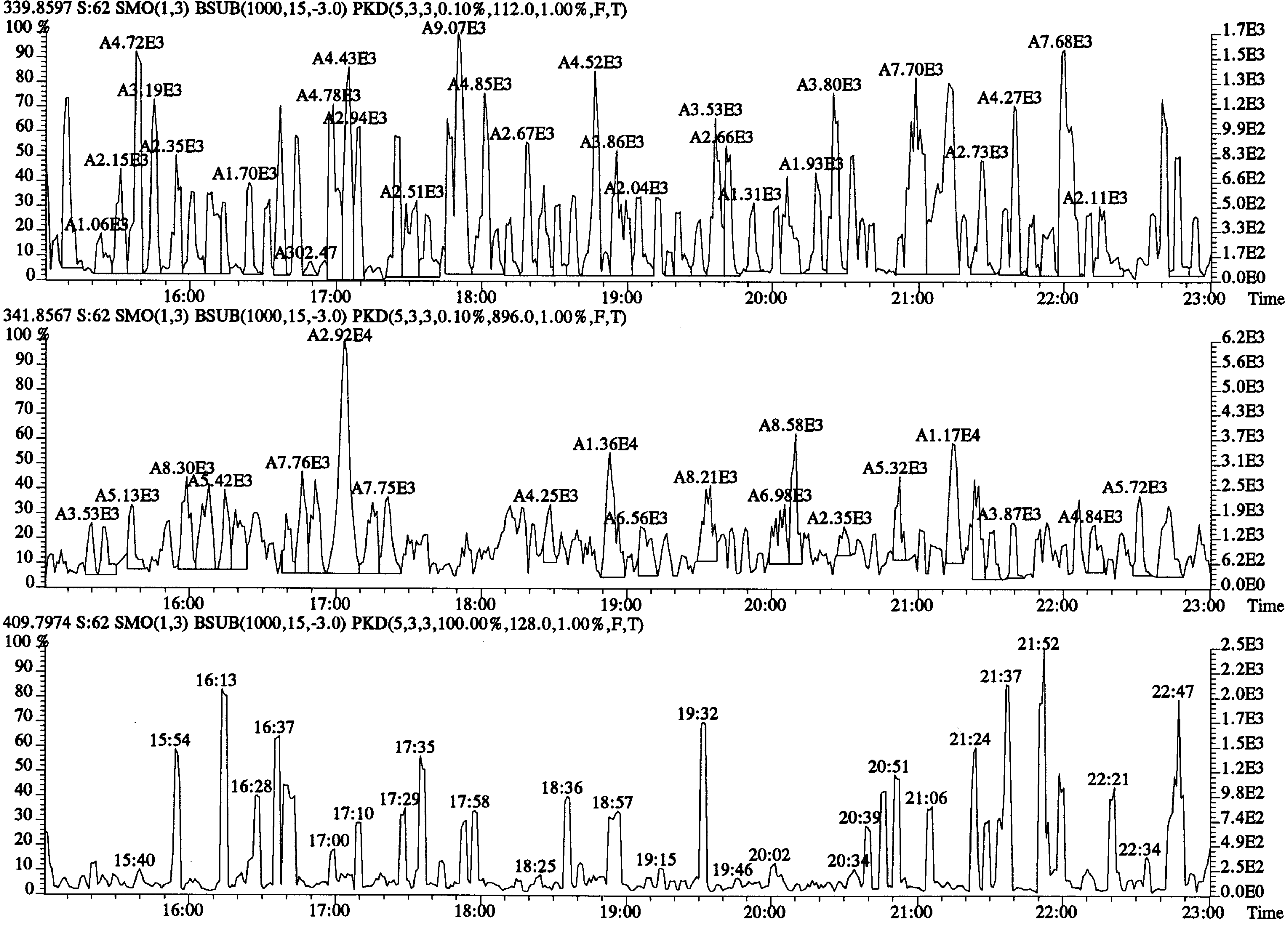


File:14OC104D5 #1-530 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES



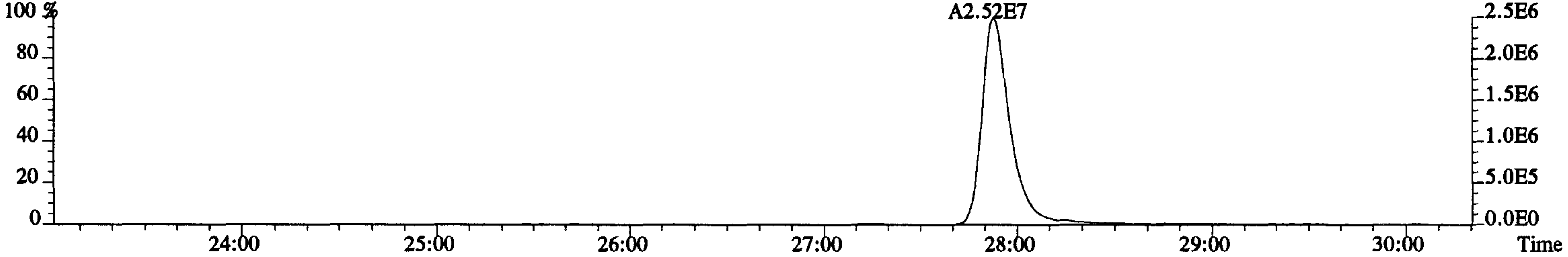

File:14OC104D5 #1-470 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES
339.8597 S:62 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4056.0,1.00%,F,T)
A3.99E7
A3.57E7
100 %
80
60
40
20
0
4.9E6
3.9E6
2.9E6
2.0E6
9.8E5
0.0E0
341.8567 S:62 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3296.0,1.00%,F,T)
A2.59E7
A2.32E7
3.2E6
2.6E6
1.9E6
1.3E6
6.4E5
0.0E0
351.9000 S:62 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9576.0,1.00%,F,T)
A7.09E7
A6.67E7
8.8E6
7.1E6
5.3E6
3.5E6
1.8E6
0.0E0
353.8970 S:62 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7788.0,1.00%,F,T)
A4.53E7
A4.21E7
5.6E6
4.5E6
3.3E6
2.2E6
1.1E6
0.0E0
24:00
25:00
26:00
27:00
28:00
29:00
30:00
Time

File:14OC104D5 #1-530 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES

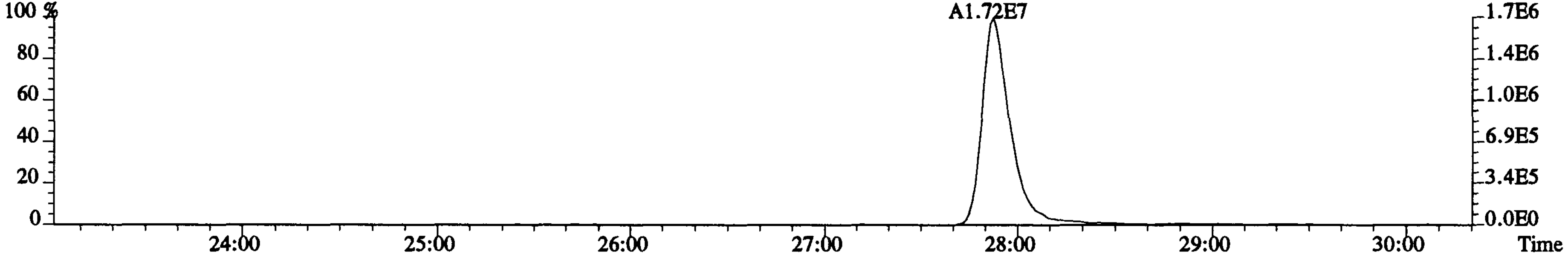


File:14OC104D5 #1-470 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES

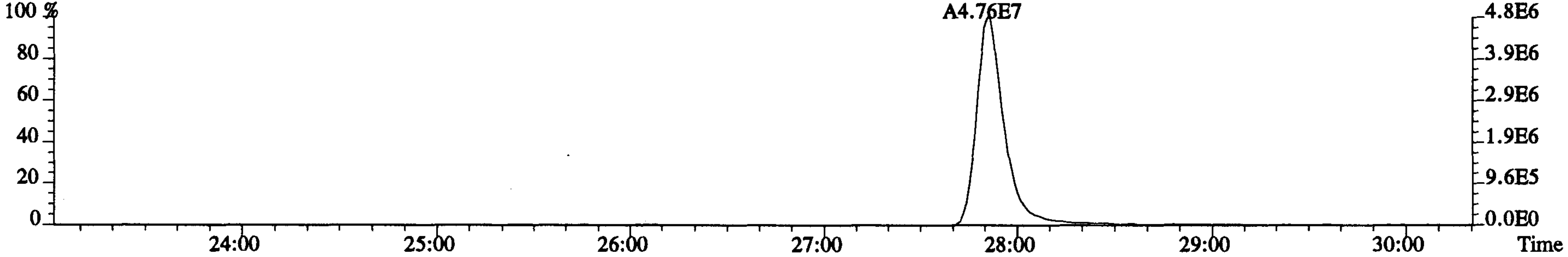
355.8546 S:62 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2512.0,1.00%,F,T)



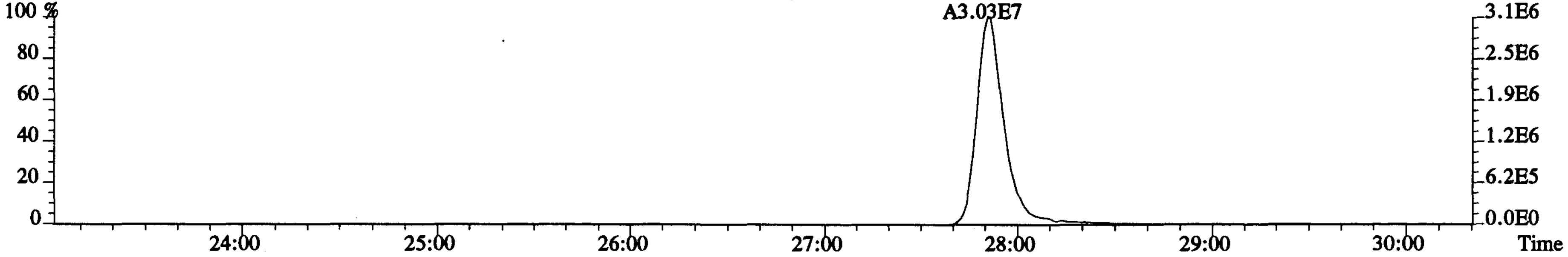
357.8516 S:62 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1636.0,1.00%,F,T)



367.8949 S:62 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4568.0,1.00%,F,T)

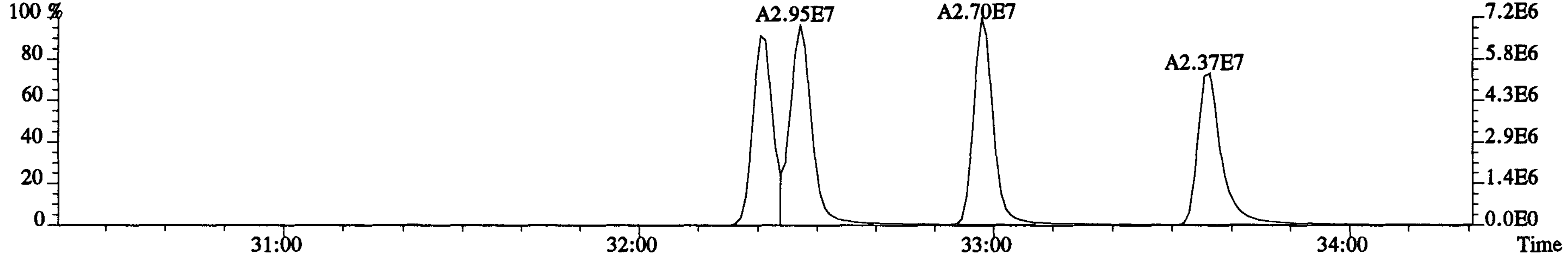


369.8919 S:62 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,176.0,1.00%,F,T)

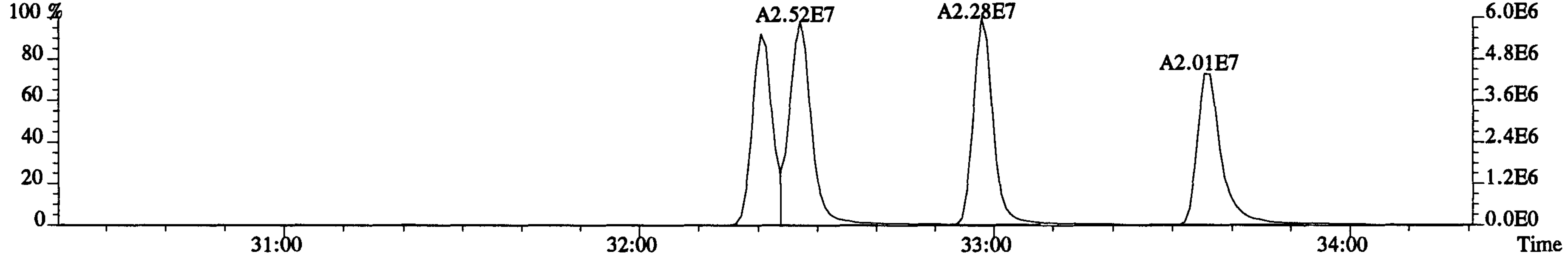


File:14OC104D5 #1-287 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES

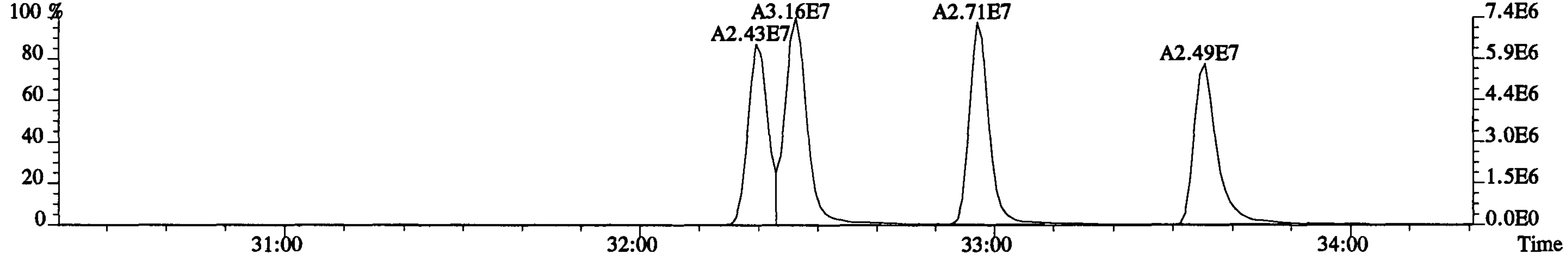
373.8208 S:62 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1080.0,1.00%,F,T)



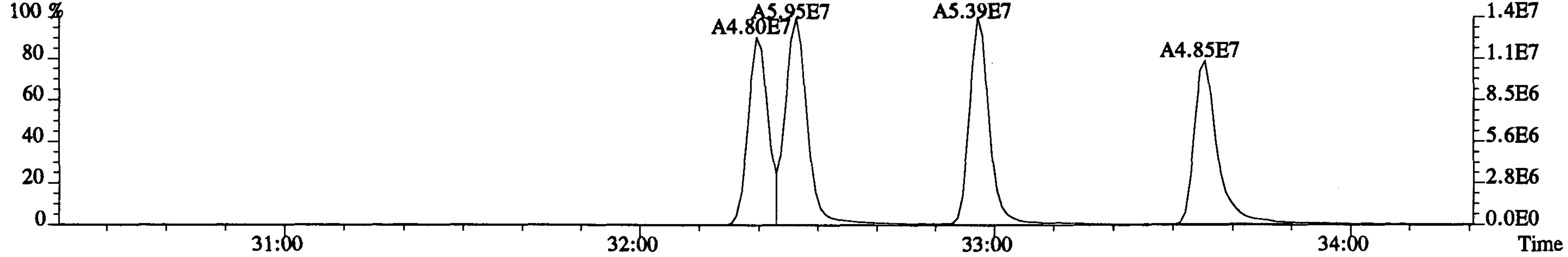
375.8178 S:62 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,812.0,1.00%,F,T)



383.8639 S:62 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,244.0,1.00%,F,T)

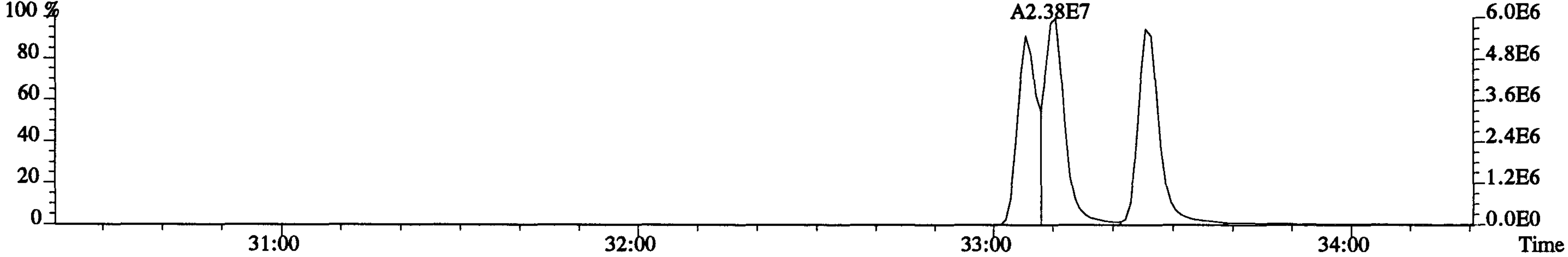


385.8610 S:62 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1384.0,1.00%,F,T)

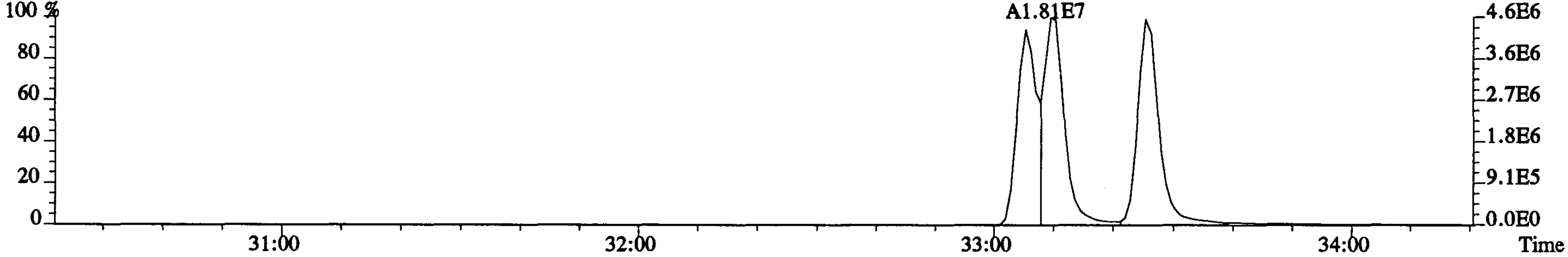


File:14OC104D5 #1-287 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES

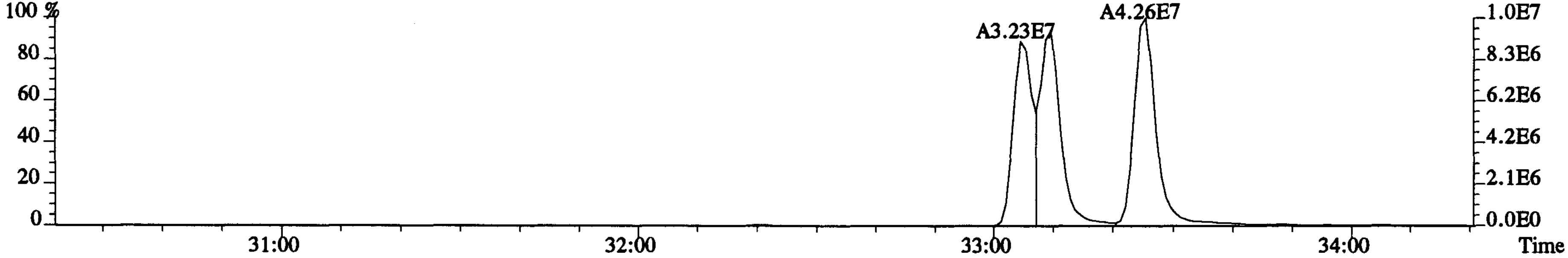
389.8157 S:62 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,544.0,1.00%,F,T)



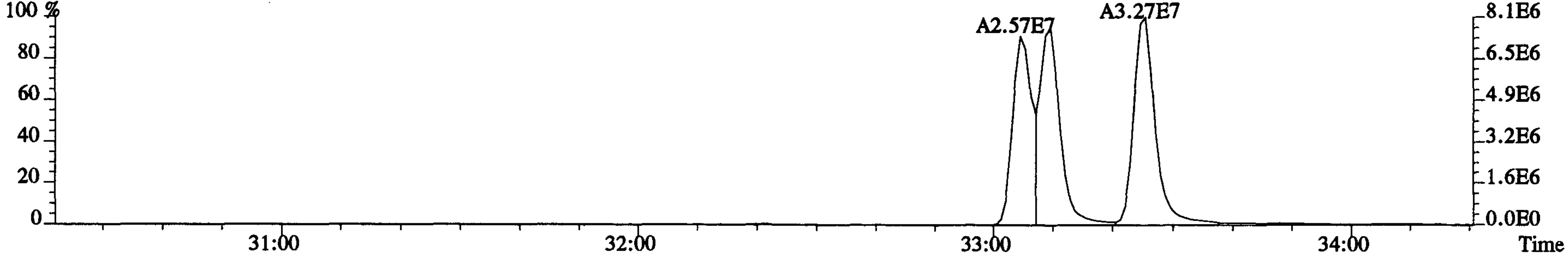
391.8127 S:62 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1024.0,1.00%,F,T)



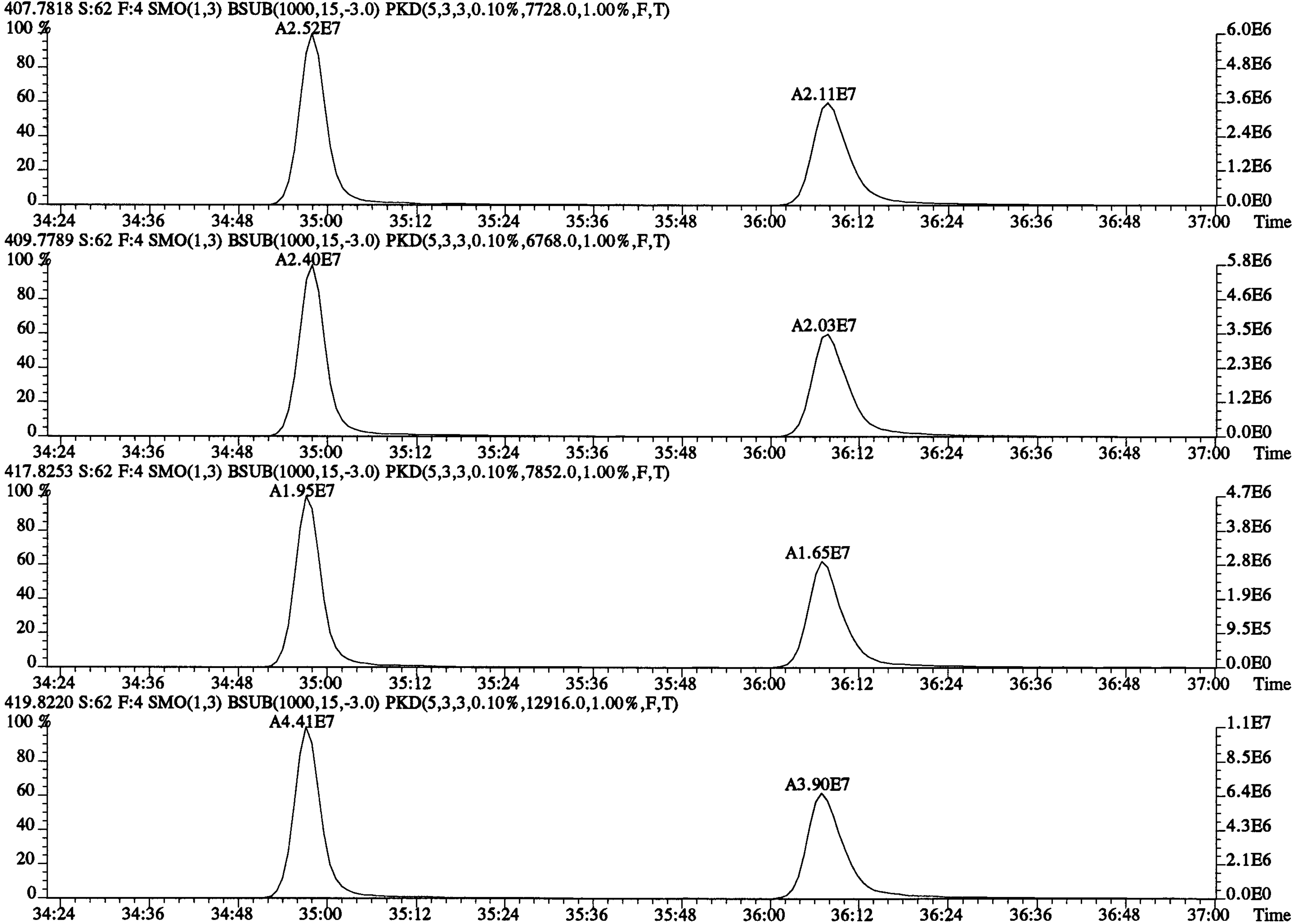
401.8559 S:62 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,292.0,1.00%,F,T)



403.8529 S:62 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,188.0,1.00%,F,T)

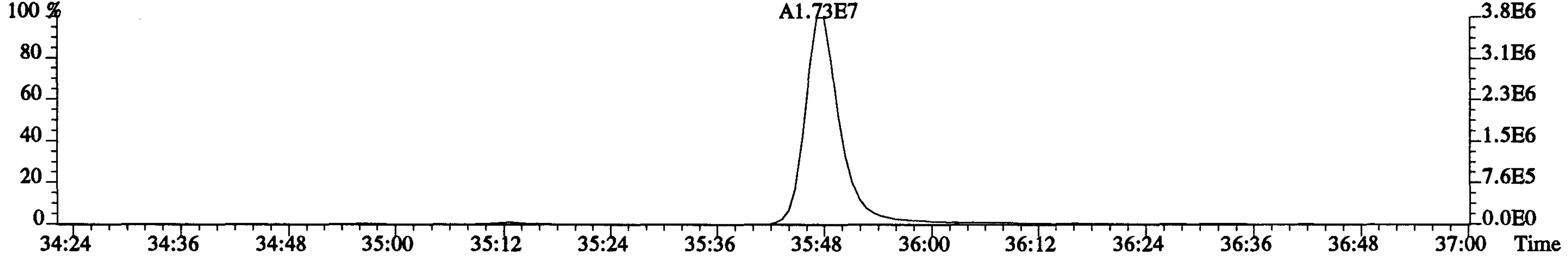


File:14OC104D5 #1-200 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES

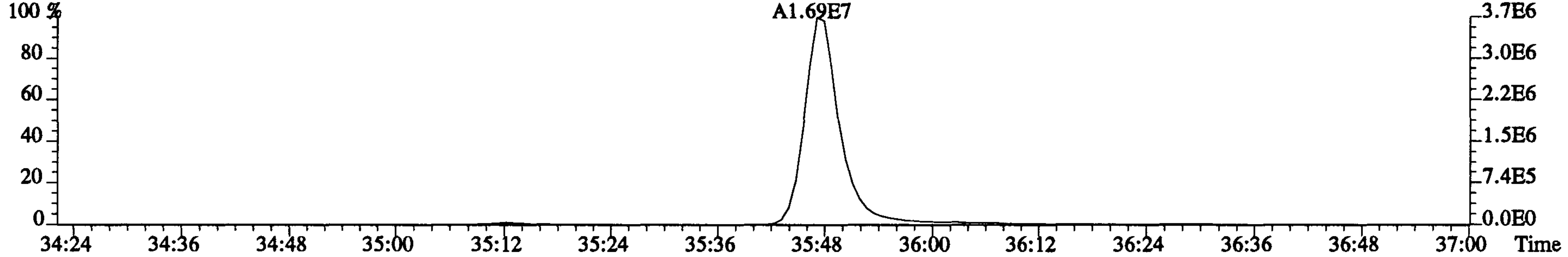


File:14OC104D5 #1-200 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES

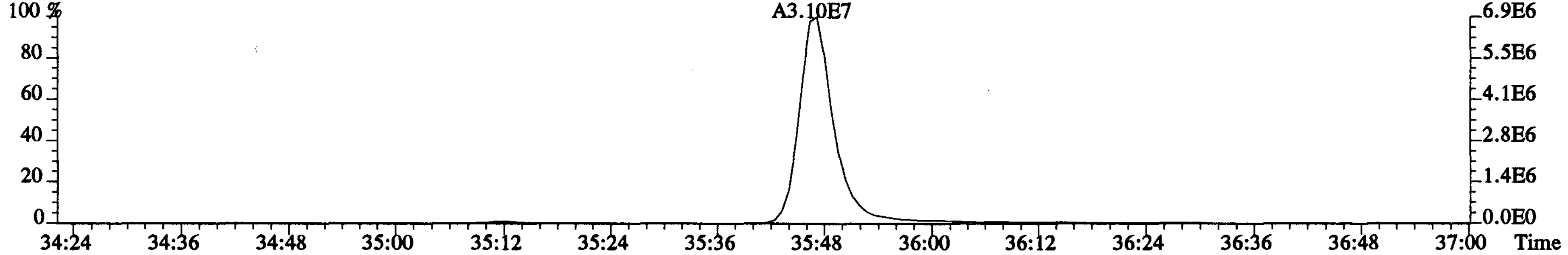
423.7766 S:62 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3288.0,1.00%,F,T)



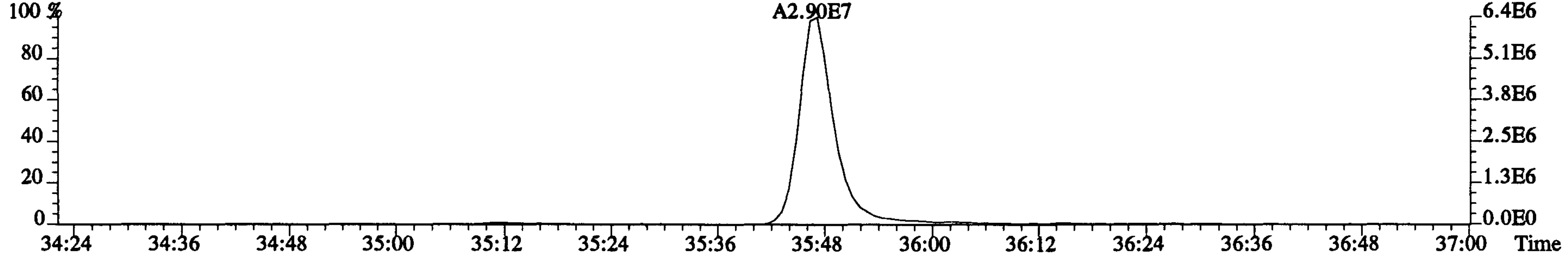
425.7737 S:62 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3148.0,1.00%,F,T)



435.8169 S:62 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7624.0,1.00%,F,T)

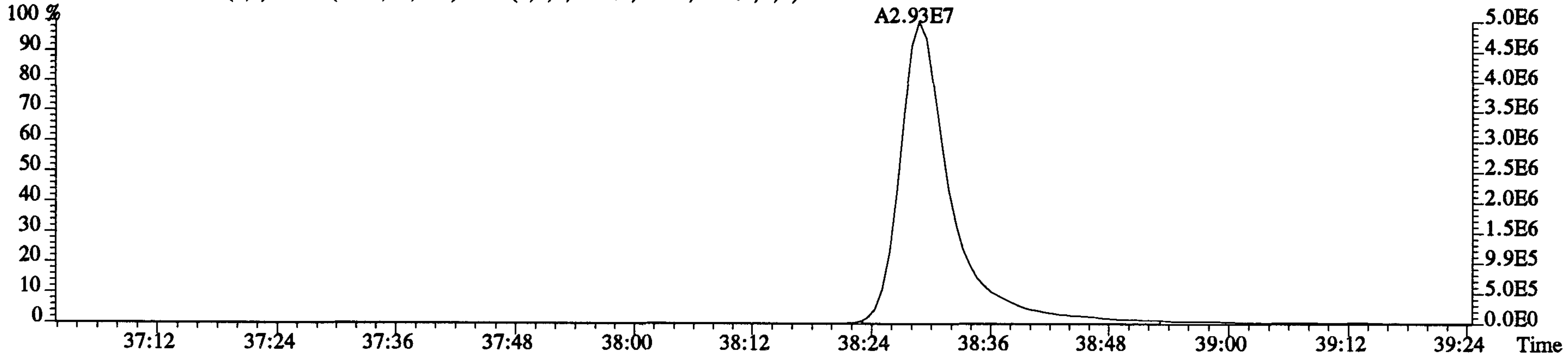


437.8140 S:62 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4020.0,1.00%,F,T)

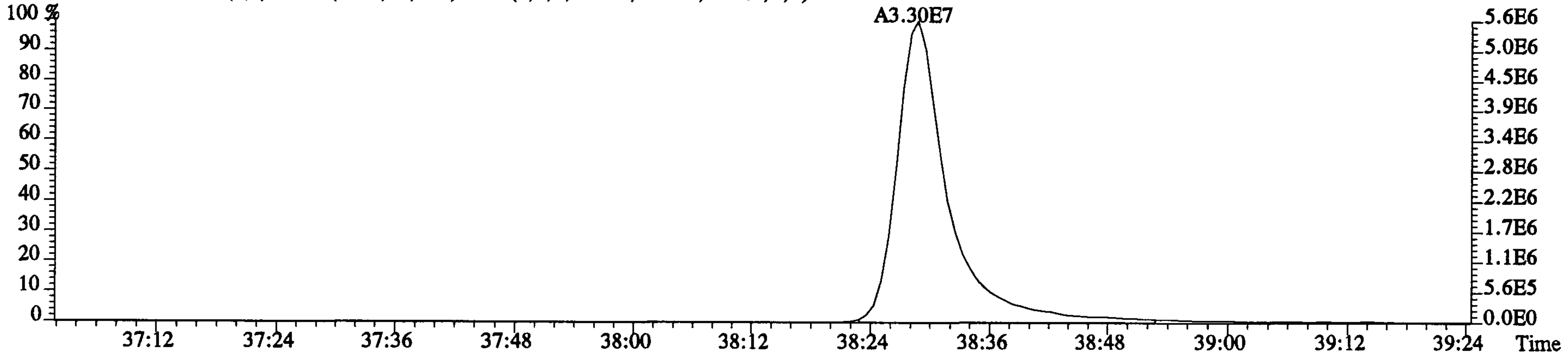


File:14OC104D5 #1-193 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES

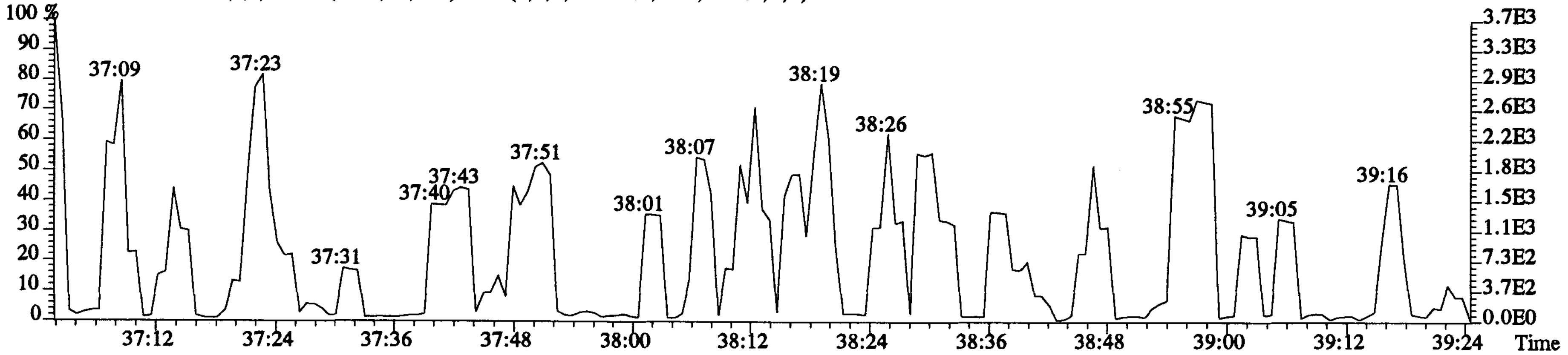
441.7428 S:62 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,688.0,1.00%,F,T)



443.7399 S:62 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1100.0,1.00%,F,T)

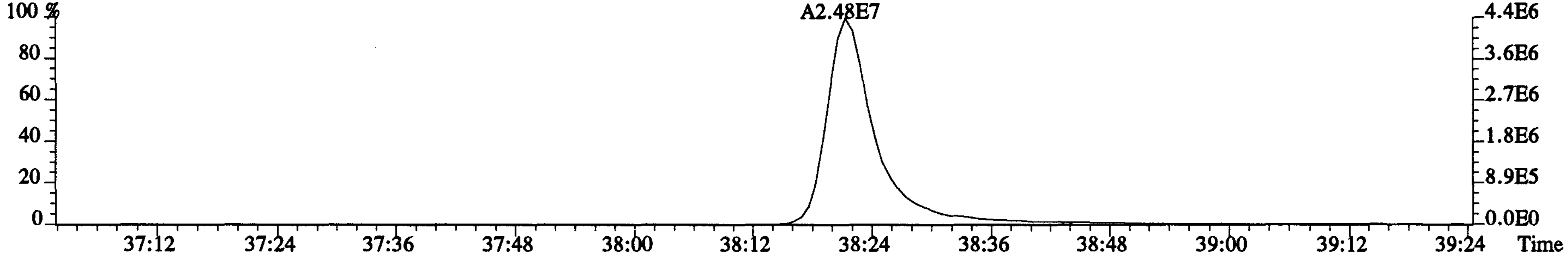


513.6775 S:62 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,88.0,1.00%,F,T)

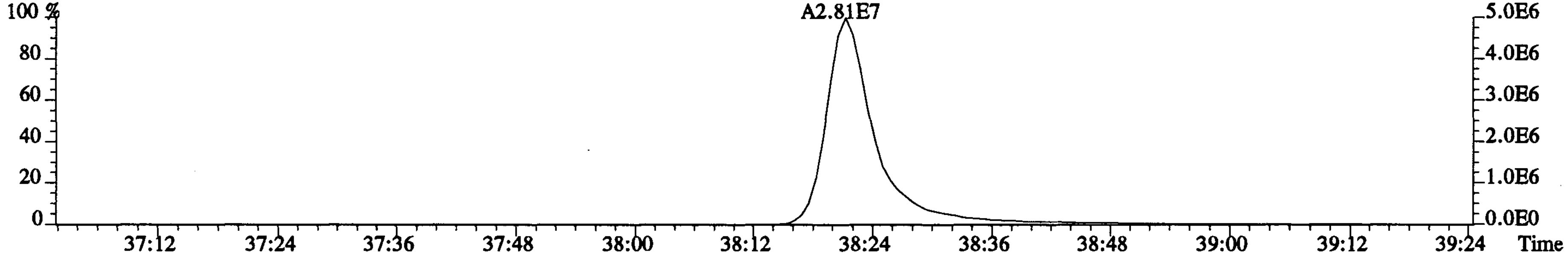


File:14OC104D5 #1-193 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES

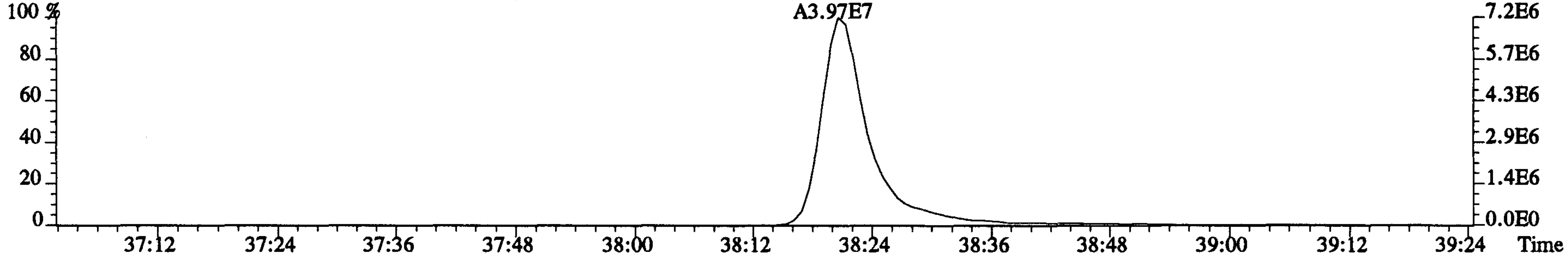
457.7377 S:62 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1024.0,1.00%,F,T)



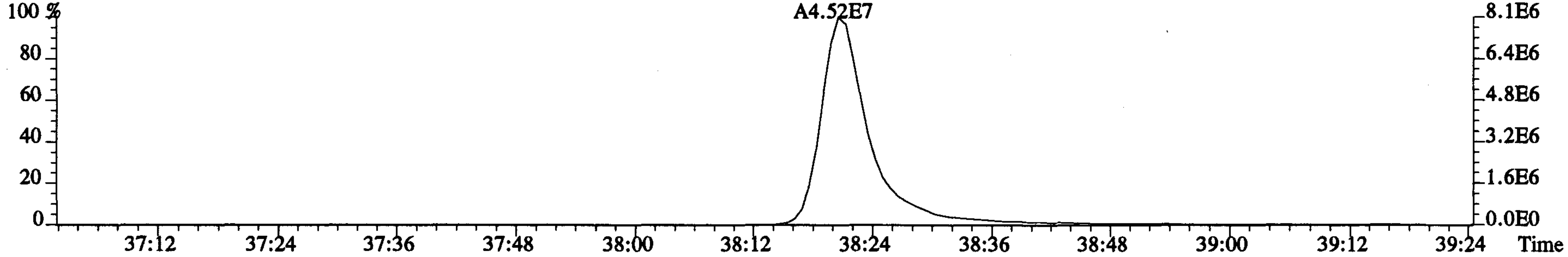
459.7348 S:62 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4780.0,1.00%,F,T)



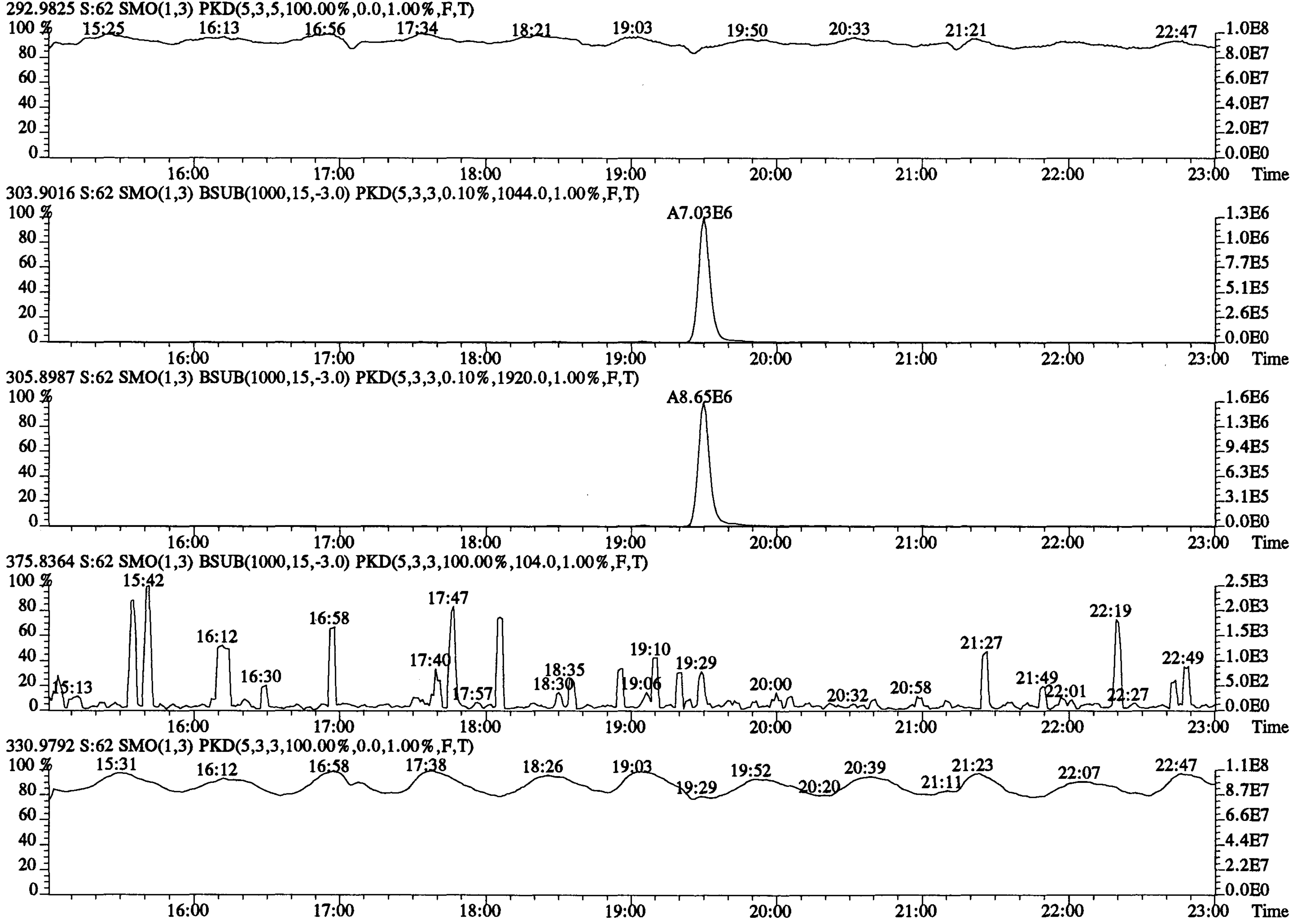
469.7779 S:62 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,140.0,1.00%,F,T)



471.7750 S:62 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,432.0,1.00%,F,T)

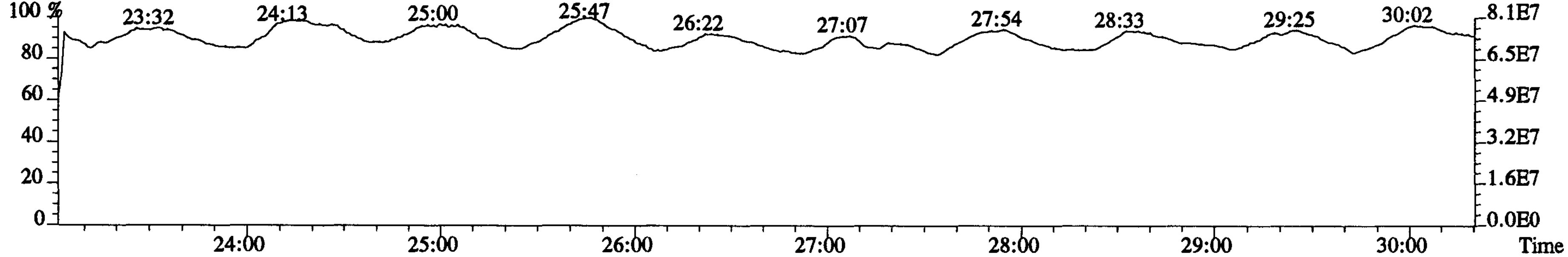


File:14OC104D5 #1-530 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES

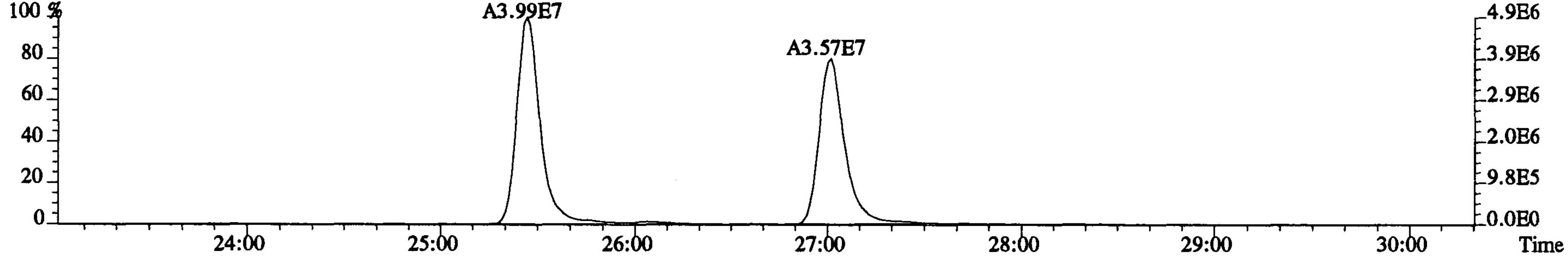


File:14OC104D5 #1-470 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES

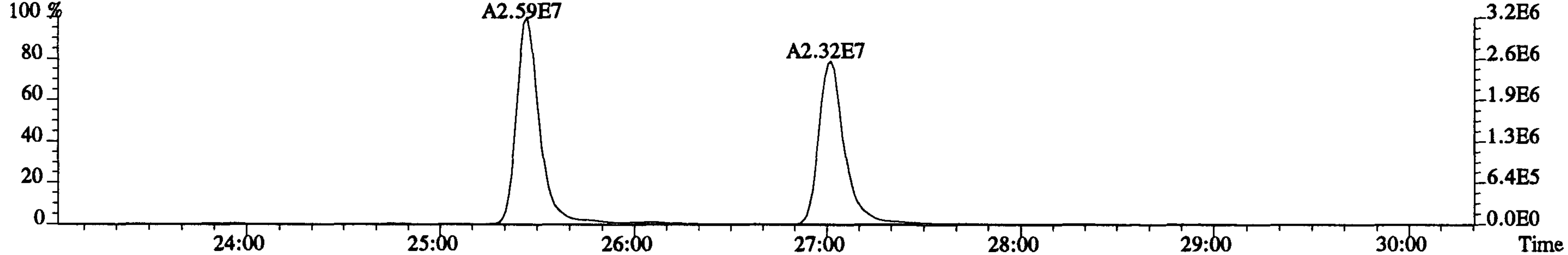
342.9792 S:62 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



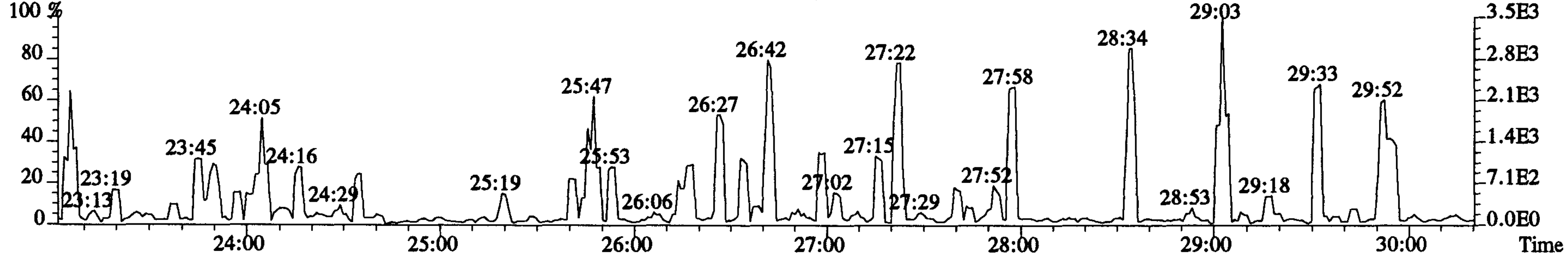
339.8597 S:62 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4056.0,1.00%,F,T)



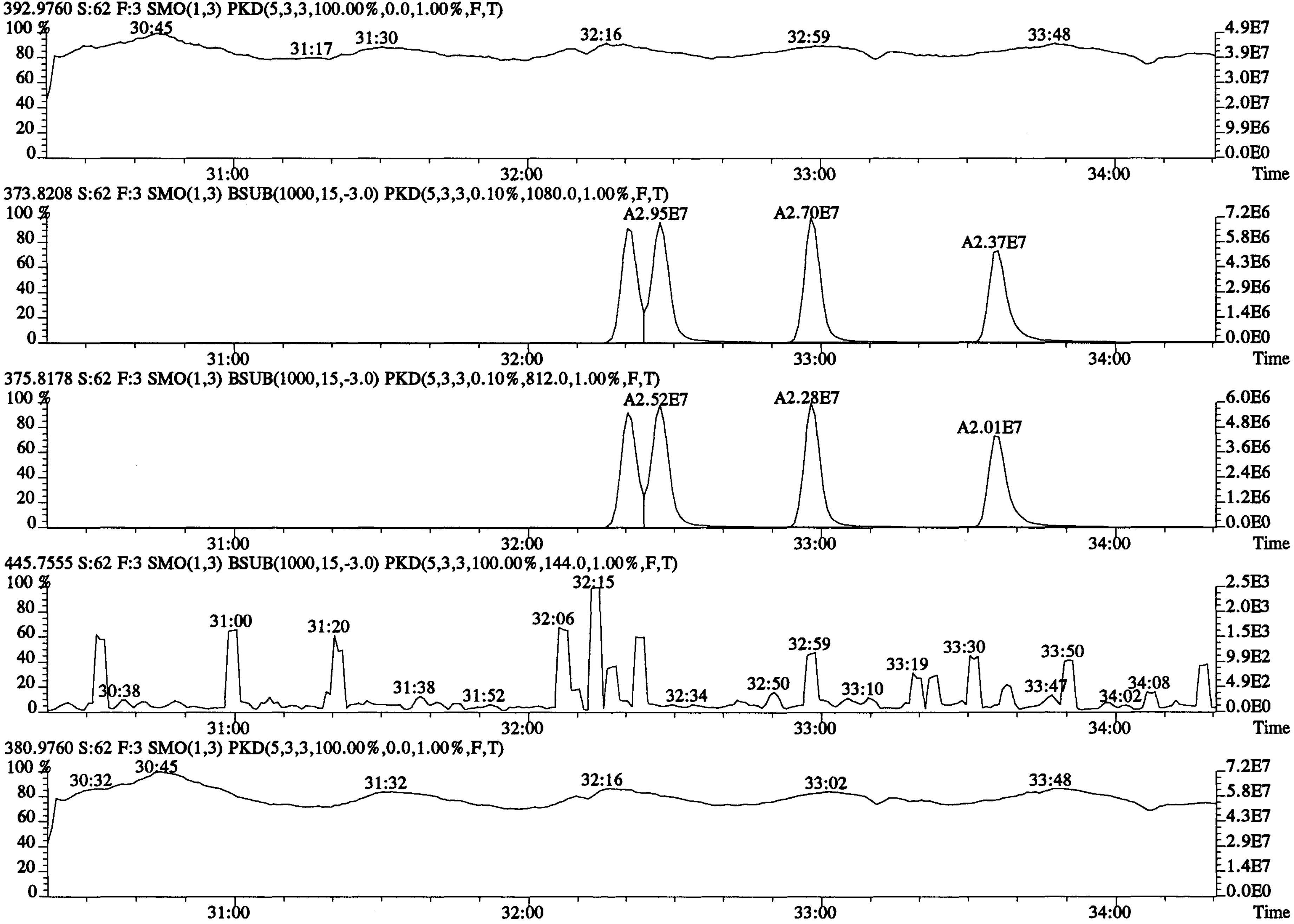
341.8567 S:62 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3296.0,1.00%,F,T)



409.7974 S:62 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,116.0,1.00%,F,T)

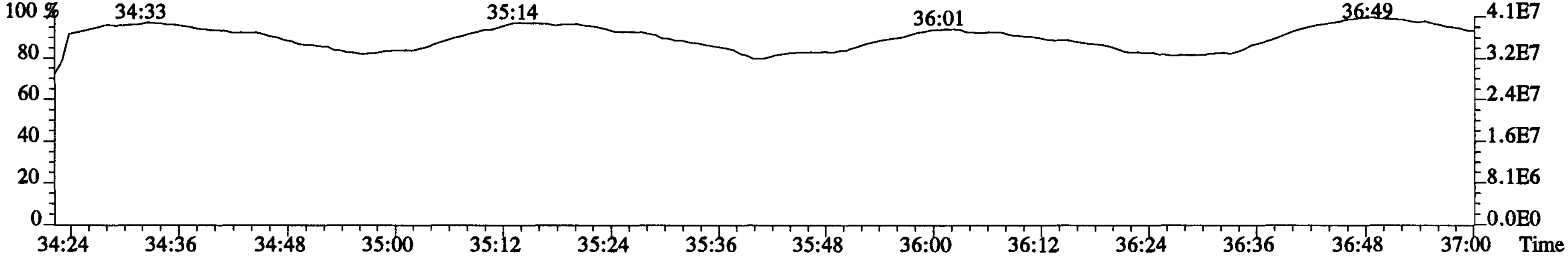


File:14OC104D5 #1-287 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES

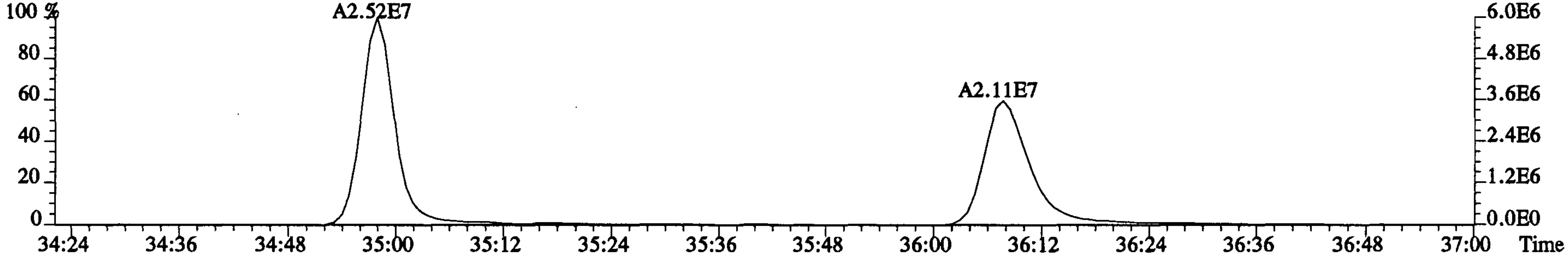


File:14OC104D5 #1-200 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES

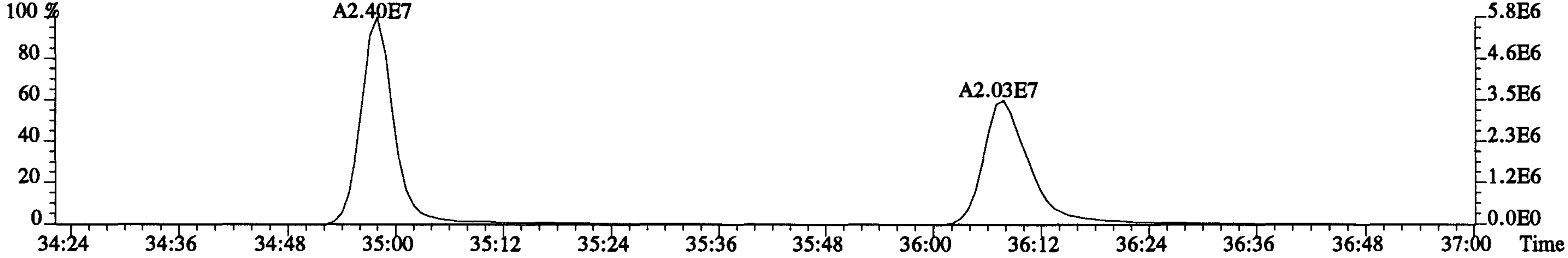
430.9728 S:62 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



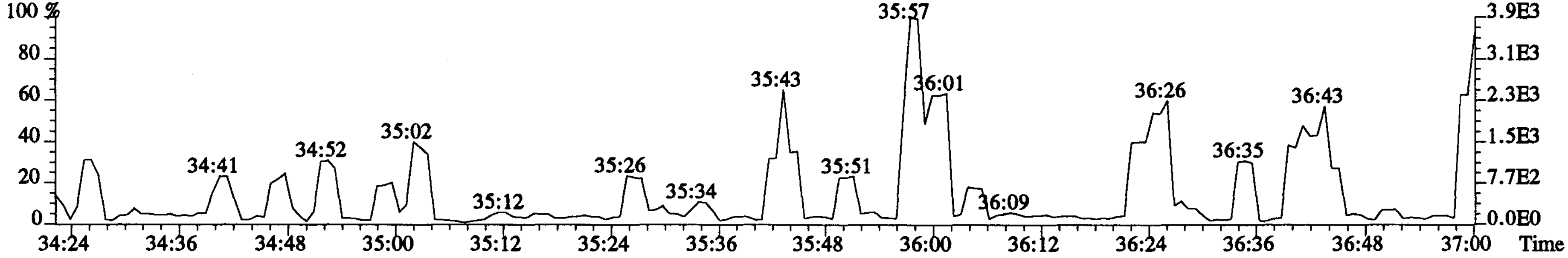
407.7818 S:62 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7728.0,1.00%,F,T)



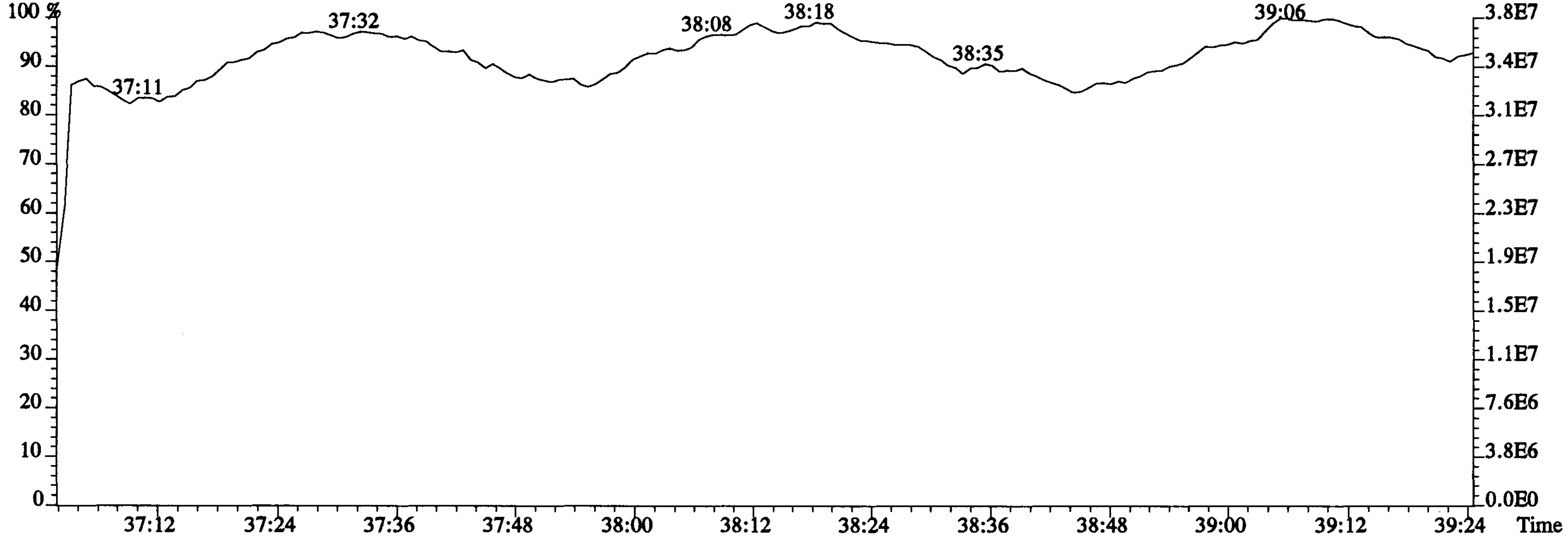
409.7789 S:62 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6768.0,1.00%,F,T)



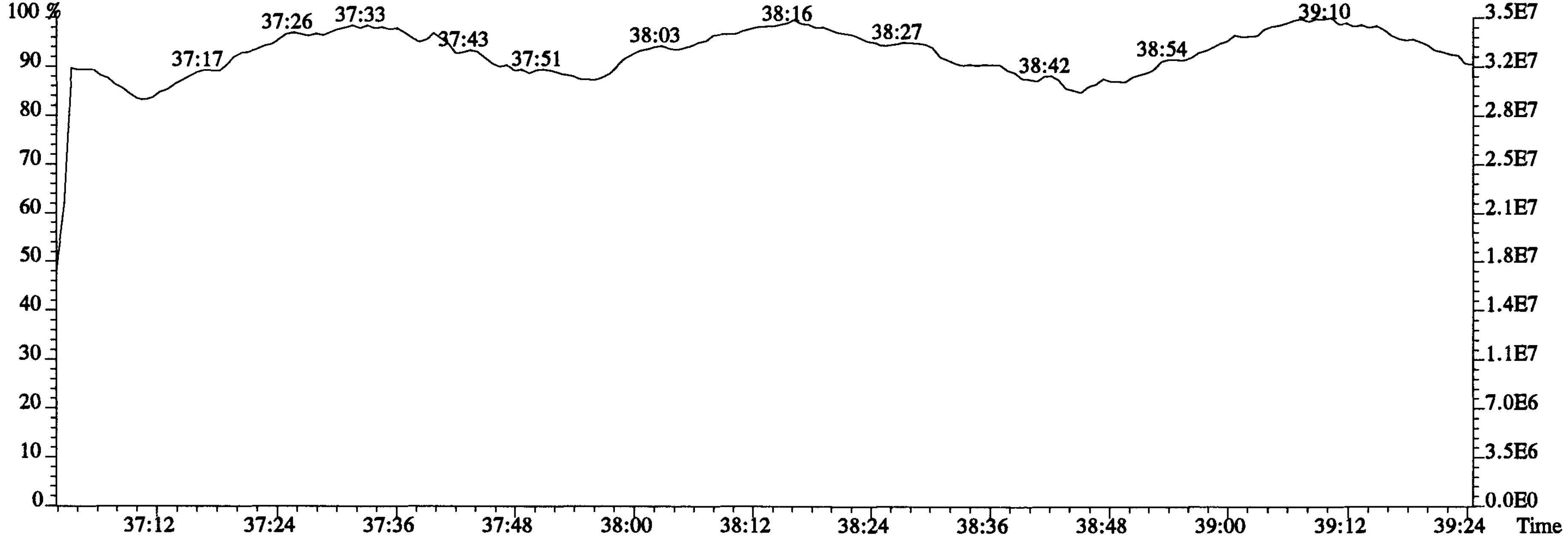
479.7165 S:62 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,184.0,1.00%,F,T)



File:14OC104D5 #1-193 Acq:16-OCT-2010 07:32:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#62 Text:ST1014F :CS3 10DXN461 Exp:DIOXINRES
454.9728 S:62 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

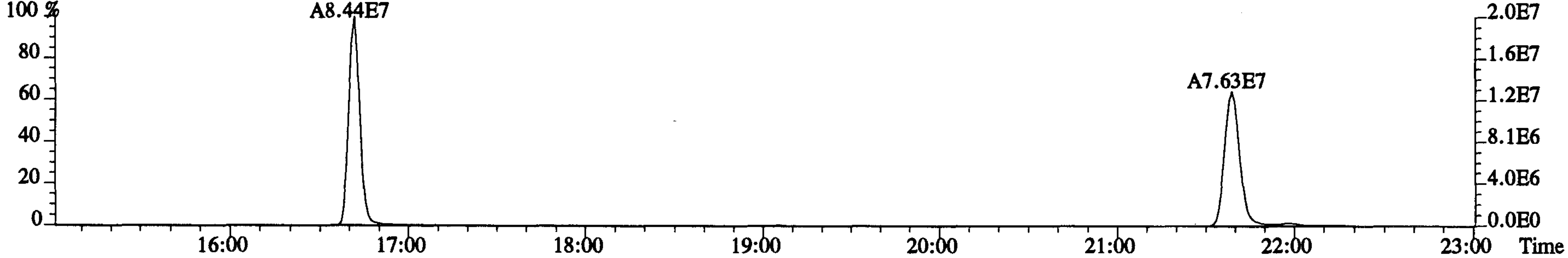


442.9728 S:62 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

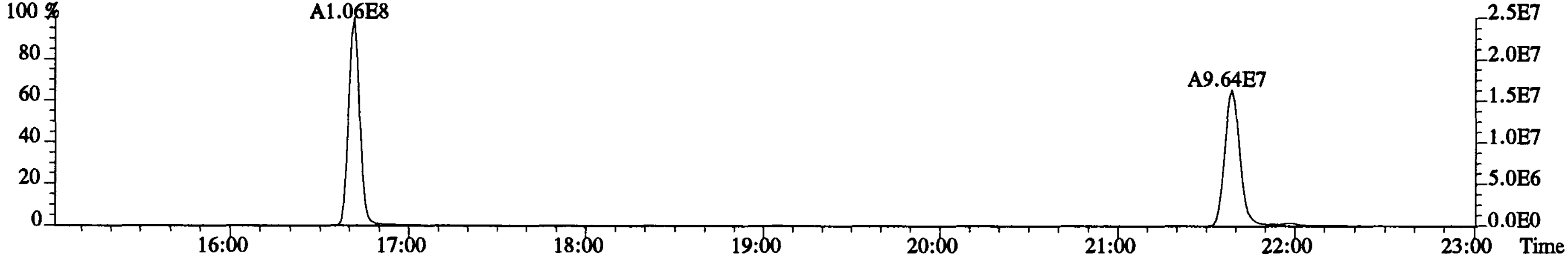


File:14OC104D5 #1-530 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES

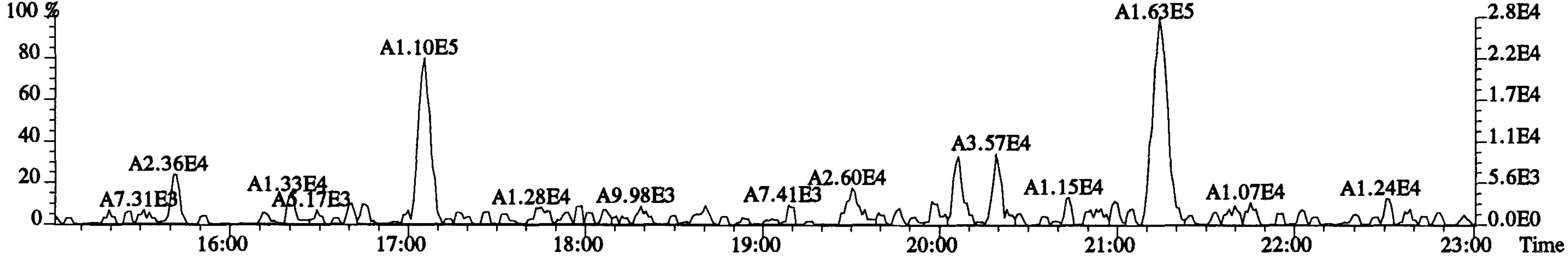
303.9016 S:63 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3740.0,1.00%,F,T)



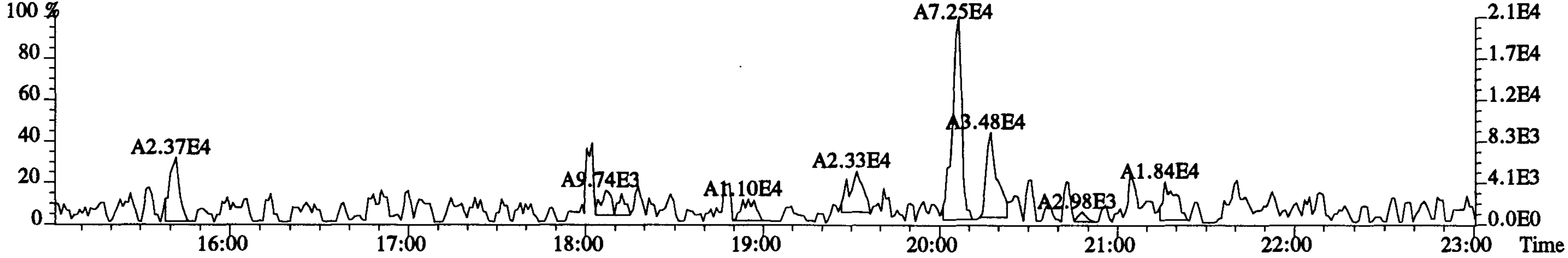
305.8987 S:63 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4168.0,1.00%,F,T)



315.9419 S:63 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,128.0,1.00%,F,T)

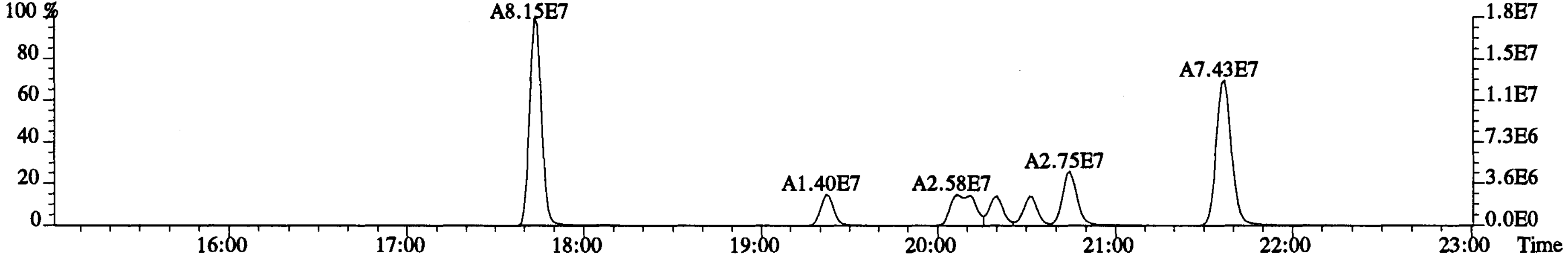


317.9389 S:63 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2504.0,1.00%,F,T)

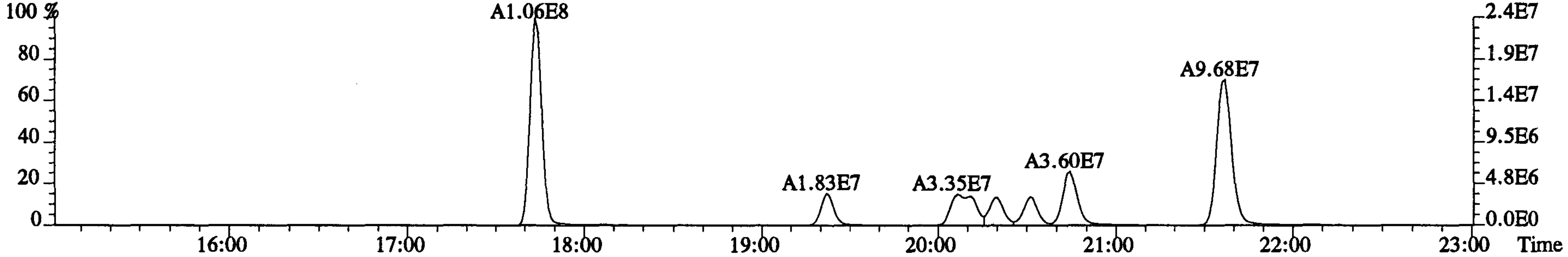


File:14OC104D5 #1-530 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES

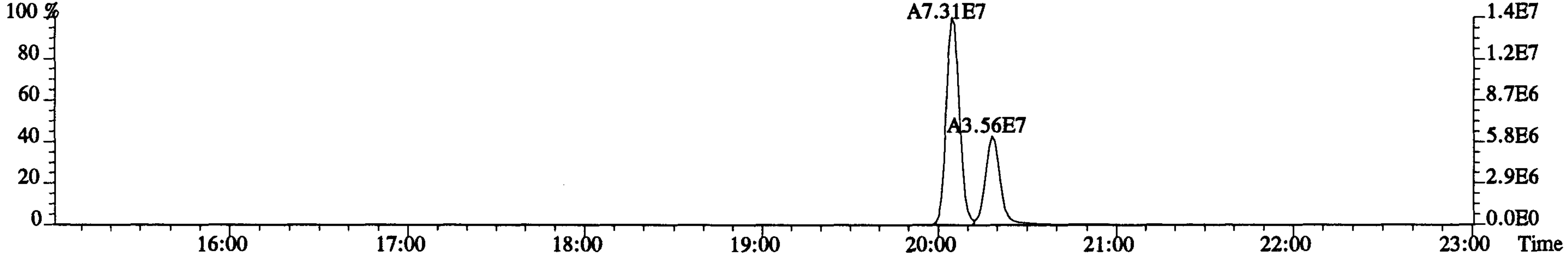
319.8965 S:63 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6872.0,1.00%,F,T)



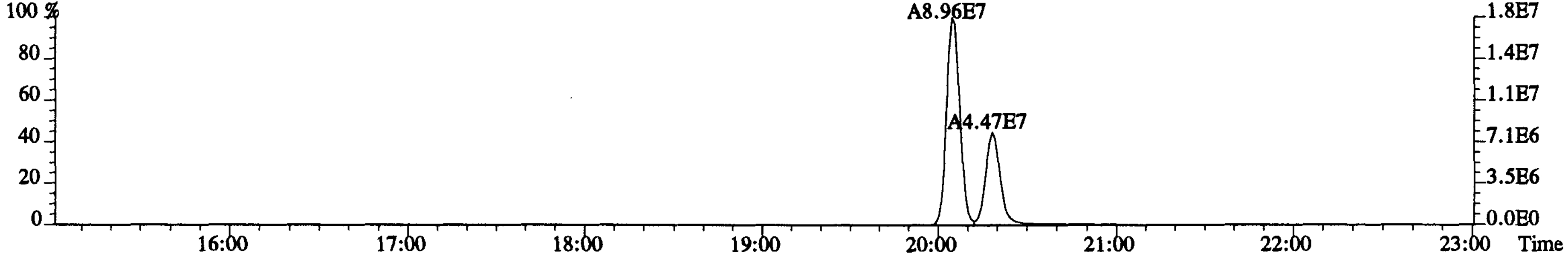
321.8936 S:63 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6608.0,1.00%,F,T)



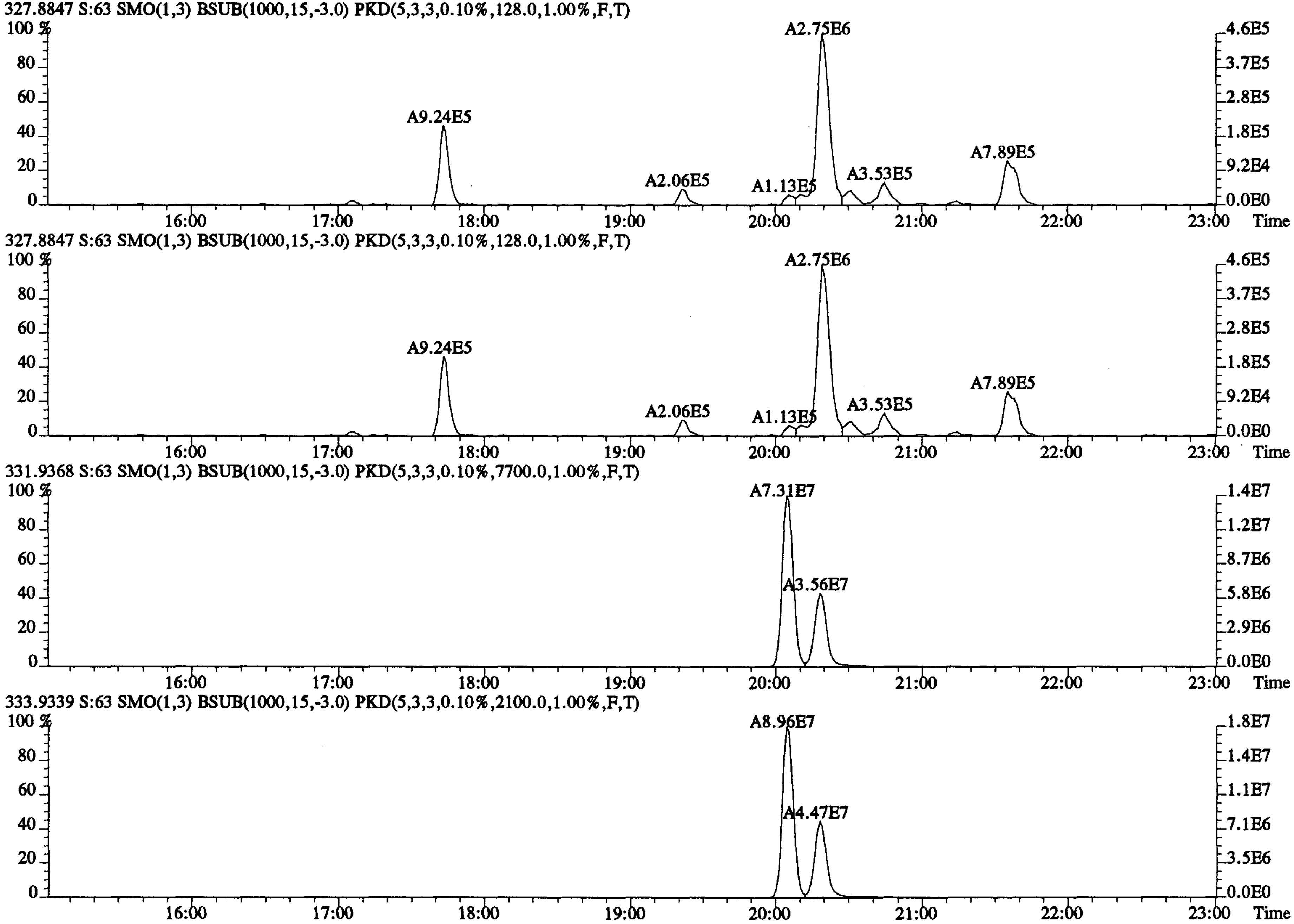
331.9368 S:63 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7700.0,1.00%,F,T)



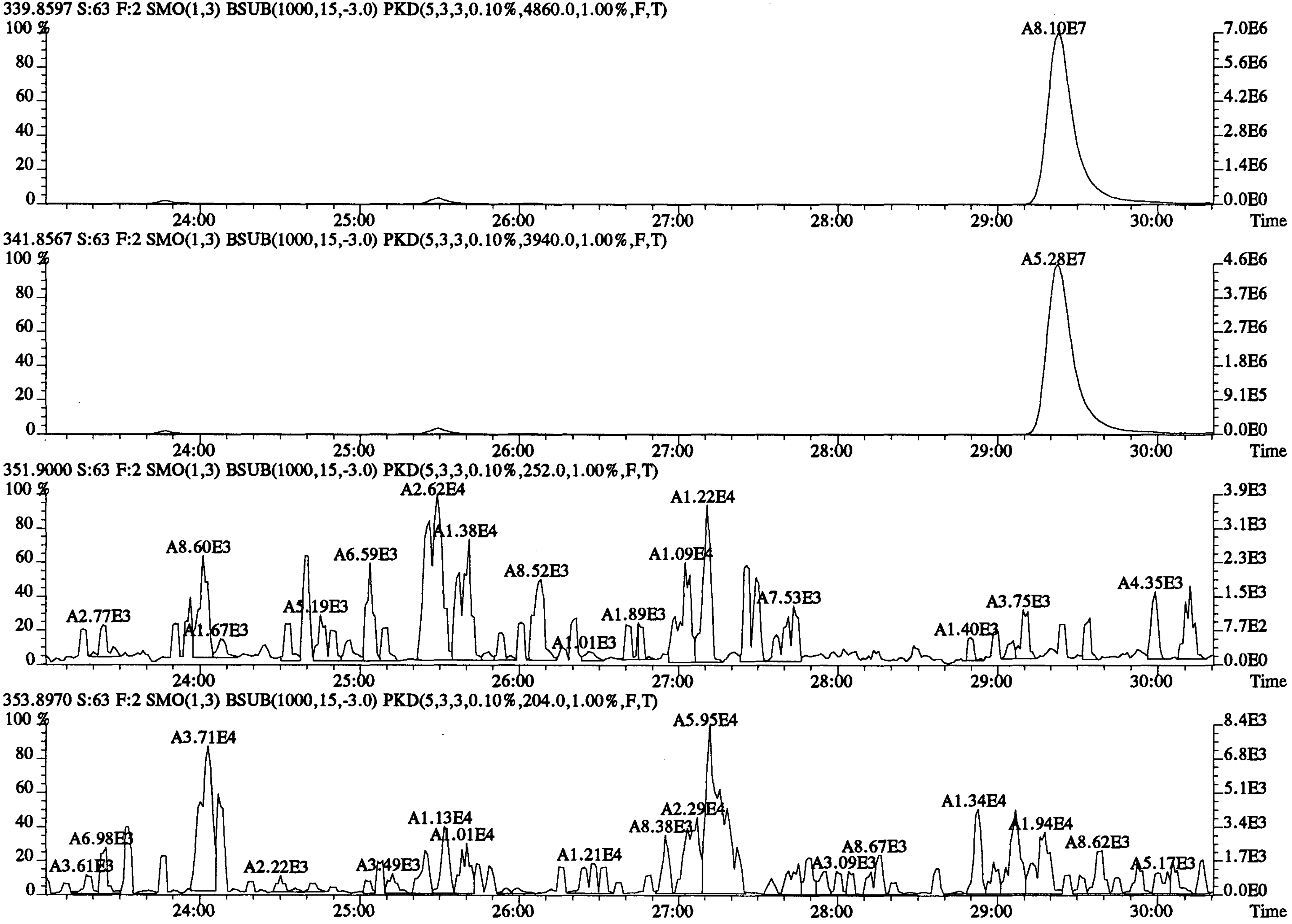
333.9339 S:63 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2100.0,1.00%,F,T)



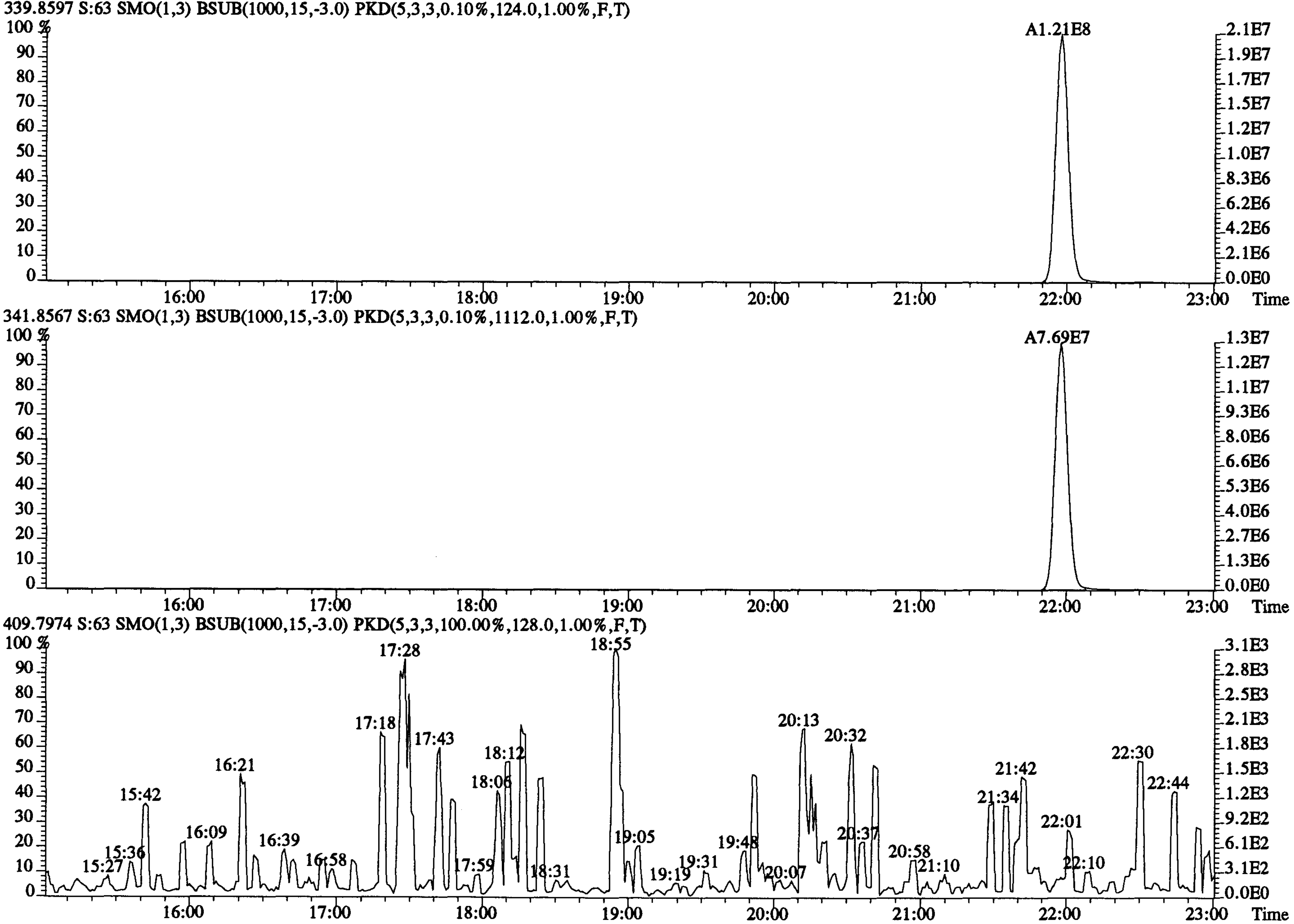
File:14OC104D5 #1-530 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES



File:14OC104D5 #1-470 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES



File:14OC104D5 #1-530 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES

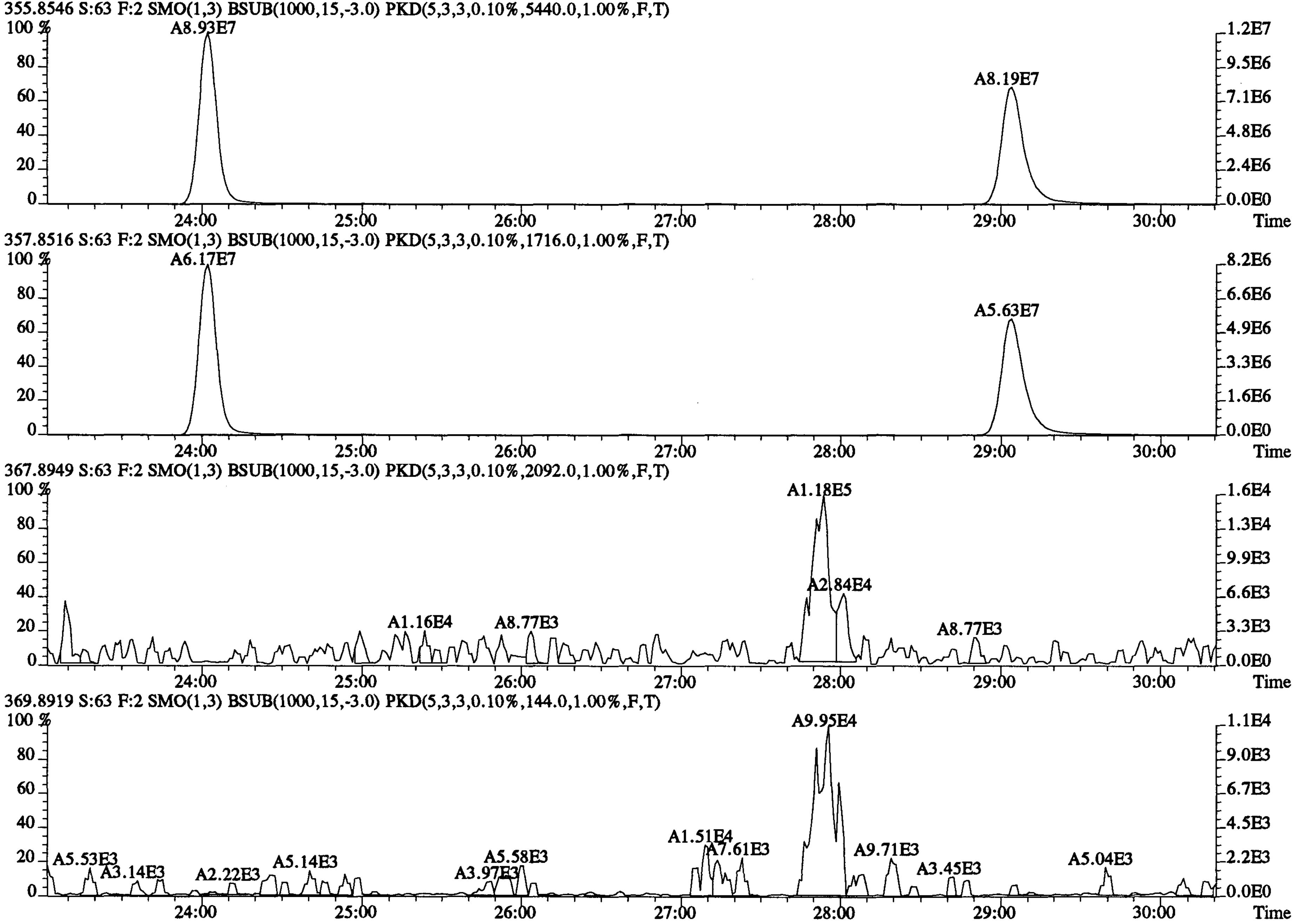


339.8597 S:63 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,124.0,1.00%,F,T)

341.8567 S:63 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1112.0,1.00%,F,T)

409.7974 S:63 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,128.0,1.00%,F,T)

File:14OC104D5 #1-470 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES



355.8546 S:63 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5440.0,1.00%,F,T)

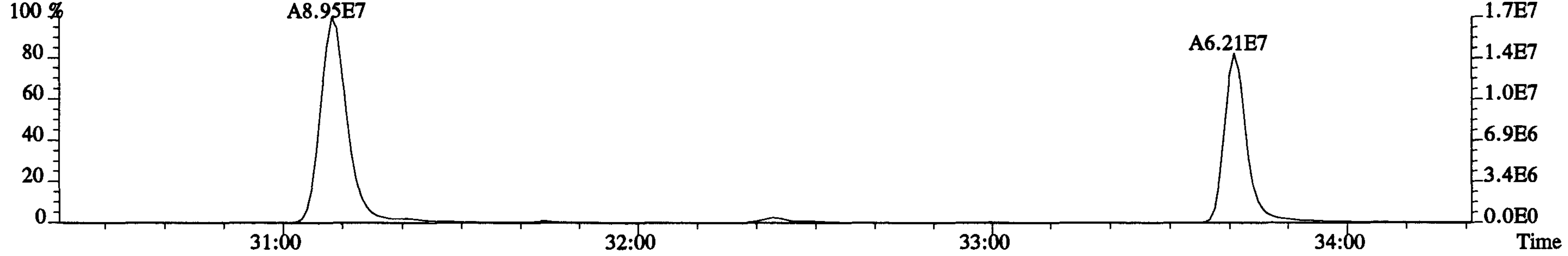
357.8516 S:63 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1716.0,1.00%,F,T)

367.8949 S:63 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2092.0,1.00%,F,T)

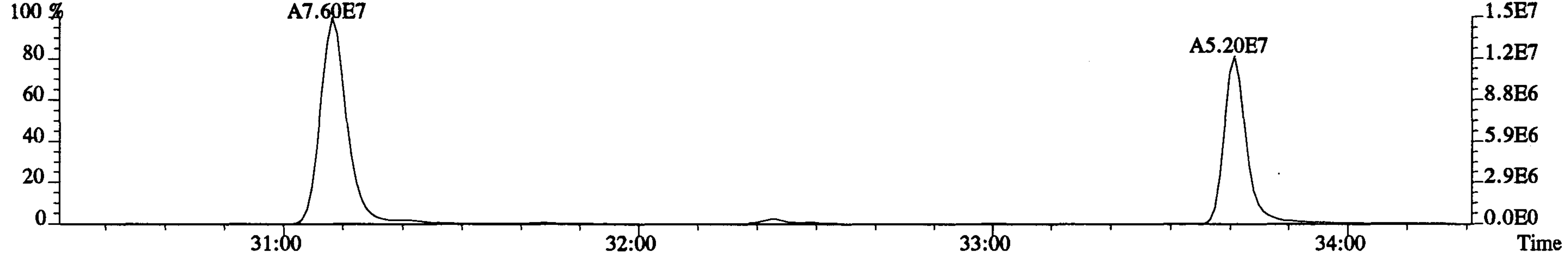
369.8919 S:63 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,144.0,1.00%,F,T)

File:14OC104D5 #1-287 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES

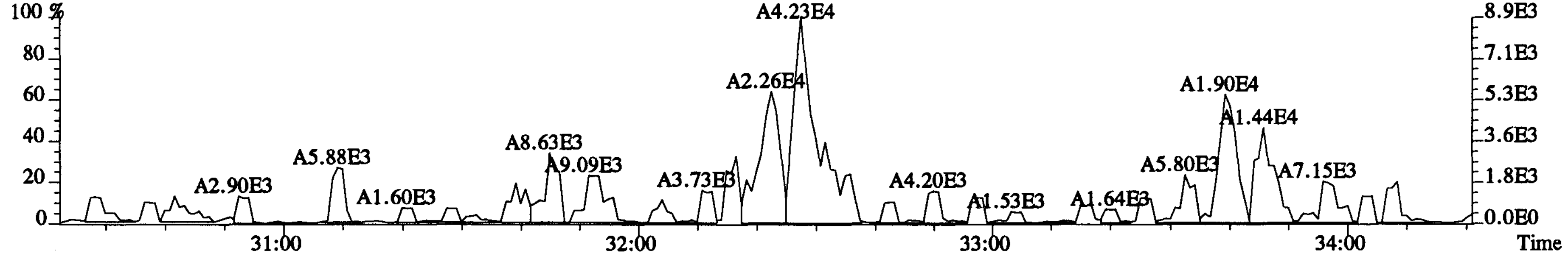
373.8208 S:63 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1596.0,1.00%,F,T)



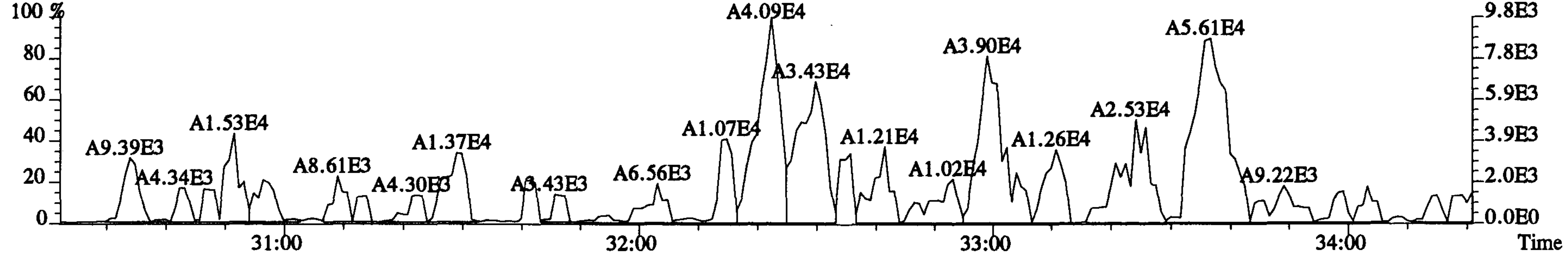
375.8178 S:63 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)



383.8639 S:63 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,140.0,1.00%,F,T)

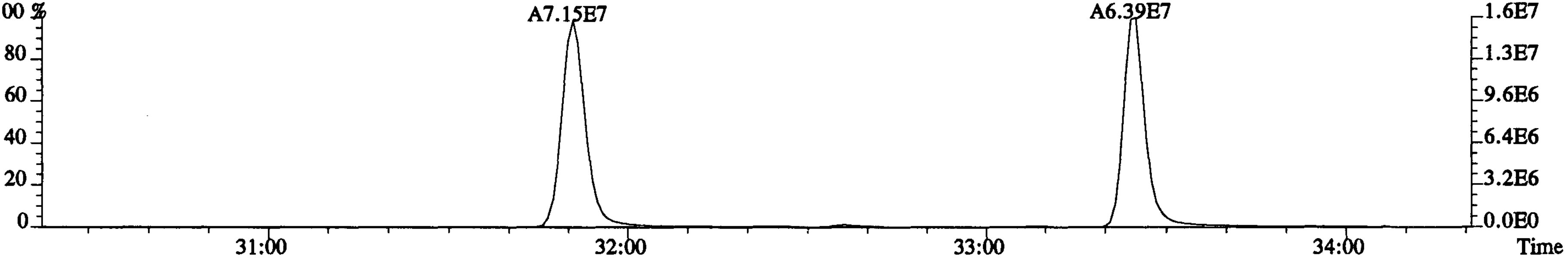


385.8610 S:63 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,176.0,1.00%,F,T)

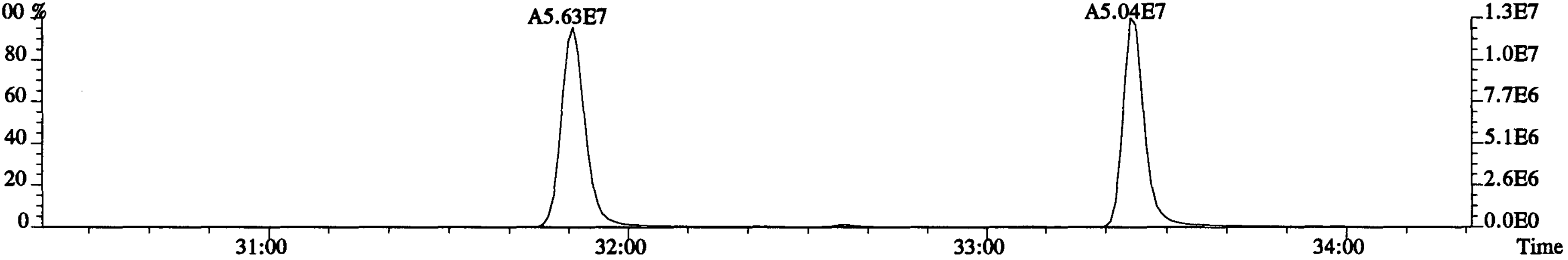


File:14OC104D5 #1-287 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES

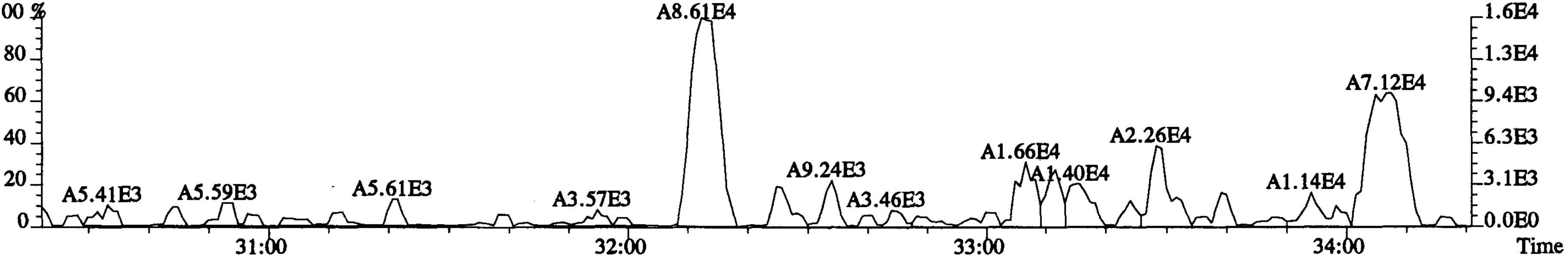
389.8157 S:63 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2596.0,1.00%,F,T)



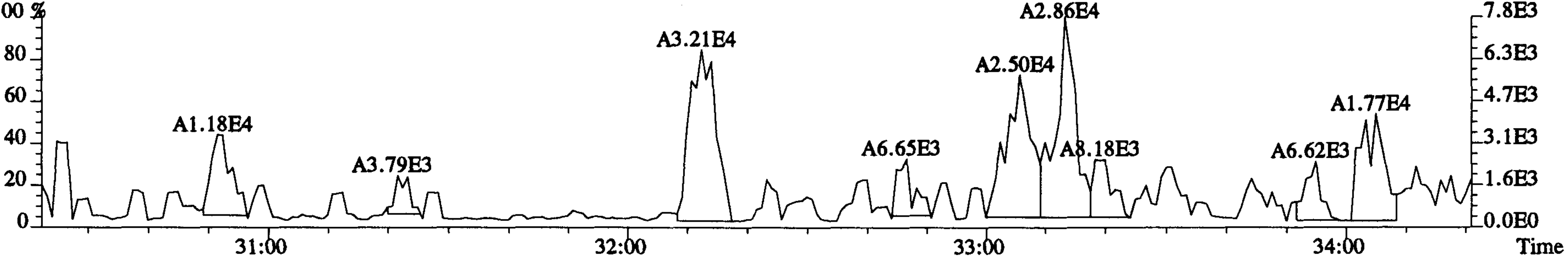
391.8127 S:63 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5508.0,1.00%,F,T)



401.8559 S:63 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,172.0,1.00%,F,T)

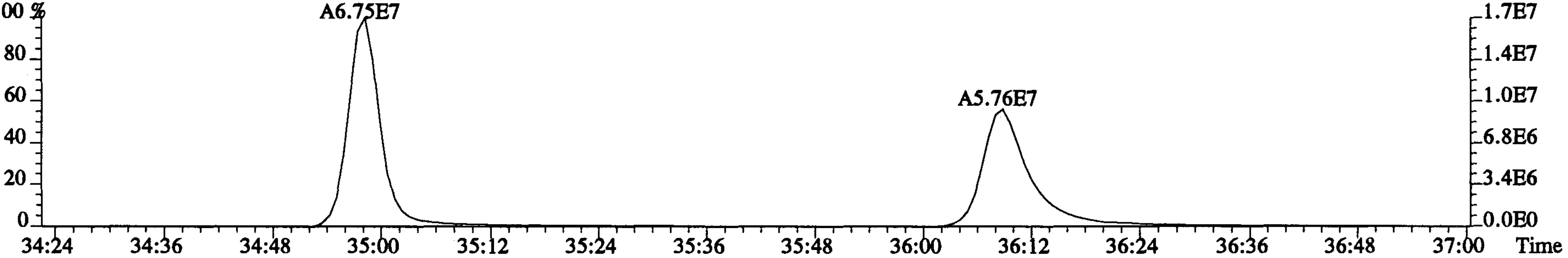


403.8529 S:63 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1172.0,1.00%,F,T)

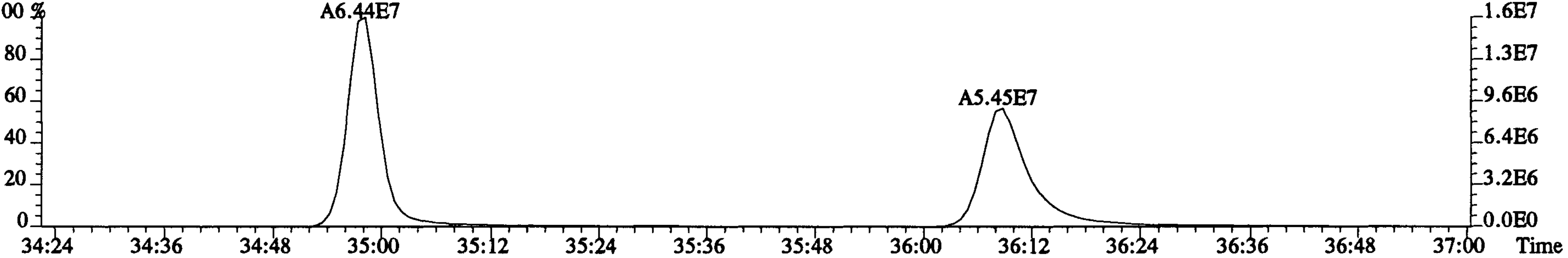


File:14OC104D5 #1-200 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES

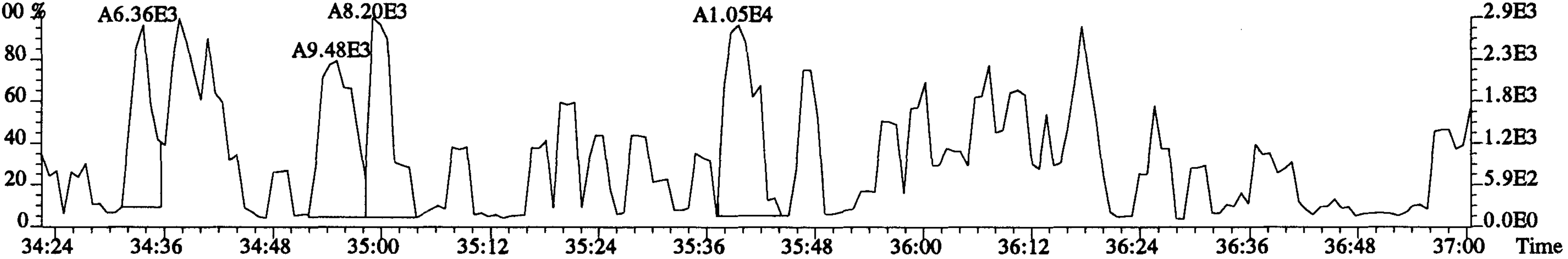
407.7818 S:63 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17304.0,1.00%,F,T)



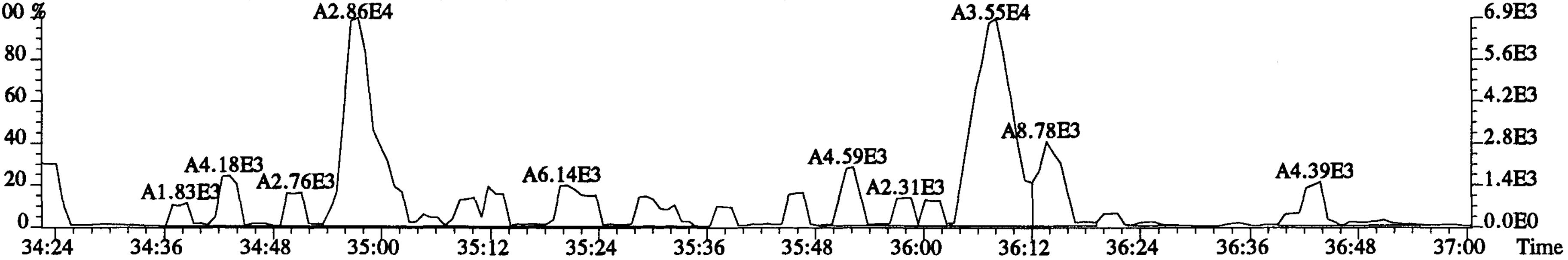
409.7789 S:63 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13872.0,1.00%,F,T)



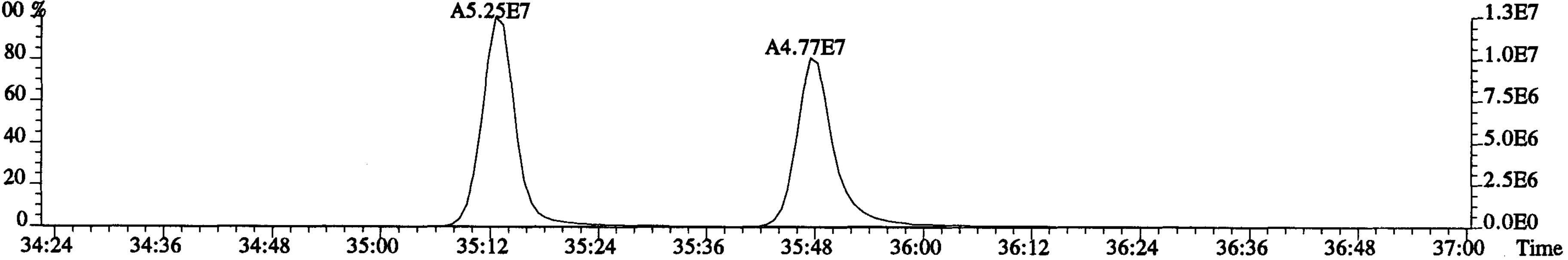
417.8253 S:63 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1392.0,1.00%,F,T)



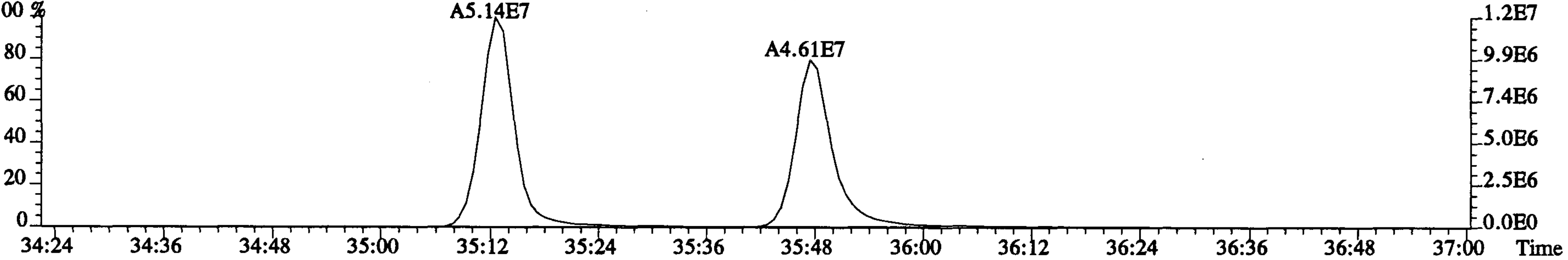
419.8220 S:63 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,120.0,1.00%,F,T)



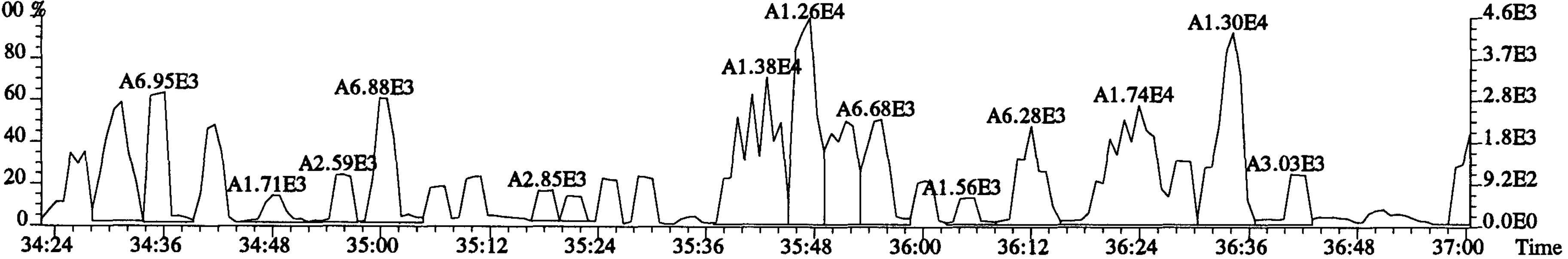
File:14OC104D5 #1-200 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES
423.7766 S:63 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2668.0,1.00%,F,T)



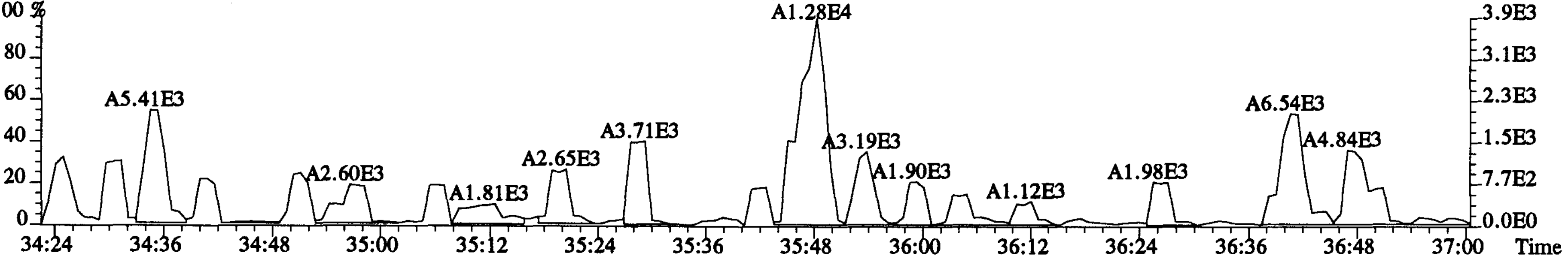
425.7737 S:63 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3208.0,1.00%,F,T)



435.8169 S:63 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,196.0,1.00%,F,T)

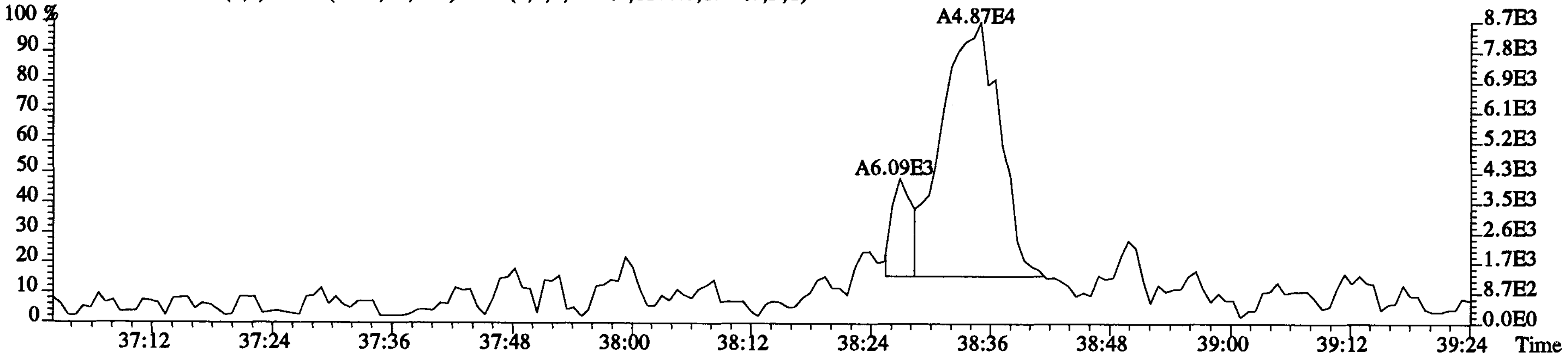


437.8140 S:63 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,88.0,1.00%,F,T)

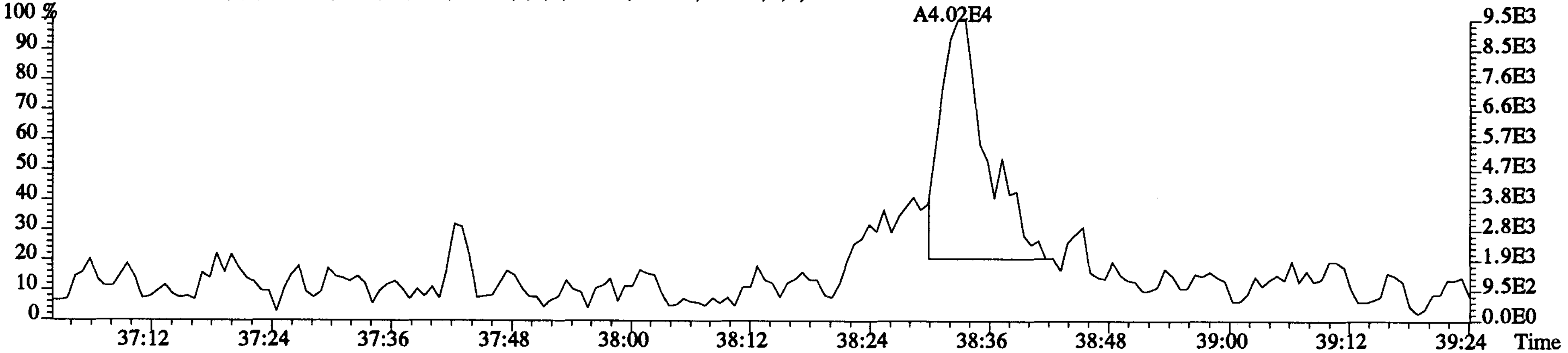


File:14OC104D5 #1-192 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES

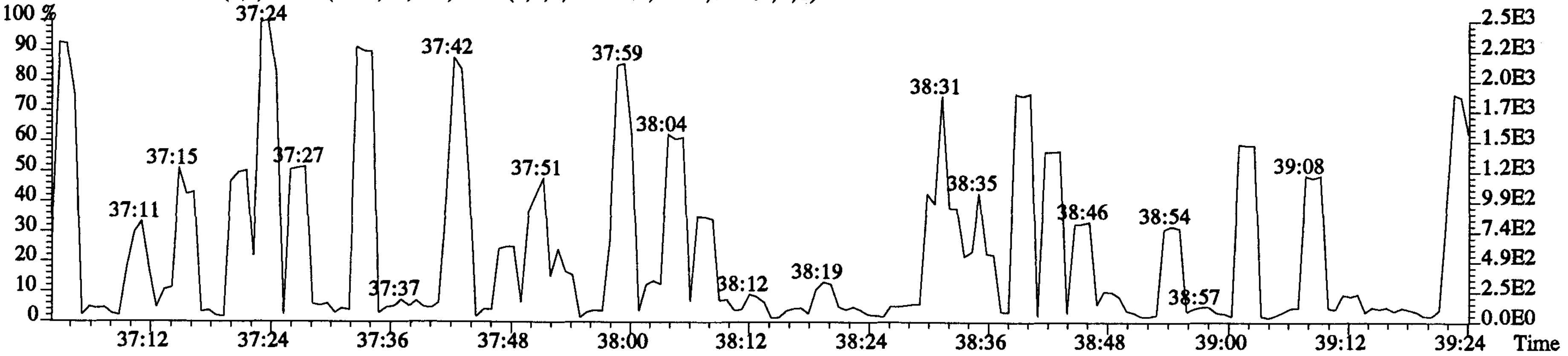
441.7428 S:63 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1168.0,1.00%,F,T)



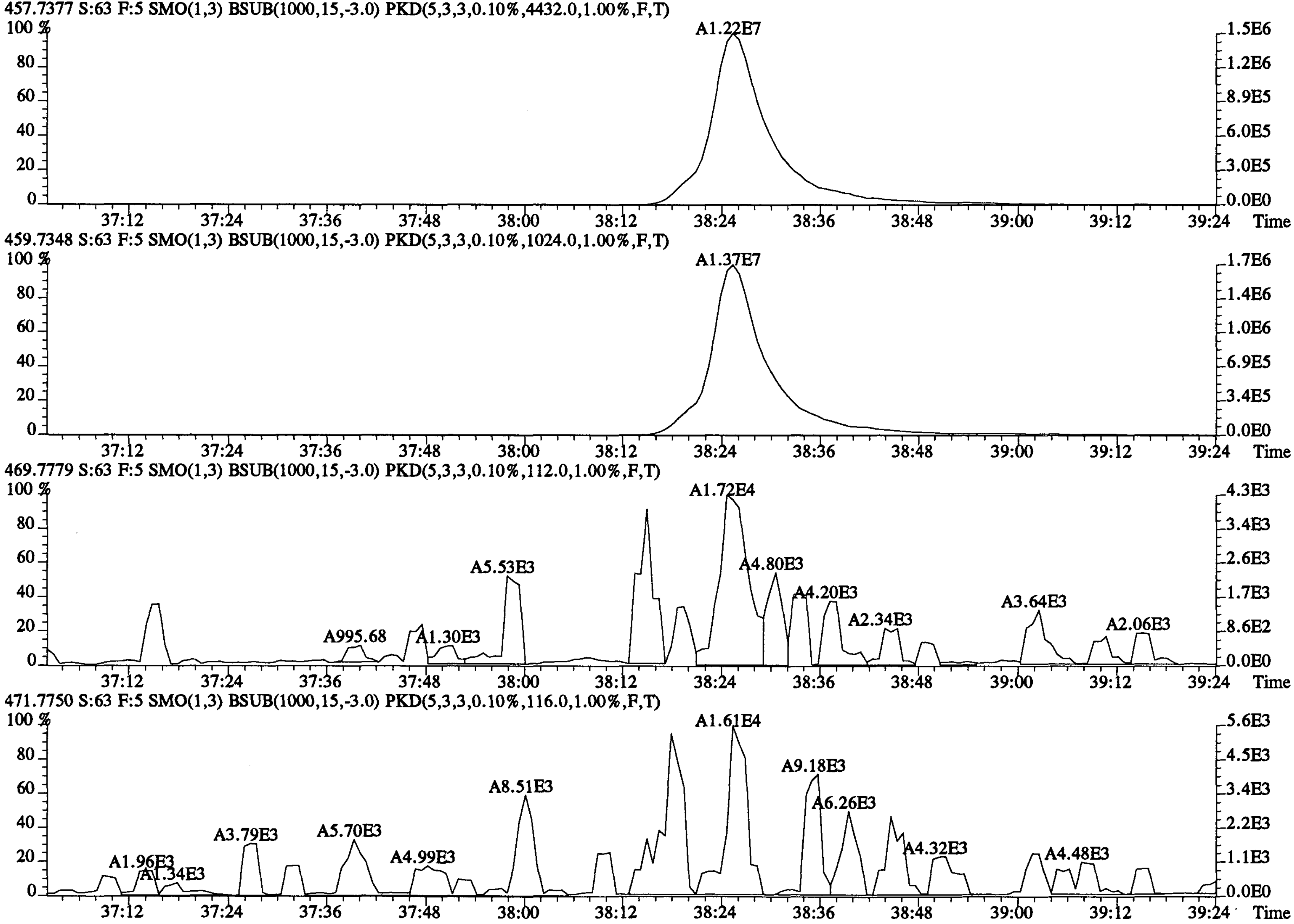
443.7399 S:63 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1452.0,1.00%,F,T)



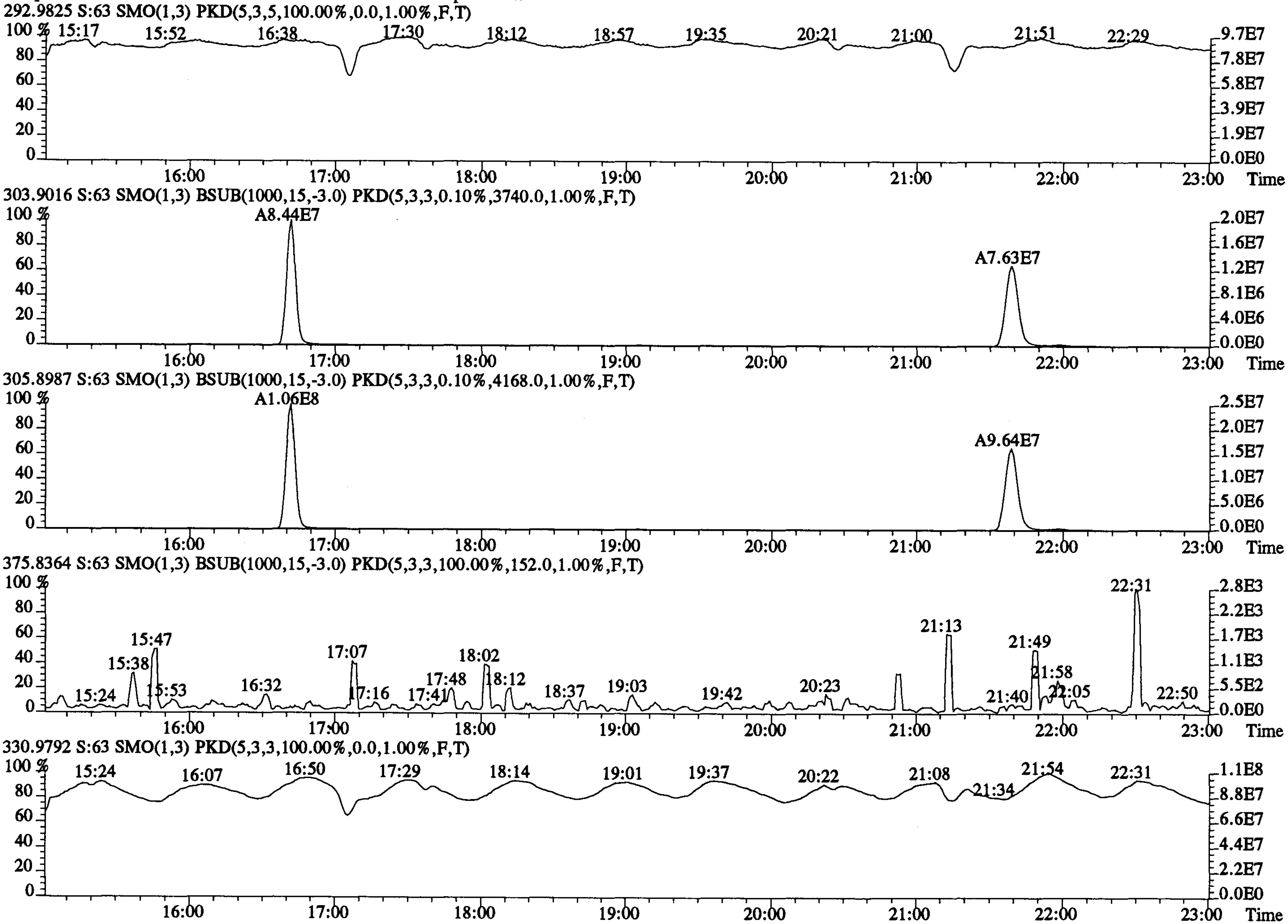
513.6775 S:63 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,116.0,1.00%,F,T)



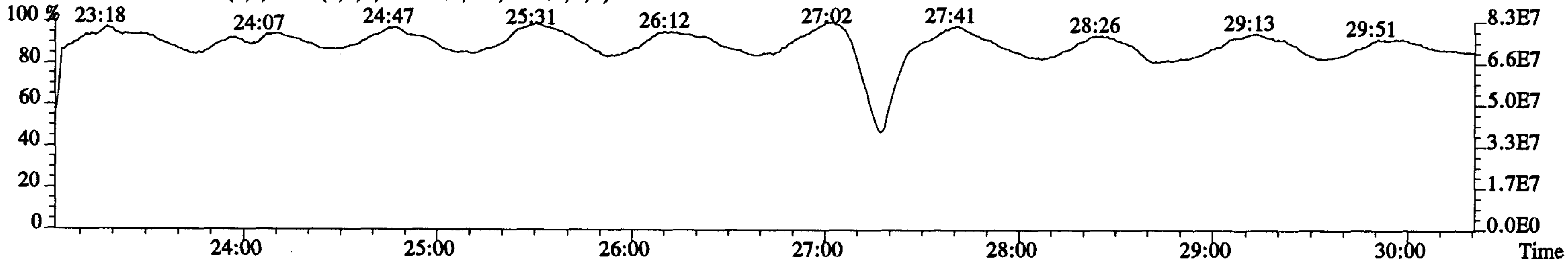
File:14OC104D5 #1-192 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES



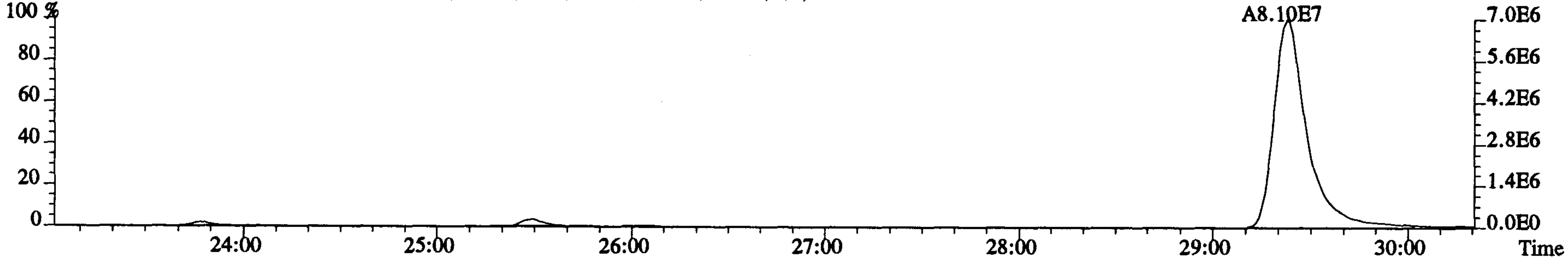
File:14OC104D5 #1-530 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES



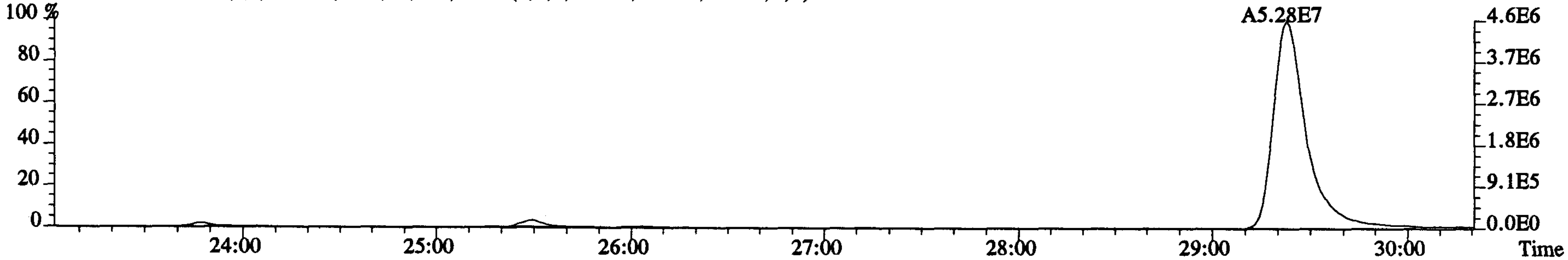
File:14OC104D5 #1-470 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES
342.9792 S:63 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



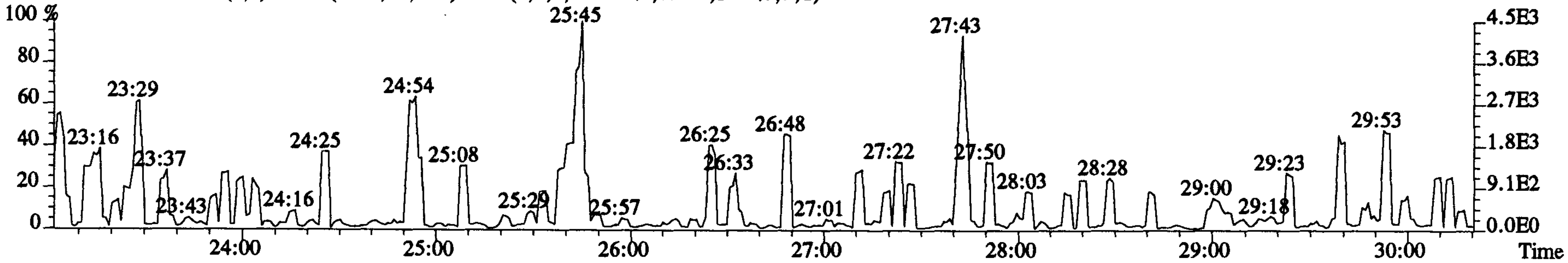
339.8597 S:63 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4860.0,1.00%,F,T)



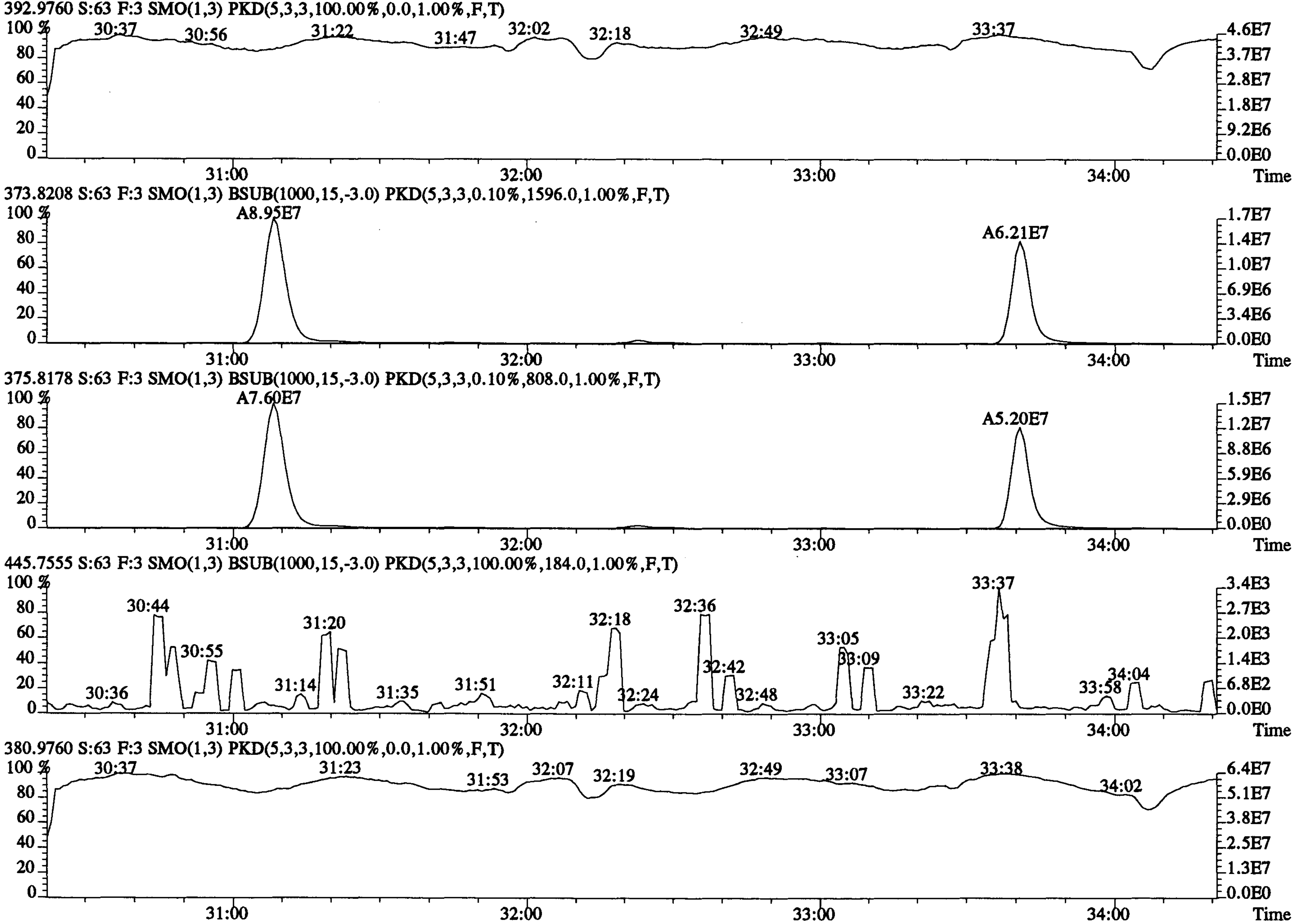
341.8567 S:63 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3940.0,1.00%,F,T)

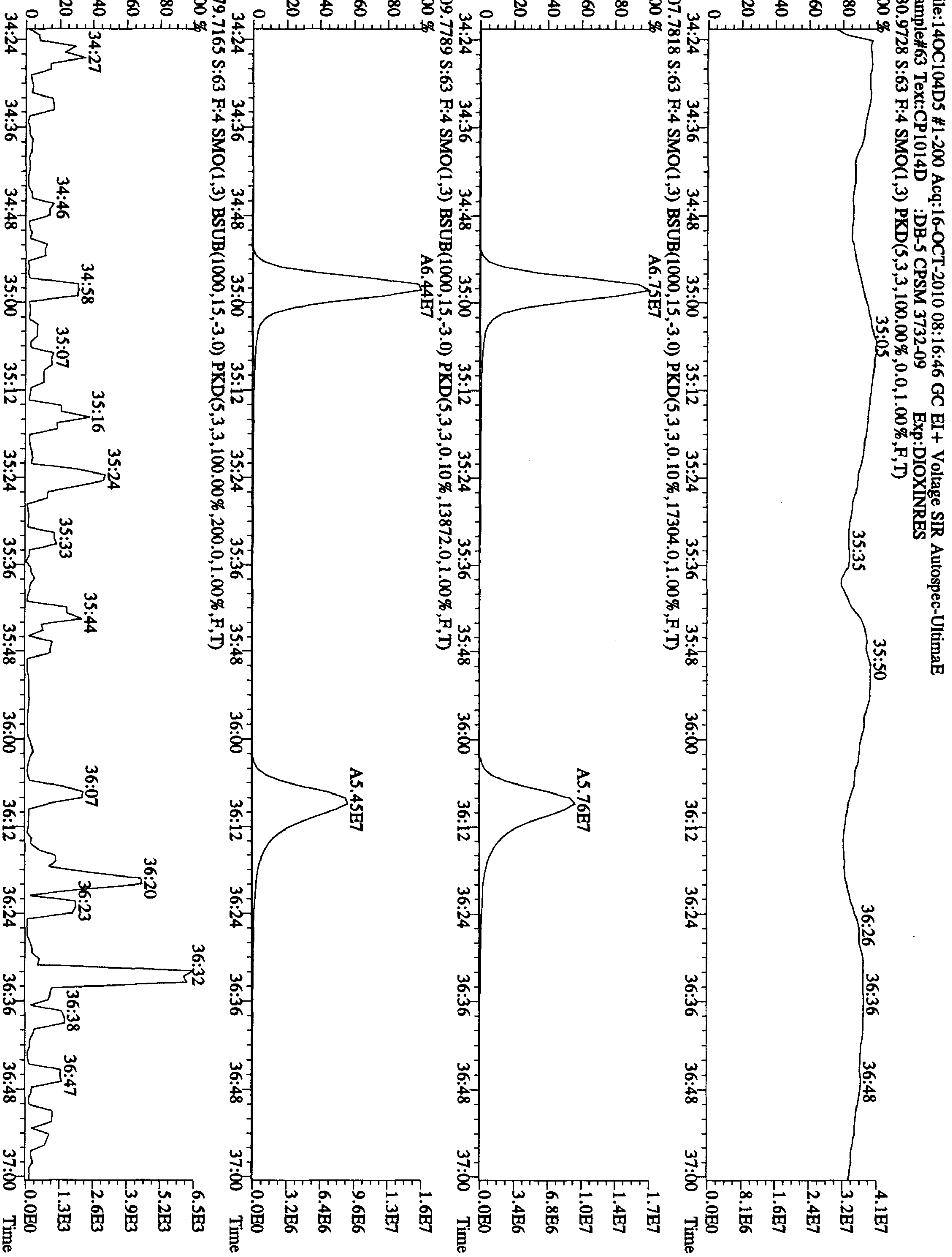


409.7974 S:63 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,132.0,1.00%,F,T)



File:14OC104D5 #1-287 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES

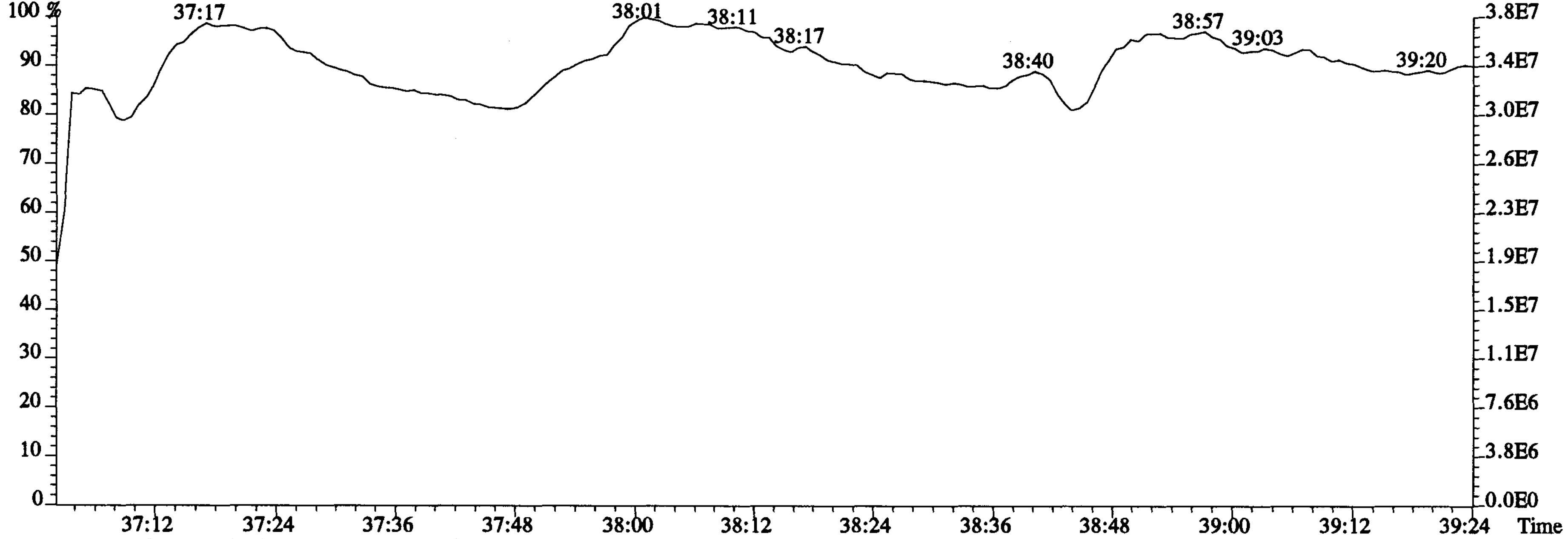




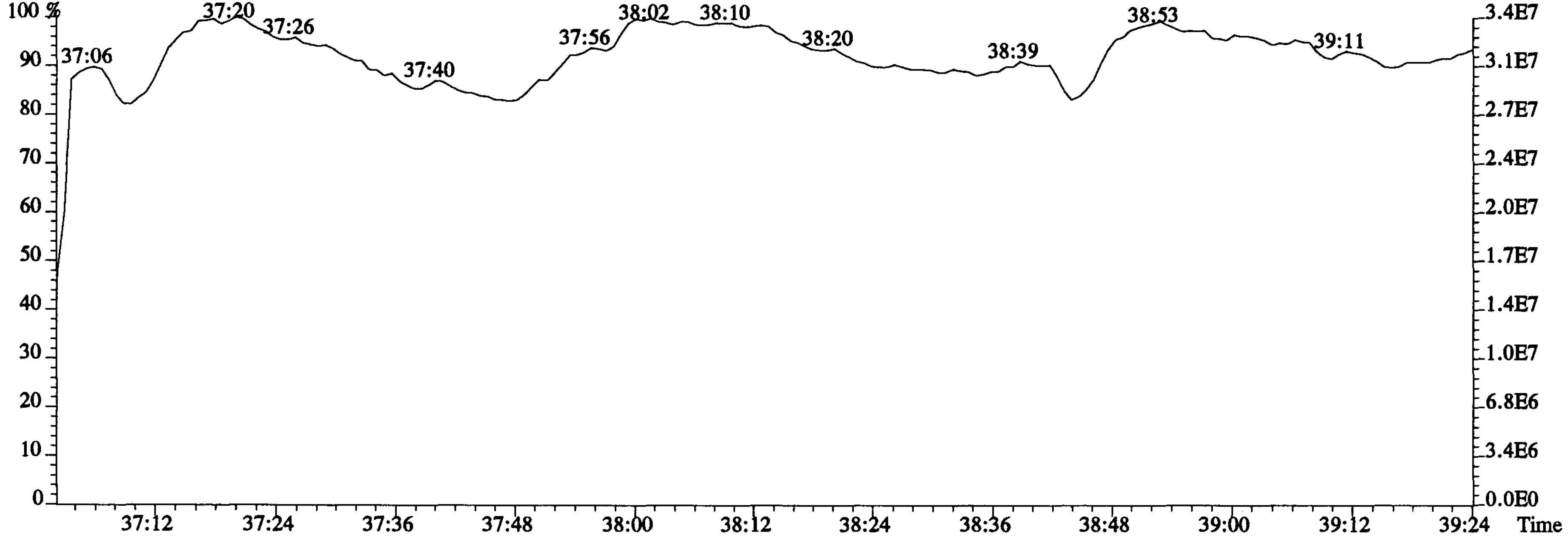
File:14OC104D5 #1-200 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES
430.9728 S:63 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
35:05
35:35
35:50
36:26
36:36
36:48
4.1E7
3.2E7
2.4E7
1.6E7
8.1E6
0.0E0
407.7818 S:63 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17304.0,1.00%,F,T)
A6.75E7
A5.76E7
1.7E7
1.4E7
1.0E7
6.8E6
3.4E6
0.0E0
409.7789 S:63 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13872.0,1.00%,F,T)
A6.44E7
A5.45E7
1.6E7
1.3E7
9.6E6
6.4E6
3.2E6
0.0E0
479.7165 S:63 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,200.0,1.00%,F,T)
34:27
34:46
34:58
35:07
35:16
35:24
35:33
35:44
36:07
36:20
36:23
36:32
36:38
36:47
6.5E3
5.2E3
3.9E3
2.6E3
1.3E3
0.0E0
100 %
80
60
40
20
0
34:24
34:36
34:48
35:00
35:12
35:24
35:36
35:48
36:00
36:12
36:24
36:36
36:48
37:00
Time

File:14OC104D5 #1-192 Acq:16-OCT-2010 08:16:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#63 Text:CP1014D :DB-5 CPSM 3732-09 Exp:DIOXINRES

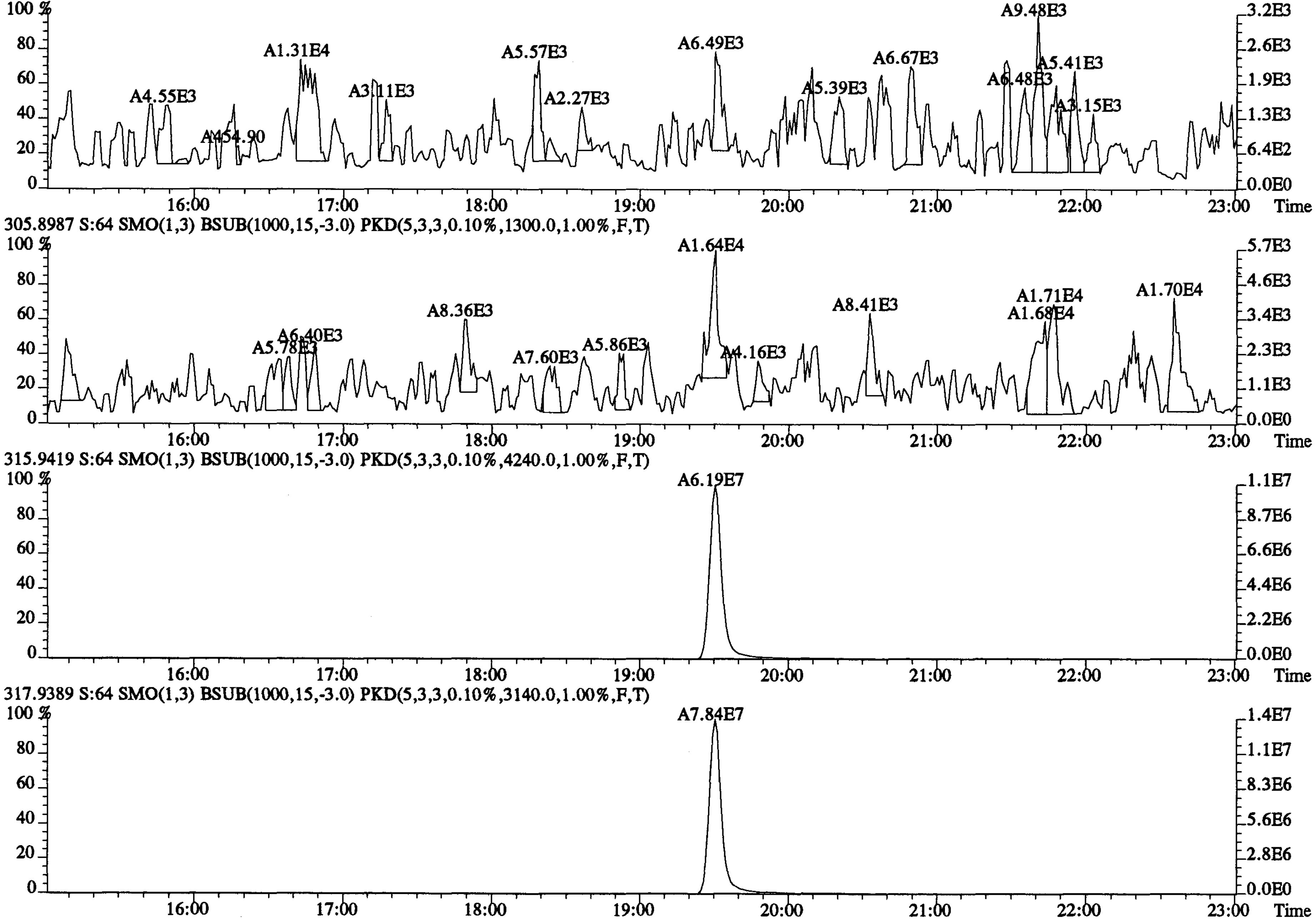
454.9728 S:63 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:63 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:14OC104D5 #1-530 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES



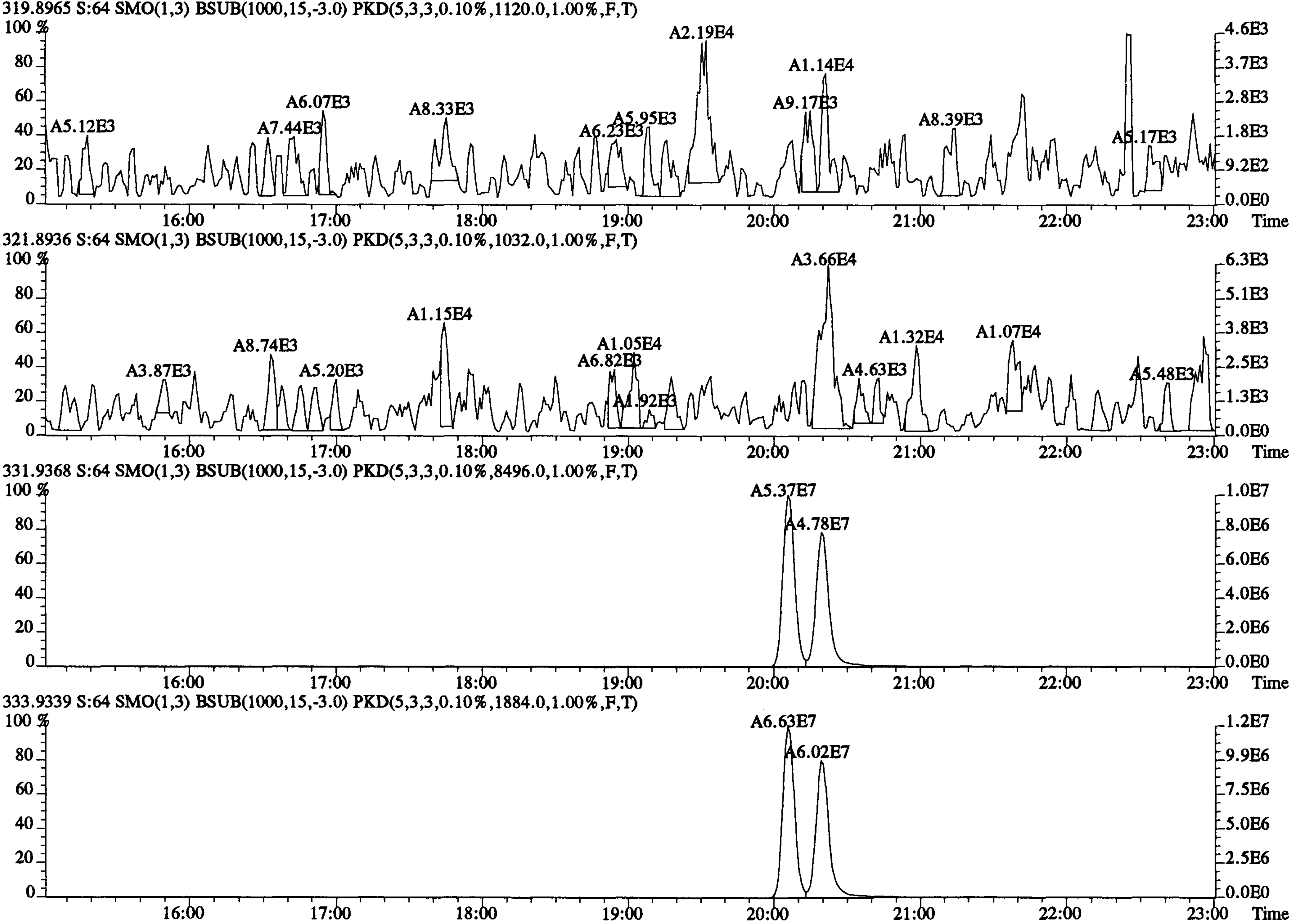
303.9016 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,836.0,1.00%,F,T)

305.8987 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1300.0,1.00%,F,T)

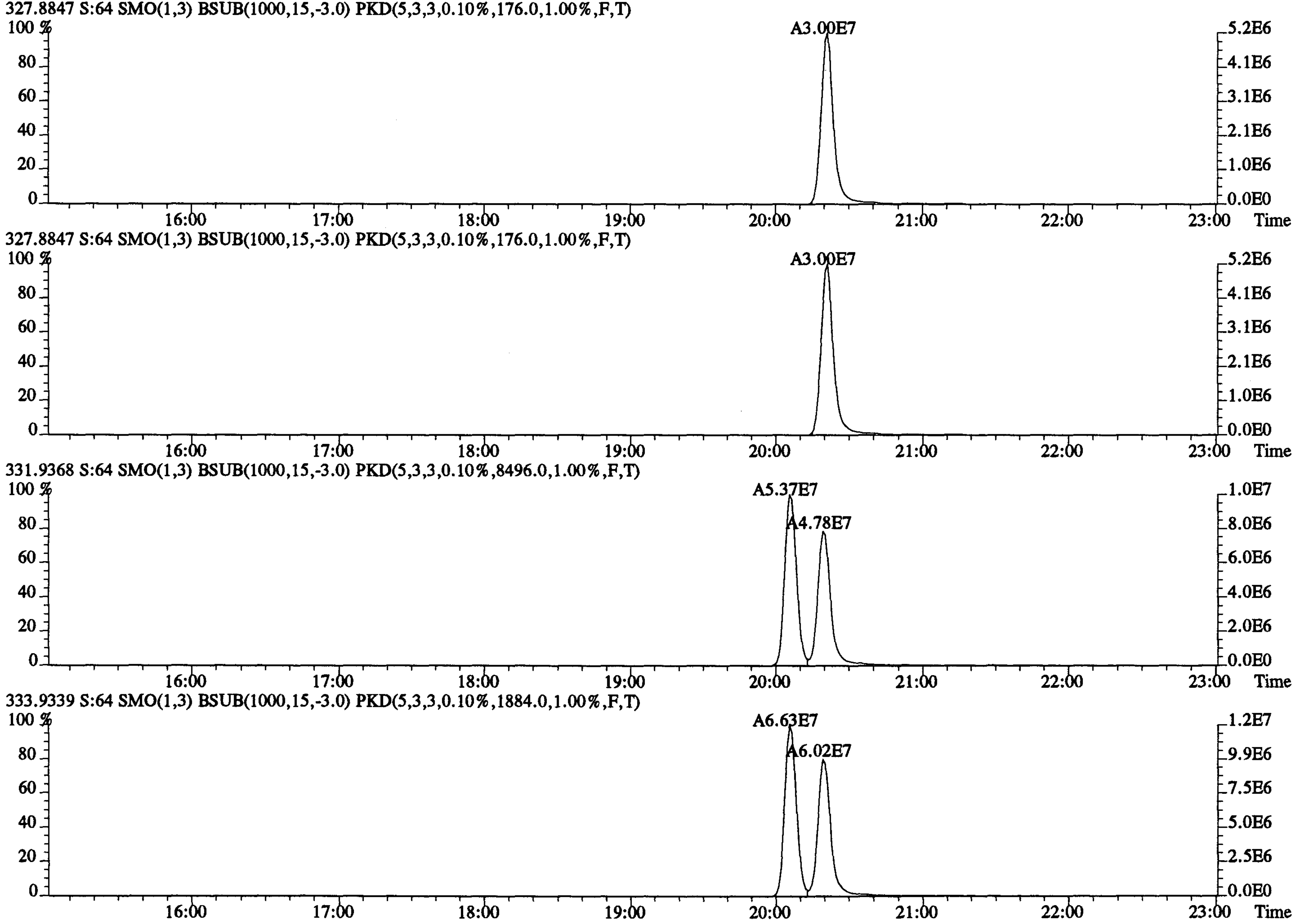
315.9419 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4240.0,1.00%,F,T)

317.9389 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3140.0,1.00%,F,T)

File:14OC104D5 #1-530 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES



File:14OC104D5 #1-530 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES



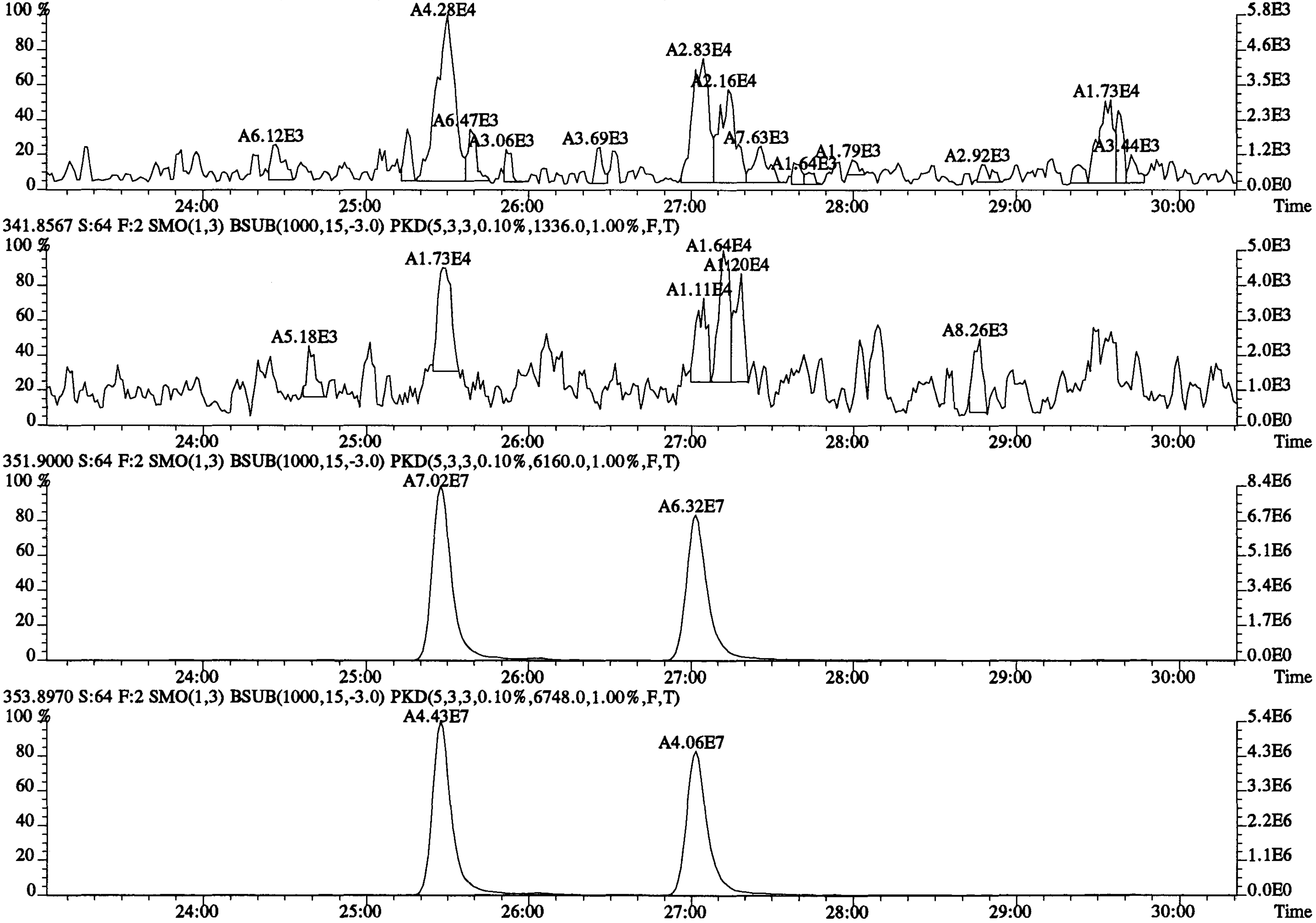
327.8847 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,176.0,1.00%,F,T)

327.8847 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,176.0,1.00%,F,T)

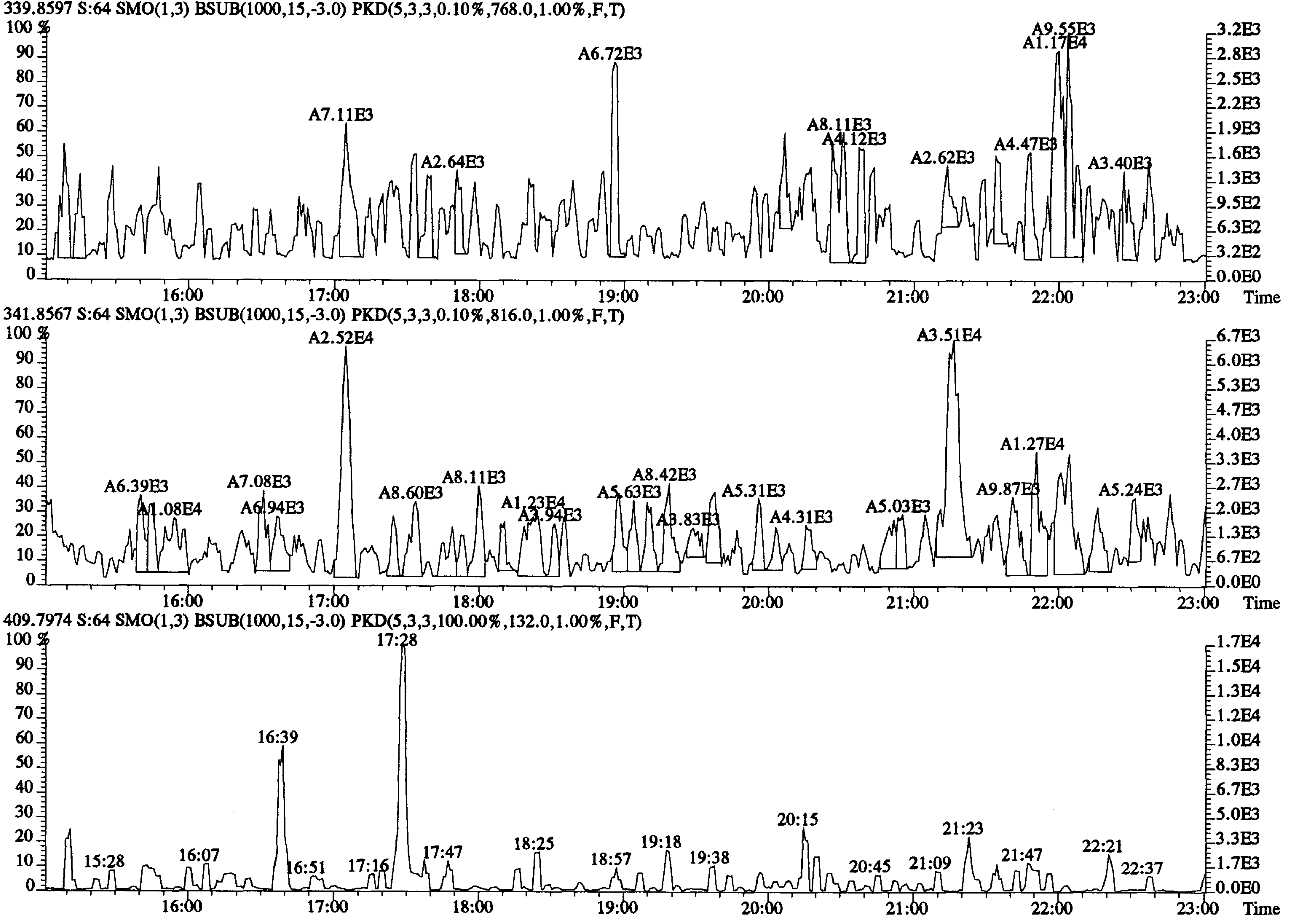
331.9368 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8496.0,1.00%,F,T)

333.9339 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1884.0,1.00%,F,T)

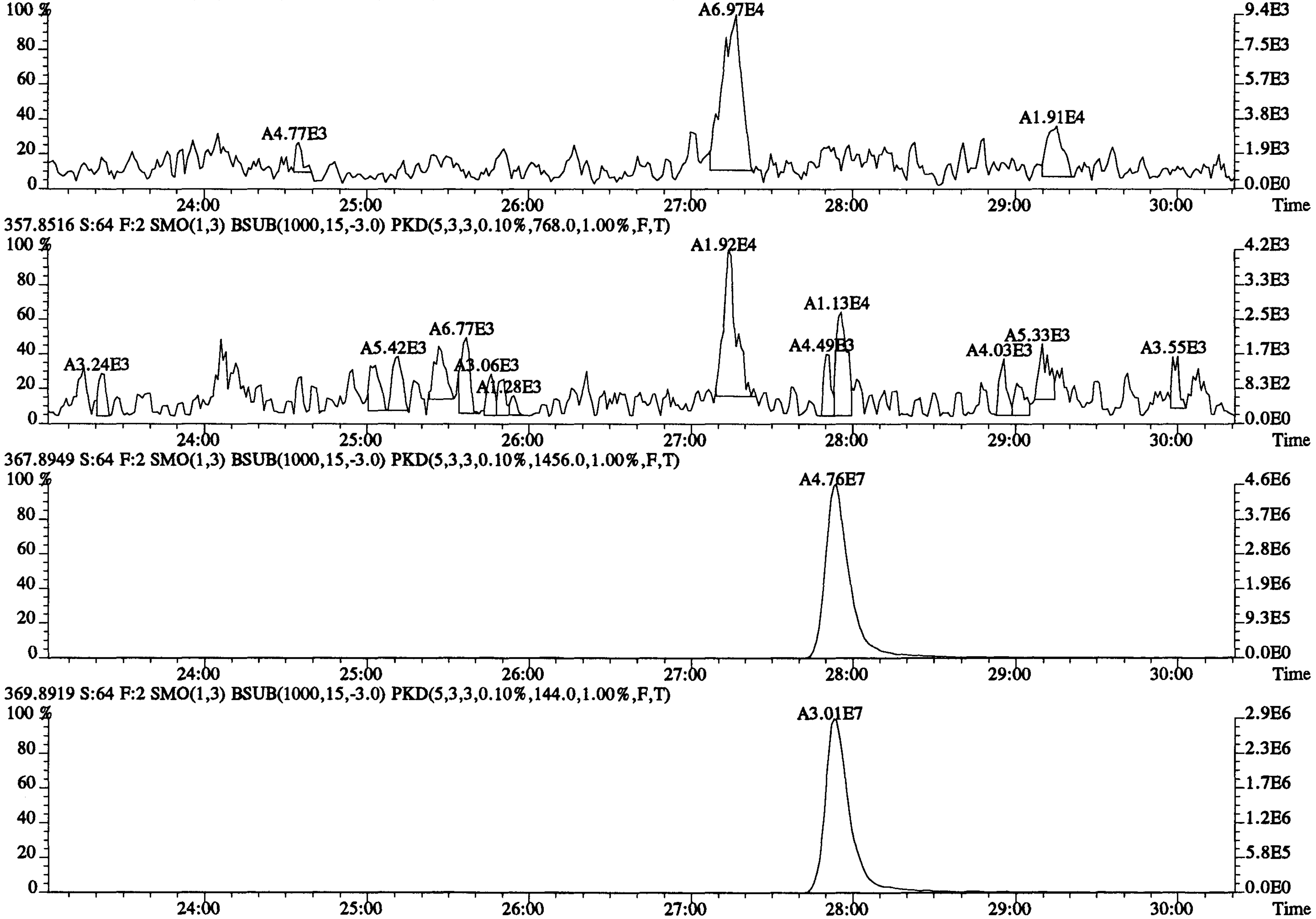
File:14OC104D5 #1-470 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES
339.8597 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,592.0,1.00%,F,T)



File:14OC104D5 #1-530 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES



File:14OC104D5 #1-470 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES



355.8546 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1332.0,1.00%,F,T)

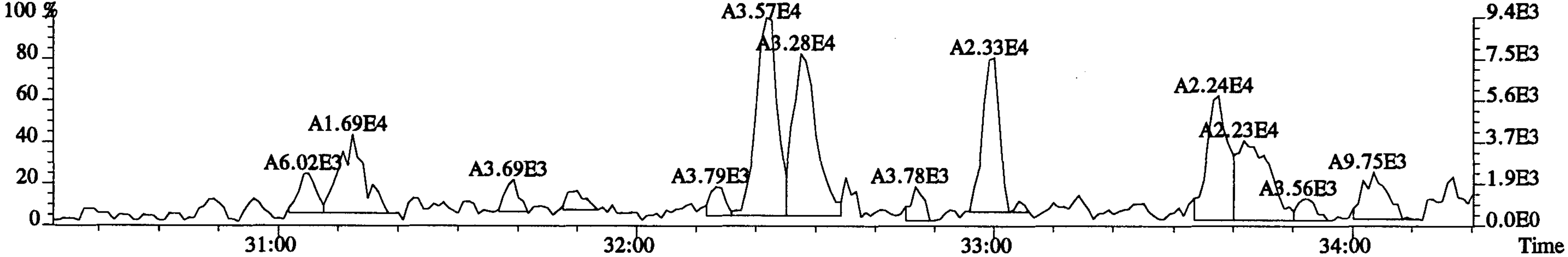
357.8516 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,768.0,1.00%,F,T)

367.8949 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1456.0,1.00%,F,T)

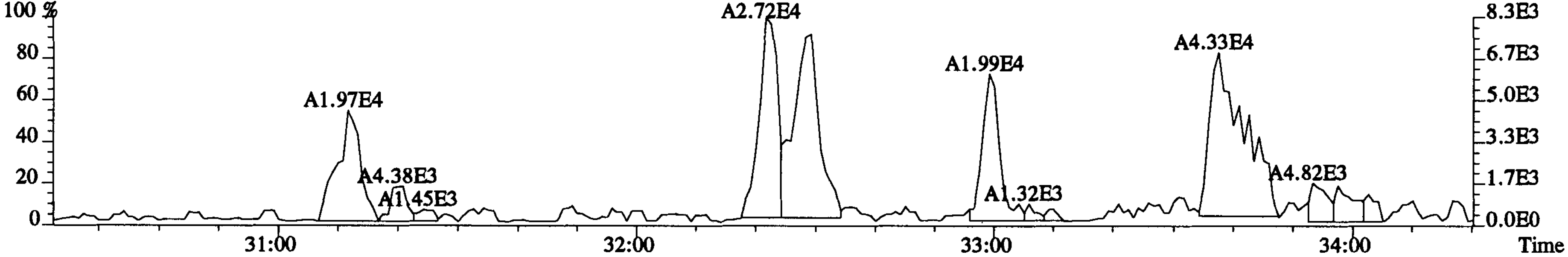
369.8919 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,144.0,1.00%,F,T)

File:14OC104D5 #1-286 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

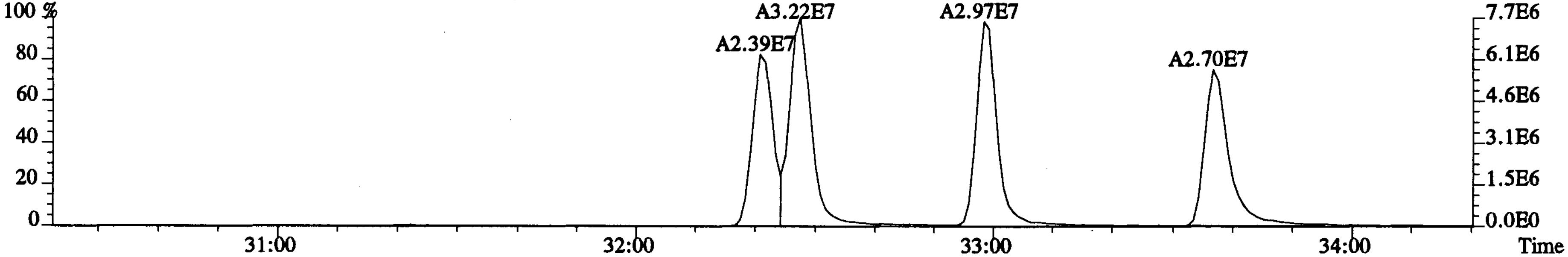
373.8208 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,920.0,1.00%,F,T)



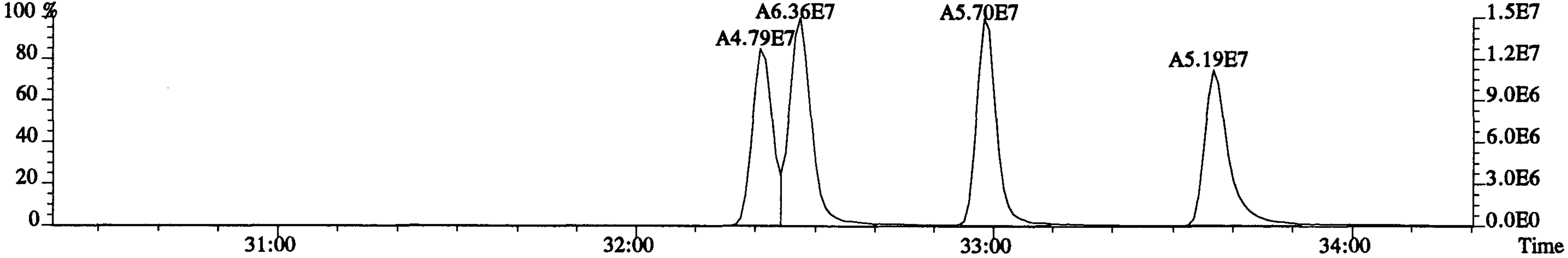
375.8178 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,812.0,1.00%,F,T)



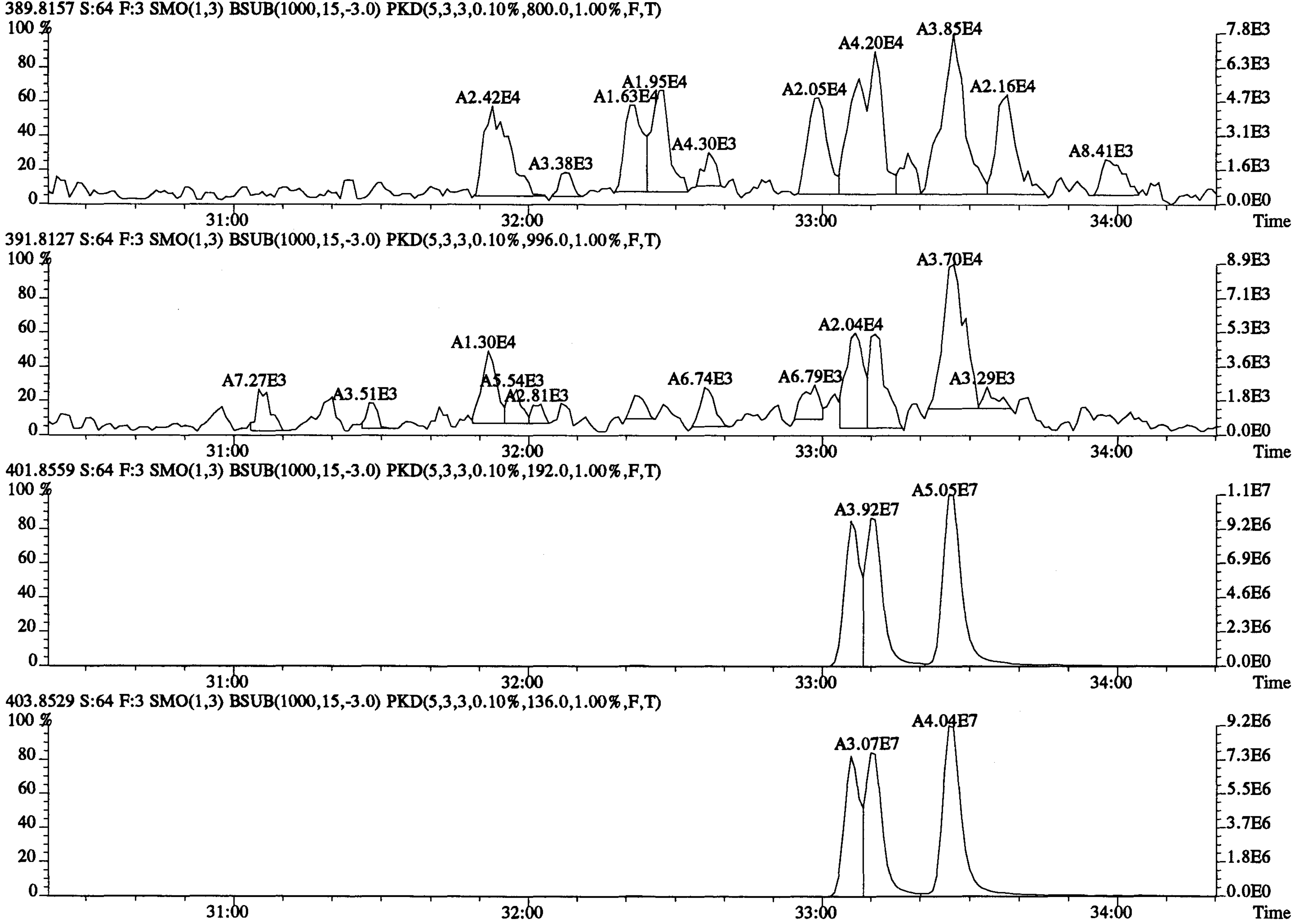
383.8639 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2340.0,1.00%,F,T)



385.8610 S:64 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2800.0,1.00%,F,T)

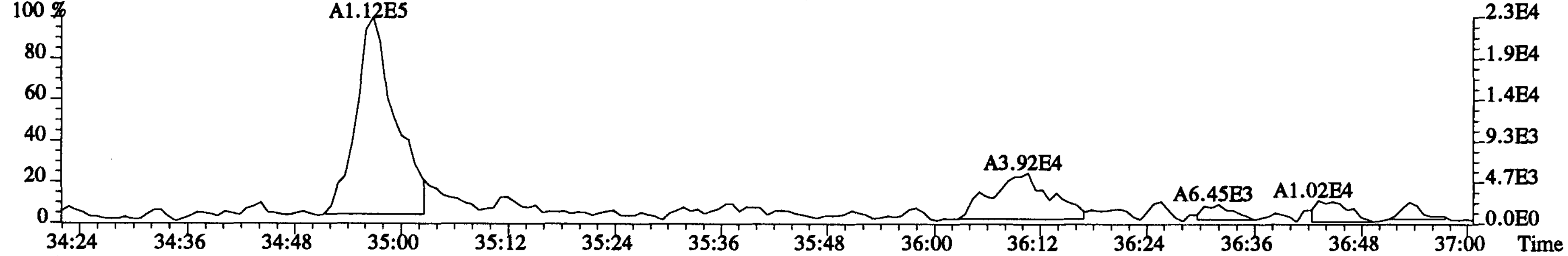


File:14OC104D5 #1-286 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

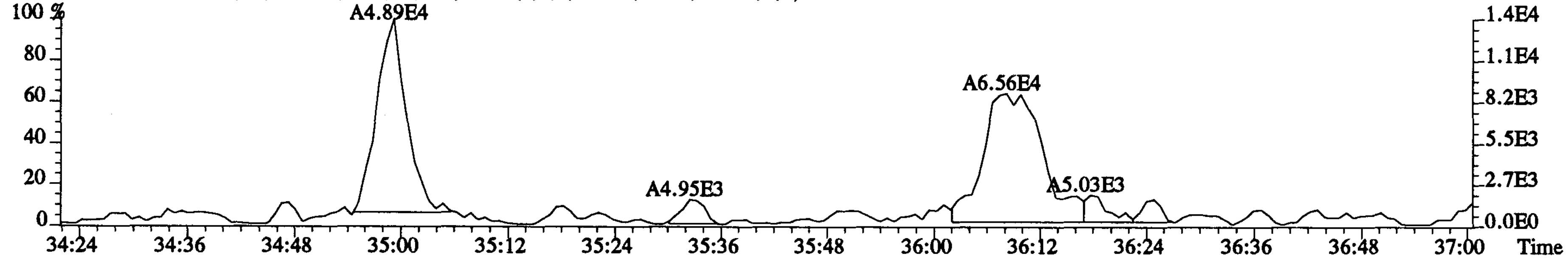


File:14OC104D5 #1-201 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

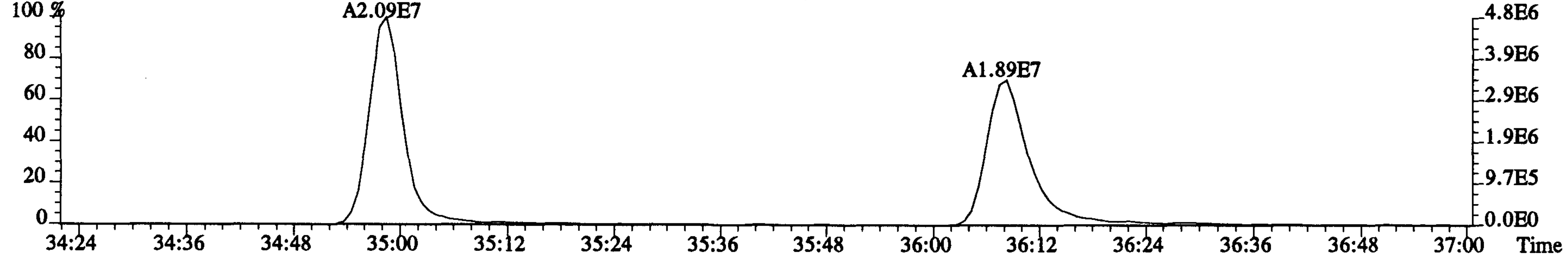
407.7818 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1536.0,1.00%,F,T)



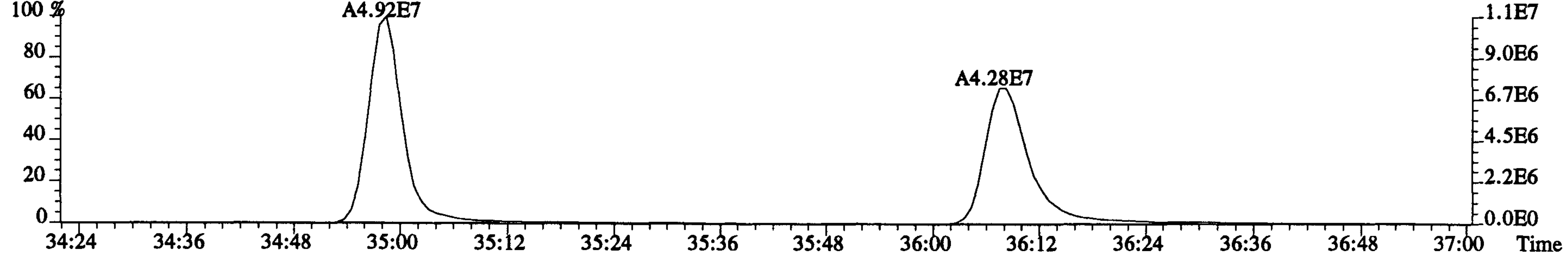
409.7789 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,944.0,1.00%,F,T)



417.8253 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8112.0,1.00%,F,T)

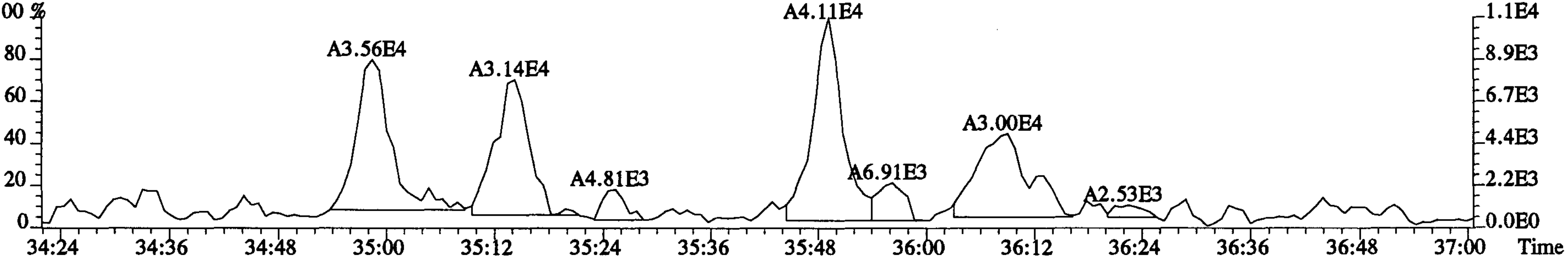


419.8220 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17916.0,1.00%,F,T)

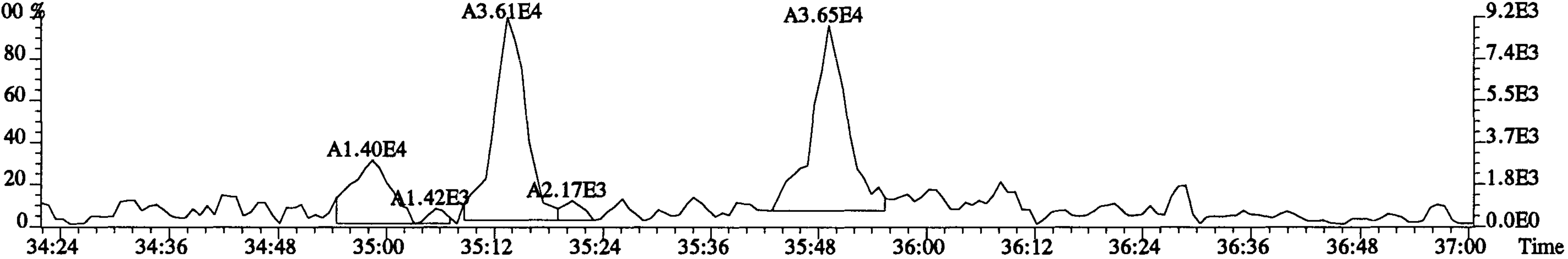


File:14OC104D5 #1-201 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

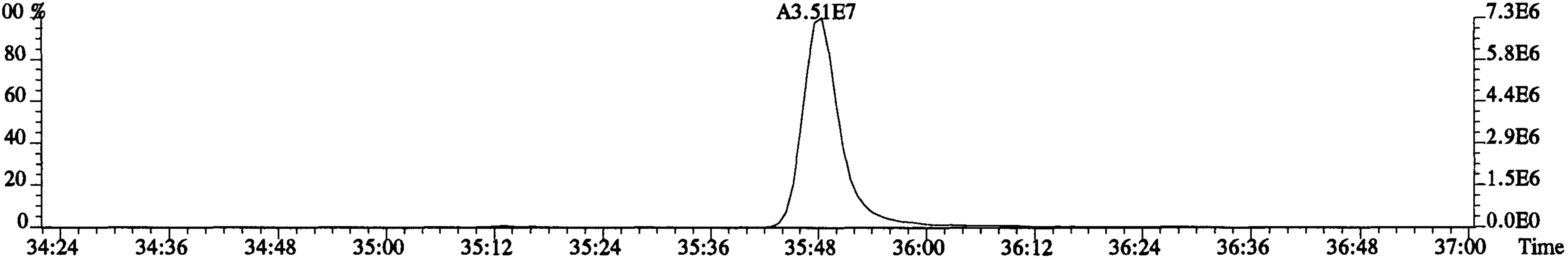
423.7766 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1104.0,1.00%,F,T)



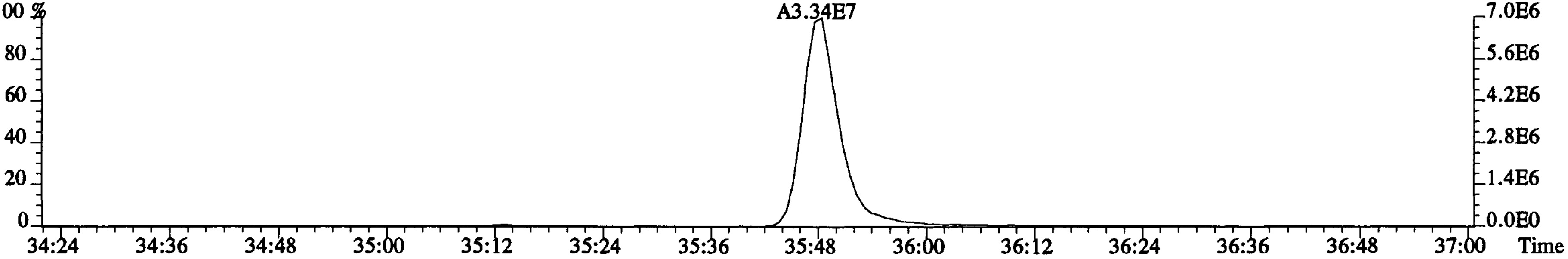
425.7737 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1240.0,1.00%,F,T)



435.8169 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5388.0,1.00%,F,T)

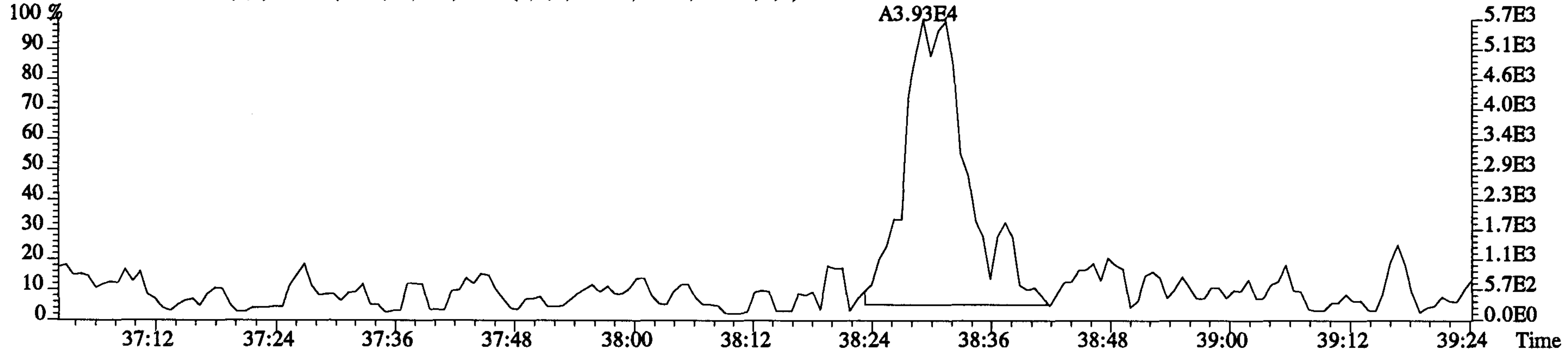


437.8140 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8152.0,1.00%,F,T)

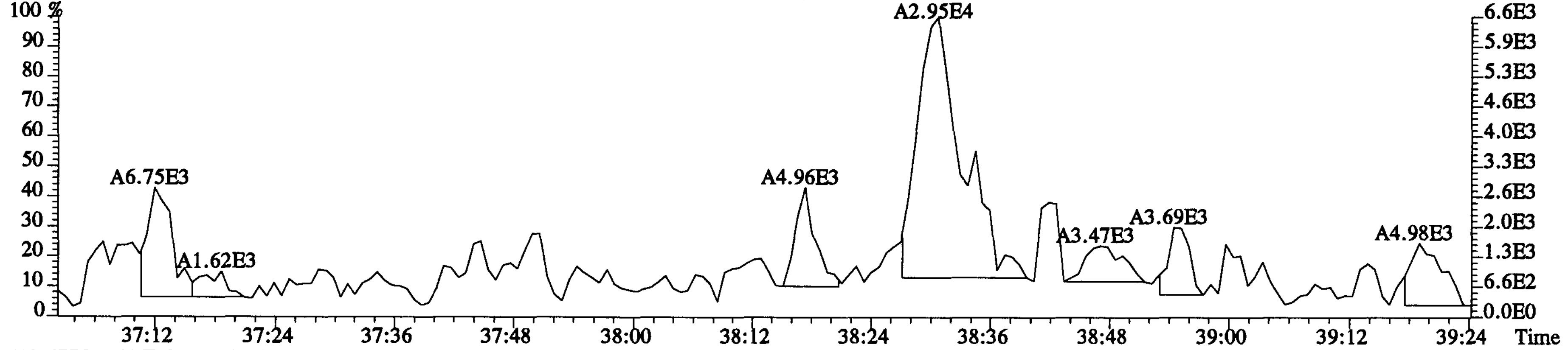


File:14OC104D5 #1-192 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

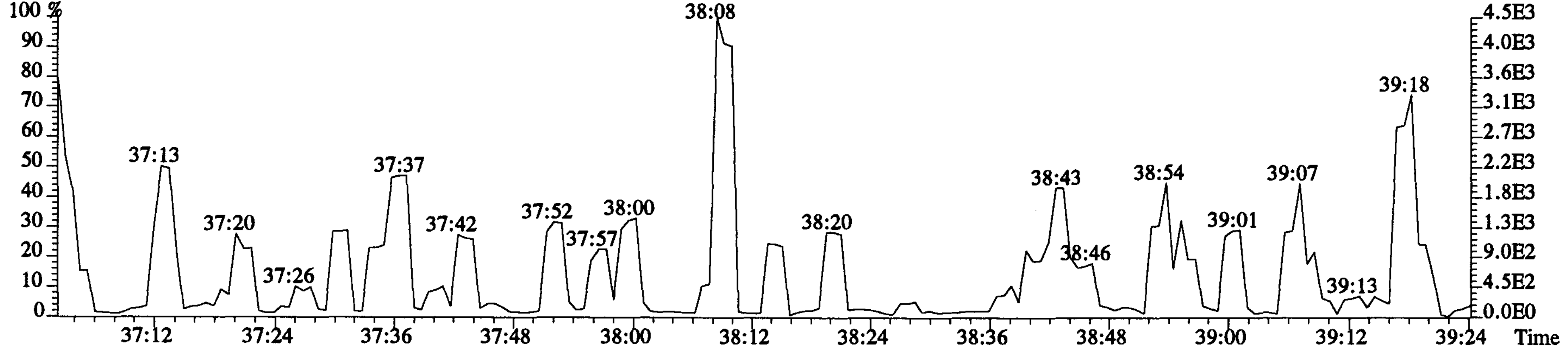
441.7428 S:64 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,784.0,1.00%,F,T)



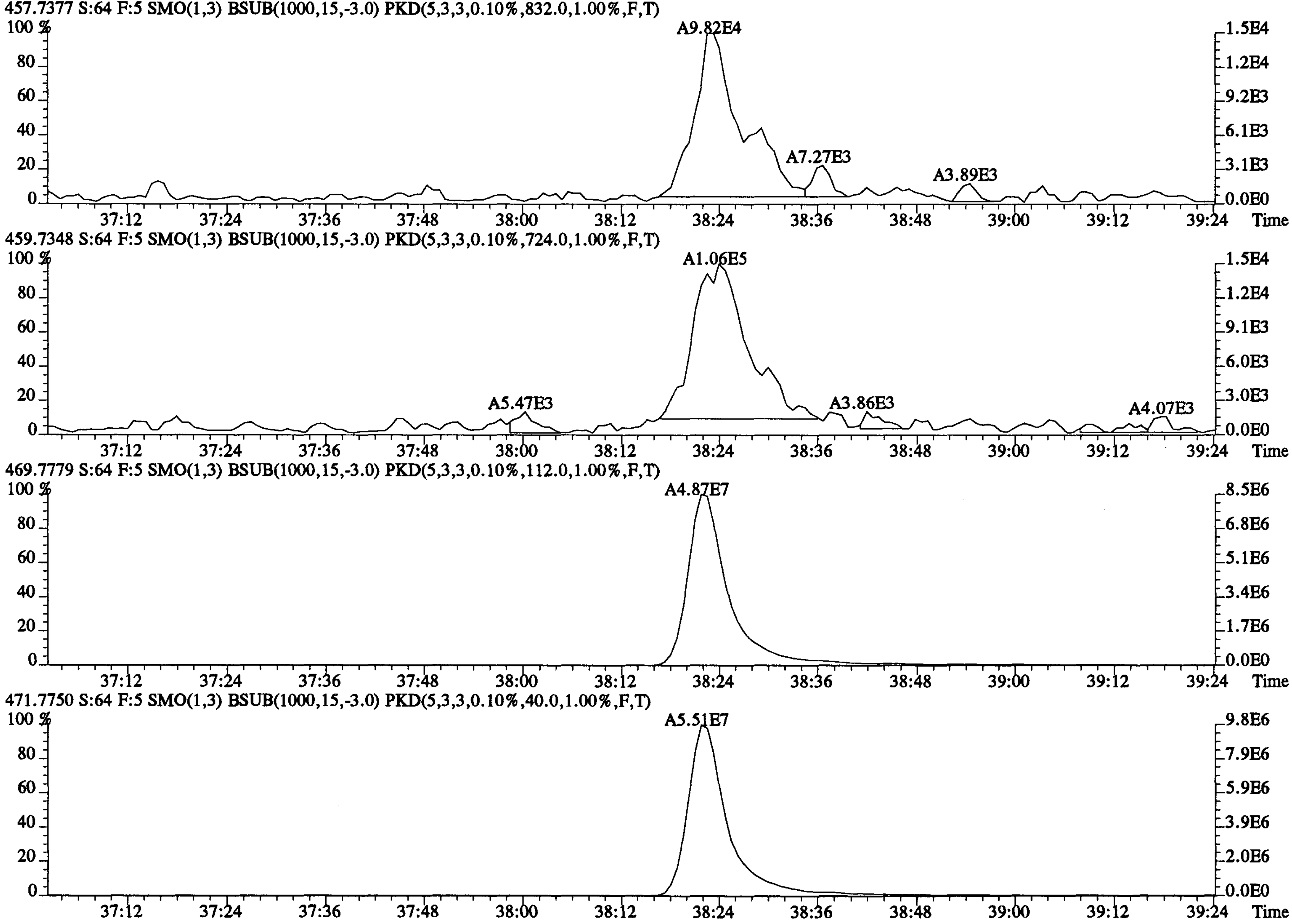
443.7399 S:64 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1104.0,1.00%,F,T)



513.6775 S:64 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,116.0,1.00%,F,T)



File:14OC104D5 #1-192 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES



457.7377 S:64 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,832.0,1.00%,F,T)

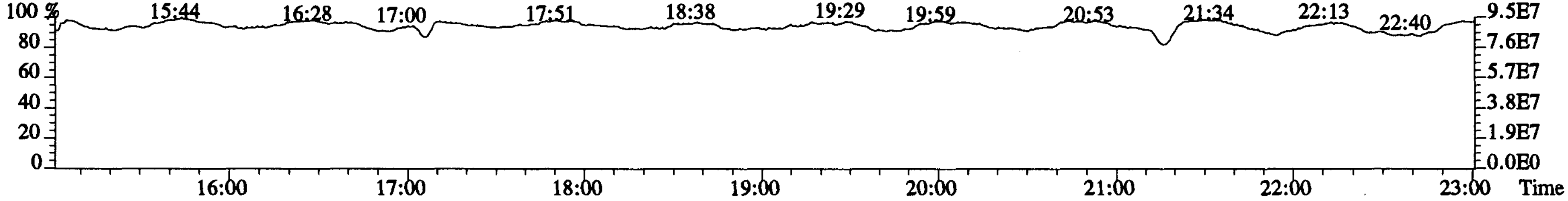
459.7348 S:64 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,724.0,1.00%,F,T)

469.7779 S:64 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,112.0,1.00%,F,T)

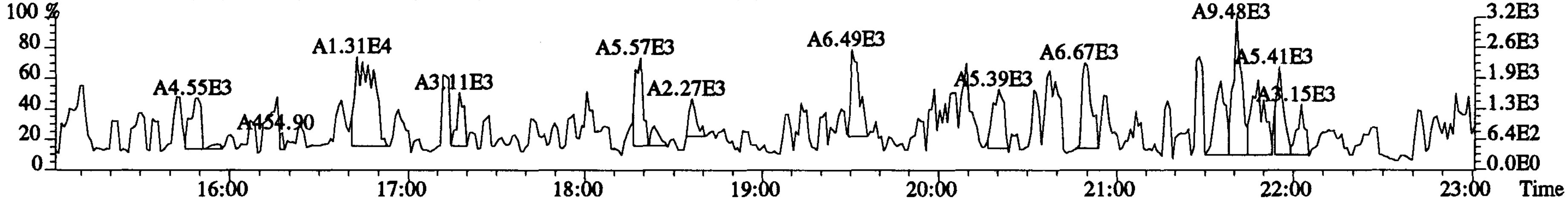
471.7750 S:64 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,40.0,1.00%,F,T)

File:14OC104D5 #1-530 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES

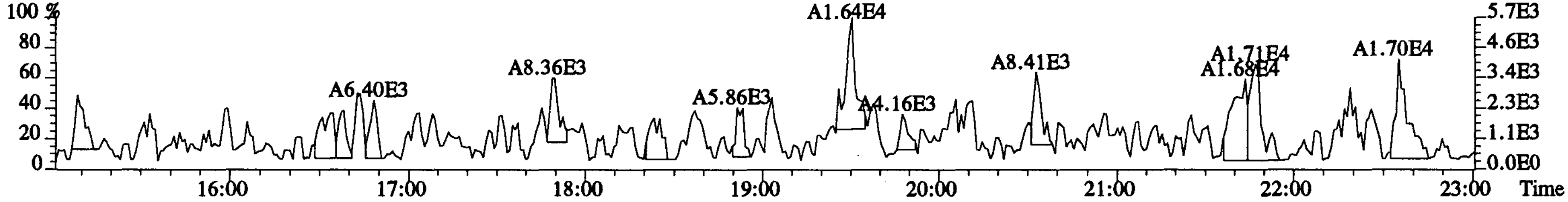
292.9825 S:64 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



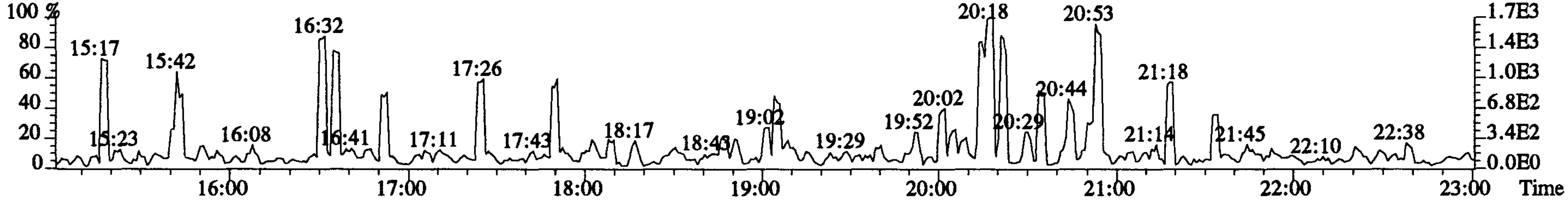
303.9016 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,836.0,1.00%,F,T)



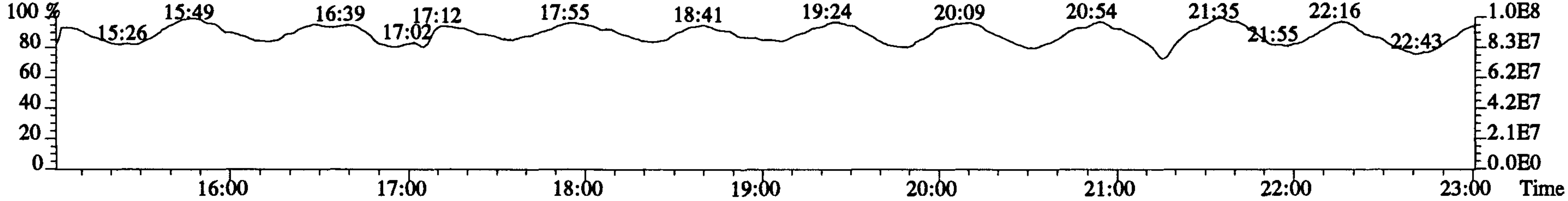
305.8987 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1300.0,1.00%,F,T)



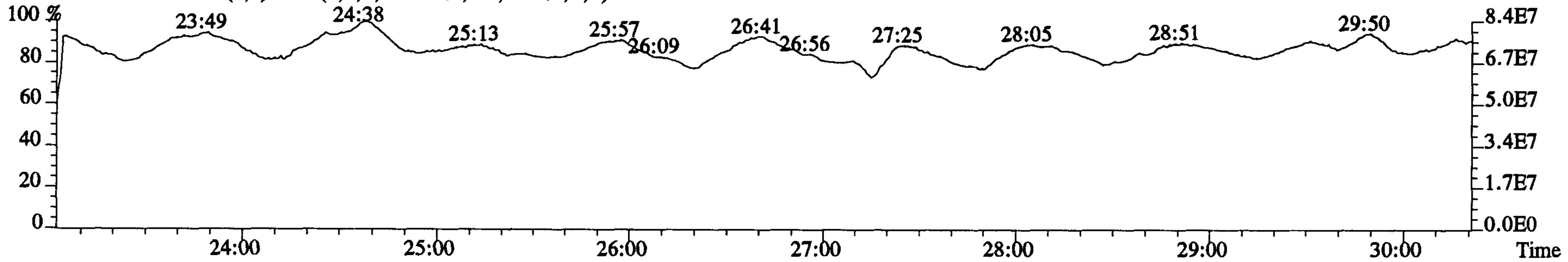
375.8364 S:64 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,140.0,1.00%,F,T)



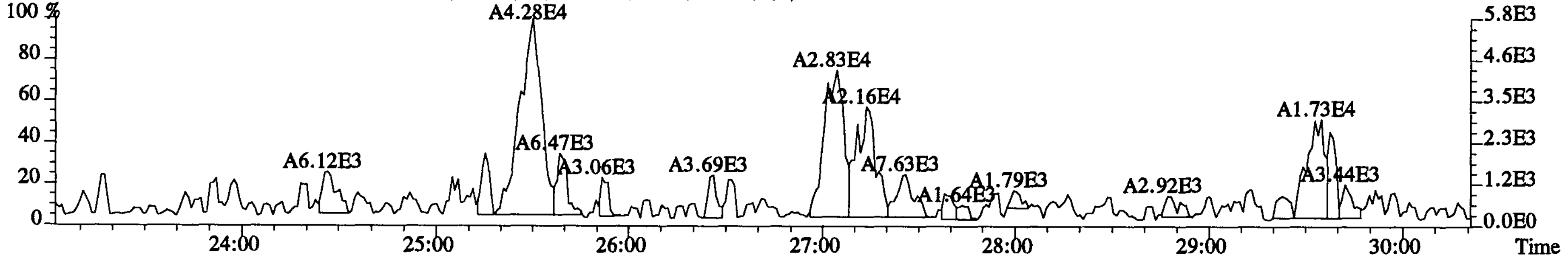
330.9792 S:64 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



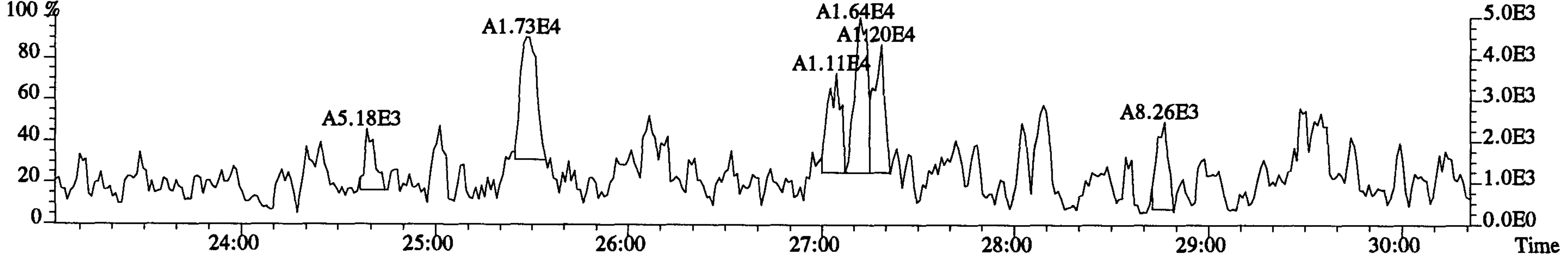
File:14OC104D5 #1-470 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES
342.9792 S:64 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



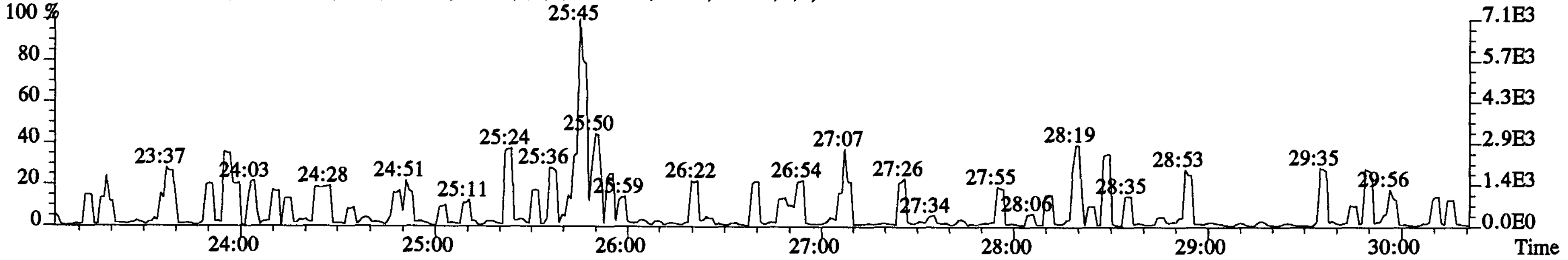
339.8597 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,592.0,1.00%,F,T)



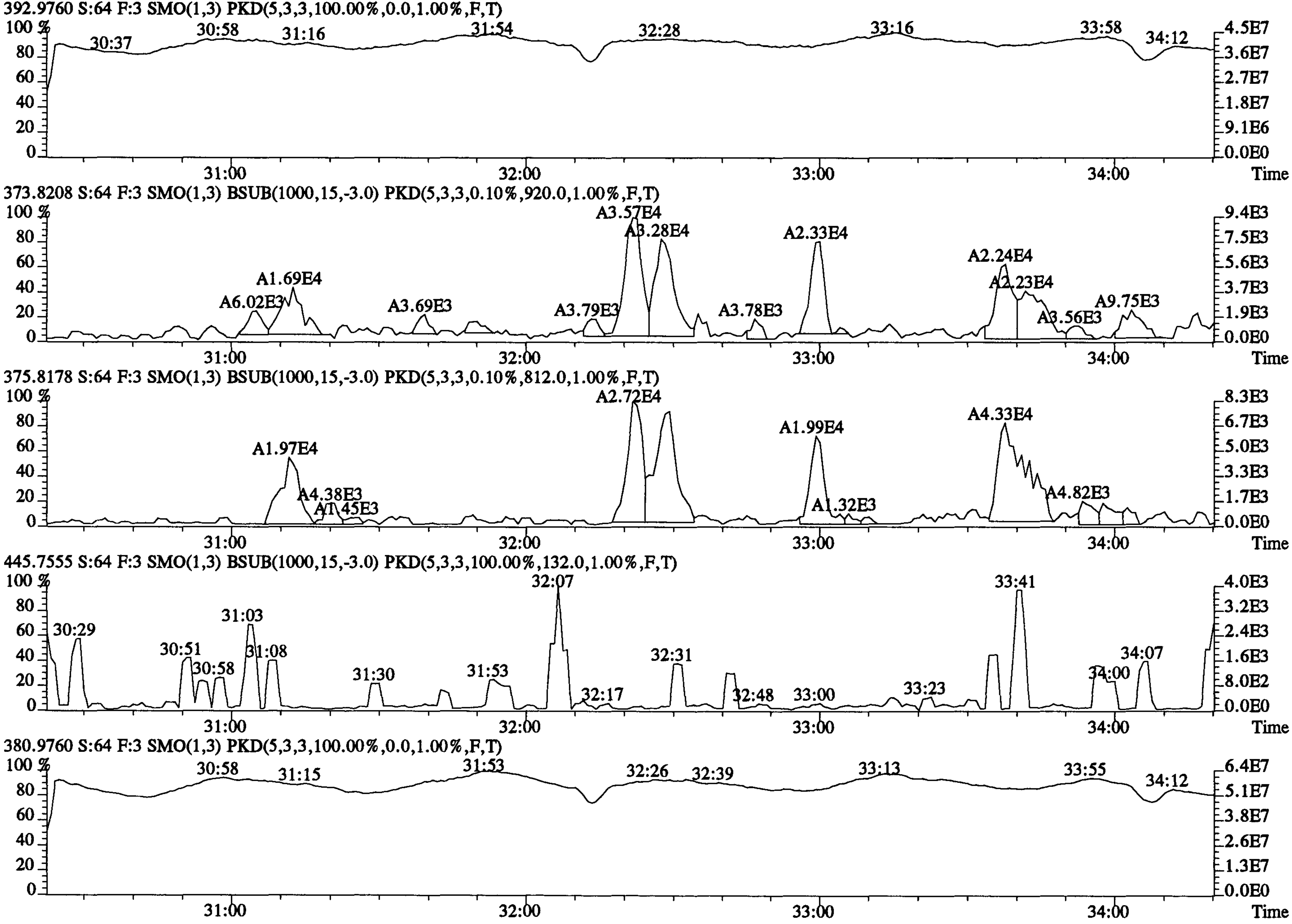
341.8567 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1336.0,1.00%,F,T)



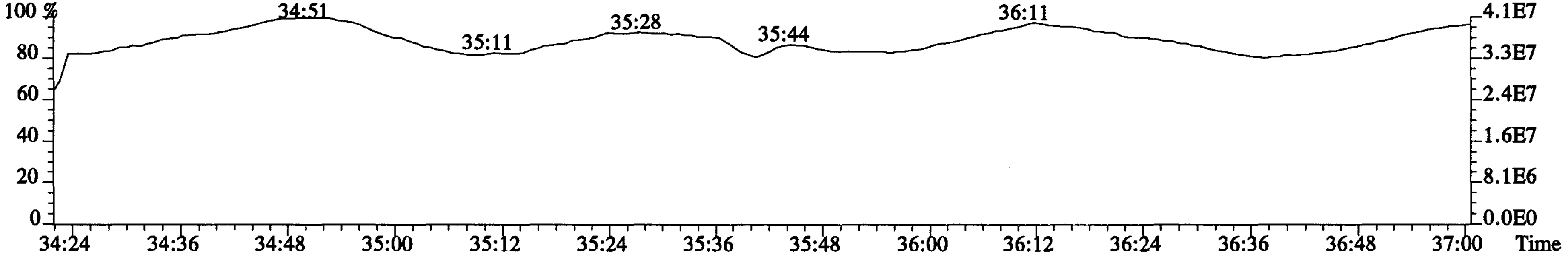
409.7974 S:64 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,108.0,1.00%,F,T)



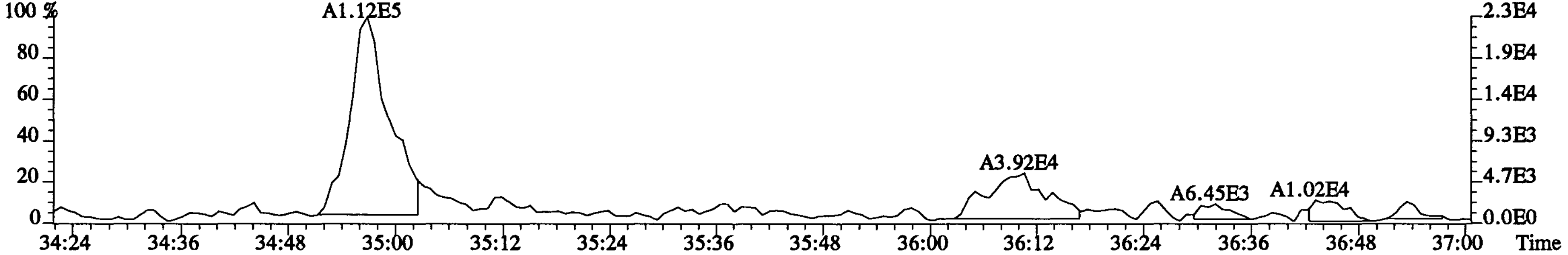
File:14OC104D5 #1-286 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES



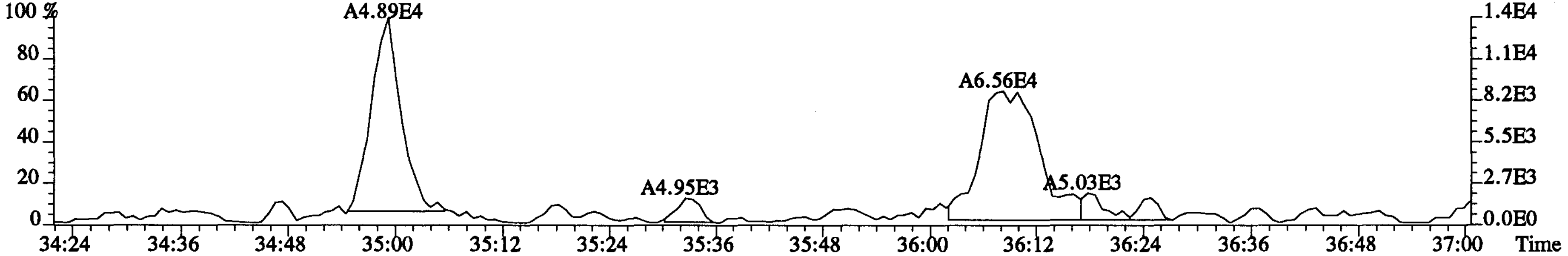
File:14OC104D5 #1-201 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES
430.9728 S:64 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



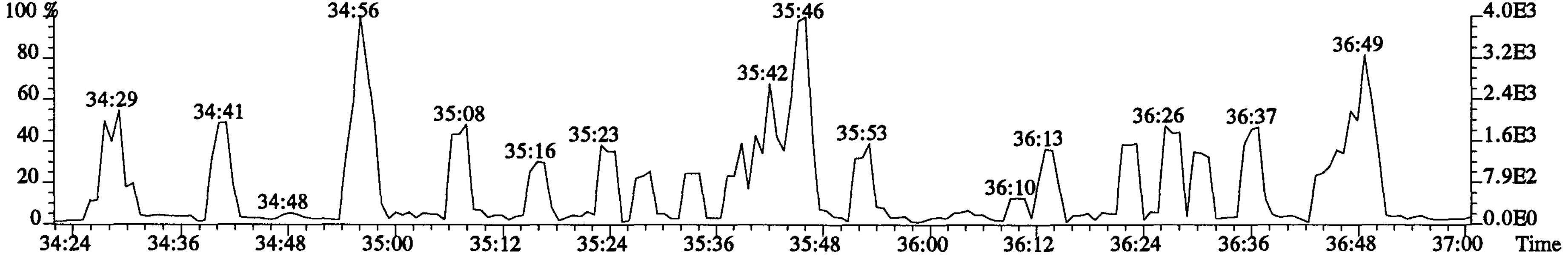
407.7818 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1536.0,1.00%,F,T)



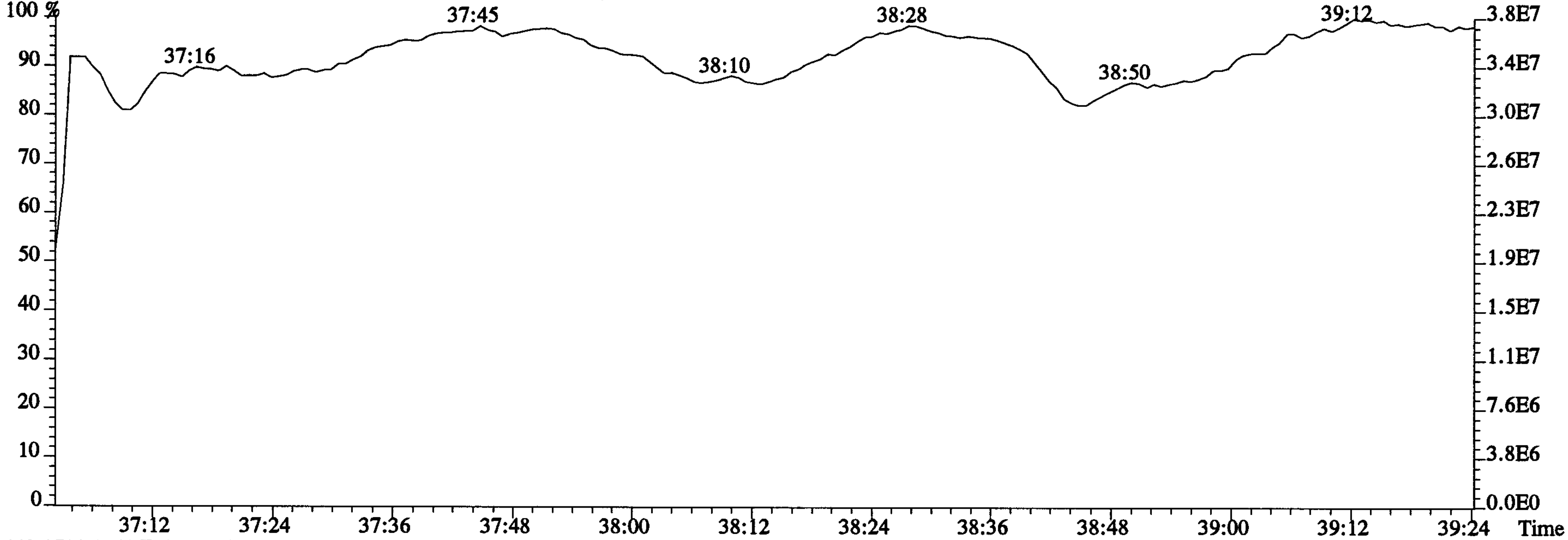
409.7789 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,944.0,1.00%,F,T)



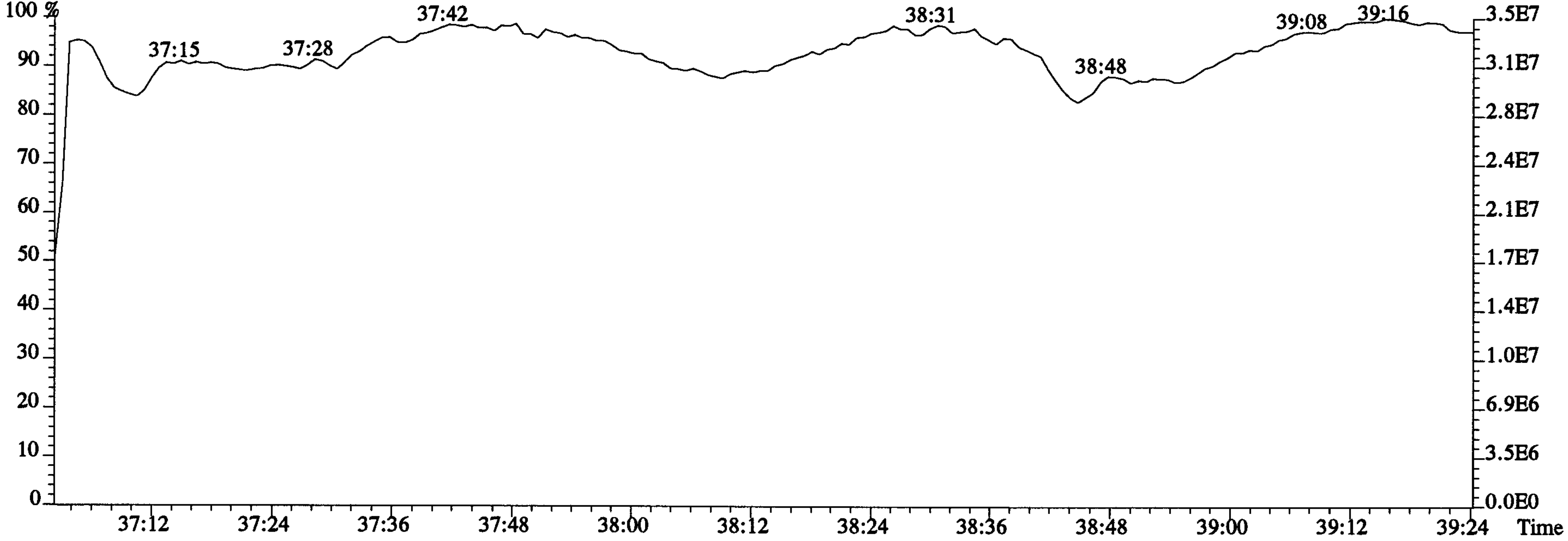
479.7165 S:64 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,168.0,1.00%,F,T)



File:14OC104D5 #1-192 Acq:16-OCT-2010 09:01:26 GC EI+ Voltage SIR Autospec-UltimaE
Sample#64 Text:L8A5X-1-AA :G0J120000-255 (429-MB) Exp:DIOXINRES
454.9728 S:64 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

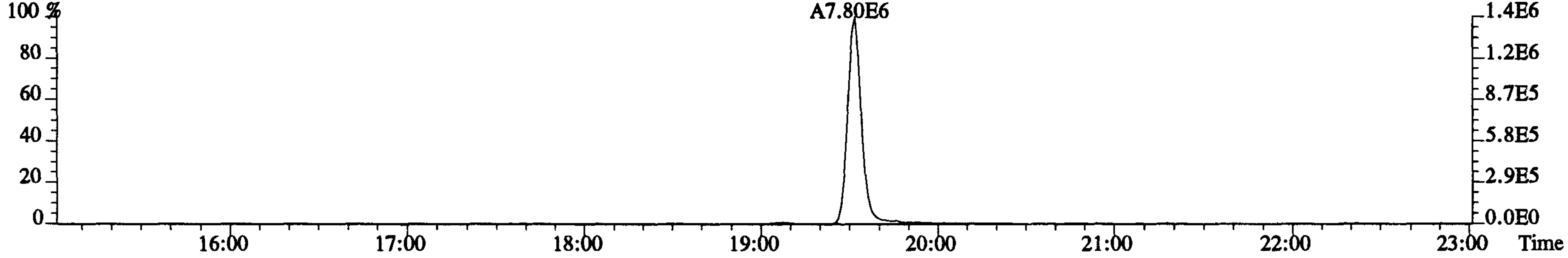


442.9728 S:64 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

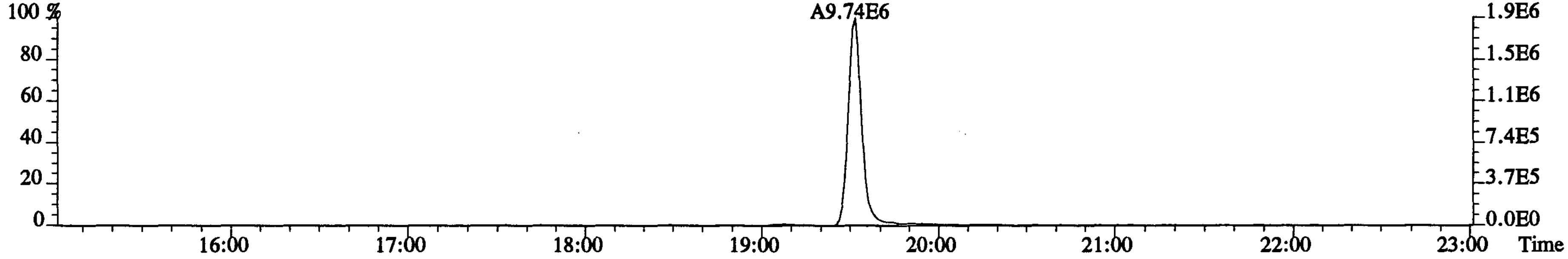


File:14OC104D5 #1-530 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES

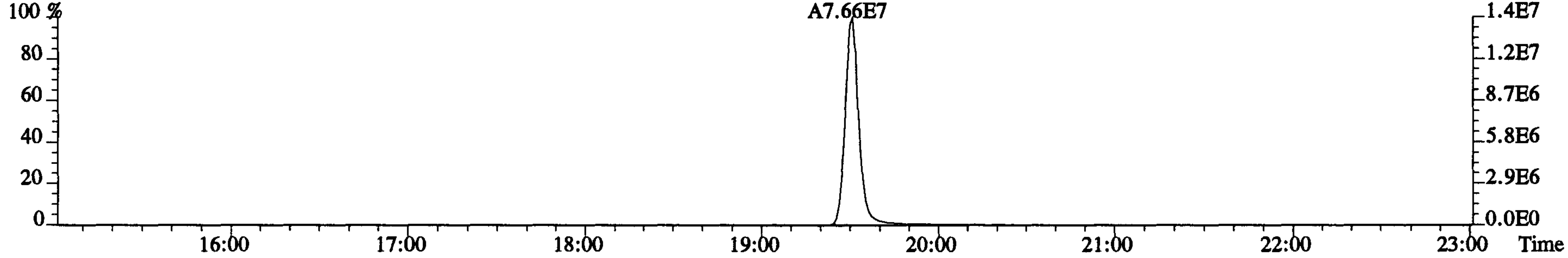
303.9016 S:76 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1248.0,1.00%,F,T)



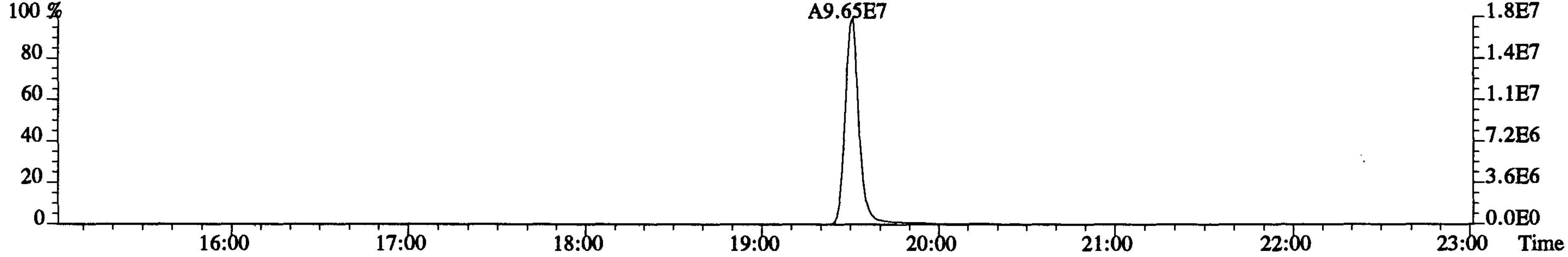
305.8987 S:76 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2400.0,1.00%,F,T)



315.9419 S:76 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2980.0,1.00%,F,T)

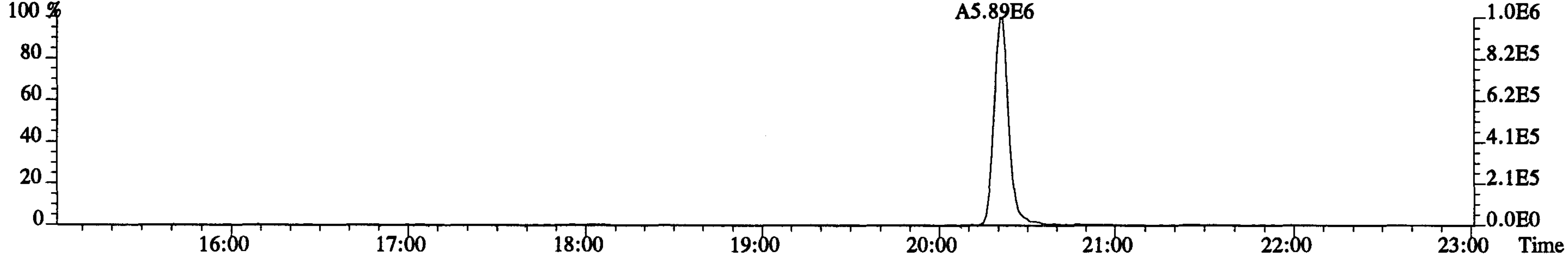


317.9389 S:76 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2764.0,1.00%,F,T)

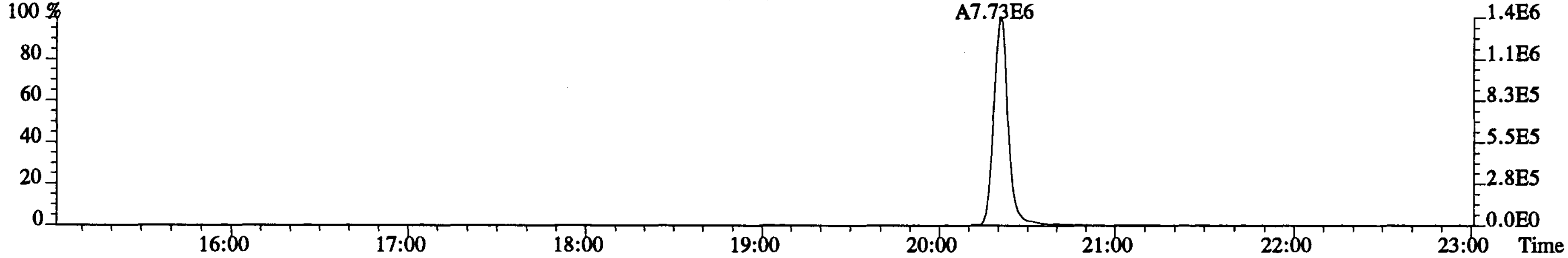


File:14OC104D5 #1-530 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES

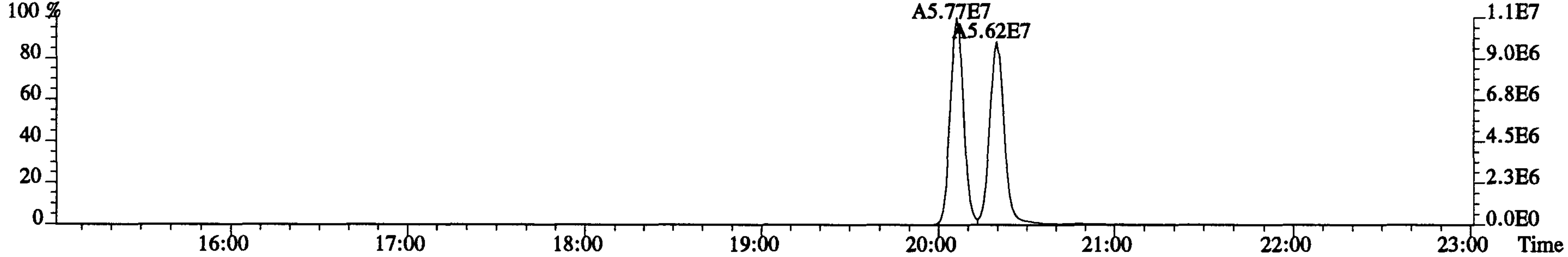
319.8965 S:76 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1352.0,1.00%,F,T)



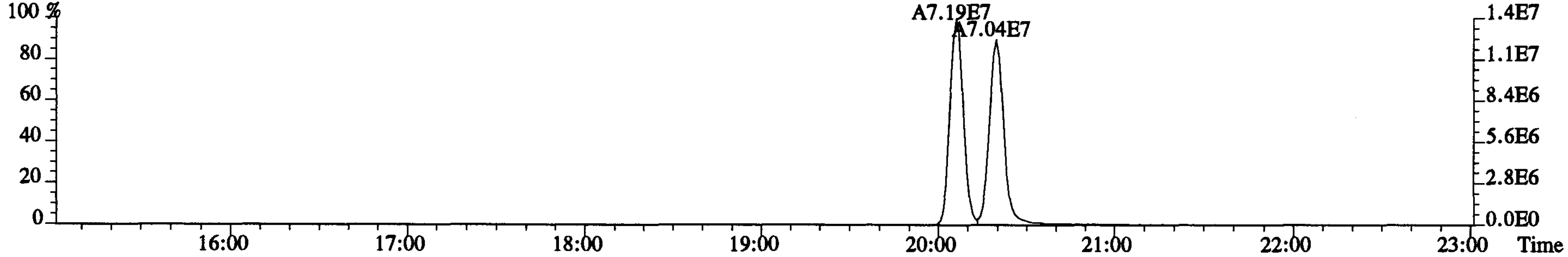
321.8936 S:76 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1848.0,1.00%,F,T)



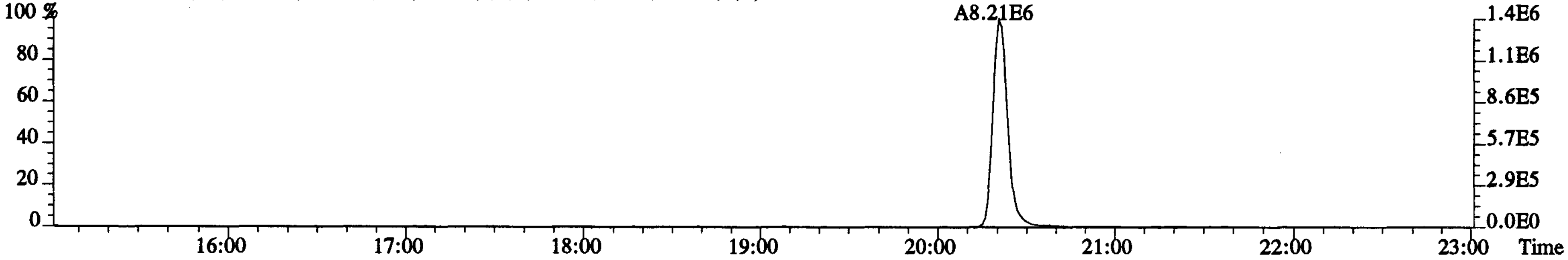
331.9368 S:76 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9920.0,1.00%,F,T)



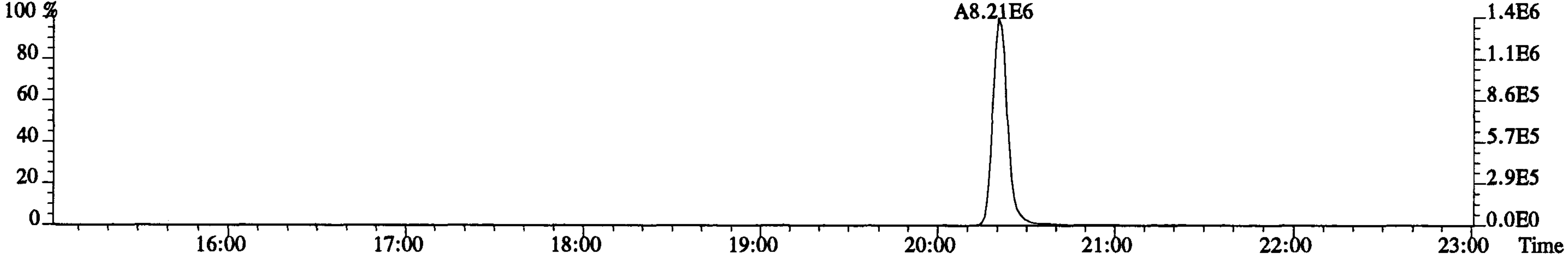
333.9339 S:76 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2736.0,1.00%,F,T)



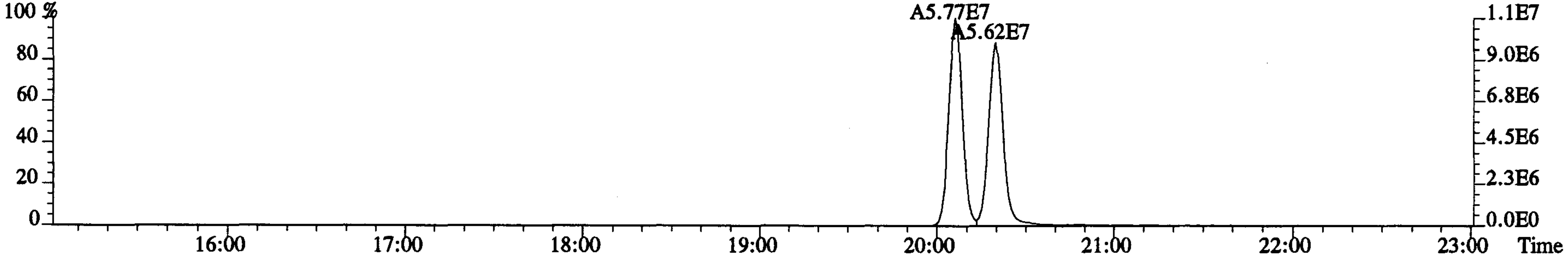
File:14OC104D5 #1-530 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES
327.8847 S:76 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,100.0,1.00%,F,T)



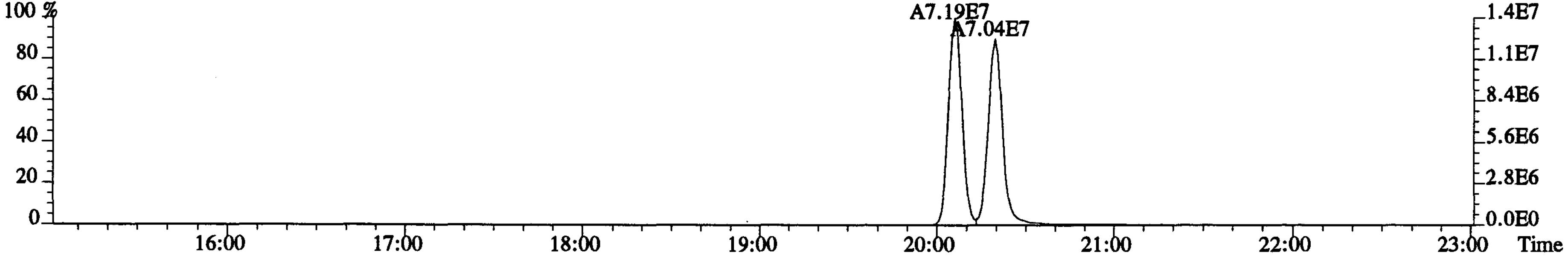
327.8847 S:76 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,100.0,1.00%,F,T)



331.9368 S:76 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9920.0,1.00%,F,T)

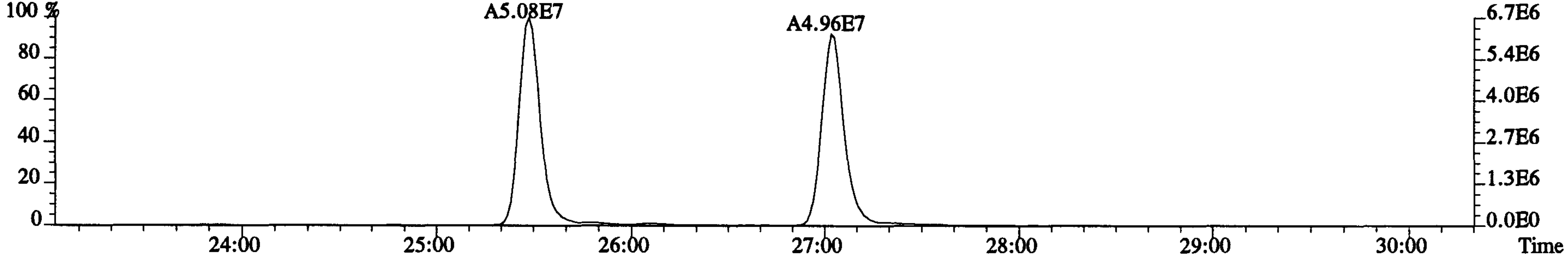


333.9339 S:76 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2736.0,1.00%,F,T)

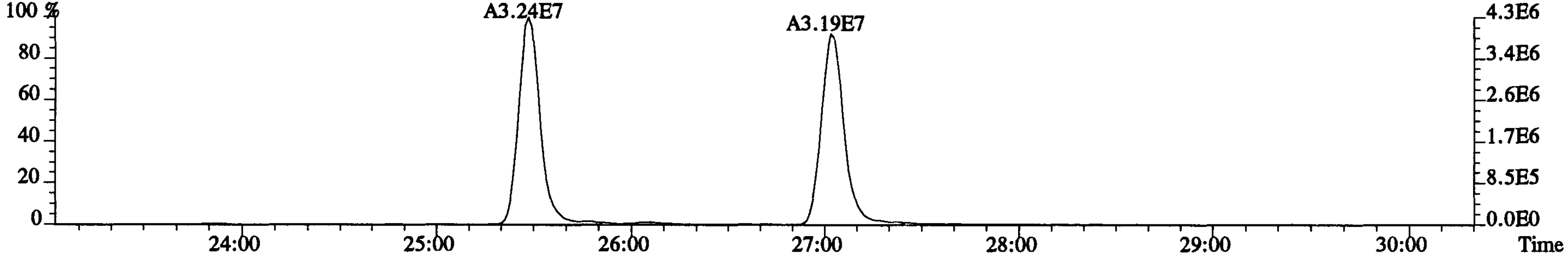


File:14OC104D5 #1-469 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES

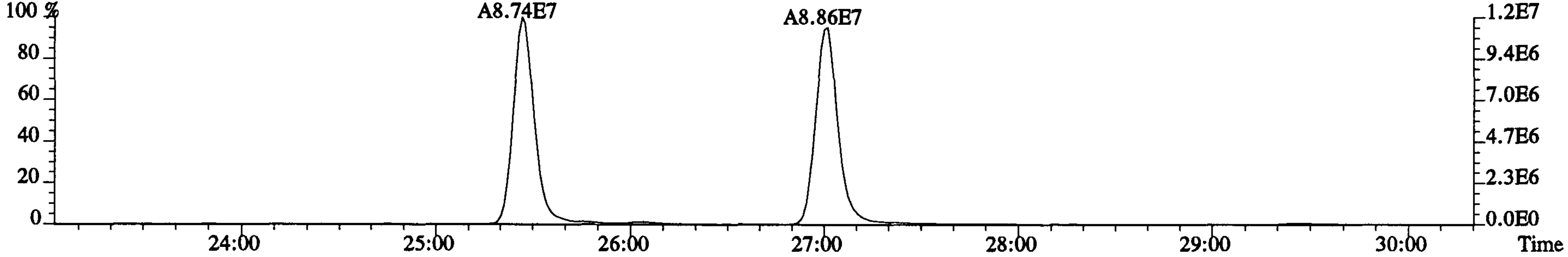
339.8597 S:76 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2004.0,1.00%,F,T)



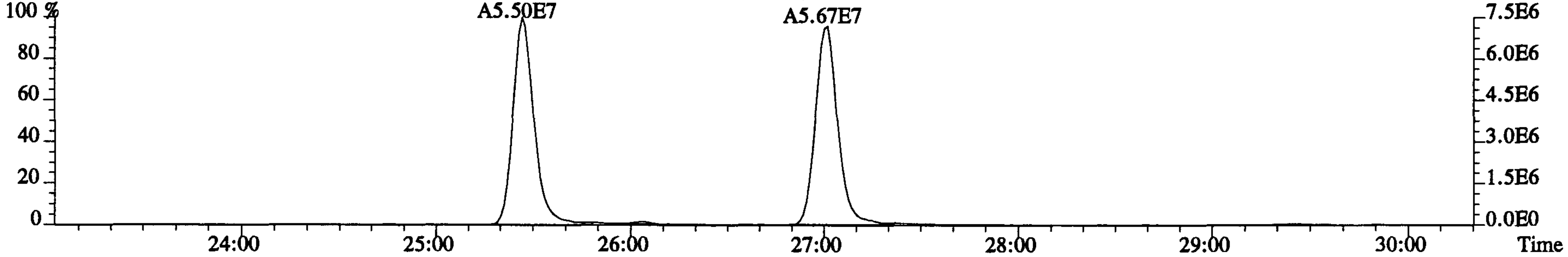
341.8567 S:76 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3836.0,1.00%,F,T)



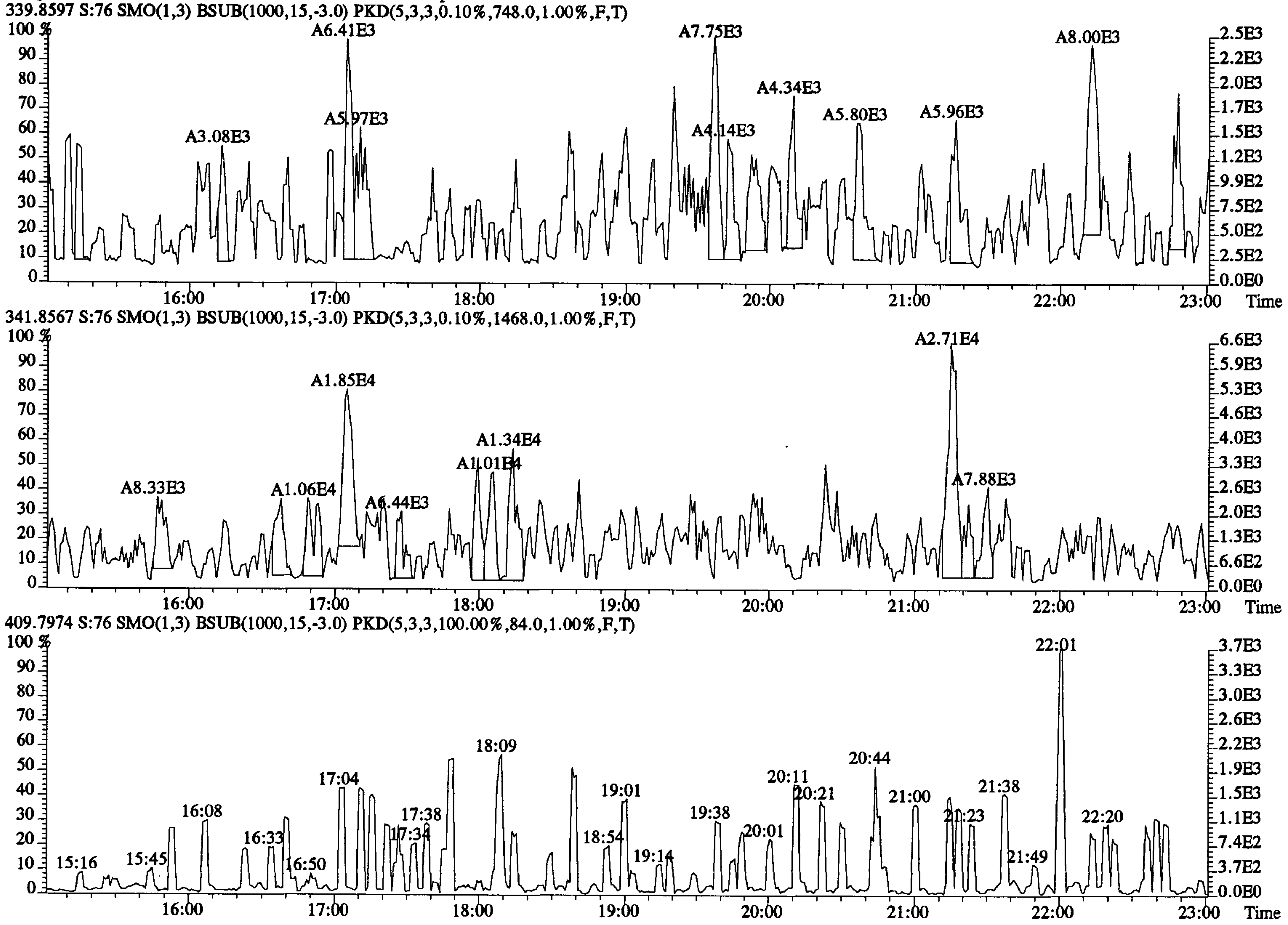
351.9000 S:76 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7020.0,1.00%,F,T)



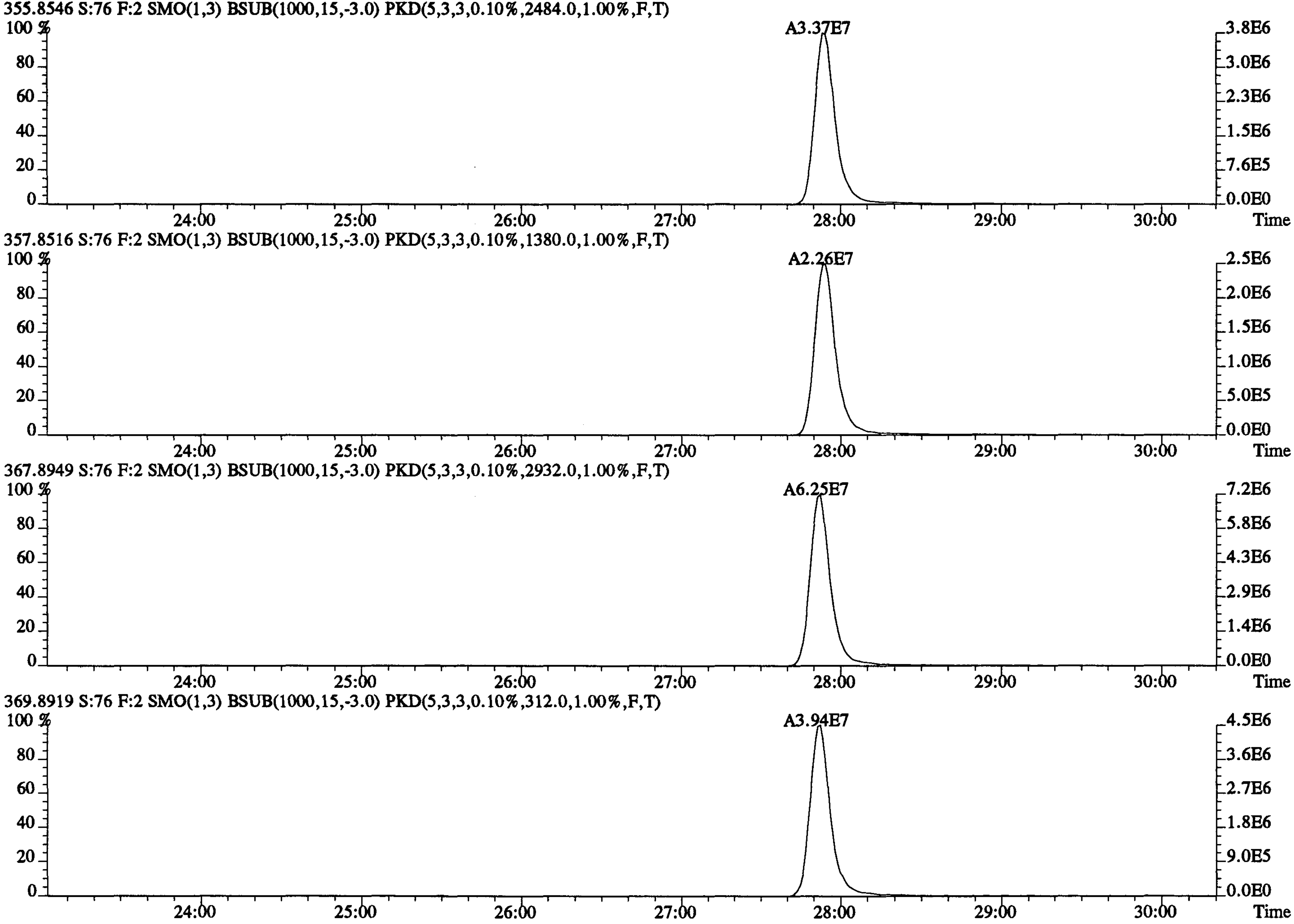
353.8970 S:76 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6540.0,1.00%,F,T)



File:14OC104D5 #1-530 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES



File:14OC104D5 #1-469 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES



355.8546 S:76 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2484.0,1.00%,F,T)

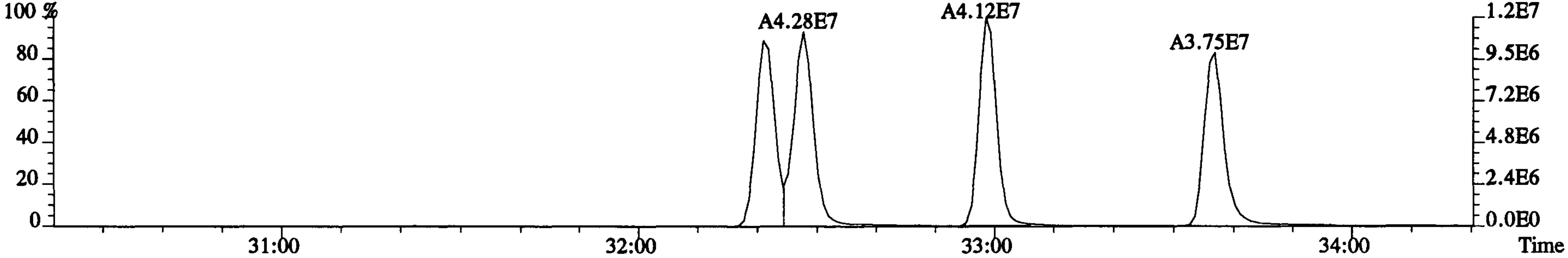
357.8516 S:76 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1380.0,1.00%,F,T)

367.8949 S:76 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2932.0,1.00%,F,T)

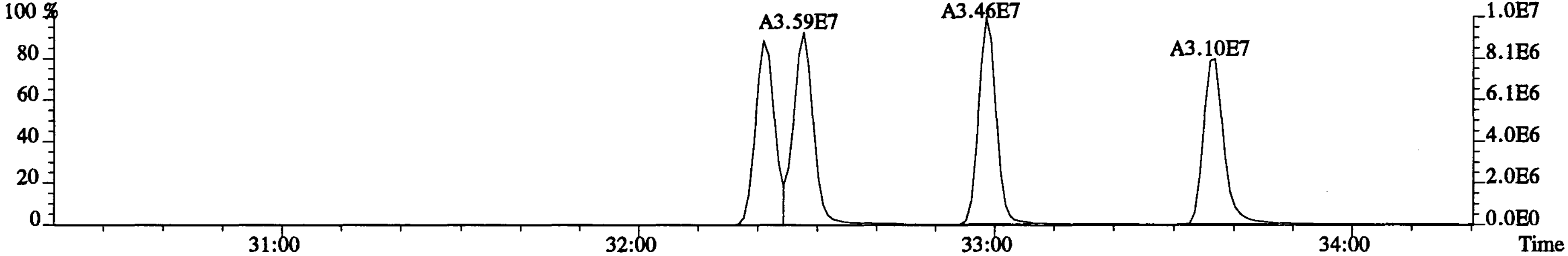
369.8919 S:76 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,312.0,1.00%,F,T)

File:14OC104D5 #1-287 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES

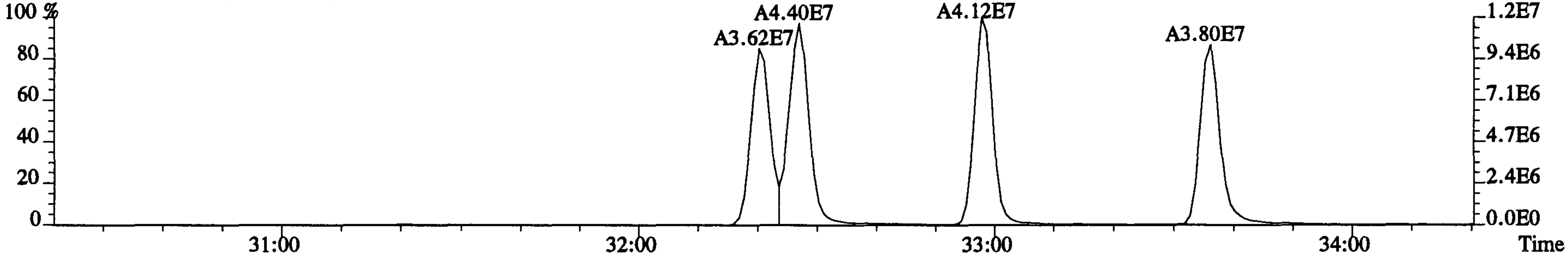
373.8208 S:76 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)



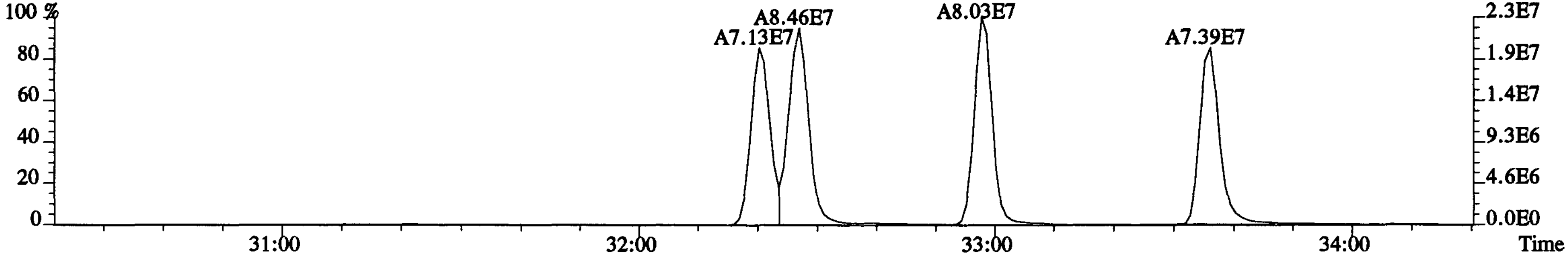
375.8178 S:76 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,956.0,1.00%,F,T)



383.8639 S:76 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2128.0,1.00%,F,T)

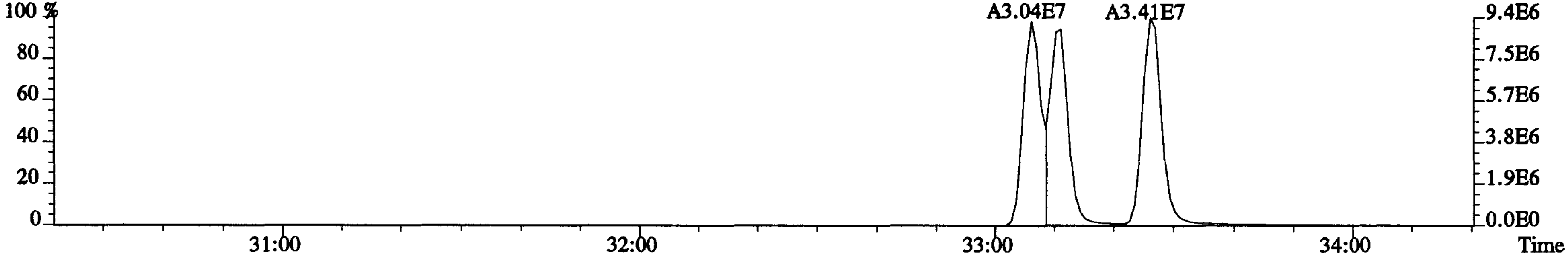


385.8610 S:76 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1864.0,1.00%,F,T)

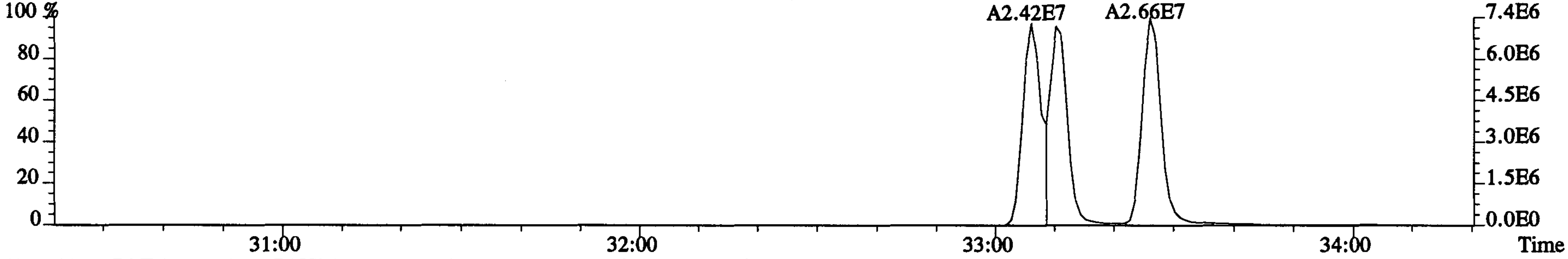


File:14OC104D5 #1-287 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES

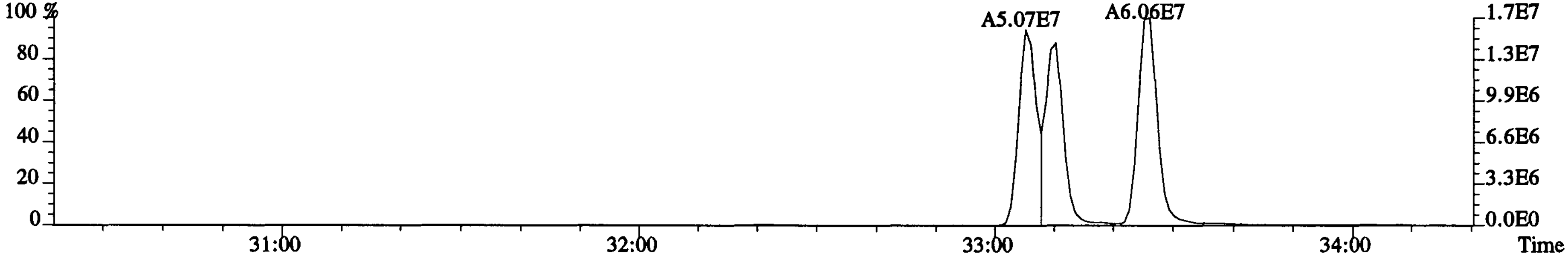
389.8157 S:76 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1156.0,1.00%,F,T)



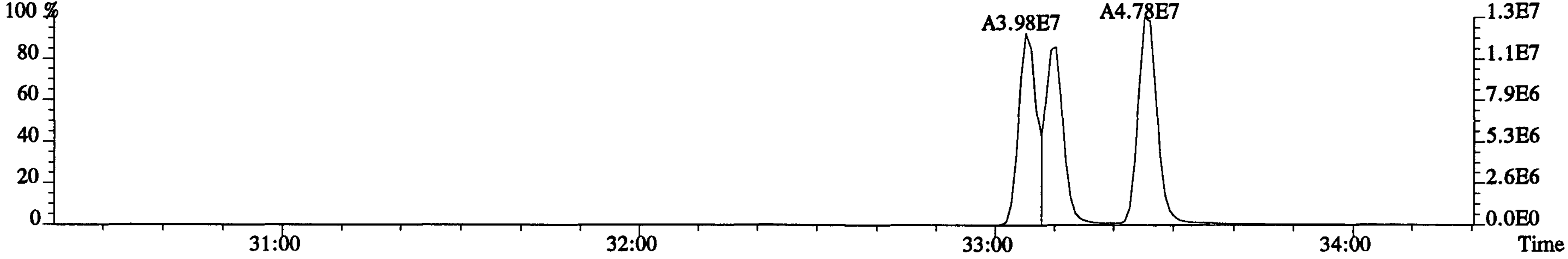
391.8127 S:76 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,828.0,1.00%,F,T)



401.8559 S:76 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,280.0,1.00%,F,T)

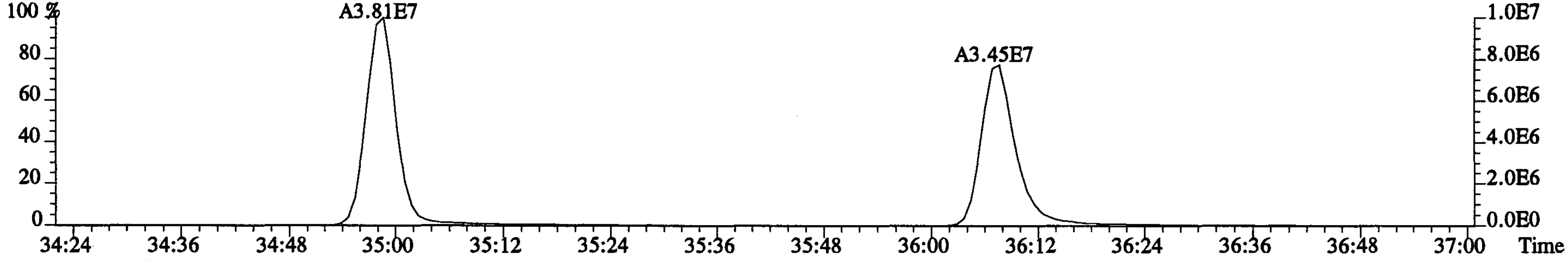


403.8529 S:76 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1836.0,1.00%,F,T)

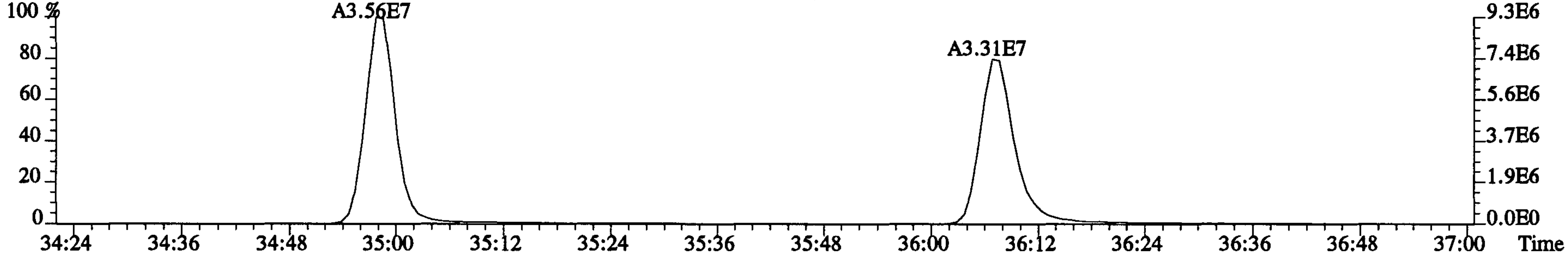


File:14OC104D5 #1-201 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES

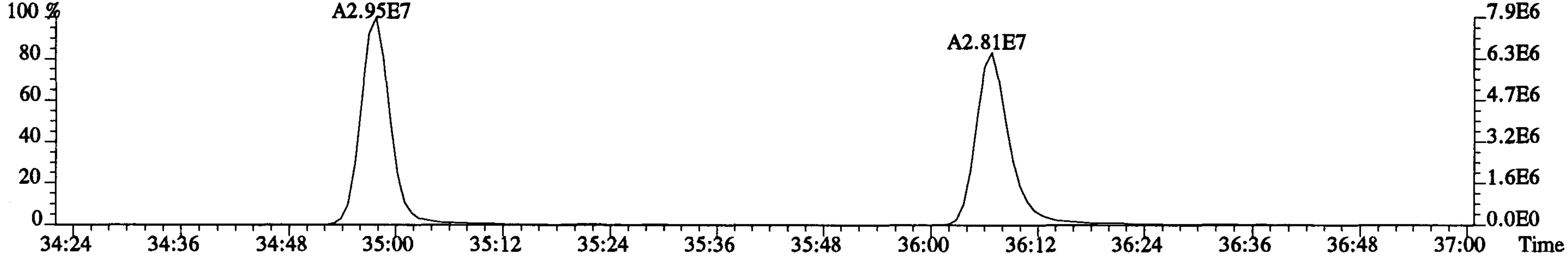
407.7818 S:76 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4468.0,1.00%,F,T)



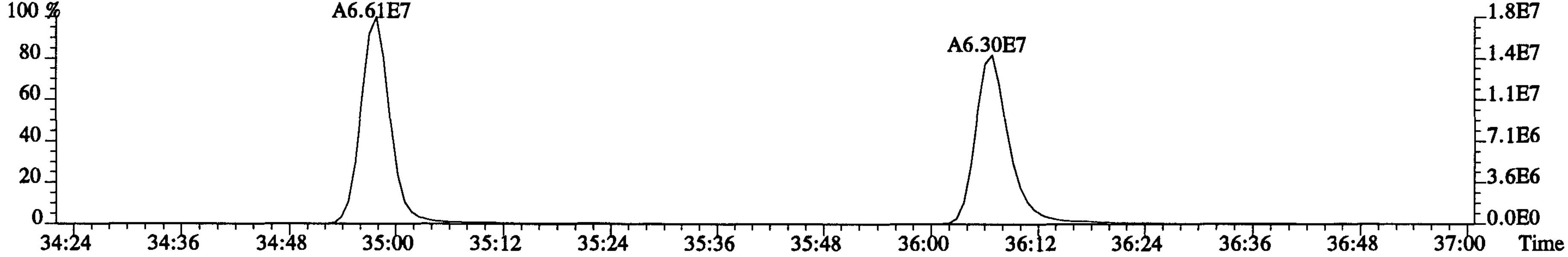
409.7789 S:76 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10368.0,1.00%,F,T)



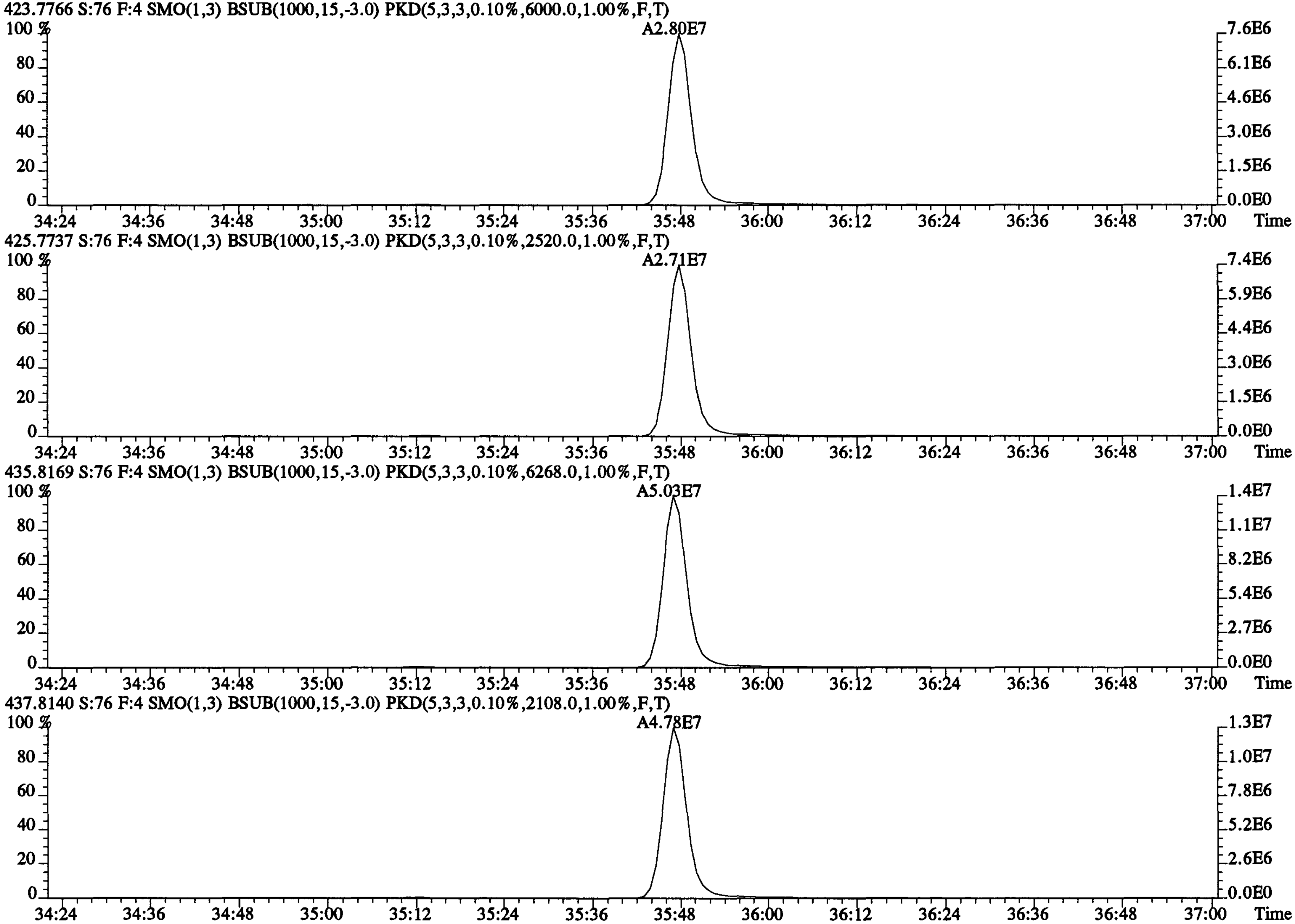
417.8253 S:76 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7132.0,1.00%,F,T)



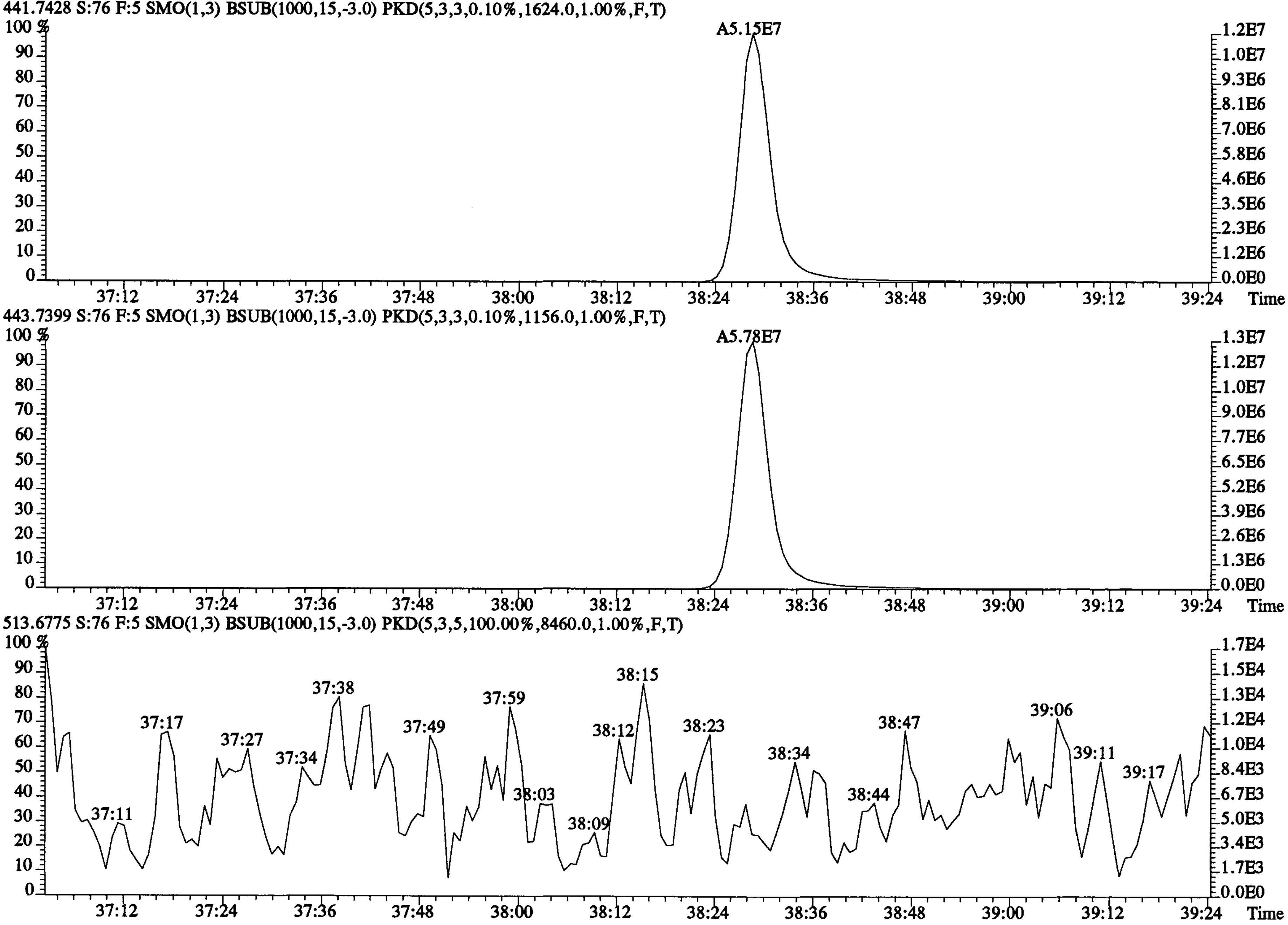
419.8220 S:76 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23736.0,1.00%,F,T)



File:14OC104D5 #1-201 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES



File:14OC104D5 #1-192 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES



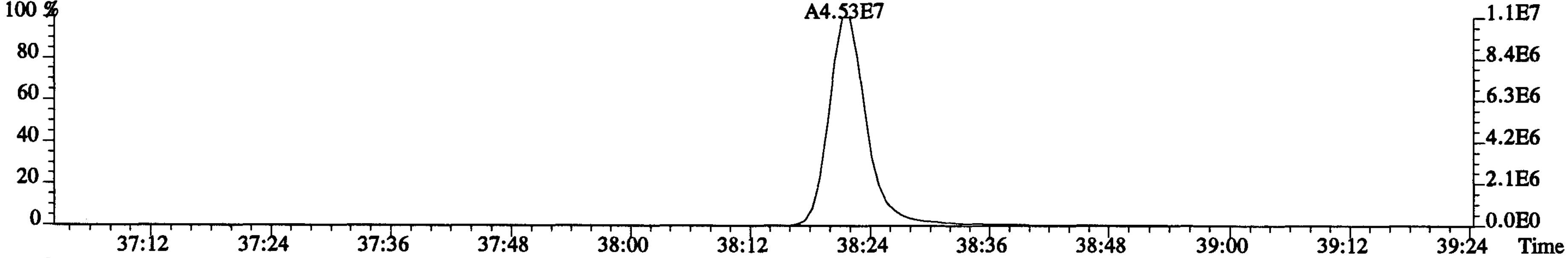
441.7428 S:76 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1624.0,1.00%,F,T)

443.7399 S:76 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1156.0,1.00%,F,T)

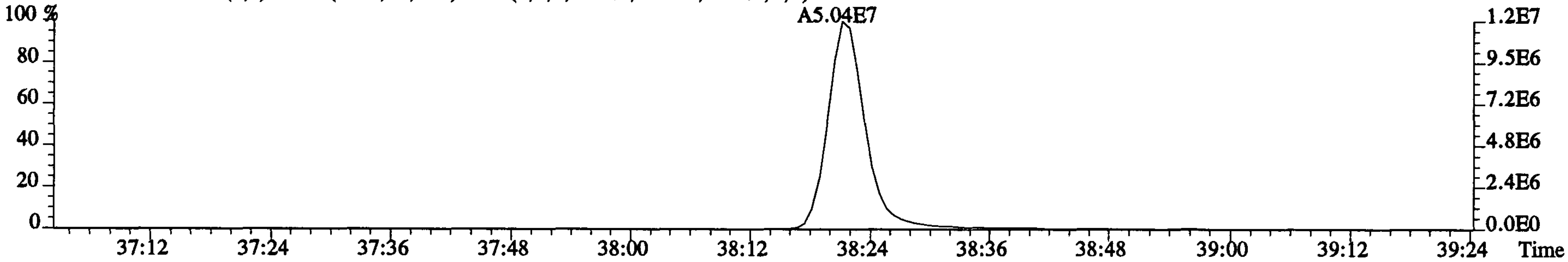
513.6775 S:76 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,8460.0,1.00%,F,T)

File:14OC104D5 #1-192 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES

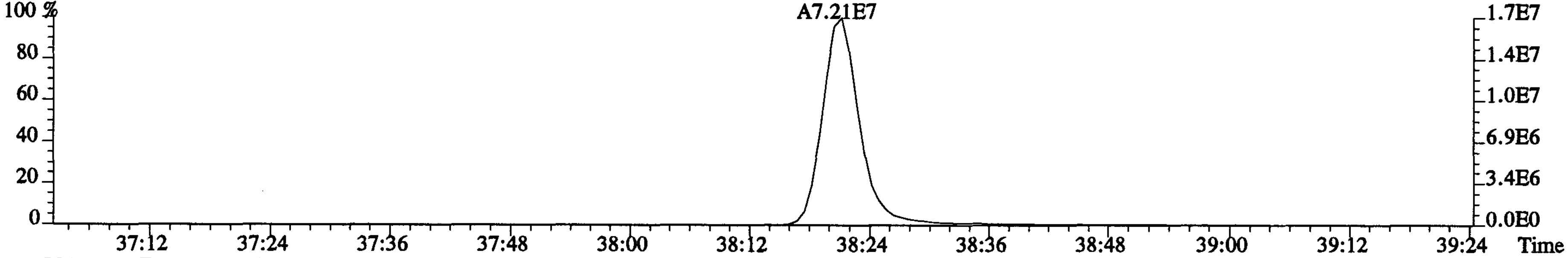
457.7377 S:76 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1696.0,1.00%,F,T)



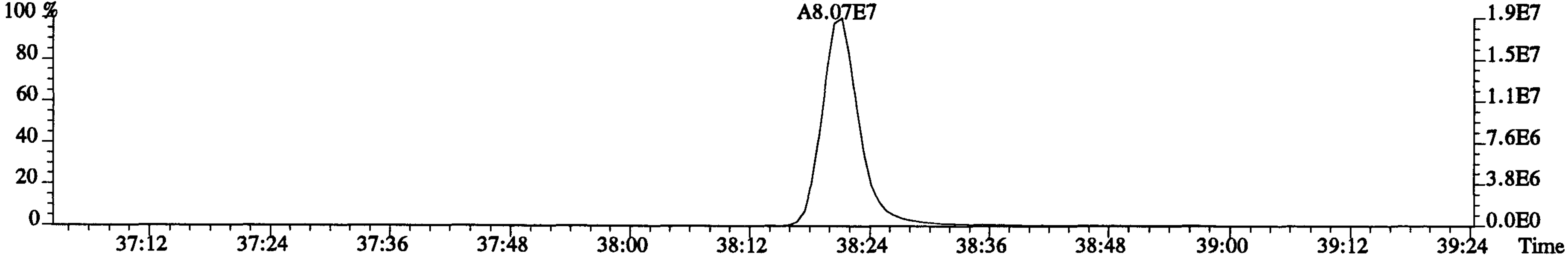
459.7348 S:76 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4844.0,1.00%,F,T)



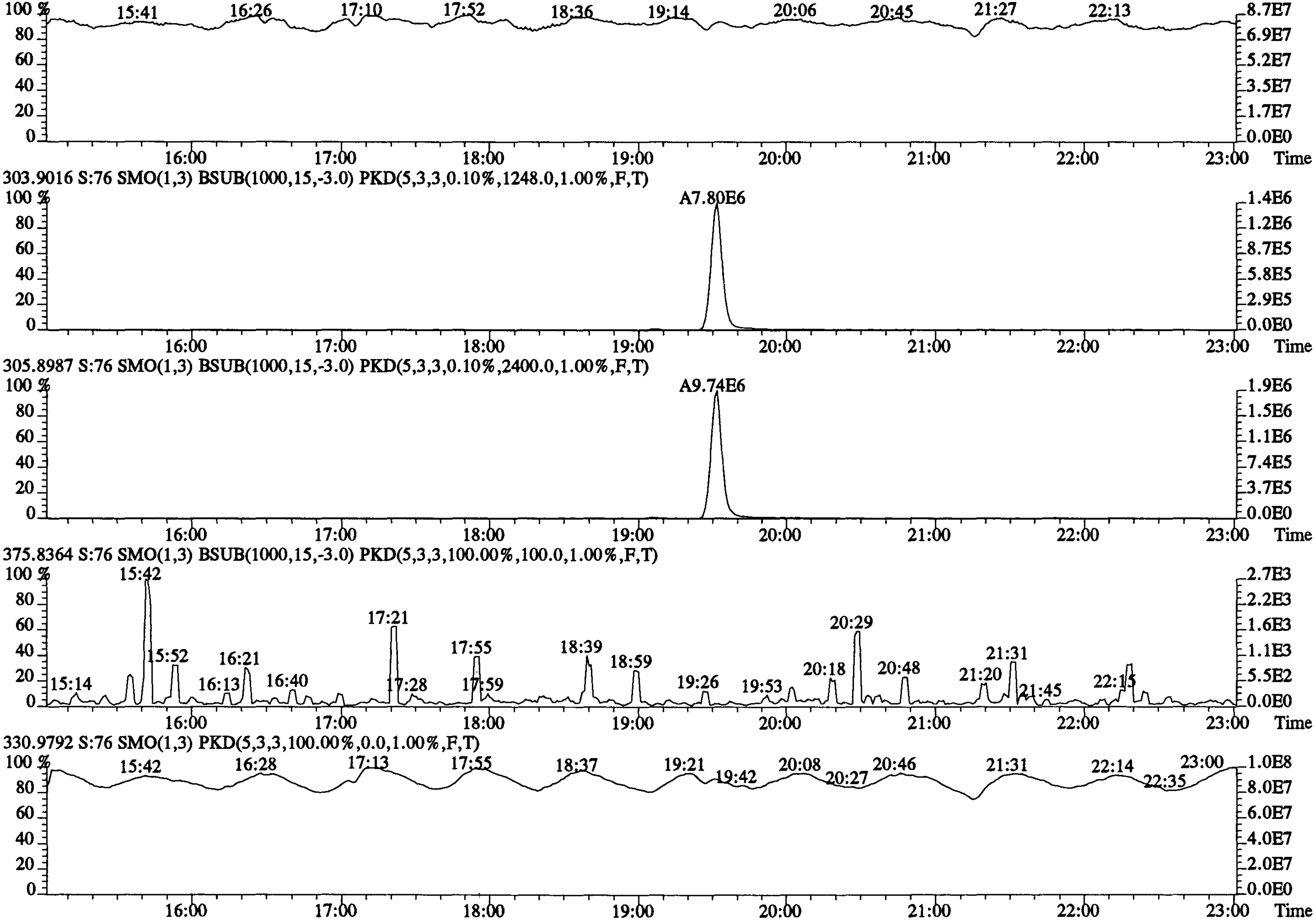
469.7779 S:76 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1420.0,1.00%,F,T)



471.7750 S:76 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2864.0,1.00%,F,T)



File:14OC104D5 #1-530 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES



292.9825 S:76 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

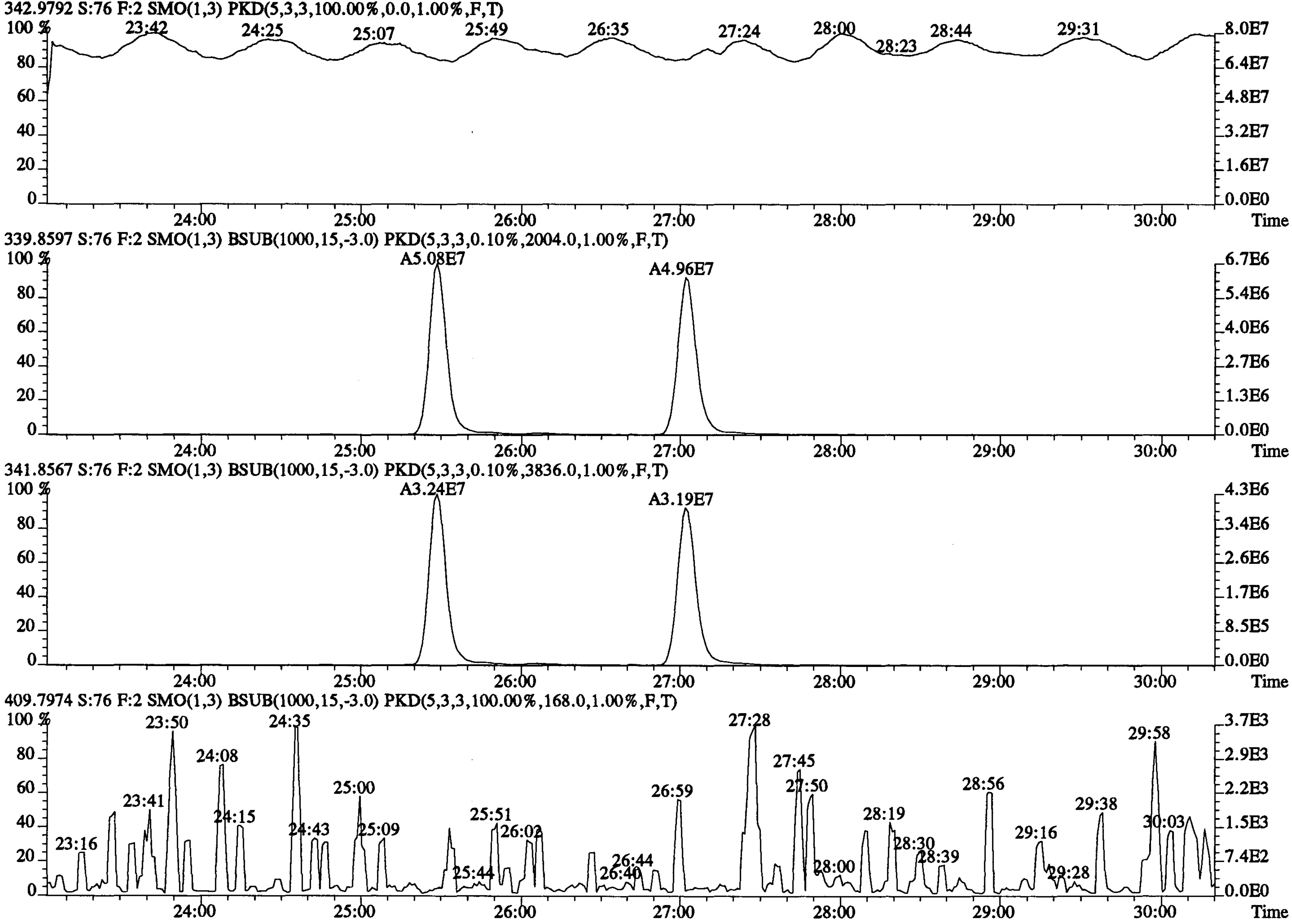
303.9016 S:76 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1248.0,1.00%,F,T)

305.8987 S:76 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2400.0,1.00%,F,T)

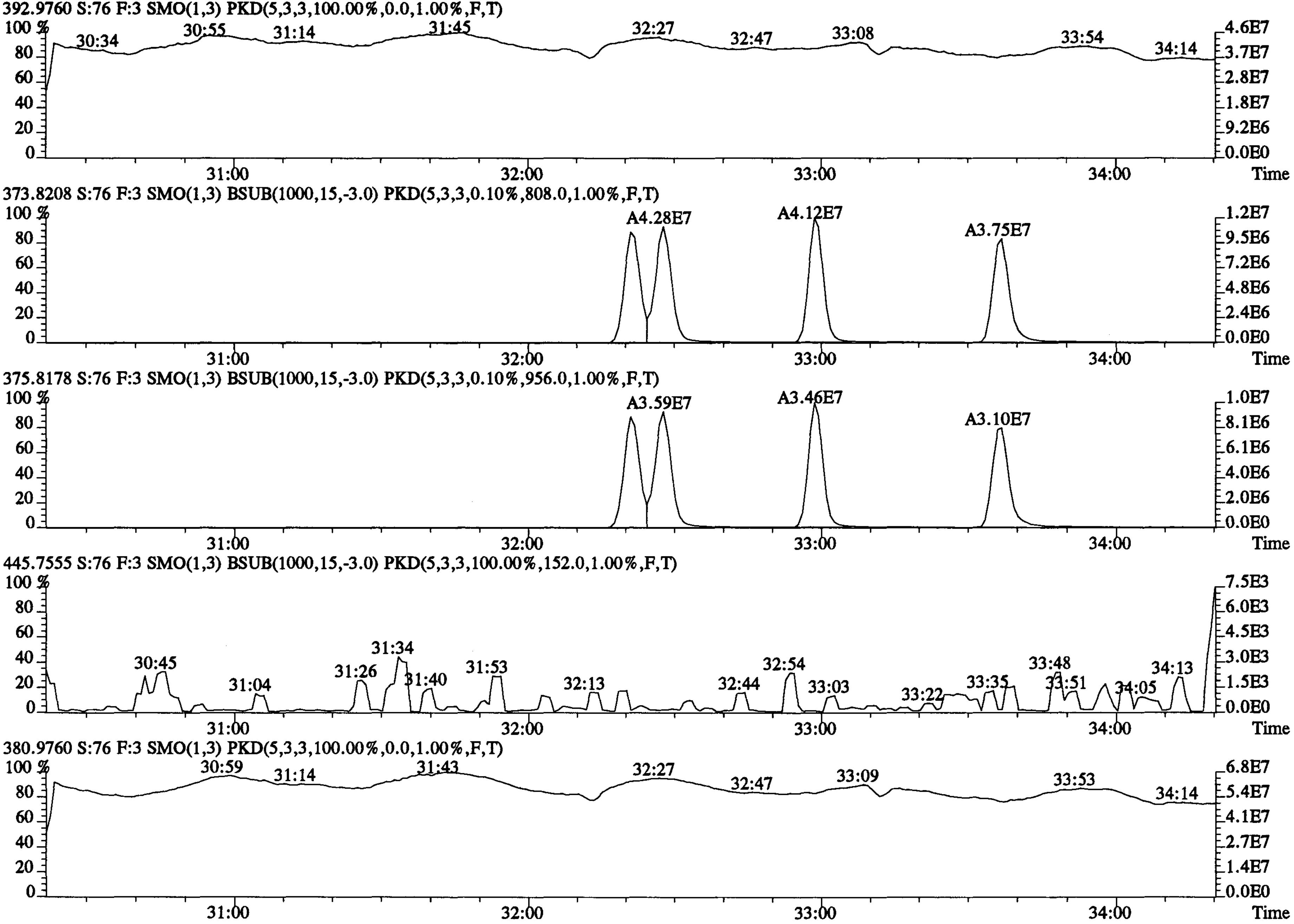
375.8364 S:76 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,100.0,1.00%,F,T)

330.9792 S:76 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

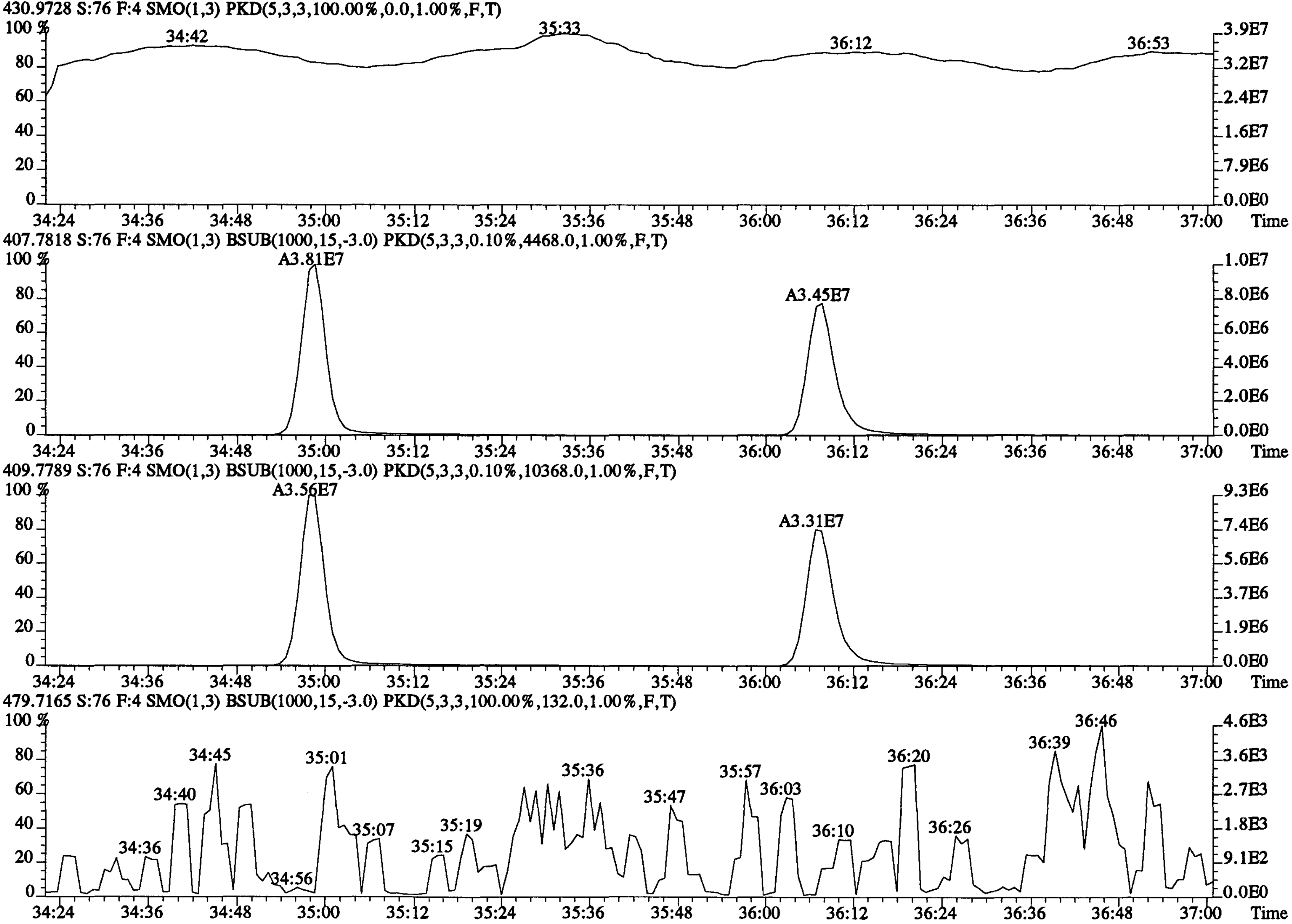
File:14OC104D5 #1-469 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES



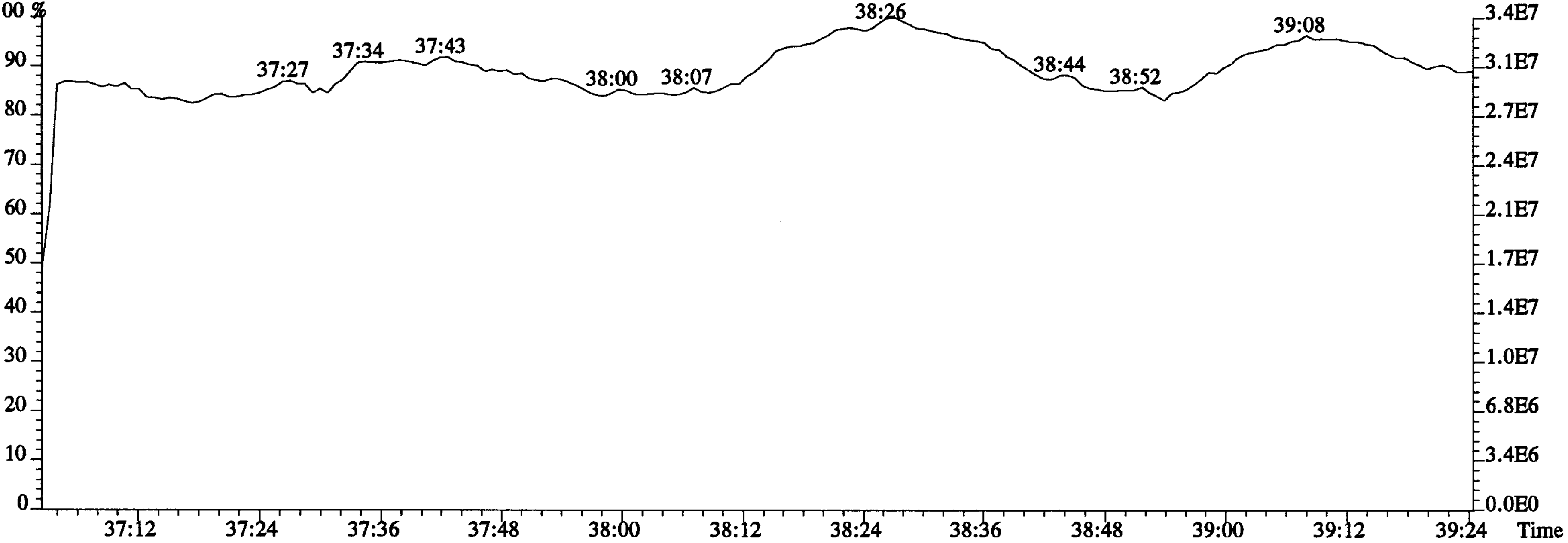
File:14OC104D5 #1-287 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES



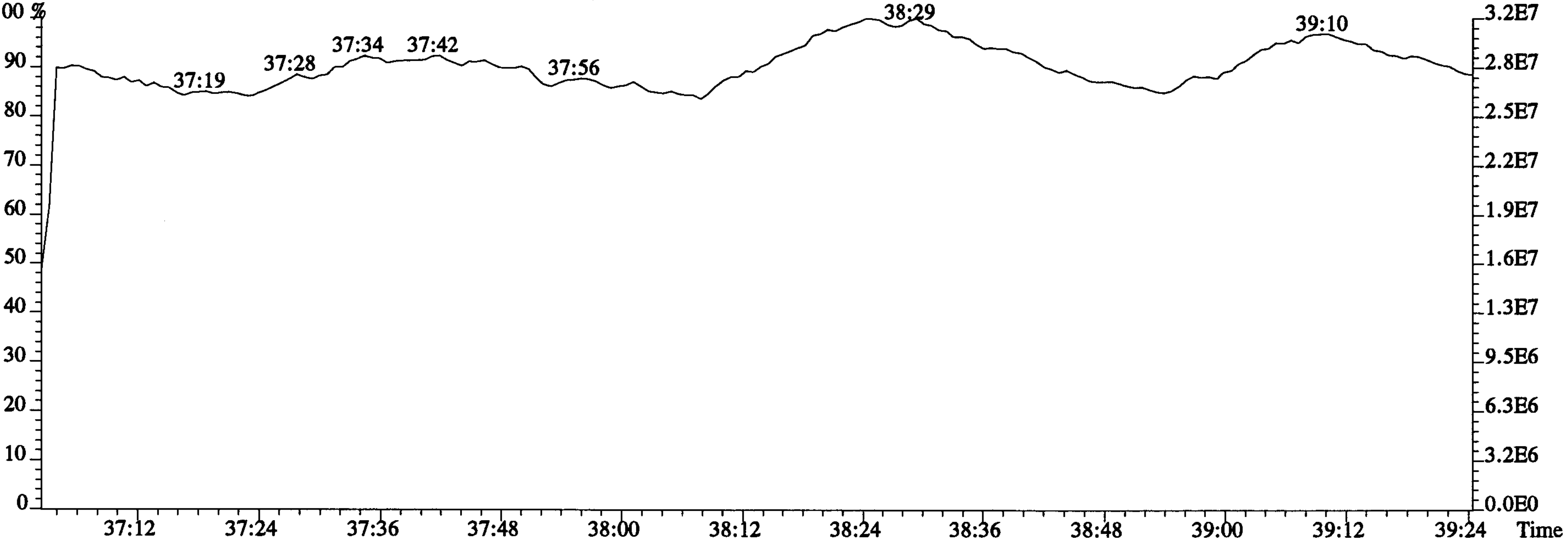
File:14OC104D5 #1-201 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES



File:14OC104D5 #1-192 Acq:16-OCT-2010 18:05:15 GC EI+ Voltage SIR Autospec-UltimaE
Sample#76 Text:ST1014G :CS3 10DXN461 Exp:DIOXINRES
454.9728 S:76 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:76 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

AK 9/15/10

ICAL ID (DB225, DB225AIR)072610 5D2R

Method ID 8290, 1613B, 23, 0023A, T09, Tetras, 8290A

Date Scanned 8-13-10 KSS rescan 9/16/10

Column ID DB225

Instrument ID 5D2

STD ID's ST0726 (A, B, C, D, E)

STD Solution 10DXN342, 10DXN335, 10DXN336, 10DXN337, 10DXN339

GC Program DB225

Multiplier Setting 750

Analyzed By KSS

Date Analyzed 7-26-10

Prepared By KSS, NK

Date Prepared 7-26-10

Reviewed By KSS, MG

Date Reviewed 7/26/10, 9/15/10

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?	NA	NA

COMMENTS:

CS3 13C-1,2,3,4-TCDD RT = 15:10

*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: 21AP105D2    Analyte: DB225          Cal: DB2250726105D2R

     ST0726A :CS-1 10DXN342 RI    ST0726B :CS-2 10DXN335      ST0726C :CS-3 10DXN336
     ST0726E :CS-4 10DXN337       ST0726D :CS-5 10DXN339

                                                   26JL105D2 26JL105D2 26JL105D2 26JL105D2 26JL105D2
                                                      S6        S5        S7        S9        S8
                 Name      Mean    S. D.     %RSD     RRF1      RRF2      RRF3      RRF4      RRF5
     13C-1,2,3,4-TCDD         -       -       - %       -         -         -         -         -

     13C-2,3,7,8-TCDF     2.111   0.055    2.59 %     2.14      2.09      2.12      2.03      2.18
         2,3,7,8-TCDF     1.056   0.035    3.32 %     1.11      1.04      1.02      1.06      1.04

     13C-2,3,7,8-TCDD     0.885   0.025    2.78 %     0.91      0.87      0.91      0.86      0.87
         2,3,7,8-TCDD     1.636   0.024    1.44 %     1.64      1.67      1.61      1.63      1.62

    37Cl-2,3,7,8-TCDD     1.290   0.038    2.92 %     1.28      1.24      1.34      1.28      1.31
```

```
Run #1   Filename 26JL105D2   S: 6    I: 1
Acquired: 26-JUL-10   11:25:40          Processed: 26-JUL-10  12:26:14
Run: 21AP105D2    Analyte: DB225          Cal: DB2250726105D2R
                                    Comments:
Sample text: ST0726A :CS-1 10DXN342 RI

                  Name         Resp   RA      RT      RRF              Mod?

      13C-1,2,3,4-TCDD     44088800 0.76 y  15:11        -      100.00  n

      13C-2,3,7,8-TCDF     94137800 0.80 y  16:22    2.135      100.00  n
          2,3,7,8-TCDF       523639 0.72 y  16:23    1.112        0.50  n

      13C-2,3,7,8-TCDD     40331700 0.79 y  14:57    0.915      100.00  n
          2,3,7,8-TCDD       331274 0.79 y  14:57    1.643        0.50  n

     37Cl-2,3,7,8-TCDD       283070 1.00 y  14:57    1.284        0.50  n
```

```
Run #2   Filename 26JL105D2   S: 5     I: 1
Acquired: 26-JUL-10   10:33:31           Processed: 26-JUL-10  12:26:15
Run: 21AP105D2    Analyte: DB225          Cal: DB2250726105D2R
                                      Comments:
Sample text: ST0726B :CS-2 10DXN335

                   Name         Resp   RA        RT       RRF                Mod?

     13C-1,2,3,4-TCDD    163657200 0.78 y  15:09         -       100.00   n

     13C-2,3,7,8-TCDF    341921000 0.80 y  16:22     2.089       100.00   n
         2,3,7,8-TCDF      7128550 0.76 y  16:22     1.042         2.00   n

     13C-2,3,7,8-TCDD    142455600 0.77 y  14:55     0.870       100.00   n
         2,3,7,8-TCDD      4759860 0.82 y  14:57     1.671         2.00   n

    37Cl-2,3,7,8-TCDD      4046840 1.00 y  14:57     1.236         2.00   n
```

```
Run #3   Filename 26JL105D2   S: 7    I: 1
Acquired: 26-JUL-10   11:59:28           Processed: 26-JUL-10  12:26:16
Run: 21AP105D2    Analyte: DB225          Cal: DB2250726105D2R
                                     Comments:
Sample text: ST0726C :CS-3 10DXN336

                  Name         Resp   RA       RT      RRF               Mod?

      13C-1,2,3,4-TCDD    128251800 0.79 y  15:10        -      100.00   n

      13C-2,3,7,8-TCDF    272023000 0.80 y  16:22    2.121      100.00   n
          2,3,7,8-TCDF     27756400 0.79 y  16:23    1.020       10.00   n

      13C-2,3,7,8-TCDD    116269100 0.80 y  14:56    0.907      100.00   n
          2,3,7,8-TCDD     18681120 0.82 y  14:57    1.607       10.00   n

     37Cl-2,3,7,8-TCDD     17122860 1.00 y  14:58    1.335       10.00   n
```

```
Run #4   Filename 26JL105D2   S: 9    I: 1
Acquired: 26-JUL-10   13:07:04          Processed: 26-JUL-10  13:28:30
Run: 21AP105D2    Analyte: DB225          Cal: DB2250726105D2R
                                       Comments:
Sample text: ST0726E :CS-4 10DXN337

                 Name          Resp   RA       RT      RRF                Mod?

      13C-1,2,3,4-TCDD    123056700 0.79 y  15:08        -      100.00  n

      13C-2,3,7,8-TCDF    250112000 0.82 y  16:21    2.032      100.00  n
          2,3,7,8-TCDF    106424700 0.78 y  16:22    1.064       40.00  n

      13C-2,3,7,8-TCDD    105587000 0.78 y  14:54    0.858      100.00  n
          2,3,7,8-TCDD     69020900 0.83 y  14:55    1.634       40.00  n

     37Cl-2,3,7,8-TCDD     62912600 1.00 y  14:55    1.278       40.00  n
```

```
Run #5   Filename 26JL105D2   S: 8    I: 1
Acquired: 26-JUL-10   12:33:16          Processed: 26-JUL-10  13:28:36
Run: 21AP105D2    Analyte: DB225          Cal: DB2250726105D2R
                                        Comments:
Sample text: ST0726D :CS-5 10DXN339

                  Name          Resp  RA       RT       RRF                Mod?

      13C-1,2,3,4-TCDD    131444700 0.78 y  15:10         -      100.00   n

      13C-2,3,7,8-TCDF    286396000 0.80 y  16:22     2.179      100.00   n
          2,3,7,8-TCDF    596616000 0.78 y  16:23     1.042      200.00   n

      13C-2,3,7,8-TCDD    114849700 0.78 y  14:56     0.874      100.00   n
          2,3,7,8-TCDD    373245000 0.82 y  14:57     1.625      200.00   n

     37Cl-2,3,7,8-TCDD    345562000 1.00 y  14:57     1.314      200.00   n
```

Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R

ST0726A :CS-1 10DXN342 RI ST0726B :CS-2 10DXN335 ST0726C :CS-3 10DXN336
ST0726E :CS-4 10DXN337 ST0726D :CS-5 10DXN339

				26JL105D2	26JL105D2	26JL105D2	26JL105D2	26JL105D2
				S6	S5	S7	S9	S8
Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	2.111	0.055	2.59 %	2.14	2.09	2.12	2.03	2.18
2,3,7,8-TCDF	1.056	0.035	3.32 %	1.11	1.04	1.02	1.06	1.04
13C-2,3,7,8-TCDD	0.885	0.025	2.78 %	0.91	0.87	0.91	0.86	0.87
2,3,7,8-TCDD	1.636	0.024	1.44 %	1.64	1.67	1.61	1.63	1.62
37Cl-2,3,7,8-TCDD	1.458	0.044	3.01 %	1.40	1.42	1.47	1.49	1.50

```
Run #1   Filename 26JL105D2   S: 6    I: 1
Acquired: 26-JUL-10   11:25:40          Processed: 15-SEP-10  09:51:11
Run: 21AP105D2    Analyte: DB225AIR       Cal: DB225AIR0726105D2R
                                       Comments:
Sample text: ST0726A :CS-1 10DXN342 RI

                    Name           Resp   RA       RT       RRF                Mod?

      13C-1,2,3,4-TCDD       44088800 0.76 y  15:11         -       100.00   n

      13C-2,3,7,8-TCDF       94137800 0.80 y  16:22     2.135       100.00   n
          2,3,7,8-TCDF         523639 0.72 y  16:23     1.112         0.50   n

      13C-2,3,7,8-TCDD       40331700 0.79 y  14:57     0.915       100.00   n
          2,3,7,8-TCDD         331274 0.79 y  14:57     1.643         0.50   n

     37Cl-2,3,7,8-TCDD         283070 1.00 y  14:57     1.404         0.50   n
```

```
Run #2   Filename 26JL105D2   S: 5    I: 1
Acquired: 26-JUL-10   10:33:31          Processed: 15-SEP-10  09:51:11
Run: 21AP105D2    Analyte: DB225AIR      Cal: DB225AIR0726105D2R
                                       Comments:
Sample text: ST0726B :CS-2 10DXN335

                     Name           Resp   RA       RT      RRF                 Mod?

      13C-1,2,3,4-TCDD    163657200 0.78 y  15:09          -      100.00   n

      13C-2,3,7,8-TCDF    341921000 0.80 y  16:22      2.089      100.00   n
          2,3,7,8-TCDF      7128550 0.76 y  16:22      1.042        2.00   n

      13C-2,3,7,8-TCDD    142455600 0.77 y  14:55      0.870      100.00   n
          2,3,7,8-TCDD      4759860 0.82 y  14:57      1.671        2.00   n

     37Cl-2,3,7,8-TCDD      4046840 1.00 y  14:57      1.420        2.00   n
```

```
Run #3   Filename 26JL105D2   S: 7    I: 1
Acquired: 26-JUL-10   11:59:28          Processed: 15-SEP-10  09:51:12
Run: 21AP105D2    Analyte: DB225AIR       Cal: DB225AIR0726105D2R
                                     Comments:
Sample text: ST0726C :CS-3 10DXN336

                 Name          Resp   RA       RT      RRF               Mod?

      13C-1,2,3,4-TCDD    128251800 0.79 y  15:10        -      100.00   n

      13C-2,3,7,8-TCDF    272023000 0.80 y  16:22    2.121      100.00   n
          2,3,7,8-TCDF     27756400 0.79 y  16:23    1.020       10.00   n

      13C-2,3,7,8-TCDD    116269100 0.80 y  14:56    0.907      100.00   n
          2,3,7,8-TCDD     18681120 0.82 y  14:57    1.607       10.00   n

     37Cl-2,3,7,8-TCDD     17122860 1.00 y  14:58    1.473       10.00   n
```

```
Run #4   Filename 26JL105D2   S: 9    I: 1
Acquired: 26-JUL-10   13:07:04          Processed: 15-SEP-10  09:51:13
Run: 21AP105D2    Analyte: DB225AIR       Cal: DB225AIR0726105D2R
                                       Comments:
Sample text: ST0726E :CS-4 10DXN337

                  Name           Resp   RA        RT       RRF                Mod?

      13C-1,2,3,4-TCDD      123056800 0.79 y  15:08         -      100.00   n

      13C-2,3,7,8-TCDF      250112000 0.82 y  16:21     2.032      100.00   n
          2,3,7,8-TCDF      106424800 0.78 y  16:22     1.064       40.00   n

      13C-2,3,7,8-TCDD      105587000 0.78 y  14:54     0.858      100.00   n
          2,3,7,8-TCDD       69020900 0.83 y  14:55     1.634       40.00   n

     37Cl-2,3,7,8-TCDD       62912400 1.00 y  14:55     1.490       40.00   n
```

```
Run #5   Filename 26JL105D2   S: 8     I: 1
Acquired: 26-JUL-10   12:33:16          Processed: 15-SEP-10  09:51:13
Run: 21AP105D2    Analyte: DB225AIR       Cal: DB225AIR0726105D2R
                                       Comments:
Sample text: ST0726D :CS-5 10DXN339

                    Name           Resp   RA       RT       RRF                Mod?

      13C-1,2,3,4-TCDD    131444700 0.78 y  15:10         -      100.00   n

      13C-2,3,7,8-TCDF    286396000 0.80 y  16:22     2.179      100.00   n
          2,3,7,8-TCDF    596616000 0.78 y  16:23     1.042      200.00   n

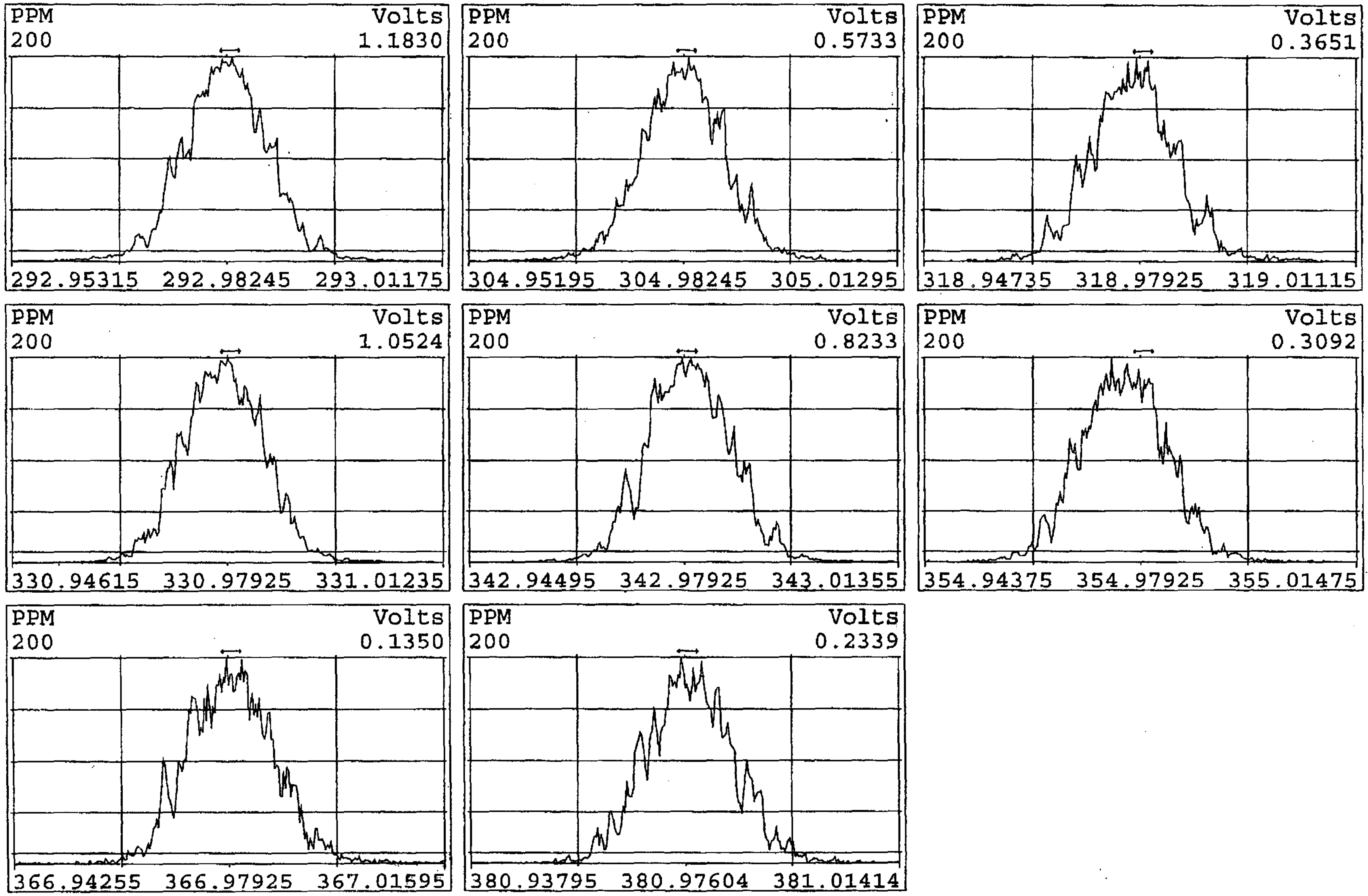
      13C-2,3,7,8-TCDD    114849700 0.78 y  14:56     0.874      100.00   n
          2,3,7,8-TCDD    373245000 0.82 y  14:57     1.625      200.00   n

     37Cl-2,3,7,8-TCDD    345562000 1.00 y  14:57     1.504      200.00   n
```

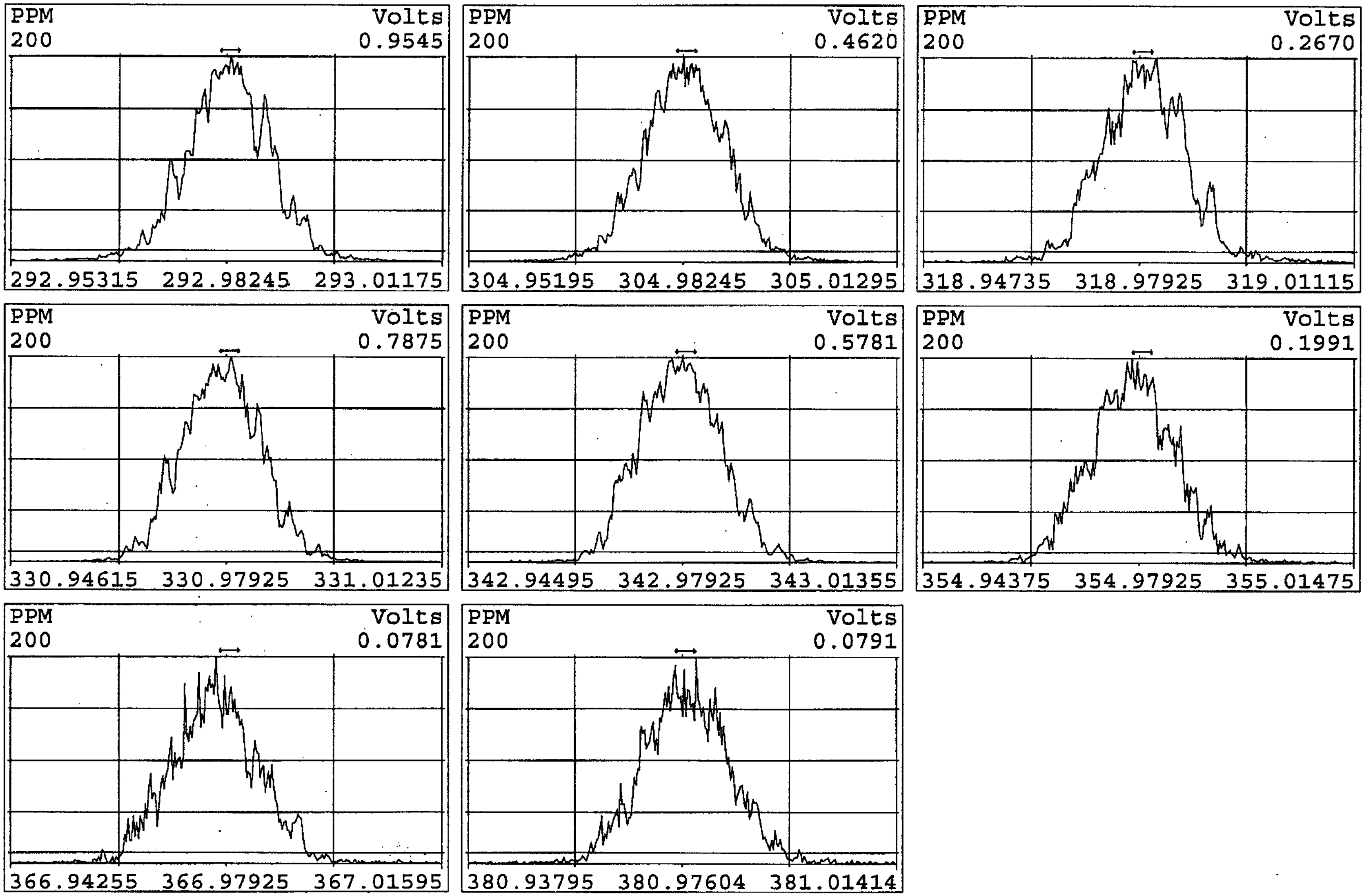
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
26JL105D2	1	CP0726	DB-225 CPSM 3732-06				1.0000	
26JL105D2	2	SB0726	Solvent Blank C-14				1.0000	
26JL105D2	3	ST0726	CS-0.2 10DXN333				1.0000	
26JL105D2	4	ST0726A	CS-1 10DXN342				1.0000	
26JL105D2	5	ST0726B	CS-2 10DXN335				1.0000	
26JL105D2	6	ST0726A	CS-1 10DXN342 RI				1.0000	
26JL105D2	7	ST0726C	CS-3 10DXN336				1.0000	
26JL105D2	8	ST0726D	CS-5 10DXN339				1.0000	
26JL105D2	9	ST0726E	CS-4 10DXN337				1.0000	
26JL105D2	10	ST0726F	2nd Source 10DXN340				1.0000	
26JL105D2	11						1.0000	
26JL105D2	12						1.0000	
26JL105D2	13						1.0000	
26JL105D2	14		KSS 07/26/10				1.0000	

logfile v'd
NK 7/26/10

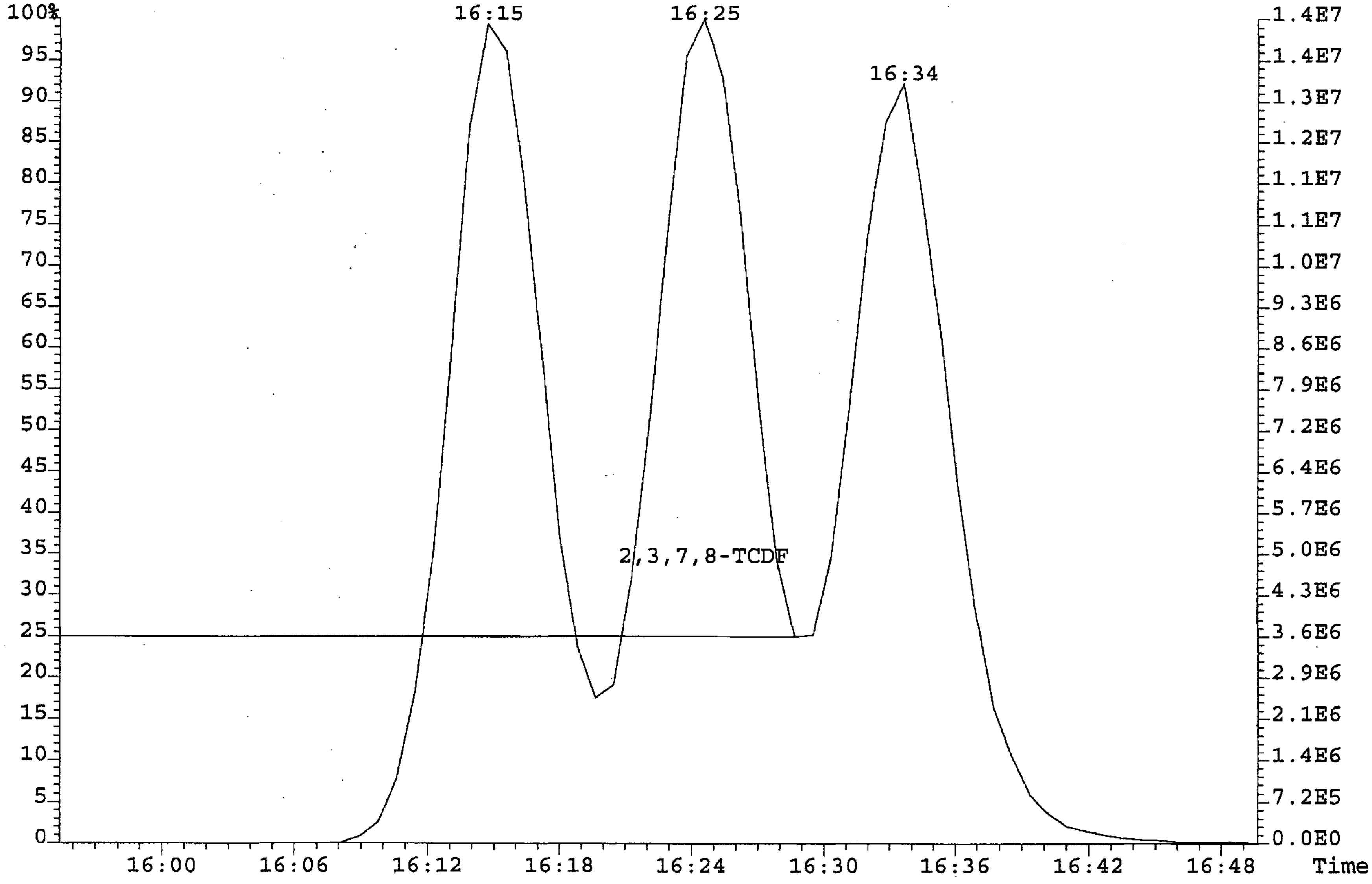
Peak Locate Examination:26-JUL-2010:08:17 File:26JL105D2
Experiment:DB225RES Function:1 Reference:PFK



Peak Locate Examination:26-JUL-2010:14:43 File:26JL105D2ENDRES
Experiment:DB225RES Function:1 Reference:PFK



File:26JL105D2 #1-720 Acq:26-JUL-2010 08:18:34 GC EI+ Voltage SIR 70SE
303.9016 BSUB(128,15,-3.0) Exp:DB225RES Noise:1410



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   Quantitation Summary     TestAmerica West Sacramento                          Page 1 o

Run text: ST0726F         Sample text: ST0726F :2nd Source 10DXN340
Run #6  Filename: 26JL105D2   S: 10   I: 1      Results: 26JL105D2DB225
Acquired: 26-JUL-10   13:40:52          Processed: 26-JUL-10  14:33:34
Run: 26JL105D2       Analyte: DB225           Cal: DB2250726105D2
Factor 1: 800.000     Factor 2: 20.000      Sample size: 1.000000   Spiked @ 200   7/26/10 KSS

                 Name          Resp   RA       RT  RRF            Conc            EDL       Rec   M

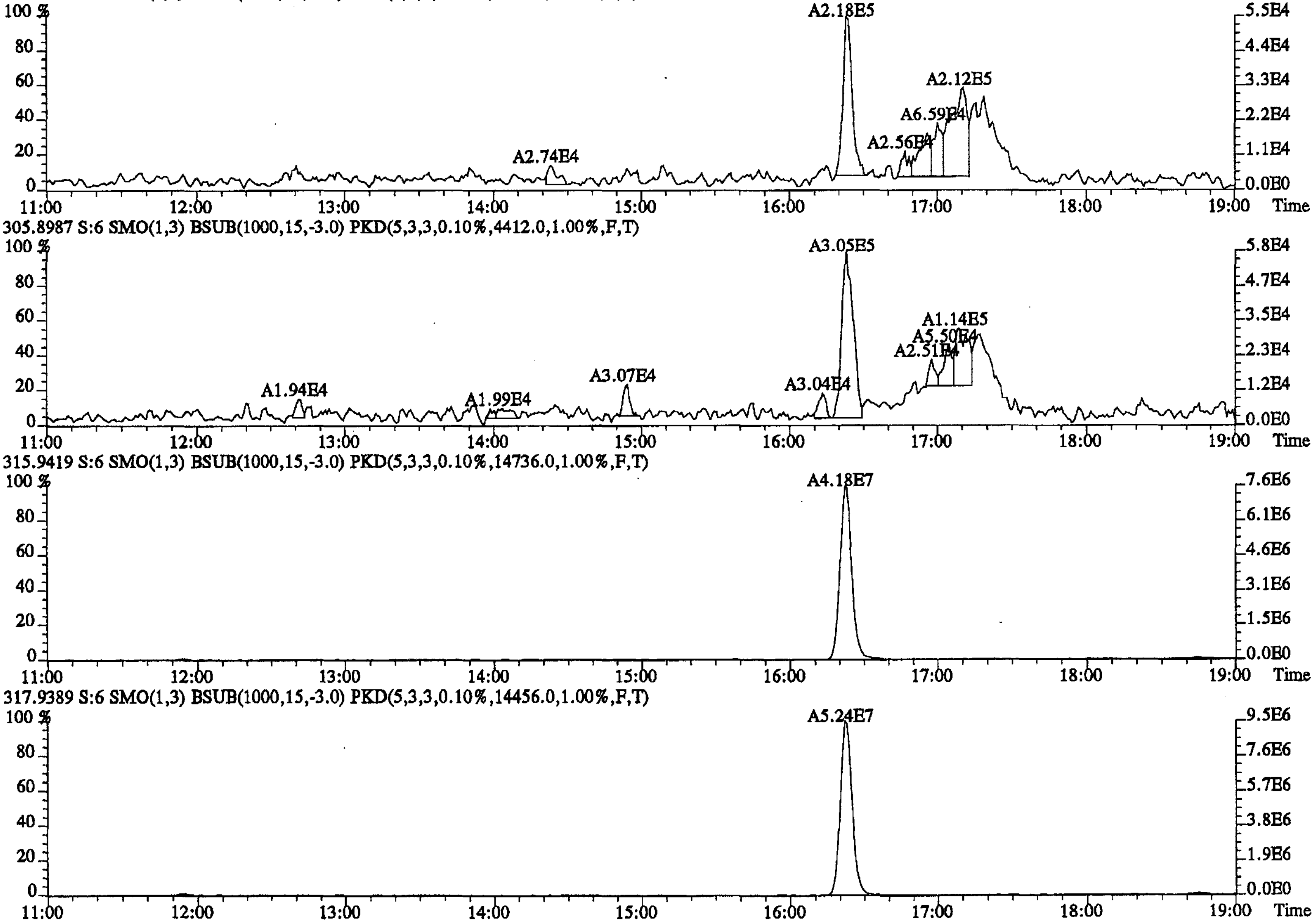
    13C-1,2,3,4-TCDD  117485800 0.79 y  15:10    -           99.48              -         -   n

    13C-2,3,7,8-TCDF  262969000 0.78 y  16:22 2.11         2120.25            5.39     106.0   n
        2,3,7,8-TCDF   25049900 0.79 y  16:23 1.06          180.39✓ 90%       1.31         -   n

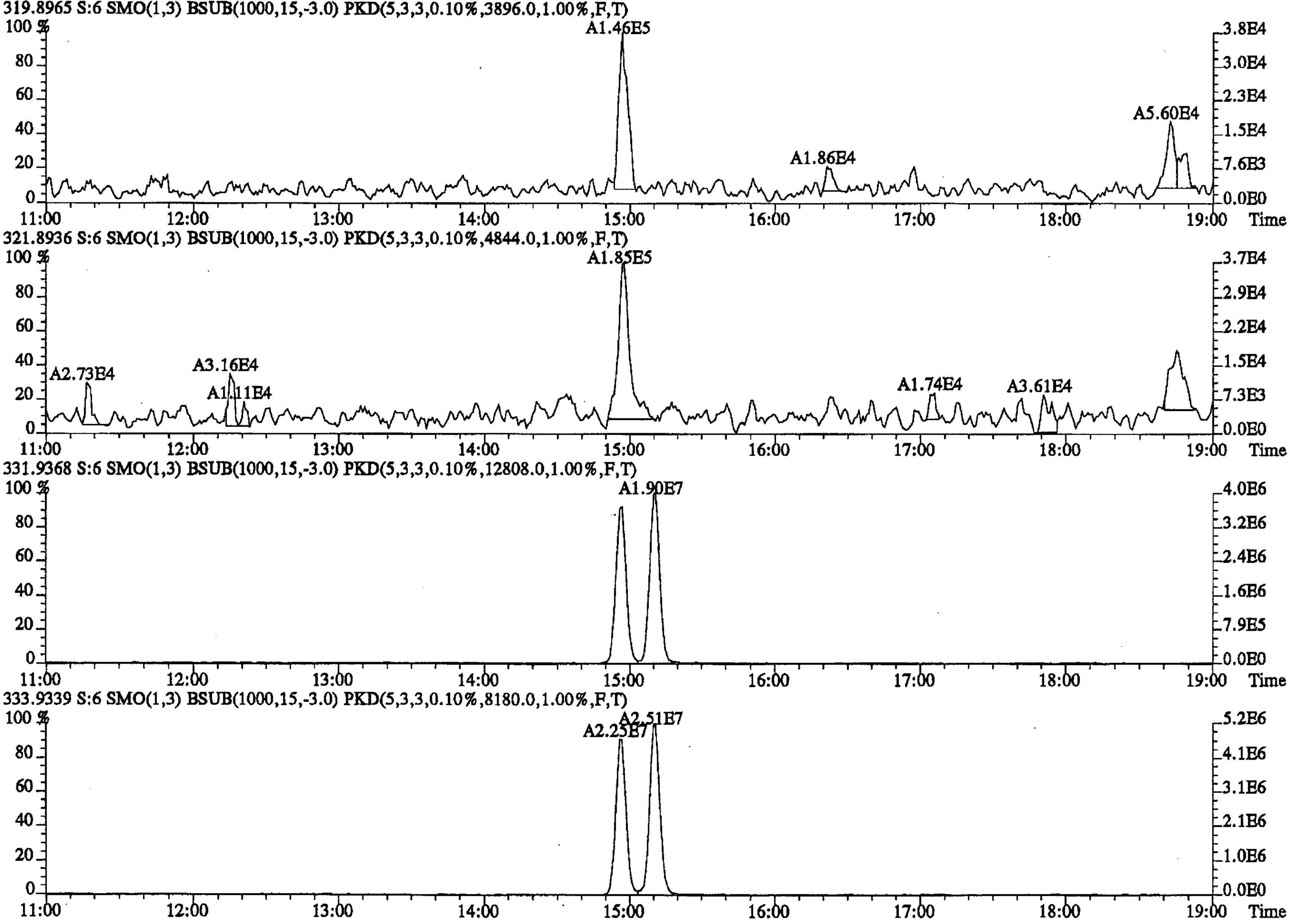
    13C-2,3,7,8-TCDD  111918800 0.79 y  14:56 0.88         2153.49            7.15     107.7   n
        2,3,7,8-TCDD   17243860 0.81 y  14:57 1.64          188.37✓ 94%       1.74         -   n

   37Cl-2,3,7,8-TCDD   31323200 1.00 y  14:57 1.29          413.47            2.68     103.4   n
```

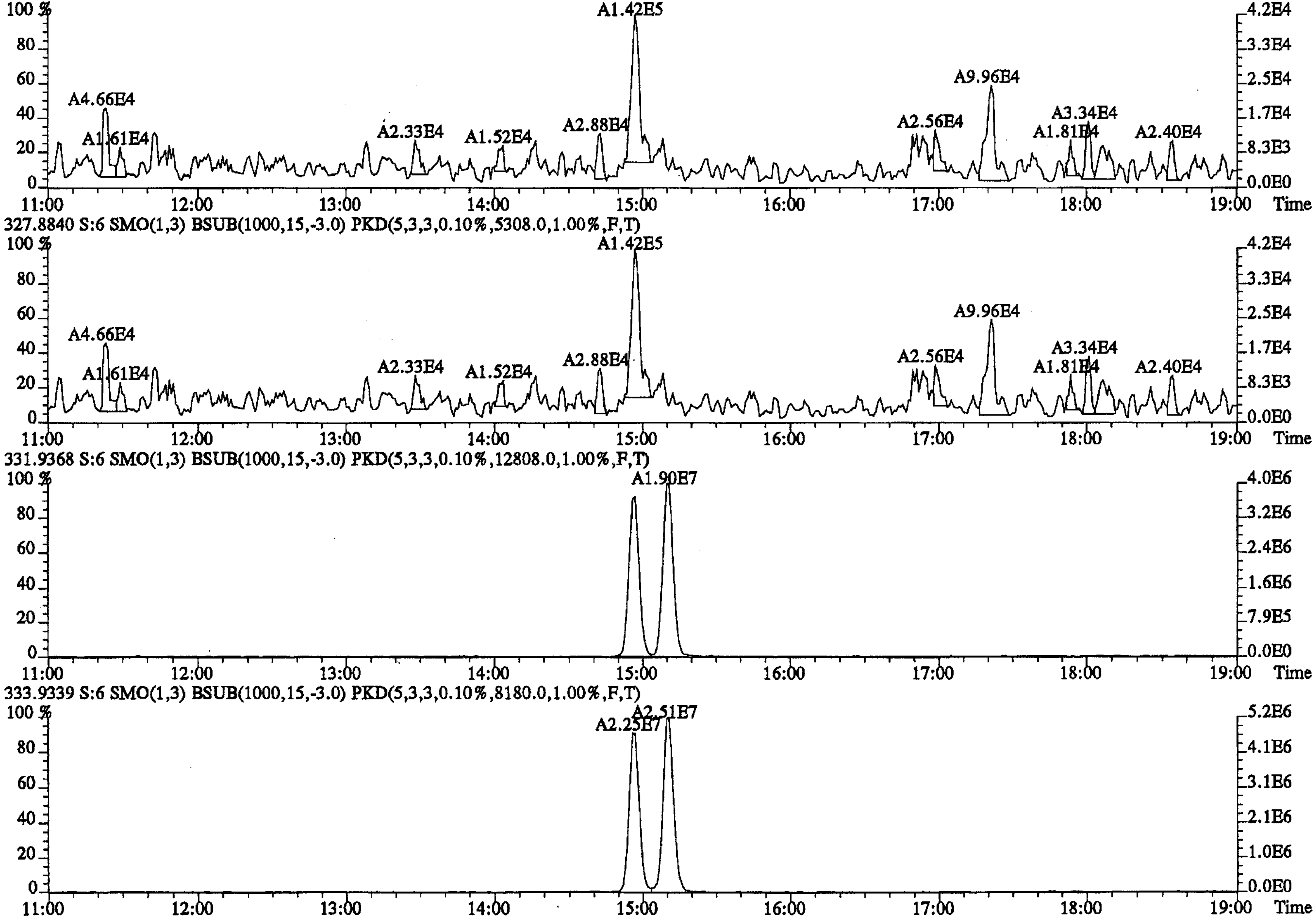
File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0726A :CS-1 10DXN342 RI Exp:DB225RES
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3908.0,1.00%,F,T)



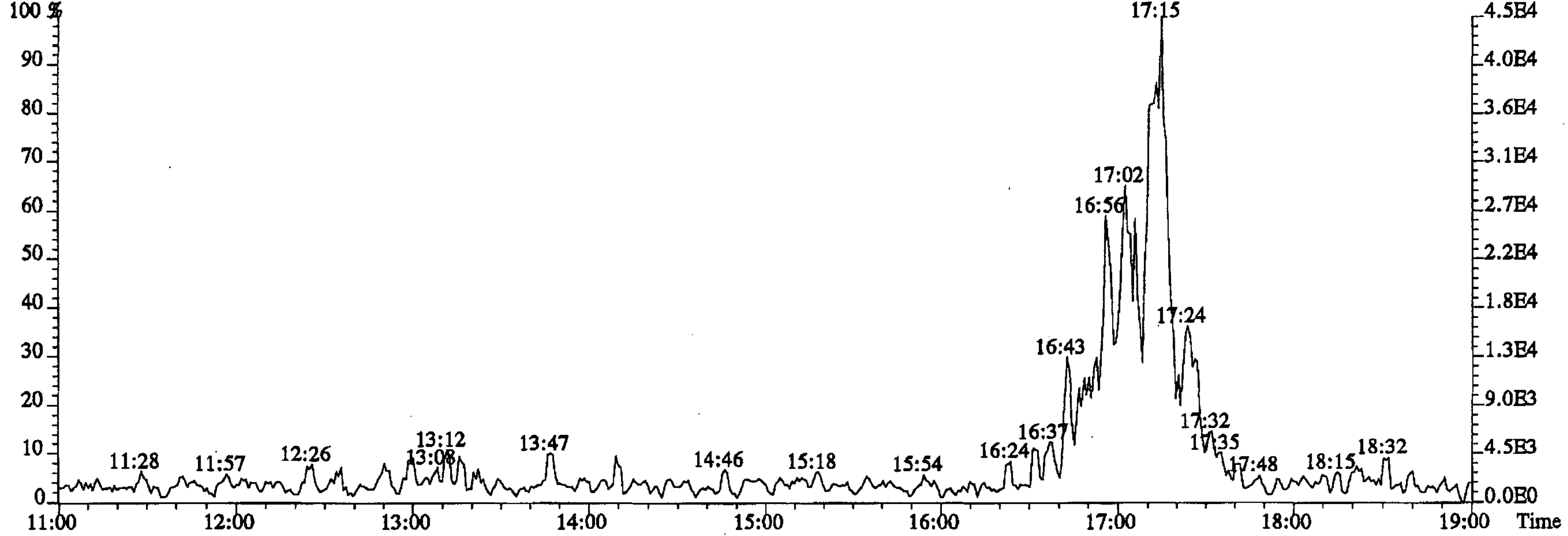
File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0726A :CS-1 10DXN342 RI Exp:DB225RES



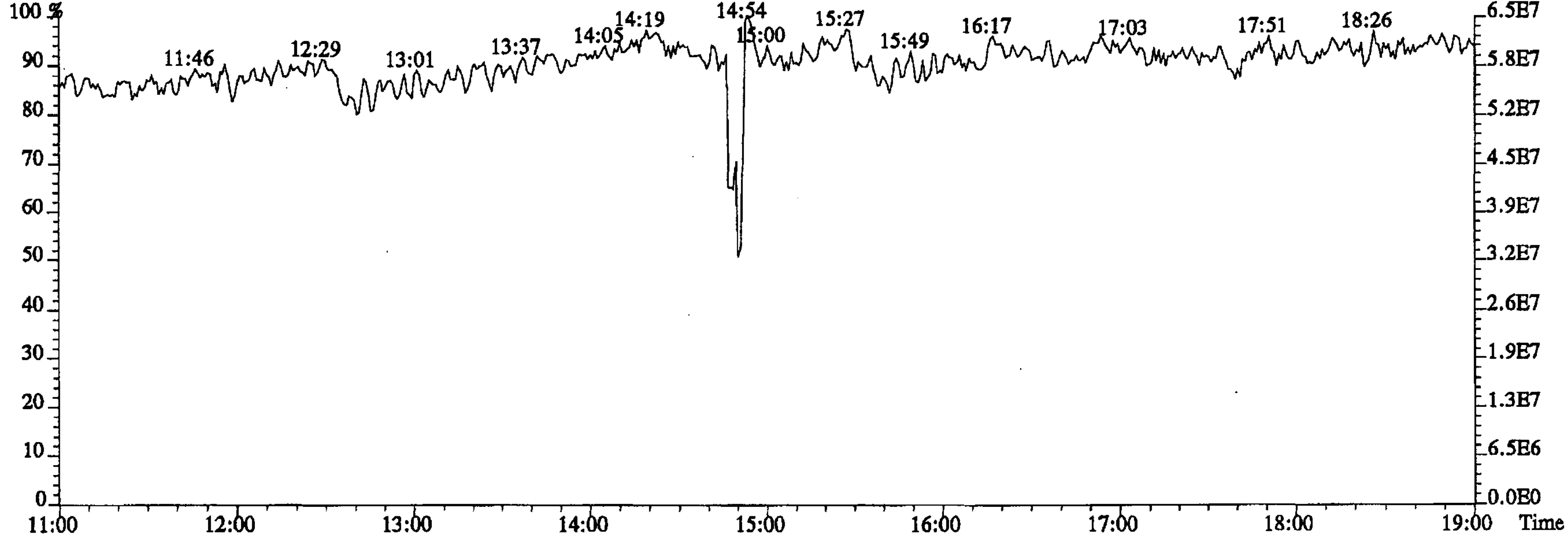
File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0726A :CS-1 10DXN342 RI Exp:DB225RES
327.8840 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5308.0,1.00%,F,T)



File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST0726A :CS-1 10DXN342 RI Exp:DB225RES
375.8364 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1976.0,1.00%,F,T)

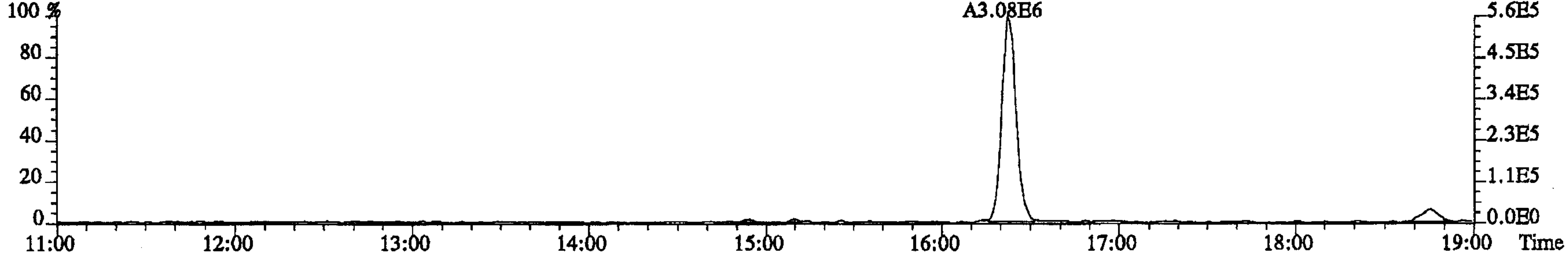


330.9792 S:6 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

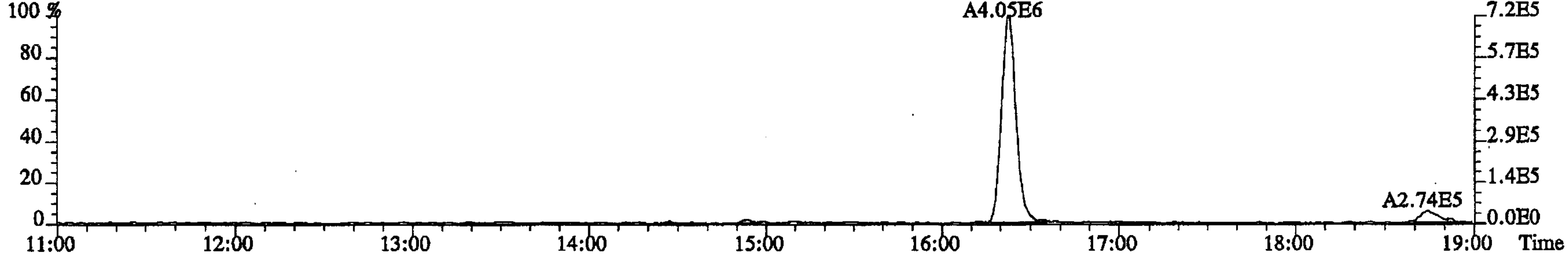


File:26JL105D2 #1-1242 Acq:26-JUL-2010 10:33:31 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0726B :CS-2 10DXN335 Exp:DB225RES

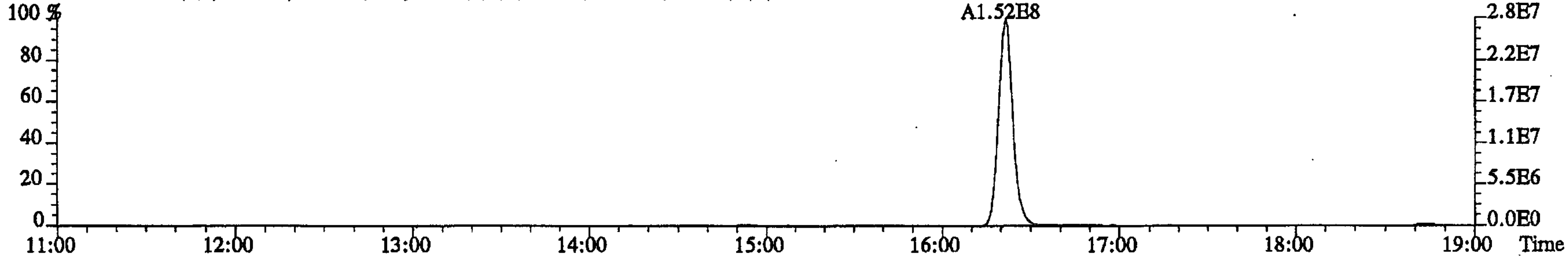
303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5060.0,1.00%,F,T)



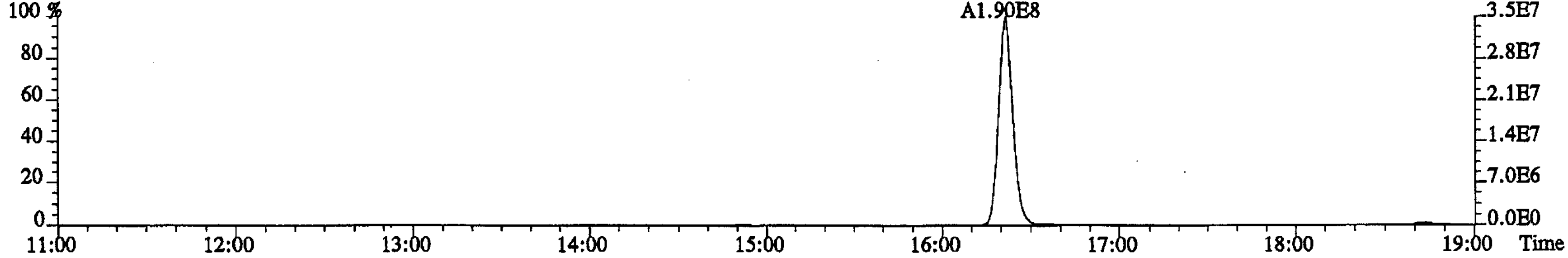
305.8987 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6096.0,1.00%,F,T)



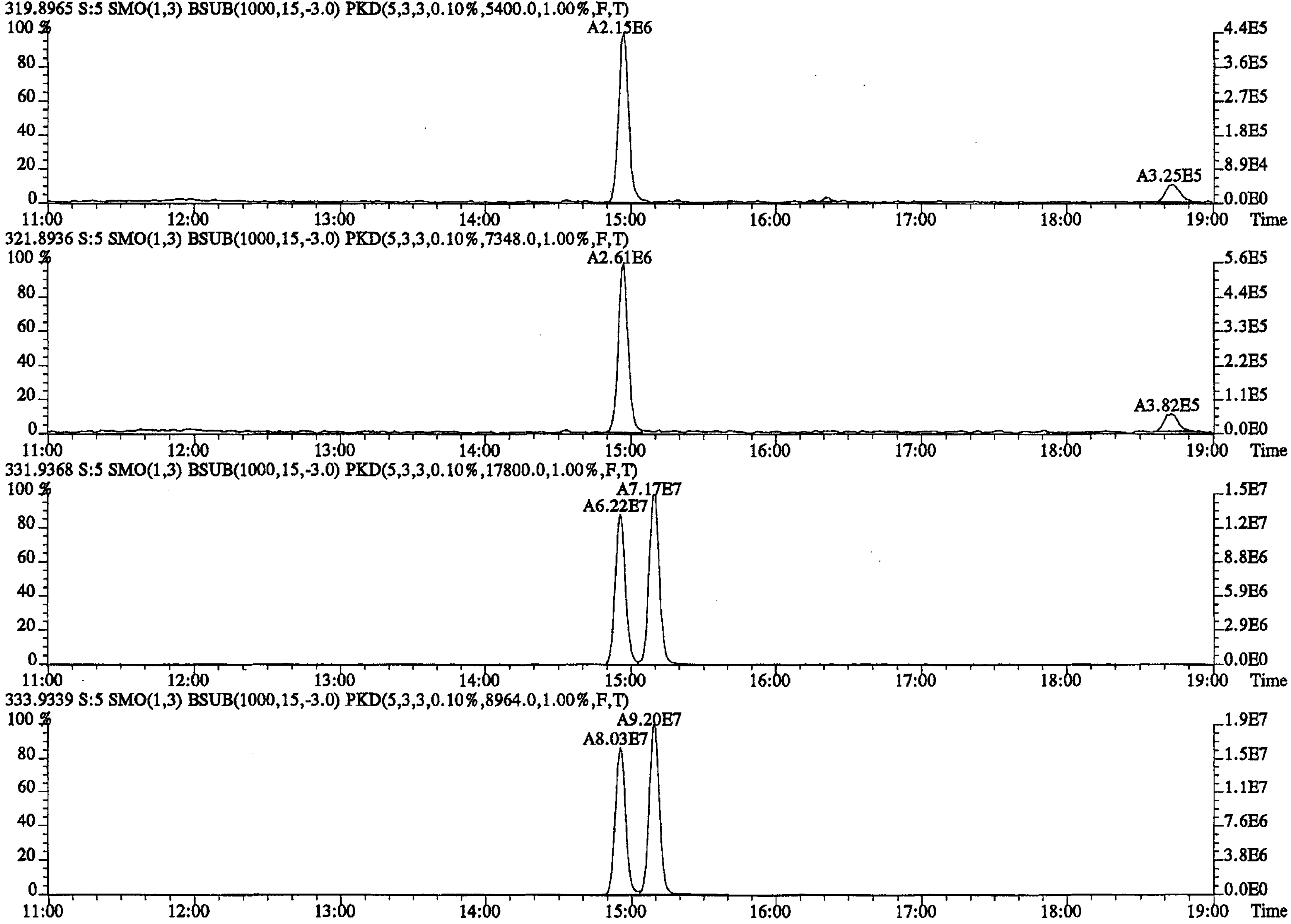
315.9419 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16484.0,1.00%,F,T)



317.9389 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18616.0,1.00%,F,T)

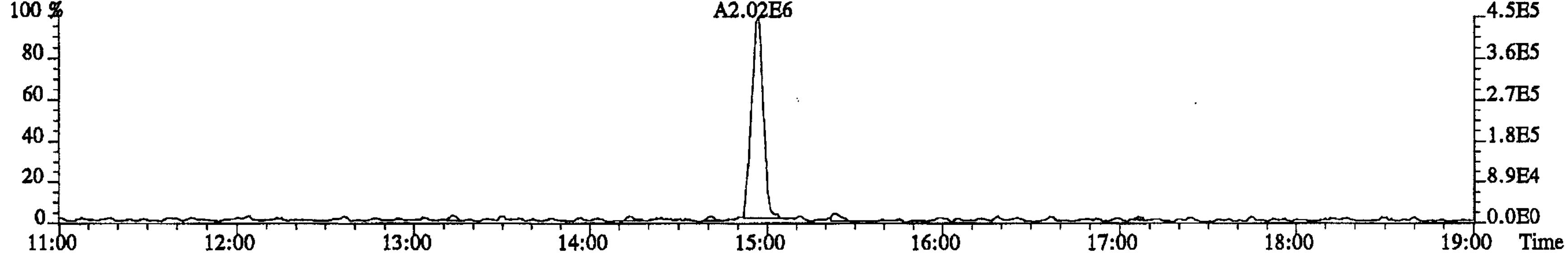


File:26JL105D2 #1-1242 Acq:26-JUL-2010 10:33:31 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0726B :CS-2 10DXN335 Exp:DB225RES

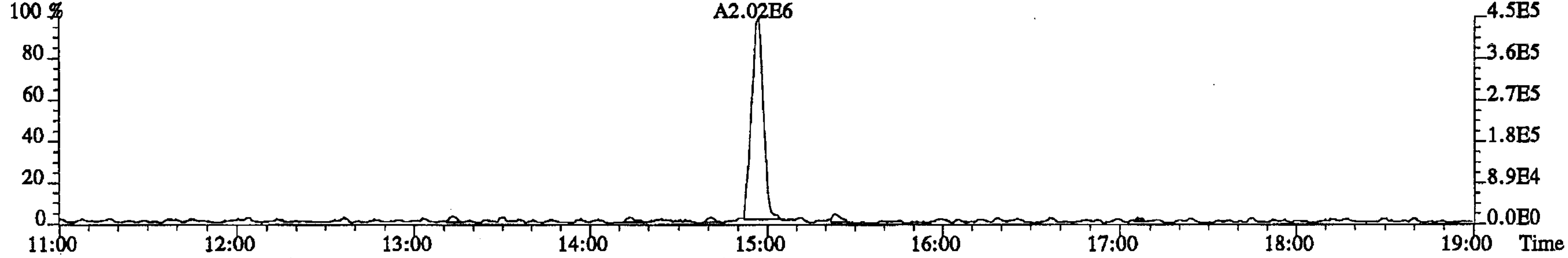


File:26JL105D2 #1-1242 Acq:26-JUL-2010 10:33:31 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0726B :CS-2 10DXN335 Exp:DB225RES

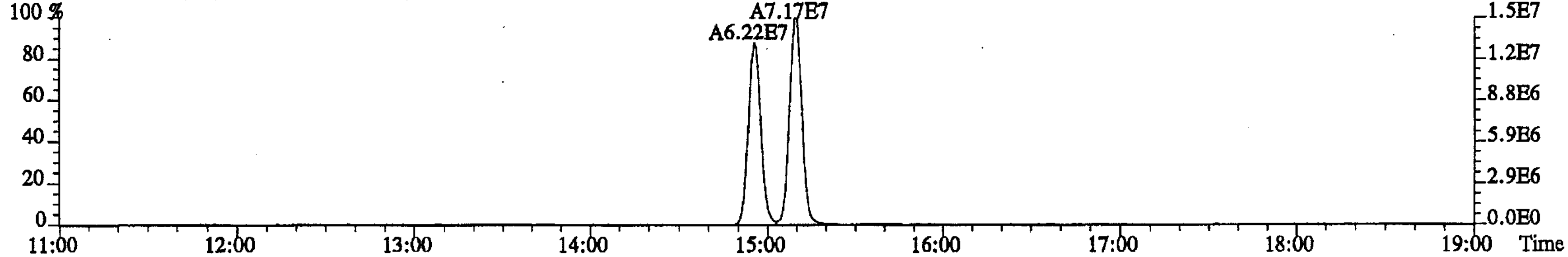
327.8840 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7920.0,1.00%,F,T)



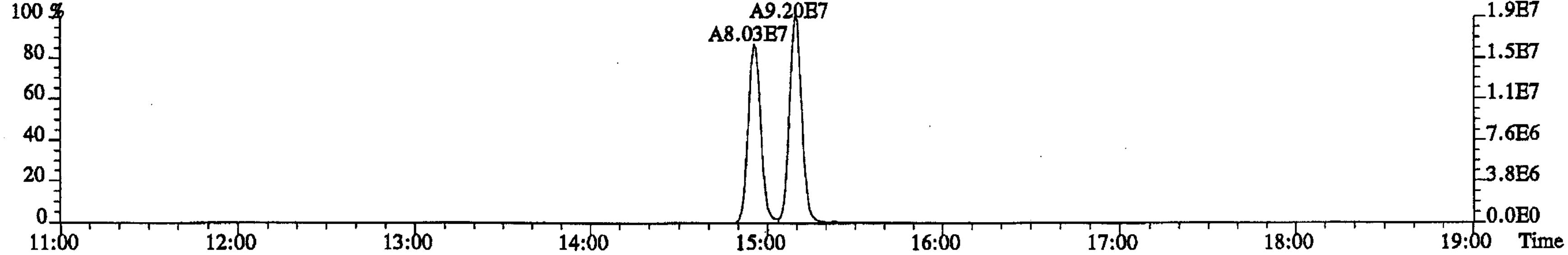
327.8840 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7920.0,1.00%,F,T)



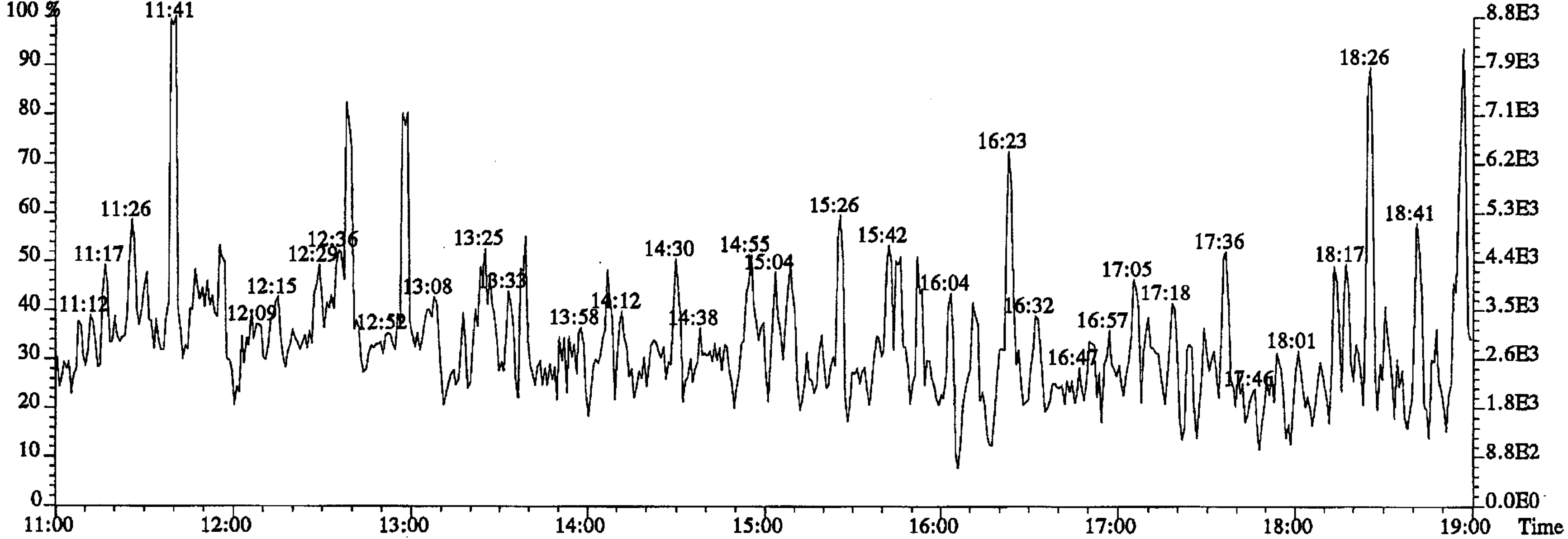
331.9368 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17800.0,1.00%,F,T)



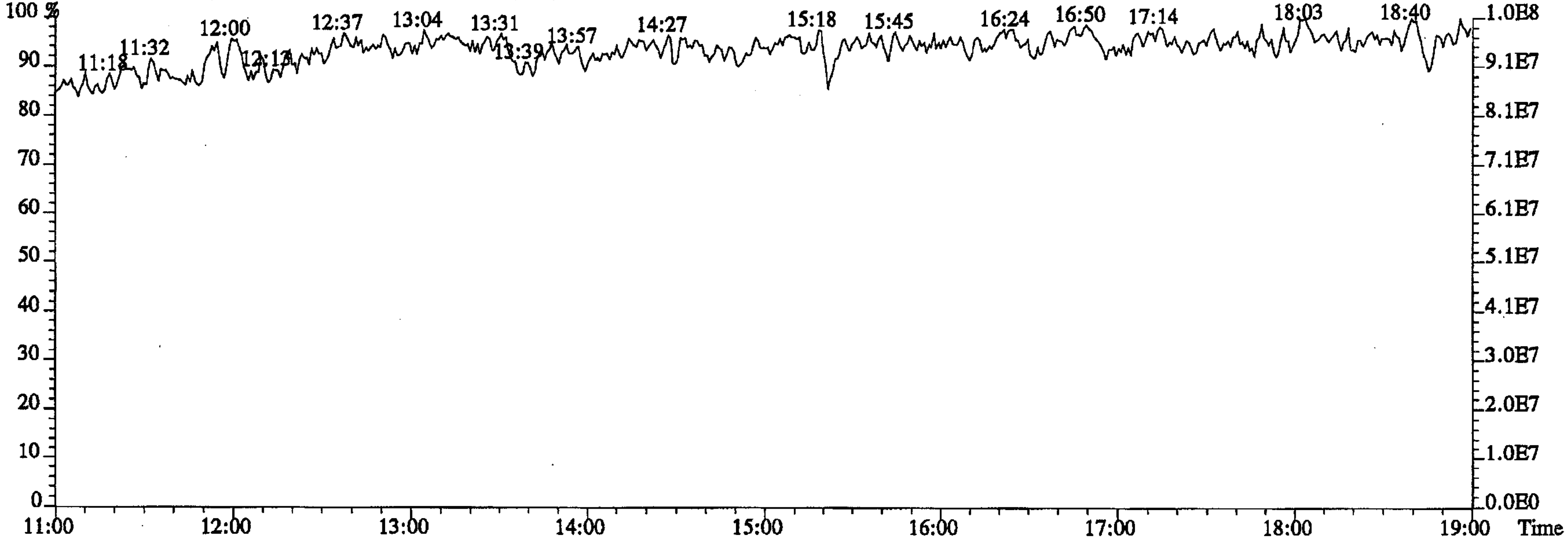
333.9339 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8964.0,1.00%,F,T)



File:26JL105D2 #1-1242 Acq:26-JUL-2010 10:33:31 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST0726B :CS-2 10DXN335 Exp:DB225RES
375.8364 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3156.0,1.00%,F,T)

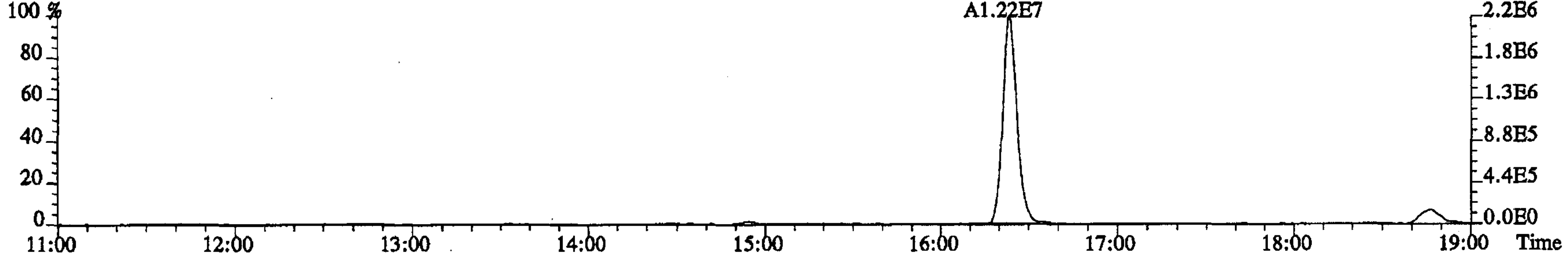


330.9792 S:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

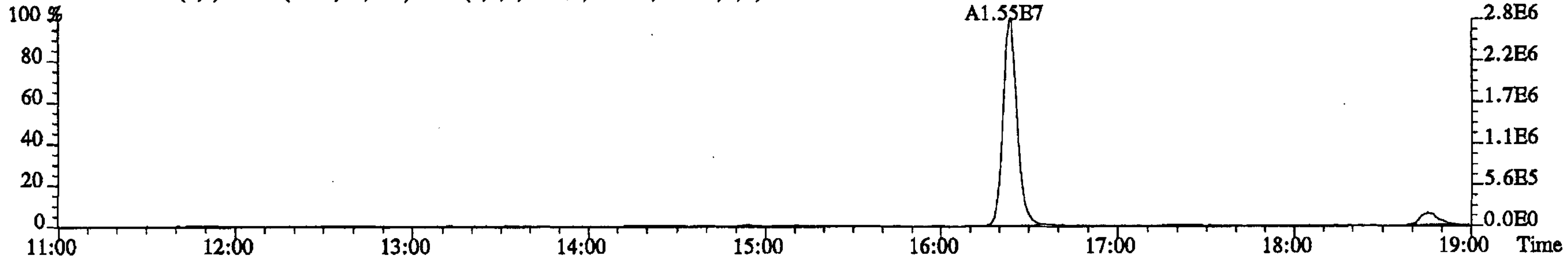


File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0726C :CS-3 10DXN336 Exp:DB225RES

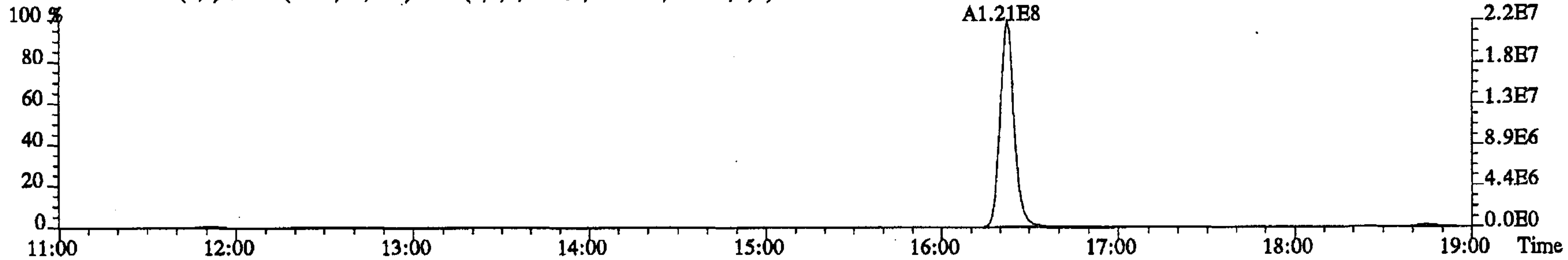
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3660.0,1.00%,F,T)



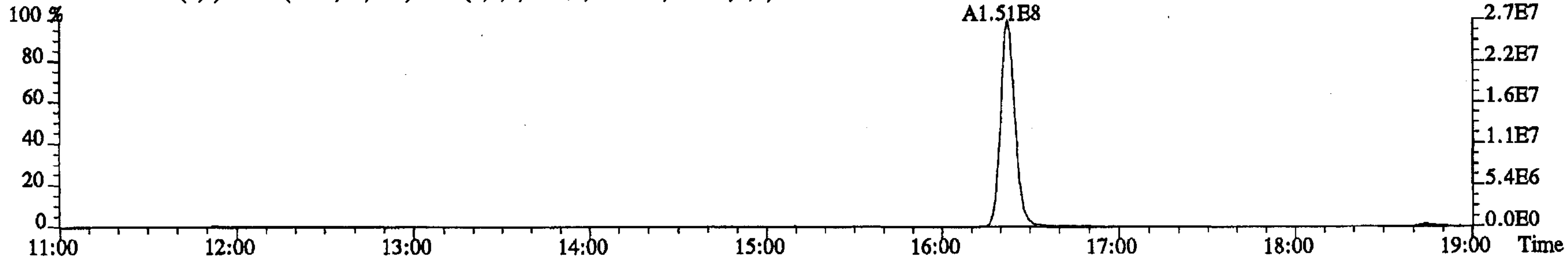
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5000.0,1.00%,F,T)



315.9419 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14468.0,1.00%,F,T)

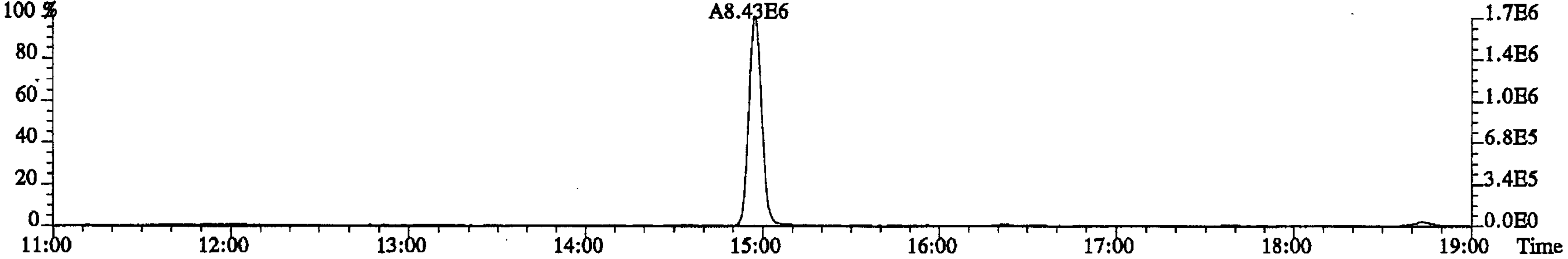


317.9389 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17832.0,1.00%,F,T)

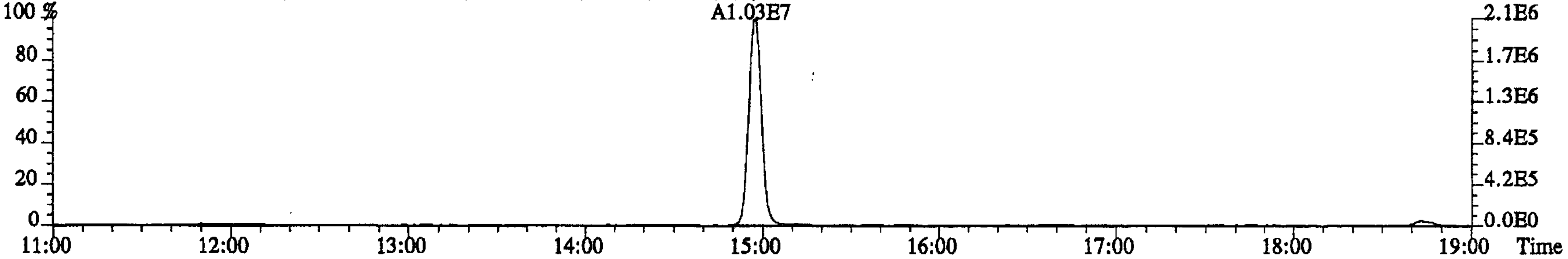


File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0726C :CS-3 10DXN336 Exp:DB225RES

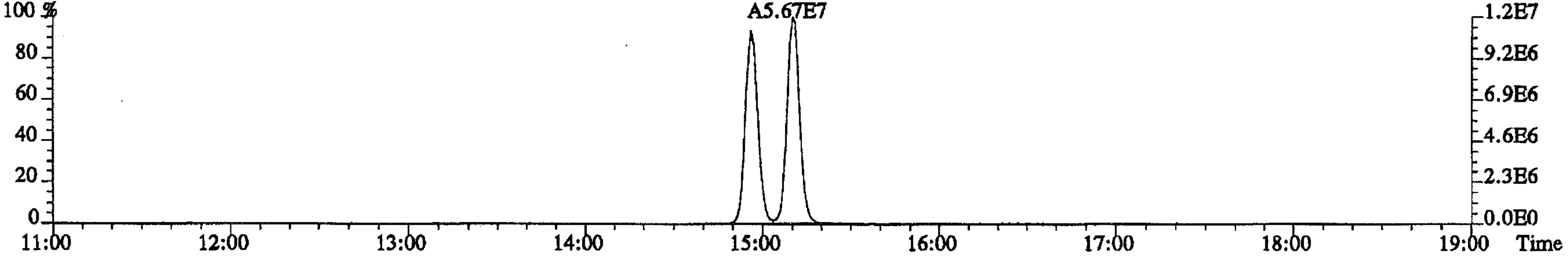
319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4208.0,1.00%,F,T)



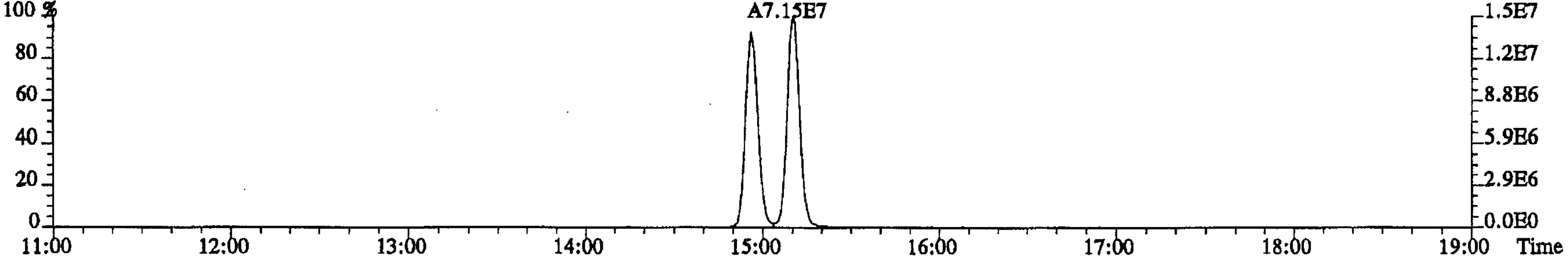
321.8936 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5408.0,1.00%,F,T)



331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13320.0,1.00%,F,T)

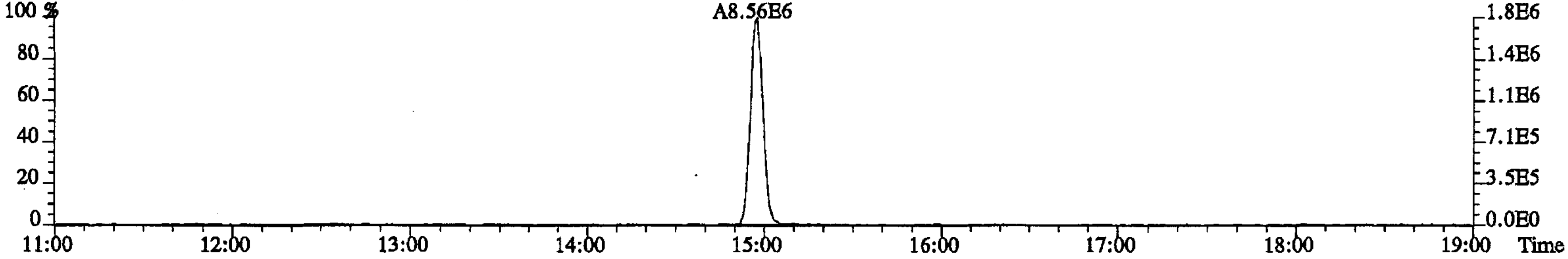


333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7524.0,1.00%,F,T)

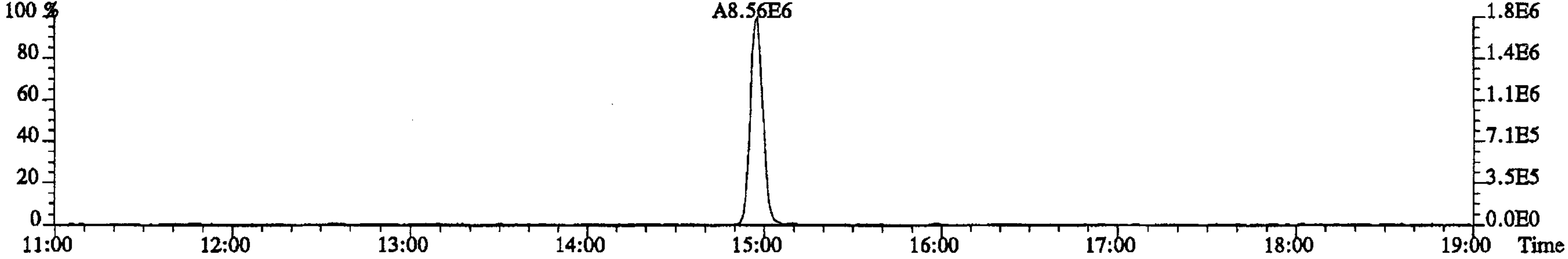


File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0726C :CS-3 10DXN336 Exp:DB225RES

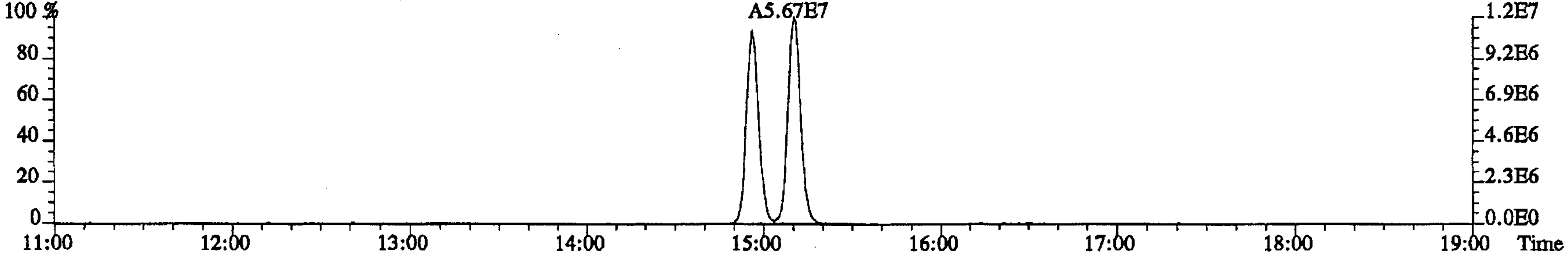
327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6008.0,1.00%,F,T)



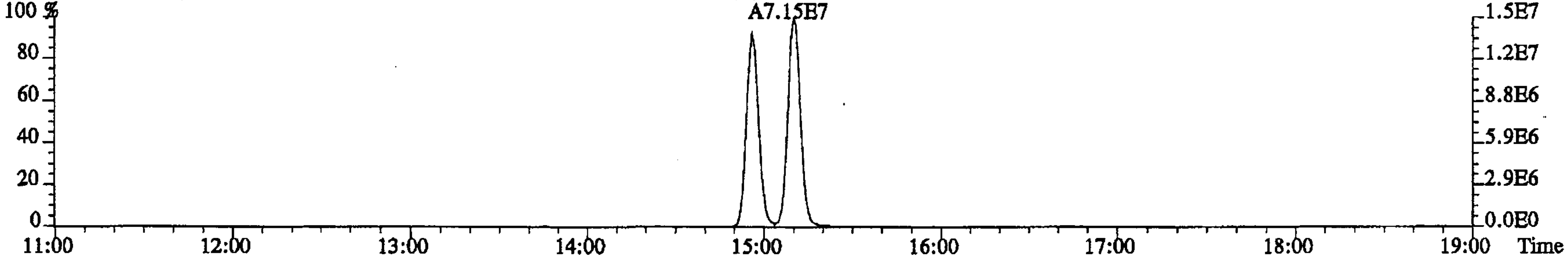
327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6008.0,1.00%,F,T)



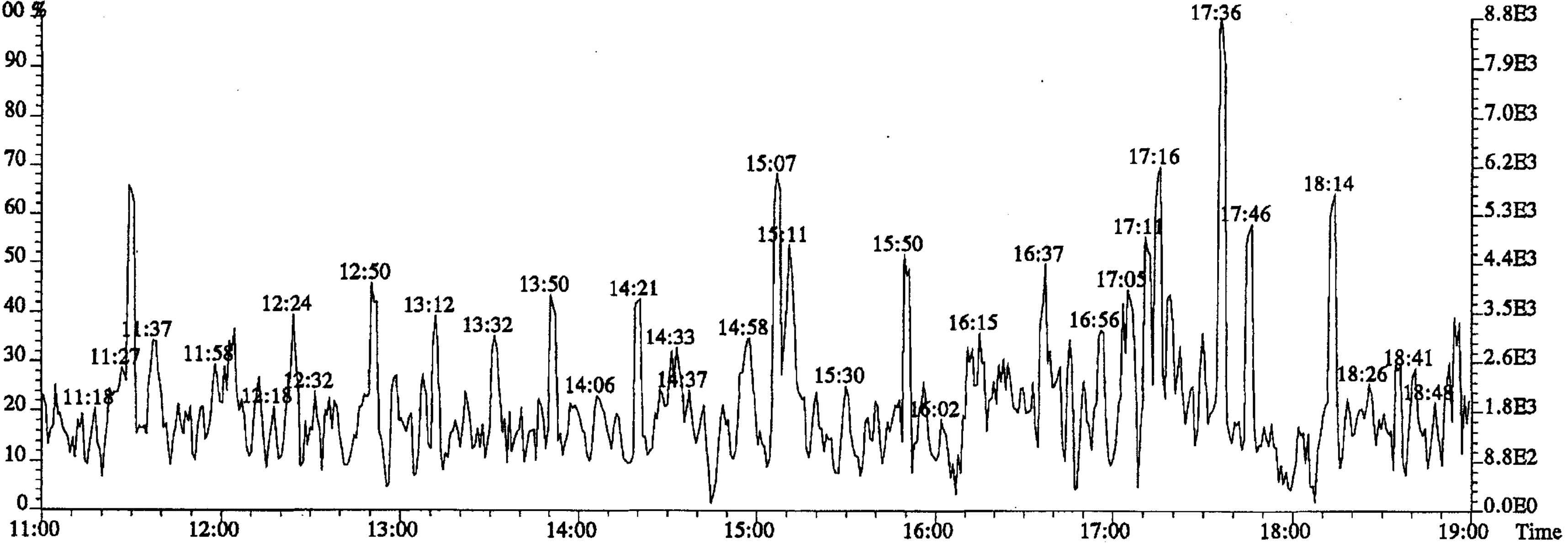
331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13320.0,1.00%,F,T)



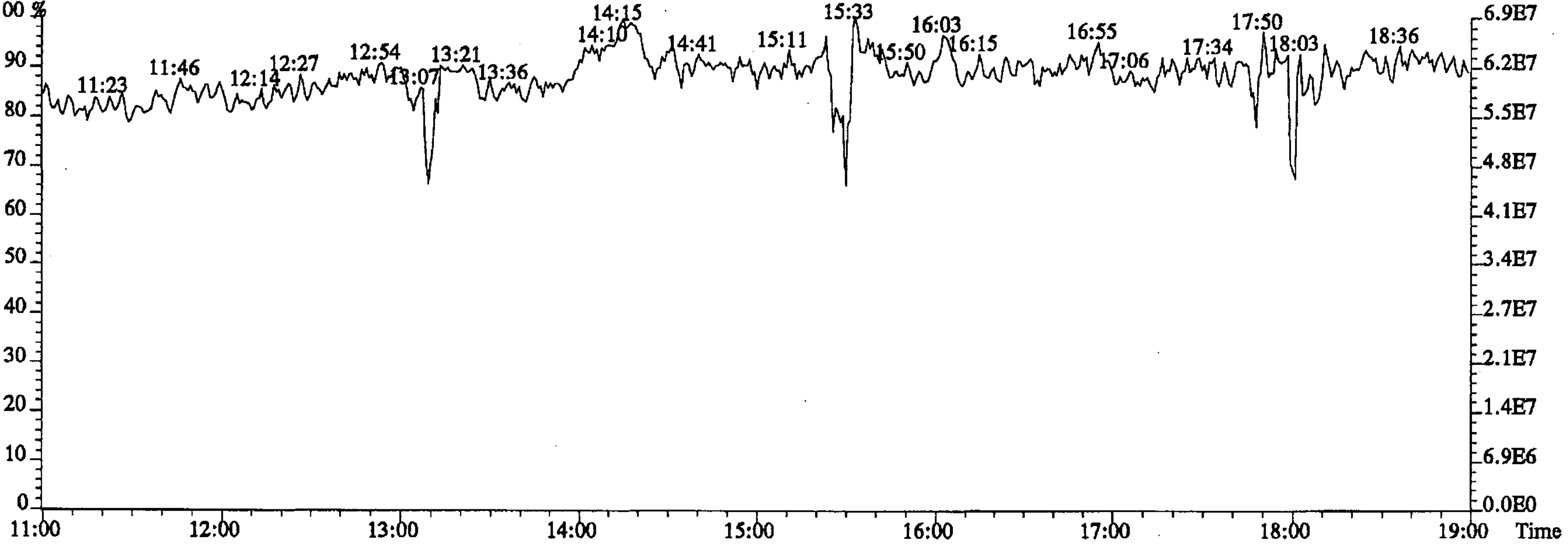
333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7524.0,1.00%,F,T)



File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST0726C :CS-3 10DXN336 Exp:DB225RES
375.8364 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2000.0,1.00%,F,T)

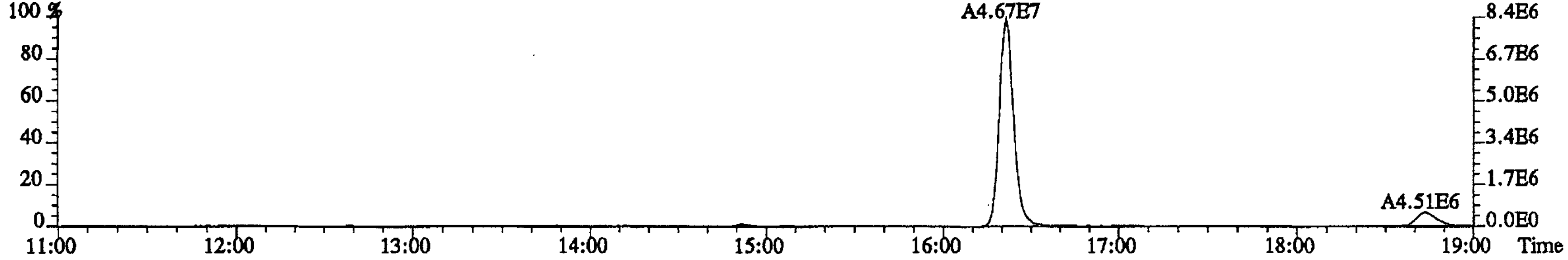


330.9792 S:7 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

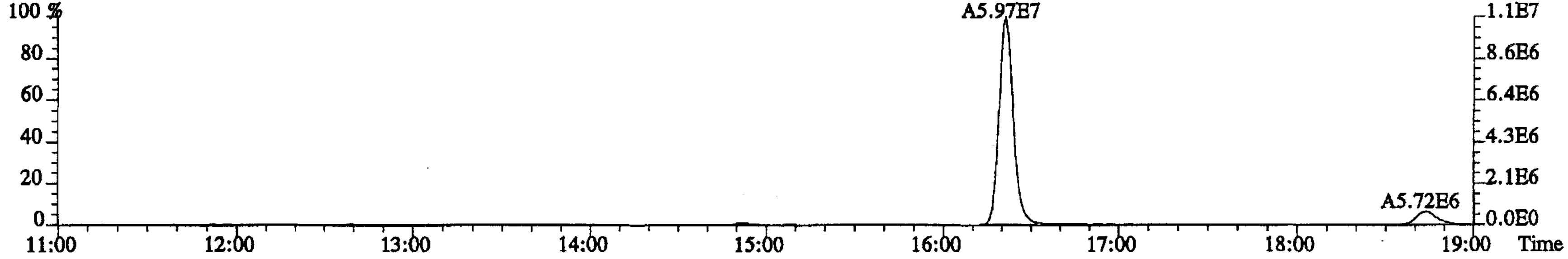


File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST0726E :CS-4 10DXN337 Exp:DB225RES

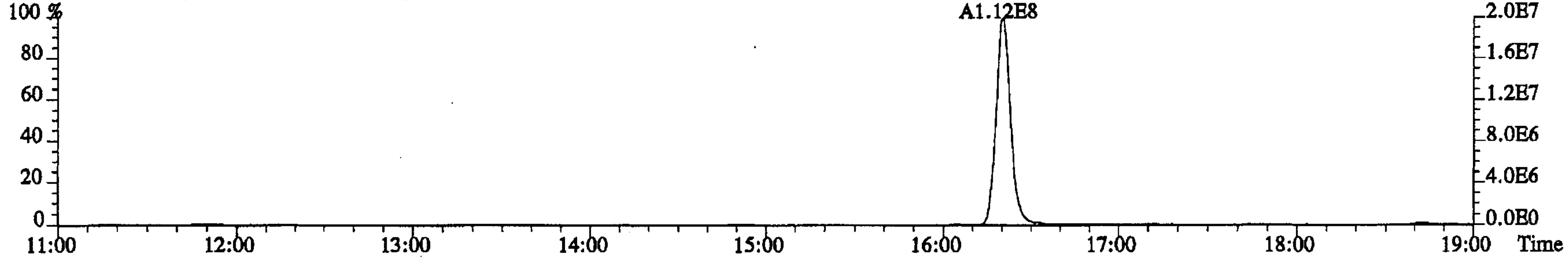
303.9016 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6232.0,1.00%,F,T)



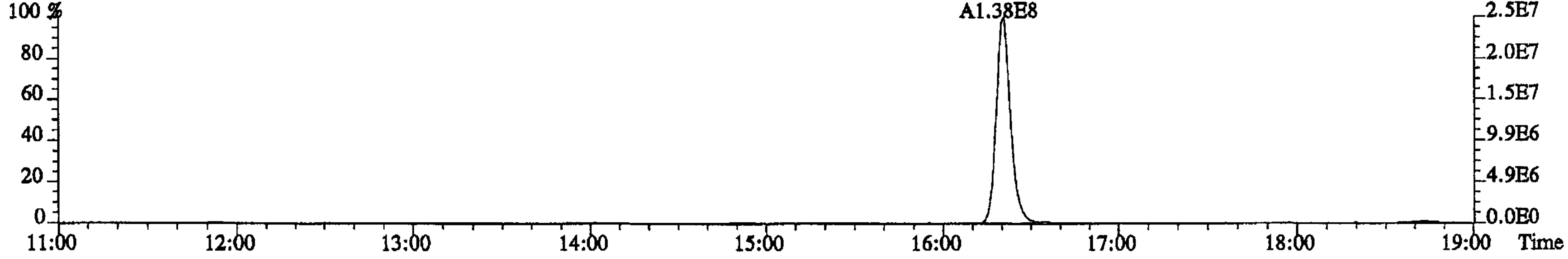
305.8987 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7620.0,1.00%,F,T)



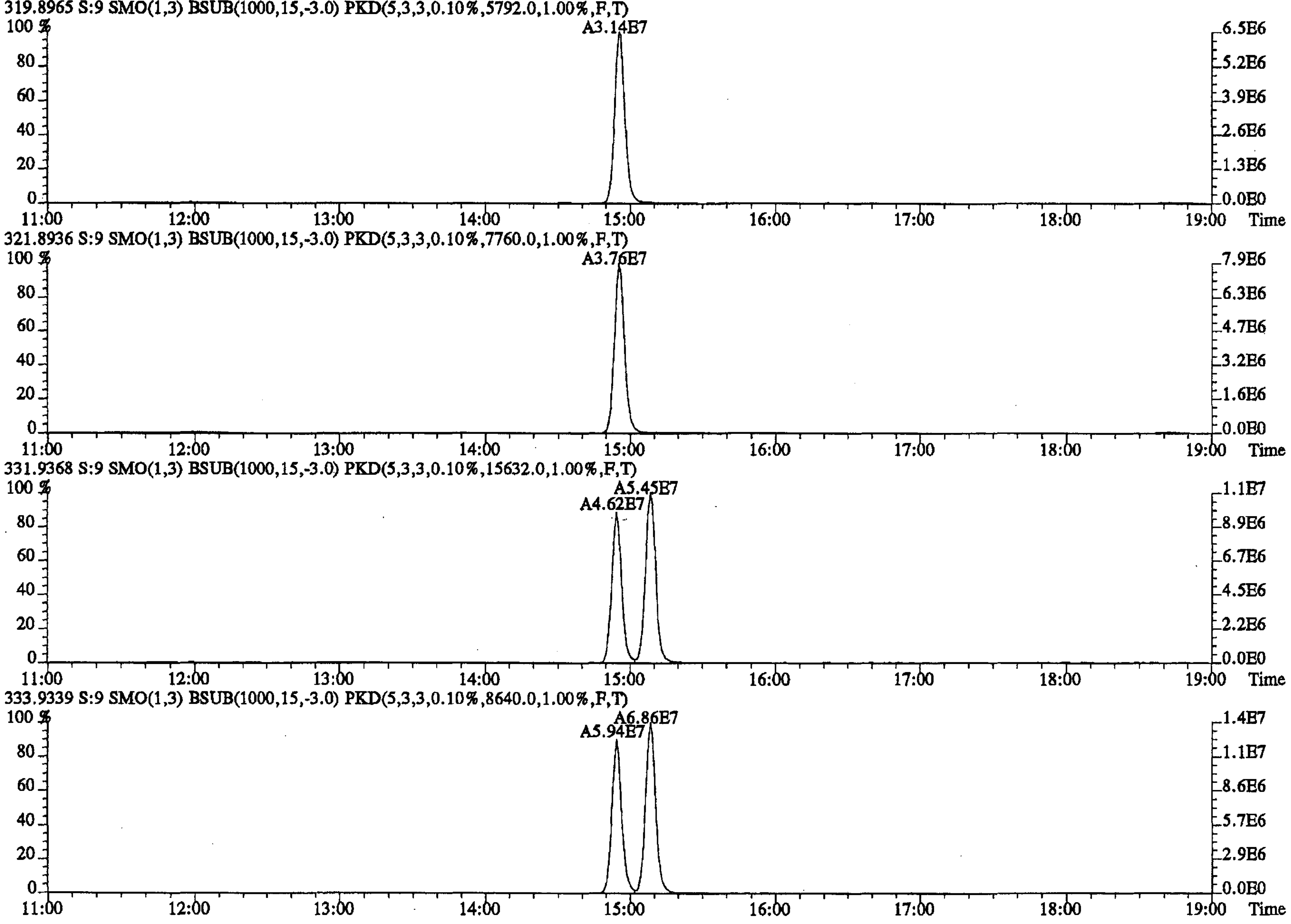
315.9419 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18796.0,1.00%,F,T)



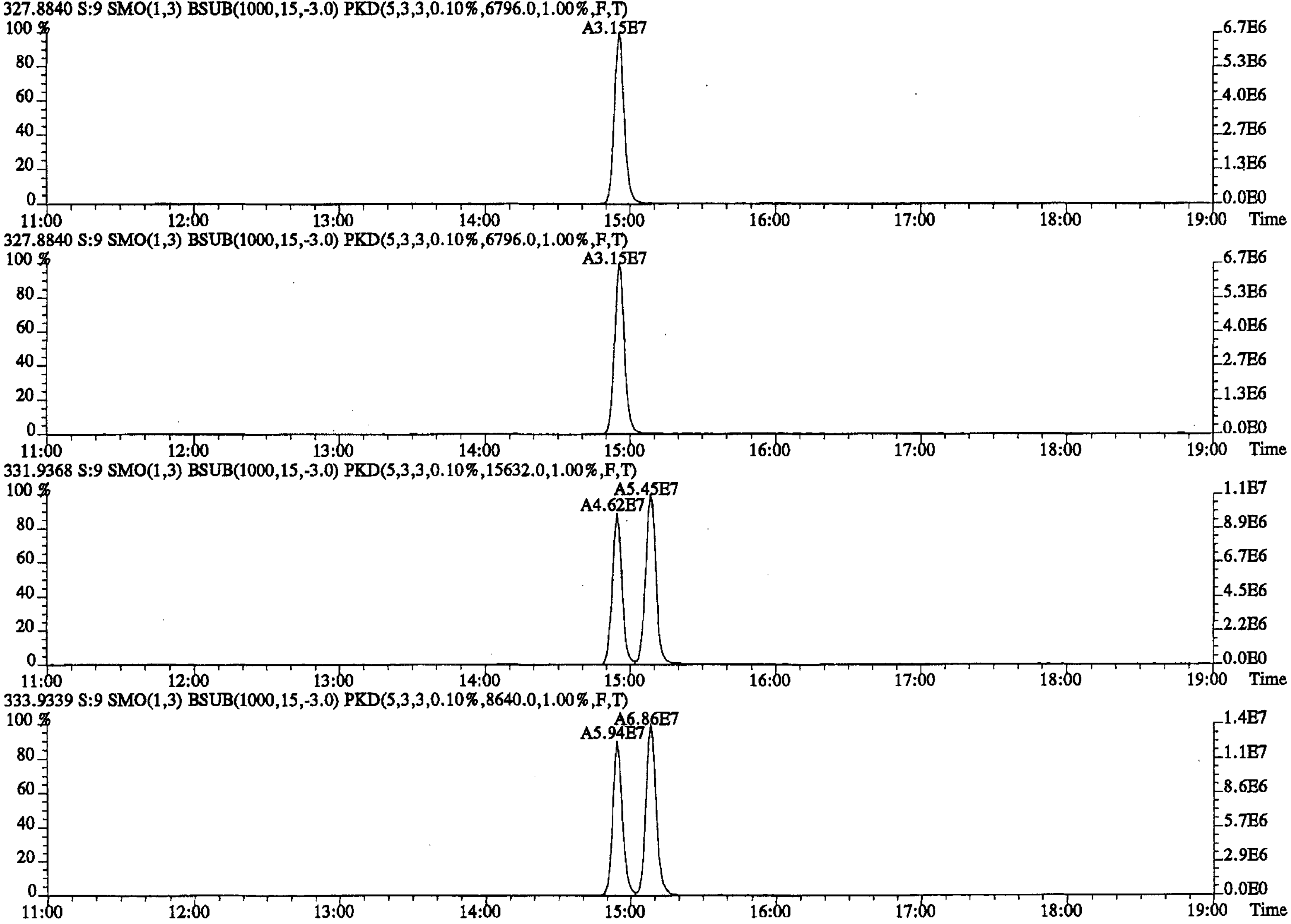
317.9389 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23380.0,1.00%,F,T)

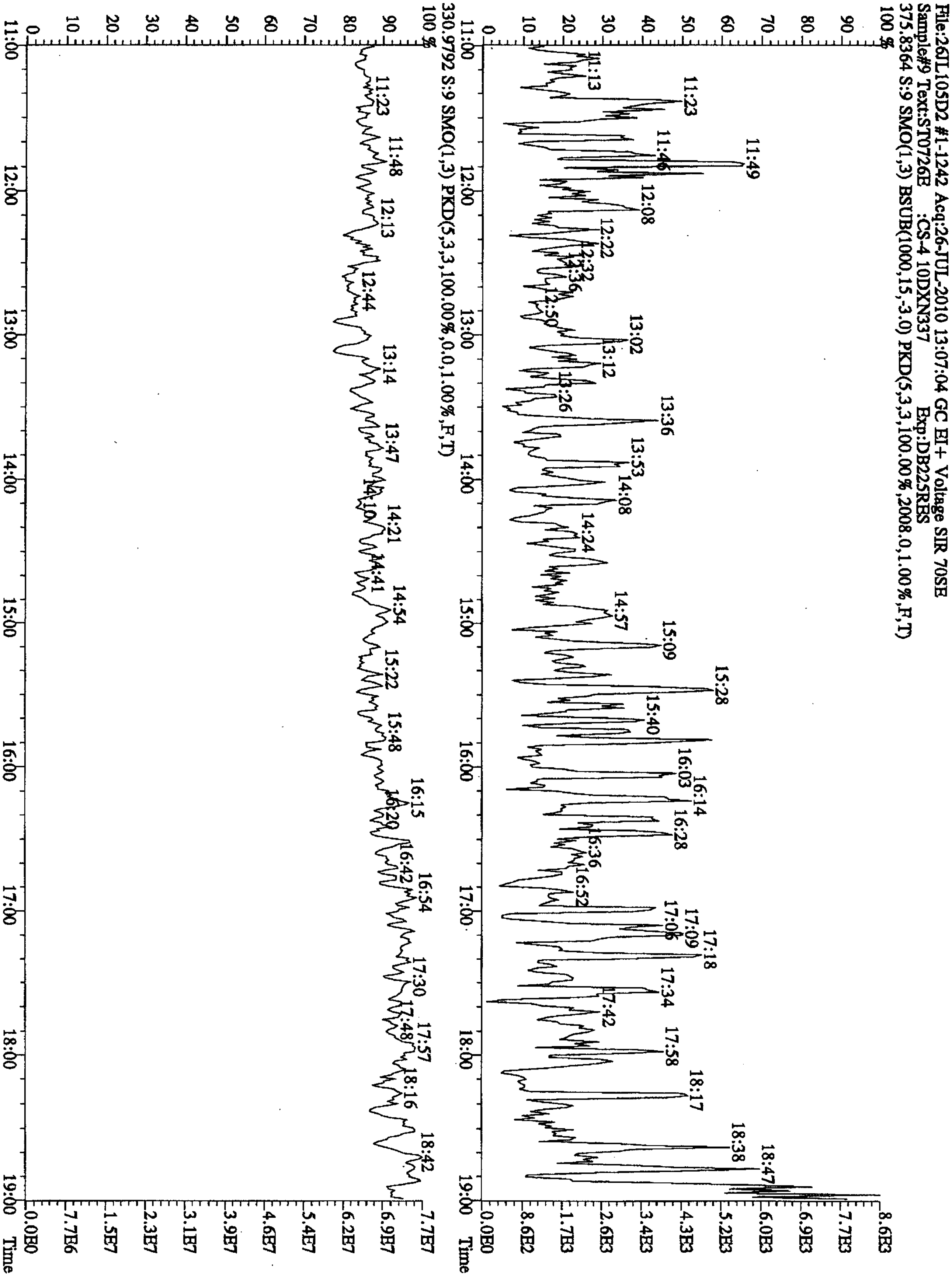


File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST0726E :CS-4 10DXN337 Exp:DB225RES



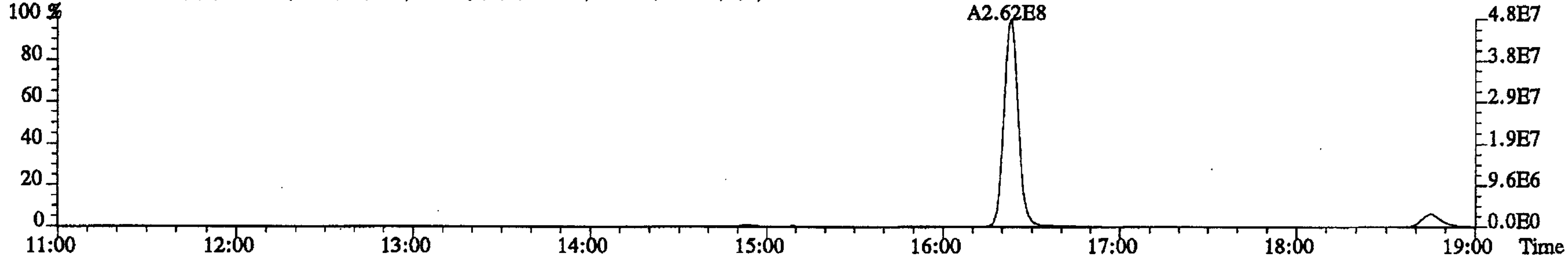
File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST0726E :CS-4 10DXN337 Exp:DB225RES



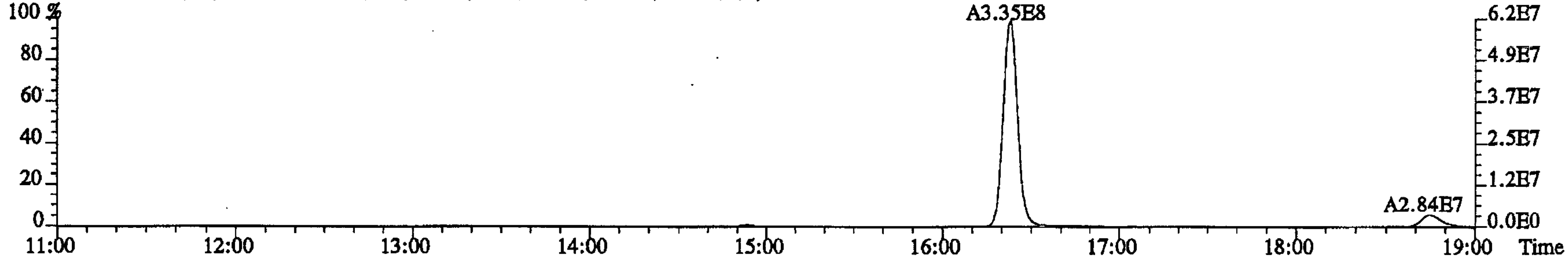

File:26L105D2 #1-1242 Acq:26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST0726B :CS-4 10DXN337 Exp:DB225RES
375.8364 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2008.0,1.00%,F,T)
100 %
8.6E3
7.7E3
6.9E3
6.0E3
5.2E3
4.3E3
3.4E3
2.6E3
1.7E3
8.6E2
0.0E0
11:13
11:23
11:46
11:49
12:08
12:22
12:32
12:36
12:50
13:02
13:12
13:26
13:36
13:53
14:08
14:24
14:57
15:09
15:28
15:40
16:03
16:14
16:28
16:36
16:52
17:06
17:09
17:18
17:34
17:42
17:58
18:17
18:38
18:47
330.9792 S:9 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
100 %
7.7E7
6.9E7
6.2E7
5.4E7
4.6E7
3.9E7
3.1E7
2.3E7
1.5E7
7.7E6
0.0E0
11:23
11:48
12:13
12:44
13:14
13:47
14:10
14:21
14:41
14:54
15:22
15:48
16:15
16:20
16:42
16:54
17:30
17:48
17:57
18:16
18:42
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time

File:26JL105D2 #1-1242 Acq:26-JUL-2010 12:33:16 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DB225RES

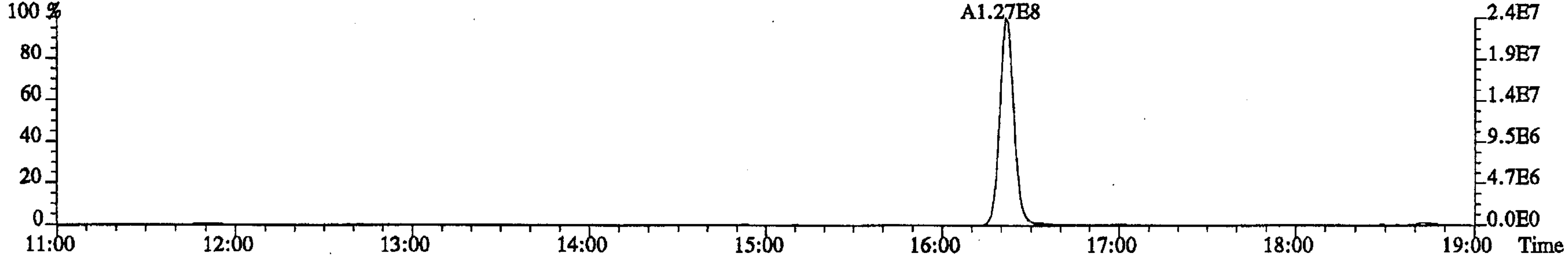
303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3880.0,1.00%,F,T)



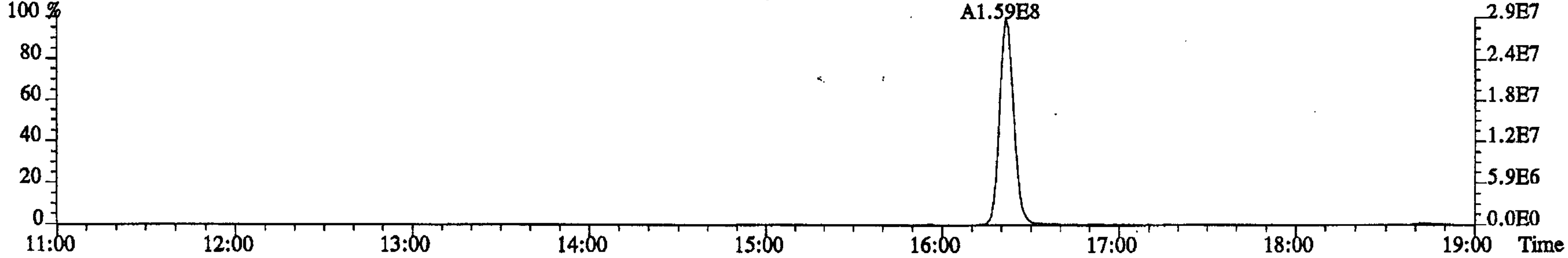
305.8987 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5020.0,1.00%,F,T)



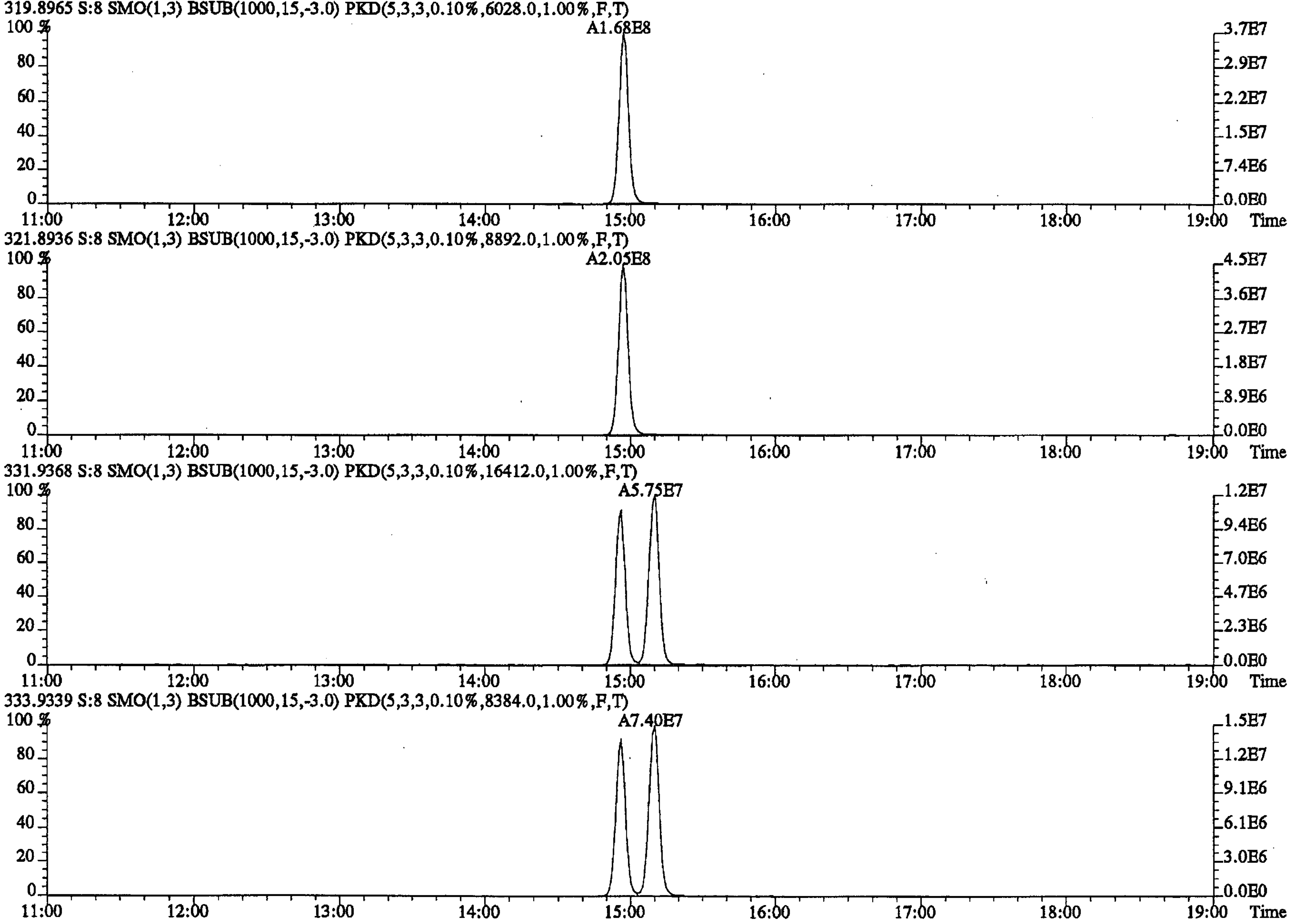
315.9419 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17964.0,1.00%,F,T)



317.9389 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21964.0,1.00%,F,T)

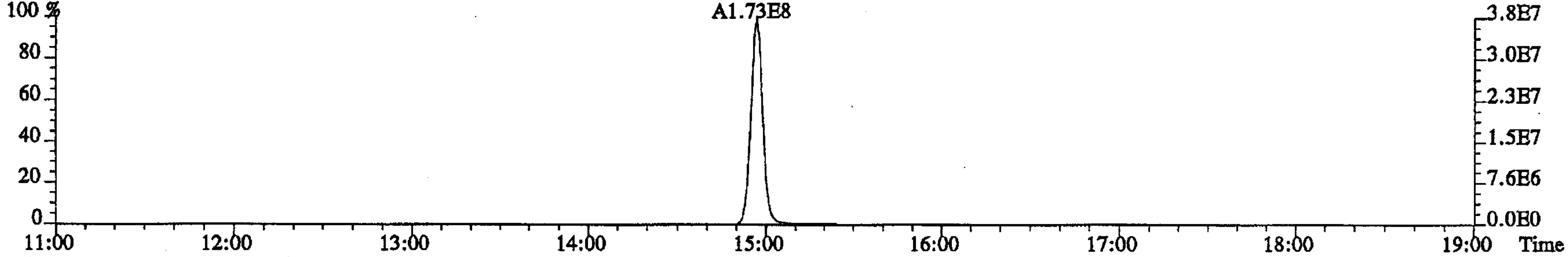


File:26JL105D2 #1-1242 Acq:26-JUL-2010 12:33:16 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DB225RES

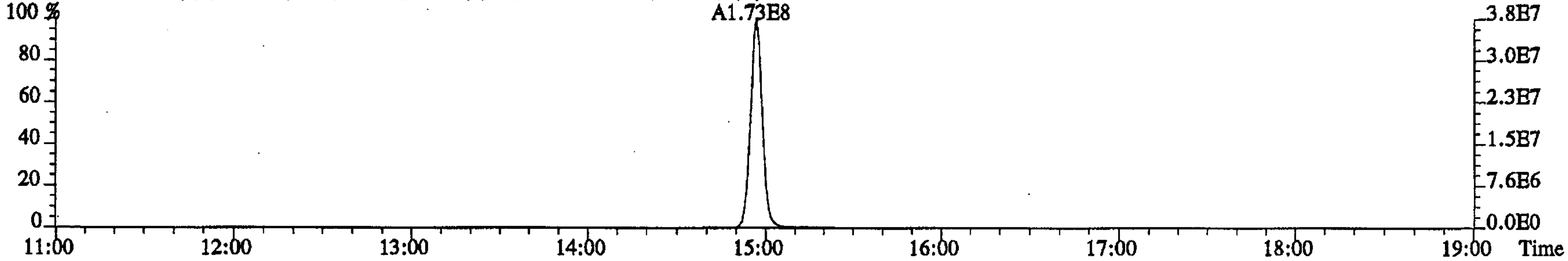


File:26JL105D2 #1-1242 Acq:26-JUL-2010 12:33:16 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DB225RES

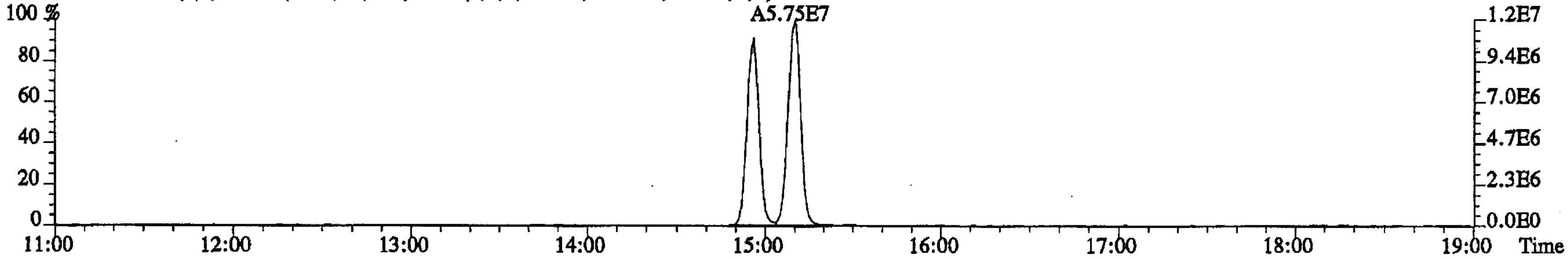
327.8840 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7260.0,1.00%,F,T)



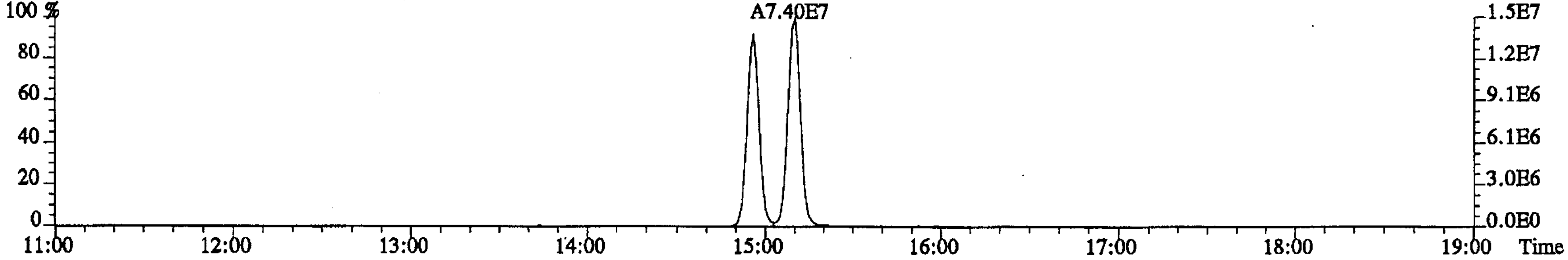
327.8840 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7260.0,1.00%,F,T)



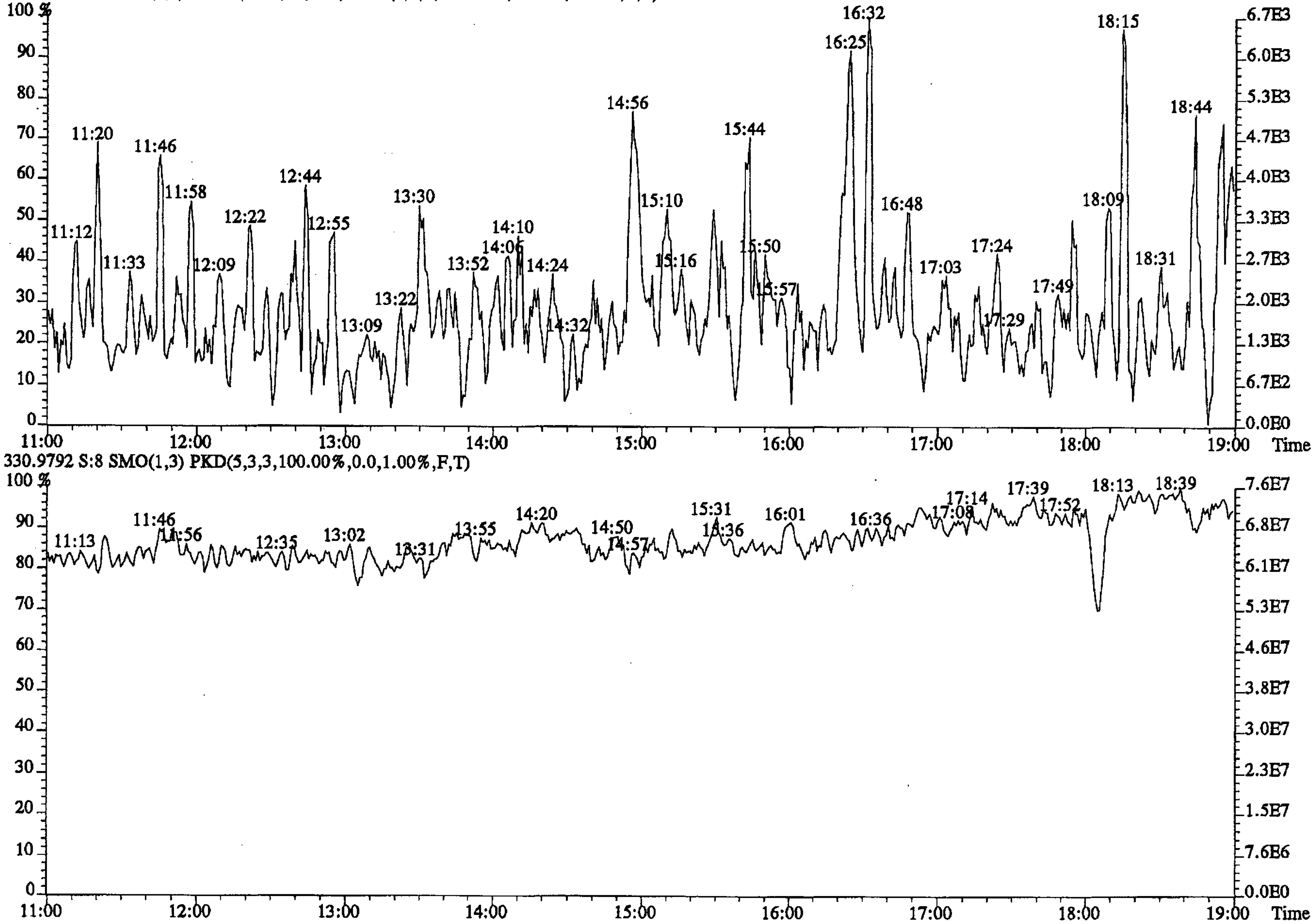
331.9368 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16412.0,1.00%,F,T)



333.9339 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8384.0,1.00%,F,T)

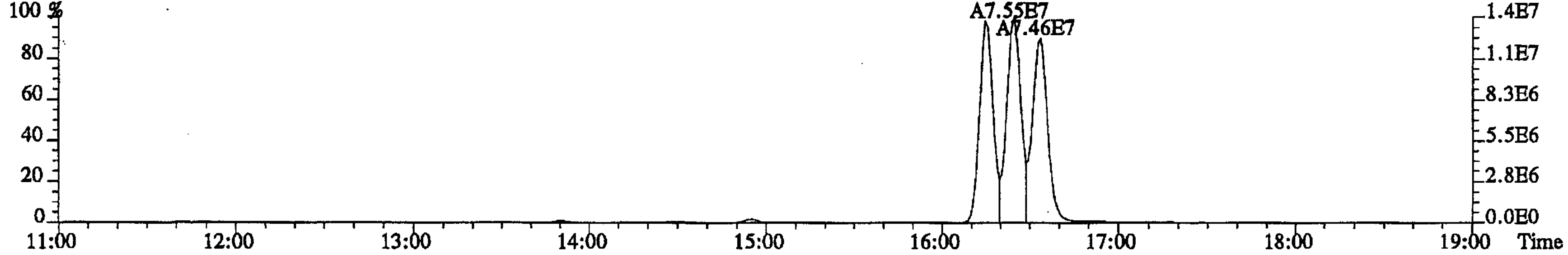


File:26JL105D2 #1-1242 Acq:26-JUL-2010 12:33:16 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DB225RES
375.8364 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2080.0,1.00%,F,T)

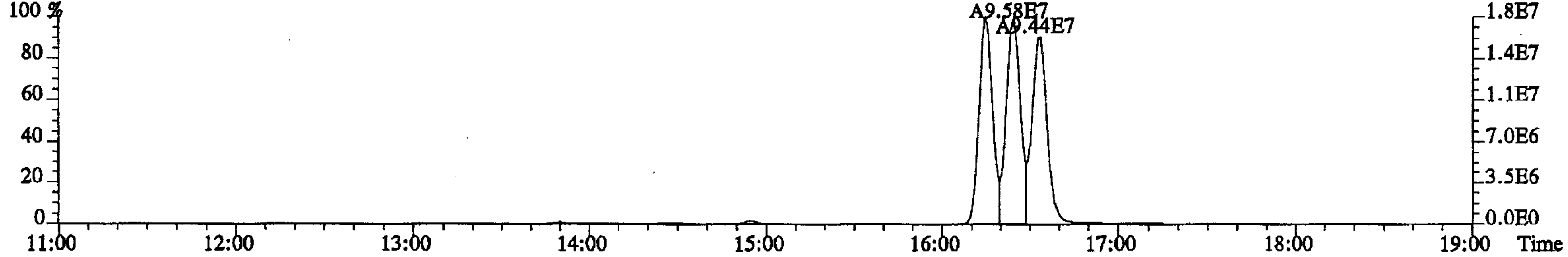


File:26JL105D2 #1-1242 Acq:26-JUL-2010 08:18:34 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0726 :DB-225 CPSM 3732-06 Exp:DB225RES

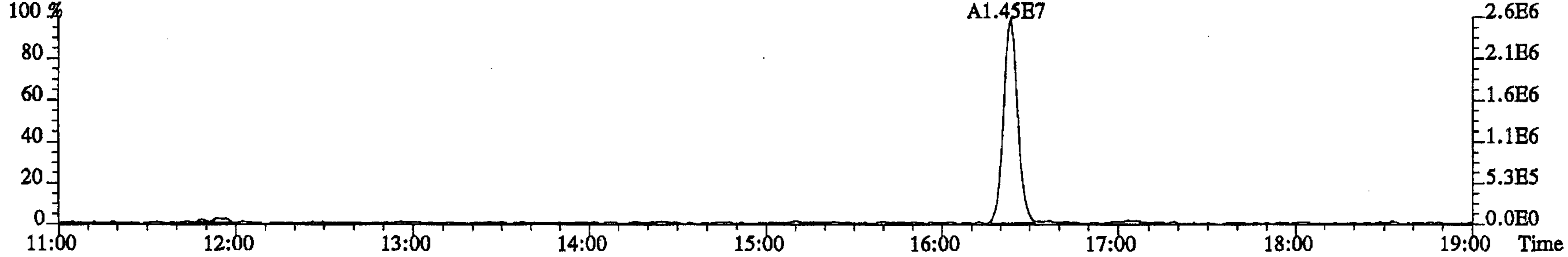
303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5928.0,1.00%,F,T)



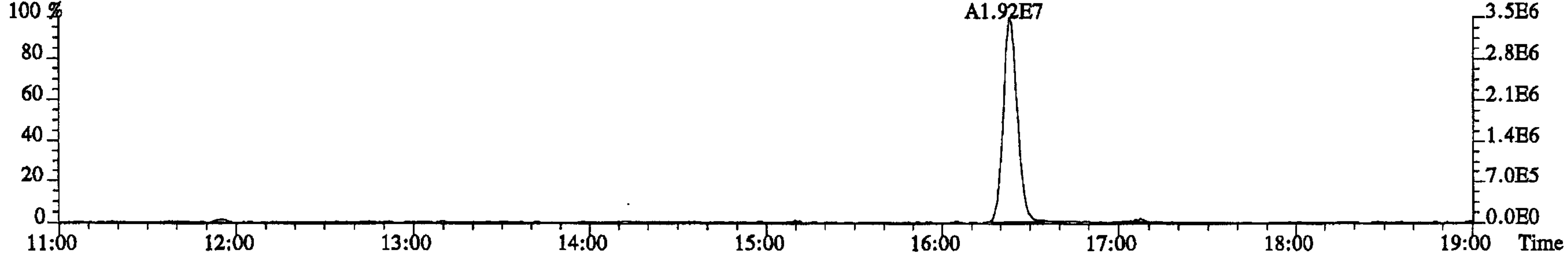
305.8987 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7992.0,1.00%,F,T)

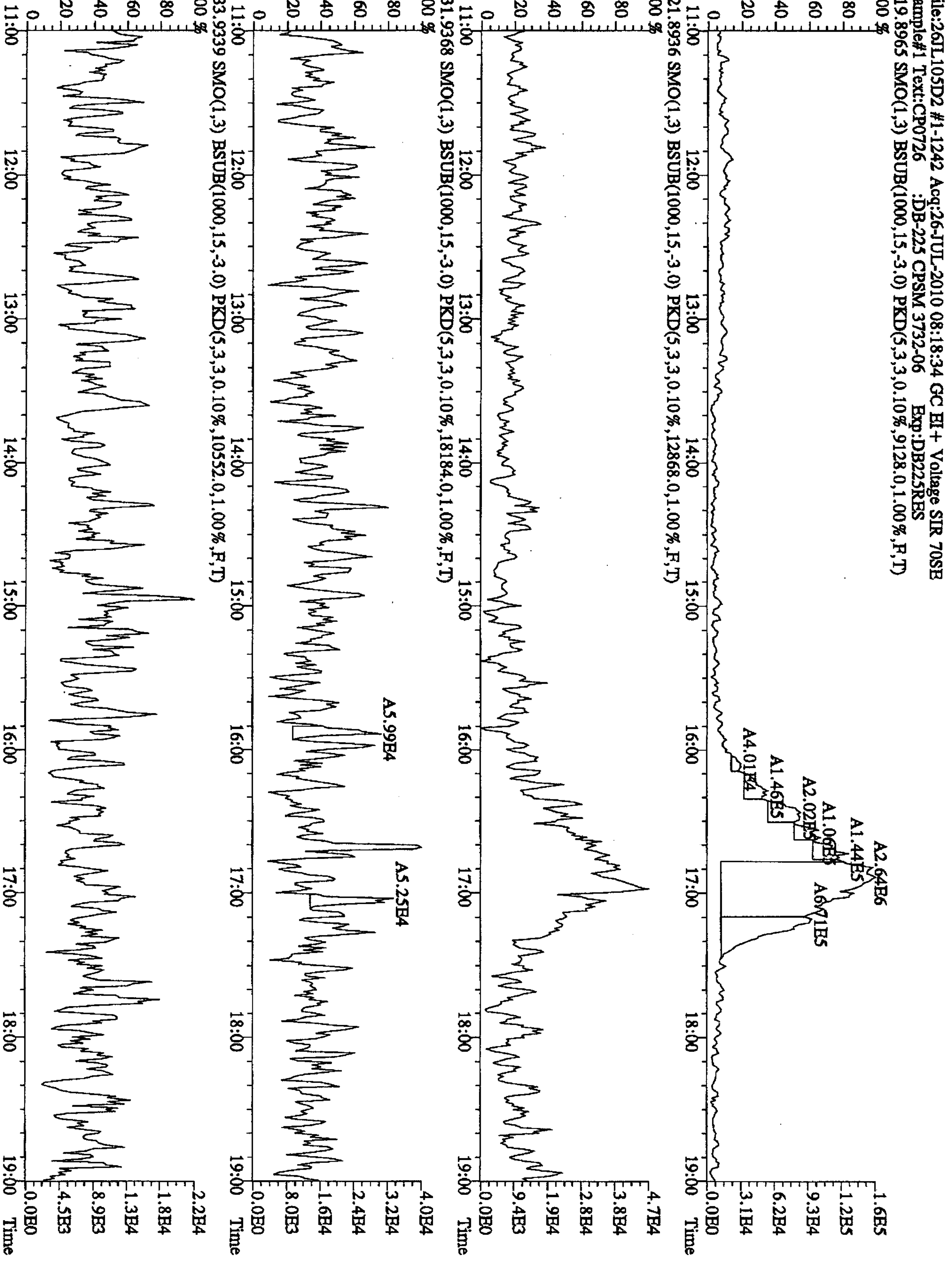


315.9419 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20272.0,1.00%,F,T)

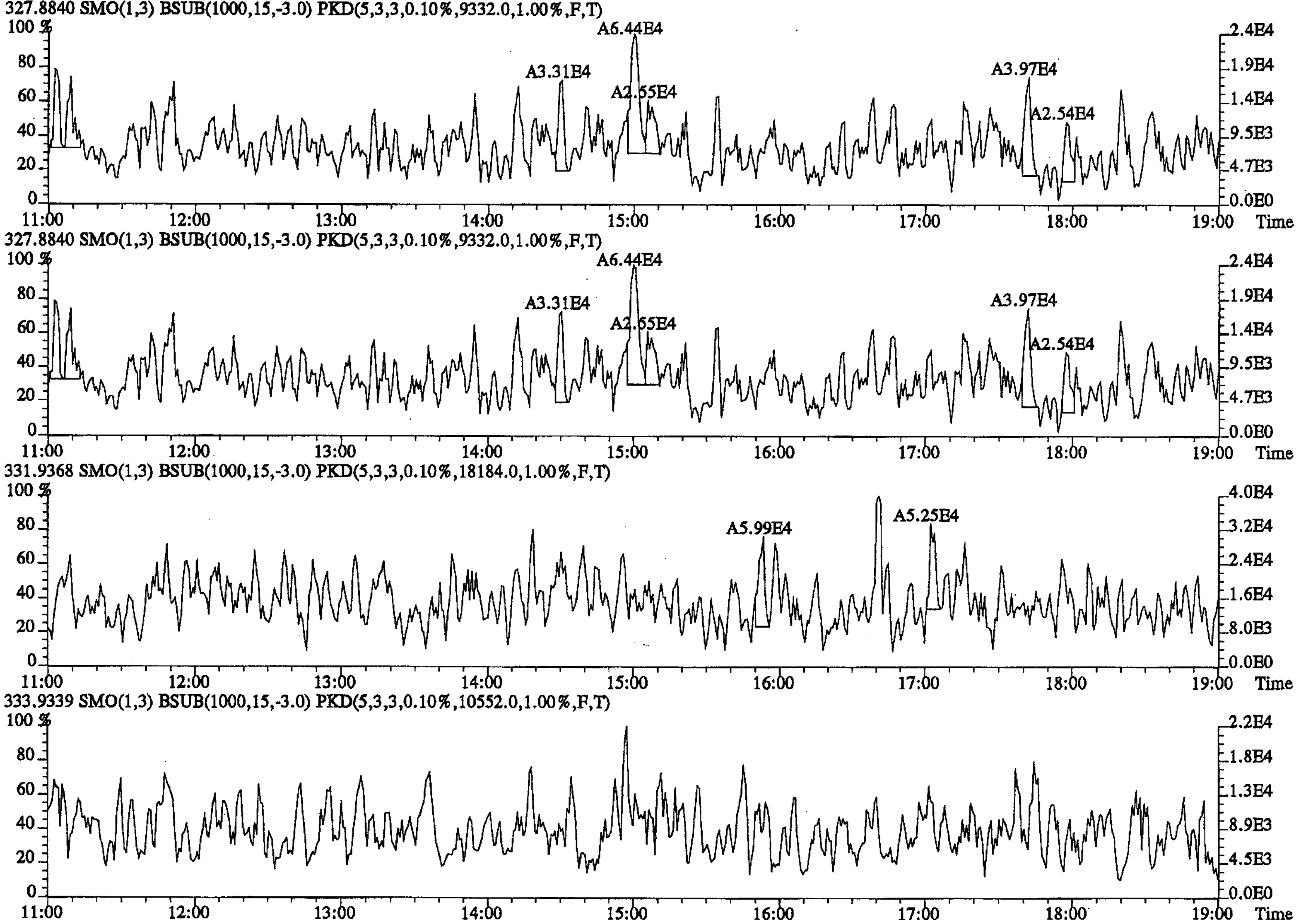


317.9389 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18328.0,1.00%,F,T)

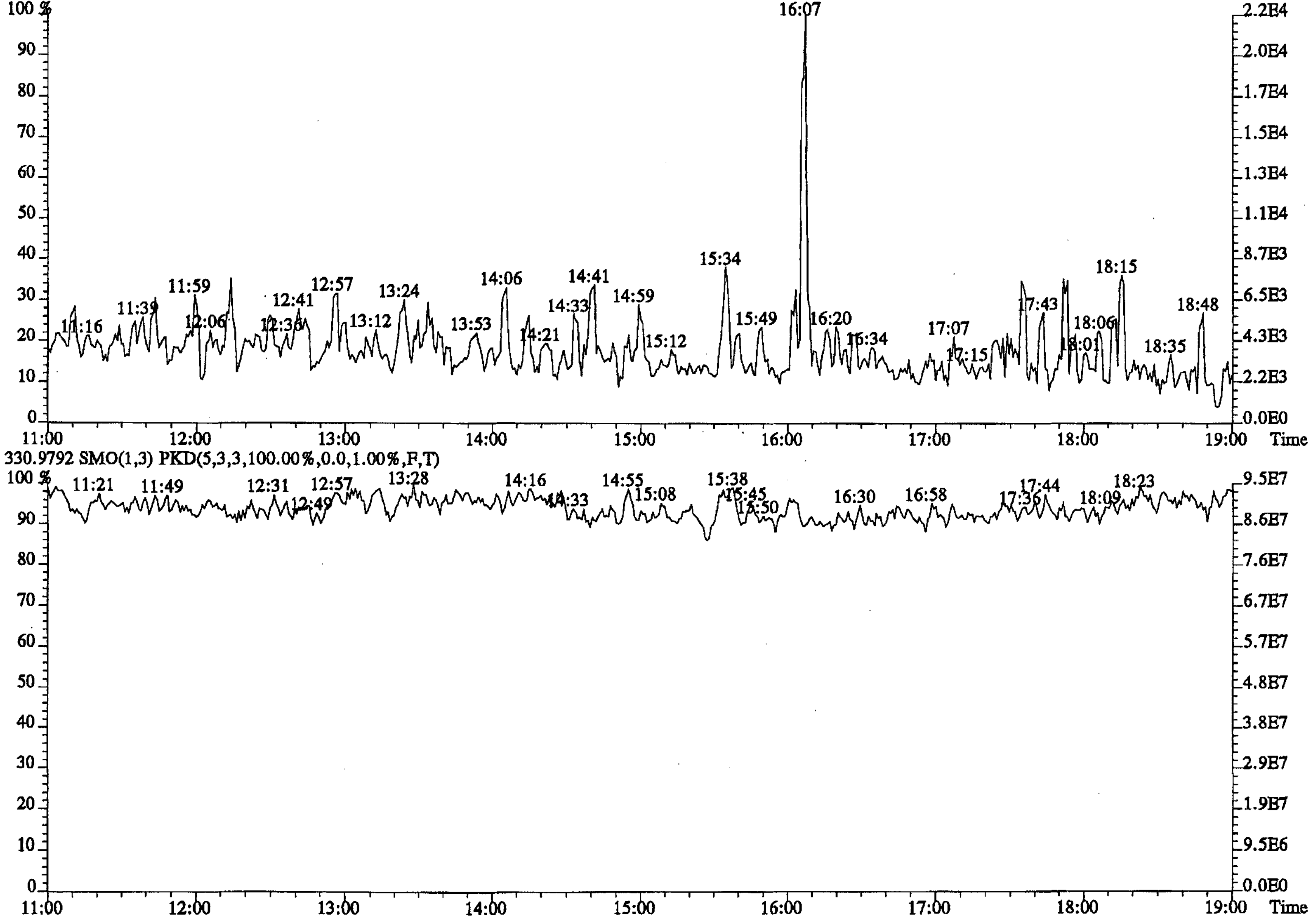



File:26JL105D2 #1-1242 Acq:26-JUL-2010 08:18:34 GC EI+ Voltage SIR 70SB
Sample#1 Text:CP0726 :DB-225 CPSM 3732-06 Exp:DB225RES
319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9128.0,1.00%,F,T)
A2.64E6
A1.44E5
A1.06E5
A2.02E5
A1.46E5
A4.01E4
A6.71E5
1.6E5
1.2E5
9.3E4
6.2E4
3.1E4
0.0E0
321.8936 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12868.0,1.00%,F,T)
4.7E4
3.8E4
2.8E4
1.9E4
9.4E3
0.0E0
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18184.0,1.00%,F,T)
A5.99E4
A5.25E4
4.0E4
3.2E4
2.4E4
1.6E4
8.0E3
0.0E0
333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10552.0,1.00%,F,T)
2.2E4
1.8E4
1.3E4
8.9E3
4.5E3
0.0E0
100 %
80
60
40
20
0
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Time

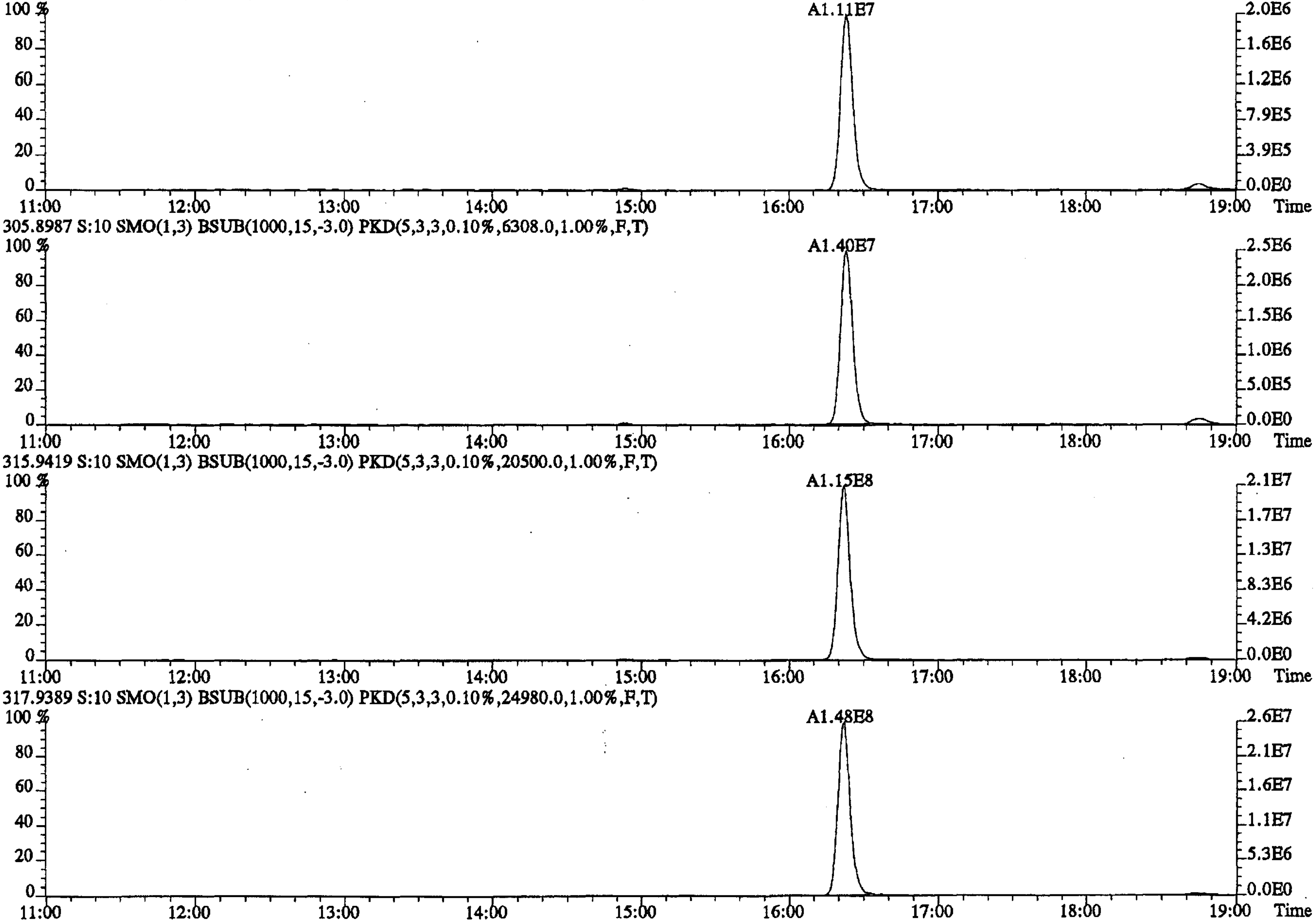
File:26JL105D2 #1-1242 Acq:26-JUL-2010 08:18:34 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0726 :DB-225 CPSM 3732-06 Exp:DB225RES



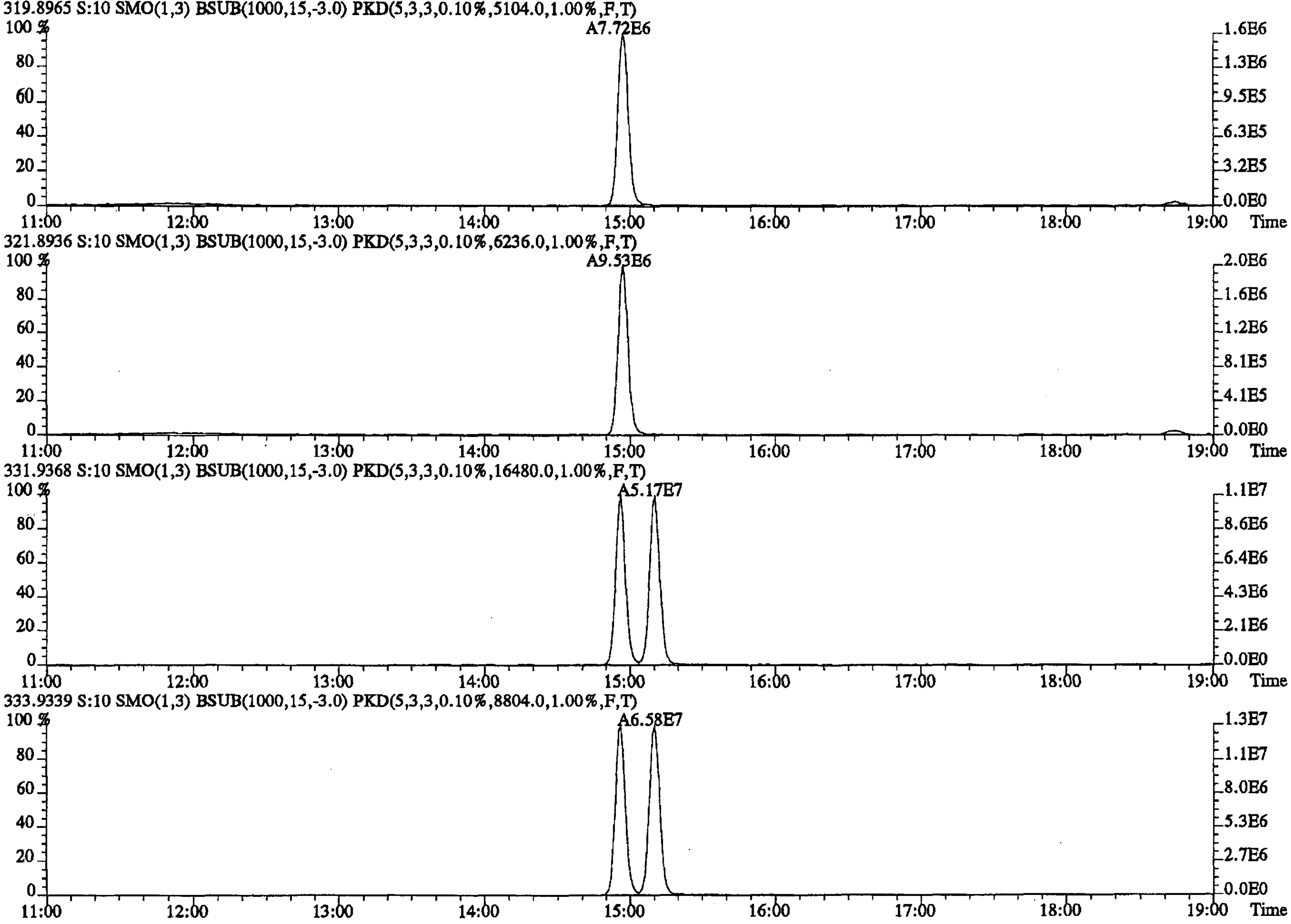
File:26JL105D2 #1-1242 Acq:26-JUL-2010 08:18:34 GC EI+ Voltage SIR 70SE
Sample#1 Text:CP0726 :DB-225 CPSM 3732-06 Exp:DB225RES
375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4108.0,1.00%,F,T)



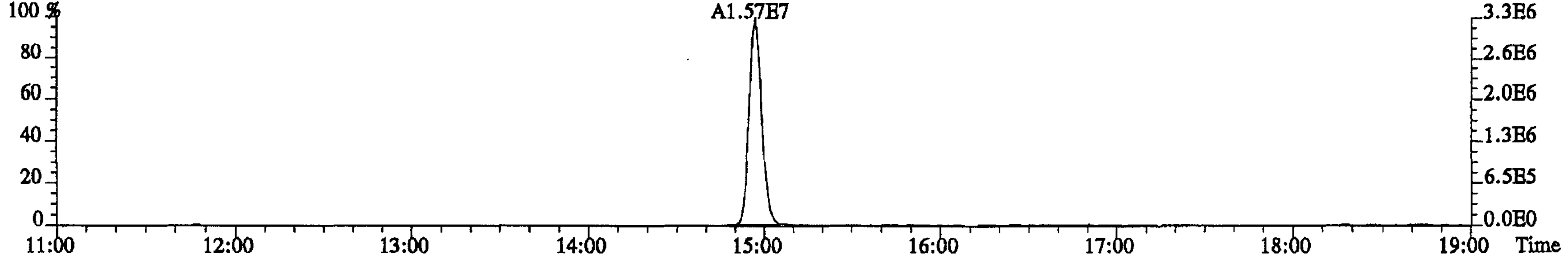
File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SE
Sample#10 Text:ST0726F :2nd Source 10DXN340 Exp:DB225RES
303.9016 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4628.0,1.00%,F,T)



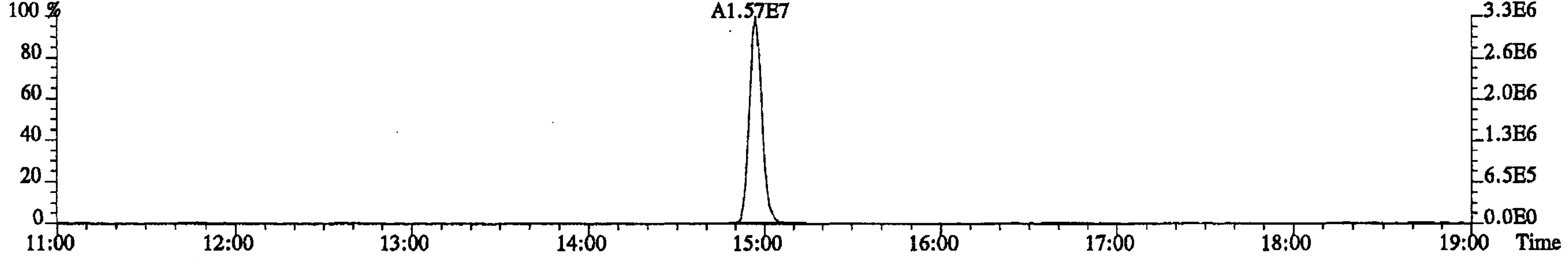
File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SE
Sample#10 Text:ST0726F :2nd Source 10DXN340 Exp:DB225RES



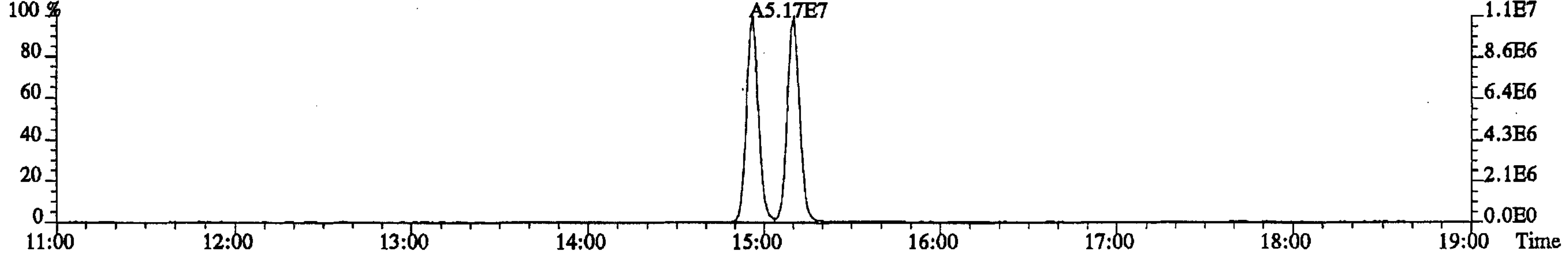
File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SE
Sample#10 Text:ST0726F :2nd Source 10DXN340 Exp:DB225RES
327.8840 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6912.0,1.00%,F,T)



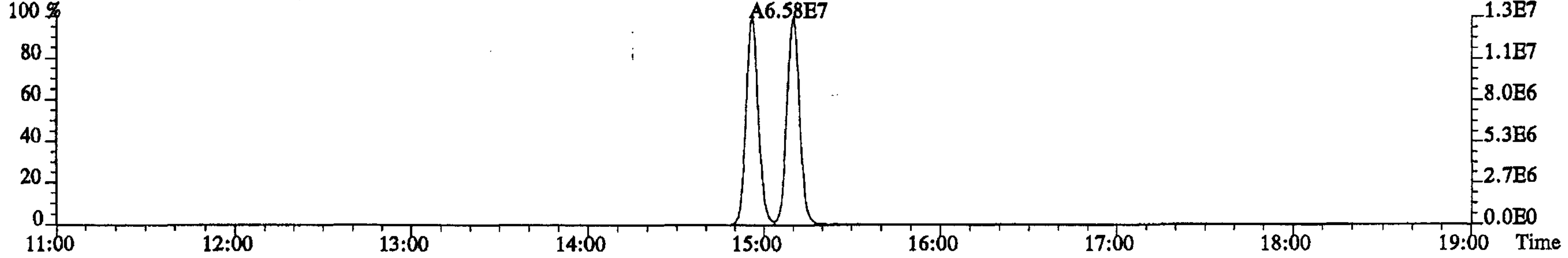
327.8840 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6912.0,1.00%,F,T)



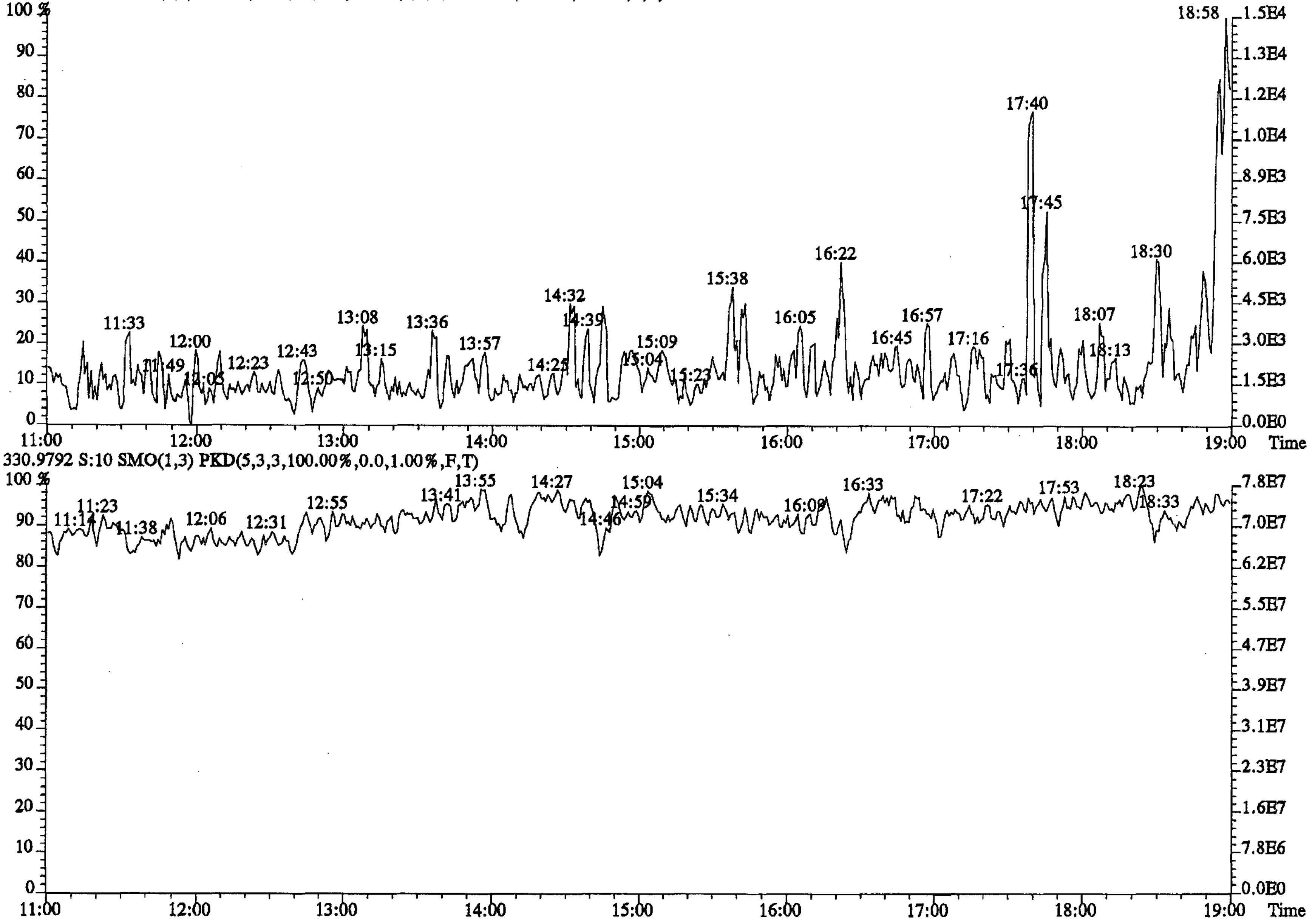
331.9368 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16480.0,1.00%,F,T)



333.9339 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8804.0,1.00%,F,T)



File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SE
Sample#10 Text:ST0726F :2nd Source 10DXN340 Exp:DB225RES
375.8364 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2100.0,1.00%,F,T)



330.9792 S:10 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

Test America – West Sacramento

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Initial Calibration Checklist
Dioxin Methods

ICAL ID 8290, 1613, 0023A, 23, T09, Tetras 0721104D5

Method ID 8290, 1613, 0023A, 23, T09, Tetras 8290A

Date Scanned ____________

Column ID DB5

Instrument ID 4D5

STD ID's ST0721A → ST0721E

STD Solution (10DXN) 334, 336, 337, 339, 342

GC Program OCDD

Multiplier Setting 410 KV

Analyzed By KSS

Date Analyzed 07-21-10

Prepared By KSS

Date Prepared 07-22-10

Reviewed By JRB

Date Reviewed 7/22/10

[illegible]	[illegible]	[illegible]
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:

*Method 8290/TO9/M0023A: %RSD $\leq$20% for natives, $\leq$30% for labeled compounds; S/N$\geq$10
Method 1613B: %RSD$\leq$ 20% natives, $\leq$30% labeled compounds; S/N $\geq$10
Method 23: %RSD $\leq$ values specified in Table 5, Method 23; S/N $\geq$ 2.5

Page 1 of 1

Run: 15SE098D2   Analyte: TO9   Cal: TO90721104D5

ST0721A :CS-1 10DXN342   ST0721B :CS-2 10DXN334   ST0721C :CS-3 10DXN336
ST0721D :CS-5 10DXN339   ST0721E :CS-4 10DXN337

				21JL10A4D5	21JL10A4D5	21JL10A4D5	21JL10A4D5	21JL10A4D5
				S4	S5	S6	S7	S8
Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.229	0.154	12.5 %	1.30	1.31	1.39	1.03	1.11
2,3,7,8-TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
Total TCDF	0.995	0.037	3.68 %	1.03	0.96	0.98	0.97	1.03
13C-2,3,7,8-TCDD	0.905	0.029	3.25 %	0.92	0.92	0.94	0.88	0.87
2,3,7,8-TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
Total TCDD	0.983	0.032	3.24 %	0.98	0.94	0.97	1.01	1.02
37Cl-2,3,7,8-TCDD	1.326	0.015	1.12 %	1.33	1.31	1.32	1.35	1.32
13C-1,2,3,7,8-PeCDF	0.876	0.018	2.08 %	0.86	0.90	0.86	0.89	0.87
1,2,3,7,8-PeCDF	1.077	0.042	3.92 %	1.03	1.04	1.08	1.11	1.12
2,3,4,7,8-PeCDF	1.046	0.040	3.80 %	1.00	1.02	1.08	1.04	1.09
Total F2 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
Total F1 PeCDF	1.061	0.039	3.67 %	1.01	1.03	1.08	1.08	1.10
13C-1,2,3,7,8-PeCDD	0.661	0.010	1.45 %	0.65	0.66	0.67	0.67	0.65
1,2,3,7,8-PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
Total PeCDD	0.925	0.038	4.09 %	0.89	0.88	0.94	0.95	0.97
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.045	0.067	6.44 %	1.03	1.15	0.98	1.00	1.07
1,2,3,4,7,8-HxCDF	1.217	0.012	1.02 %	1.21	1.20	1.22	1.22	1.23
1,2,3,6,7,8-HxCDF	1.282	0.089	6.95 %	1.19	1.22	1.41	1.33	1.26
2,3,4,6,7,8-HxCDF	1.233	0.080	6.49 %	1.19	1.15	1.35	1.27	1.21
1,2,3,7,8,9-HxCDF	1.098	0.096	8.73 %	1.08	0.99	1.25	1.10	1.06
Total HxCDF	1.208	0.066	5.43 %	1.17	1.14	1.31	1.23	1.19
13C-1,2,3,6,7,8-HxCDD	0.831	0.055	6.68 %	0.84	0.83	0.92	0.77	0.79
1,2,3,4,7,8-HxCDD	1.037	0.122	11.8 %	0.90	0.99	0.97	1.17	1.16

1,2,3,6,7,8-HxCDD	1.163	0.060	5.18 %	1.14	1.23	1.10	1.12	1.23
1,2,3,7,8,9-HxCDD	1.182	0.057	4.86 %	1.15	1.16	1.12	1.25	1.24
Total HxCDD	1.127	0.067	5.93 %	1.06	1.12	1.06	1.18	1.21
13C-1,2,3,4,6,7,8-HpCDF	0.910	0.051	5.65 %	0.99	0.91	0.92	0.87	0.86
1,2,3,4,6,7,8-HpCDF	1.346	0.027	1.99 %	1.31	1.34	1.35	1.35	1.38
1,2,3,4,7,8,9-HpCDF	1.093	0.049	4.49 %	1.01	1.09	1.11	1.13	1.13
Total HpCDF	1.220	0.037	3.05 %	1.16	1.21	1.23	1.24	1.26
13C-1,2,3,4,6,7,8-HpCDD	0.827	0.049	5.98 %	0.89	0.85	0.83	0.76	0.79
1,2,3,4,6,7,8-HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
Total HpCDD	1.072	0.028	2.61 %	1.07	1.03	1.07	1.09	1.10
13C-OCDD	0.620	0.029	4.60 %	0.66	0.63	0.63	0.60	0.59
OCDF	1.370	0.027	1.98 %	1.36	1.35	1.35	1.39	1.41
OCDD	1.199	0.066	5.48 %	1.31	1.17	1.16	1.17	1.19

```
Run #1   Filename 21JL10A4D5  S: 4     I: 1
Acquired: 21-JUL-10   16:48:00          Processed: 22-JUL-10  12:01:10
Run: 15SE098D2    Analyte: TO9            Cal: TO90721104D5
                                       Comments:
Sample text: ST0721A :CS-1 10DXN342

                  Name            Resp   RA        RT       RRF              Mod?

      13C-1,2,3,4-TCDD    311991000 0.79 y  20:01         -     100.00    n

      13C-2,3,7,8-TCDF    406871000 0.79 y  19:24    1.3041     100.00    n
          2,3,7,8-TCDF      2100786 0.70 y  19:25    1.0327       0.50    n
            Total TCDF            -    - n      -    1.0327       0.50    n

      13C-2,3,7,8-TCDD    286692000 0.78 y  20:13    0.9189     100.00    n
          2,3,7,8-TCDD      1410323 0.86 y  20:14    0.9839       0.50    n
            Total TCDD            -    - n      -    0.9839       0.50    n

     37Cl-2,3,7,8-TCDD      1900202 1.00 y  20:14    1.3256       0.50    n

   13C-1,2,3,7,8-PeCDF    267161000 1.54 y  25:17    0.8563     100.00    n
       1,2,3,7,8-PeCDF      6866350 1.58 y  25:19    1.0280       2.50    n
       2,3,4,7,8-PeCDF      6654750 1.57 y  26:51    0.9964       2.50    n
        Total F2 PeCDF            -    - n      -    1.0122       5.00    n
        Total F1 PeCDF            -    - n      -    1.0122       5.00    n

   13C-1,2,3,7,8-PeCDD    202489300 1.56 y  27:41    0.6490     100.00    n
       1,2,3,7,8-PeCDD      4490250 1.47 y  27:43    0.8870       2.50    n
           Total PeCDD            -    - n      -    0.8870       2.50    n

 13C-1,2,3,7,8,9-HxCDD    216693700 1.31 y  33:22         -     100.00    n

 13C-1,2,3,4,7,8-HxCDF    223118900 0.51 y  32:16    1.0297     100.00    n
     1,2,3,4,7,8-HxCDF      6768610 1.17 y  32:17    1.2135       2.50    n
     1,2,3,6,7,8-HxCDF      6624500 1.24 y  32:24    1.1876       2.50    n
     2,3,4,6,7,8-HxCDF      6618550 1.19 y  32:54    1.1866       2.50    n
     1,2,3,7,8,9-HxCDF      6028420 1.13 y  33:32    1.0808       2.50    n
           Total HxCDF            -    - n      -    1.1671      10.00    n

 13C-1,2,3,6,7,8-HxCDD    182168900 1.32 y  33:06    0.8407     100.00    y✓
     1,2,3,4,7,8-HxCDD      4087150 1.18 y  33:03    0.8974       2.50    n
     1,2,3,6,7,8-HxCDD      5184140 1.31 y  33:07    1.1383       2.50    n
     1,2,3,7,8,9-HxCDD      5222820 1.27 y  33:22    1.1468       2.50    n
           Total HxCDD            -    - n      -    1.0609       7.50    n

13C-1,2,3,4,6,7,8-HpCDF   214578400 0.43 y  34:53    0.9902     100.00    n
    1,2,3,4,6,7,8-HpCDF     7009400 1.06 y  34:54    1.3066       2.50    n
    1,2,3,4,7,8,9-HpCDF     5421290 1.00 y  36:03    1.0106       2.50    n
           Total HpCDF            -    - n      -    1.1586       5.00    n

13C-1,2,3,4,6,7,8-HpCDD   193217400 1.03 y  35:42    0.8917     100.00    n
    1,2,3,4,6,7,8-HpCDD     5159640 1.03 y  35:43    1.0682       2.50    n
           Total HpCDD            -    - n      -    1.0682       2.50    n

              13C-OCDD    284075000 0.88 y  38:16    0.6555     200.00    n
                  OCDF      9640820 0.93 y  38:23    1.3575       5.00    n
```

```
OCDD       9336890 0.91 y  38:16   1.3147      5.00   n
```

```
Run #1   Filename 21JL10A4D5  S: 4     I: 1
Acquired: 21-JUL-10   16:48:00           Processed: 22-JUL-10  12:01:10
Run: 15SE098D2    Analyte: TO9            Cal: TO90721104D5
                                        Comments:
Sample text: ST0721A :CS-1 10DXN342

                    Name           Resp   RA        RT      RRF              Mod?

      13C-1,2,3,4-TCDD    311991000 0.79 y  20:01         -    100.00    n

      13C-2,3,7,8-TCDF    406871000 0.79 y  19:24    1.3041    100.00    n
          2,3,7,8-TCDF      2100786 0.70 y  19:25    1.0327      0.50    n
            Total TCDF            -    - n      -    1.0327      0.50    n

      13C-2,3,7,8-TCDD    286692000 0.78 y  20:13    0.9189    100.00    n
          2,3,7,8-TCDD      1410323 0.86 y  20:14    0.9839      0.50    n
            Total TCDD            -    - n      -    0.9839      0.50    n

     37Cl-2,3,7,8-TCDD      1900202 1.00 y  20:14    1.3256      0.50    n

   13C-1,2,3,7,8-PeCDF    267161000 1.54 y  25:17    0.8563    100.00    n
       1,2,3,7,8-PeCDF      6866350 1.58 y  25:19    1.0280      2.50    n
       2,3,4,7,8-PeCDF      6654750 1.57 y  26:51    0.9964      2.50    n
        Total F2 PeCDF            -    - n      -    1.0122      5.00    n
        Total F1 PeCDF            -    - n      -    1.0122      5.00    n

   13C-1,2,3,7,8-PeCDD    202489300 1.56 y  27:41    0.6490    100.00    n
       1,2,3,7,8-PeCDD      4490250 1.47 y  27:43    0.8870      2.50    n
           Total PeCDD            -    - n      -    0.8870      2.50    n

 13C-1,2,3,7,8,9-HxCDD    216693700 1.31 y  33:22         -    100.00    n

 13C-1,2,3,4,7,8-HxCDF    223118900 0.51 y  32:16    1.0297    100.00    n
     1,2,3,4,7,8-HxCDF      6768610 1.17 y  32:17    1.2135      2.50    n
     1,2,3,6,7,8-HxCDF      6624500 1.24 y  32:24    1.1876      2.50    n
     2,3,4,6,7,8-HxCDF      6618550 1.19 y  32:54    1.1866      2.50    n
     1,2,3,7,8,9-HxCDF      6028420 1.13 y  33:32    1.0808      2.50    n
           Total HxCDF            -    - n      -    1.1671     10.00    n

 13C-1,2,3,6,7,8-HxCDD    183007300 1.15 y  33:06    0.8445    100.00    n
     1,2,3,4,7,8-HxCDD      4087150 1.18 y  33:03    0.8933      2.50    n
     1,2,3,6,7,8-HxCDD      5184140 1.31 y  33:07    1.1331      2.50    n
     1,2,3,7,8,9-HxCDD      5222820 1.27 y  33:22    1.1416      2.50    n
           Total HxCDD            -    - n      -    1.0560      7.50    n

13C-1,2,3,4,6,7,8-HpCDF   214578400 0.43 y  34:53    0.9902    100.00    n
    1,2,3,4,6,7,8-HpCDF     7009400 1.06 y  34:54    1.3066      2.50    n
    1,2,3,4,7,8,9-HpCDF     5421290 1.00 y  36:03    1.0106      2.50    n
           Total HpCDF            -    - n      -    1.1586      5.00    n

13C-1,2,3,4,6,7,8-HpCDD   193217400 1.03 y  35:42    0.8917    100.00    n
    1,2,3,4,6,7,8-HpCDD     5159640 1.03 y  35:43    1.0682      2.50    n
           Total HpCDD            -    - n      -    1.0682      2.50    n

              13C-OCDD    284075000 0.88 y  38:16    0.6555    200.00    n
                  OCDF      9640820 0.93 y  38:23    1.3575      5.00    n
```

```
OCDD        9336890 0.91 y  38:16   1.3147      5.00   n
```

```
Run #2   Filename 21JL10A4D5  S: 5     I: 1
Acquired: 21-JUL-10   17:33:53          Processed: 22-JUL-10  12:01:11
Run: 15SE098D2    Analyte: TO9            Cal: TO90721104D5
                                       Comments:
Sample text: ST0721B :CS-2 10DXN334

                  Name          Resp   RA       RT       RRF                Mod?

       13C-1,2,3,4-TCDD    346133000 0.79 y  20:01         -     100.00   n

       13C-2,3,7,8-TCDF    454963000 0.79 y  19:25    1.3144     100.00   n
           2,3,7,8-TCDF      8692490 0.78 y  19:26    0.9553       2.00   n
             Total TCDF            -    - n      -    0.9553       2.00   n

       13C-2,3,7,8-TCDD    317456000 0.78 y  20:14    0.9172     100.00   n
           2,3,7,8-TCDD      5958260 0.78 y  20:15    0.9384       2.00   n
             Total TCDD            -    - n      -    0.9384       2.00   n

      37Cl-2,3,7,8-TCDD      8349040 1.00 y  20:15    1.3150       2.00   n

    13C-1,2,3,7,8-PeCDF    311858000 1.53 y  25:17    0.9010     100.00   n
        1,2,3,7,8-PeCDF     32375300 1.57 y  25:19    1.0381      10.00   n
        2,3,4,7,8-PeCDF     31788800 1.54 y  26:52    1.0193      10.00   n
         Total F2 PeCDF            -    - n      -    1.0287      20.00   n
         Total F1 PeCDF            -    - n      -    1.0287      20.00   n

    13C-1,2,3,7,8-PeCDD    228833100 1.55 y  27:41    0.6611     100.00   n
        1,2,3,7,8-PeCDD     20211030 1.54 y  27:42    0.8832      10.00   n
            Total PeCDD            -    - n      -    0.8832      10.00   n

  13C-1,2,3,7,8,9-HxCDD    250231000 1.31 y  33:22         -     100.00   n

  13C-1,2,3,4,7,8-HxCDF    286839800 0.51 y  32:16    1.1463     100.00   n
      1,2,3,4,7,8-HxCDF     34391700 1.17 y  32:17    1.1990      10.00   n
      1,2,3,6,7,8-HxCDF     34994300 1.19 y  32:24    1.2200      10.00   n
      2,3,4,6,7,8-HxCDF     32979800 1.17 y  32:55    1.1498      10.00   n
      1,2,3,7,8,9-HxCDF     28460200 1.20 y  33:33    0.9922      10.00   n
            Total HxCDF            -    - n      -    1.1402      40.00   n

  13C-1,2,3,6,7,8-HxCDD    207728500 1.31 y  33:06    0.8301     100.00   n
      1,2,3,4,7,8-HxCDD     20528920 1.23 y  33:03    0.9883      10.00   n
      1,2,3,6,7,8-HxCDD     25476800 1.29 y  33:07    1.2264      10.00   n
      1,2,3,7,8,9-HxCDD     24026200 1.28 y  33:23    1.1566      10.00   n
            Total HxCDD            -    - n      -    1.1238      30.00   n

13C-1,2,3,4,6,7,8-HpCDF    227576800 0.43 y  34:53    0.9095     100.00   n
    1,2,3,4,6,7,8-HpCDF     30499500 1.03 y  34:54    1.3402      10.00   n
    1,2,3,4,7,8,9-HpCDF     24758800 1.01 y  36:03    1.0879      10.00   n
            Total HpCDF            -    - n      -    1.2141      20.00   n

13C-1,2,3,4,6,7,8-HpCDD    212760000 1.04 y  35:42    0.8503     100.00   n
    1,2,3,4,6,7,8-HpCDD     21862400 1.02 y  35:43    1.0276      10.00   n
            Total HpCDD            -    - n      -    1.0276      10.00   n

               13C-OCDD    316775000 0.88 y  38:16    0.6330     200.00   n
                   OCDF     42624800 0.89 y  38:23    1.3456      20.00   n
                   OCDD     37017600 0.89 y  38:17    1.1686      20.00   n
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```
Run #3   Filename 21JL10A4D5  S: 6     I: 1
Acquired: 21-JUL-10   18:18:56          Processed: 22-JUL-10  12:01:11
Run: 15SE098D2    Analyte: TO9            Cal: TO90721104D5
                                       Comments:
Sample text: ST0721C :CS-3 10DXN336

                 Name           Resp   RA       RT       RRF                Mod?

      13C-1,2,3,4-TCDD    297616000 0.80 y  20:00          -     100.00   n

      13C-2,3,7,8-TCDF    414416000 0.80 y  19:23     1.3925     100.00   n
          2,3,7,8-TCDF     40815800 0.78 y  19:25     0.9849      10.00   n
            Total TCDF            -    - n      -     0.9849      10.00   n

      13C-2,3,7,8-TCDD    279542000 0.79 y  20:13     0.9393     100.00   n
          2,3,7,8-TCDD     27062400 0.80 y  20:15     0.9681      10.00   n
            Total TCDD            -    - n      -     0.9681      10.00   n

     37Cl-2,3,7,8-TCDD     36762200 1.00 y  20:14     1.3151      10.00   n

   13C-1,2,3,7,8-PeCDF    256521000 1.55 y  25:18     0.8619     100.00   n
      1,2,3,7,8-PeCDF     138997400 1.55 y  25:20     1.0837      50.00   n
      2,3,4,7,8-PeCDF     138743000 1.55 y  26:53     1.0817      50.00   n
       Total F2 PeCDF             -    - n      -     1.0827     100.00   n
       Total F1 PeCDF             -    - n      -     1.0827     100.00   n

   13C-1,2,3,7,8-PeCDD    199400100 1.58 y  27:43     0.6700     100.00   n
      1,2,3,7,8-PeCDD      93821800 1.53 y  27:44     0.9410      50.00   n
           Total PeCDD            -    - n      -     0.9410      50.00   n

 13C-1,2,3,7,8,9-HxCDD    211830200 1.30 y  33:22          -     100.00   n

 13C-1,2,3,4,7,8-HxCDF    206662600 0.51 y  32:17     0.9756     100.00   n
     1,2,3,4,7,8-HxCDF    125916200 1.16 y  32:18     1.2186      50.00   n
     1,2,3,6,7,8-HxCDF    145591100 1.17 y  32:23     1.4090      50.00   n
     2,3,4,6,7,8-HxCDF    139989400 1.18 y  32:55     1.3548      50.00   n
     1,2,3,7,8,9-HxCDF    129462400 1.18 y  33:33     1.2529      50.00   n
           Total HxCDF            -    - n      -     1.3088     200.00   n

 13C-1,2,3,6,7,8-HxCDD    194269900 1.31 y  33:07     0.9171     100.00   n
     1,2,3,4,7,8-HxCDD     94117900 1.23 y  33:03     0.9689      50.00   n
     1,2,3,6,7,8-HxCDD    106981800 1.27 y  33:08     1.1014      50.00   n
     1,2,3,7,8,9-HxCDD    108772200 1.25 y  33:23     1.1198      50.00   n
           Total HxCDD            -    - n      -     1.0634     150.00   n

13C-1,2,3,4,6,7,8-HpCDF   194898500 0.43 y  34:53     0.9201     100.00   n
    1,2,3,4,6,7,8-HpCDF   131367000 1.01 y  34:54     1.3481      50.00   n
    1,2,3,4,7,8,9-HpCDF   108439900 1.02 y  36:02     1.1128      50.00   n
           Total HpCDF            -    - n      -     1.2304     100.00   n

13C-1,2,3,4,6,7,8-HpCDD   176478000 1.04 y  35:43     0.8331     100.00   n
    1,2,3,4,6,7,8-HpCDD    94723500 1.02 y  35:43     1.0735      50.00   n
           Total HpCDD            -    - n      -     1.0735      50.00   n

              13C-OCDD    266609000 0.89 y  38:16     0.6293     200.00   n
                  OCDF    179957800 0.91 y  38:23     1.3500     100.00   n
                  OCDD    154054800 0.90 y  38:16     1.1557     100.00   n
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```
Run #5   Filename 21JL10A4D5  S: 8     I: 1
Acquired: 21-JUL-10   19:49:00          Processed: 22-JUL-10  12:01:13
Run: 15SE098D2    Analyte: TO9            Cal: TO90721104D5
                                       Comments:
Sample text: ST0721E :CS-4 10DXN337

                  Name          Resp   RA       RT      RRF             Mod?

      13C-1,2,3,4-TCDD    363554000 0.80 y  20:01         -    100.00   n

      13C-2,3,7,8-TCDF    402416000 0.79 y  19:24    1.1069    100.00   n
          2,3,7,8-TCDF    166293900 0.77 y  19:25    1.0331     40.00   n
            Total TCDF            -    - n      -    1.0331     40.00   n

      13C-2,3,7,8-TCDD    314971000 0.80 y  20:13    0.8664    100.00   n
          2,3,7,8-TCDD    127934900 0.78 y  20:15    1.0154     40.00   n
            Total TCDD            -    - n      -    1.0154     40.00   n

     37Cl-2,3,7,8-TCDD    166729600 1.00 y  20:15    1.3234     40.00   n

   13C-1,2,3,7,8-PeCDF    317818000 1.53 y  25:17    0.8742    100.00   n
       1,2,3,7,8-PeCDF    712080000 1.54 y  25:19    1.1203    200.00   n
       2,3,4,7,8-PeCDF    692103000 1.53 y  26:51    1.0888    200.00   n
        Total F2 PeCDF            -    - n      -    1.1045    400.00   n
        Total F1 PeCDF            -    - n      -    1.1045    400.00   n

   13C-1,2,3,7,8-PeCDD    237598000 1.55 y  27:40    0.6535    100.00   n
       1,2,3,7,8-PeCDD    458679000 1.50 y  27:43    0.9652    200.00   n
           Total PeCDD            -    - n      -    0.9652    200.00   n

 13C-1,2,3,7,8,9-HxCDD    248923000 1.30 y  33:22         -    100.00   n

 13C-1,2,3,4,7,8-HxCDF    267009400 0.51 y  32:16    1.0727    100.00   n
     1,2,3,4,7,8-HxCDF    658410000 1.16 y  32:17    1.2329    200.00   n
     1,2,3,6,7,8-HxCDF    673142000 1.18 y  32:24    1.2605    200.00   n
     2,3,4,6,7,8-HxCDF    645815000 1.17 y  32:54    1.2093    200.00   n
     1,2,3,7,8,9-HxCDF    567208000 1.17 y  33:33    1.0621    200.00   n
           Total HxCDF            -    - n      -    1.1912    800.00   n

 13C-1,2,3,6,7,8-HxCDD    197349200 1.31 y  33:06    0.7928    100.00   n
     1,2,3,4,7,8-HxCDD    458143000 1.26 y  33:03    1.1607    200.00   y ✓
     1,2,3,6,7,8-HxCDD    484675000 1.28 y  33:07    1.2280    200.00   y ✓
     1,2,3,7,8,9-HxCDD    488147000 1.26 y  33:23    1.2368    200.00   n
           Total HxCDD            -    - n      -    1.2085    600.00   n

13C-1,2,3,4,6,7,8-HpCDF   214761200 0.43 y  34:53    0.8628    100.00   n
   1,2,3,4,6,7,8-HpCDF    593215000 1.01 y  34:54    1.3811    200.00   n
   1,2,3,4,7,8,9-HpCDF    485366000 1.01 y  36:03    1.1300    200.00   n
           Total HpCDF            -    - n      -    1.2556    400.00   n

13C-1,2,3,4,6,7,8-HpCDD   197451500 1.05 y  35:42    0.7932    100.00   n
   1,2,3,4,6,7,8-HpCDD    435214000 1.03 y  35:43    1.1021    200.00   n
           Total HpCDD            -    - n      -    1.1021    200.00   n

              13C-OCDD    291770000 0.90 y  38:16    0.5861    200.00   n
                  OCDF    820312000 0.90 y  38:23    1.4058    400.00   n
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OCDD     694943000 0.90 y  38:16    1.1909     400.00    n
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```
Run #5   Filename 21JL10A4D5  S: 8     I: 1
Acquired: 21-JUL-10   19:49:00           Processed: 22-JUL-10  12:01:13
Run: 15SE098D2    Analyte: TO9              Cal: TO90721104D5
                                    Comments:
Sample text: ST0721E :CS-4 10DXN337

                     Name          Resp   RA        RT       RRF              Mod?

       13C-1,2,3,4-TCDD   363554000 0.80 y  20:01         -    100.00  n

       13C-2,3,7,8-TCDF   402416000 0.79 y  19:24    1.1069    100.00  n
           2,3,7,8-TCDF   166293900 0.77 y  19:25    1.0331     40.00  n
             Total TCDF           -    - n      -    1.0331     40.00  n

       13C-2,3,7,8-TCDD   314971000 0.80 y  20:13    0.8664    100.00  n
           2,3,7,8-TCDD   127934900 0.78 y  20:15    1.0154     40.00  n
             Total TCDD           -    - n      -    1.0154     40.00  n

      37Cl-2,3,7,8-TCDD   166729600 1.00 y  20:15    1.3234     40.00  n

    13C-1,2,3,7,8-PeCDF   317818000 1.53 y  25:17    0.8742    100.00  n
        1,2,3,7,8-PeCDF   712080000 1.54 y  25:19    1.1203    200.00  n
        2,3,4,7,8-PeCDF   692103000 1.53 y  26:51    1.0888    200.00  n
         Total F2 PeCDF           -    - n      -    1.1045    400.00  n
         Total F1 PeCDF           -    - n      -    1.1045    400.00  n

    13C-1,2,3,7,8-PeCDD   237598000 1.55 y  27:40    0.6535    100.00  n
        1,2,3,7,8-PeCDD   458679000 1.50 y  27:43    0.9652    200.00  n
            Total PeCDD           -    - n      -    0.9652    200.00  n

  13C-1,2,3,7,8,9-HxCDD   248923000 1.30 y  33:22         -    100.00  n

  13C-1,2,3,4,7,8-HxCDF   267009400 0.51 y  32:16    1.0727    100.00  n
      1,2,3,4,7,8-HxCDF   658410000 1.16 y  32:17    1.2329    200.00  n
      1,2,3,6,7,8-HxCDF   673142000 1.18 y  32:24    1.2605    200.00  n
      2,3,4,6,7,8-HxCDF   645815000 1.17 y  32:54    1.2093    200.00  n
      1,2,3,7,8,9-HxCDF   567208000 1.17 y  33:33    1.0621    200.00  n
            Total HxCDF           -    - n      -    1.1912    800.00  n

  13C-1,2,3,6,7,8-HxCDD   197349200 1.31 y  33:06    0.7928    100.00  n
      1,2,3,4,7,8-HxCDD   422231040 1.45 n  33:03    1.0698    200.00  n
      1,2,3,6,7,8-HxCDD   481044000 1.12 y  33:07    1.2188    200.00  n
      1,2,3,7,8,9-HxCDD   488146000 1.26 y  33:23    1.2368    200.00  n
            Total HxCDD           -    - n      -    1.1751    600.00  n

13C-1,2,3,4,6,7,8-HpCDF   214761200 0.43 y  34:53    0.8628    100.00  n
    1,2,3,4,6,7,8-HpCDF   593215000 1.01 y  34:54    1.3811    200.00  n
    1,2,3,4,7,8,9-HpCDF   485366000 1.01 y  36:03    1.1300    200.00  n
            Total HpCDF           -    - n      -    1.2556    400.00  n

13C-1,2,3,4,6,7,8-HpCDD   197451500 1.05 y  35:42    0.7932    100.00  n
    1,2,3,4,6,7,8-HpCDD   435214000 1.03 y  35:43    1.1021    200.00  n
            Total HpCDD           -    - n      -    1.1021    200.00  n

               13C-OCDD   291770000 0.90 y  38:16    0.5861    200.00  n
                   OCDF   820312000 0.90 y  38:23    1.4058    400.00  n
                   OCDD   694943000 0.90 y  38:16    1.1909    400.00  n
```

```
Run #4   Filename 21JL10A4D5  S: 7    I: 1
Acquired: 21-JUL-10   19:03:58          Processed: 22-JUL-10  12:01:12
Run: 15SE098D2    Analyte: TO9           Cal: TO90721104D5
                                    Comments:
Sample text: ST0721D :CS-5 10DXN339

                  Name        Resp   RA      RT      RRF               Mod?

      13C-1,2,3,4-TCDD   350659000 0.80 y  20:02        -     100.00   n

      13C-2,3,7,8-TCDF   360772000 0.79 y  19:24   1.0288     100.00   n
          2,3,7,8-TCDF   697458000 0.77 y  19:25   0.9666     200.00   n
            Total TCDF           -    - n      -   0.9666     200.00   n

      13C-2,3,7,8-TCDD   309835000 0.78 y  20:14   0.8836     100.00   n
          2,3,7,8-TCDD   626791000 0.79 y  20:16   1.0115     200.00   n
            Total TCDD           -    - n      -   1.0115     200.00   n

     37Cl-2,3,7,8-TCDD   837356000 1.00 y  20:15   1.3513     200.00   n

   13C-1,2,3,7,8-PeCDF   310980000 1.54 y  25:18   0.8868     100.00   n
       1,2,3,7,8-PeCDF  3461250000 1.54 y  25:20   1.1130    1000.00   n
       2,3,4,7,8-PeCDF  3239400000 1.52 y  26:52   1.0417    1000.00   n
         Total F2 PeCDF          -    - n      -   1.0773    2000.00   n
         Total F1 PeCDF          -    - n      -   1.0773    2000.00   n

   13C-1,2,3,7,8-PeCDD   235100700 1.56 y  27:42   0.6705     100.00   n
       1,2,3,7,8-PeCDD  2235314000 1.50 y  27:44   0.9508    1000.00   n
           Total PeCDD           -    - n      -   0.9508    1000.00   n

 13C-1,2,3,7,8,9-HxCDD   256316000 1.29 y  33:22        -     100.00   n

 13C-1,2,3,4,7,8-HxCDF   256243600 0.51 y  32:16   0.9997     100.00   n
     1,2,3,4,7,8-HxCDF  3131920000 1.15 y  32:17   1.2222    1000.00   n
     1,2,3,6,7,8-HxCDF  3410730000 1.19 y  32:24   1.3311    1000.00   n
     2,3,4,6,7,8-HxCDF  3245730000 1.18 y  32:55   1.2667    1000.00   n
     1,2,3,7,8,9-HxCDF  2825950000 1.18 y  33:33   1.1028    1000.00   n
           Total HxCDF           -    - n      -   1.2307    4000.00   n

 13C-1,2,3,6,7,8-HxCDD   198188400 1.30 y  33:07   0.7732     100.00   n
     1,2,3,4,7,8-HxCDD  2319900000 1.23 y  33:03   1.1706    1000.00   n
     1,2,3,6,7,8-HxCDD  2219442000 1.26 y  33:07   1.1199    1000.00   n
     1,2,3,7,8,9-HxCDD  2474590000 1.26 y  33:23   1.2486    1000.00   n
           Total HxCDD           -    - n      -   1.1797    3000.00   n

13C-1,2,3,4,6,7,8-HpCDF  222373600 0.44 y  34:54   0.8676     100.00   n
    1,2,3,4,6,7,8-HpCDF 3008480000 1.01 y  34:54   1.3529    1000.00   n
    1,2,3,4,7,8,9-HpCDF 2503650000 1.02 y  36:03   1.1259    1000.00   n
           Total HpCDF           -    - n      -   1.2394    2000.00   n

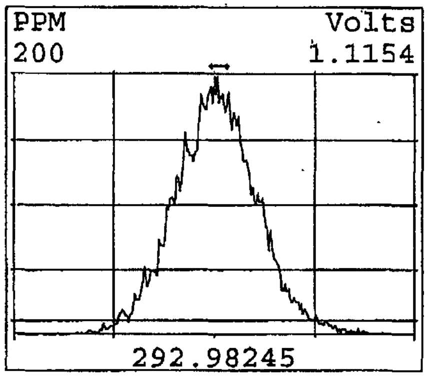
13C-1,2,3,4,6,7,8-HpCDD  196025300 1.04 y  35:42   0.7648     100.00   n
    1,2,3,4,6,7,8-HpCDD 2131190000 1.02 y  35:43   1.0872    1000.00   n
           Total HpCDD           -    - n      -   1.0872    1000.00   n

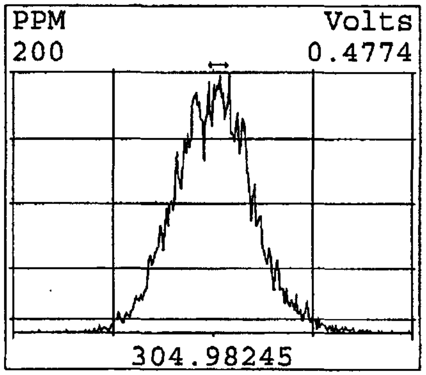
               13C-OCDD  305368000 0.90 y  38:16   0.5957     200.00   n
                   OCDF 4252770000 0.90 y  38:23   1.3927    2000.00   n
                   OCDD 3562830000 0.90 y  38:16   1.1667    2000.00   n
```

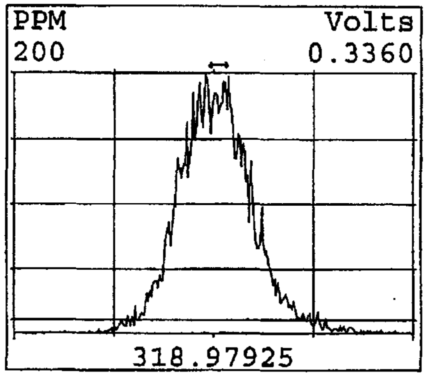
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
21JL10A4D5	1	CP0721	DB-5 CPSM 3732-08				1.00000	
21JL10A4D5	2	SB0721	Solvent Blank C-14				1.00000	
21JL10A4D5	3	ST0721	CS-0.2 10DXN333 (Not used) sensitivity ✓ only				1.00000	
21JL10A4D5	4	ST0721A	CS-1 10DXN342				1.00000	
21JL10A4D5	5	ST0721B	CS-2 10DXN334				1.00000	
21JL10A4D5	6	ST0721C	CS-3 10DXN336				1.00000	
21JL10A4D5	7	ST0721D	CS-5 10DXN339				1.00000	
21JL10A4D5	8	ST0721E	CS-4 10DXN337				1.00000	
21JL10A4D5	9	ST0721F	2nd Source 10DXN340				1.00000	
21JL10A4D5	10						1.00000	
21JL10A4D5	11						1.00000	
21JL10A4D5	12						1.00000	
21JL10A4D5	13		KSS 07-21-10				1.00000	

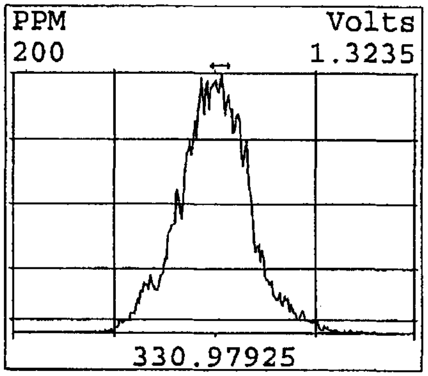
log file ✓'d
NK 7/22/10

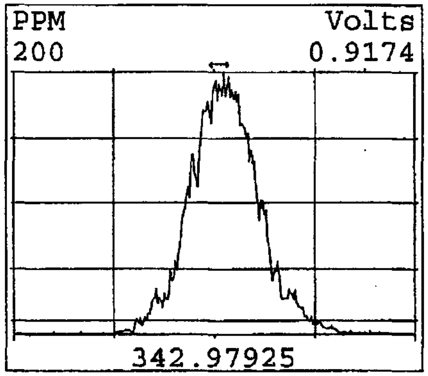
Peak Locate Examination:21-JUL-2010:14:30 File:21JL10A4D5
Experiment:DIOXINRES Function:1 Reference:PFK

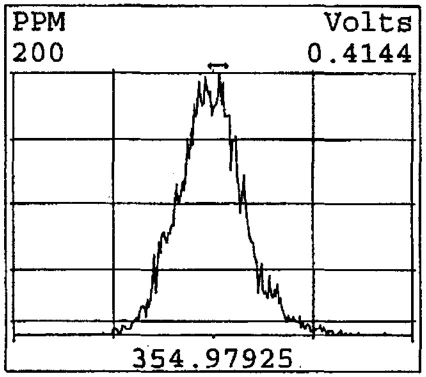


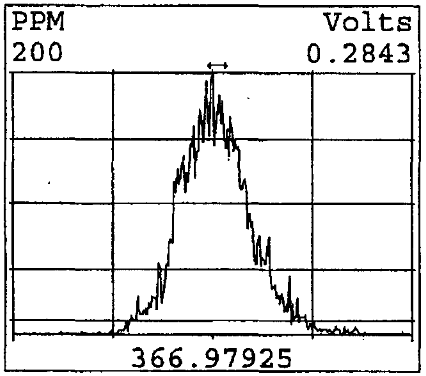


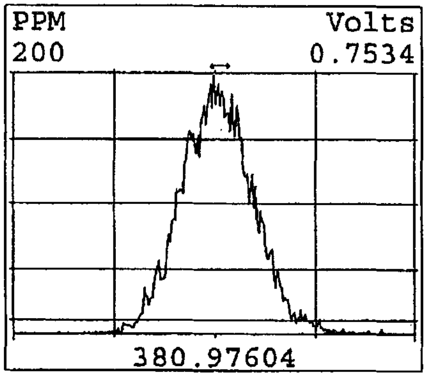


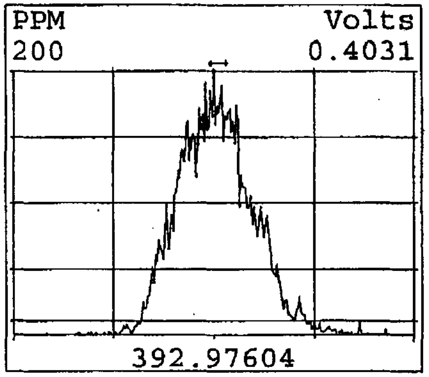


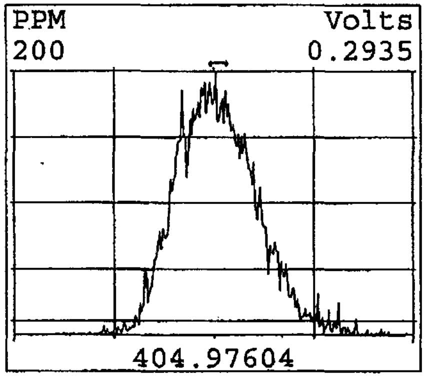


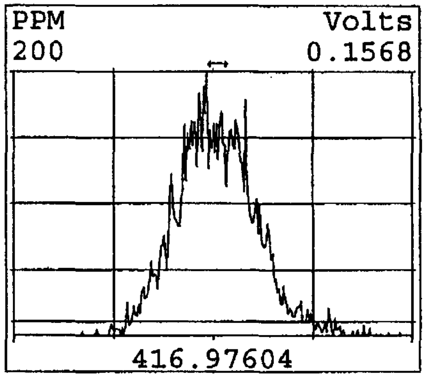




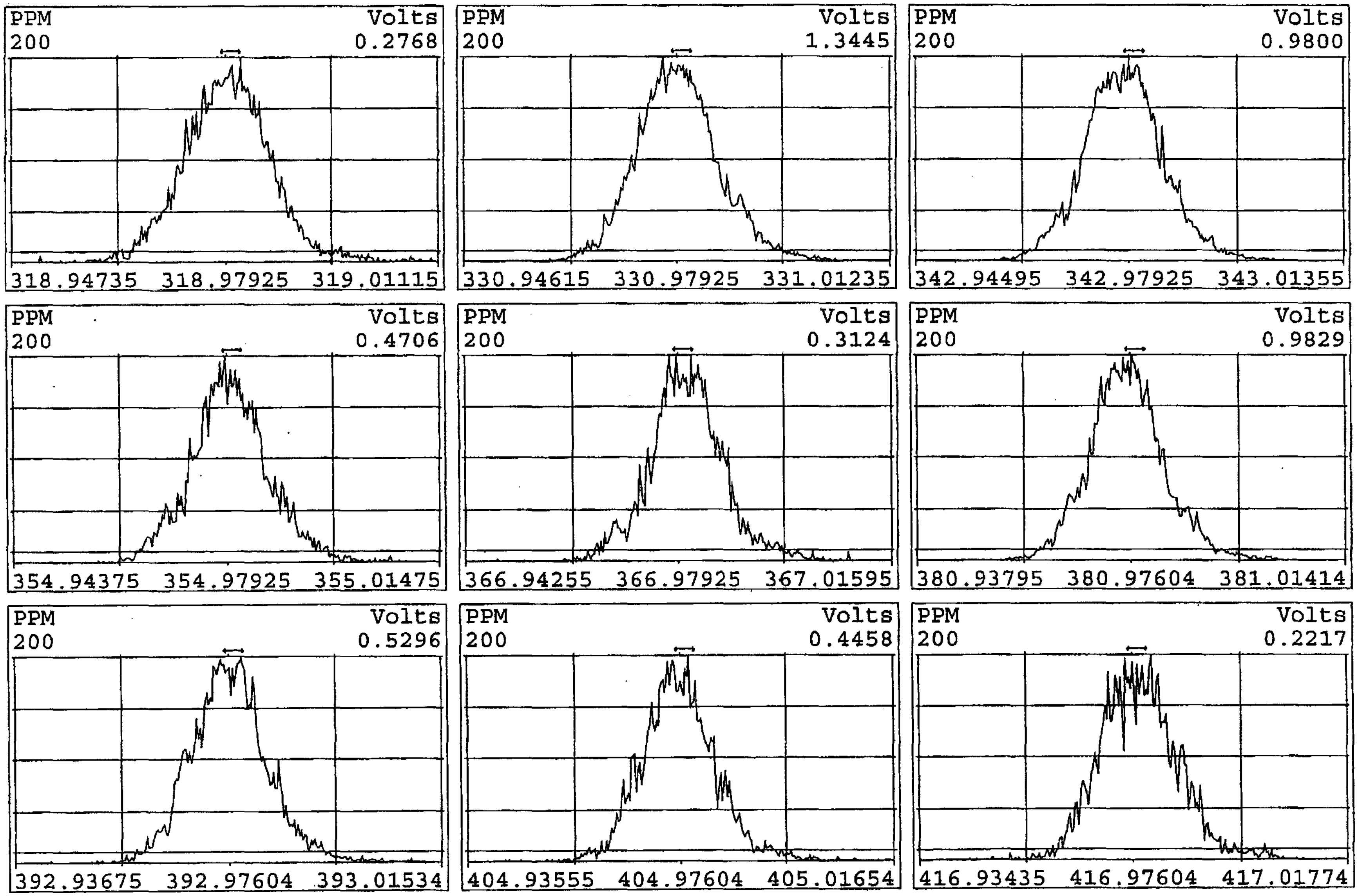








Peak Locate Examination:21-JUL-2010:14:31 File:21JL10A4D5
Experiment:DIOXINRES Function:2 Reference:PFK



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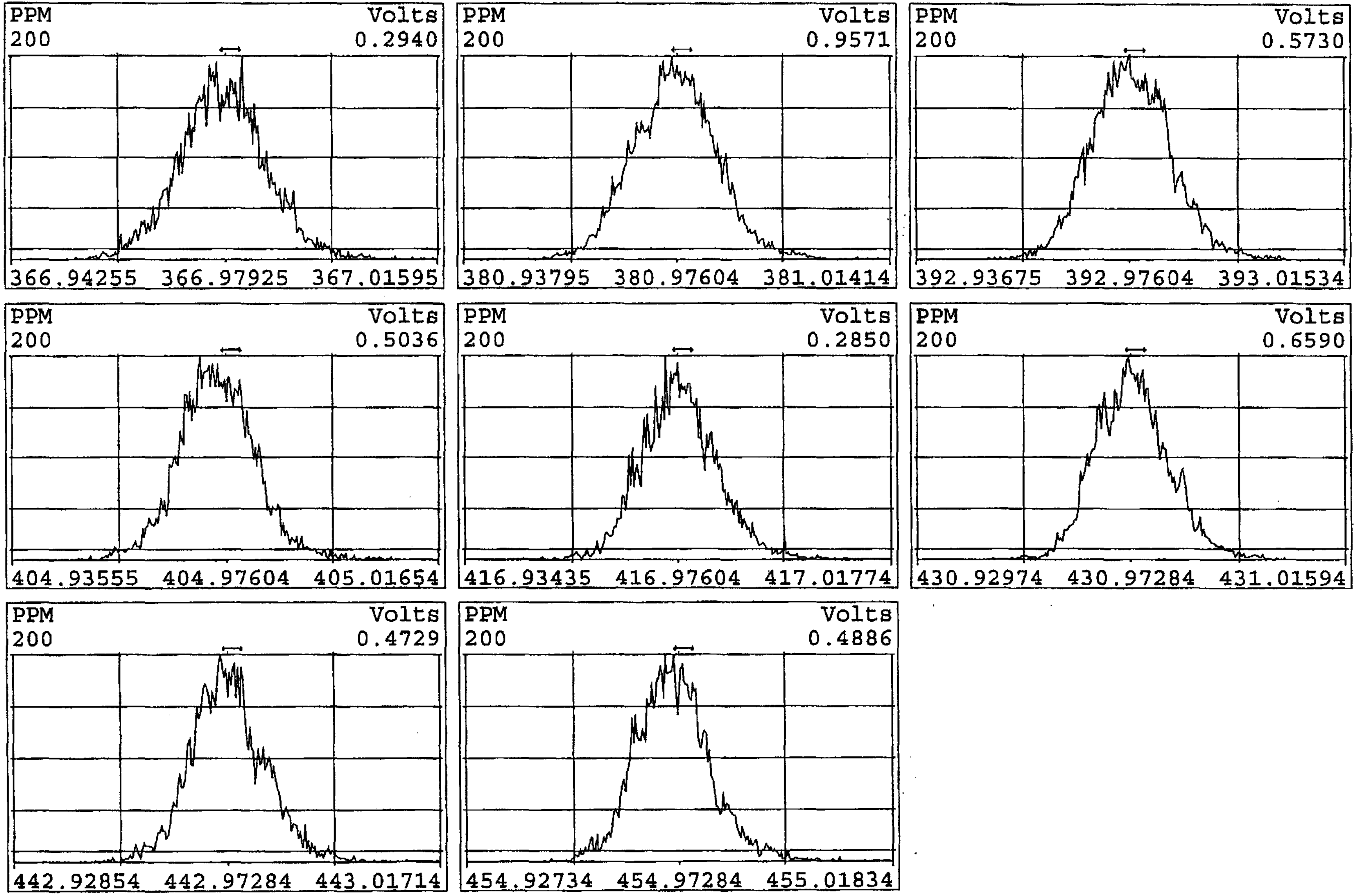
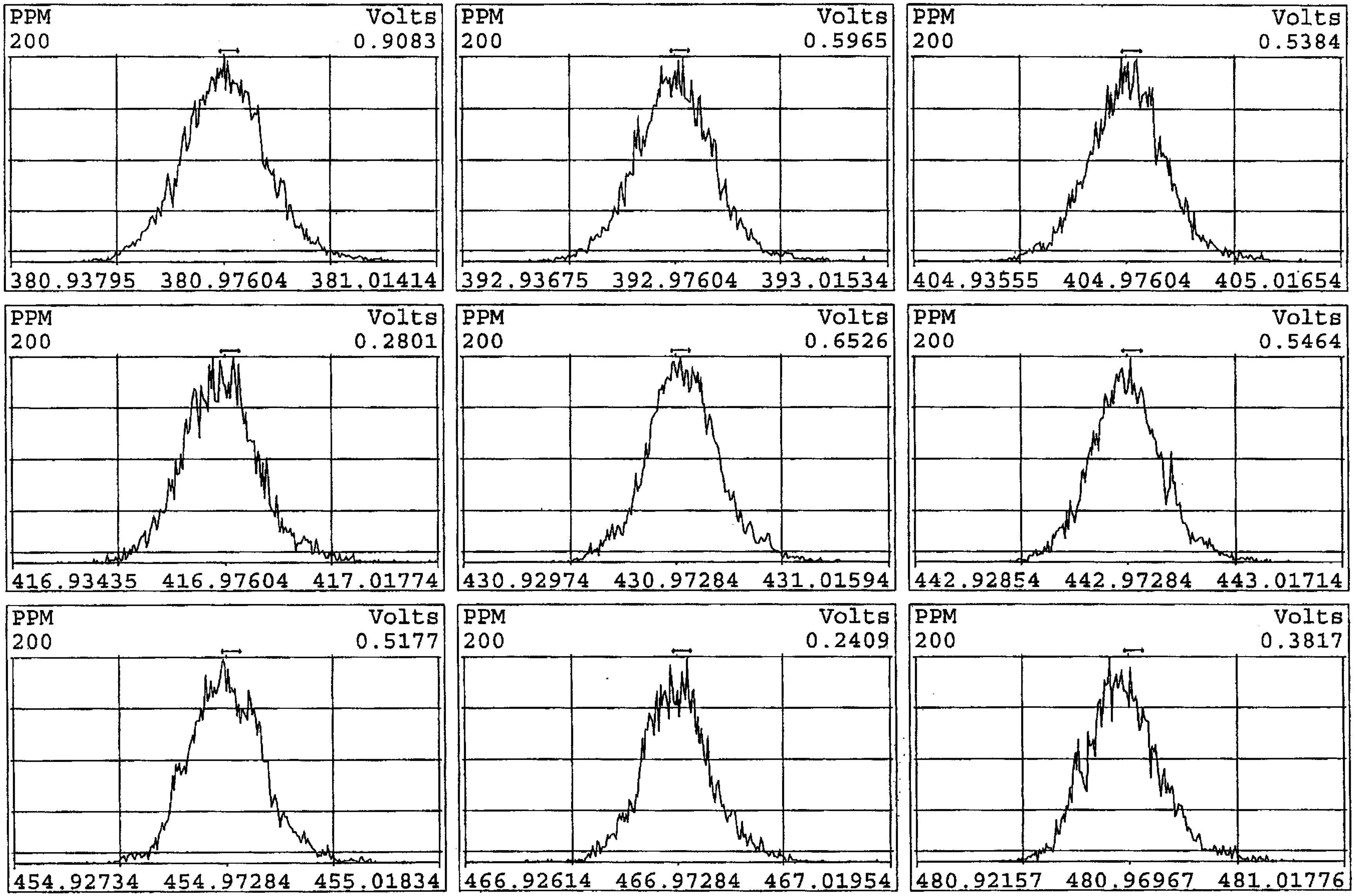
Experiment:DIOXINRES Function:3 Reference:PFK



Peak Locate Examination:21-JUL-2010:14:31 File:21JL10A4D5
Experiment:DIOXINRES Function:4 Reference:PFK



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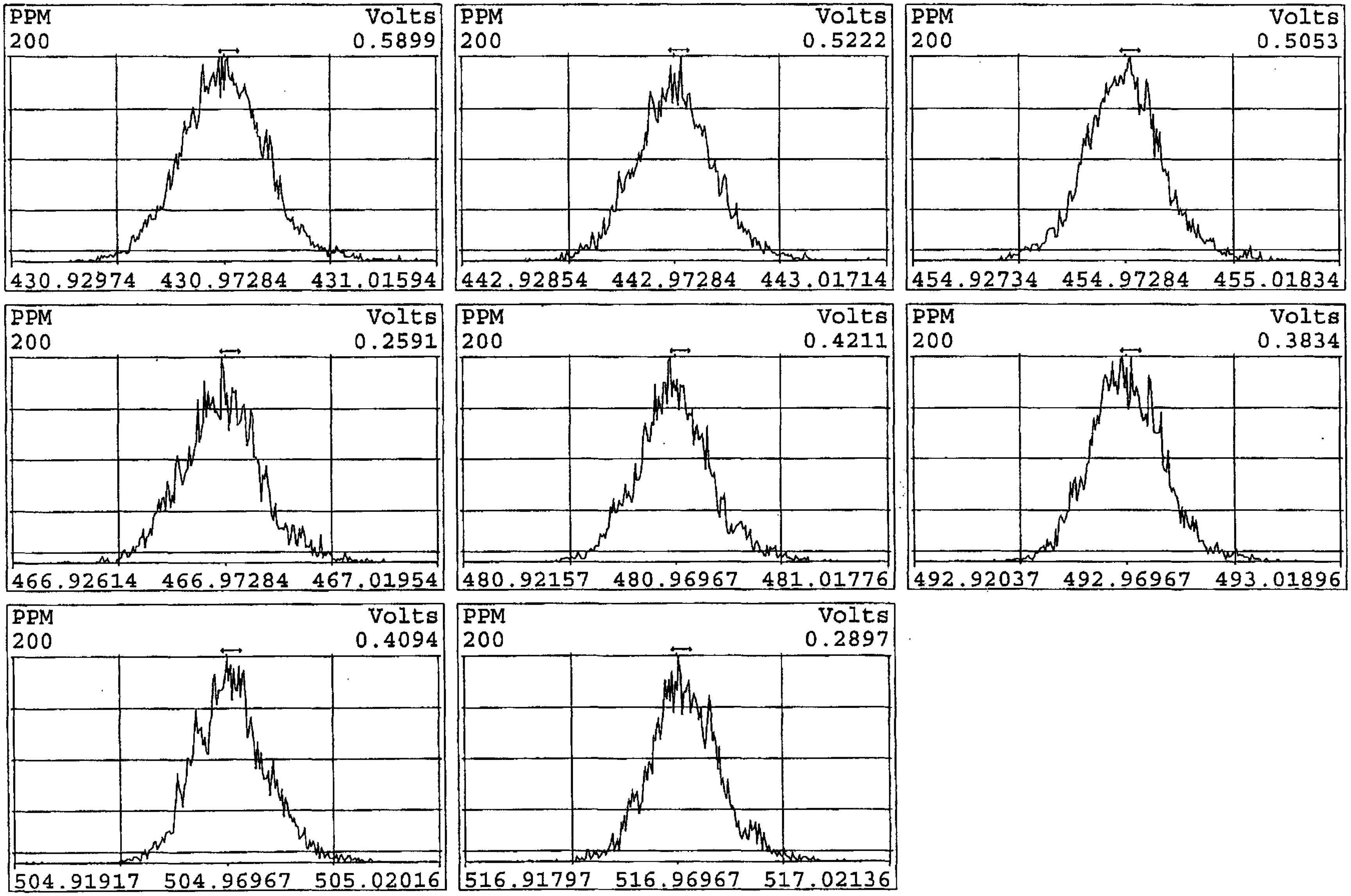
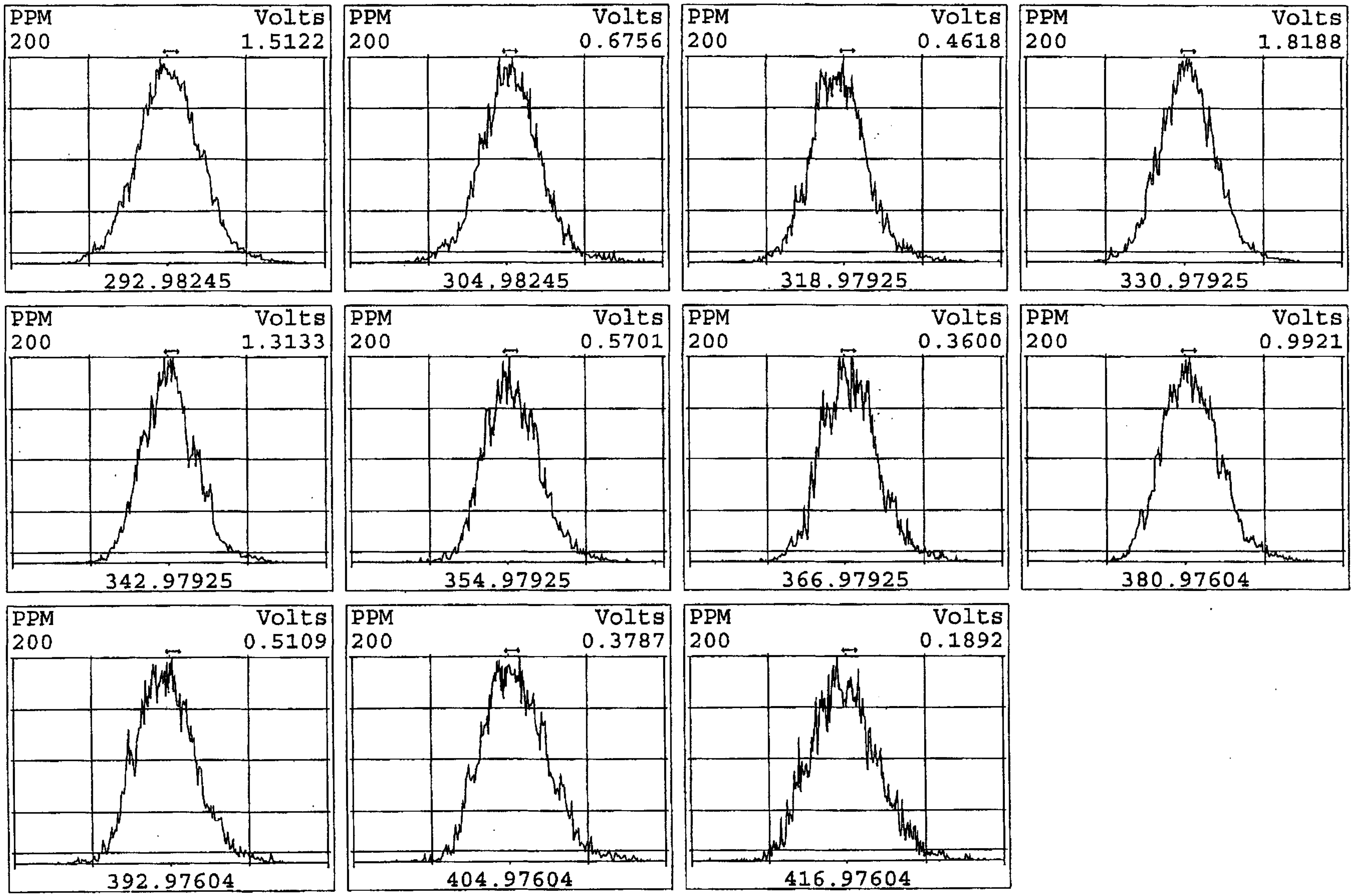
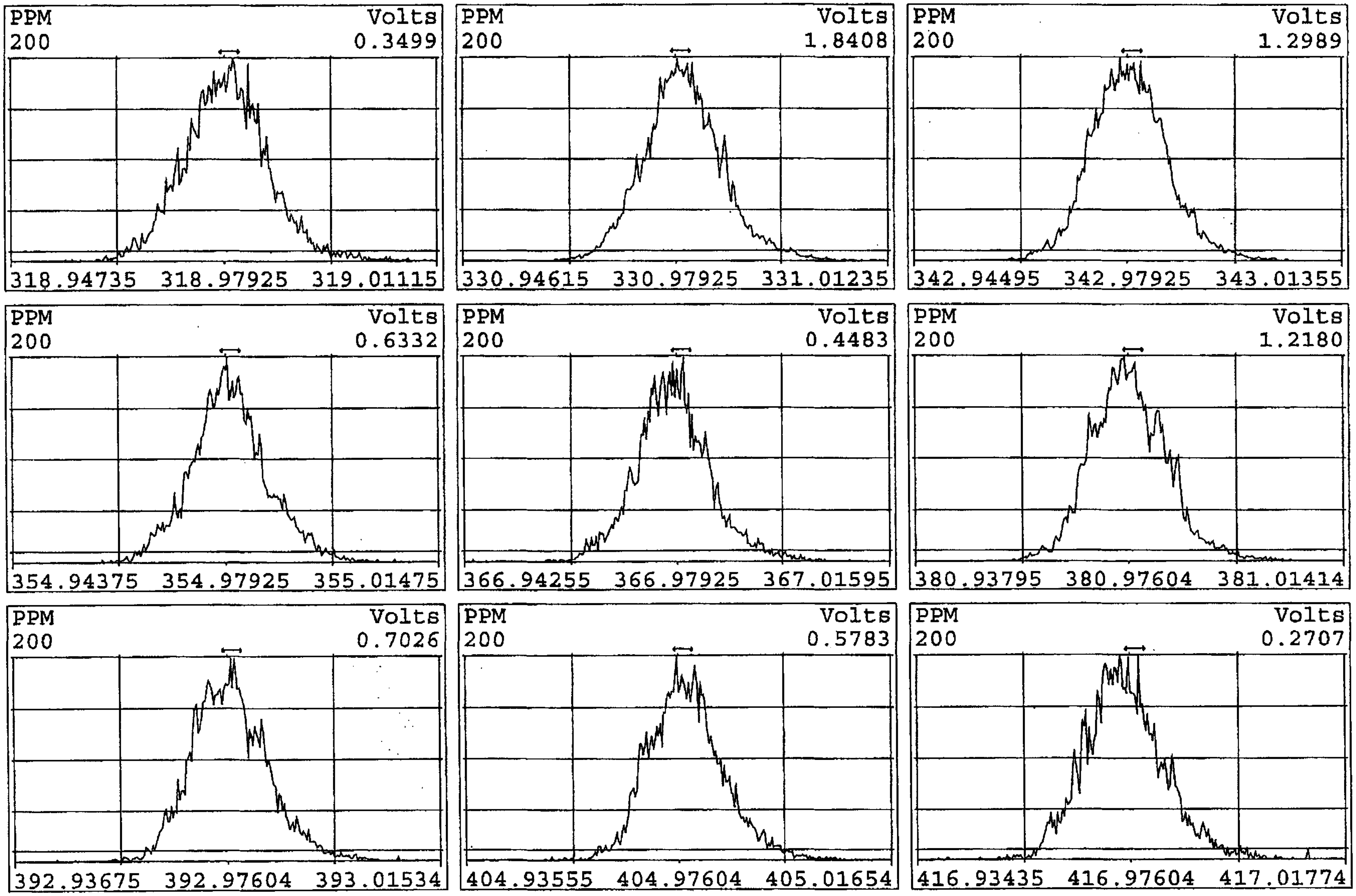
Experiment:DIOXINRES Function:5 Reference:PFK



Peak Locate Examination:21-JUL-2010:21:39 File:RESCHK21JL10A4D5
Experiment:DIOXINRES Function:1 Reference:PFK



Peak Locate Examination:21-JUL-2010:21:40 File:RESCHK21JL10A4D5
Experiment:DIOXINRES Function:2 Reference:PFK



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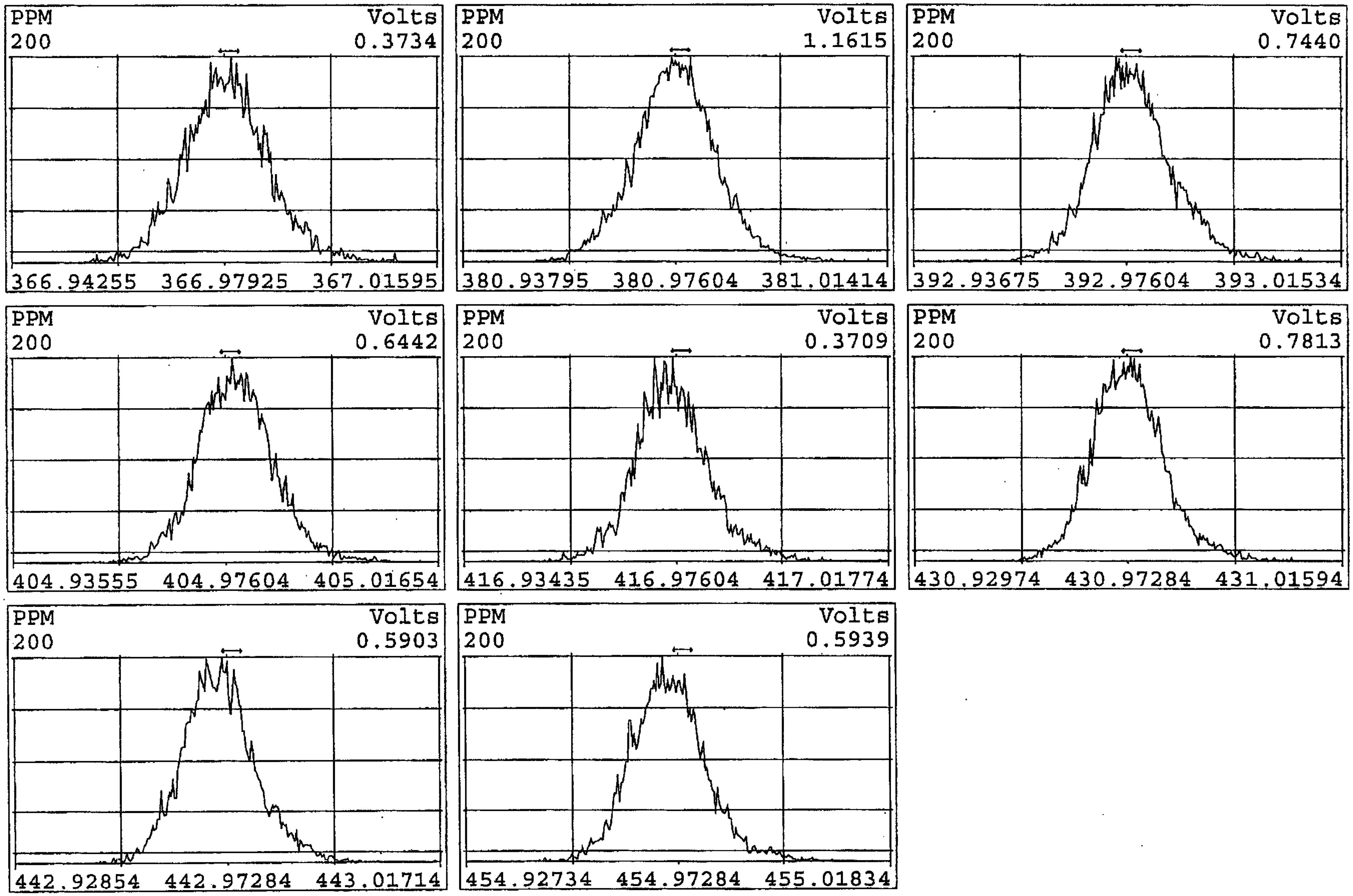
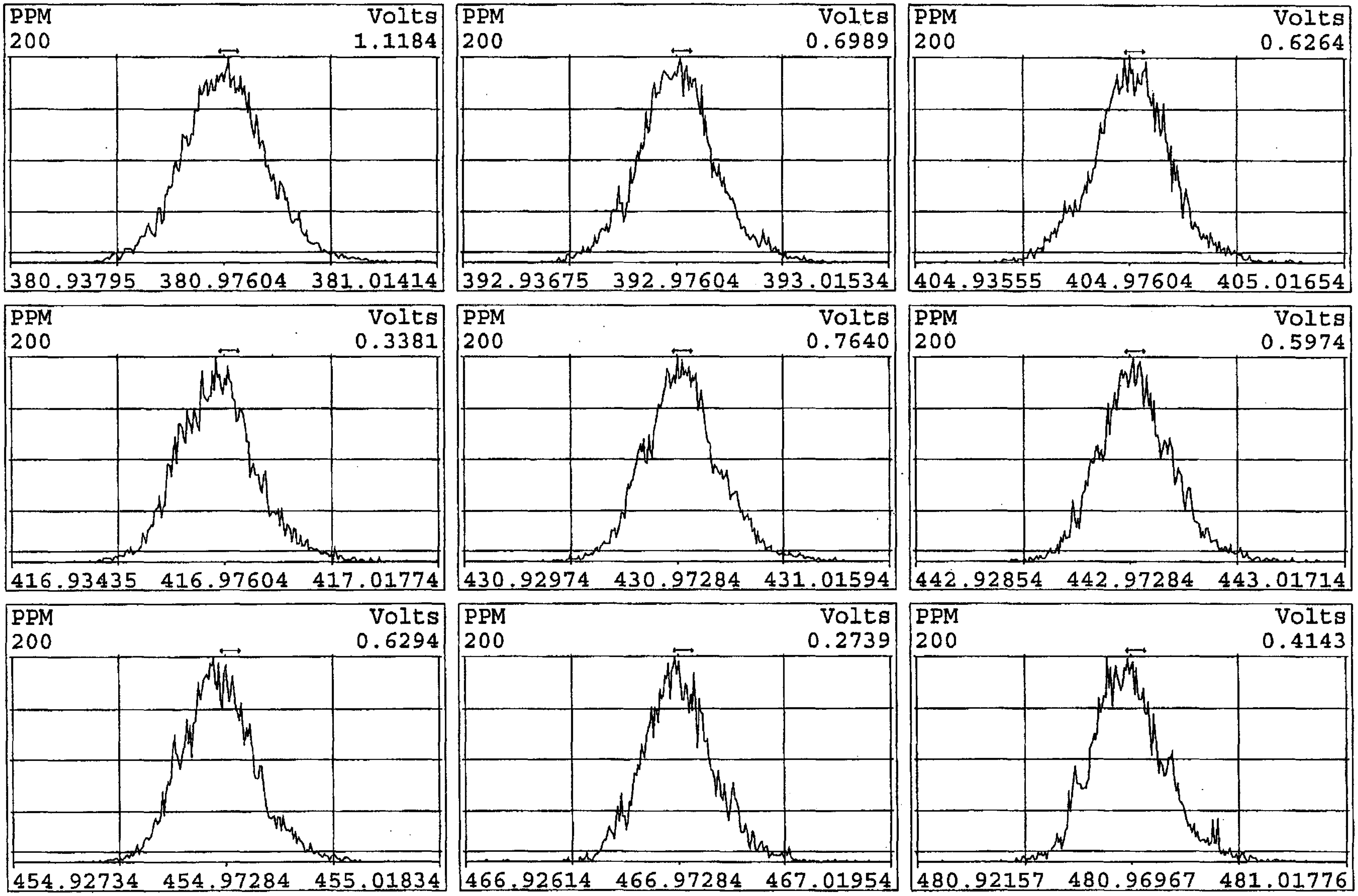
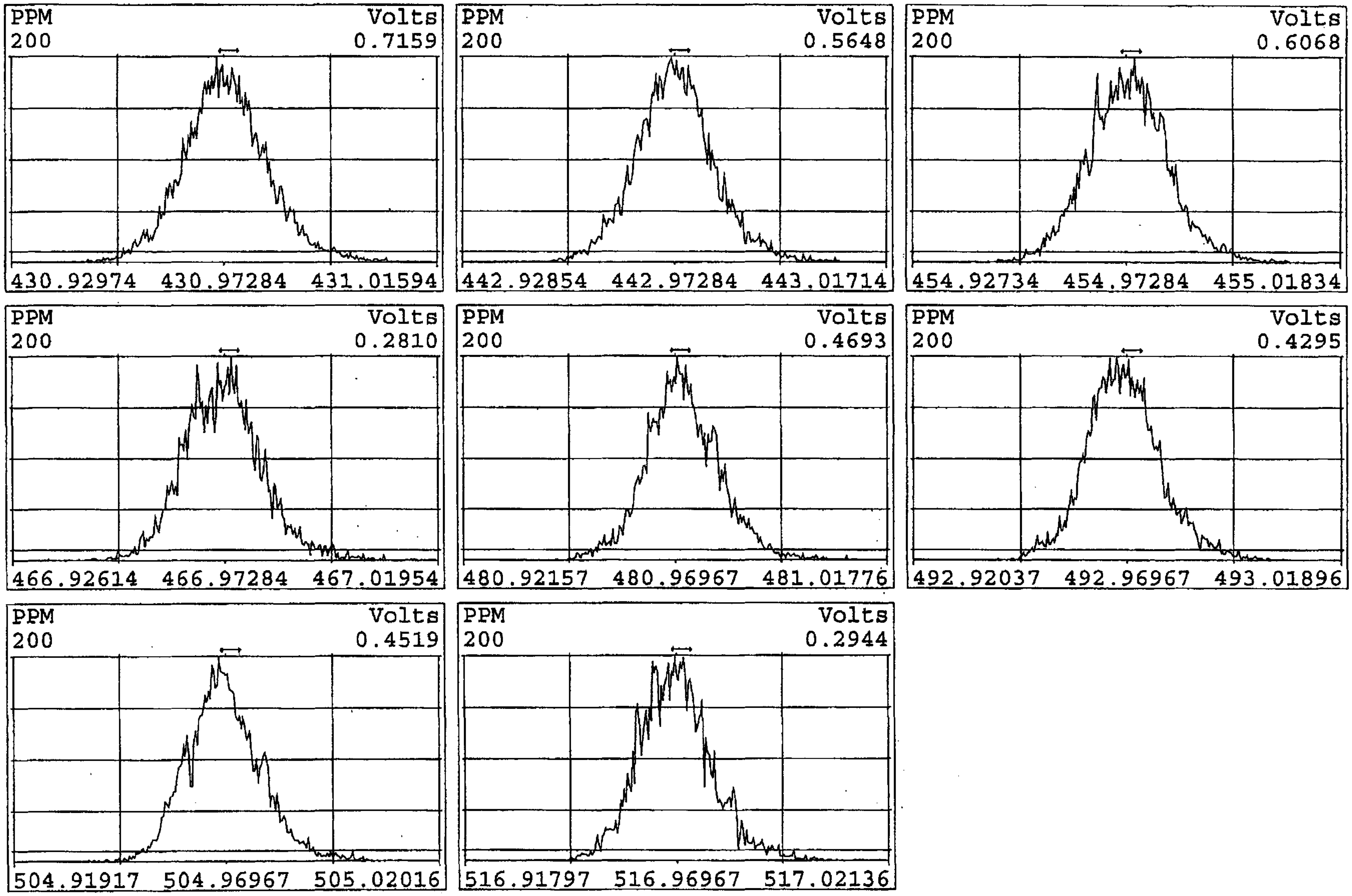
Experiment:DIOXINRES Function:3 Reference:PFK



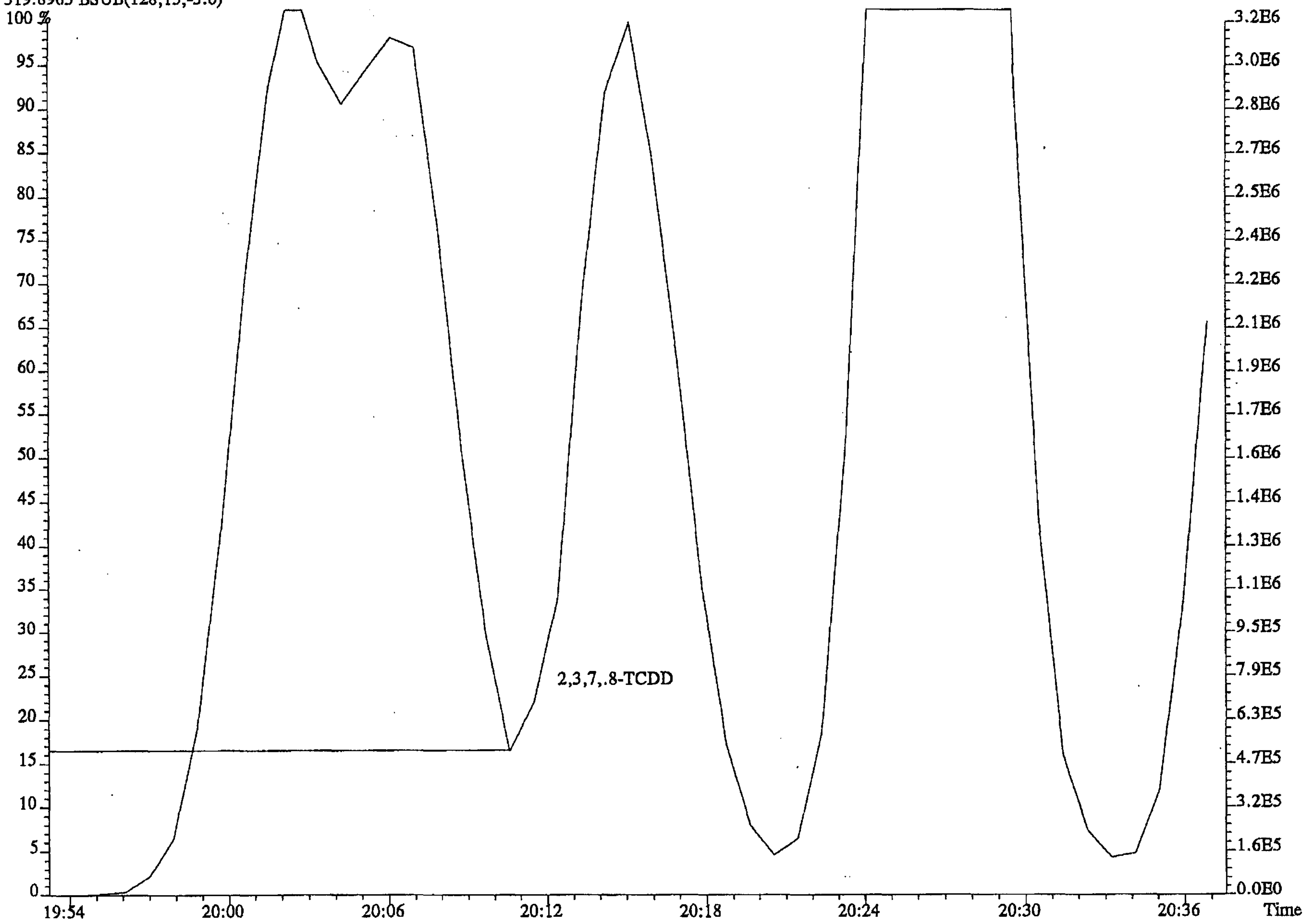
Peak Locate Examination:21-JUL-2010:21:41 File:RESCHK21JL10A4D5
Experiment:DIOXINRES Function:4 Reference:PFK



Peak Locate Examination:21-JUL-2010:21:44 File:RESCHK21JL10A4D5
Experiment:DIOXINRES Function:5 Reference:PFK



File:21JL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Exp:DIOXINRES
319.8965 BSUB(128,15,-3.0)



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   Quantitation Summary     TestAmerica West Sacramento                          Page 1 o

 Run text: ST0721F          Sample text: ST0721F :2nd Source 10DXN340
 Run #6  Filename: 21JL10A4D5  S: 9    I: 1     Results: 21JL10A4D51613SS
 Acquired: 21-JUL-10    20:34:02          Processed: 22-JUL-10  10:21:57
 Run: 21JL10A4D5       Analyte: 1613          Cal: 16130721104D5    Spiked @ 200/500/1000
 Factor 1: 800.000      Factor 2: 20.000      Sample size: 1.000000
                                                                          7/22/10

                   Name        Resp   RA      RT  RRF           Conc             EDL       Rec   M

       13C-1,2,3,4-TCDD   307629000 0.78 y  20:01    -          92.11              -         -   n

       13C-2,3,7,8-TCDF   413901000 0.78 y  19:24 1.23        2188.90             0.92     109.4   n
           2,3,7,8-TCDF    38830800 0.76 y  19:25 0.99         188.67 94.3%       0.48         -   n
             Total TCDF    39472107 1.33 n  17:31 0.99         191.78             0.48         -   n

       13C-2,3,7,8-TCDD   294375000 0.78 y  20:13 0.91        2114.60             2.32     105.7   n
           2,3,7,8-TCDD    27522700 0.81 y  20:14 0.98         190.13 95%         0.52         -   n
             Total TCDD    27522700 0.81 y  20:14 0.98         190.13             0.52         -   n

      37Cl-2,3,7,8-TCDD    76164600 1.00 y  20:14 1.20         412.65             0.41     103.2   n

    13C-1,2,3,7,8-PeCDF   302436000 1.54 y  25:17 0.88        2244.44             1.40     112.2   n
        1,2,3,7,8-PeCDF    77546500 1.54 y  25:19 1.08         476.31 95.3%       1.04         -   n
    13C-2,3,4,7,8-PeCDF   271363000 1.54 y  26:49 0.88        2003.66             1.40     100.2   n
        2,3,4,7,8-PeCDF    68923500 1.55 y  26:51 1.04         488.17 97.6%       1.32         -   n
         Total F2 PeCDF   149591746 1.40 y  23:44 1.06         985.04             1.17         -   n
         Total F1 PeCDF           *    * n NotFnd 1.06              *             1.08         -   n

    13C-1,2,3,7,8-PeCDD   187042900 1.56 y  27:41 0.66        1840.17             0.85      92.0   n
        1,2,3,7,8-PeCDD    41178400 1.55 y  27:43 0.93         475.77 95%         1.23         -   n
            Total PeCDD    41347624 2.76 n  25:18 0.93         477.73             1.23         -   n

  13C-1,2,3,7,8,9-HxCDD   186030000 1.31 y  33:22    -          78.56              -         -   y

  13C-1,2,3,4,7,8-HxCDF   197163100 0.50 y  32:16 1.04        2028.83             4.92     101.4   n
      1,2,3,4,7,8-HxCDF    62815000 1.17 y  32:17 1.22         523.47 104.7%      1.49         -   n
  13C-1,2,3,6,7,8-HxCDF   249545100 0.52 y  32:22 1.19        2251.50             4.31     112.6   n
      1,2,3,6,7,8-HxCDF    64154700 1.18 y  32:24 1.12         458.58 91.7%       1.45         -   n
  13C-2,3,4,6,7,8-HxCDF   228157700 0.51 y  32:54 1.12        2184.24             4.58     109.2   n
      2,3,4,6,7,8-HxCDF    61275400 1.15 y  32:54 1.14         469.19 93.8%       1.35         -   n
  13C-1,2,3,7,8,9-HxCDF   202978100 0.52 y  33:31 1.02        2140.44             5.04     107.0   n
      1,2,3,7,8,9-HxCDF    54870000 1.19 y  33:32 1.12         482.01 96.4%       1.58         -   n
            Total HxCDF   243548785 1.21 y  31:03 1.15        1936.68             1.46         -   n

  13C-1,2,3,4,7,8-HxCDD   168448700 1.31 y  33:02 0.88        2067.53             1.23     103.4   y
      1,2,3,4,7,8-HxCDD    39583500 1.24 y  33:03 0.98         479.57 95.9%       1.14         -   n
  13C-1,2,3,6,7,8-HxCDD   171613300 1.31 y  33:06 0.83        2221.03             1.29     111.1   y
      1,2,3,6,7,8-HxCDD    45328400 1.28 y  33:07 1.16         454.27 90.8%       0.97         -   n
      1,2,3,7,8,9-HxCDD    45402600 1.24 y  33:22 1.15         465.05 93%         0.97         -   n
            Total HxCDD   130450140 4.93 n  32:18 1.09        1400.35             1.02         -   n

13C-1,2,3,4,6,7,8-HpCDF   182370400 0.43 y  34:53 0.91        2154.51             6.23     107.7   n
    1,2,3,4,6,7,8-HpCDF    58068900 1.00 y  34:54 1.35         473.20 94.6%       1.73         -   n
13C-1,2,3,4,7,8,9-HpCDF   150417500 0.43 y  36:02 0.76        2122.83             7.45     106.1   n
    1,2,3,4,7,8,9-HpCDF    47489800 1.02 y  36:03 1.30         483.90 96.8%       2.38         -   n
            Total HpCDF   107404819 1.00 y  34:54 1.33         973.82             2.02         -   n
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13C-1,2,3,4,6,7,8-HpCDD  161779300 0.96 y  35:42 0.83        2104.12              5.07    105.2   n
   1,2,3,4,6,7,8-HpCDD    42052300 1.04 y  35:43 1.07         485.09  97%         1.80        -   n
           Total HpCDD    43164489 1.03 y  35:09 1.07         497.92              1.80        -   n

              13C-OCDD   265623000 0.89 y  38:16 0.62        4606.72              4.74    115.2   n
                  OCDF    85350600 0.91 y  38:23 1.37         937.96  93.8%       1.38        -   n
                  OCDD    74923500 0.91 y  38:16 1.20         940.76  94%         1.58        -   n
```

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    Quantitation Summary     TestAmerica West Sacramento                        Page 1 o

 Run text: ST0721F         Sample text: ST0721F :2nd Source 10DXN340
 Run #6  Filename: 21JL10A4D5  S: 9    I: 1      Results: 21JL10A4D51613SS
 Acquired: 21-JUL-10   20:34:02          Processed: 22-JUL-10  10:21:57
 Run: 21JL10A4D5      Analyte: 1613           Cal: 16130721104D5
 Factor 1: 800.000     Factor 2: 20.000      Sample size: 1.000000


                    Name       Resp   RA      RT  RRF            Conc            EDL       Rec   M

        13C-1,2,3,4-TCDD  307629000 0.78 y  20:01    -           92.11              -         -   n

        13C-2,3,7,8-TCDF  413901000 0.78 y  19:24 1.23         2188.90           0.92     109.4   n
            2,3,7,8-TCDF   38830800 0.76 y  19:25 0.99          188.67           0.48         -   n
              Total TCDF   39472107 1.33 n  17:31 0.99          191.78           0.48         -   n

        13C-2,3,7,8-TCDD  294375000 0.78 y  20:13 0.91         2114.60           2.32     105.7   n
            2,3,7,8-TCDD   27522700 0.81 y  20:14 0.98          190.13           0.52         -   n
              Total TCDD   27522700 0.81 y  20:14 0.98          190.13           0.52         -   n

       37Cl-2,3,7,8-TCDD   76164600 1.00 y  20:14 1.20          412.65           0.41     103.2   n

     13C-1,2,3,7,8-PeCDF  302436000 1.54 y  25:17 0.88         2244.44           1.40     112.2   n
         1,2,3,7,8-PeCDF   77546500 1.54 y  25:19 1.08          476.31           1.04         -   n
     13C-2,3,4,7,8-PeCDF  271363000 1.54 y  26:49 0.88         2003.66           1.40     100.2   n
         2,3,4,7,8-PeCDF   68923500 1.55 y  26:51 1.04          488.17           1.32         -   n
          Total F2 PeCDF  149591746 1.40 y  23:44 1.06          985.04           1.17         -   n
          Total F1 PeCDF          *    * n NotFnd 1.06               *           1.08         -   n

     13C-1,2,3,7,8-PeCDD  187042900 1.56 y  27:41 0.66         1840.17           0.85      92.0   n
         1,2,3,7,8-PeCDD   41178400 1.55 y  27:43 0.93          475.77           1.23         -   n
             Total PeCDD   41347624 2.76 n  25:18 0.93          477.73           1.23         -   n

   13C-1,2,3,7,8,9-HxCDD  186073000 1.31 y  33:22    -           78.58              -         -   n

   13C-1,2,3,4,7,8-HxCDF  197163100 0.50 y  32:16 1.04         2028.36           4.92     101.4   n
       1,2,3,4,7,8-HxCDF   62815000 1.17 y  32:17 1.22          523.47           1.49         -   n
   13C-1,2,3,6,7,8-HxCDF  249545100 0.52 y  32:22 1.19         2250.98           4.31     112.5   n
       1,2,3,6,7,8-HxCDF   64154700 1.18 y  32:24 1.12          458.58           1.45         -   n
   13C-2,3,4,6,7,8-HxCDF  228157700 0.51 y  32:54 1.12         2183.74           4.58     109.2   n
       2,3,4,6,7,8-HxCDF   61275400 1.15 y  32:54 1.14          469.19           1.35         -   n
   13C-1,2,3,7,8,9-HxCDF  202978100 0.52 y  33:31 1.02         2139.94           5.04     107.0   n
       1,2,3,7,8,9-HxCDF   54870000 1.19 y  33:32 1.12          482.01           1.58         -   n
             Total HxCDF  243548785 1.21 y  31:03 1.15         1936.68           1.46         -   n

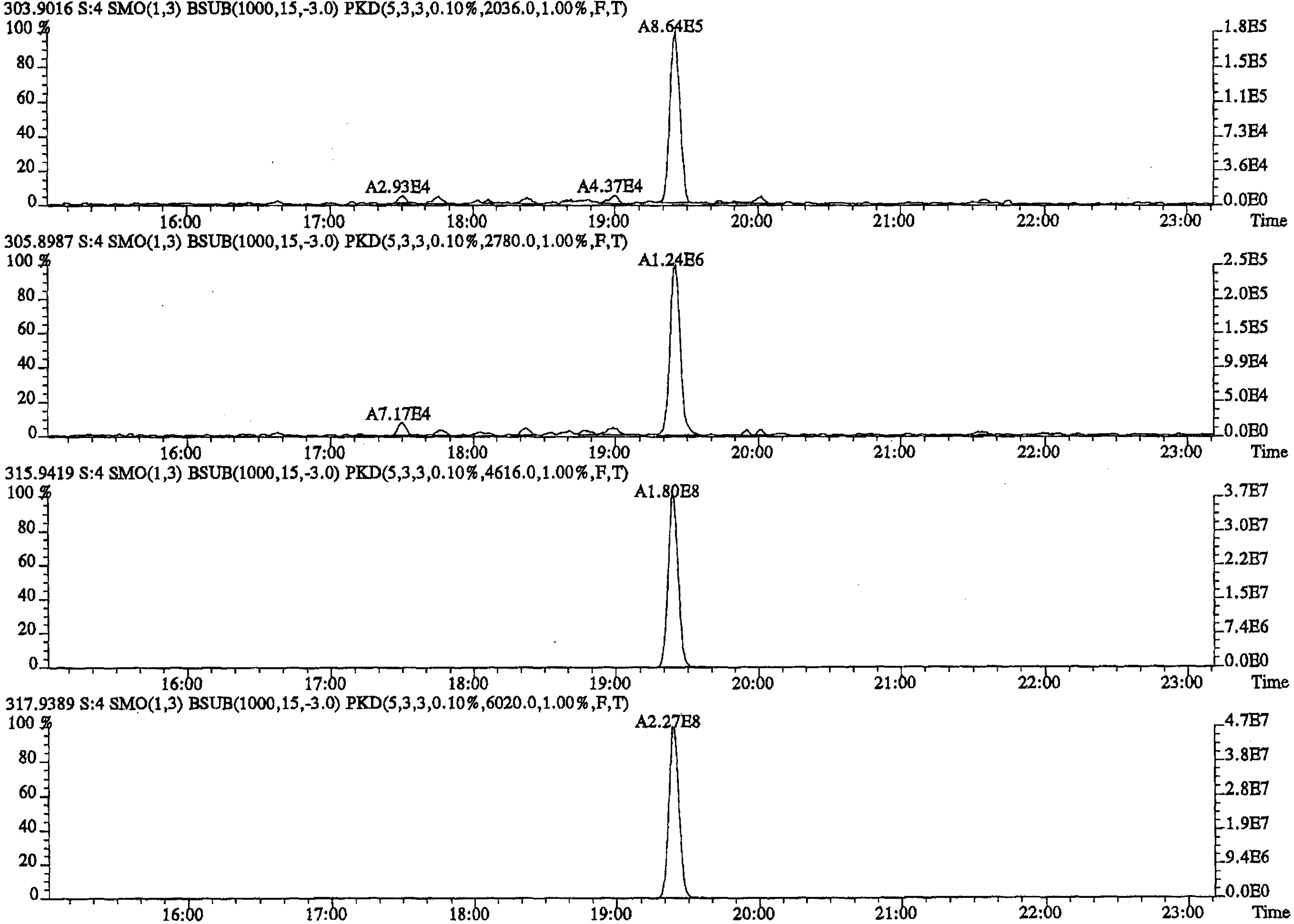
   13C-1,2,3,4,7,8-HxCDD  151949728 1.50 n  33:02 0.88         1864.59           1.23      93.2   n
       1,2,3,4,7,8-HxCDD   39583500 1.24 y  33:03 0.98          531.65           1.26         -   n
   13C-1,2,3,6,7,8-HxCDD  170186500 1.15 y  33:06 0.83         2202.05           1.29     110.1   n
       1,2,3,6,7,8-HxCDD   45328400 1.28 y  33:07 1.16          458.08           0.97         -   n
       1,2,3,7,8,9-HxCDD   45402600 1.24 y  33:22 1.15          490.93           1.03         -   n
             Total HxCDD  130450140 4.93 n  32:18 1.09         1482.19           1.08         -   n

 13C-1,2,3,4,6,7,8-HpCDF  182370400 0.43 y  34:53 0.91         2154.02           6.23     107.7   n
     1,2,3,4,6,7,8-HpCDF   58068900 1.00 y  34:54 1.35          473.20           1.73         -   n
 13C-1,2,3,4,7,8,9-HpCDF  150417500 0.43 y  36:02 0.76         2122.34           7.45     106.1   n
     1,2,3,4,7,8,9-HpCDF   47489800 1.02 y  36:03 1.30          483.90           2.38         -   n
             Total HpCDF  107404819 1.00 y  34:54 1.33          973.82           2.02         -   n
```

```
13C-1,2,3,4,6,7,8-HpCDD  161779300 0.96 y  35:42 0.83        2103.64            5.07    105.2   n
    1,2,3,4,6,7,8-HpCDD   42052300 1.04 y  35:43 1.07         485.09            1.80        -   n
            Total HpCDD   43164489 1.03 y  35:09 1.07         497.92            1.80        -   n

               13C-OCDD  265623000 0.89 y  38:16 0.62        4605.66            4.74    115.1   n
                   OCDF   85350600 0.91 y  38:23 1.37         937.96            1.38        -   n
                   OCDD   74923500 0.91 y  38:16 1.20         940.76            1.58        -   n
```

File:21JL10A4D5 #1-541 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES



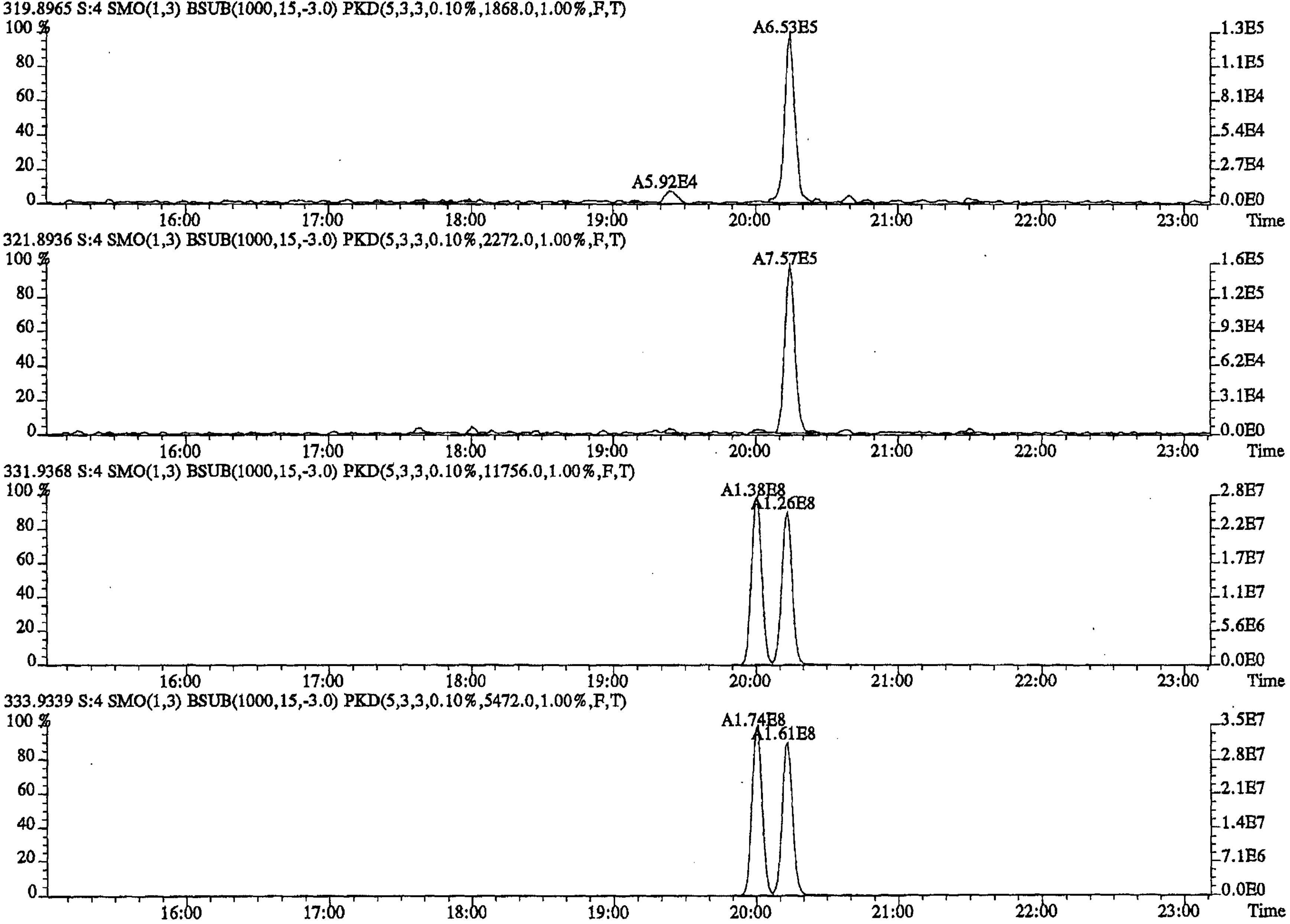
303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2036.0,1.00%,F,T)

305.8987 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2780.0,1.00%,F,T)

315.9419 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4616.0,1.00%,F,T)

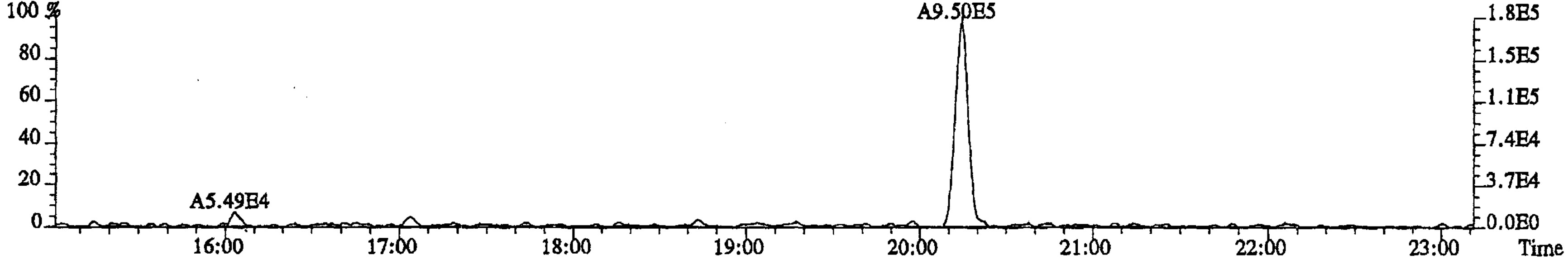
317.9389 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6020.0,1.00%,F,T)

File:21JL10A4D5 #1-541 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

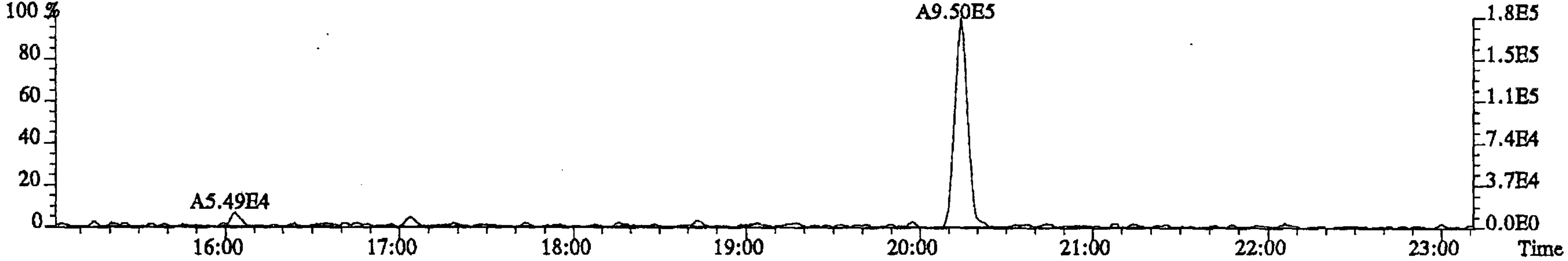


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

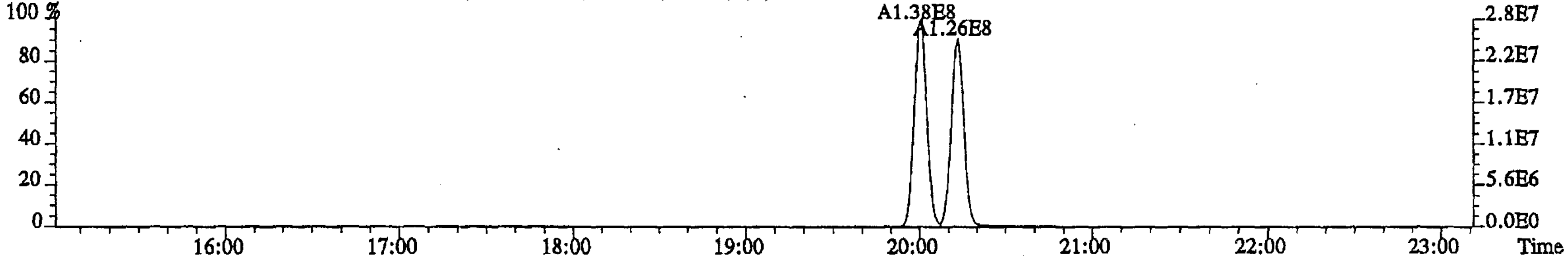
327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2268.0,1.00%,F,T)



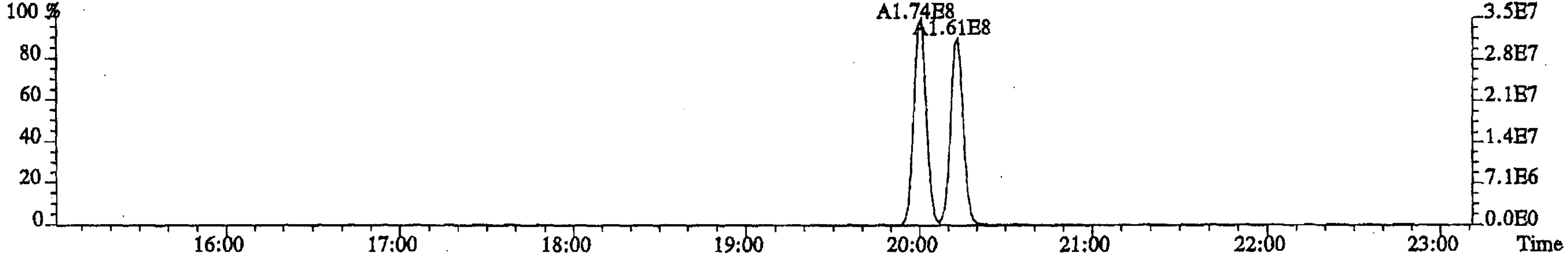
327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2268.0,1.00%,F,T)



331.9368 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11756.0,1.00%,F,T)

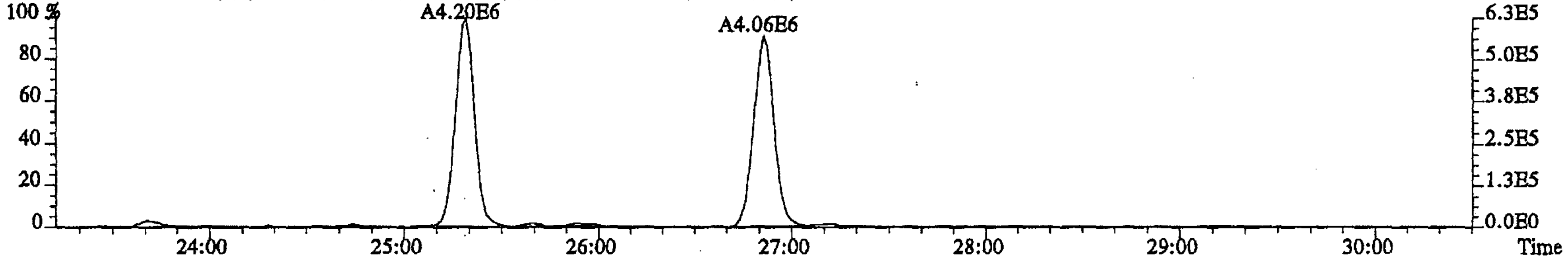


333.9339 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5472.0,1.00%,F,T)

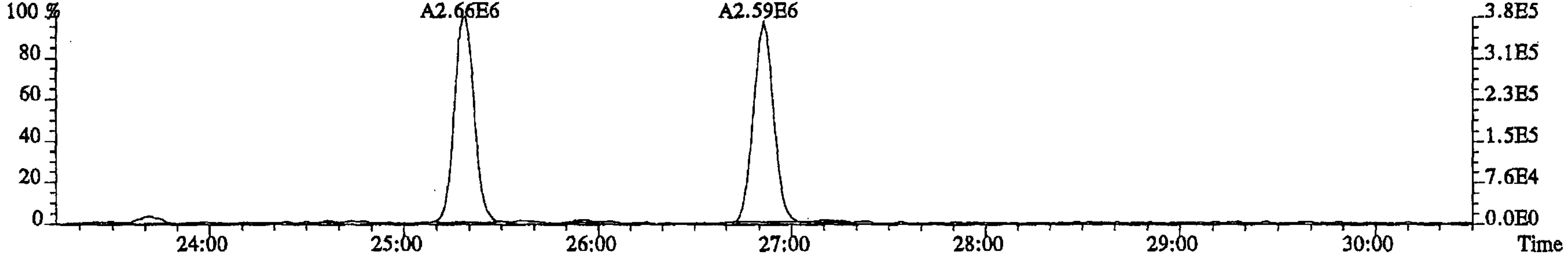


File:21JL10A4D5 #1-469 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

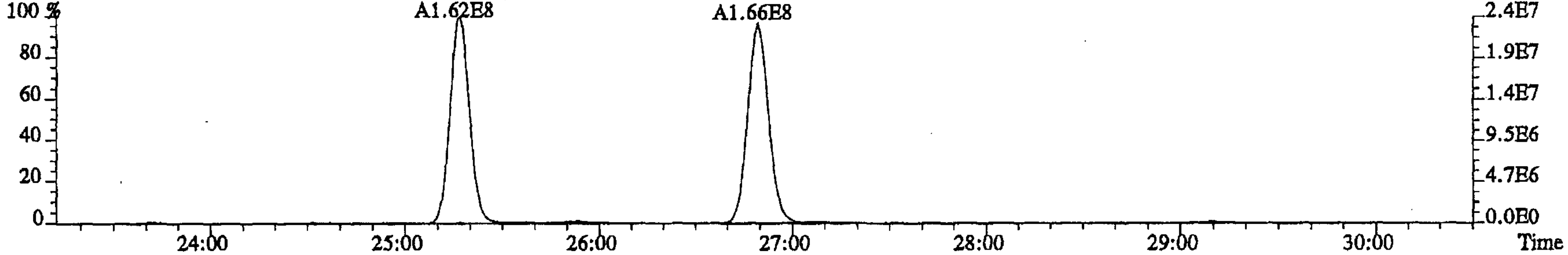
339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2180.0,1.00%,F,T)



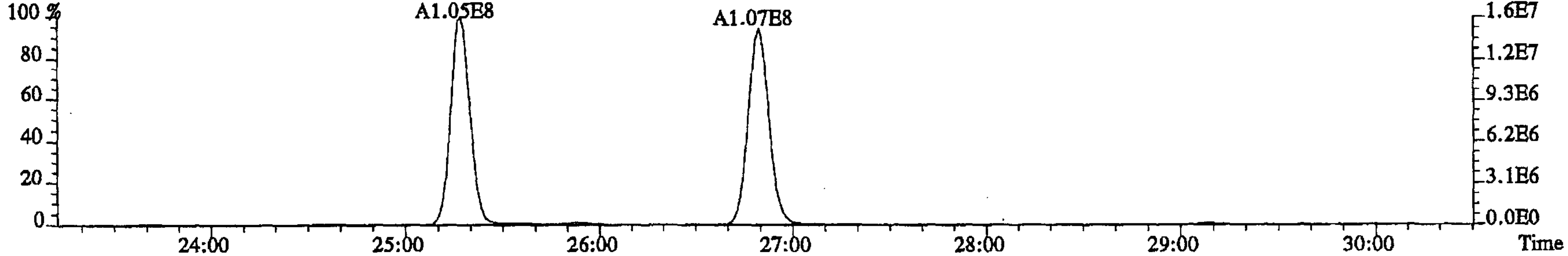
341.8567 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3168.0,1.00%,F,T)



351.9000 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10252.0,1.00%,F,T)



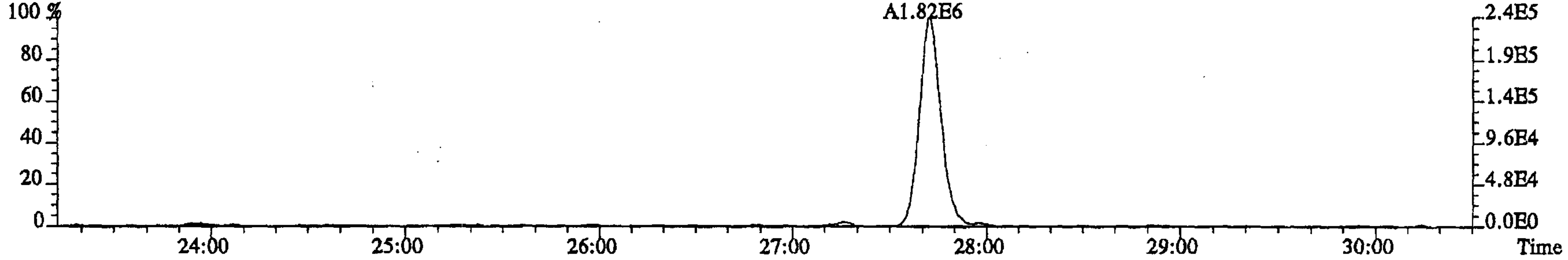
353.8970 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8624.0,1.00%,F,T)



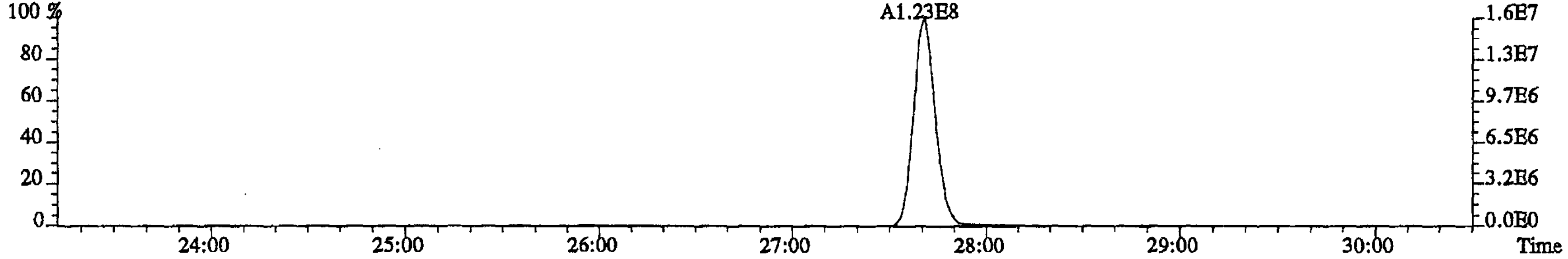
File:21JL10A4D5 #1-469 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

355.8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2312.0,1.00%,F,T)

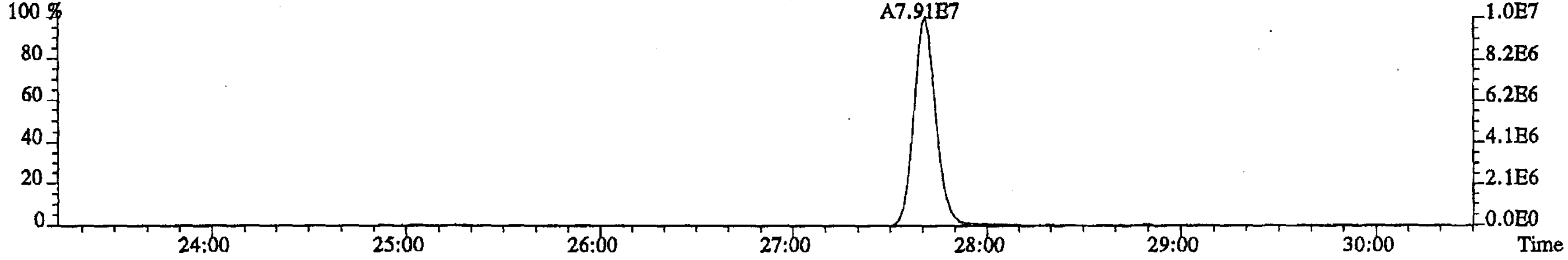
357.8516 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,828.0,1.00%,F,T)



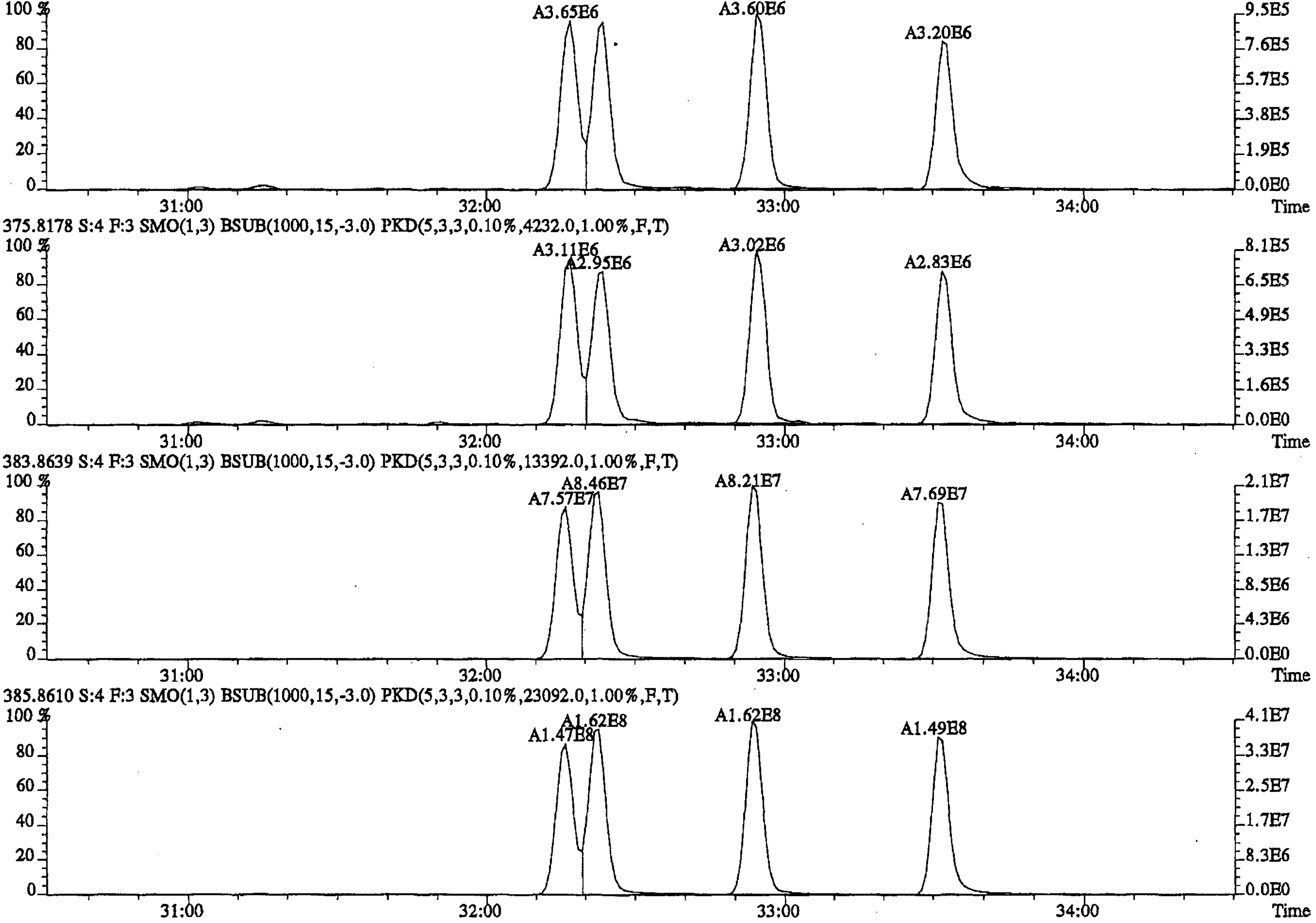
367.8949 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4008.0,1.00%,F,T)



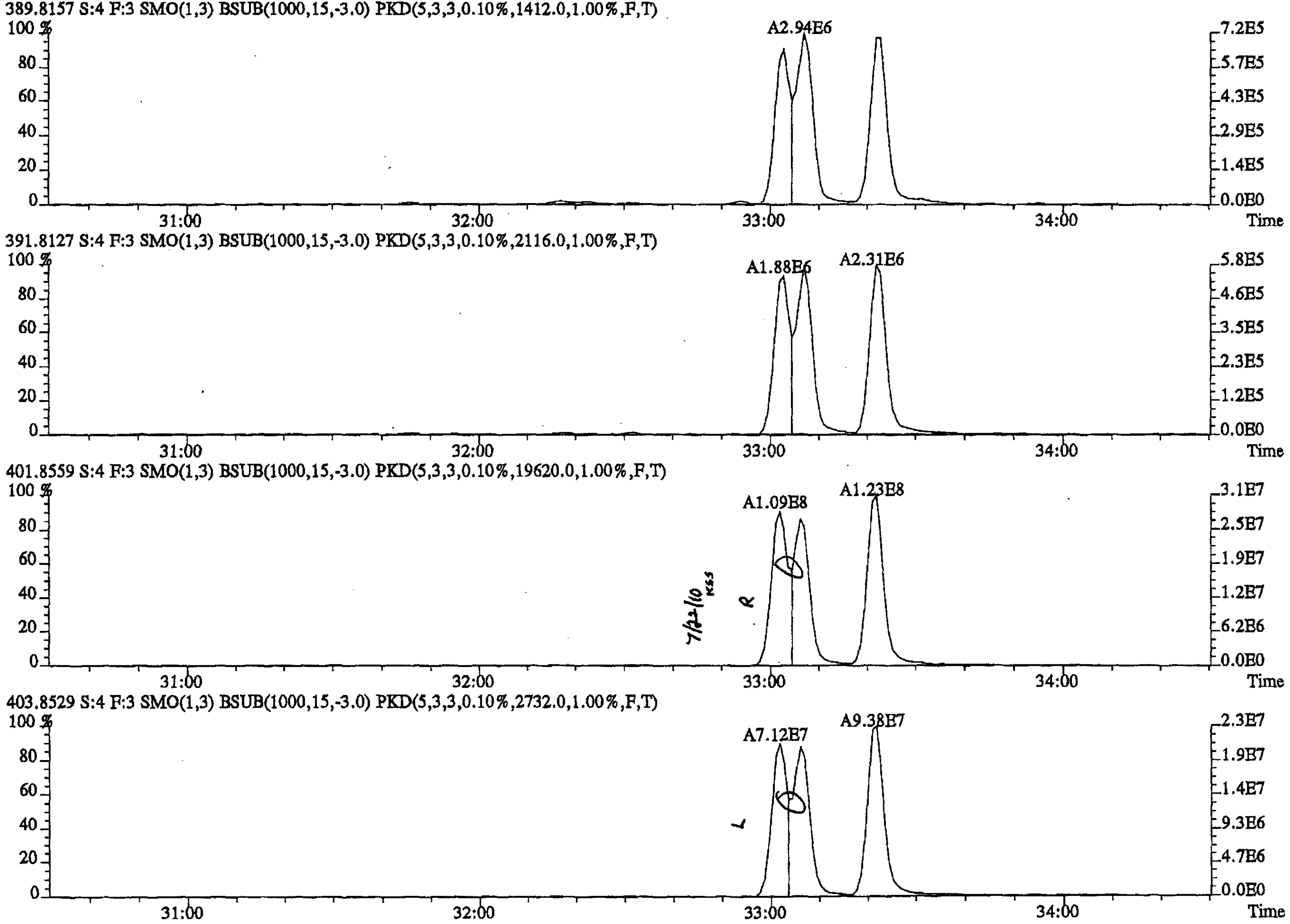
369.8919 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3596.0,1.00%,F,T)



File:21JL10A4D5 #1-287 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4472.0,1.00%,F,T)



File:21JL10A4D5 #1-287 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES



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File:21JL10A4D5 #1-287 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A      :CS-1 10DXN342            Exp:DIOXINRES
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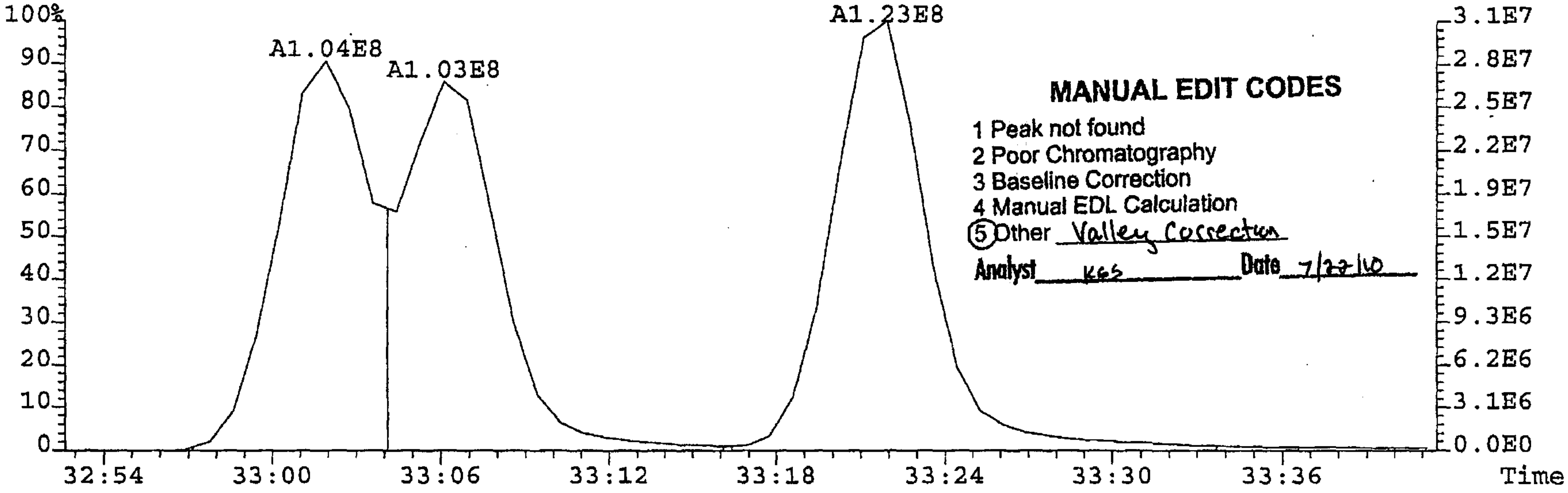
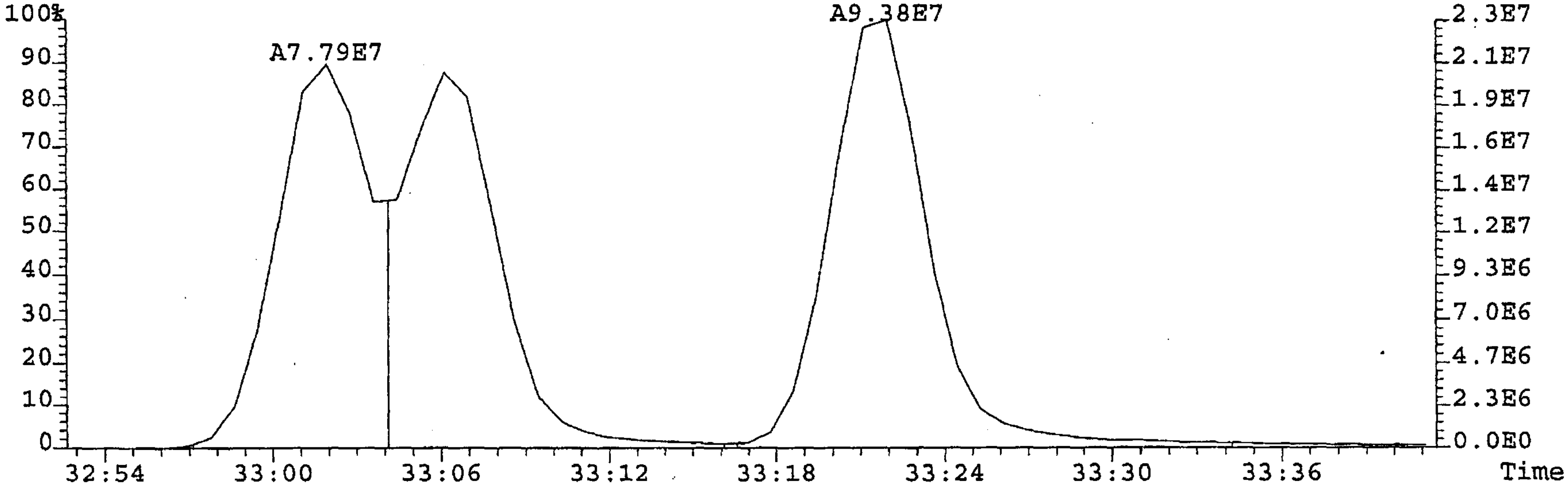
401.8559 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19620.0,1.00%,F,T)

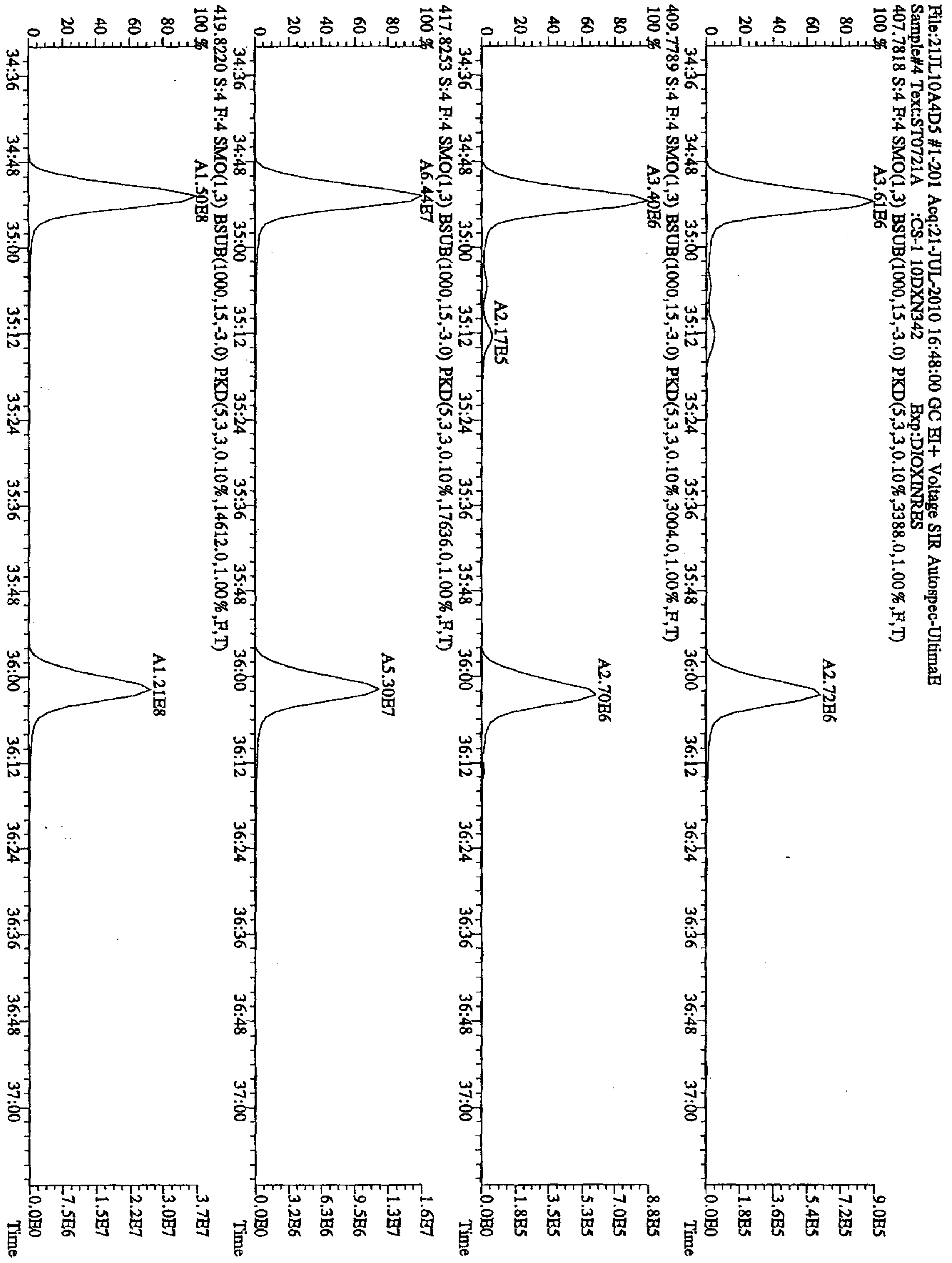


MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
⑤ Other Valley Correction
Analyst KES Date 7/27/10

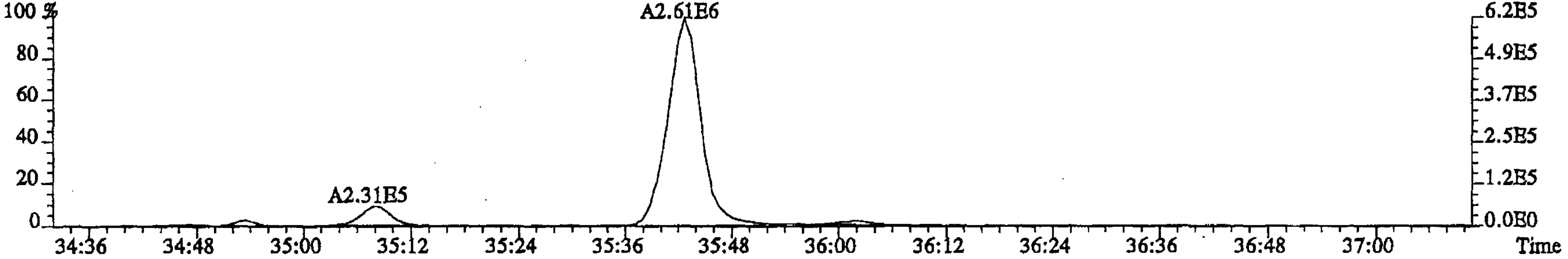
403.8529 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2732.0,1.00%,F,T)



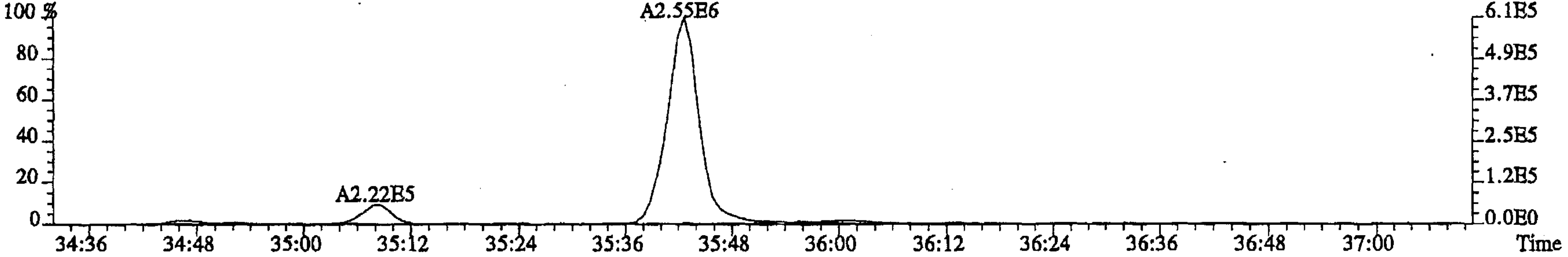

File:21JL10A4D5 #1-201 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES
407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3388.0,1.00%,F,T)
A3.61E6
A2.72E6
9.0E5
7.2E5
5.4E5
3.6E5
1.8E5
0.0E0
409.7789 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3004.0,1.00%,F,T)
A3.40E6
A2.17E5
A2.70E6
8.8E5
7.0E5
5.3E5
3.5E5
1.8E5
0.0E0
417.8253 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17636.0,1.00%,F,T)
A6.44E7
A5.30E7
1.6E7
1.3E7
9.5E6
6.3E6
3.2E6
0.0E0
419.8220 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14612.0,1.00%,F,T)
A1.50E8
A1.21E8
3.7E7
3.0E7
2.2E7
1.5E7
7.5E6
0.0E0
100 %
80
60
40
20
0
34:36
34:48
35:00
35:12
35:24
35:36
35:48
36:00
36:12
36:24
36:36
36:48
37:00
Time

File:21JL10A4D5 #1-201 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

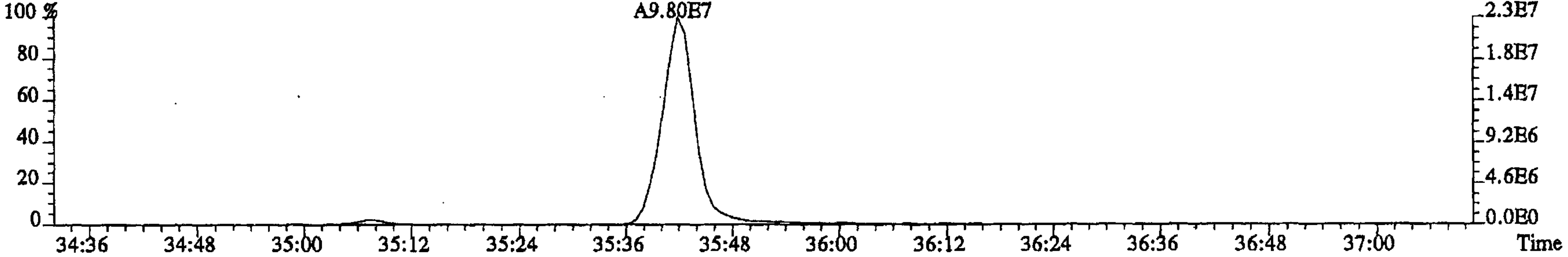
423.7766 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1728.0,1.00%,F,T)



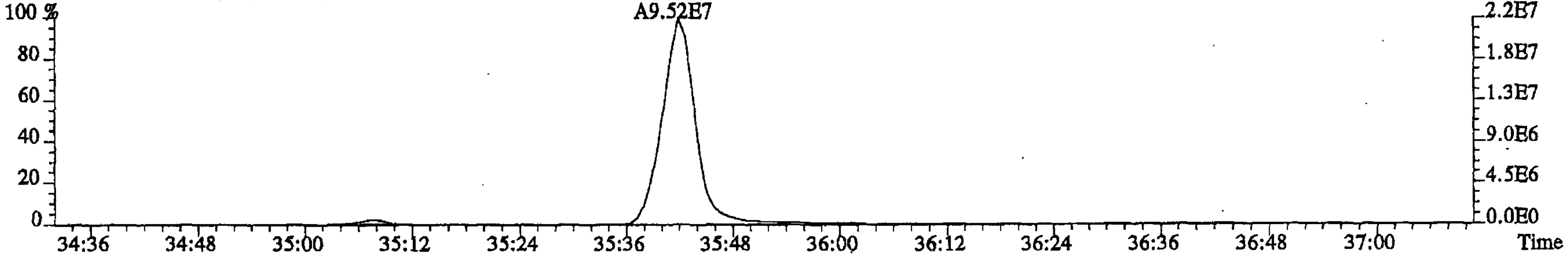
425.7737 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1664.0,1.00%,F,T)



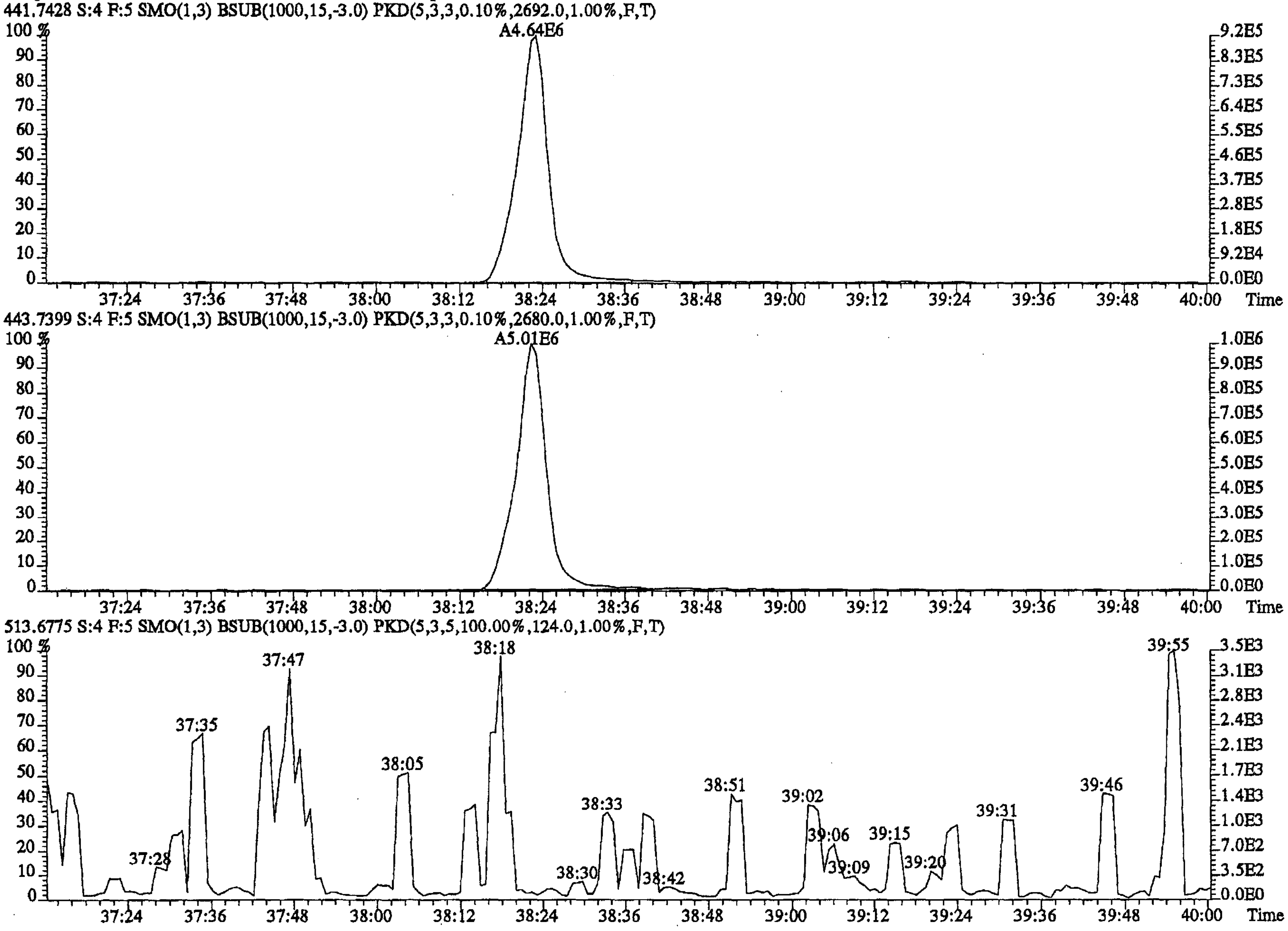
435.8169 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16664.0,1.00%,F,T)



437.8140 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7628.0,1.00%,F,T)

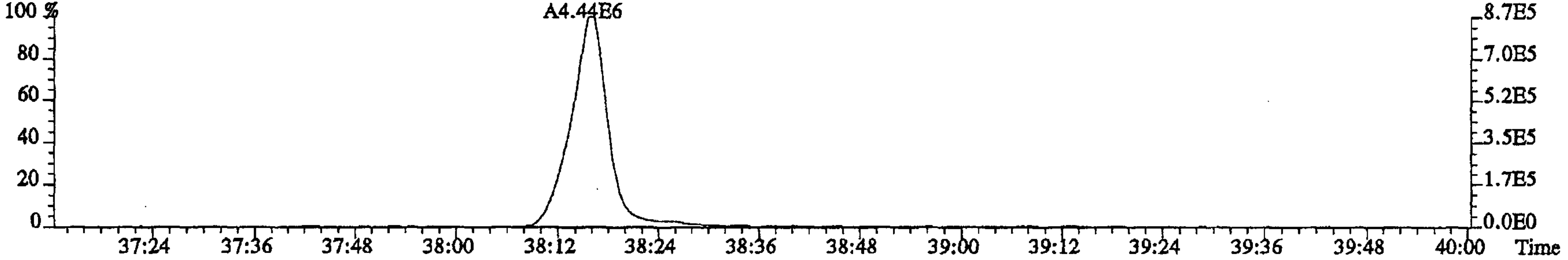


File:21JL10A4D5 #1-227 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

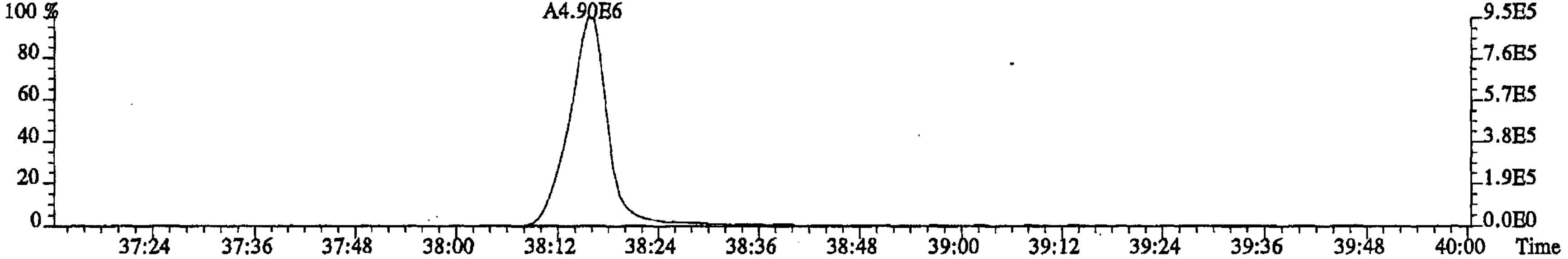


File:21JL10A4D5 #1-227 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

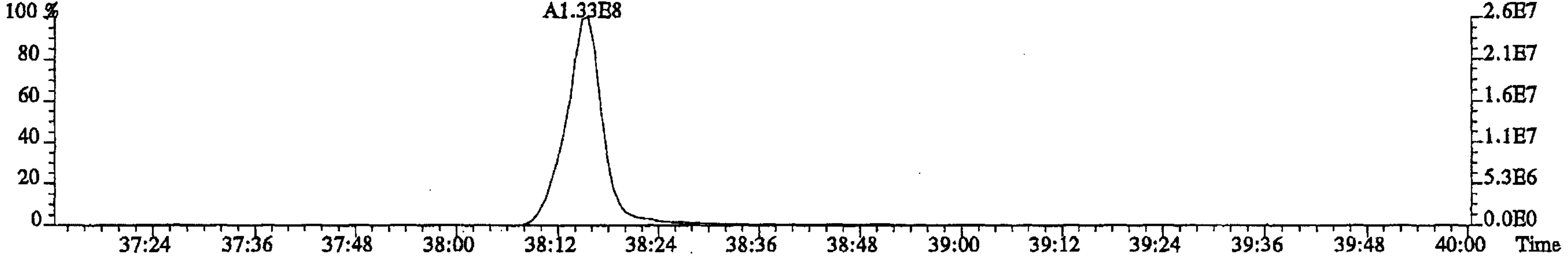
457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1336.0,1.00%,F,T)



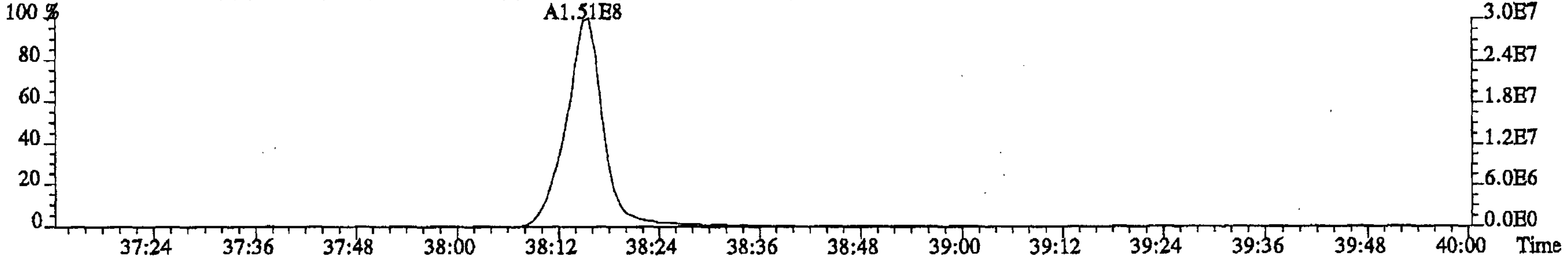
459.7348 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1820.0,1.00%,F,T)



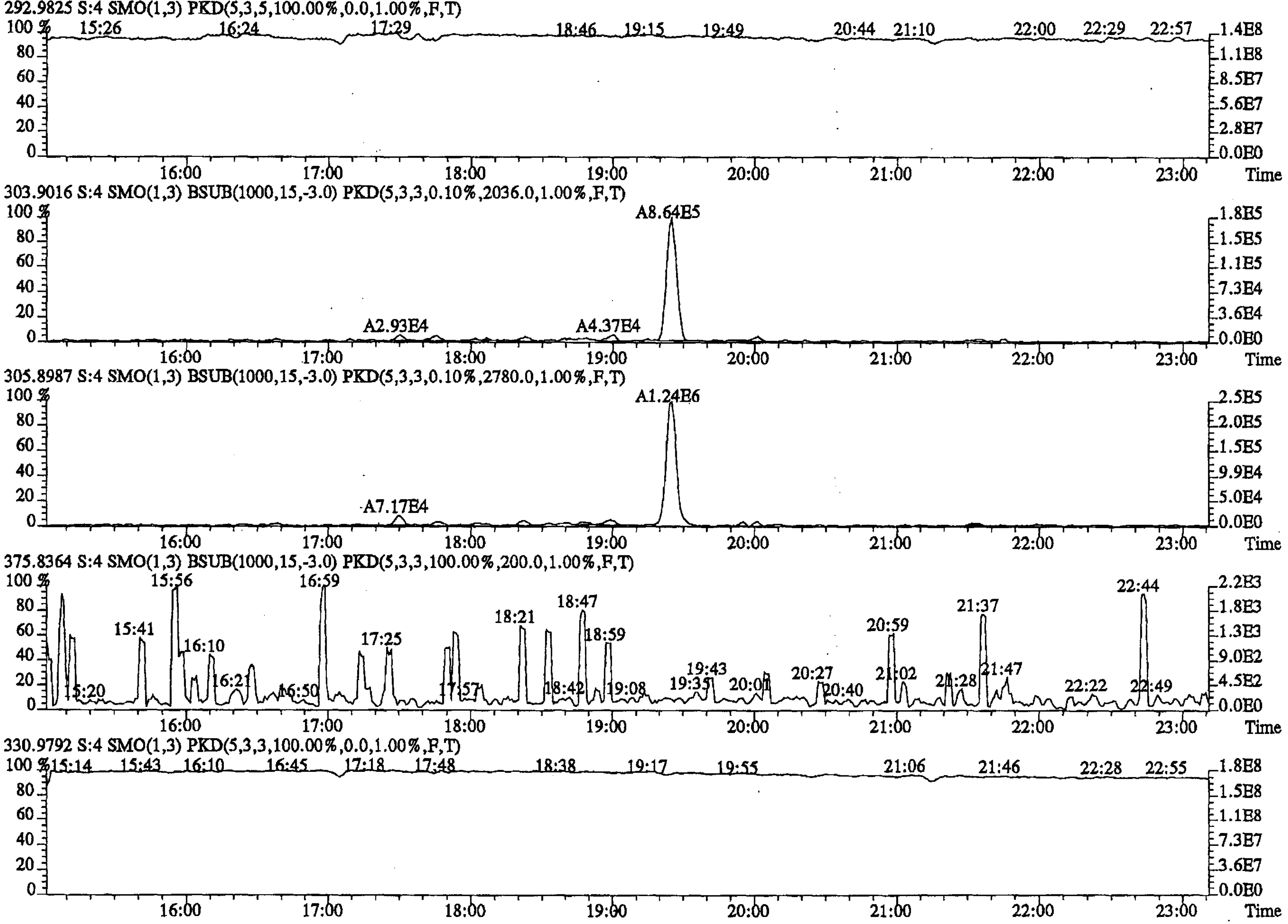
469.7779 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11464.0,1.00%,F,T)



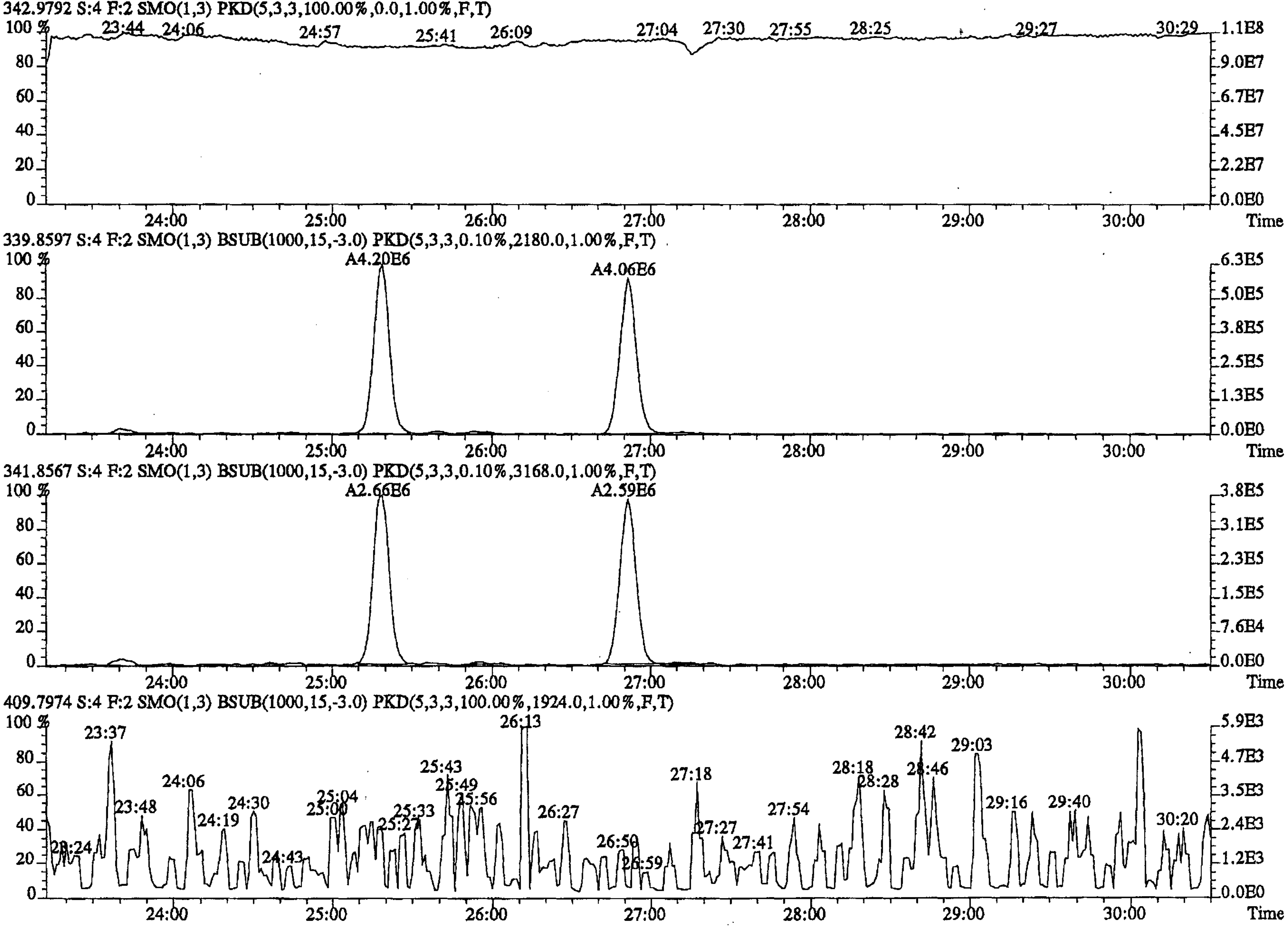
471.7750 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7128.0,1.00%,F,T)



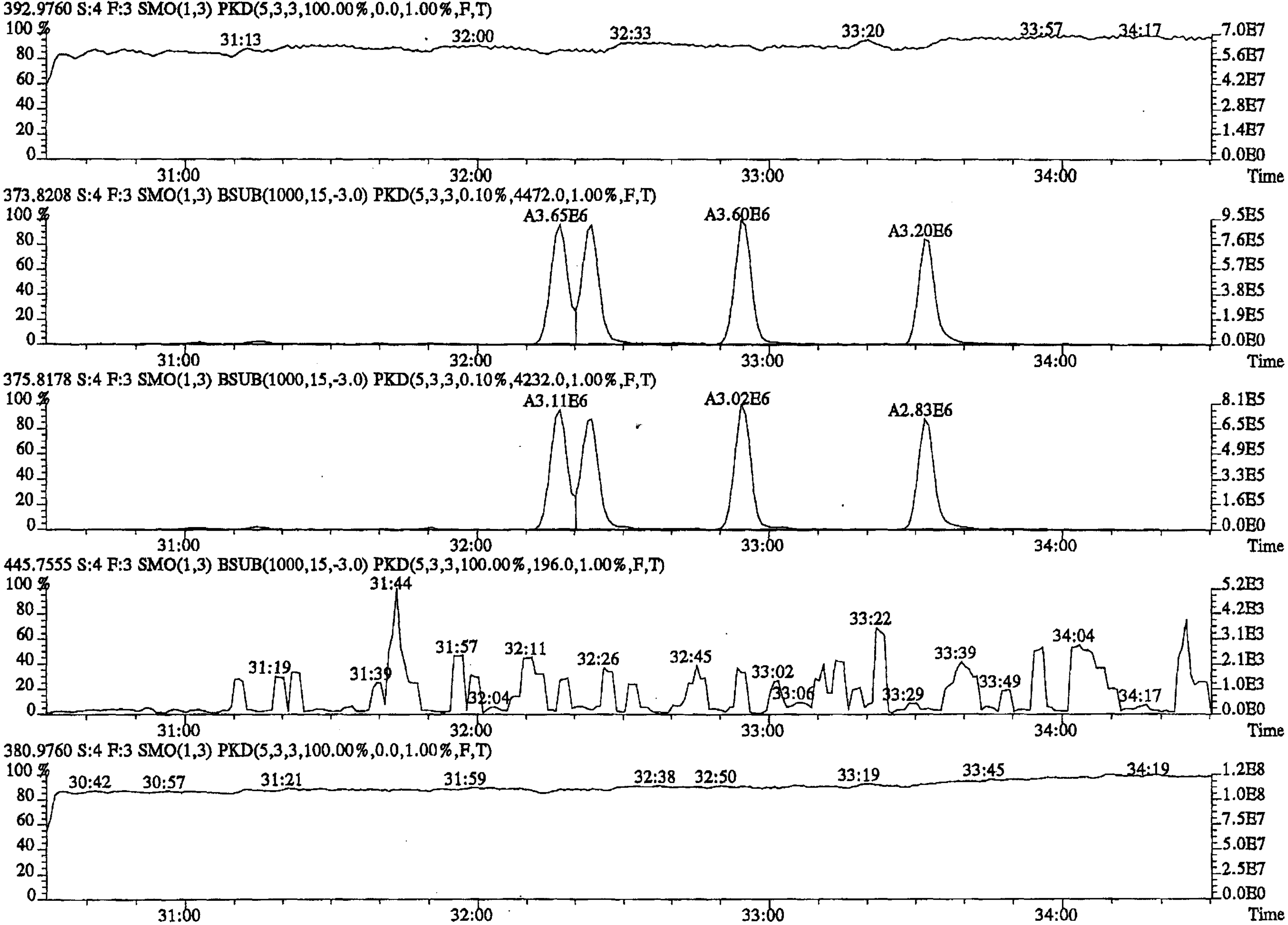
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES



File:21JL10A4D5 #1-469 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

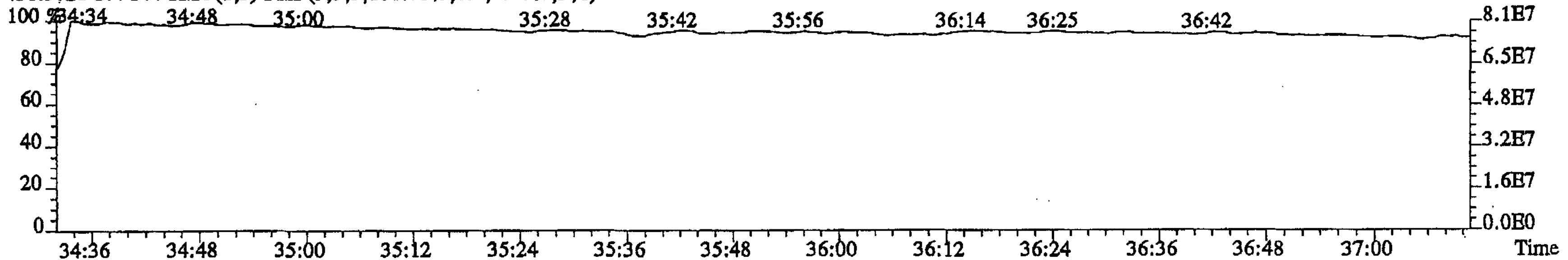


File:21JL10A4D5 #1-287 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

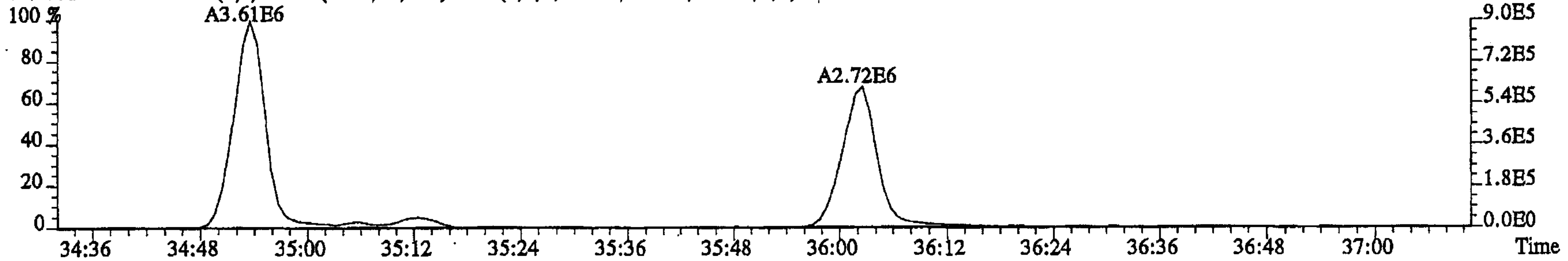


File:21JL10A4D5 #1-201 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES

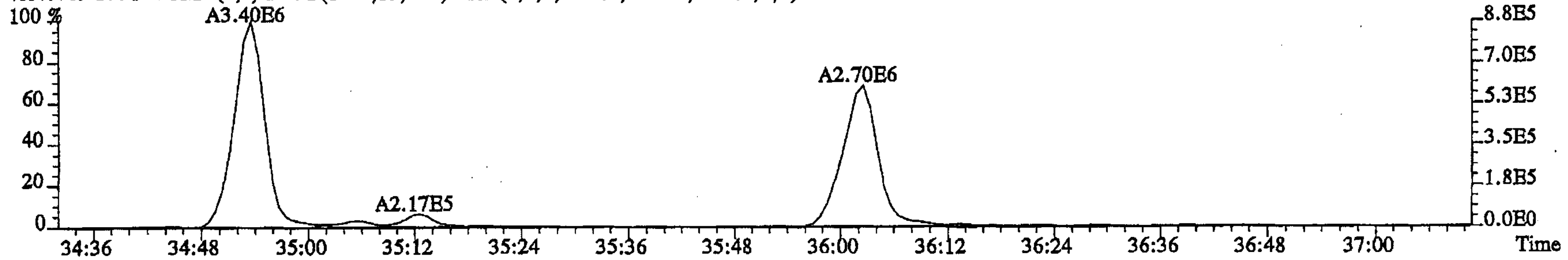
430.9728 S:4 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



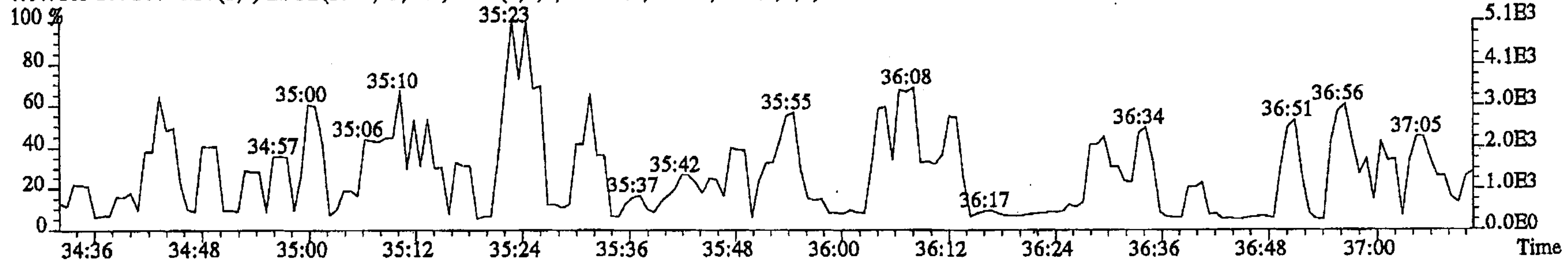
407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3388.0,1.00%,F,T)



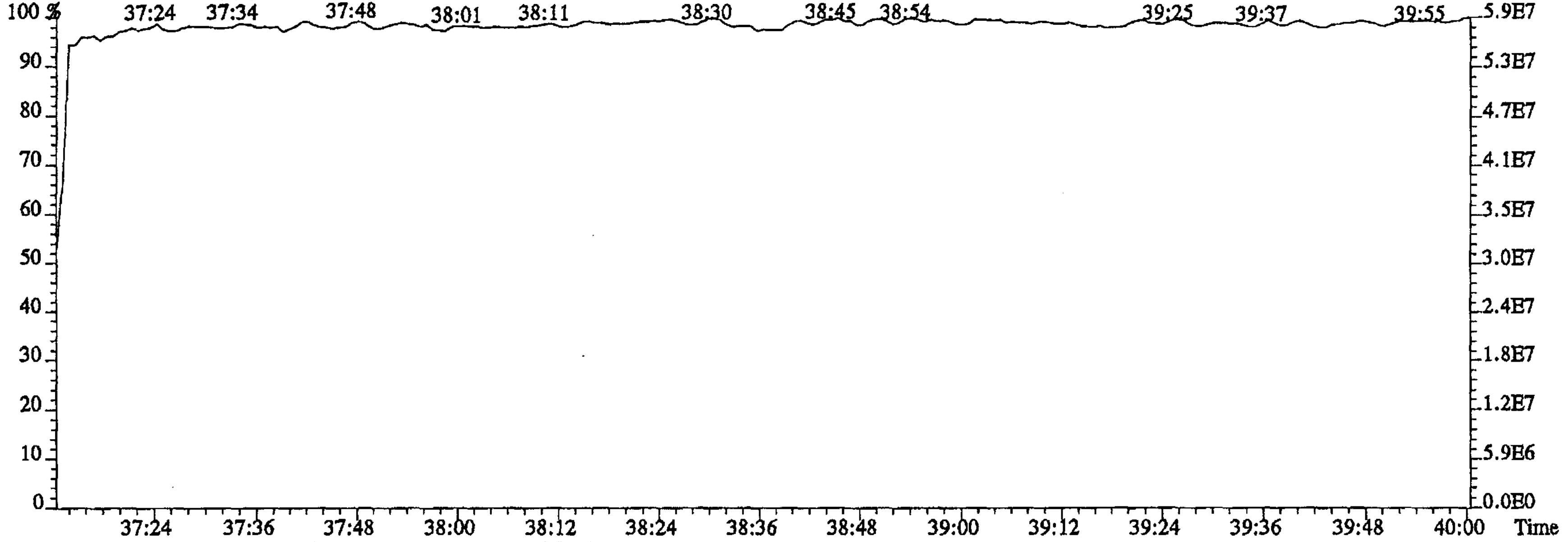
409.7789 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3004.0,1.00%,F,T)



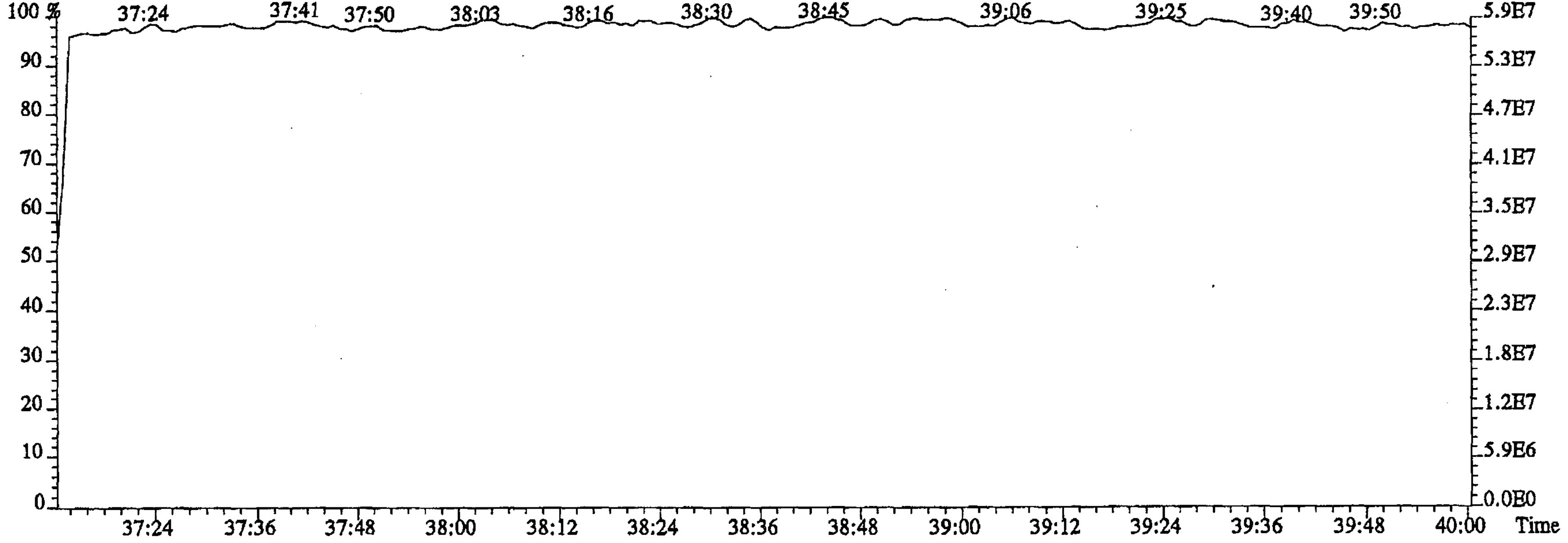
479.7165 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2604.0,1.00%,F,T)



File:21JL10A4D5 #1-227 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES
454.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

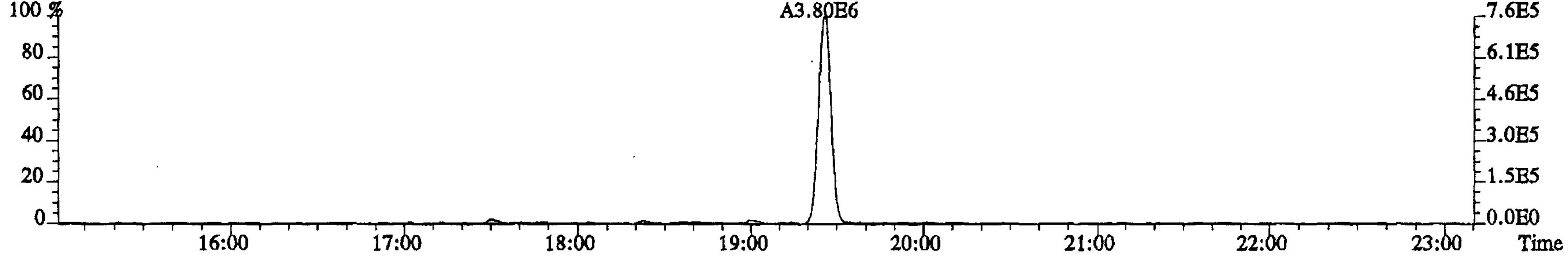


442.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

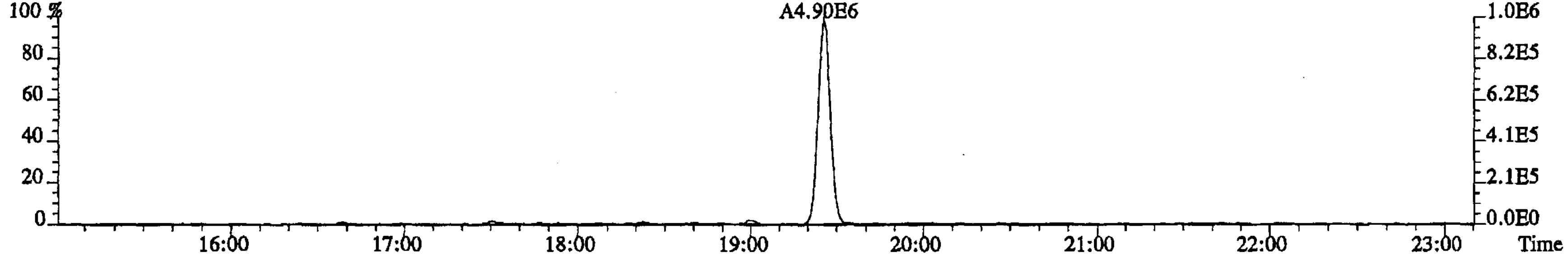


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

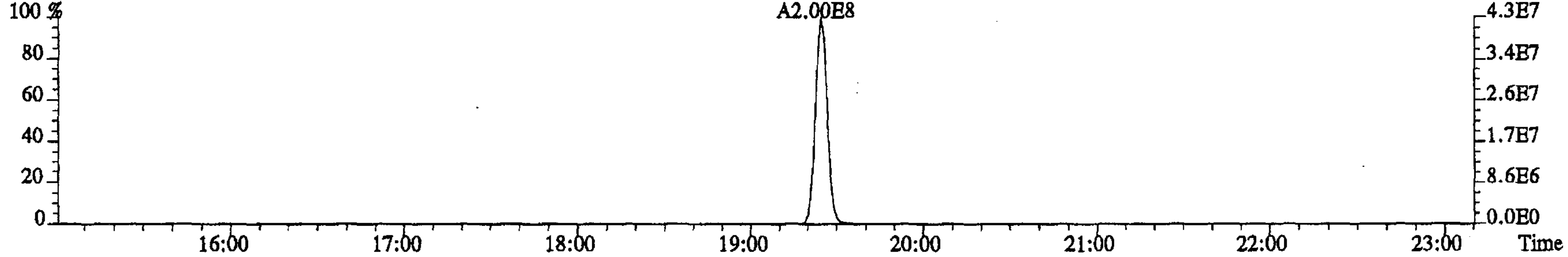
303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1544.0,1.00%,F,T)



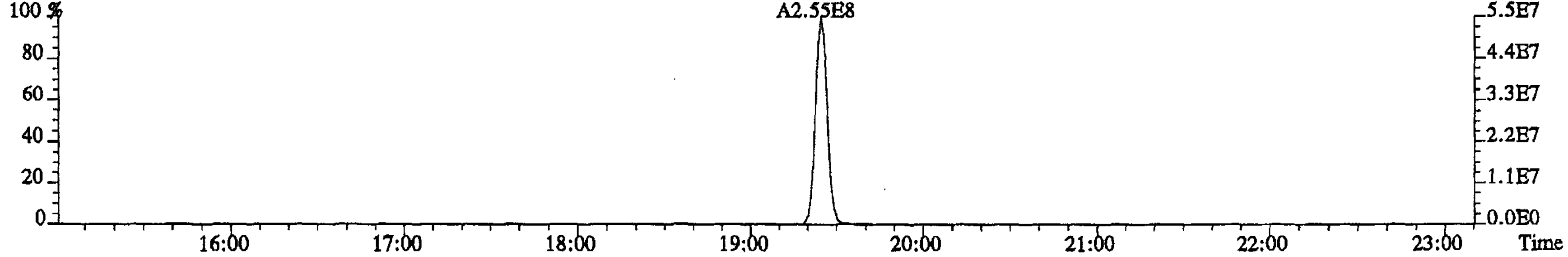
305.8987 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2944.0,1.00%,F,T)



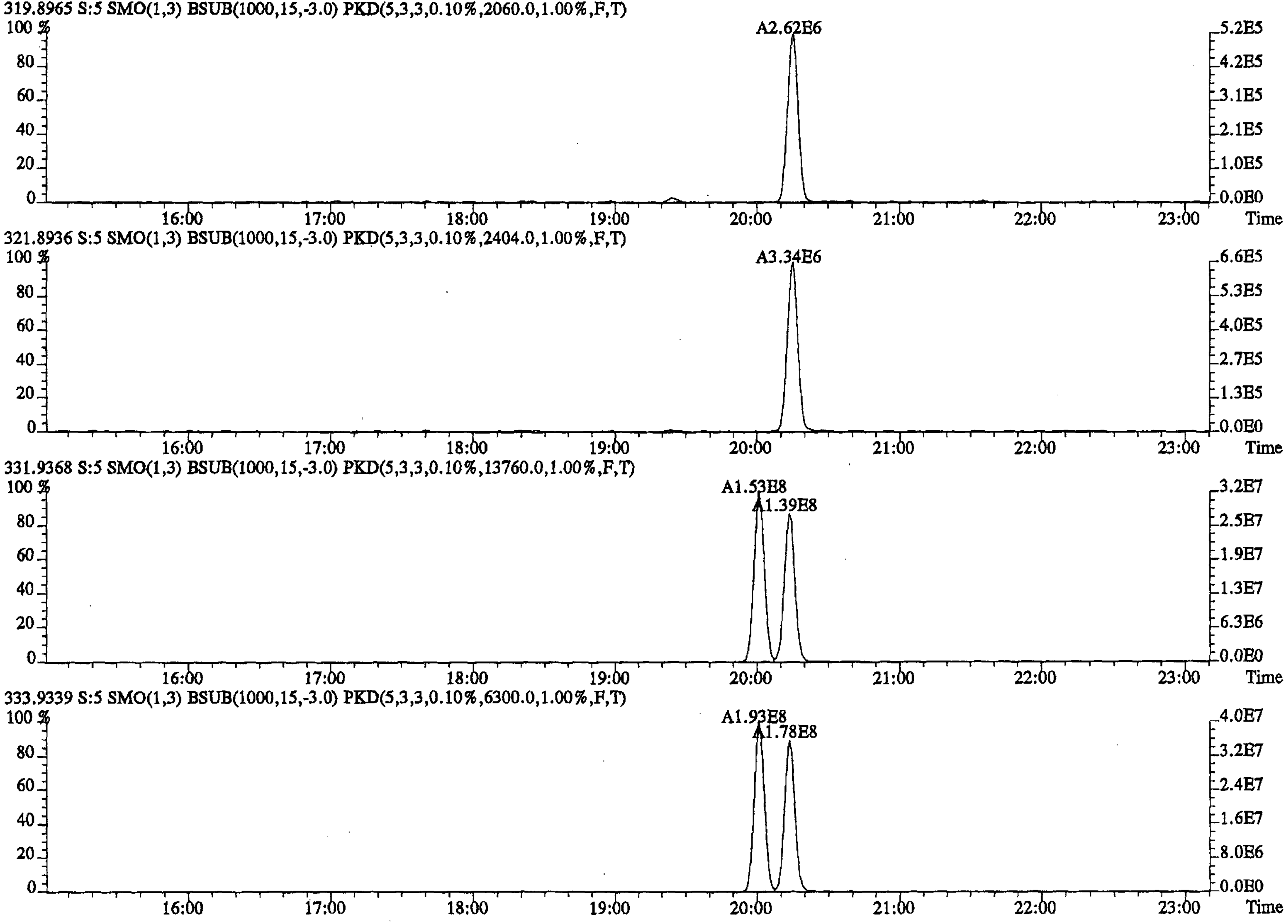
315.9419 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5660.0,1.00%,F,T)



317.9389 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5048.0,1.00%,F,T)

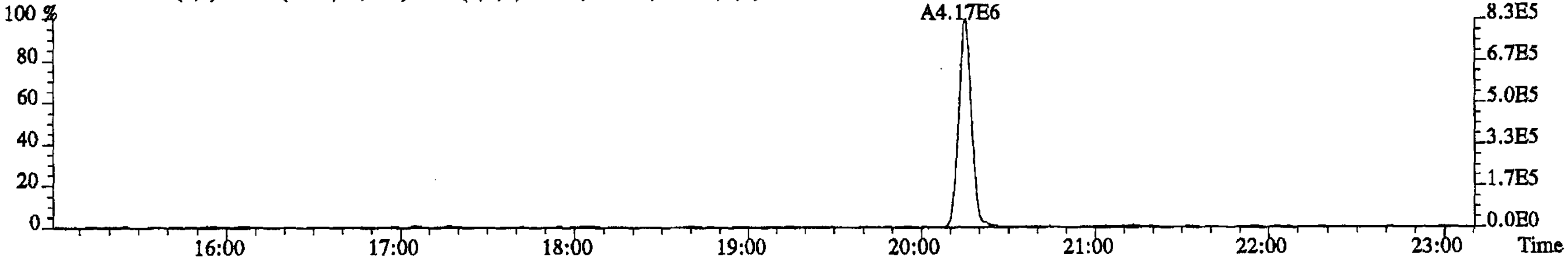


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

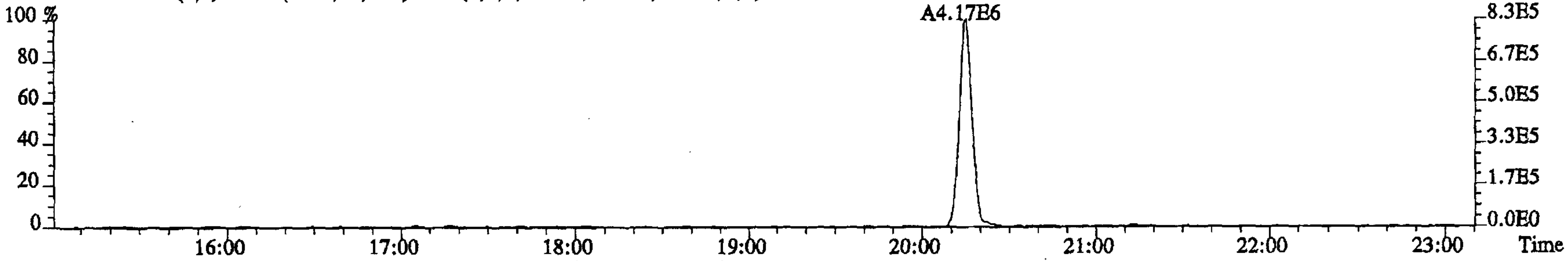


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

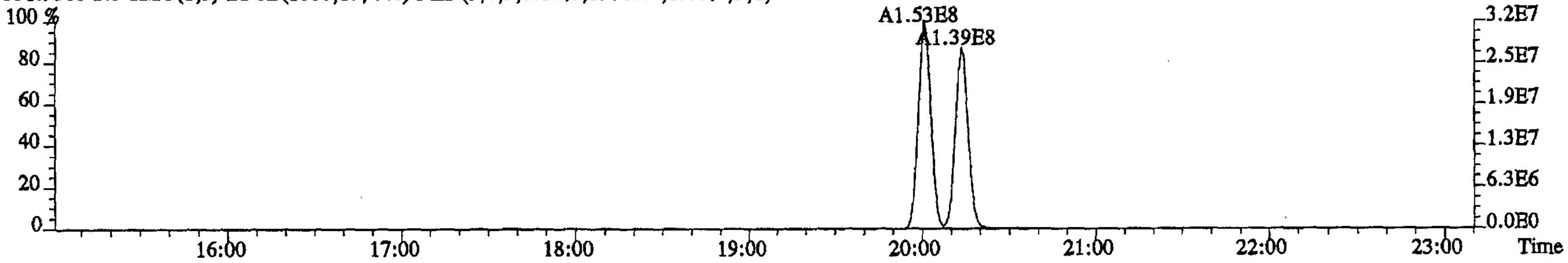
327.8847 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1964.0,1.00%,F,T)



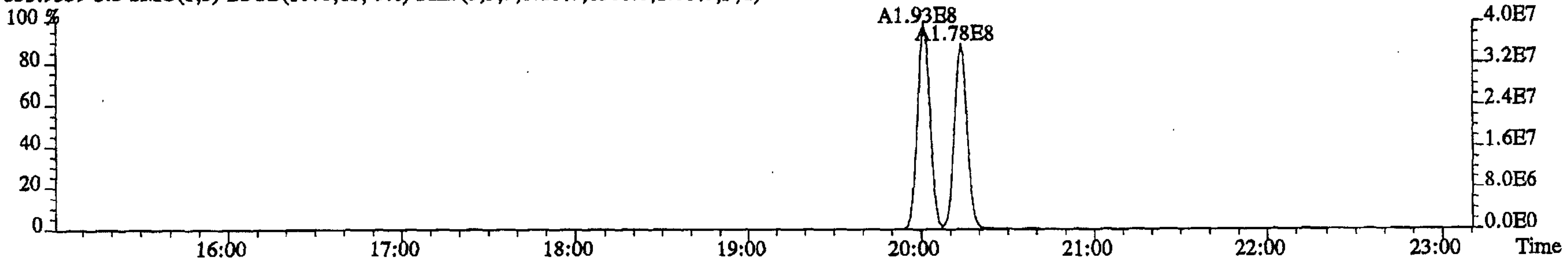
327.8847 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1964.0,1.00%,F,T)

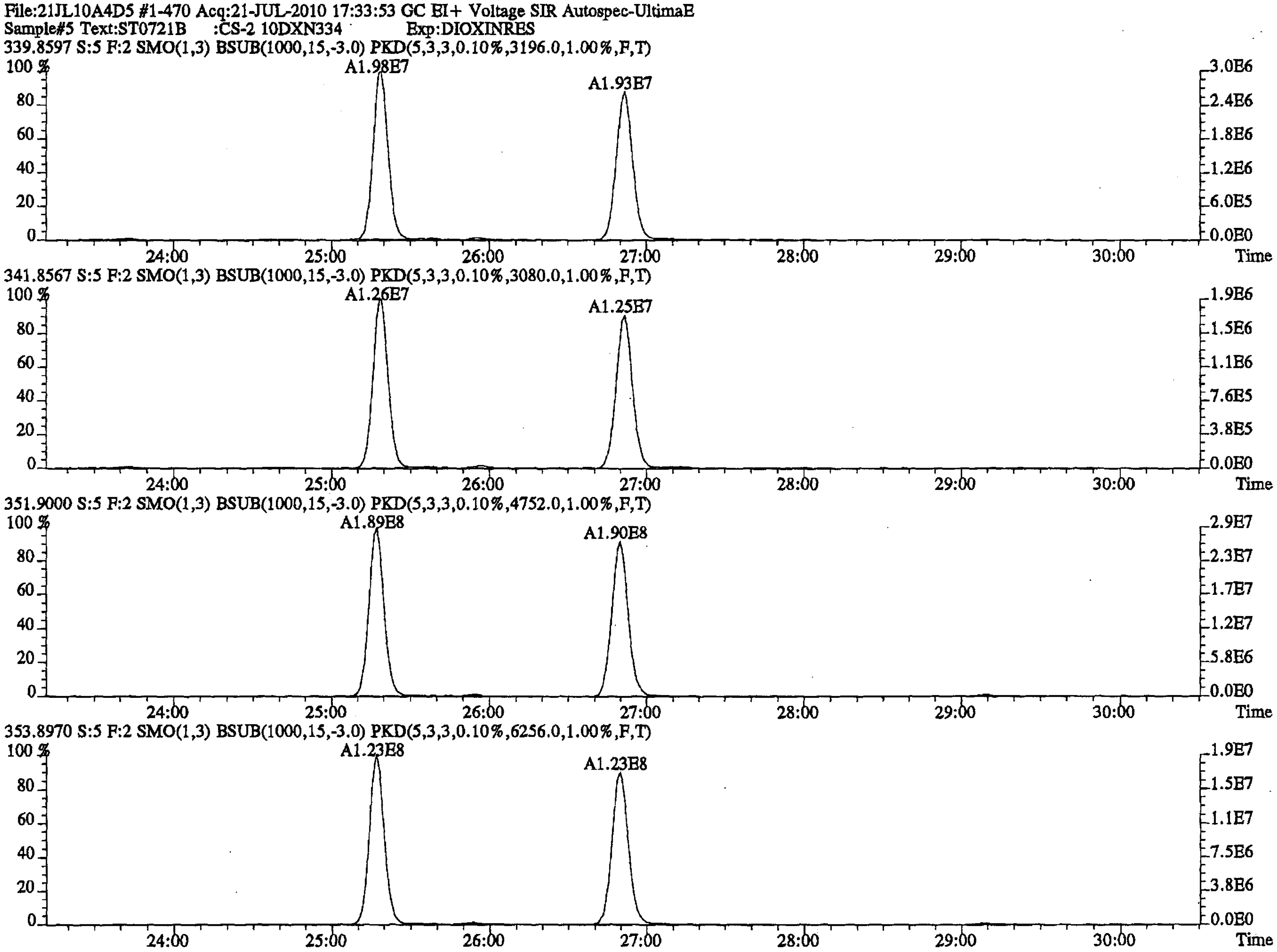


331.9368 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13760.0,1.00%,F,T)



333.9339 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6300.0,1.00%,F,T)





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File:21JL10A4D5 #1-470 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B     :CS-2 10DXN334          Exp:DIOXINRES
339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3196.0,1.00%,F,T)
341.8567 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3080.0,1.00%,F,T)
351.9000 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4752.0,1.00%,F,T)
353.8970 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6256.0,1.00%,F,T)
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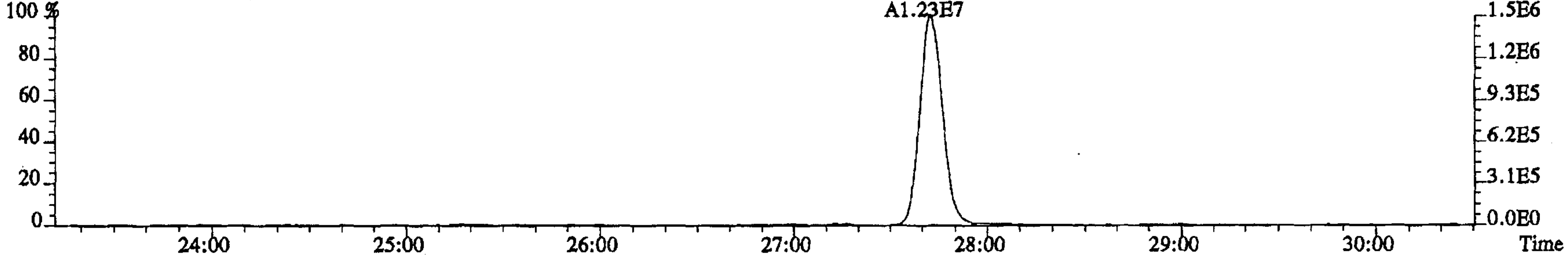
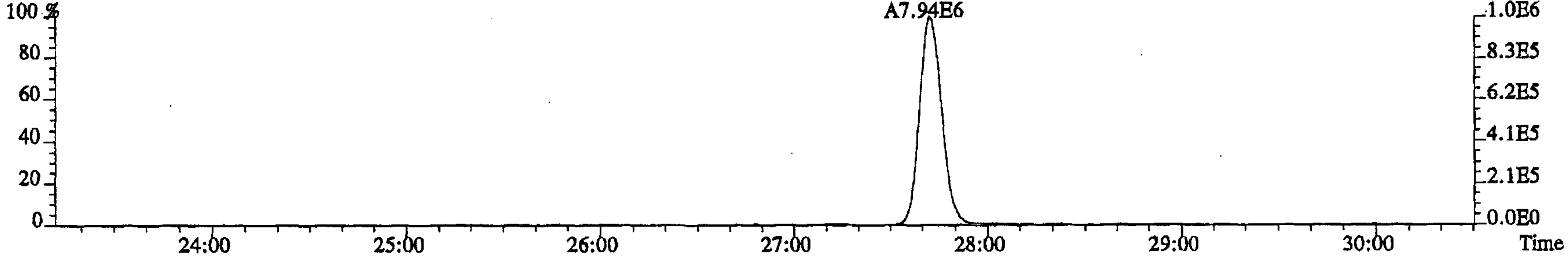
File:21JL10A4D5 #1-470 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

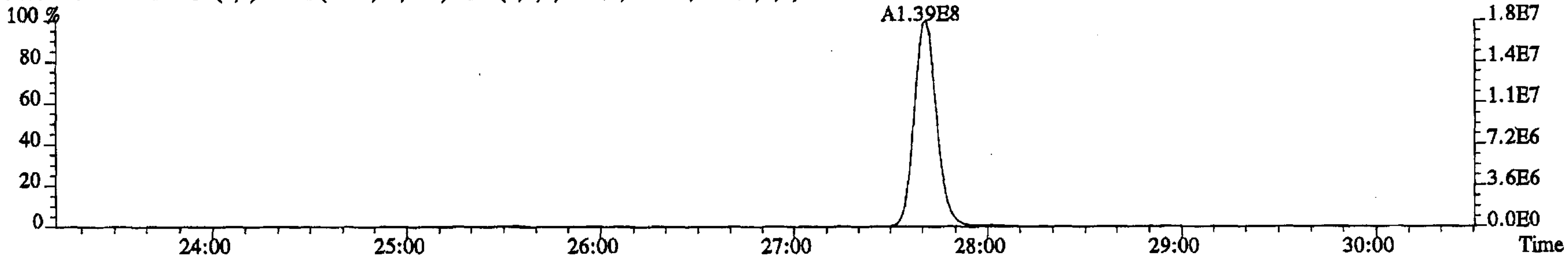
355.8546 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2284.0,1.00%,F,T)



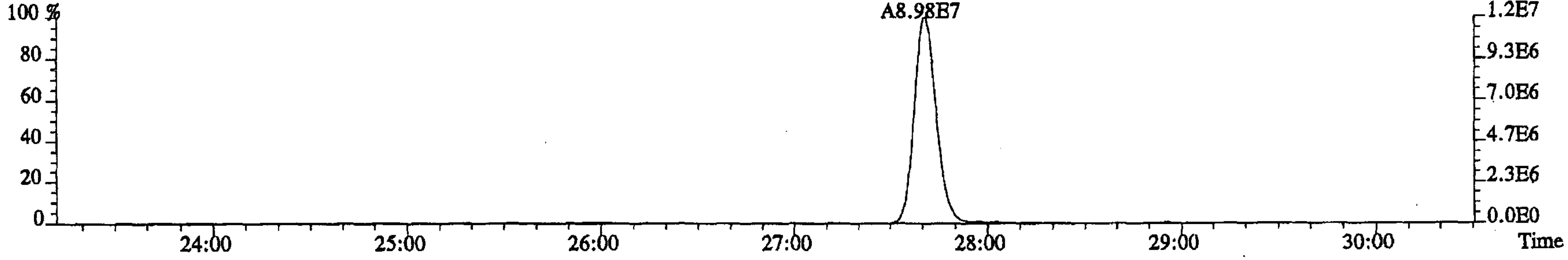
357.8516 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1356.0,1.00%,F,T)



367.8949 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5232.0,1.00%,F,T)

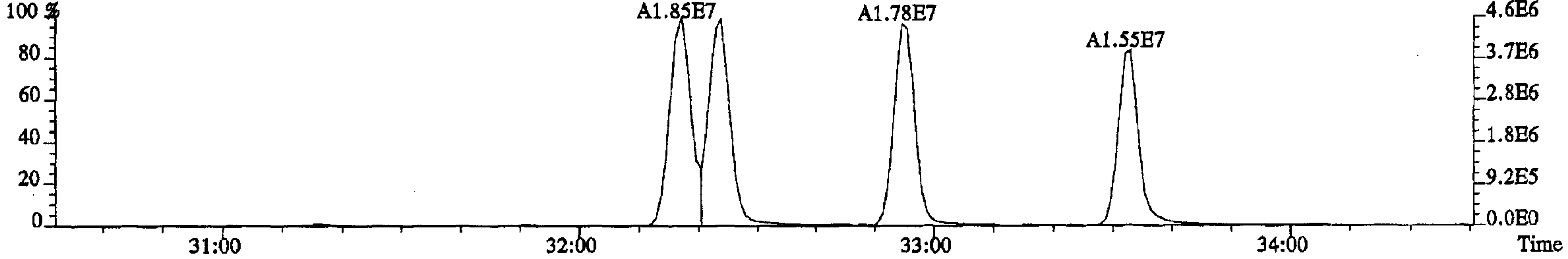


369.8919 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4008.0,1.00%,F,T)

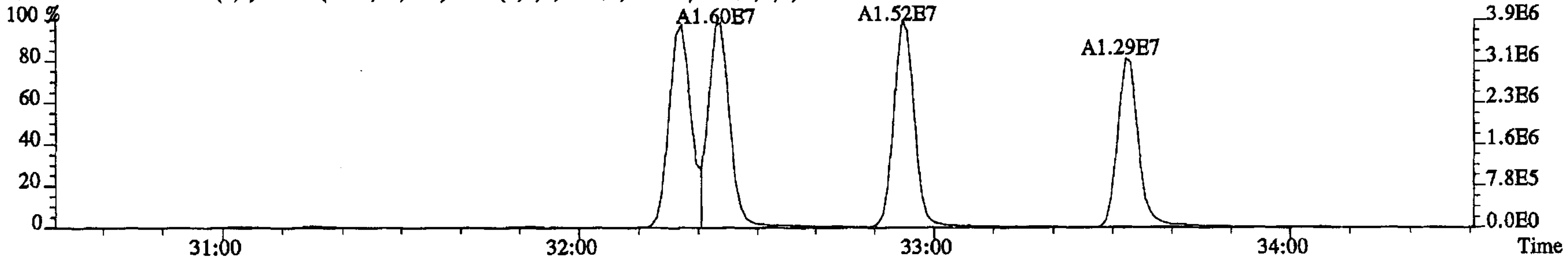


File:21JL10A4D5 #1-287 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

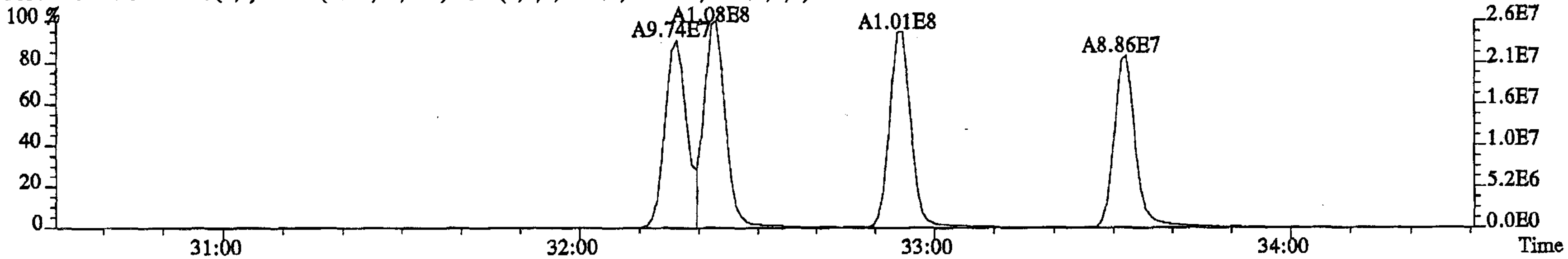
373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3516.0,1.00%,F,T)



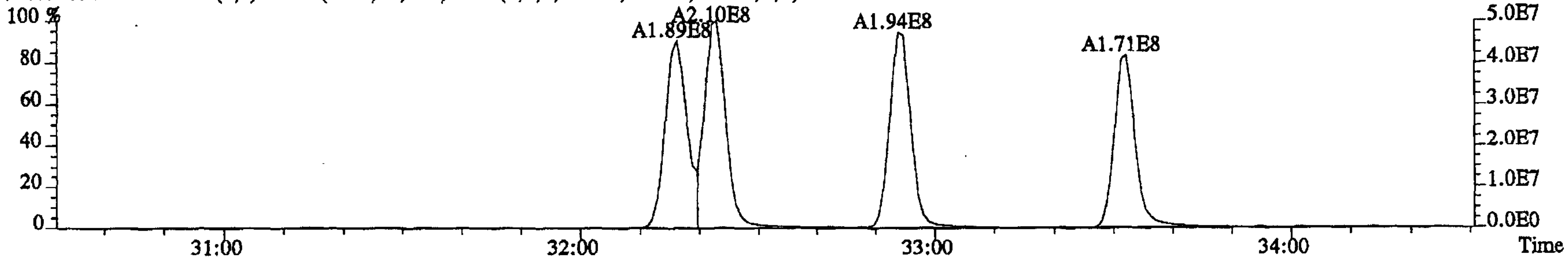
375.8178 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3728.0,1.00%,F,T)



383.8639 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17596.0,1.00%,F,T)

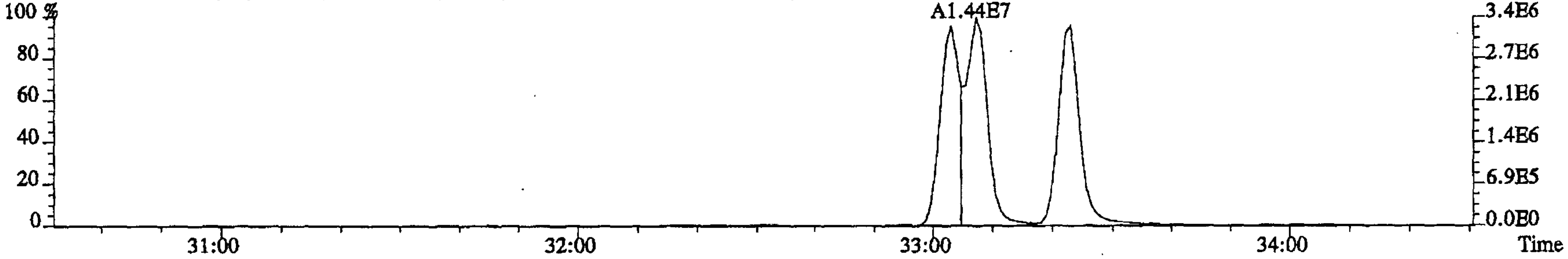


385.8610 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5684.0,1.00%,F,T)

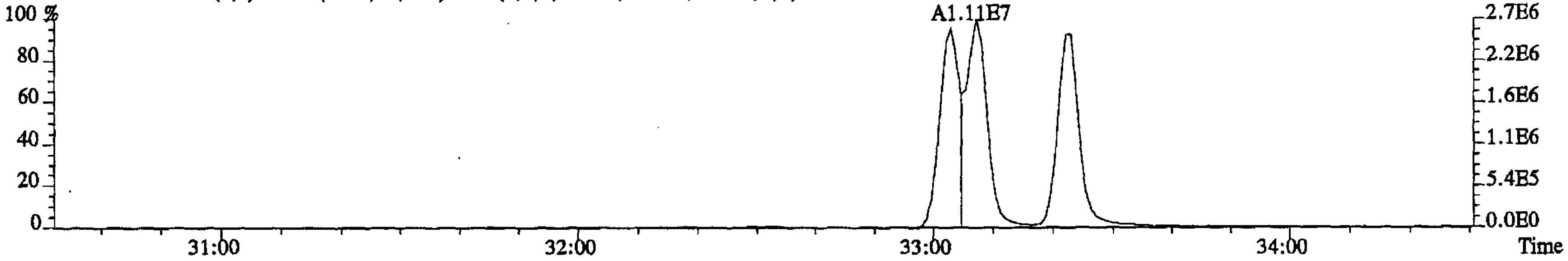


File:21JL10A4D5 #1-287 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

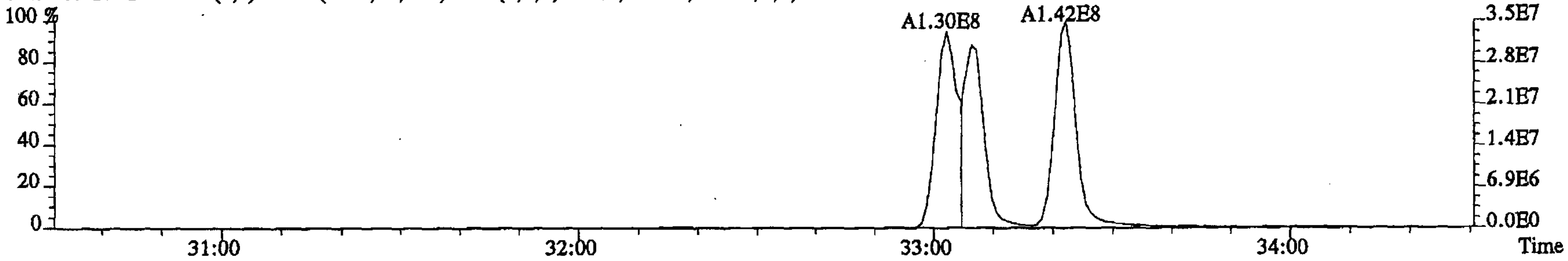
389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1500.0,1.00%,F,T)



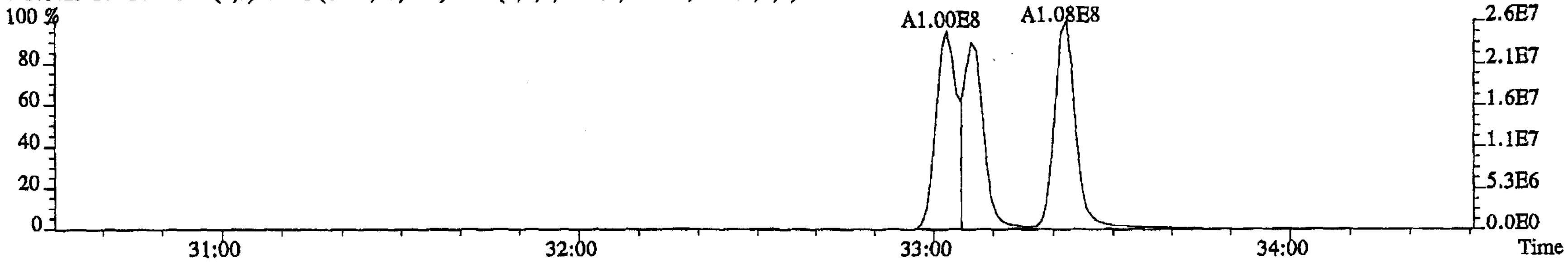
391.8127 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2228.0,1.00%,F,T)



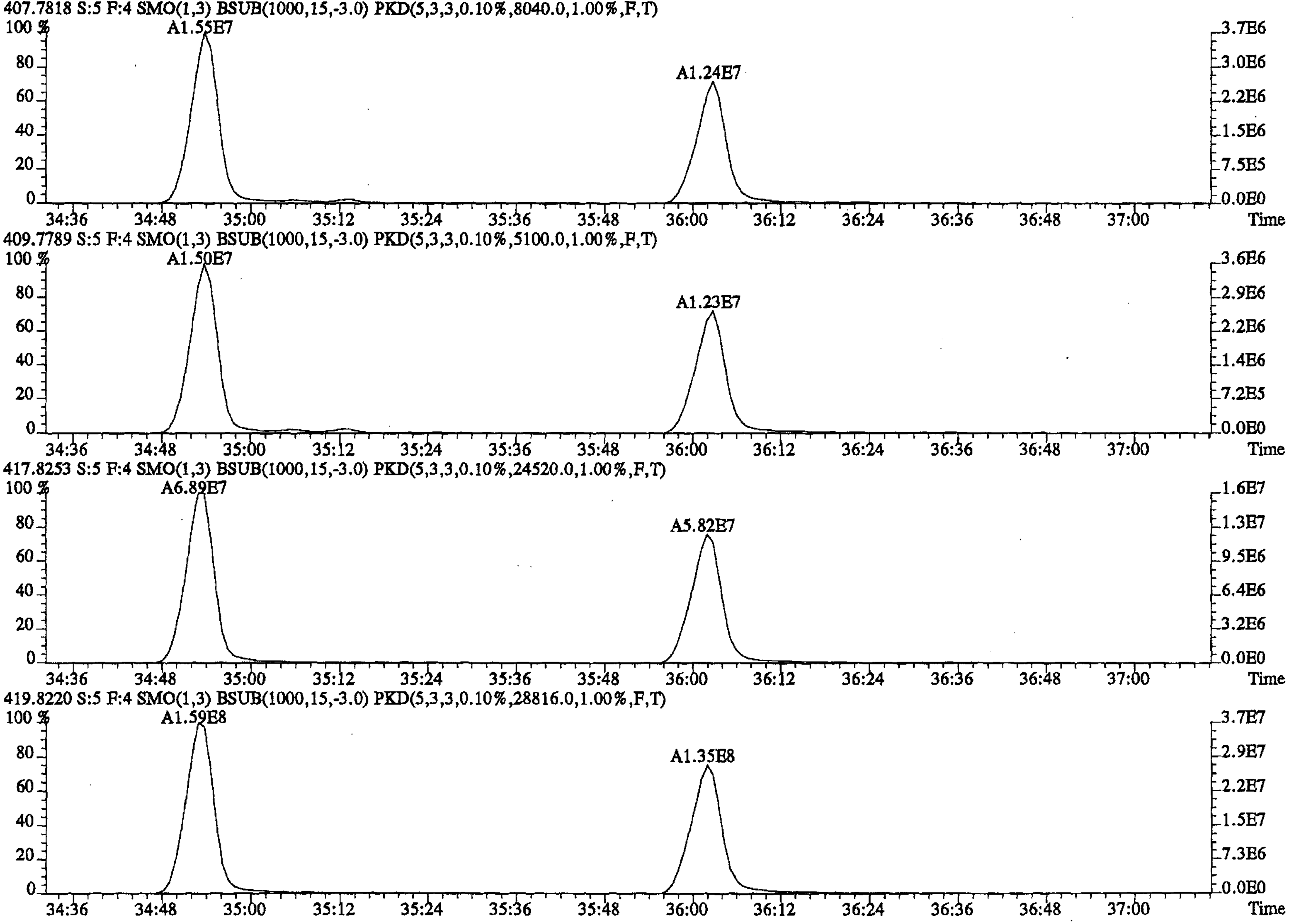
401.8559 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4048.0,1.00%,F,T)



403.8529 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2972.0,1.00%,F,T)

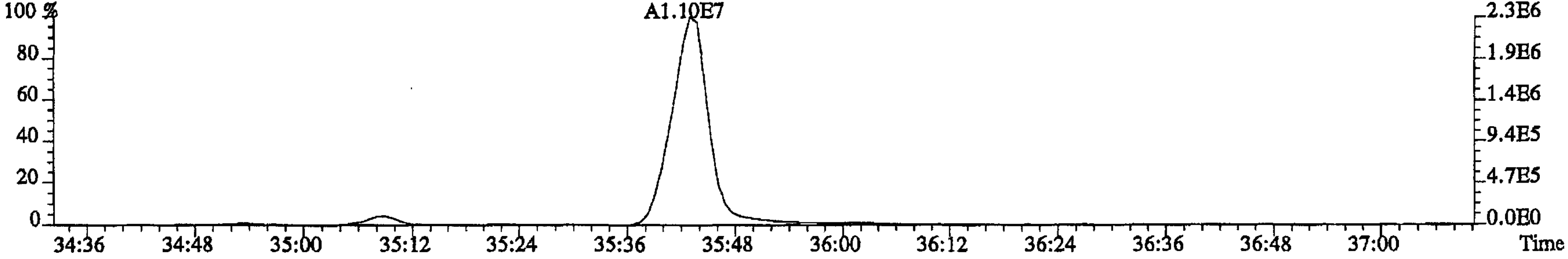


File:21JL10A4D5 #1-200 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

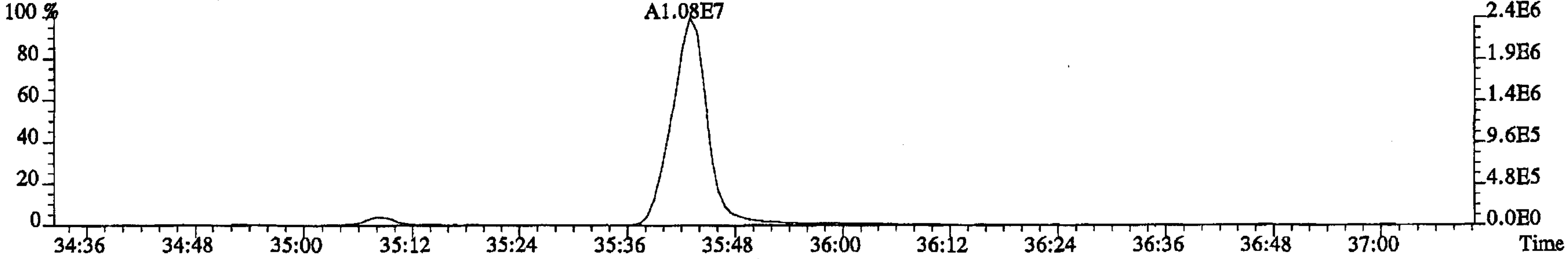


File:21JL10A4D5 #1-200 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

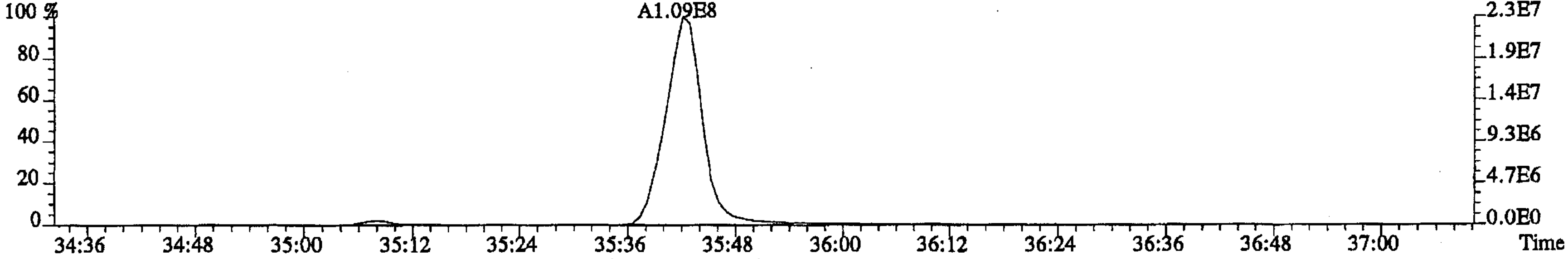
423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3164.0,1.00%,F,T)



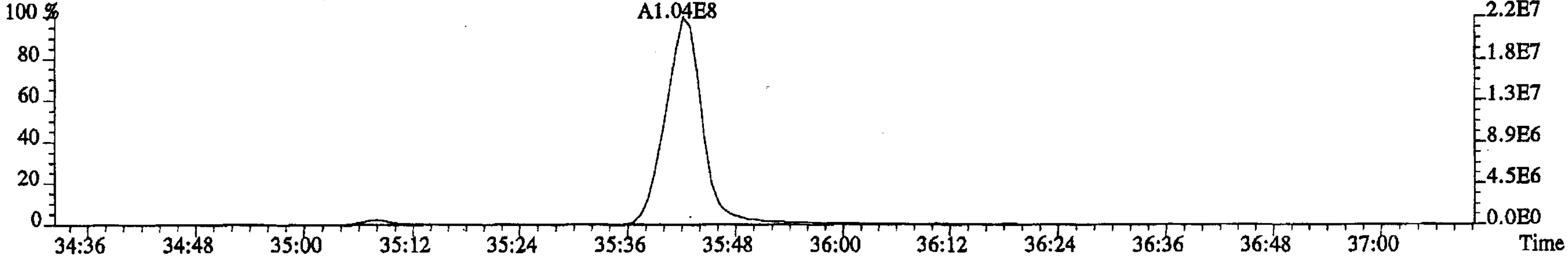
425.7737 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3412.0,1.00%,F,T)



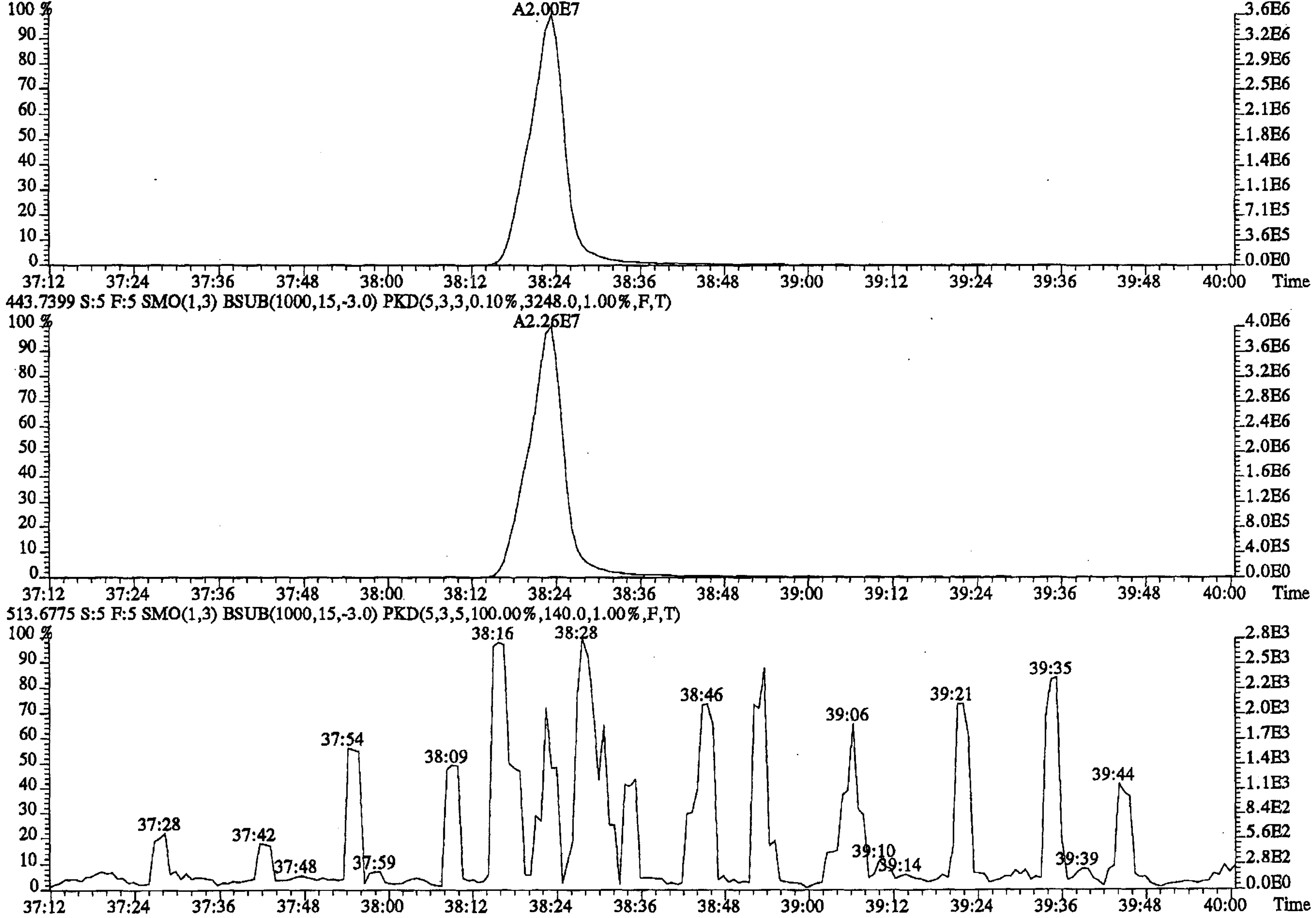
435.8169 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21636.0,1.00%,F,T)



437.8140 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22172.0,1.00%,F,T)



File:21JL10A4D5 #1-228 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES



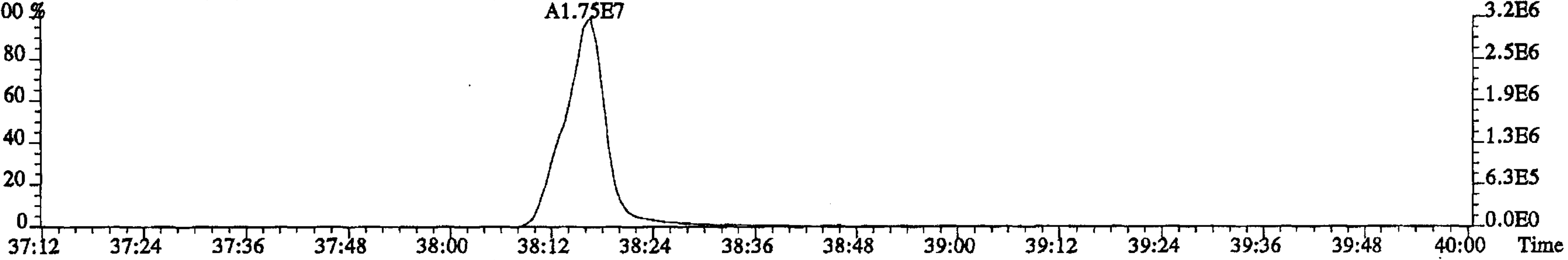
441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2904.0,1.00%,F,T)

443.7399 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3248.0,1.00%,F,T)

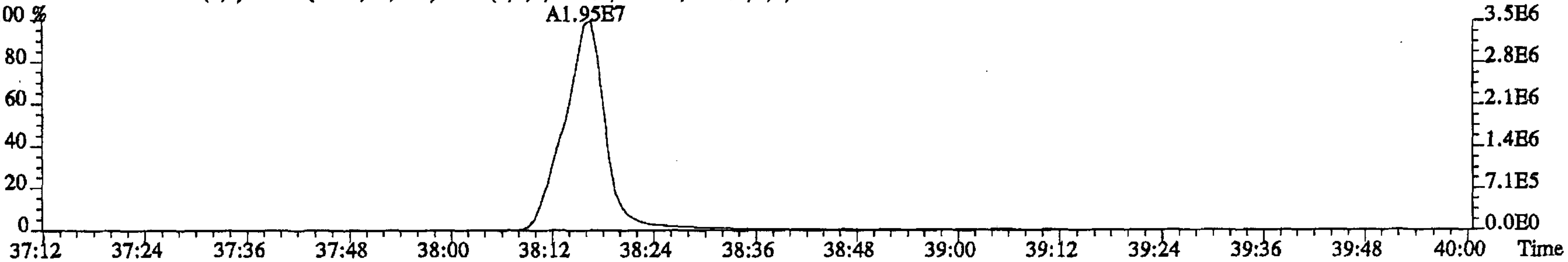
513.6775 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,140.0,1.00%,F,T)

File:21JL10A4D5 #1-228 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

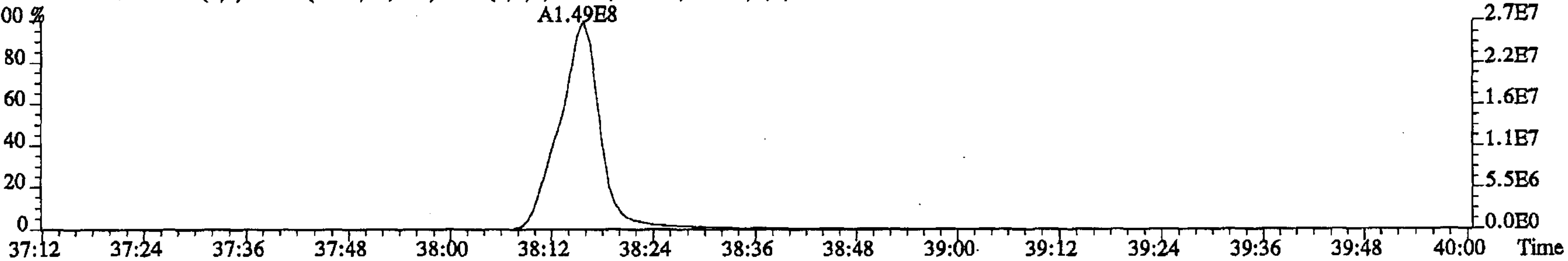
457.7377 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3728.0,1.00%,F,T)



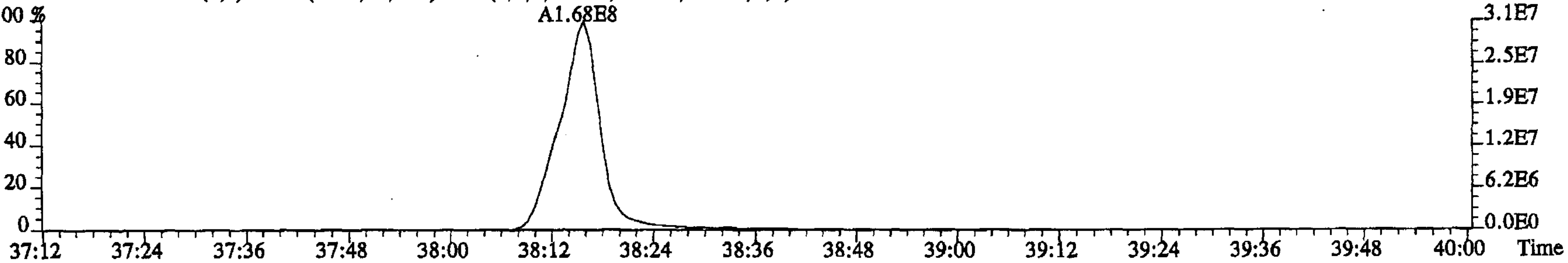
459.7348 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3772.0,1.00%,F,T)



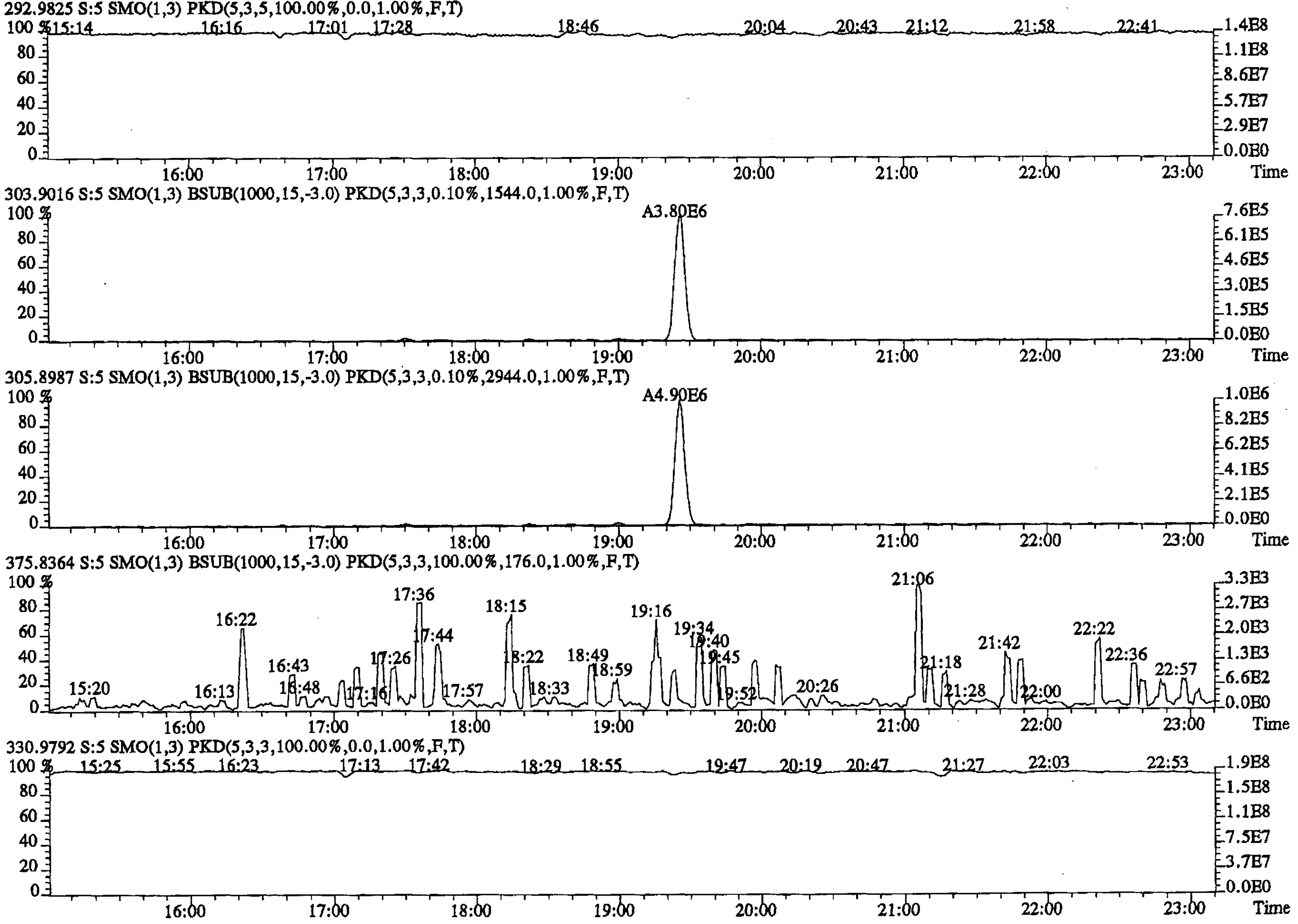
469.7779 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8144.0,1.00%,F,T)



471.7750 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5252.0,1.00%,F,T)

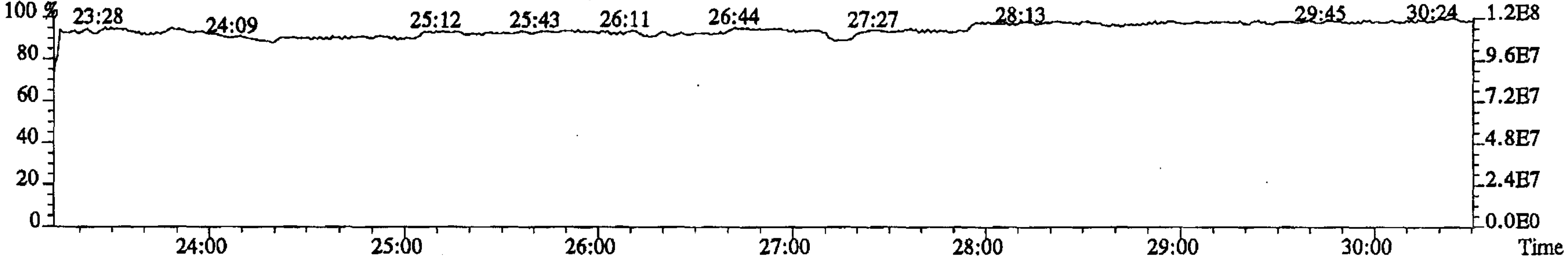


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

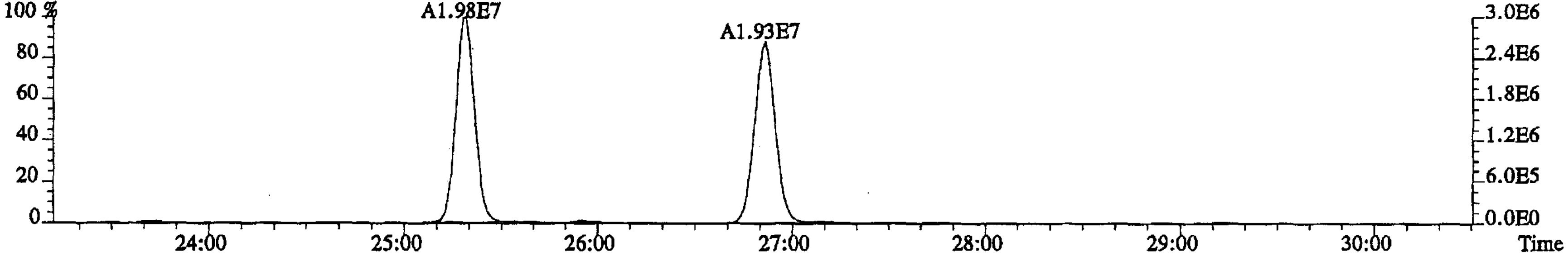


File:21JL10A4D5 #1-470 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

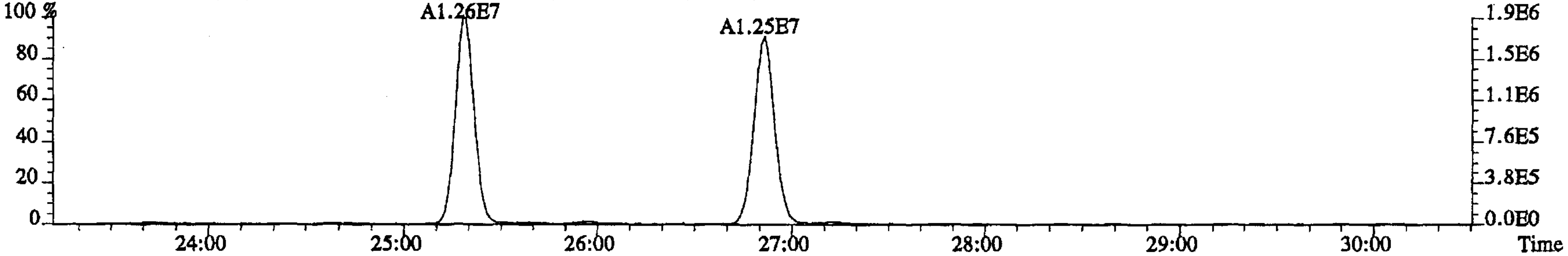
342.9792 S:5 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



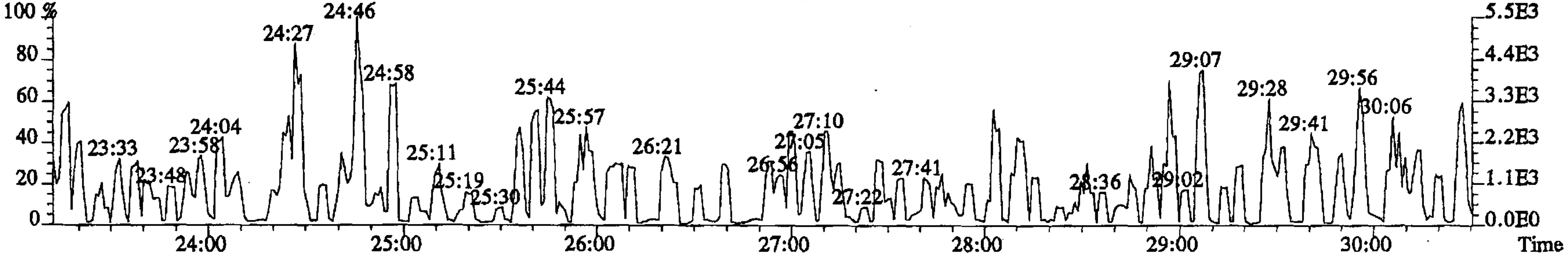
339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3196.0,1.00%,F,T)



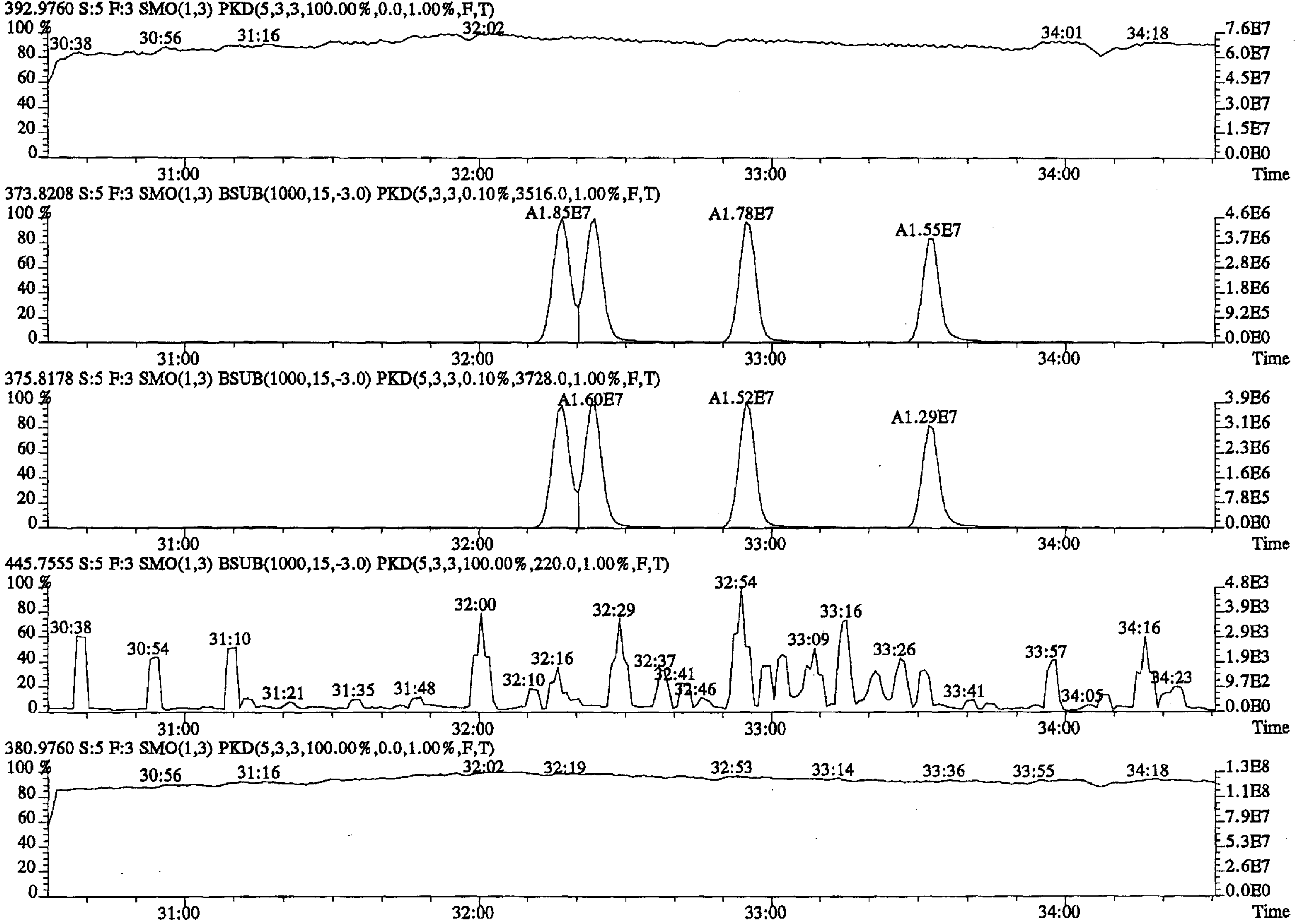
341.8567 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3080.0,1.00%,F,T)



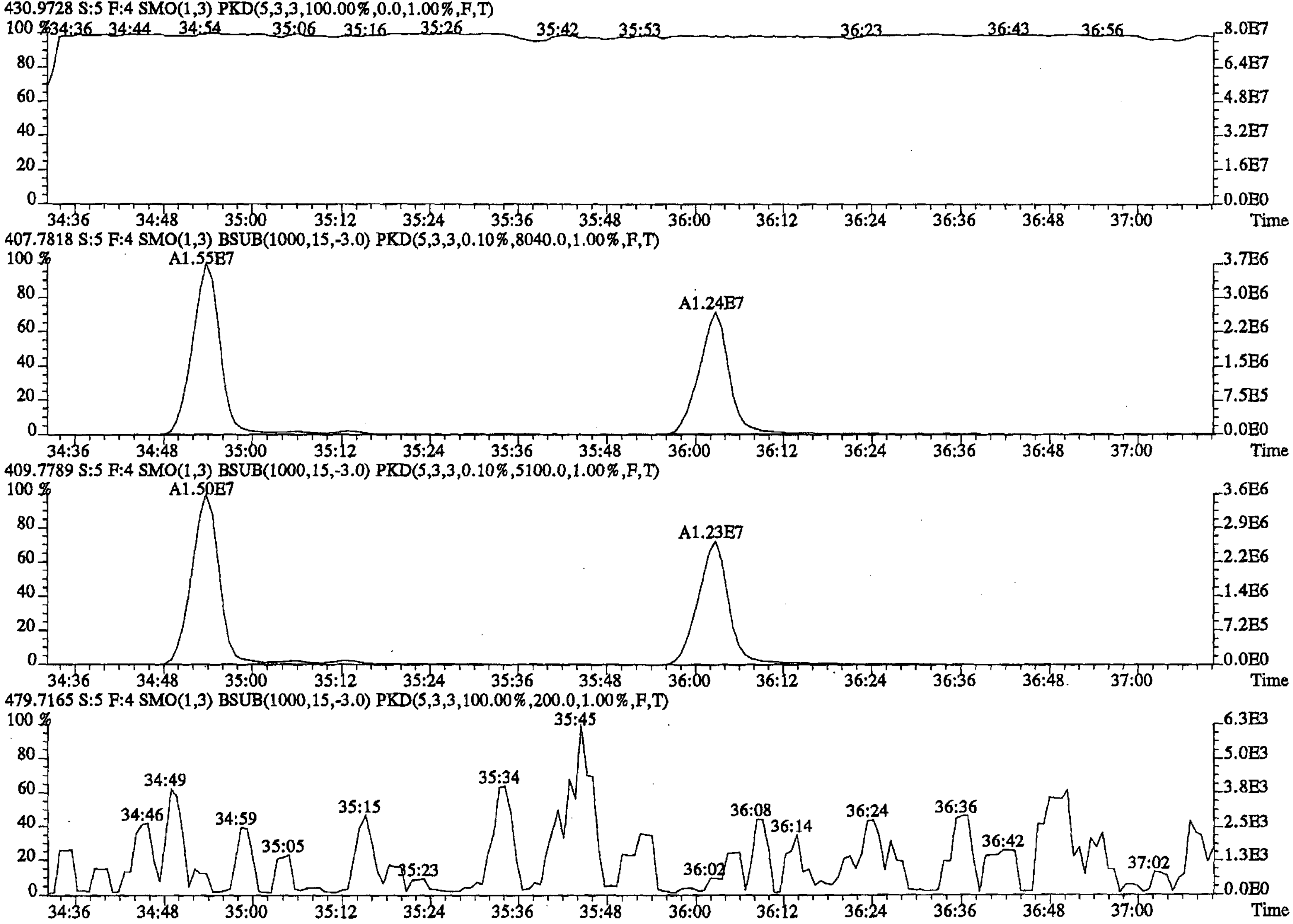
409.7974 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,148.0,1.00%,F,T)



File:21JL10A4D5 #1-287 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES



File:21JL10A4D5 #1-200 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES

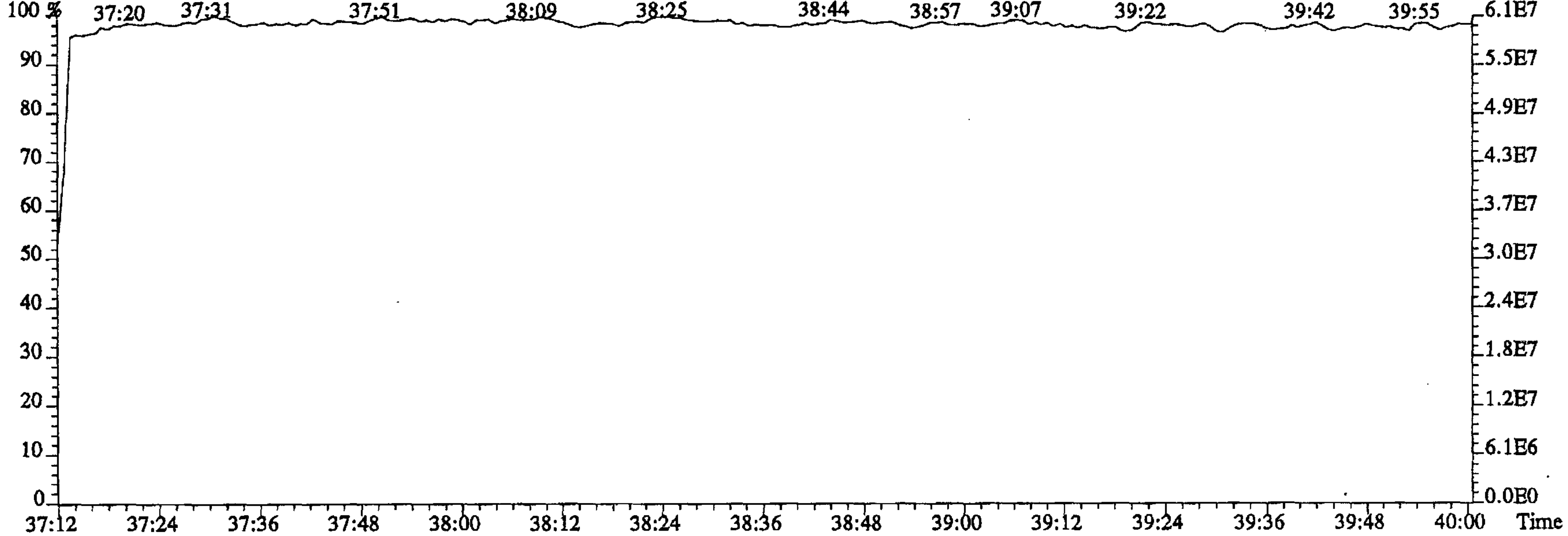

430.9728 S:5 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8040.0,1.00%,F,T)

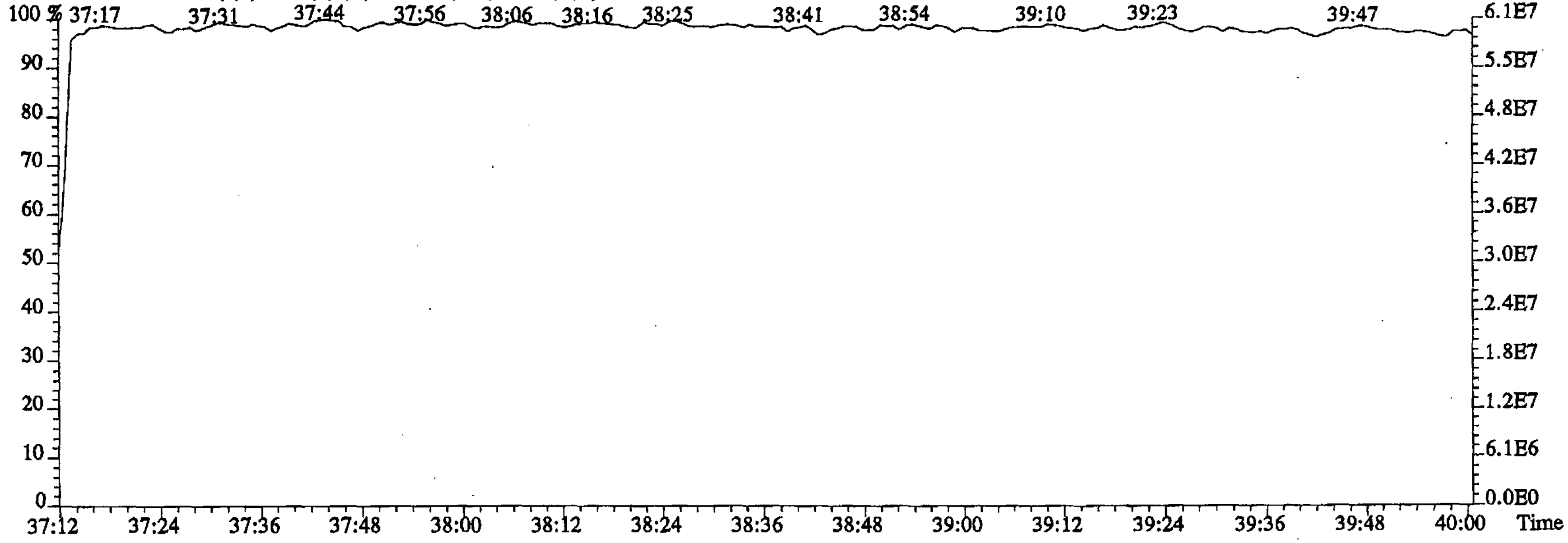
409.7789 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5100.0,1.00%,F,T)

479.7165 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,200.0,1.00%,F,T)

File:21JL10A4D5 #1-228 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES
454.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

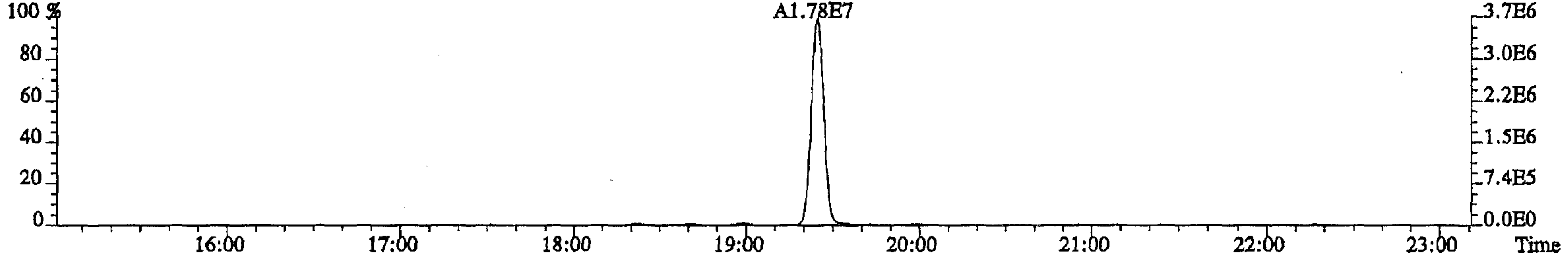


442.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

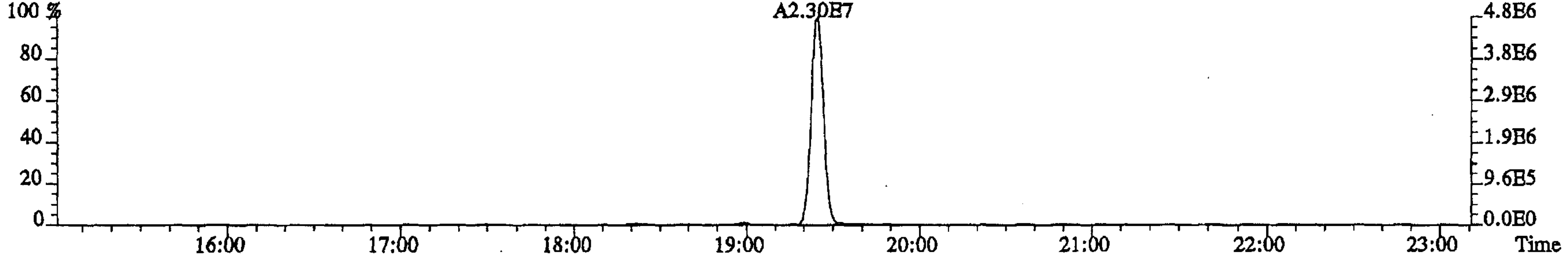


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

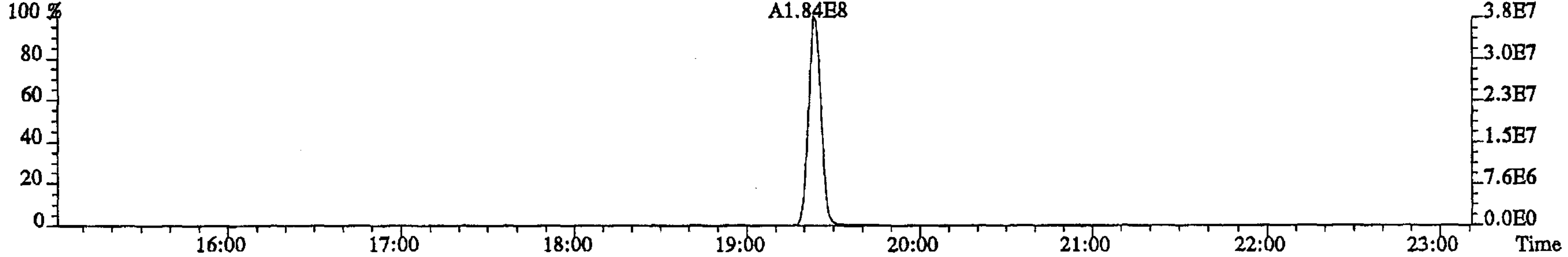
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2384.0,1.00%,F,T)



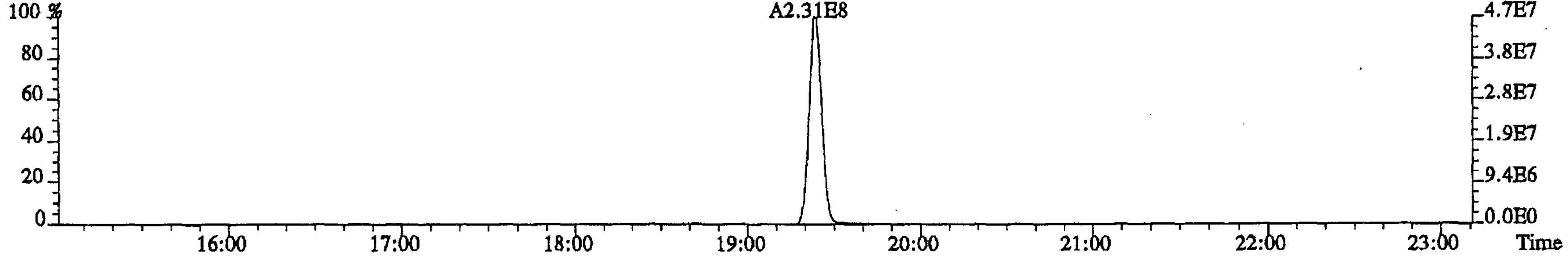
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3528.0,1.00%,F,T)



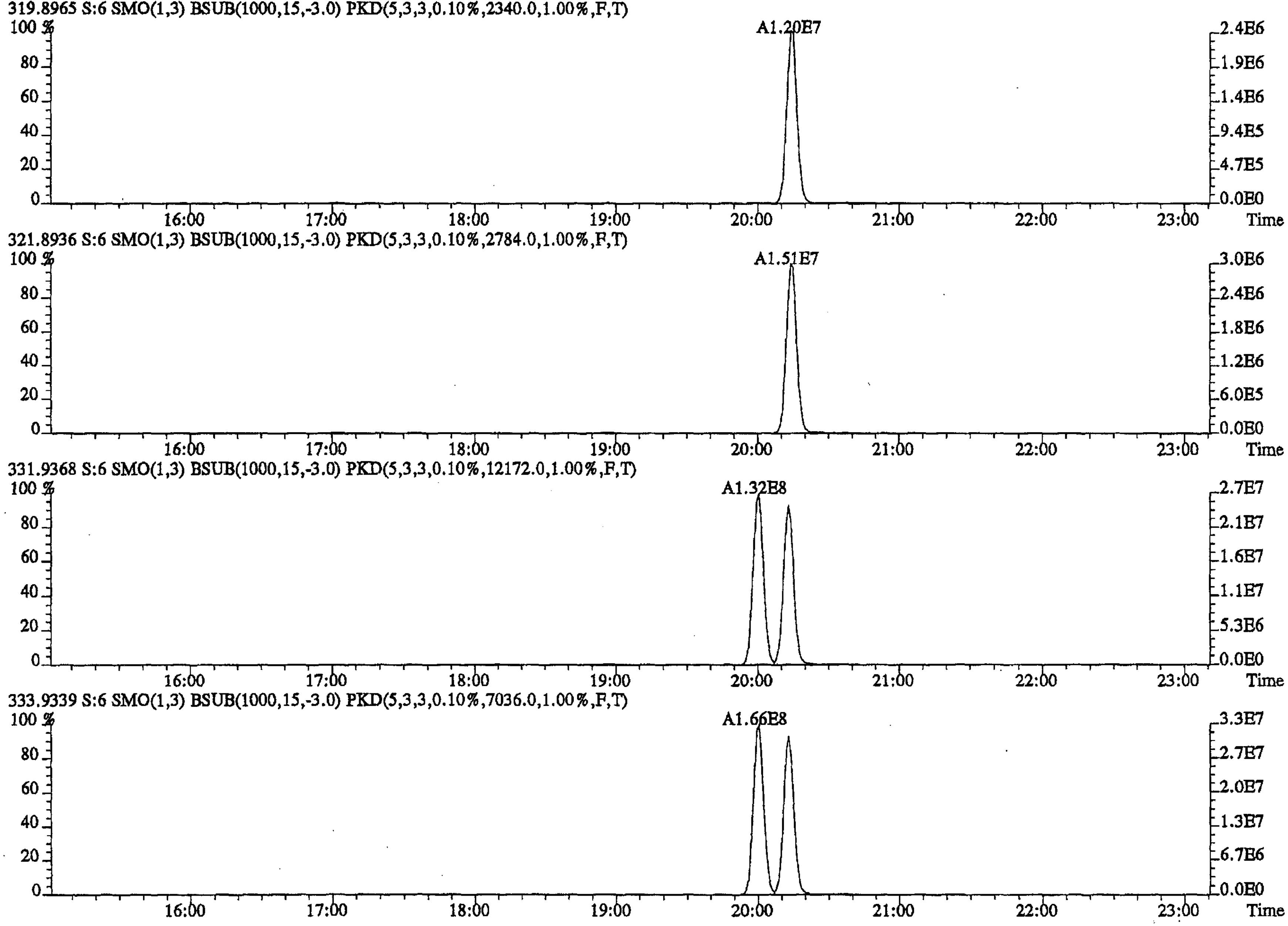
315.9419 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5208.0,1.00%,F,T)



317.9389 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6276.0,1.00%,F,T)

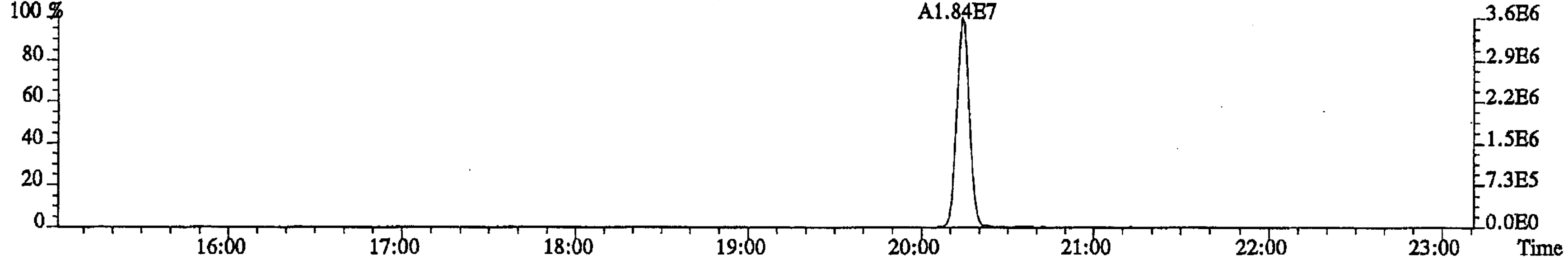


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

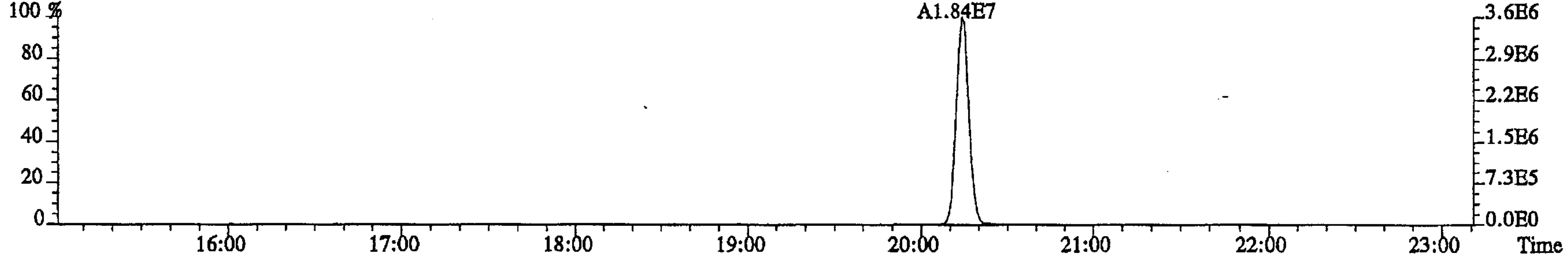


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

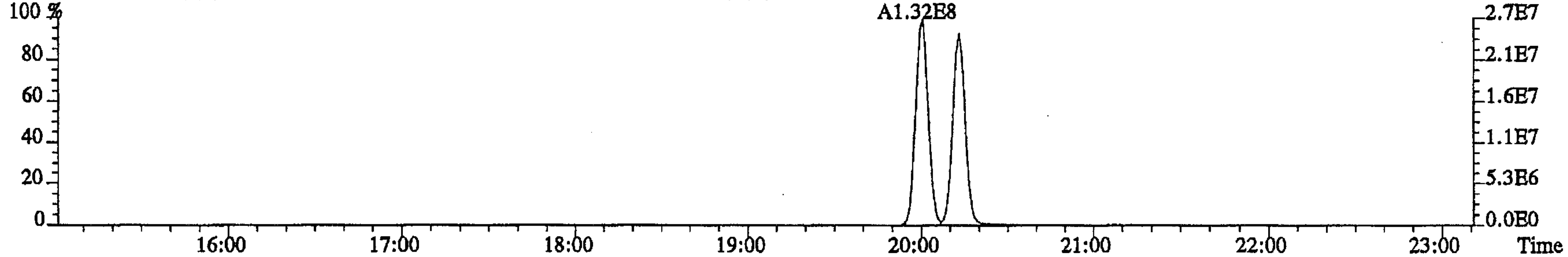
327.8847 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2672.0,1.00%,F,T)



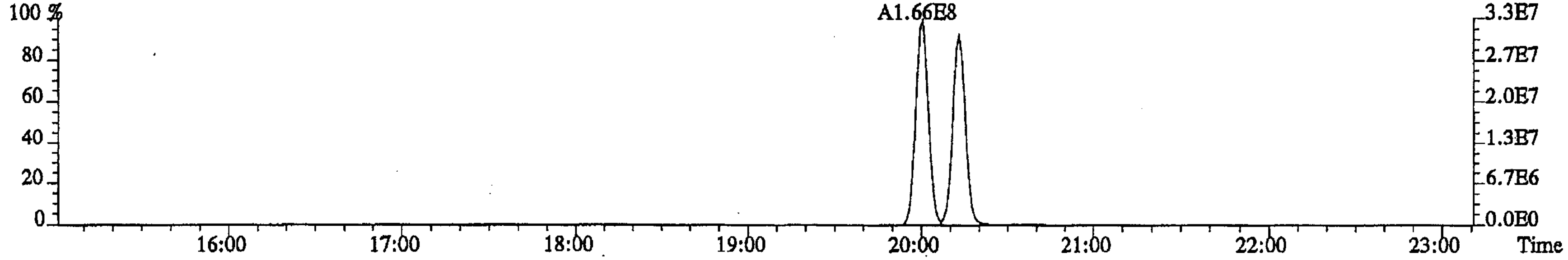
327.8847 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2672.0,1.00%,F,T)



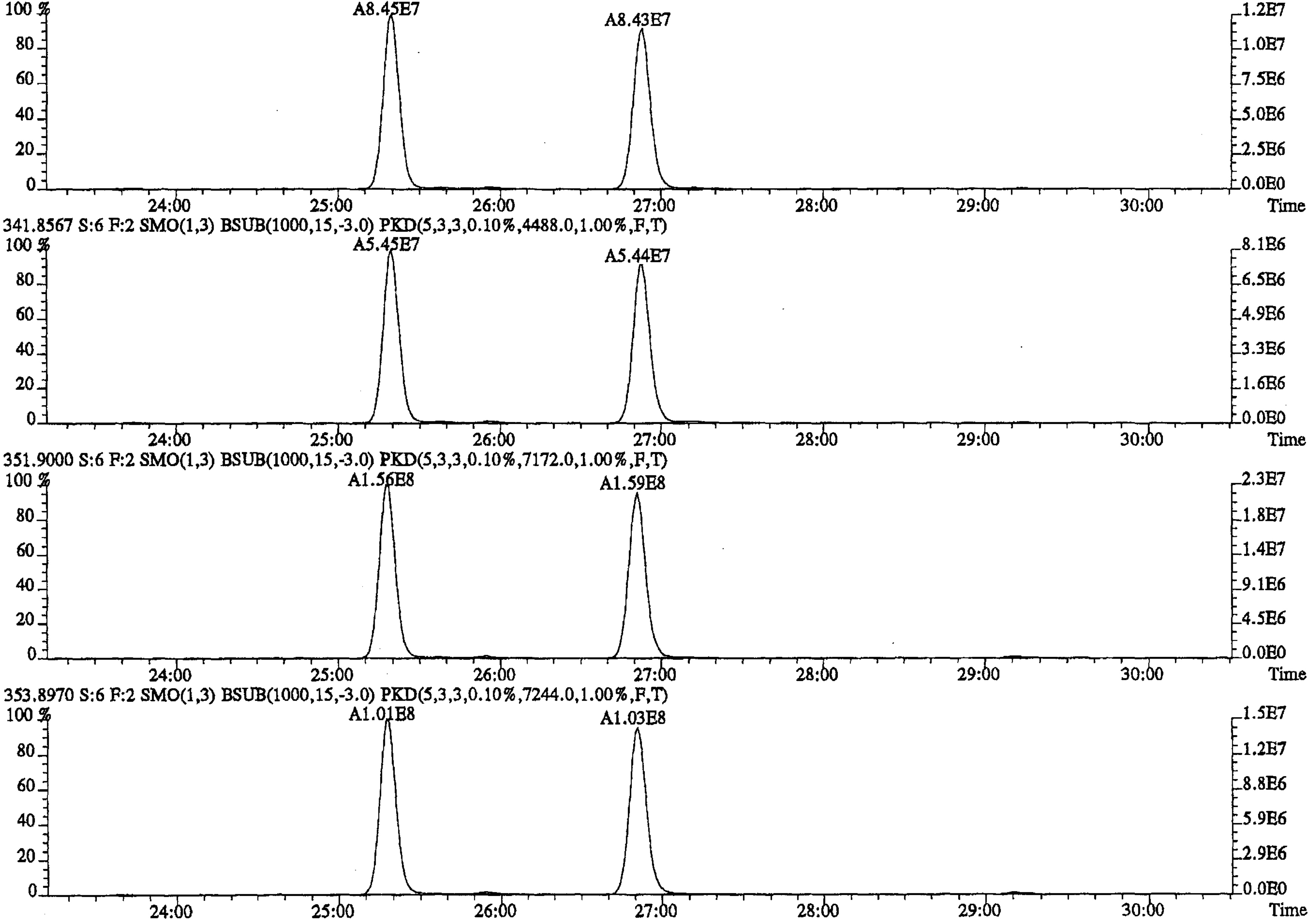
331.9368 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12172.0,1.00%,F,T)



333.9339 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7036.0,1.00%,F,T)



File:21JL10A4D5 #1-470 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES



339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5136.0,1.00%,F,T)

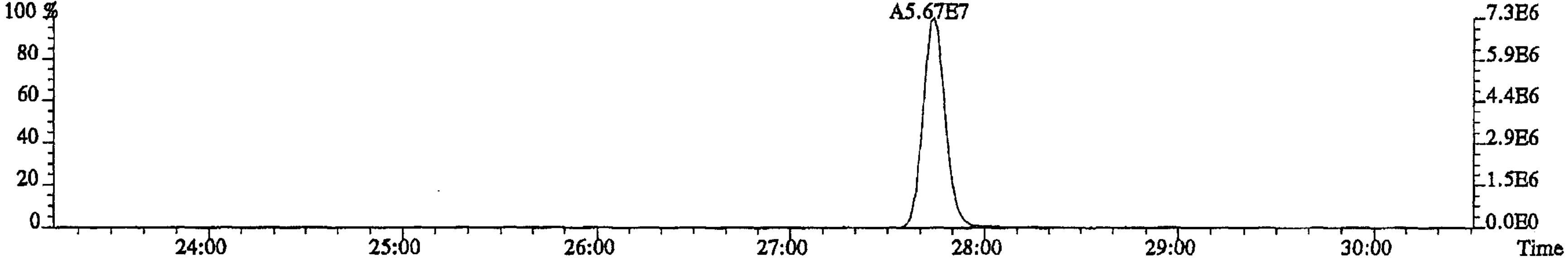
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4488.0,1.00%,F,T)

351.9000 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7172.0,1.00%,F,T)

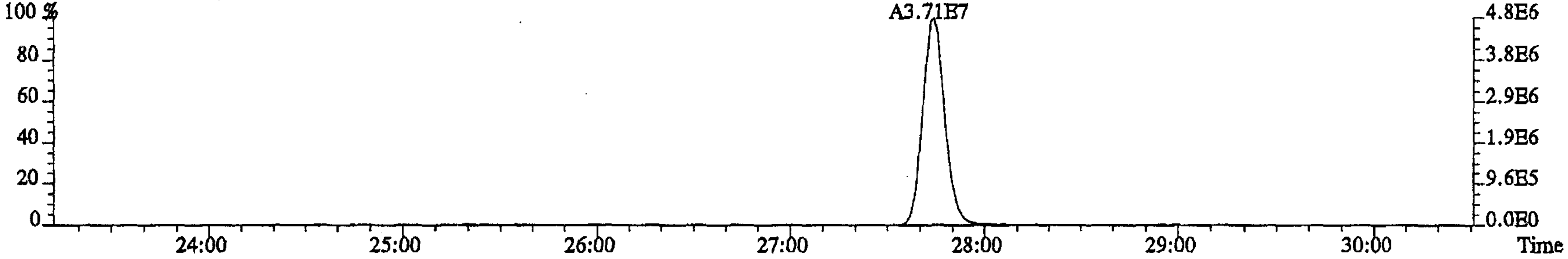
353.8970 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7244.0,1.00%,F,T)

File:21JL10A4D5 #1-470 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

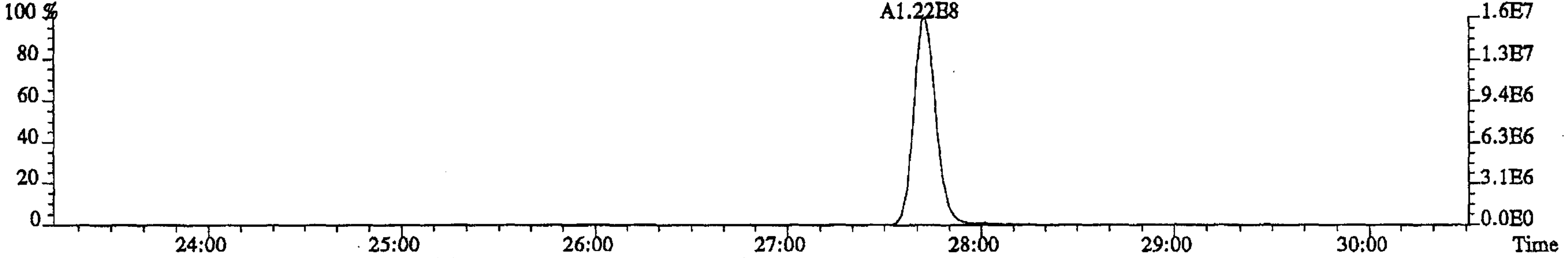
355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2856.0,1.00%,F,T)



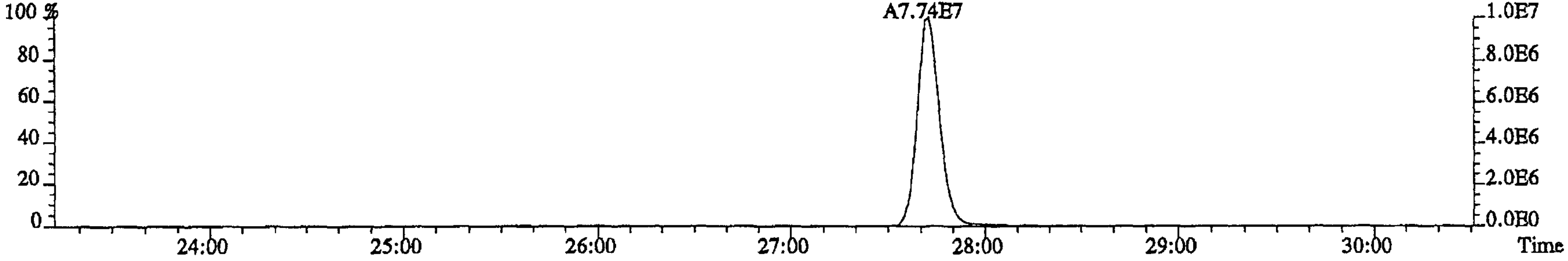
357.8516 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1472.0,1.00%,F,T)



367.8949 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5308.0,1.00%,F,T)

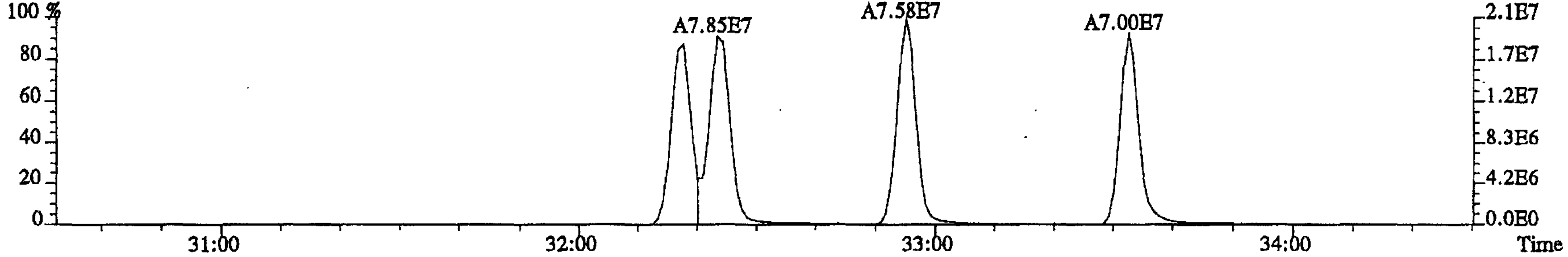


369.8919 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3820.0,1.00%,F,T)

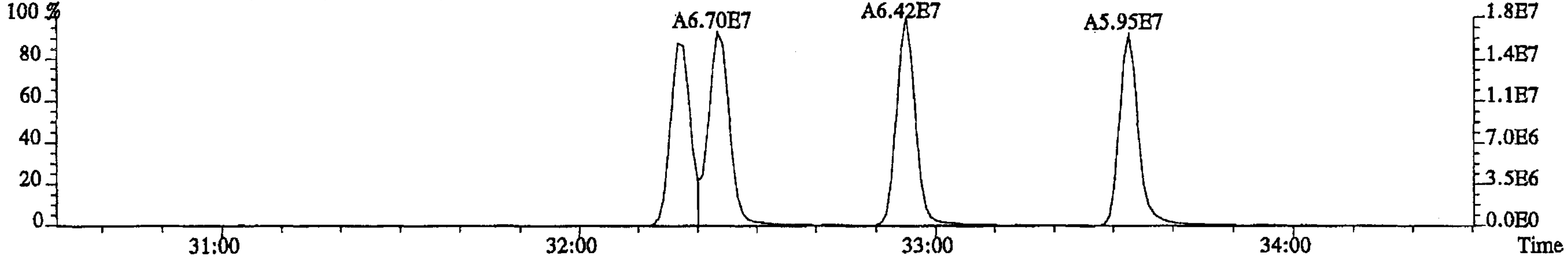


File:21JL10A4D5 #1-286 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

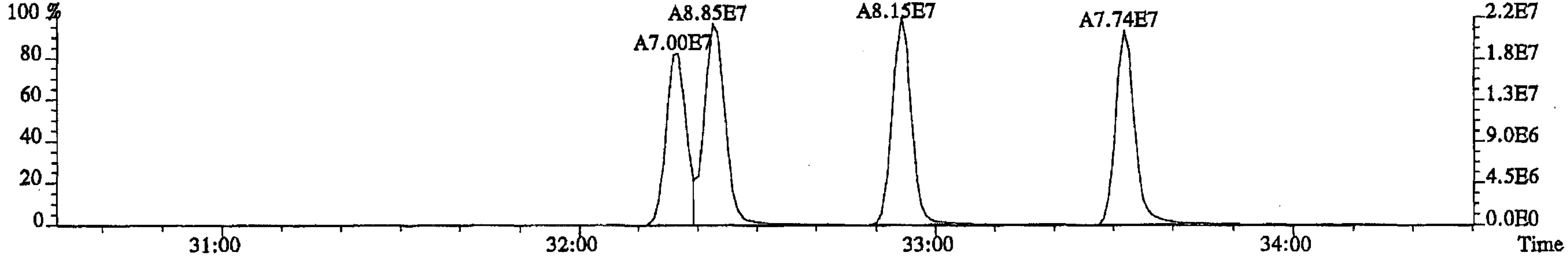
373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12848.0,1.00%,F,T)



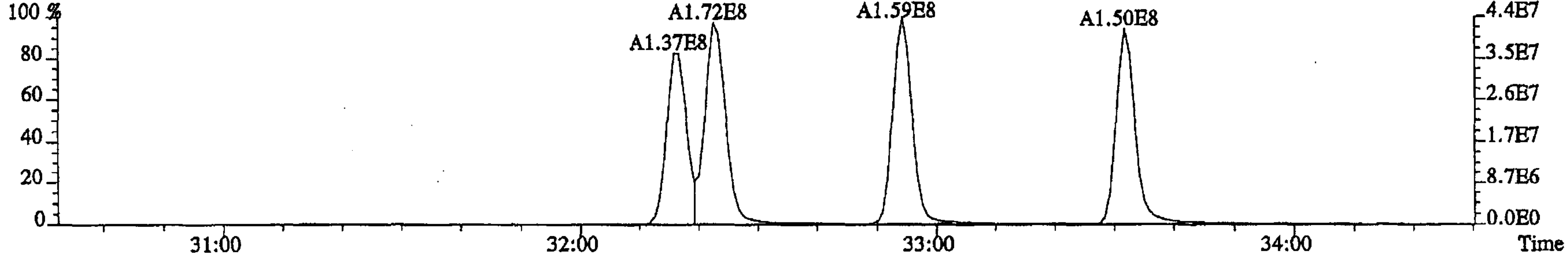
375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8856.0,1.00%,F,T)



383.8639 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16752.0,1.00%,F,T)

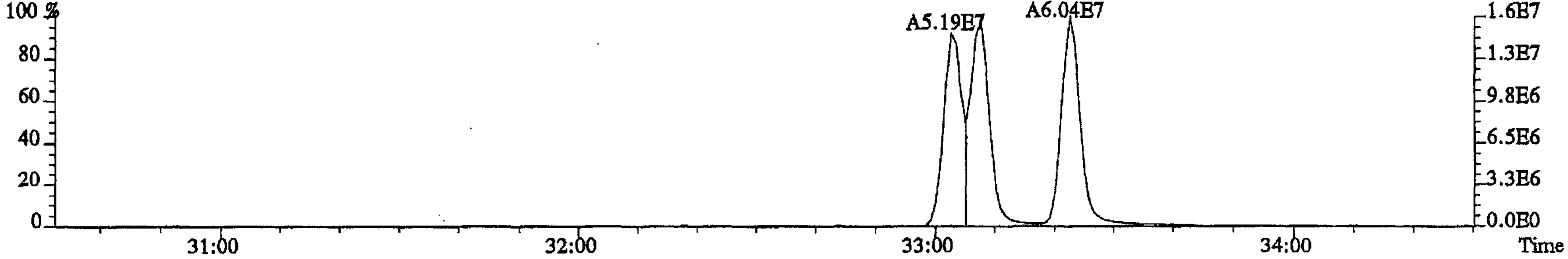


385.8610 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12624.0,1.00%,F,T)

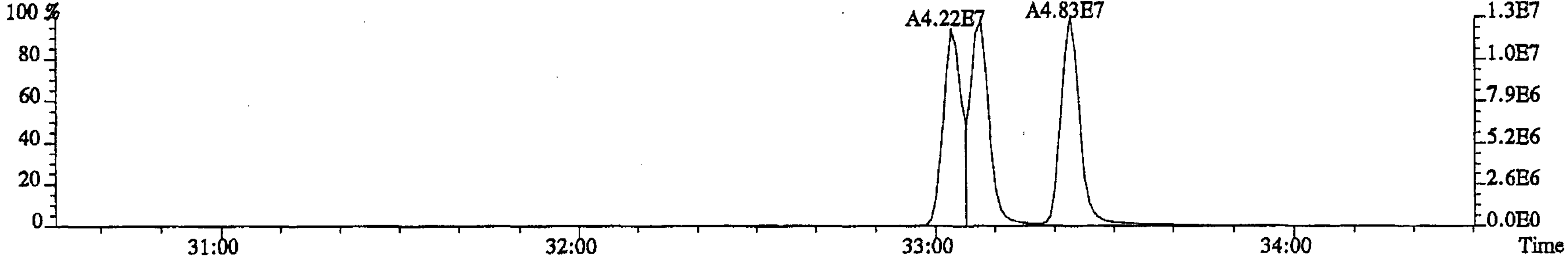


File:21JL10A4D5 #1-286 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

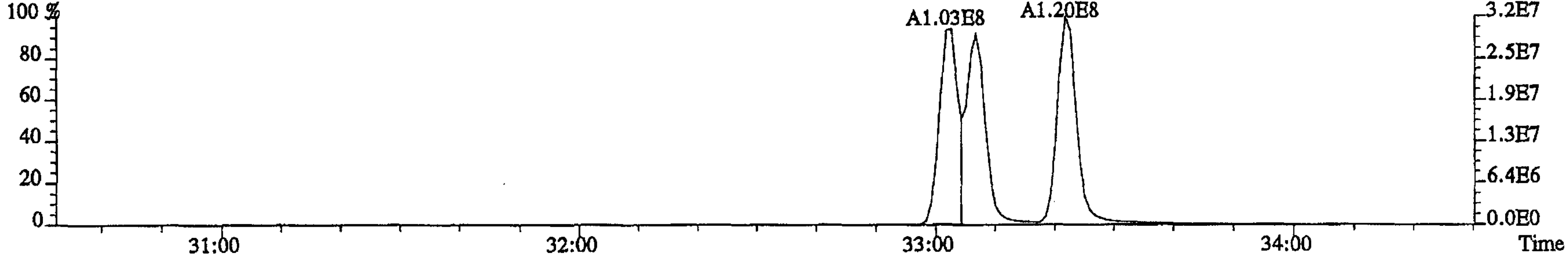
389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1980.0,1.00%,F,T)



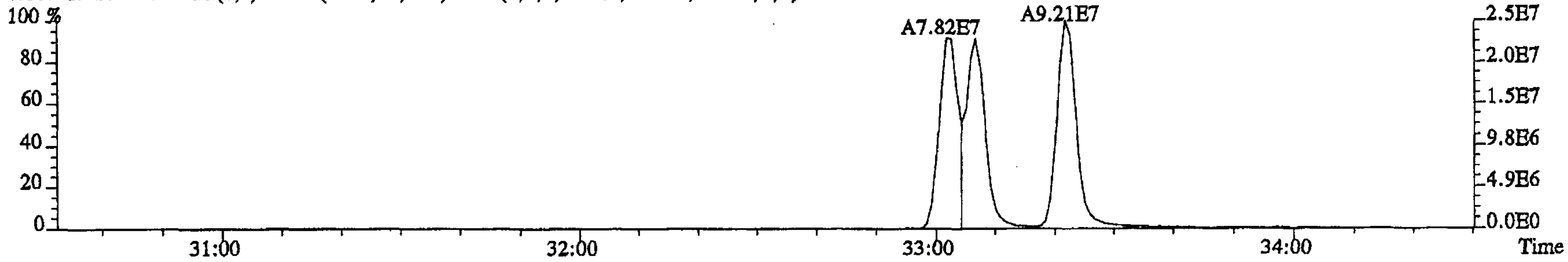
391.8127 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2240.0,1.00%,F,T)



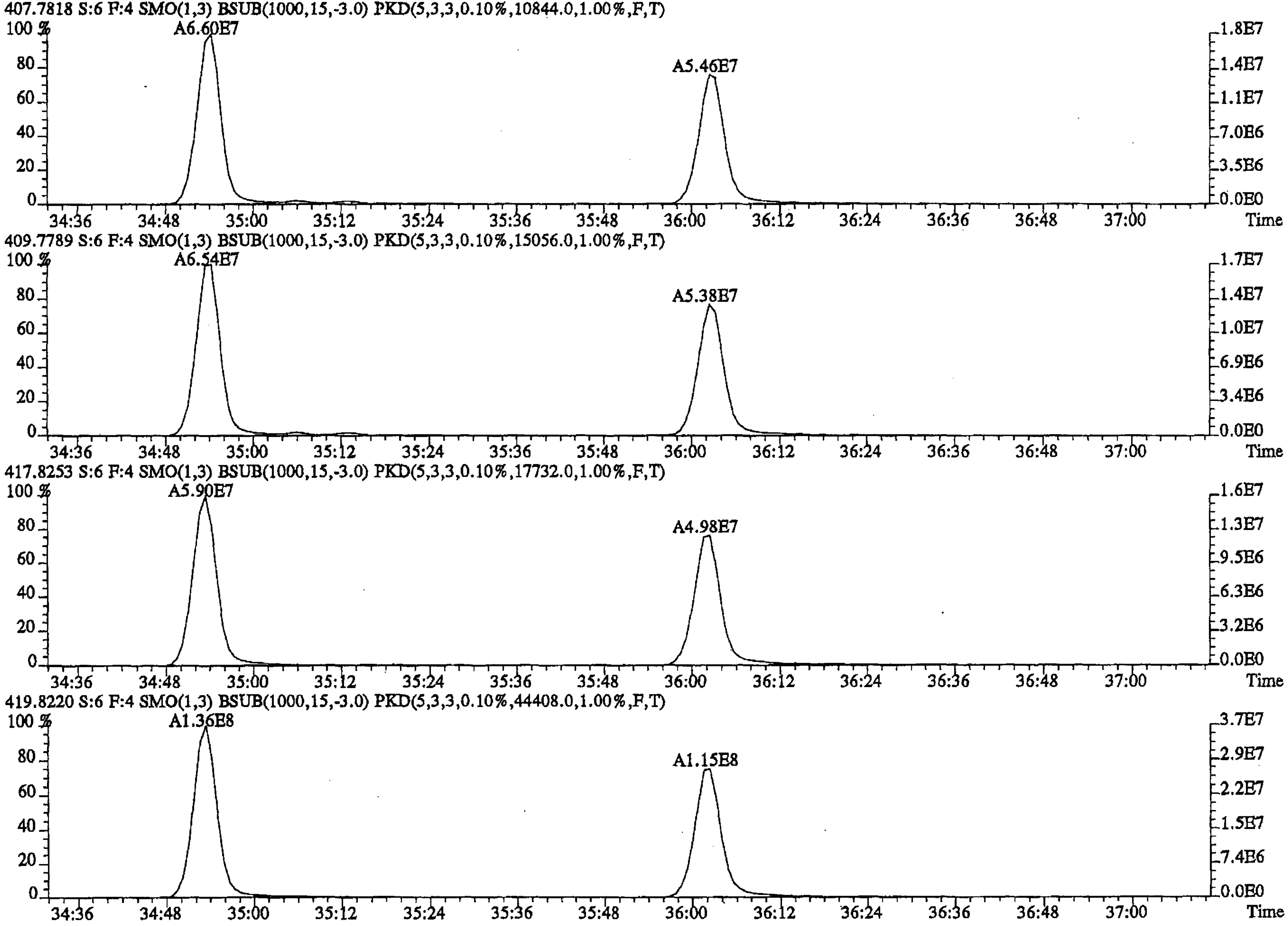
401.8559 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3240.0,1.00%,F,T)



403.8529 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3580.0,1.00%,F,T)

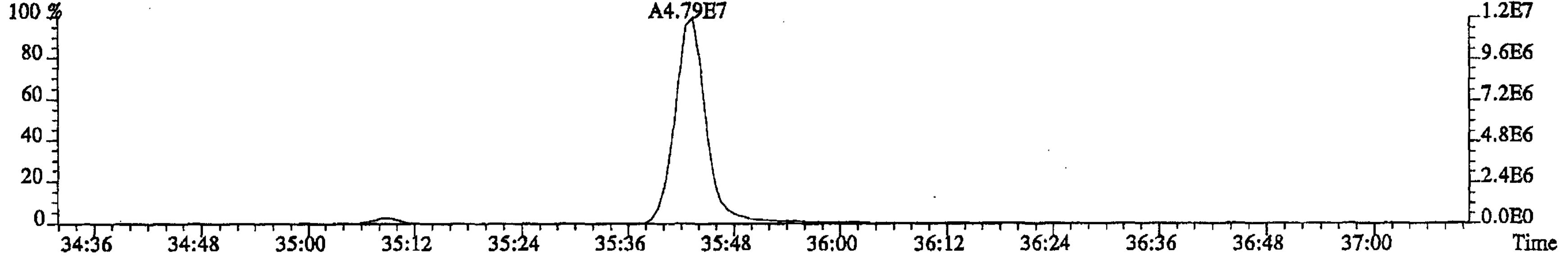


File:21JL10A4D5 #1-201 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

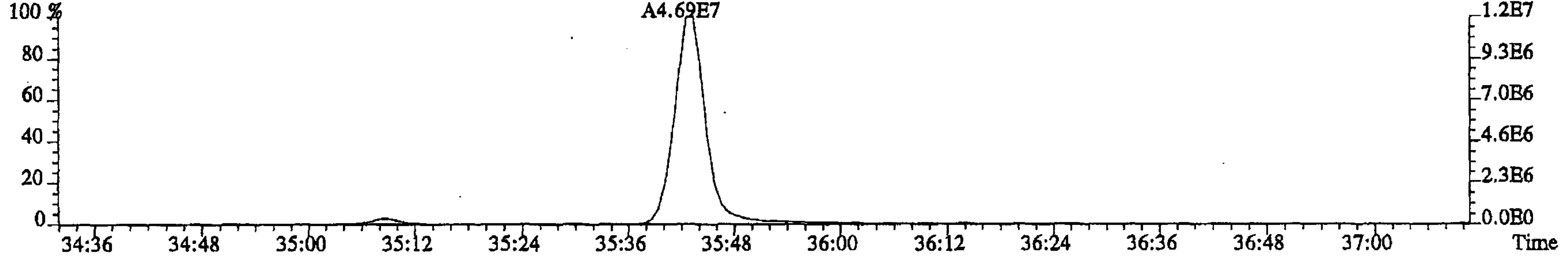


File:21JL10A4D5 #1-201 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

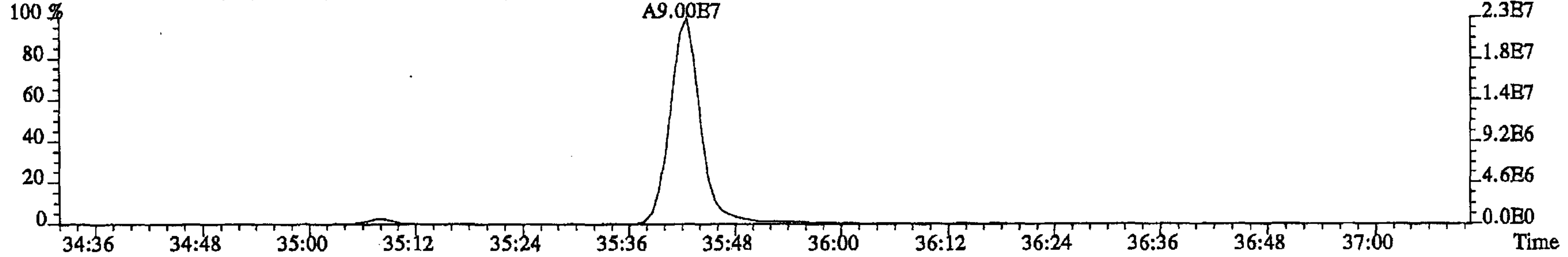
423.7766 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7856.0,1.00%,F,T)



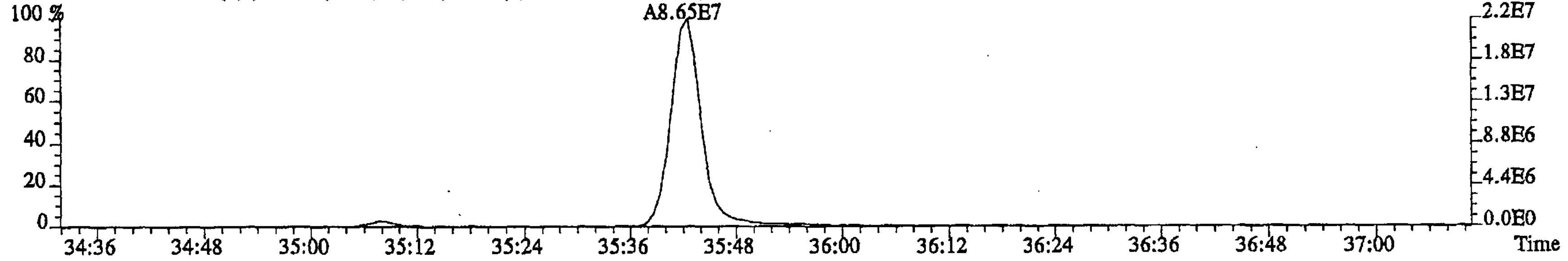
425.7737 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6236.0,1.00%,F,T)

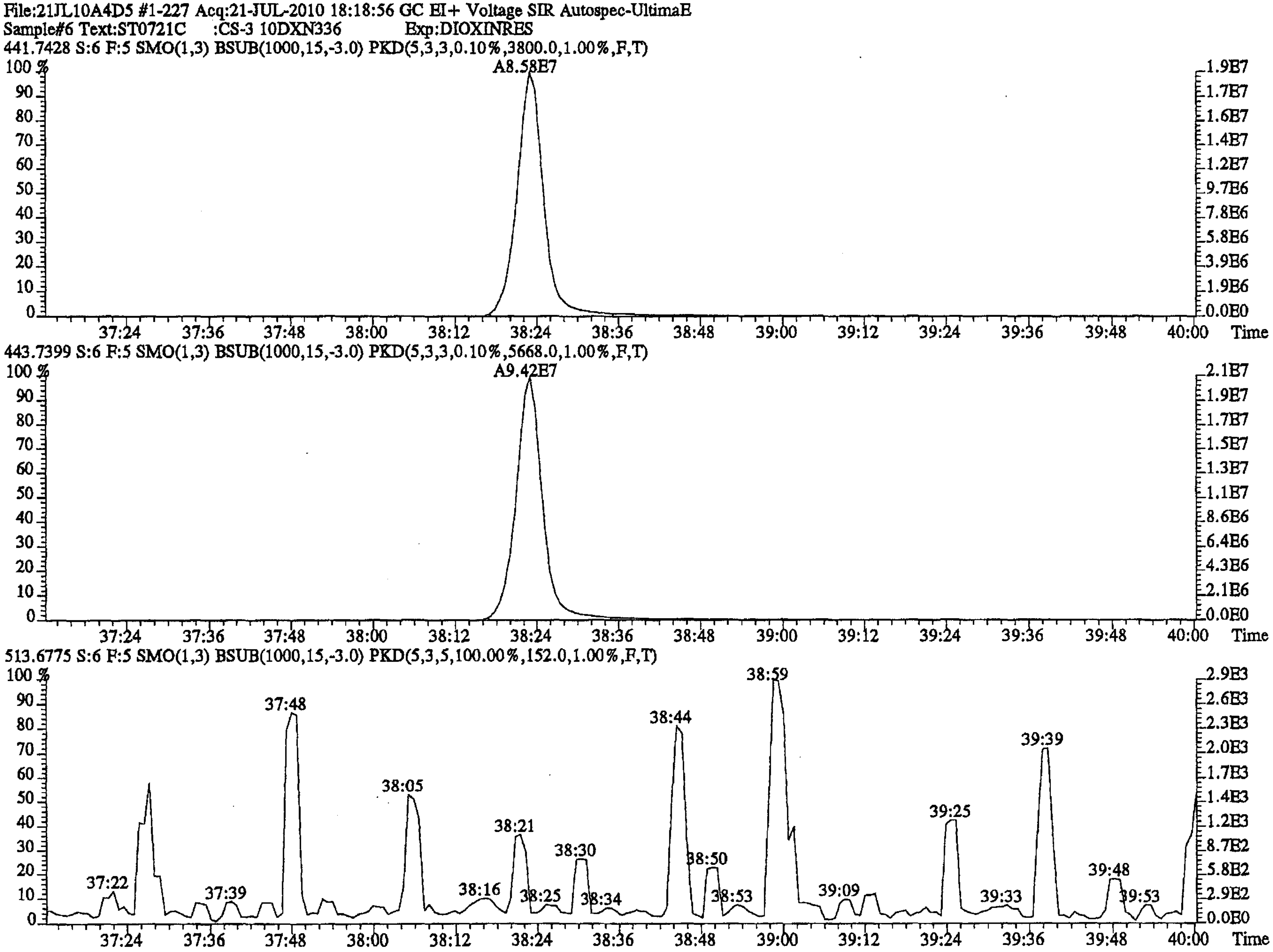


435.8169 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18532.0,1.00%,F,T)



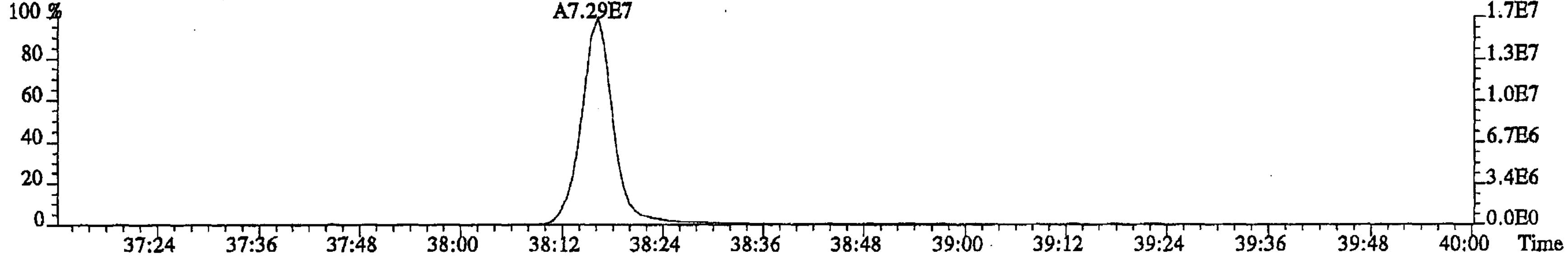
437.8140 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10884.0,1.00%,F,T)



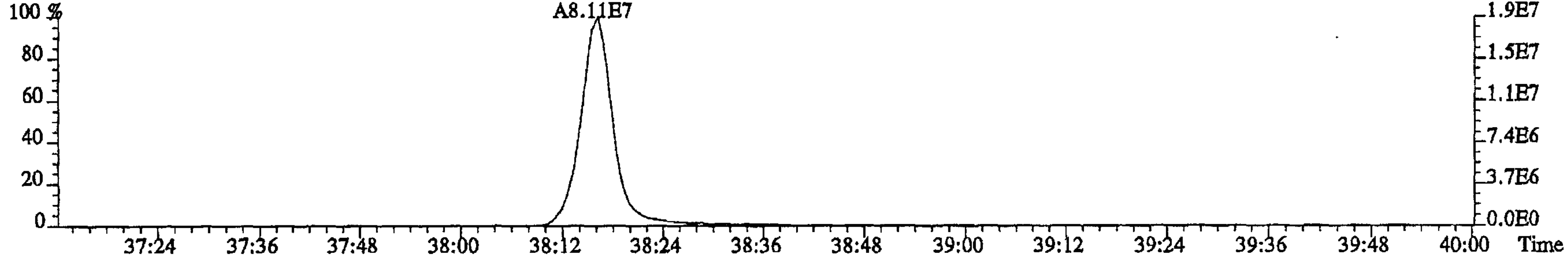

File:21JL10A4D5 #1-227 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES
441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3800.0,1.00%,F,T)
100 %
90
80
70
60
50
40
30
20
10
0
A8.58E7
1.9E7
1.7E7
1.6E7
1.4E7
1.2E7
9.7E6
7.8E6
5.8E6
3.9E6
1.9E6
0.0E0
37:24
37:36
37:48
38:00
38:12
38:24
38:36
38:48
39:00
39:12
39:24
39:36
39:48
40:00
Time
443.7399 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5668.0,1.00%,F,T)
100 %
A9.42E7
2.1E7
1.9E7
1.7E7
1.5E7
1.3E7
1.1E7
8.6E6
6.4E6
4.3E6
2.1E6
0.0E0
Time
513.6775 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,152.0,1.00%,F,T)
100 %
37:22
37:39
37:48
38:05
38:16
38:21
38:25
38:30
38:34
38:44
38:50
38:53
38:59
39:09
39:25
39:33
39:39
39:48
39:53
2.9E3
2.6E3
2.3E3
2.0E3
1.7E3
1.4E3
1.2E3
8.7E2
5.8E2
2.9E2
0.0E0
Time

File:21JL10A4D5 #1-227 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

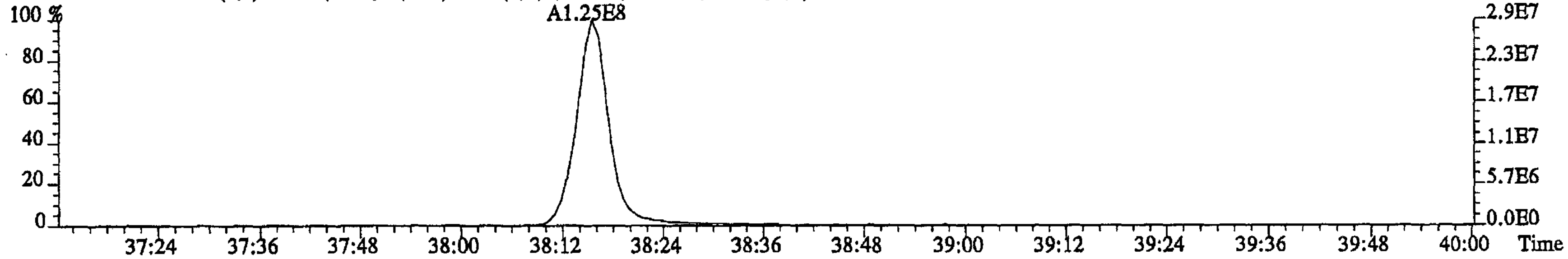
457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3472.0,1.00%,F,T)



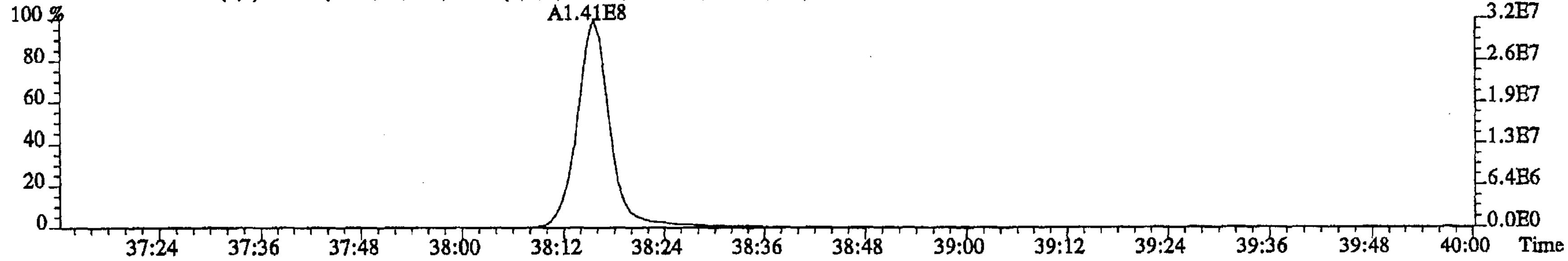
459.7348 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7128.0,1.00%,F,T)



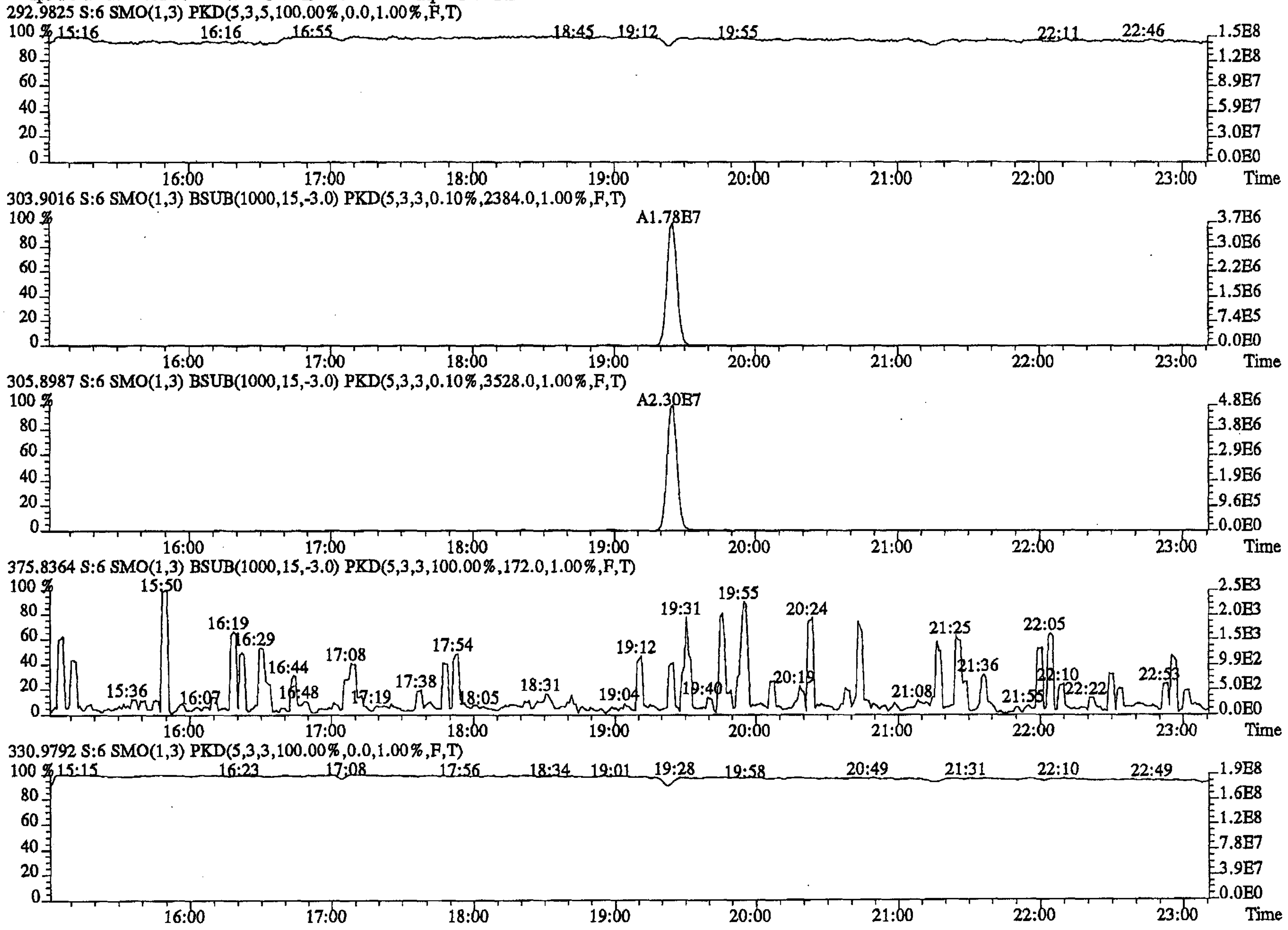
469.7779 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10384.0,1.00%,F,T)



471.7750 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10596.0,1.00%,F,T)



File:21JL10A4D5 #1-541 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES



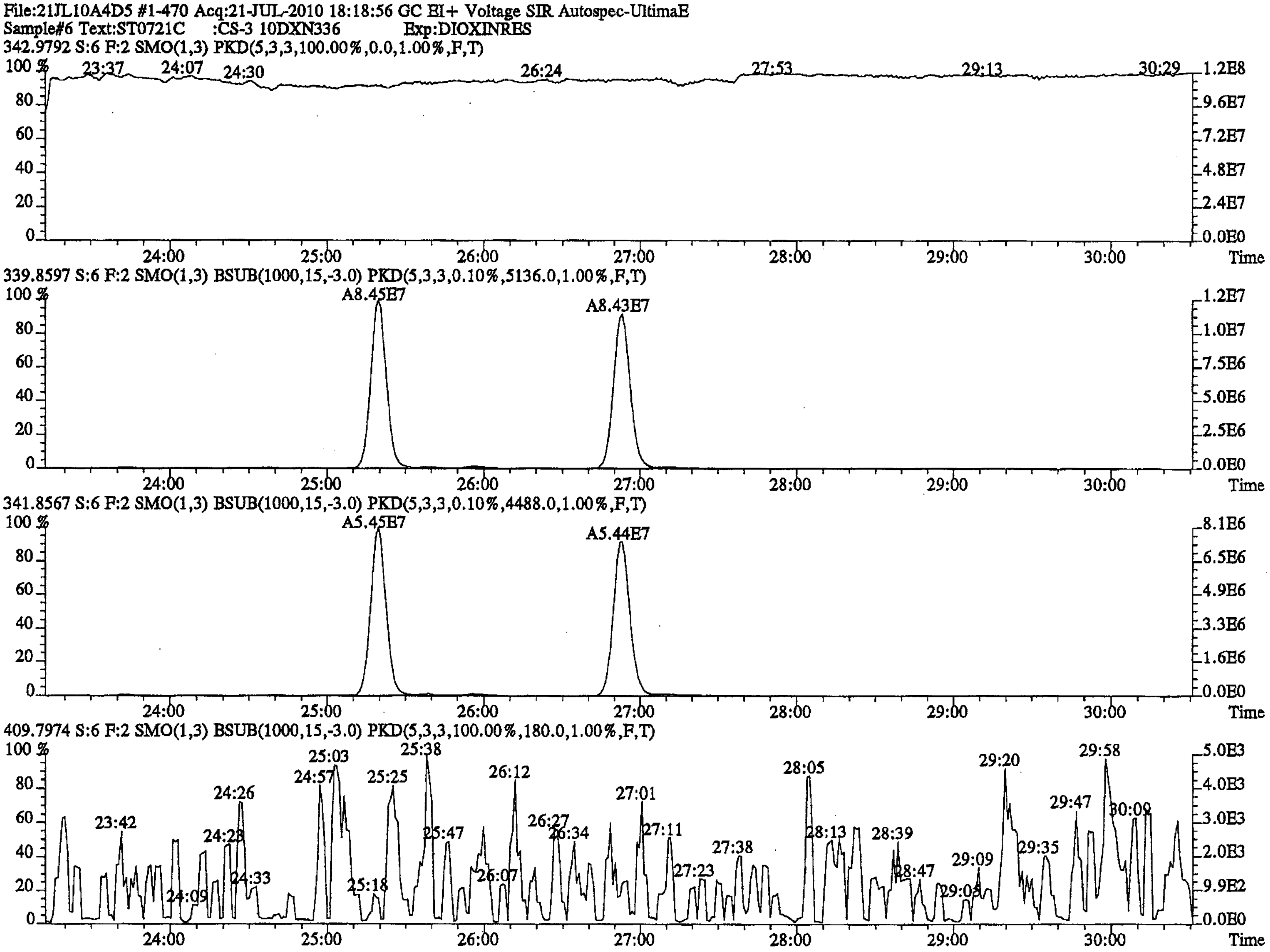
292.9825 S:6 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2384.0,1.00%,F,T)

305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3528.0,1.00%,F,T)

375.8364 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,172.0,1.00%,F,T)

330.9792 S:6 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:21JL10A4D5 #1-470 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

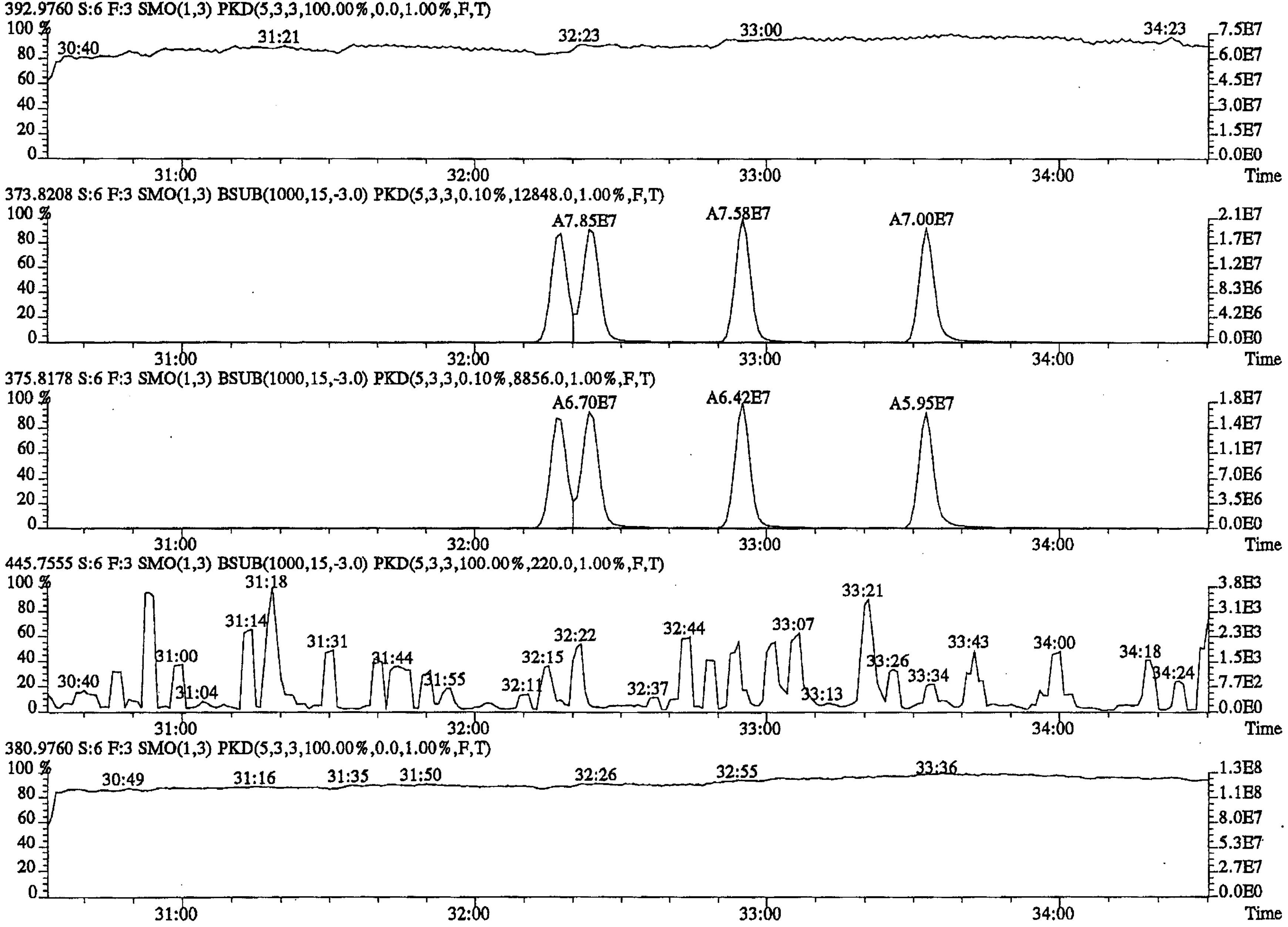
342.9792 S:6 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5136.0,1.00%,F,T)

341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4488.0,1.00%,F,T)

409.7974 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,180.0,1.00%,F,T)

File:21JL10A4D5 #1-286 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES



392.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

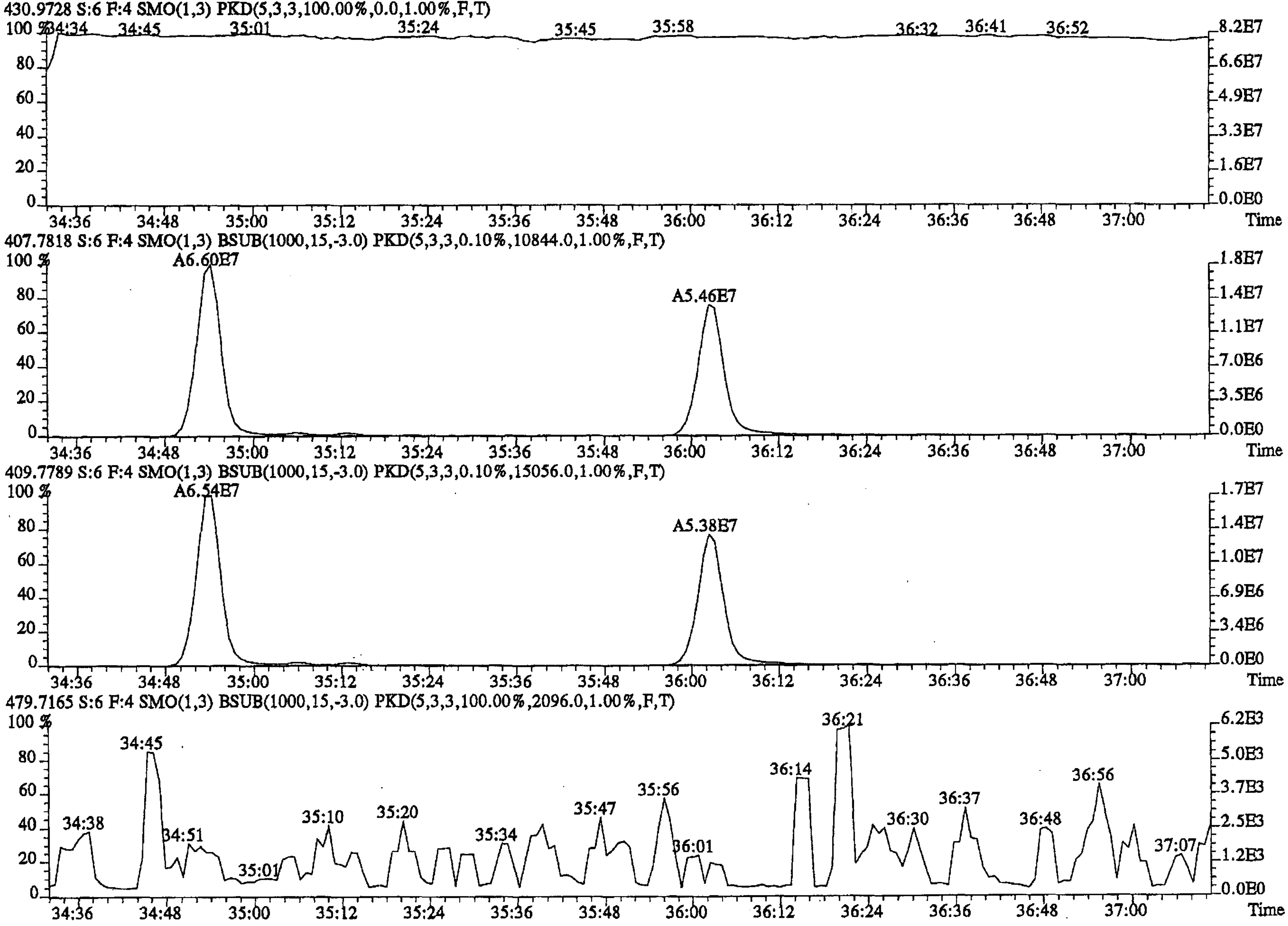
373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12848.0,1.00%,F,T)

375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8856.0,1.00%,F,T)

445.7555 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,220.0,1.00%,F,T)

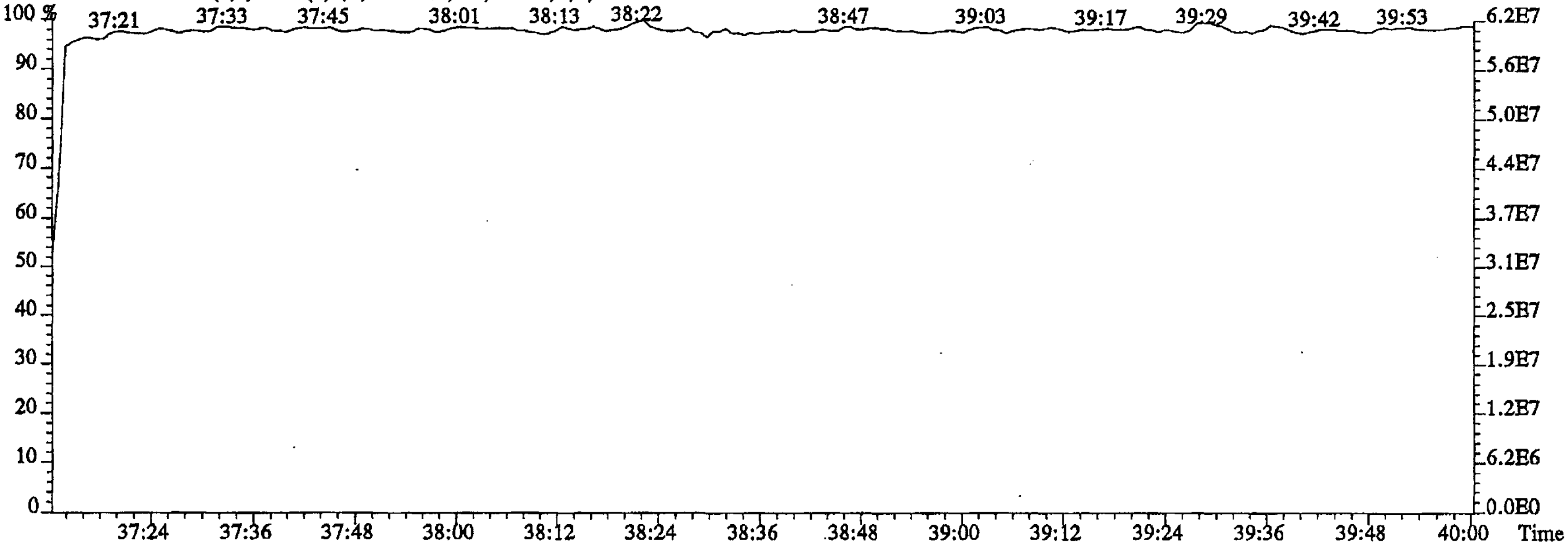
380.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

File:21JL10A4D5 #1-201 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

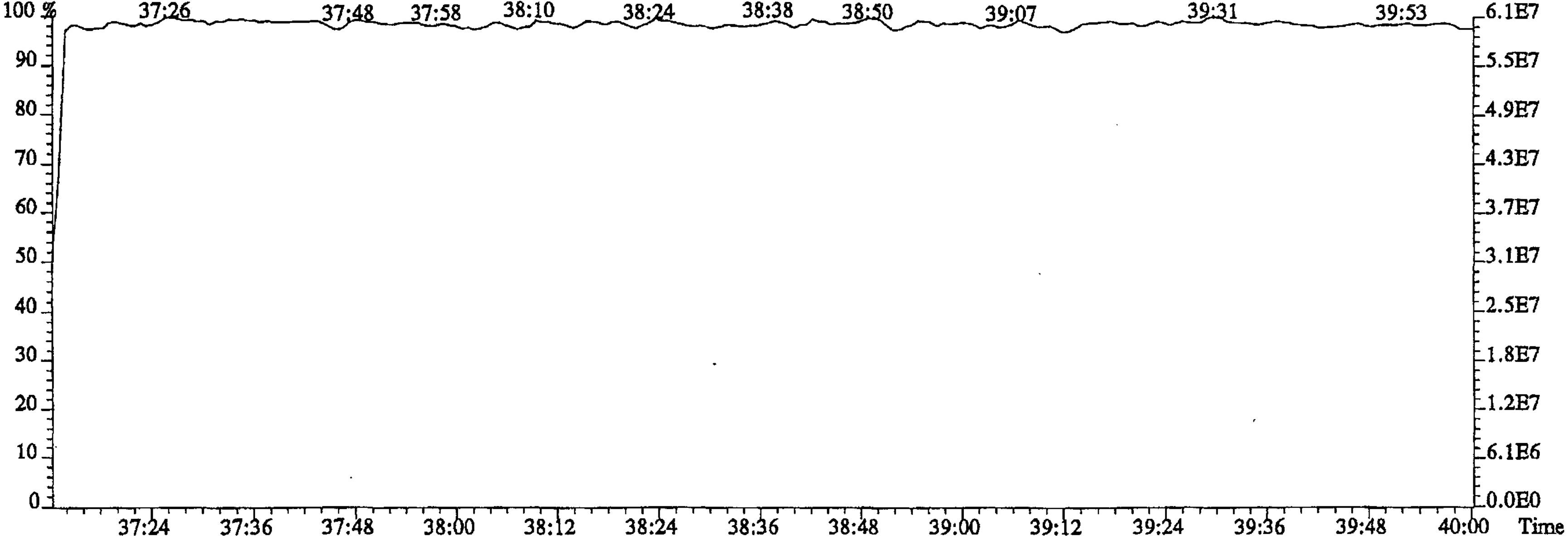


File:21JL10A4D5 #1-227 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES

454.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

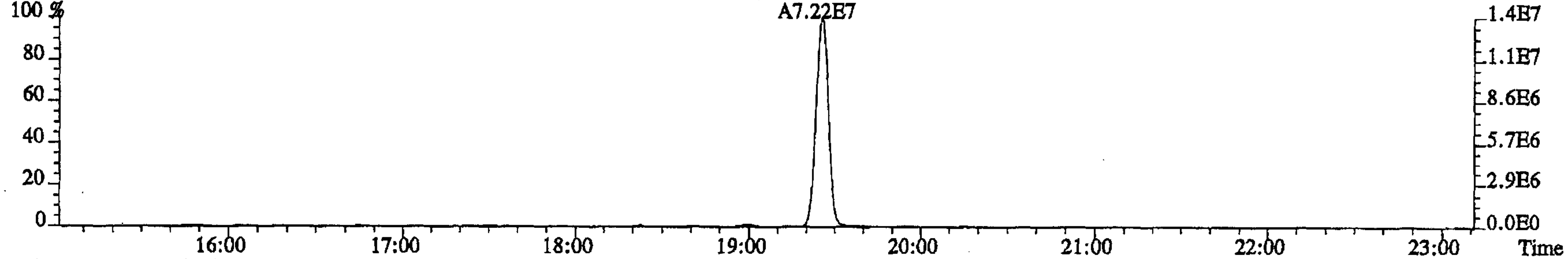


442.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

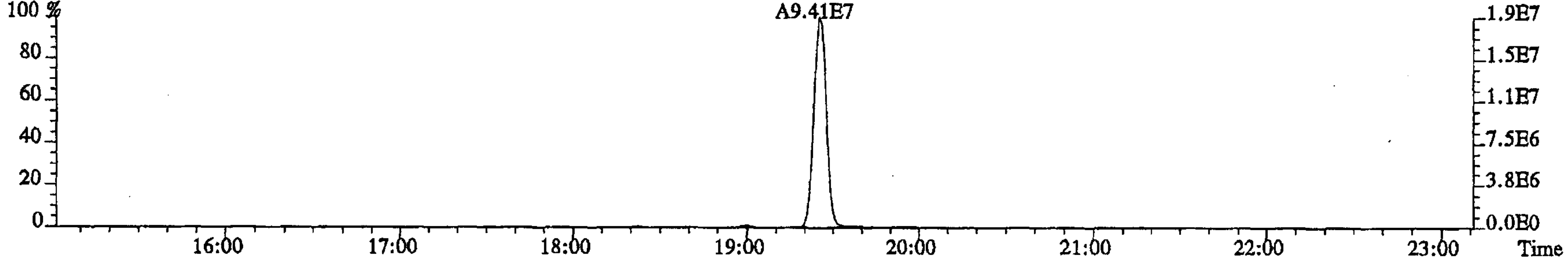


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES

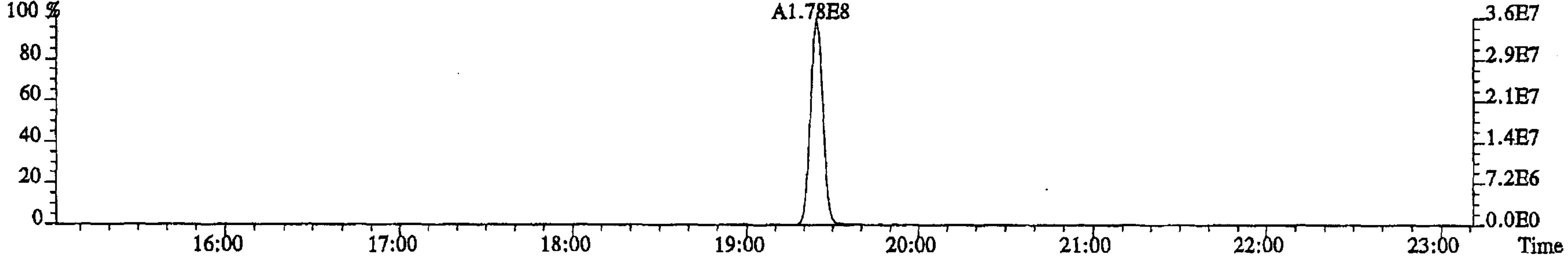
303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3860.0,1.00%,F,T)



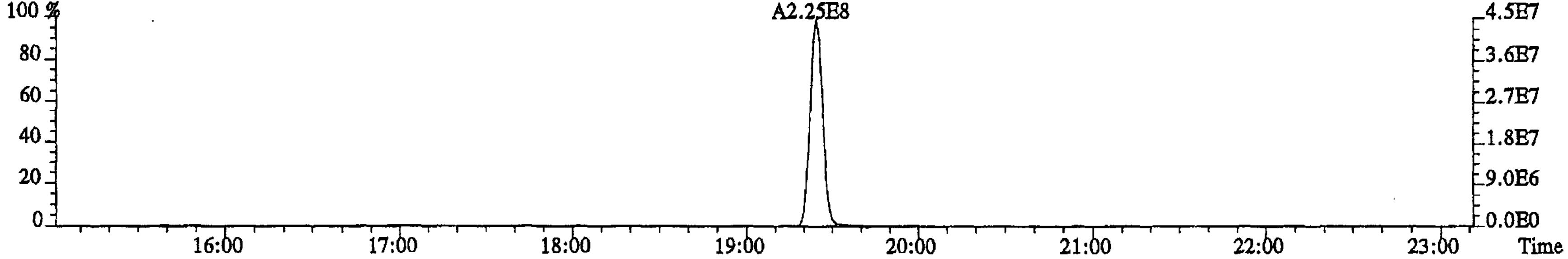
305.8987 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4728.0,1.00%,F,T)



315.9419 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5268.0,1.00%,F,T)

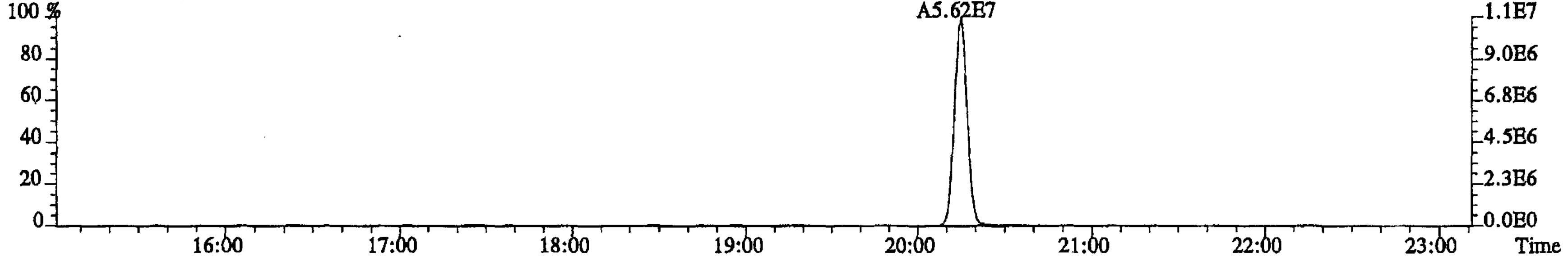


317.9389 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7948.0,1.00%,F,T)

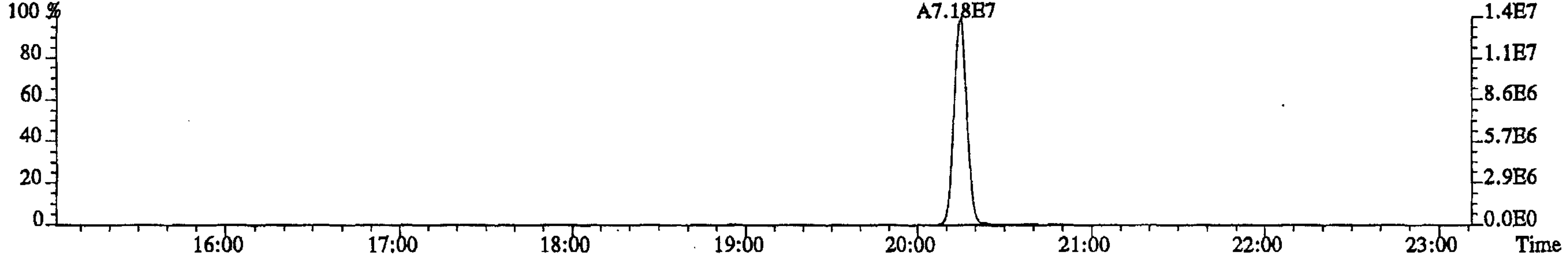


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES

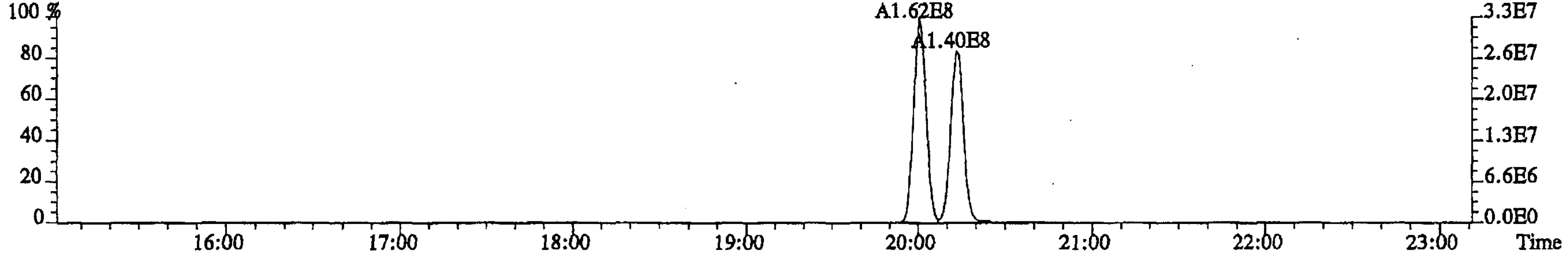
319.8965 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3940.0,1.00%,F,T)



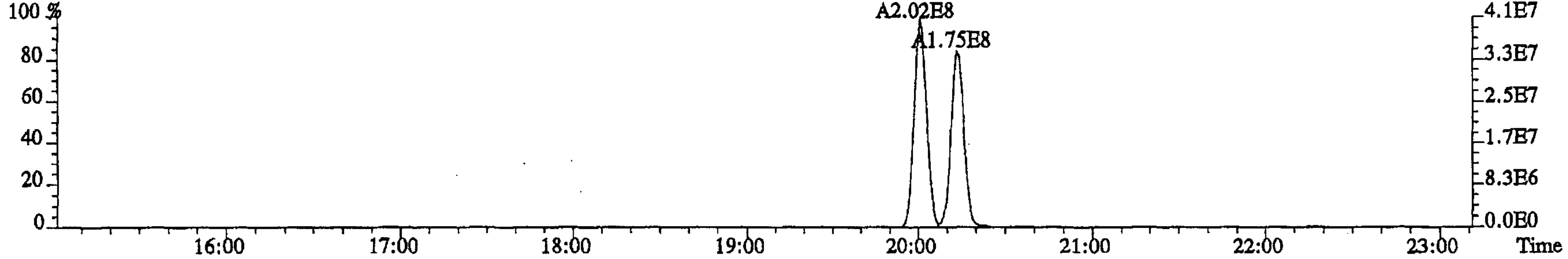
321.8936 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3756.0,1.00%,F,T)



331.9368 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14784.0,1.00%,F,T)

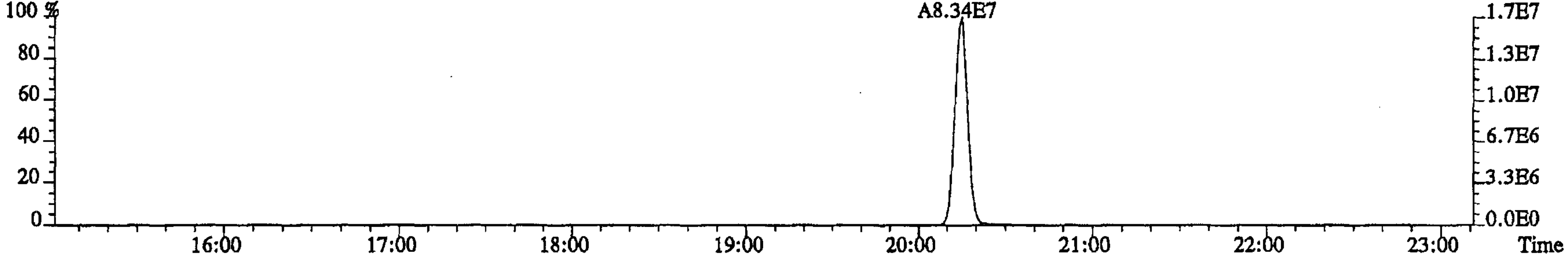


333.9339 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6716.0,1.00%,F,T)

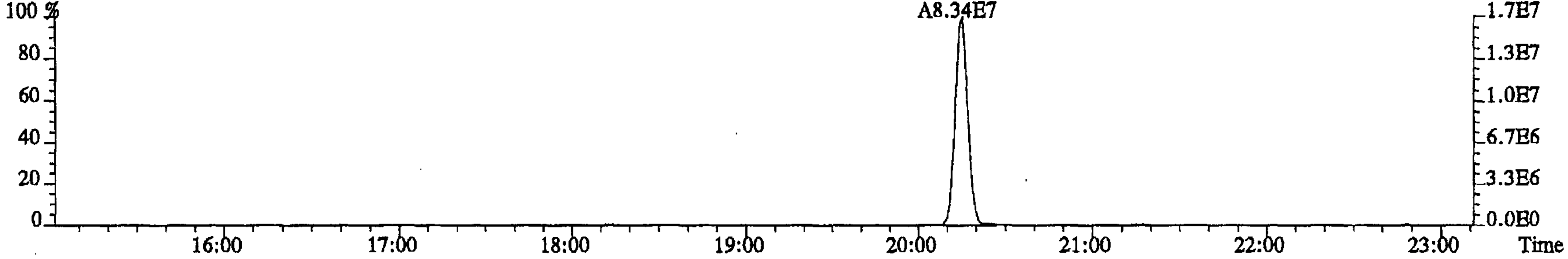


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES

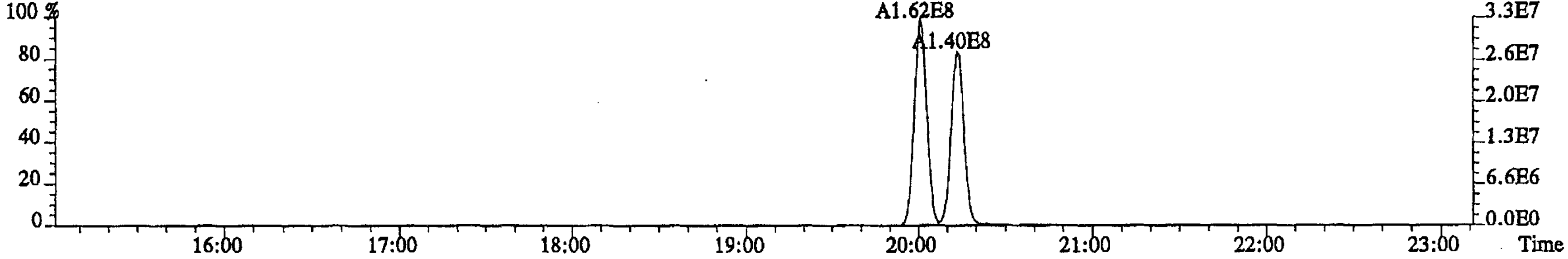
327.8847 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2328.0,1.00%,F,T)



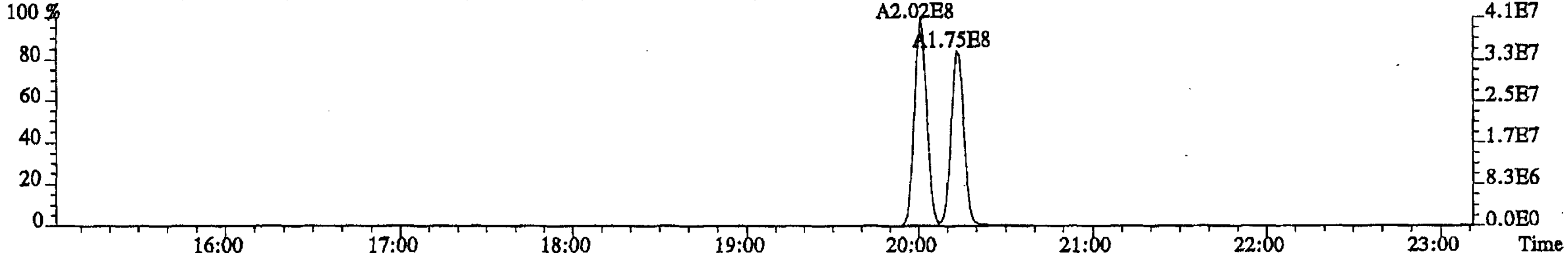
327.8847 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2328.0,1.00%,F,T)



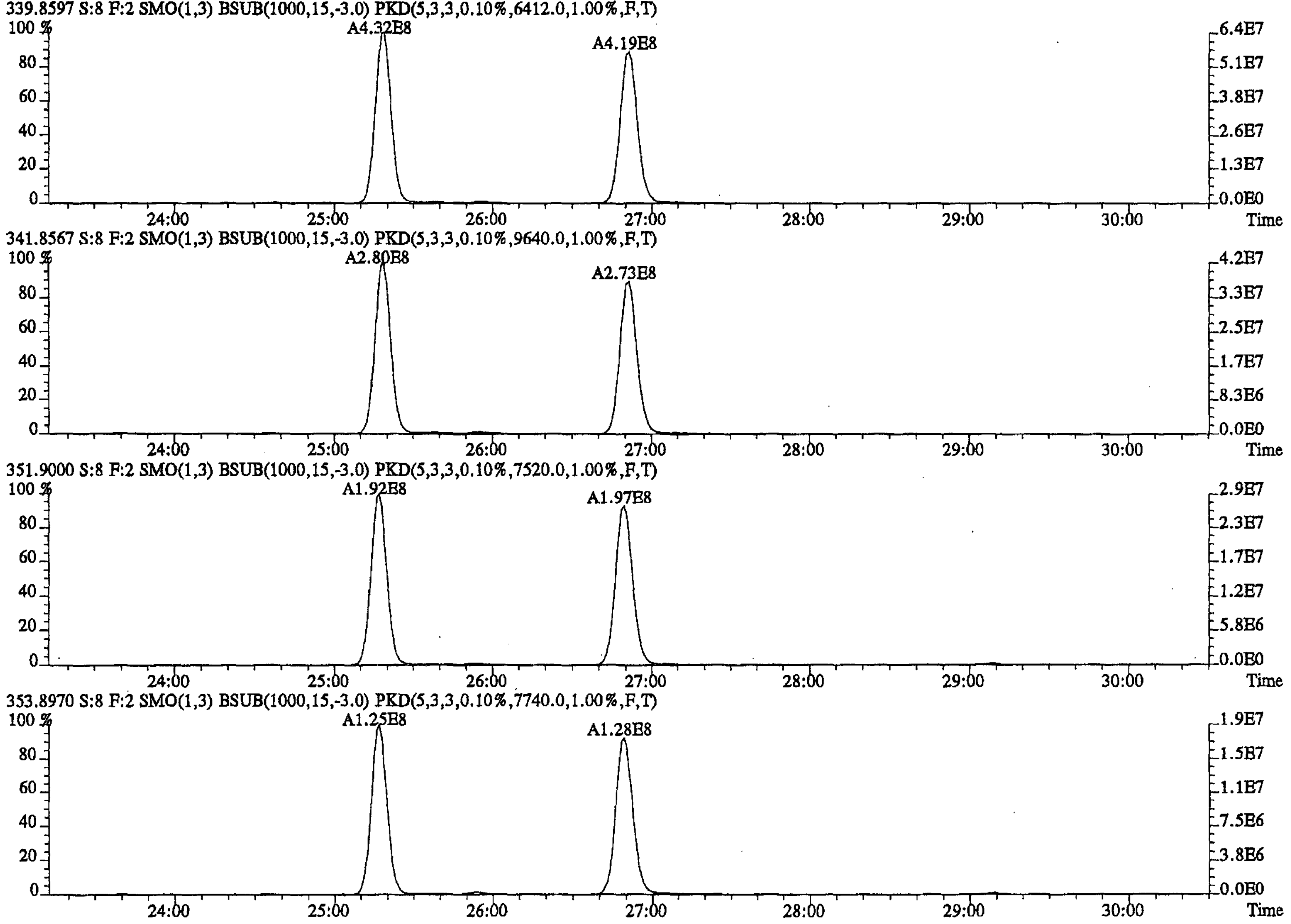
331.9368 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14784.0,1.00%,F,T)



333.9339 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6716.0,1.00%,F,T)



File:21JL10A4D5 #1-469 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES



339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6412.0,1.00%,F,T)

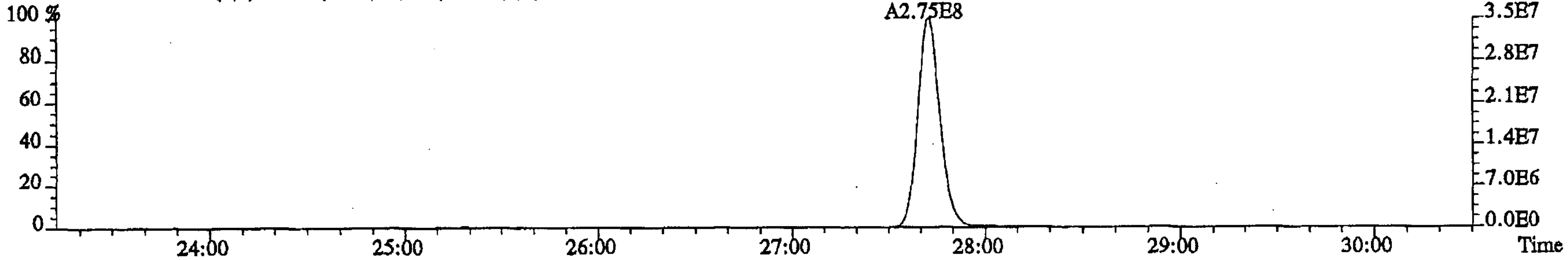
341.8567 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9640.0,1.00%,F,T)

351.9000 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7520.0,1.00%,F,T)

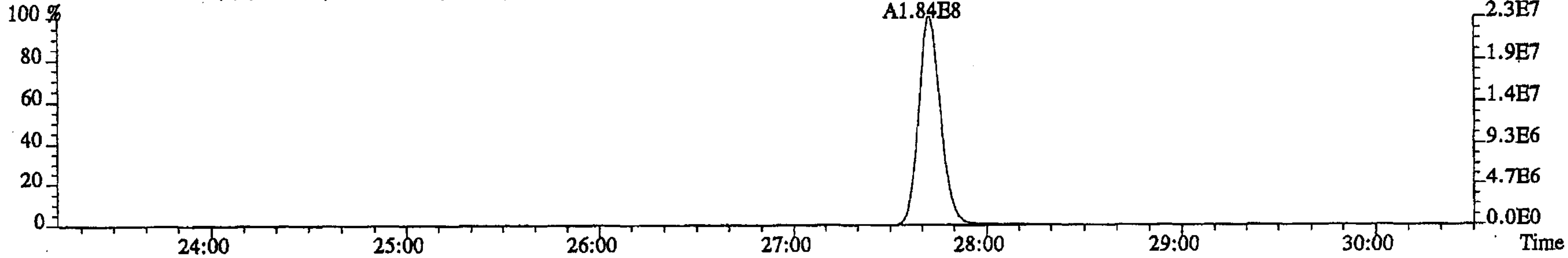
353.8970 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7740.0,1.00%,F,T)

File:21JL10A4D5 #1-469 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES

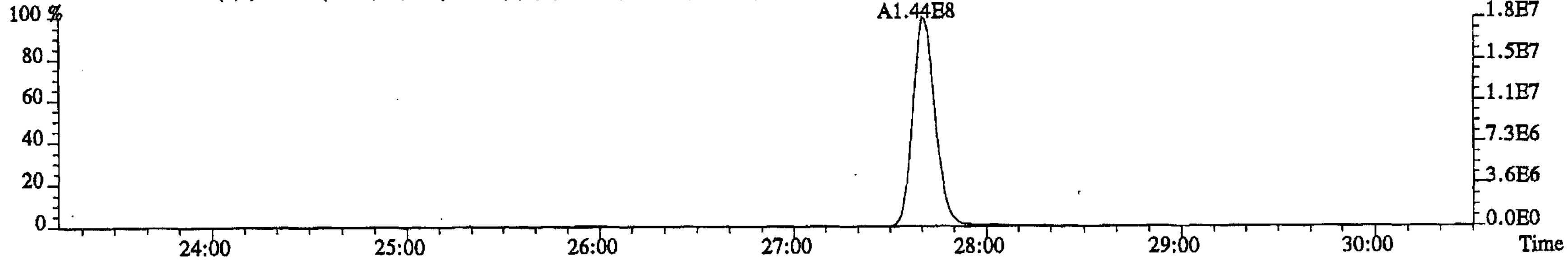
355.8546 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6468.0,1.00%,F,T)



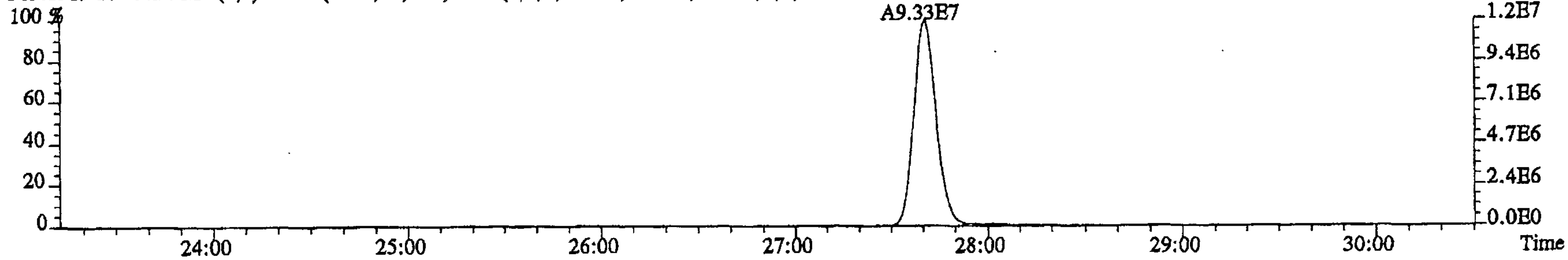
357.8516 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4164.0,1.00%,F,T)



367.8949 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5096.0,1.00%,F,T)

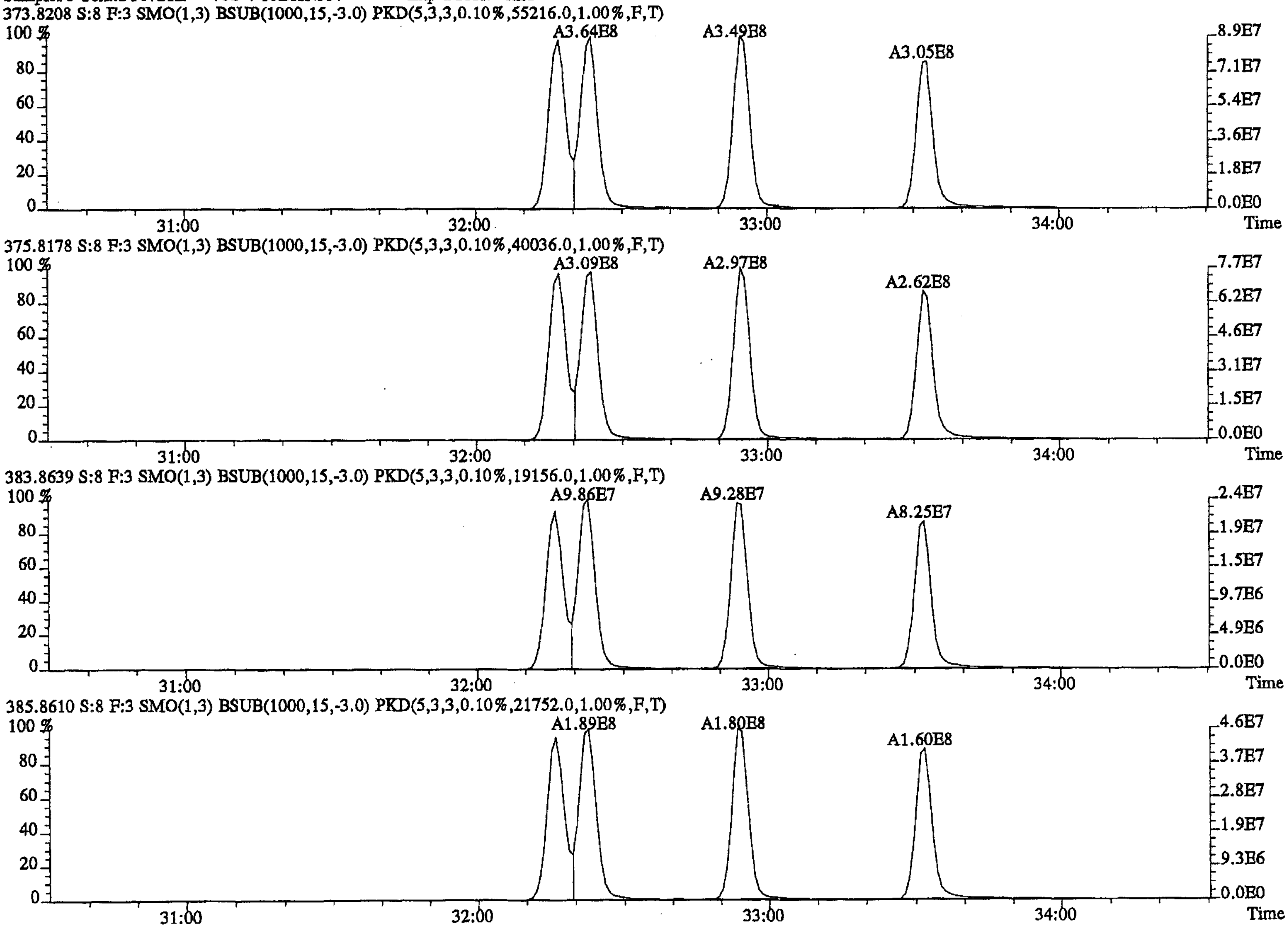


369.8919 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3540.0,1.00%,F,T)



File:21JL10A4D5 #1-287 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES

373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,55216.0,1.00%,F,T)

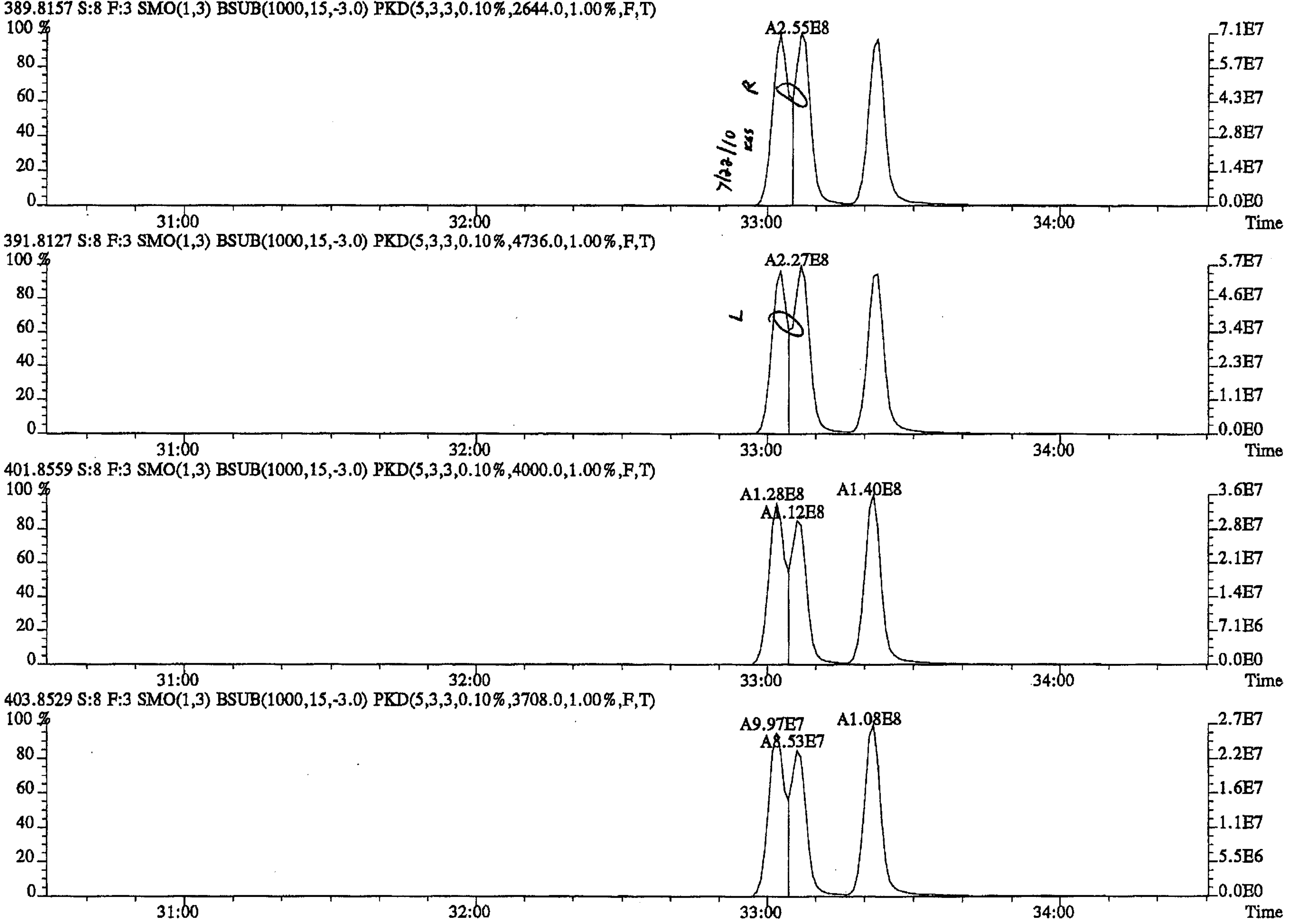


375.8178 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,40036.0,1.00%,F,T)

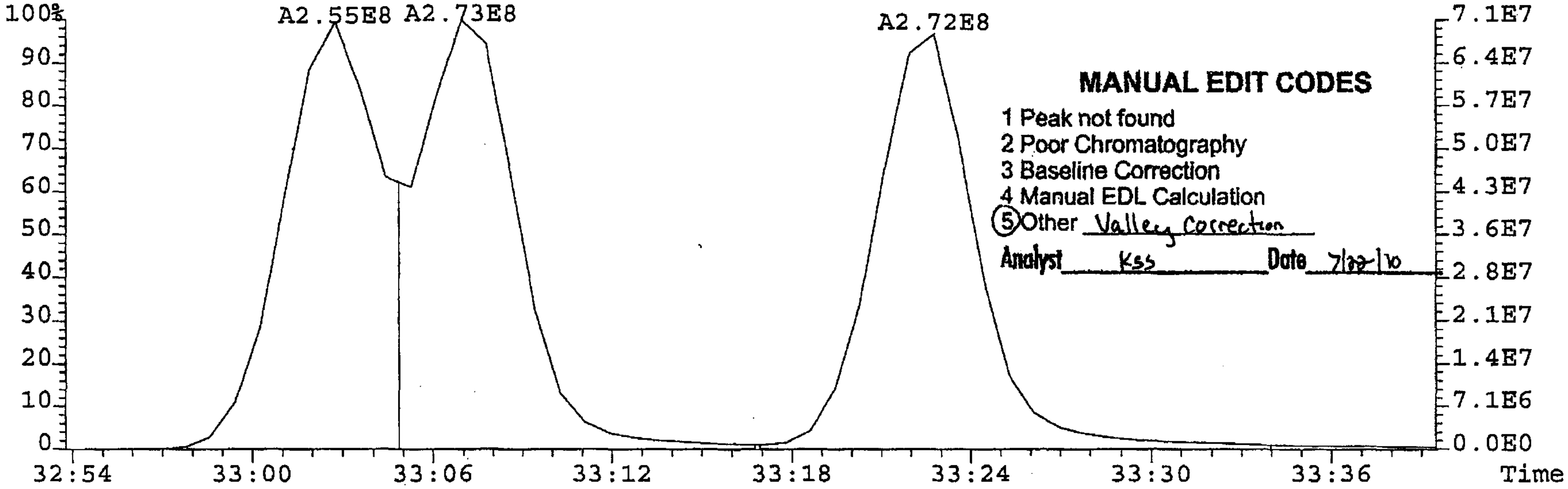
383.8639 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19156.0,1.00%,F,T)

385.8610 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21752.0,1.00%,F,T)

File:21JL10A4D5 #1-287 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES



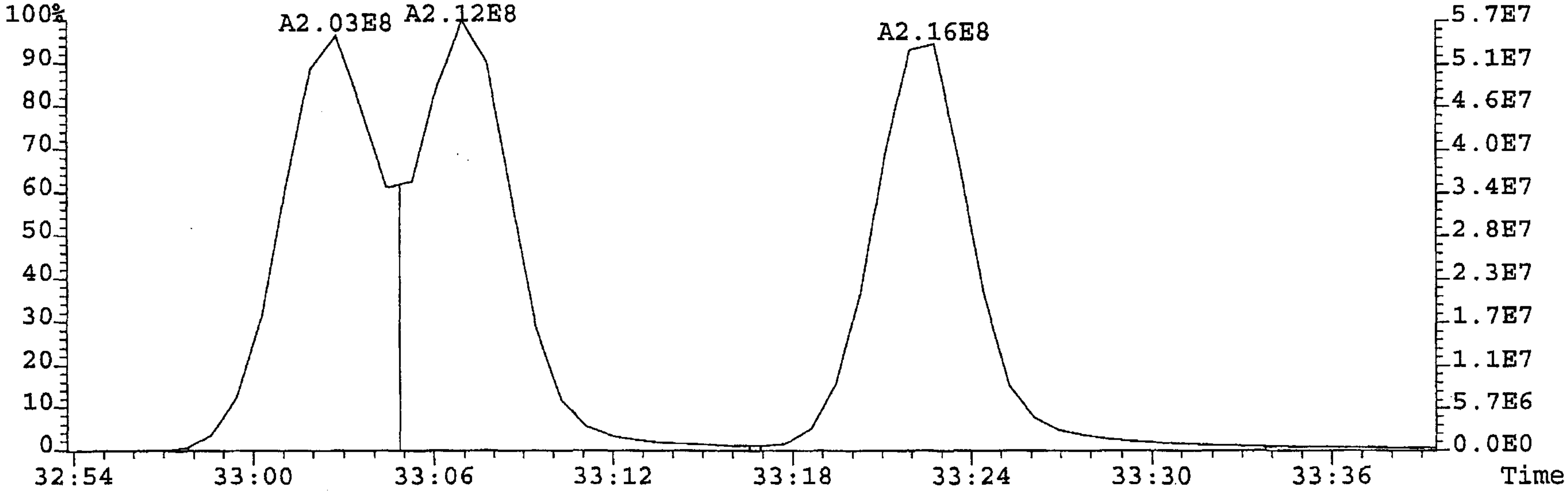
File:21JL10A4D5 #1-287 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES
389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2644.0,1.00%,F,T)



MANUAL EDIT CODES

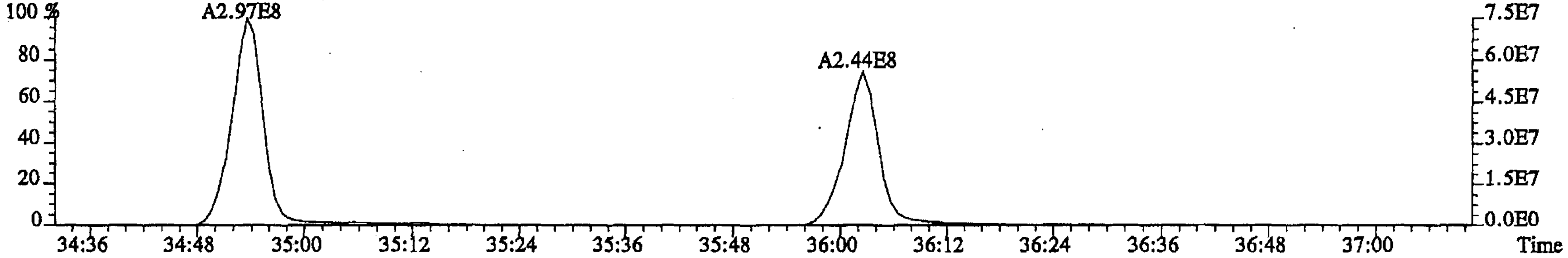
1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
⑤Other Valley Correction
Analyst KSS **Date** 7/22/10

391.8127 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4736.0,1.00%,F,T)

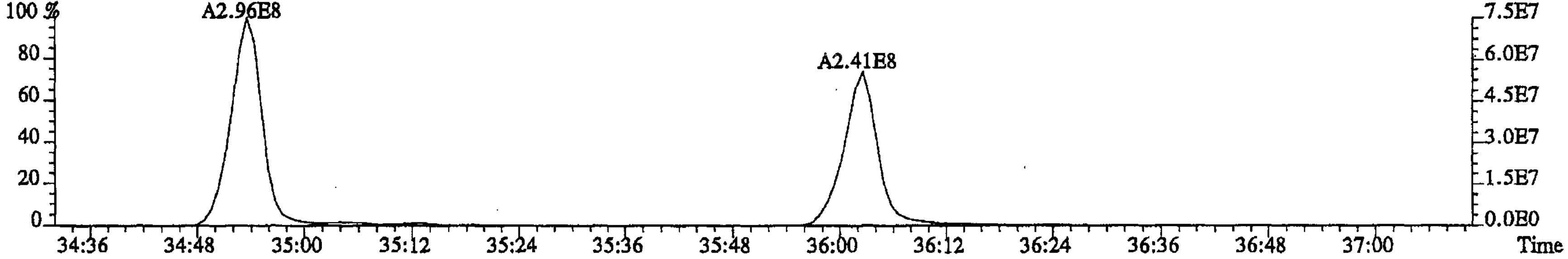


File:21JL10A4D5 #1-201 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES

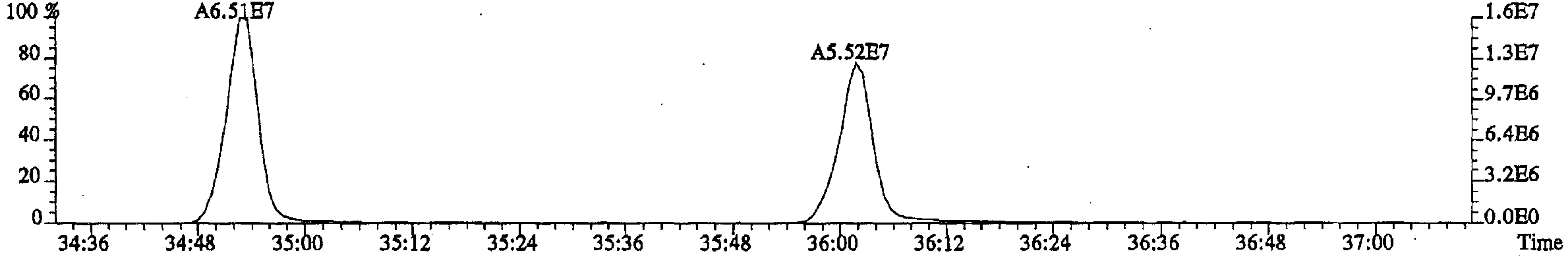
407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,41352.0,1.00%,F,T)



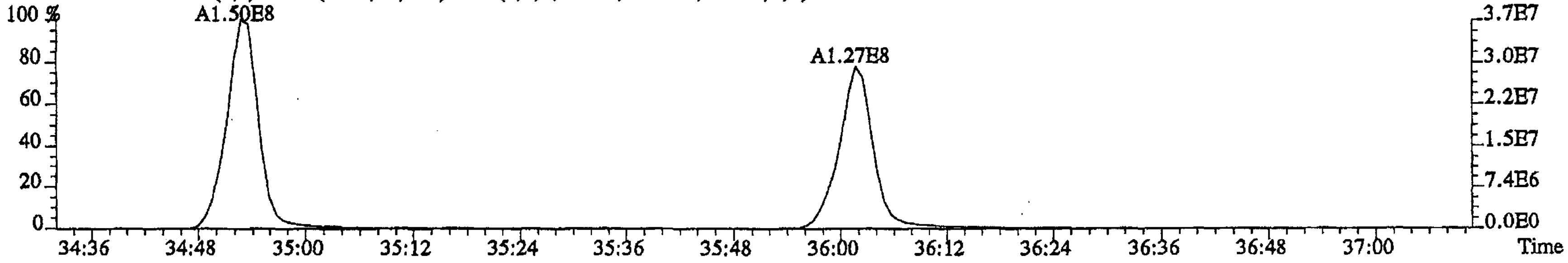
409.7789 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,29196.0,1.00%,F,T)



417.8253 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13580.0,1.00%,F,T)

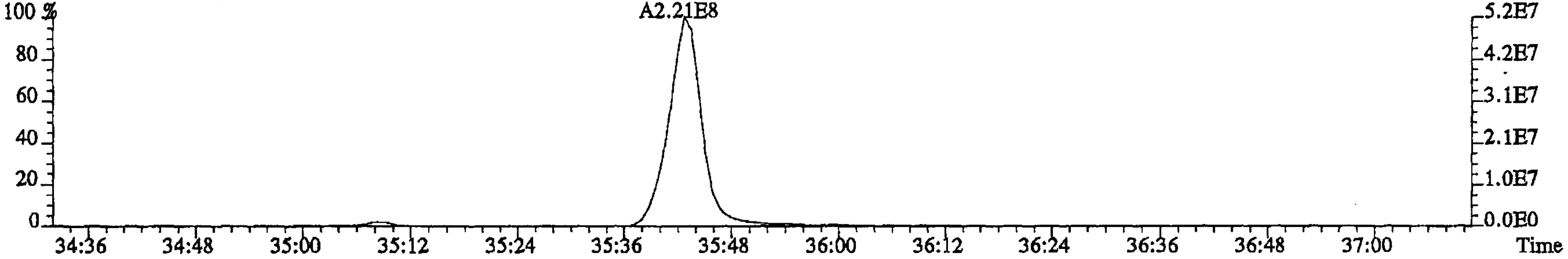


419.8220 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23056.0,1.00%,F,T)

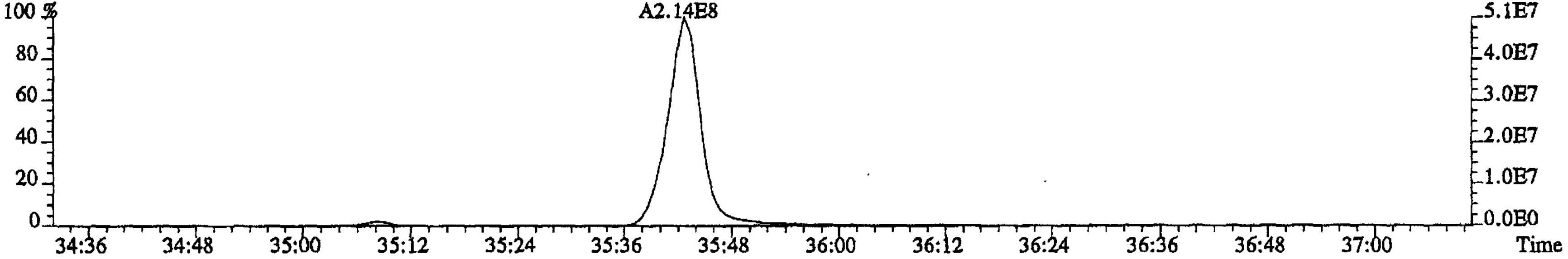


File:21JL10A4D5 #1-201 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES

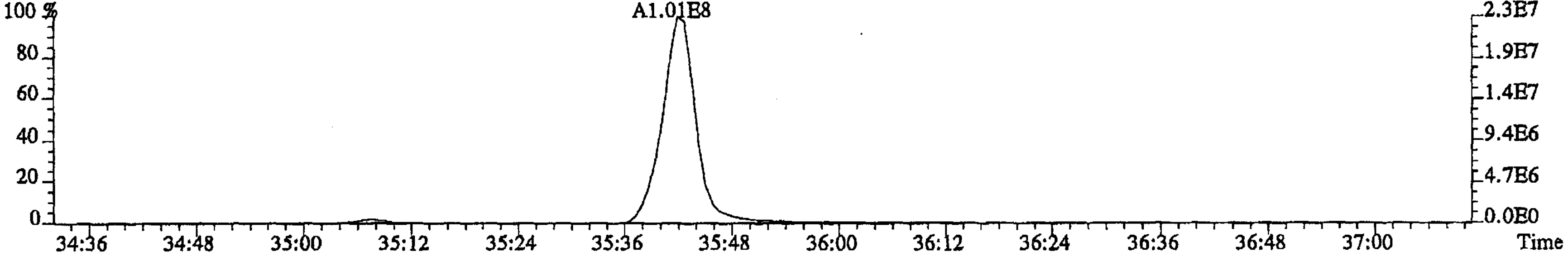
423.7766 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14020.0,1.00%,F,T)



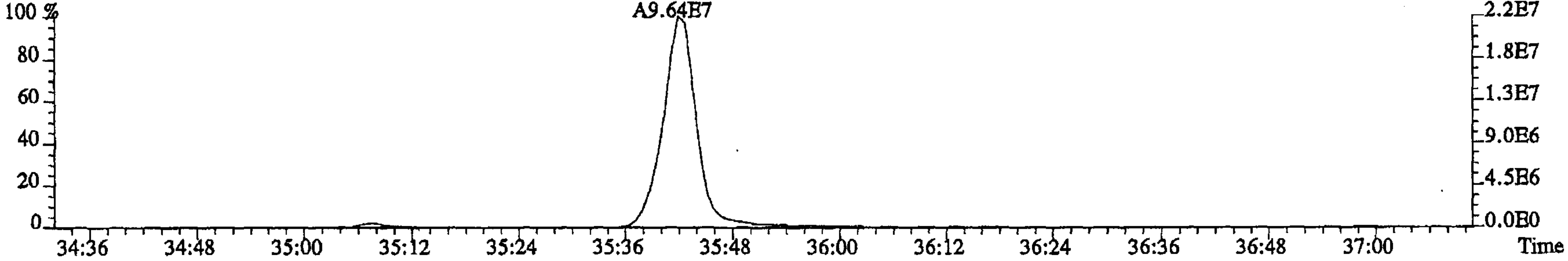
425.7737 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12016.0,1.00%,F,T)



435.8169 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20348.0,1.00%,F,T)

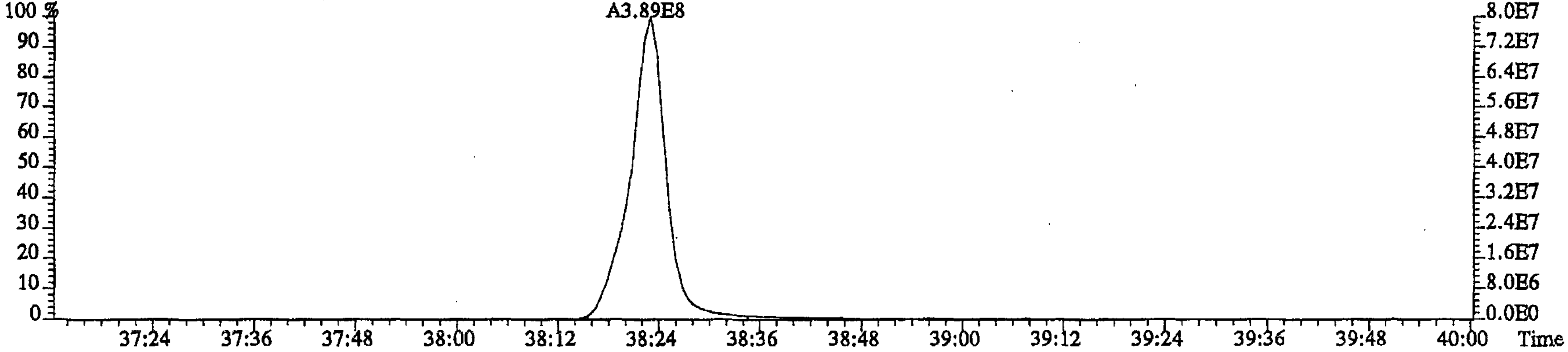


437.8140 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14984.0,1.00%,F,T)

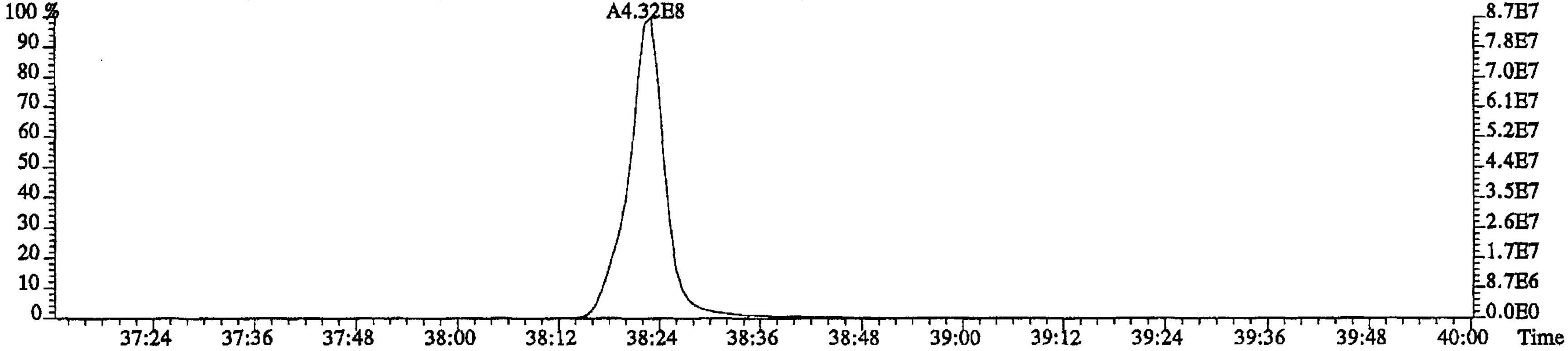


File:21JL10A4D5 #1-227 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES

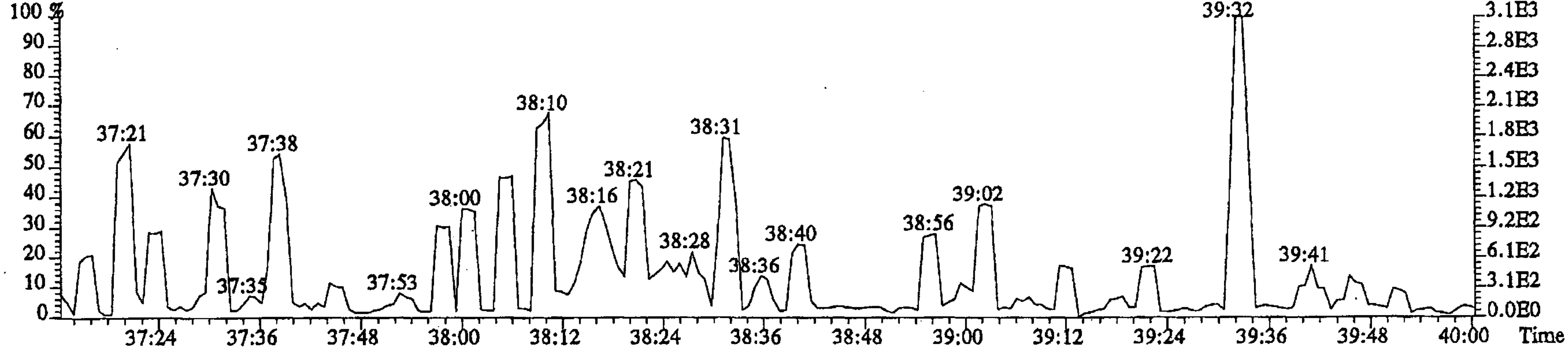
441.7428 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12968.0,1.00%,F,T)



443.7399 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11524.0,1.00%,F,T)

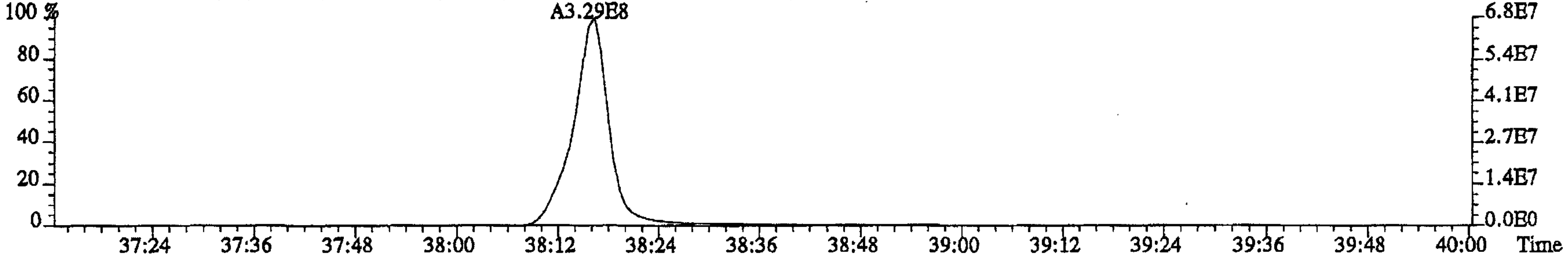


513.6775 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,112.0,1.00%,F,T)

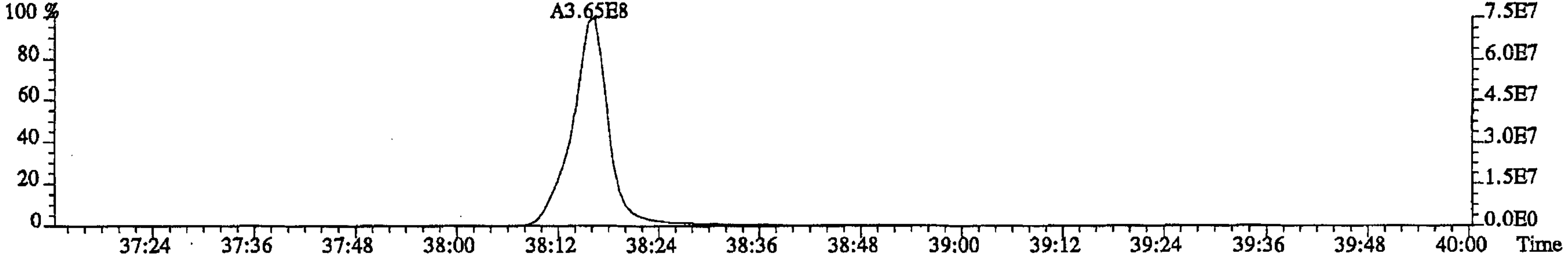


File:21JL10A4D5 #1-227 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES

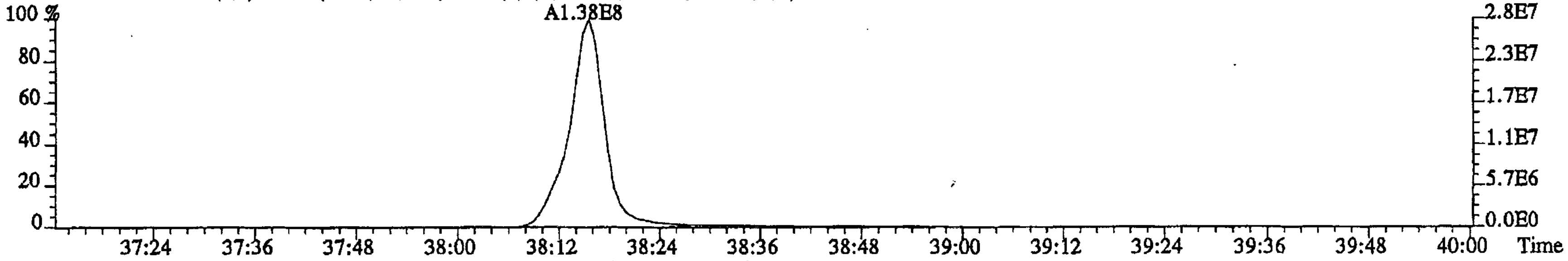
457.7377 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8120.0,1.00%,F,T)



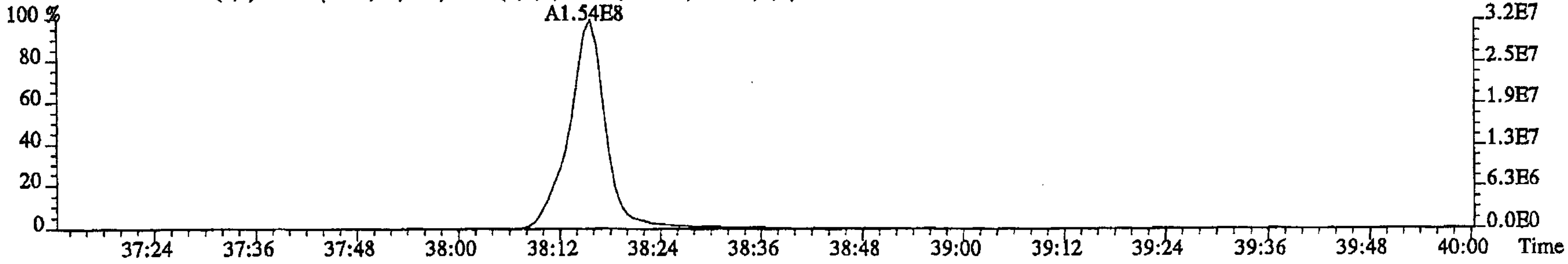
459.7348 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14416.0,1.00%,F,T)

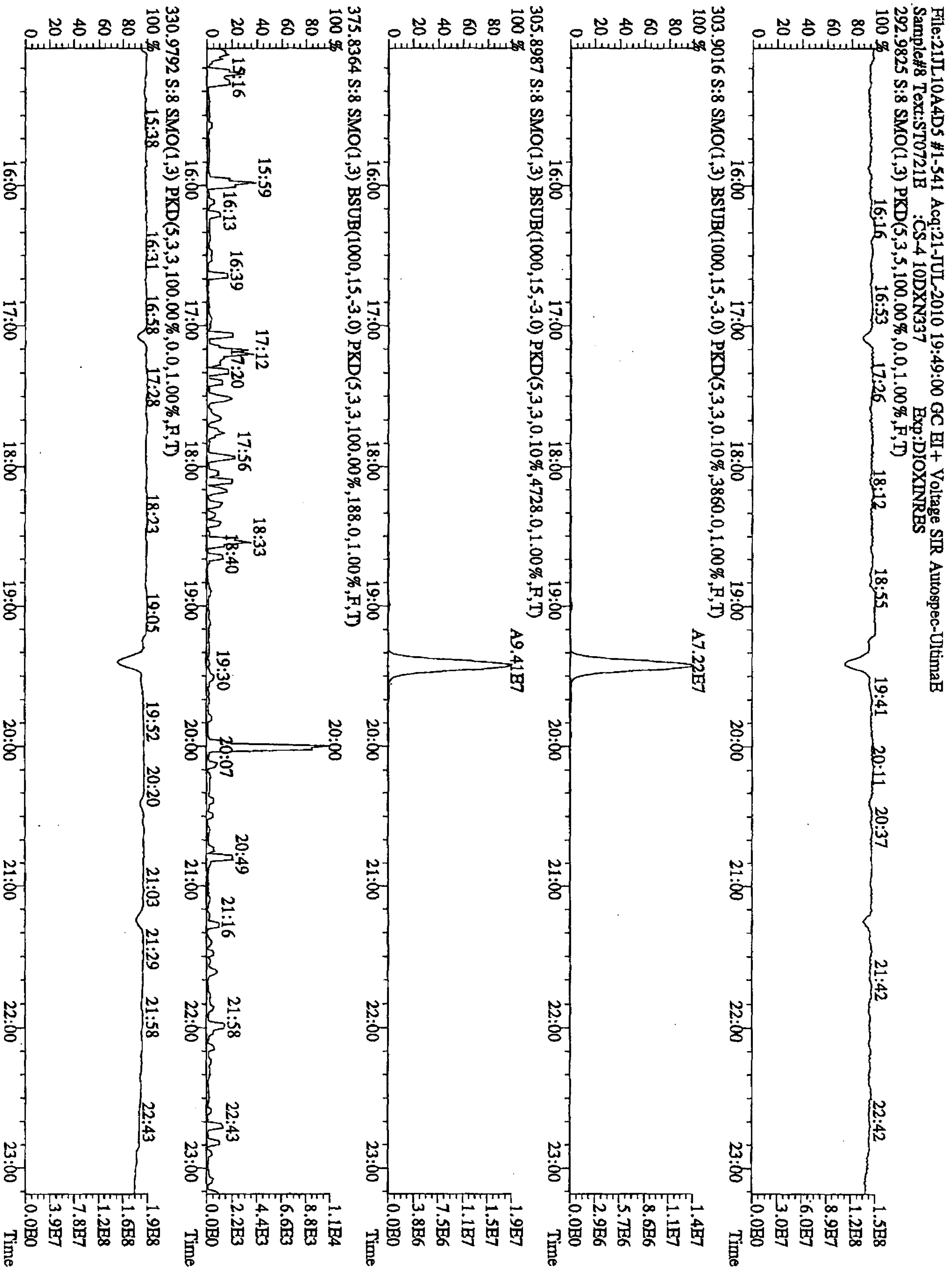


469.7779 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8496.0,1.00%,F,T)

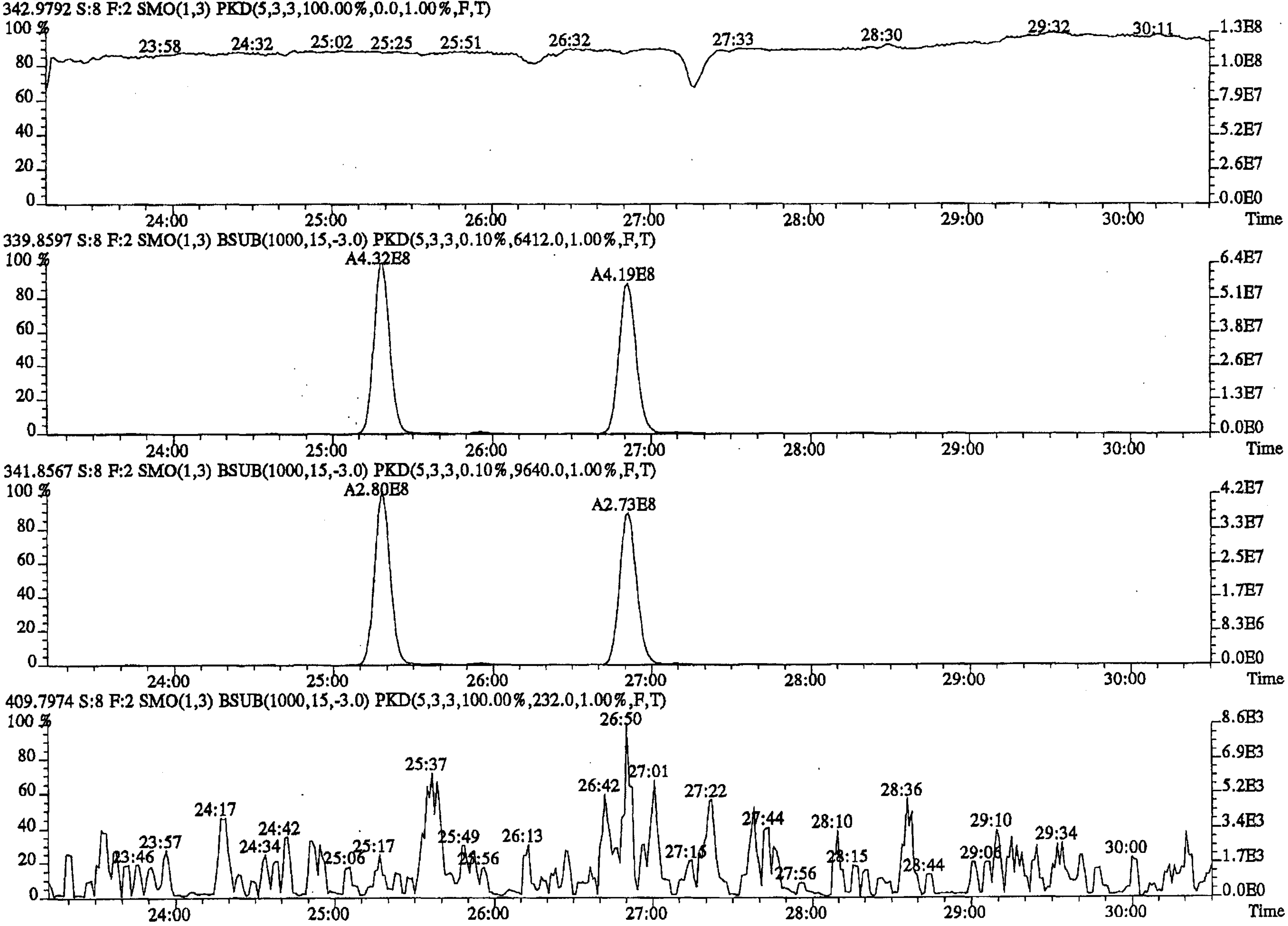


471.7750 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4176.0,1.00%,F,T)

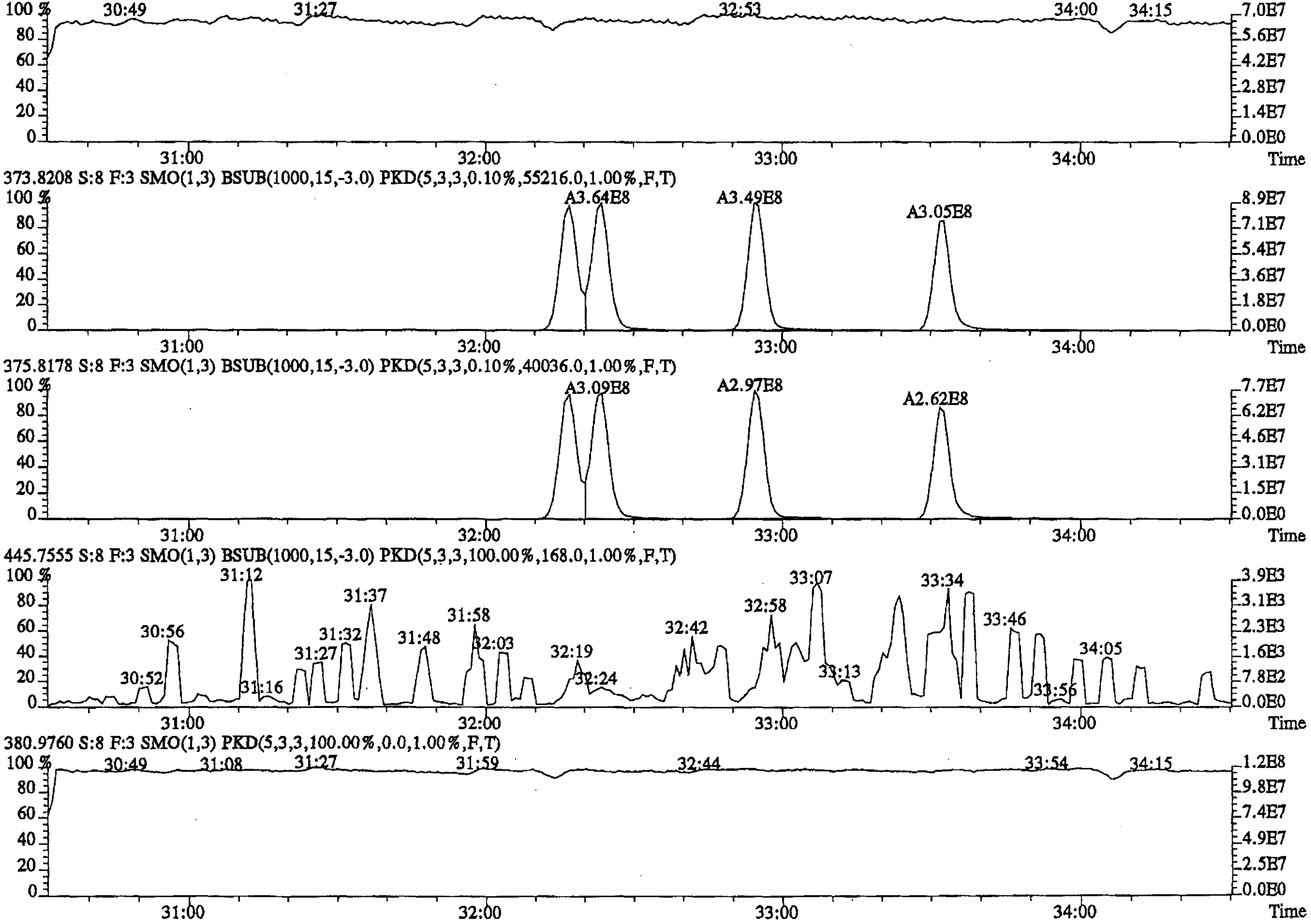



File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES
292.9825 S:8 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)
16:16
16:53
17:26
18:12
18:55
19:41
20:11
20:37
21:42
22:42
1.5E8
303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3860.0,1.00%,F,T)
A7.22E7
1.4E7
305.8987 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4728.0,1.00%,F,T)
A9.41E7
1.9E7
375.8364 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,188.0,1.00%,F,T)
15:16
15:59
16:13
16:39
17:12
17:20
17:56
18:33
18:40
19:30
20:00
20:07
20:49
21:16
21:58
22:43
1.1E4
330.9792 S:8 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
15:38
16:31
16:58
17:28
18:23
19:05
19:52
20:20
21:03
21:29
21:58
22:43
1.9E8
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Time

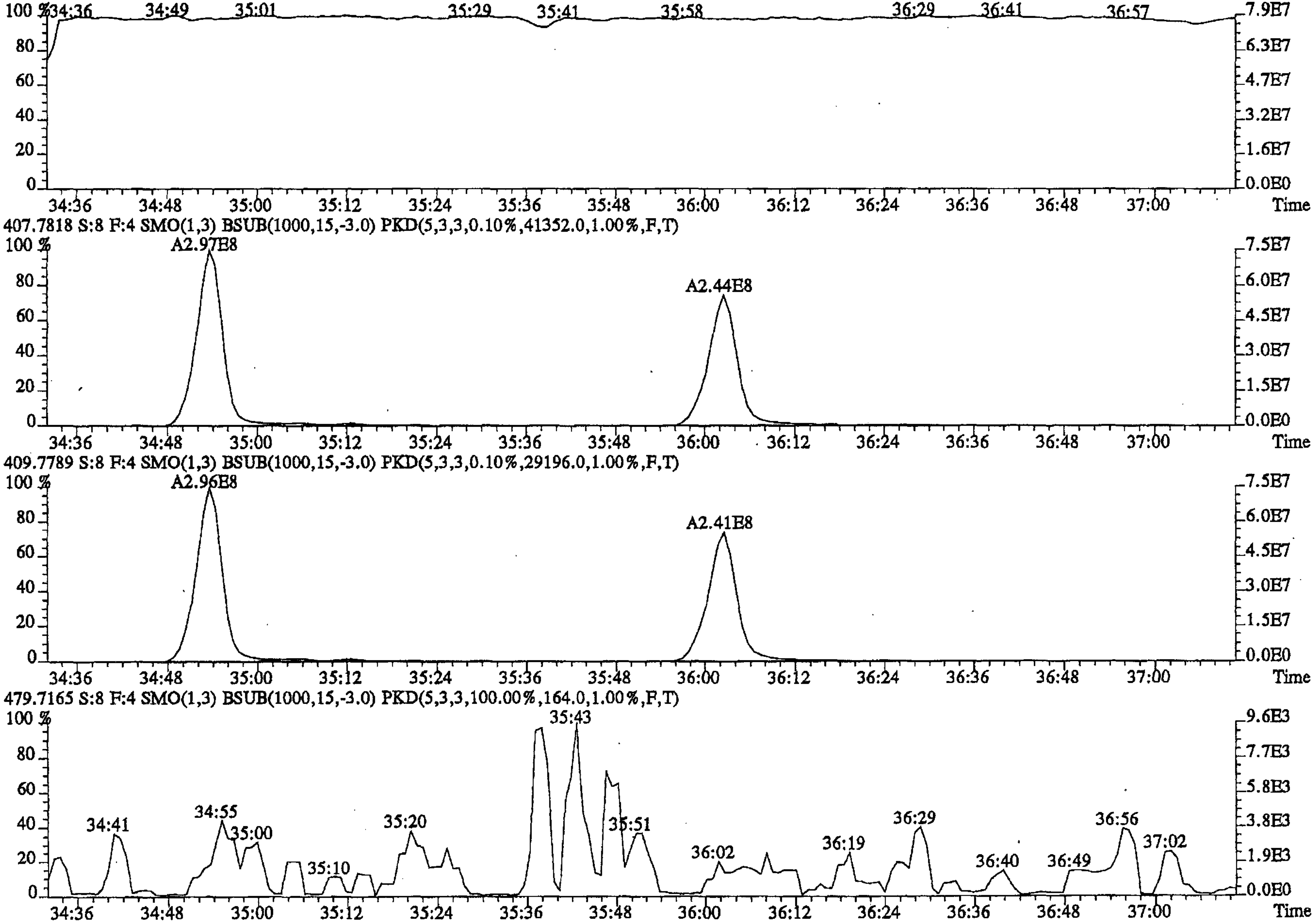
File:21JL10A4D5 #1-469 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES



File:21JL10A4D5 #1-287 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES
392.9760 S:8 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:21JL10A4D5 #1-201 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES

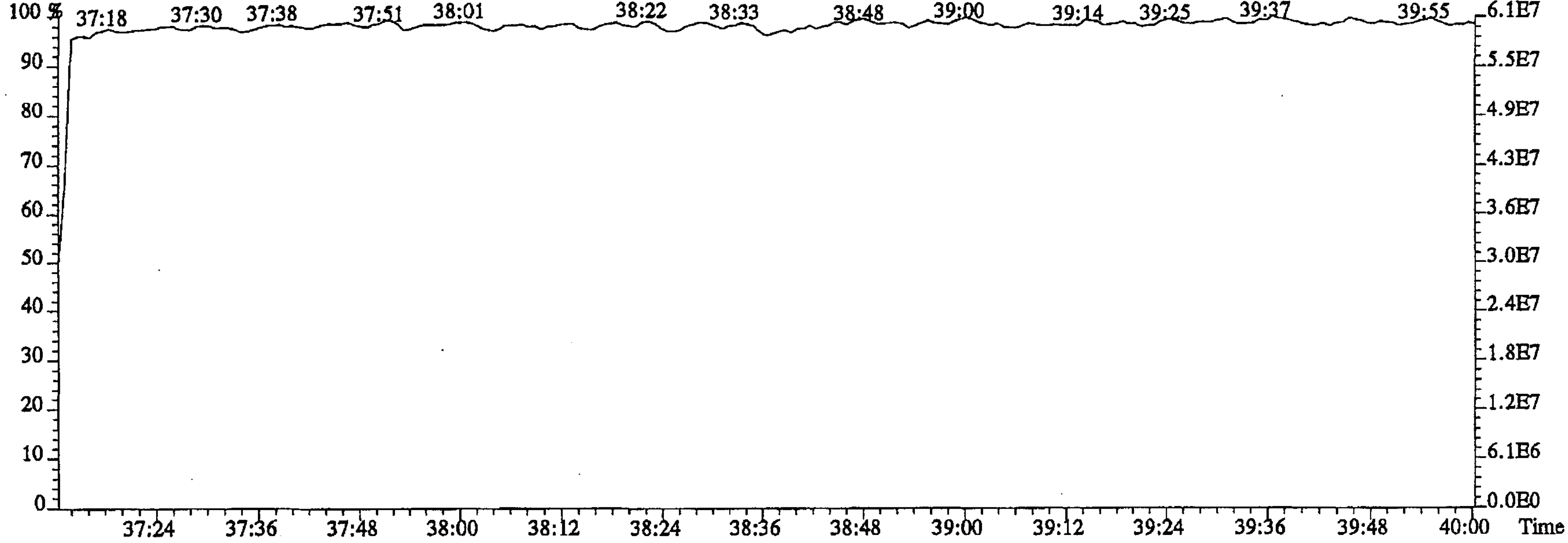

430.9728 S:8 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,41352.0,1.00%,F,T)

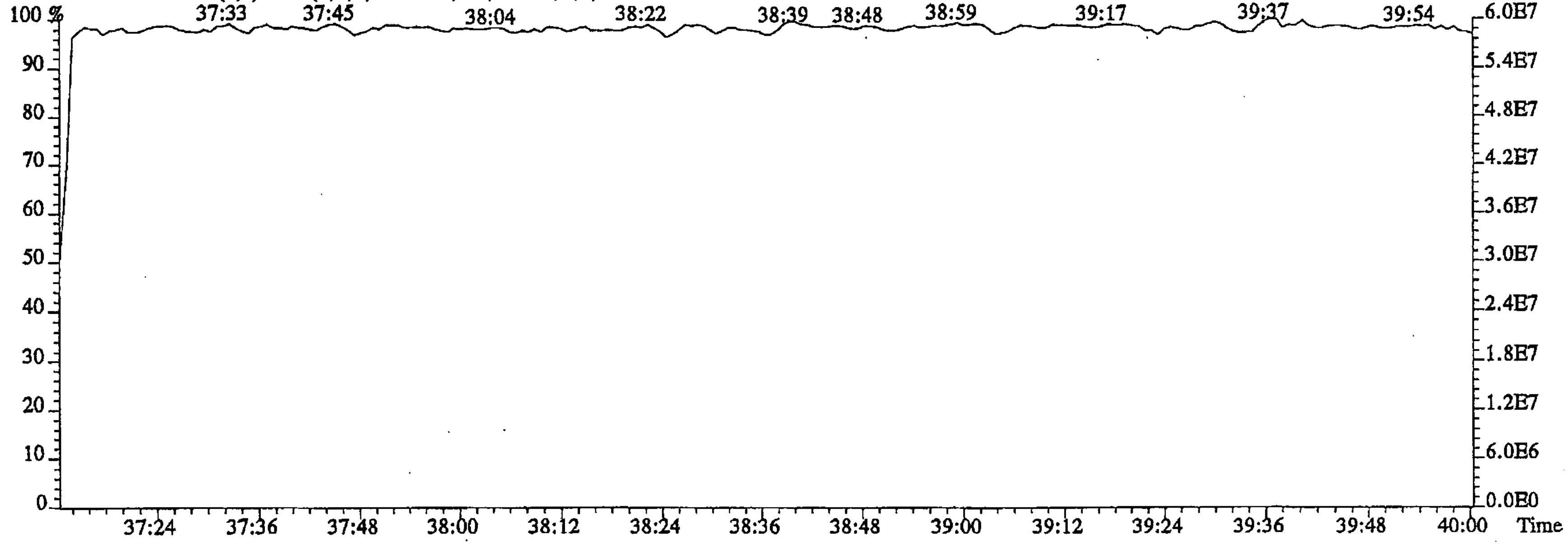
409.7789 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,29196.0,1.00%,F,T)

479.7165 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,164.0,1.00%,F,T)

File:21JL10A4D5 #1-227 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES
454.9728 S:8 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

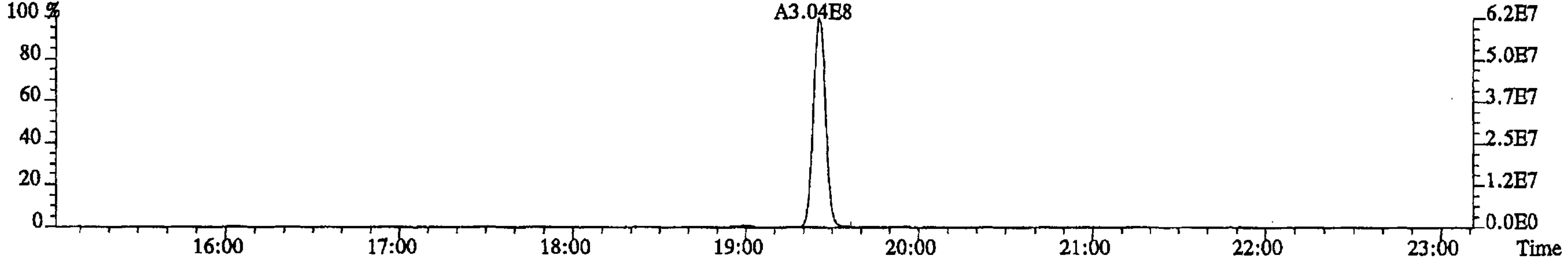


442.9728 S:8 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

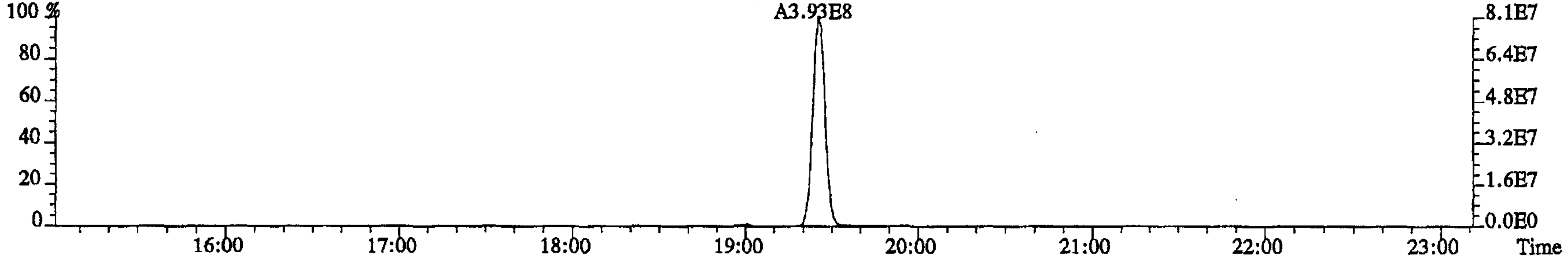


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

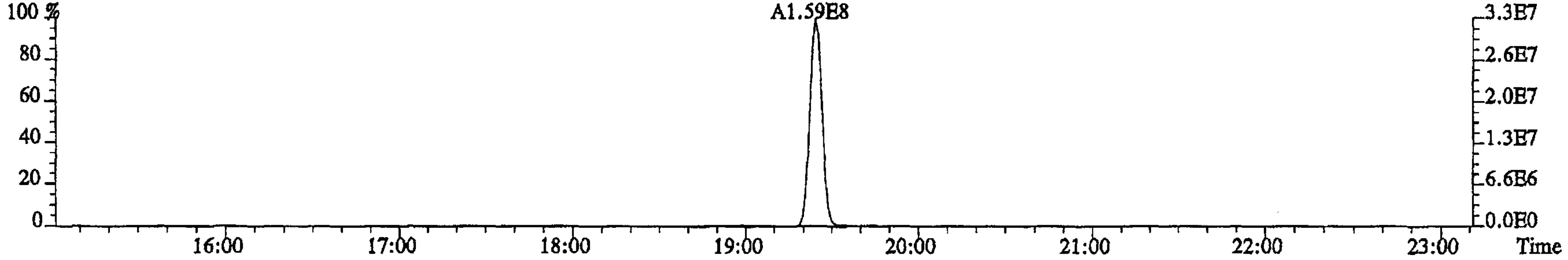
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3616.0,1.00%,F,T)



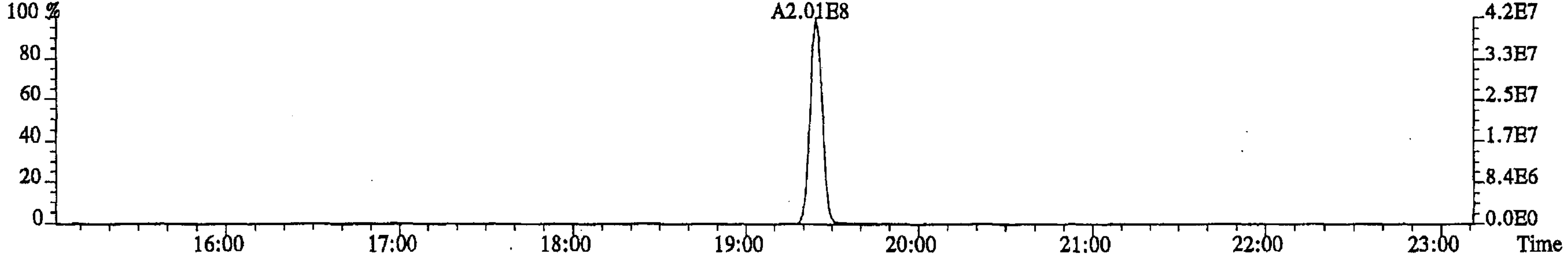
305.8987 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6604.0,1.00%,F,T)



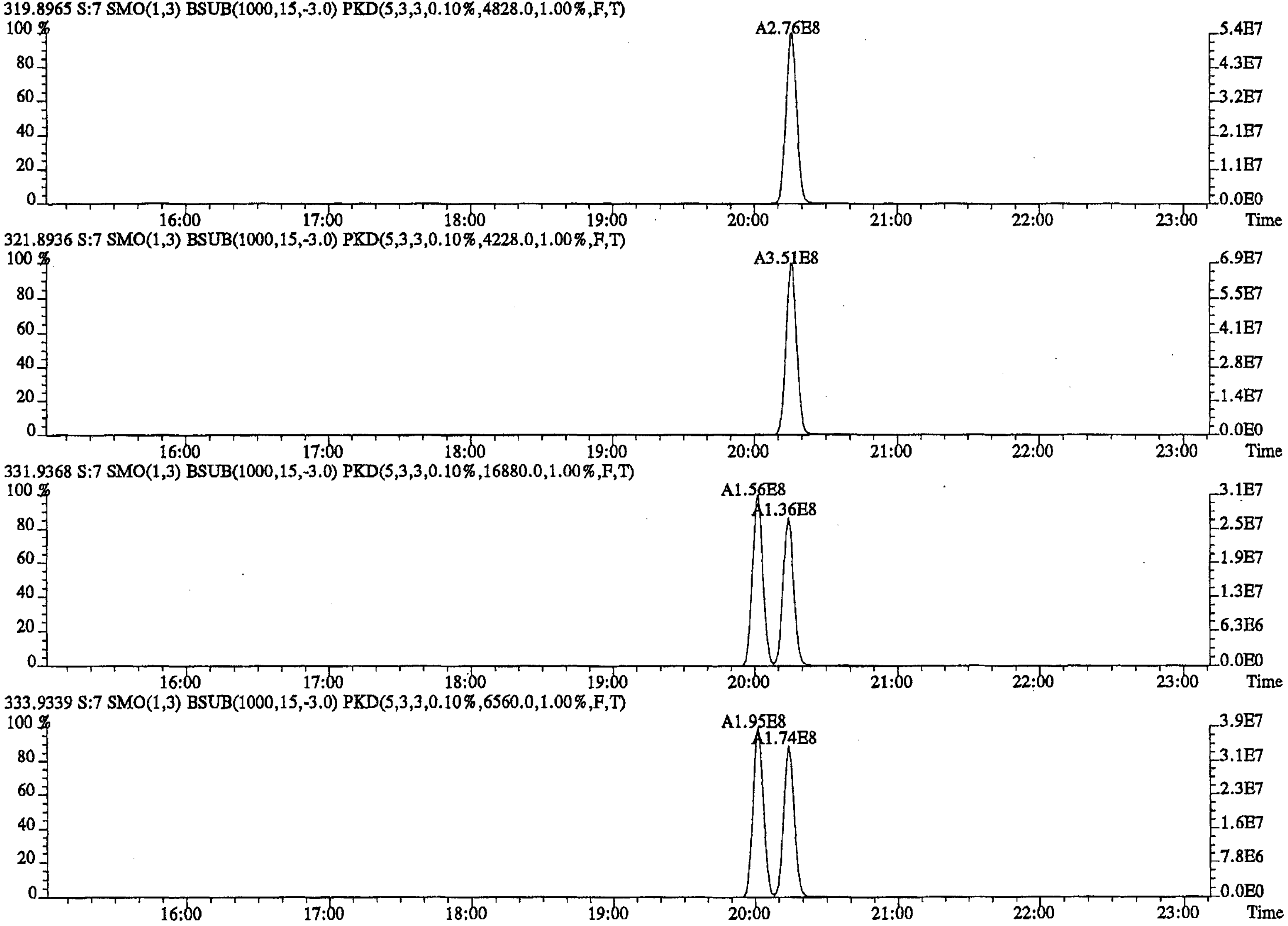
315.9419 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5588.0,1.00%,F,T)



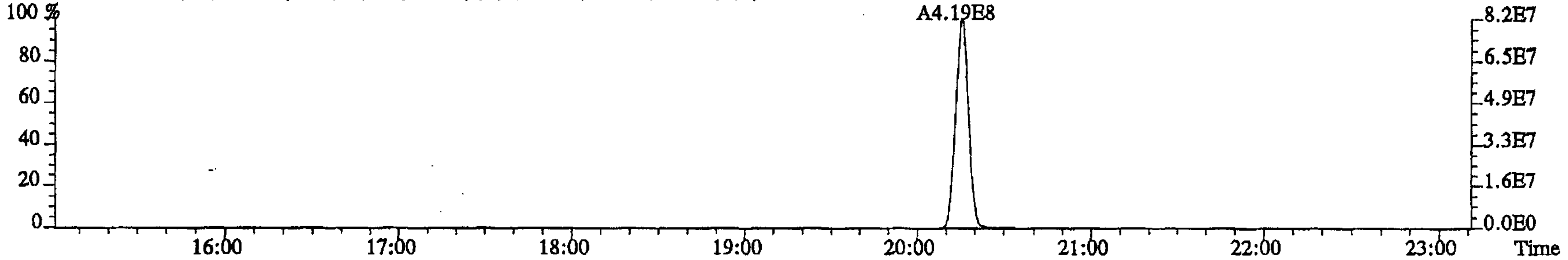
317.9389 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5580.0,1.00%,F,T)



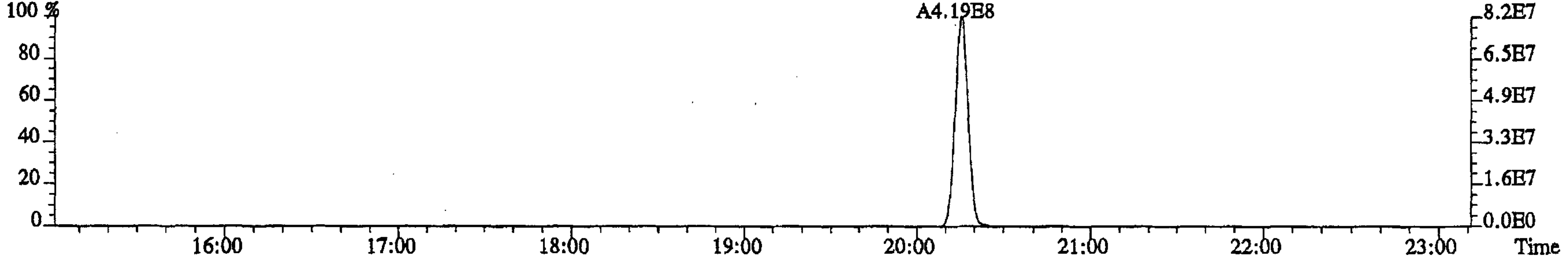
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES



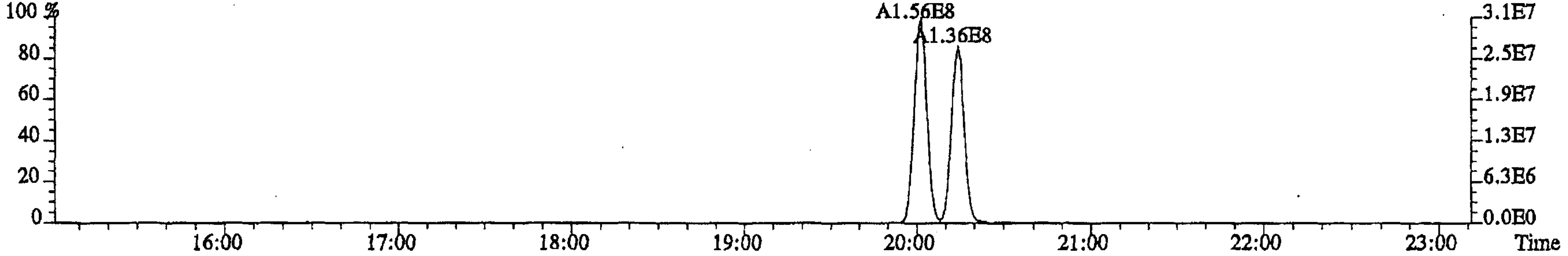
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES
327.8847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3136.0,1.00%,F,T)



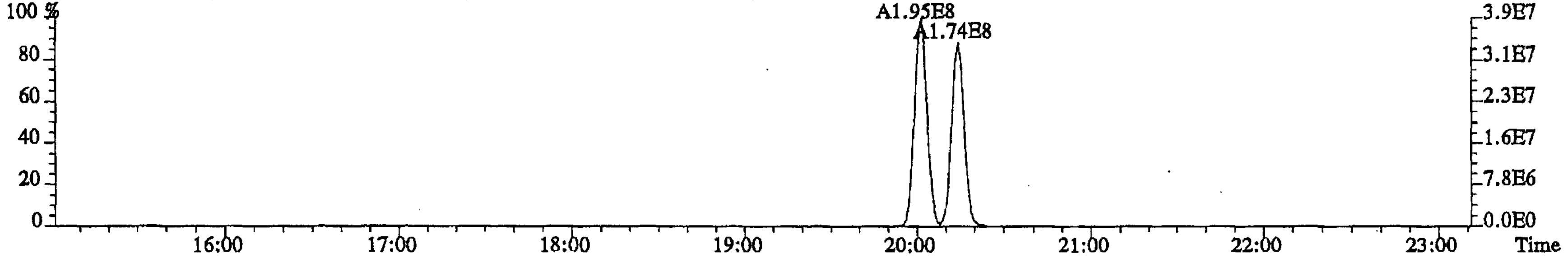
327.8847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3136.0,1.00%,F,T)



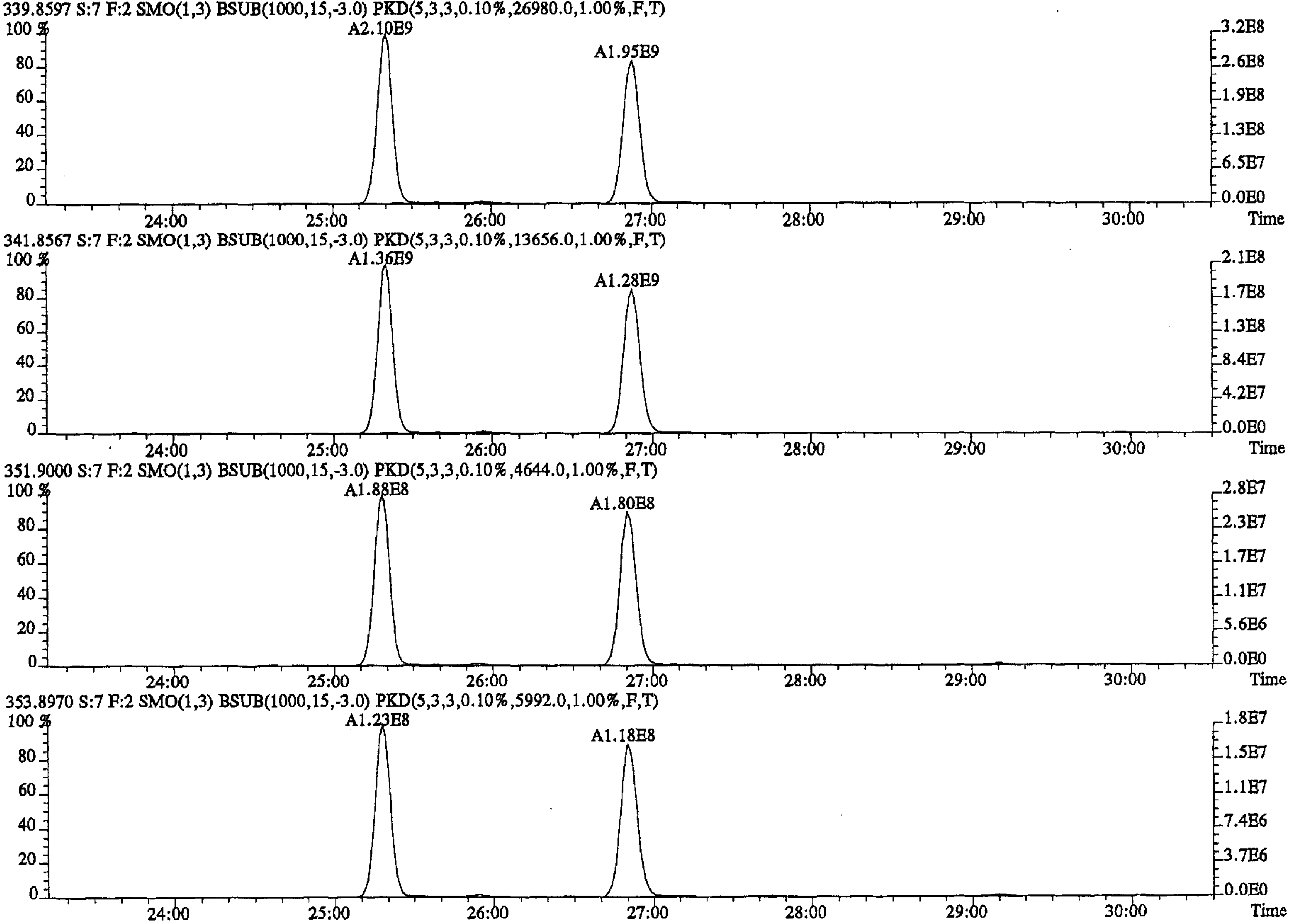
331.9368 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16880.0,1.00%,F,T)



333.9339 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6560.0,1.00%,F,T)



File:21JL10A4D5 #1-469 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES



339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26980.0,1.00%,F,T)

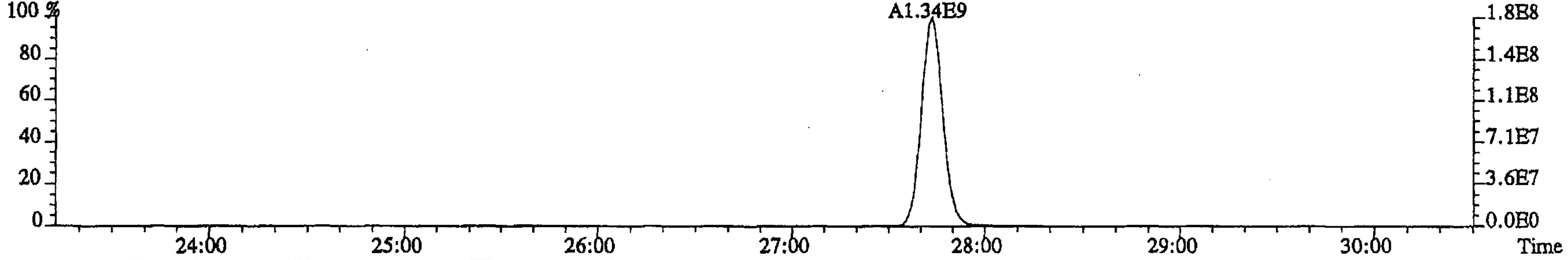
341.8567 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13656.0,1.00%,F,T)

351.9000 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4644.0,1.00%,F,T)

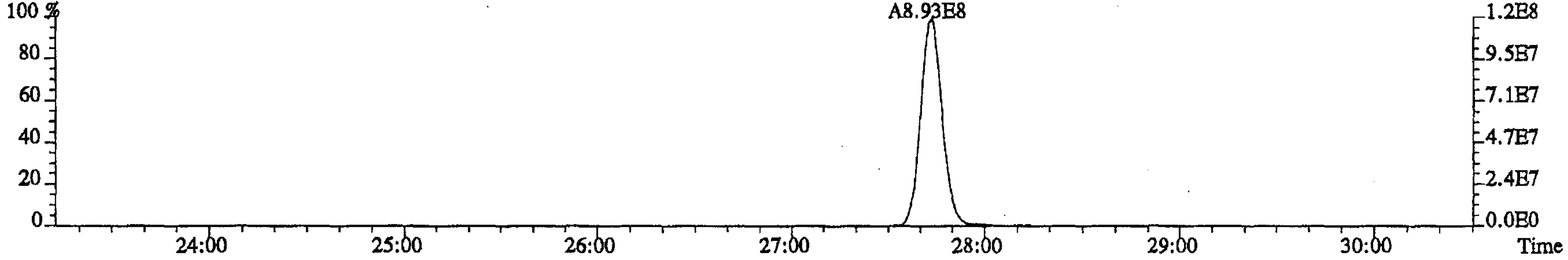
353.8970 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5992.0,1.00%,F,T)

File:21JL10A4D5 #1-469 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

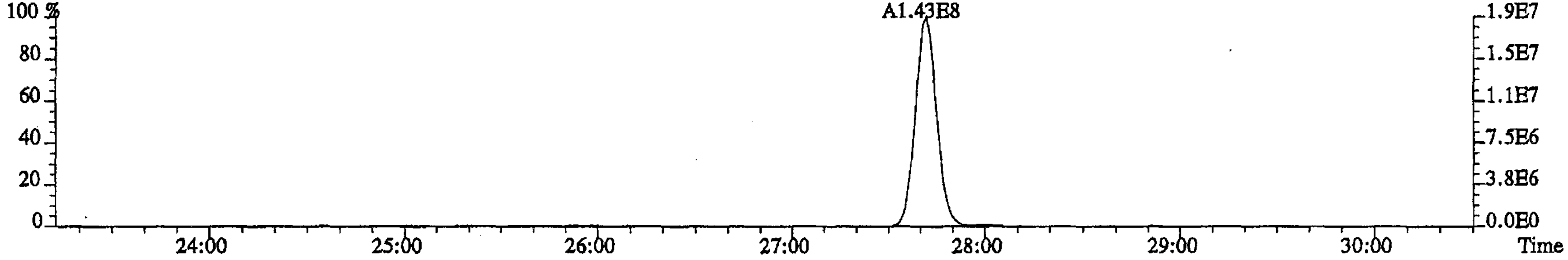
355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25872.0,1.00%,F,T)



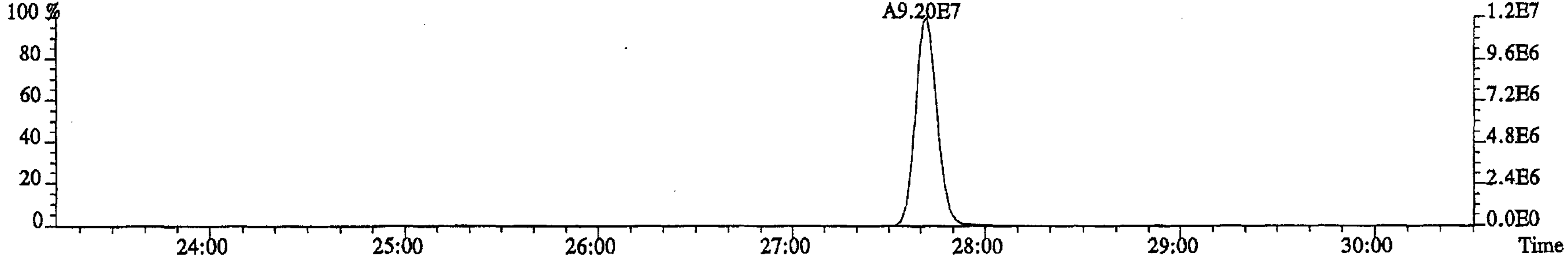
357.8516 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9792.0,1.00%,F,T)



367.8949 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4176.0,1.00%,F,T)

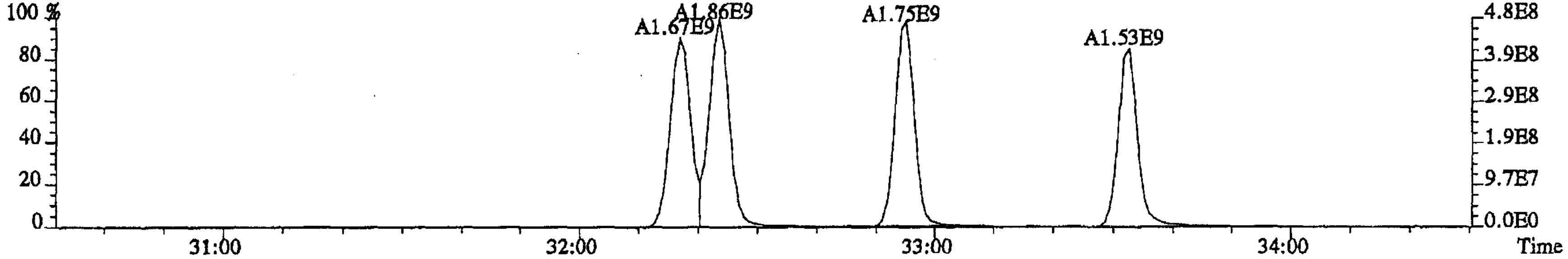


369.8919 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3344.0,1.00%,F,T)

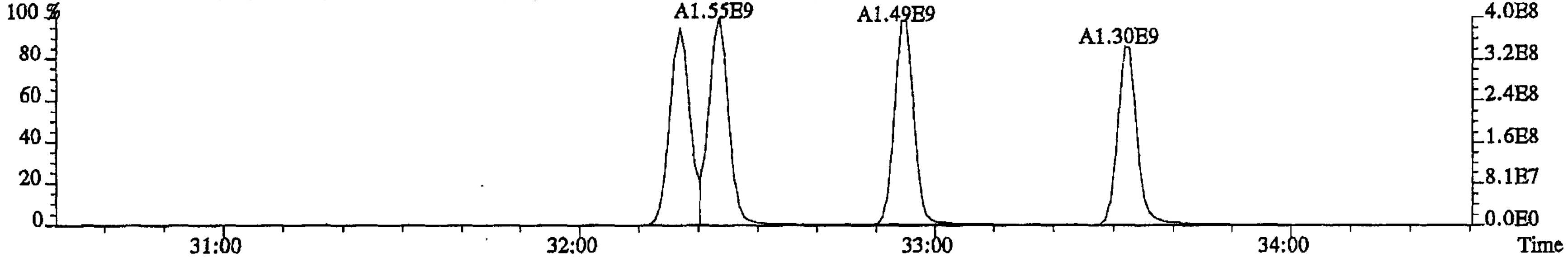


File:21JL10A4D5 #1-287 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

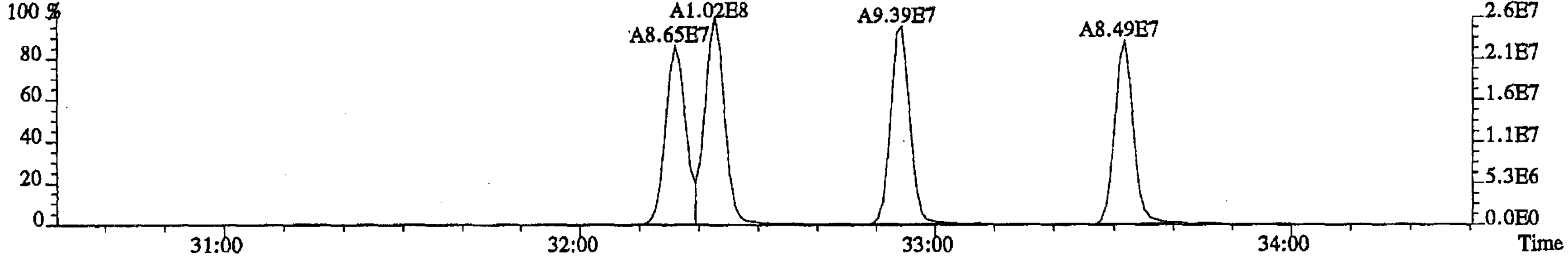
373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,212324.0,1.00%,F,T)



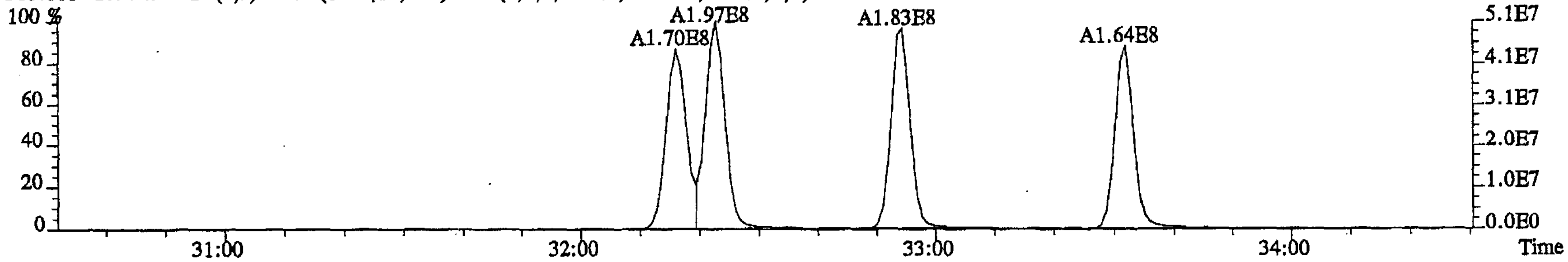
375.8178 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,172696.0,1.00%,F,T)



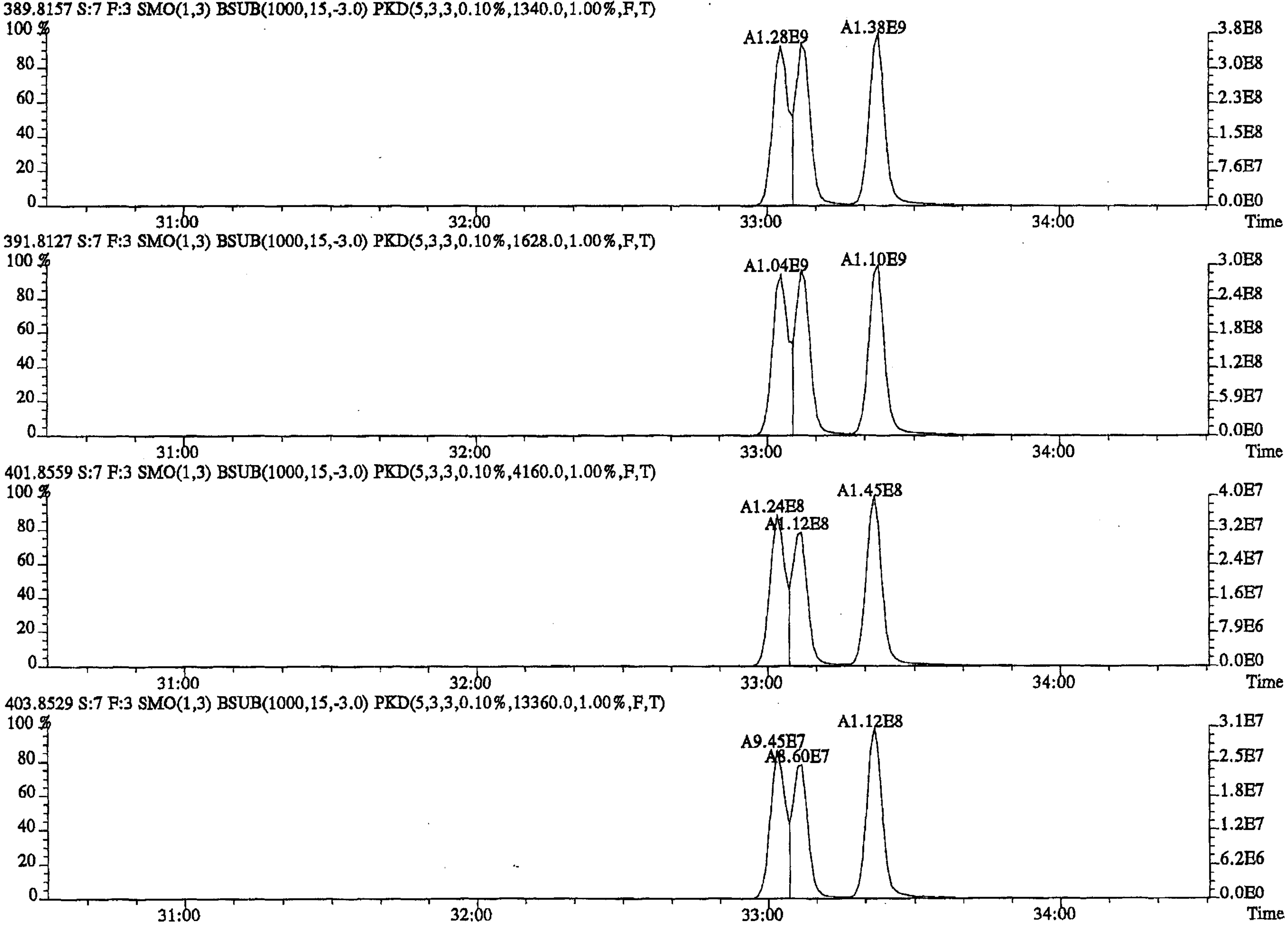
383.8639 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12564.0,1.00%,F,T)



385.8610 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20892.0,1.00%,F,T)

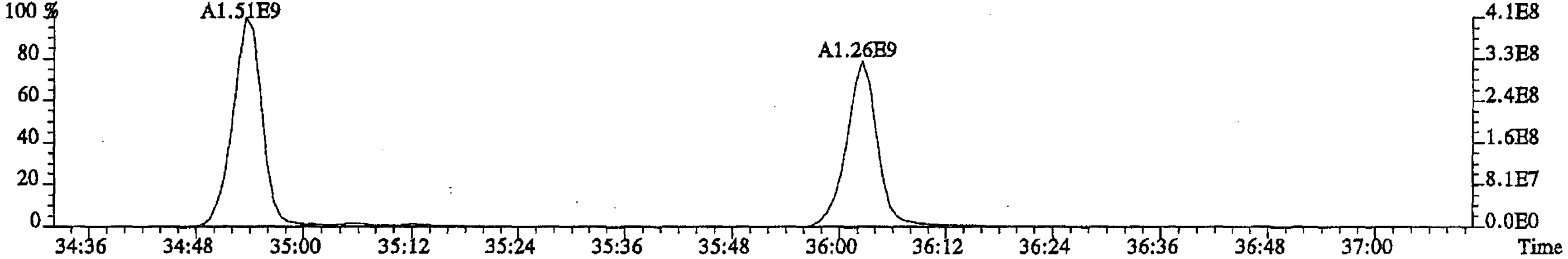


File:21JL10A4D5 #1-287 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

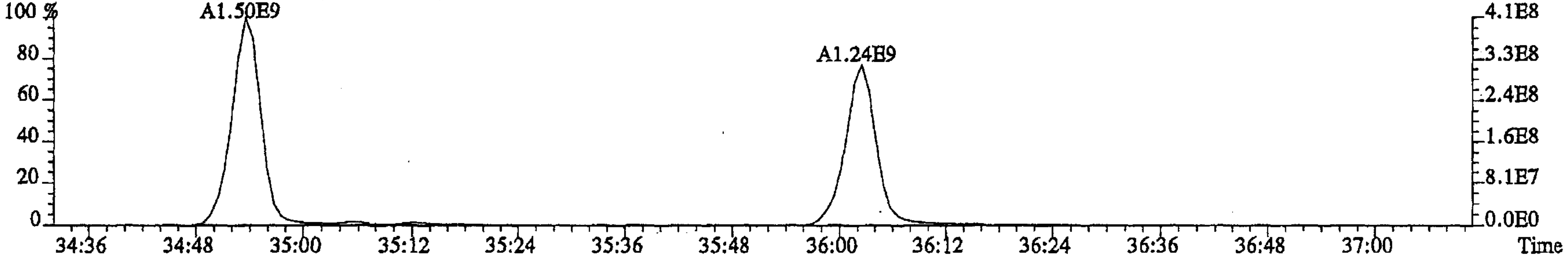


File:21JL10A4D5 #1-201 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

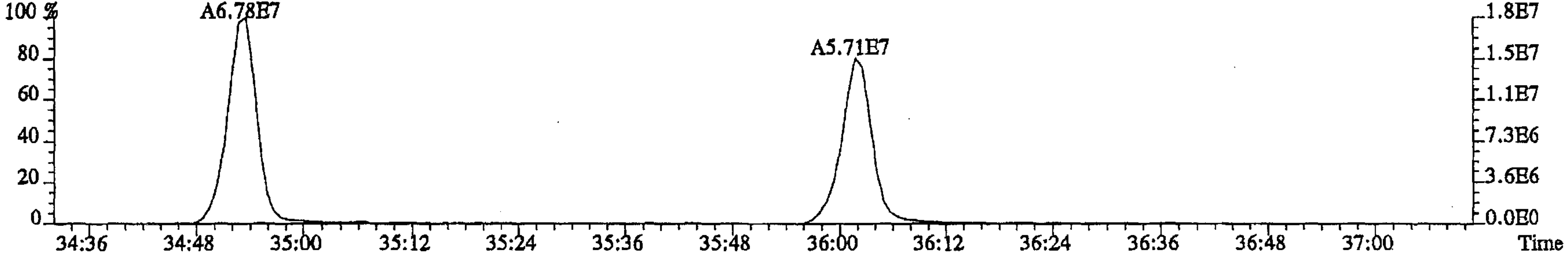
407.7818 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,99420.0,1.00%,F,T)



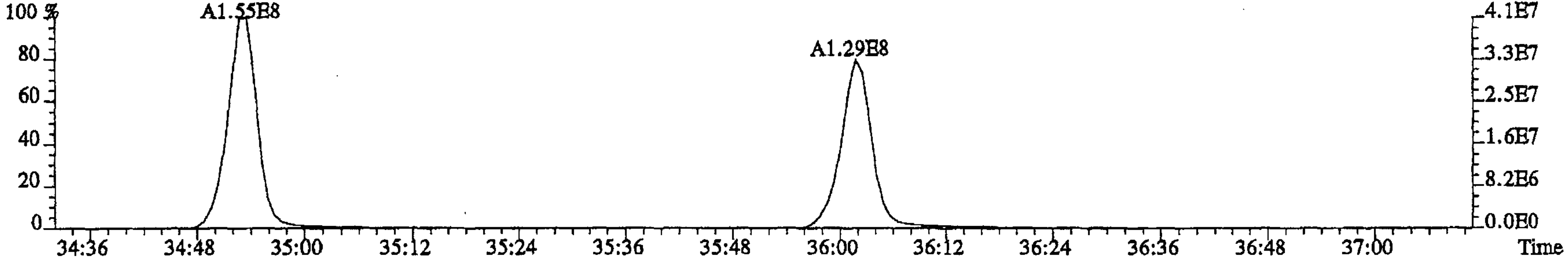
409.7789 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,88028.0,1.00%,F,T)



417.8253 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27856.0,1.00%,F,T)

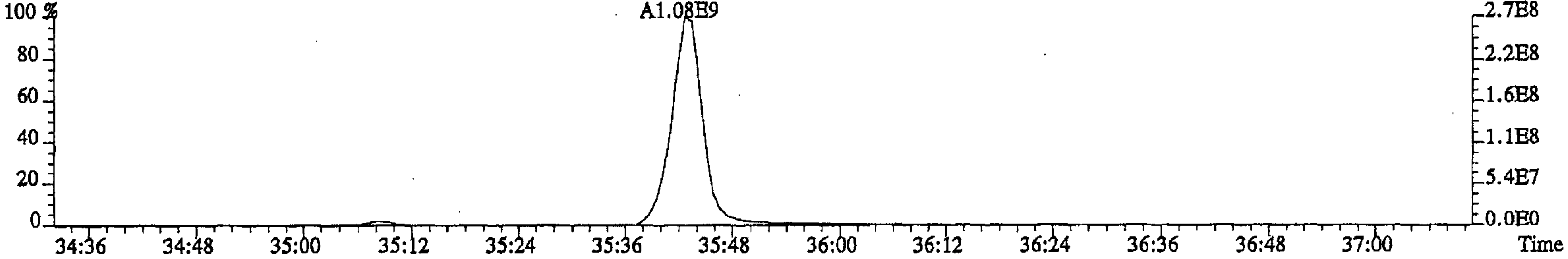


419.8220 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19244.0,1.00%,F,T)

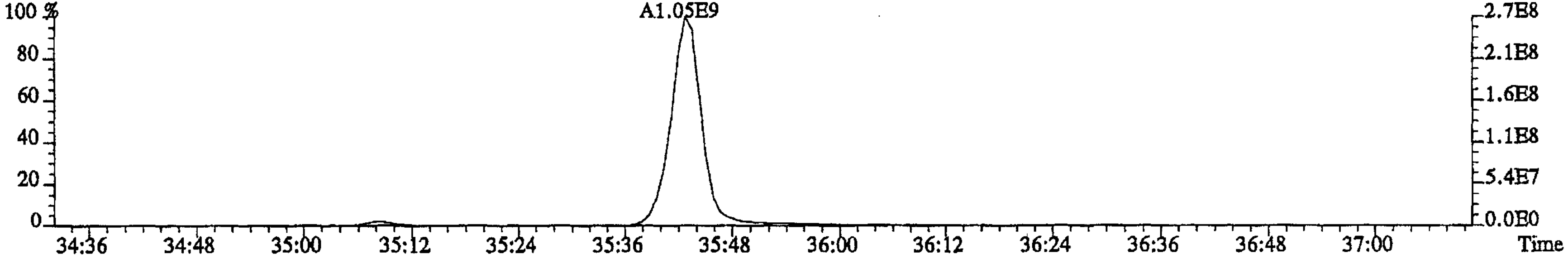


File:21JL10A4D5 #1-201 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

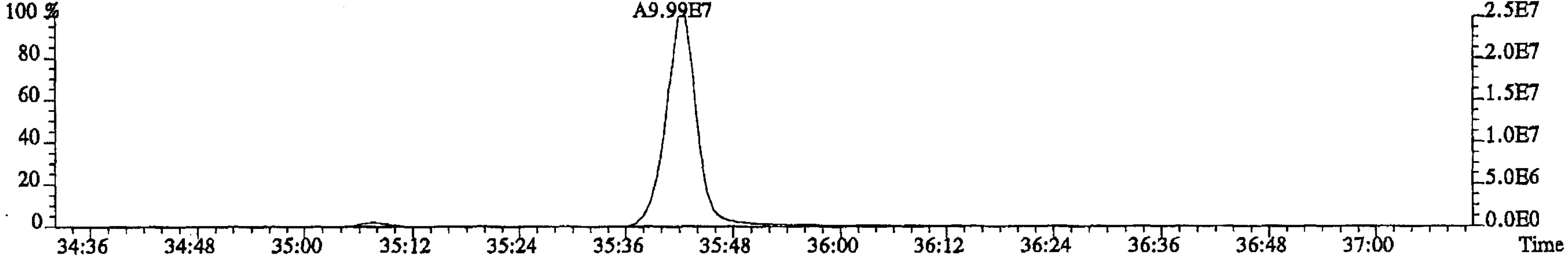
423.7766 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,75680.0,1.00%,F,T)



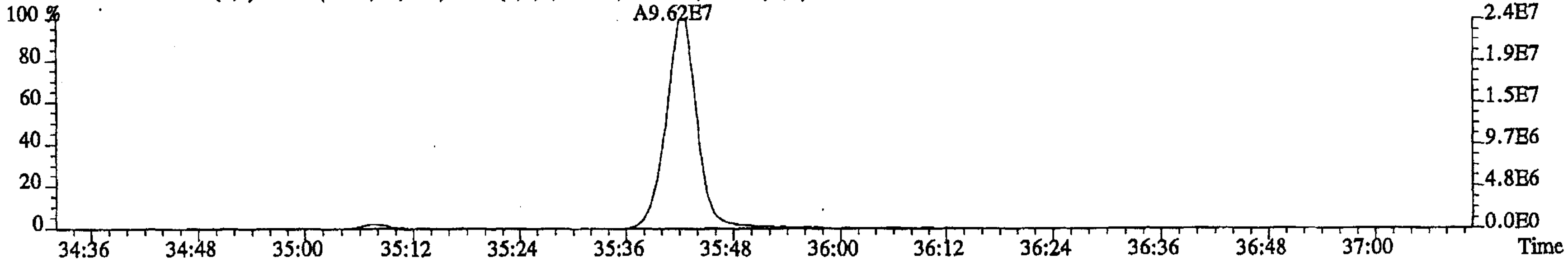
425.7737 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,61652.0,1.00%,F,T)



435.8169 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17960.0,1.00%,F,T)

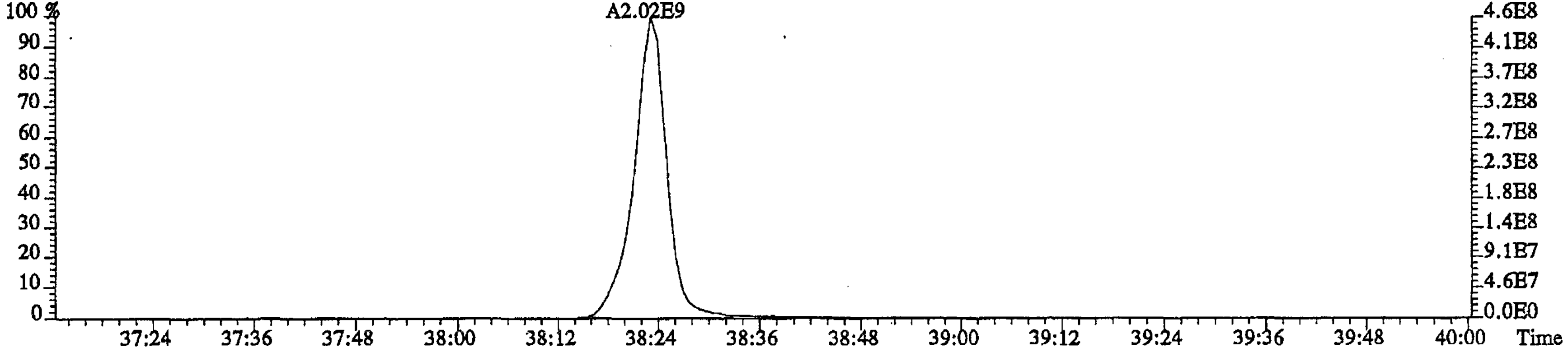


437.8140 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13632.0,1.00%,F,T)

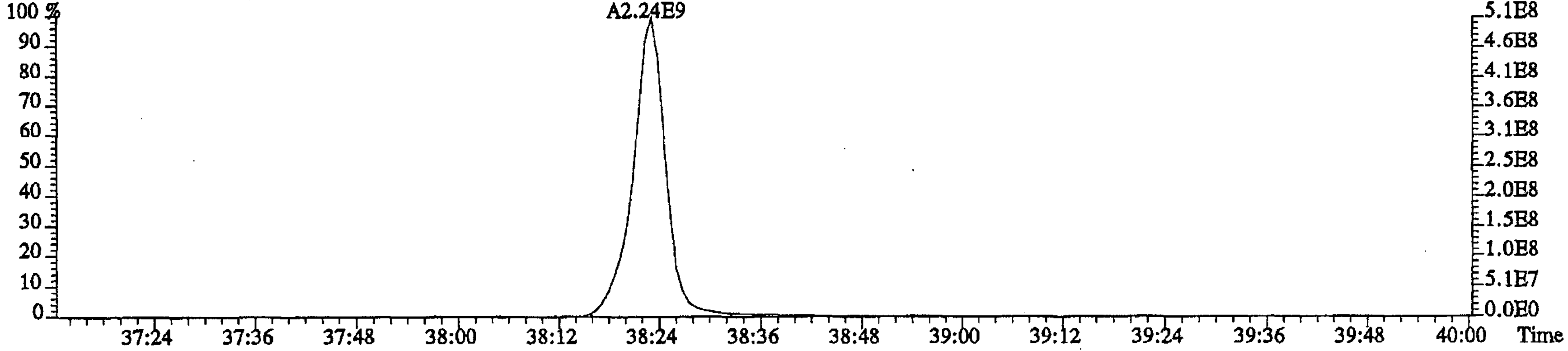


File:21JL10A4D5 #1-227 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

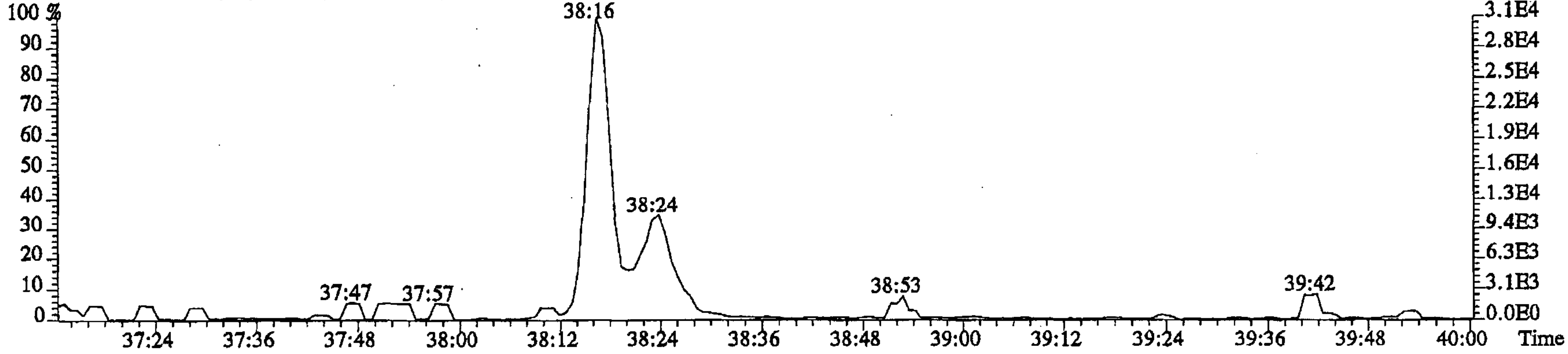
441.7428 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,37688.0,1.00%,F,T)



443.7399 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33736.0,1.00%,F,T)

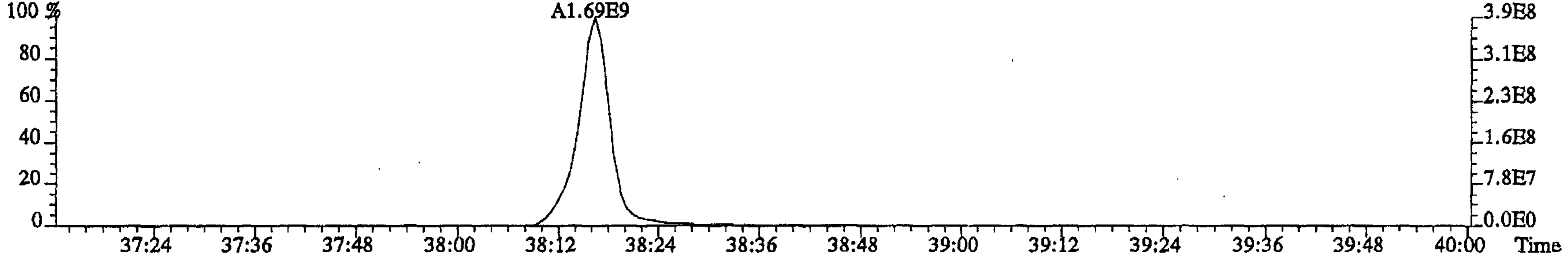


513.6775 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,168.0,1.00%,F,T)

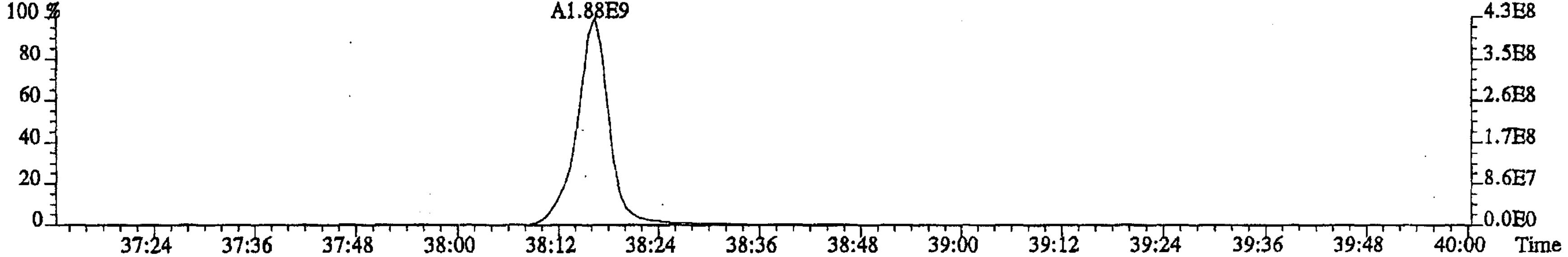


File:21JL10A4D5 #1-227 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

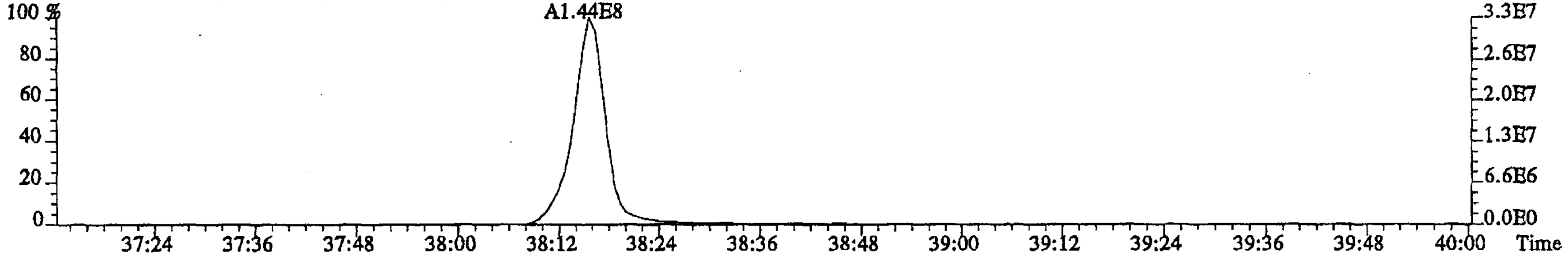
457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27244.0,1.00%,F,T)



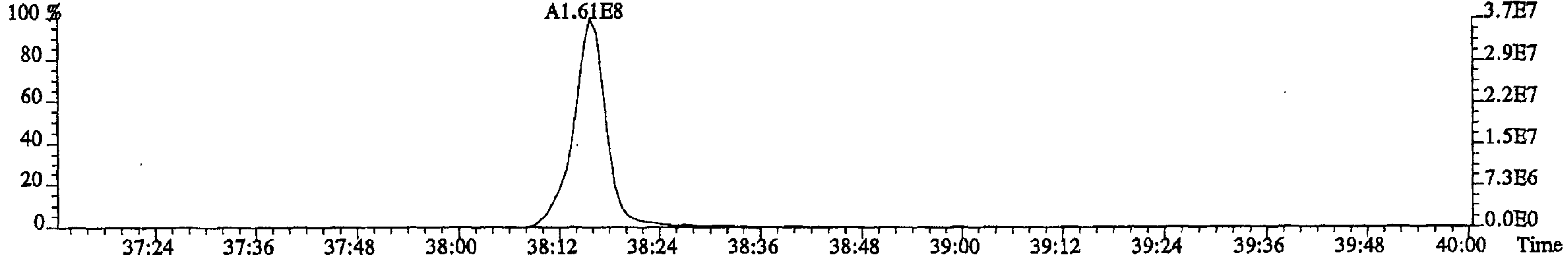
459.7348 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31008.0,1.00%,F,T)



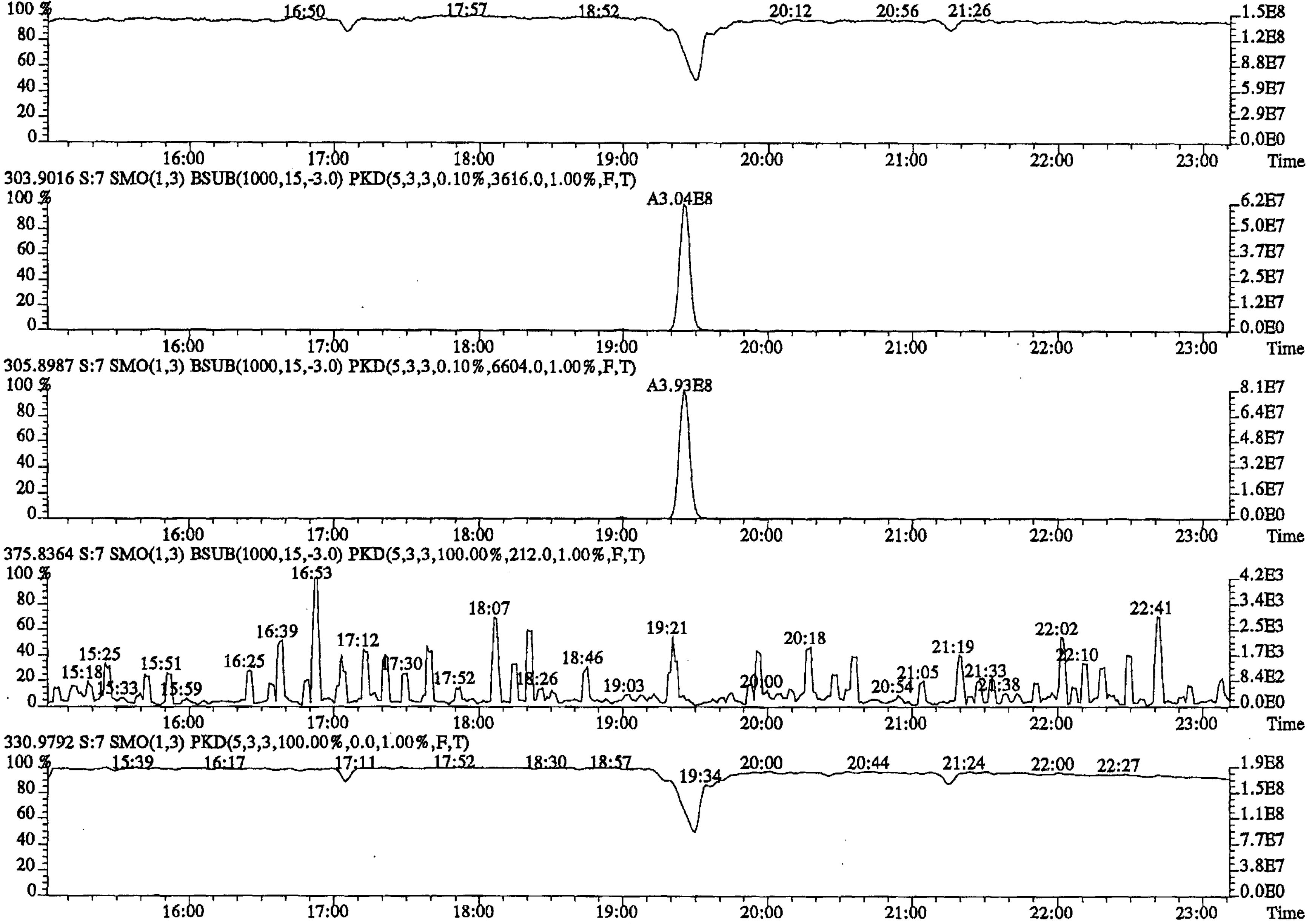
469.7779 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12384.0,1.00%,F,T)



471.7750 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7720.0,1.00%,F,T)

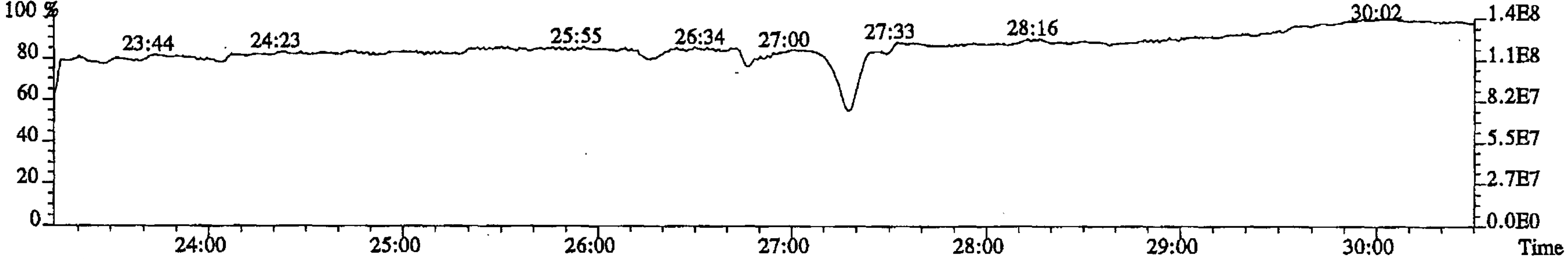


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES
292.9825 S:7 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

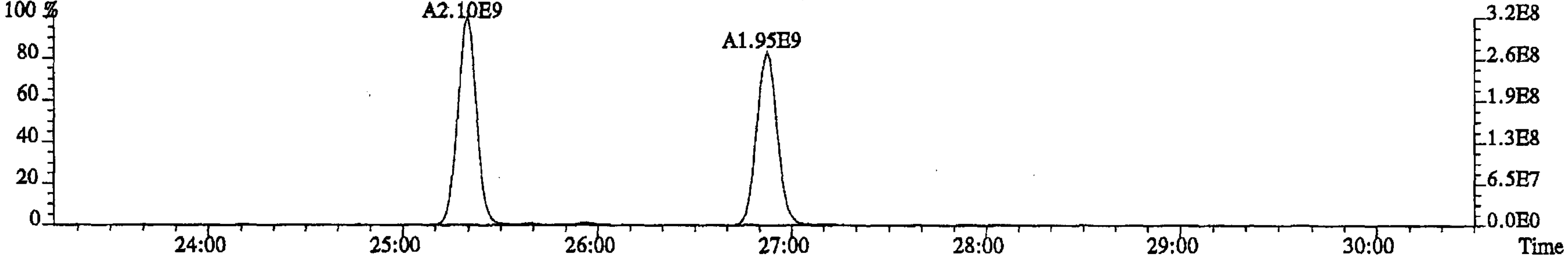


File:21JL10A4D5 #1-469 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

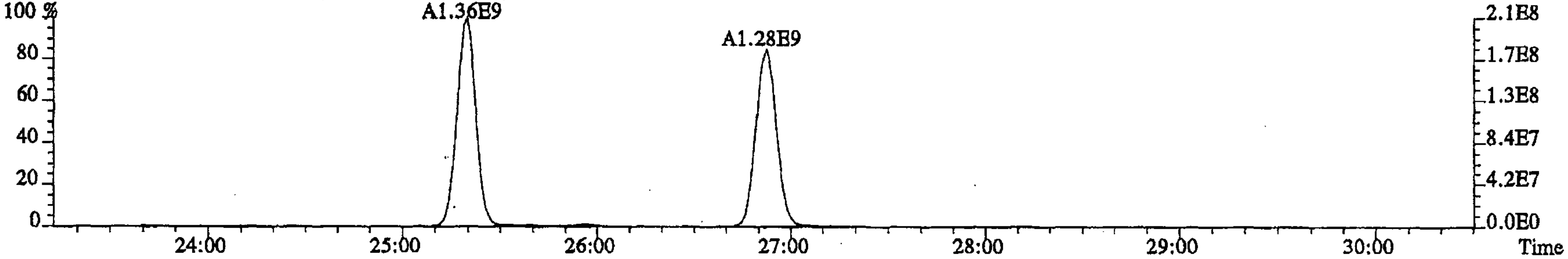
342.9792 S:7 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



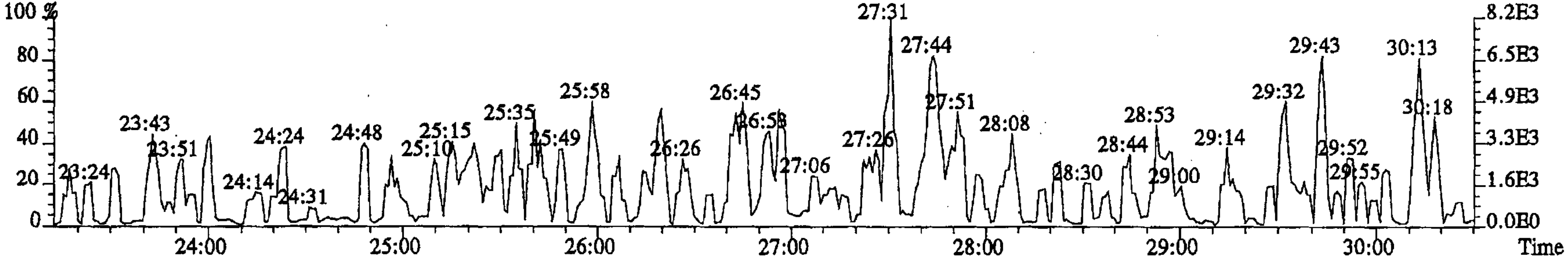
339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26980.0,1.00%,F,T)



341.8567 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13656.0,1.00%,F,T)

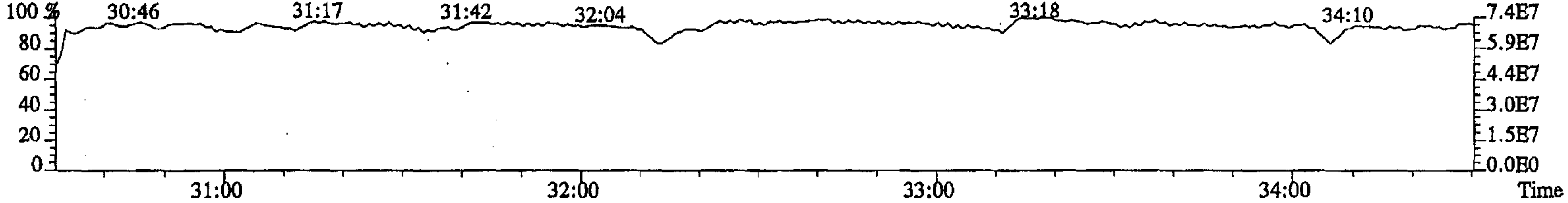


409.7974 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,228.0,1.00%,F,T)

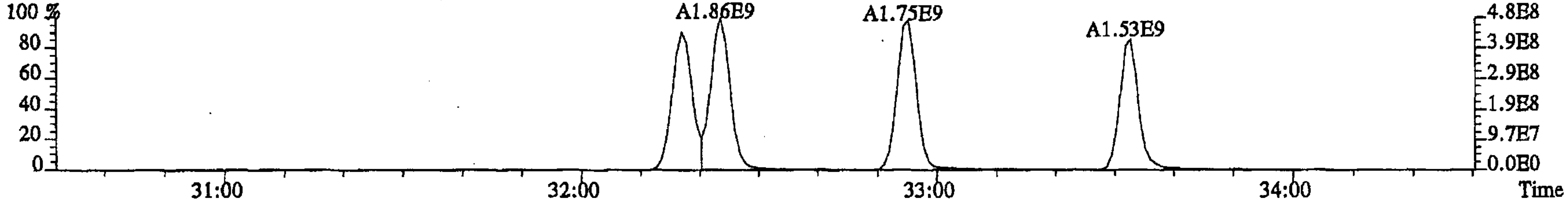


File:21JL10A4D5 #1-287 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES

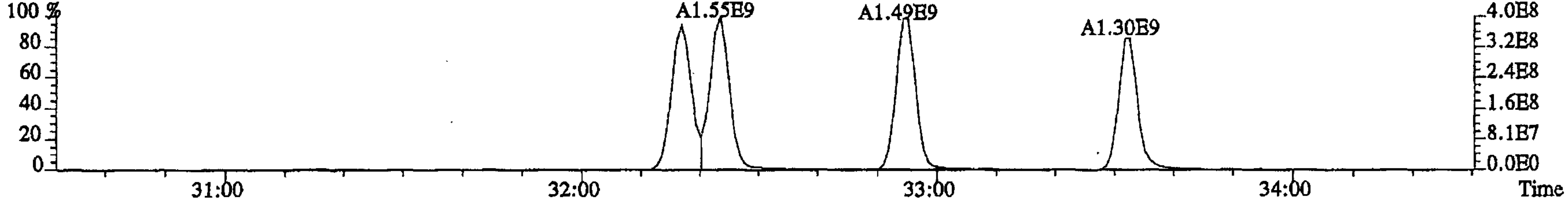
392.9760 S:7 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



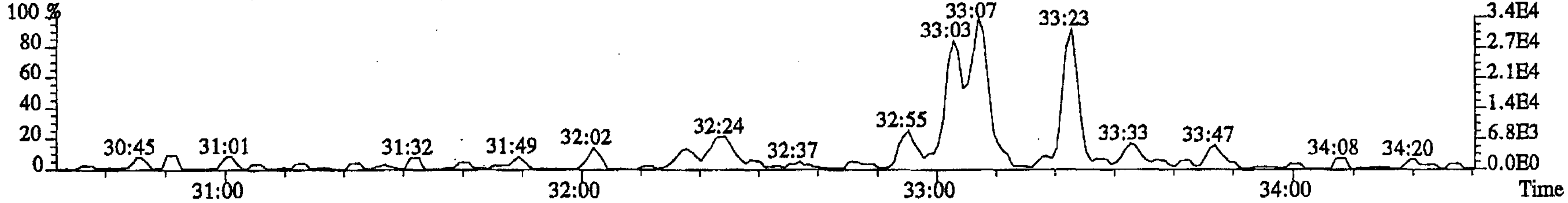
373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,212324.0,1.00%,F,T)



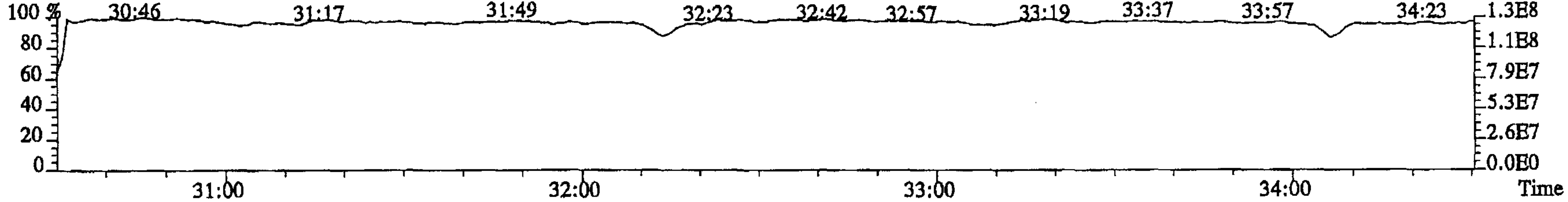
375.8178 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,172696.0,1.00%,F,T)



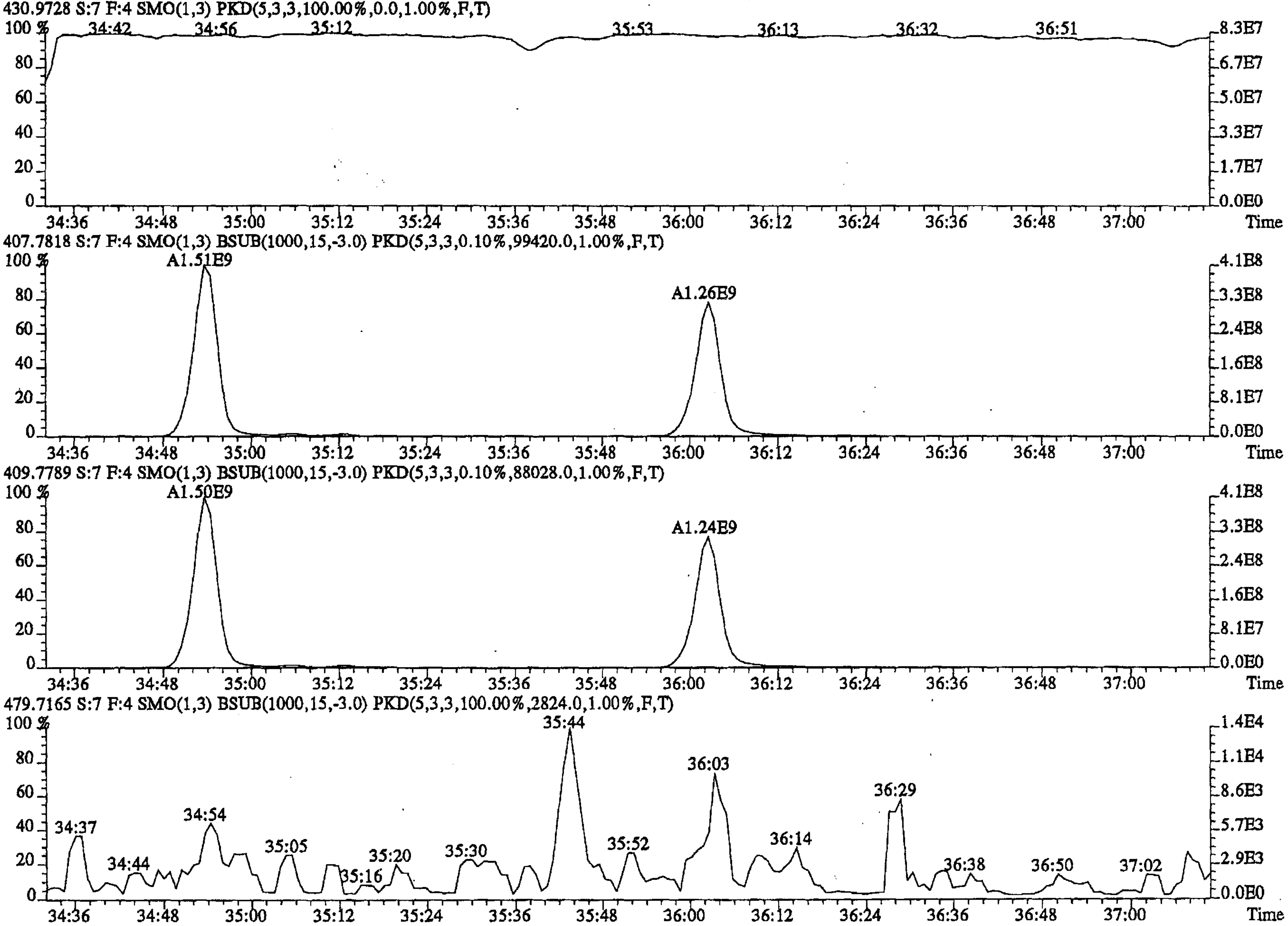
445.7555 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,204.0,1.00%,F,T)



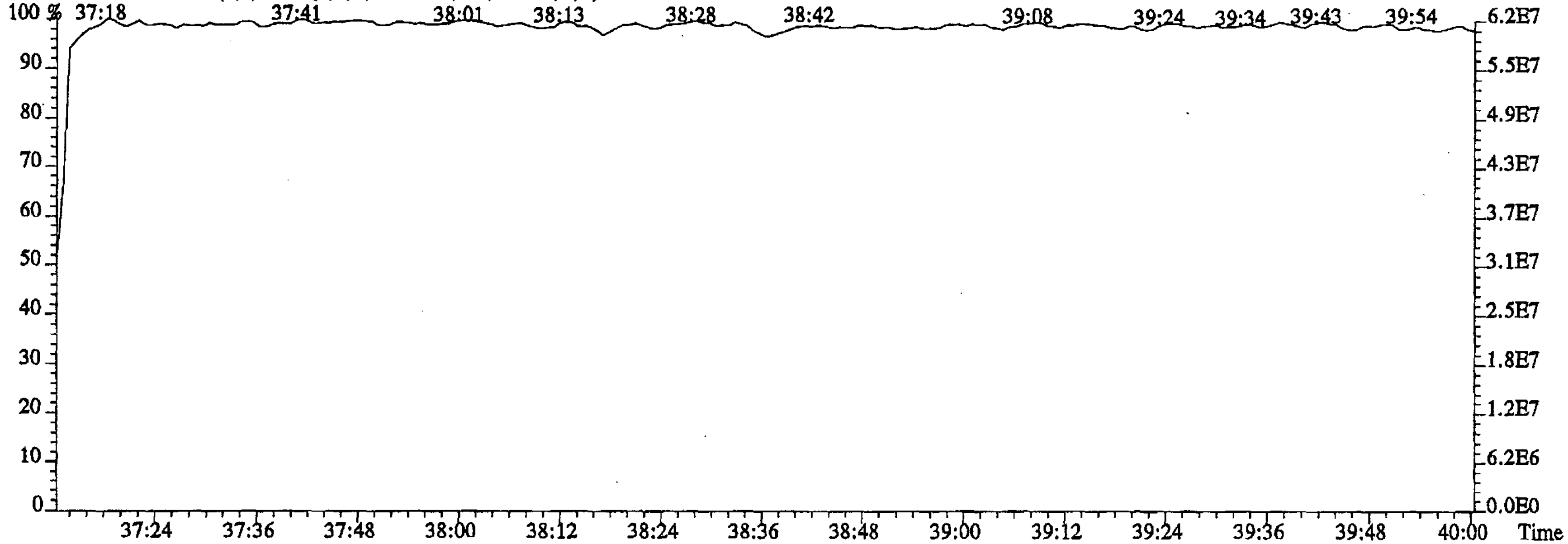
380.9760 S:7 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



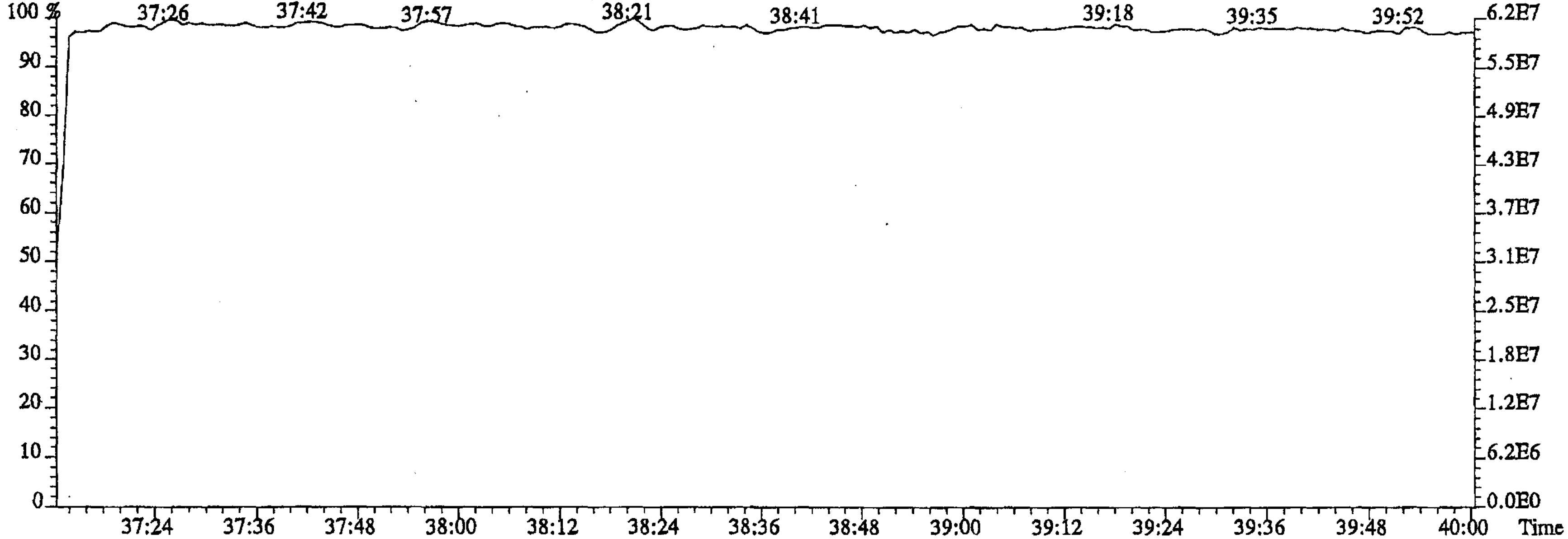
File:21JL10A4D5 #1-201 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES



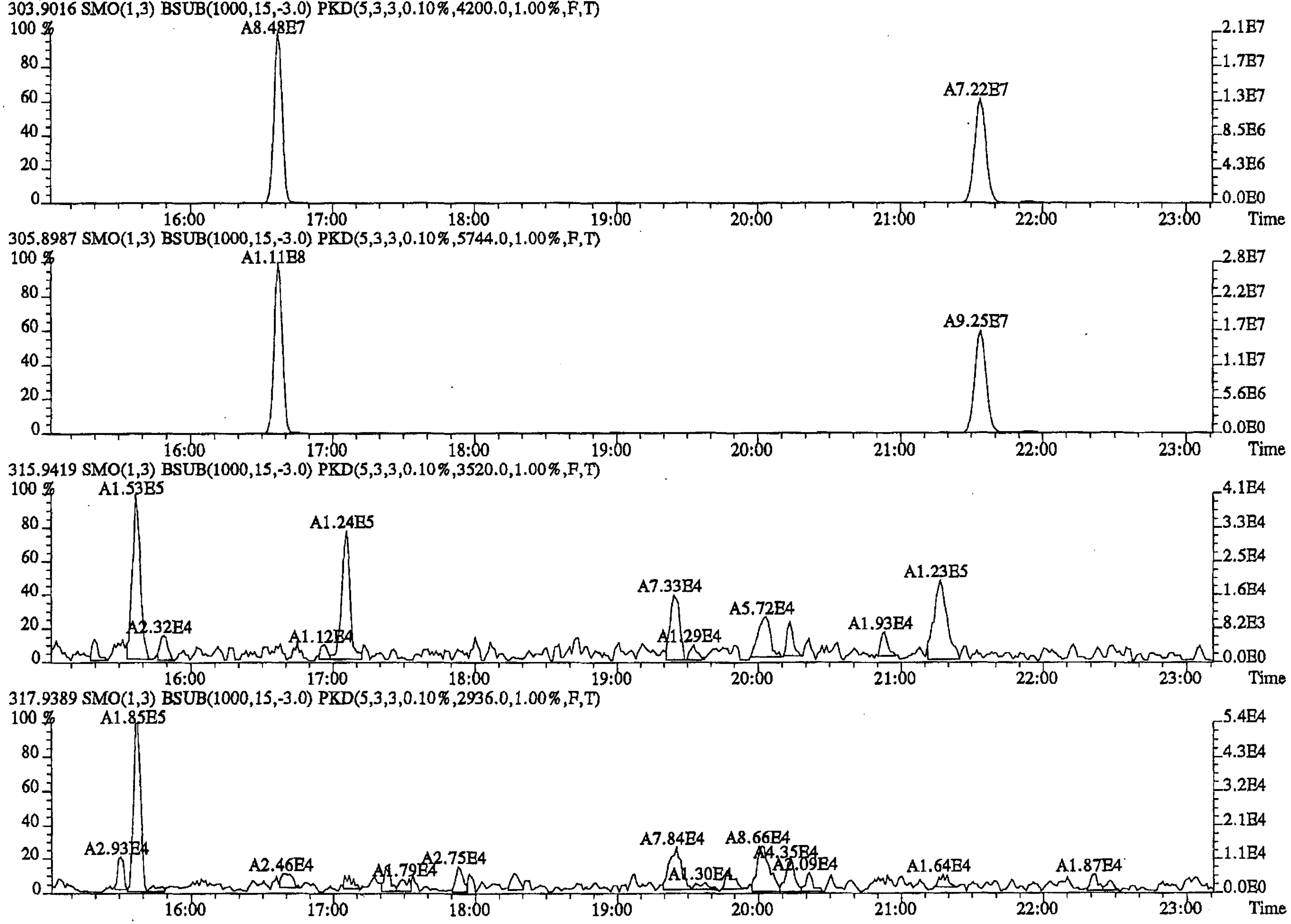
File:21JL10A4D5 #1-227 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES
454.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



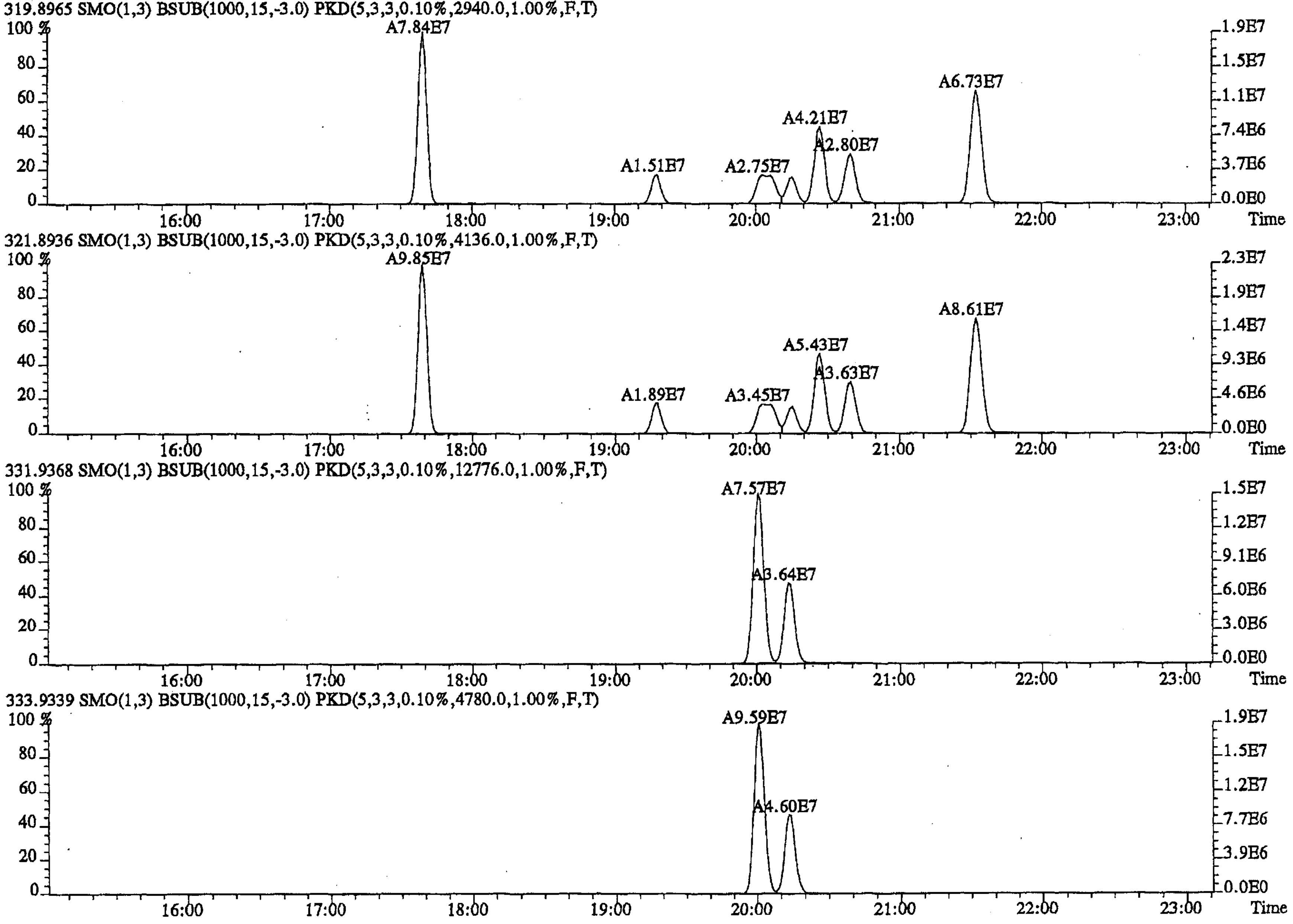
442.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



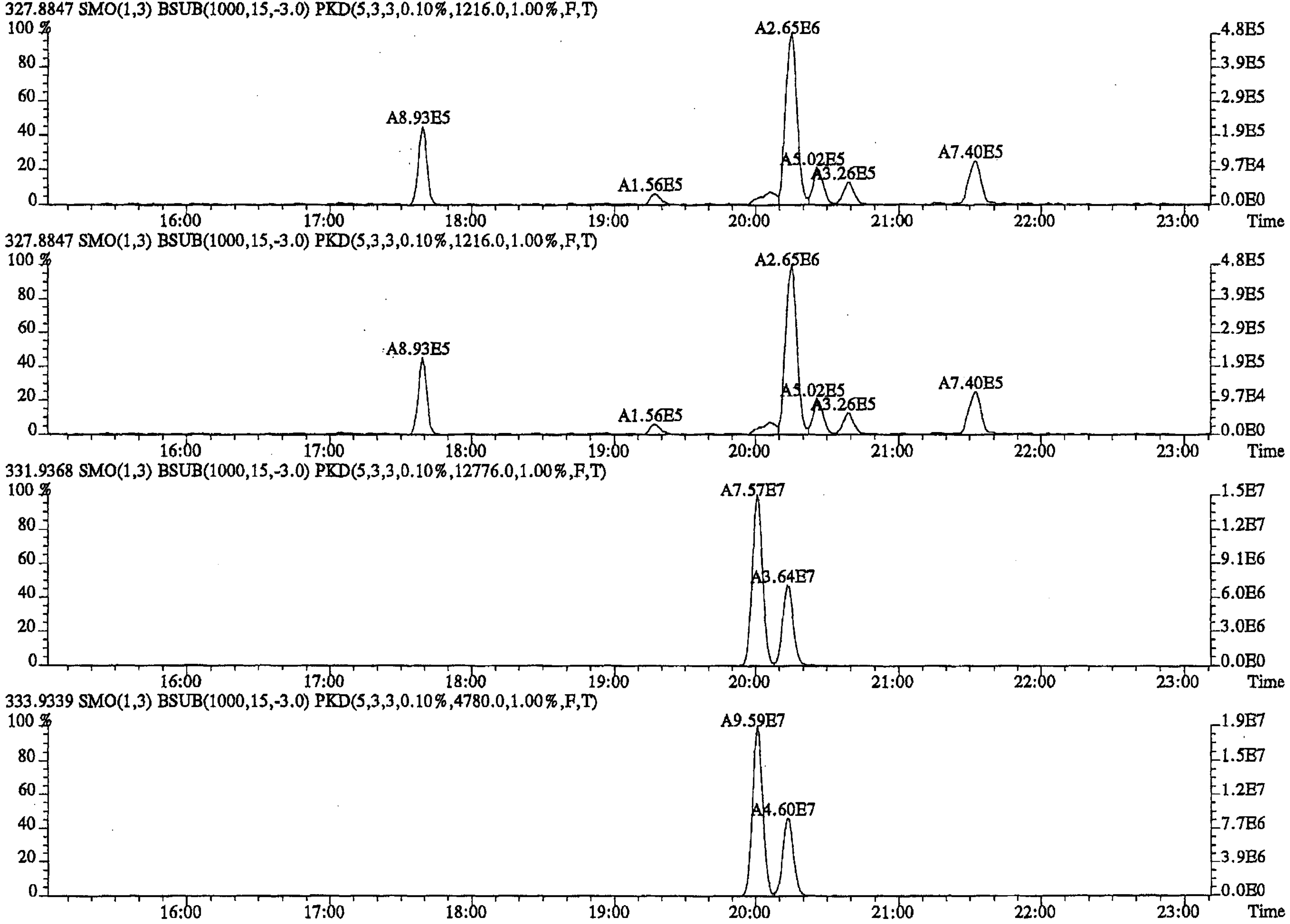
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



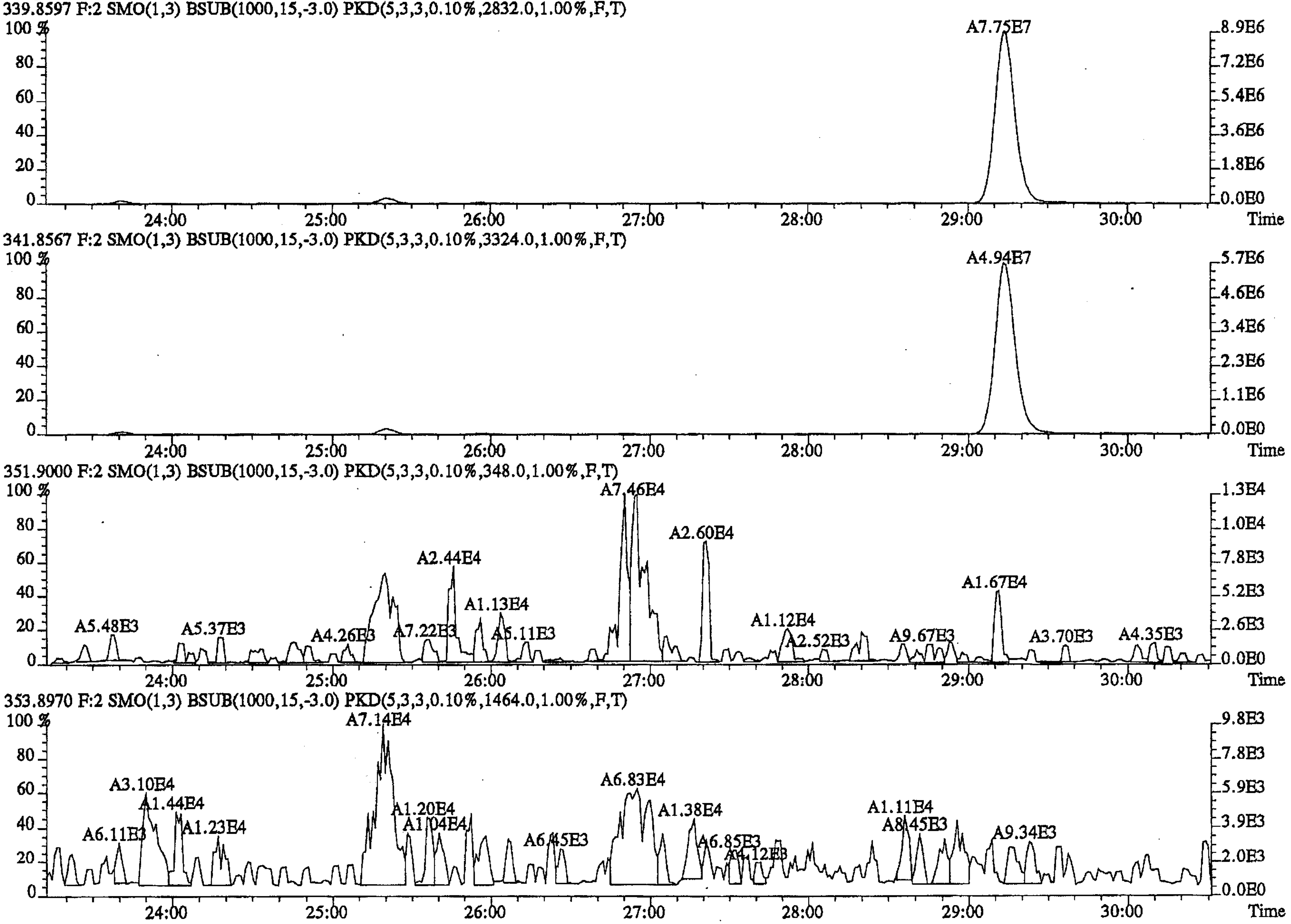
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



File:21JL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



File:21JL10A4D5 #1-470 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



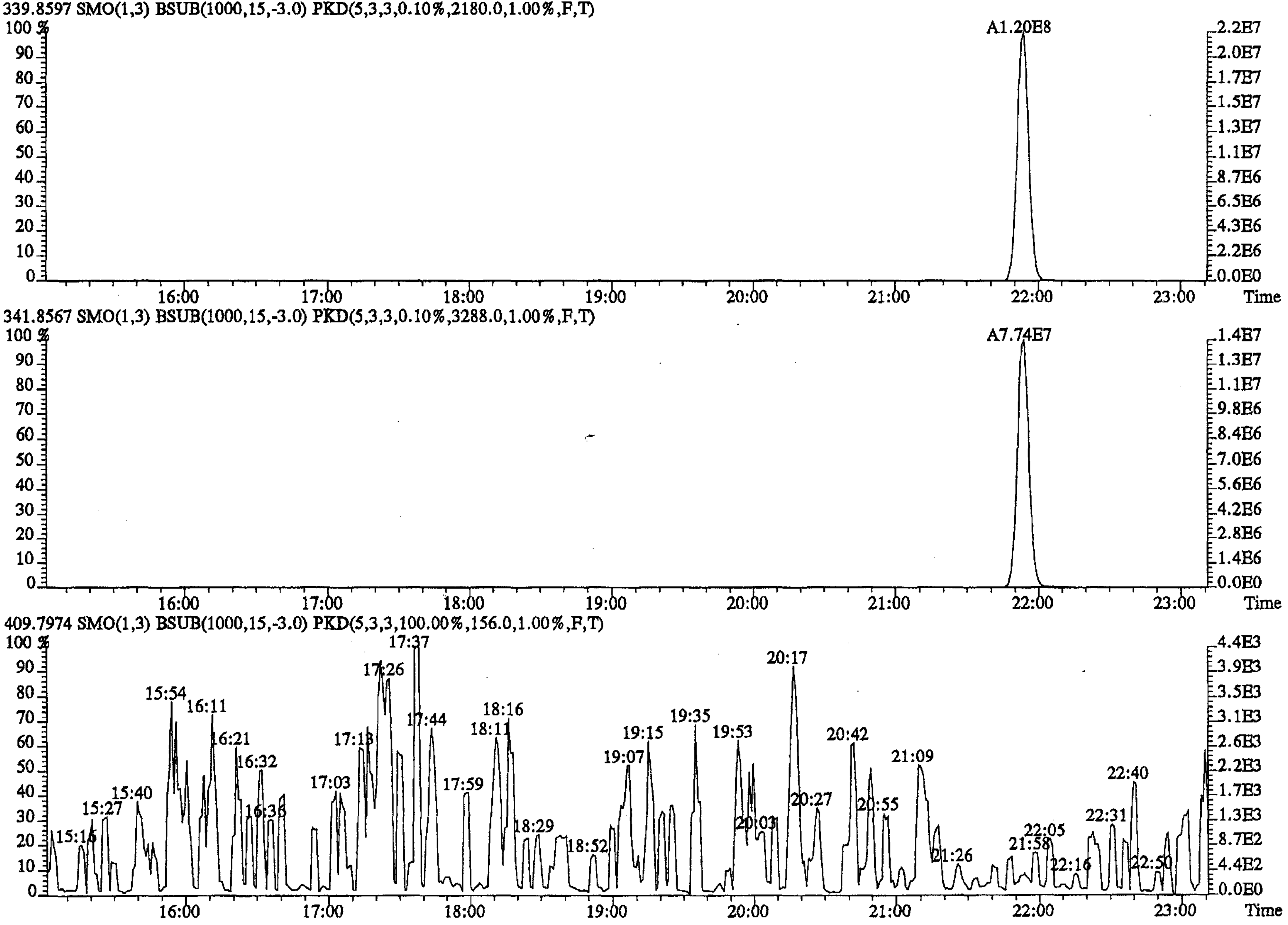
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2832.0,1.00%,F,T)

341.8567 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3324.0,1.00%,F,T)

351.9000 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,348.0,1.00%,F,T)

353.8970 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1464.0,1.00%,F,T)

File:21JL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES

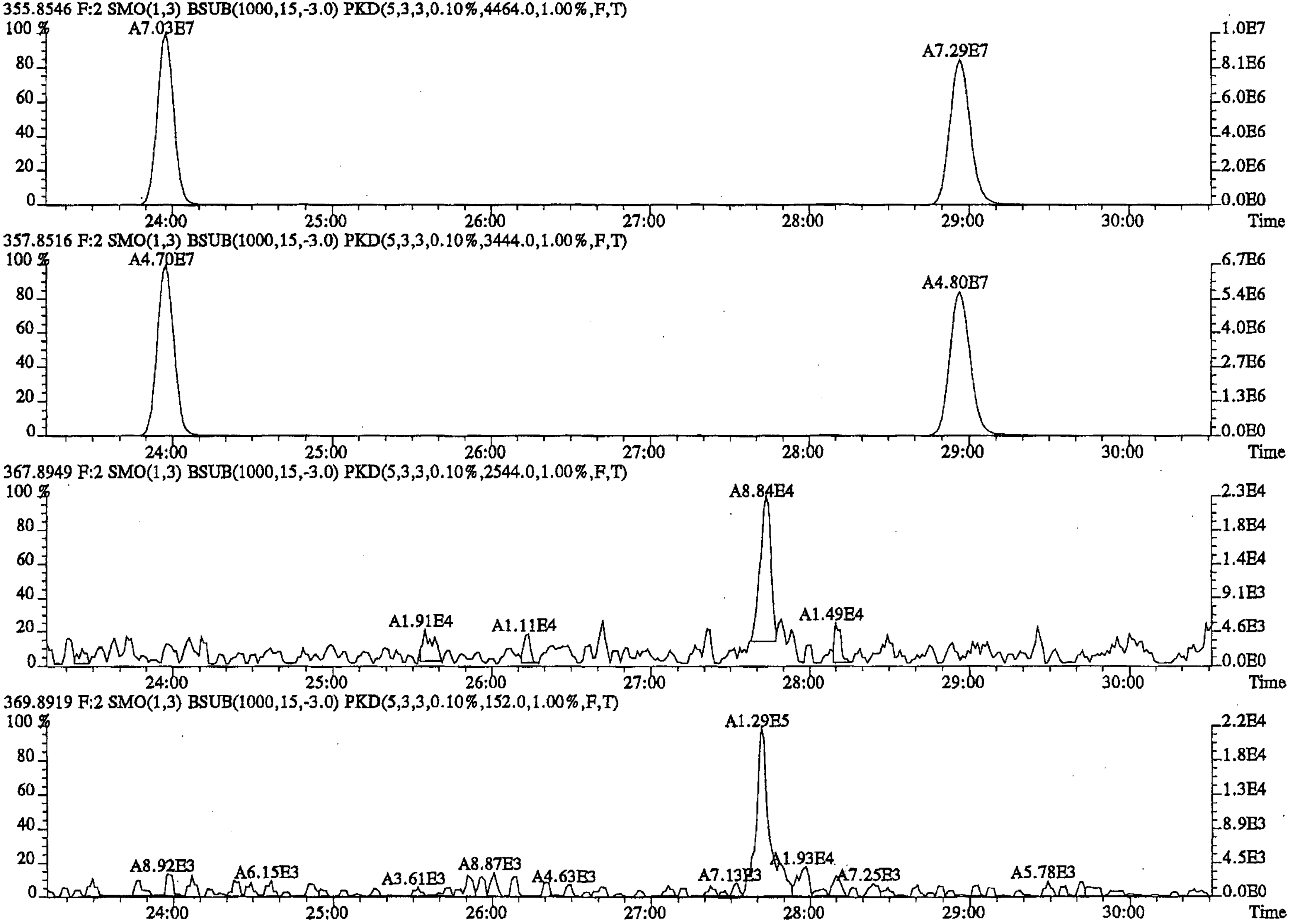


339.8597 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2180.0,1.00%,F,T)

341.8567 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3288.0,1.00%,F,T)

409.7974 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,156.0,1.00%,F,T)

File:21JL10A4D5 #1-470 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES


355.8546 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4464.0,1.00%,F,T)

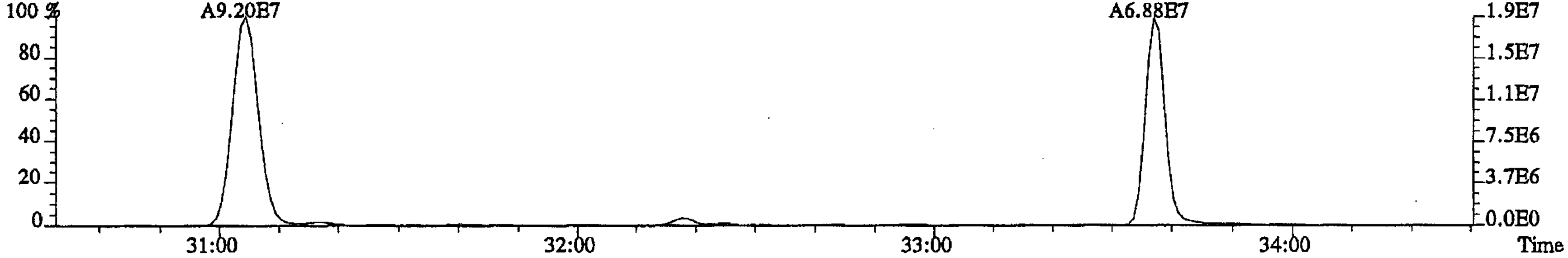
357.8516 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3444.0,1.00%,F,T)

367.8949 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2544.0,1.00%,F,T)

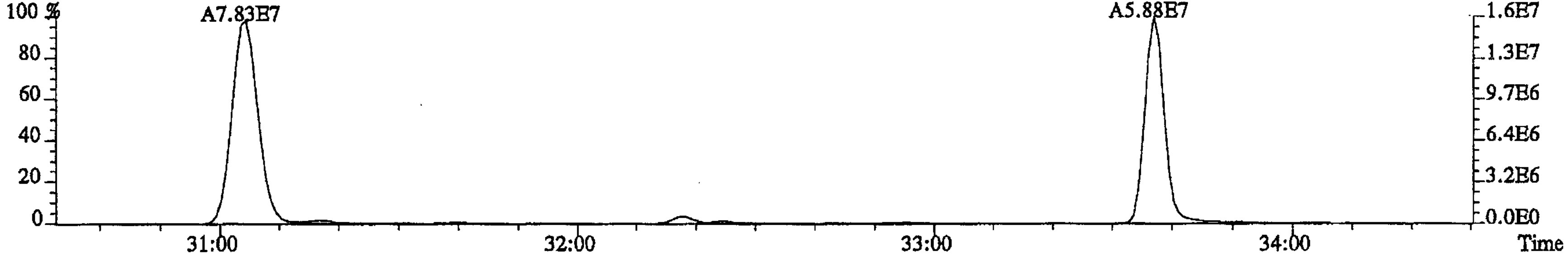
369.8919 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,152.0,1.00%,F,T)

File:21JL10A4D5 #1-286 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES

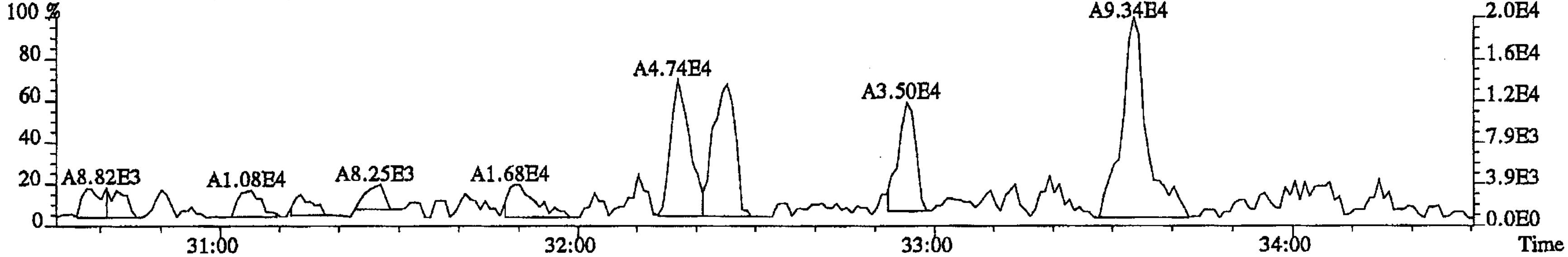
373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14964.0,1.00%,F,T)



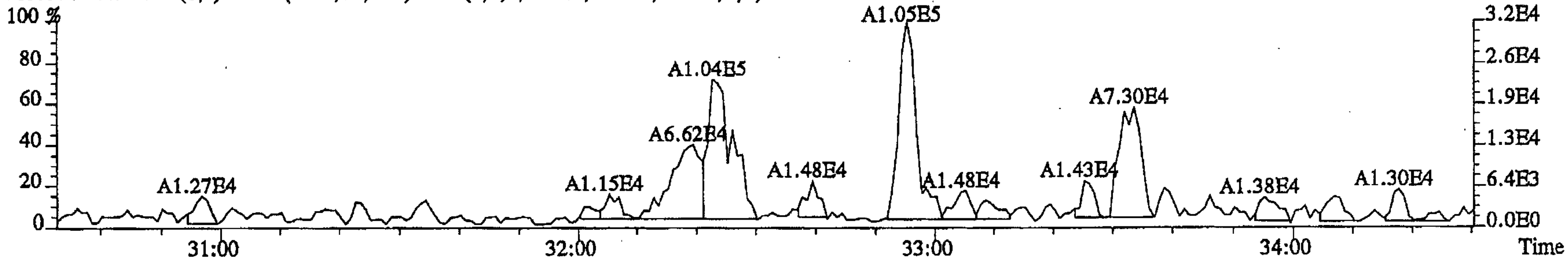
375.8178 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10284.0,1.00%,F,T)



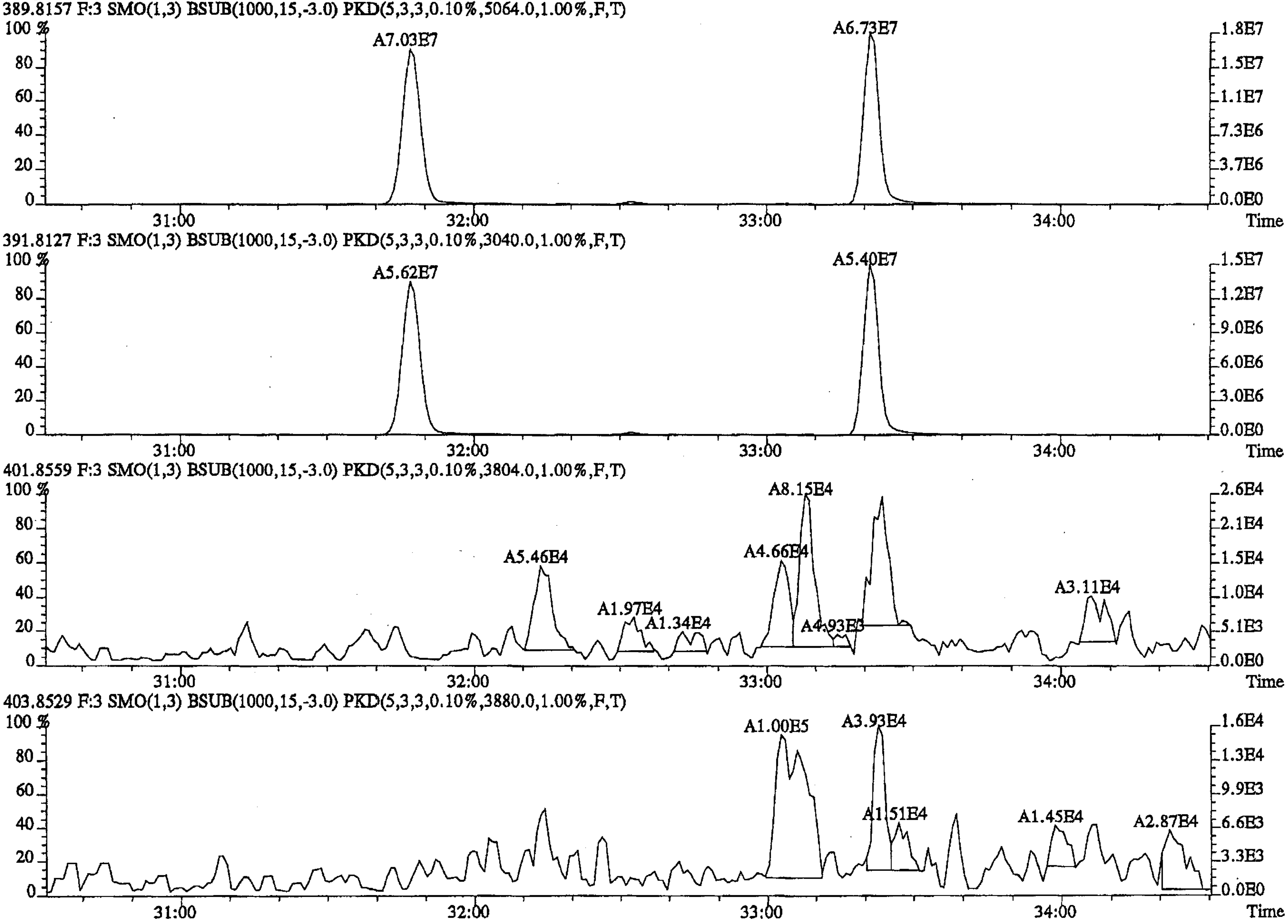
383.8639 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2056.0,1.00%,F,T)



385.8610 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2320.0,1.00%,F,T)



File:21JL10A4D5 #1-286 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



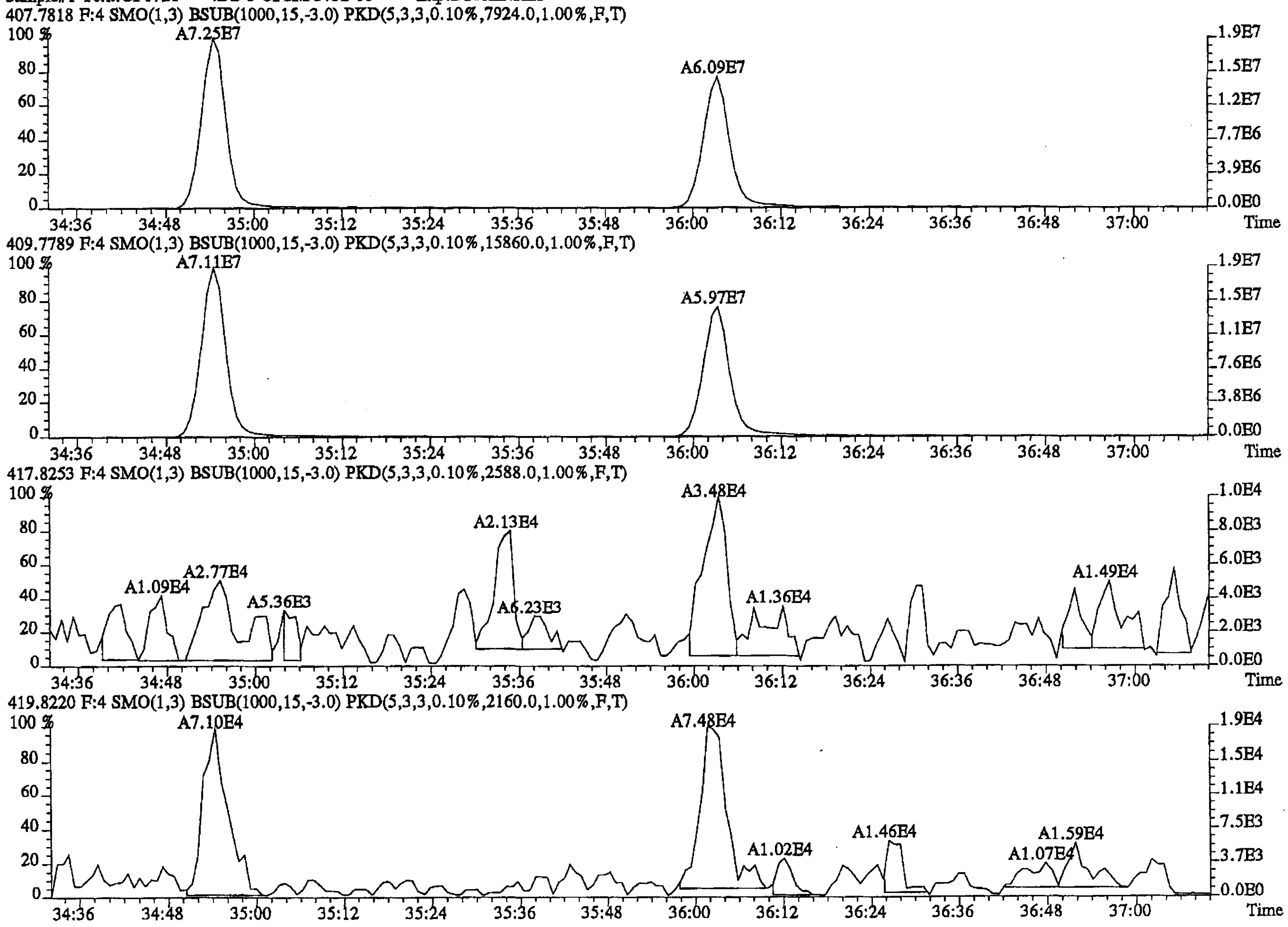
389.8157 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5064.0,1.00%,F,T)

391.8127 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3040.0,1.00%,F,T)

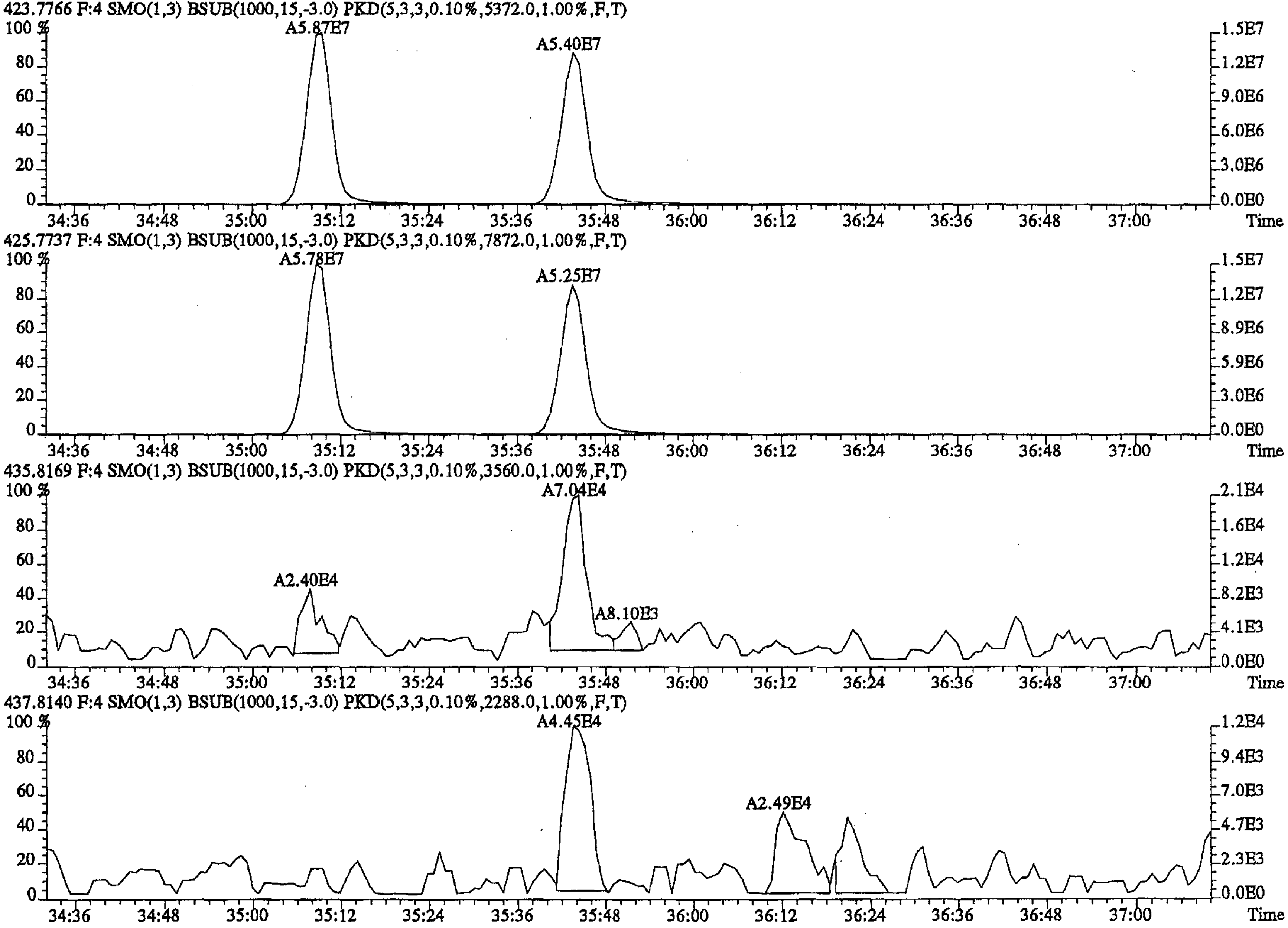
401.8559 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3804.0,1.00%,F,T)

403.8529 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3880.0,1.00%,F,T)

File:21JL10A4D5 #1-200 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



File:21JL10A4D5 #1-200 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



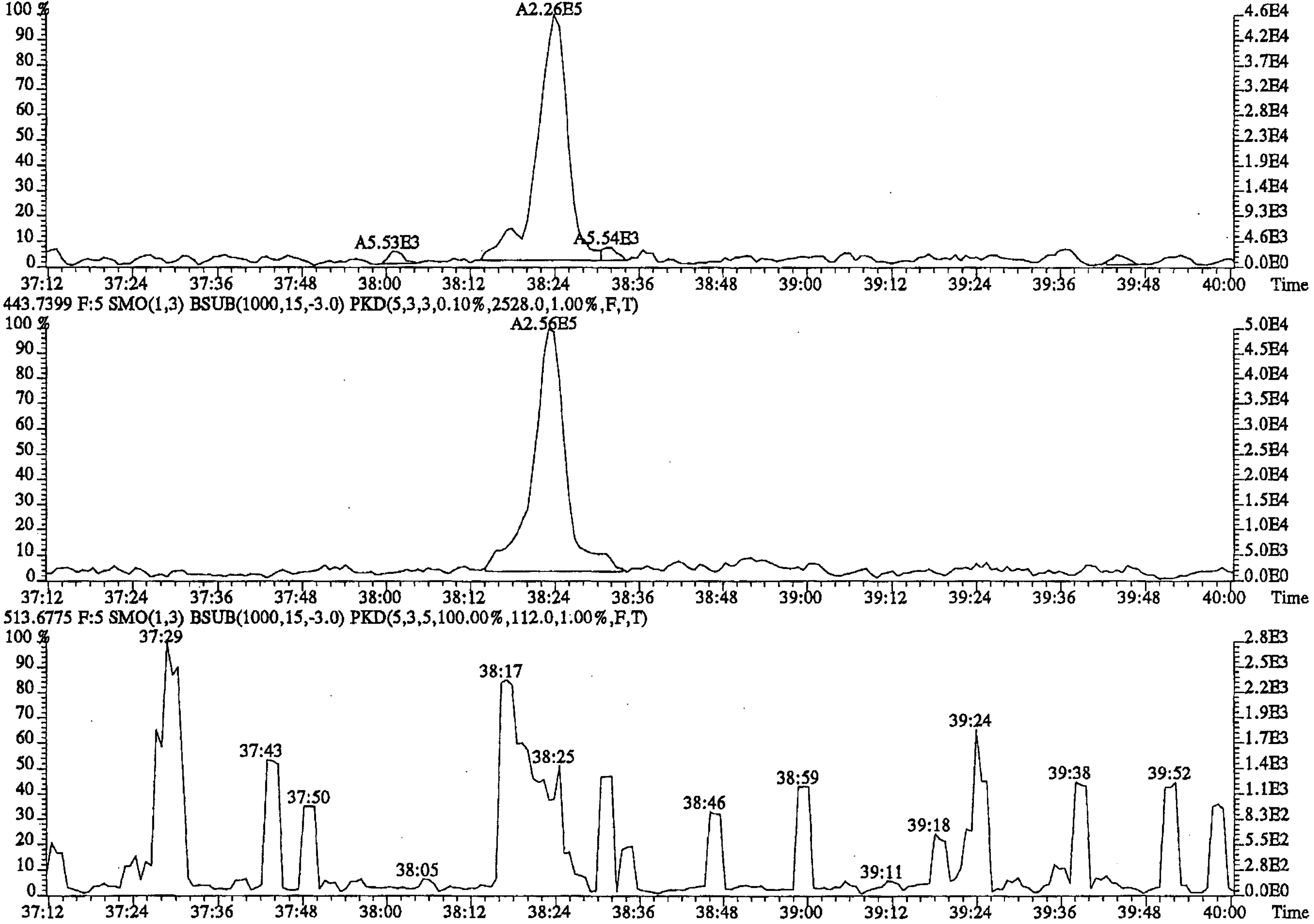
423.7766 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5372.0,1.00%,F,T)

425.7737 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7872.0,1.00%,F,T)

435.8169 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3560.0,1.00%,F,T)

437.8140 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2288.0,1.00%,F,T)

File:21JL10A4D5 #1-228 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



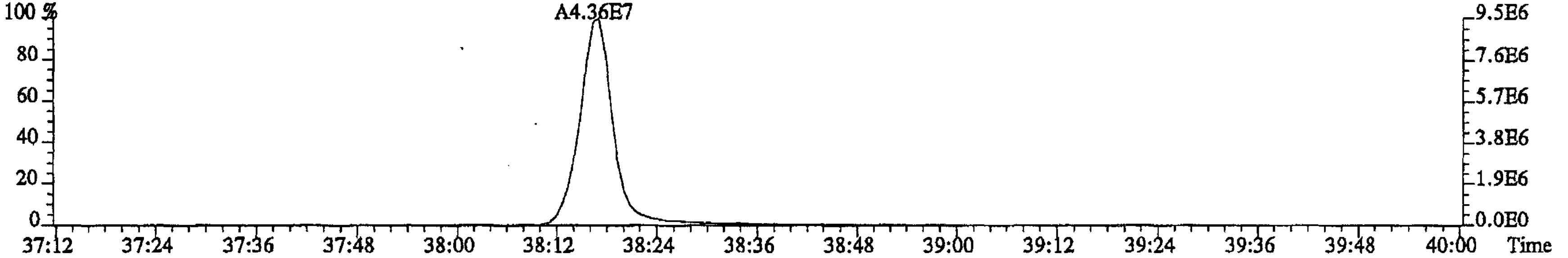
441.7428 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1744.0,1.00%,F,T)

443.7399 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2528.0,1.00%,F,T)

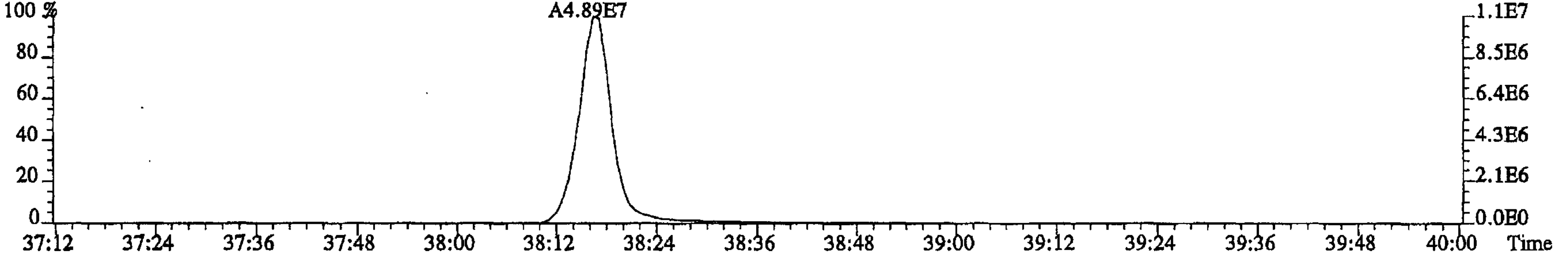
513.6775 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,112.0,1.00%,F,T)

File:21JL10A4D5 #1-228 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES

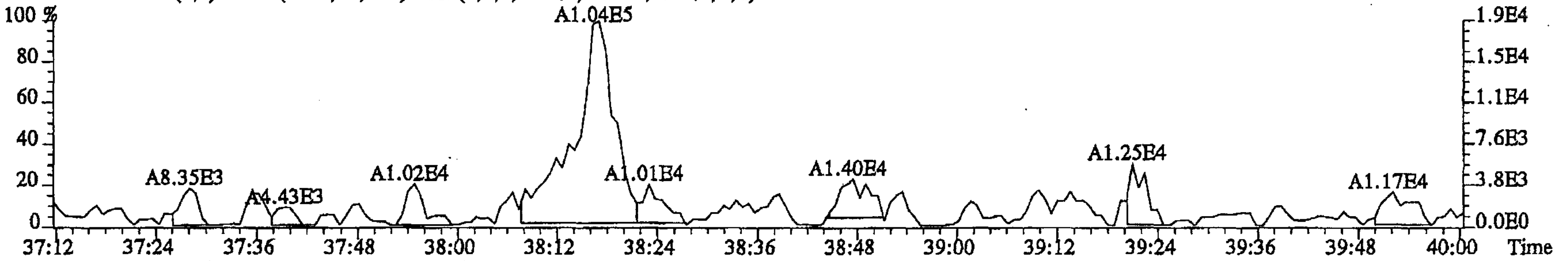
457.7377 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1592.0,1.00%,F,T)



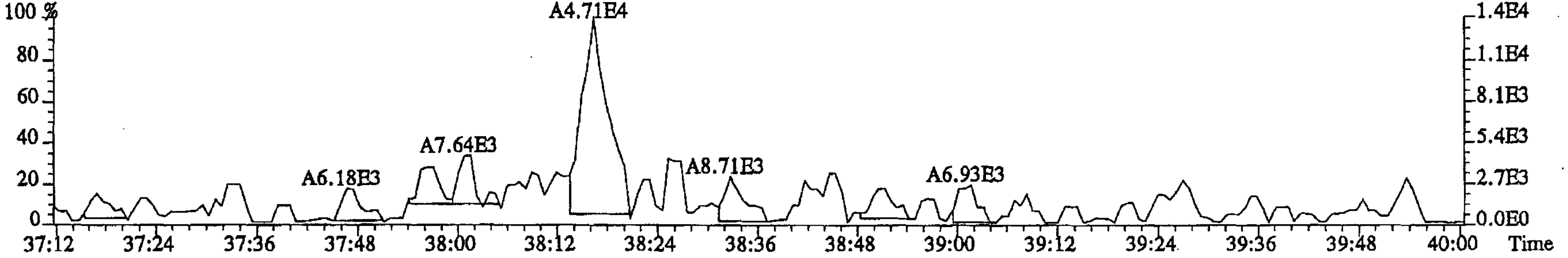
459.7348 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3376.0,1.00%,F,T)



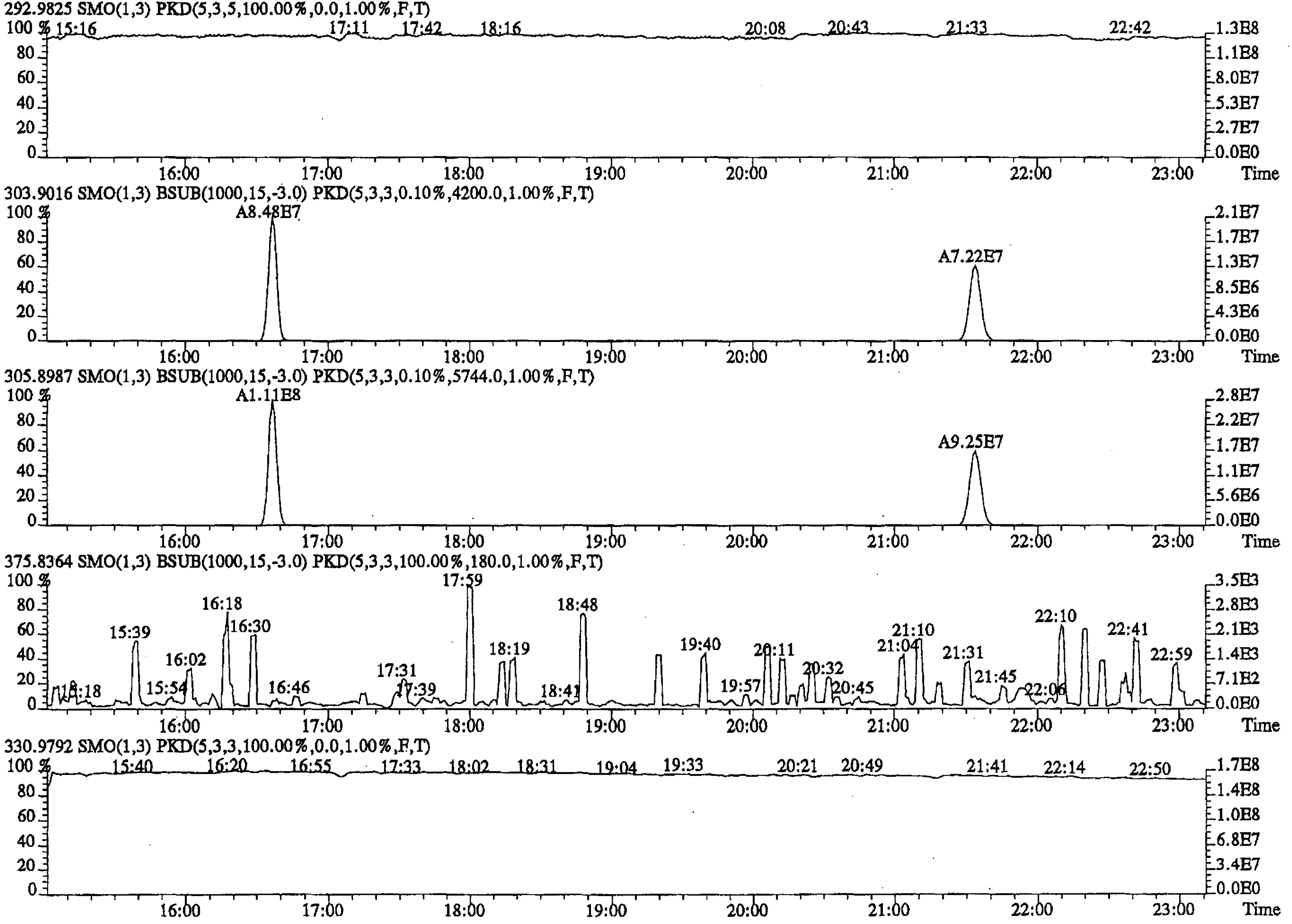
469.7779 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1824.0,1.00%,F,T)



471.7750 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1676.0,1.00%,F,T)

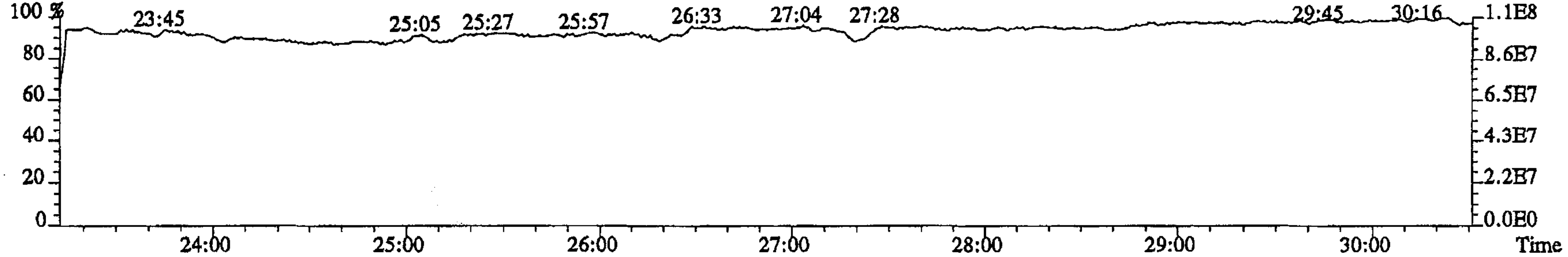


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES

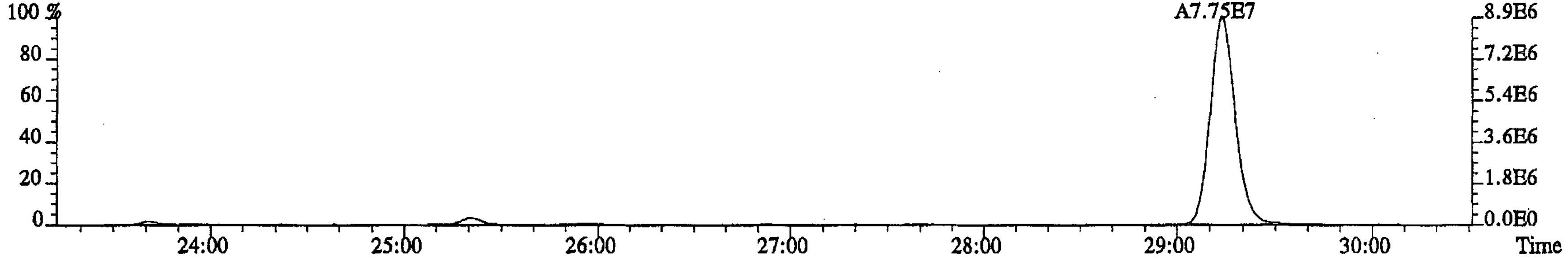


File:21JL10A4D5 #1-470 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES

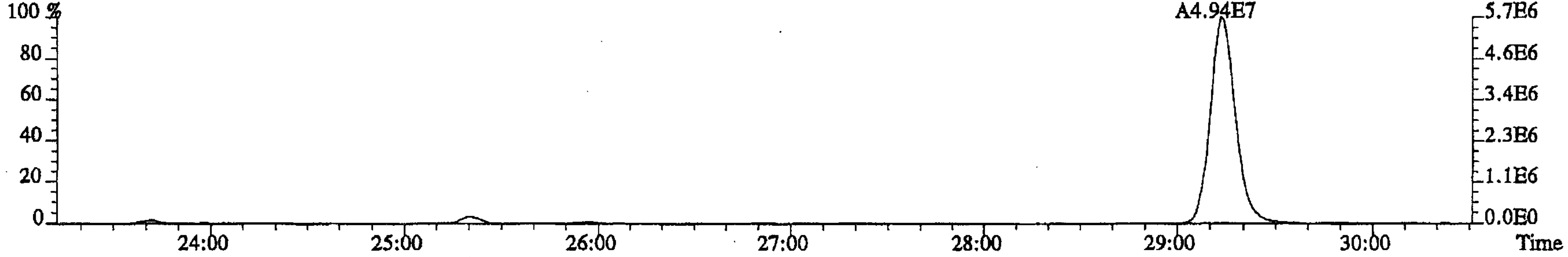
342.9792 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



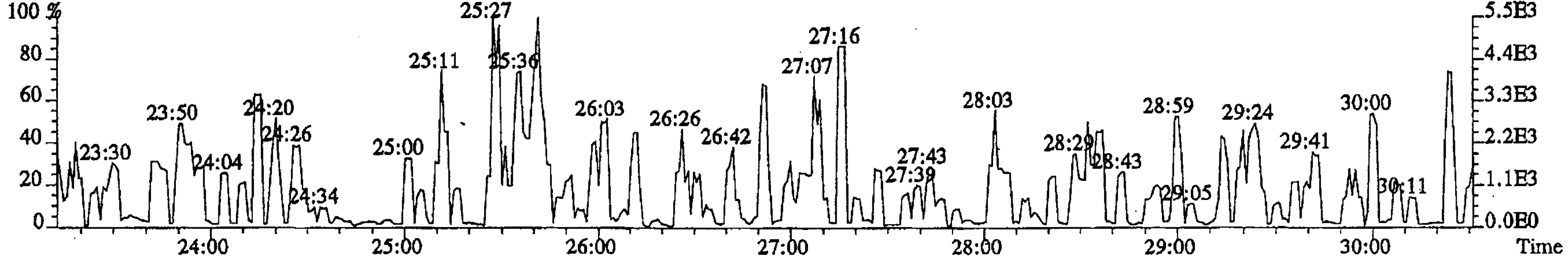
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2832.0,1.00%,F,T)



341.8567 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3324.0,1.00%,F,T)

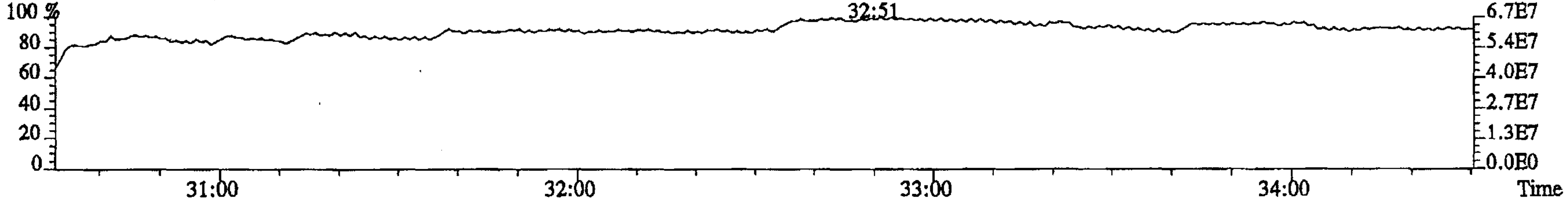


409.7974 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,160.0,1.00%,F,T)

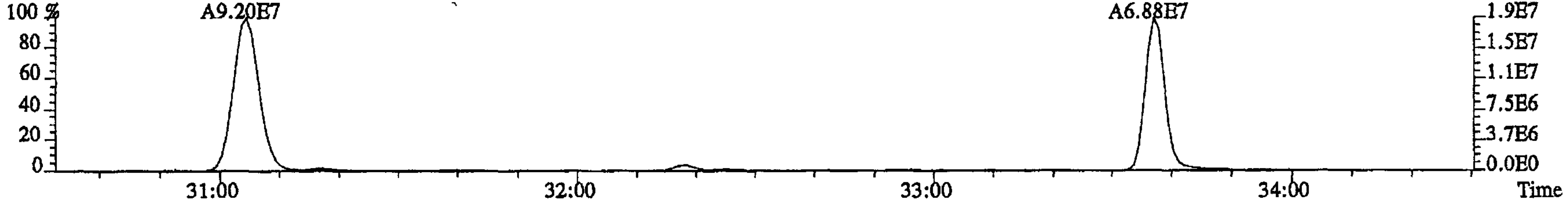


File:21JL10A4D5 #1-286 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES

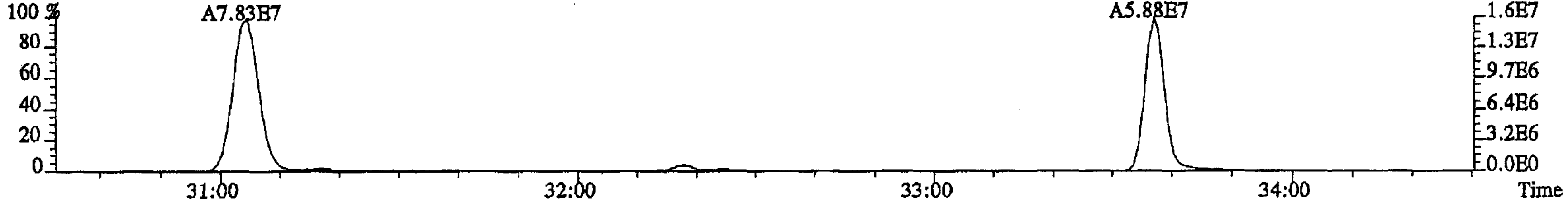
392.9760 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



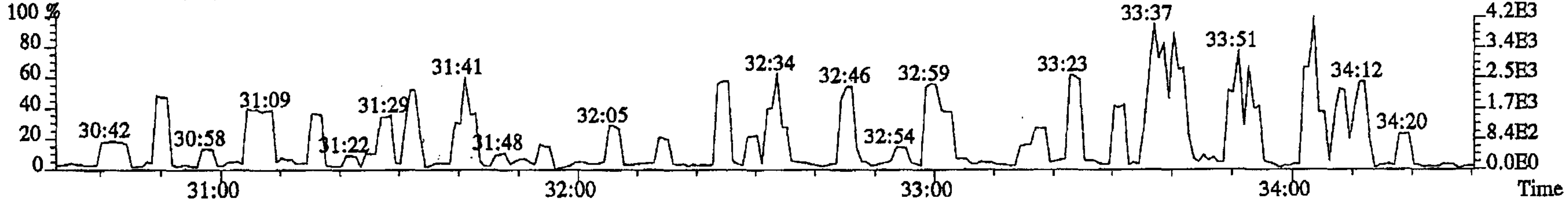
373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14964.0,1.00%,F,T)



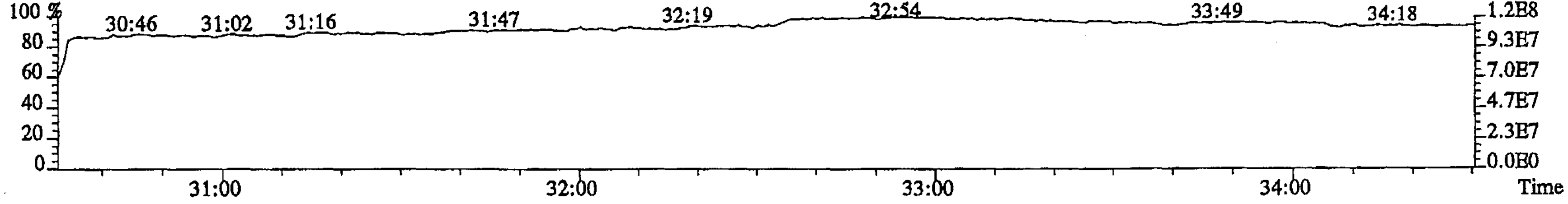
375.8178 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10284.0,1.00%,F,T)



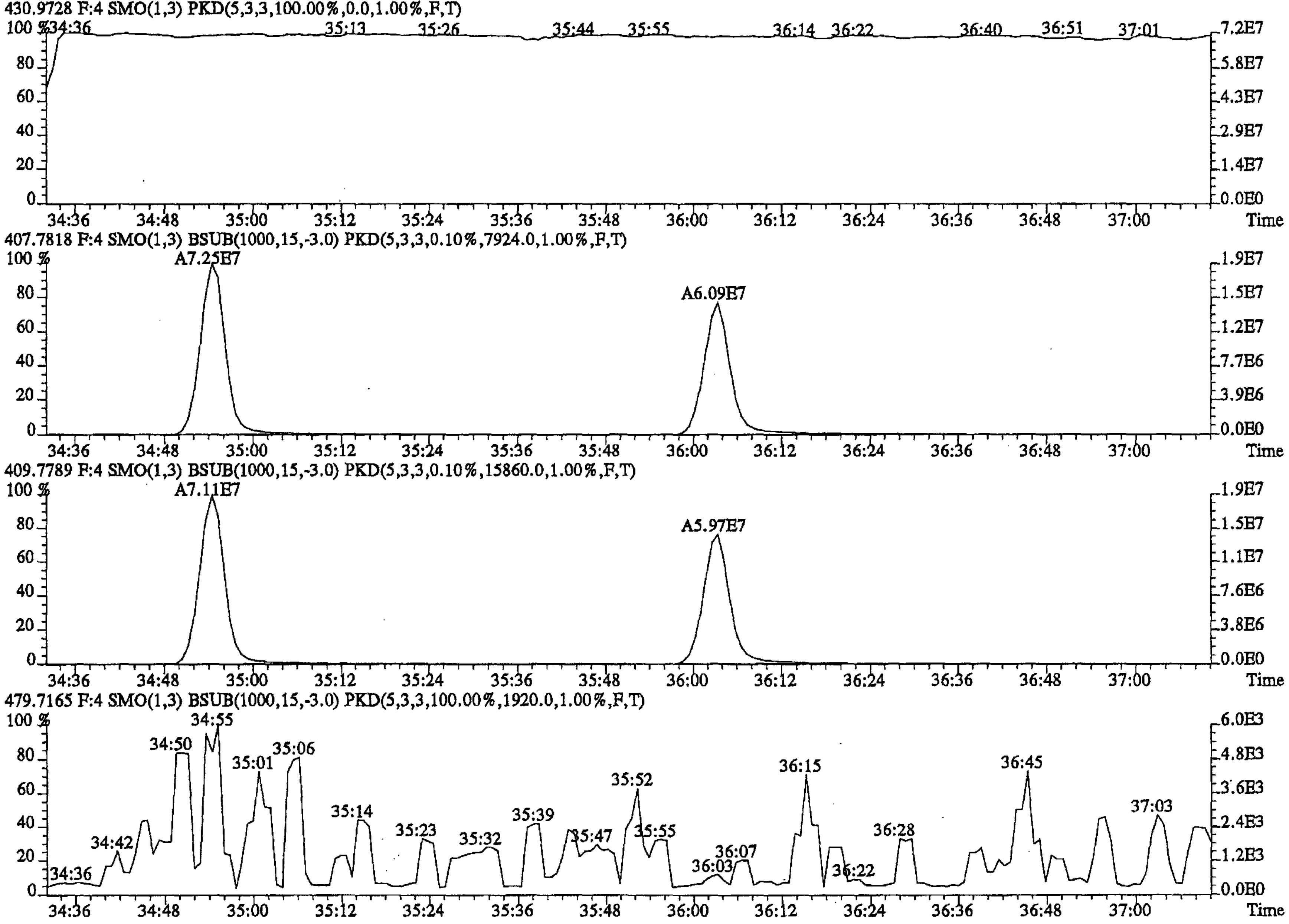
445.7555 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,192.0,1.00%,F,T)



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

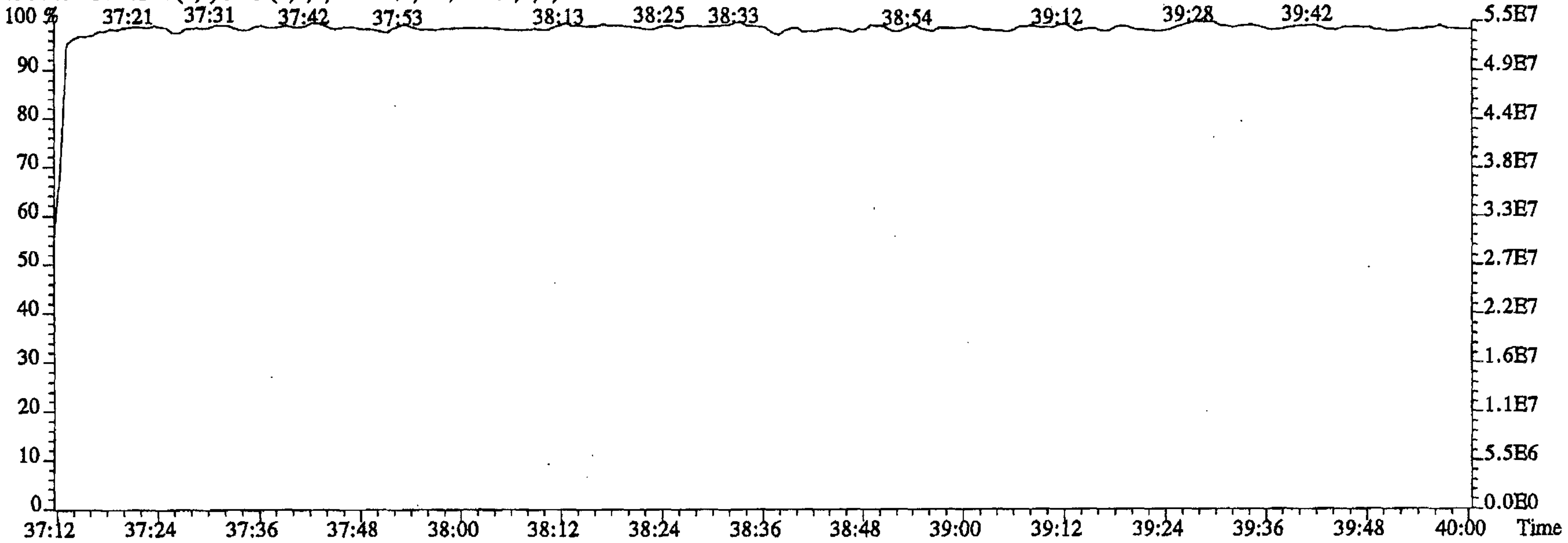


File:21JL10A4D5 #1-200 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES

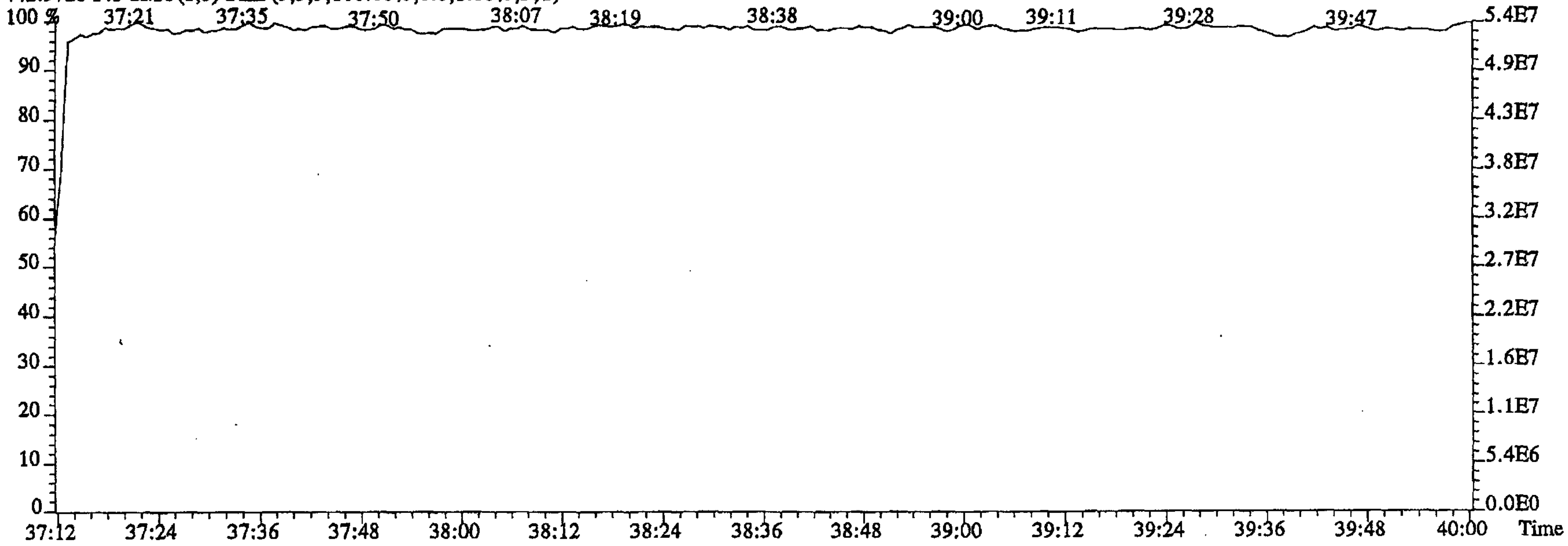


File:21JL10A4D5 #1-228 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES

454.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

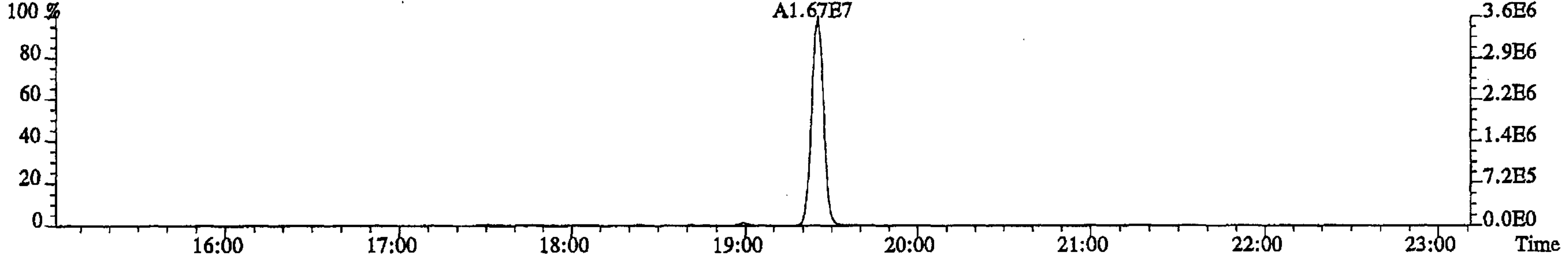


442.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

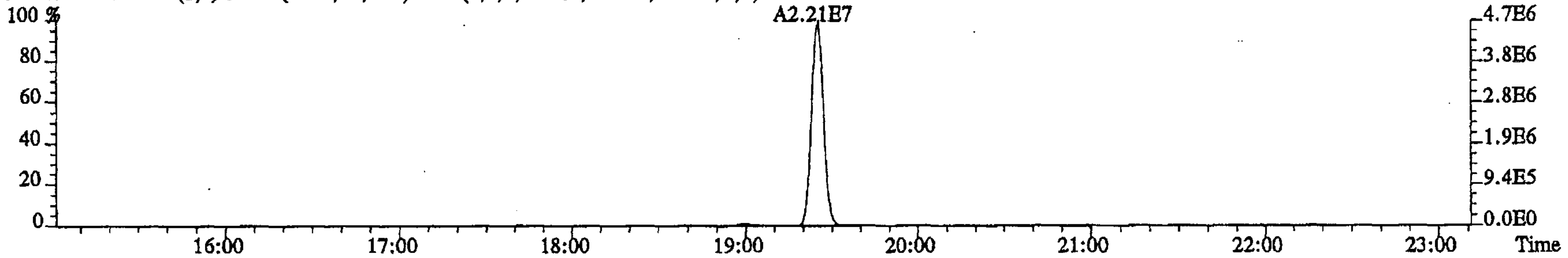


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

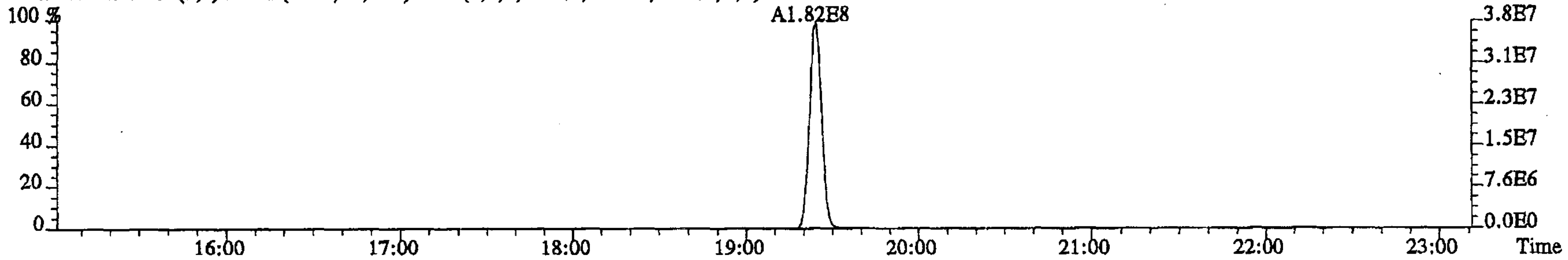
303.9016 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2796.0,1.00%,F,T)



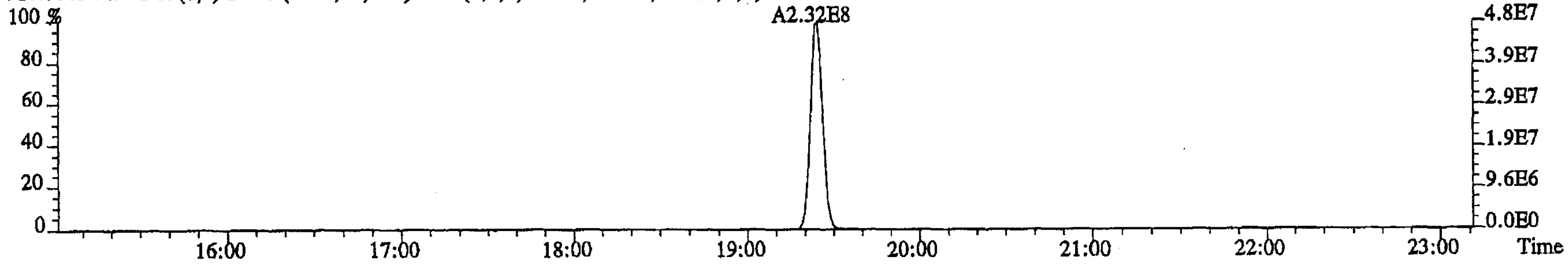
305.8987 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4060.0,1.00%,F,T)



315.9419 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5760.0,1.00%,F,T)

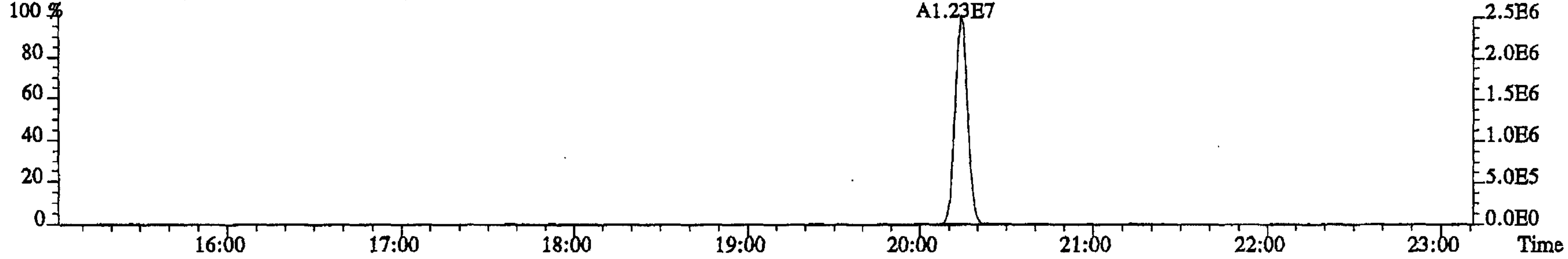


317.9389 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6012.0,1.00%,F,T)

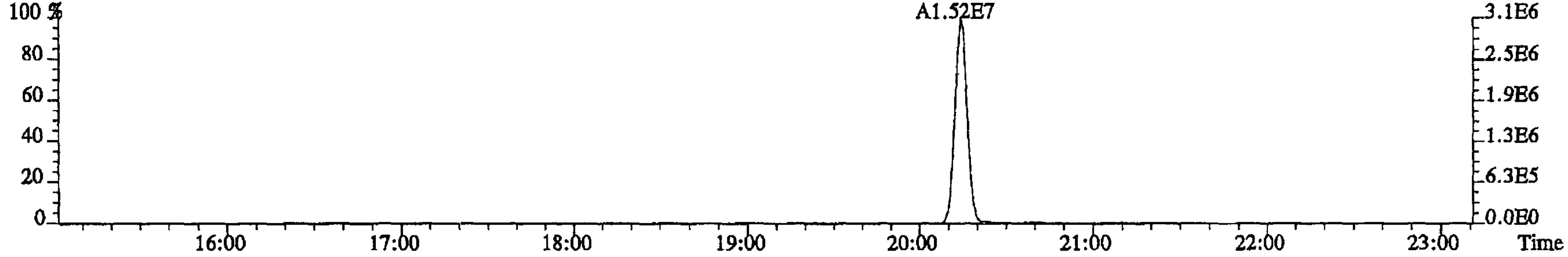


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

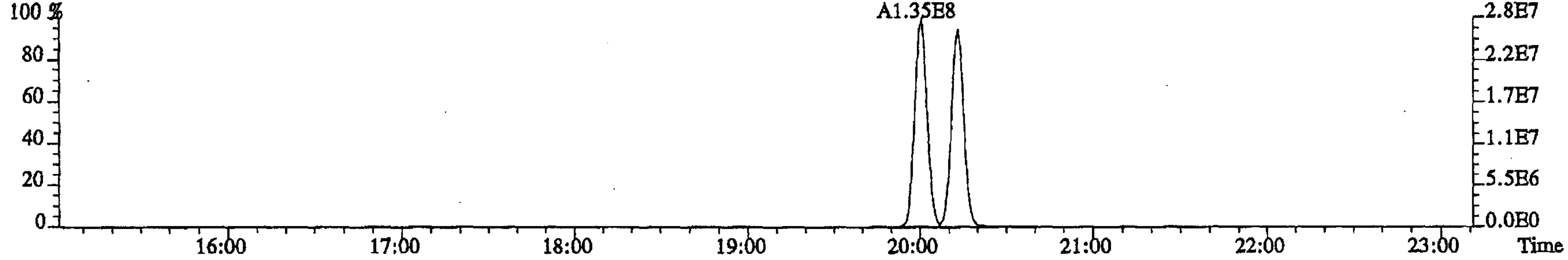
319.8965 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2156.0,1.00%,F,T)



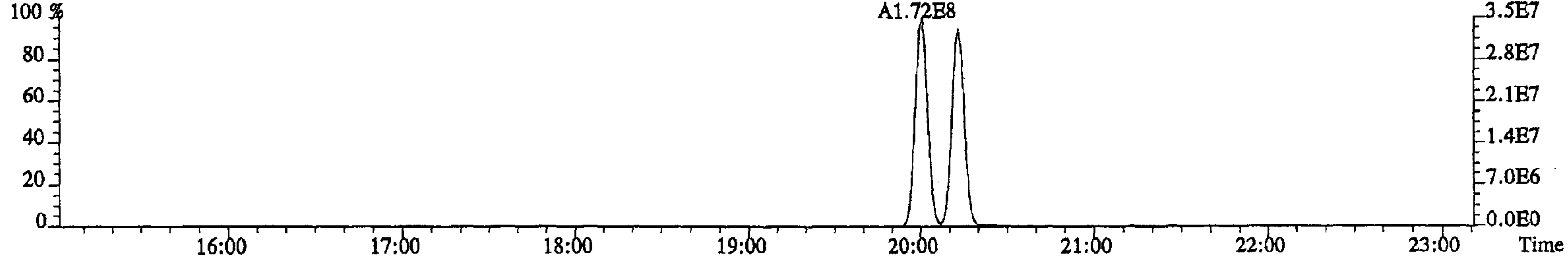
321.8936 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2876.0,1.00%,F,T)



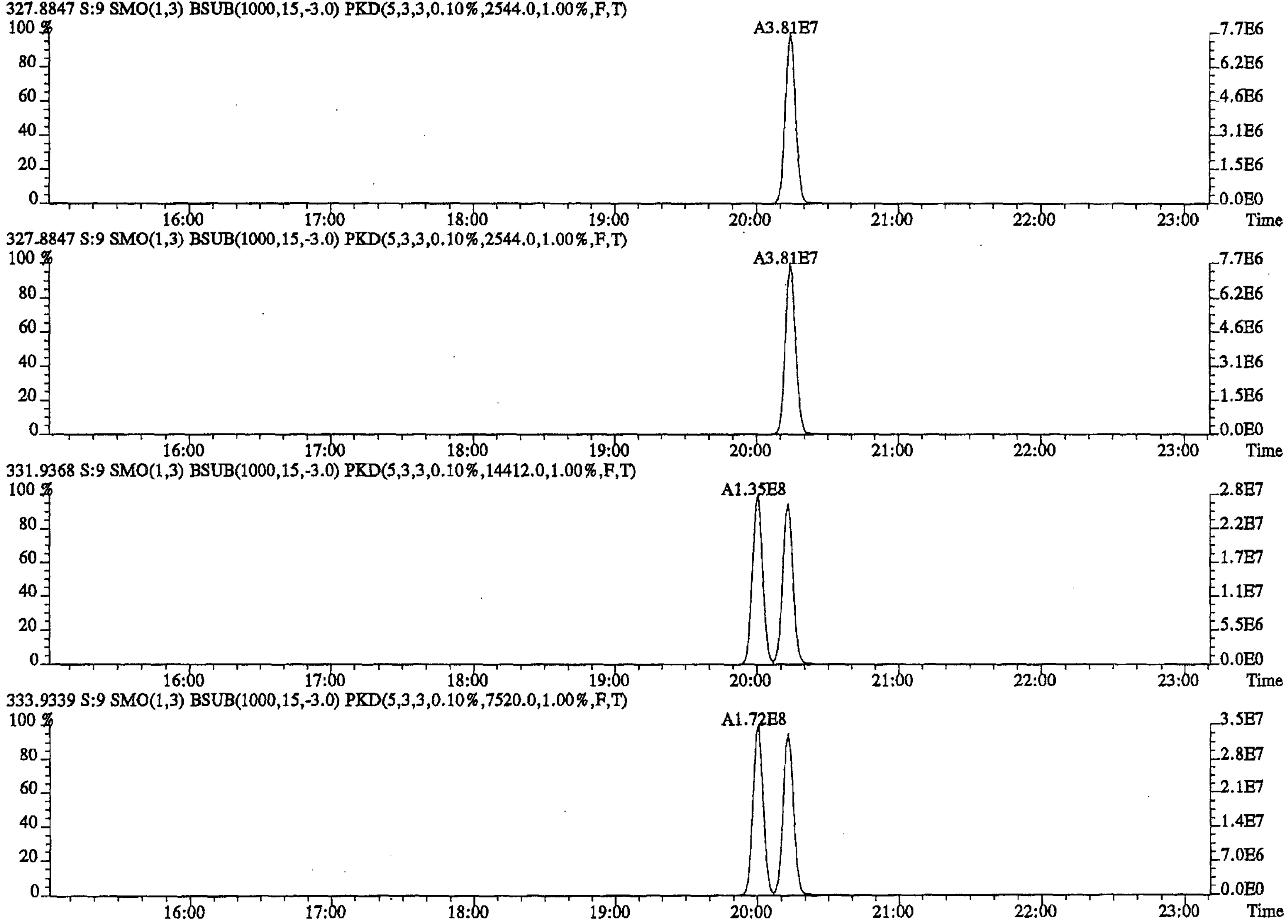
331.9368 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14412.0,1.00%,F,T)



333.9339 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7520.0,1.00%,F,T)



File:21JL10A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES



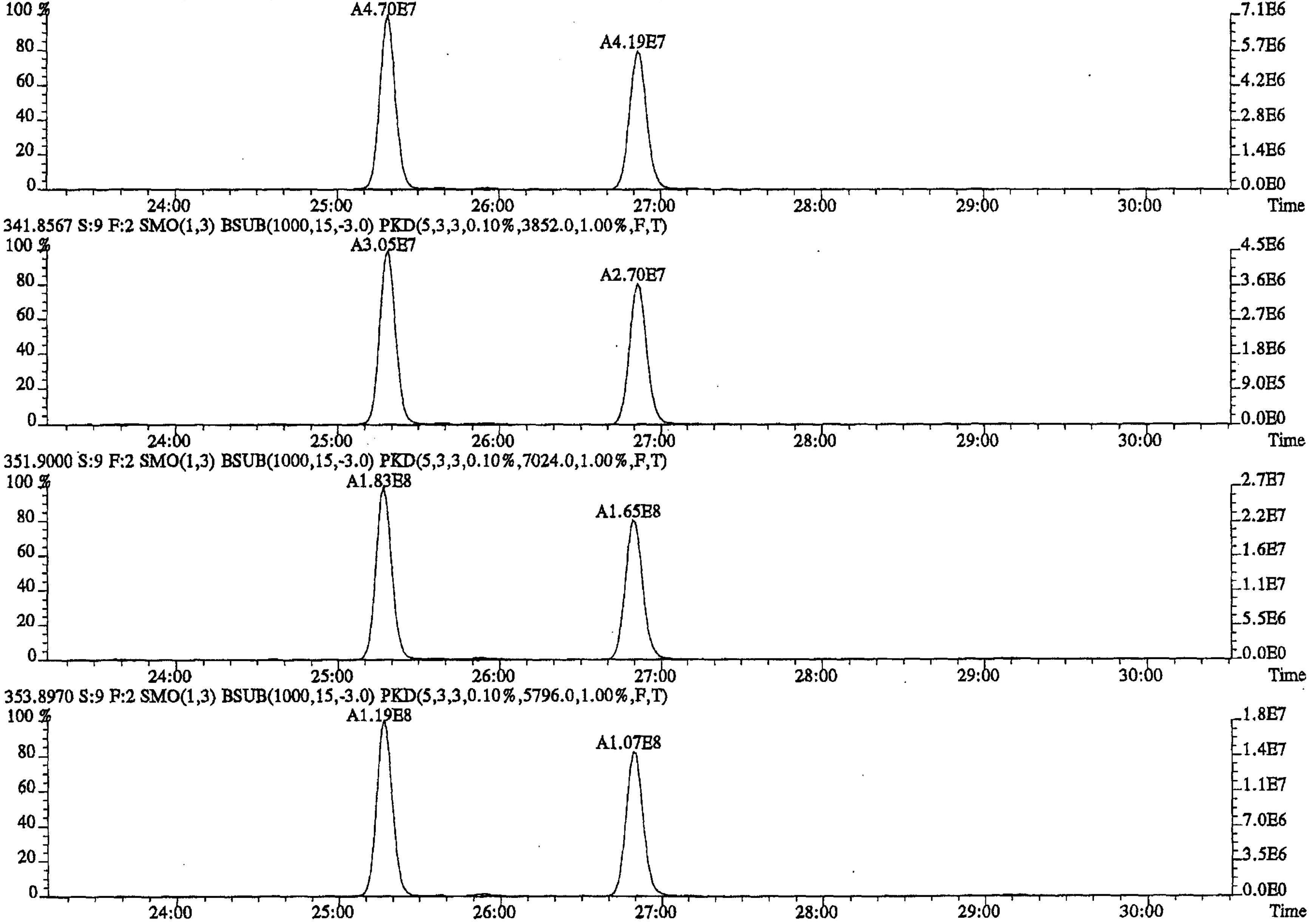
327.8847 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2544.0,1.00%,F,T)

327.8847 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2544.0,1.00%,F,T)

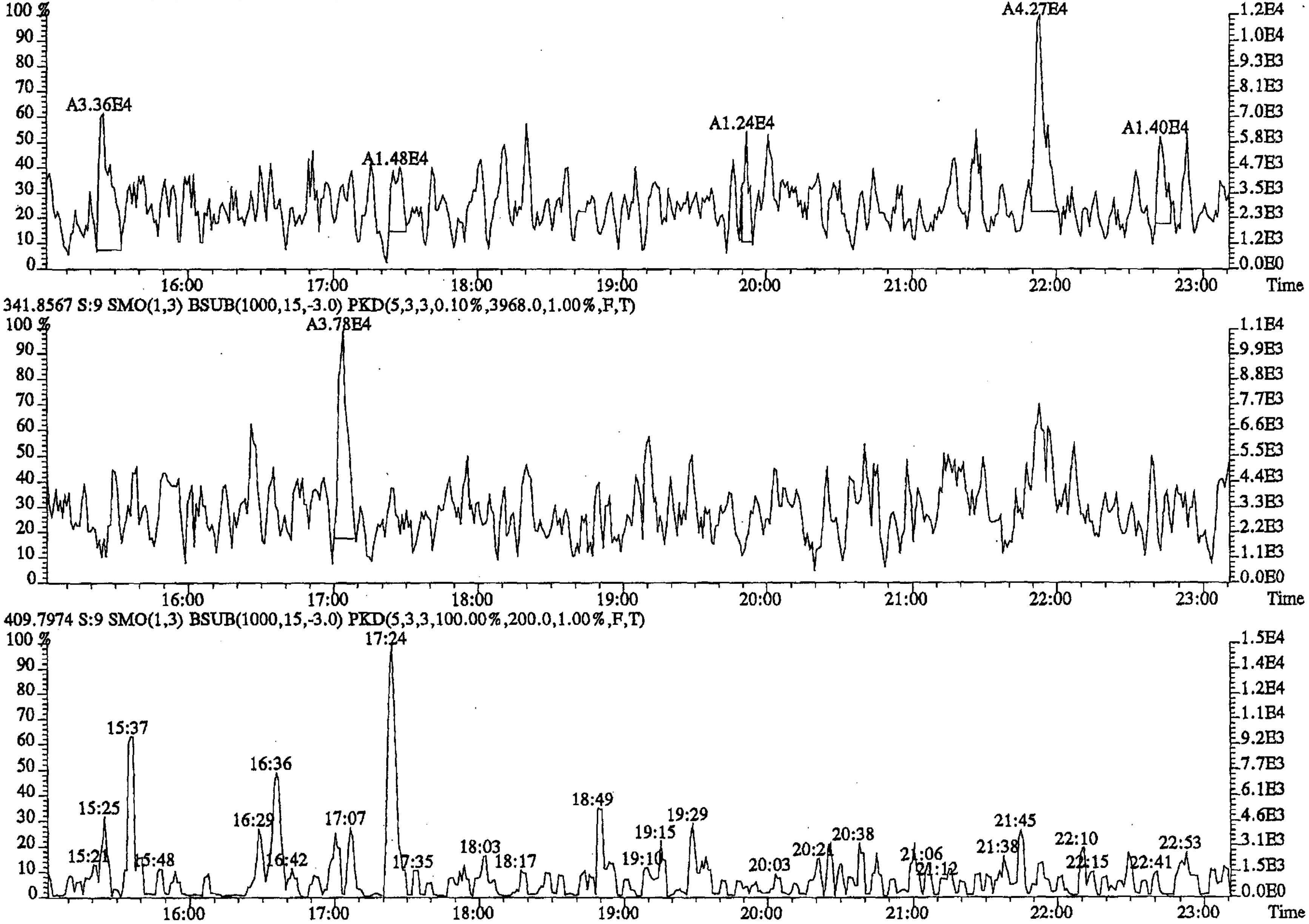
331.9368 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14412.0,1.00%,F,T)

333.9339 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7520.0,1.00%,F,T)

File:21JL10A4D5 #1-470 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES
339.8597 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4500.0,1.00%,F,T)



File:21JL10A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES



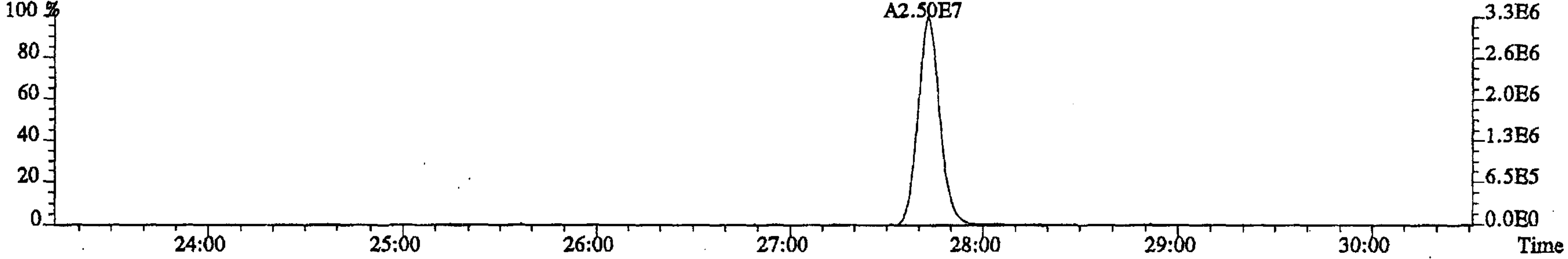
339.8597 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3720.0,1.00%,F,T)

341.8567 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3968.0,1.00%,F,T)

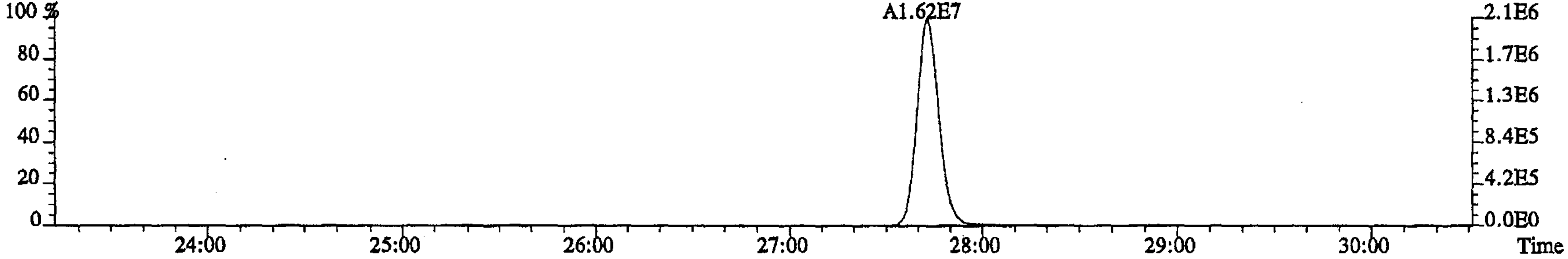
409.7974 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,200.0,1.00%,F,T)

File:21JL10A4D5 #1-470 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

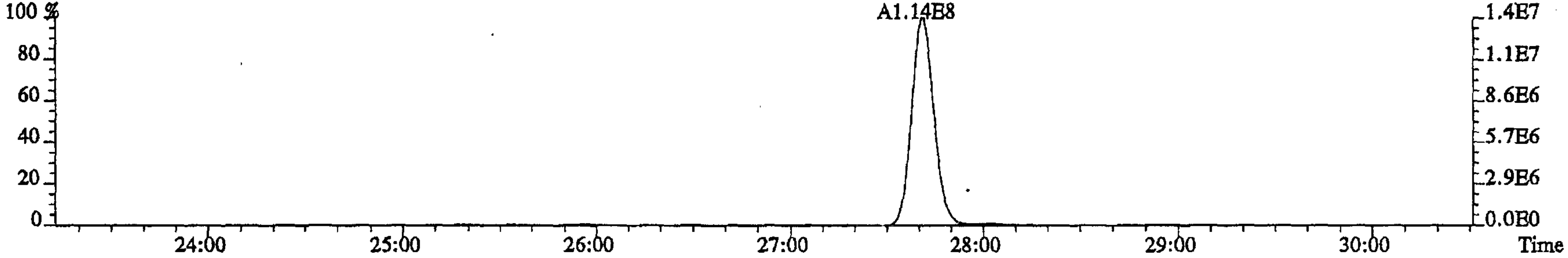
355.8546 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3228.0,1.00%,F,T)



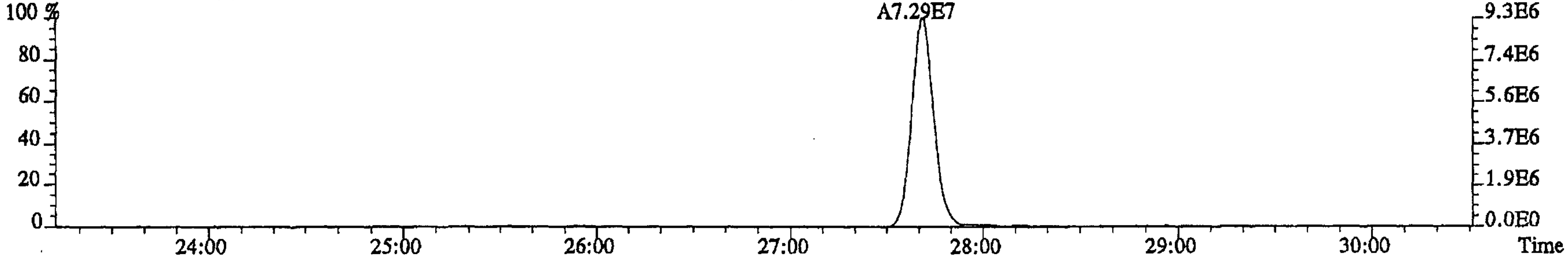
357.8516 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1244.0,1.00%,F,T)



367.8949 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3720.0,1.00%,F,T)

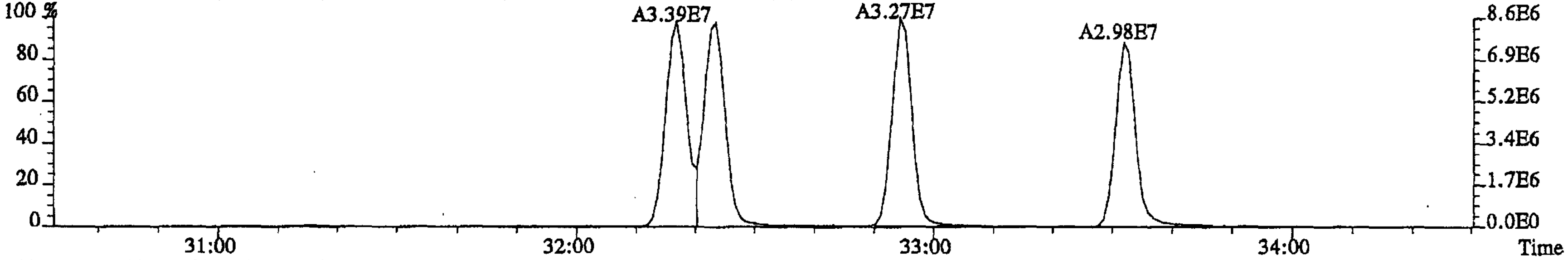


369.8919 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2124.0,1.00%,F,T)

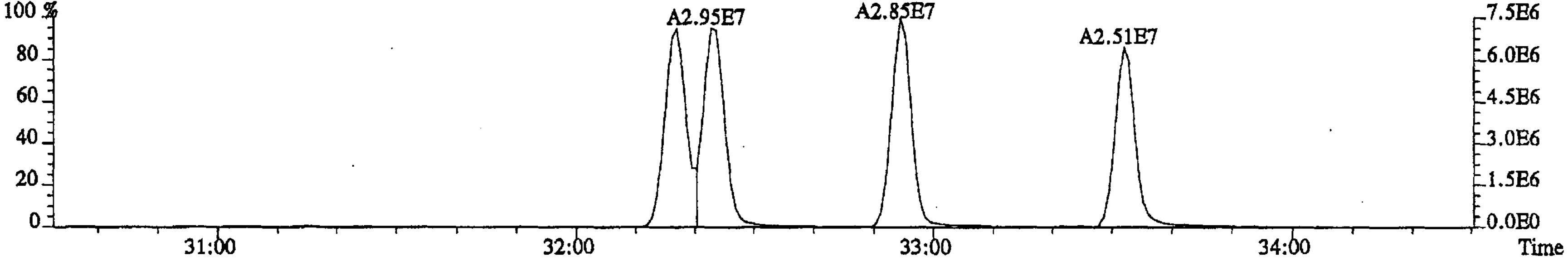


File:21JL10A4D5 #1-286 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

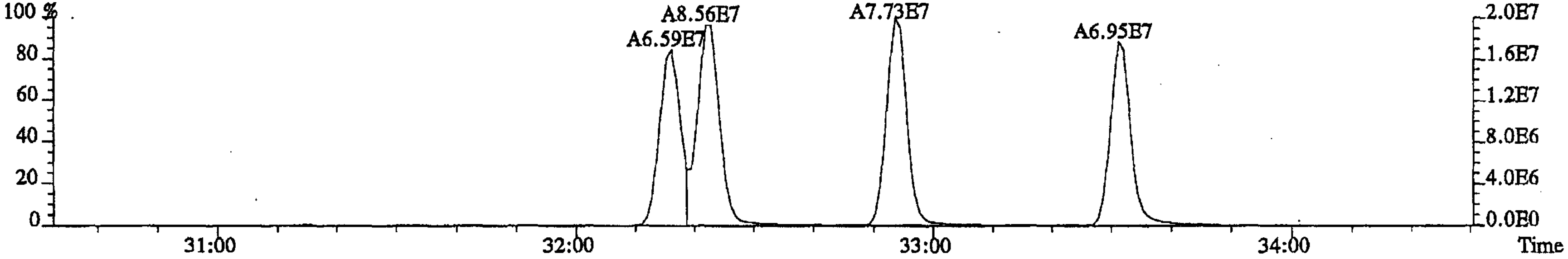
373.8208 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8664.0,1.00%,F,T)



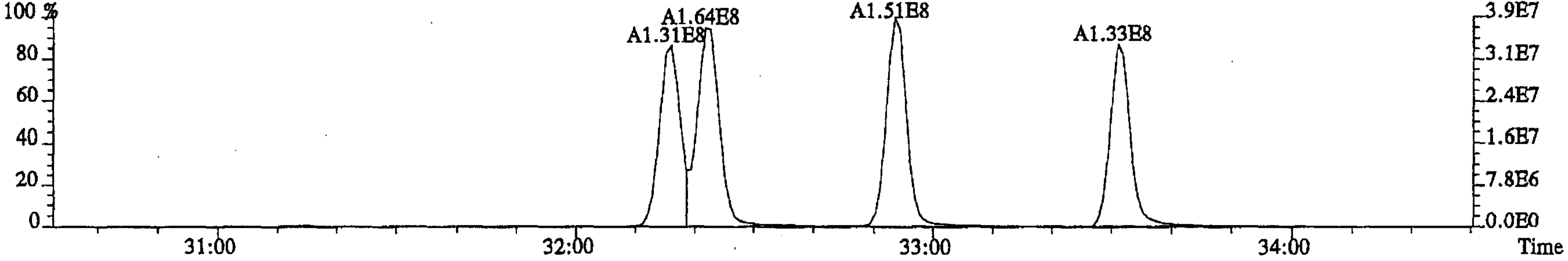
375.8178 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6628.0,1.00%,F,T)



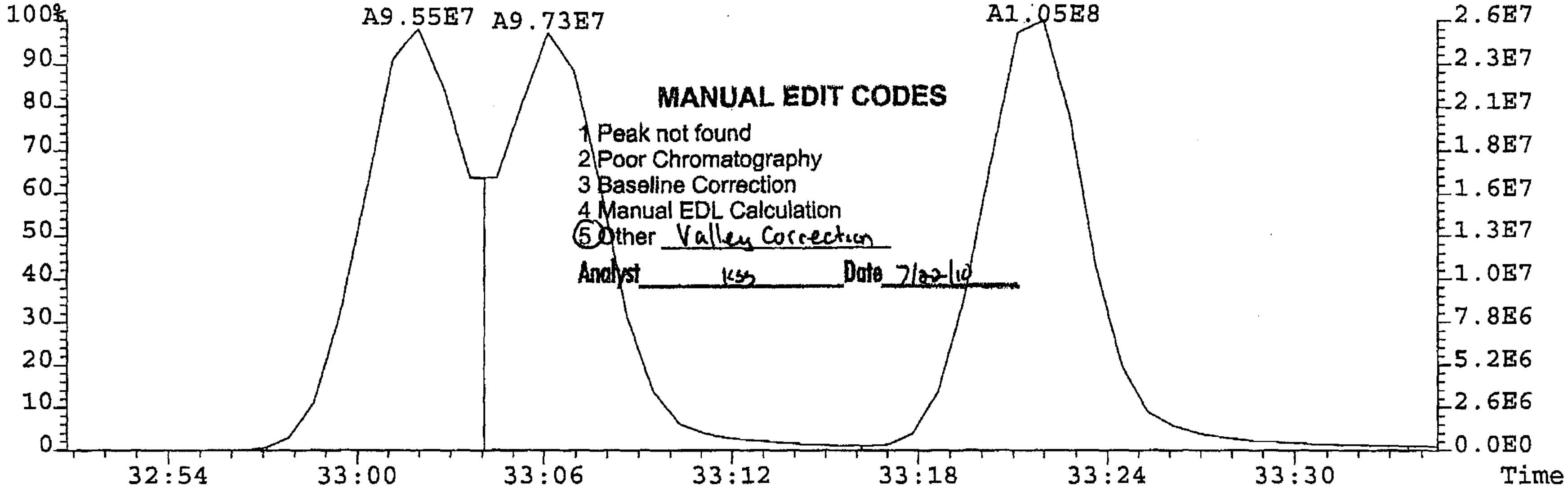
383.8639 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12608.0,1.00%,F,T)



385.8610 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26652.0,1.00%,F,T)



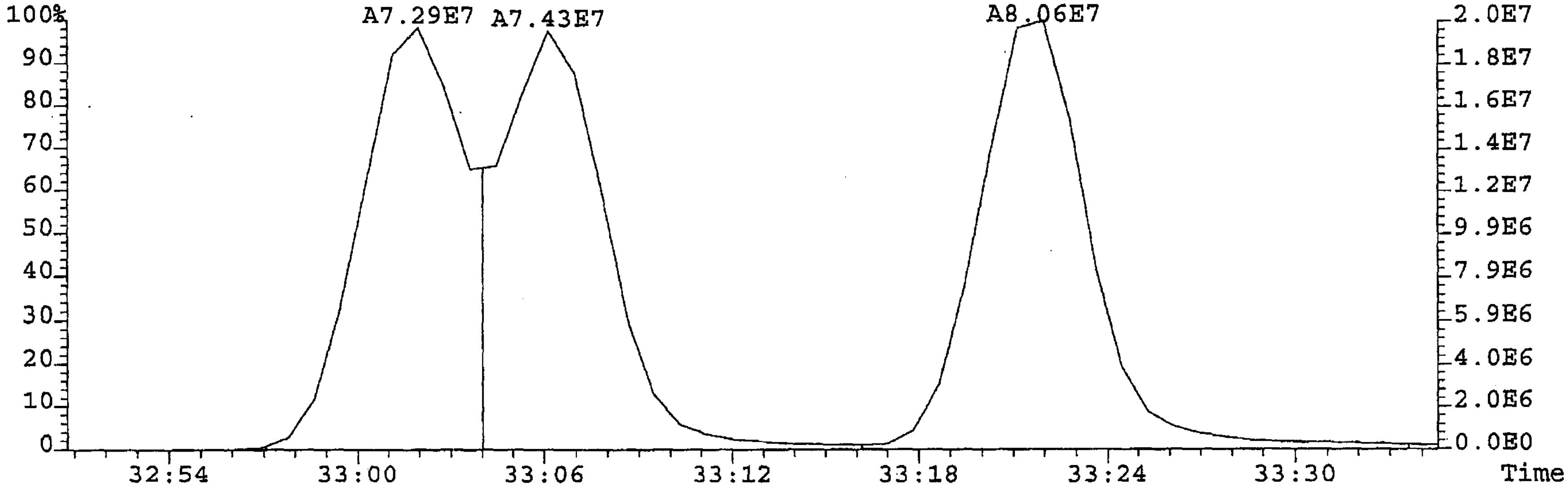
File:21JL10A4D5 #1-286 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES
401.8559 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4356.0,1.00%,F,T)



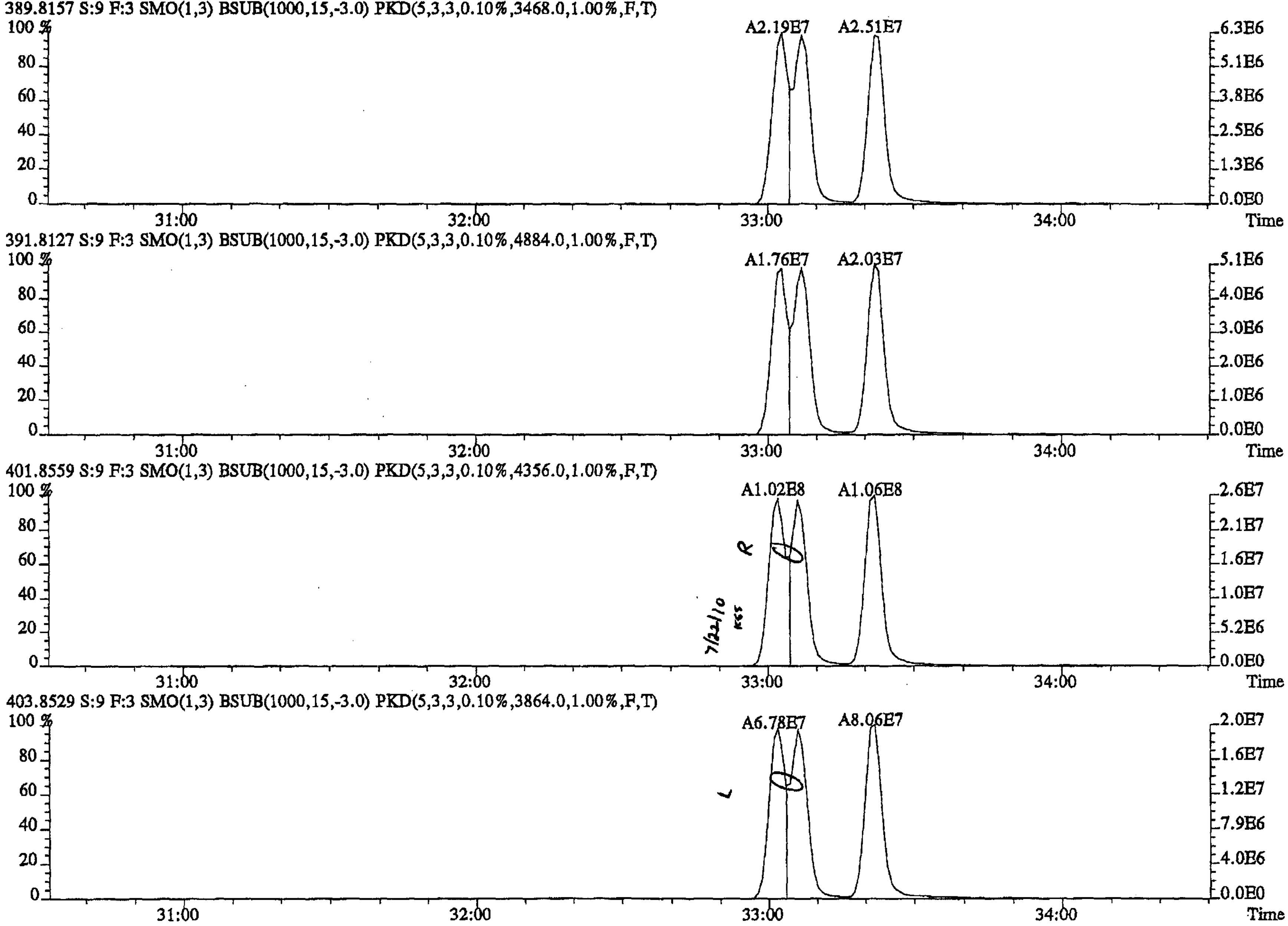
MANUAL EDIT CODES

1 Peak not found
2 Poor Chromatography
3 Baseline Correction
4 Manual EDL Calculation
⑤ Other Valley Correction
Analyst kss Date 7/22/10

403.8529 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3864.0,1.00%,F,T)



File:21JL10A4D5 #1-286 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES



389.8157 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3468.0,1.00%,F,T)

391.8127 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4884.0,1.00%,F,T)

401.8559 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4356.0,1.00%,F,T)

403.8529 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3864.0,1.00%,F,T)

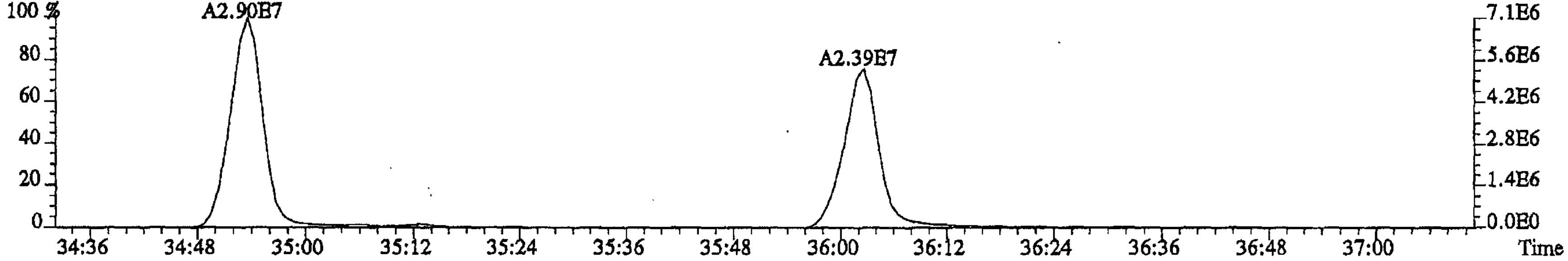
7/22/10
KSS

R

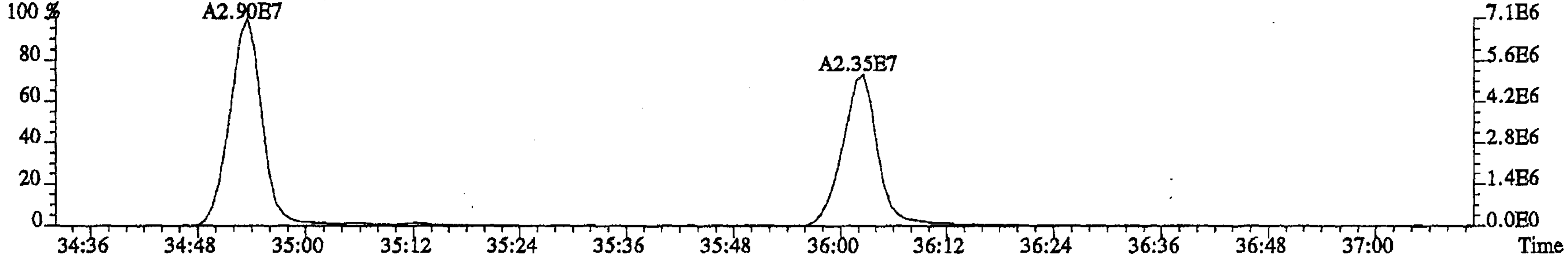
L

File:21JL10A4D5 #1-201 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

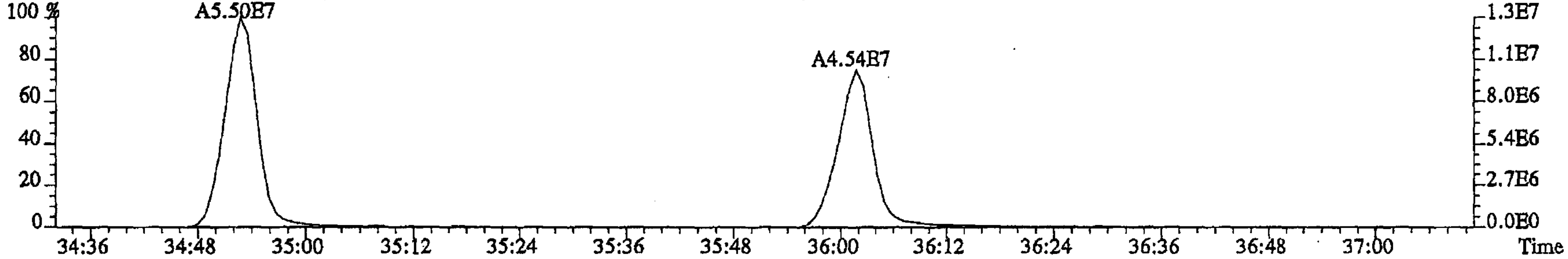
407.7818 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6948.0,1.00%,F,T)



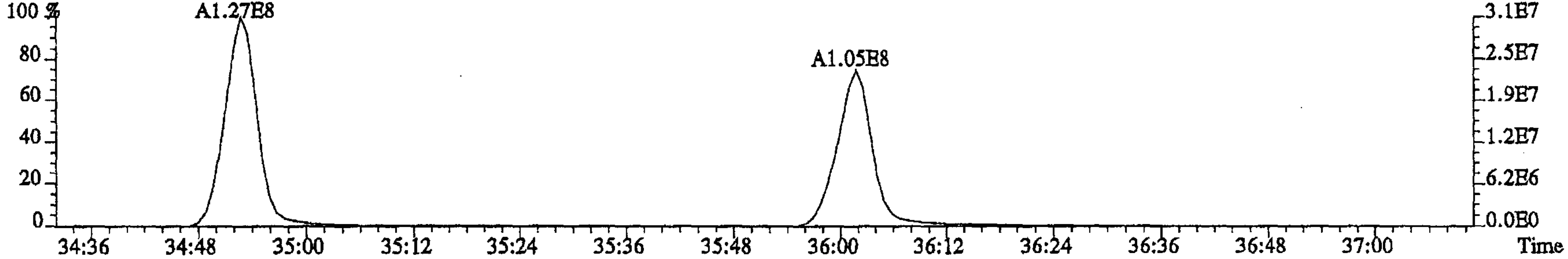
409.7789 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10344.0,1.00%,F,T)



417.8253 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14124.0,1.00%,F,T)

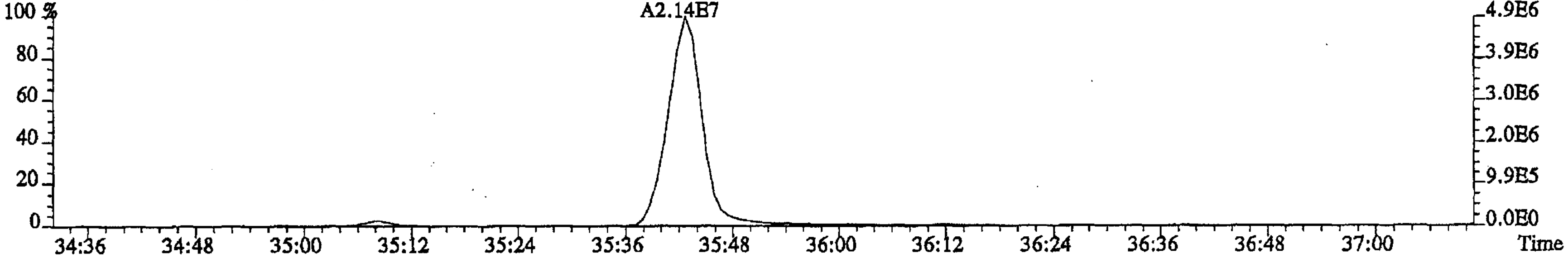


419.8220 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,29228.0,1.00%,F,T)

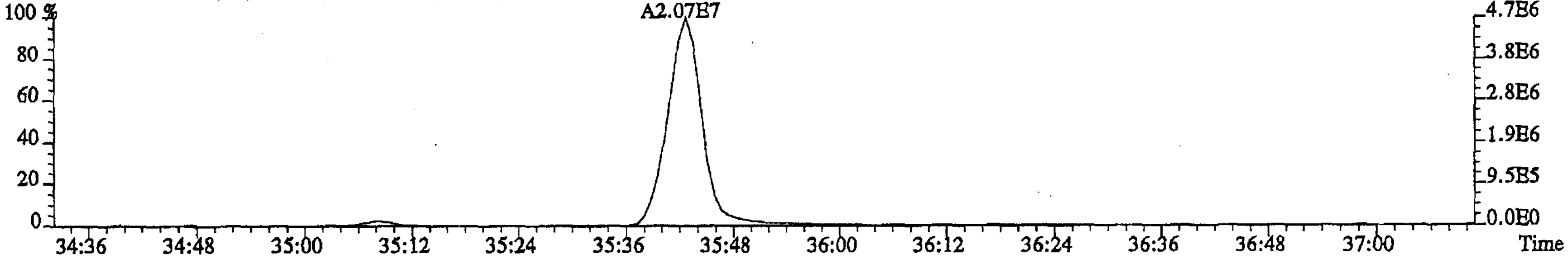


File:21JL10A4D5 #1-201 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

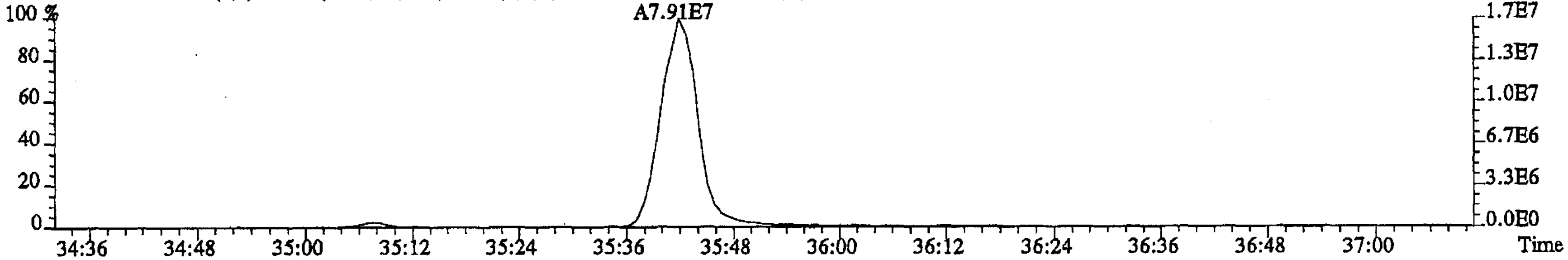
423.7766 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5152.0,1.00%,F,T)



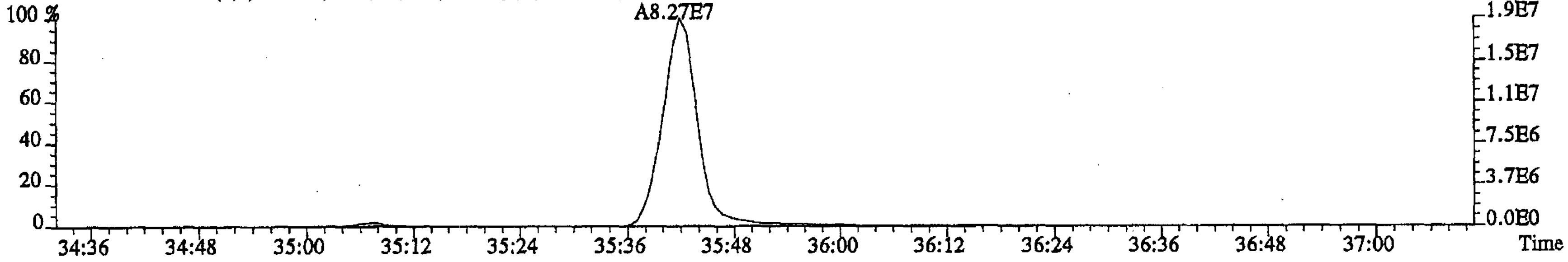
425.7737 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6224.0,1.00%,F,T)



435.8169 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14500.0,1.00%,F,T)

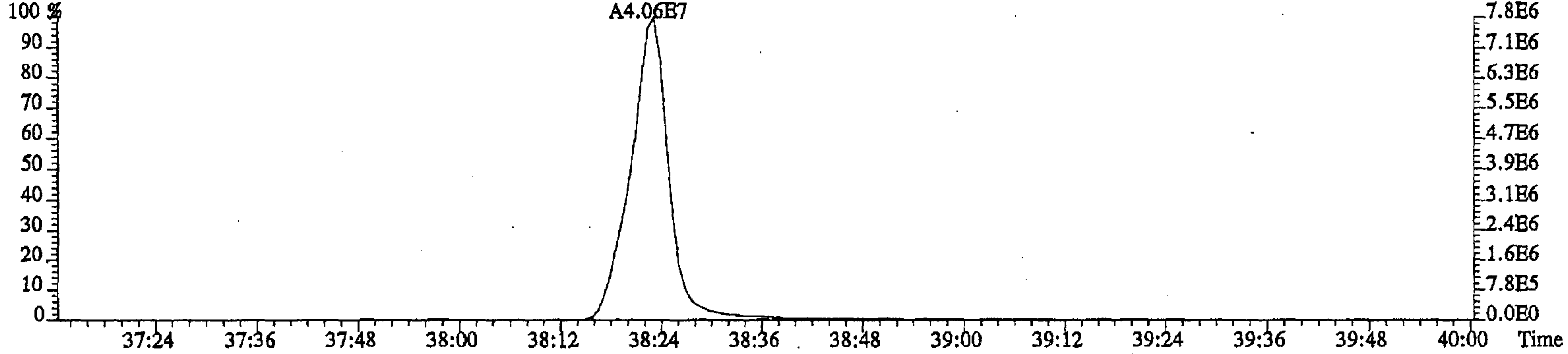


437.8140 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17552.0,1.00%,F,T)

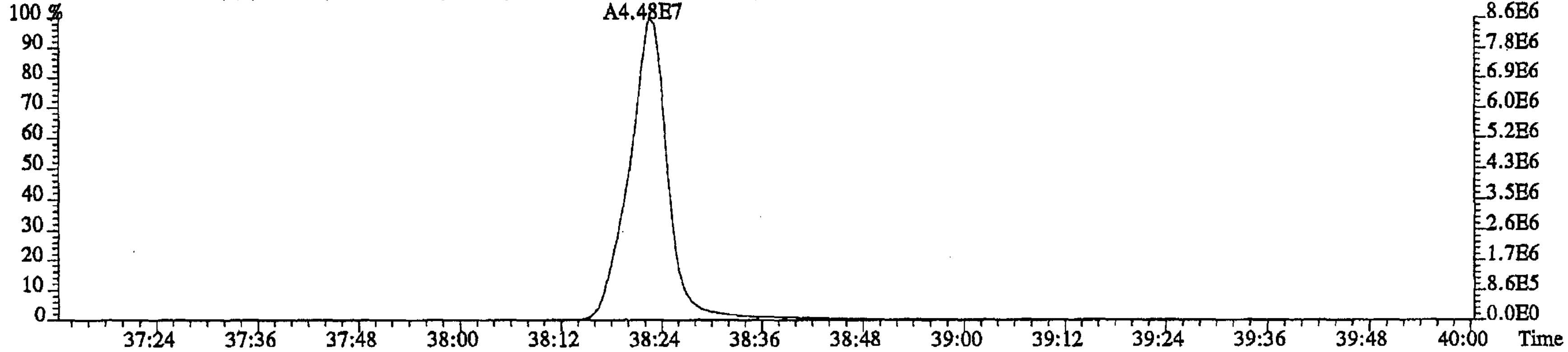


File:21JL10A4D5 #1-227 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

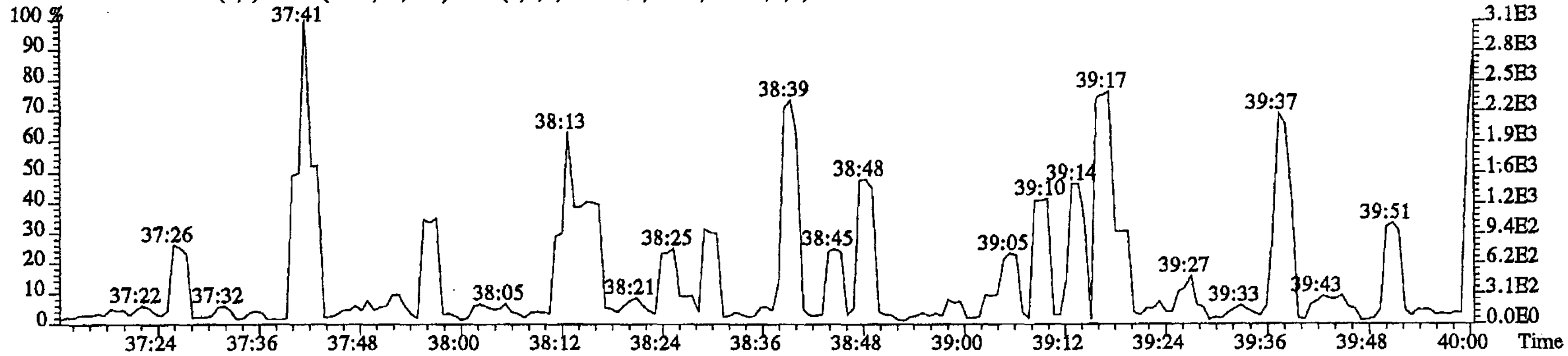
441.7428 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4172.0,1.00%,F,T)



443.7399 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3848.0,1.00%,F,T)

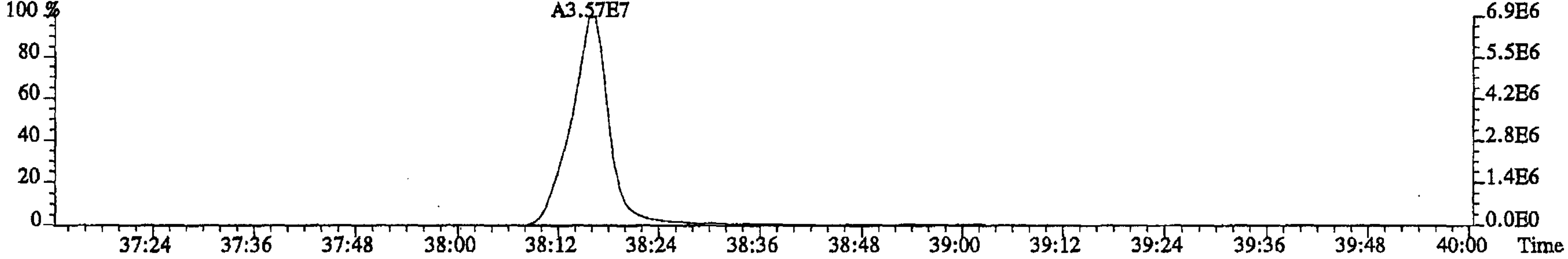


513.6775 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,132.0,1.00%,F,T)

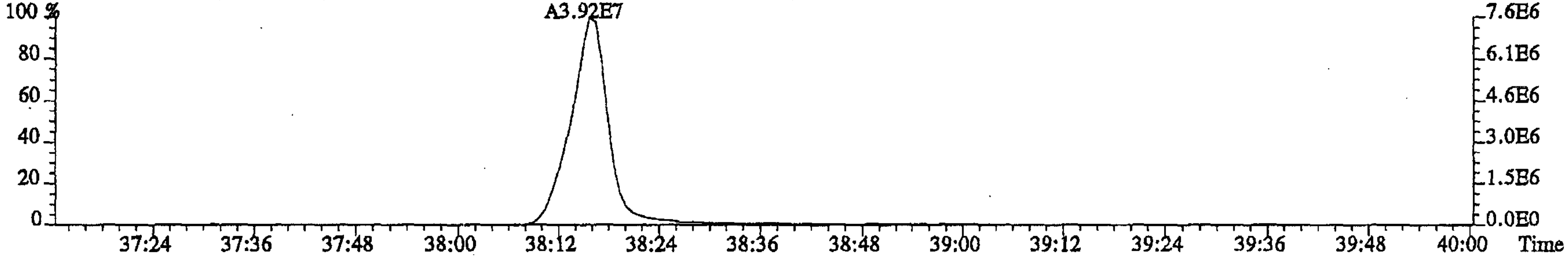


File:21JL10A4D5 #1-227 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

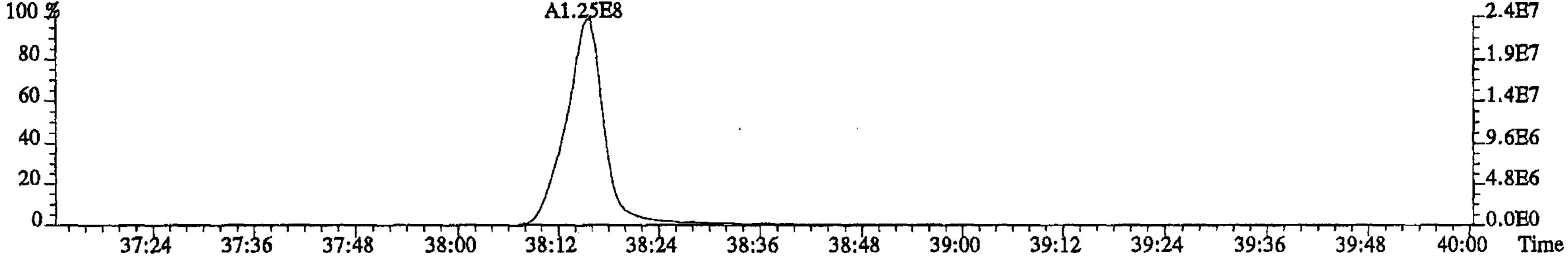
457.7377 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4572.0,1.00%,F,T)



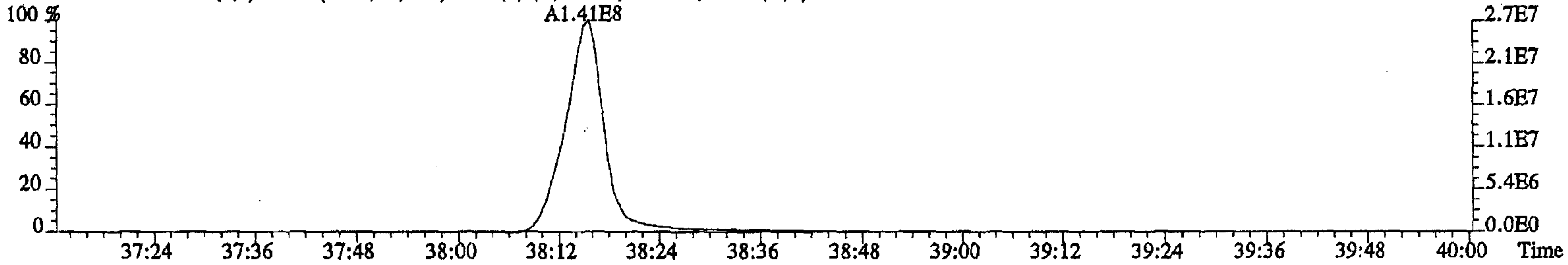
459.7348 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3480.0,1.00%,F,T)



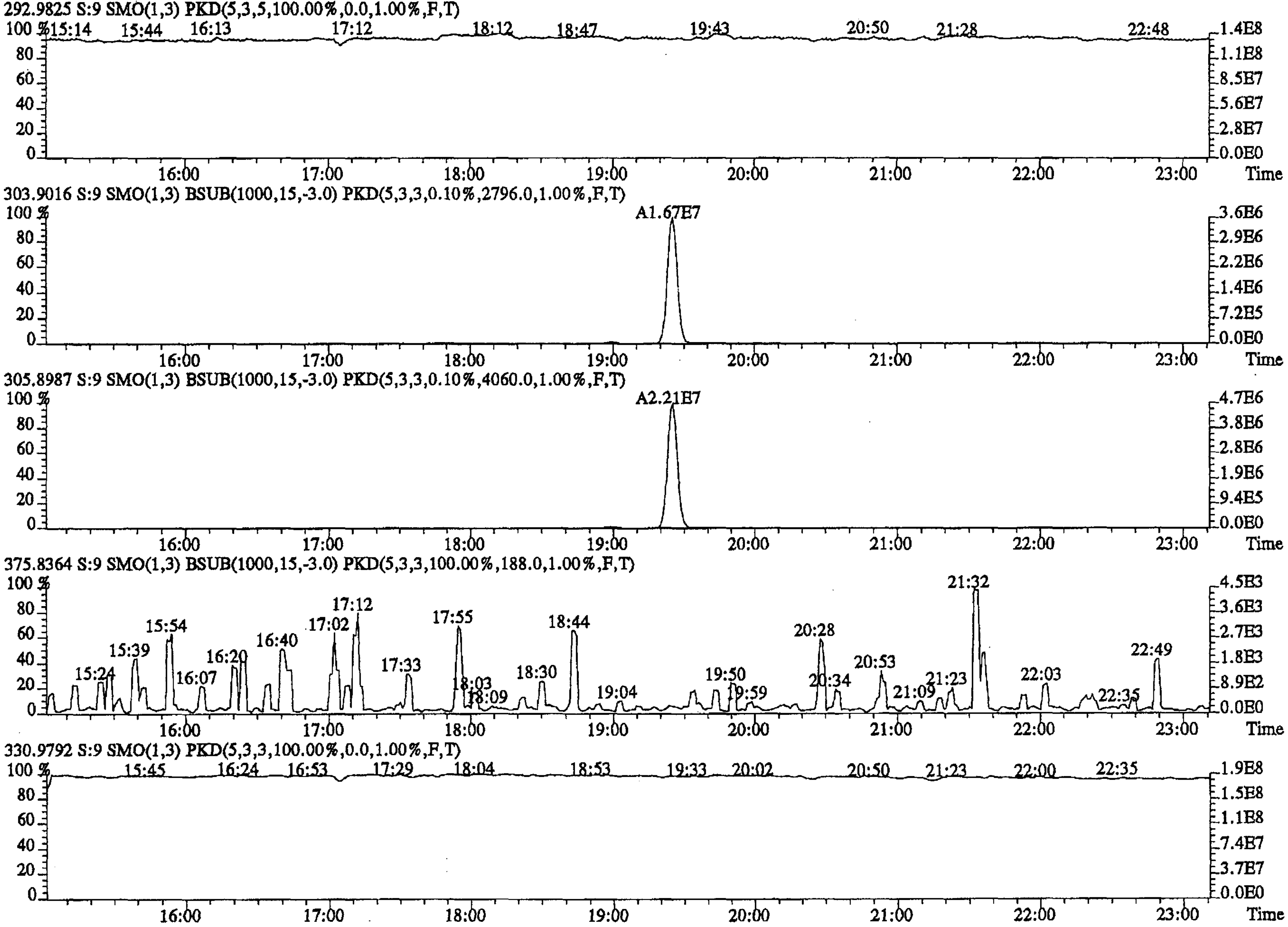
469.7779 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7336.0,1.00%,F,T)



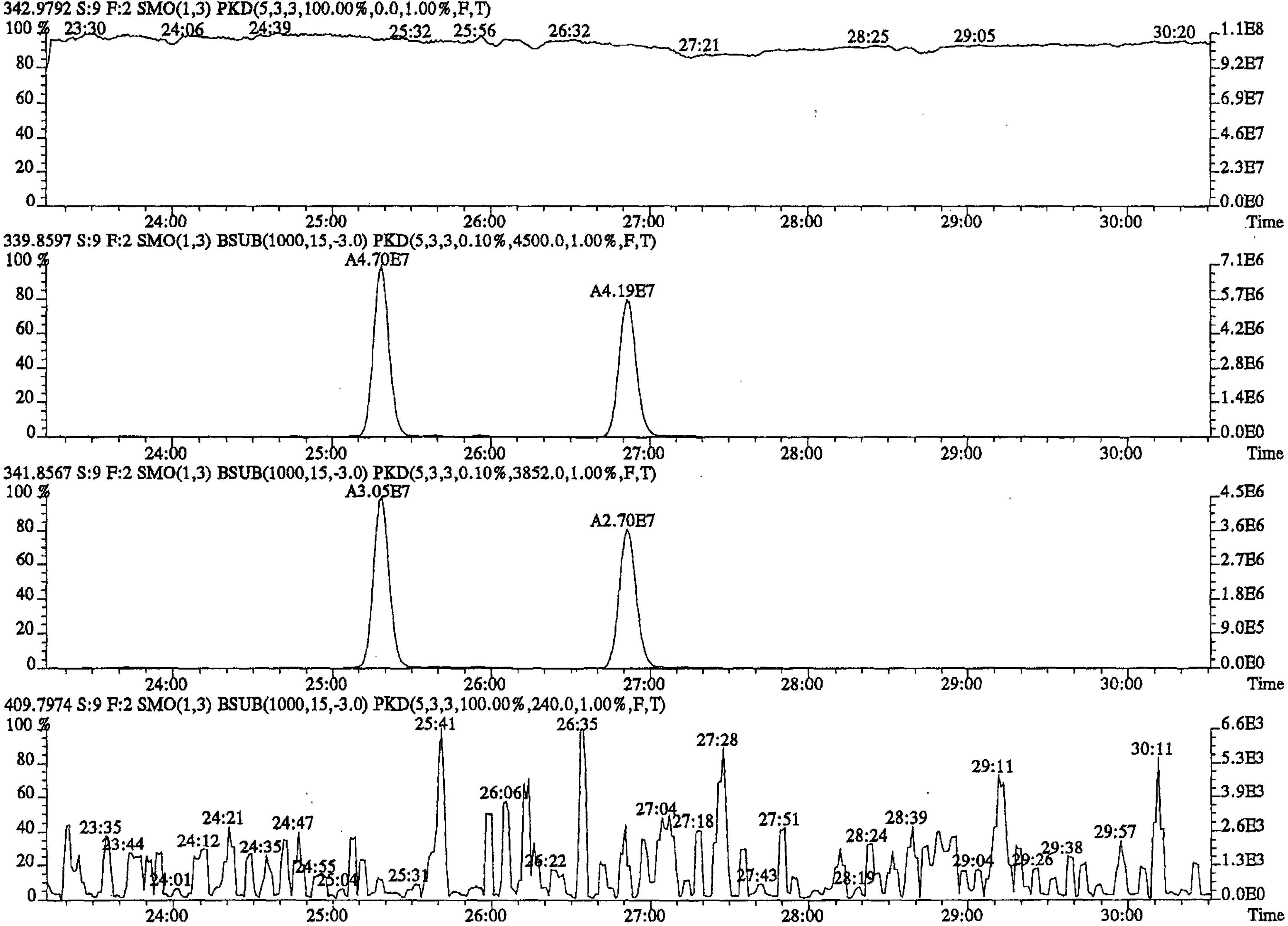
471.7750 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15132.0,1.00%,F,T)

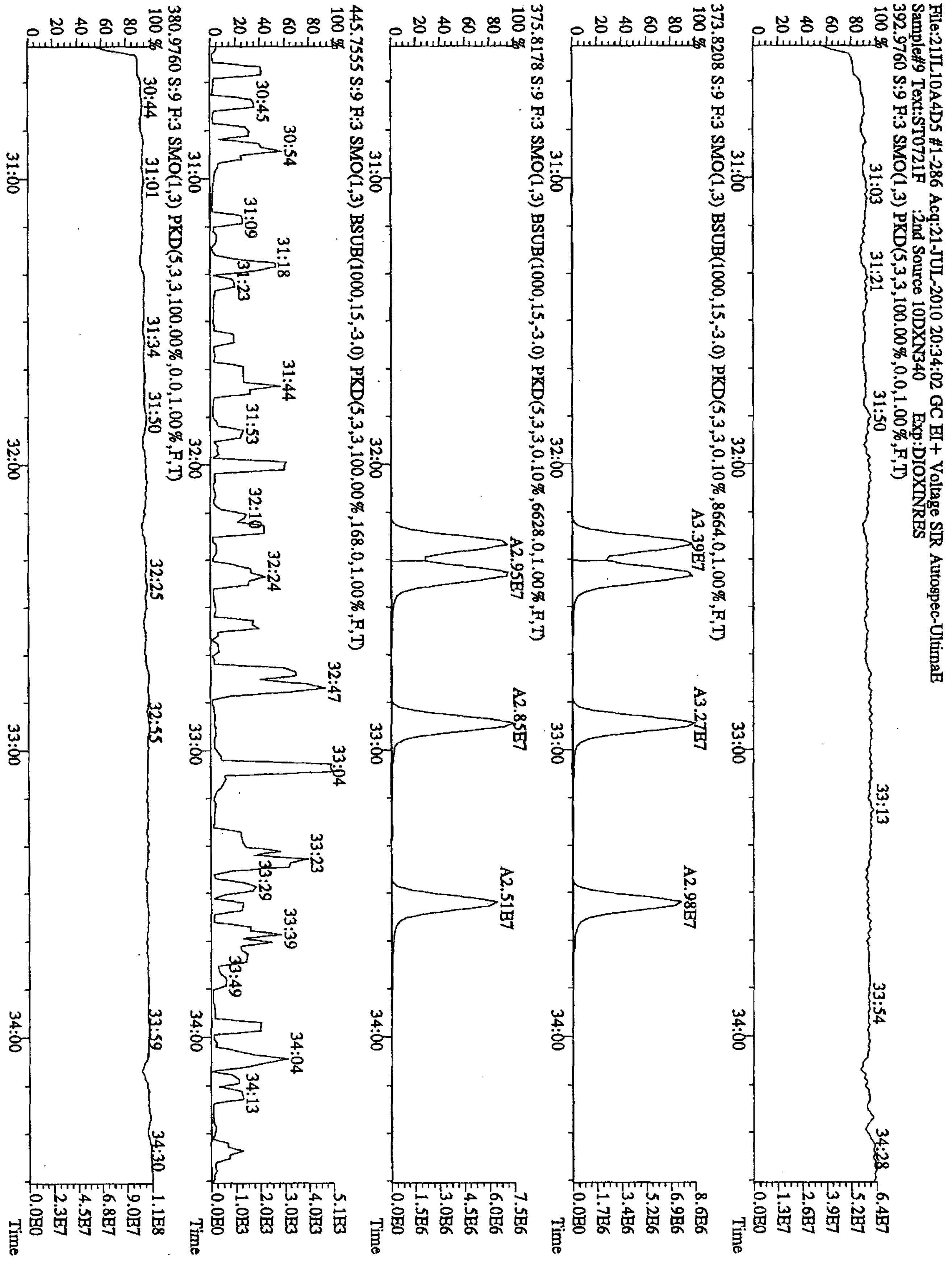


File:21JL10A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

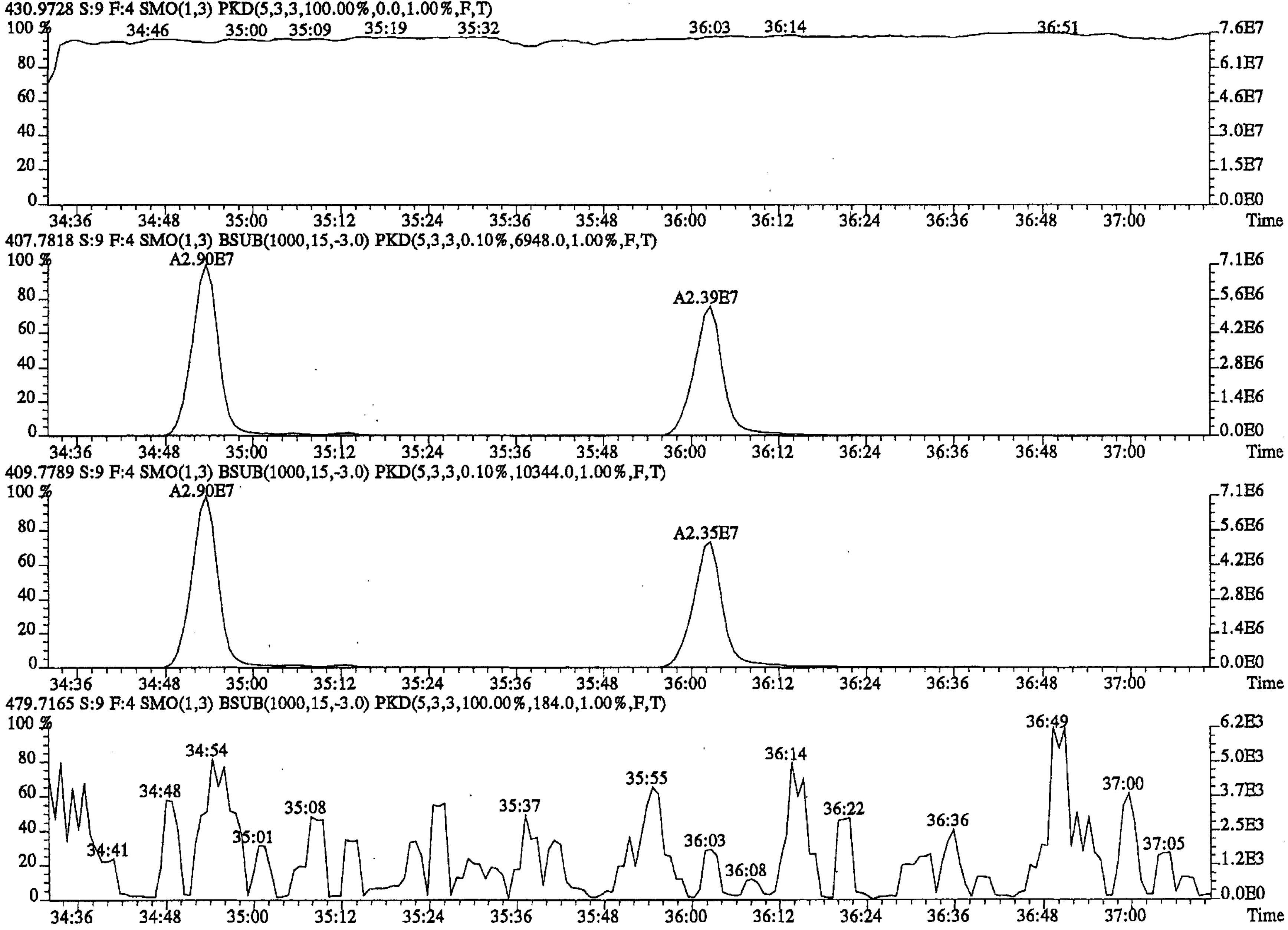


File:21JL10A4D5 #1-470 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES

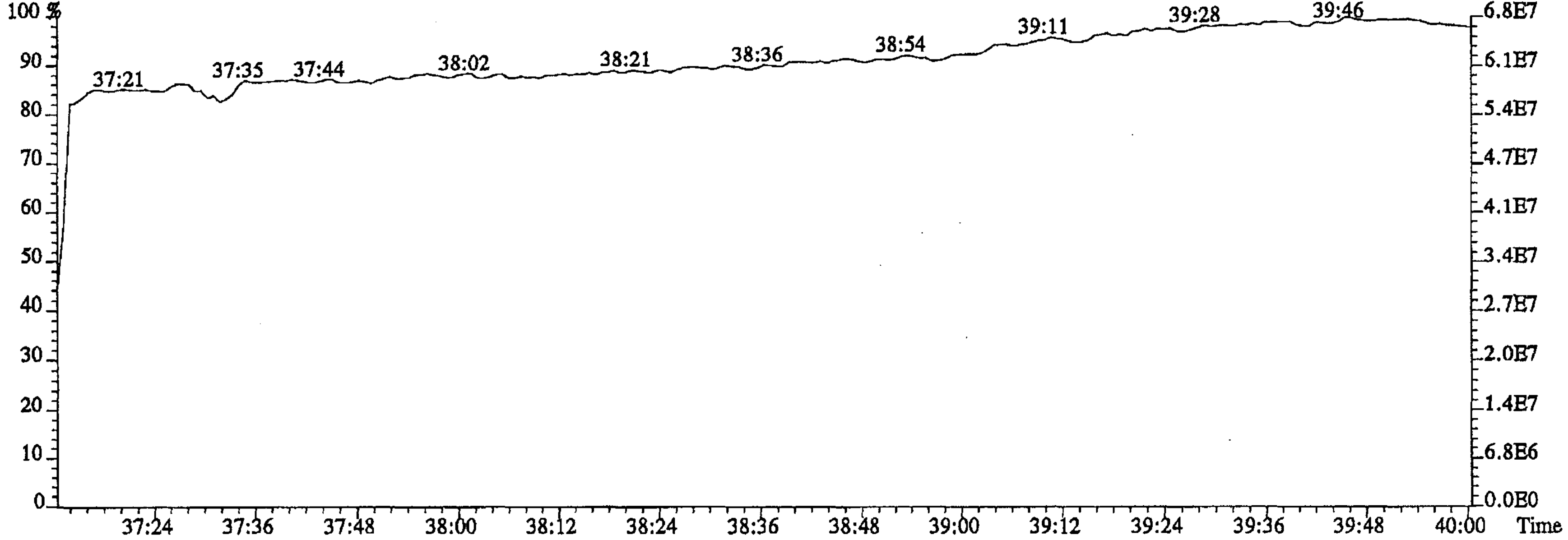



File:21JL10A4D5 #1-286 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES
392.9760 S:9 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
31:03
31:21
31:50
33:13
33:54
34:28
6.4E7
5.2E7
3.9E7
2.6E7
1.3E7
0.0E0
373.8208 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8664.0,1.00%,F,T)
A3.39E7
A3.27E7
A2.98E7
8.6E6
6.9E6
5.2E6
3.4E6
1.7E6
0.0E0
375.8178 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6628.0,1.00%,F,T)
A2.95E7
A2.85E7
A2.51E7
7.5E6
6.0E6
4.5E6
3.0E6
1.5E6
0.0E0
445.7555 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,168.0,1.00%,F,T)
30:45
30:54
31:09
31:18
31:23
31:44
31:53
32:10
32:24
32:47
33:04
33:23
33:29
33:39
33:49
34:04
34:13
5.1E3
4.0E3
3.0E3
2.0E3
1.0E3
0.0E0
380.9760 S:9 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
30:44
31:01
31:34
31:50
32:25
32:55
33:59
34:30
1.1E8
9.0E7
6.8E7
4.5E7
2.3E7
0.0E0
100 %
80
60
40
20
0
31:00
32:00
33:00
34:00
Time

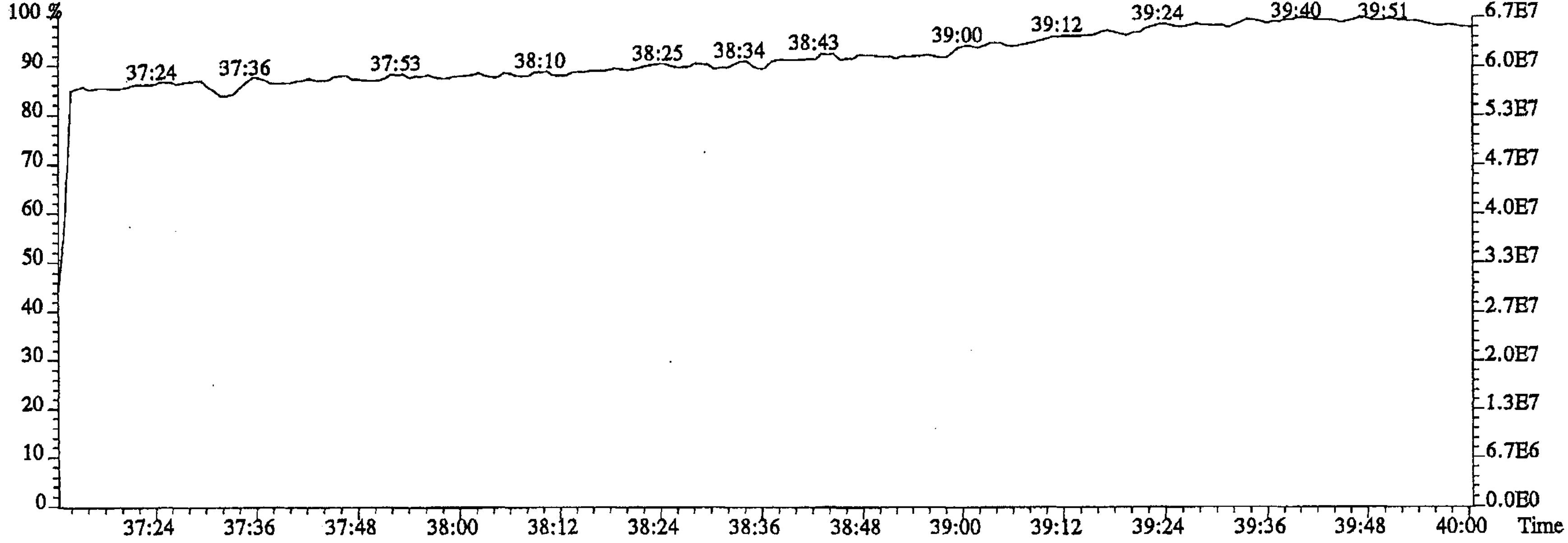
File:21JL10A4D5 #1-201 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES



File:21JL10A4D5 #1-227 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES
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)



Sample Extraction/Preparation Log Copies and Checklists

Totals 10/19

TestAmerica West Sacramento
High Resolution Prep Log
Dioxin/Furan Air Extraction

Batch: 0285255
MS Run #:
Prep Date: 10/12/2010

Box # 81

Shared QC Batch: N/A
Shares QC With: N/A

Internal COC:	
Delivered to Inst.:	10/14/10
Inst Receipt:	

Method: IK TO-9
Matrix: S AIR
Extraction: 11 SOXHLET (NONE,Na2SO4)
QC: 3W AMBIENT AIR TESTING
SAC: IK - S - 11 - 3W

Prep Reagents

Reagent	Supplier	Lot #
Toluene	Baker	J17N73
Hexane	Baker	J29E20
H2SO4	Baker	NA
20% DCM:Hexane	NA	3630-77A
65% DCM:Hexane	NA	3630-77E
1:1 DCM:Cyclohexane	NA	NA
75:20:5 DCM:Hexane:Benzene	NA	NA
Silica Gel	NA	4022-8A
Acid Alumina	MP Bio	79
5% Carbon:Silica Gel	NA	NA

Soxhlet time on: 1430 Soxhlet time off: 8:30 (10/13/10) ECY

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size *	Final Volume		Analysis Hold Time Expires	Extraction ID	Round Bottom ID	Rotovap ID
					20uL	Other				
G0J120000 - 255	B	L8A5X1AA	11/7/2010	1.0	✓		11/26/2010			5
G0J120000 - 255	C	L8A5X1AC	11/7/2010	1.0	✓		11/26/2010			7
G0J120000 - 255	L	L8A5X1AD	11/7/2010	1.0	✓	10/14/10	11/26/2010	10/14/10		6
G0J120429 - 2		L8AK81AA	11/7/2010	1.0	✓		11/26/2010			7
G0J120429 - 5		L8ALT1AA	11/7/2010	1.0	✓		11/26/2010			5

* See attached sheet for sample volumes recorded from scale

Comments/NCMs: QC Media: P00910 ECY 10/12/10

DB225
#5C 408.7 pg/samp.
AS 10/19/10

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Internal Standard All Samples	2.0mL/10DXN463/8290/1613 Daily IS	12/16/10		TP	10/12/10
Spike Mix LCS/LCSD~~/MS/MS~~ ECY 10/12/10	100µL/10DXN448/8290/1613 Daily NS	5/26/11		TP	10/12/10
Pre-Spike Standard MB/~~LCS/LCSD~~ ECY 10/12/10	200µL/10DXN~~347~~ 429 ECY 10/12/10/TO-9 Surr	7/19/11		TP	10/12/10
Recovery Standard All Samples	20.µl 10DXN225	6/16/11			10/14/10
Soxhlet Extraction Analyst/Date	ECY 10/12/10				

½ Split/Archive Analyst/Date	Option C Analyst/Date	IFB Analyst/Date	D2 Analyst/Date
Anne 10/13/10	—	MO 10/13/10	—

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0285255 **Test:** TO-9

Prep Date: 10/12/10 **Holding Times:** 11/7/10 **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: 10/12/10

2nd Level Reviewer: Date: 10/14/10

Comments:

```
RQC058                                TestAmerica Laboratories, Inc.                                Run Date: 10/14/10
                                         EXTRACTION BENCH WORKSHEET                                    Time: 11:50:40

LEV  LEV             LEV  LEV
 1    2               1    2
 Y    _   Blank       Y    _   Weights/Volumes                                         _  Expanded Deliverable
 Y    _   Check       Y    _   Spike & Surrogate Worksheet                             _  COC Completed
 _    _   MS/MSD      Y    _   Vial contains correct volume                            Y  Bench Sheet Copied
                      Y    _   Labels, greenbars, worksheets                           _  Package Submitted to AnalyticalGroup
                               computer batch: correct & all match                     _  Bench Sheet Copied per COC
                      _    _   Anomalies to Extraction Method
                                                           ************************
Extractionist: 403162 erica X. larson                      *                      *
                                                           *  QC BATCH:  0285255  *     PREP DATE:  10/12/10  13:00
                                                           *                      *     COMP DATE:  10/14/10  15:00
Concentrationist:  006625 Elizabeth Nguyen                 ************************

Reviewer/Date: NGUYENE    / 10/14/10                  Dioxins/Furans, HRGC/HRMS (TO-9)
                                                      SOXHLET (NONE,Na2SO4)

  EXTR     ANL   LOT#,MSRUN#/  TEST                     INIT/FIN         PH"S                   SOLVENTS                       SPIKE STANDARD/
  EXPR     DUE   WORK ORDER    FLGS  EXT  MTH  MATRIX   WT/VOL     INIT  ADJI  ADJ2  EXTRACTION VOL  EXCHANGE     VOL    SURROGATE ID

                 G0J120429-002
11/07/10 10/19/10 L8AK8-1-AA    R    11   IK   AIR     1.0Sample   NA    NA    NA    TOLUENE    700.0                .0
COMMENTS:                                               20.00uL                                                          2.0ML/10DXN463/8290 IS

                 G0J120429-005
11/07/10 10/19/10 L8ALT-1-AA    R    11   IK   AIR     1.0Sample   NA    NA    NA    TOLUENE    700.0                .0
COMMENTS:                                               20.00uL                                                          2.0ML/10DXN463/8290 IS

                 G0J120000-255
11/07/10  0/00/00 L8A5X-1-AAB        11   IK   AIR     1.0Sample   NA    NA    NA    TOLUENE    700.0                .0 200UL/10DXN429/TO-9 SURR
COMMENTS:                                               20.00uL                                                          2.0ML/10DXN463/8290 IS

                 G0J120000-255
11/07/10  0/00/00 L8A5X-1-ACC        11   IK   AIR     1.0Sample   NA    NA    NA    TOLUENE    700.0                .0 100UL/10DXN148/8290 NS
COMMENTS:                                               20.00uL                                                          2.0ML/10DXN463/8290 IS

                 G0J120000-255
11/07/10  0/00/00 L8A5X-1-ADL   R    11   IK   AIR     1.0Sample   NA    NA    NA    TOLUENE    700.0                .0 100UL/10DXN148/8290 NS
COMMENTS:                                               20.00uL                                                          2.0ML/10DXN463/8290 IS

________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________

R = RUSH       C = CLP
E = EPA 600    D = EXP.DEL)               NUMBER OF WORK ORDERS IN BATCH:         5
M = CLIENT REQ MS/MSD
```

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Checklist
HRGCMS/LRGCMS Analyses

Batch #: 0285255 Method ID: Dioxins/Furans, HRGC/HRMS (TO-9)

	DB-5	DB-225
Data Analyst:	AK	AK
Date initiated:	10/20/10	10/20/10
Reviewer:		
Date reviewed:	10/21/2010	10/21/2010

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?	✓	✓	NA	na
-LCS/DCS copy present and meets native recovery criteria?	✓	✓	NA	na
-Internal standard recoveries within limits?*	✓	✓	✓	✓
-Ion ratios within + 15% of theoretical values?	①	①	✓	✓
-Other QC (Dup,MS,SD) within specs?**	NA	na	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?	✓	✓	✓	✓
-Have dilution calculations been verified?	NA	na	NA	na
-Has a manual calculation for the sequence(s) been verified?	✓	✓	✓	✓
-Are retention times (RT) correct?	✓	✓	✓	✓
-Manual integrations checked?	✓	✓	NA	na

Comments: (Use other side if necessary)

* 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

AIR, Metals

Raw Data Package

ICPMS

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ICP-MS Data Review Checklist
Level I and Level II

Instrument ID (Circle one): **M01** [✓ **M02**]

Method 6020
SOP SAC-MT-0001

File Number: 101015AZ
Batch Numbers: 0288260, 0273263
Date: 10/15/10
Analyst: BRJ

Lot Numbers
G0J120429, ~~G0I270454~~ MB-, G0I270456

	YES	NO	NA
1. Copy of analysis protocol used included?	✓		
2. ICVs & CCVs within 10% of true value or recal and rerun?	✓		
3. ICB & CCBs < reporting limit or recal and rerun?	✓		
4. 10 samples or less analyzed between calibration checks?	✓		
5. All parameters within linear range?	✓		
6. LCS/LCSD within limits?	✓		
7. Prep blank value < reporting limit or all samples >20x blank?	✓		
8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <120% of the Calibration Blank intensities?	✓		
9. Appropriate dilution factors applied to data?	✓		
10. Matrix spike and spike dup within customer defined limits?	✓		
11. Each batch checked for presence of internal standard in samples?	✓		
12. Anomalies entered using Clouseau?	✓		

COMMENTS:

REVIEWED BY: MTZ
DATE: 10/18/10
DATA ENTERED BY: BRJ
DATE: 10/18/10

q:\forms\checklists\qa-427 icpms review.doc

QA-427 ERS 4/1/2009

Dataset Report

Perkin Elmer M02
SOP No. SAC-MT-0001
Method: 6020,200.8

User Name: metal
Computer Name: SACP1223
Dataset File Path: E:\elandata\Dataset\101015A2\
Report Date/Time: Monday, October 18, 2010 08:50:56

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	TUNE BJONES	15:33:17 Fri 15-Oct-10	Sample	
	AUTOLENS BJONES	15:36:07 Fri 15-Oct-10	Sample	Auto Lens Calib
	DAILY BJONES	15:38:33 Fri 15-Oct-10	Sample	
288260	L8ALC N.I.	15:55:00 Fri 15-Oct-10	Sample	G0J120429-3 N.I.
	Rinse 2X	16:08:22 Fri 15-Oct-10	Sample	
	Blank	16:11:16 Fri 15-Oct-10	Blank	
	Standard 1	16:14:04 Fri 15-Oct-10	Standard #1	
	ICV	16:16:51 Fri 15-Oct-10	Sample	
	ICB	16:19:43 Fri 15-Oct-10	Sample	
	LLSTD1	16:22:36 Fri 15-Oct-10	Sample	LLSTD@10X
	LLSTD2	16:25:28 Fri 15-Oct-10	Sample	LLSTD@5X
	ICSA	16:28:19 Fri 15-Oct-10	Sample	
	ICSAB	16:31:09 Fri 15-Oct-10	Sample	
	Rinse	16:37:41 Fri 15-Oct-10	Sample	
	CCV 1	16:44:13 Fri 15-Oct-10	Sample	
	CCB 1	16:47:06 Fri 15-Oct-10	Sample	
	CCV 2	16:49:59 Fri 15-Oct-10	Sample	
	CCB 2	16:52:51 Fri 15-Oct-10	Sample	
288260	L8JKEB	16:55:45 Fri 15-Oct-10	Sample	G0J150000-260 BLK
288260	L8JKEC	16:58:39 Fri 15-Oct-10	Sample	G0J150000-260 LCS
288260	L8JKEL	17:01:31 Fri 15-Oct-10	Sample	G0J150000-260 LCSD
288260	L8ALC	17:04:22 Fri 15-Oct-10	Sample	G0J120429-3
288260	L8ALCP5	17:07:12 Fri 15-Oct-10	Sample	G0J120429-3 5X
288260	L8ALCZ	17:10:02 Fri 15-Oct-10	Sample	G0J120429-3 PS
288260	L8ALV	17:12:52 Fri 15-Oct-10	Sample	G0J120429-6
	CCV 3 >RECAL	17:15:43 Fri 15-Oct-10	Sample	
	CCB 3	17:18:36 Fri 15-Oct-10	Sample	
	CCV 4	17:21:29 Fri 15-Oct-10	Sample	
	CCB 4	17:24:21 Fri 15-Oct-10	Sample	
273263	L7QHXB	17:27:15 Fri 15-Oct-10	Sample	G0I300000-263 BLK - CONFIRM ONLY - DO NOT REPORT
273263	L7KAV	17:30:08 Fri 15-Oct-10	Sample	G0I270456-8 } REPORT Be, P ONLY
273263	L7KA0	17:32:59 Fri 15-Oct-10	Sample	G0I270456-10
273263	L7KA2	17:35:50 Fri 15-Oct-10	Sample	G0I270456-12
273263	L7KA5	17:38:42 Fri 15-Oct-10	Sample	G0I270456-14
	CCV 5	17:41:34 Fri 15-Oct-10	Sample	
	CCB 5	17:44:27 Fri 15-Oct-10	Sample	
	CCV 6	17:47:20 Fri 15-Oct-10	Sample	
	CCB 6	17:50:12 Fri 15-Oct-10	Sample	
273263	L7QHXB	17:53:06 Fri 15-Oct-10	Sample	G0I300000-263 BLK } NOT NEEDED DO NOT REPORT
273263	L7KAV	17:55:59 Fri 15-Oct-10	Sample	G0I270456-8
273263	L7KA0	17:58:50 Fri 15-Oct-10	Sample	G0I270456-10
273263	L7KA2	18:01:42 Fri 15-Oct-10	Sample	G0I270456-12
273263	L7KA5	18:04:33 Fri 15-Oct-10	Sample	G0I270456-14
	CCV 7 >RECAL	18:07:26 Fri 15-Oct-10	Sample	
	CCB 7	18:10:18 Fri 15-Oct-10	Sample	
	CCV 8	18:13:11 Fri 15-Oct-10	Sample	
	CCB 8	18:16:04 Fri 15-Oct-10	Sample	

273263	L7KAFS	18:18:56 Fri 15-Oct-10	Sample	G0I270456-2 MS	REPORT P ONLY
273263	L7KAFD	18:21:49 Fri 15-Oct-10	Sample	G0I270456-2 SD	
273263	L7KAF	18:24:41 Fri 15-Oct-10	Sample	G0I270456-2	
273263	L7KAFP5	18:27:34 Fri 15-Oct-10	Sample	G0I270456-2 5X	
273263	L7KAJ	18:30:27 Fri 15-Oct-10	Sample	G0I270456-4	
273263	L7KAM	18:33:21 Fri 15-Oct-10	Sample	G0I270456-6	
	CCV 9	18:36:14 Fri 15-Oct-10	Sample		
	CCB 9	18:39:06 Fri 15-Oct-10	Sample		
	CCV 10	18:41:58 Fri 15-Oct-10	Sample		
	CCB 10	18:44:51 Fri 15-Oct-10	Sample		
273263	L7KAFS	18:47:44 Fri 15-Oct-10	Sample	G0I270456-2 MS	NOT NEEDED DO NOT REPORT
273263	L7KAFD	18:50:36 Fri 15-Oct-10	Sample	G0I270456-2 SD	
273263	L7KAF	18:53:29 Fri 15-Oct-10	Sample	G0I270456-2	
273263	L7KAFP5	18:56:23 Fri 15-Oct-10	Sample	G0I270456-2 5X	
273263	L7KAJ	18:59:16 Fri 15-Oct-10	Sample	G0I270456-4	
273263	L7KAM	19:02:09 Fri 15-Oct-10	Sample	G0I270456-6	
	CCV 11	19:05:02 Fri 15-Oct-10	Sample		
	CCB 11	19:07:55 Fri 15-Oct-10	Sample		

TAL West Sac RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M02 Reported: 10/18/10 10:16:01

File ID: **101015A2** **Analyst: jonesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Rinse 2X				2.0	10/15/10 16:08		☐
2	Blank				1.0	10/15/10 16:11		☐
3	Standard1				1.0	10/15/10 16:14		☐
4	ICV				1.0	10/15/10 16:16		☐
5	ICB				1.0	10/15/10 16:19		☐
6	LLSTD1				1.0	10/15/10 16:22		☐
7	LLSTD2				1.0	10/15/10 16:25		☐
8	ICSA				1.0	10/15/10 16:28		☐
9	ICSAB				1.0	10/15/10 16:31		☐
10	Rinse				1.0	10/15/10 16:37		☐
11	CCV 1				1.0	10/15/10 16:44		☐
12	CCB 1				1.0	10/15/10 16:47		☐
13	CCV 2				1.0	10/15/10 16:49		☐
14	CCB 2				1.0	10/15/10 16:52		☐
15	L8JKEB	G0J150000	0288260	2A	1.0	10/15/10 16:55		☐
16	L8JKEC	G0J150000	0288260	2A	1.0	10/15/10 16:58		☐
17	L8JKEL	G0J150000	0288260	2A	1.0	10/15/10 17:01		☐
18	L8ALC	G0J120429-3	0288260	2A	1.0	10/15/10 17:04		☐
19	L8ALCP5	G0J120429	0288260		5.0	10/15/10 17:07		☐
20	L8ALCZ	G0J120429-3	0288260		1.0	10/15/10 17:10		☐
21	L8ALV	G0J120429-6	0288260	2A	1.0	10/15/10 17:12		☐
22	CCV 3				1.0	10/15/10 17:15		☐
23	CCB 3				1.0	10/15/10 17:18		☐
26	CCV 4				1.0	10/15/10 17:21		☐
27	CCB 4				1.0	10/15/10 17:24		☐
28	L7QHXB	G0I300000	0273263	DF	1.0	10/15/10 17:27		☐
29	L7KAV	G0I270456-8	0273263	DF	1.0	10/15/10 17:30		☐
30	L7KA0	G0I270456-10	0273263	DF	1.0	10/15/10 17:32		☐
31	L7KA2	G0I270456-12	0273263	DF	1.0	10/15/10 17:35		☐
32	L7KA5	G0I270456-14	0273263	DF	1.0	10/15/10 17:38		☐
33	CCV 5				1.0	10/15/10 17:41		☐
34	CCB 5				1.0	10/15/10 17:44		☐
35	CCV 6				1.0	10/15/10 17:47		☐
36	CCB 6				1.0	10/15/10 17:50		☐
37	L7QHXB	G0I300000	0273263	DF	1.0	10/15/10 17:53		☐
38	L7KAV	G0I270456-8	0273263	DF	1.0	10/15/10 17:55		☐
39	L7KA0	G0I270456-10	0273263	DF	1.0	10/15/10 17:58		☐
40	L7KA2	G0I270456-12	0273263	DF	1.0	10/15/10 18:01		☐
41	L7KA5	G0I270456-14	0273263	DF	1.0	10/15/10 18:04		☐
42	CCV 7				1.0	10/15/10 18:07		☐
43	CCB 7				1.0	10/15/10 18:10		☐
46	CCV 8				1.0	10/15/10 18:13		☐
47	CCB 8				1.0	10/15/10 18:16		☐
48	L7KAFS	G0I270456-2	0273263	DF	1.0	10/15/10 18:18		☐
49	L7KAFD	G0I270456-2	0273263	DF	1.0	10/15/10 18:21		☐
50	L7KAF	G0I270456-2	0273263	DF	1.0	10/15/10 18:24		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M02 Reported: 10/18/10 10:16:01

File ID: **101015A2** **Analyst: jonesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
51	L7KAFP5	G0I270456	0273263		5.0	10/15/10 18:27		☐
52	L7KAJ	G0I270456-4	0273263	DF	1.0	10/15/10 18:30		☐
53	L7KAM	G0I270456-6	0273263	DF	1.0	10/15/10 18:33		☐
54	CCV 9				1.0	10/15/10 18:36		☐
55	CCB 9				1.0	10/15/10 18:39		☐
56	CCV 10				1.0	10/15/10 18:41		☐
57	CCB 10				1.0	10/15/10 18:44		☐
58	L7KAFS	G0I270456-2	0273263	DF	1.0	10/15/10 18:47		☐
59	L7KAFD	G0I270456-2	0273263	DF	1.0	10/15/10 18:50		☐
60	L7KAF	G0I270456-2	0273263	DF	1.0	10/15/10 18:53		☐
61	L7KAFP5	G0I270456	0273263		5.0	10/15/10 18:56		☐
62	L7KAJ	G0I270456-4	0273263	DF	1.0	10/15/10 18:59		☐
63	L7KAM	G0I270456-6	0273263	DF	1.0	10/15/10 19:02		☐
64	CCV 11				1.0	10/15/10 19:05		☐
65	CCB 11				1.0	10/15/10 19:07		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M02 (M02) Reported: 10/18/10 10:16:01

File ID: **101015A2** **Analyst: jonesb**

#	Sample ID	Analyzed Date	Germanium	Lithium-6	Q
1	Rinse 2X	10/15/10 16:08	98.7	98.7	☐
2	Blank	10/15/10 16:11	100.0	100.0	☑
3	Standard1	10/15/10 16:14	100.0	98.1	☑
4	ICV	10/15/10 16:16	101.6	98.8	☑
5	ICB	10/15/10 16:19	100.9	100.0	☑
6	LLSTD1	10/15/10 16:22	100.7	99.7	☑
7	LLSTD2	10/15/10 16:25	100.7	99.8	☑
8	ICSA	10/15/10 16:28	94.9	79.0	☑
9	ICSAB	10/15/10 16:31	97.6	79.0	☑
10	Rinse	10/15/10 16:37	121.1	87.7	☑
11	CCV 1	10/15/10 16:44	119.5	98.5	☑
12	CCB 1	10/15/10 16:47	118.4	99.2	☑
13	CCV 2	10/15/10 16:49	113.9	102.0	☑
14	CCB 2	10/15/10 16:52	115.1	102.2	☑
15	L8JKEB	10/15/10 16:55	113.5	104.2	☑
16	L8JKEC	10/15/10 16:58	111.6	109.8	☑
17	L8JKEL	10/15/10 17:01	109.3	109.4	☑
18	L8ALC	10/15/10 17:04	111.2	110.1	☑
19	L8ALCP5	10/15/10 17:07	111.5	113.8	☐
20	L8ALCZ	10/15/10 17:10	108.5	113.7	☑
21	L8ALV	10/15/10 17:12	108.4	110.2	☑
22	CCV 3	10/15/10 17:15	107.6	114.4	☑
23	CCB 3	10/15/10 17:18	110.4	115.2	☑
26	CCV 4	10/15/10 17:21	97.5	99.1	☑
27	CCB 4	10/15/10 17:24	95.4	94.0	☑
28	L7QHXB	10/15/10 17:27	96.1	102.4	☑
29	L7KAV	10/15/10 17:30	76.6	99.5	☑
30	L7KA0	10/15/10 17:32	77.0	100.6	☑
31	L7KA2	10/15/10 17:35	72.8	92.8	☑
32	L7KA5	10/15/10 17:38	82.4	107.8	☑
33	CCV 5	10/15/10 17:41	88.5	103.5	☑
34	CCB 5	10/15/10 17:44	90.3	102.6	☑
35	CCV 6	10/15/10 17:47	89.3	100.4	☑
36	CCB 6	10/15/10 17:50	90.8	101.7	☑
37	L7QHXB	10/15/10 17:53	88.9	105.5	☑
38	L7KAV	10/15/10 17:55	72.6	94.4	☑
39	L7KA0	10/15/10 17:58	73.8	99.4	☑
40	L7KA2	10/15/10 18:01	70.8	90.6	☑
41	L7KA5	10/15/10 18:04	80.2	107.8	☑
42	CCV 7	10/15/10 18:07	87.2	104.2	☑
43	CCB 7	10/15/10 18:10	89.0	101.4	☑
46	CCV 8	10/15/10 18:13	99.5	100.8	☑
47	CCB 8	10/15/10 18:16	100.7	100.6	☑
48	L7KAFS	10/15/10 18:18	50.3	39.3	☐
49	L7KAFD	10/15/10 18:21	51.3	40.1	☐
50	L7KAF	10/15/10 18:24	53.0	41.2	☐

Method: 6020 (SOP: SAC-MT-001) M02 (M02) Reported: 10/18/10 10:16:01

File ID: **101015A2** **Analyst: jonesb**

#	Sample ID	Analyzed Date	Germanium	Lithium-6	Q
51	L7KAFP5	10/15/10 18:27	86.7	77.4	☐
52	L7KAJ	10/15/10 18:30	54.3	43.5	☐
53	L7KAM	10/15/10 18:33	57.7	47.4	☐
54	CCV 9	10/15/10 18:36	100.8	96.3	☑
55	CCB 9	10/15/10 18:39	101.9	97.8	☑
56	CCV 10	10/15/10 18:41	98.6	92.9	☑
57	CCB 10	10/15/10 18:44	99.4	95.8	☑
58	L7KAFS	10/15/10 18:47	53.9	45.4	☐
59	L7KAFD	10/15/10 18:50	55.6	47.6	☐
60	L7KAF	10/15/10 18:53	56.6	48.0	☐
61	L7KAFP5	10/15/10 18:56	91.6	80.7	☐
62	L7KAJ	10/15/10 18:59	56.5	48.0	☐
63	L7KAM	10/15/10 19:02	58.1	49.9	☐
64	CCV 11	10/15/10 19:05	101.0	93.7	☑
65	CCB 11	10/15/10 19:07	102.6	98.1	☑

TAL-W.Sacramento Elan 6000 ICPMS M02

Quantitative Method Report

File Name:	0288260.mth
File Path:	E:\elandata\Method\0288260.mth

Timing Parameters

Sweeps/Reading:	50
Readings/Replicate:	1
Number of Replicates:	3
Tuning File:	default.tun
Optimization File:	default.dac
QC Enabled:	Yes
Settling Time:	Normal

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Sc	44.956	Peak Hopping	1	14.0 ms	700 ms
Li-1	6.015	Peak Hopping	1	14.0 ms	700 ms
Be	9.012	Peak Hopping	1	14.0 ms	700 ms
P	30.994	Peak Hopping	1	14.0 ms	700 ms
Ca	43.956	Peak Hopping	1	14.0 ms	700 ms
Mn	54.938	Peak Hopping	1	14.0 ms	700 ms
As	74.922	Peak Hopping	1	20.0 ms	1000 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms
Pd	105.903	Peak Hopping	1	14.0 ms	700 ms
Kr	82.914	Peak Hopping	1	14.0 ms	700 ms

Signal Processing

Detector Mode:	Dual
Measurement Units:	Counts
AutoLens:	On
Spectral Peak Processing:	Average
Signal Profile Processing:	Average
Blank Subtraction:	After Internal Standard
Baseline Readings:	0
Smoothing:	Yes, Factor 5

Equations

Analyte	Mass	Corrections
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78

Calibration Information

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
Sc	44.956	Linear Thru Zero	ug/L	ug/L				
Li-1	6.015	Linear Thru Zero	ug/L	ug/L				
Be	9.012	Linear Thru Zero	ug/L	ug/L	100			
P	30.994	Linear Thru Zero	ug/L	ug/L	5e+003			
Ca	43.956	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Mn	54.938	Linear Thru Zero	ug/L	ug/L	100			
As	74.922	Linear Thru Zero	ug/L	ug/L	100			
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L				
Pd	105.903	Linear Thru Zero	ug/L	ug/L	100			

Report Date/Time: Monday, October 18, 2010 08:51:21

Kr	82.914	Linear Thru Zero	ug/L	ug/L	100

TAL-W. SACRMENTO – Perkin Elmer Elan 6000 ICPMS, M02 – Methods 6020, 200.8

AIR TOX Standards - 4 % HNO3, 0.5 % HCl

Standards for run:

Tuning standard: 4075-6A

Internal standard: 4075-14A

Blank, CCBs: 3185-40E

Standard 1, CCVs: 4075-14C

ICV: 4075-8E

ICSA: 4075-18A

ICSAB: 4075-18B

File Number: 101015A2

Instrument Tuning Report

File Name: default.tun

Sample Information

Sample Date/Time: Friday, October 15, 2010 15:33:17

Sample ID: TUNE BJONES

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.027	1567	0.722	2031	
Be	9.012	8.978	2071	0.720	2022	
Mg	23.985	23.979	5726	0.726	1989	
Co	58.933	58.929	14262	0.733	1940	
In	114.904	114.879	27920	0.734	1924	
Ce	139.905	139.878	33989	0.736	1976	
Tl	204.975	204.979	49709	0.744	2179	
Pb	207.977	207.979	50425	0.699	2209	
U	238.050	238.028	57643	0.705	2359	

Report Date/Time: Friday, October 15, 2010 15:35:11

Elan 6000 Instrument Optomization Report

Path e:\elandata\Optimize
File Name e:\elandata\Optimize\default.dac

Sample Information

Sample Date/Time: Friday, October 15, 2010 15:33:17
Sample ID: TUNE BJONES

Parameter Settings

Nebulizer Gas Flow	0.93
Lens Voltage	6.50
ICP RF Power	1100.00
Analog Stage Voltage	-2000.00
Pulse Stage Voltage	1350.00
Discriminator Threshold	70.00
AC Rod Offset	-7.00
Service DAC 1	60.00
Quadrupole Rod Offset	0.00

AutoLens Calibration

Date:	15:36:07 Fri 15-Oct-10
Sample Filename:	AUTOLENS BJONES.002
Dataset Pathname:	101015A2\

Lens Voltage Start:	4.00
Lens Voltage End:	8.00
Lens Voltage Step:	0.25
Slope:	0.01904645
Intercept:	4.92244578

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	5.3	6371.2	17
Co	58.933	5.8	166885.9	17
In	114.904	7.3	405050.5	17

Dual Detector Calibration

Date:	12:36:25 Thu 07-Oct-10
Sample Filename:	DUAL BJONES.1087
Dataset Pathname:	dual detector calibration\

Points Acquired:	37
Lens Vol Start:	-3.00
Lens Vol End:	15.00
Lens Vol Step:	0.50

Analyte	Mass	Gain	N(max)
Li	6.015	10148.51	1233639207.946
Li	7.016	9525.41	1314337231.125
Be	9.012	8906.66	1405646187.191
B	11.009	9150.39	1368204371.097

Report Date/Time: Friday, October 15, 2010 15:38:13

Na	22.990	9217.94	1358178282.022
Mg	23.985	8591.65	1457182243.442
Mg	24.986	8419.04	1487059053.411
Al	26.982	8024.15	1560240856.403
Si	27.977	8923.39	1403010310.671
P	30.994	7501.83	1668872968.155
K	38.964	7138.71	1753763196.245
Ca	42.959	6882.37	1819083350.489
Ca	43.956	7086.12	1766779769.645
Sc	44.956	7142.45	1752844111.963
V	50.944	7041.09	1778078418.215
Cr	51.941	6733.43	1859321614.552
Fe	53.940	6633.92	1887211171.050
Mn	54.938	6573.33	1904606917.421
Fe	56.935	6479.61	1932153374.146
Co	58.933	6344.11	1973421692.662
Ni	59.933	6207.92	2016714887.145
Cu	62.930	6068.38	2063088933.690
Cu	64.928	5994.76	2088424494.126
Zn	67.925	6066.92	2063586009.604
Ge	71.922	6181.93	2025193380.543
As	74.922	6121.22	2045278701.131
Se	77.917	6185.35	2024075455.062
Br	78.918	6080.83	2058864349.835
Se	81.917	6040.95	2072455299.965
Sr	87.906		
Mo	96.906	6155.18	2033994857.659
Ag	106.905	5620.68	2227419189.019
Ag	108.905	5579.08	2244026679.226
Cd	110.904	5665.26	2209892054.912
Cd	113.904	5659.10	2212295953.887
In	114.904	5674.34	2206355936.656
Sn	117.902	5717.58	2189669795.590
Sb	120.904	5726.43	2186284673.927
Ba	134.906	5589.91	2239680393.815
Ho	164.930		
Tm	168.934	5402.70	2317287407.902
Tl	204.975	5126.46	2442155404.797
Pb	207.977	5134.56	2438300475.585
U	238.050	5130.38	2440286302.243

Daily Performance Report

Sample ID: DAILY BJONES
Sample Date/Time: Friday, October 15, 2010 15:38:33
Sample Description:
Sample File: E:\elandata\Sample\0288260X.sam
Method File: E:\elandata\Method\000daily.mth
Dataset File: E:\elandata\Dataset\101015A2\DAILY BJONES.003
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Number of Replicates: 5
Dual Detector Mode: Dual

Summary

	Analyte	Mass	Net Intens. Mean	Net Intens. RSD
	Mg	24	62546.141	0.416
	Rh	103	302187.907	1.036
	Pb	208	321537.222	0.919
⌈>	Ba	138	343255.154	0.404
⌊	Ba++	69	0.020	1.644
⌈>	Ce	140	437955.158	0.873
⌊	CeO	156	0.027	3.821
	Bkgd	220	1.429	141.421
	Li	7	16139.460	1.814
	Be	9	5253.232	1.430
	Co	59	150351.728	0.664
	In	115	397967.952	0.918
	Tl	205	444961.696	0.636

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: L8ALC N.I.
Sample Description: G0J120429-3 N.I.
Batch ID: 288260
Sample Date/Time: Friday, October 15, 2010 15:55:00
Method File: E:\elandata\Method\000LISCGEYRH....mth
Dataset File: E:\elandata\Dataset\101015A2\L8ALC N.I..004
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 11
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6	Li			317.148	ug/L	0.000
45	Sc			14478.667	ug/L	0.000
69	Ga			11204.526	mg/L	0.000
72	Ge			1422.492	ug/L	0.000
89	Y			7279.580	ug/L	0.000
103	Rh			32.857	ug/L	0.000
115	In			1148.275	ug/L	0.000
165	Ho			457.631	ug/L	0.000
169	Tm			822.894	ug/L	0.000
209	Bi			3085.285	ug/L	0.000
133	Cs			33828.542	mg/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	
Sc	45	
Ga	69	
Ge	72	
Y	89	
Rh	103	
In	115	
Ho	165	
Tm	169	
Bi	209	
Cs	133	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: Rinse 2X
Sample Description:
Batch ID:
Sample Date/Time: Friday, October 15, 2010 16:08:22
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\Rinse 2X.005
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 6
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2550289.237	ug/L	0.000
┌>	6	Li-1			1301396.174	ug/L	0.000
└	9	Be			1.000	ug/L	0.000
┌	31	P			19484.117	ug/L	0.000
│	44	Ca			26051.215	ug/L	0.000
│	55	Mn			11133.731	ug/L	0.000
│	75	As			15682.849	ug/L	0.000
└>	72	Ge-1			2211418.198	ug/L	0.000
	106	Pd			14.667	ug/L	0.000
	83	Kr			989.078	ug/L	0.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
┌>	Li-1	6	
└	Be	9	
┌	P	31	
│	Ca	44	
│	Mn	55	
│	As	75	
└>	Ge-1	72	
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: Blank
Sample Description:
Batch ID:
Sample Date/Time: Friday, October 15, 2010 16:11:16
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\Blank.006
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2584396.743	ug/L	
┌>	6	Li-1			1318246.535	ug/L	
└	9	Be			1.667	ug/L	
┌	31	P			19295.212	ug/L	
│	44	Ca			25557.887	ug/L	
│	55	Mn			11826.981	ug/L	
│	75	As			15979.990	ug/L	
└>	72	Ge-1			2240862.708	ug/L	
	106	Pd			14.333	ug/L	
	83	Kr			1078.758	ug/L	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
┌>	Li-1	6	
└	Be	9	
┌	P	31	
│	Ca	44	
│	Mn	55	
│	As	75	
└>	Ge-1	72	
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 1
Sample Description:
Batch ID:
Sample Date/Time: Friday, October 15, 2010 16:14:04
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\Standard 1.007
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2592143.054	ug/L	2584396.743
┌>	6	Li-1			1293602.387	ug/L	1318246.535
└	9	Be	100.000000	1.690	41049.312	ug/L	1.667
┌	31	P	5000.000000	1.327	1868512.019	ug/L	19295.212
|	44	Ca	5100.000000	1.727	1793258.461	ug/L	25557.887
|	55	Mn	100.000000	1.722	1694249.233	ug/L	11826.981
|	75	As	100.000000	1.765	242431.932	ug/L	15979.990
└>	72	Ge-1			2240493.531	ug/L	2240862.708
	106	Pd	100.000000	0.237	19918.792	ug/L	14.333
	83	Kr	100.000000	358.683	1116.099	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
┌>	Li-1	6	
└	Be	9	
┌	P	31	
|	Ca	44	
|	Mn	55	
|	As	75	
└>	Ge-1	72	
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: ICV
Sample Description:
Batch ID:
Sample Date/Time: Friday, October 15, 2010 16:16:51
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\ICV .008
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 3
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2630495.739	ug/L	2584396.743
┌>	6	Li-1			1302460.913	ug/L	1318246.535
└	9	Be	82.147662	0.704	33955.686	ug/L	1.667
┌	31	P	785.950191	1.848	314908.947	ug/L	19295.212
│	44	Ca	807.805125	1.418	310431.536	ug/L	25557.887
│	55	Mn	78.585697	1.458	1355284.366	ug/L	11826.981
│	75	As	81.162197	1.696	202962.280	ug/L	15979.990
└>	72	Ge-1			2276525.214	ug/L	2240862.708
	106	Pd	82.011515	0.911	16338.281	ug/L	14.333
	83	Kr	-201.778230	209.905	1003.414	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
┌>	Li-1	6	98.803
└	Be	9	
┌	P	31	
│	Ca	44	
│	Mn	55	
│	As	75	
└>	Ge-1	72	101.591
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: ICB
Sample Description:
Batch ID:
Sample Date/Time: Friday, October 15, 2010 16:19:43
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\ICB.009
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2601751.767	ug/L	2584396.743
⌈>	6	Li-1			1318371.119	ug/L	1318246.535
⌊	9	Be	0.001635	228.863	2.333	ug/L	1.667
⌈	31	P	1.073319	155.329	19865.654	ug/L	19295.212
|	44	Ca	-0.656969	145.602	25548.853	ug/L	25557.887
|	55	Mn	-0.007796	238.174	11795.256	ug/L	11826.981
|	75	As	-0.293633	5.278	15449.831	ug/L	15979.990
⌊>	72	Ge-1			2260550.394	ug/L	2240862.708
	106	Pd	-0.006699	75.000	13.000	ug/L	14.333
	83	Kr	-416.058981	42.734	923.401	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	100.009
⌊	Be	9	
⌈	P	31	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	100.879
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: LLSTD1
Sample Description: LLSTD@10X
Batch ID:
Sample Date/Time: Friday, October 15, 2010 16:22:36
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\LLSTD1.010
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 71
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2584501.731	ug/L	2584396.743
⌈>	6	Li-1			1314031.168	ug/L	1318246.535
⌊	9	Be	1.030685	4.997	431.348	ug/L	1.667
⌈	31	P	47.808185	6.032	37243.374	ug/L	19295.212
│	44	Ca	49.826682	3.800	43138.737	ug/L	25557.887
│	55	Mn	0.965327	3.105	28270.995	ug/L	11826.981
│	75	As	0.962163	11.290	18288.853	ug/L	15979.990
⌊>	72	Ge-1			2257080.130	ug/L	2240862.708
	106	Pd	0.974673	2.976	208.337	ug/L	14.333
	83	Kr	-387.488842	42.566	934.069	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	99.680
⌊	Be	9	
⌈	P	31	
│	Ca	44	
│	Mn	55	
│	As	75	
⌊>	Ge-1	72	100.724
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: LLSTD2
Sample Description: LLSTD@5X
Batch ID:
Sample Date/Time: Friday, October 15, 2010 16:25:28
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\LLSTD2.011
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 72
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2587076.227	ug/L	2584396.743
⌈>	6	Li-1			1316178.537	ug/L	1318246.535
⌊	9	Be	2.123090	1.844	888.395	ug/L	1.667
⌈	31	P	92.673627	1.553	53948.379	ug/L	19295.212
|	44	Ca	101.917715	2.298	61312.292	ug/L	25557.887
|	55	Mn	2.024188	0.945	46208.494	ug/L	11826.981
|	75	As	2.067857	9.193	20805.842	ug/L	15979.990
⌊>	72	Ge-1			2256489.446	ug/L	2240862.708
	106	Pd	2.069960	2.357	426.348	ug/L	14.333
	83	Kr	60.712761	249.621	1101.429	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	99.843
⌊	Be	9	
⌈	P	31	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	100.697
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: ICSA
Sample Description:
Batch ID:
Sample Date/Time: Friday, October 15, 2010 16:28:19
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\ICSA .012
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 2
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2321072.374	ug/L	2584396.743
⌈>	6	Li-1			1042003.335	ug/L	1318246.535
⌊	9	Be	0.006124	58.562	3.333	ug/L	1.667
⌈	31	P	91670.264319	1.123	32191578.000	ug/L	19295.212
|	44	Ca	93758.327044	0.895	30863286.869	ug/L	25557.887
|	55	Mn	6.130944	1.427	109107.238	ug/L	11826.981
|	75	As	1.273989	33.771	17900.580	ug/L	15979.990
⌊>	72	Ge-1			2125990.621	ug/L	2240862.708
	106	Pd	1.205785	3.014	254.338	ug/L	14.333
	83	Kr	849.112446	24.390	1395.820	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	79.045
⌊	Be	9	
⌈	P	31	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	94.874
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: ICSAB
Sample Description:
Batch ID:
Sample Date/Time: Friday, October 15, 2010 16:31:09
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\ICSAB.013
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 1
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2381276.321	ug/L	2584396.743
⌈>	6	Li-1			1040807.136	ug/L	1318246.535
⌊	9	Be	100.972315	1.297	33349.163	ug/L	1.667
⌈	31	P	93643.011481	0.360	33812128.363	ug/L	19295.212
|	44	Ca	95274.865719	0.442	32247264.356	ug/L	25557.887
|	55	Mn	106.570055	0.215	1761015.110	ug/L	11826.981
|	75	As	107.637495	0.832	253429.062	ug/L	15979.990
⌊>	72	Ge-1			2186034.637	ug/L	2240862.708
	106	Pd	92.871244	0.240	18499.852	ug/L	14.333
	83	Kr	2517.103852	10.220	2018.654	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	78.954
⌊	Be	9	
⌈	P	31	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	97.553
	Pd	106	
	Kr	83	

Report Date/Time: Friday, October 15, 2010 16:31:47
Page 1
Sample ID: ICSAB

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: Rinse
Sample Description:
Batch ID:
Sample Date/Time: Friday, October 15, 2010 16:37:41
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\Rinse.014
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 6
Number of Replicates: 3

Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3032692.251	ug/L	2584396.743
⌈>	6	Li-1			1155547.271	ug/L	1318246.535
⌊	9	Be	0.000561	280.699	1.667	ug/L	1.667
⌈	31	P	2.950267	94.565	24676.140	ug/L	19295.212
|	44	Ca	-2.850232	34.168	29748.047	ug/L	25557.887
|	55	Mn	-0.048316	15.231	13334.623	ug/L	11826.981
|	75	As	1.109126	22.097	22388.932	ug/L	15979.990
⌊>	72	Ge-1			2713182.595	ug/L	2240862.708
	106	Pd	0.008373	261.534	16.000	ug/L	14.333
	83	Kr	437.498346	69.200	1242.122	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	87.658
⌊	Be	9	
⌈	P	31	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	121.078
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: CCV 1
Sample Description:
Batch ID:
Sample Date/Time: Friday, October 15, 2010 16:44:13
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\CCV 1.015
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3077294.023	ug/L	2584396.743
┌>	6	Li-1			1297982.158	ug/L	1318246.535
└	9	Be	100.169148	2.003	41255.633	ug/L	1.667
┌	31	P	4851.418023	2.434	2167107.184	ug/L	19295.212
│	44	Ca	4937.832103	1.231	2075911.017	ug/L	25557.887
│	55	Mn	101.311816	1.586	2051048.144	ug/L	11826.981
│	75	As	99.211608	1.566	287581.779	ug/L	15979.990
└>	72	Ge-1			2677615.020	ug/L	2240862.708
	106	Pd	108.064611	1.140	21524.009	ug/L	14.333
	83	Kr	22.320225	396.015	1087.093	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
┌>	Li-1	6	98.463
└	Be	9	
┌	P	31	
│	Ca	44	
│	Mn	55	
│	As	75	
└>	Ge-1	72	119.490
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: CCB 1
Sample Description:
Batch ID:
Sample Date/Time: Friday, October 15, 2010 16:47:06
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\CCB 1.016
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3060473.071	ug/L	2584396.743
⌈>	6	Li-1			1307376.899	ug/L	1318246.535
⌊	9	Be	0.000047	10716.631	1.667	ug/L	1.667
⌈	31	P	2.175388	184.651	23780.134	ug/L	19295.212
|	44	Ca	-2.897828	27.331	29061.543	ug/L	25557.887
|	55	Mn	-0.049062	12.986	13021.643	ug/L	11826.981
|	75	As	1.030180	19.859	21683.285	ug/L	15979.990
⌊>	72	Ge-1			2652632.279	ug/L	2240862.708
	106	Pd	-0.010048	251.661	12.333	ug/L	14.333
	83	Kr	194.641698	175.895	1151.438	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	99.175
⌊	Be	9	
⌈	P	31	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	118.375
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: CCV 2
Sample Description:
Batch ID:
Sample Date/Time: Friday, October 15, 2010 16:49:59
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\CCV 2.017
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2938462.963	ug/L	2584396.743
┌>	6	Li-1			1344469.223	ug/L	1318246.535
└	9	Be	99.266917	1.189	42355.493	ug/L	1.667
┌	31	P	5041.988491	1.259	2145575.341	ug/L	19295.212
│	44	Ca	5119.873482	1.105	2050117.873	ug/L	25557.887
│	55	Mn	103.094606	1.075	1988795.821	ug/L	11826.981
│	75	As	101.450576	0.729	279836.255	ug/L	15979.990
└>	72	Ge-1			2551514.676	ug/L	2240862.708
	106	Pd	107.229483	0.535	21357.781	ug/L	14.333
	83	Kr	555.356421	49.454	1286.131	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
┌>	Li-1	6	101.989
└	Be	9	
┌	P	31	
│	Ca	44	
│	Mn	55	
│	As	75	
└>	Ge-1	72	113.863
	Pd	106	
	Kr	83	

Report Date/Time: Friday, October 15, 2010 16:50:37
Page 1
Sample ID: CCV 2

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: CCB 2
Sample Description:
Batch ID:
Sample Date/Time: Friday, October 15, 2010 16:52:51
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\CCB 2.018
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2948263.393	ug/L	2584396.743
⌈>	6	Li-1			1347791.624	ug/L	1318246.535
⌊	9	Be	0.005365	43.241	4.000	ug/L	1.667
⌈	31	P	1.430281	257.655	22833.050	ug/L	19295.212
|	44	Ca	-2.591333	5.693	28391.529	ug/L	25557.887
|	55	Mn	-0.076610	6.491	12132.221	ug/L	11826.981
|	75	As	0.685297	15.452	20185.434	ug/L	15979.990
⌊>	72	Ge-1			2580025.695	ug/L	2240862.708
	106	Pd	0.003349	600.001	15.000	ug/L	14.333
	83	Kr	524.997564	17.275	1274.794	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	102.241
⌊	Be	9	
⌈	P	31	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	115.135
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: L8JKEB
Sample Description: G0J150000-260 BLK
Batch ID: 288260
Sample Date/Time: Friday, October 15, 2010 16:55:45
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\L8JKEB.019
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 100
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2972424.398	ug/L	2584396.743
┌>	6	Li-1			1374100.711	ug/L	1318246.535
└	9	Be	0.000612	653.002	2.000	ug/L	1.667
┌	31	P	23.135865	12.241	31606.404	ug/L	19295.212
|	44	Ca	113.239431	0.268	73535.121	ug/L	25557.887
|	55	Mn	0.345473	4.398	20011.750	ug/L	11826.981
|	75	As	1.026322	10.490	20765.348	ug/L	15979.990
└>	72	Ge-1			2542264.153	ug/L	2240862.708
	106	Pd	-0.023445	12.372	9.667	ug/L	14.333
	83	Kr	-95.531621	410.820	1043.087	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
┌>	Li-1	6	104.237
└	Be	9	
┌	P	31	
|	Ca	44	
|	Mn	55	
|	As	75	
└>	Ge-1	72	113.450
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: L8JKEC
Sample Description: G0J150000-260 LCS
Batch ID: 288260
Sample Date/Time: Friday, October 15, 2010 16:58:39
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\L8JKEC.020
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 86
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2904245.904	ug/L	2584396.743
⌈>	6	Li-1			1448057.851	ug/L	1318246.535
⌊	9	Be	171.941242	2.952	78967.614	ug/L	1.667
⌈	31	P	908.640205	0.414	396781.706	ug/L	19295.212
│	44	Ca	1077.460582	0.149	445536.545	ug/L	25557.887
│	55	Mn	190.891267	0.873	3599231.831	ug/L	11826.981
│	75	As	182.075087	0.304	478240.120	ug/L	15979.990
⌊>	72	Ge-1			2501607.208	ug/L	2240862.708
	106	Pd	198.828759	1.521	39590.121	ug/L	14.333
	83	Kr	-197.317493	35.372	1005.079	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	109.847
⌊	Be	9	
⌈	P	31	
│	Ca	44	
│	Mn	55	
│	As	75	
⌊>	Ge-1	72	111.636
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: L8JKEL
Sample Description: G0J150000-260 LCSD
Batch ID: 288260
Sample Date/Time: Friday, October 15, 2010 17:01:31
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\L8JKEL.021
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 87
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2840052.401	ug/L	2584396.743
⌈>	6	Li-1			1441868.630	ug/L	1318246.535
⌊	9	Be	172.152920	4.116	78681.800	ug/L	1.667
⌈	31	P	924.612806	1.720	395005.424	ug/L	19295.212
|	44	Ca	1092.558654	0.620	442038.877	ug/L	25557.887
|	55	Mn	193.045924	1.043	3564358.428	ug/L	11826.981
|	75	As	183.752906	1.153	472482.002	ug/L	15979.990
⌊>	72	Ge-1			2449885.499	ug/L	2240862.708
	106	Pd	196.926270	0.853	39211.441	ug/L	14.333
	83	Kr	160.714623	263.739	1138.770	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	109.378
⌊	Be	9	
⌈	P	31	
|	Ca	44	
|	Mn	55	
|	As	75	
⌊>	Ge-1	72	109.328
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: L8ALC
Sample Description: G0J120429-3
Batch ID: 288260
Sample Date/Time: Friday, October 15, 2010 17:04:22
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\L8ALC.022
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 11
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2898722.606	ug/L	2584396.743
⌈>	6	Li-1			1451491.698	ug/L	1318246.535
⌊	9	Be	0.014207	46.442	8.333	ug/L	1.667
⌈	31	P	244.820394	4.456	122181.163	ug/L	19295.212
│	44	Ca	2037.430931	1.190	814075.196	ug/L	25557.887
│	55	Mn	140.943019	1.353	2651192.086	ug/L	11826.981
│	75	As	1.076483	6.405	20486.559	ug/L	15979.990
⌊>	72	Ge-1			2492572.918	ug/L	2240862.708
	106	Pd	1.612749	11.011	335.342	ug/L	14.333
	83	Kr	390.174888	10.862	1224.451	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈>	Li-1	6	110.108
⌊	Be	9	
⌈	P	31	
│	Ca	44	
│	Mn	55	
│	As	75	
⌊>	Ge-1	72	111.233
	Pd	106	
	Kr	83	

Report Date/Time: Friday, October 15, 2010 17:04:59

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: L8ALCP5
Sample Description: G0J120429-3 5X
Batch ID: 288260
Sample Date/Time: Friday, October 15, 2010 17:07:12
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\L8ALCP5.023
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 12
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2907080.589	ug/L	2584396.743
┌>	6	Li-1			1500382.605	ug/L	1318246.535
└	9	Be	0.004413	47.191	4.000	ug/L	1.667
┌	31	P	51.085907	3.215	42586.410	ug/L	19295.212
|	44	Ca	404.487499	1.238	184832.483	ug/L	25557.887
|	55	Mn	26.828065	0.914	516513.617	ug/L	11826.981
|	75	As	0.606712	7.653	19348.561	ug/L	15979.990
└>	72	Ge-1			2498448.107	ug/L	2240862.708
	106	Pd	0.301442	12.285	74.334	ug/L	14.333
	83	Kr	-166.960763	102.124	1016.415	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
┌>	Li-1	6	113.817
└	Be	9	
┌	P	31	
|	Ca	44	
|	Mn	55	
|	As	75	
└>	Ge-1	72	111.495
	Pd	106	
	Kr	83	

Report Date/Time: Friday, October 15, 2010 17:07:49

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: L8ALCZ
Sample Description: G0J120429-3 PS
Batch ID: 288260
Sample Date/Time: Friday, October 15, 2010 17:10:02
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\L8ALCZ.024
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 13
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2818648.481	ug/L	2584396.743
┌>	6	Li-1			1498435.888	ug/L	1318246.535
└	9	Be	181.496878	0.863	86306.665	ug/L	1.667
┌	31	P	1221.622514	0.733	511145.979	ug/L	19295.212
│	44	Ca	3071.192073	0.670	1182750.664	ug/L	25557.887
│	55	Mn	344.382970	0.503	6299314.137	ug/L	11826.981
│	75	As	200.839743	0.221	510818.631	ug/L	15979.990
└>	72	Ge-1			2430862.331	ug/L	2240862.708
	106	Pd	217.107207	1.392	43228.347	ug/L	14.333
	83	Kr	-6.250775	921.380	1076.424	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
┌>	Li-1	6	113.669
└	Be	9	
┌	P	31	
│	Ca	44	
│	Mn	55	
│	As	75	
└>	Ge-1	72	108.479
	Pd	106	
	Kr	83	

Report Date/Time: Friday, October 15, 2010 17:10:40
Page 1
Sample ID: L8ALCZ

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: L8ALV
Sample Description: G0J120429-6
Batch ID: 288260
Sample Date/Time: Friday, October 15, 2010 17:12:52
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\L8ALV.025
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 14
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2826673.239	ug/L	2584396.743
┌>	6	Li-1			1452711.325	ug/L	1318246.535
└	9	Be	0.022063	19.660	12.000	ug/L	1.667
┌	31	P	246.641530	3.331	119809.770	ug/L	19295.212
│	44	Ca	2577.820621	1.911	996511.127	ug/L	25557.887
│	55	Mn	467.666744	2.419	8543686.224	ug/L	11826.981
│	75	As	1.368828	14.870	20682.295	ug/L	15979.990
└>	72	Ge-1			2429628.225	ug/L	2240862.708
	106	Pd	3.270799	4.194	665.368	ug/L	14.333
	83	Kr	80.356259	329.650	1108.764	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
┌>	Li-1	6	110.200
└	Be	9	
┌	P	31	
│	Ca	44	
│	Mn	55	
│	As	75	
└>	Ge-1	72	108.424
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: CCV 3
Sample Description:
Batch ID:
Sample Date/Time: Friday, October 15, 2010 17:15:43
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\CCV 3.026
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2806766.543	ug/L	2584396.743
┌>	6	Li-1			1508468.228	ug/L	1318246.535
└	9	Be	89.799834	1.357	42986.701	ug/L	1.667
┌	31	P	5058.121055	0.766	2033349.031	ug/L	19295.212
|	44	Ca	5167.808741	1.879	1954449.509	ug/L	25557.887
|	55	Mn	99.585340	1.223	1815192.636	ug/L	11826.981
|	75	As	98.376078	1.444	256853.334	ug/L	15979.990
└>	72	Ge-1			2410409.921	ug/L	2240862.708
	106	Pd	101.765641	0.659	20270.233	ug/L	14.333
	83	Kr	434.819678	68.111	1241.122	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
┌>	Li-1	6	114.430
└	Be	9	
┌	P	31	
|	Ca	44	
|	Mn	55	
|	As	75	
└>	Ge-1	72	107.566
	Pd	106	
	Kr	83	

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: CCB 3
Sample Description:
Batch ID:
Sample Date/Time: Friday, October 15, 2010 17:18:36
Method File: E:\elandata\Method\0288260.mth
Dataset File: E:\elandata\Dataset\101015A2\CCB 3.027
Tuning File: e:\elandata\Tuning\default.tun
Optimization File: E:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):

Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45 Sc			2844388.875	ug/L	2584396.743
[>	6 Li-1			1518047.620	ug/L	1318246.535
L	9 Be	0.009872	25.758	6.667	ug/L	1.667
[	31 P	-0.194283	462.515	21213.301	ug/L	19295.212
|	44 Ca	-5.728363	6.313	26014.401	ug/L	25557.887
|	55 Mn	-0.123364	5.083	10761.092	ug/L	11826.981
|	75 As	0.639035	14.791	19236.508	ug/L	15979.990
L>	72 Ge-1			2473185.847	ug/L	2240862.708
	106 Pd	-0.011723	0.000	12.000	ug/L	14.333
	83 Kr	-563.373494	30.369	868.393	ug/L	1078.758

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
[>	Li-1	6	115.157
L	Be	9	
[	P	31	
|	Ca	44	
|	Mn	55	
|	As	75	
L>	Ge-1	72	110.368
	Pd	106	
	Kr	83	

TAL West Sac **RUN SUMMARY**

Method: 6020 (SOP: SAC-MT-001) Instrument: M02 Reported: 10/18/10 10:16:01

File ID: **101015A2** **Analyst: ionesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Rinse 2X				2.0	10/15/10 16:08		☐
2	Blank				1.0	10/15/10 16:11		☐
3	Standard1				1.0	10/15/10 16:14		☐
4	ICV				1.0	10/15/10 16:16		☐
5	ICB				1.0	10/15/10 16:19		☐
6	LLSTD1				1.0	10/15/10 16:22		☐
7	LLSTD2				1.0	10/15/10 16:25		☐
8	ICSA				1.0	10/15/10 16:28		☐
9	ICSAB				1.0	10/15/10 16:31		☐
10	Rinse				1.0	10/15/10 16:37		☐
11	CCV 1				1.0	10/15/10 16:44		☐
12	CCB 1				1.0	10/15/10 16:47		☐
13	CCV 2				1.0	10/15/10 16:49		☐
14	CCB 2				1.0	10/15/10 16:52		☐
15	L8JKEB	G0J150000	0288260	2A	1.0	10/15/10 16:55		☐
16	L8JKEC	G0J150000	0288260	2A	1.0	10/15/10 16:58		☐
17	L8JKEL	G0J150000	0288260	2A	1.0	10/15/10 17:01		☐
18	L8ALC	G0J120429-3	0288260	2A	1.0	10/15/10 17:04		☐
19	L8ALCP5	G0J120429	0288260		5.0	10/15/10 17:07		☐
20	L8ALCZ	G0J120429-3	0288260		1.0	10/15/10 17:10		☐
21	L8ALV	G0J120429-6	0288260	2A	1.0	10/15/10 17:12		☐
22	CCV 3				1.0	10/15/10 17:15		☐
23	CCB 3				1.0	10/15/10 17:18		☐
26	CCV 4				1.0	10/15/10 17:21		☐
27	CCB 4				1.0	10/15/10 17:24		☐
28	L7QHXB	G0I300000	0273263	DF	1.0	10/15/10 17:27		☐
29	L7KAV	G0I270456-8	0273263	DF	1.0	10/15/10 17:30		☐
30	L7KA0	G0I270456-10	0273263	DF	1.0	10/15/10 17:32		☐
31	L7KA2	G0I270456-12	0273263	DF	1.0	10/15/10 17:35		☐
32	L7KA5	G0I270456-14	0273263	DF	1.0	10/15/10 17:38		☐
33	CCV 5				1.0	10/15/10 17:41		☐
34	CCB 5				1.0	10/15/10 17:44		☐
35	CCV 6				1.0	10/15/10 17:47		☐
36	CCB 6				1.0	10/15/10 17:50		☐
37	L7QHXB	G0I300000	0273263	DF	1.0	10/15/10 17:53		☐
38	L7KAV	G0I270456-8	0273263	DF	1.0	10/15/10 17:55		☐
39	L7KA0	G0I270456-10	0273263	DF	1.0	10/15/10 17:58		☐
40	L7KA2	G0I270456-12	0273263	DF	1.0	10/15/10 18:01		☐
41	L7KA5	G0I270456-14	0273263	DF	1.0	10/15/10 18:04		☐
42	CCV 7				1.0	10/15/10 18:07		☐
43	CCB 7				1.0	10/15/10 18:10		☐
46	CCV 8				1.0	10/15/10 18:13		☐
47	CCB 8				1.0	10/15/10 18:16		☐
48	L7KAFS	G0I270456-2	0273263	DF	1.0	10/15/10 18:18		☐
49	L7KAFD	G0I270456-2	0273263	DF	1.0	10/15/10 18:21		☐
50	L7KAF	G0I270456-2	0273263	DF	1.0	10/15/10 18:24		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M02 Reported: 10/18/10 10:16:01

File ID: **101015A2** **Analyst: jonesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
51	L7KAFP5	G0I270456	0273263		5.0	10/15/10 18:27		☐
52	L7KAJ	G0I270456-4	0273263	DF	1.0	10/15/10 18:30		☐
53	L7KAM	G0I270456-6	0273263	DF	1.0	10/15/10 18:33		☐
54	CCV 9				1.0	10/15/10 18:36		☐
55	CCB 9				1.0	10/15/10 18:39		☐
56	CCV 10				1.0	10/15/10 18:41		☐
57	CCB 10				1.0	10/15/10 18:44		☐
58	L7KAFS	G0I270456-2	0273263	DF	1.0	10/15/10 18:47		☐
59	L7KAFD	G0I270456-2	0273263	DF	1.0	10/15/10 18:50		☐
60	L7KAF	G0I270456-2	0273263	DF	1.0	10/15/10 18:53		☐
61	L7KAFP5	G0I270456	0273263		5.0	10/15/10 18:56		☐
62	L7KAJ	G0I270456-4	0273263	DF	1.0	10/15/10 18:59		☐
63	L7KAM	G0I270456-6	0273263	DF	1.0	10/15/10 19:02		☐
64	CCV 11				1.0	10/15/10 19:05		☐
65	CCB 11				1.0	10/15/10 19:07		☐

TAL West Sac

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M02 (M02) Reported: 10/18/10 10:16:01

File ID: **101015A2** **Analyst: jonesb**

#	Sample ID	Analyzed Date	Germanium	Lithium-6	Q
1	Rinse 2X	10/15/10 16:08	98.7	98.7	☐
2	Blank	10/15/10 16:11	100.0	100.0	☑
3	Standard1	10/15/10 16:14	100.0	98.1	☑
4	ICV	10/15/10 16:16	101.6	98.8	☑
5	ICB	10/15/10 16:19	100.9	100.0	☑
6	LLSTD1	10/15/10 16:22	100.7	99.7	☑
7	LLSTD2	10/15/10 16:25	100.7	99.8	☑
8	ICSA	10/15/10 16:28	94.9	79.0	☑
9	ICSAB	10/15/10 16:31	97.6	79.0	☑
10	Rinse	10/15/10 16:37	121.1	87.7	☑
11	CCV 1	10/15/10 16:44	119.5	98.5	☑
12	CCB 1	10/15/10 16:47	118.4	99.2	☑
13	CCV 2	10/15/10 16:49	113.9	102.0	☑
14	CCB 2	10/15/10 16:52	115.1	102.2	☑
15	L8JKEB	10/15/10 16:55	113.5	104.2	☑
16	L8JKEC	10/15/10 16:58	111.6	109.8	☑
17	L8JKEL	10/15/10 17:01	109.3	109.4	☑
18	L8ALC	10/15/10 17:04	111.2	110.1	☑
19	L8ALCP5	10/15/10 17:07	111.5	113.8	☐
20	L8ALCZ	10/15/10 17:10	108.5	113.7	☑
21	L8ALV	10/15/10 17:12	108.4	110.2	☑
22	CCV 3	10/15/10 17:15	107.6	114.4	☑
23	CCB 3	10/15/10 17:18	110.4	115.2	☑
26	CCV 4	10/15/10 17:21	97.5	99.1	☑
27	CCB 4	10/15/10 17:24	95.4	94.0	☑
28	L7QHXB	10/15/10 17:27	96.1	102.4	☑
29	L7KAV	10/15/10 17:30	76.6	99.5	☑
30	L7KA0	10/15/10 17:32	77.0	100.6	☑
31	L7KA2	10/15/10 17:35	72.8	92.8	☑
32	L7KA5	10/15/10 17:38	82.4	107.8	☑
33	CCV 5	10/15/10 17:41	88.5	103.5	☑
34	CCB 5	10/15/10 17:44	90.3	102.6	☑
35	CCV 6	10/15/10 17:47	89.3	100.4	☑
36	CCB 6	10/15/10 17:50	90.8	101.7	☑
37	L7QHXB	10/15/10 17:53	88.9	105.5	☑
38	L7KAV	10/15/10 17:55	72.6	94.4	☑
39	L7KA0	10/15/10 17:58	73.8	99.4	☑
40	L7KA2	10/15/10 18:01	70.8	90.6	☑
41	L7KA5	10/15/10 18:04	80.2	107.8	☑
42	CCV 7	10/15/10 18:07	87.2	104.2	☑
43	CCB 7	10/15/10 18:10	89.0	101.4	☑
46	CCV 8	10/15/10 18:13	99.5	100.8	☑
47	CCB 8	10/15/10 18:16	100.7	100.6	☑
48	L7KAFS	10/15/10 18:18	50.3	39.3	☐
49	L7KAFD	10/15/10 18:21	51.3	40.1	☐
50	L7KAF	10/15/10 18:24	53.0	41.2	☐

Method: 6020 (SOP: SAC-MT-001) M02 (M02) Reported: 10/18/10 10:16:01

File ID: **101015A2** **Analyst: jonesb**

#	Sample ID	Analyzed Date	Germanium	Lithium-6	Q
51	L7KAFP5	10/15/10 18:27	86.7	77.4	☐
52	L7KAJ	10/15/10 18:30	54.3	43.5	☐
53	L7KAM	10/15/10 18:33	57.7	47.4	☐
54	CCV 9	10/15/10 18:36	100.8	96.3	☑
55	CCB 9	10/15/10 18:39	101.9	97.8	☑
56	CCV 10	10/15/10 18:41	98.6	92.9	☑
57	CCB 10	10/15/10 18:44	99.4	95.8	☑
58	L7KAFS	10/15/10 18:47	53.9	45.4	☐
59	L7KAFD	10/15/10 18:50	55.6	47.6	☐
60	L7KAF	10/15/10 18:53	56.6	48.0	☐
61	L7KAFP5	10/15/10 18:56	91.6	80.7	☐
62	L7KAJ	10/15/10 18:59	56.5	48.0	☐
63	L7KAM	10/15/10 19:02	58.1	49.9	☐
64	CCV 11	10/15/10 19:05	101.0	93.7	☑
65	CCB 11	10/15/10 19:07	102.6	98.1	☑

Method: 6020 **Instrument: M02** **Batch: 101015A2**

Sample ID	Type	File - Sequence	Analyzed Date	Q
ICV	ICV	101015A2, 4	10/15/2010 16:16:51	☐
ICB	ICB	101015A2, 5	10/15/2010 16:19:43	☐
ICSA	ICSA	101015A2, 8	10/15/2010 16:28:19	☐
ICSAB	ICSAB	101015A2, 9	10/15/2010 16:31:09	☐
CCV 1	CCV	101015A2, 11	10/15/2010 16:44:13	☐
CCB 1	CCB	101015A2, 12	10/15/2010 16:47:06	☐
CCV 2	CCV	101015A2, 13	10/15/2010 16:49:59	☐
CCB 2	CCB	101015A2, 14	10/15/2010 16:52:51	☐
CCV 3	CCV	101015A2, 22	10/15/2010 17:15:43	☐
CCB 3	CCB	101015A2, 23	10/15/2010 17:18:36	☐
CCV 4	CCV	101015A2, 26	10/15/2010 17:21:29	☐
CCB 4	CCB	101015A2, 27	10/15/2010 17:24:21	☐
CCV 5	CCV	101015A2, 33	10/15/2010 17:41:34	☐
CCB 5	CCB	101015A2, 34	10/15/2010 17:44:27	☐
CCV 6	CCV	101015A2, 35	10/15/2010 17:47:20	☐
CCB 6	CCB	101015A2, 36	10/15/2010 17:50:12	☐
CCV 7	CCV	101015A2, 42	10/15/2010 18:07:26	☐
CCB 7	CCB	101015A2, 43	10/15/2010 18:10:18	☐
CCV 8	CCV	101015A2, 46	10/15/2010 18:13:11	☐
CCB 8	CCB	101015A2, 47	10/15/2010 18:16:04	☐
CCV 9	CCV	101015A2, 54	10/15/2010 18:36:14	☐
CCB 9	CCB	101015A2, 55	10/15/2010 18:39:06	☐
CCV 10	CCV	101015A2, 56	10/15/2010 18:41:58	☐
CCB 10	CCB	101015A2, 57	10/15/2010 18:44:51	☐
CCV 11	CCV	101015A2, 64	10/15/2010 19:05:02	☐
CCB 11	CCB	101015A2, 65	10/15/2010 19:07:55	☐

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/18/10 10:16:17

Department: 120 (Metals) Source: MetEdit

Sample: **ICV (ICV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02**
File: 101015A2 # 4
Acquired: 10/15/2010 16:16:51
Calibrated: 10/15/2010 16:11:16

Channel 262
Method 6020_
M02

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	33956	82.148	80.000	103	
7723-14-0	Phosphorus	31	314909	785.95	800.00	98.2	
7439-96-5	Manganese	55	1355284	78.586	80.000	98.2	
7440-38-2	Arsenic	75	202962	81.162	80.000	101	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1302461		☑
7440-56-4	Germanium	72	2276525		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/18/10 10:16:17

Department: 120 (Metals) Source: MetEdit

Sample: **ICB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02**
File: 101015A2 # 5
Acquired: 10/15/2010 16:19:43
Calibrated: 10/15/2010 16:11:16

Channel 262
Method 6020_
M02

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	2	0.00164	1.0	0.078	0.0	
7723-14-0	Phosphorus	31	19866	1.0733	50.0	32.0	0.0	
7439-96-5	Manganese	55	11795	-0.00780	1.0	0.083	0.0	
7440-38-2	Arsenic	75	15450	-0.29363	2.0	0.50	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1318371		☑
7440-56-4	Germanium	72	2260550		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/18/10 10:16:17

Department: 120 (Metals) Source: MetEdit

Sample: **ICSA** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02**
File: 101015A2 # 8
Acquired: 10/15/2010 16:28:19
Calibrated: 10/15/2010 16:11:16

Channel 262
Method 6020_
M02

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	**Beryllium**	**9**	**3**	**0.00612**		*	☑
7723-14-0	**Phosphorus**	**31**	**32191578**	**91670**	**100000**	**91.7**	☐
7439-96-5	**Manganese**	**55**	**109107**	**6.1309**		*	
7440-38-2	**Arsenic**	**75**	**17901**	**1.2740**		*	☑

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	**Lithium-6**	**6**	**1042003**		☑
7440-56-4	**Germanium**	**72**	**2125991**		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/18/10 10:16:17

Department: 120 (Metals) Source: MetEdit

Sample: **ICSAB** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101015A2 # 9 Method 6020_
Acquired: 10/15/2010 16:31:09 M02
Calibrated: 10/15/2010 16:11:16 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	33349	100.97	100.00	101	☑
7723-14-0	Phosphorus	31	33812128	93643	100000	93.6	☑
7439-96-5	Manganese	55	1761015	106.57	100.00	107	☑
7440-38-2	Arsenic	75	253429	107.64	100.00	108	☑

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1040807		☑
7440-56-4	Germanium	72	2186035		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/18/10 10:16:17

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 1 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02**
File: 101015A2 # 11
Acquired: 10/15/2010 16:44:13
Calibrated: 10/15/2010 16:11:16

Channel 262
Method 6020_
M02

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	**Beryllium**	9	41256	100.17	100.00	100	
7723-14-0	**Phosphorus**	31	2167107	4851.4	5000.0	97.0	
7439-96-5	**Manganese**	55	2051048	101.31	100.00	101	
7440-38-2	**Arsenic**	75	287582	99.212	100.00	99.2	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	**Lithium-6**	6	1297982		☑
7440-56-4	**Germanium**	72	2677615		☑

Reviewed by: **Date:**

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/18/10 10:16:17

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 1** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262

File: 101015A2 # 12 Method 6020_

Acquired: 10/15/2010 16:47:06 M02

Calibrated: 10/15/2010 16:11:16 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	**Beryllium**	**9**	**2**	**0.00005**	**1.0**	**0.078**	**0.0**	
7723-14-0	**Phosphorus**	**31**	**23780**	**2.1754**	**50.0**	**32.0**	**0.0**	
7439-96-5	**Manganese**	**55**	**13022**	**-0.04906**	**1.0**	**0.083**	**0.0**	
7440-38-2	**Arsenic**	**75**	**21683**	**1.0302**	**2.0**	**0.50**	**0.0**	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	**Lithium-6**	**6**	**1307377**		☑
7440-56-4	**Germanium**	**72**	**2652632**		☑

Reviewed by: **Date:**

CALIBRATION REPORT

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/18/10 10:16:17

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 2 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02**
File: 101015A2 # 13
Acquired: 10/15/2010 16:49:59
Calibrated: 10/15/2010 16:11:16

Channel 262
Method 6020_
M02

Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	**Beryllium**	9	42355	99.267	100.00	99.3	
7723-14-0	**Phosphorus**	31	2145575	5042.0	5000.0	101	
7439-96-5	**Manganese**	55	1988796	103.09	100.00	103	
7440-38-2	**Arsenic**	75	279836	101.45	100.00	101	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	**Lithium-6**	6	1344469		☑
7440-56-4	**Germanium**	72	2551515		☑

Reviewed by: Date:

BLANK REPORT

Method: 6020 (SOP: SAC-MT-001)   M02   Reported: 10/18/10 10:16:17

Department: 120 (Metals)   Source: MetEdit

Sample: **CCB 2**   Mult: **1.00**   Dilf: **1.00**   Divs: **1.000**

Instrument: **ICPMS M02**   Channel 262
File: 101015A2 # 14   Method 6020_
Acquired: 10/15/2010 16:52:51   M02
Calibrated: 10/15/2010 16:11:16   Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	Beryllium	9	4	0.00537	1.0	0.078	0.0	
7723-14-0	Phosphorus	31	22833	1.4303	50.0	32.0	0.0	
7439-96-5	Manganese	55	12132	-0.07661	1.0	0.083	0.0	
7440-38-2	Arsenic	75	20185	0.68530	2.0	0.50	0.0	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1347792		☑
7440-56-4	Germanium	72	2580026		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/18/10 10:16:17

Department: 120 (Metals) Source: MetEdit

Sample: **CCV 3 (CCV)** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101015A2 # 22 Method 6020_
Acquired: 10/15/2010 17:15:43 M02
Calibrated: 10/15/2010 16:11:16 Units: ug/L

CASN	Analyte Name	M/S	Area	Found	True	%R	Q
7440-41-7	Beryllium	9	42987	89.800	100.00	89.8	
7723-14-0	Phosphorus	31	2033349	5058.1	5000.0	101	
7439-96-5	Manganese	55	1815193	99.585	100.00	99.6	
7440-38-2	Arsenic	75	256853	98.376	100.00	98.4	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1508468		☑
7440-56-4	Germanium	72	2410410		☑

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) **M02** **Reported: 10/18/10 10:16:17**

Department: 120 (Metals) Source: MetEdit

Sample: **CCB 3** Mult: **1.00** Dilf: **1.00** Divs: **1.000**

Instrument: **ICPMS M02** Channel 262
File: 101015A2 # 23 Method 6020_
Acquired: 10/15/2010 17:18:36 M02
Calibrated: 10/15/2010 17:15:43 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	RL	MDL	%RSD	Q
7440-41-7	**Beryllium**	**9**	**7**	**0.00987**	**1.0**	**0.078**	**0.0**	
7723-14-0	**Phosphorus**	**31**	**21213**	**-0.19428**	**50.0**	**32.0**	**0.0**	
7439-96-5	**Manganese**	**55**	**10761**	**-0.12336**	**1.0**	**0.083**	**0.0**	
7440-38-2	**Arsenic**	**75**	**19237**	**0.63904**	**2.0**	**0.50**	**0.0**	

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	**Lithium-6**	**6**	**1518048**		☑
7440-56-4	**Germanium**	**72**	**2473186**		☑

Reviewed by: **Date:**

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/18/10 10:17:09

Department: 120 (Metals) Source: MetEdit

Sample: **L8ALCP5** Serial Dilution: **5.00** Sample Dilution: **1.00**

Instrument: **ICPMS M02**
File: 101015A2 # 19
Acquired: 10/15/2010 17:07:12
Calibrated: 10/15/2010 16:11:16

Channel 262
Method 6020_
M02

Matrix: AIR
Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-41-7	**Beryllium**	**9**	**4**	**0.02207**	**0.01421**	**55.3**		*****	
7723-14-0	**Phosphorus**	**31**	**42586**	**255.43**	**244.82**	**4.33**		*****	
7439-96-5	**Manganese**	**55**	**516514**	**134.14**	**140.94**	**4.83**	**0.14**	**4.8**	☑
7440-38-2	**Arsenic**	**75**	**19349**	**3.0336**	**1.0765**	**182**	**0.41**	**NC**	☑

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	**Lithium-6**	**6**	**1500383**		☑
7440-56-4	**Germanium**	**72**	**2498448**		☐

*** Analyte not requested for this batch, no MDL**

NC : Serial dilution concentration < 100 X MDL

E : Difference greater than Limit (10%)

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/18/10 10:17:17

Department: 120 (Metals) Source: MetEdit

Sample: **L8ALCZ** Spike Dilution: **1.00** Sample Dilution: **1.00**

Instrument: **ICPMS M02** Channel 262
File: 101015A2 # 20 Method 6020_
Acquired: 10/15/2010 17:10:02 M02 Matrix: AIR
Calibrated: 10/15/2010 16:11:16 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-41-7	Beryllium	9	86307	181.50	0.01421	90.7	200		☑
7723-14-0	Phosphorus	31	511146	1221.6	244.82	97.7	1000		☑
7439-96-5	Manganese	55	6299314	344.38	140.94	102	200		☑
7440-38-2	Arsenic	75	510819	200.84	1.0765	99.9	200		☑

CASN	ISTD Name	M/S	Area	Amount	Q
LITHIUM6	Lithium-6	6	1498436		☑
7440-56-4	Germanium	72	2430862		☑

Reviewed by: Date:

IDB Reports TestAmerica, Inc. Version: 6.02.068

View Page 1 of 1

Sample Preparation Log

TestAmerica - West Sacramento
Metals - Air Toxics - Preparation Log

Date: 15-Oct-10 **Analyst:** jz **Matrix:** AIR

Fraction: Filter **SOP: WS-IP-0010** **Method:** ICPMS

LOT ID		**Workorder**		**Volume Received**	**Volume Removed**	**Initial Prep Volume**	**Final Prep Volume**	**Batch**	**Prep Factor**
G0J150000	260	L8JKEB	2A	NA	NA	NA	100 mL	288260	1.2
G0J150000	260	L8JKEC	2A	NA	NA	NA	100 mL	288260	1.2
G0J150000	260	L8JKEL	2A	NA	NA	NA	100 mL	288260	1.2
G0J120429	3	L8ALC	2A	9 inches	0.75 inches	0.75 inches	100 mL	288260	1.2
G0J120429	6	L8ALV	2A	9 inches	0.75 inches	0.75 inches	100 mL	288260	1.2

Shares QC with batch 0288259 (MB, LCS, LCSD)

For the cassette filter digest the whole filter is used.
For 1" filter: factor = 9 (9/1).
For 0.75" filter factor = 12 (9/0.75).

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Metals Spiking Documentation Form

Lot #(s): G0J090430 G0J120429

Batch Number:	0288260 0288259	EPA Analytical Method ID:	6020	Spiked Date:	10/15/10
MS Sample(s):	N/A	EPA Prep Method ID:	WS-IP-0010	Hot Plate Microwave ID:	Met III
Analyst Initial/Date:	JZ 10/15/10	Witness Initial/Date:	10/15/10	Hot Plate Temp	Initial: 95°C Final: 95°C
Correct Folder ID Witness:	N/A	Digestion Cup Lot #	A9092316 4	Thermometer ID:	AT 09
		Filter Paper Lot #	390427	Fin Vol Cup Lot	100506

Check If Used	Bottle Name	Elements	Stock Concentration (mg/L)	Tracking Number	LCS/LCSD Volume Spiked	MS/SD Volume Spiked	Expiration Date
	ICP Part 1 5% HNO_3	Ca, Mg Al, As, Ba, Se, Sn, Tl Fe,Mo,Ti Sb,Co,Pb,Mn,Ni,V,Zn Cu Cr ,Be,Cd Ag	5,000 200 100 50 25 20 5 5.0				
	ICP Part 2 2% $HN0_3$	K,Na P,S B,Li,Sr	5,000 1,000 100				
	Si H20/Tr HF	Si	1,000			JZ	10/15/10
X	TACA-1 5% $HN0_3$	Al,K,Mg,Ca,Na,Fe,P,B As,Be,Cd,Cr,Co,Cu,Pb, Mn,Ni,Se,U,V,Zn,Ba,Li Sr Ag,Tl	500 100 25	3189-6-5	200µl	N/A	8/31/11
X	TACA-2 5% $HN0_3$	Mo, Sb, Sn, Ti	100	3189-6-6	200µl	N/A	8/31/11
	Misc. Elements					JZ	10/15/10

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
	70% HNO_3	Mallinckrodt			30% H_2O_2	Mallinckrodt	
	37% HCl	Mallinckrodt			49% HF	Fisher	
X	3M HNO_3	In-House	4028-24-2		1:1 HCl	In-House	JZ 10/15/10

ICP matrix spike and LCS: For final volumes of 100ml, add 1mL from bottles ICP Part 1, ICP Part 2. Add 1ml of Silica (Si) when requested.
ICPMS matrix spike and LCS: For final volumes of 100ml, add 0.2 mL each of TACA-1 and TACA-2.
Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.

Q:\FORMS\QA-400 Metals Spiking corr.doc *QA-400 ERS6/3/2010*

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THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento

Preparation Data Review Checklist

Prep Batch(es) 0288259 0288260 **Test:** 6020

Prep Date: 10/15/10 **Holding Times:** 4/5/11 4/8/11 **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**	NA
2. Balance upload or raw data for weights is included	**NA**	NA
3. Weights and volumes have been transcribed correctly to LIMS.	**NA**	✓
4. Weights are not targeted to meet exact weights.	**NA**	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**	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**	NA
2. QuantIMs entry correct, including dates and times.	**NA**	✓
3. Are all fields completed?	**NA**	✓

Spike witness: ff Date: 10/15/10

2nd Level Reviewer: SH Date: 10/18/10

Comments:

AIR, TSP

Raw Data Package

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Air Toxics Laboratory

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: G0J120429 Batch #: 0291319

ANALYSIS: (circle) [✓ TSP/PM10] or METHOD 5

DATE: 10/18/10 **ANALYST:**

LEVEL 1 ANALYSIS REVIEW	YES	NO	NA
1. Samples are in good condition.	✓		
2. Sample filter number matches the folder or petri ID number.	✓		
3. Desiccator temperature and % humidity criteria in control.	✓		
4. Balance calibration criteria met.	✓		
5. Beginning and ending calibration sample bracket weights are in calibration.	✓		
6. Samples reached stable weight.	✓		
7. Samples exceeded 5 consecutive final weighings.			✓
LEVEL 1 DATA REVIEW			
1. Benchsheet is complete.	✓		
2. QAS or QAPP consulted and followed for client specifics.	✓		
3. Data entered in properly.	✓		
4. Copy of spreadsheet or logbook raw data entry attached to data package.			✓
5. Analyst observations, HTV's, Anomalies properly documented and attached to data package.			✓

Completed By & Date: 10/18/10

LEVEL 2 REVIEW:	YES	NO	NA
1. Level 1 checklist complete and verified.	✓		
2. Deviations, Anomalies, Holding times checked and approved.			✓
3. Reanalysis documented and chemist notified.	✓		
4. Client specific criteria met.	✓		
5. Data entry checked and released in Quantims.	✓		
6. Indication on benchsheet or spreadsheet on review and released (dated & signed).			

Completed By & Date: MAF 10/18/10

Comments:

Q:\FORMS\Checklists\QA-571 TSP Review.doc *QA-571 ERS 12/31/2007*

RQC050 TestAmerica Laboratories, Inc. Run Date: 10/18/10
WET CHEM BATCHSHEET Time: 12:31:00

TestAmerica West Sacramen

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: AO Particulates in Air, Suspended "TSP HiVol" (APP B)
QC BATCH #: **0291319** INITIALS: DATA ENTRY:
PREP DATE: 10/14/10 15:02 PREP INITIALS
COMP DATE: 10/15/10 9:22 ANAL DATE 10/18/10
USER: VALMORES

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
L8ALC-1-AA	G-0J120429-003	XX S 88 AO 3W	M	10/15/10	UW-10082010B
L8ALV-1-AA	G-0J120429-006	XX S 88 AO 3W	M	|	DW-10082010B

Control Limits

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch **0291319**

Date 10/18/2010
Time 11:34:06

Method Code:**AO Particulates in Air, Suspended "TSP HiVol" (APP B)**
Analyst:**Steve Valmores**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
L8ALC-1-AA	0.0285	g	0.0005	10/14-10/15/10	.00	N		0.028	0.00050	1.00
L8ALV-1-AA	0.0341	g	0.0005	10/14-10/15/10	.00	N		0.034	0.00050	1.00

Notes:

PRODUCTION TOTALS

	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
TEST	0	0	0	0	0	0	.0

SOP# : Sac-IP-0006

GRAVIMETRIC BALANCE: QA-45

TestAmerica

WEST SACRAMENTO

AIR TOXICS GRAVIMETRIC ANALYSES

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)
	5 g wt	5.0002 082310skv0901	5.0000 082310skv1501	[redacted]	4.9998 101510skv0921					-0.0002
	tron082310-16	4.4238 082310skv0901	4.4235 082310skv1501							NC
	tron082310-17	4.4204 082310skv0902	4.4204 082310skv1502							NC
	tron082310-18	4.4153 082310skv0902	4.4148 082310skv1503							NC
	tron082310-19	4.4321 082310skv0903	4.4316 082310skv1503							NC
	tron082310-20	4.4188 082310skv0903	4.4192 082310skv1504							NC
	tron082310-21	4.4072 082310skv0904	4.4071 082310skv1504							NC
	tron082310-22	4.4061 082310skv0904	4.4061 082310skv1505							NC
	tron082310-23	4.4011 082310skv0905	4.4012 082310skv1505							NC
	tron082310-24	4.4172 082310skv0905	4.4174 082310skv1505							NC
L8ALC 101310skv1035	tron082310-25	4.4146 082310skv0906	4.4147 082310skv1506	4.4433 101410skv1504	4.4432 101510skv0921					0.0285
	5 g wt	5.0005 082310skv0906	5.0001 082310skv1506	4.9995 101310skv1341	4.9999 101410skv0936					-0.0002
[redacted]	tron082310-26	4.4067 082310skv0908	4.4062 082310skv1507	4.4401 101410skv1505	4.4403 101510skv0922					0.0341
L78WE 101210jz1300	tron082310-27	4.4110 082310skv0908	4.4109 082310skv1507	4.4451 101310skv1342	4.4456 101410skv0936					0.0347
L78WF 101210jz1300	tron082310-28	4.4051 082310skv0909	4.4047 082310skv1508	4.4368 101310skv1342	4.4371 101410skv0936					0.0324
	tron082310-29	4.4033 082310skv0909	4.4028 082310skv1508							NC
L78WC 101210jz1300	tron082310-30	4.4054 082310skv0910	4.4049 082310skv1508	4.4303 101310skv1343	4.4304 101410skv0937					0.0255
	5 g wt	5.0001 082310skv0910	5.0000 082310skv1509	4.9996 101310skv1344	4.9998 101410skv0937					-0.0002

rev 020303
N:/atg/air/airgrav3k.xls

Page 1/2 Batch#: 0291319

Reviewed by: MAR 10/8/10

SOP# : Sac-IP-0006

GRAVIMETRIC BALANCE: QA-45

TestAmerica

WEST SACRAMENTO

AIR TOXICS GRAVIMETRIC ANALYSES

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)
	5 g wt	5.0001 082310skv0910	5.0000 082310skv1509	5.0000 101410skv1506	[redacted] 101510skv0922					-0.0001

rev 020303
N:/atg/air/airgrav3k.xls

Page 2/2 Batch#: 0291319

Reviewed by: MAT 10/18/10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Air Toxics
Desiccator Humidity/Temperature Logbook

Desiccator #		1			2			3			4			5			6			7			Amb	
Date	Init	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH
10/6/10	ECf	71	33	—	71	34	–	72	31	—	71	33	—	71	29	—	73	34	—	73	28	—	73	40
10/7/10	ECf	70	32	—	71	34	—	72	32	—	71	33	—	71	29	—	73	34	—	72	29	—	73	42
10/8/10	ECf	70	33	—	70	34	—	72	32	—	70	33	—	71	31	—	72	35	—	72	29	—	73	39
10/9/10	SV	70	33	–	70	33	-	71	33	—	70	33	-	70	31	—	72	34	-	72	29	-	73	40
10/10/10	SV	73	31	-	74	36	—	75	33		74	33	-	74	33	-	75	35	-	75	30	-	77	41
10/11/10	ECf	72	33	—	72	37	—	73	34	—	72	35	—	72	34	—	73	35	—	73	30	—	73	43
10/12/10	ECf	71	32	—	72	35	—	73	32	–	71	33	—	72	33	—	73	34	—	73	28	–	73	27
10/13/10	ECf	71	33	—	71	36	—	72	32	—	71	33	-	71	33	-	73	34	—	73	29	—	73	32
10/14/10	ECf	72	32	—	72	38	—	73	33	–	72	34	-	72	36	—	73	34	—	73	30	—	73	42
10/15/10	ECf	71	33	—	72	38	–	73	33	—	71	34	—	72	36	—	73	34	—	73	30	—	73	42
10/16/10	SV	72	33	-	72	38	①	73	33	-	72	34	-	72	33	.	73	34	—	73	30	—	75	34
10/18/10	ECf	69	33	—	69	28	—	70	34	—	69	34	-	70	35	—	72	34	-	72	30	—	72	46

Abbreviations:	T = Temperature (°F)	RH = Relative Humidity (%)	FN = Foot Note
Limits:	RH 33± 5%	Temperature 22± 5 °C or 71.6± 9°F	
Foot Notes:	1 = Desiccant Changed	2 = Desiccator < 28% Humidity	

QA-374 RE 12/10/09 LOGBOOK # 3850 PAGE 17

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Balance Calibration Check Log

WEIGHT #1				WEIGHT #2				DATE	INIT.	WEIGHT ID	P/F *1
Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits*2		Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits*2					
		Lower (g)	Upper (g)			Lower (g)	Upper (g)				
0.2g	0.2000	0.1998	0.2002	10.0g	10.0001	9.9900	10.0100	10/5/10	SV	QA-11	P
0.2	0.2000	0.1998	0.2002	10.0	10.0004	9.9900	10.0100	10/6/10	SV	QA-11	P
0.2	0.2001	0.1998	0.2002	10.0	10.0001	9.9900	10.0100	10/7/10	SV	QA-11	P
0.2	0.2001	0.1998	0.2002	10.0	10.0003	9.9900	10.0100	10/8/10	SV	QA-11	P
0.2	0.2000	0.1998	0.2002	10.0	10.0002	9.9900	10.0100	10/10/10	SV	QA-11	P
0.2	0.2000	0.1998	0.2002	10.0	10.0004	9.9900	10.0100	10/11/10	SV	QA-11	P
0.2	0.2000	0.1998	0.2002	10.0	10.0003	9.9900	10.0100	10/12/10	SV	QA-11	P
0.2	0.2000	0.1998	0.2002	10.0	10.0004	9.9900	10.0100	10/13/10	SV	QA-11	P
0.2	0.2000	0.1998	0.2002	10.0	10.0005	9.9900	10.0100	10/14/10	SV	QA-11	P
0.2	0.2000	0.1998	0.2002	10.0	10.0003	9.9900	10.0100	10/15/10	SV	QA-11	P
0.2	0.2001	0.1998	0.2002	10.0	10.0003	9.9900	10.0100	10/16/10	SV	QA-11	P
0.2	0.2000	0.1998	0.2002	10.0	10.0003	9.9900	10.0100	10/18/10	SV	QA-11	P

1 P= Pass, F= Fail. The observed weight must be with in the listed tolerances in order to pass. If calibration check values fall outside acceptance limits, the balance is considered to be out of calibration.

a) Do not move or use the balance
b) Attach a sign instructing others not to use the balance (see front of logbook).
c) Notify the QA department.

*2 Balance Tolerances (grams):

Denomination	Range	Denomination	Range
0.2000	0.1995 – 0.2005	10	9.9000 – 10.100
0.5000	0.4995 – 0.5005	20	19.8000 – 20.200
1	0.9900 – 1.0100	50	49.5000 – 50.500
2	1.9800 – 2.0200	100	99.0000 – 101.000
5	4.9500 – 5.0500		

Calibration range is (+/-) 1% for top loading balances. The above tolerances have been rounded to meet balance read out capability.

*3 When performing Method 1664A, the following Class 1 weights and tolerances must be used (in grams).

Denomination	Range
0.0020	0.0018 – 0.0022
1	0.9950 – 1.0050

Calibration range is (±) 10% for 2 mg weight and (±) 0.5% for 1 g weight. The above tolerances have been modified to meet balance read out capability.

Balance # ID QA-045

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Balance Calibration Check Log

WEIGHT #1				WEIGHT #2				DATE	INIT.	WEIGHT ID	P/F *1
Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits*2		Working WT Denomination (g)	OBSERVED WEIGHT (g)	Acceptance limits*2					
		Lower (g)	Upper (g)			Lower (g)	Upper (g)				
0.2g	0.2000	0.1998	0.2002	10.0g	10.0003	9.9900	10.0100	7/29/10	SV	QA-11	P
0.2g	0.2001	0.1998	0.2002	10.0g	10.0001	9.9900	10.0100	7/30/10	SV	QA-11	P
0.2g	0.2001	0.1998	0.2002	10.0g	10.0006	9.9900	10.0100	8/1/10	SV	QA-11	P
0.2g	0.2001	0.1998	0.2002	10.0g	10.0003	9.9900	10.0100	8/8/10	SV	QA-11	P
0.2g	0.2000	0.1998	0.2002	10.0g	10.0008	9.9900	10.0100	8/9/10	SV	QA-11	P
0.2g	0.1999	0.1998	0.2002	10.0g	9.9997	9.9900	10.0100	8/12/10	SV	QA-11	P
0.2g	0.2000	0.1998	0.2002	10.0g	10.0008	9.9900	10.0100	8/16/10	SV	QA-11	P
0.2g	0.2000	0.1998	0.2002	10.0g	10.0003	9.9900	10.0100	8/17/10	SV	QA-11	P
0.2g	0.2000	0.1998	0.2002	10.0g	10.0003	9.9900	10.0100	8/23/10	SV	QA-11	P
0.2g	0.2000	0.1998	0.2002	10.0g	10.0003	9.9900	10.0100	8/24/10	SV	QA-11	P
0.2g	0.2001	0.1998	0.2002	10.0g	10.0004	9.9900	10.0100	8/25/10	SV	QA-11	P
0.2g	0.2001	0.1998	0.2002	10.0g	10.0011	9.9900	10.0100	8/27/10	SV	QA-11	P
0.2g	0.2001	0.1998	0.2002	10.0g	10.0006	9.9900	10.0100	8/31/10	SV	QA-11	P
0.2g	0.2000	0.1998	0.2002	10.0g	10.0001	9.9900	10.0100	9/3/10	SV	QA-11	P

1 P= Pass, F= Fail. The observed weight must be with in the listed tolerances in order to pass. If calibration check values fall outside acceptance limits, the balance is considered to be out of calibration.

a) Do not move or use the balance

b) Attach a sign instructing others not to use the balance (see front of logbook).

c) Notify the QA department.

*2 Balance Tolerances (grams):

Denomination	Range	Denomination	Range
0.2000	0.1995 – 0.2005	10	9.9000 – 10.100
0.5000	0.4995 – 0.5005	20	19.8000 – 20.200
1	0.9900 – 1.0100	50	49.5000 – 50.500
2	1.9800 – 2.0200	100	99.0000 – 101.000
5	4.9500 – 5.0500		

Calibration range is (+/-) 1% for top loading balances. The above tolerances have been rounded to meet balance read out capability.

*3 When performing Method 1664A, the following Class 1 weights and tolerances must be used (in grams).

Denomination	Range
0.0020	0.0018 – 0.0022
1	0.9950 – 1.0050
Calibration range is (±) 10% for 2 mg weight and (±) 0.5% for 1 g weight. The above tolerances have been modified to meet balance read out capability.	

QA-140T4

5/7/2008 ERS

Balance # ID QA-045

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica West Sacramento
Air Toxics
Desiccator Humidity/Temperature Logbook

Desiccator #		1			2			3			4			5			6			7			Amb	
Date	Init	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH	FN	T	RH
8/13/10	ECJ	70	32	—	71	28	—	72	35	—	70	28	—	71	28	—	72	16	②	72	11	②	72	46
8/14/10	S✓	71	32	-	72	28	-	73	35	-	72	28	-	72	27	②	73	18	②	73	11	②	75	46
8/16/10	S✓	70	33	-	70	28	-	71	37	-	70	28		71	28	-	72	22	②	72	11	②	72	47
8/17/10	S✓	70	33	-	70	28	-	71	38	-	70	28	-	70	28	-	72	22	②	72	11	②	72	45
8/18/10	ECJ	70	33	—	70	28	—	71	39	—	70	28	—	70	29	—	72	23	②	72	14	②	72	47
8/19/10	ECJ	70	33	—	70	28	—	71	40	②	70	28	—	70	29	—	72	23	②	72	14	②	72	48
8/20/10	ECJ	71	33	—	71	30	—	72	26	②	71	28	—	71	30	—	72	24	②	72	16	②	73	46
8/23/10	S✓	70	33		71	33	-	72	27	②	71	28	-	71	33	-	72	21	②	72	19	②	73	39
8/24/10	ECJ	72	33	—	72	34	—	73	27	②	72	28	—	72	35	—	73	25	②	73	21	②	73	49
8/25/10	ECJ	73	32	—	73	35	—	75	27	②	73	30	—	73	36	—	73	25	②	73	21	②	75	43
8/26/10	ECJ	73	32	—	73	34	—	74	27	②	73	30	—	73	35	—	73	26	②	73	21	②	75	47
8/27/10	ECJ	71	33	—	72	35	—	73	28	—	72	32	—	72	35	-	72	27	②	72	22	②	73	47
8/30/10	ECJ	70	33	—	70	35	—	71	31	—	69	33	—	70	36	—	72	29	—	72	22	②	72	41
8/31/10	ECJ	70	33	—	70	36	—	71	31	—	70	34	—	70	38	—	72	30	—	72	~~3~~ 22 ECJ 8/31/10	②	72	51
9/1/10	ECJ	71	33	—	71	37	—	72	32	—	71	34	—	71	39		73	31	—	72	23	②	73	43

Abbreviations:	T = Temperature (°F)	RH = Relative Humidity (%)	FN = Foot Note
Limits:	RH 33± 5%	Temperature 22± 5 °C or 71.6± 9°F	
Foot Notes:	1 = Desiccant Changed	2 = Desiccator < 28% Humidity	

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